Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	1	30

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATIONS MAP
2	LOCATIONS OF CONSTRUCTION
3-11	CONSTRUCTION AREA SIGNS
12	PAVEMENT DELINEATION QUANTITIES
13-16	REVISED STANDARD PLANS
	STRUCTURE PLANS
17-28	GENERAL PLANS
29	JOINT SEAL TABLE AND DETAILS
30	DECK REPAIR TABLE AND DETAILS

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

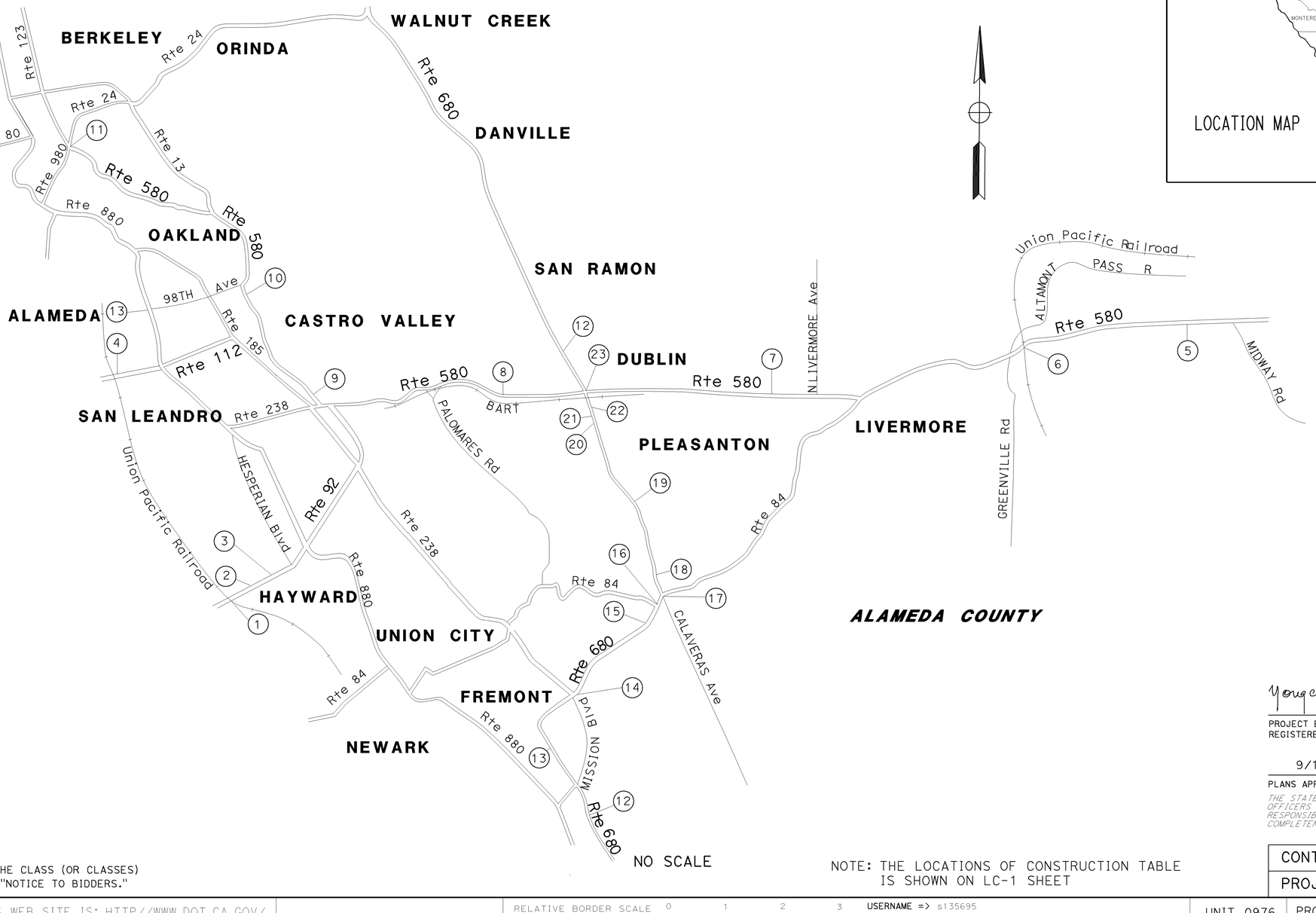
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN ALAMEDA COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



NO SCALE

NOTE: THE LOCATIONS OF CONSTRUCTION TABLE IS SHOWN ON LC-1 SHEET

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

PROJECT MANAGER: RAMSES SARGISS

DESIGN ENGINEER: CHOON F. YONG

Youngchoon Fou — 08/10/10

PROJECT ENGINEER / REGISTERED CIVIL ENGINEER — DATE

9/13/10

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Choon F. Young — No. 51254 — Exp. 9-30-11 — 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.	04-1E9504
PROJECT ID	0400000589

DATE PLOTTED => 16-SEP-2010
TIME PLOTTED => 08:48

LAST REVISION 07-08-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	2	30

Yongchoon Fu 8/10/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Choon F. Young
No. 51254
Exp 9-30-11
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.

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE No.	BRIDGE NAME
(1)	ALA	92	R4.91	33 0092	MOUNT EDEN OVERHEAD
(2)	ALA	92	R5.12	33 0370	INDUSTRIAL Blvd UC
(3)	ALA	92	R5.76	33 0445	HESPERIAN Blvd OC
(4)	ALA	112	R0.06	33 0082	MULFORD OVERHEAD
(5)	ALA	580	R1.48	33 0196L	GRANT LINE Rd
(6)	ALA	580	R8.00	33 0121R	GREENVILLE OVERHEAD
(7)	ALA	580	13.22	33 0140	PORTOLA Ave OC
(8)	ALA	580	R23.86	33 0192L	SCHAEFER RANCH Rd UC
(9)	ALA	580	R31.34	33 0396R	167TH Ave UC
(10)	ALA	580	R34.48	33-0332	ESTUDILLO Ave UC
(11)	ALA	580	45.25	33-0299K	MARTIN LUTHUR KING JR UC ON RAMP
(12)	ALA	680	R20.73	33 0356	AMADOR VALLEY Blvd UC
(13)	ALA	880	24.74	33 0110	98TH Ave OC
(14)	ALA	680	R6.38	33 0294	MISSION SAN JOSE SEPARATION
(15)	ALA	680	R10.15	33 0047	ALAMEDA Cr
(16)	ALA	680	R11.03	33 0351	CALAVERAS Rd SEPARATION
(17)	ALA	680	R11.81	33 0352	SCOTTS CORNER SEPARATION
(18)	ALA	680	R12.44	33 0386R	KOOPMANN Rd UC
(19)	ALA	680	R15.04	33 0385	HAPPY VALLEY Rd UC
(20)	ALA	680	R19.07	33 0580S	ALAMO CANAL (SR1 OFF-RAMP)
(21)	ALA	680	R19.18	33 0581S	ALAMO CANAL (SR2 ON-RAMP)
(22)	ALA	680	R19.32	33 0582S	ALAMO CANAL (SR3 ON-RAMP)
(23)	ALA	680	R20.01	33 0643G	N680-E580 CONNECTOR

REVISED BY | DATE REVISED

PATRICK HO
CHOON F. YONG

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
RAMSES SARGISS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LOCATIONS OF CONSTRUCTION

LC-1

LAST REVISION | DATE PLOTTED => 16-SEP-2010
07-08-10 | TIME PLOTTED => 08:48

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	3	30

Florante P. Perez 8/10/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Florante P. Perez No. 41030 Exp 3-31-11 CIVIL — STATE OF CALIFORNIA

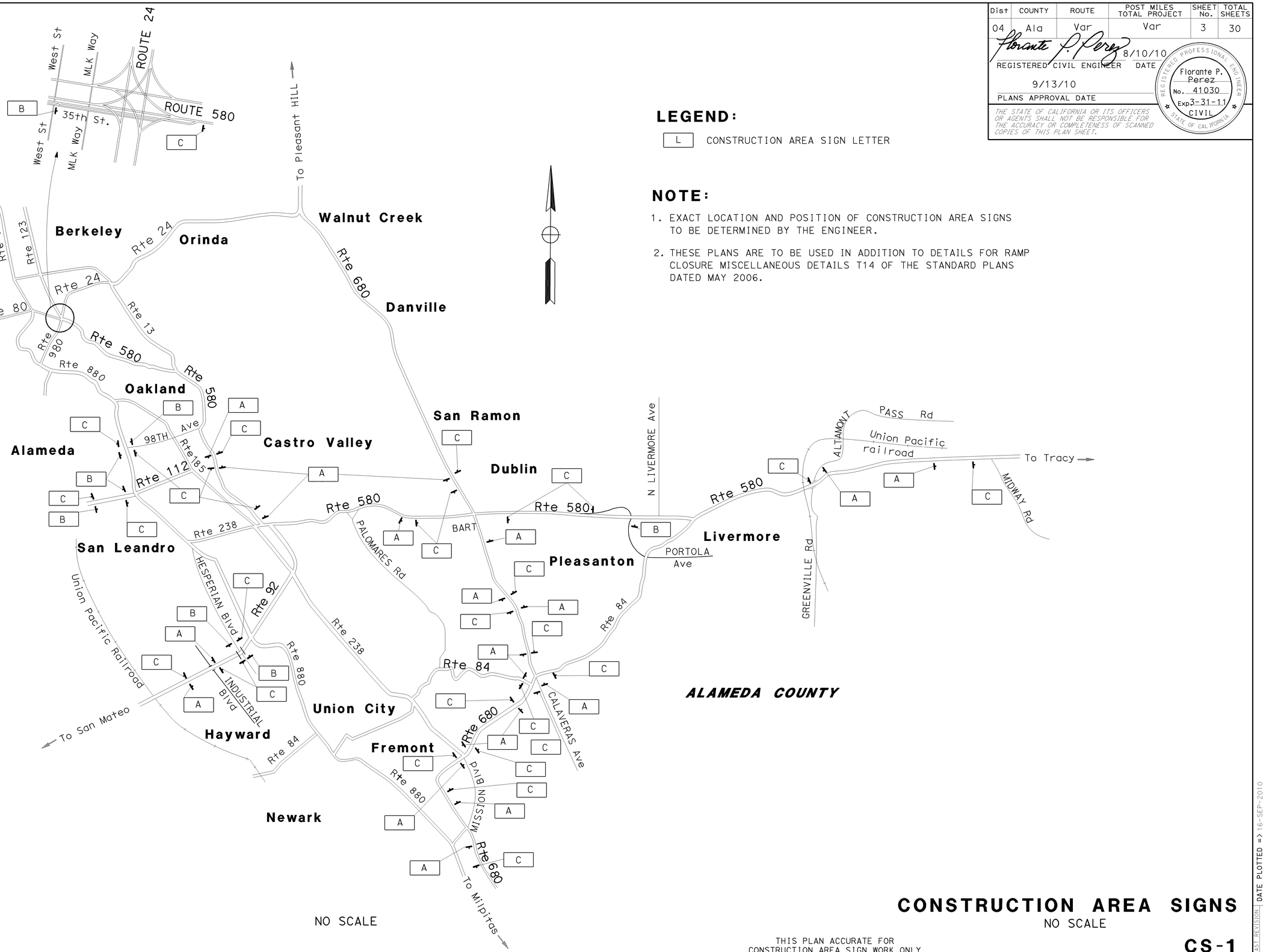
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

[L] CONSTRUCTION AREA SIGN LETTER

NOTE:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. THESE PLANS ARE TO BE USED IN ADDITION TO DETAILS FOR RAMP CLOSURE MISCELLANEOUS DETAILS T14 OF THE STANDARD PLANS DATED MAY 2006.



NO SCALE

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

CALCULATED-DESIGNED BY	CLAUDIA FANG LEOPOLDO G. BONGATO
CHECKED BY	FLORANTE P. PEREZ
REVISED BY	CF
DATE REVISED	04/25/10
FUNCTIONAL SUPERVISOR	LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION | DATE PLOTTED => 16-SEP-2010
07-08-10 | TIME PLOTTED => 08:49

BORDER LAST REVISED 7/2/2010 | USERNAME => s135695 | DGN FILE => 41e9501a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0976 | PROJECT NUMBER & PHASE | 04000005890

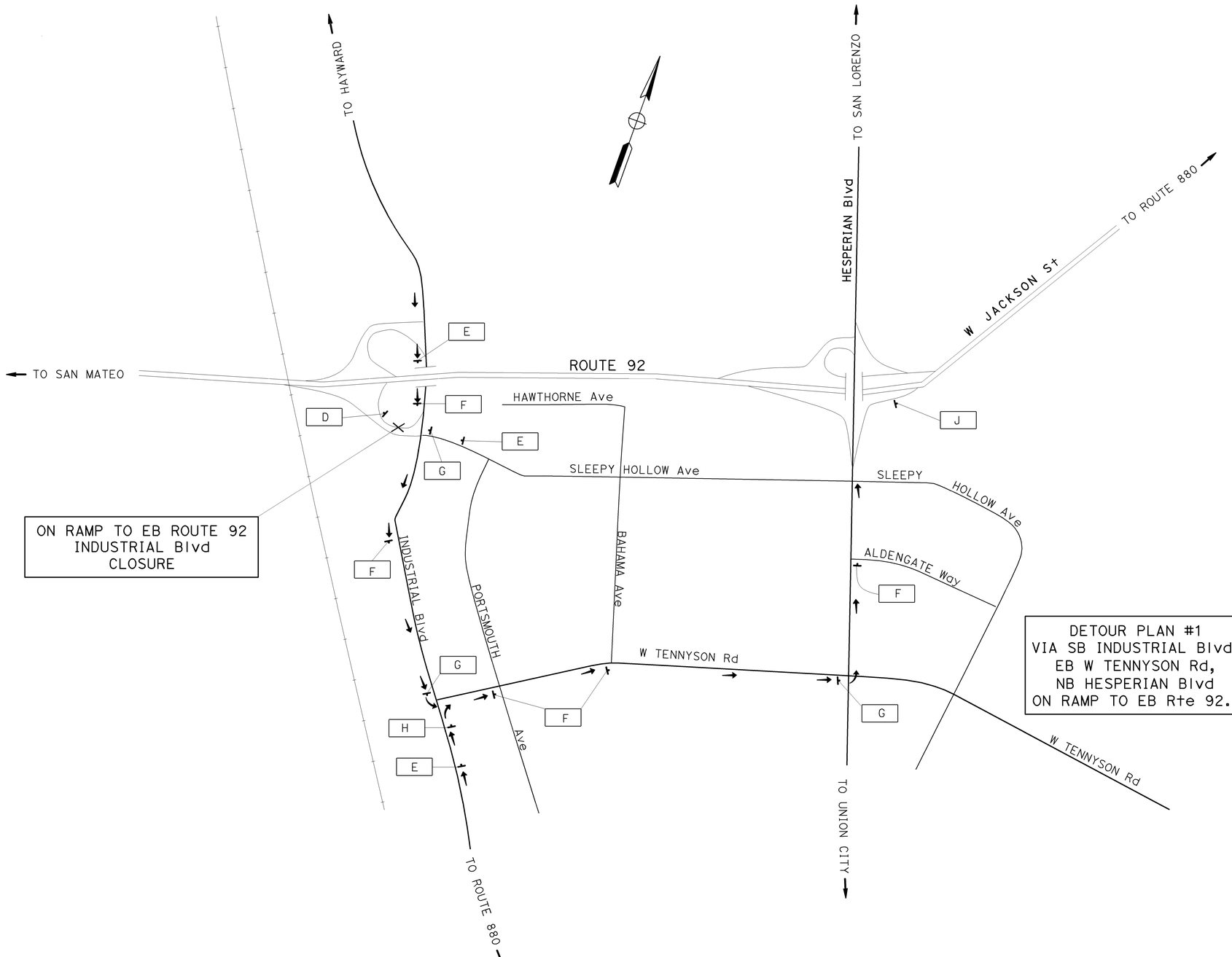
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	4	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Florante P. Perez
No. 41030
Exp. 3-31-11
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.



ON RAMP TO EB ROUTE 92
INDUSTRIAL Blvd
CLOSURE

DETOUR PLAN #1
VIA SB INDUSTRIAL Blvd,
EB W TENNYSON Rd,
NB HESPERIAN Blvd
ON RAMP TO EB Rte 92.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
DETOUR PLAN

NO SCALE

CS-2

CALCULATED-DESIGNED BY: CLAUDIA FANG
CHECKED BY: FLORANTE P. PEREZ
REVISED BY: CF
DATE REVISED: 04/25/10
FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

LAST REVISION: DATE PLOTTED => 16-SEP-2010 TIME PLOTTED => 08:49

BORDER LAST REVISED 7/2/2010

USERNAME => s135695
DGN FILE => 41e9501a002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0976 | PROJECT NUMBER & PHASE 04000005890

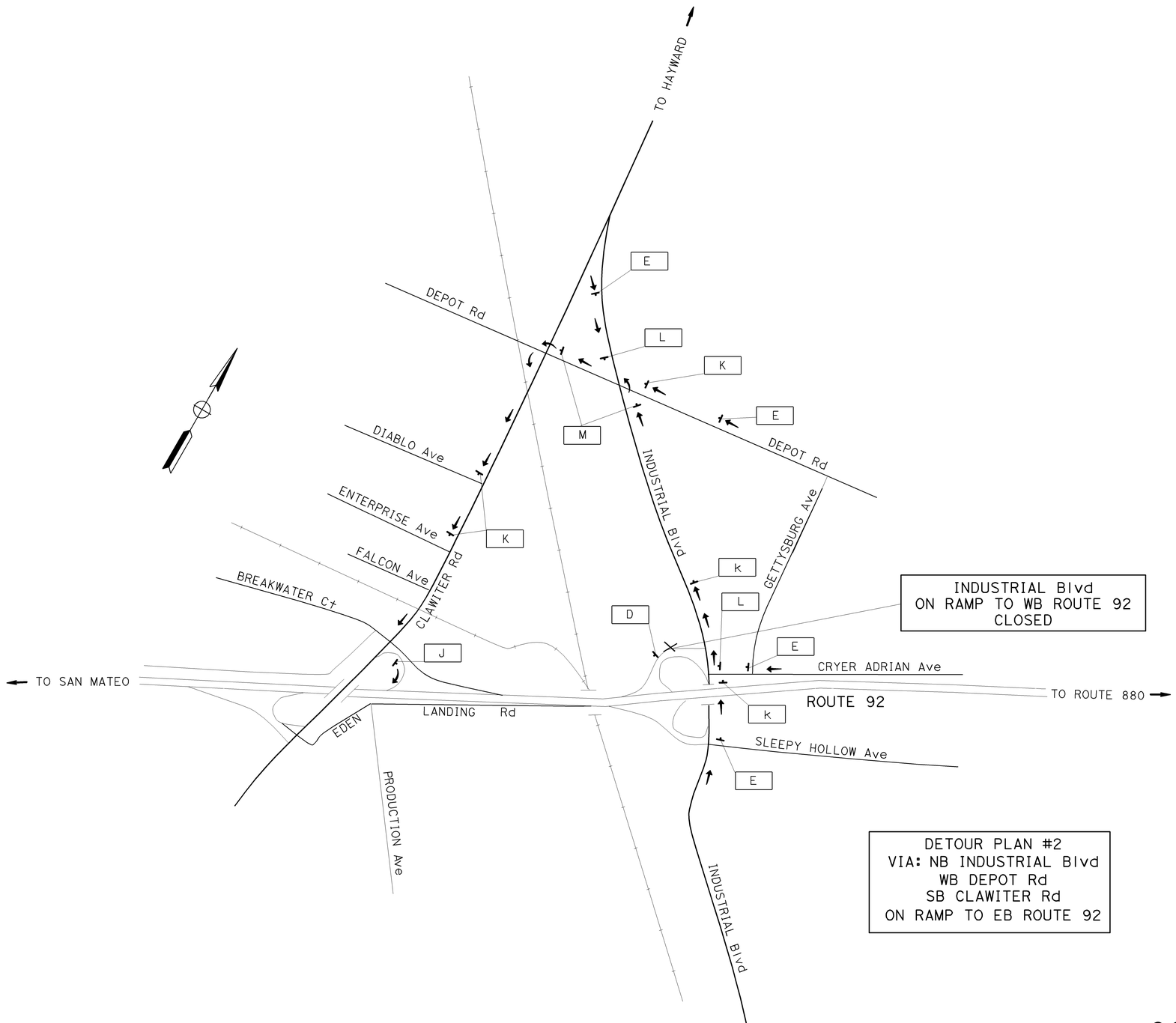
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	5	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Florante P. Perez
No. 41030
Exp. 3-31-11
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.



FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
DETOUR PLAN

NO SCALE

CS-3

CALCULATED-DESIGNED BY	
CHECKED BY	04/25/10
	REVISED BY
CLAUDIA FANG	DATE REVISED
FLORANTE P. PEREZ	
FUNCTIONAL SUPERVISOR	
LOURDES DAVID	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION
DATE PLOTTED => 16-SEP-2010
TIME PLOTTED => 08:50
07-09-10

BORDER LAST REVISED 7/2/2010
USERNAME => s135695
DGN FILE => 41e9501a003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0976
PROJECT NUMBER & PHASE 04000005890

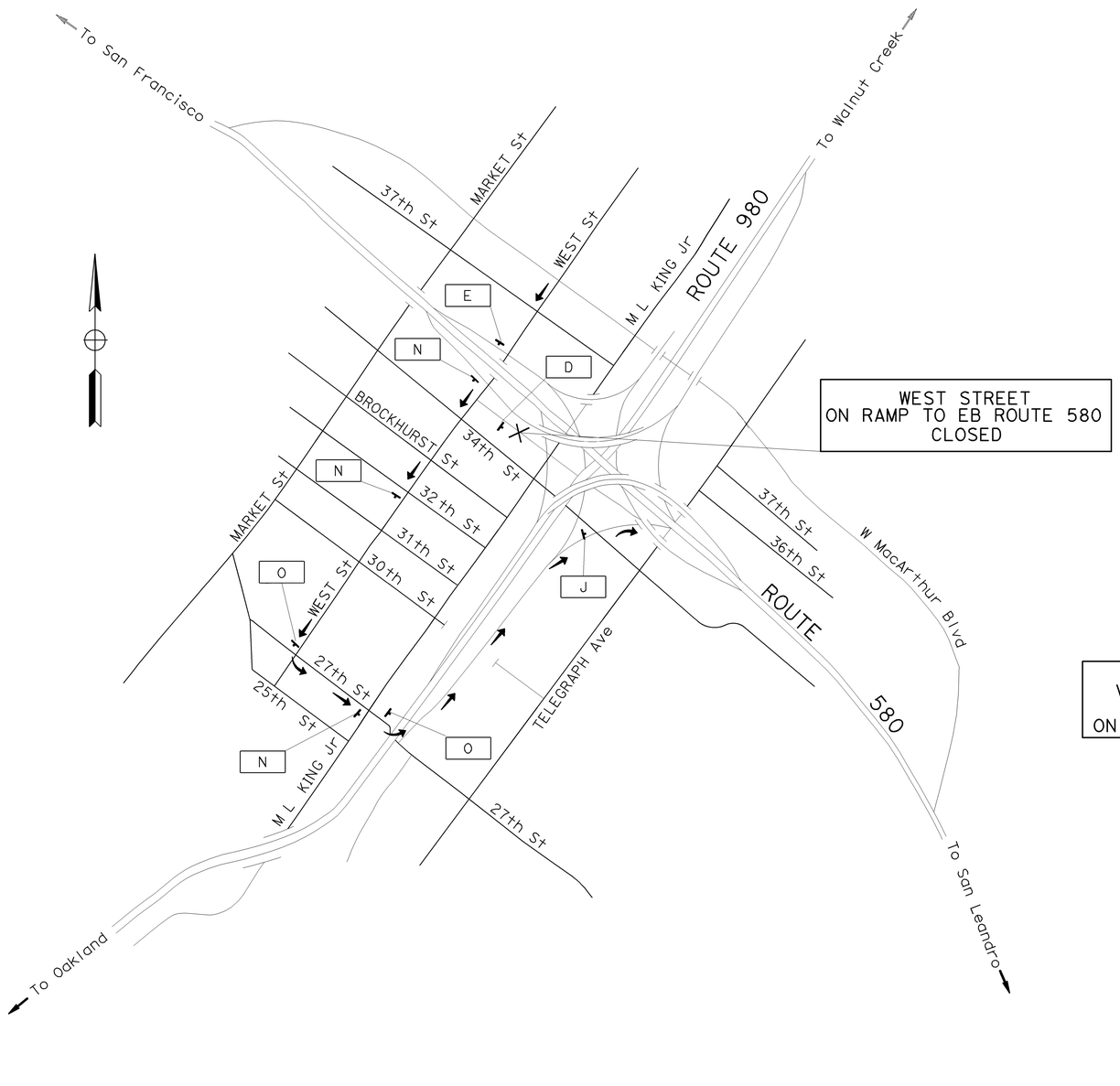
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	6	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Florante P. Perez — No. 41030 — Exp. 3-31-11 — 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.



DETOUR PLAN #3
VIA WB WEST STREET
EB27th STREET
ON RAMP TO EB RTE 580

CONSTRUCTION AREA SIGNS
DETOUR PLAN

NO SCALE

CS-4

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CALCULATED-DESIGNED BY	CF	04/25/10
CHECKED BY	FLORANTE P. PEREZ	DATE REVISED
	CLAUDIA FANG	REVISED BY
FUNCTIONAL SUPERVISOR	LOURDES DAVID	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 07-09-10 | DATE PLOTTED => 16-SEP-2010 | TIME PLOTTED => 11:03

BORDER LAST REVISED 7/2/2010 | USERNAME => s135695 | DGN FILE => 41e9501a004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0976 | PROJECT NUMBER & PHASE 04000005890

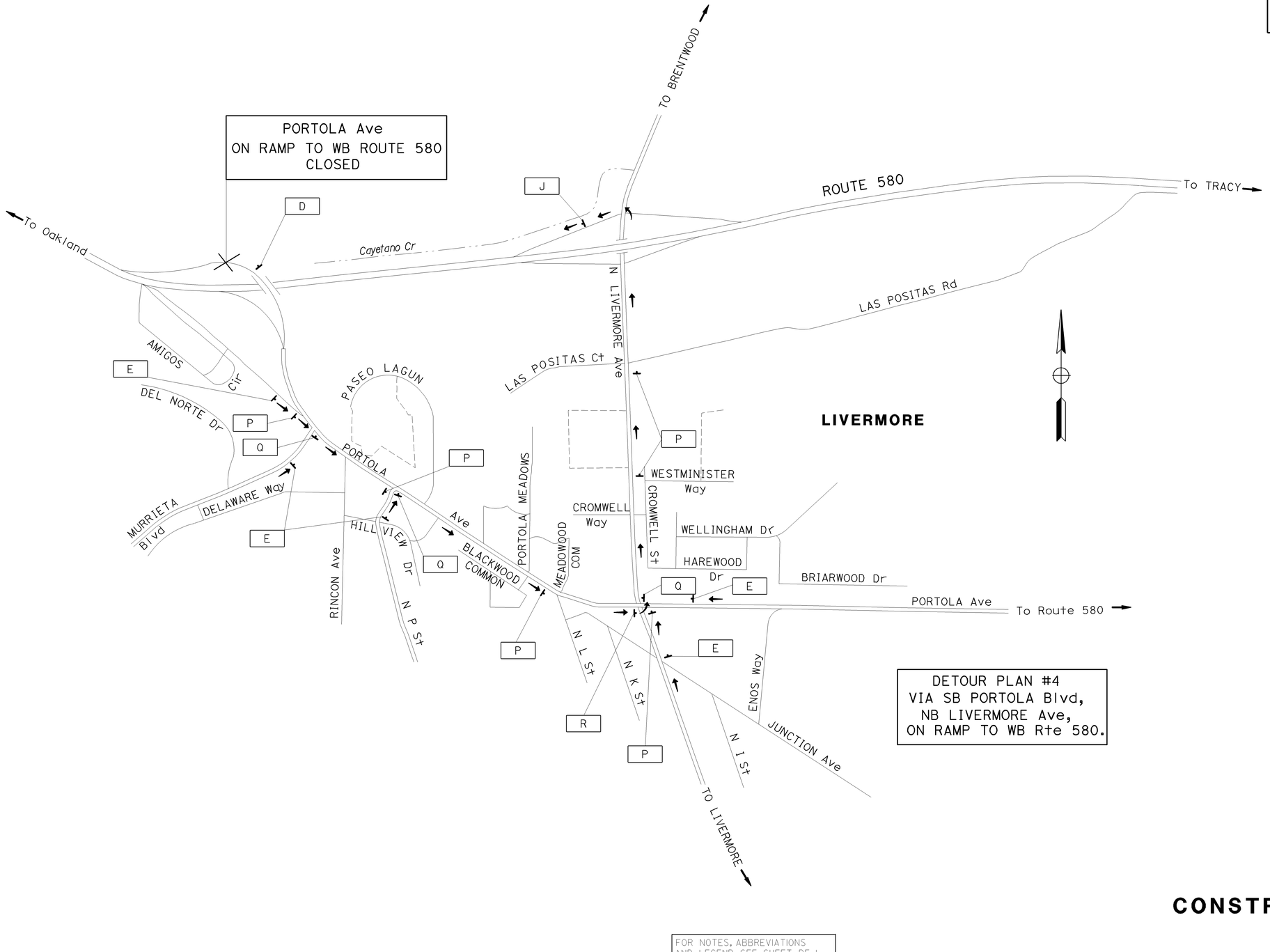
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	7	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Florante P. Perez
No. 41030
Exp. 3-31-11
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.



DETOUR PLAN #4
VIA SB PORTOLA Blvd,
NB LIVERMORE Ave,
ON RAMP TO WB Rte 580.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

CONSTRUCTION AREA SIGNS
DETOUR PLAN

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-5

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
CLAUDIA FANG	FLORANTE P. PEREZ	CF	04/25/10

FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

LAST REVISION: DATE PLOTTED => 16-SEP-2010 TIME PLOTTED => 08:51

BORDER LAST REVISED 7/2/2010

USERNAME => s135695
DGN FILE => 41e9501a005.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0976 | PROJECT NUMBER & PHASE 04000005890

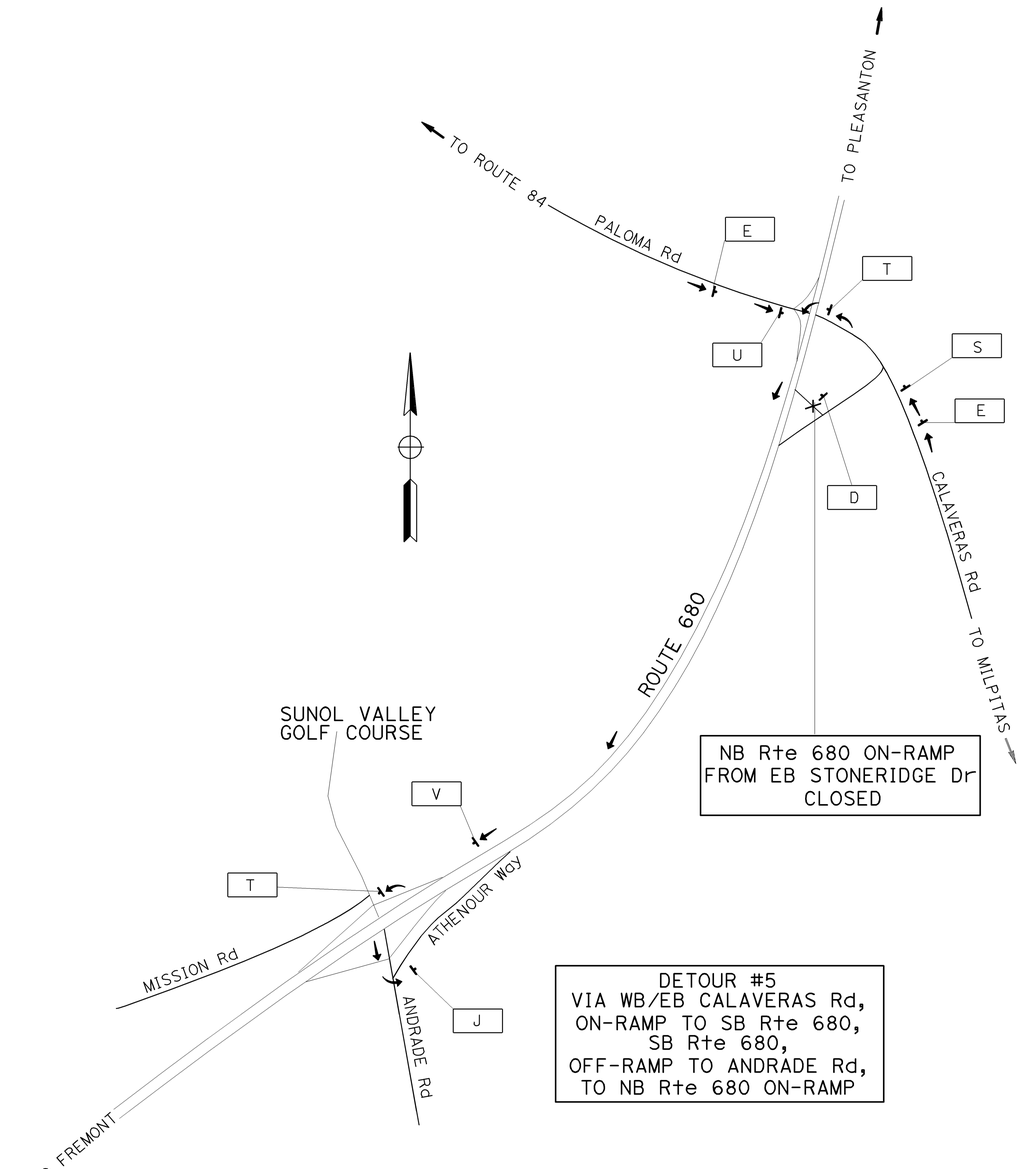
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	8	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

9/13/10
PLANS APPROVAL DATE

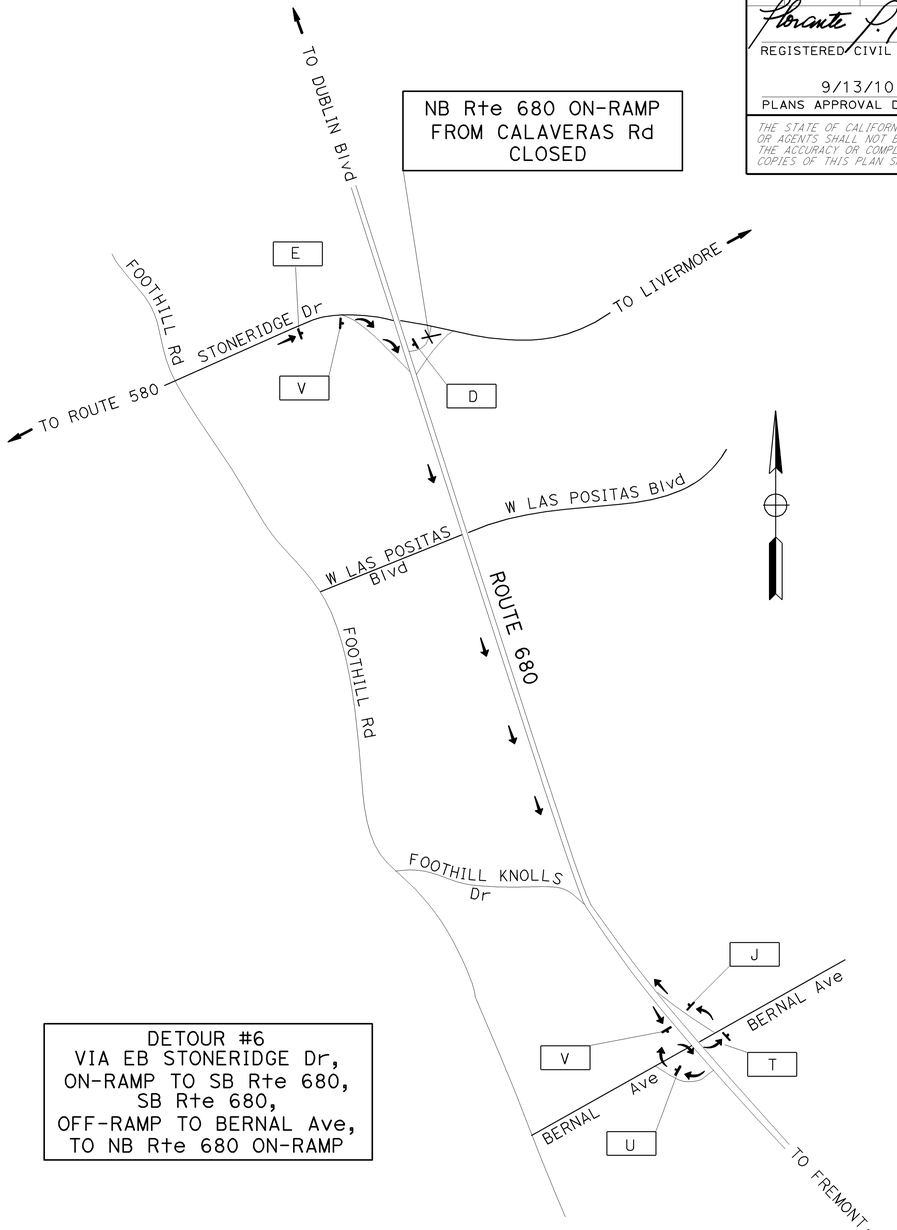
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NB Rte 680 ON-RAMP FROM EB STONERIDGE Dr CLOSED

