



# 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-1801137  
Date Issued: 04/11/2018  
Start Date: 04/11/2018  
Exp. Date: 07/01/2018  
Project No: PWP730079  
Quad: SS

UE/CR/PM NO:A018ND2

## ENCROACHMENT PERMIT

To: AT & T - FRESNO  
5555 E. OLIVE RM#300III  
FRESNO, CA 93727

### Encroachment Type:

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

S/S LOOMIS RD 200' W/O ST RT 99 FRONTAGE RD

In compliance with your request of **04/11/2018**, 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

FORMS: SS/WW

Est. Permit Fee: \$692.00

KRIS BALAJI, Director  
Department of Public Works

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

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, 3339, 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 03/05/18

To: San Joaquin County  
Department of Public Works

AT&T / VCC PERMITS DESK  
(Applicant Name)

5555 E. Olive Ave  
(Mailing Address)

Fresno, CA 93727  
(City, State, Zip Code)

(559) 454-4900 g26977@att.com  
(Area Code - Telephone Number)

## OFFICE USE ONLY

JOB # 730079 REF # \_\_\_\_\_

APN \_\_\_\_\_ CR # \_\_\_\_\_

EXP. DATE \_\_\_\_\_

VALID 4-11-18 TO 7-1-18

STREET Loomis Rd

AREA Stockton QUAD SS

TYPE Bar P

FORMS SSWU R29

NOTES \_\_\_\_\_

DRIVEWAYS:

\*

\*

\*

Sketch (Detailed plans may be submitted)

PLEASE SEE ATTACHED PERMIT DRAWINGS FOR AT&T JOB# A018ND2.

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the SOUTH side of LOOMIS RD approximately 200 feet mile WEST of S 99 FRONTAGE RD, by performing the following work (description of work):

New pole

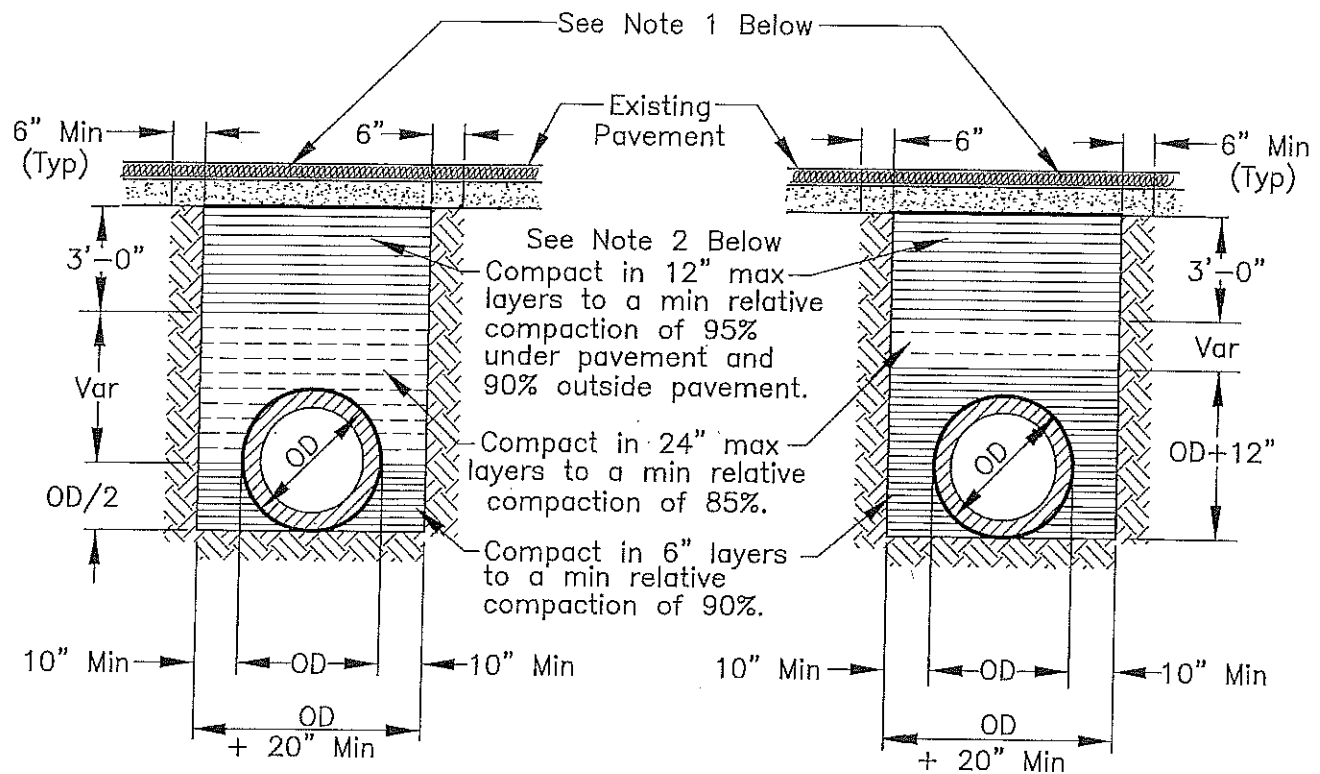
PLEASE SEE ATTACHED DOCUMENT FOR JOB LOCATION & DESCRIPTION.

Work will commence on or about 03/23/18 END=06/22/18 for approximately 5 DAYS 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.

