



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-1601790
Date Issued: 06/21/2016
Start Date: 06/22/2016
Exp. Date: 09/01/2016
Project No: PWP7110005
Quad: SS

ENCROACHMENT PERMIT

To: CALTRANS/ QUAN TRINH
611 SAN JUAN AVE.
STOCKTON, CA 95203

Encroachment Type:

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

S/S OF MARIPOSA RD. STARTING POINT SECTION AVE. (COUNTY LIMIT LINE) ENDING POINT SILVA AVE. (COUNTY LIMIT LINE)

In compliance with your request of 06/21/2016, 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 @@ No pavement cuts shall be allowed within the San Joaquin County right-of-way. Trenching shall be allowed in the dirt shoulders within the San Joaquin County right-of-way. Boring shall be used under all intersections, paved driveways approaches and paved frontages @@
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FORMS:	SS/WW, R-29	SPECIAL COND.	
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Est. Permit Fee: ~~XXXXXX~~ NO FEE

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, 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 5/31/16

To: San Joaquin County
Department of Public Works

Quan Trinh (Caltrans)
(Applicant Name)

611 San Juan Ave
(Mailing Address)

Stockton, CA 95203
(City, State, Zip Code)

(209)471-4008
(Area Code - Telephone Number)

OFFICE USE ONLY	
JOB #	<u>PWP-7110005</u> REF # _____
APN	_____ CR # _____
EXP. DATE	<u>9-1-2016</u>
VALID	<u>6-22-2016</u> <u>9-1-2016</u> DRIVEWAYS: _____
STREET	<u>Mariposa Rd</u> *
AREA	<u>Stockton</u> QUAD <u>SS</u> *
TYPE	<u>Trench (in Ditch) Bore</u> *
FORMS	<u>SS (w/ R29 Special Condition)</u>
NOTES	_____

Sketch (Detailed plans may be submitted)

See attached

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the South side of Mariposa Rd approximately 2,000 feet/mile of _____, by performing the following work (description of work):
Lay fiber optic cable along Mariposa Rd between Section Ave and Silva Rd. The cable will be below ground. During construction, lane closure and reverse traffic control will be required.

Work will commence on or about 6/16/16 for approximately 20 working days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.


Signature of Applicant - Title

5/31/16
Date

**SPECIAL CONDITIONS FOR CALTRANS MARIPOSA RD. FIBER OPTIC
ENCROACHMENT PERMIT**

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.
2. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.
3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
6. 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)
7. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by Caltrans, including any facilities that are abandoned in place. Caltrans shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at Caltrans' expense. (Streets and Highways Code Section 1463)
8. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.
9. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
10. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.
11. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.

12. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.
13. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.
14. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.
15. The contractor shall not conduct construction operations in rain or heavy fog conditions.

ACNHP-X077(024)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	1	112



**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
AND CITY STREET
IN SAN JOAQUIN COUNTY
IN STOCKTON
ON ROUTE 4 FROM UNION STREET UNDERCROSSING
TO ROUTE 99 AND ON ROUTE 99
AT ROUTE 4/99 SEPERATION**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

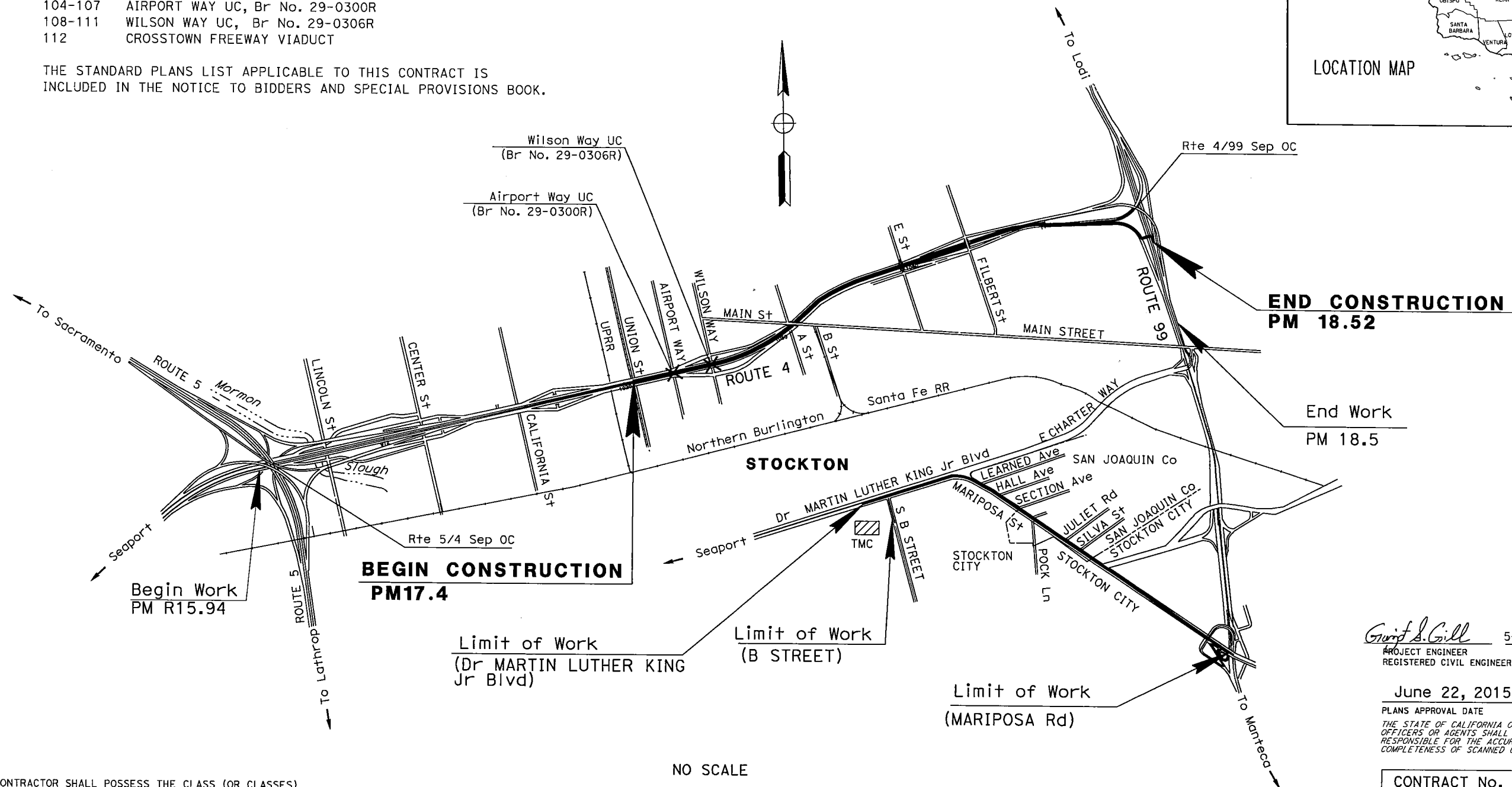
SHEET No.	DESCRIPTION
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1	TITLE AND LOCATION MAP	
2-3	TYPICAL CROSS SECTIONS	
4-9	LAYOUTS	
10-12	CONSTRUCTION DETAILS	
13-28	UTILITY PLANS	
29	CONSTRUCTION AREA SIGNS	
30-34	TRAFFIC HANDLING PLANS AND QUANTITIES	
35-36	PAVEMENT DELINEATION PLANS	
37-38	SUMMARY OF QUANTITIES	0
39-74	ELECTRICAL PLANS	
75-103	REVISED STANDARD PLAN	

STRUCTURE PLANS

104-107	AIRPORT WAY UC, Br No. 29-0300R
108-111	WILSON WAY UC, Br No. 29-0306R
112	CROSSTOWN FREEWAY VIADUCT

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



NO SCALE

Griff S. Gill 5-22-15
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

June 22, 2015

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

BORDER LAST REVISED 9/30/2012 CALTRANS WEB SITE IS: [HTTP://WWW.DOT.CA.GOV/](http://www.dot.ca.gov/)

RELATIVE BORDER SCALE	0	1	2
IS IN INCHES			

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USERNAME => s113541
DGN FILE => 1013000114ab001.dgn

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UNIT 1476

CONTRACT No.	10-0X9704
PROJECT ID	1013000114

05-05-15	DATE PLOTTED => 04-SEP-2013 TIME PLOTTED => 14:06
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LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

NOTES:

- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BBS	BATTERY BACKUP SYSTEM	Mtg	MOUNTING
BC	BOLT CIRCLE	MV	MERCURY VAPOR LIGHTING FIXTURE
BPB	BICYCLE PUSH BUTTON	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
C	CONDUIT	N	NEUTRAL (GROUNDED CONDUCTOR)
CB	CIRCUIT BREAKER	NB	NEUTRAL BUS
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSE
Ckt	CIRCUIT	NO	NORMALLY OPEN
CMS	CHANGEABLE MESSAGE SIGN	P	CIRCUIT BREAKER'S POLE
Ctid	CALTRANS IDENTIFICATION	PB	PULL BOX
Comm	COMMUNICATION	PBA	PUSH BUTTON ASSEMBLY
DLC	LOOP DETECTOR LEAD-IN CABLE	PEC	PHOTOELECTRIC CONTROL
EMS	EXTINGUISHABLE MESSAGE SIGN	Ped	PEDESTRIAN
EVUC	EMERGENCY VEHICLE UNIT CABLE	PEU	PHOTOELECTRIC UNIT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	PT	CONDUIT WITH PULL TAPE
FB	FLASHING BEACON	RE	RELOCATED EQUIPMENT
FBCA	FLASHING BEACON CONTROL ASSEMBLY	RM	RAMP METERING
FBS	FLASHING BEACON WITH SLIP BASE	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FO	FIBER OPTIC	SB	SLIP BASE
G	EQUIPMENT GROUNDING CONDUCTOR	SIC	SIGNAL INTERCONNECT CABLE
GB	GROUND BUS	Sig	SIGNAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMA	SIGNAL MAST ARM
HAR	HIGHWAY ADVISORY RADIO	SNS	STREET NAME SIGN
Hex	HEXAGONAL	SP	SERVICE POINT
HPS	HIGH PRESSURE SODIUM	TDC	TELEPHONE DEMARCATION CABINET
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TMS	TRAFFIC MONITORING STATION
ISL	INDUCTION SIGN LIGHTING	TOS	TRAFFIC OPERATIONS SYSTEM
LED	LIGHT EMITTING DIODE	Veh	VEHICLE
LMA	LUMINAIRE MAST ARM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
LPS	LOW PRESSURE SODIUM	WIM	WEIGH-IN-MOTION
Ltg	LIGHTING	Xfmr	TRANSFORMER
Lum	LUMINAIRE		
M	METERED		
MAT	MAST ARM MOUNTING TOP ATTACHMENT		
MAS	MAST ARM MOUNTING SIDE ATTACHMENT		

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4, 18.5	97	112

Theresa Gabriel

REGISTERED ELECTRICAL ENGINEER

July 19, 2013

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
OR AGENTS SHALL NOT BE RESPONSIBLE FOR
THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 6-22-15

SOFFIT AND WALL
MOUNTED LUMINAIRES

	PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
	FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
	WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
	EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
	EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:

Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES
CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A
DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4, 18.5	98	112

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 6-22-15

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B
DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

CONDUIT

NEW	EXISTING	
		LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
		TRAFFIC SIGNAL CONDUIT
		COMMUNICATION CONDUIT
		TELEPHONE CONDUIT
		FIRE ALARM CONDUIT
		FIBER OPTIC CONDUIT
		CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

SERVICE EQUIPMENT

NEW	EXISTING	
		OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
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FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

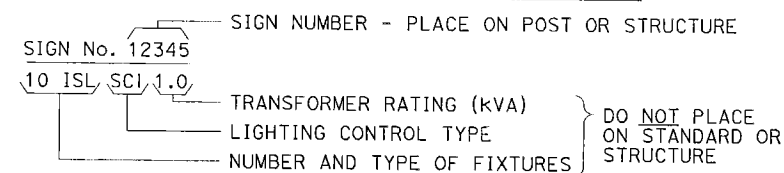
SIGNAL EQUIPMENT

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

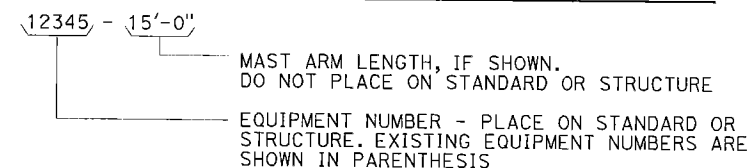
TO ACCOMPANY PLANS DATED 6-22-15

EQUIPMENT IDENTIFICATION

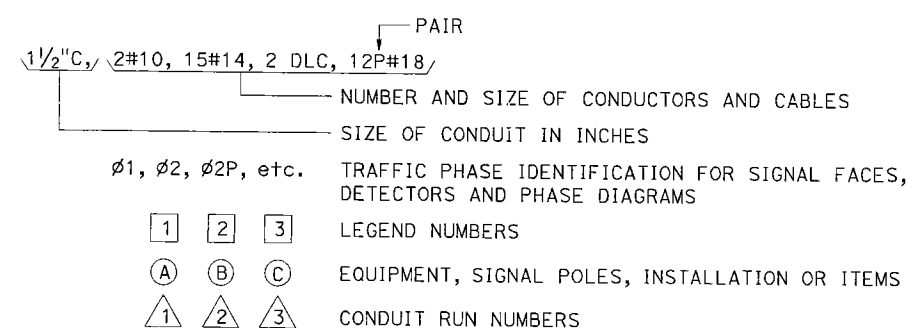
ILLUMINATED SIGN IDENTIFICATION NUMBER:



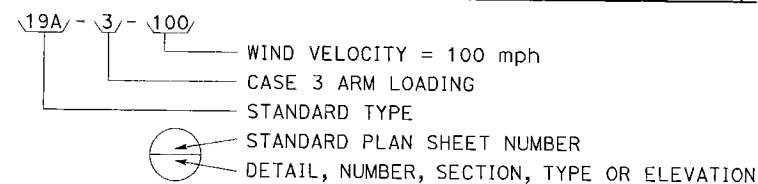
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



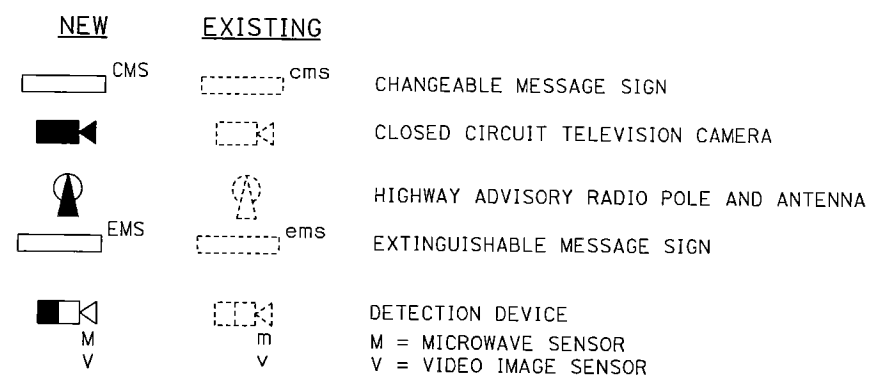
CONDUIT AND CONDUCTOR IDENTIFICATION:



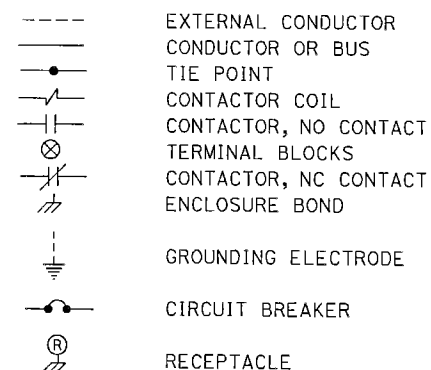
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



