INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-9	LAYOUTS
10-25	CONSTRUCTION DETAILS
26	CONSTRUCTION AREA SIGNS
27-29	TRAFFIC HANDLING PLANS AND QUANTITIES
30	MOTORIST INFORMATION PLAN
31-37	SIGN PLANS AND QUANTITIES
38-39	SUMMARY OF QUANTITIES
40-43	IRRIGATION PLANS, DETAILS AND QUANTITIES
44-62	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

ACNHP-P099(600)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	1	62

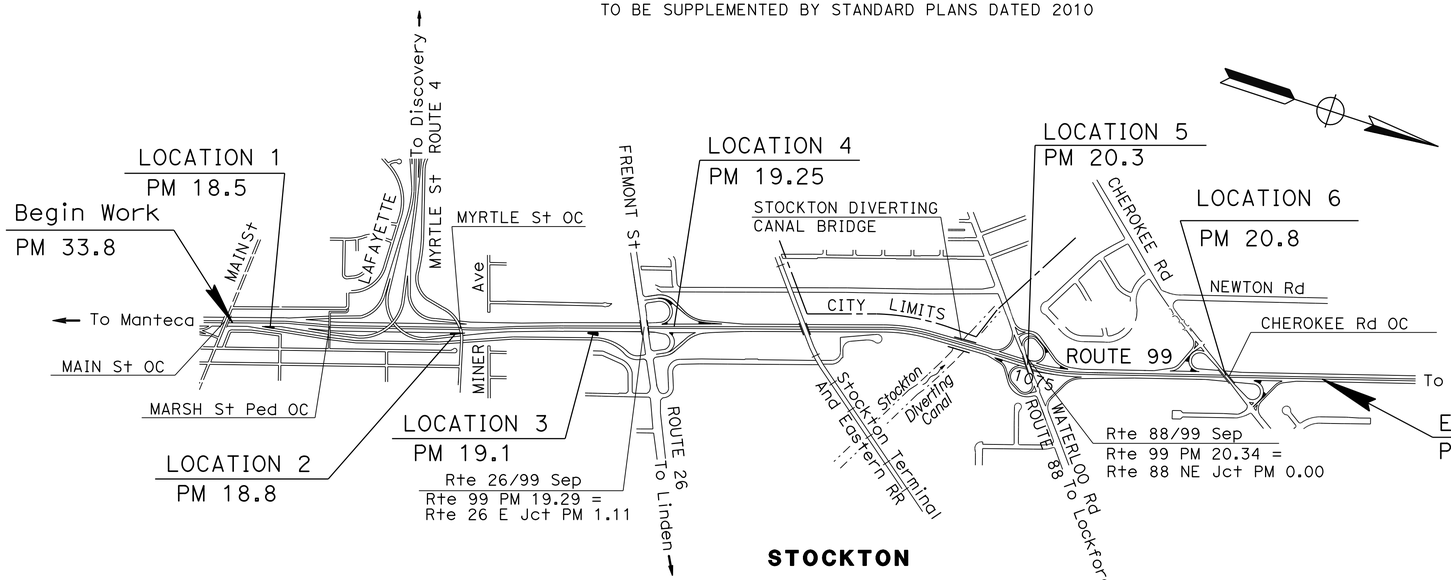
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN JOAQUIN COUNTY AT VARIOUS LOCATIONS FROM 0.1 MILE NORTH OF MAIN STREET OVERCROSSING TO CHEROKEE ROAD OVERCROSSING AND FROM ROUTE 12/99 SEPERATION TO 0.1 MILE NORTH OF ACAMPO ROAD OVERCROSSING

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: SINAREN PHENG

DESIGN ENGINEER: NOMER GUTIERREZ

Richard J. Boyer 3/9/16

PROJECT ENGINEER — DATE

REGISTERED CIVIL ENGINEER

RICHARD J. BOYER No. 75844 Exp. 6/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

April 4, 2016

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.