DETOUR #5
VIA WB/EB CALAVERAS Rd,
ON-RAMP TO SB Rte 680,
SB Rte 680,
OFF-RAMP TO ANDRADE Rd,
TO NB Rte 680 ON-RAMP

NB Rte 680 ON-RAMP FROM CALAVERAS Rd CLOSED



DETOUR #6
VIA EB STONERIDGE Dr,
ON-RAMP TO SB Rte 680,
SB Rte 680,
OFF-RAMP TO BERNAL Ave,
TO NB Rte 680 ON-RAMP

CONSTRUCTION AREA SIGNS
DETOUR PLAN

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-6

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

CALCULATED-DESIGNED BY	CF	04/25/10
CHECKED BY	FLORANTE P. PEREZ	DATE REVISED
	CLAUDIA FANG	REVISED BY

FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC

Caltrans

LAST REVISION DATE PLOTTED => 16-SEP-2010
TIME PLOTTED => 08:51
07-07-10

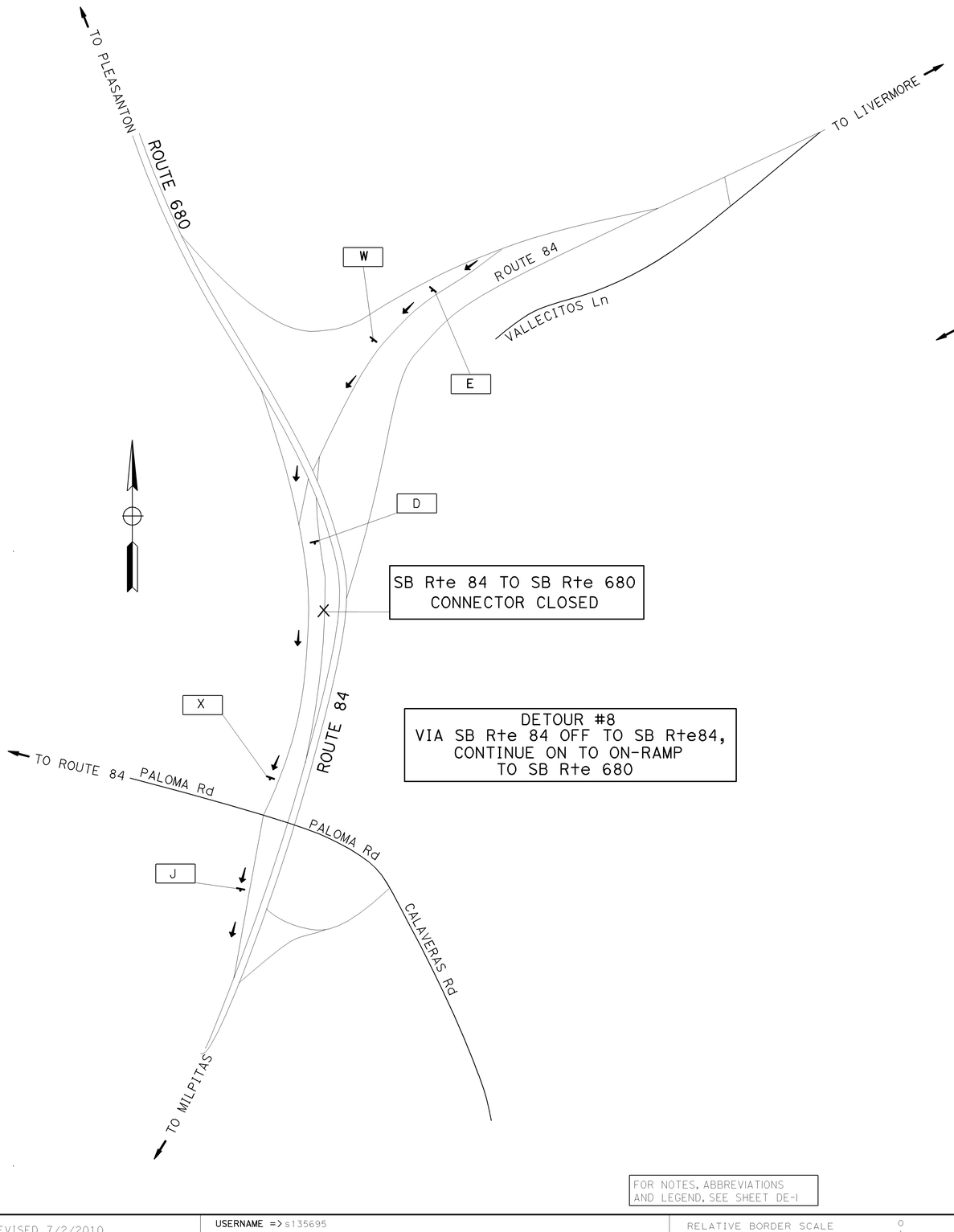
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	9	30

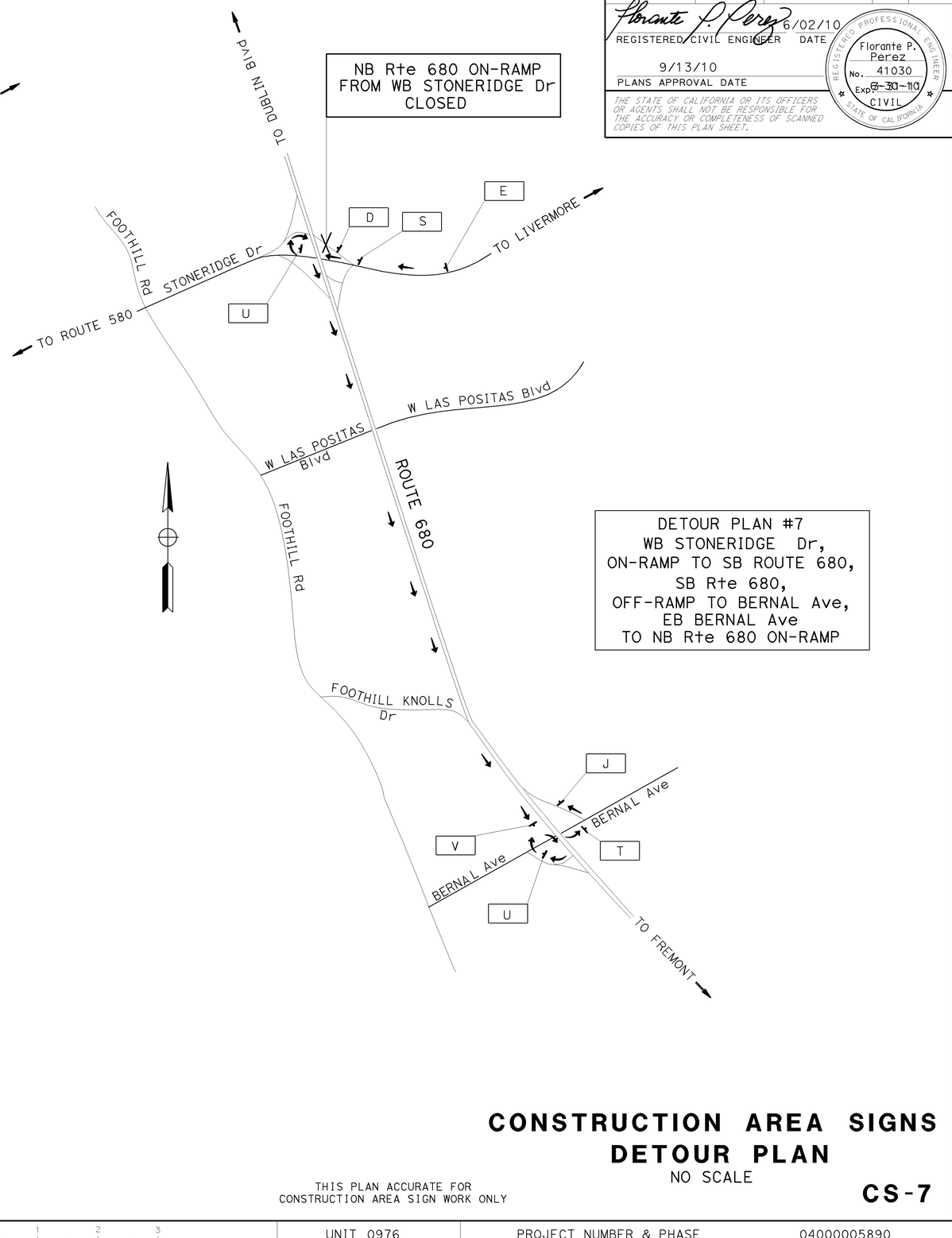
Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

Florante P. Perez No. 41030 Exp. 03-31-11 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.





FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
DETOUR PLAN

NO SCALE

CS-7

CALCULATED-DESIGNED BY	CLAUDIA FANG
CHECKED BY	FLORANTE P. PEREZ
REVISED BY	CF
DATE REVISED	04/25/10
FUNCTIONAL SUPERVISOR	LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

LAST REVISION DATE PLOTTED => 16-SEP-2010
TIME PLOTTED => 08:52
07-10-10

BORDER LAST REVISED 7/2/2010
USERNAME => s135695
DGN FILE => 41e9501a007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0976
PROJECT NUMBER & PHASE 04000005890

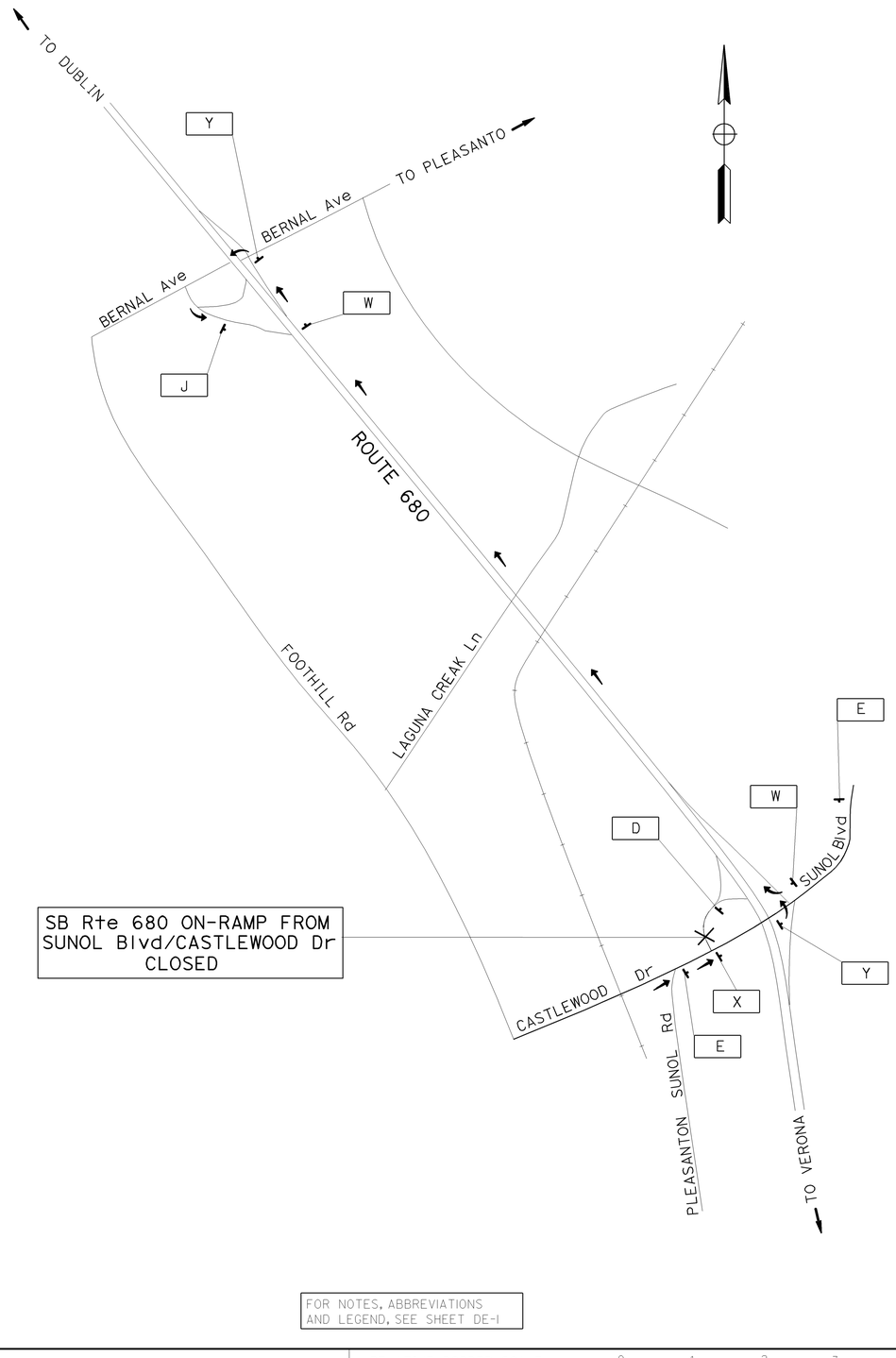
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	10	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Florante P. Perez
No. 41030
Exp. 3-31-11
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.



SB Rte 680 ON-RAMP FROM SUNOL Blvd/CASTLEWOOD Dr CLOSED

DETOUR PLAN #9
VIA WB/EB SUNOL Blvd/CASTLEWOOD Dr,
ON-RAMP TO NB ROUTE 680,
NB ROUTE 680,
OFF-RAMP TO BERNAL Ave,
WB BERNAL Ave,
TO SB ROUTE 680 ON-RAMP

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET DE-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
DETOUR PLAN
NO SCALE

CS-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

FUNCTIONAL SUPERVISOR: LOURDES DAVID
CALCULATED-DESIGNED BY:
CHECKED BY: FLORANTE P. PEREZ
REVISED BY: CF
DATE REVISED: 04/28/10

LAST REVISION DATE PLOTTED => 16-SEP-2010
TIME PLOTTED => 08:52
07-08-10

BORDER LAST REVISED 7/2/2010
USERNAME => s135695
DGN FILE => 41e9501a008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0976
PROJECT NUMBER & PHASE 04000005890

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	11	30

Florante P. Perez 6/02/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Florante P. Perez — No. 41030 — Exp 3-31-11 — 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (inch x inch)	No. OF POSTS & SIZE (EA-inch x inch)	No. OF SIGN	REMARKS
A	W20-1	ROAD WORK AHEAD	48 x 48	1 - 4 x 6	20	
B	W20-1	ROAD WORK AHEAD	30 x 30	1 - 4 x 4	7	
C	G20-2	END ROAD WORK	36 x 18	1 - 4 x 4	30	
D	SC6-4(CA)	RAMP CLOSED	48 x 60	1 - 6 x 6	9	
E	W20-2	DETOUR AHEAD	36 x 36	1 - 4 x 6	20	
F	M4-8	DETOUR	30 x 15	1 - 4 x 4	5	
	G28-2(92)(CA)	ROUTE 92 SHIELD	24 x 25			
	M3-2	EAST	30 x 15			
	M6-3(↑)	STRAIGHT ARROW	21 x 15			
G	M4-8	DETOUR	30 x 15	1 - 4 x 4	3	
	G28-2(92)(CA)	ROUTE 92 SHIELD	24 x 25			
	M3-2	EAST	30 x 15			
	M6-1(←)	LEFT ARROW	21 x 15			
H	M4-8	DETOUR	30 x 15	1 - 4 x 4	1	
	G28-2(92)(CA)	ROUTE 92 SHIELD	24 x 25			
	M3-2	EAST	30 x 15			
	M6-1(→)	RIGHT ARROW	21 x 15			
I	NA	NA	NA	NA	NA	NA
J	M4-8A	END DETOUR	48 x 48	1 - 4 x 4	9	
K	M4-8	DETOUR	30 x 15	1 - 4 x 4	5	
	G28-2(92)(CA)	ROUTE 92 SHIELD	24 x 25			
	M3-4	WEST	30 x 15			
	M6-3(↑)	STRAIGHT ARROW	21 x 15			
L	M4-8	DETOUR	30 x 15	1 - 4 x 4	2	
	G28-2(92)(CA)	ROUTE 92 SHIELD	24 x 25			
	M3-4	WEST	30 x 15			
	M6-1(→)	RIGHT ARROW	21 x 15			
M	M4-8	DETOUR	30 x 15	1 - 4 x 4	3	
	G28-2(92)(CA)	ROUTE 92 SHIELD	24 x 25			
	M3-4	WEST	30 x 15			
	M6-1(←)	LEFT ARROW	21 x 15			
N	M4-8	DETOUR	30 x 15	1 - 4 x 4	3	
	G27-2(580)(CA)	ROUTE 580 SHIELD	28 x 25			
	M3-2	EAST	30 x 15			
	M6-3(↑)	STRAIGHT ARROW	21 x 15			
O	M4-8	DETOUR	30 x 15	1 - 4 x 4	2	
	G27-2(580)(CA)	ROUTE 580 SHIELD	28 x 25			
	M3-2	EAST	30 x 15			
	M6-1(←)	LEFT ARROW	21 x 15			
P	M4-8	DETOUR	30 x 15	1 - 4 x 4	6	
	G27-2(580)(CA)	ROUTE 580 SHIELD	28 x 25			
	M3-4	WEST	30 x 15			
	M6-3(↑)	STRAIGHT ARROW	21 x 15			
Q	M4-8	DETOUR	30 x 15	1 - 4 x 4	3	
	G27-2(580)(CA)	ROUTE 580 SHIELD	28 x 25			
	M3-4	WEST	30 x 15			
	M6-1(→)	RIGHT ARROW	21 x 15			
R	M4-8	DETOUR	30 x 15	1 - 4 x 4	1	
	G27-2(580)(CA)	ROUTE 580 SHIELD	28 x 25			
	M3-4	WEST	30 x 15			
	M6-1(←)	LEFT ARROW	21 x 15			

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	CODE	MESSAGE	PANEL SIZE (inch x inch)	No. OF POSTS & SIZE (EA-inch x inch)	No. OF SIGN	REMARKS
S	M4-8	DETOUR	30 x 15	1 - 4 x 4	2	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-1	NORTH	30 x 15			
	M6-3(↑)	STRAIGHT ARROW	21 x 15			
T	M4-8	DETOUR	30 x 15	1 - 4 x 4	2	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-1	NORTH	30 x 15			
	M6-1(←)	LEFT ARROW	21 x 15			
U	M4-8	DETOUR	30 x 15	1 - 4 x 4	4	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-1	NORTH	30 x 15			
	M6-1(→)	RIGHT ARROW	21 x 15			
V	M4-8	DETOUR	30 x 15	1 - 4 x 4	4	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-1	NORTH	30 x 15			
	M6-2(↗)	UP RIGHT ARROW	21 x 15			
W	M4-8	DETOUR	30 x 15	1 - 4 x 4	3	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-3	SOUTH	30 x 15			
	M6-2(↗)	UP RIGHT ARROW	21 x 15			
X	M4-8	DETOUR	30 x 15	1 - 4 x 4	2	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-3	SOUTH	30 x 15			
	M6-3(↑)	STRAIGHT ARROW	21 x 15			
Y	M4-8	DETOUR	30 x 15	1 - 4 x 4	3	
	G27-2(680)(CA)	ROUTE 680 SHIELD	42 x 36			
	M3-3	SOUTH	30 x 15			
	M6-1(←)	LEFT ARROW	21 x 15			

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-9

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
CLAUDIA FANG	FLORANTE P. PEREZ	CF	04/28/10

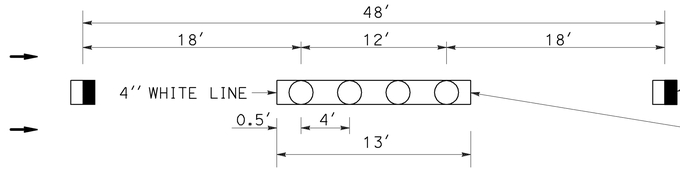
FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — TRAFFIC — Caltrans

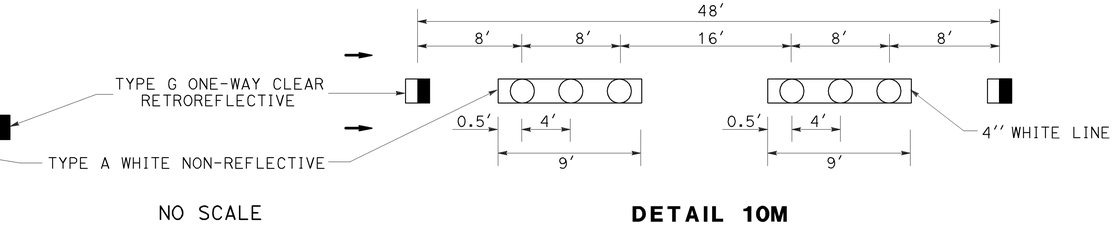
LAST REVISION | DATE PLOTTED => 16-SEP-2010 | TIME PLOTTED => 08:53 | 07-08-10

BORDER LAST REVISED 7/2/2010 | USERNAME => s135695 | DGN FILE => 41e9501a009.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0976 | PROJECT NUMBER & PHASE 04000005890

NOTE: INSTALL 4'' WHITE AFTER INSTALLING PAVEMENT MARKERS.



DETAIL 13M



NO SCALE

DETAIL 10M

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	Var	Var	12	30

Yongchon Ho 6/2/10
REGISTERED CIVIL ENGINEER DATE

9/13/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Choon F. Yong — No. 51254 — Exp. 9-30-11 — 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.

