

INDEX OF PLANS

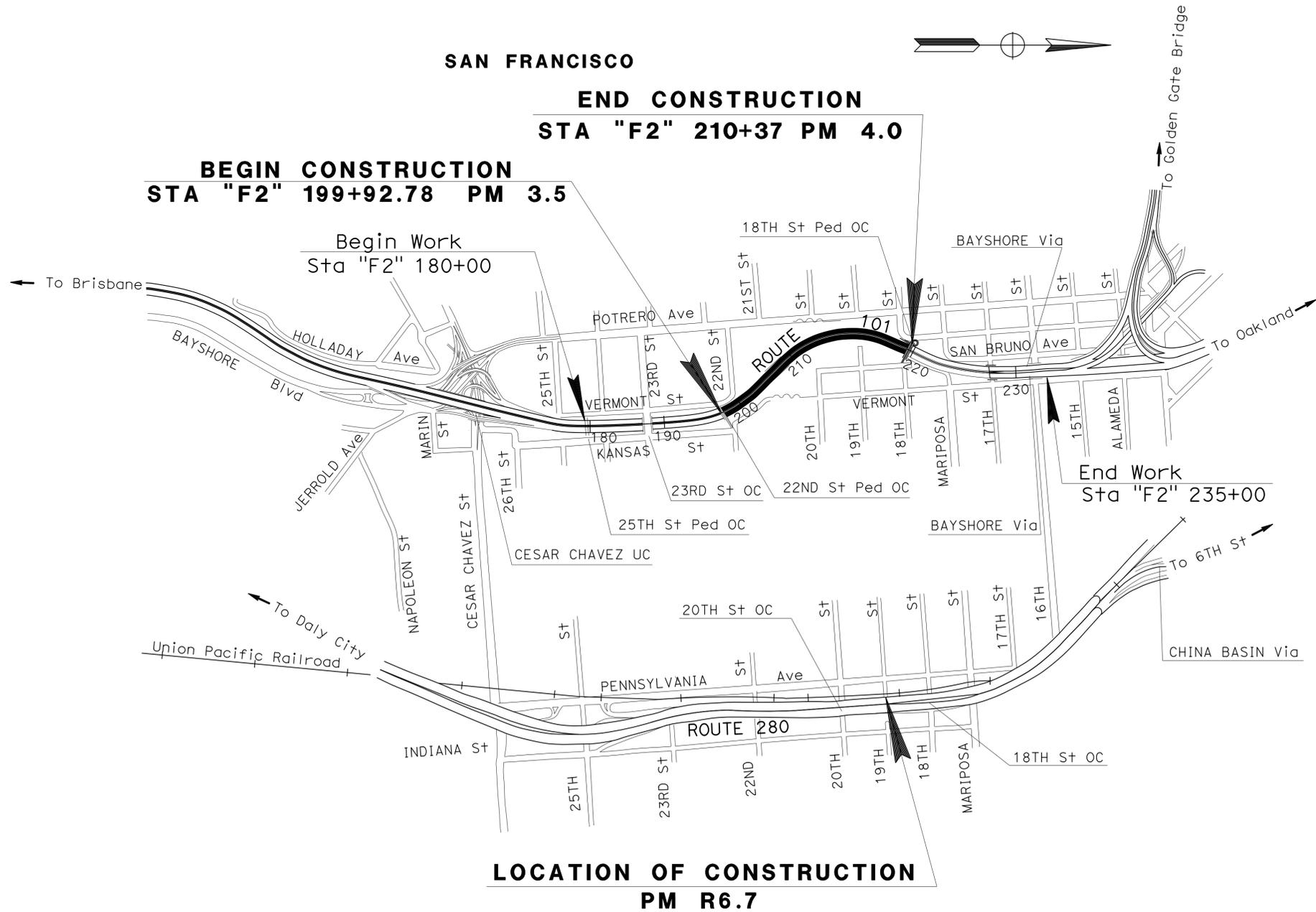
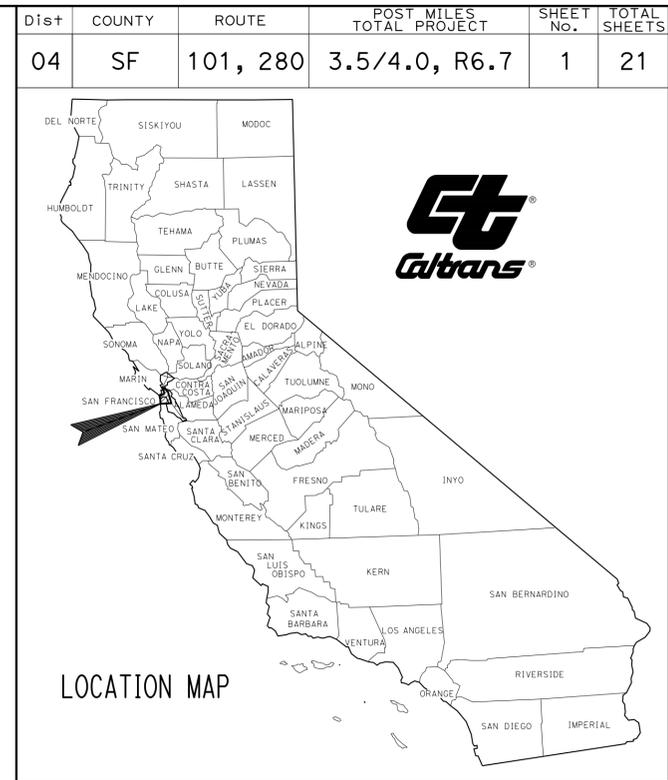
SHEET No.	DESCRIPTION
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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN THE CITY AND COUNTY OF SAN FRANCISCO
ON ROUTE 101 FROM 22ND STREET PEDESTRIAN OVERCROSSING
TO 18TH STREET PEDESTRIAN OVERCROSSING
AND ON ROUTE 280 AT 0.1 MILE NORTH OF
20TH STREET OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



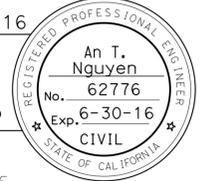
PROJECT MANAGER
AL B. LEE

DESIGN MANAGER
ARLISSA PANG

An T. Nguyen 2-16-16
PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE

February 29, 2016
PLANS APPROVAL DATE

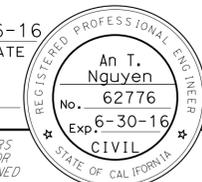
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THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

CONTRACT No. **04-1J6904**
PROJECT ID **0414000333**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	2	21
				2-16-16	DATE
		REGISTERED CIVIL ENGINEER			
		PLANS APPROVAL DATE		2-29-16	
<small>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.</small>					

NOTE:

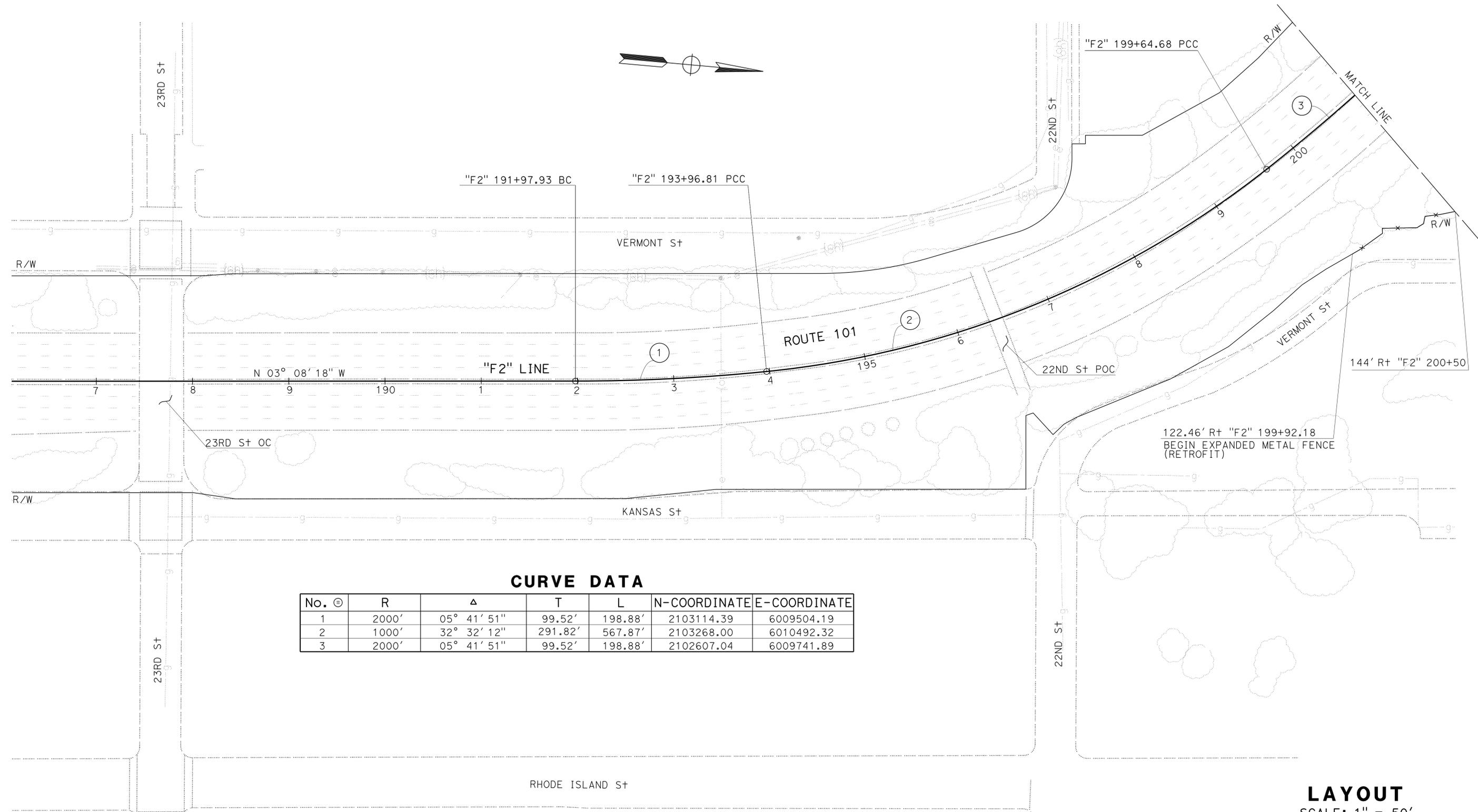
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTE:

COORDINATE VALUES SHOWN ARE CCS 83 ZONE 3.

LEGEND:

(No.) CURVE DATA NUMBER



CURVE DATA

No. Ⓣ	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2000'	05° 41' 51"	99.52'	198.88'	2103114.39	6009504.19
2	1000'	32° 32' 12"	291.82'	567.87'	2103268.00	6010492.32
3	2000'	05° 41' 51"	99.52'	198.88'	2102607.04	6009741.89

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: AL B. LEE
 CALCULATED/DESIGNED BY: NICOLETA L. PASCUA
 CHECKED BY: AN NGUYEN
 REVISED BY: NLP
 DATE REVISED: 1-29-16

LAYOUT
SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: AL B. LEE
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 NICOLETA L. PASCUA
 AN NGUYEN
 REVISED BY: NLP
 DATE REVISED: 1-29-16

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

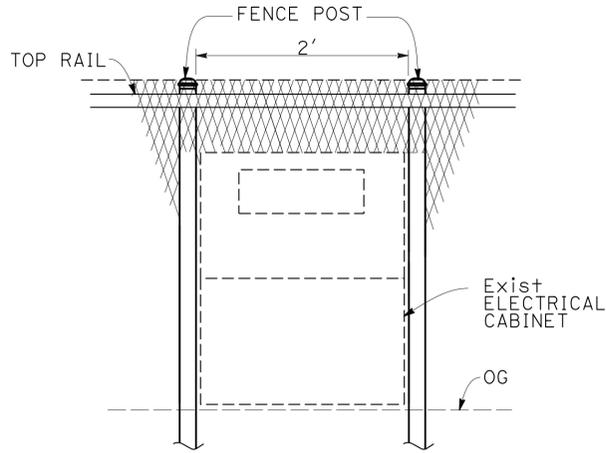
No. ①	R	Δ	T	L	N-COORDINATE	E-COORDINATE
3	2000'	05° 41' 51"	99.52'	198.88'	2102607.04	6009741.89
4	2000'	05° 41' 51"	99.52'	198.88'	2105637.95	6012356.49
5	1000'	63° 54' 46"	623.81'	1115.49'	2104977.00	6011606.06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	3	21

