INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	TYPICAL CROSS SECTIONS
4-5	CONSTRUCTION DETAILS
6-7	CONSTRUCTION AREA SIGNS
8-9	PAVEMENT DELINEATON QUANTITIES
10	SUMMARY OF QUANTITIES
11-17	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-P150(026)E

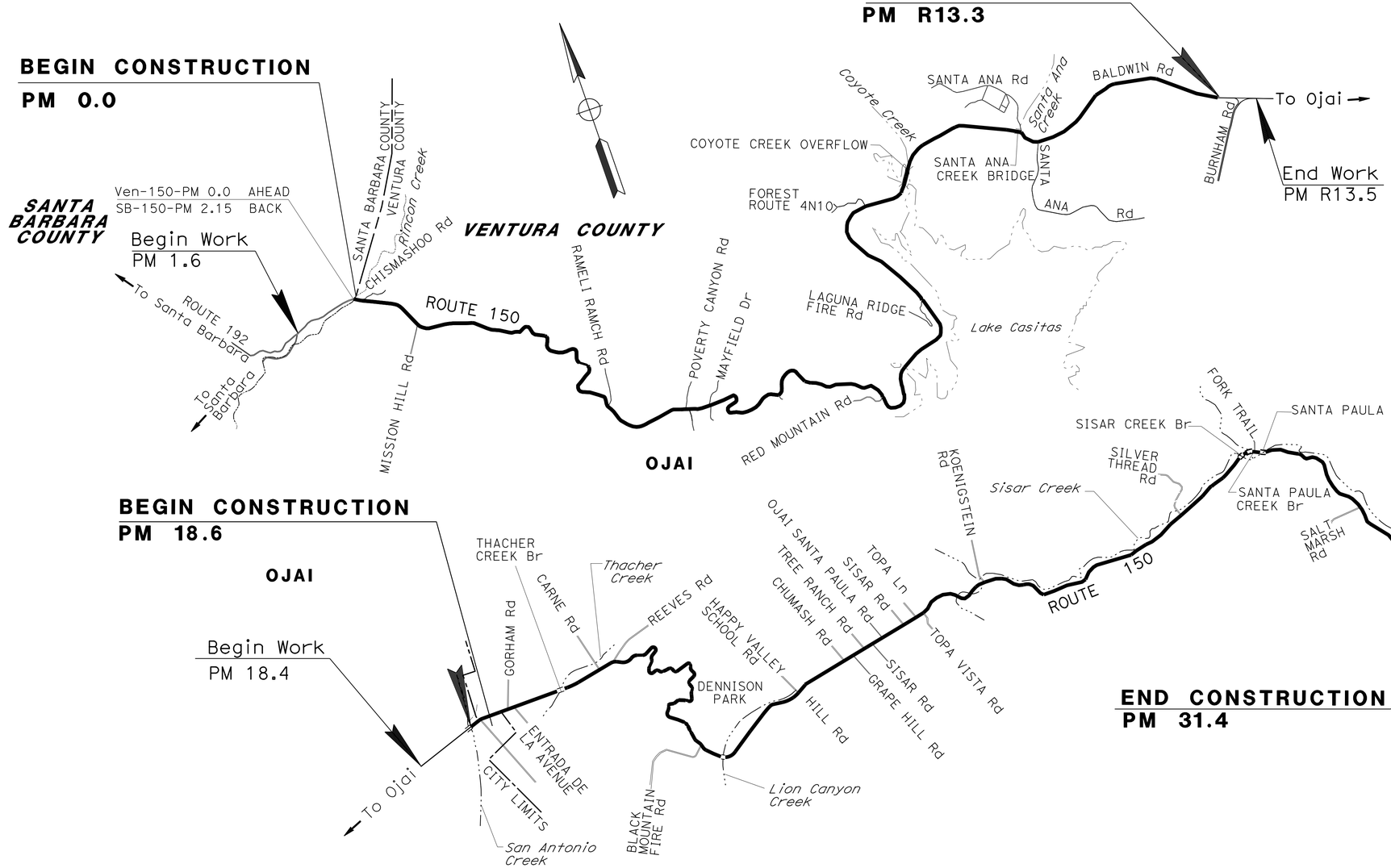
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	1	17

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN VENTURA COUNTY IN OJAI AND VENTURA FROM THE SANTA BARBARA COUNTY LINE TO 0.1 MILE WEST OF BRIDGE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



NO SCALE

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

PROJECT MANAGER: GARY KEVORKIAN

DESIGN MANAGER: KEVIN KWAN

John T. Zaki 2-15-16

PROJECT ENGINEER DATE

REGISTERED CIVIL ENGINEER

February 22, 2016

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHN ZAKI — No. C63665 — Exp. 9-30-16 — 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.

CONTRACT No.	07-2W0104
PROJECT ID	0713000091

LAST REVISION 02-22-16

DATE PLOTTED => 29-FEB-2016
TIME PLOTTED => 08:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	2	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

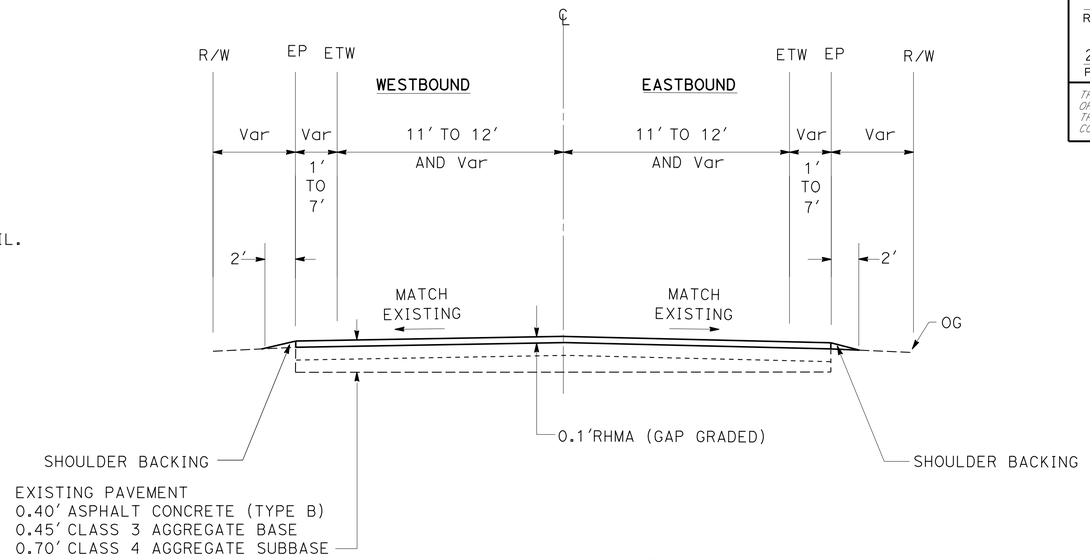
2-22-16
PLANS APPROVAL DATE

JOHN ZAKI No. C63665 Exp. 9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

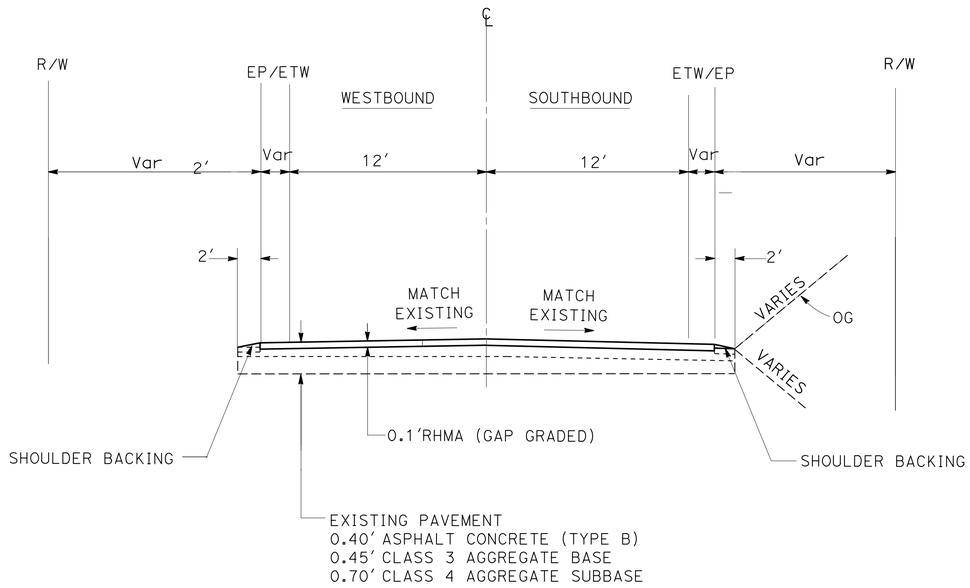
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. EXISTING DRAINAGE INLETS HAVE NOT BEEN PLOTTED ON THESE PLANS.
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
6. OMIT RHMA (GAP GRADED) OVERLAY ON BRIDGE DECKS AND PCC PAVEMENT.
7. USE 1:400 PAVEMENT TAPER TRANSITION BEFORE AND AFTER THE EXISTING GUARDRAIL.
8. COLD PLANE AC PAVEMENT AND PLACE RHMA (GAP GRADED) ARE ONLY WHERE THERE ARE EXISTING GUARDRAIL ON ANY OR BOTH SIDE OF THE ROAD.