TRAFFIC STRIPES, PAVEMENT MARKING AND PAVEMENT MARKERS

LOCATION	BRIDGE No.	DETAIL No. MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE			REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						PAVEMENT MARKER					THERMO-PLASTIC PAVEMENT MARKING
			4'' WHITE	8'' WHITE	4'' YELLOW			4'' WHITE (BROKEN 17-7)	4'' WHITE (BROKEN 35-13)	4'' WHITE (BROKEN 35-18)	8'' WHITE	4'' WHITE	4'' YELLOW	NON-REFLECTIVE	RETROREFLECTIVE				
														TYPE A	TYPE C	TYPE D	TYPE G	TYPE H	
			LF			EA	SQFT	LF						EA					SQFT
①	33-0092	13M	301			116			1110					93			23		
		25			434	9							434					9	
		38B		404		17					202						17		
		27B	444									444							
		8	65					222											
②	33-0370	13M	259			99			955					80			20		
		25			382	8							382					8	
		27B	764									764							
		36	191			8						191					8		
		36B	191			4						191					4		
③	33-0445	38A		400							200								
		10M				84				675				84					
		8'' WHITE		400							200								
		TYPE III (L) ARROW					42												42
⑤	33-0196L	27B	167									167							
		25			167	3							167					3	
		13M	136			52			501					42			10		
⑥	33-0121R	13M	390			150			1440					120			30		
		25			480	10							480					10	
		27B	480									480							
⑦	33-0140	13M	118			45			434					36			9		
		25			434	9							434					9	
		27B	434									434							
		TYPE VI ARROW					84												84
⑧	33-0192L	13M	108			42			399					33			8		
		25			133	3							133					3	
		27B	133									133							
⑩	33-0332	13M	294			113			1085					90			23		
		25			155	3							155					3	
		27B	155									155							
⑪	33-0299K	25			161	3							161					3	
		27B	161									161							
⑬	33-0110	13M	177			68			652					54			14		
		27B	652									652							
		37		383		43									43				
⑯	33-0351	9	29			2		100									2		
		13M	108			42			400					33			8		
		25			100	2							100					2	
		27B	100									100							
⑲	33-0192L	13M	108			42			400					33			8		
㉓	33-0643G	13M	498			191			1837					153			38		
		25A			1837	77							1837					77	
		27B	1837									1837							
SUBTOTAL			8298	1587	4283	1246	126	322	9213	675	1254	5709	4283	852	43	0	223	128	126
TOTAL			9885		4283	1246	126	322	9213	675	1254	9992		852			394		126

NOTE: ALL PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED IN KIND AT THE SAME LOCATIONS AS EXISTING.

PAVEMENT DELINEATION QUANTITIES

PDQ-1

PATRICK HO — CHOON F. YONG — RAMSES SARGISS — DESIGN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CALCULATED-DESIGNED BY: PH — CHECKED BY: CHOON F. YONG — REVISED BY — DATE REVISED: 11/02/09

LAST REVISION: DATE PLOTTED => 16-SEP-2010 — TIME PLOTTED => 08:53 — 08-25-10

BORDER LAST REVISED 7/2/2010 | USERNAME => s135695 | DGN FILE => 41e950nc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0976 | PROJECT NUMBER & PHASE 04000005890

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	Var	Var	13	30

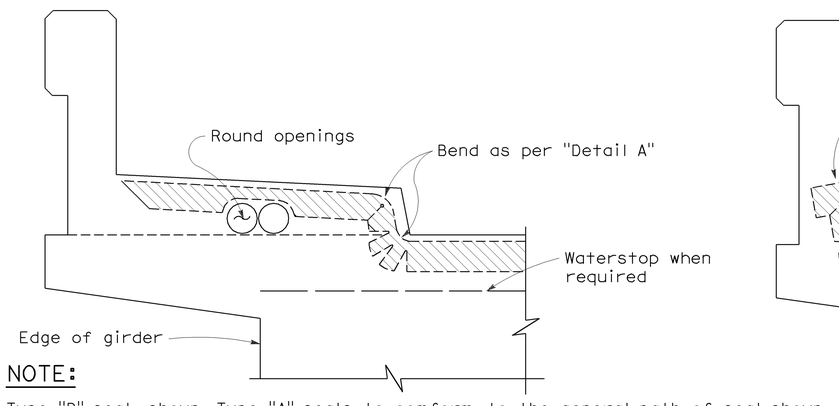
REGISTERED CIVIL ENGINEER

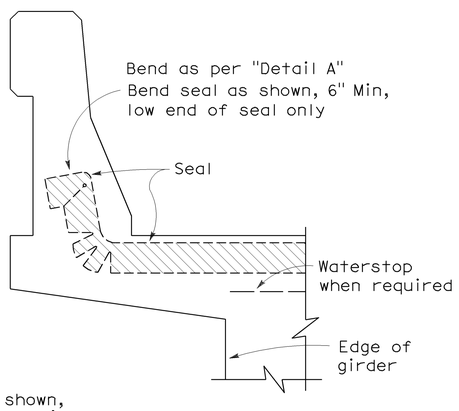
Efthymios Delis
No. C51434
Exp. 6-30-08
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

October 5, 2007
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 9-13-10



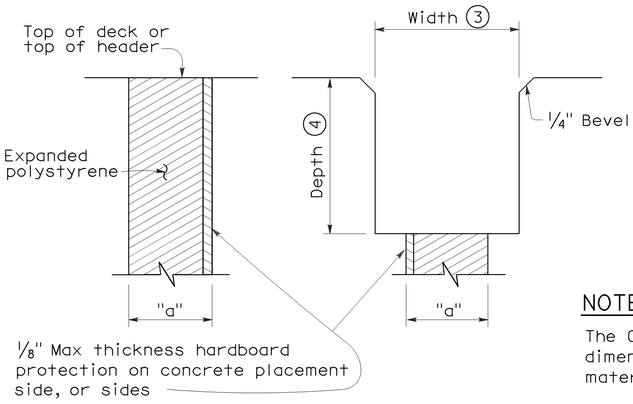


NOTE:

Type "B" seal shown. Type "A" seals to comform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

CONCRETE BARRIER



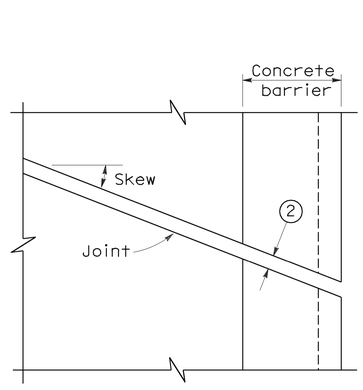
FORMING DETAIL

SAWCUT DETAIL

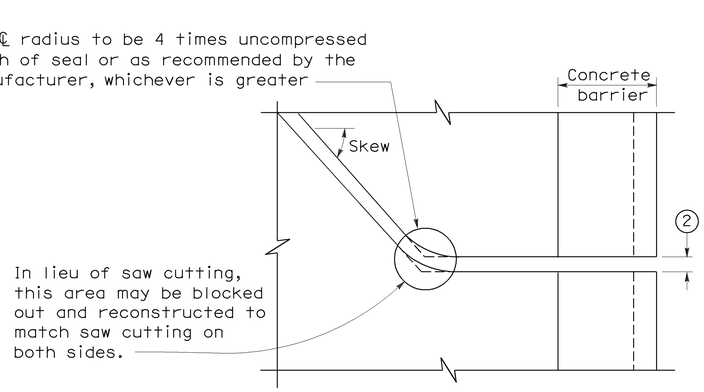
NOTE:

The Contractor shall verify all controlling field dimensions before ordering or fabricatiing any material.

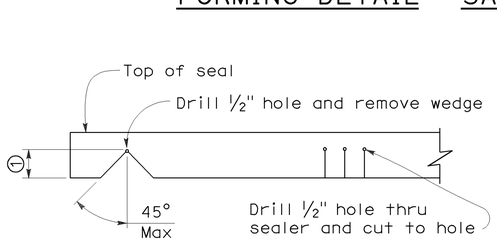
JOINT SEALS DETAILS



PLAN OF JOINT (SKEW ≤ 20°)



PLAN OF JOINT (SKEW > 20°)



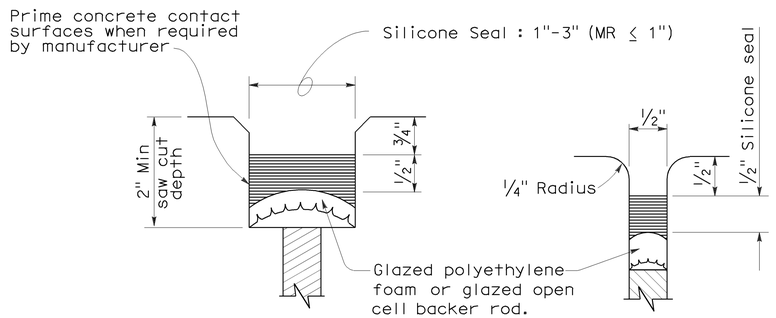
DETAIL A

NOTES:

1. Make smooth cuts from the bottom of seal to 1½" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
2. Opening in barrier to match width of sawn deck joint.
3. Sawcut groove widths shall be as ordered by the Engineer.
4. Depth of sawcut: Type A - Depth to be 2" minimum.
   Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W_2) plus dimensions shown.
5. MR (movement rating) as shown on other plan sheets.
6. Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) (5)	Bridge Type	"a" Dimension Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1½"	1¼"	¾"
	CIP/PS	1¼"	1"	½"
1½"	All except CIP/PS	1¼"	1"	½"
	CIP/PS	1"	¾"	½"
1"	All except CIP/PS	1"	¾"	½"
	CIP/PS	¾"	½"	½"
½"	All except CIP/PS	¾"	¾"	½"
	CIP/PS	½"	½"	½"

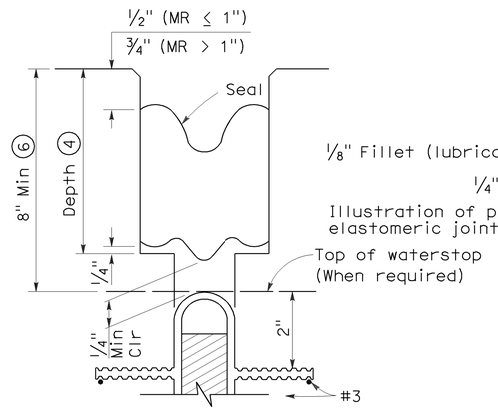


TYPE A SEAL

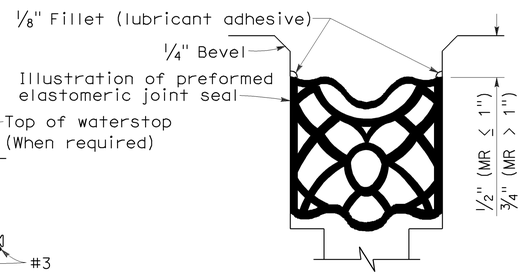
Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL
IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

NO SCALE

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

5-8-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	Var	Var	14	30

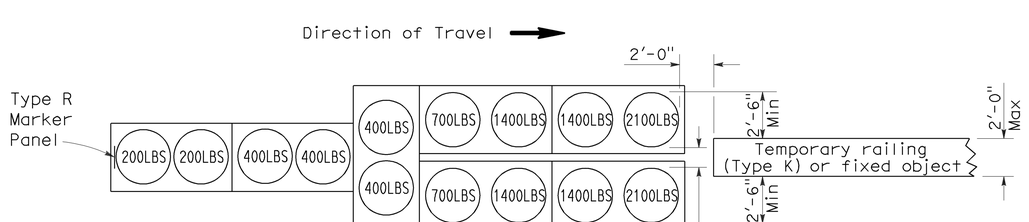
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

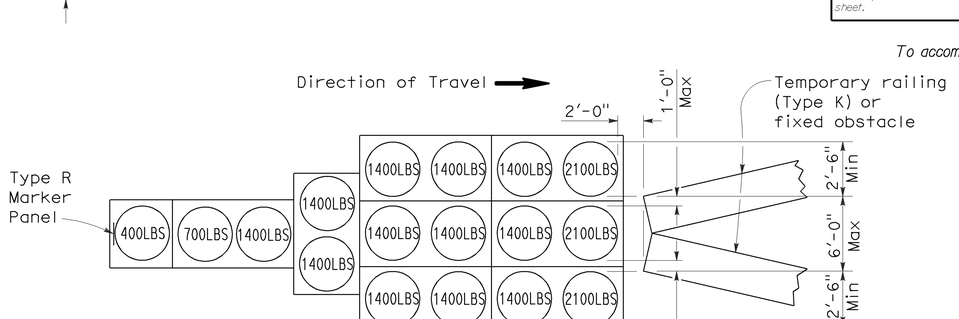
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 9-13-10



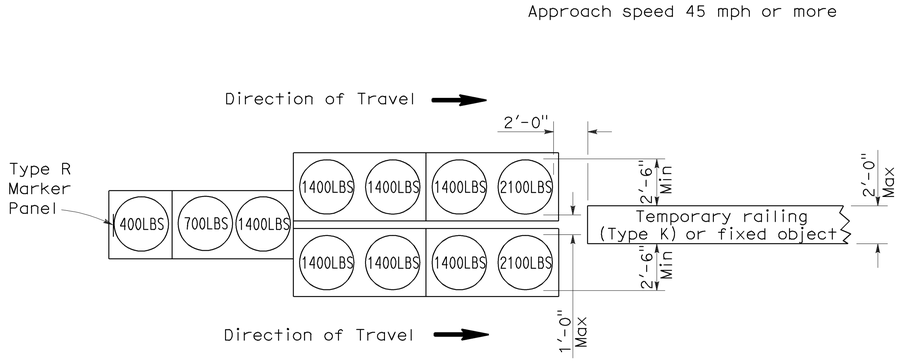
ARRAY 'TU14'

Approach speed 45 mph or more



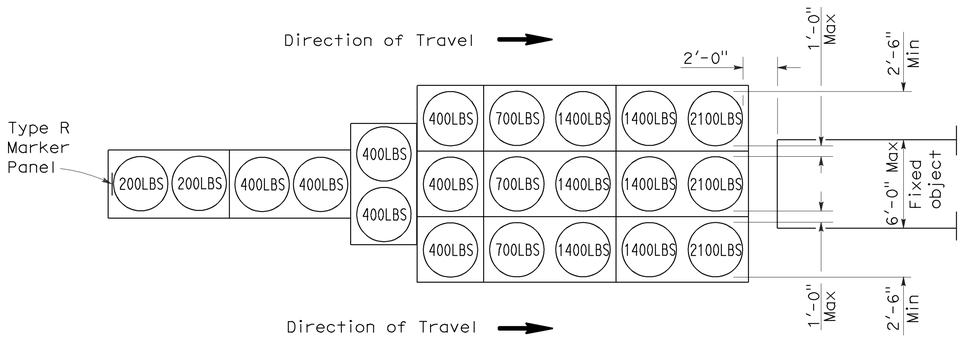
ARRAY 'TU17'

Approach speed less than 45 mph



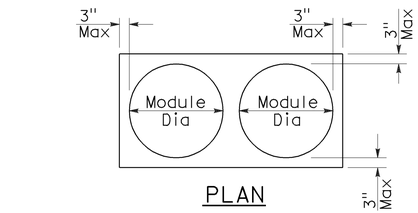
ARRAY 'TU11'

Approach speed less than 45 mph

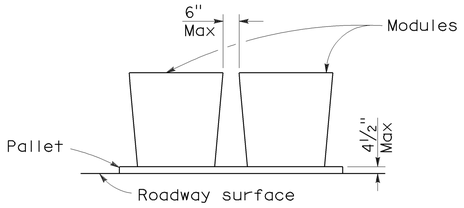


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	Var	Var	15	30

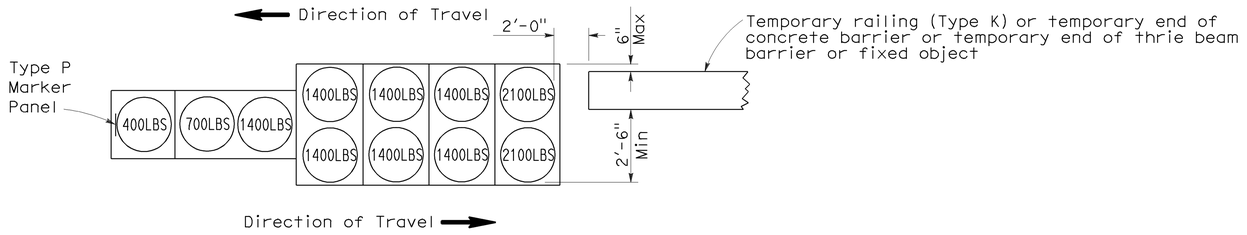
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

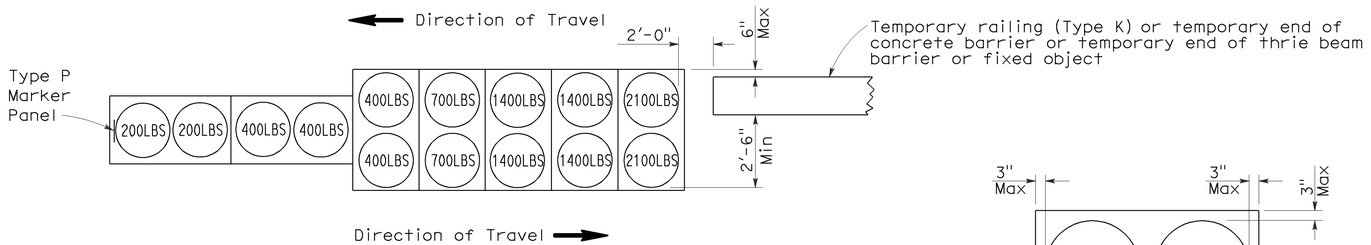
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 9-13-10



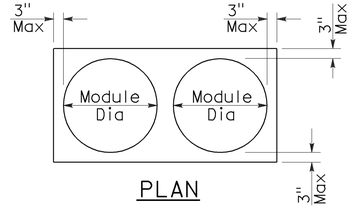
ARRAY 'TB11'

Approach speed less than 45 mph

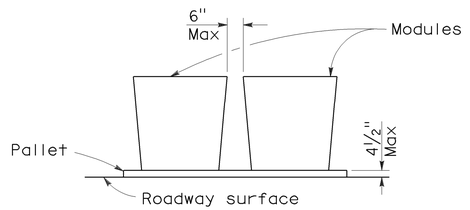


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	Var	Var	16	30

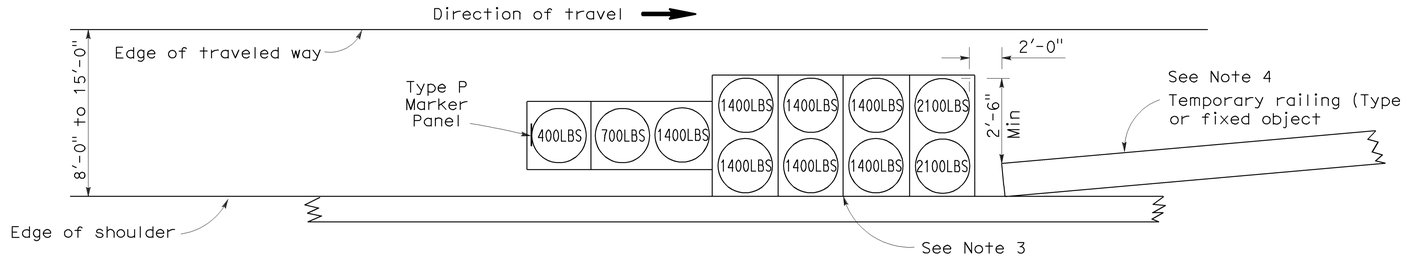
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