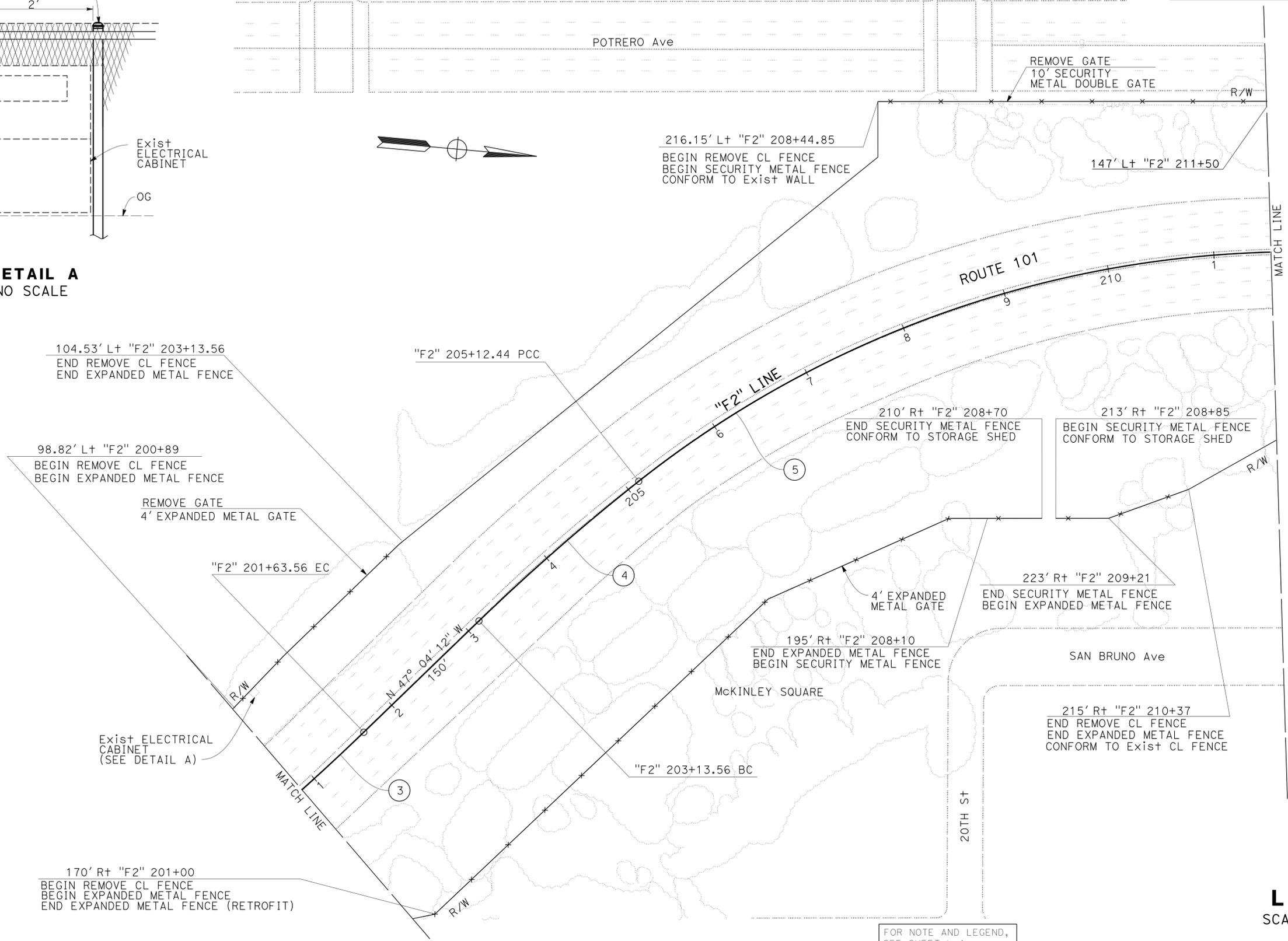
An T. Nguyen
 REGISTERED CIVIL ENGINEER
 No. 62776
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

2-16-16
 DATE
 2-29-16
 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.



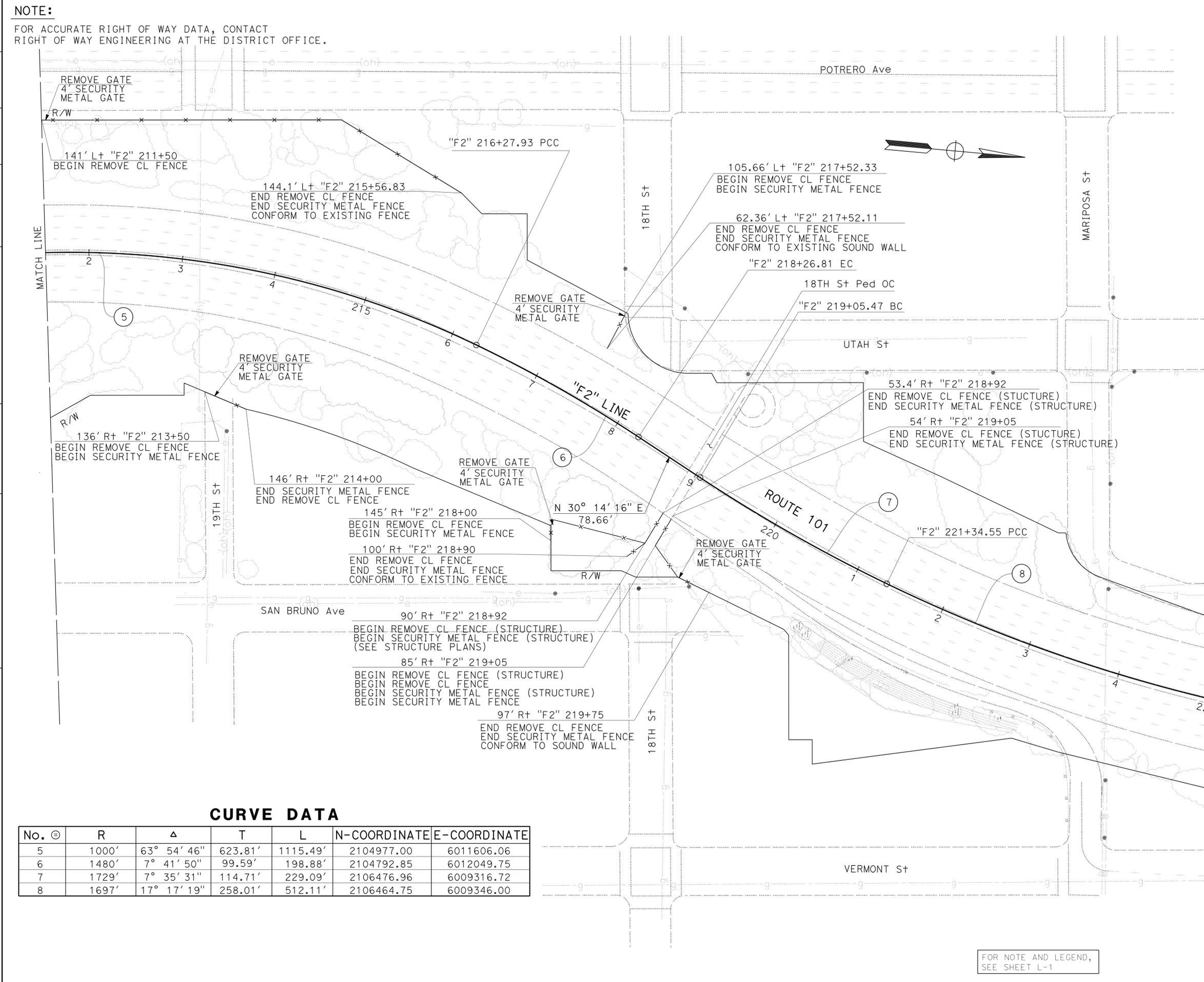
DETAIL A
 NO SCALE



FOR NOTE AND LEGEND,
 SEE SHEET L-1

LAYOUT
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN



CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
5	1000'	63° 54' 46"	623.81'	1115.49'	2104977.00	6011606.06
6	1480'	7° 41' 50"	99.59'	198.88'	2104792.85	6012049.75
7	1729'	7° 35' 31"	114.71'	229.09'	2106476.96	6009316.72
8	1697'	17° 17' 19"	258.01'	512.11'	2106464.75	6009346.00

NOTE:
 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
04	SF	101, 280	3.5/4.0, R6.7	4	21

An T. Nguyen 2-16-16
 REGISTERED CIVIL ENGINEER DATE
 2-29-16
 PLANS APPROVAL DATE

An T. Nguyen
 No. 62776
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

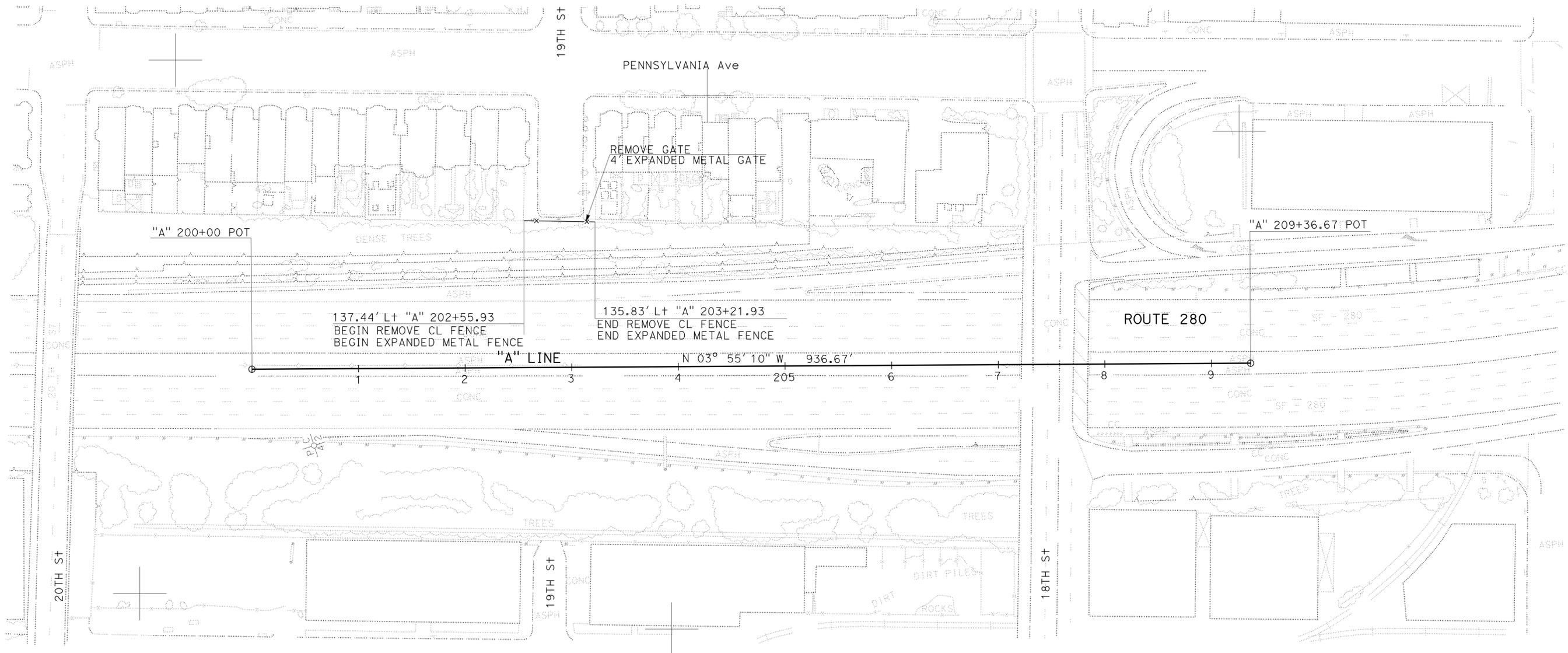
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FUNCTIONAL SUPERVISOR	AL B. LEE
CALCULATED/DESIGNED BY	NICOLETA L. PASCUA
CHECKED BY	AN NGUYEN
REVISOR	NLP
DATE	1-29-16

NOTE:

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
04	SF	101, 280	3.5/4.0, R6.7	5	21
			2-16-16	DATE	
REGISTERED CIVIL ENGINEER			DATE		
2-29-16			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.					

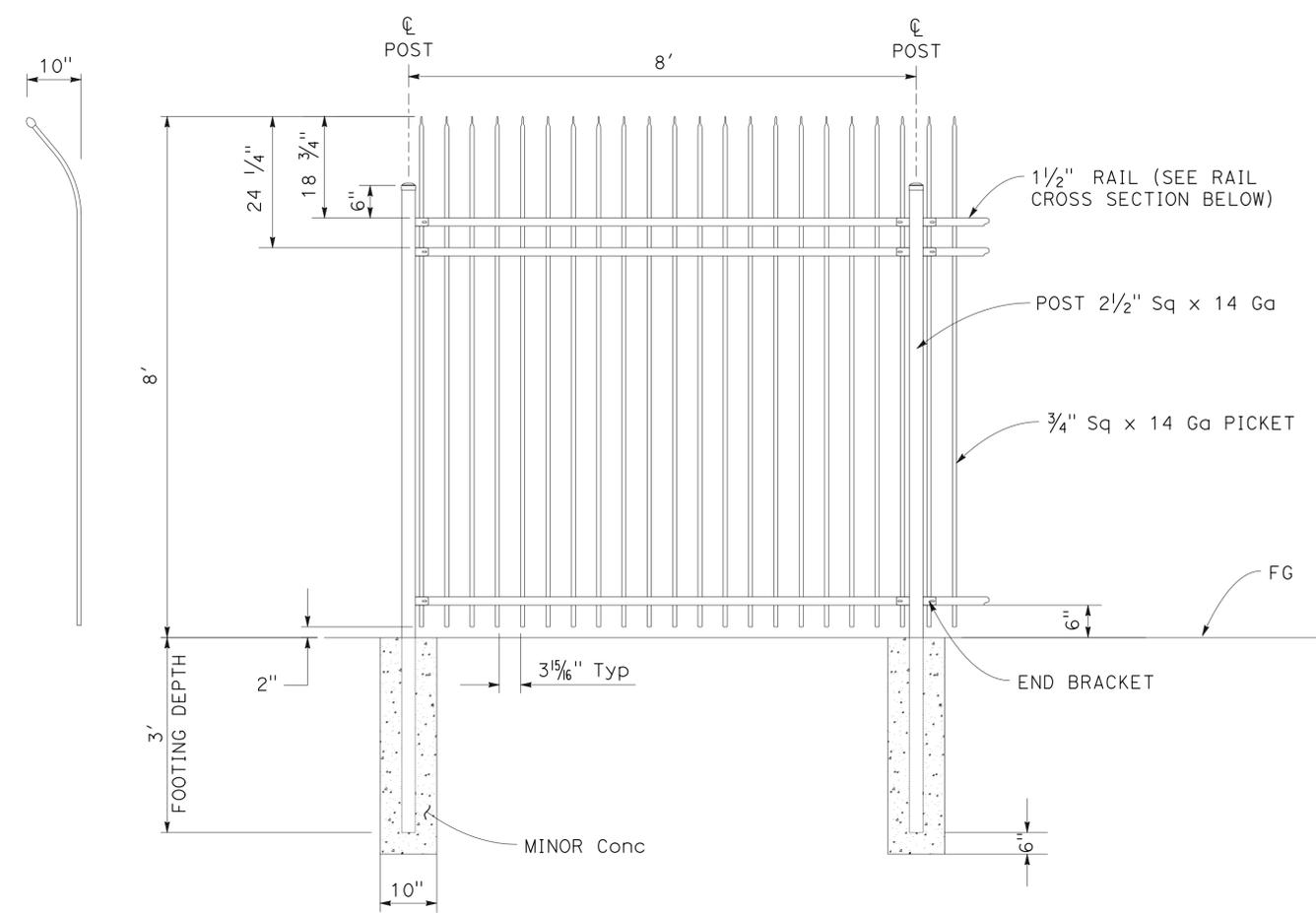


FOR NOTE AND LEGEND, SEE SHEET L-1

LAYOUT
 SCALE: 1" = 50'