CONTRACT No.	10-0X6404
PROJECT ID	1013000083

LAST REVISION 03-18-16

DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	2	62

R. Richard Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE IRRIGATION PLANS FOR IRRIGATION CONDUIT LOCATIONS.

LEGEND:

- GORE PAVING EXTENTION
- MVP HMA (TYPE A)
- SLOPE PAVING
- TEXTURE PAVING (BRICK BASKET WEAVE)
- TEXTURE PAVING (BRICK RUNNING BOND PATTERN)

DESIGN DESIGNATION

SLOPE, GORE, AND MVP PAVING

PM: 18.5 - 20.8

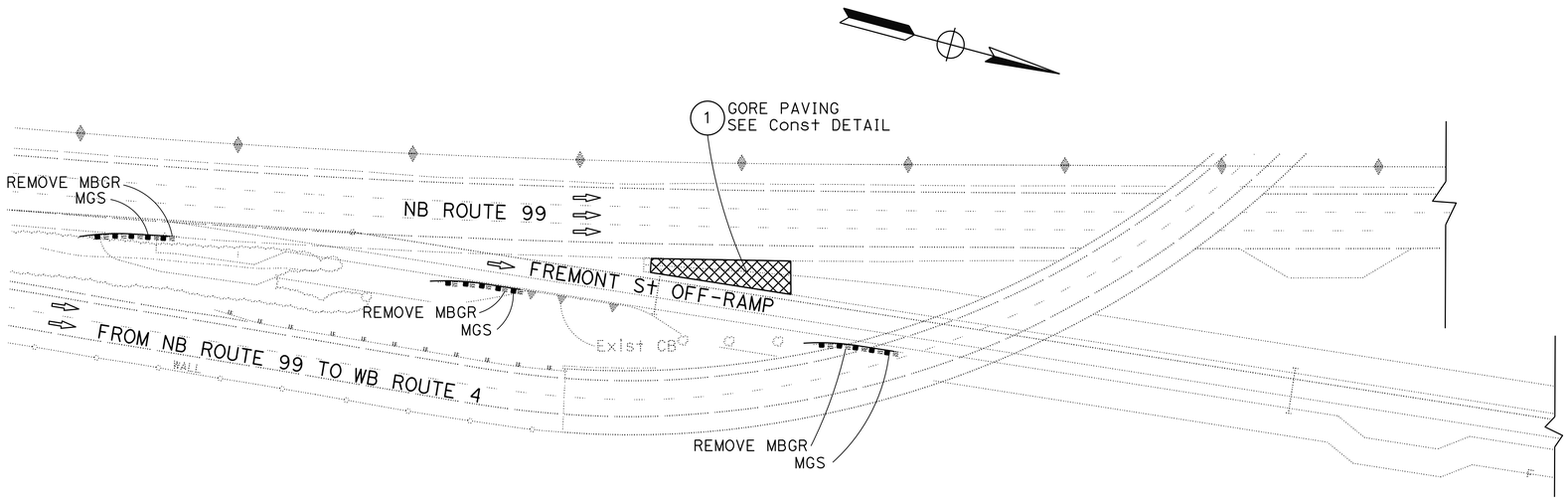
AADT	2015 (Exist YEAR)	100,600	T=11%
AADT	2017 (Const YEAR)	105,600	D=61%
AADT	2037 (DESGN YEAR)	171,400	
FUTURE DHV		17,200	

PM: 29.3 - 33.7

AADT	2015 (Exist YEAR)	67,600	T=11%
AADT	2017 (Const YEAR)	70,600	D=60%
AADT	2037 (DESGN YEAR)	105,000	
FUTURE DHV		10,500	

PAVEMENT CLIMATE REGION

INLAND VALLEY



(1) NB 99 TO FREMONT St OFF-RAMP

LOCATION 1

PM 18.5

LAYOUT

SCALE: 1" = 50'

L-1

G.E.	03/18/16				
G.E.	2/8/16				
REVISED BY	DATE REVISED				
GABE ELEFANTE	RICHARD BOYER				
CALCULATED-DESIGNED BY	CHECKED BY				
FUNCTIONAL SUPERVISOR					
NOMER GUTIERREZ					
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION					
Caltrans®	DESIGN				