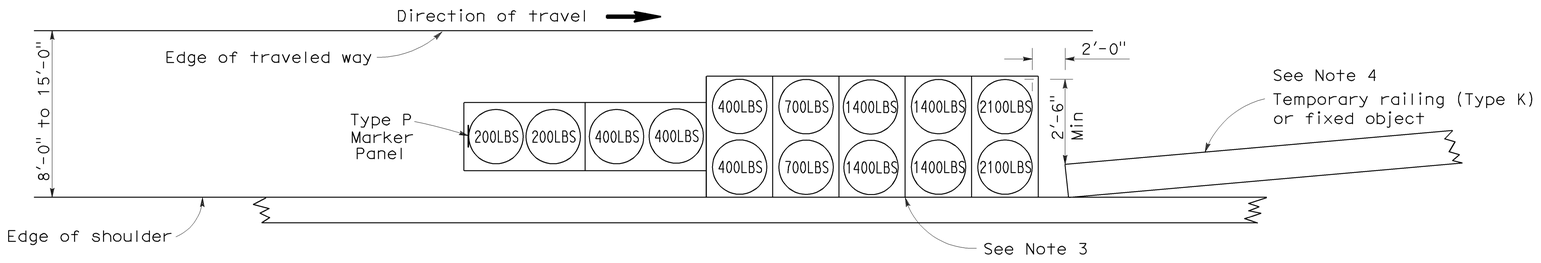
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 9-13-10



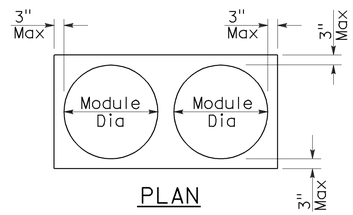
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

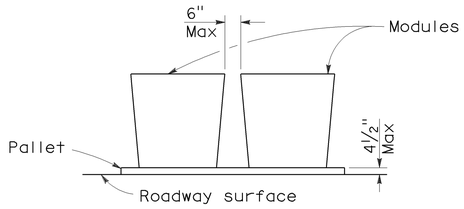


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	17	30

07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER T. LEE — No. C38395 — Exp. 3-31-11 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN 1
2	GENERAL PLAN 2
3	GENERAL PLAN 3
4	GENERAL PLAN 4
5	GENERAL PLAN 5
6	GENERAL PLAN 6
7	GENERAL PLAN 7
8	GENERAL PLAN 8
9	GENERAL PLAN 9
10	GENERAL PLAN 10
11	GENERAL PLAN 11
12	GENERAL PLAN 12
13	JOINT SEAL DETAILS
14	MISCELLANEOUS DETAILS

STANDARD PLANS DATED MAY 2006

SHEET No.	TITLE
A10A TO A10B	ACRONYMS AND ABBREVIATIONS
RSP B6-21	JOINT SEALS (MAXIMUM MR=2")

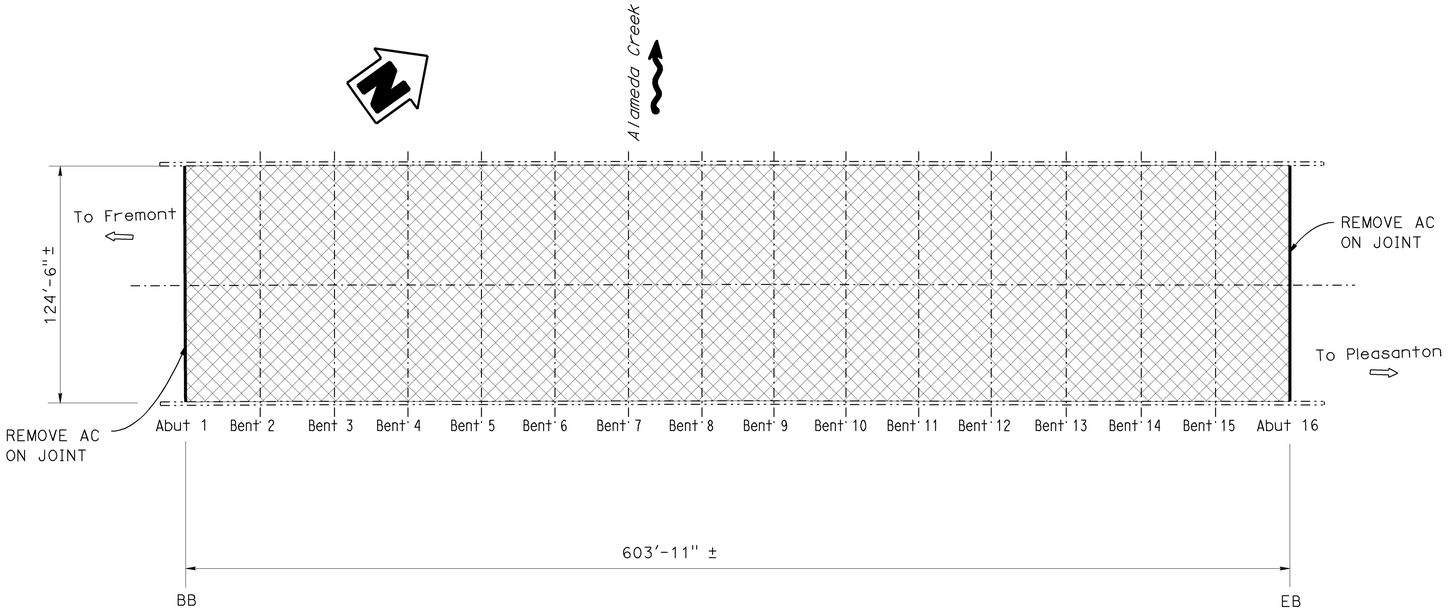
LEGEND:

-·-·-·- INDICATES EXISTING STRUCTURE

INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.

(–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

INDICATES LIMITS TO REPAIR ASPHALT CONCRETE BRIDGE DECK SURFACE. PATCH BRIDGE DECK WITH ASPHALT CONCRETE AS SHOWN ON THE "DECK DAMAGE REPAIR DETAIL".



(15) ALAMEDA CREEK BRIDGE

BR. No. 33-0047, Rte 680, PM R10.15

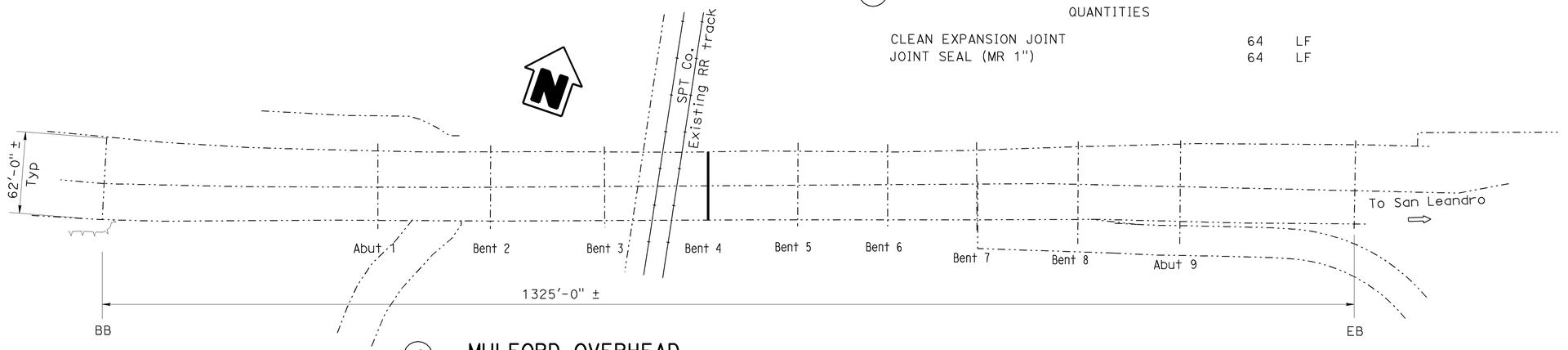
NO SCALE

(15) ALAMEDA CREEK BRIDGE — BR NO. 33-0047

QUANTITIES		
CLEAN EXPANSION JOINT	254	LF
HOT MIX ASPHALT (TYPE B) (PATCH)	256	CF
JOINT SEAL (ASPHALTIC PLUG)	254	LF

(4) MULFORD OVERHEAD — BR NO. 33-0082

QUANTITIES		
CLEAN EXPANSION JOINT	64	LF
JOINT SEAL (MR 1")	64	LF



(4) MULFORD OVERHEAD

BR. No. 33-0082, Rte 112, PM R0.06

NO SCALE

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee		
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED		

Kenneth R Brown
DESIGN ENGINEER 07-12-10

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0047 & 33-0082

GENERAL PLAN 1

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-21-10 | 06-07-10 | 07-08-10 | 07-16-10 | 09-14-10

SHEET 1 OF 14

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp001.dgn

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 08:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	18	30

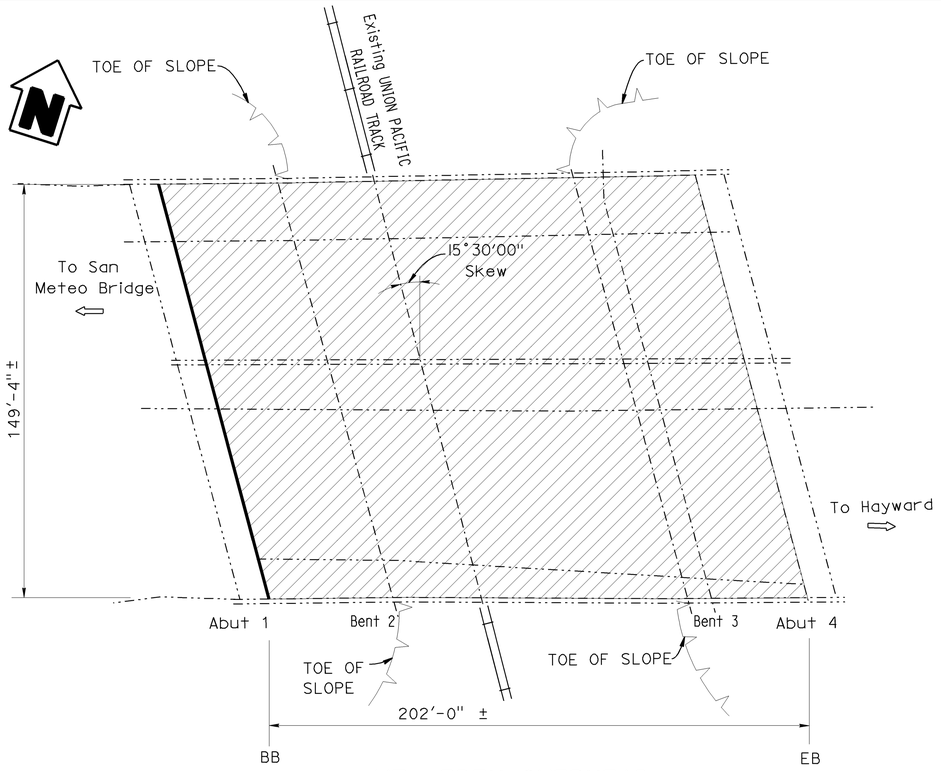
REGISTERED CIVIL ENGINEER — DATE 07-12-10

PLANS APPROVAL DATE 9-13-10

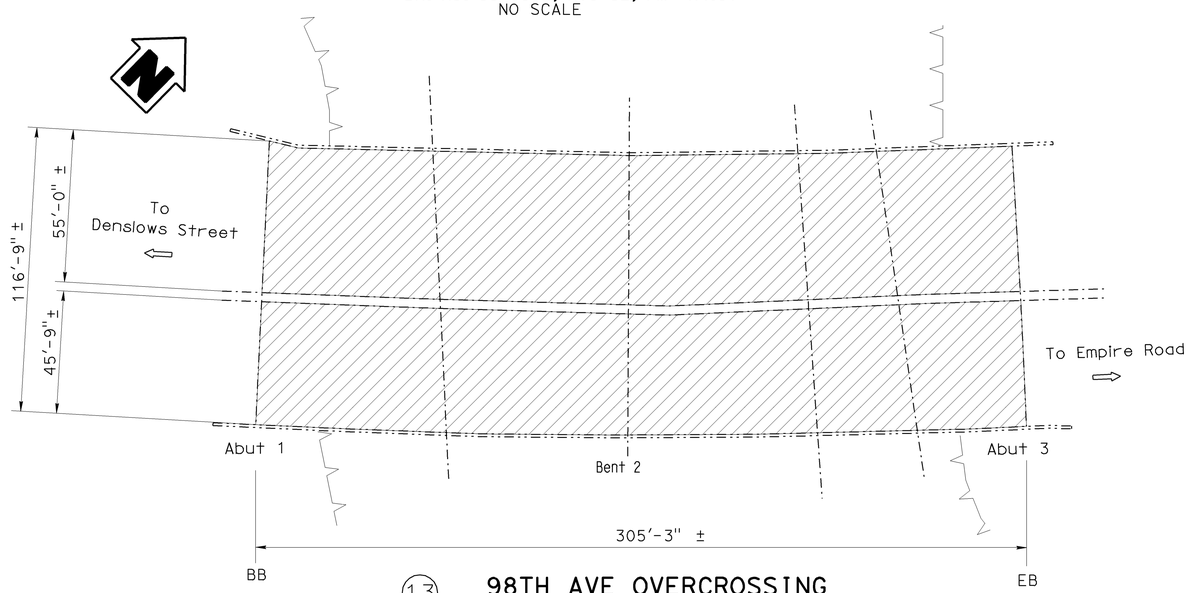
CHRISTOPHER T. LEE No. C38395 Exp. 3-31-11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



1 **MT. EDEN OVERHEAD**
BR. No. 33-0092, Rte 92, PM R4.91
NO SCALE



13 **98TH AVE OVERCROSSING**
BR. No. 33-0110, Rte 880, PM 24.74
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE, CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.

1 MT. EDEN OVERHEAD — BR NO. 33-0092

QUANTITIES

REMOVE UNSOUND CONCRETE	103	CF
CLEAN BRIDGE DECK	30,149	SQFT
CLEAN EXPANSION JOINT	157	LF
RAPID SETTING CONCRETE (PATCH)	103	CF
JOINT SEAL (MR1/2")	157	LF
TREAT BRIDGE DECK	30,149	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	335	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

13 98TH AVE OC — BR NO. 33-0110

QUANTITIES

REMOVE UNSOUND CONCRETE	105	CF
CLEAN BRIDGE DECK	30,754	SQFT
RAPID SETTING CONCRETE (PATCH)	105	CF
TREAT BRIDGE DECK	30,754	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	342	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

Kenneth R Brown
DESIGN ENGINEER 07-12-10

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	C. Lee	A.Kushkaki			
DETAILS	M. Yu	C. Lee	LAYOUT	M. Yu	C. Lee
QUANTITIES	C.Lee	A.Kushkaki	SPECIFICATIONS	J. Ramirez	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-26-10 | 06-07-10 | 07-08-10 | 07-30-10

SHEET 2 OF 14

REPLACE JOINT SEALS AND TREAT BRIDGE DECK
Br. Nos. 33-0092 & 33-0110
GENERAL PLAN 2

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

USERNAME = s130617 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp002.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	19	30

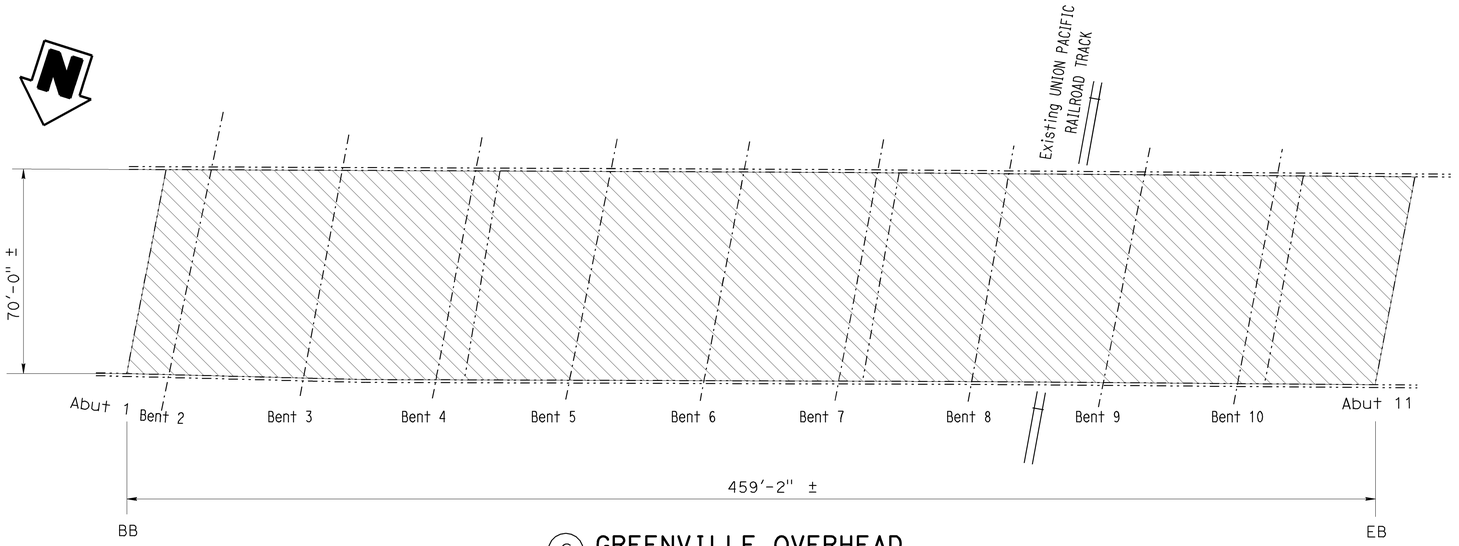
07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. LEE
No. C38395
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



Route 580
To Livermore

(6) GREENVILLE OVERHEAD
BR. No. 33-0121R, Rte 580, PM R8
NO SCALE

(6) GREENVILLE OVERHEAD — BR NO 33-0121R

QUANTITIES

REMOVE UNSOUND CONCRETE	105	CF
RAPID SETTING CONCRETE (PATCH)	105	CF

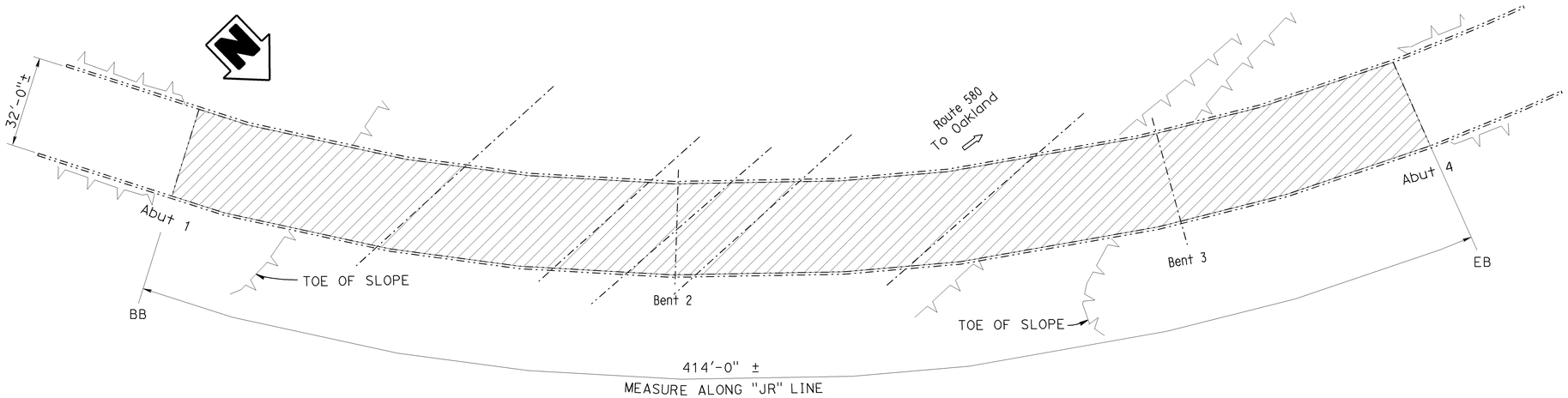
(7) PORTOLA AVE OC — BR NO 33-0140

QUANTITIES

REMOVE UNSOUND CONCRETE	46	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	13,248	SQFT
RAPID SETTING CONCRETE (PATCH)	46	CF
TREAT BRIDGE DECK	13,248	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	147	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS TO REPAIR CONCRETE BRIDGE DECK SURFACE. REMOVE UNSOUND CONCRETE INCLUDING AC PATCHES AND PATCH WITH POLYESTER CONCRETE AS SHOWN ON THE "DECK DAMAGE REPAIR DETAIL".
- INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE, CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.