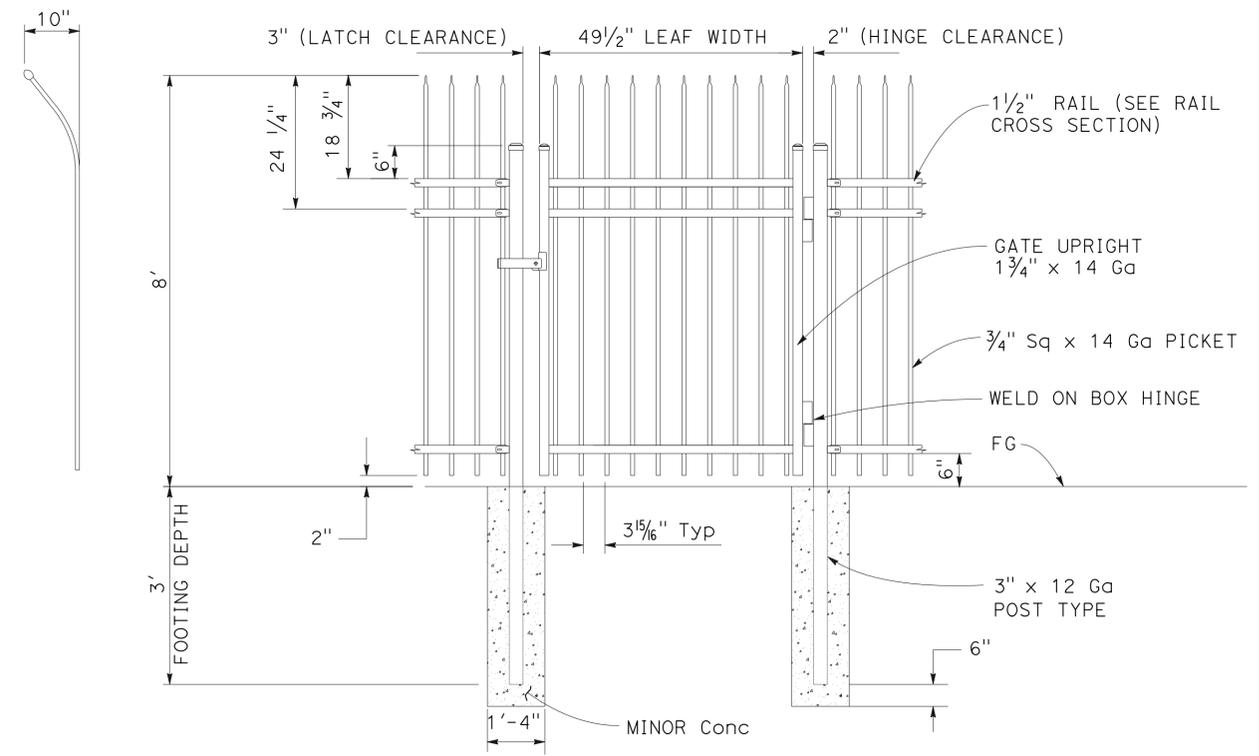
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	FUNCTIONAL SUPERVISOR	AL B. LEE
		CALCULATED/DESIGNED BY	CHECKED BY
NICOLETA L. PASCUA	AN NGUYEN	REVISOR	NLP
		DATE	1-29-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	6	21
			2-16-16	DATE	
REGISTERED CIVIL ENGINEER			No. 62776		
2-29-16			Exp. 6-30-16		
PLANS APPROVAL DATE			CIVIL		
<small>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.</small>					



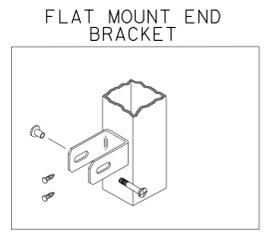
ELEVATION
SECURITY METAL FENCE

SIDE VIEW



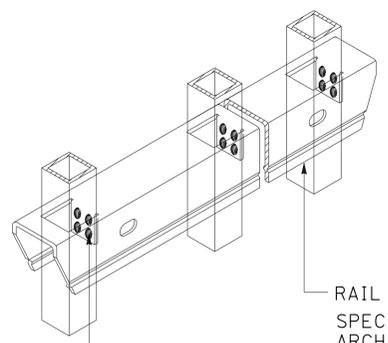
ELEVATION
4' SECURITY METAL GATE

SIDE VIEW



FLAT MOUNT END BRACKET

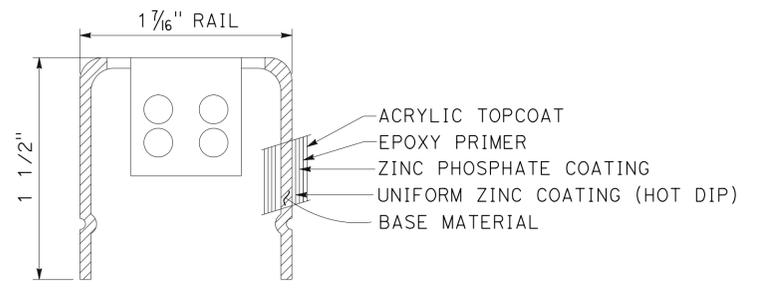
WELDING PROCESS
NO EXPOSED WELDS,
GOOD NEIGHBOR PROFILE-SAME
APPEARANCE ON BOTH SIDES



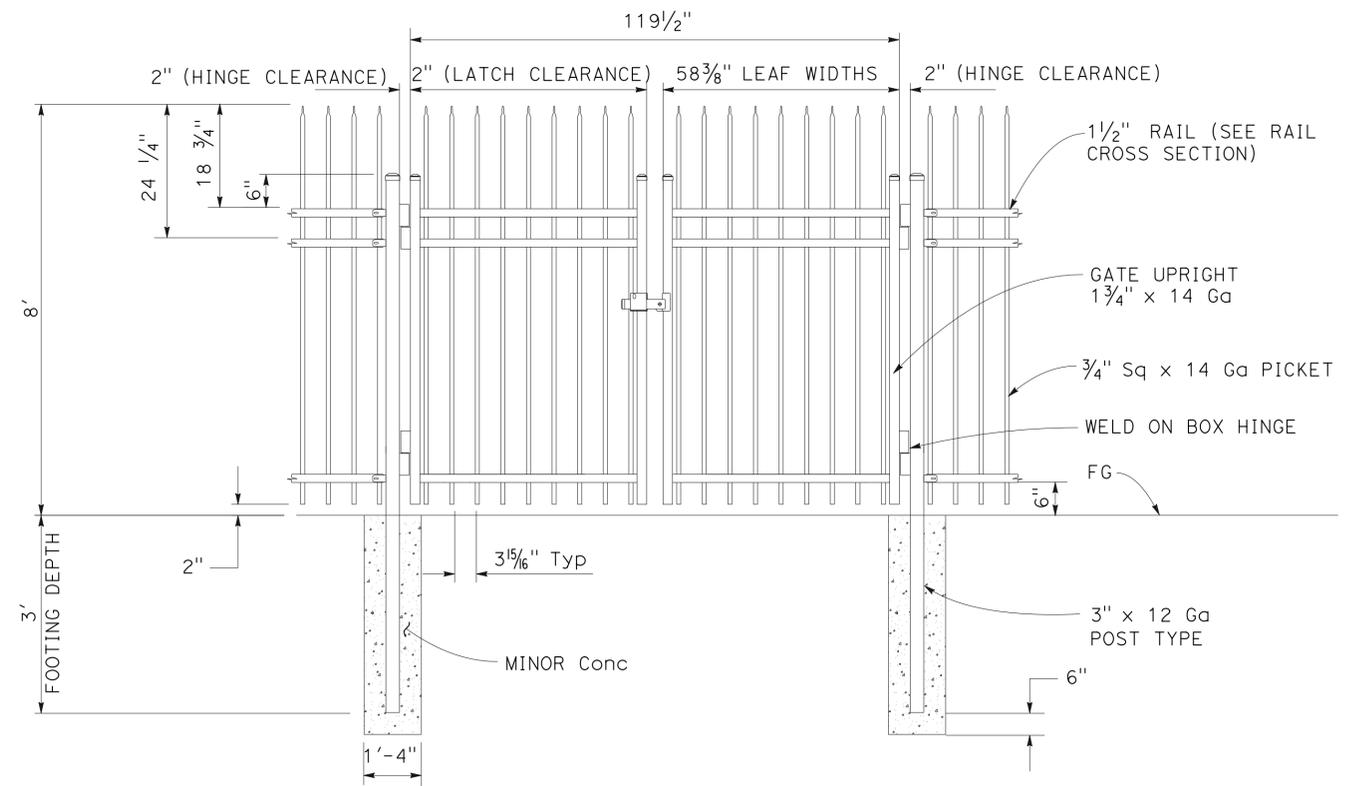
RAIL
SPECIALLY FORMED HIGH STRENGTH
ARCHITECTURALLY SHAPE

VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR
INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION
FOR INSTALLATION REQUIREMENTS.