LAST REVISION 2-18-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

NOTE:

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

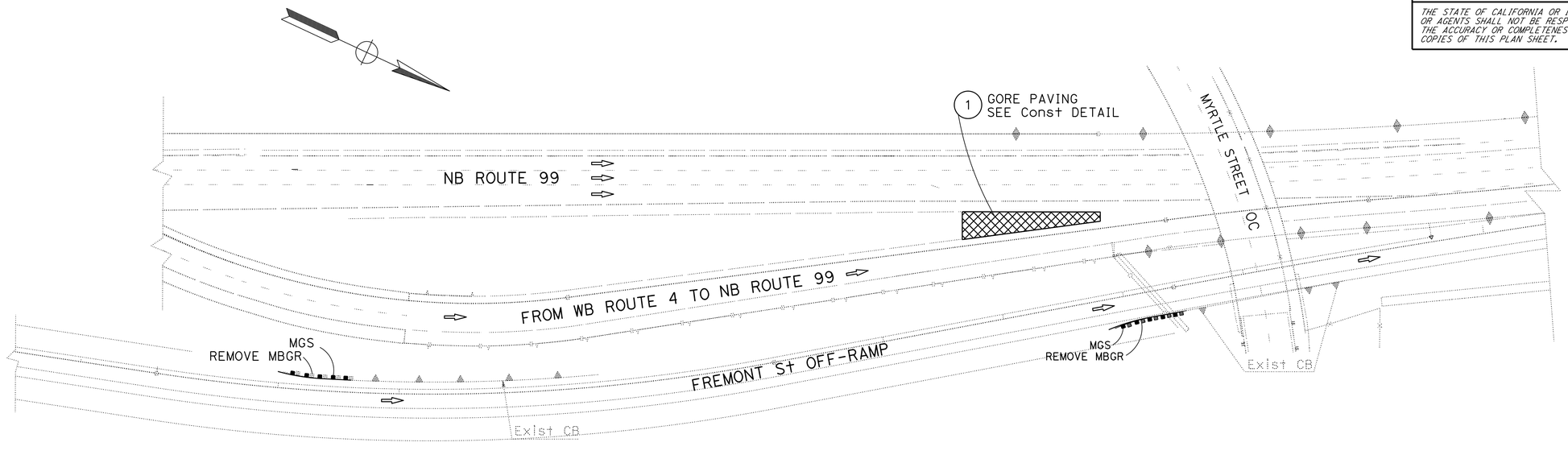
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	3	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

RICHARD J. BOYER No. 75844 Exp.6/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

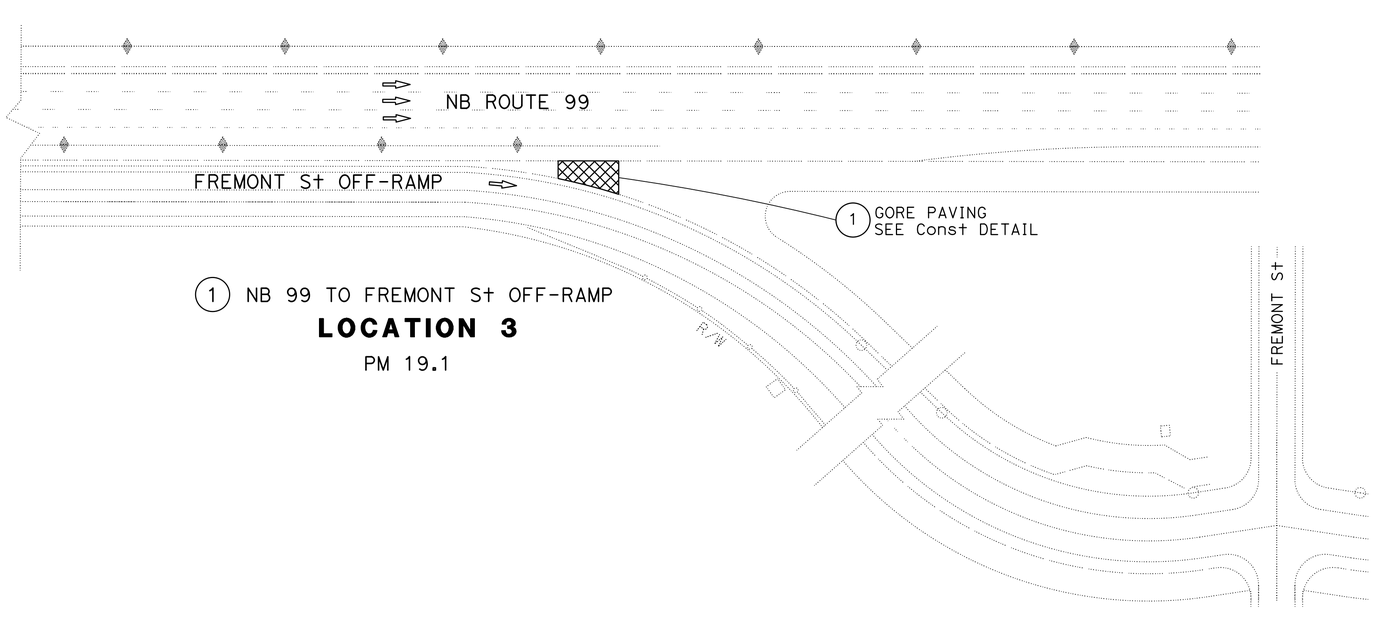
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



