



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-1700086
Date Issued: 01/13/2017
Start Date: 01/13/2017
Exp. Date: 02/15/2017
Project No: PWP7110005
Quad: SE

ENCROACHMENT PERMIT

To: WAVE BROADBAND
1225 E SUNSET DR 145 823
BELLINGHAM, WA 98226

Encroachment Type:

Bore (up to 12 inch Dia)	Bell Hole		
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Location:

E/S MCKINLEY AVE @ EL DORADO ST

In compliance with your request of 01/13/2017, 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:

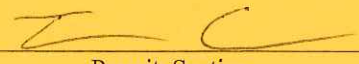
Traffic Control Per MUTCD

FORMS: SS/WW, R-29

Est. Permit Fee: \$549.00

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

KRIS BALAJI, Director
Department of Public Works

By: 
Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:

STREETS AND HIGHWAYS CODE

1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 10/11/16

To: San Joaquin County
Department of Public Works

Wave Broadband

 (Applicant Name)

215 Mason Circle

 (Mailing Address)

Concord, CA, 94520

 (City, State, Zip Code)

(415) 516-3902

 (Area Code - Telephone Number)

OFFICE USE ONLY	
JOB #	<u>110005</u> REF # _____
APN	_____ CR # _____
EXP. DATE	<u>2-15-17</u>
VALID	<u>1-13-17</u> TO <u>2-15-17</u> DRIVEWAYS: _____
STREET	<u>McKinley Ave</u> * _____
AREA	<u>Stockton</u> QUAD <u>SE</u> * _____
TYPE	<u>BOFP</u> * _____
FORMS	<u>SSWH R29</u>
NOTES	_____

Sketch (Detailed plans may be submitted)
 Please see attached construction permit drawing

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the East side of El Dorado St + McKinley Ave. approximately 40 feet/mile 0 of McKinley Ave, El Dorado St, by performing the following work (description of work):
Placing conduit by directional bore method.

Work will commence on or about ASAP for approximately 30 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.

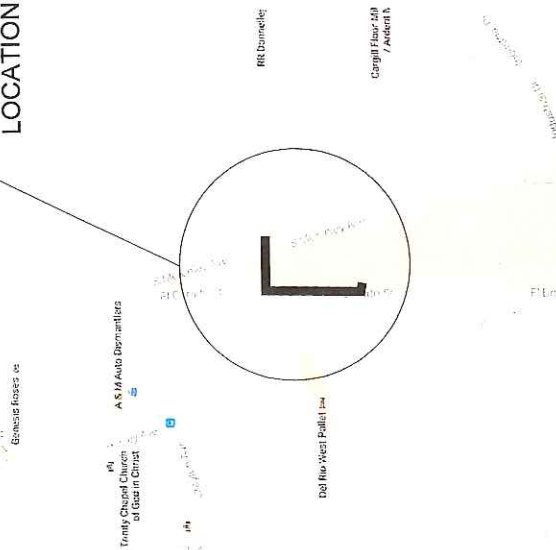
CHRISTIAN SILVA - PERMIT TECH

 Signature of Applicant - Title

10/11/16

 Date

WORK AREA LOCATION



LOCATION MAP FRENCH CAMP, CA N.T.S.

TABLE OF CONTENTS

SHEET	DESCRIPTION
01	COVER SHEET
02	CONSTRUCTION DRAWING
03	TYPICAL DETAILS
04	TRAFFIC CONTROL
05	TRAFFIC CONTROL
06	TRAFFIC CONTROL

DIGALERT

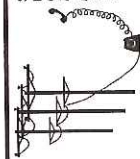
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
(811)

Know what's below.
Call before you dig.



PLAN REVISIONS

REV.	DATE	DESCRIPTION	BY



STRUCTURE LEASING & ENGINEERING INC.
RAY DELGADO
CELL: 408-504-2486
EMAIL: RAYDELGADO@SLGROUP.NET
NIK DELGADO
CELL: 408-666-3448
EMAIL: NIKDELGADO@SLGROUP.NET



AGENCY:

REF#

APPLICANT:

wave
ASTOUND
BROADBAND

LOCATION:

PROJECT #9967 EL DORADO ST AND
MCKINLEY AVE
UNDERGROUND CROSSING

JN#

DESIGN/DATE/NO DATE: 10/20/2016
FILE/NO/DATE: 10/20/2016

SHEET
1 OF 6

wave ASTOUND BROADBAND

PROJECT #9967 EL DORADO ST AND MCKINLEY AVE

UNDERGROUND CROSSING

CONTACT LIST

WAVE

JEREMY BUBENICK
FIBER CONSTRUCTION MANAGER
215 MASON CIRCLE
CONCORD, CA 94520
TEL: 415-516-3902
jbubenick@wavebroadband.com