BRACKET MOUNTING DETAIL



E-COAT COATING SYSTEM
RAIL CROSS SECTION

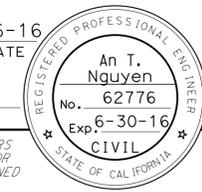


ELEVATION
10' SECURITY METAL DOUBLE GATE

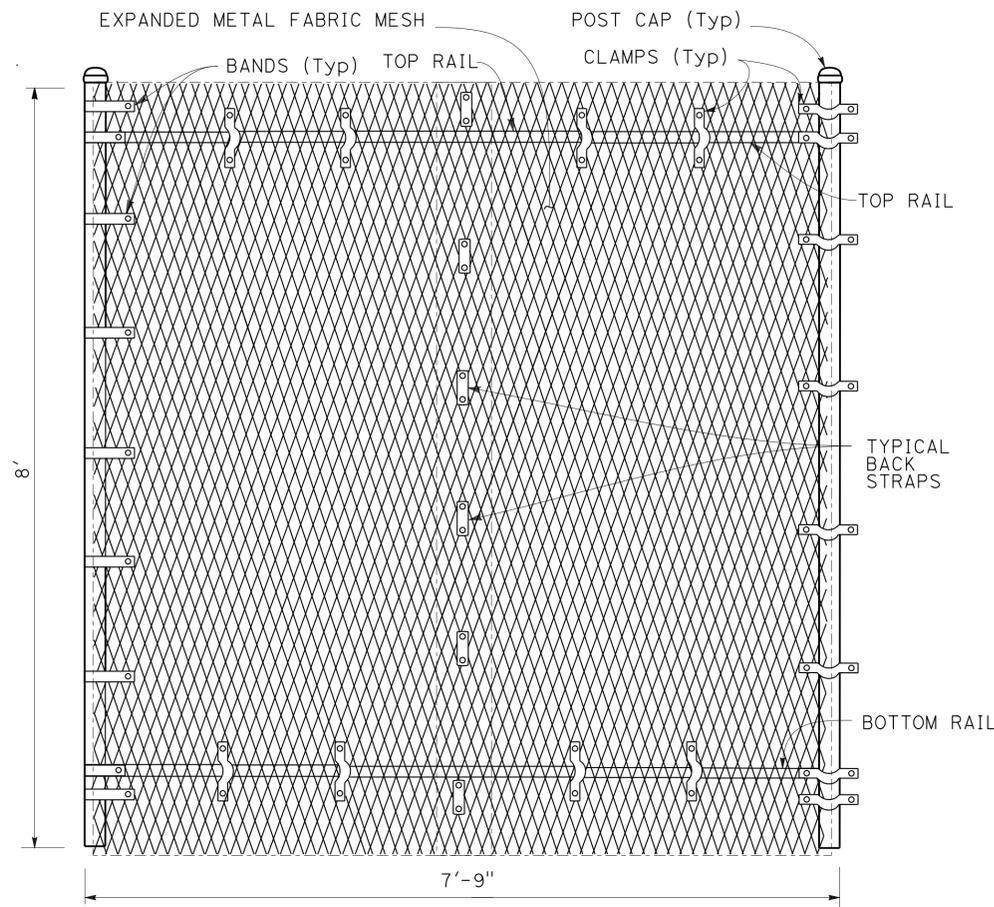
SIDE VIEW

CONSTRUCTION DETAILS
NO SCALE

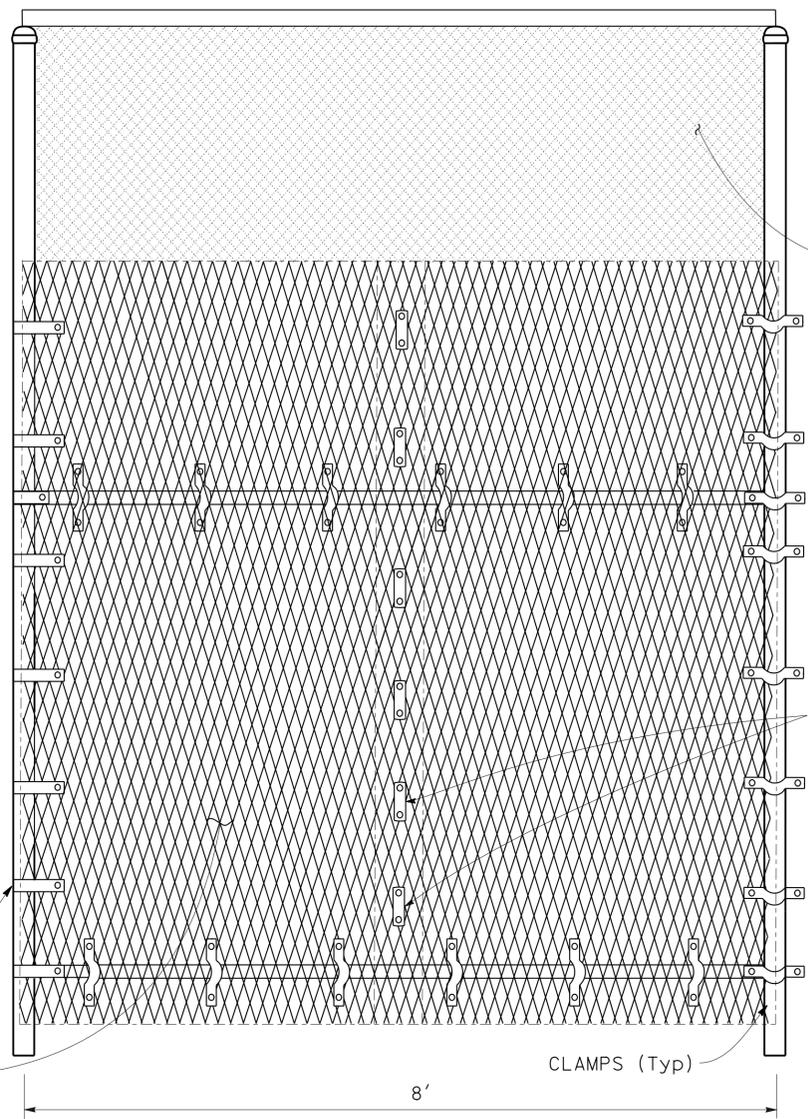
C-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	7	21
				2-16-16	DATE
		REGISTERED CIVIL ENGINEER			
		PLANS APPROVAL DATE		2-29-16	
		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.			

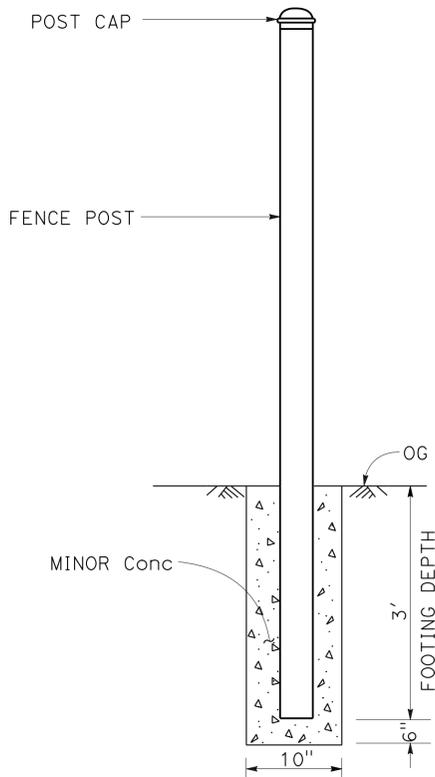
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: AL B. LEE
 CALCULATED/DESIGNED BY: AN NGUYEN
 CHECKED BY:
 REVISOR: NICOLETA L. PASCUA
 DATE REVISED: 1-29-16
 NLP
 1-29-16



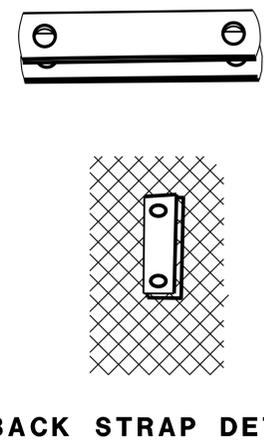
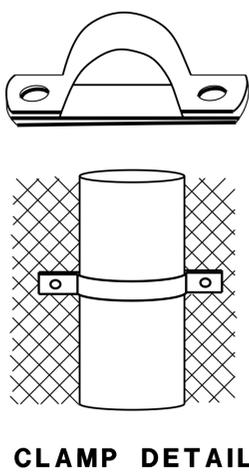
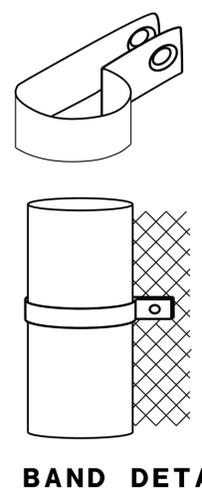
EXPANDED METAL FENCE



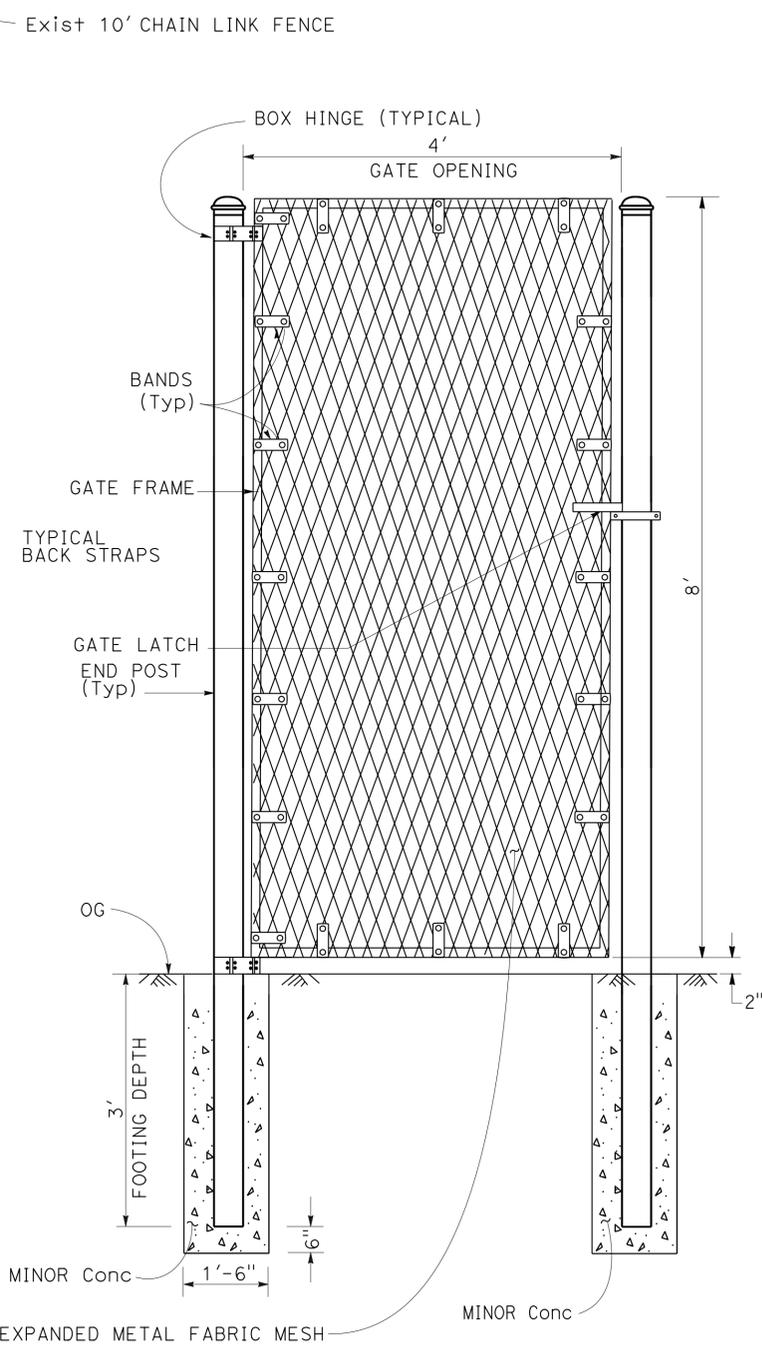
EXPANDED METAL FENCE (RETROFIT)



POST DETAIL



(* Exist CHAIN LINK FABRIC NOT SHOWN FOR CLARITY)



4' EXPANDED METAL GATE

CONSTRUCTION DETAILS
NO SCALE

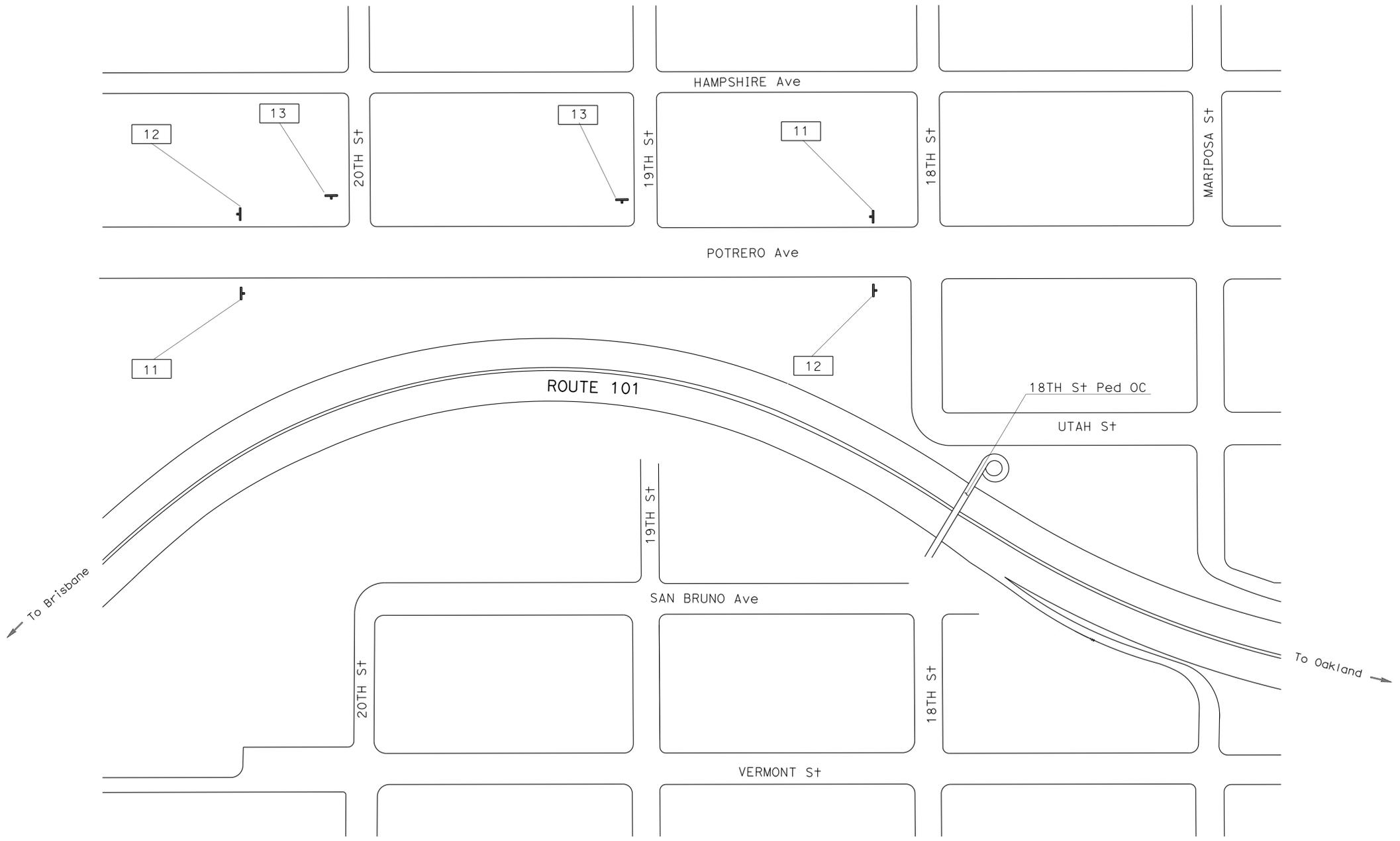
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY
 CHECKED BY
 ULICES VEGA
 RAJESH OBEROI
 REVISED BY
 DATE REVISED
 ATN
 2-29-16

NOTES:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. EXACT SIZE OF WOOD POSTS TO BE DETERMINED BY THE ENGINEER.