1 WB 04 TO NB 99 ON-RAMP

LOCATION 2

PM 18.8



1 NB 99 TO FREMONT St OFF-RAMP

LOCATION 3

PM 19.1

LAYOUT

SCALE: 1" = 50'

L-2

REVISED BY	G.E.	G.E.	G.E.
DATE REVISED	03/18/16	2/8/16	

CALCULATED-DESIGNED BY: GABE ELEFANTE
CHECKED BY: RICHARD BOYER

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION: DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43
2-8-16

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 1013000083ea002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1454

PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	4	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

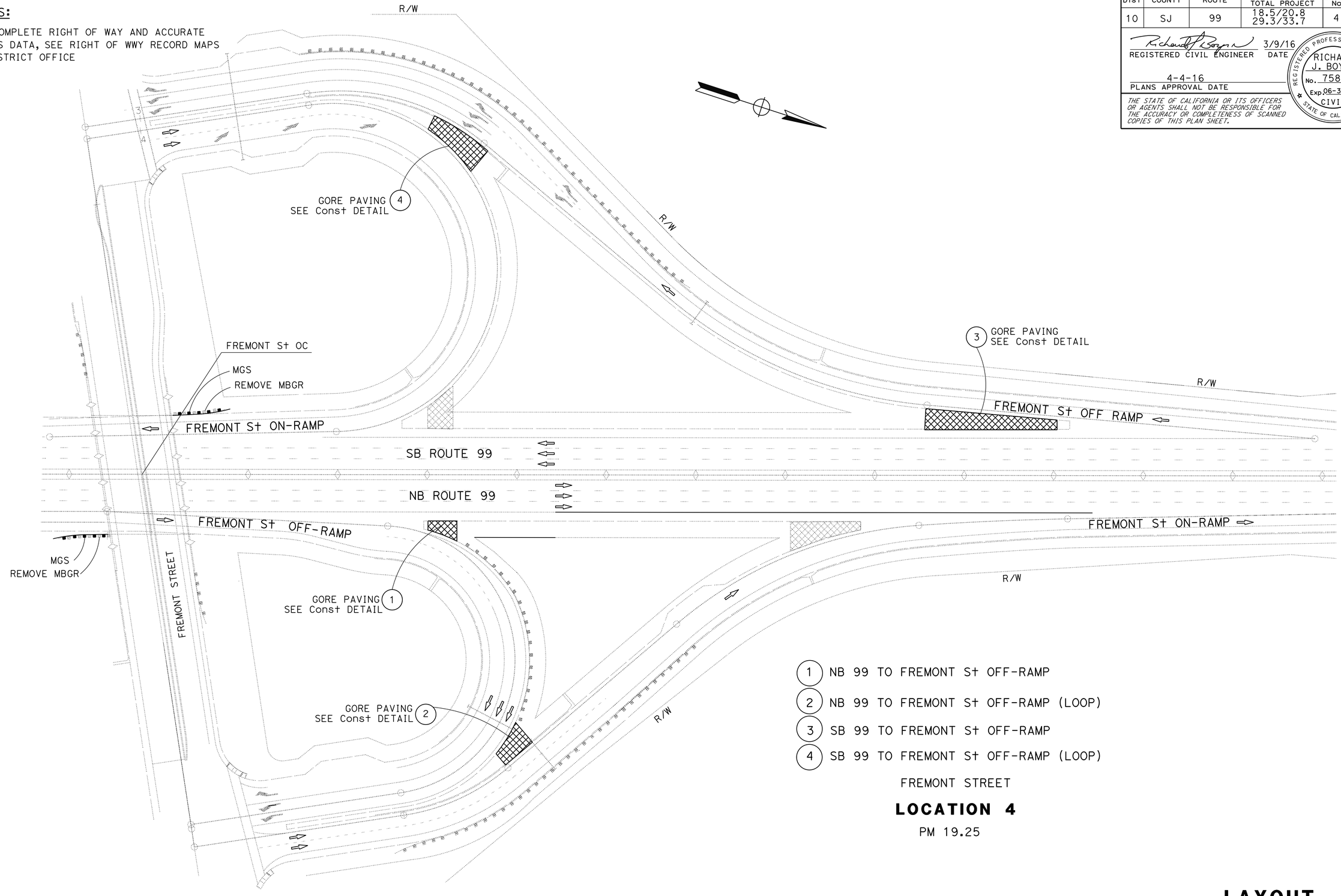
4-4-16
PLANS APPROVAL DATE

RICHARD J. BOYER No. 75844 Exp 06-30-16 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:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WWY RECORD MAPS AT DISTRICT OFFICE



1. NB 99 TO FREMONT St OFF-RAMP
2. NB 99 TO FREMONT St OFF-RAMP (LOOP)
3. SB 99 TO FREMONT St OFF-RAMP
4. SB 99 TO FREMONT St OFF-RAMP (LOOP)

FREMONT STREET

LOCATION 4

PM 19.25

LAYOUT

SCALE: 1" = 50'

L-3

G.E.	03/18/16		
G.E.	2/12/16		
REVISED BY	DATE REVISED		
GABE ELEFANTE	RICHARD BOYER		
CALCULATED-DESIGNED BY	CHECKED BY		

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

Caltrans

LAST REVISION 2-12-16

DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 1013000083ea003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1454

PROJECT NUMBER & PHASE 10130000831

NOTE:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OFWAY RECORD MAPS AT DISTRICT OFFICE