Bruce E. Schmitt Engineering  
Administrator  
Signature of Applicant - Title

3/8/2018  
Date

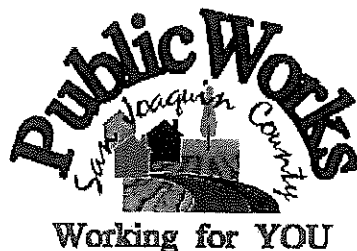


**RIGID CONDUIT**

**FLEXIBLE CONDUIT**

**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. Hall*

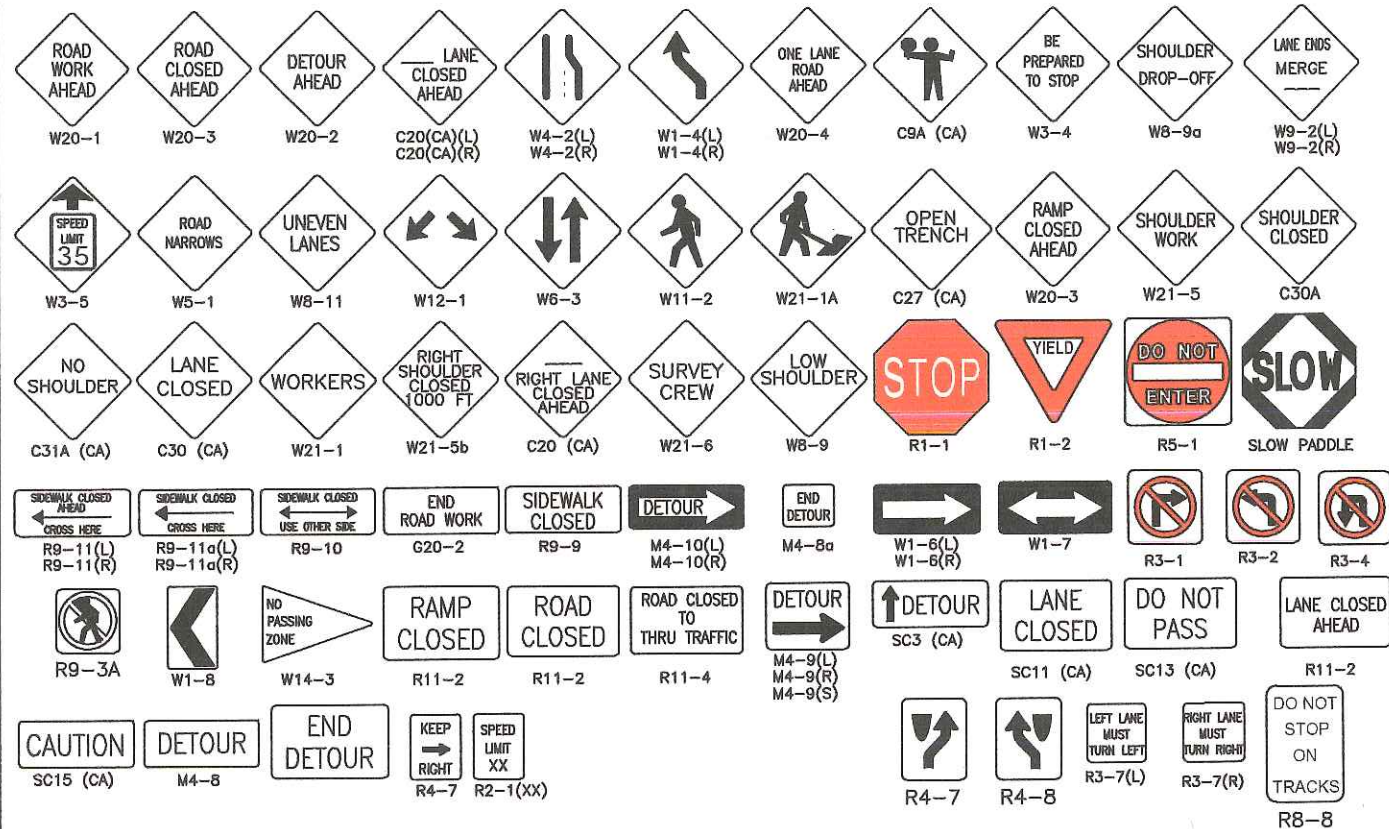
No.	Revision	Description	Date

Std. Dwg. No.

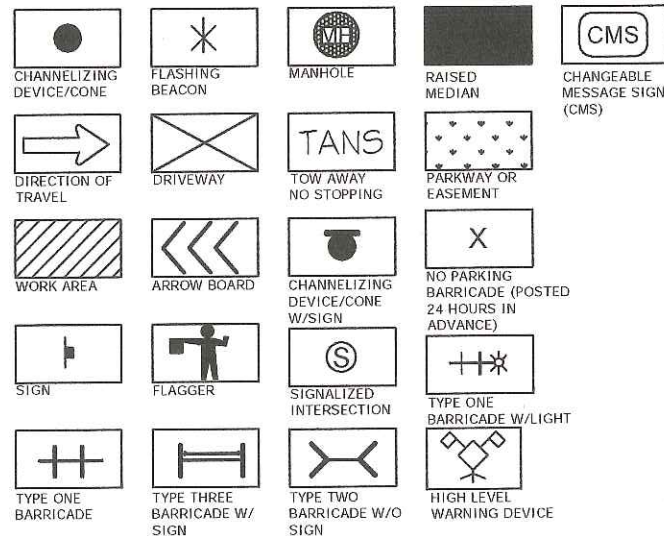
**R-29**



SIGN LEGEND



LEGEND



REQUIREMENTS:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PROMPTLY RESTORING THE ROAD BACK TO SATISFACTORY CONDITION WHICH INCLUDES, BUT IS NOT LIMITED TO, PAVING, STRIPPING, MARKINGS, SIGNING, AND LOOP DETECTION. ALL PLANS SHALL BE IN ACCORDANCE WITH 2014 CA. MUTCD.
- 2. THE AGENCY RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE CHANGES AS FIELD CONDITIONS WARRANT.
- 3. TRENCHES SHALL BE BACK-FILLED OR STEEL-PLATED DURING NON-WORK HOURS. STEEL PLATES SHALL HAVE AN ASPHALT RAMP ON ALL EDGES, SECURELY SUPPORTED SO THEY WON'T ROCK AND A SIGN POSTED NEAR THE PLATES IDENTIFYING THE CONTRACTORS NAME AND 24 HOUR EMERGENCY TELEPHONE NUMBER. ALL DIRT, DUST, AND DEBRIS SHALL BE REMOVED FROM THE STREET AT THE END OF EACH DAY AND AT THE END OF THE JOB. THE STREET SHALL BE KEPT IN A DRIVABLE CONDITION AT ALL TIMES.
- 4. ANY WORK THAT CREATES AN UNDUE SAFETY RISK OR THAT CREATES SEVERE CONGESTION WILL BE SHUT DOWN BY THE AGENCY.
- 5. A COPY OF ALL TRAFFIC REQUIREMENTS AND TRAFFIC CONTROL PLANS ISSUED BY THE AGENCY MUST BE KEPT ON THE JOB SITE.
- 6. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN OFFICIAL PERMIT. CONTACT THE AGENCY FOR INFORMATION ON OBTAINING A PERMIT.
- 7. ALL TRAVEL LANES WILL TYPICALLY BE A MINIMUM OF 12 FEET WIDE, 14 FEET IF ADJACENT TO BIKE LANES, UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE AGENCY.
- 8. FLASHING ARROW BOARDS AS REQUIRED BY THE AGENCY.
- 9. WARNING (W) SERIES SIGNS USED IN WORK ZONES SHALL BE BLACK ON AN ORANGE BACKGROUND.
- 10. CONES AND PYLONS SHALL HAVE YELLOW REFLECTORIZED SLEEVES WHEN PLACED ALONG THE CENTERLINE AND WHITE REFLECTORIZED SLEEVES ALONG THE OUTSIDE SHOULDER.
- 11. IF PARKING IS ALLOWED IN THE ADVANCE WORKING AREA, ADVANCE WARNING SIGNS SHALL BE MOUNTED ON HIGH LEVEL DEVICES.
- 12. THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS SEVENTY-TWO (72) HOURS IN ADVANCE, WITH DAY OF WEEK, DATE, AND WORK HOURS NOTED, AND SHALL BAG PARKING METERS (WHERE APPLICABLE).
- 13. OPEN CUT WORK SHALL BE DONE IN \_\_ PHASES.
- 14. WORKERS SHALL WEAR HARD HATS AND ORANGE VESTS AT ALL TIMES.
- 15. COUNTY TRANSIT DISTRICT SHALL BE NOTIFIED (5) WORKING DAYS PRIOR TO ANY WORK THAT AFFECTS BUS STOPS.
- 16. CONSTRUCTION SIGNS SHALL NOT OBSTRUCT SIGHT VISIBILITY AT DRIVEWAYS.
- 17. CONTRACTOR SHALL NOTIFY ALL LOCAL BUSINESS OWNERS/OCCUPANTS 72 HOURS IN ADVANCE PRIOR TO ANY CONSTRUCTION ADJACENT TO BUSINESSES.