LEGEND:

No. CONSTRUCTION AREA SIGN NUMBER



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	8	21

Rajesh Oberoi 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 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
 Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

LAST REVISION DATE PLOTTED => 09-MAR-2016 02-26-16 TIME PLOTTED => 15:27

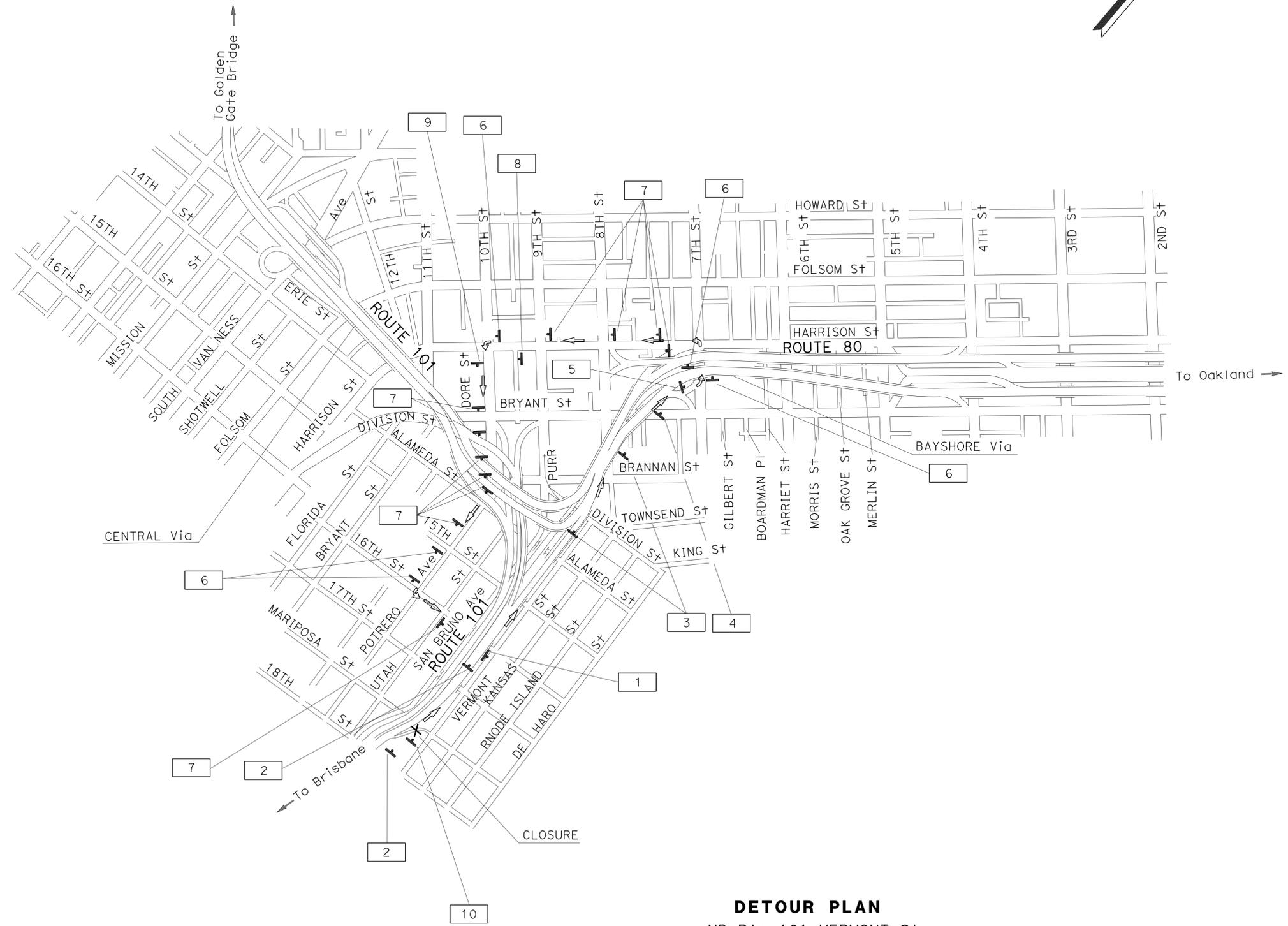
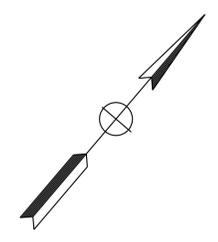
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]
 ULICES VEGA RAJESH OBEROI
 REVISED BY: [blank] DATE REVISED: [blank]
 ATN: 2-29-16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	9	21

Rajesh Oberoi 2-29-16
 REGISTERED CIVIL ENGINEER DATE
 2-29-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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DETOUR PLAN
 NB Rte 101 VERMONT St
 OFF-RAMP CLOSED

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-2

FOR NOTES AND LEGEND
 SEE SHEET CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION DATE PLOTTED => 09-MAR-2016 02-26-16 TIME PLOTTED => 15:27

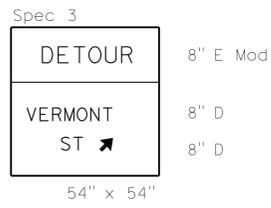
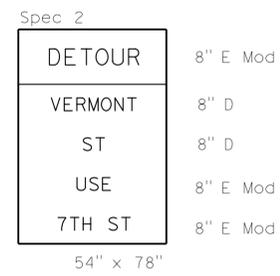
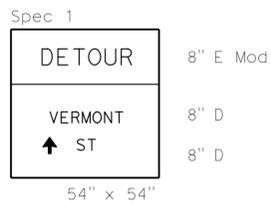
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	10	21

Rajesh Oberoi 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

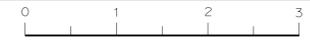
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SPECIAL SIGNS

CONSTRUCTION AREA SIGNS
 NO SCALE

CS-3



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR
 ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY
 CHECKED BY
 ULICES VEGA
 RAJESH OBEROI
 REVISED BY
 DATE REVISED
 ATN
 2-29-16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	11	21

Rajesh Oberoi 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

Rajesh Oberoi
 No. 46046
 Exp. 2-31-16
 CIVIL
 STATE OF CALIFORNIA

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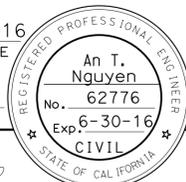
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS	REMARKS
1	M4-8A	24" x 18"	END DETOUR		1	SSBM
2	Spec 1	54" x 54"	DETOUR VERMONT S+	1 - 6" x 6"	2	
3	Spec 2	54" x 78"	DETOUR VERMONT S+ USE 7TH S+	1 - 6" x 6"	2	
4	Spec 3	54" x 54"	DETOUR VERMONT S+	1 - 6" x 6"	1	
5	M4-10L	48" x 18"	DETOUR	1 - 4" x 6"	1	
	Spec 4	42" x 24"	VERMONT S+			
6	M4-10L	48" x 18"	DETOUR		5	SSBM
	Spec 4	42" x 24"	VERMONT S+			
7	SC3(CA)	48" x 18"	DETOUR		11	SSBM
	Spec 4	42" x 24"	VERMONT S+			
8	M4-8	48" x 18"	DETOUR	1 - 4" x 6"	1	
	Spec 4	42" x 24"	VERMONT S+			
	M5-1	21" x 15"				
9	Spec 5	48" x 36"	DETOUR VERMONT S+ RIGHT LANE		1	SSBM
10	SC6-4(CA)	48" x 60"	RAMP CLOSED (DATES) (TIMES)	1 - 6" x 6"	1	
11	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2	
12	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	2	
13	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	2	

CONSTRUCTION AREA SIGNS

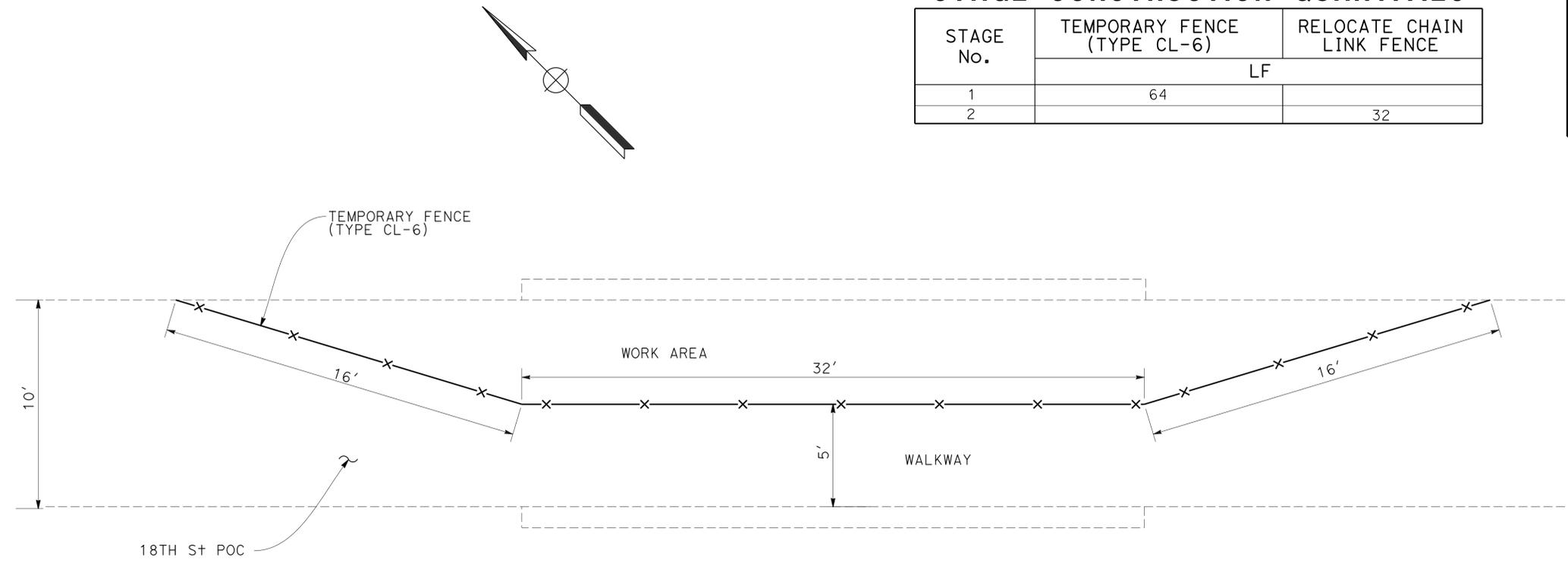
CS-4



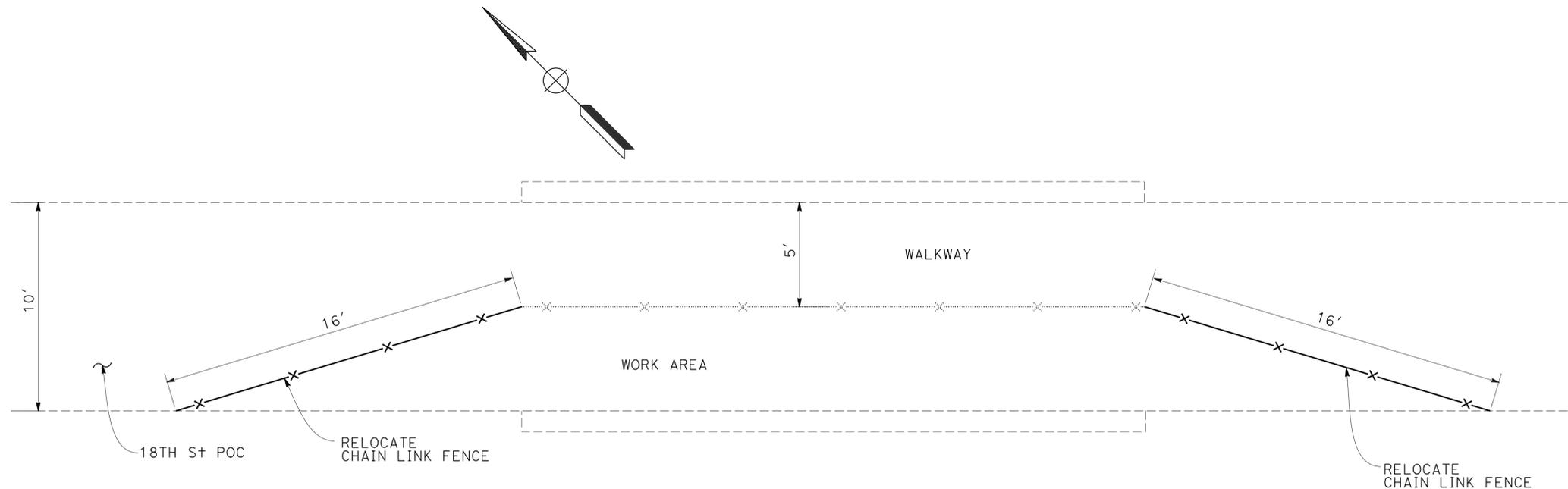
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	12	21
		<i>An T. Nguyen</i> 2-16-16 REGISTERED CIVIL ENGINEER DATE			
		2-29-16 PLANS APPROVAL DATE			
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

STAGE CONSTRUCTION QUANTITIES

STAGE No.	TEMPORARY FENCE (TYPE CL-6)	RELOCATE CHAIN LINK FENCE
	LF	
1	64	
2		32



STAGE 1



STAGE 2

STAGE CONSTRUCTION PLAN AND QUANTITIES
NO SCALE

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

SC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: AL B. LEE
 DESIGNED BY: NICOLETA L. PASCUA
 CHECKED BY: AN NGUYEN
 NLP
 1-29-16
 REVISIONS: 1-29-16

USERNAME => s128357
 DGN FILE => 0414000333ma001.dgn

RELATIVE BORDER SCALE 15 IN INCHES
 0 1 2 3

UNIT 0702

PROJECT NUMBER & PHASE

04140003331

LAST REVISION DATE PLOTTED => 09-MAR-2016
 02-16-16 TIME PLOTTED => 15:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	13	21

An T. Nguyen 2-16-16
 REGISTERED CIVIL ENGINEER DATE
 2-29-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 An T. Nguyen
 No. 62776
 Exp. 6-30-16
 CIVIL
 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.