SAN JOAQUIN COUNTY
PUBLIC WORKS DEPARTMENT
1810 E HAZELTON AVE
STOCKTON, CA, 95205
TEL: (209) 468-3000

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GENERAL CONSTRUCTION NOTES

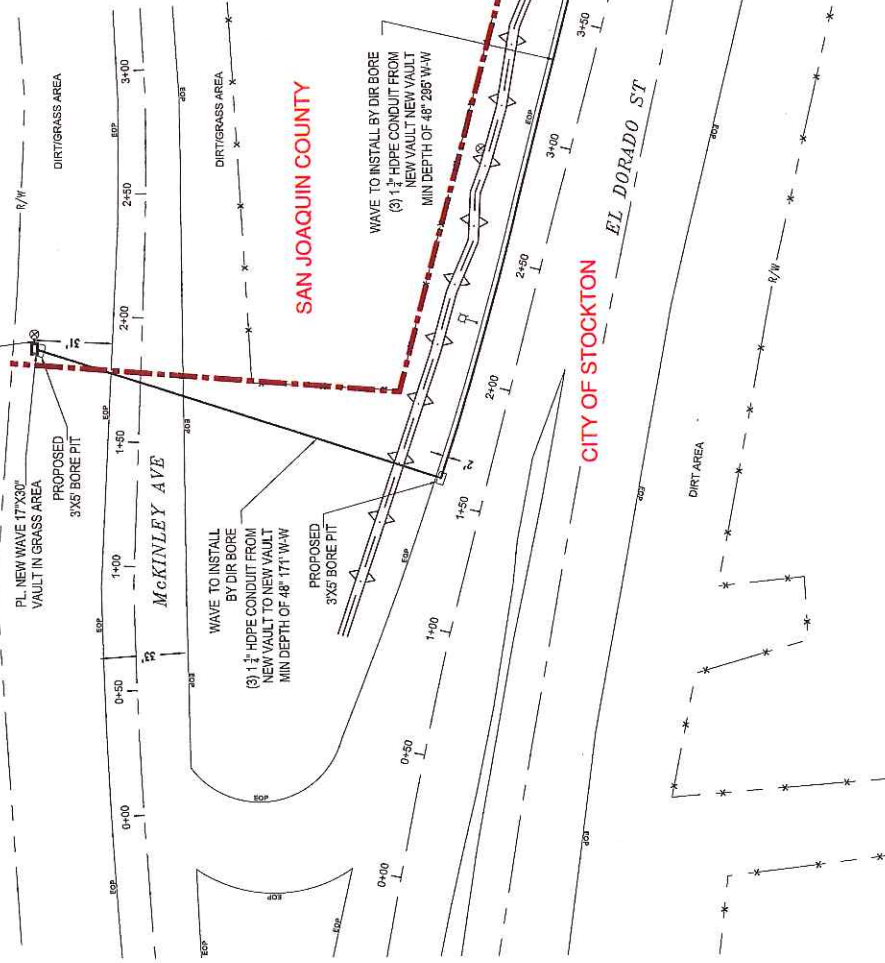
- CONTACT "USA" FOR UNDERGROUND UTILITY LOCATES, 48 HOURS PRIOR TO CONSTRUCTION. CA PHONE NO.: 1-800-227-2600
- CONTRACTOR TO FOLLOW ALL OSHA, LOCAL, STATE, AND BUILDING CODES.
- CONTRACTOR TO VERIFY ALL DIMENSIONS & MATERIALS REQUIRED.
- MAINTAIN A MINIMUM 5' SWEEP ON ALL CONDUIT BENDS.
- PLACE PULL ROPES IN ALL CONDUIT & INNERDUCTS.
- CONTRACTOR MUST CLEAN UP WORK AREAS AT THE END OF EACH WORK DAY & REMOVE TRASH & DEBRIS FROM WORK SITE.
- CONTRACTOR WILL GROUT & SEAL ALL BUILDING ENTRANCES WITH APPROVED MATERIALS.
- PLACE BUSHINGS ON ALL CONDUIT ENDS, FOR CABLE PROTECTION.
- PLACE TRIPLEX & BLANK DUCT PLUGS AT BUILDING ENTRANCE CONDUITS.
- CONTRACTOR IS RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF DAMAGED FACILITIES ON THE ADJACENT PROPERTY.
- ALL CONDUIT ENDS WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- ALL WORK TO BE PERFORMED PER CONSTRUCTION SPECIFICATION UNLESS OTHERWISE DIRECTED BY PROPERTY MANAGEMENT.
- THE CONTRACTOR WILL PROVIDE AS-BUILT RECORDS TO BE GIVEN TO MANAGEMENT UPON COMPLETION OF CONSTRUCTION.
- CONTRACTOR TO COMPLY WITH TRAFFIC CONTROL PLAN USE APPROPRIATE ATTACHMENT.
- ALL EXISTING UTILITIES MUST BE POTHOLED BEFORE BEGINNING CONSTRUCTION.
- PLACE A 12" AVG SOLID (0.0608" DIAMETER) TRACER WIRE ALONG WITH THE CONDUIT INSTALLATION TO BE TERMINATED ON AN ACCEPTABLE TERMINATION BLOCK IN EACH HANDHOLE/HN LOCATION.