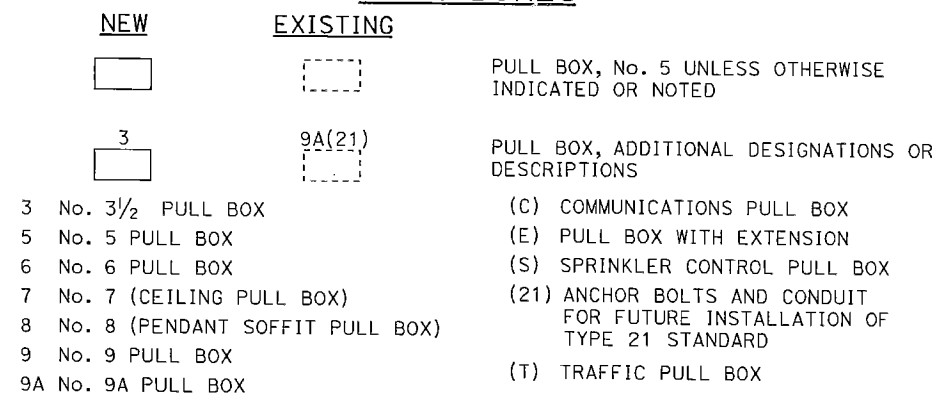
MISCELLANEOUS EQUIPMENT



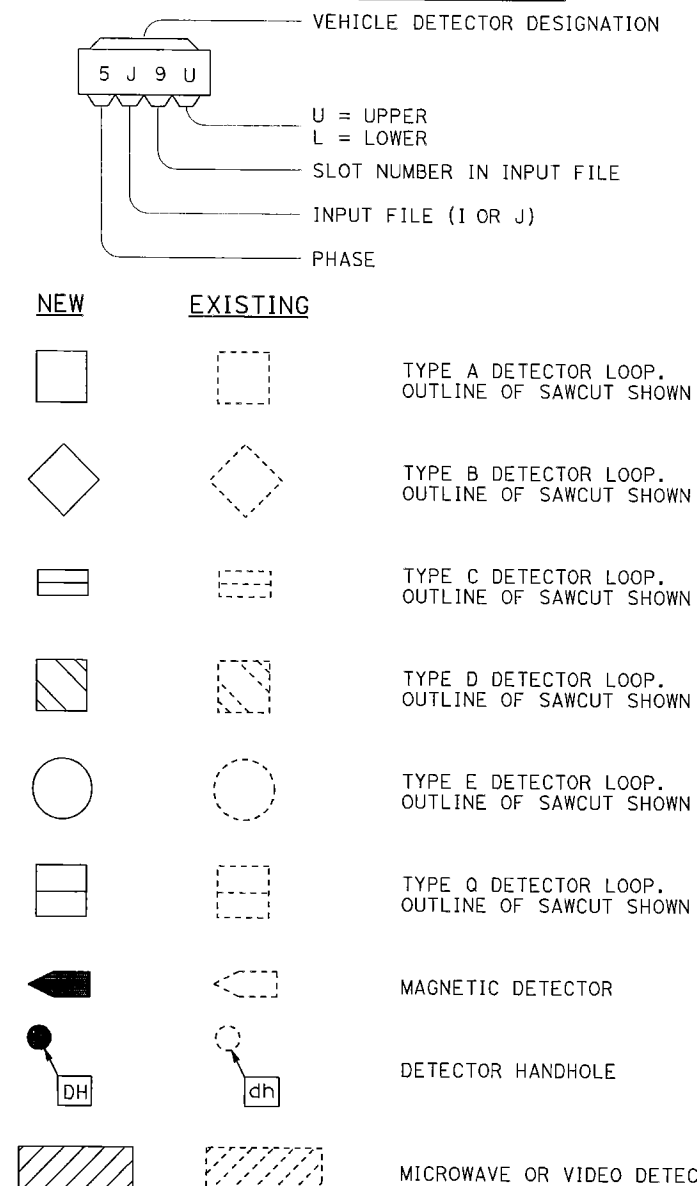
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C
DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
M+I	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm M+I	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THREE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THREE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
Tel	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
To+	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	
	U	
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	
	V	
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
	W	
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	
	X	
X Sec	CROSS SECTION	
Xing	CROSSING	
	Y	
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS
10	SJ	4,99	16.0/19.4, 18.5	75 112
Grace M. Tsushima REGISTERED CIVIL ENGINEER				
July 19, 2013 PLANS APPROVAL DATE				
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.				

TO ACCOMPANY PLANS DATED 6-22-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A	
SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B	
SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
ALI BAKHDOUN

CALCULATED-DESIGNED BY
CHECKED BY

JASPAL SINGH
PAUL MATOS

REVISOR
DATE

JS
6/18/15

LEGEND: (FOR SHEETS E-1 THRU E-23)

- 27 2"C, 2 DLC
- 28 2"C, 6 DLC
- 29 3"C, 12 DLC, 1-12 SMFO
- 30 2-3"C, 12 DLC, 2#6 (TMS), 1-12 SMFO
- 31 1½"C, 2#6 (TMS)
- 32 SEE LOOP DETECTOR IDENTIFICATION AND SPACING DETAILS A ON THIS SHEET.
- 33 Exist 2"C, 3#2 (EEE), 2#8 (Ltg), 2#8 (Sign Ltg), 2#10 (EMS), RC 2#10 (EMS) ADD 2#6 (TMS)
- 34 Exist 2"C, 3#2 (EEE)
- 35 Exist 2"C, 2#8 (Ltg), 2#8 (Sign Ltg), 2#10 (EMS), RC 2#10 (EMS) ADD 2#6 (TMS)
- 36 Exist 2"C, 2#8 (Ltg), 2#8 (Sign Ltg), 2#10 (EMS), RC 2#10 (EMS), ADD 2#6 (TMS), 6 DLC, 1-HYBRID CABLE
- 37 EACH LOOP DETECTOR MUST HAVE 5 TURNS
- 38 3"C, 3#3 (SUB PANEL)
- 39 2"C, 6 DLC, 1-HYBRID CABLE
- 40 2-3"C, 2#6 (TMS), 6 DLC, 1-HYBRID CABLE, 1-12 SMFO
- 41 INSTALL 40' WOOD POLE WITH TYPE H SERVICE PER PG&E REQUIREMENTS.
- 42 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

AMPERES	VOLTS	POLES	NAMEPLATE	METER
80	240	2	MAIN BREAKER	NO
50	120	1	CMS CABINET	NO
30	240	2	CMS LAMPS	NO
15	120	1	SPARE	NO
15	120	1	SPARE	NO

- 43 PB PER PG&E REQUIREMENTS.
- 44 Exist 2"C, 2#8 (Ltg), 2#10 (EMS), RC 2#10 (EMS)
- 45 Exist 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

Ct'id No. 10290990018560T

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN	YES	—
30	120	1	TMS	YES	—
30	120	1	FIBER	YES	—
15	120	1	SPARE	YES	66
—	—	6	SPACE	YES	—

Ct'id No. 10290990018560L

AMPERES	VOLTS	POLES	NAMEPLATE	METER	PHOTOELECTRIC CONTROL TYPE
100	240	2	MAIN	YES	—
30	240	2	HIGHWAY LIGHTING	YES	V
30	240	2	SIGN LIGHTING	YES	LC3
15	120	1	LIGHTING CONTROL	YES	—
30	240	2	SPARE	YES	—
—	—	6	SPACE	YES	—

- 46 Exist 2"C, 2#8 (Ltg), 2#6 (TMS), 2#6 (FIBER), ADD 2#8 (CCTV), 2#8 (SIGN Ltg)
- 47 2"C, 2#8 (CCTV), 2#8 (SIGN Ltg)
- 48 Exist 2"C, 2#6 (TMS)
- 49 Exist 2"C, 2#6 (FIBER)
- 50 Exist MODEL 334L CABINET FOR TMS
- 51 Exist MODEL 344LX CABINET FOR FIBER HUB
- 52 2"C, 2#8 (SIGN Ltg), 1-HYBRID CABLE
- 53 2-2"C, 2#8 (CCTV), 1-HYBRID CABLE, 1-12 SMFO
- 54 MODEL 334L CABINET FOR CCTV. FURNISH AND INSTALL VIDEO ENCODER UNIT AND CAMERA CONTROL UNIT.
- 55 TYPE CCTV 15 POLE WITH CAMERA ASSEMBLY ON TOP OF Exist OH SIGN POST.
- 56 SPLICE VAULT PER DETAILS ON SHEET E-31.
- 57 FIBER OPTIC CONDUIT PER DETAILS ON SHEET E-32.
- 58 FIBER OPTIC CONDUIT THROUGH STRUCTURE, SEE STRUCTURE PLAN FOR DETAILS.
- 59 Exist SPLICE VAULT.
- 60 COIL 50' OF FIBER OPTIC CABLES IN THE SV. ENDS OF THE FIBERS MUST BE PROTECTED WITH SPLICE ENCLOSURE.
- 61 COIL 15' OF 1-48 FIBER OPTIC CABLE IN THE PB. ENDS OF THE FIBERS MUST BE PROTECTED WITH SPLICE TRAY.
- 62 TERMINATE FIBER OPTIC CABLES IN FDU AS SHOWN ON SHEET E-30.
- 63 TERMINATE FIBER OPTIC CABLES IN FDU AS SHOWN ON SHEET E-29.
- 64 2"C, 2#6 (TMS), 6 DLC, 1-HYBRID CABLE
- 65 RENUMBER OH SIGN AS SHOWN.
- 66 RC Exist CB AND NAME PLATE, INSTALL 30 AMPERE, 120 V, 1P CIRCUIT BREAKER AND "CCTV" NAME PLATE.
- 67 DEPARTMENT-FURNISHED MODEL 344LX CABINET FOR FIBER HUB. SEE SHEET E-33 FOR FOUNDATION DETAILS.
- 68 COIL 200' OF FIBER OPTIC CABLES IN THE SV. ENDS OF THE FIBERS MUST BE PROTECTED WITH SPLICE ENCLOSURE.
- 69 USE DIRECTIONAL BORING METHOD TO INSTALL CONDUIT UNDER PAVEMENT.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	40	112