FENCE AND GATE SUMMARY

SHEET No.	STATION	SECURITY METAL FENCE	4' SECURITY METAL GATE	10' SECURITY METAL DOUBLE GATE	EXPANDED METAL FENCE (RETROFIT)	EXPANDED METAL FENCE	4' EXPANDED METAL GATE	SECURITY METAL FENCE (STRUCTURE)	REMOVE CHAIN LINK FENCE	REMOVE GATE	REMOVE CHAIN LINK FENCE (STRUCTURE)
		LF	EA		LF	EA	LF	EA			
L-1	122.46' Rt "F2" 199+92.18 TO 170' Rt "F2" 201+00				147						
L-2	170' Rt "F2" 201+00 TO 195' Rt "F2" 208+10					645	1				
	195' Rt "F2" 208+10 TO 223' Rt "F2" 209+21	100									
	223' Rt "F2" 209+21 TO 215' Rt "F2" 210+37					80					
	170' Rt "F2" 201+00 TO 215' Rt "F2" 210+37								832		
L-3	98.82' Lt "F2" 200+89 TO 104.53' Lt "F2" 203+13.56					220	1		220	1	
	216.15' Lt "F2" 208+44.85 TO 141' Lt "F2" 211+50	355		1				355	1		
	141' Lt "F2" 211+50 TO 144.1' Lt "F2" 215+56.83	466	1					466	1		
	105.66' Lt "F2" 217+52.33 TO 62.36' Lt "F2" 217+52.11	40	1					40	1		
	136' Rt "F2" 213+50 TO 146' Rt "F2" 214+00	42	1					42	1		
	145' Rt "F2" 218+00 TO 100' Rt "F2" 218+90	144	1					144	1		
	"F2" 218+92 TO "F2" 219+05							70			70
L-4	85' Rt "F2" 219+05 TO 97' Rt "F2" 219+75	74	1					74	1		
L-4	137.44' Lt "A" 202+55.93 TO 135.83' Lt "A" 203+21.93					65	1		65	1	
TOTAL		1221	5	1	147	1010	3	70	2238	8	70

REPAIR SPALLED SURFACE AREA

LOCATION	SQFT
18TH St Ped OC	11
TOTAL	11

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN
 Caltrans®
 FUNCTIONAL SUPERVISOR AL B. LEE
 CALCULATED/DESIGNED BY AN NGUYEN
 CHECKED BY AN NGUYEN
 REVISOR NLP
 DATE REVISED 1-29-16



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	14	21

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 2-29-16

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
kíp	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

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

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
MtI	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT
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
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	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 MtI	PERMEABLE MATERIAL

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
Qty	QUANTITY
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

P continued

Q

R

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 THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES
T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
TeI	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

S

T

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME
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
WWLLOL	WINGWALL LAYOUT LINE
X Sec	CROSS SECTION
Xing	CROSSING
Yr	YEAR
Yrs	YEARS

T continued

U

V

W

X

Y

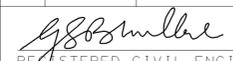
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N

O

P

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	15	21


 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 2-29-16

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		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					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%
		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.

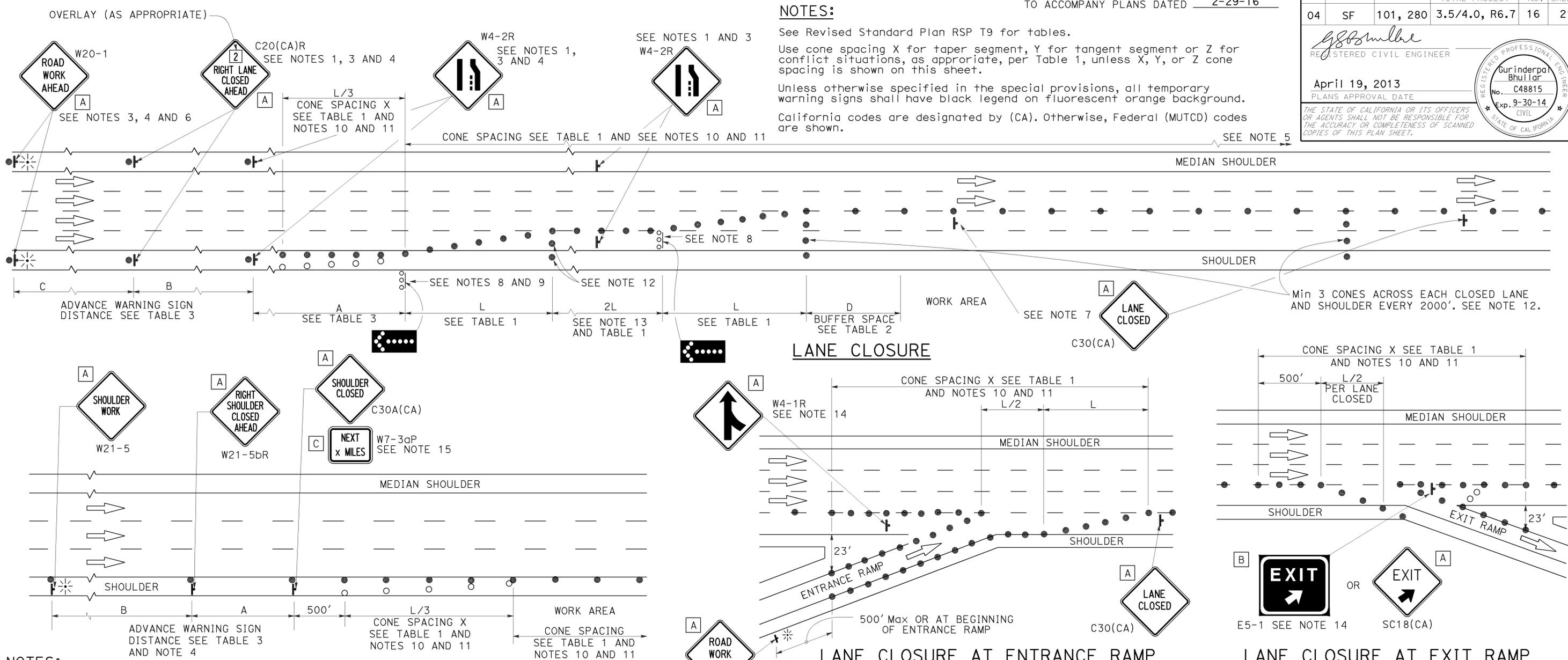
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	16	21

REGISTERED CIVIL ENGINEER
 April 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.

2010 REVISED STANDARD PLAN RSP T10



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway 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.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.

- SHOULDER CLOSURE**
6. 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)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. 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 top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

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	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

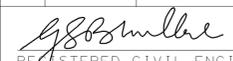
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

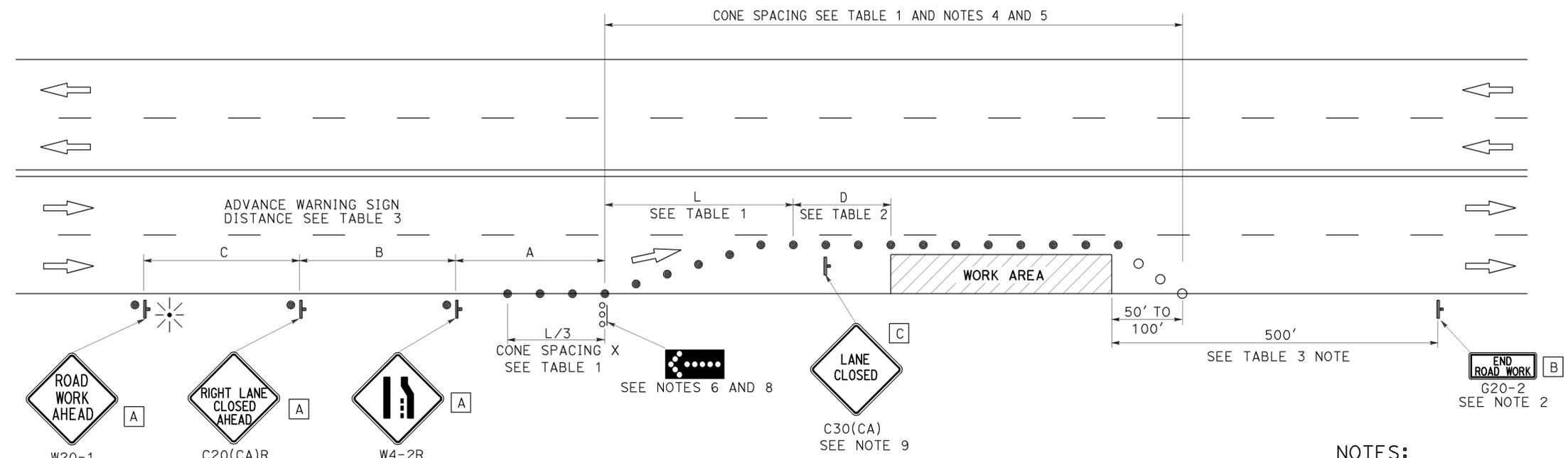
REVISED STANDARD PLAN RSP T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	17	21


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 2-29-16



TYPICAL LANE CLOSURE

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
04	SF	101, 280	3.5/4.0, R6.7	18	21

Devinder Singh
REGISTERED CIVIL ENGINEER

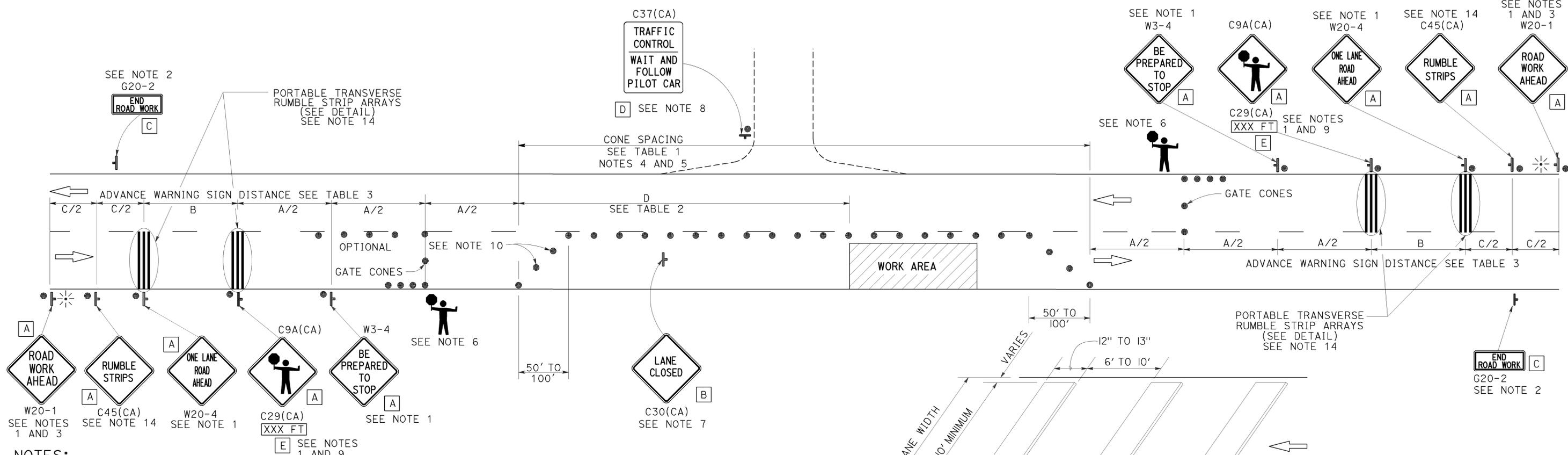
October 30, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Devinder Singh
No. C50470
Exp. 6-30-17
CIVIL
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.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 2-29-16



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

SIGN PANEL SIZE (Min)

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

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 30, 2015 SUPERSEDES RSP T13 DATED OCTOBER 17, 2014, 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

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	19	21

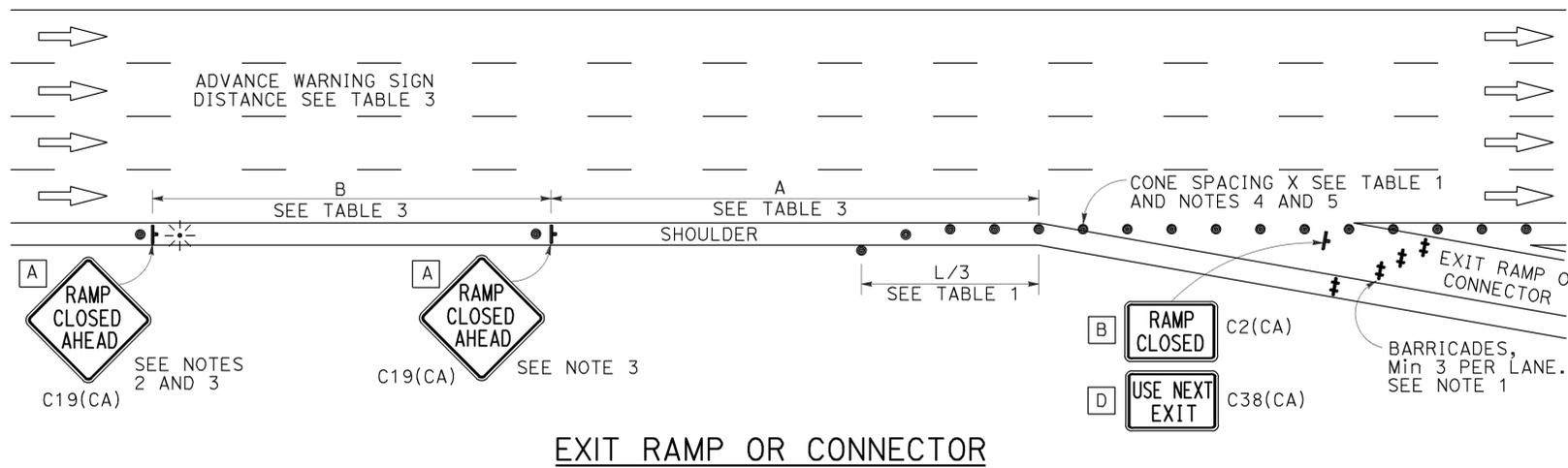
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