ROUTE 150
PM 18.6/31.4



ROUTE 150
PM 0.0/R13.3

TYPICAL CROSS SECTIONS
NO SCALE

X-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOHN ZAKI
CHECKED BY: KEVIN KWAN
FUNCTIONAL SUPERVISOR: KEVIN KWAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-22-16
DATE PLOTTED => 18-FEB-2016
TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010
USERNAME => s122436
DGN FILE => 72w010ca001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	3	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-16
CIVIL
STATE OF CALIFORNIA

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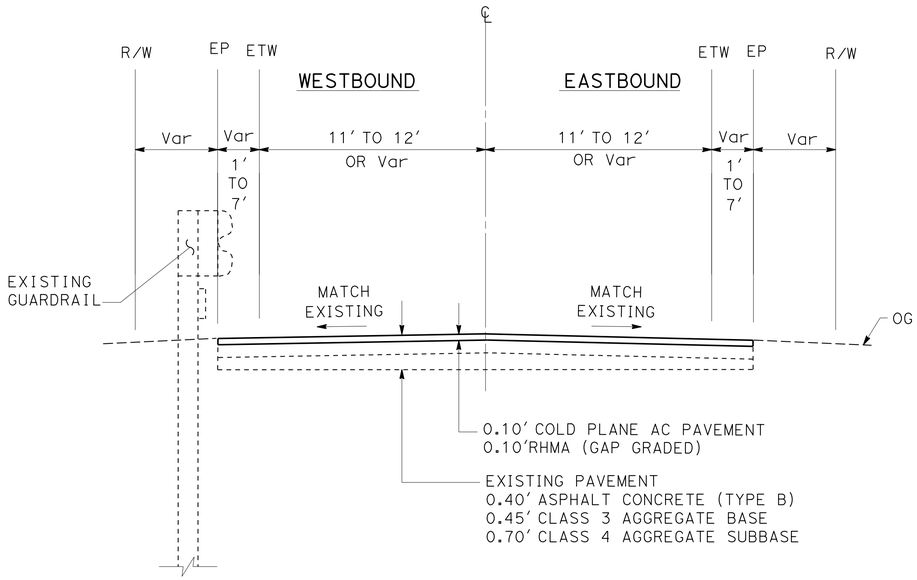
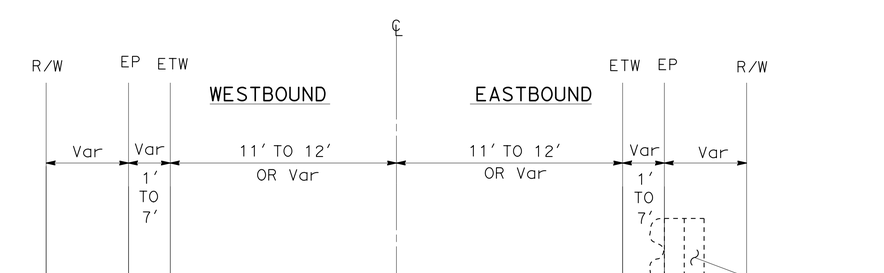


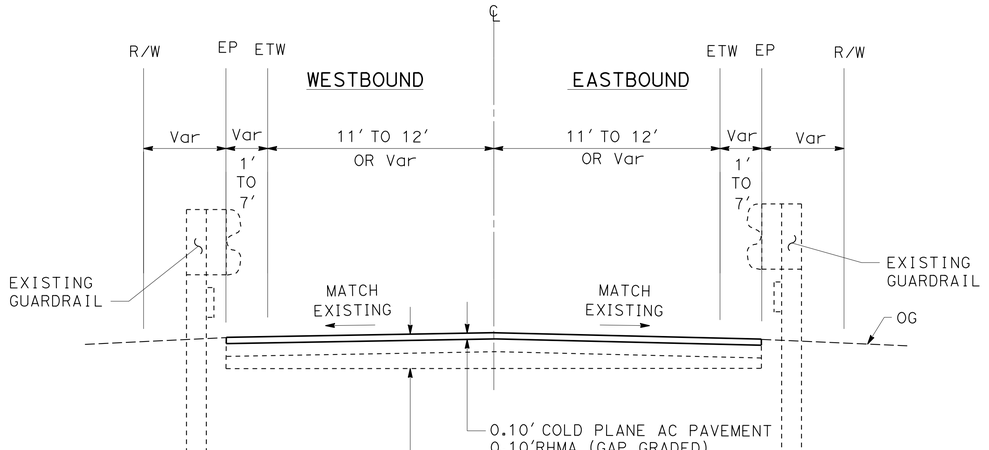
ROUTE 150

FOR EXISTING GUARDRAIL LOCATIONS
CASE I



ROUTE 150

FOR EXISTING GUARDRAIL LOCATIONS
CASE II



ROUTE 150

FOR EXISTING GUARDRAIL LOCATIONS
CASE III

TYPICAL CROSS SECTIONS

NO SCALE

X-2

REVISED BY	DATE REVISED
JOHN ZAKI	KEVIN KWAN
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	KEVIN KWAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-22-16
DATE PLOTTED => 18-FEB-2016
TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010
USERNAME => s122436
DGN FILE => 72w010ca002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	4	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-16
CIVIL
STATE OF CALIFORNIA

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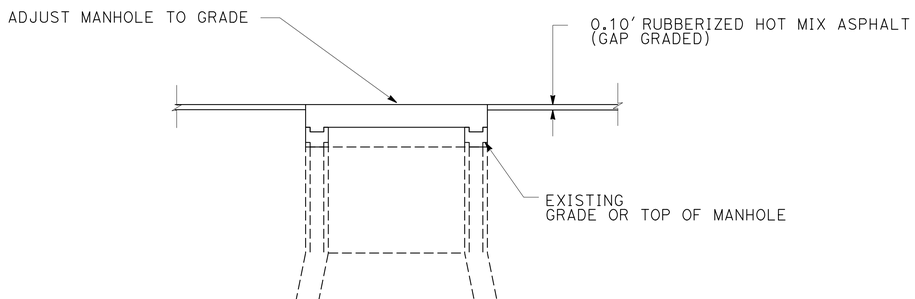
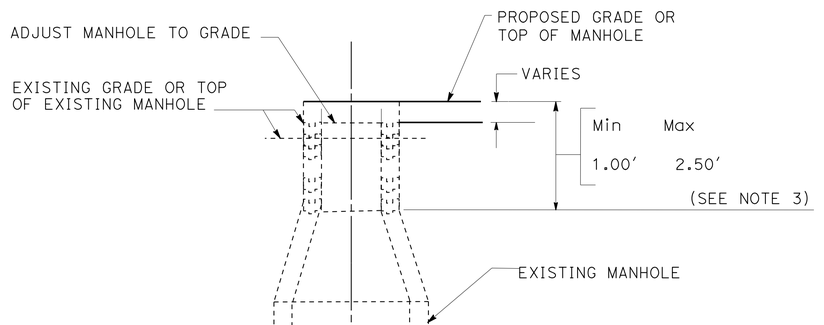
NOTES:

1. OMIT COLD PLANING AND RUBBERIZED HOT MIX ASPHALT SURFACING ON PCC PAVEMENT AND GUTTERS.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED.
3. PRECAST CONCRETE MANHOLES RAISED LESS THAN 3" MAY BE RAISED BY APPLYING MORTAR TO THE TOP OF THE EXISTING HOLE IF THE TOTAL HEIGHT OF MORTAR, EXISTING AND NEWLY APPLIED, DOES NOT EXCEED 3".