CONTRACTOR
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY FIELD INSPECTION AND A SEARCH OF THE AVAILABLE CITY OR COUNTY RECORDS. SINCE THE ACTUAL LOCATION AND NATURE OF THE UNDERGROUND FACILITIES MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO VERIFY THE INFORMATION THROUGH UNDERGROUND SERVICE ALERT (USA) OR BY CONTACTING THE UTILITY COMPANIES DIRECTLY. PRIOR TO EXCAVATION.

CONSTRUCTION NOTE:
 PLACE A 12" AWG SOLID (0.0808" DIAMETER)
 TRACER WIRE ALONG WITH THE CONDUIT
 INSTALLATION TO BE TERMINATED ON AN
 ACCEPTABLE TERMINATION BLOCK IN EACH
 HANDHOLE/MH LOCATION

LEGEND

- WAVE FIBER US BUILD
- EXISTING POLE NATURAL GAS
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING ELECTRIC
- EXISTING TELEPHONE
- EXISTING RIGHT OF WAY
- EXISTING SD MANHOLE
- EXISTING SS MANHOLE
- EXISTING ATT MANHOLE
- EXISTING ELECTRIC HANDHOLE
- EXISTING ATT HANDHOLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING TREE
- EXISTING WATER VALE
- POLE



ABBREVIATIONS

- GAS
- NOT TO SCALE
- EXISTING
- MANHOLE
- EDGE OF PAVEMENT
- FACE OF CURB
- STREET LIGHT
- STORM DRAIN
- STREET LIGHT
- SANITARY SEWER
- TELEPHONE
- WATER
- DRIVEWAY

SCALE: 1" = 50'
 30' 50' 80'

811
 CALL TOLL FREE
 48 HOURS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT
 (811)
 Know what's below.
 Call before you dig.

REV.	DATE	DESCRIPTION	BY

STRUCTURE LEASING & ENGINEERING INC
 RAY DELGADO
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 EMAIL: RAYDELGADO@SLGROUP.NET
 NIK DELGADO
 CELL: 408-866-3448
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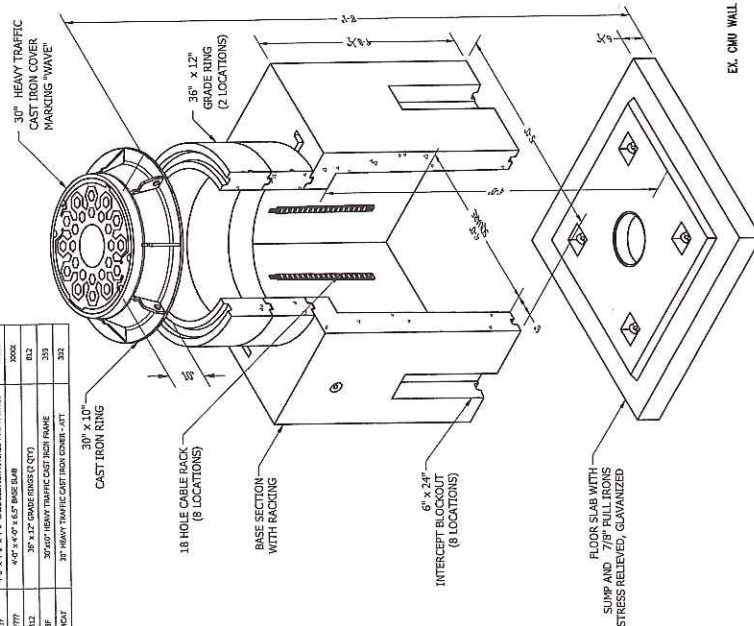


ASTOUND
 BROADBAND

LOCATION: PROJECT #9987 EL DORADO ST AND
 MCKINLEY AVE
 UNDERGROUND CROSSING
 JNH#
 DATE 10/02/16
 DATE 10/02/16
 SHEET
 2 OF 6

PART #/M	DESCRIPTION	WEIGHT (LBS)
777777	4"x4"x4" WOOD SIGN STATION BACKED AND PAINTED	X006
777777	4"x4"x4" WOOD BUS STOP SIGN	X006
825442	36" x 12" GRADE RINGS (QTY)	812
CALLIFJF	30"x60" HEAVY TRAFFIC CAST IRON FRAME	359
CALLIFHAT	30" HEAVY TRAFFIC CAST IRON CORNER ATT.	392

PART #/M	DESCRIPTION	WEIGHT (LBS)
777777	4"x4"x4" WOOD SIGN STATION BACKED AND PAINTED	X006
777777	4"x4"x4" WOOD SIGN SUB	X006
825442	35' x 17' GRADE RINGS (QTY)	812
CALLIFJF	30"x60" HEAVY TRAFFIC CAST IRON FRAME	359
CALLIFGK	30"x60" HEAVY TRAFFIC CAST IRON CORNER ATT.	392



INSTALLATION NOTES:

1. Prepare the excavation approximately 6" deeper than the overall height of the enclosure. The length and width of the excavation should be determined by adding 4" to 6" to the overall length and width of the handhole or pull box.