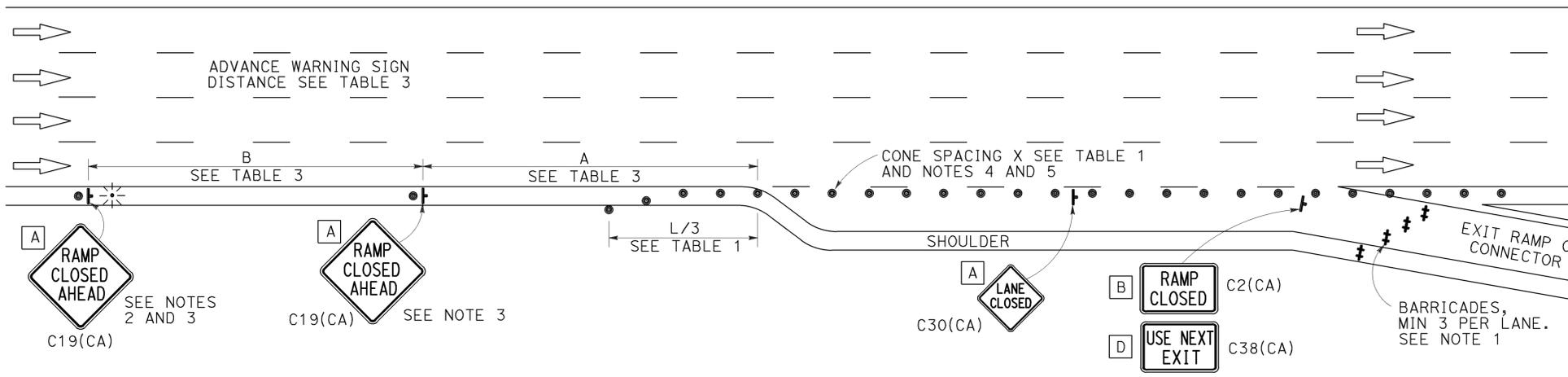
TO ACCOMPANY PLANS DATED 2-29-16

NOTES:

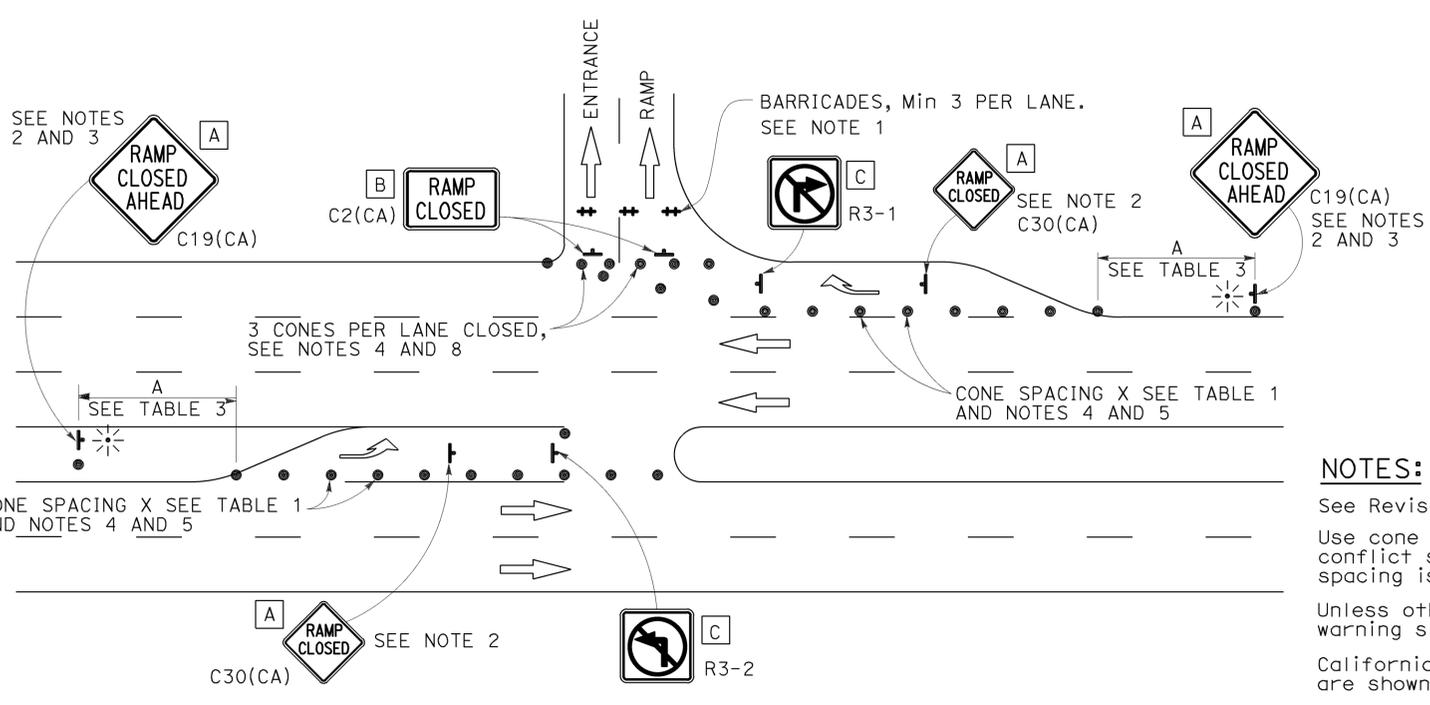
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19(CA) "RAMP CLOSED AHEAD" 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- All cones used for ramp 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 ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



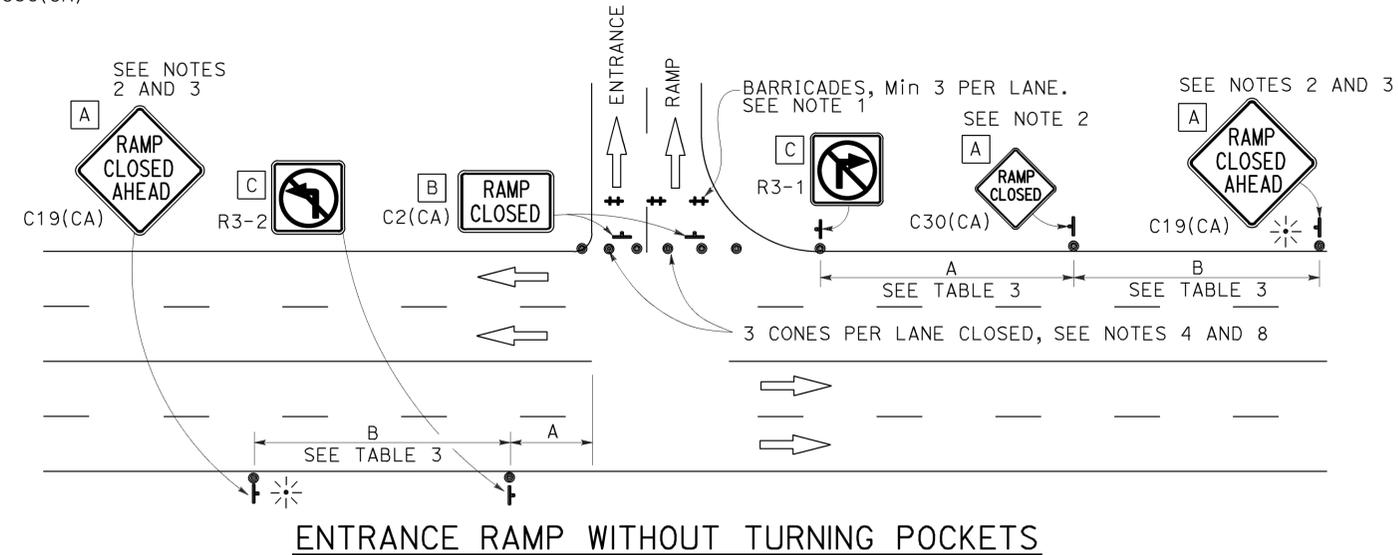
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

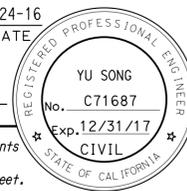
NOTES:

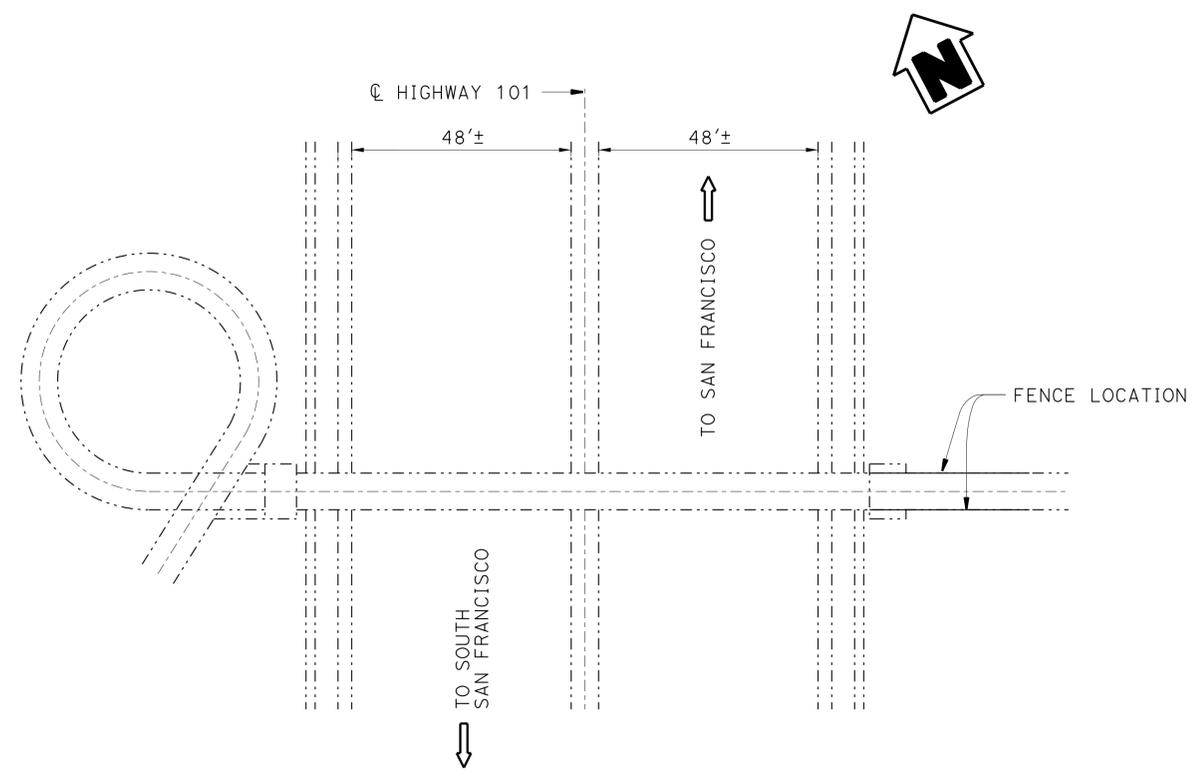
- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP T14

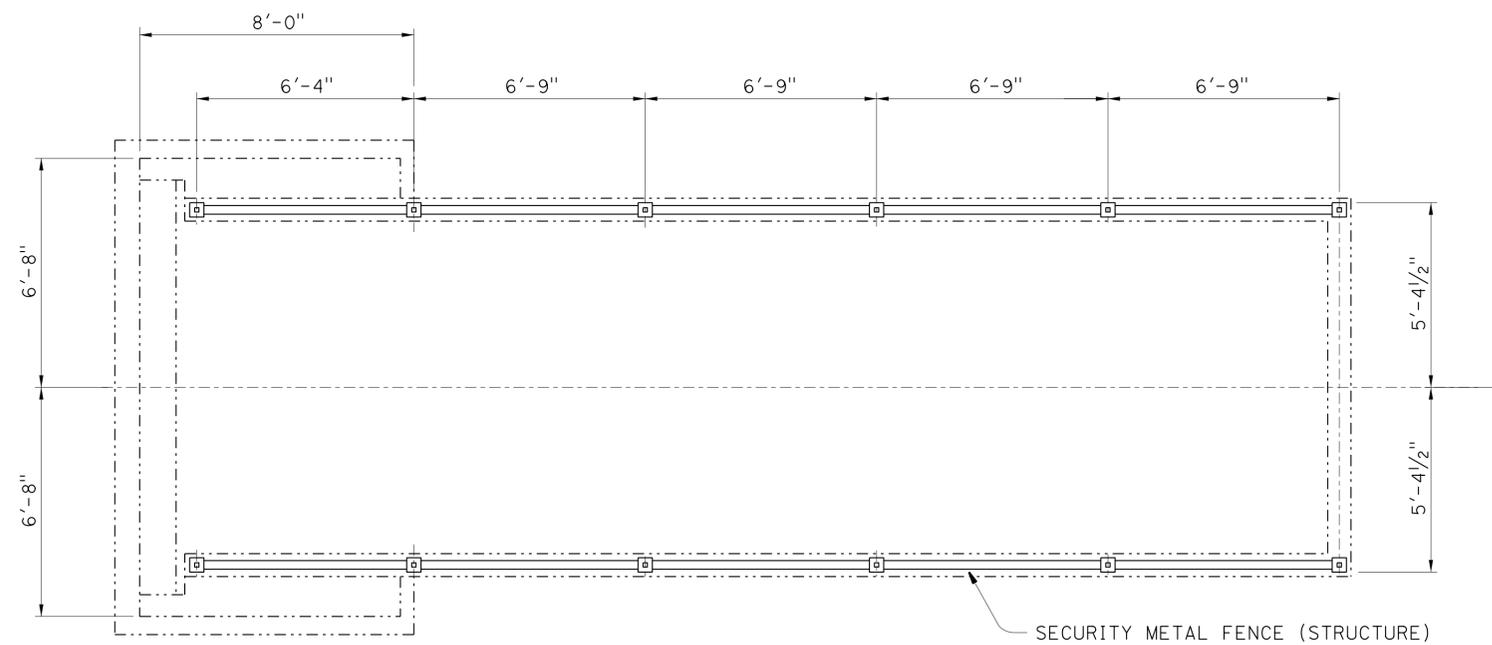
2010 REVISED STANDARD PLAN RSP T14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	20	21
 REGISTERED CIVIL ENGINEER			2-24-16	DATE	
PLANS APPROVAL DATE			2-29-16		
					