ADJUST MANHOLE TO GRADE

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: JOHN ZAKI | CHECKED BY: KEVIN KWAN
FUNCTIONAL SUPERVISOR: KEVIN KWAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION DATE PLOTTED => 18-FEB-2016
TIME PLOTTED => 16:39
02-22-16

BORDER LAST REVISED 7/2/2010 | USERNAME => s122436 | DGN FILE => 72w010ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	5	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

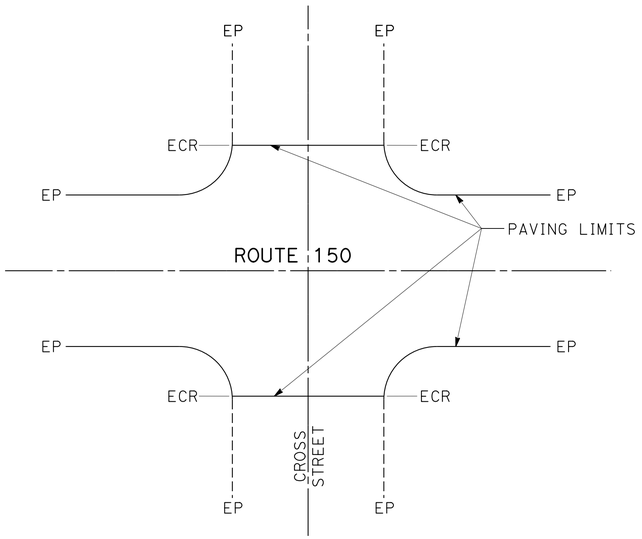
2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHN ZAKI No. C63665 Exp. 9-30-16 CIVIL — STATE OF CALIFORNIA

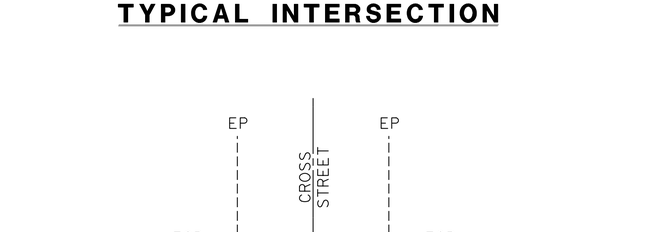
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

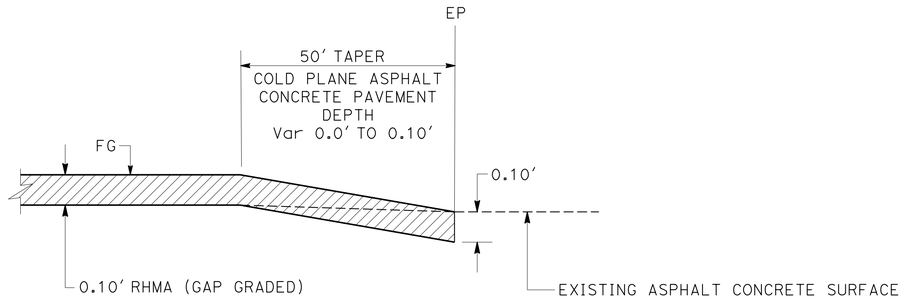
0.10′ COLD PLANE AC PAVEMENT
0.10′ RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



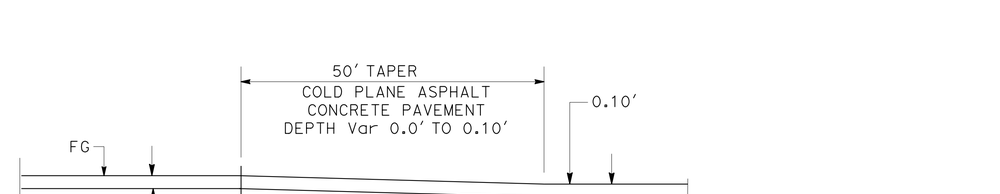
LIMITS OF PAVING AT TYPICAL INTERSECTION



LIMITS OF PAVING AT TYPICAL 'T' INTERSECTION



TYPICAL LONGITUDINAL TRANSITION TO CONFORM AC PAVEMENT



TYPICAL LONGITUDINAL TRANSITION AC PAVEMENT AT EXISTING MBGR OR BRIDGE DECK

CONSTRUCTION DETAILS

NO SCALE

C-2

REVISED BY | DATE REVISED
JOHN ZAKI | KEVIN KWAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KEVIN KWAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 02-22-16 | DATE PLOTTED => 18-FEB-2016 | TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s122436 | DGN FILE => 72w010ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	6	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

JOHN ZAKI No. C63665 Exp. 9-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

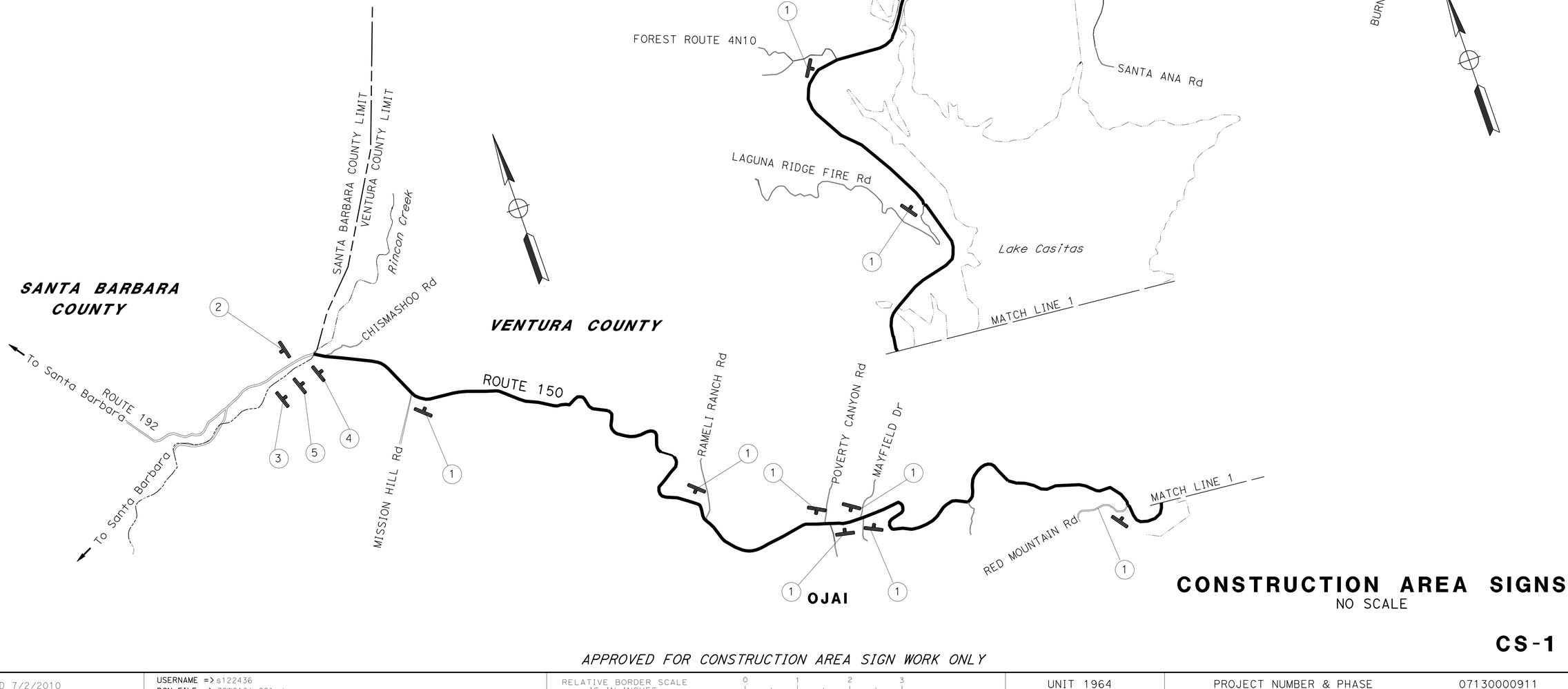
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
1	W20-1		30"x30"	ROAD WORK AHEAD	1 - 4" x 6"	30
2	G20-2		36"x18"	END ROAD WORK	1 - 4" x 4"	4
3		C40 (CA)	72"x36"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	1 - 6" x 6"	4
4	W20-1		36"x36"	ROAD WORK AHEAD	1 - 4" x 6"	2
5	G20-1		36"x18"	ROAD WORK NEXT 5 MILES	1 - 4" x 4"	4
6	W20-1		48"x48"	ROAD WORK AHEAD	1 - 6" x 6"	2