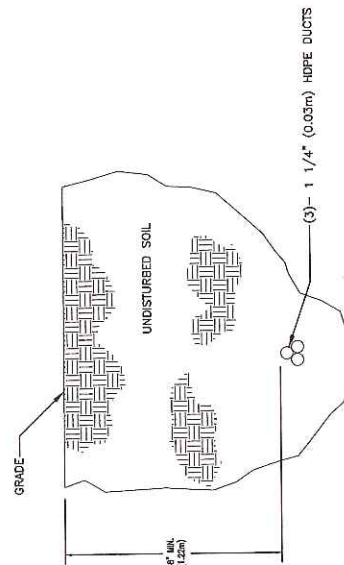
2. Place approximately 3-6" of compacted material such as sand or gravel in the bottom of hole. Gravel is the recommended material because of its drainage characteristics. The compacted material should be leveled so the top of the handhole or pull box is flush to the grade.

3. Place selected backfill into the excavation at 1' lift and compact either by manual compacting or flooding the excavation to achieve the desired relative compaction. Install with cover in place.

DIMENSION			WEIGHT
WIDTH	LENGTH	DEPTH	100 LBS
(61CM)	(91.4CM)	(61CM)	

3'X2.5'X2' HDPE (MODEL #PEM-3036)

N.T.S.

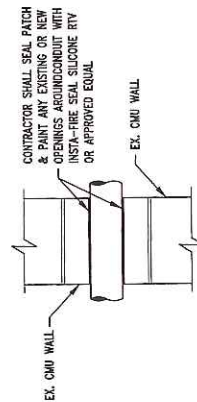


DIRECTIONAL BORE TYPICAL

W.T.S.

BLOCK WALL

PENETRATION DETAIL



DIGALERT
CALL TOLL FREE

DIGALLI
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Know what's below.
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[illegible]

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NIK DELGADO
CELL: 408-666-3448
EMAIL: NIKDELGADO@SLEGROUP.NET

AGENCY/CITY:

APPLICANT:

LOCATION:

LOCATION:
PROJECT #9967 EL DORADO ST AND
MCKINLEY AVE
UNDERGROUND CROSSING

ASTOUND BROADBAND

三

REGION: DLE DATE: 10/30/2018

SHEET

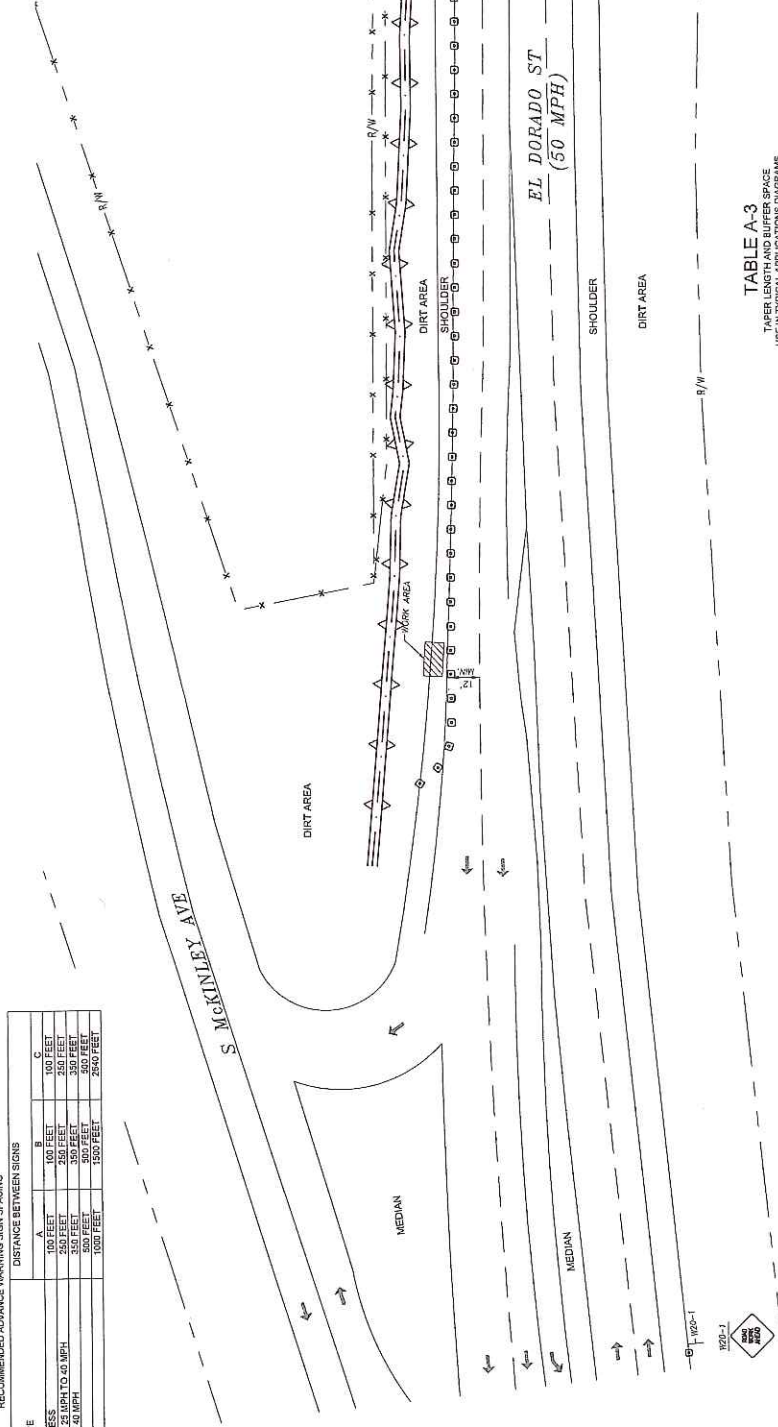
SHEET

TABLE A-2

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	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 (HIGH SPEED: MORE THAN 40 MPH)	500 FEET	500 FEET	500 FEET
EXPOSED FREEWAY	1000 FEET	1000 FEET	2500 FEET

REVIEWED () AS NOTED BY:
NOTE: See Table A
for Sign, Cone Spacing,
and Taper Lengths

DATE: 10/20/16
PROJECT INSPECTOR MAY MODIFY
TRAFFIC CONTROL PLANS AS
FIELD CONDITIONS DICTATE



SEE SHEET 5 STA N/A

TABLE A-3

TAPER LENGTH AND BUFFER SPACE
USE IN TYPICAL APPLICATIONS DIAGRAMS

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED	
Speed in MPH	Distance Feet
25	115
30	155
35	200
40	250
45	300
50	350
55	405
60	465
65	530
70	600
75	675
80	760

* Posted speed, off-peak 85th percentile speed prior to starting, or the anticipated
operation speed.
** For other offset widths, apply the formula in table A-1.

NOTE TO CONTRACTOR:
IF SIDEWALK AND/OR ANY PROGRAM TRAFFIC ARE TO
BE MAINTAINED OR AFFECTED, USE THE FOLLOWING
SIGNS TO BLOCK AND REDIRECT FOOT TRAFFIC.

TABLE A

MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

TABLE A-1

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER	MINIMUM
SHIFTER TAPER	12 L MINIMUM
SHOULDER TAPER	10 L MINIMUM
DOWNSTREAM TAPER	50 FEET MINIMUM
(USE IS OPTIONAL)	100 FEET MAXIMUM

FORMULA FOR TAPER LENGTH 'L'

$$L = \frac{WS^2}{400} \text{ (40 MPH OR LESS) } L = \frac{WS^2}{400} \text{ (45 MPH OR GREATER)}$$

L = TAPER LENGTH IN FEET
W = WIDTH OF TAPER IN FEET
S = SPEED IN MPH

811
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PLAN REVISIONS

REV	DATE	DESCRIPTION	BY

STRUCTURE LEASING & ENGINEERING INC
RAY DELGADO
CELL: 408-504-2488
EMAIL: RAYDELGADO@SLGROUP.NET
NIR DELGADO
CELL: 408-866-3448
EMAIL: NIRDELGADO@SLGROUP.NET



APPLICANT:

LOCATION: PROJECT #9987 EL DORADO ST AND
MCKINLEY AVE
UNDERGROUND CROSSING
JN#

wave
ASTOUND
BROADBAND

SHEET
4 OF 6

DATE: 10/20/16
DESIGN: EJE
FIELD: EJE

RECOMMENDED ADVANCE WARNING SIGN SPACING

DISTANCE BETWEEN SIGNS			
	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 (LOW SPEED) 25 MPH OR LESS	500 FEET	500 FEET	500 FEET
RURAL (HIGH SPEED) MORE THAN 40 MPH	1000 FEET	1500 FEET	2000 FEET