Jaspal Singh

REGISTERED ELECTRICAL ENGINEER DATE 5-26-15

6-22-15

PLANS APPROVAL DATE

No. 16657

Exp. 6/30/16

ELECTRICAL

STATE OF CALIFORNIA

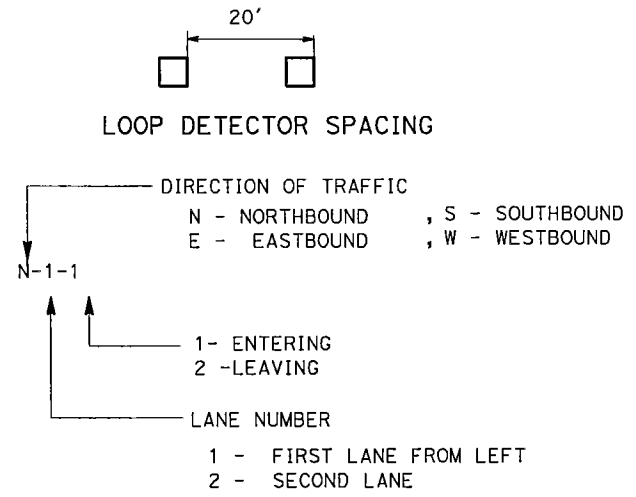
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ABBREVIATIONS:

- PG&E - PACIFIC GAS AND ELECTRIC
- EEE - ELECTRICAL EQUIPMENT ENCLOSURE
- HDPE - HIGH DENSITY POLYETHYLENE
- SMFO - SINGLE MODE FIBER OPTIC CABLE
- SV - SPLICE VAULT
- DFM - DEPARTMENT-FURNISHED MATERIAL
- (2E) - PULL BOX WITH TWO EXTENSIONS

SYMBOLS:

- V SPLICE VAULT
- Ⓜ Exist PUMP MOTOR



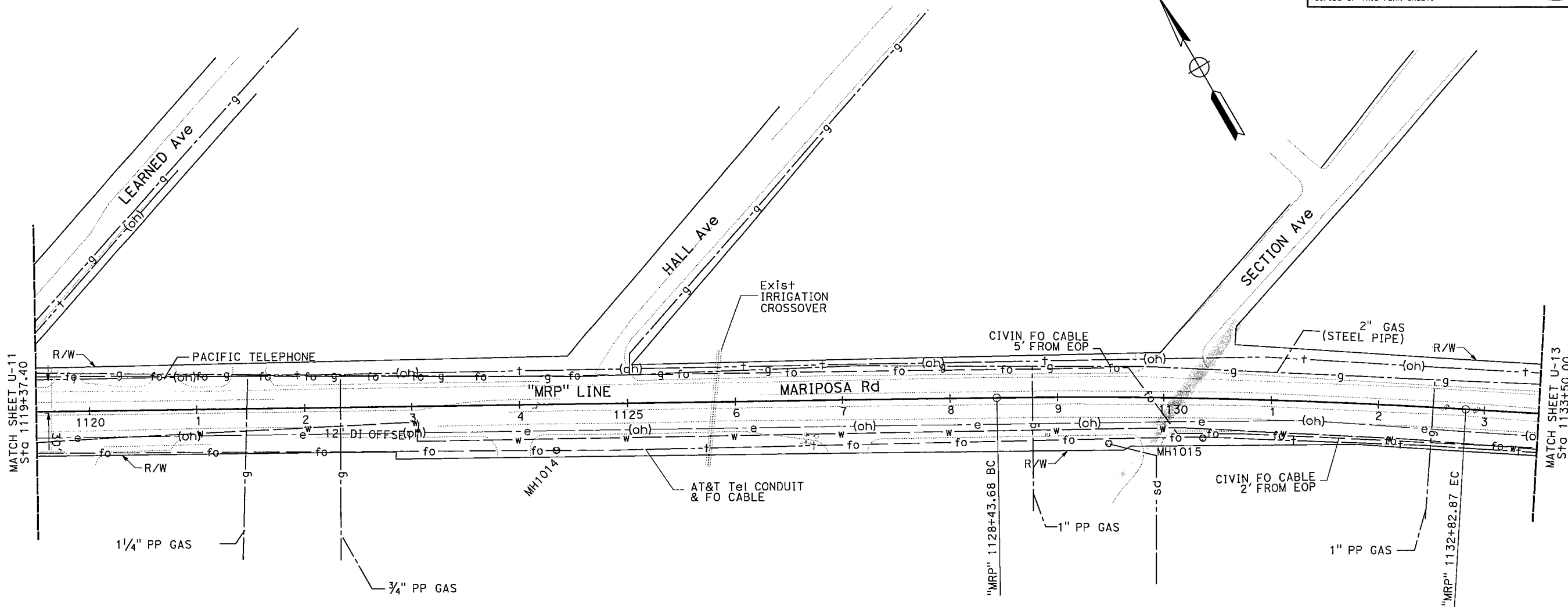
LOOP DETECTOR IDENTIFICATION
DETAIL A

LEGEND, ABBREVIATIONS AND SYMBOLS
E-2

LAST REVISION DATE PLOTTED => 04-SEP-2015
00-00-00 TIME PLOTTED => 14:07

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. NOT ALL UTILITIES ARE SHOWN ON THE PLANS.



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	24	112

Gurjot S. Gill

5-22-15

REGISTERED CIVIL ENGINEER

DATE

6-22-15

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

GURJOT GILL

No. 71647

Exp. 12-31-15

CIVIL

STATE OF CALIFORNIA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

U-12

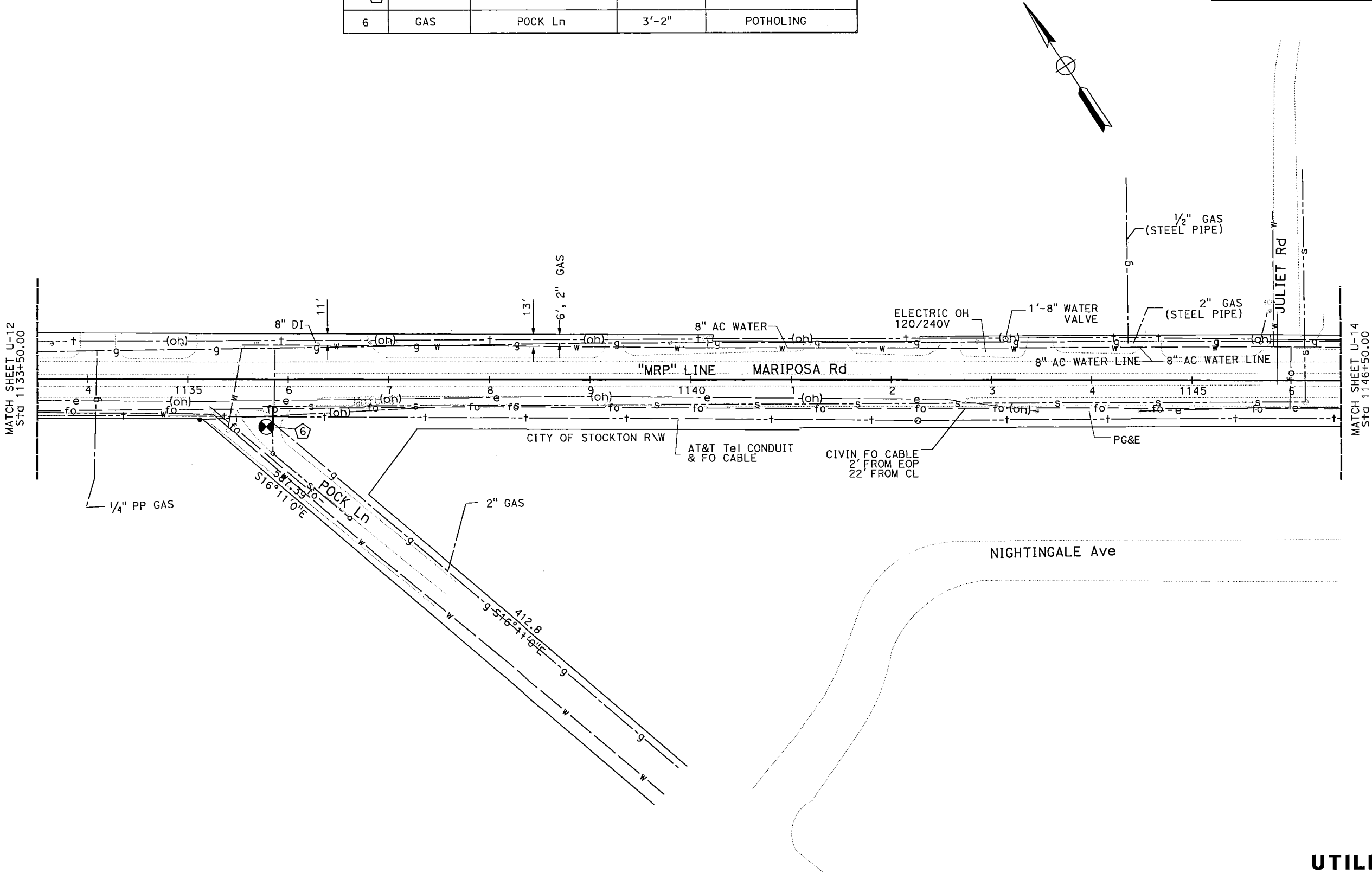
SCALE: 1"=50'

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. NOT ALL UTILITIES ARE SHOWN ON THE PLANS.