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE, EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.
3. PLACE "TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES" SIGNS APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" OR AS DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING
FUNCTIONAL SUPERVISOR: KEVIN KWAN
CALCULATED-DESIGNED BY: JOHN ZAKI
CHECKED BY: KEVIN KWAN
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 18-FEB-2016
02-22-16 | TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010
USERNAME => s122436
DGN FILE => 72W0101a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	7	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-16
CIVIL
STATE OF CALIFORNIA

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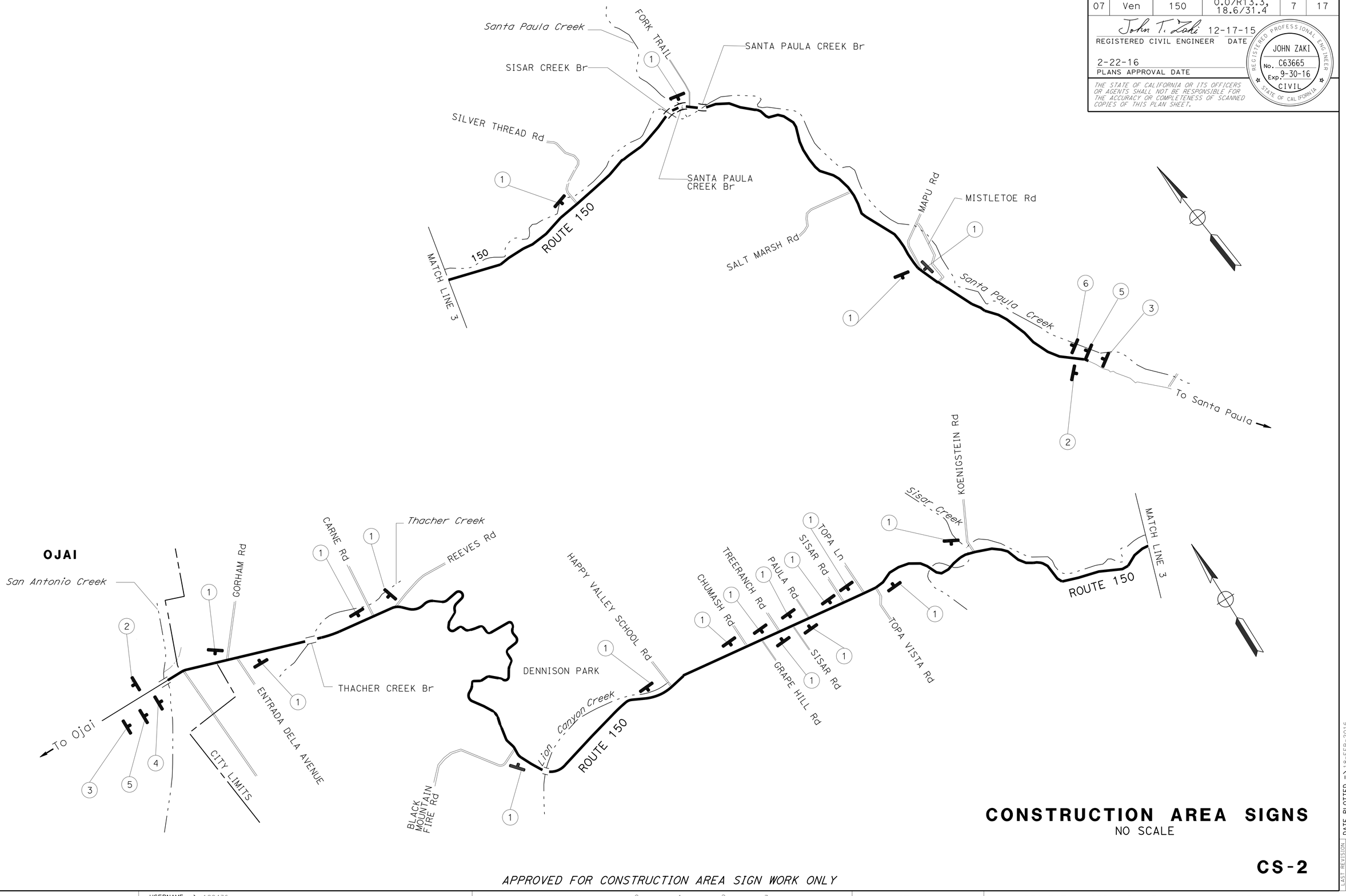

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: KEVIN KWAN
CALCULATED-DESIGNED BY: JOHN ZAKI
CHECKED BY: KEVIN KWAN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 18-FEB-2016
TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010
USERNAME => s122436
DGN FILE => 72W0101a002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	8	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-16
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.

NOTES:

1. QUANTITIES INCLUDE STRIPING ON BRIDGES.

PAVEMENT DELINEATION QUANTITIES

LOCATION (PM)	THERMOPLASTIC TRAFFIC STRIPE								THERMOPLASTIC PAVEMENT MARKING					PAVEMENT MARKER (RETROREFLECTIVE)	
	Det 6	Det 19	Det 31	Det 19	Det 22	Det 27B	Det 28	Det 31							
	4" YELLOW BROKEN(36-12)	4" YELLOW BROKEN(36-12)	4" YELLOW BROKEN(36-12)	4" YELLOW	4" YELLOW	4" WHITE	4" YELLOW	4" YELLOW	DIAGONAL/GORE MARKING 8" SOLID YELLOW	8" SOLID WHITE	CROSSWALK 12" SOLID YELLOW	WORDS	ARROWS	TYPE D	TYPE H
	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	SQFT	EA	EA
9.9/R13.3	1,590	530	530	530	23,760	35,900	14,780	530	160	600			150	1,020	12
18.6/19.8					12,670	12,670								265	
21.5/31.4	5,280	3,170		3,170	42,240	104,540					48	158		1,059	67
SUBTOTAL	6,870	3,700	530	3,700	78,670	153,110	14,780	530	160	600	48	158	150	2,344	79
TOTAL	11,100			250,790					1,116					2,423	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
FUNCTIONAL SUPERVISOR: KEVIN KWAN
CALCULATED-DESIGNED BY: JOHN ZAKI
CHECKED BY: KEVIN KWAN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 18-FEB-2016
02-22-16 TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010
USERNAME => s122436
DGN FILE => 72w010nc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1964
PROJECT NUMBER & PHASE 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	9	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-16
CIVIL
STATE OF CALIFORNIA

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PAVEMENT DELINEATION REMOVAL QUANTITIES

LOCATION (PM)	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER
	LF	LF	EA
0.0/9.9	92,648	92,648	3,864
9.9/R13.3	27,804	27,804	1,162
18.6/19.8	9,950	9,950	418
19.8/21.5	15,256	15,256	638
21.5/31.4	87,838	87,838	3,662
TOTAL	233,496	233,496	9,744

PAVEMENT DELINEATION QUANTITIES

LOCATION (PM)	PAINT TRAFFIC STRIPE (2-COAT)				PAVEMENT MARKER (RETROREFLECTIVE -RECESSED)	
	Det 6	Det 19	Det 22	Det 27B		
	4" YELLOW BROKEN (36-12)	4" YELLOWSOLID AND BROKEN (36-12)	4" YELLOW	4" WHITE	TYPE D	TYPE H
	LF	LF	LF	LF	EA	EA
0.0/9.9	5,280	4,220	43,820	104,550	2,117	177
19.8/21.5			8,980	17,950	377	
SUBTOTAL	5,280	4,220	52,800	122,500	2,494	177
TOTAL	184,800				2,671	