JOB LOCATION		WORK HOURS	
LOOMIS RD & MUNFORD AVE			
BEGIN CROSS STREET		FROM:	TO:
CARPENTER RD.		E. MARIPOSA RD.	
PERMIT NO.			
WORK TO BE DONE			
AERIAL POLE ACCESS			
START DATE	END DATE	POSTED SPEED LIMIT	APPROACH SPEED
		25 MPH	25 MPH
		TAPER LENGTH	SPACING OF CONES
		45 FT.	25 FT.
		SIGN SPACING	
		100 FT.	
PERMIT WORK EXTENSIONS MUST BE OBTAINED BY THE END OF PERMIT DATE			

GENERAL NOTES:
FOR HOURS OF DARKNESS, CHANGE CONES TO VERTICAL BARRICADES WITH STEADY BURN LIGHTS.
NOTHING CONTAINED ON THIS DRAWING SHALL PREVENT LOCAL JURISDICTIONS FROM MODIFYING, CHANGING, OR ADOPTING NEW SPECIFICATIONS DEEMED NECESSARY.
CRITERIA FOR POSITION, LOCATION, AND USE OF TRAFFIC CONTROL DEVICES IS SOLELY FOR THE PURPOSE OF GUIDANCE TO ASSIST IN THE SET UP OF THE TRAFFIC CONTROL PLANS.

TABLE 6C-1 2014 CALIFORNIA MUTCD - SUGGESTED MINIMUM ADVANCE WARNING SIGN SPACING

ROAD TYPE	A	B	C
URBAN (LOW SPEED)*25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (HIGH SPEED)*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
EXPRESSWAY/FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

\* THE COLUMN HEADING A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6H-1 THROUGH 6H-4B. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO 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 SIGN. (THE THIRD SIGN IS THE FIRST ONE IN THE THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TTC ZONE.)

TABLE 6C-2 2014 CALIFORNIA MUTCD - STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

\* POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED

TABLE 6C-3 2014 CALIFORNIA MUTCD - TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONE

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5 L
SHOULDER TAPER	AT LEAST 0.5 L
ONE LANE, TWO-WAY TRAFFIC TAPER	30 W (110FT) MAXIMUM
DOWNSTREAM TAPER	30 M (100FT) PER LANE

WHERE: L = TAPER LENGTH IN METERS (FEET)  
W = WIDTH OF OFFSET IN METERS (FEET)  
S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH (MPH)

COUNTY OF: SAN JOAQUIN

TRAFFIC CONTROL PLAN

PLANS ACCEPTED BY:		PLANS PREPARED BY:	
NAME _____		NAME GABRIEL SANTANA	
DATE _____		PHONE (949) 250-0004	
R.C.E. _____		DATE 03-01-18	
EXP. DATE _____		REVISION DATE N/A	

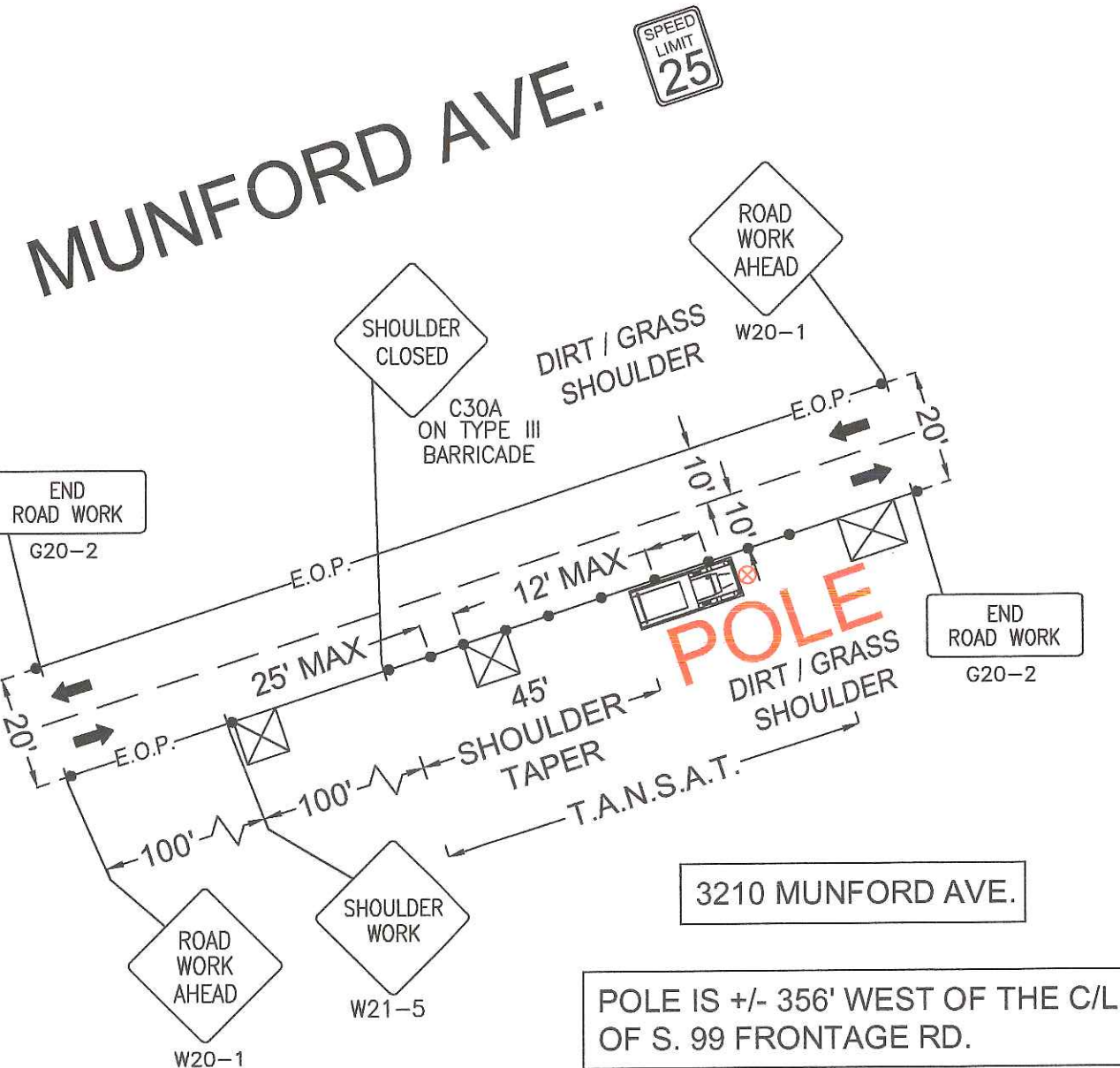
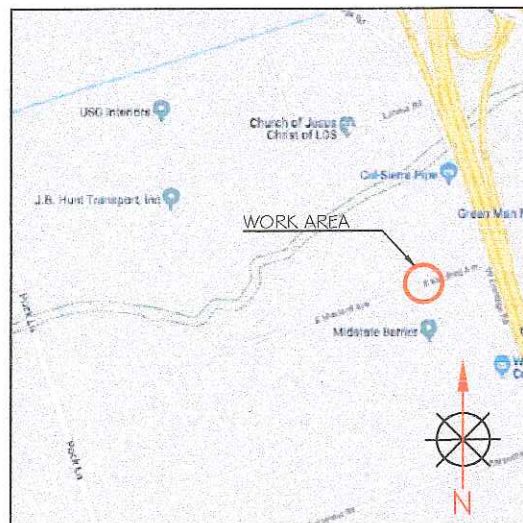