POSITIVE LOCATION INFORMATION

No	UTILITY	LOCATION	DEPTH	METHOD
6	GAS	POCK Ln	3'-2"	POTHOLING



Dist

COUNTY

ROUTE

POST MILES
TOTAL PROJECT

SHEET
No.

TOTAL
SHEETS

10

SJ

4,99

16.0/19.4,18.5

25

112

Gurjot S. Gill

5-22-15

REGISTERED CIVIL ENGINEER

DATE

6-22-15

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

GURJOT GILL

No. 71647

Exp. 12-31-15

CIVIL

STATE OF CALIFORNIA

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
U-13

SCALE:1"=50'

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. NOT ALL UTILITIES ARE SHOWN ON THE PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	27	112

Gurjot Gill

5-22-15

REGISTERED CIVIL ENGINEER

DATE

6-22-15

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

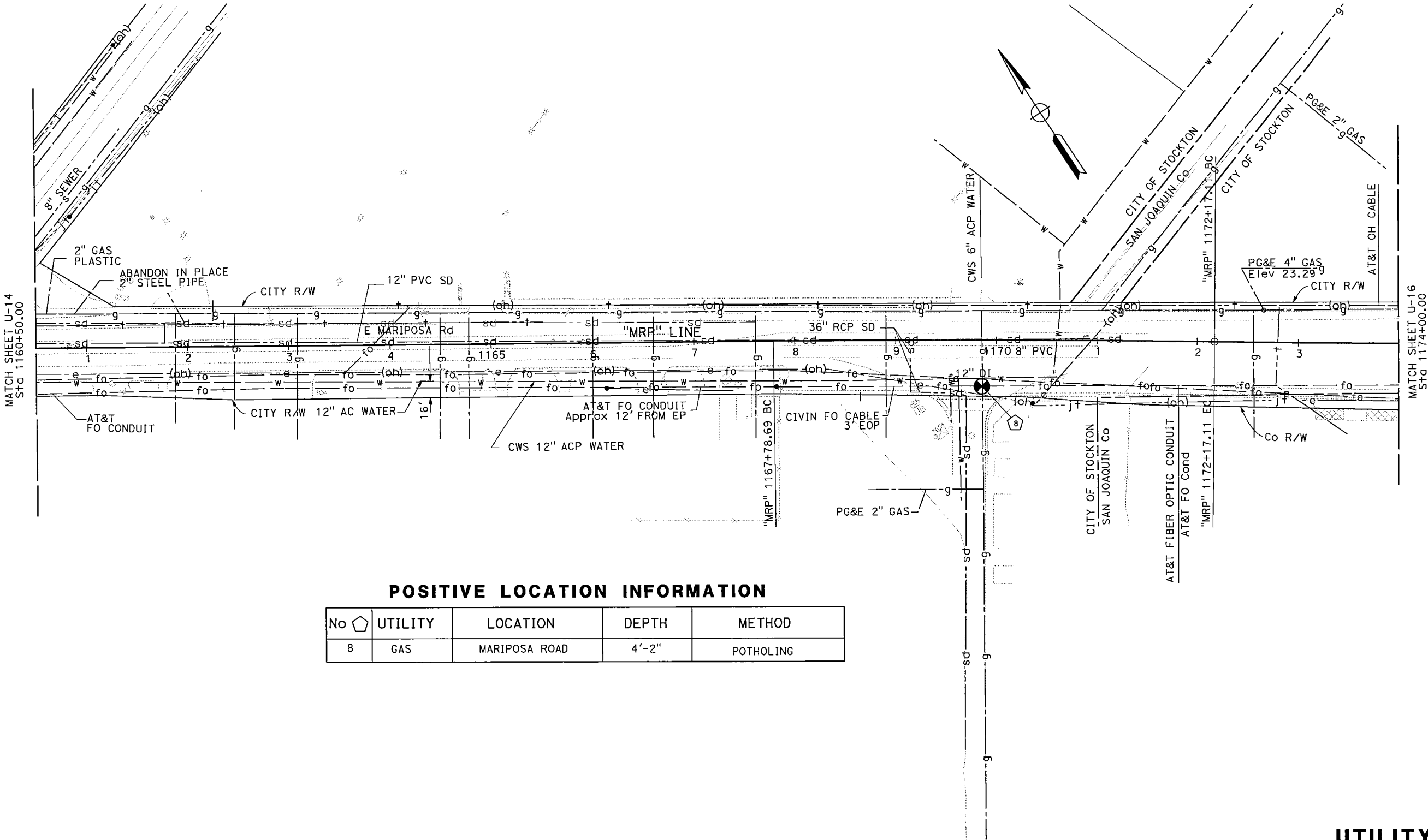
GURJOT GILL

No. 71647

Exp. 12-31-15

CIVIL

STATE OF CALIFORNIA



POSITIVE LOCATION INFORMATION

No	UTILITY	LOCATION	DEPTH	METHOD
8	GAS	MARIPOSA ROAD	4'-2"	POTHOLING

UTILITY PLAN

U-15

SCALE: 1"=50'

APPROVED FOR UTILITY INFORMATION ONLY

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND SYMBOLS SEE SHEET E-1 AND E-2.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	56	112

Jaspal Singh

5-26-15

REGISTERED ELECTRICAL ENGINEER DATE

6-22-15

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER

JASPAL SINGH

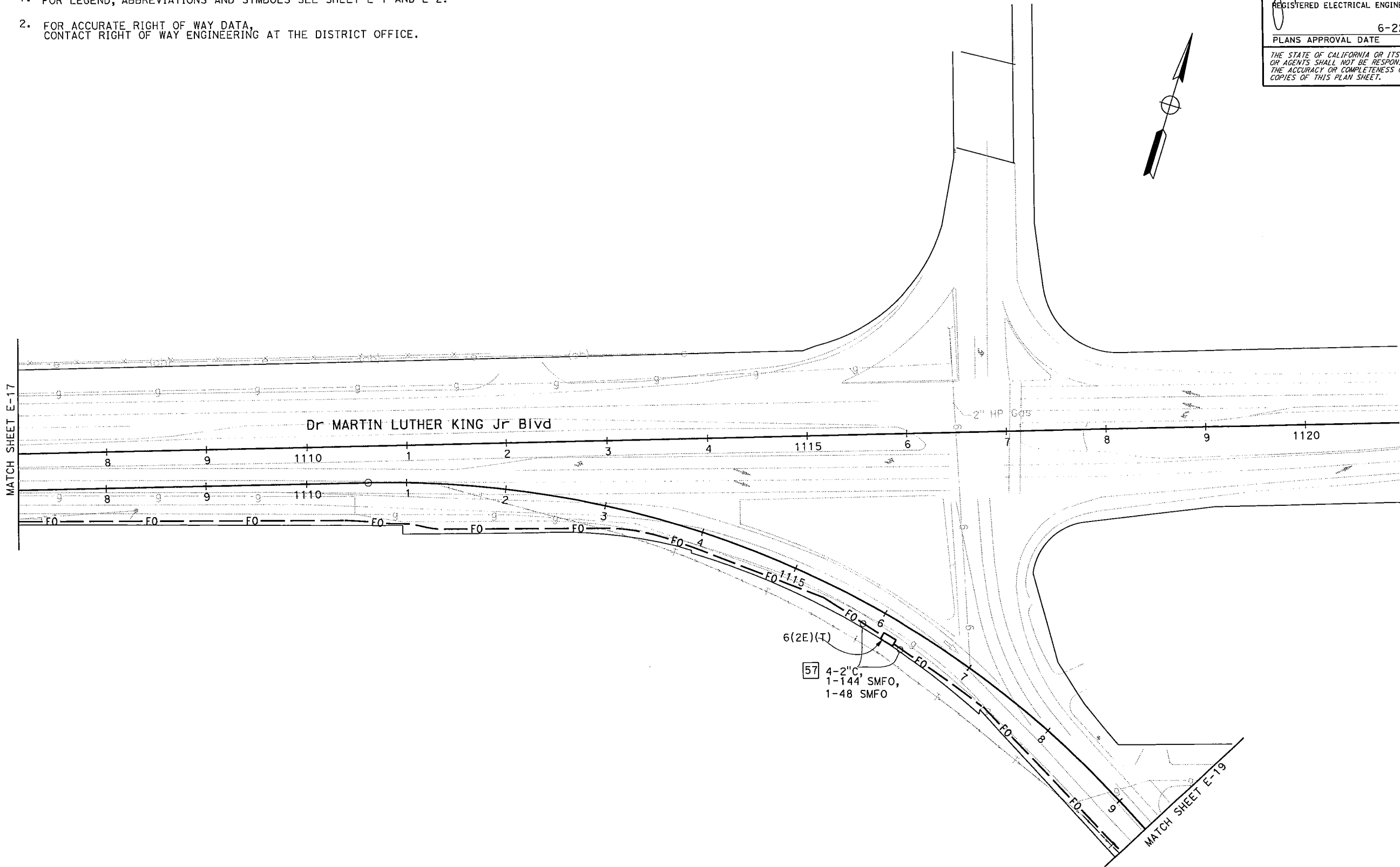
No. 16657

Exp. 6/30/16

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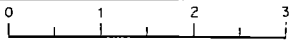