(7) PORTOLA AVENUE OVERCROSSING
BR. No. 33-0140, Rte 580, PM 13.22
NO SCALE

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee		
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED		

Kenneth R Brown
DESIGN ENGINEER 07-12-10

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK
Br. Nos. 33-0121R & 33-0140
GENERAL PLAN 3

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 04-21-10 | 06-07-10 | 07-08-10 | 07-14-10 | 07-30-10

SHEET 3 OF 14

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp003.dgn

USERNAME = s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	20	30

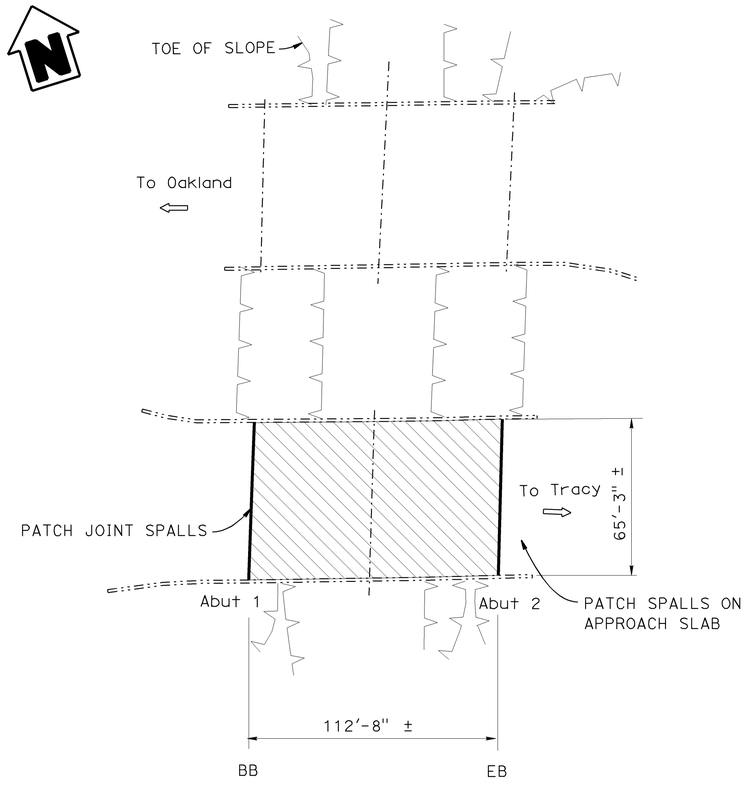
07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. LEE
No. C38395
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



(8) SCHAEFER RANCH ROAD UNDERCROSSING

BR. No. 33-0192L, Rte 580, PM R23.86
NO SCALE

(8) SCHAEFER RANCH ROAD UC — BR NO. 33-0192L

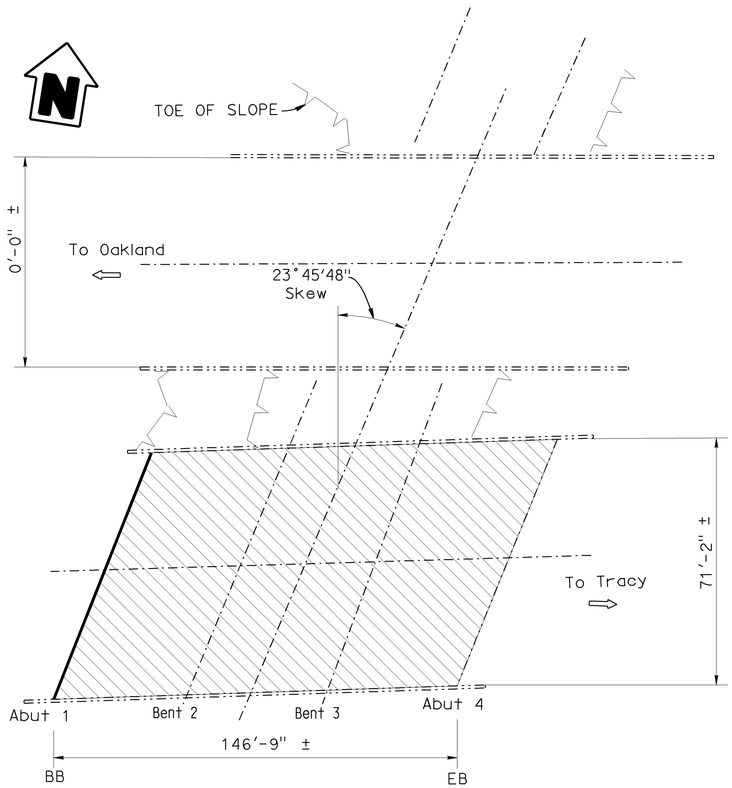
QUANTITIES

REMOVE UNSOUND CONCRETE	25	CF
CLEAN EXPANSION JOINT	136	LF
RAPID SETTING CONCRETE (PATCH)	25	CF
JOINT SEAL (MR½")	136	LF

(5) GRANT LINE ROAD UC — BR NO. 33-0196L

QUANTITIES

REMOVE UNSOUND CONCRETE	36	CF
CLEAN EXPANSION JOINT	80	LF
RAPID SETTING CONCRETE (PATCH)	36	CF
JOINT SEAL (MR½")	80	LF



(5) GRANT LINE ROAD UNDERCROSSING

BR. No. 33-0196L, Rte 580, PM R1.48
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS TO REPAIR CONCRETE BRIDGE DECK SURFACE. REMOVE UNSOUND CONCRETE INCLUDING AC PATCHES AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK DAMAGE REPAIR DETAIL".
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

Kenneth R Brown
DESIGN ENGINEER 07-12-10

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee		
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED		

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-21-10 | 06-07-10 | 07-08-10

SHEET 4 OF 14

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0192L & 33-0196L

GENERAL PLAN 4

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp004.dgn

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	21	30

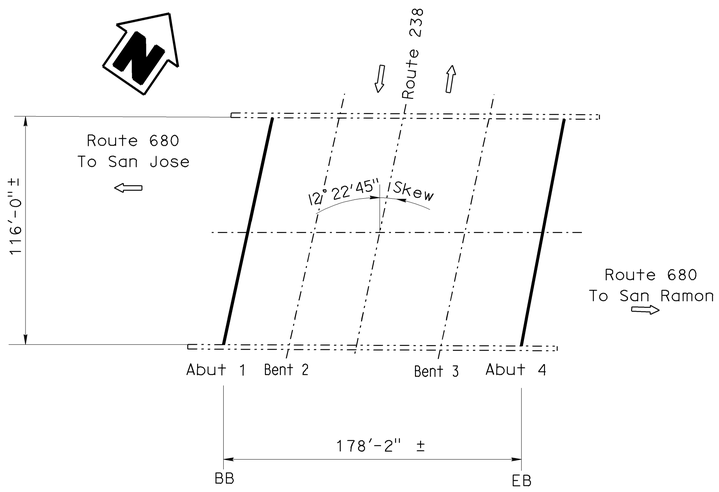
07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

CHRISTOPHER T. LEE No. C38395 Exp. 3-31-11 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 electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



(14) MISSION SAN JOSE SEPARATION
BR. No. 33-0294, Rte 680, PM R6.38
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS OF REMOVE APPROXIMATELY 3" THICK EXISTING AC OVERLAY AND REPLACE WITH NEW HOT MIX ASPHALT (TYPE B)
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

(14) MISSION SAN JOSE SEPARATION — BR NO. 33-0294

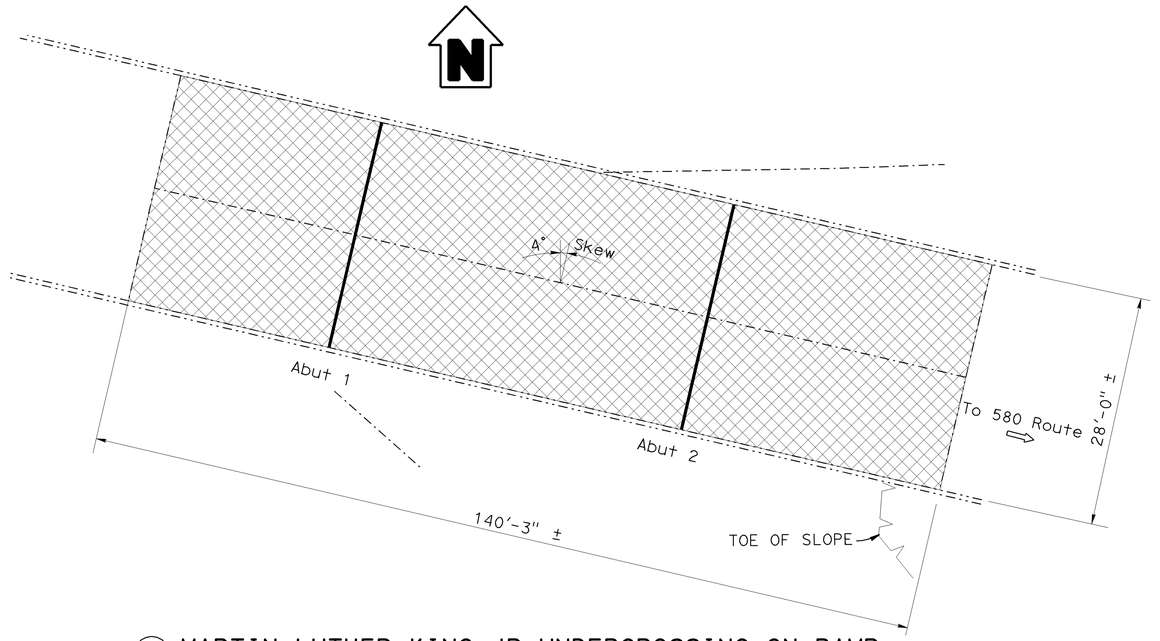
QUANTITIES

CLEAN EXPANSION JOINT	242	LF
JOINT SEAL (MR1/2")	242	LF

(11) MARTIN LUTHER KING JR UC ON-RAMP — BR NO. 33-0299K

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	4,780	SQFT
HOT MIX ASPHALT (TYPE B)	87	TON
JOINT SEAL (ASPHALTIC PLUG)	72	LF



(11) MARTIN LUTHER KING JR UNDERCROSSING ON-RAMP
BR. No. 33-0299K, Rte 580, PM 45.25
NO SCALE

DESIGN ENGINEER 07-12-10	DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
	DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee	
	QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED	

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK
Br. Nos. 33-0294 & 33-0299K
GENERAL PLAN 5

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES										SHEET	OF
04-21-10	06-01-10	07-08-10	07-14-10	08-02-10	09-14-10					5	14

USERNAME => s1308177 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00
FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp005.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	22	30

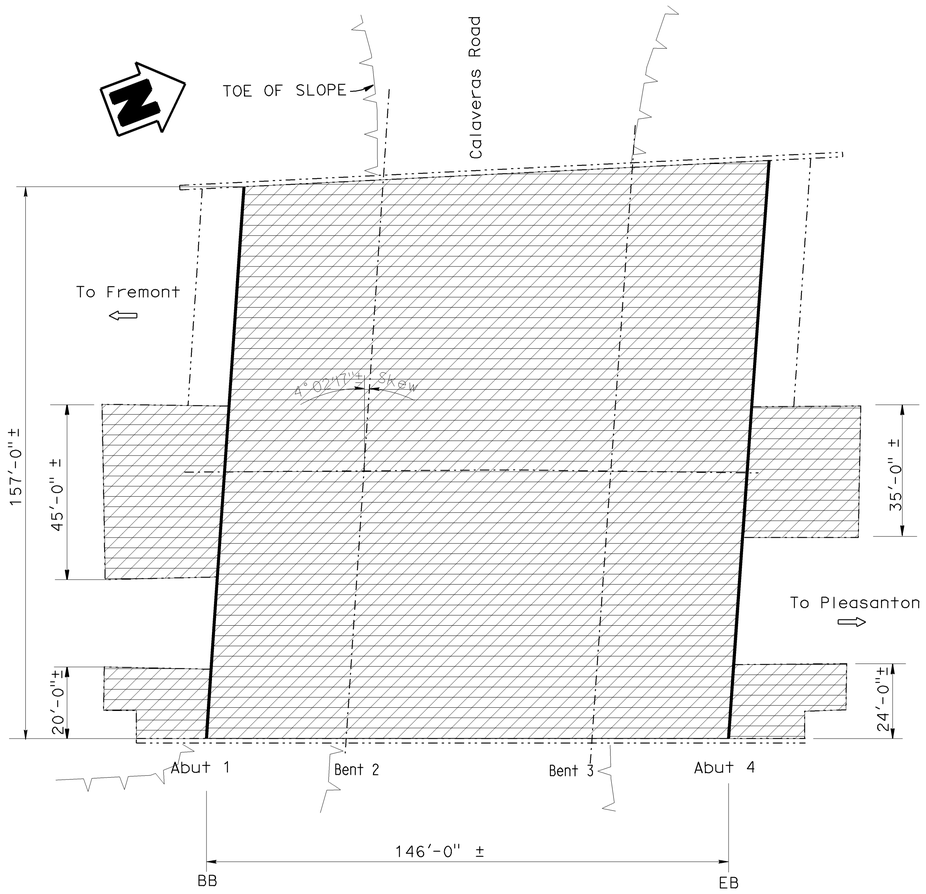
07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. LEE
No. C38395
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



(16) CALAVERAS ROAD SEPARATION
BR. No. 33-0351, Rte 680, PM R11.03
NO SCALE

(16) CALAVERAS ROAD SEPARATION — BR NO. 33-0351

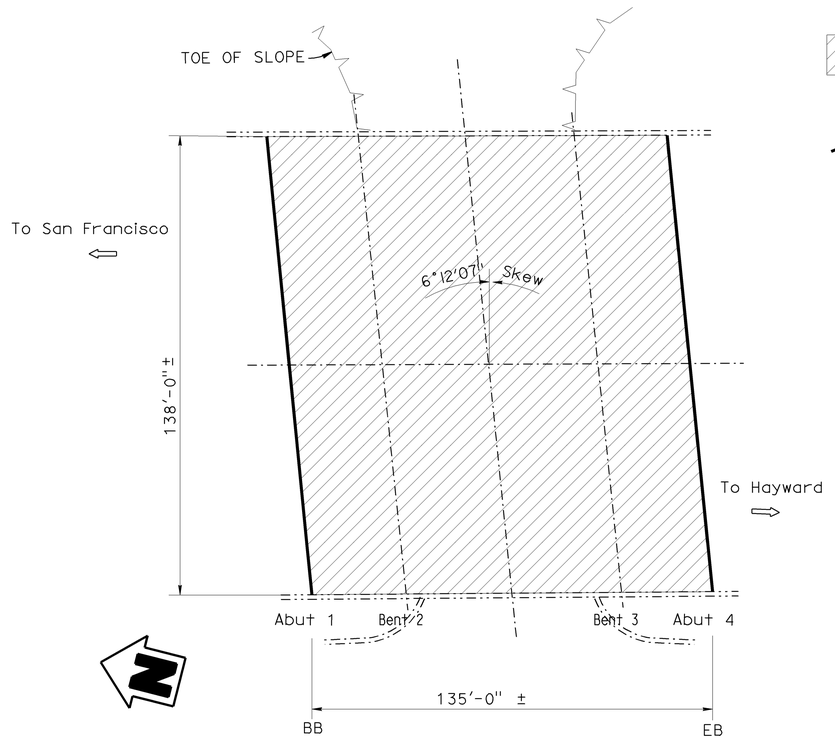
QUANTITIES

REMOVE UNSOUND CONCRETE	11	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	25,907	SQFT
CLEAN EXPANSION JOINT	320	LF
RAPID SETTING CONCRETE (PATCH)	11	CF
FURNISH POLYESTER CONCRETE OVERLAY	4,404	CF
PLACE POLYESTER CONCRETE OVERLAY	25,907	SQFT
JOINT SEAL (MR1/2")	320	LF
PUBLIC SAFETY PLAN	LUMP	SUM

(10) ESTUDILLO AVE UC — BR NO. 33-0332

QUANTITIES

REMOVE UNSOUND CONCRETE	64	CF
CLEAN EXPANSION JOINT	282	LF
RAPID SETTING CONCRETE (PATCH)	64	CF
JOINT SEAL (ASPHALTIC PLUG)	282	LF



(10) ESTUDILLO AVENUE UNDERCROSSING
BR. No. 33-0332, Rte 580, PM R34.48
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS PREPARE CONCRETE SLAB SURFACE, FURNISH AND PLACE NEW 3/4" MINIMUM DEPTH POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING NEW POLYESTER CONCRETE OVERLAY REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK DAMAGE REPAIR DETAIL".
- INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK DAMAGE REPAIR DETAIL".
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

Kenneth R Brown
DESIGN ENGINEER 07-12-10

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee	
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK
Br. Nos. 33-0332 & 33-0351
GENERAL PLAN 6

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES										SHEET	OF
04-21-10	06-07-10	07-08-10	07-30-10							6	14

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp006.dgn

USERNAME = s130617 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	23	30

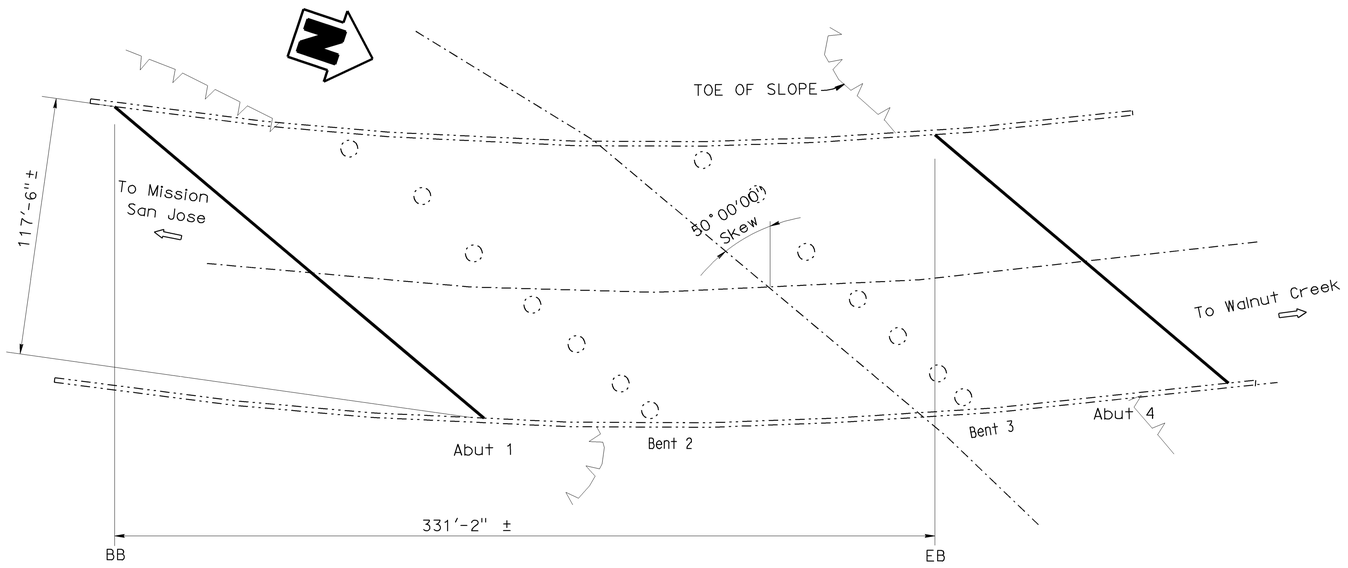
REGISTERED CIVIL ENGINEER — DATE 07-12-10