**MUNFORD AVE. & S. 99 FRONTAGE RD.**  
**POLE ACCESS (AERIAL)**  
**WORK AREA 1 OF 2**  
**PHASE 1 OF 1**

CONTACT PROPERTY OWNER(S) 72 HOURS PRIOR TO START OF WORK.

VICINITY MAP



	ISSUE	DATE
	1	03-01-18

**LEGEND:**

- \* P.F.B. = PORTABLE FLASHING BEACON
- = TYPE III BARRICADES W/SIGN (5'H x 4'W)
- = TYPE II BARRICADE W/O SIGN (3'H x 2'W)
- = 28" (11cm) TRAFFIC CONES W/ 13" (5cm) REFLECTIVE SLEEVE FOR DAY/NIGHT USE OR DELINEATORS IF DAY USE ONLY
- = TRAFFIC CONE WITH CLIP ON SIGN
- = PROPOSED SIGN AND POST
- = SIGNALIZED INTERSECTION
- = FLASHING ARROWBOARD
- = HIGH LEVEL WARNING DEVICE WITH SIGN (FLAGTREE)
- = FLAGGER
- TANS = TOW AWAY NO STOPPING \_\_\_\_\_ TO \_\_\_\_\_ (SHOW HOURS)
- TANSAT = TOW AWAY NO STOPPING ANY TIME
- = WORK ZONE LIMITS
- = DIRECTION OF TRAFFIC



MAINTAIN DRIVEWAY ACCESS AT ALL TIMES

PHASE 1 OF 1		
TYPE OF CONSTRUCTION		
AERIAL POLE ACCESS		
JOB NUMBER <b>A018ND2</b>		
PAGE: 2	OF 3	SCALE: NONE



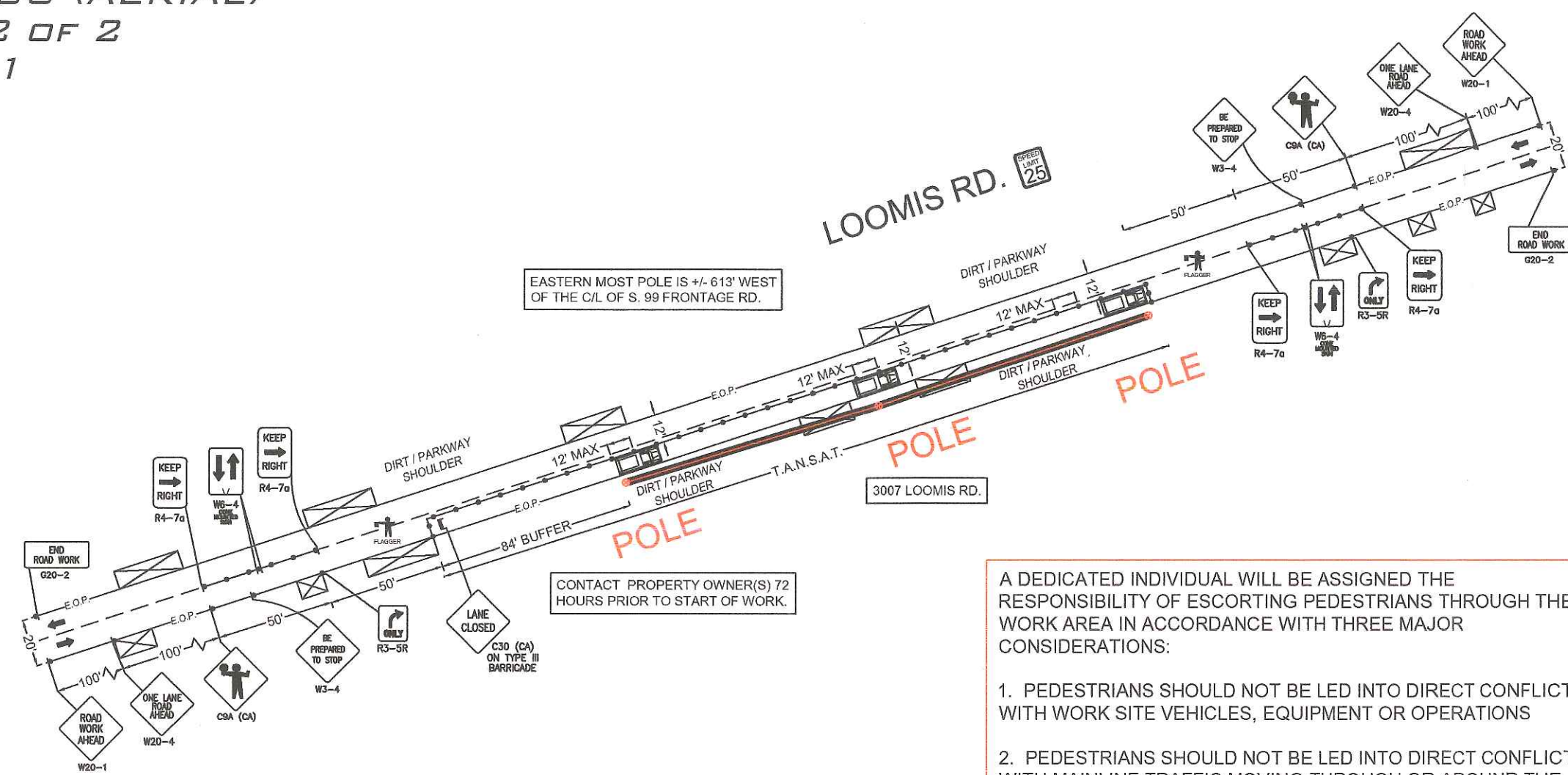
# LOOMIS RD. & S. 99 FRONTAGE RD. POLE ACCESS (AERIAL) WORK AREA 2 OF 2 PHASE 1 OF 1