APPROVED FOR ELECTRICAL WORK ONLY

FIBER OPTIC SYSTEM

SCALE: 1"=50'

E-18



NOTES:

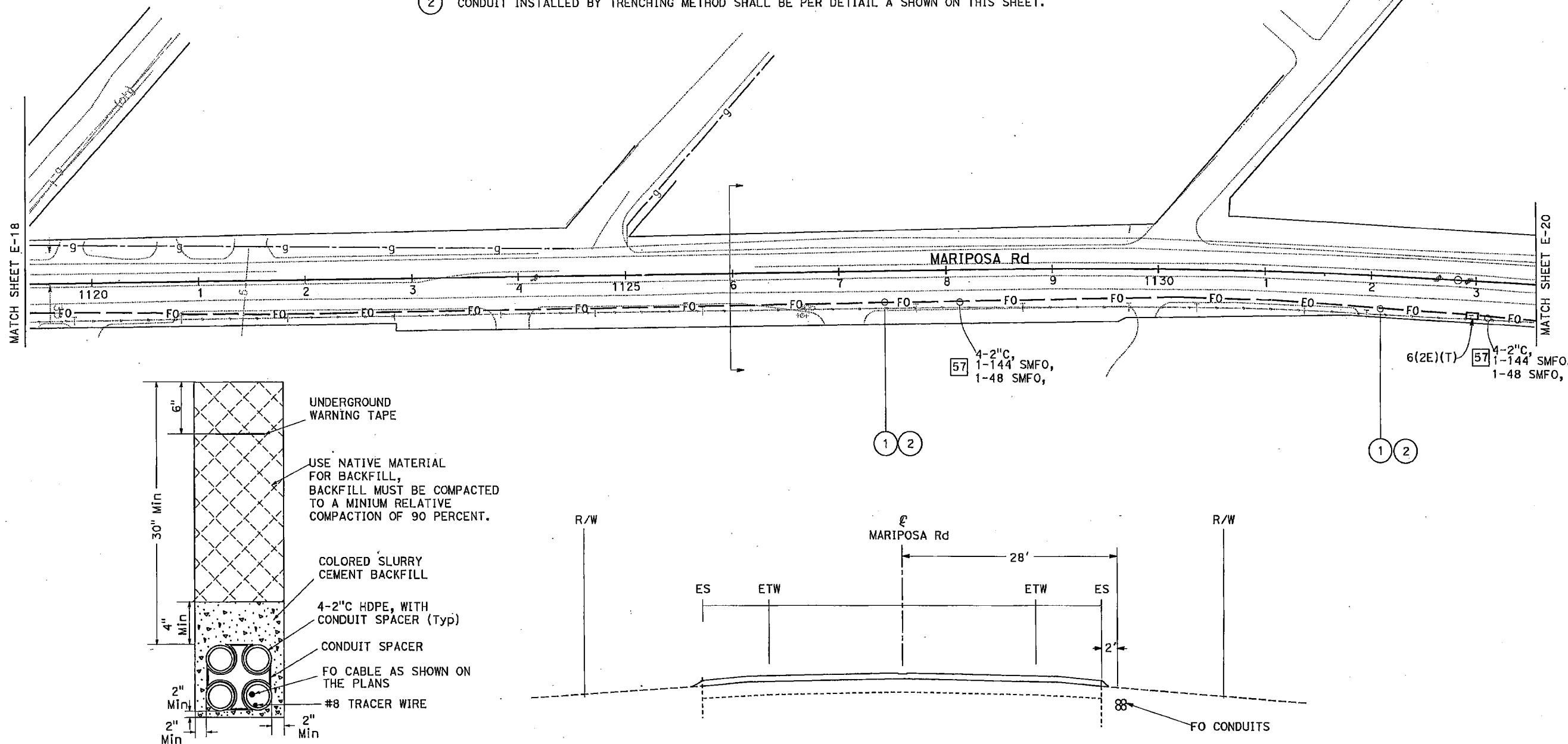
- FOR LEGEND, ABBREVIATIONS AND SYMBOLS SEE SHEET E-1 AND E-2.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES: (ENCROACHMENT PERMIT FOR SHEET E-19 TO E-21)

- FIBER OPTIC CONDUITS BETWEEN S+1126 AND S+1149 SHALL BE INSTALLED @ 28' FROM CENTRE LINE OR 2' FROM ES OF MARIPOSA Rd.
- CONDUIT INSTALLED BY TRENCHING METHOD SHALL BE PER DETAIL A SHOWN ON THIS SHEET.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	57	XX

REGISTERED ELECTRICAL ENGINEER DATE: 5-26-15
PLANS APPROVAL DATE: X-X-X
JASPAL SINGH
No. 16657
EXP. 6/30/16
ELECTRICAL
STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TRENCH IN DIRT DETAIL
4-2" C HDPE CONDUIT
DETAIL A

APPROVED FOR ELECTRICAL WORK ONLY

FIBER OPTIC SYSTEM

SCALE: 1"=50'

E-19

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND SYMBOLS SEE SHEET E-1 AND E-2.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	59	112

Jaspal Singh

5-26-15

REGISTERED ELECTRICAL ENGINEER DATE

6-22-15

PLANS APPROVAL DATE

JASPAL SINGH

No. 16657

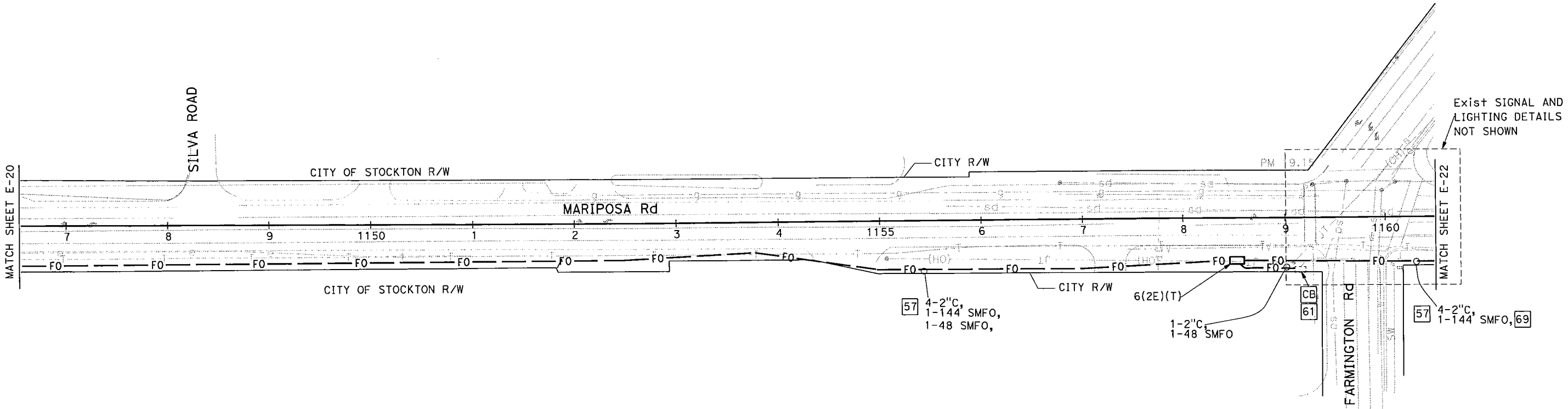
Exp. 6/30/16

ELECTRICAL

REGISTERED PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

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APPROVED FOR ELECTRICAL WORK ONLY

FIBER OPTIC SYSTEM
E-21

SCALE: 1"=50'

NOTES:

1. FOR LEGEND, ABBREVIATIONS AND SYMBOLS SEE SHEET E-1 AND E-2.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4,18.5	60	112