PLANS APPROVAL DATE 9-13-10

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER T. LEE — No. C38395 — Exp. 3-31-11 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



(17) SCOTTS CORNER SEPARATION

BR. No. 33-0352, Rte 680, PM R11.81
NO SCALE

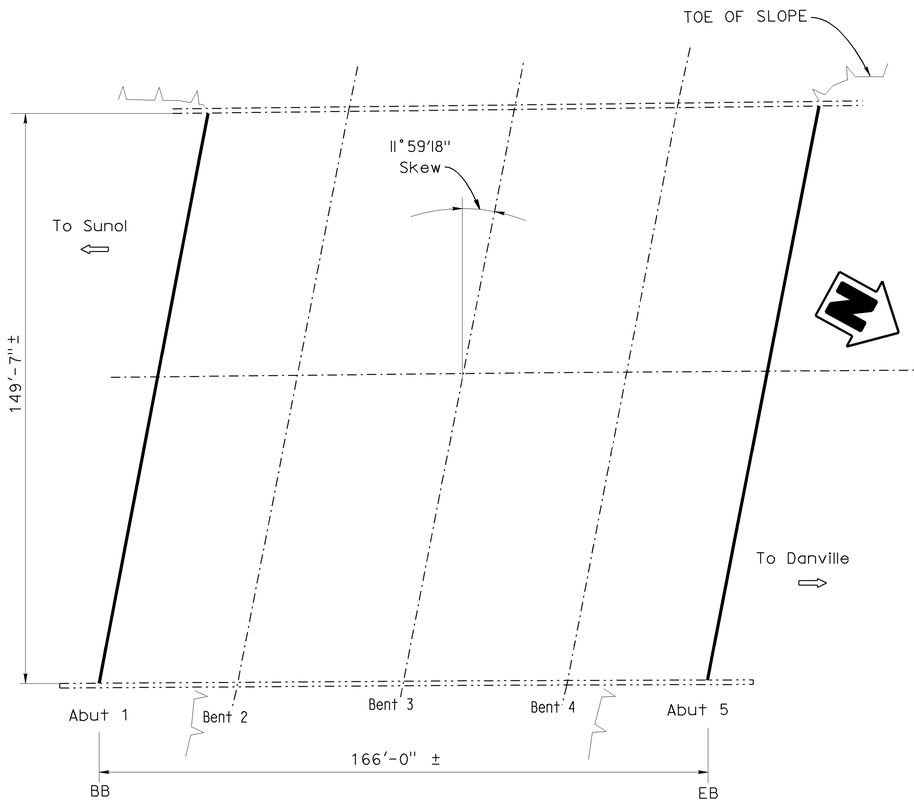
LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

(17) SCOTTS CORNER SEPARATION — BR NO. 33-0352

QUANTITIES

CLEAN EXPANSION JOINT	370	LF
JOINT SEAL (MR 1")	370	LF



(12) AMADOR VALLEY BLVD UNDERCROSSING

BR. No. 33-0356, Rte 680, PM R20.73
NO SCALE

(12) AMADOR VALLEY BLVD UC — BR NO. 33-0356

QUANTITIES

CLEAN EXPANSION JOINT	310	LF
JOINT SEAL (MR 1")	310	LF

DESIGN ENGINEER 07-12-10	DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
	DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee	
	QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK
Br. Nos. 33-0352 & 33-0356
GENERAL PLAN 7

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES									SHEET	OF
04-21-10	06-07-10	07-08-10	09-14-10						7	14

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp007.dgn

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	24	30

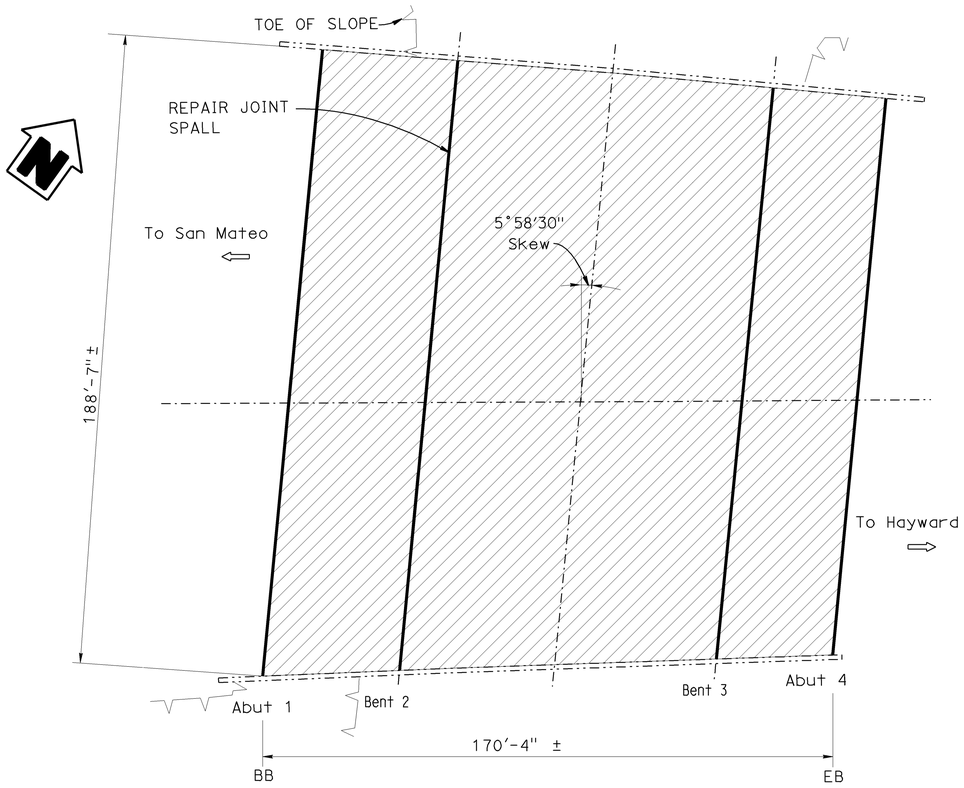
REGISTERED CIVIL ENGINEER — DATE 07-12-10

PLANS APPROVAL DATE 9-13-10

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER T. LEE — No. C38395 — Exp. 3-31-11 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



(2) INDUSTRIAL BOULEVARD UNDERCROSSING

BR. No. 33-0370, Rte 92, PM R5.12

NO SCALE

(2) INDUSTRIAL BLVD UC — BR NO. 33-0370

QUANTITIES

REMOVE UNSOUND CONCRETE	110	CF
CLEAN BRIDGE DECK	32,130	SQFT
CLEAN EXPANSION JOINT	768	LF
RAPID SETTING CONCRETE (PATCH)	110	CF
JOINT SEAL (MR1/2")	768	LF
TREAT BRIDGE DECK	32,130	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	357	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

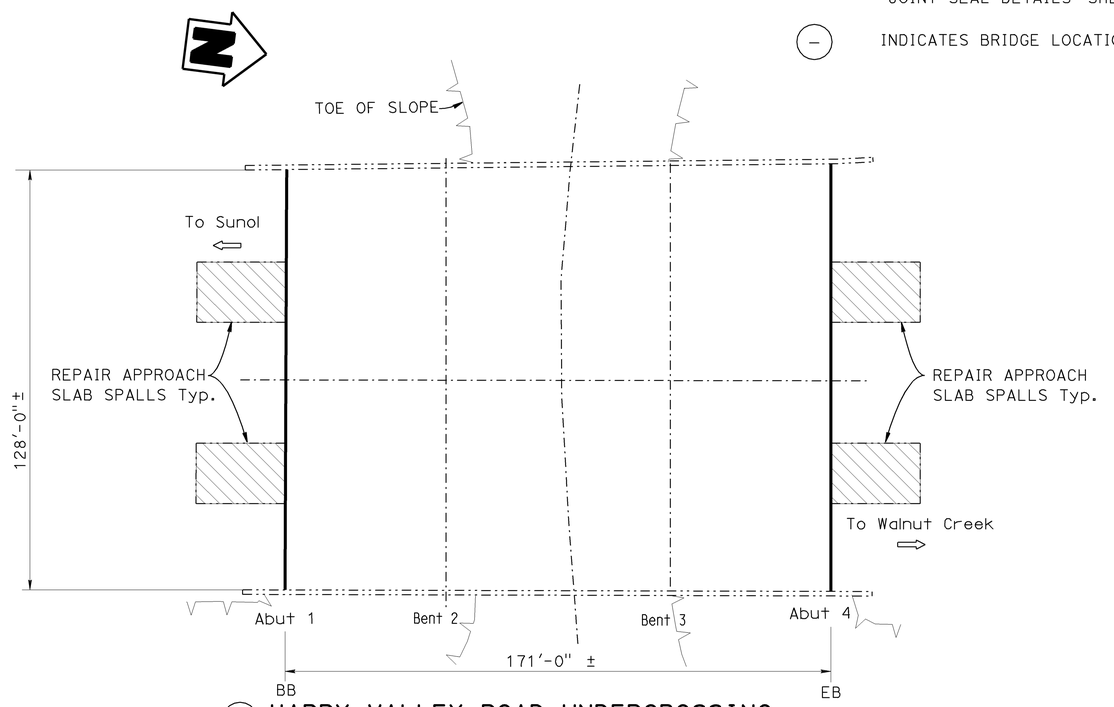
(19) HAPPY VALLEY ROAD UC — BR NO. 33-0385

QUANTITIES

REMOVE UNSOUND CONCRETE	8	CF
CLEAN EXPANSION JOINT	260	LF
HOT MIX ASPHALT (TYPE B) (PATCH)	8	CF
JOINT SEAL (MR1/2")	260	LF

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LIMITS PREPARE CONCRETE APPROACH SLAB SURFACE, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE AS SHOWN ON THE "DECK DAMAGE REPAIR DETAIL".
- INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE, CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.



(19) HAPPY VALLEY ROAD UNDERCROSSING

BR. No. 33-0385, Rte 680, PM R15.04

NO SCALE

DESIGN ENGINEER 07-12-10	DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
	DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee	
	QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0370 & 33-0385

GENERAL PLAN 8

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 04-21-10 | 06-07-10 | 07-08-10 | 07-14-10 | 07-30-10 | 09-14-10

SHEET 8 OF 14

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp008.dgn

USERNAME = s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	25	30

07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

CHRISTOPHER T. LEE No. C38395 Exp. 3-31-11 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 electronic copies of this plan sheet.

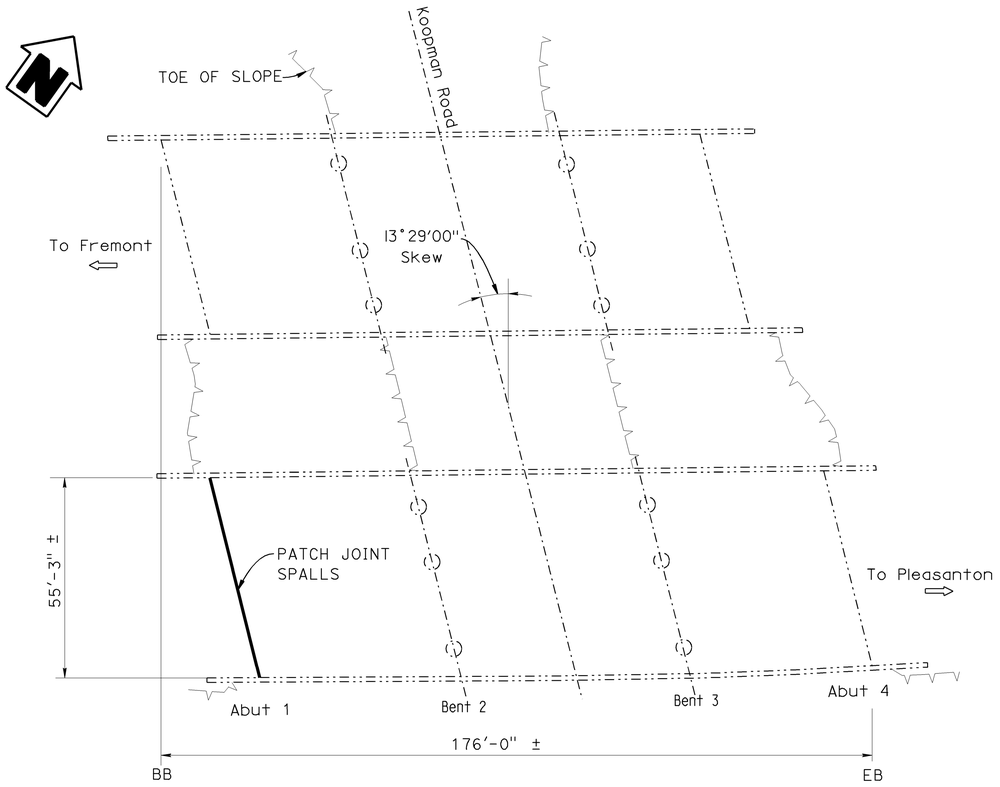
To get to the Caltrans web site, go to: http://www.dot.ca.gov

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.

(–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.



(18) KOOPMAN ROAD UNDERCROSSING

BR. No. 33-0386R, Rte 680, PM R12.44

NO SCALE

(9) 167TH AVE UC — BR NO. 33-0396R

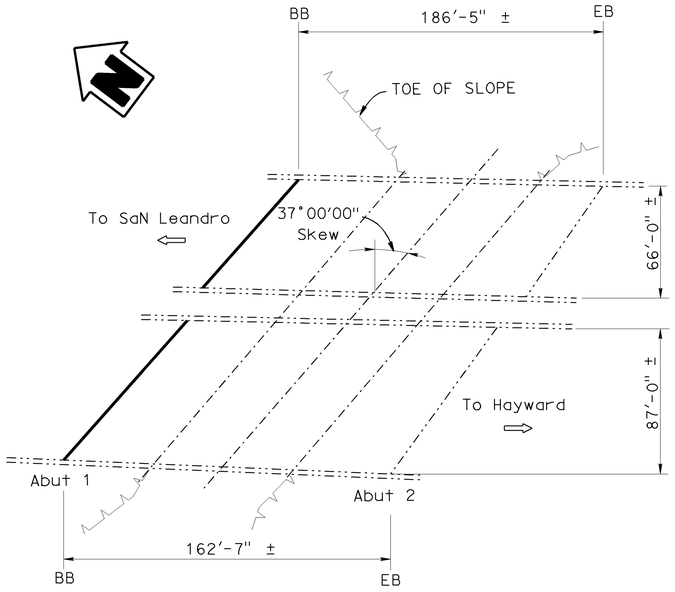
QUANTITIES

CLEAN EXPANSION JOINT	196	LF
JOINT SEAL (MR1/2")	196	LF

(18) KOOPMAN ROAD UC — BR NO. 33-0386R

QUANTITIES

CLEAN EXPANSION JOINT	59	LF
JOINT SEAL (MR1/2")	59	LF



(9) 167TH AVE UNDERCROSSING

BR. No. 33-0396R, Rte 580, PM R31.34

NO SCALE

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE AND INVESTIGATIONS
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee		
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED		

Kenneth R Brown
DESIGN ENGINEER 07-12-10

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-21-10 | 06-07-10 | 07-08-10

SHEET 9 OF 14

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0386R & 33-0396R

GENERAL PLAN 9

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp009.dgn

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	26	30

07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. LEE
No. C38395
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov

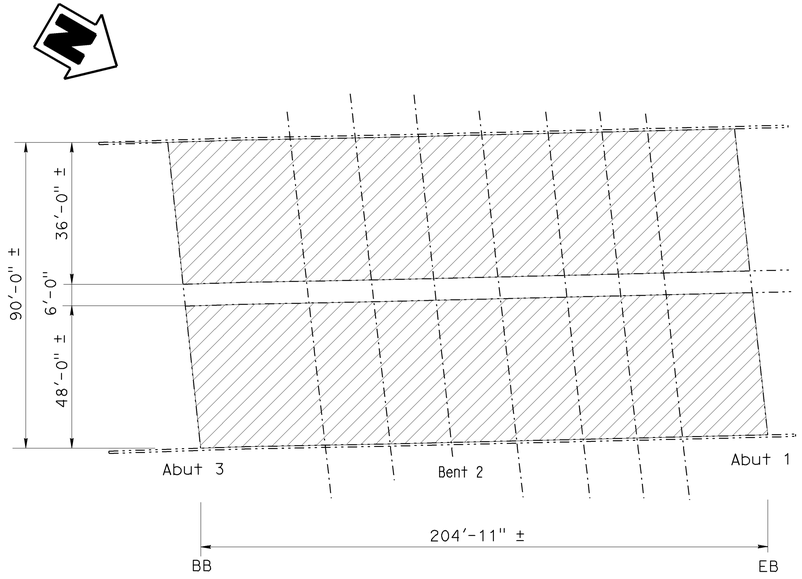
LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE, CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.

INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

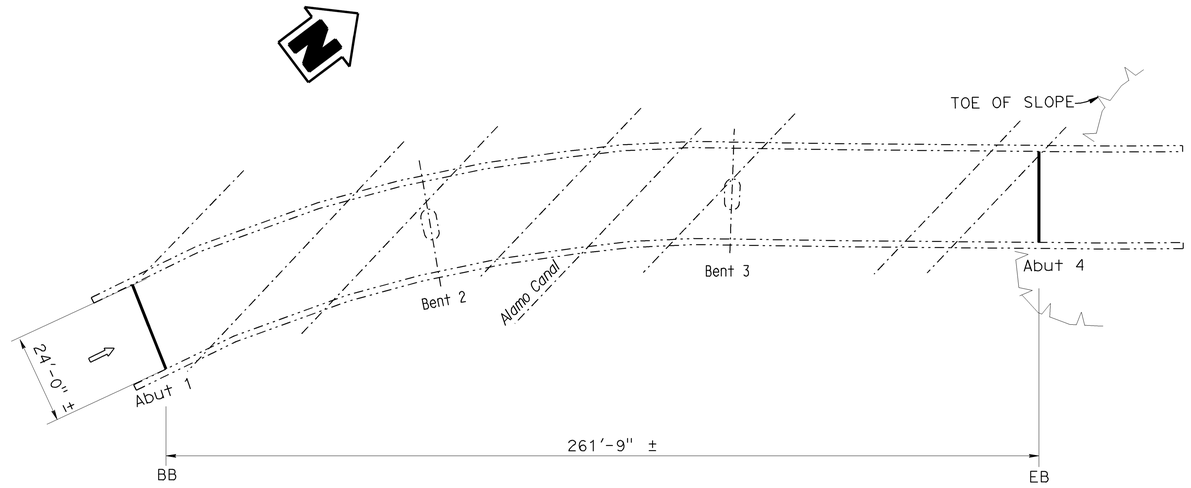


(3) HESPERIAN BOULEVARD OVERCROSSING
BR. No. 33-0445, Rte 92, PM R5.76
NO SCALE

(3) HESPERIAN BLVD OC — BR NO. 33-0445

QUANTITIES

REMOVE UNSOUND CONCRETE	59	CF
CLEAN BRIDGE DECK	17,220	SQFT
RAPID SETTING CONCRETE (PATCH)	59	CF
TREAT BRIDGE DECK	17,220	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	192	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



(20) ALAMO CANAL (SR1 OFFRAMP BRIDGE)
BR. No. 33-0580S, Rte 680, PM R19.07
NO SCALE

(20) ALAMO CANAL (SR1 OFFRAMP BRIDGE) — BR NO. 33-0580S

QUANTITIES

CLEAN EXPANSION JOINT	52	LF
JOINT SEAL (MR 1")	52	LF

Kenneth R Brown
DESIGN ENGINEER 07-12-10

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee		
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED		

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO.	REVISION DATES									SHEET	OF
VARIES	04-21-10	06-07-10	07-08-10	07-30-10						10	14
POST MILE											
VARIES											

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0445 & 33-0580S

GENERAL PLAN 10

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp010.dgn

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	27	30

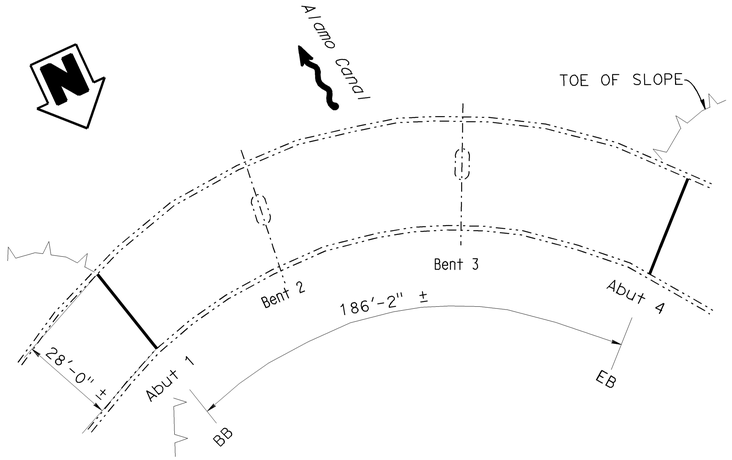
REGISTERED CIVIL ENGINEER 07-12-10 DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



21 ALAMO CANAL (SR2 ONRAMP BRIDGE)
BR. No. 33-0581S, Rte 680, PM R19.18
NO SCALE

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES LOCATION OF REMOVE EXISTING JOINT SEAL AND PLACE NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL DETAILS" SHEET.