ISSUE	DATE
1	03-01-18

## LEGEND:

- \* P.F.B. = PORTABLE FLASHING BEACON
- = TYPE III BARRICADES W/ SIGN (5H x 4W)
- = TYPE II BARRICADE W/O SIGN (3H x 2W)
- = 28" (11cm) TRAFFIC CONES W/ 13" (5cm) REFLECTIVE SLEEVE FOR DAY/NIGHT USE OR DELINEATORS IF DAY USE ONLY
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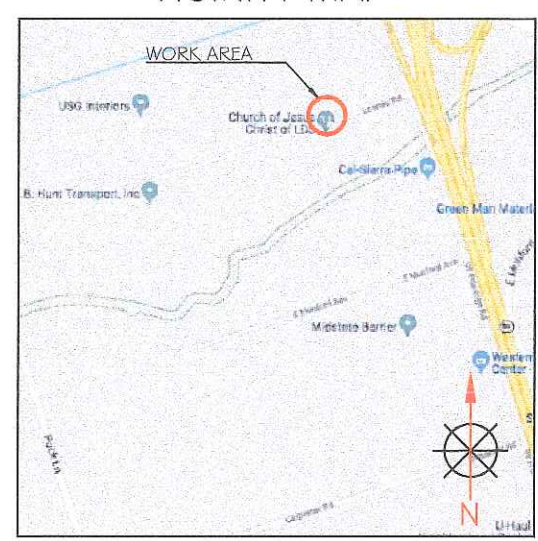
CONTACT PROPERTY OWNER(S) 72 HOURS PRIOR TO START OF WORK.

A DEDICATED INDIVIDUAL WILL BE ASSIGNED THE RESPONSIBILITY OF ESCORTING PEDESTRIANS THROUGH THE WORK AREA IN ACCORDANCE WITH THREE MAJOR CONSIDERATIONS:

1. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH WORK SITE VEHICLES, EQUIPMENT OR OPERATIONS