REVIEWED (____ AS NOTED) BY: _____

NOTE: See Table A
for Sign, Cone Spacing,
and Taper Lengths

DATE: ____/____/20____

PERMIT #: _____

PROJECT INSPECTOR MAY MODIFY
TRAFFIC CONTROL PLANS AS
FIELD CONDITIONS DICTATE

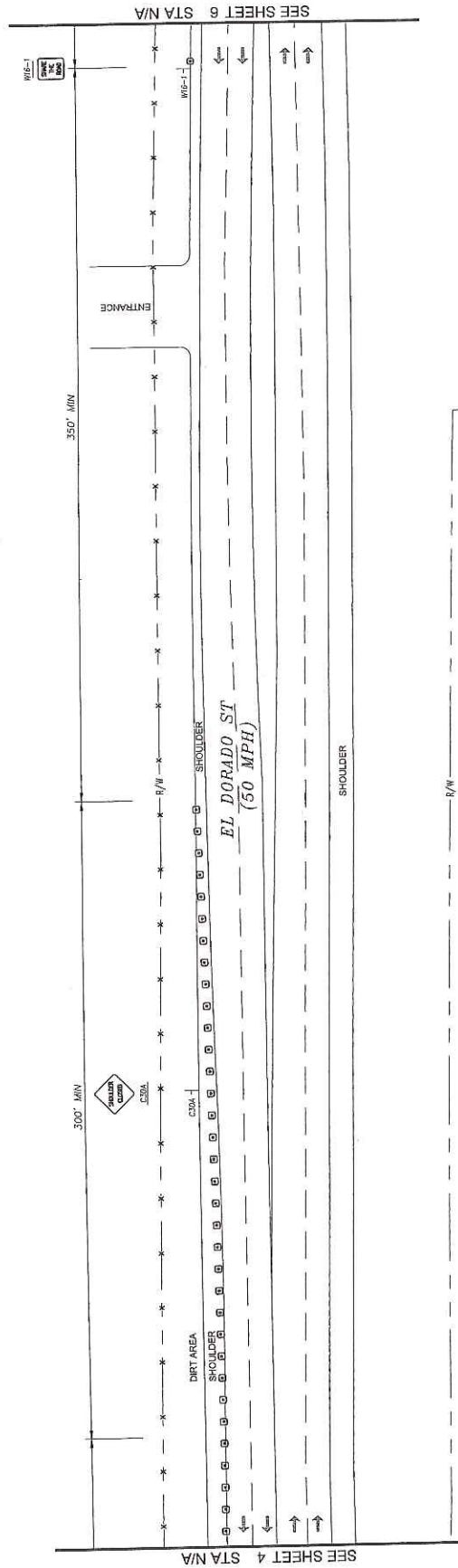


TABLE A-3
TAPER LENGTH AND BUFFER :
USE IN TYPICAL APPLICATIONS

LENGTH OF TAPER 'L' IN FEET

Speed in mi/hour	Wells of Origin	Speed in mi/h	Distance
20	73 Feet	20	115 FEET
25	115	25	155 FEET
30	155	30	200 FEET
35	225	35	250 FEET
40	335	40	305 FEET
45	495	50	385 FEET
50	550	55	495 FEET
55	685	60	570 FEET
60	690	65	645 FEET
65	715	70	730 FEET

* Posted speed, off-peak 85th percentile speed prior to starting, or the anticipated operation speed.

NOTE TO CONTRACTOR:
IF SIDEWALK AND/OR ANY PEDESTRIAN TRAFFIC ARE TO
BE RESTRICTED AND/OR AFFECTED, USE THE FOLLOWING
SIGNAL TO BLOCK AND RECURRENT FOOT TRAFFIC



STORAGE CLOSED

TABLE A

MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

TABLE A-1

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES	
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER	L MINIMUM
MERGING TAPER	1/2 L MINIMUM
SHIFTING TAPER	1/3 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
THRUWAY TRAFFIC TAPER	50 FEET MINIMUM
DOWNSTREAM TAPER	100 FEET MAXIMUM
(SEE FIGURE 1)	

FORMULA FOR TAPER LENGTH 'L'

L = $\frac{WS^2}{60}$ (40 MPH OR LESS) L = WS (45 MPH OR GREATER)
 L = TAPER LENGTH IN FEET
 W = WIDTH OF OFFSET IN FEET



SCALE: 1" = 50'

STRUCTURE LEASING & ENGINEERING INC
RAY DELGADO
CELL: 408-504-2486
EMAIL: RAYDELGADO@SLEGROUP.NET

NIK DELGADO
CELL: 408-866-3418
EMAIL: NIKDELGADO@SLEGROUP.NET



APPLICANT: **wave** ASTOUND BROADBAND

LOCATION:
PROJECT #9967 EL DORADO ST AND
MCKINLEY AVE
UNDERGROUND CROSSING

JN#	DESIGN: SLE	DATE: 10/3/2016	SHEET 5 OF 6
	PRINT NUMBER: 2	DATE: 10/3/2016	

DIGALERT
CALL TOLL FREE
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(811)

Know what's below.
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TABLE A-2