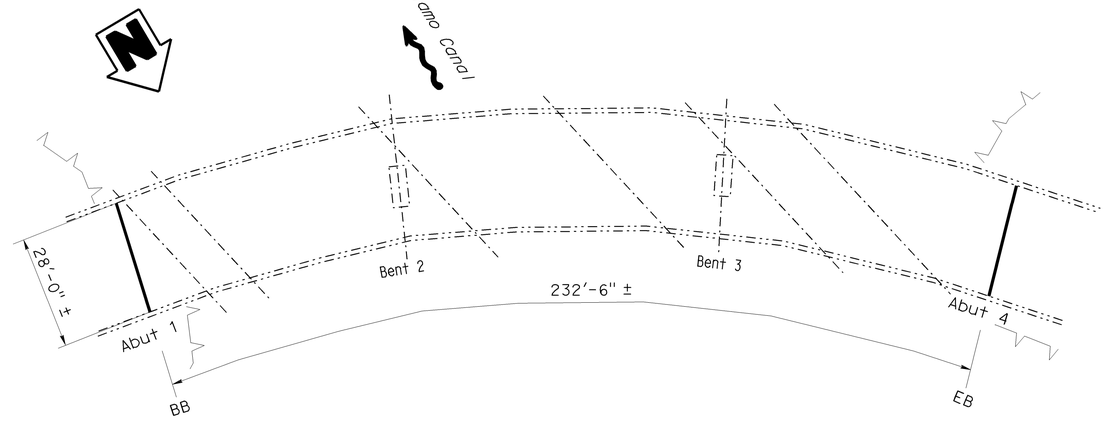
INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

21 ALAMO CANAL (SR2 ONRAMP BRIDGE) BR NO. 33-0581S
QUANTITIES

CLEAN EXPANSION JOINT	60	LF
JOINT SEAL (MR 1")	60	LF

22 ALAMO CANAL (SR3 ONRAMP BRIDGE) BR NO. 33-0582S
QUANTITIES

CLEAN EXPANSION JOINT	52	LF
JOINT SEAL (MR 1")	52	LF



22 ALAMO CANAL (SR3 ONRAMP BRIDGE)
BR. No. 33-0582S, Rte 680, PM R19.32
NO SCALE

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0581S & 33-0582S

GENERAL PLAN 11

DESIGN ENGINEER 07-12-10	DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
	DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee
	QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. VARIES
POST MILE VARIES

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04609
EA 1E9501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 04-21-10 06-07-10 07-08-10

SHEET 11 OF 14

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp011.dgn

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	28	30

07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. LEE
No. C38395
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov

(23) N680-E580 CONNECTOR BR NO. 33-0643G

QUANTITIES

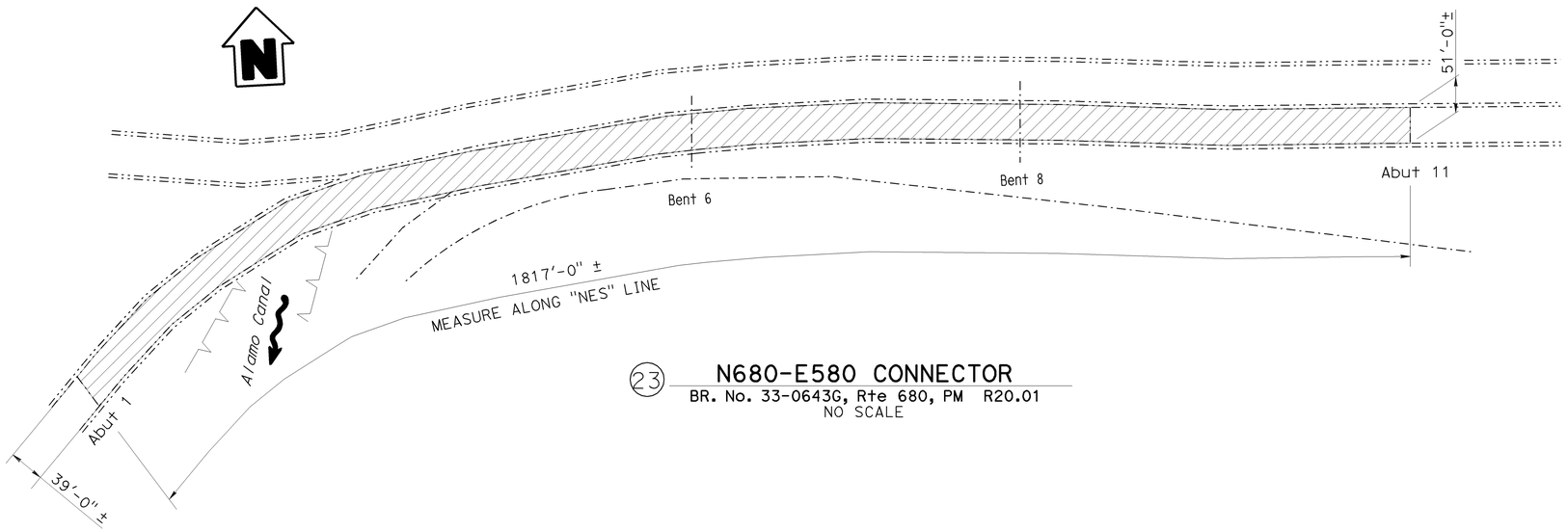
REMOVE UNSOUND CONCRETE	266	CF
CLEAN BRIDGE DECK	79,500	SQFT
RAPID SETTING CONCRETE (PATCH)	266	CF
TREAT BRIDGE DECK	79,500	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	888	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

LEGEND:

-·-·-·- INDICATES EXISTING STRUCTURE

INDICATES LIMITS OF REMOVE UNSOUND CONCRETE AND REPLACE WITH RAPID SETTING CONCRETE, CLEAN AND TREAT DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES BRIDGE LOCATION, SEE TITLE SHEET.



(23) N680-E580 CONNECTOR
BR. No. 33-0643G, Rte 680, PM R20.01
NO SCALE

Kenneth R Brown
DESIGN ENGINEER 07-12-10

DESIGN	BY C. Lee	CHECKED A.Kushkaki	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY M. Yu	CHECKED C. Lee	LAYOUT	BY M. Yu	CHECKED C. Lee		
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	SPECIFICATIONS	BY J. Ramirez	PLANS AND SPECS COMPARED		

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-21-10 | 06-07-10 | 07-08-10 | 07-30-10

SHEET 12 OF 14

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

Br. Nos. 33-0643G

GENERAL PLAN 12

USERNAME => s130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00

FILE => H:\Bridge_Preservation\119-10\1E9501-Chris\PLAN\rev final PSE after all- NOT IN USE\04-1E9501gp012.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	29	30

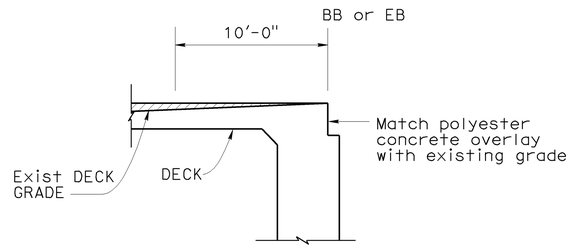
07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER T. LEE
No. C38395
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

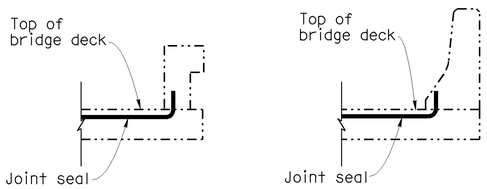
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov



LONGITUDINAL OVERLAY CONFORM DETAIL

Locations to be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal.
Also see "Deck Damage Repair Detail"
NO SCALE



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Details shown for illustration purposes only.
For use only where deck joint matches sidewalk, curb or barrier rail joint.
NO SCALE

JOINT SEAL TABLE

INDEX	BR. No.	LOCATION	MIN "MR" (in)	APPROX LENGTH (ft)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (inches)
(15)	33-0047	Abut 1	1/2	127 (PLUG SEAL)	NO	12
		Abut 16	1/2	127 (PLUG SEAL)	NO	12
(4)	33-0092	Bent 4	1	64	NO	12
(1)	33-0092	Abut 1	1/2	157	NO	12
(8)	33-0192L	Abut 1	1/2	68	NO	12
		Abut 2	1/2	68	NO	12
(5)	33-0196L	Abut 1	1/2	80	NO	12
(14)	33-0294	Abut 1	1/2	121	NO	12
		Abut 4	1/2	121	NO	12
(11)	33-0299K	Bent 2	1/2	36 (PLUG SEAL)	NO	12
		Bent 4	1/2	36 (PLUG SEAL)	NO	12
(10)	33-0332	Abut 1	1/2	141 (PLUG SEAL)	NO	12
		Abut 2	1/2	141 (PLUG SEAL)	NO	12
(16)	33-0351	Abut 1	1/2	155	NO	12
		Abut 4	1/2	165	NO	12
(17)	33-0352	Abut 1	1	185	NO	12
		Abut 4	1	185	NO	12
(12)	33-0356	Abut 1	1	155	NO	12
		Abut 5	1	155	NO	12
(2)	33-0370	Abut 1	1/2	192	NO	12
		Bent 2	1/2	192	NO	12
		Bent 3	1/2	192	NO	12
		Abut 4	1/2	192	NO	12
(19)	33-0385	Abut 1	1/2	130	NO	12
		Abut 4	1/2	130	NO	12
(18)	33-0386R	Abut 1	1/2	59	NO	12
(9)	33-0396R	Abut 1	1/2	88	NO	12
(20)	33-0580S	Abut 1	1	26	NO	12
		Abut 4	1	26	NO	12
(21)	33-0581S	Abut 1	1	30	NO	12
		Abut 4	1	30	NO	12
(22)	33-0582S	Abut 1	1	26	NO	12
		Abut 4	1	26	NO	12

The following note applies to JOINT SEAL TYPE A:

Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches vcurb or rail joint. For details not shown see RSP B6-21.

The following note applies to JOINT SEAL TYPE B:

1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.

3) W1 shall be the smaller of the values determined as follows:

   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.

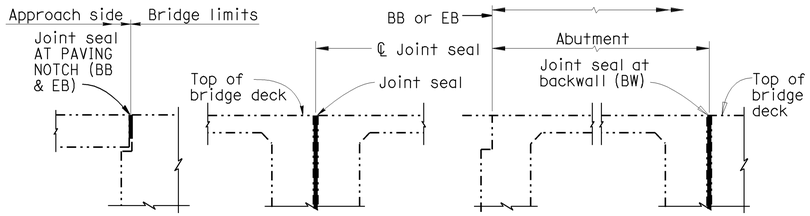
   B) The width of the seal on the third succesive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.

4) Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

5) For details not shown see RSP B6-21.

NOTES:

-·-·-·- Indicates existing structure



JOINT SEAL LOCATION

NO SCALE

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY C. Lee	CHECKED A.Kushkaki	
DETAILS	BY M. Yu	CHECKED C. Lee	
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

BRIDGE

JOINT SEAL DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

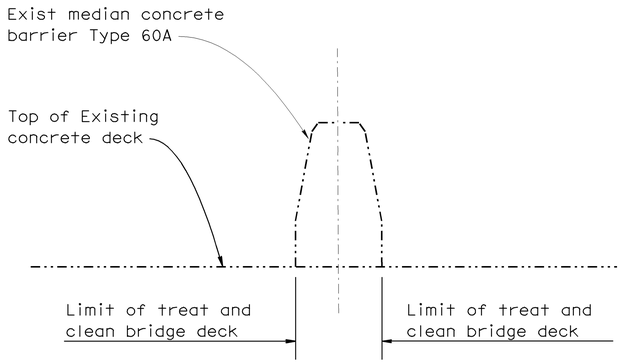
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-21-10 | 06-01-10 | 07-08-10

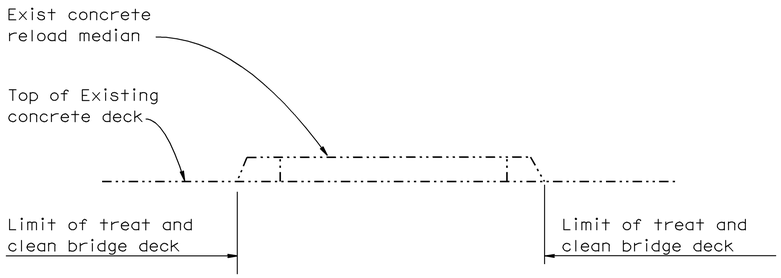
SHEET 13 OF 14

FILE => 04-1E9501jst01.dgn

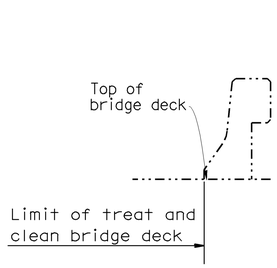
USERNAME => s1130817 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00



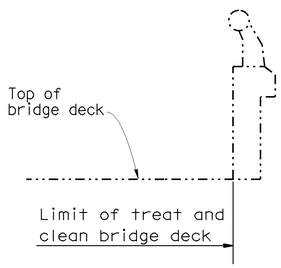
MEDIAN BARRIER



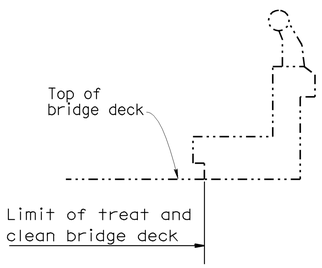
RAISED MEDIAN



END BARRIER



SIDEWALK BARRIER TYPE 2



SIDEWALK BARRIER TYPE1

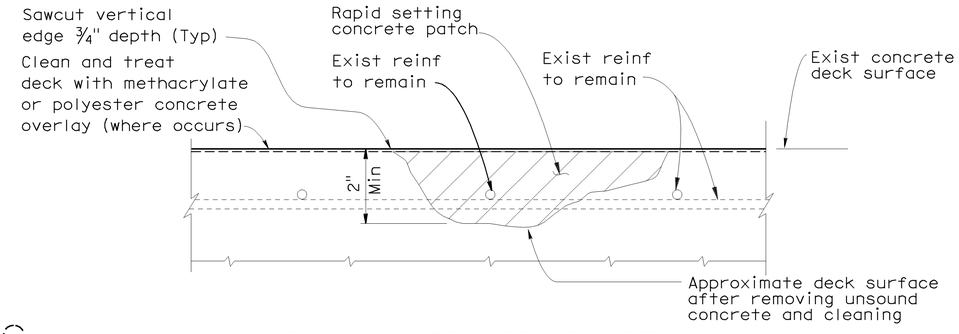
TYPICAL LIMITS OF DECK WORK
NO SCALE

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

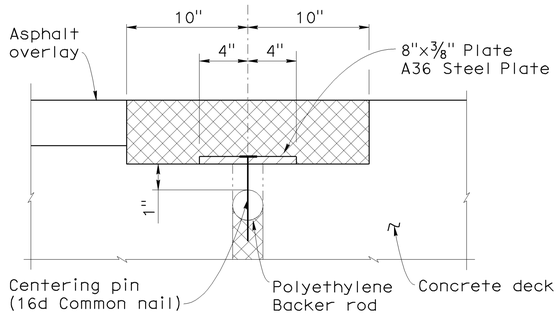
DECK REPAIR DETAILS

LOCATION	BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (percent)	APPROXIMATE DEPTH DAMAGED (inches)	REMOVE UNSOUND CONCRETE (cu ft)	RAPIDSETTING CONCRETE PATCH (cu ft)
15	ALAMEDA CREEK	33-0047	2	2	0	** 256.0
1	MOUNT EDEN OVERHEAD	33-0092	2	2	103.0	103.0
13	98TH AVENUE OC	33-0110	2	2	105.0	105.0
6	GREENVILLE OVERHEAD	33-0121R	2	2	105.0	* 105.0
7	PORTOLA AVENUE OC	33-0140	2	2	46.0	46.0
8	SCHAEFER RANCH ROAD UC	33-0192L	2	2	25.0	25.0
5	GRANT LINE ROAD UC	33-0196L	2	2	36.0	36.0
10	ESTUDILLO AVENUE UC	33-0332	2	2	64.0	64.0
16	CALAVERAS ROAD SEPARATION	33-0351	2	2	89.0	89.0
2	INDUSTRIAL BOULEVARD UC	33-0370	2	2	110.0	110.0
19	HAPPY VALLEY ROAD UC	33-0385	2	2	7.6	7.6
3	HESPERIAN BOULEVARD OC	33-0445	2	2	59.0	59.0
23	N680-E580 CONNECTOR	33-0643G	2	2	266.0	266.0

* Use polyestor concrete patches.
** Use asphalt concrete patches.



DECK DAMAGE REPAIR DETAIL
Location will be determined by the Engineer. Reinforcement may be enc during deck concrete removal and to remain undamaged



ASPHALTIC PLUG DETAIL
No Scale

DECK REPAIR NOTES

1) Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2) It is responsibility of the Contractor to repair any reinforcement that is accidently damaged during the saw cutting operation.
3) When existing transverse reinforcement is exposed in the deck surfaces, saw cutting shall be waived with the approval of the Engineer.
4) The saw cut depth shall not exceed 1 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5) Remove unsound Portland cement concrete and unsound concrete patches to expose sound, hard concrete substrate, replace original deck surface with rapid setting concrete patch.

NOTES:

-·-·-·- Indicates existing structure

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	Var	Var	30	30

07-12-10
REGISTERED CIVIL ENGINEER DATE

9-13-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER T. LEE No. C38395 Exp. 3-31-11 CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To get to the Caltrans web site, go to: http://www.dot.ca.gov

DESIGN	BY C. Lee	CHECKED A.Kushkaki	
DETAILS	BY M. Yu	CHECKED C. Lee	
QUANTITIES	BY C.Lee	CHECKED A.Kushkaki	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

CU 04609
EA 1E9501

BRIDGE NO. VARIES
POST MILE VARIES

REPLACE JOINT SEALS AND TREAT BRIDGE DECK

MISCELLANEOUS DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 04-21-10 | 06-01-10 | 07-08-10

SHEET 14 OF 14

FILE => 04-1E9501jst02.dgn

USERNAME => s1308177 DATE PLOTTED => 15-SEP-2010 TIME PLOTTED => 09:00