2. PEDESTRIANS SHOULD NOT BE LED INTO DIRECT CONFLICT WITH MAINLINE TRAFFIC MOVING THROUGH OR AROUND THE WORKSITE
3. PEDESTRIANS SHOULD BE PROVIDED WITH A REASONABLY SAFE, CONVENIENT AND ACCESSIBLE PATH THAT REPLICATES AS NEARLY AS PRACTICAL THE MOST DESIRABLE CHARACTERISTICS OF THE EXISTING SIDEWALK OR FOOTPATH

FOR TEMPORARY AERIAL CROSSING.  
ESTIMATED TIME OF COMPLETION IS 5 MINUTES.

## VICINITY MAP



MAINTAIN DRIVEWAY ACCESS AT ALL TIMES

PHASE 1 OF 1

TYPE OF CONSTRUCTION	AERIAL POLE ACCESS
JOB NUMBER	A018ND2
PAGE: 3 OF 3	SCALE: NONE





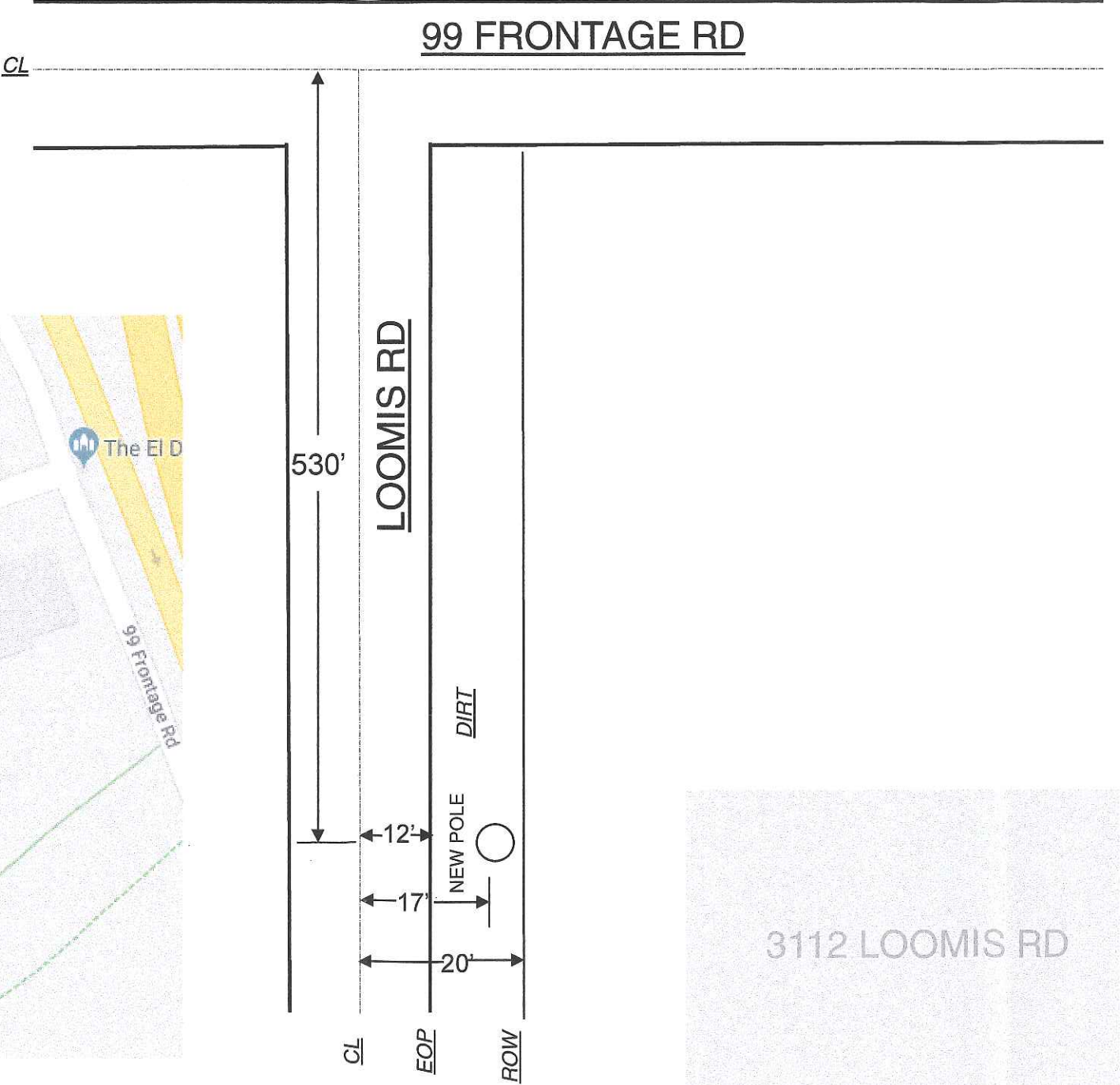
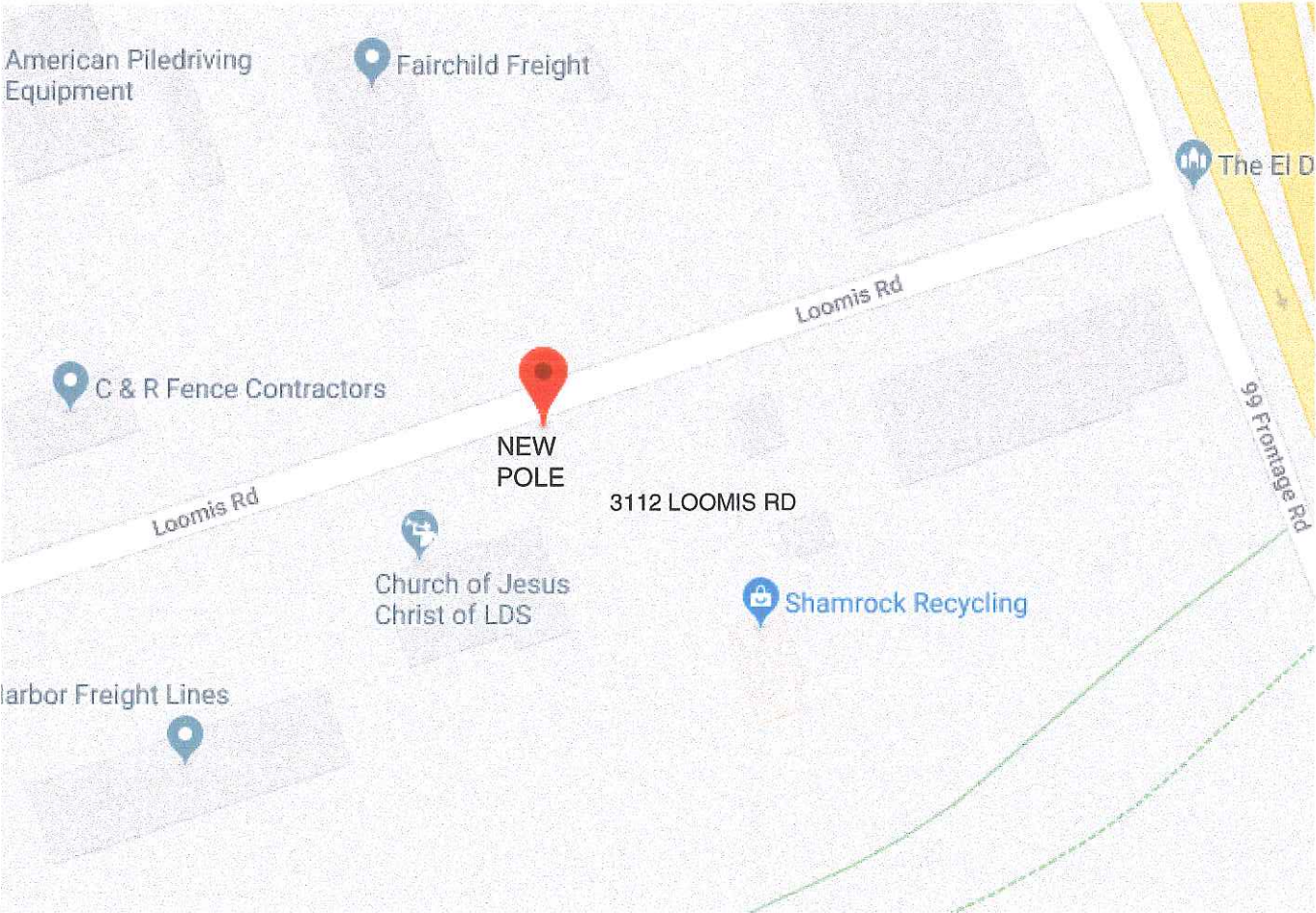
DIG ALERT  
BEFORE EXCAVATING CALL  
U.G. SERVICE ALERT  
1-800-227-2600  
CALL 2 FULL WORKING DAYS  
IN ADVANCE