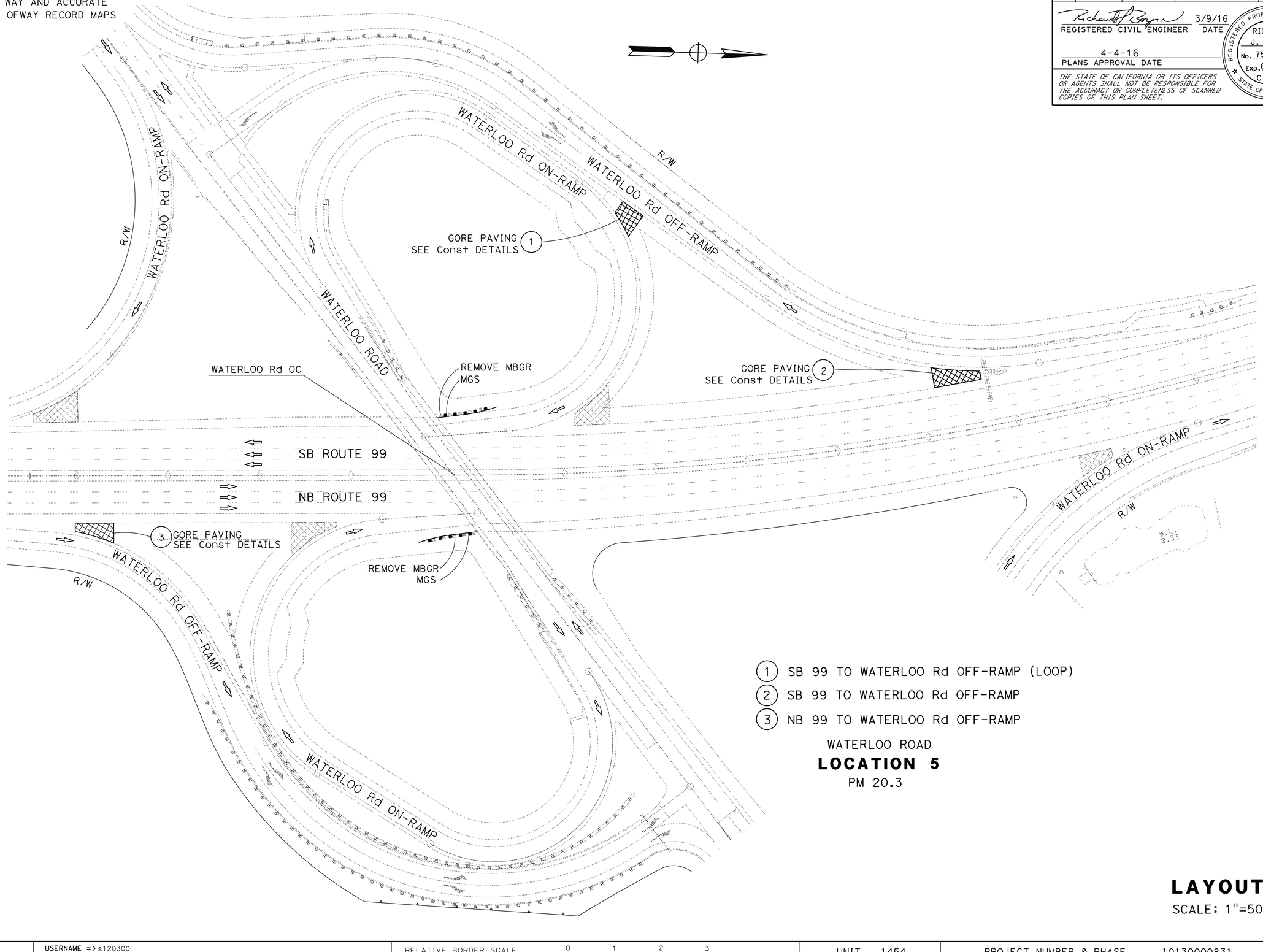
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	5	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp.6/30/16
CIVIL
STATE OF CALIFORNIA

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



1. SB 99 TO WATERLOO Rd OFF-RAMP (LOOP)
2. SB 99 TO WATERLOO Rd OFF-RAMP
3. NB 99 TO WATERLOO Rd OFF-RAMP

WATERLOO ROAD

LOCATION 5

PM 20.3

LAYOUT

SCALE: 1"=50'

L-4

	G.E.	03/18/16
	G.E.	2/12/16
REVISED BY		
DATE REVISED		
CALCULATED-DESIGNED BY	HELEN LAM	
CHECKED BY	RICHARD BOYER	
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 2-12-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 1013000083ea004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1454

PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	6	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