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: KEVIN KWAN

CALCULATED-DESIGNED BY: JOHN ZAKI
CHECKED BY: KEVIN KWAN

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 18-FEB-2016
02-22-16 | TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010

USERNAME => s122436
DGN FILE => 72w010nc002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1964 | PROJECT NUMBER & PHASE | 07130000911

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	150	0.0/R13.3, 18.6/31.4	10	17

John T. Zaki 12-17-15
REGISTERED CIVIL ENGINEER DATE

2-22-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN ZAKI
No. C63665
Exp. 9-30-16
CIVIL
STATE OF CALIFORNIA

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NOTE:

1. COLD PLANE ASPHALT CONCRETE PAVEMENT ITEM IS FOR GUARDRAIL LOCATIONS ONLY.

LEGEND:

(N) NOT A SEPERATE PAY ITEM, FOR INFORMATION ONLY

WB GUARDRAIL	
PM	LENGHT (FT) (N)
28.5	44
28.6	199
28.6	87
28.6	200
28.8	193
28.9	578
29.1	945
29.5	803
29.8	203
29.9	198
30.8	305
31.1	325

EB GUARDRAIL	
PM	LENGHT (FT) (N)
0.0	50.0
1.5	140
1.6	562
4.9	224
6.6	216
6.7	592
9.4	565
9.6	75
9.6	262
10.9	75
10.9	75
11.2	318
11.2	450
11.5	125
11.7	126
12.1	102
12.2	103
12.3	114
12.5	74
12.8	201
13.1	139

EB GUARDRAIL	
PM	LENGHT (FT) (N)
18.6	275
18.6	126
19.4	63
19.5	152
20.0	126
20.4	542
21.1	190
21.5	63
21.6	63
22.3	101
23.8	24
26.3	154
27.4	88
28.3	94
28.4	25
28.4	76
28.4	62
28.5	64
28.5	63
28.6	190
28.8	103
30.2	126
30.7	202
30.8	150

WB GUARDRAIL	
PM	LENGHT (FT) (N)
0.0	50.0
4.0	89
4.9	87
5.0	135
5.0	134
7.0	195
7.2	398
7.4	515
8.7	223
9.0	575
9.1	312
9.2	236
9.7	75
9.8	238
10.0	133
10.2	882
11.1	74
11.1	425
11.6	126
11.9	102
12.4	114
13.0	152
R13.3	140

WB GUARDRAIL	
PM	LENGHT (FT) (N)
18.8	314
18.8	99
18.9	289
19.6	43
20.2	140
20.3	87
20.4	100
20.8	100
21.7	63
21.7	64
22.4	103
22.9	966
23.9	63
24.0	23
26.1	106
26.2	115
26.5	152
27.5	93
27.6	64
27.6	62
27.8	192
28.5	50
28.5	82

ROADWAY QUANTITIES

DIRECTION	PM	COLD PLANE ASPHALT CONCRETE PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT	ADJUST MANHOLE TO GRADE	SHOULDER BACKING
		SQYD	TON	TON	EA	TON
EB	0.0/R13.3	8,920	6,150	15.6	2	950
	18.6/31.4	7,360	5,920	15.0		930
WB	0.0/R13.3	10,280	6,150	15.6	15	940
	18.6/31.4	14,600	5,920	15.0		850
TOTAL		41,160	24,140	61.2	17	3,670

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
JOHN ZAKI | KEVIN KWAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: KEVIN KWAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 18-FEB-2016
02-22-16 | TIME PLOTTED => 16:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s122436 | DGN FILE => 72w010pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1964 | PROJECT NUMBER & PHASE 07130000911

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
Mtl	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

Oblr	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 Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,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
℄	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

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	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 No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	11	17

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Grace M. Tsushima No. C49814 Exp. 9-30-14 CIVIL — STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 2-22-16

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
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

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

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	12	17

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-15
CIVIL
STATE OF CALIFORNIA

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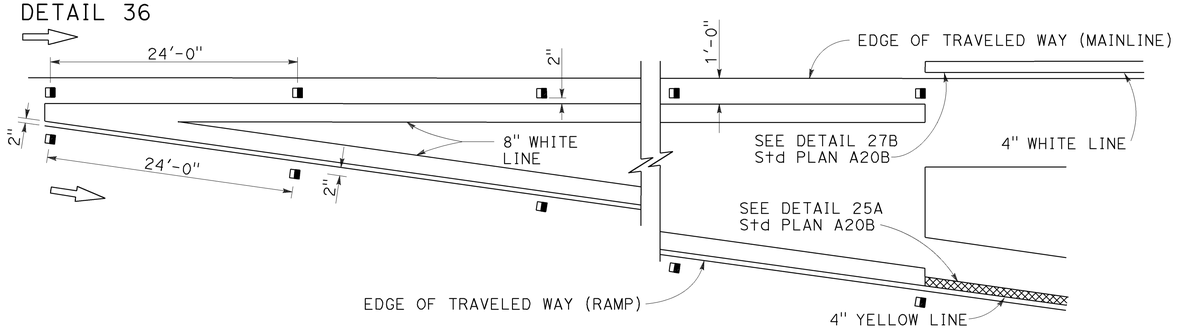
TO ACCOMPANY PLANS DATED 2-22-16

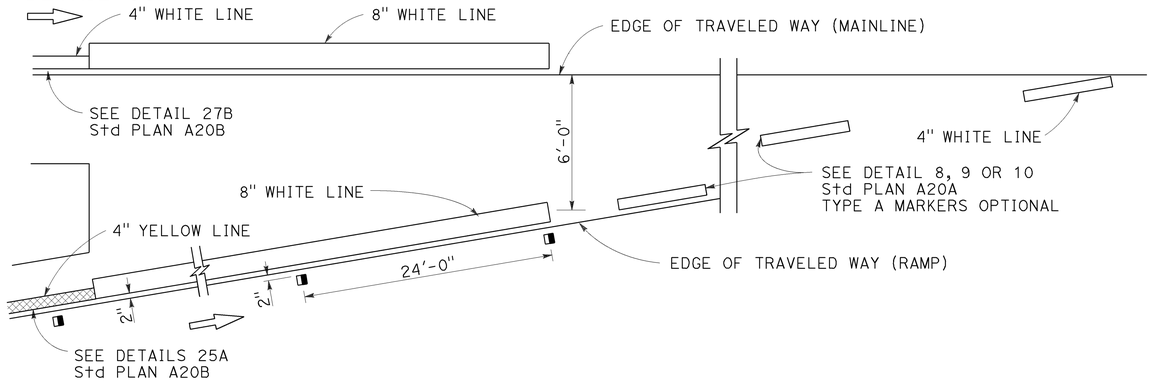
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



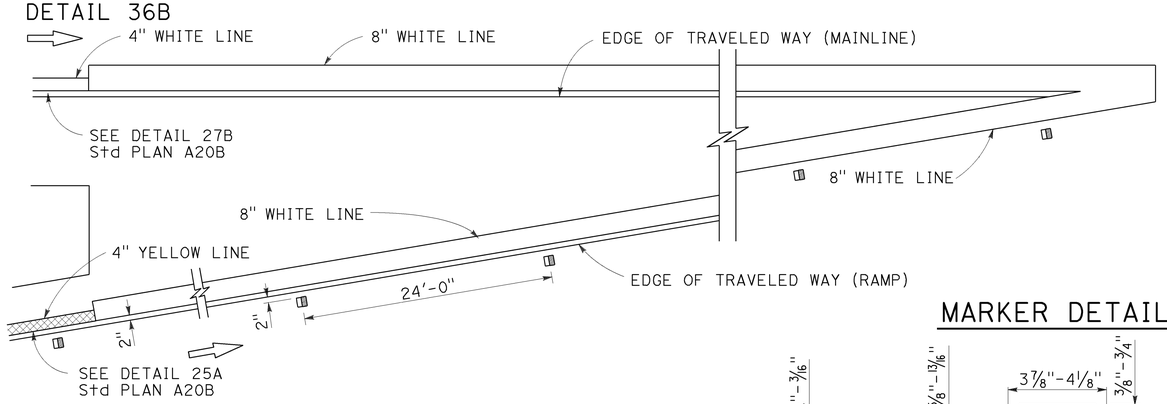
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