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18TH STREET PEDESTRIAN OVERCROSSING
BRIDGE No. 34-48, PM 3.96

PLAN
1"=20'



PLAN - EAST RAMP
3/8"=1'

LEGEND:
 ----- INDICATES EXISTING STRUCTURE
 _____ INDICATES NEW STRUCTURE

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DAVID NEUMANN
DESIGN ENGINEER

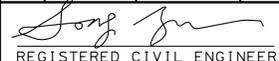
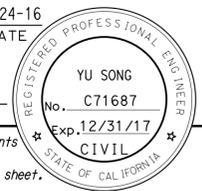
DESIGN	BY YU SONG	CHECKED AIMAN MALAK	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY HUNG NGUYEN	CHECKED YU SONG	LAYOUT	BY _____
QUANTITIES	BY YU SONG	CHECKED AIMAN MALAK	SPECIFICATIONS	BY _____
			PLANS AND SPECS COMPARED	BY _____

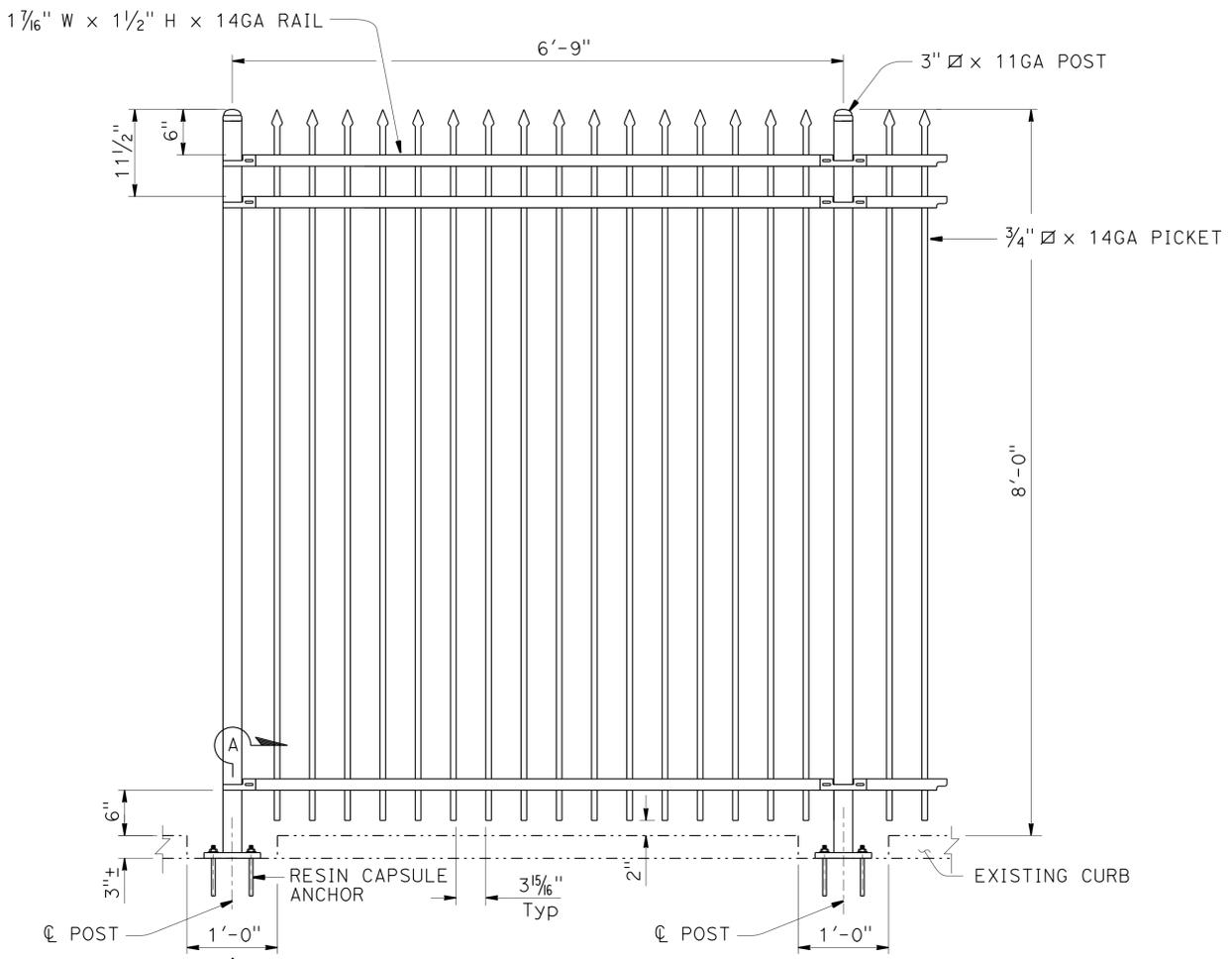
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGN BRANCH B

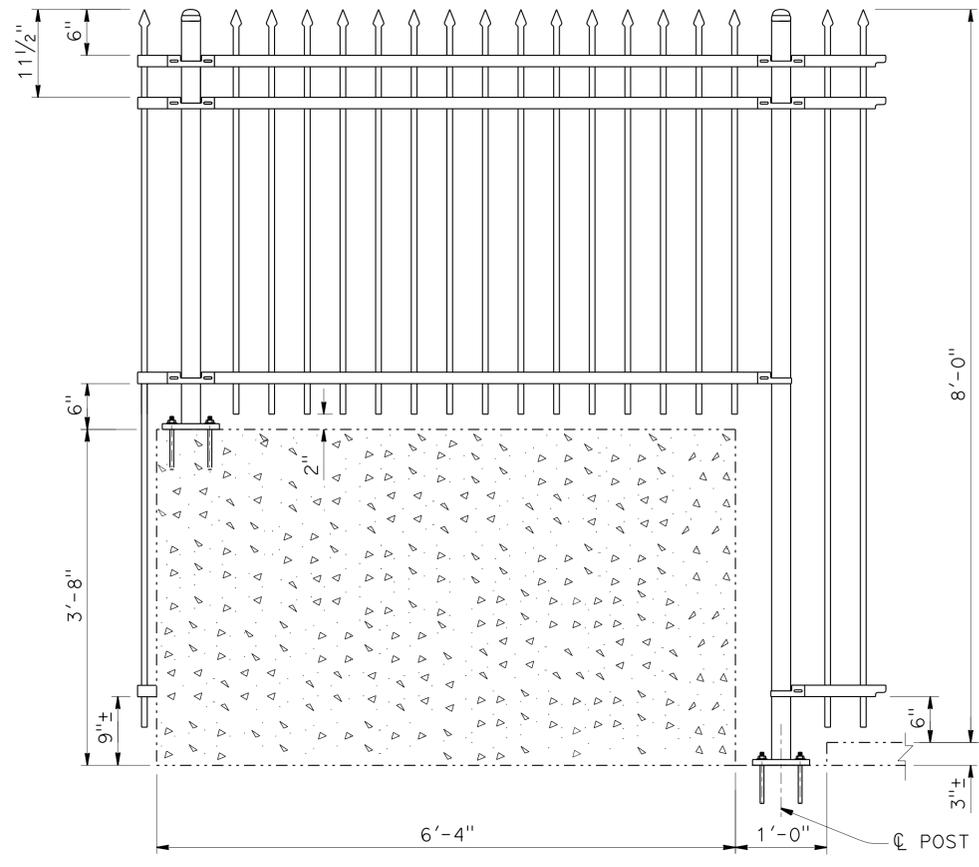
BRIDGE NO.	34-48
POST MILE	3.96

SECURITY METAL FENCE (STRUCTURE)
GENERAL PLAN

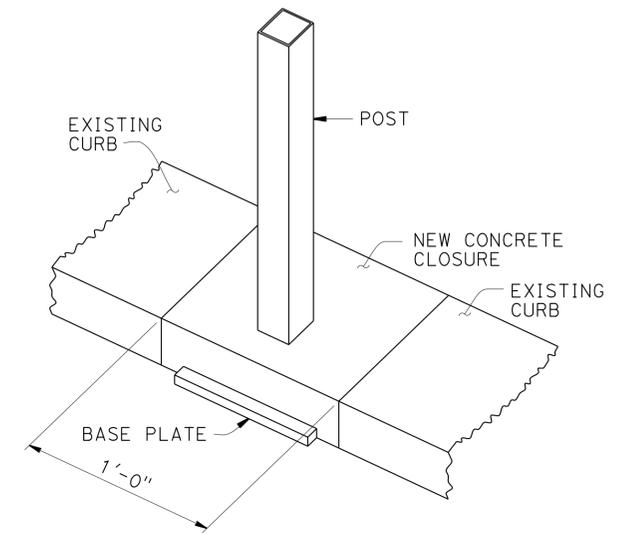
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	101, 280	3.5/4.0, R6.7	21	21
 REGISTERED CIVIL ENGINEER			2-24-16	DATE	
PLANS APPROVAL DATE			2-29-16	DATE	
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ELEVATION
1"=1'-0"

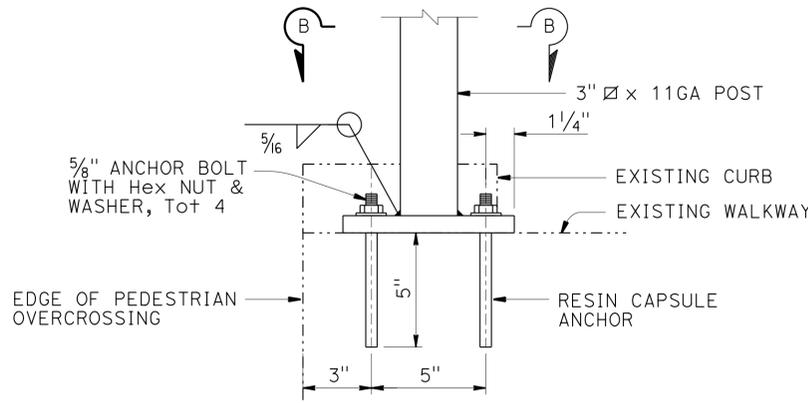


ELEVATION
(FENCE ON CONCRETE PEDESTAL)
1"=1'-0"

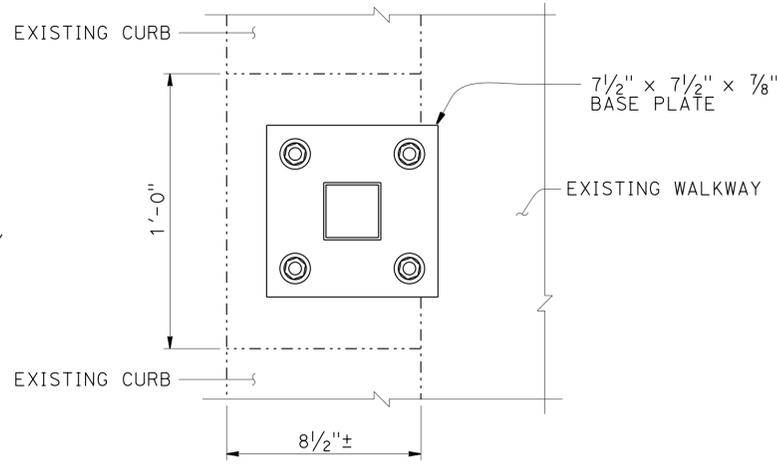


CURB OPENING CLOSURE
SCHEMATIC DIAGRAM

LEGEND:
 - - - - - INDICATES EXISTING STRUCTURE
 _____ INDICATES NEW STRUCTURE



SECTION A-A
(POST BASE DETAIL)
3"=1'-0"



SECTION B-B
(CURB PLAN VIEW)
3"=1'-0"

NOTES:

1. Remove all the existing chain link fence items for both sides of the walkway, including posts, rails and mesh fabric. Cut existing posts to be flushed with the existing curb top and fill the middle 2 post holes with grout.
2. Existing curbs on both sides of the walkway need to be retrofitted to fix spallings, cracks and exposed rebars. Curing time must be allowed to gain specified strength.
3. For new post installation except the one on the concrete pedestal, saw cut an opening of 12" long from the existing curb, smooth the bottom to be flushed with the surface of the walkway.
4. Fasten base plate to the bottom of the opening using resin capsule anchors. Apply thread-locking fluid to threads of anchor bolts to prevent loosening.
5. Installation of Security Metal Fence (Structure) shall follow specifications from the manufacturer.
6. ASTM A307 anchor bolts shall be used. The minimum yield strength shall be 46 ksi for fence panels and posts, 50 ksi for base plates.
7. After fence installation, the openings on the curbs must be covered with concrete as shown.

NOTE:
 THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BRANCH CHIEF	DESIGN	BY YU SONG	CHECKED AIMAN MALAK
	DETAILS	BY HUNG NGUYEN	CHECKED YU SONG
	QUANTITIES	BY YU SONG	CHECKED AIMAN MALAK

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	34-48
DEPARTMENT OF TRANSPORTATION	DESIGN AND TECHNICAL SERVICES	POST MILE	3.96
SPECIAL DESIGNS BRANCH		SECURITY METAL FENCE (STRUCTURE)	
		CONSTRUCTION DETAILS	

UNIT: 3619	PROJECT NUMBER & PHASE: 04140003331	CONTRACT NO.: 04-1J6904
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REVISION DATES	SHEET	OF
12-16-15	2	2