Jaspal Singh

REGISTERED ELECTRICAL ENGINEER

DATE 5-26-15

PLANS APPROVAL DATE 6-22-15

REGISTERED PROFESSIONAL ENGINEER

JASPAL SINGH

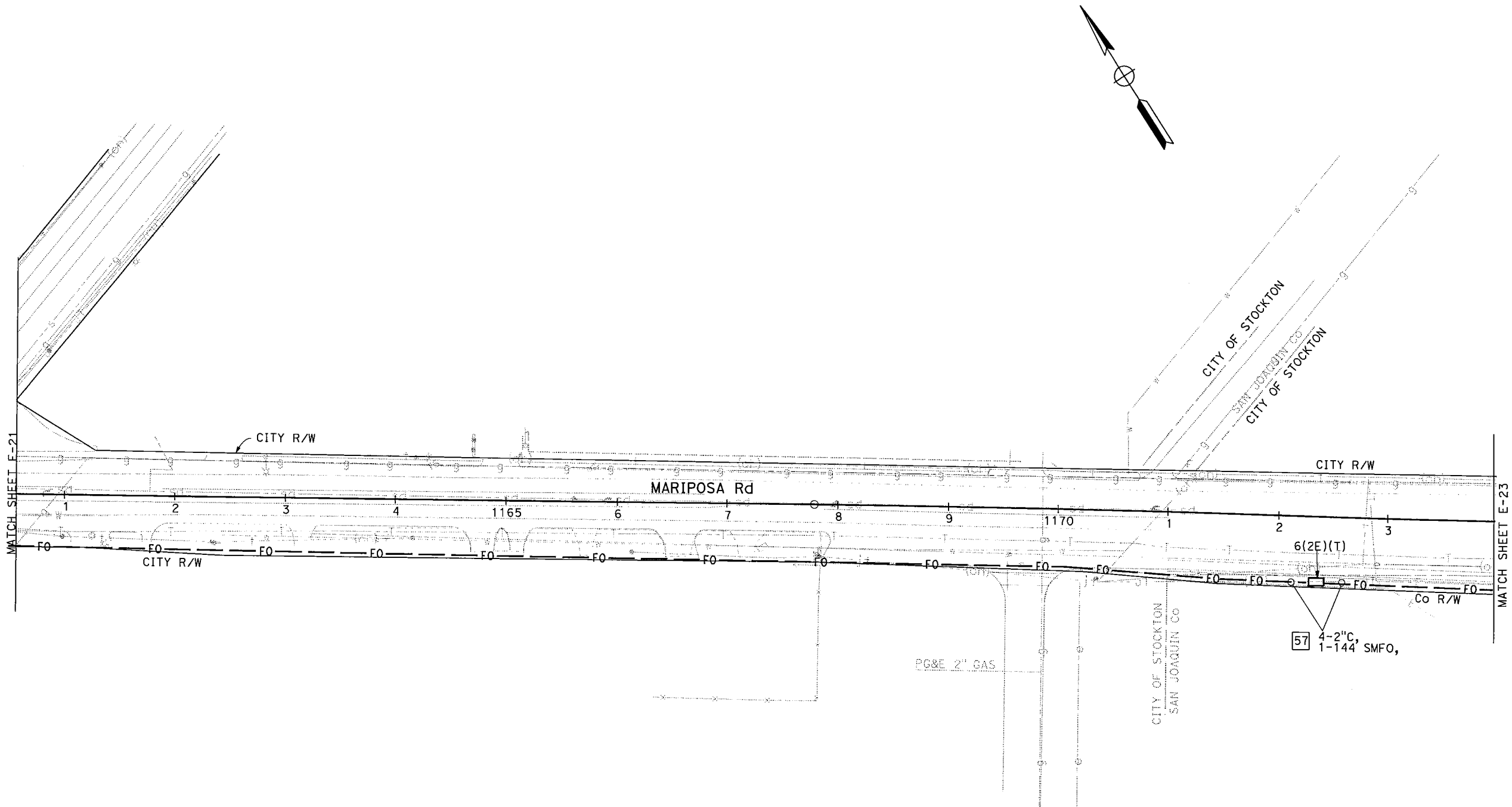
No. 16657

Exp. 6/30/16

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APPROVED FOR ELECTRICAL WORK ONLY

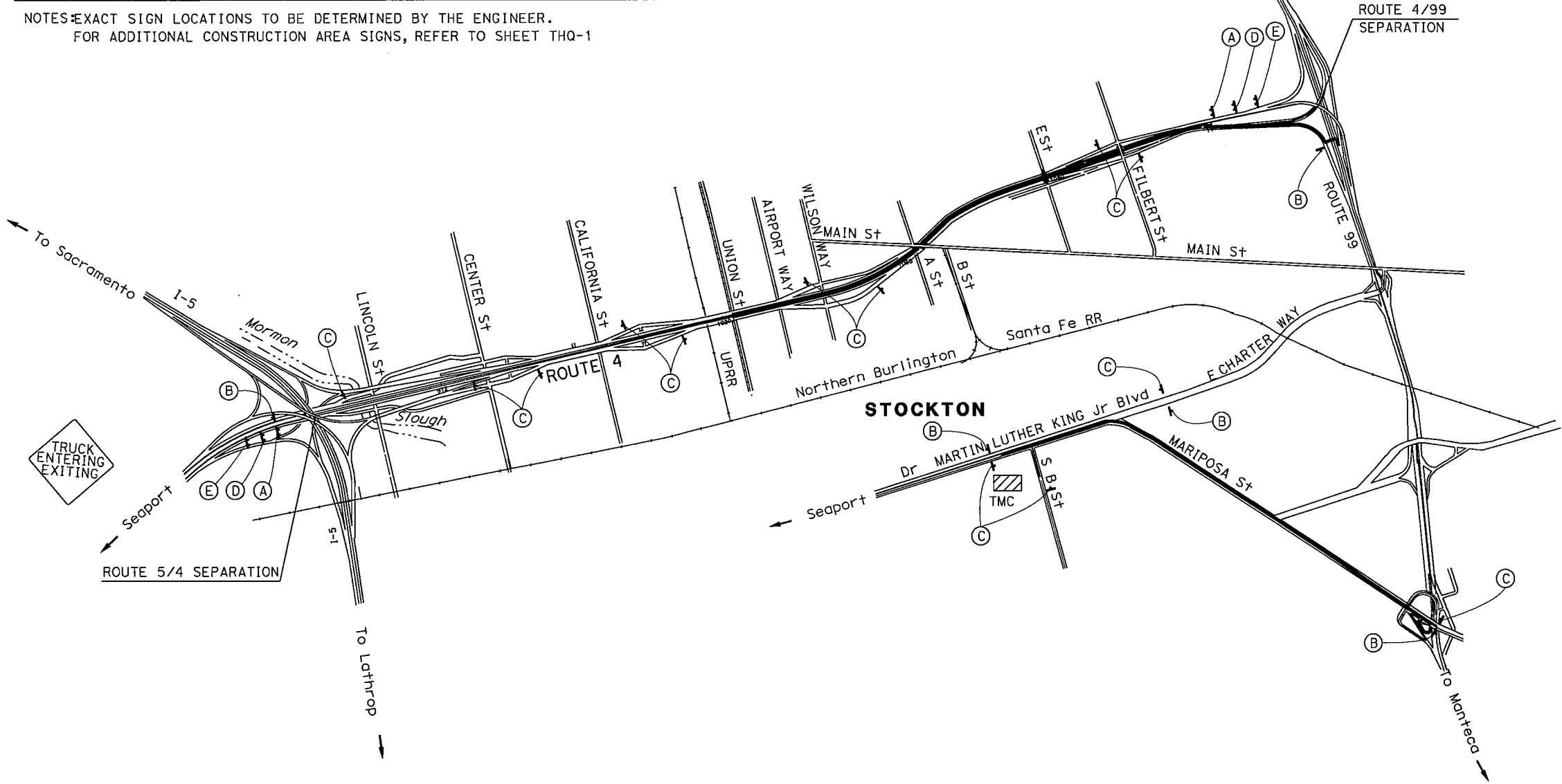
FIBER OPTIC SYSTEM
E-22

SCALE: 1"=50'

STATIONARY MOUNTED
CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	NUMBER OF SIGNS
(A)	W20-1	60" x 60"	ROAD WORK AHEAD	2 - 6" x 6"	2
(B)	C14 (CA)	48" x 24"	END ROAD WORK	1 - 4" x 6"	5
(C)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	13
(D)	C40 (CA)	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	2
(E)	G20-1	90" x 48"	ROAD WORK NEXT 3 MILES	2 - 6" x 6"	2

NOTES: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET THQ-1



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4	16.0/19.4, 18.5	29	112

Amarjit S. Dhillon 04/08/15
REGISTERED CIVIL ENGINEER DATE

6-22-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
AMARJIT S. DHILLON
No. 67458
Exp. 6/30/17
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

06 - TRAFFIC DESIGN

06-TRANS

FUNCTIONAL SUPERVISOR

MOHAMMED QATANI

CALCULATED-DESIGNED BY

CHECKED BY

HASSAN TAHA

SANDY LE

REVISED BY

DATE REVISED

NOTE:

FOR ADDITIONAL CONSTRUCTION AREA SIGNS, REFER TO SHEET CS-1.