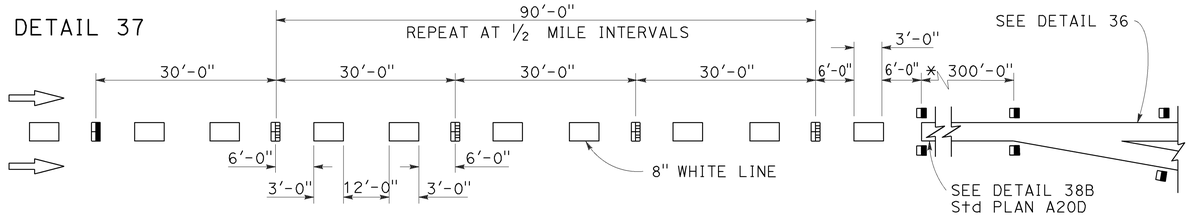
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

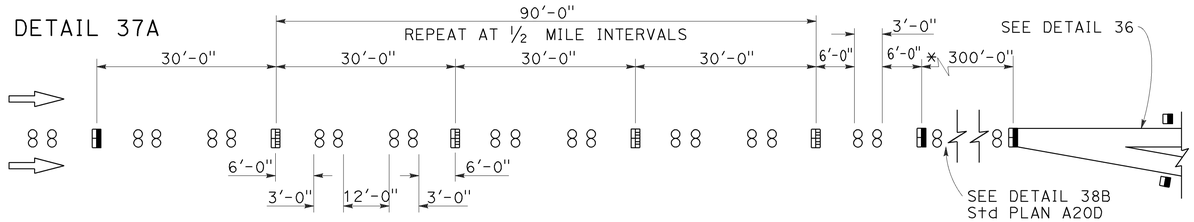


LANE DROP AT EXIT RAMPS

DETAIL 37



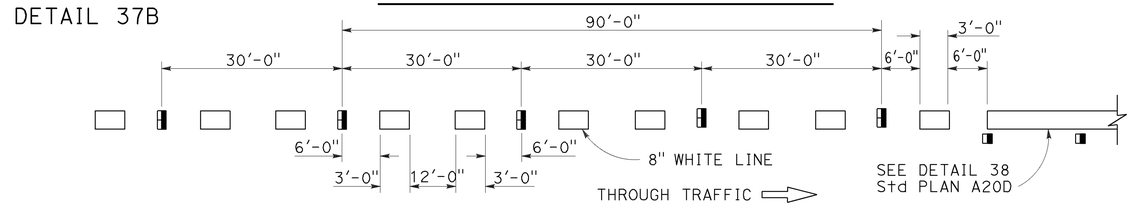
DETAIL 37A



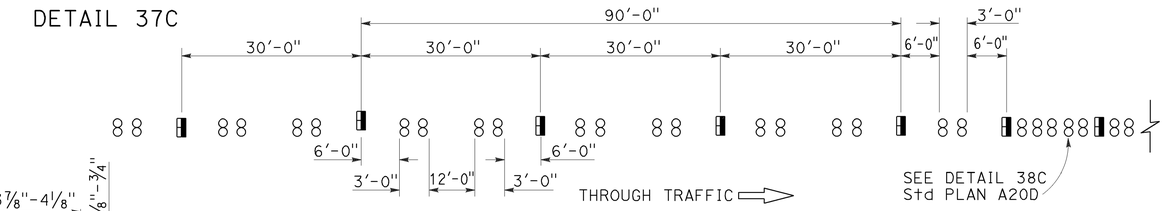
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

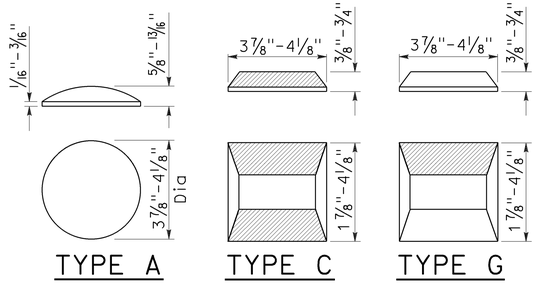
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ▣ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	13	17

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Roberta L. McLaughlin — No. C40375 — Exp. 3-31-13 — CIVIL — STATE OF CALIFORNIA

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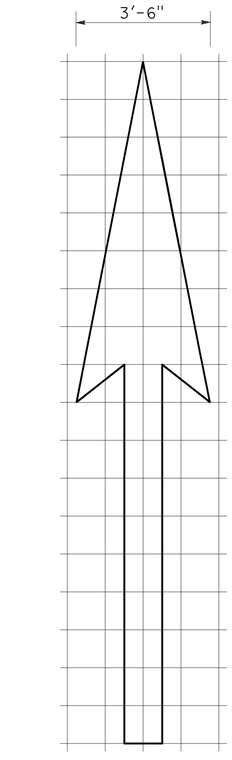
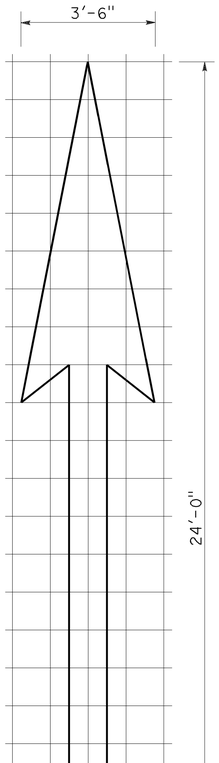
TO ACCOMPANY PLANS DATED 2-22-16



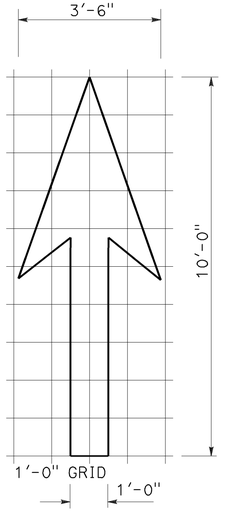
A=25 ft²

TYPE I 18'-0" ARROW



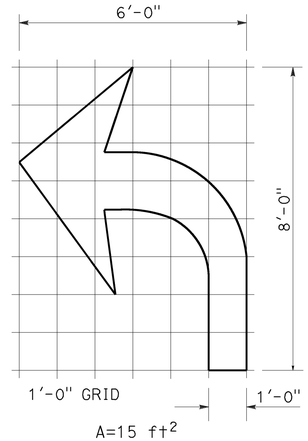
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

TYPE I 10'-0" ARROW

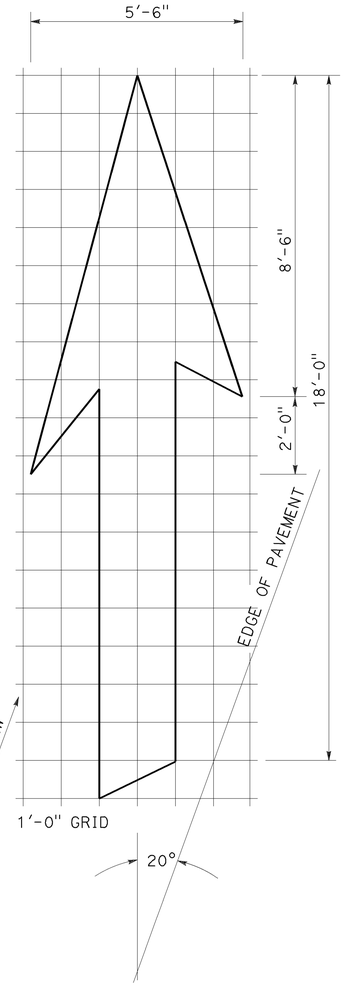


A=15 ft²

TYPE IV (L) ARROW

(For Type IV (R) arrow, use mirror image)

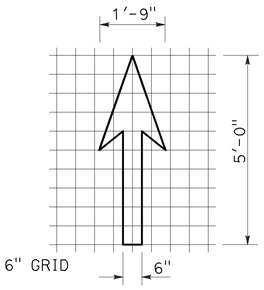
NOTE:
Minor variations in dimensions may be accepted by the Engineer.