- CONSTRUCTION NOTES:**
- 1.MINIMUM COVER FOR STRUCTURE IS 30" BELOW GUTTER FLOW LINE OR 36" BELOW EXISTING GRADE, WHICH EVER IS GREATER.
  - 2.ALL SUBSTRUCTURE INFORMATION SHOWN WAS TAKEN FROM RECORDS AVAILABLE AND IS APPROXIMATE. VERIFY, LOCATE AND PROTECT AS REQUIRED.
  - 3.ALL TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE 2014 WORK AREA TRAFFIC CONTROL HANDBOOK AND CALIFORNIA M.U.T.C.D.
  - 4. CONSTRUCTION TO UTILIZE AND IMPLEMENT ALL BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED TO ENSURE COMPLIANCE WITH THE SBC POLICY LETTER ISSUED FEBRUARY 21, 2003 BY ENVIRONMENTAL MANAGEMENT CONCERNING STORM WATER PERMITTING AND STORM WATER POLLUTION PREVENTION PLANS (SWPPP) AND IN ACCORDANCE WITH THE CLEAN WATER ACT (1965) AND EPA REGULATIONS PUBLISHED 1990 AS MODIFIED BY THE PHASE II RULE, IN 1999.

**EXCAVATION DATA**

OWNER	ASPHALT	CONCRETE	DIRT
SAN JOAQUIN COUNTY	NA	NA	4' X 4' = 16 SQ FT

TO DIG 4'X4' PIT TO PLACE 30FT LONG CLASS 4 INTERSET POLE



**46L CONSTRUCTION NOTES:**

- 1. DIG 4'X4' PIT TO PLACE 30FT LONG CLASS 4 INTERSET POLE



NOT TO SCALE



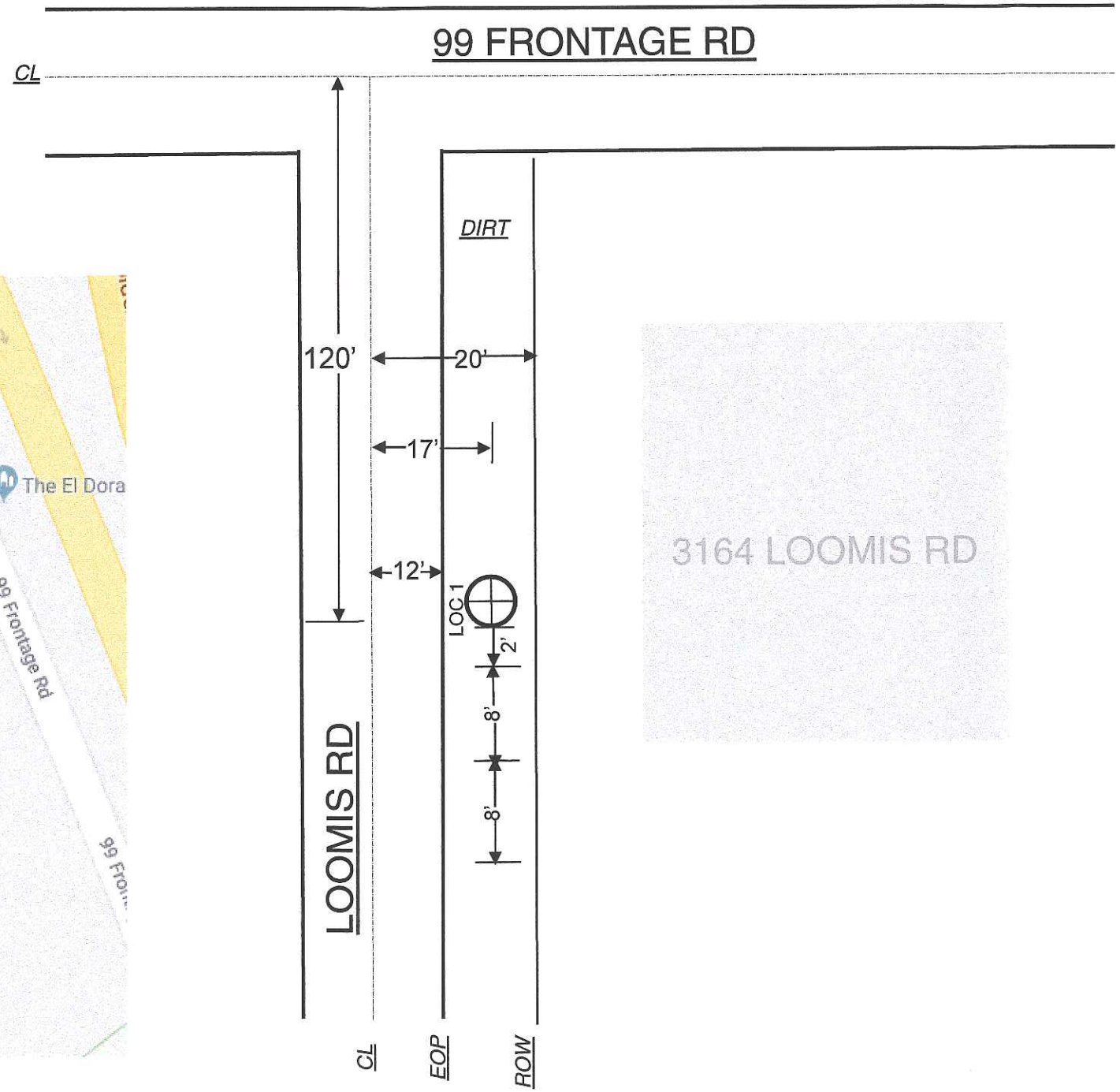
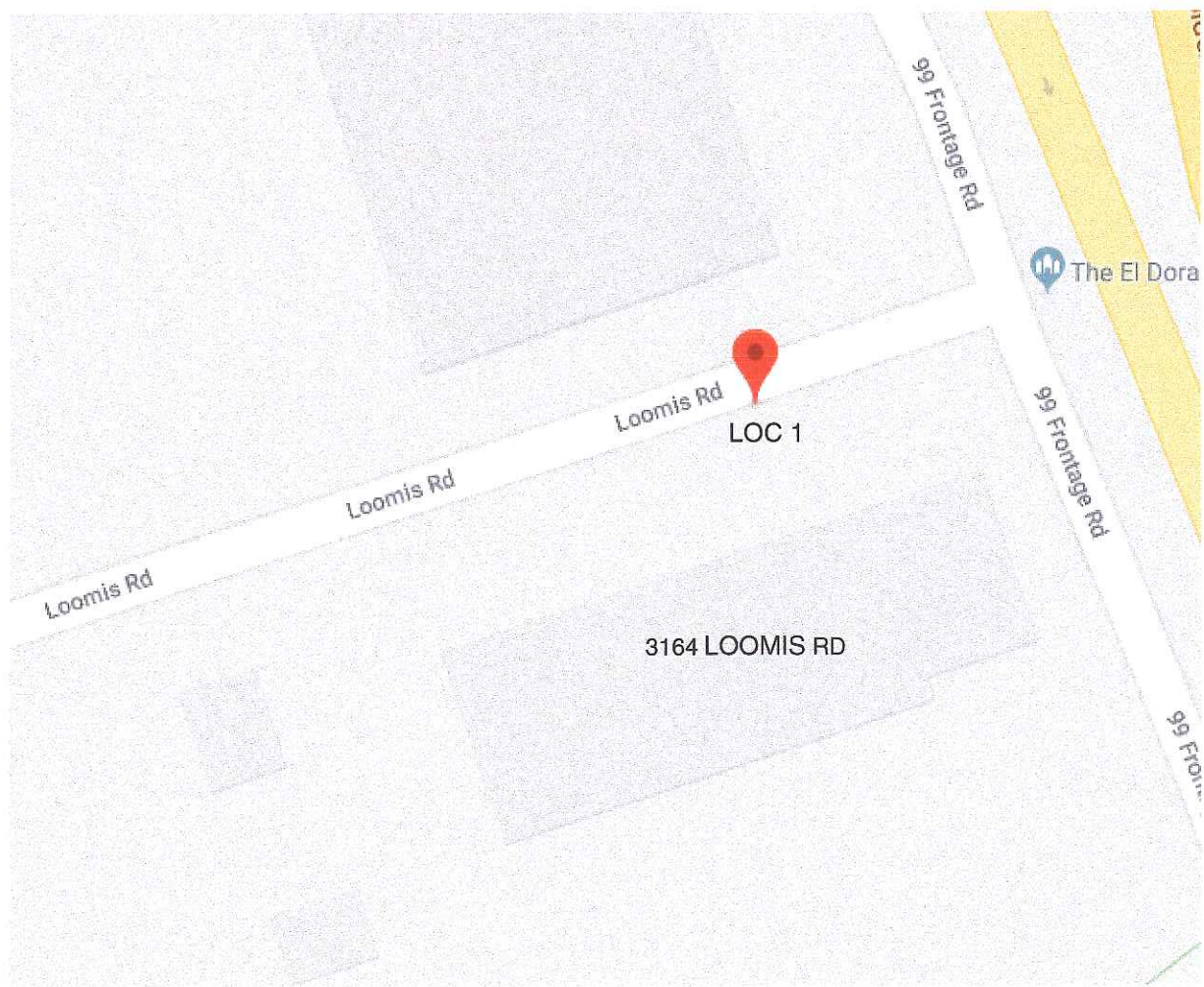


**DIG ALERT**  
**BEFORE EXCAVATING CALL**  
**U.G. SERVICE ALERT**  
**1-800-227-2600**  
**CALL 2 FULL WORKING DAYS**  
**IN ADVANCE**