STATIONARY MOUNTED
CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING)

SHEET No.	SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE
TH-1	1-1	W21-5bL	LEFT SHOULDER CLOSED AHEAD	48" x 48"	1 - 6" x 6"
		C40(CA)	TRUCKS ENTERING EXITING	48" x 48"	
TH-2	2-1	C30A (CA)	SHOULDER CLOSED	48" x 48"	1 - 6" x 6"
	2-2	W1-4	CURVE ARROW (R)	48" x 48"	1 - 6" x 6"
	2-3	W1-4	CURVE ARROW (R)	48" x 48"	1 - 6" x 6"
TH-3	3-1	W1-4	CURVE ARROW (L)	48" x 48"	1 - 6" x 6"
	3-2	W1-4	CURVE ARROW (L)	48" x 48"	1 - 6" x 6"
TH-4	4-1	W21-5bL	LEFT SHOULDER CLOSED AHEAD	48" x 48"	1 - 6" x 6"
	4-2	C30A (CA)	SHOULDER CLOSED	48" x 48"	1 - 6" x 6"
	4-3	W21-5bL	LEFT SHOULDER CLOSED AHEAD	48" x 48"	1 - 6" x 6"
	4-4	C30A (CA)	SHOULDER CLOSED	48" x 48"	1 - 6" x 6"
		C40(CA)	TRUCKS ENTERING EXITING	48" x 48"	

TEMPORARY PAVEMENT DELINEATION QUANTITIES

SHEET No.	LOCATION Sta TO Sta	DETAIL No.	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE		Temp TRAFFIC STRIPE (TAPE)	Temp PAVEMENT MARKER
				WHITE	YELLOW (HAZARDOUS WASTE)		
TH-2 To TH-3	1022+40 TO 1041+45 (X2)	12	82	3,810		953	82
	1022+40 TO 1041+45	27B		1,905		1,905	
	1022+40 TO 1041+45	25	41		1,905	1,905	41
	1022+40 TO 1025+68	38	15	328			
	1025+68 TO 1028+50	36	26	1128			
	1022+40 TO 1026+12	38				372	17
	1026+12 TO 1028+50 (X2)	36				952	44
TOTAL			164	7171	1,905	6,087	184

Dist

COUNTY

ROUTE

POST MILES TOTAL PROJECT

SHEET No.

TOTAL SHEETS

10

SJ

4

16.0/19.4,18.5

34

112

Hassan M. Cohe

03-13-15

REGISTERED CIVIL ENGINEER

DATE

6-22-15

S APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS SHEET.

REGISTERED PROFESSIONAL ENGINEER

HASSAN M. TAHA

No. 60130

Exp. 08/30/19

CIVIL

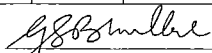
STATE OF CALIFORNIA

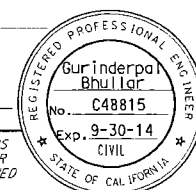
TRAFFIC HANDLING QUANTITIES

SHEET No.	LOCATION	TEMPORARY RAILING (TYPE K)	CHANNELIZER (SURFACE MOUNTED)	TEMPORARY CRASH CUSHION MODULE
		LF	EA	EA
TH-2			3	
TH-2	Sta 1021+60 TO Sta 1024+20	260	37	42
	Sta 1021+00 TO Sta 1023+60	260		
TH-2 TO TH-3	Sta 1026+00 TO Sta 1038+00	1200	14	28
TH-4	Sta 1104+26 TO Sta 1108+26	400		
	Sta 1103+50 TO Sta 1107+70	420		
TOTAL		2540	54	70

TRAFFIC HANDLING QUANTITIES
THQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4, 18.5	90	112


REGISTERED CIVIL ENGINEER



July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 6-22-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile
speed prior to work starting, or the anticipated
operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where
there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

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

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent
and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance
purposes only, and should be applied with engineering judgment.
These distances should be adjusted by the Engineer for field conditions,
if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES
FOR LANE AND RAMP CLOSURES

NO SCALE

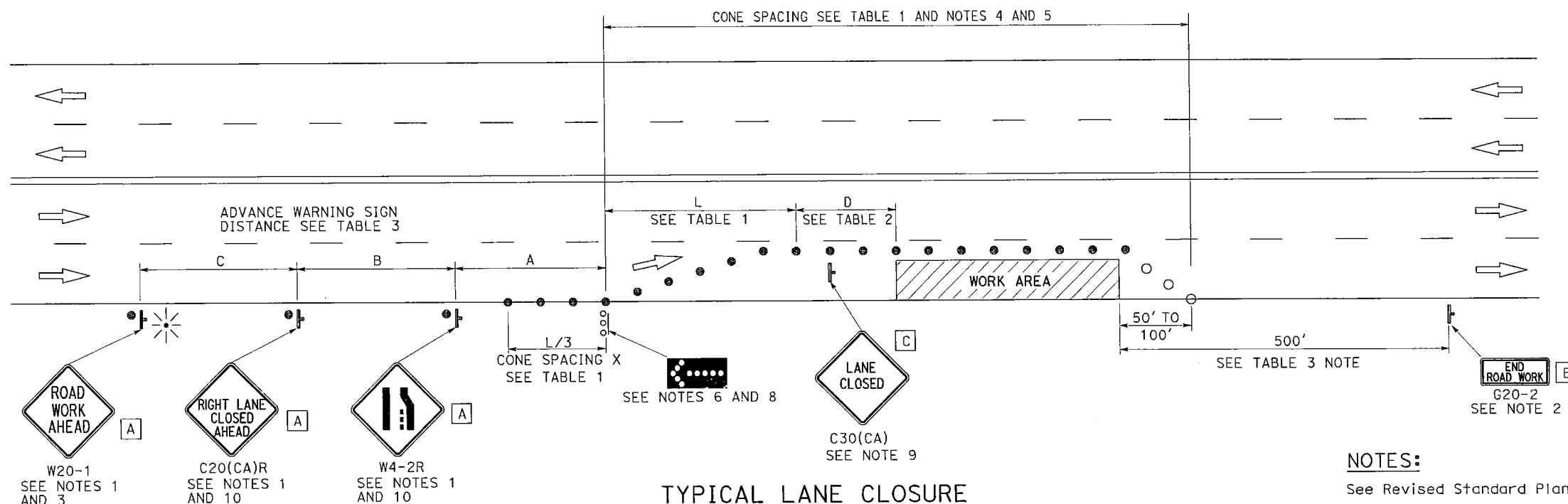
RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013
THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4, 18.5	93	112

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
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TO ACCOMPANY PLANS DATED 6-22-15



NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background. California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.

- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ★ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION **TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	4,99	16.0/19.4, 18.5	94	112

Devinder Singh
REGISTERED CIVIL ENGINEER

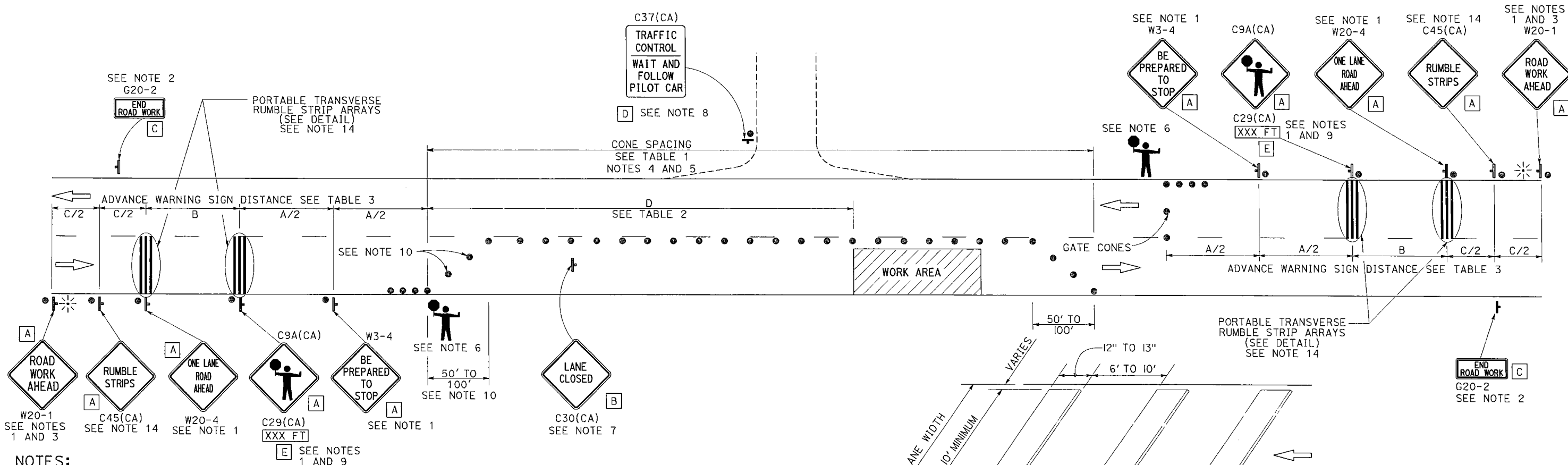
October 17, 2014
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Devinder Singh
No. C50470
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 6-22-15



NOTES:

- Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
- When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

PORTABLE TRANSVERSE RUMBLE STRIP ARRAY DETAIL

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
TWO LANE CONVENTIONAL
HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014
AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED
MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13