A=42 ft²

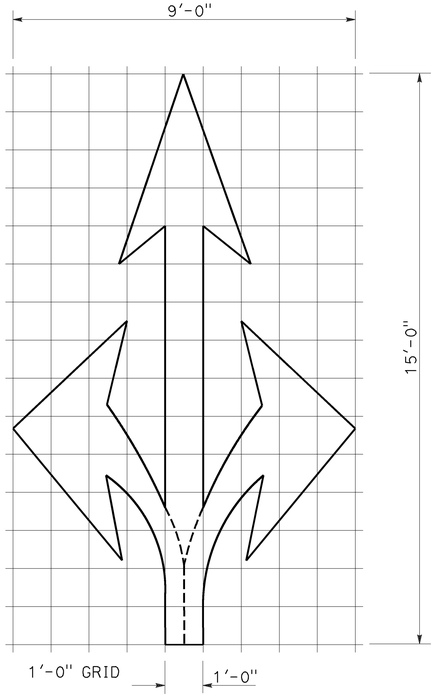
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



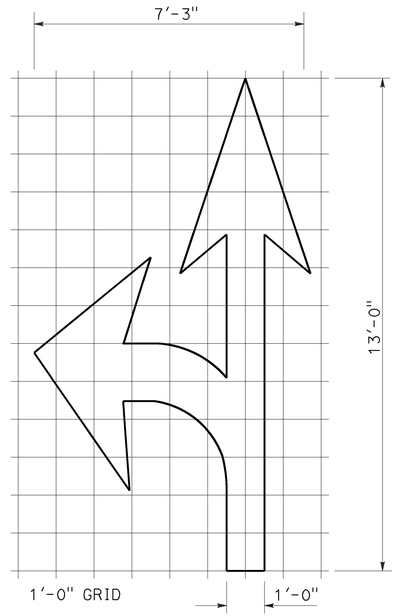
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

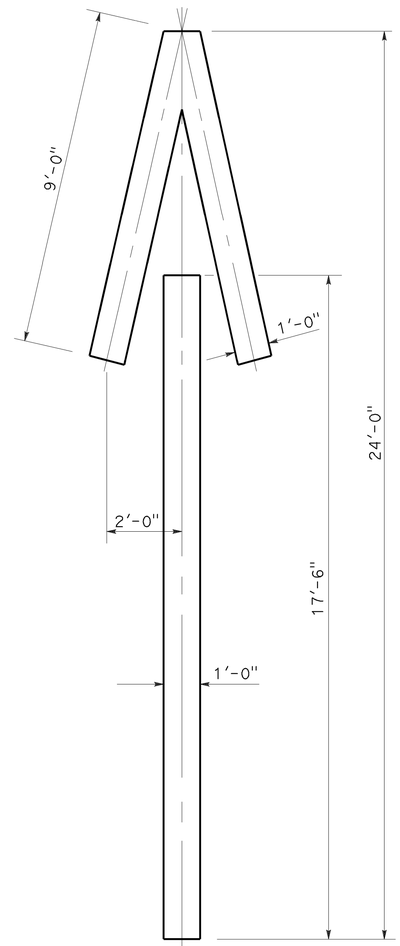
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	14	17

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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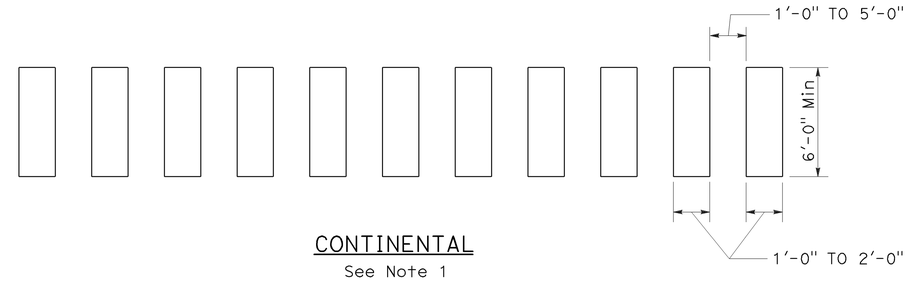
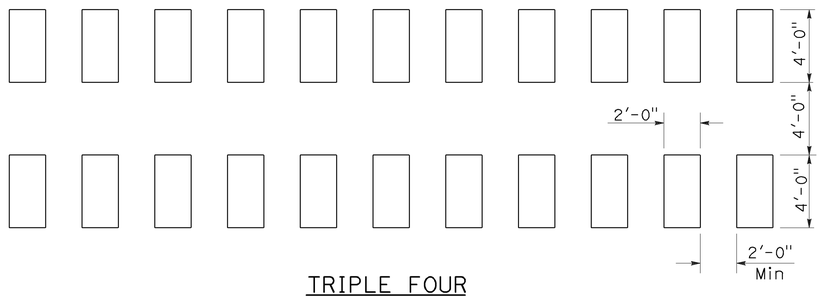
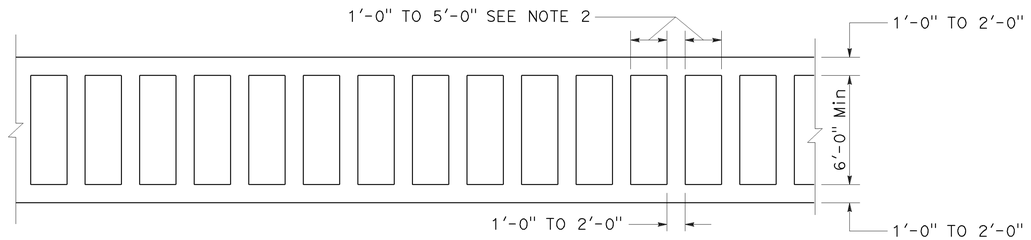
TO ACCOMPANY PLANS DATED 2-22-16



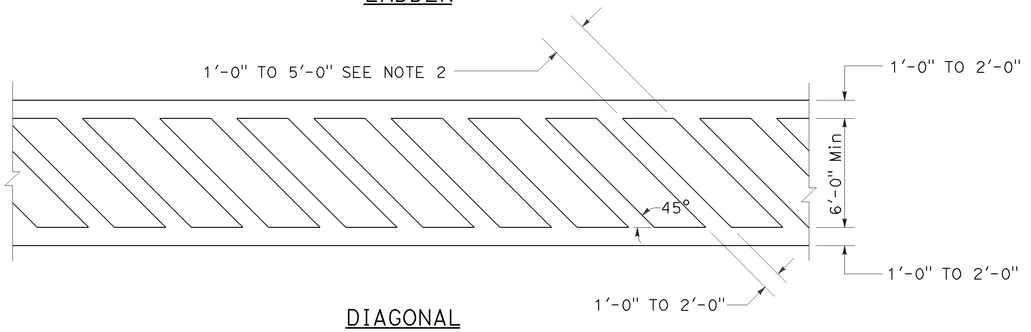
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER



DIAGONAL

HIGHER VISIBILITY CROSSWALKS

BASIC

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	15	17

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 2-22-16

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		
					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 recommmended 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

2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	16	17

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Gurinderpal Bhullar — No. C48815 — Exp. 9-30-14 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.

TO ACCOMPANY PLANS DATED 2-22-16

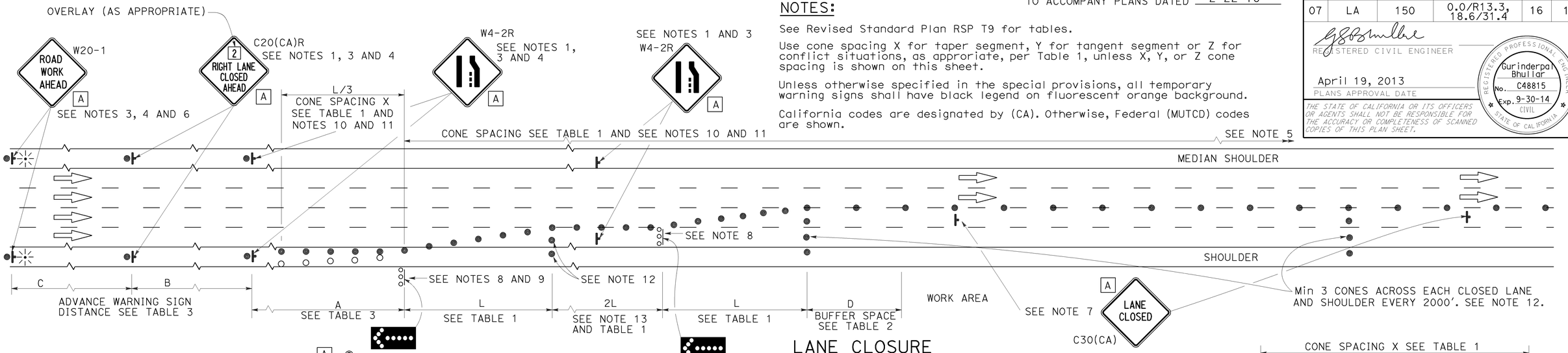
NOTES:

See Revised Standard Plan RSP T9 for tables.