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
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URBAN (HIGH SPEED: 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 (LOW SPEED: 25 MPH OR LESS)	100 FEET	100 FEET	100 FEET
RURAL (HIGH SPEED: 25 MPH TO 40 MPH)	250 FEET	250 FEET	250 FEET
RURAL (HIGH SPEED: MORE THAN 40 MPH)	350 FEET	350 FEET	350 FEET
EXPRESSWAY/FREEWAY	1000 FEET	1500 FEET	2800 FEET

REVIEWED (AS NOTED) BY:

NOTE: See Table A
for Sign, Core Spacing,
and Taper Lengths

DATE: / / 20
PERMIT #:
PROJECT INSPECTOR MAY MODIFY
TAPER LENGTHS BASED ON
FIELD CONDITIONS DICTATE

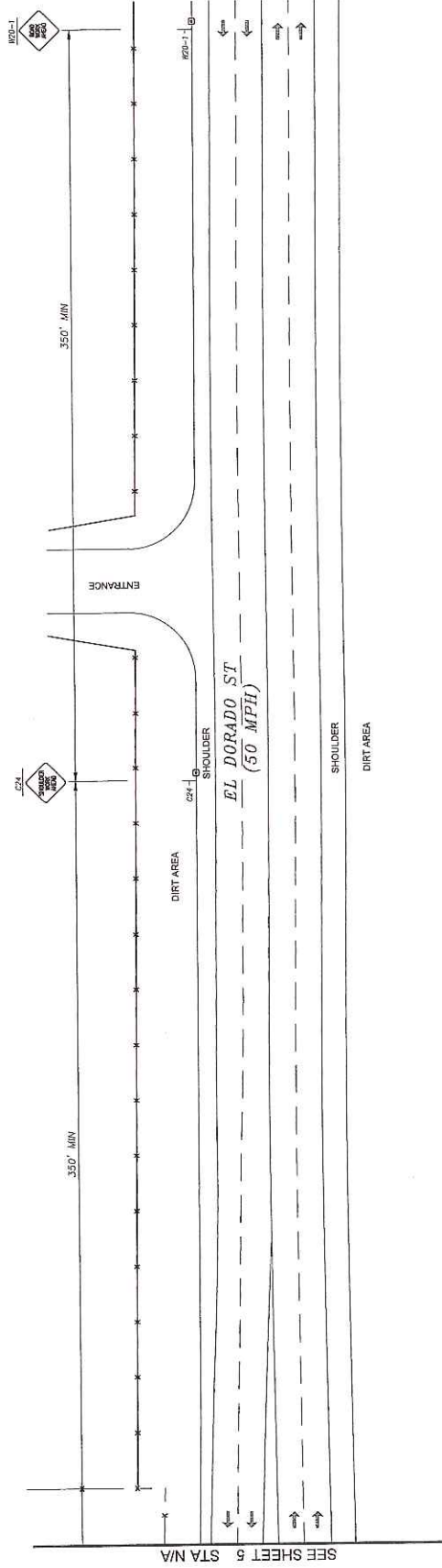


TABLE A-3

TAPER LENGTH AND BUFFER SPACE
USE IN TYPICAL APPLICATIONS DIAGRAMS

LENGTH OF TAPER 'L' IN FEET		STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED	
Speed in MPH	Width of Taper	Speed in MPH	Distance
15	11	25	115 FEET
20	15	30	155 FEET
25	20	35	200 FEET
30	25	40	250 FEET
35	30	45	300 FEET
40	35	50	350 FEET
45	40	55	400 FEET
50	45	60	450 FEET
55	50	65	500 FEET
60	55	70	550 FEET
65	60	75	600 FEET
70	65	80	650 FEET

* Posted speed, off-pavement 85th percentile speed prior to starting, or the anticipated operation speed.

** For other offset widths, apply the formula in table A-1.

NOTE TO CONTRACTOR:
IF SIDEWALK AND/OR ANY PROHIBITED TRAFFIC ARE TO
BE AFFECTED, THE FOLLOWING
SIGNS TO BLOCK AND REDIRECT FOOT TRAFFIC.

18" x 24" (STANDARD)
18" x 24" (MIN.)
36" x 36" (STANDARD)
36" x 36" (MIN.)

TABLE A

MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

TABLE A-1

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER	L MINIMUM
SHIFTER TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/3 L MINIMUM
DOWNSTREAM TAPER	50 FEET MINIMUM
USE IS OPTIONAL	100 FEET MAXIMUM

FORMULA FOR TAPER LENGTH 'L'

$$L = \frac{WS^2}{1500} \text{ (FOR MPH OR LESS) } L = \frac{WS^2}{1500} \text{ (FOR MPH OR GREATER)}$$

L = TAPER LENGTH IN FEET
W = WIDTH OF TAPER IN FEET
S = SPEED IN MPH

811
DIGALERT
CALL TOLL FREE
48 HOURS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
(800) 481-4811
Know what's below.
Call before you dig.