**EXCAVATION DATA**

OWNER	ASPHALT	CONCRETE	DIRT
SAN JOAQUIN COUNTY	NA	NA	18' X 1' = 18 SQ FT

**PLACE (1) 3-ELECTRODE GROUND BED**  
**IN DIRT @ LOC.1 (37°55'52.7"N 121°14'04.1"W)**



- CONSTRUCTION NOTES:**
- 1.MINIMUM COVER FOR STRUCTURE IS 30" BELOW GUTTER FLOW LINE OR 36" BELOW EXISTING GRADE, WHICH EVER IS GREATER.
  - 2.ALL SUBSTRUCTURE INFORMATION SHOWN WAS TAKEN FROM RECORDS AVAILABLE AND IS APPROXIMATE. VERIFY, LOCATE AND PROTECT AS REQUIRED.
  - 3.ALL TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE 2014 WORK AREA TRAFFIC CONTROL HANDBOOK AND CALIFORNIA M.U.T.C.D.
  4. CONSTRUCTION TO UTILIZE AND IMPLEMENT ALL BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED TO ENSURE COMPLIANCE WITH THE SBC POLICY LETTER ISSUED FEBRUARY 21, 2003 BY ENVIRONMENTAL MANAGEMENT CONCERNING STORM WATER PERMITTING AND STORM WATER POLLUTION PREVENTION PLANS (SWPPP) AND IN ACCORDANCE WITH THE CLEAN WATER ACT (1965) AND EPA REGULATIONS PUBLISHED 1990 AS MODIFIED BY THE PHASE II RULE, IN 1999.

- 46L CONSTRUCTION NOTES:**
1. EXCAVATE & PLACE 3-ELECTRODE GROUND BED IN DIRT @ LOC.1.
  2. GROUND BEDS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL/PARALLEL SEPARATION OF 5 FT FROM EXISTING WATER FACILITIES



NOT TO SCALE



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 within 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 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

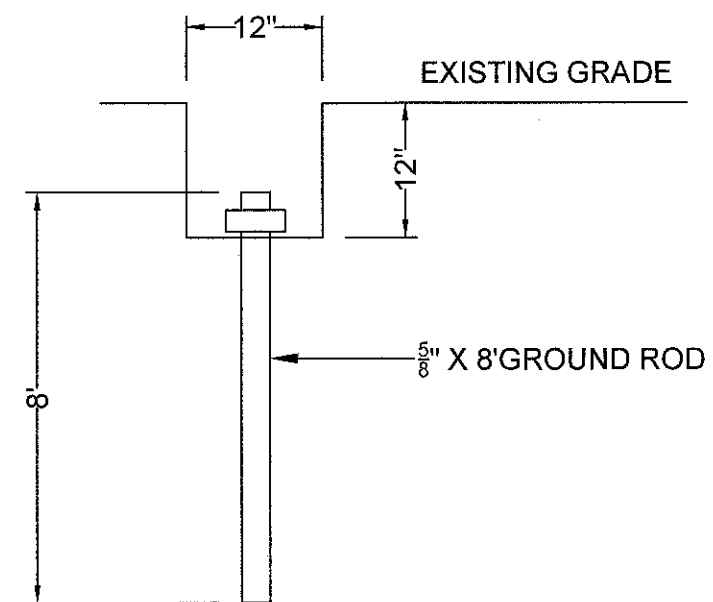
### Winter Weather Utility Work

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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.



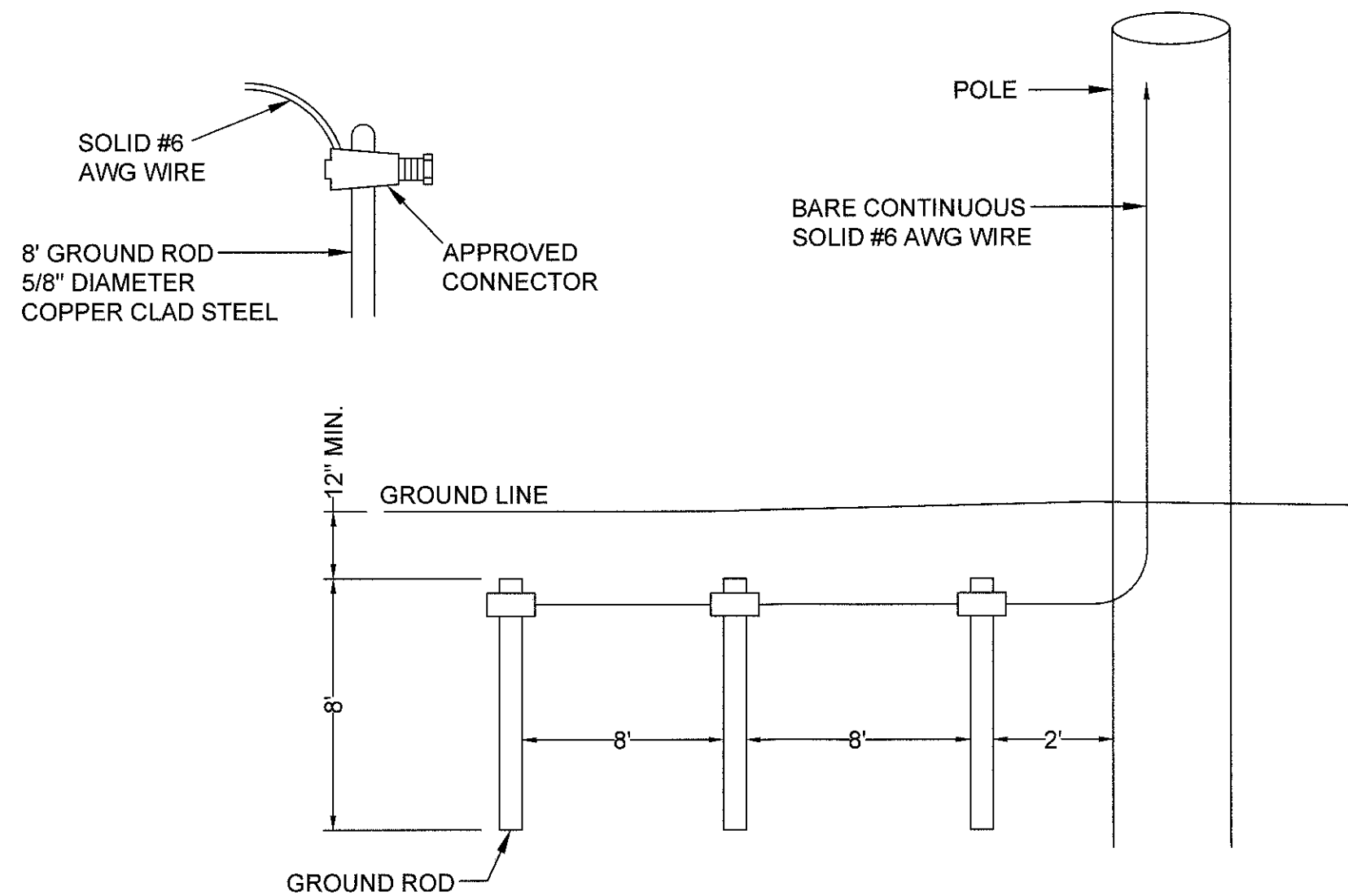
GROUND BED  
CROSS SECTIONAL DIAGRAM



NOT TO SCALE



# GROUND BED PROFILE TYPICAL



NOT TO SCALE