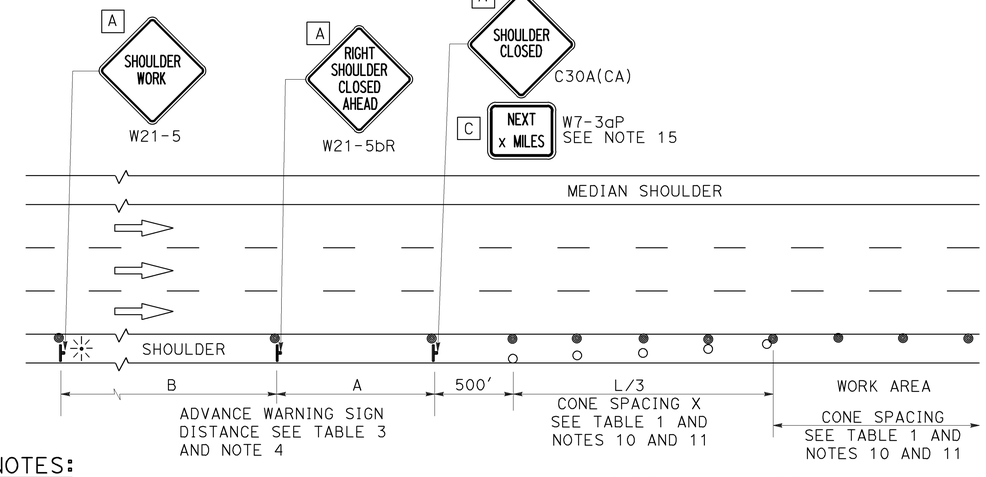
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

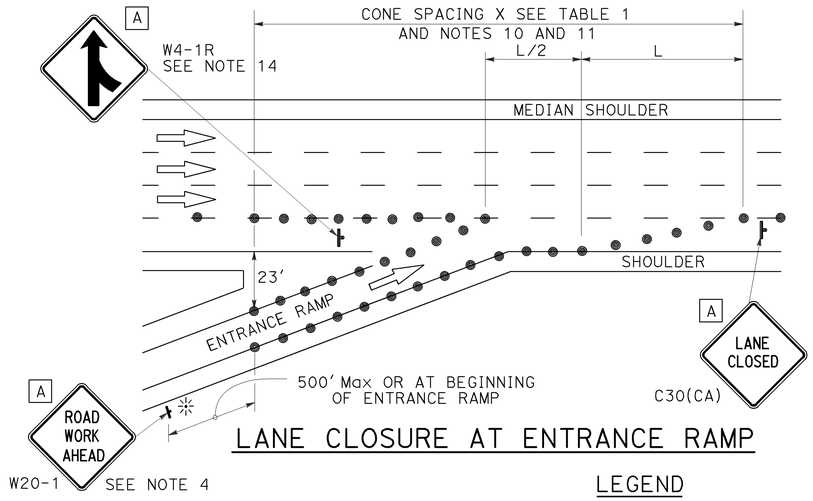
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



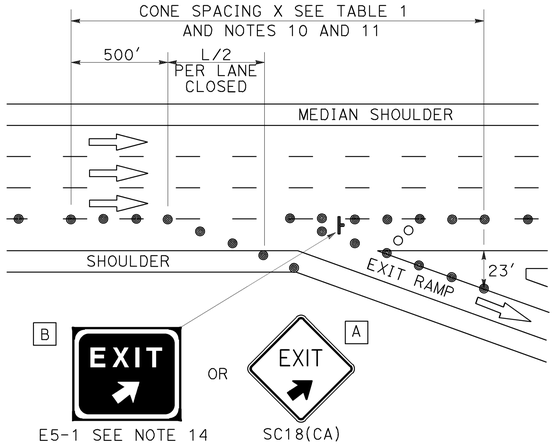
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

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.
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) sign for the first advance warning sign.
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.
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 theshoulder 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

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	150	0.0/R13.3, 18.6/31.4	17	17

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.

TO ACCOMPANY PLANS DATED 2-22-16

NOTES:

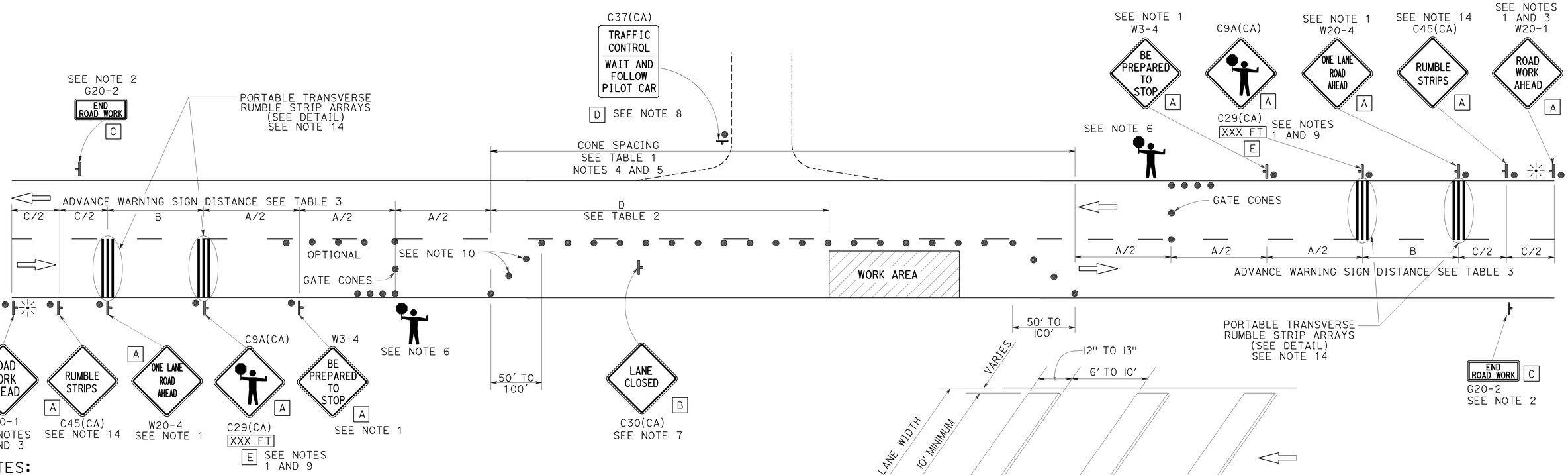
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, 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.

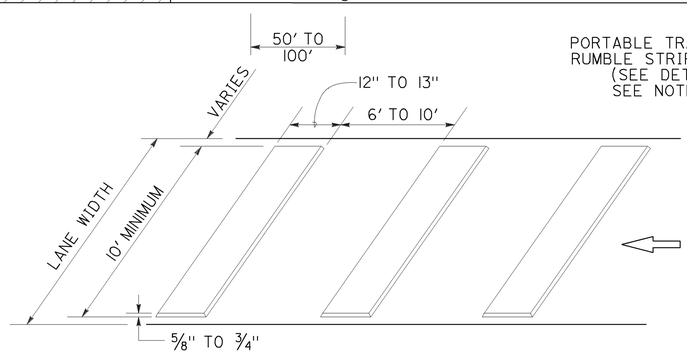
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



NOTES:

1. 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.
2. 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.
3. 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.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. 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.
7. 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.
8. 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.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
11. The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
12. Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
13. 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.
14. Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
    A. Work duration occupies a location for four hours or less
    B. Posted speed limit is below 45 MPH
    C. Work is of emergency nature
    D. Work zone is in snow or icy weather conditions



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"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

10-13-15