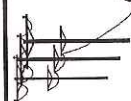
PLAN REVISIONS

REV.	DATE	DESCRIPTION	BY

APPLICANT:

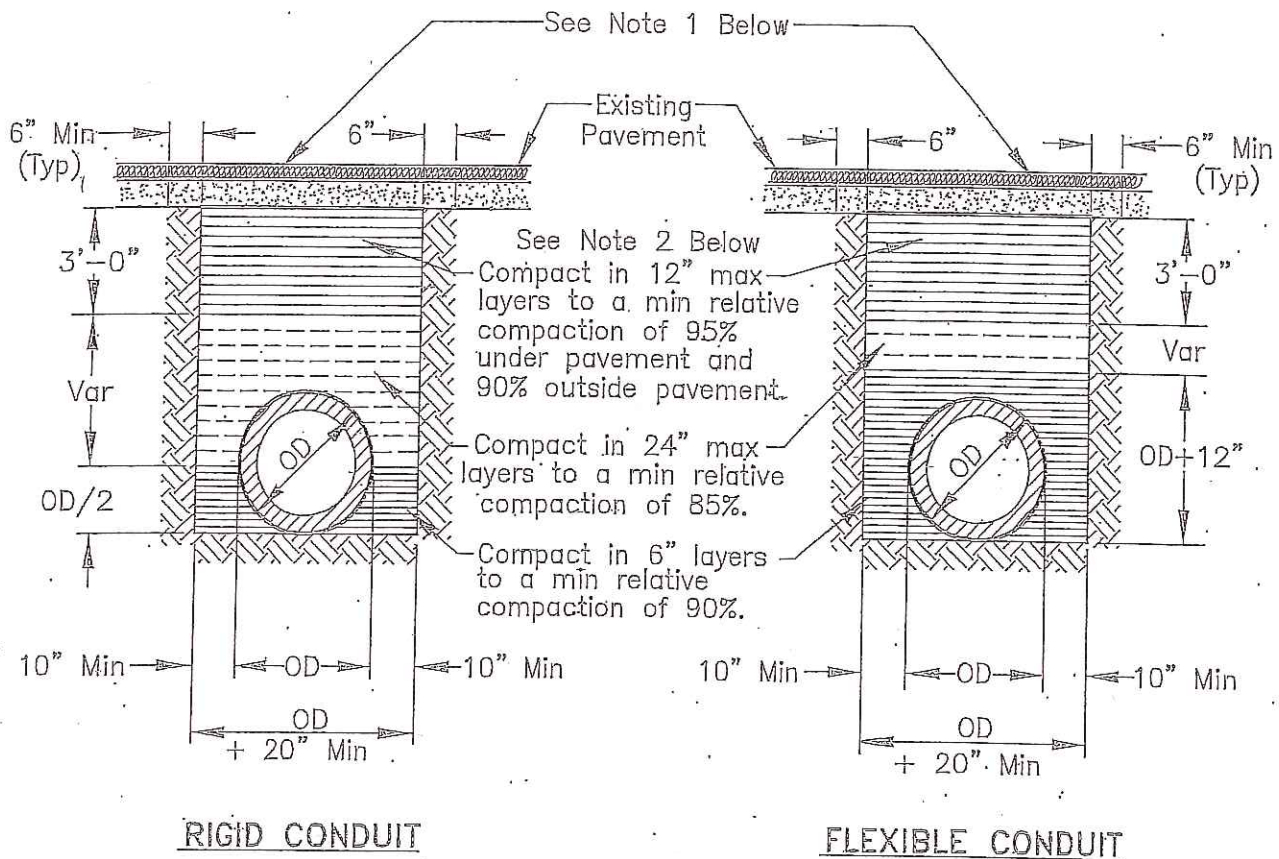


STRUCTURE LEASING & ENGINEERING INC
RAY DELGADO
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NIK DELGADO
CELL: 408-666-3448
EMAIL: NIKDELGADO@SLGROUP.NET



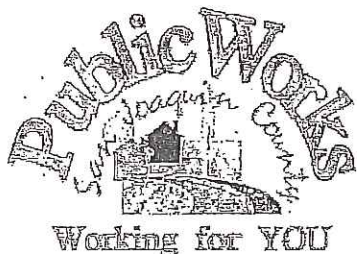
PROJECT #9967 EL DORADO ST AND
MCKINLEY AVE
UNDERGROUND CROSSING
JN#

wave
ASTOUND
BROADBAND



NOTES:

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



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Thomas M. Gull

No.	Revision	Description	Date

Std. Dwg. No.

R-29

Date: DEC. 2014

GENERAL PROVISIONS

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

PUBLIC CONVENIENCE AND SAFETY:

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

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.