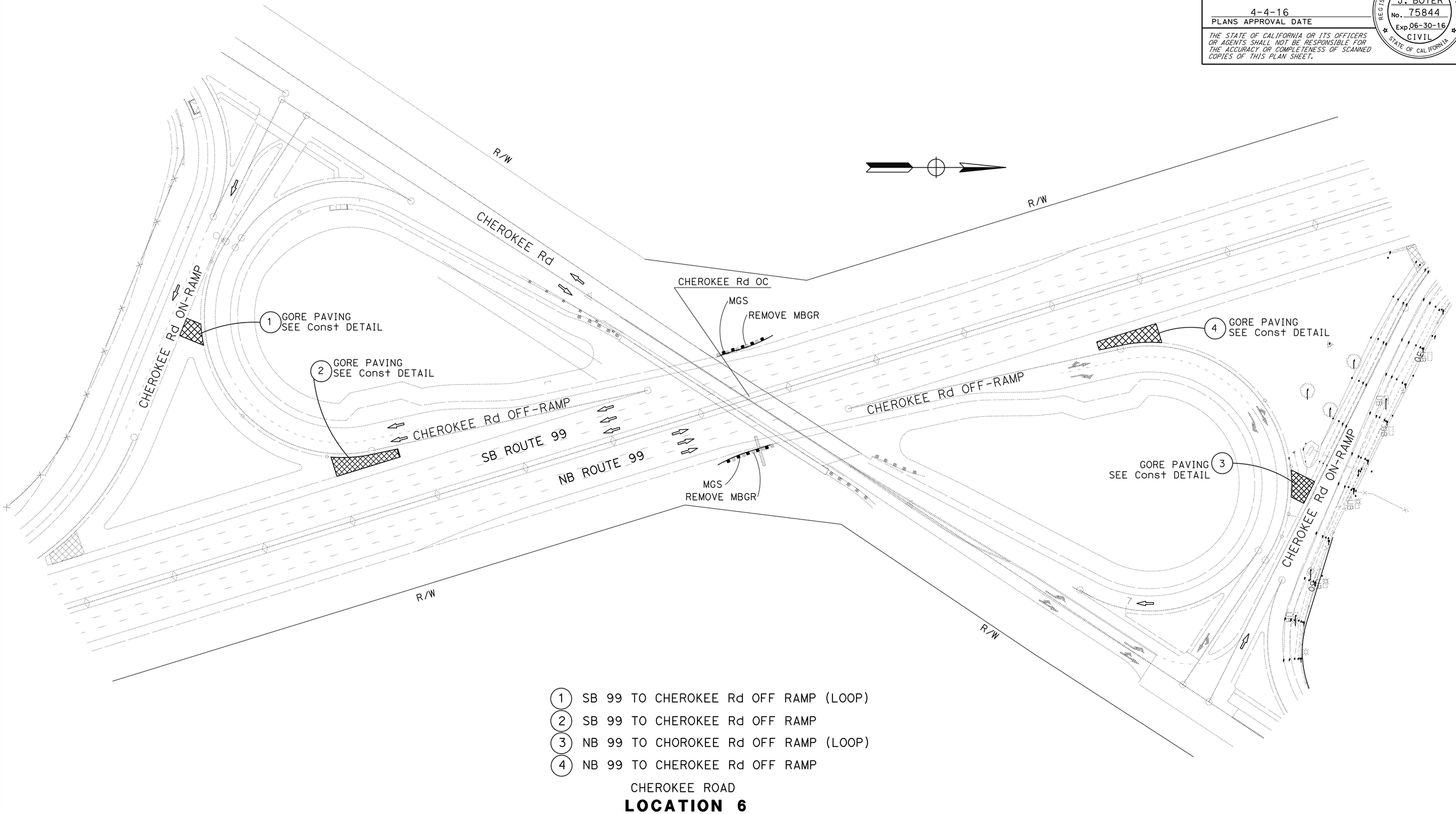
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 06-30-16
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.

NOTE:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



1. SB 99 TO CHEROKEE Rd OFF RAMP (LOOP)
2. SB 99 TO CHEROKEE Rd OFF RAMP
3. NB 99 TO CHOROKEE Rd OFF RAMP (LOOP)
4. NB 99 TO CHEROKEE Rd OFF RAMP

CHEROKEE ROAD

LOCATION 6

PM 20.8

LAYOUT

SCALE: 1" = 50'

L-5

	G.E.	03/18/15
	G.E.	2/12/15
REVISED BY		DATE REVISED
GABE ELEFANTE		
RICHARD BOYER		
CALCULATED-DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	

LAST REVISION 2-12-15
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 1013000083ea005.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1453

PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	7	62

R. Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

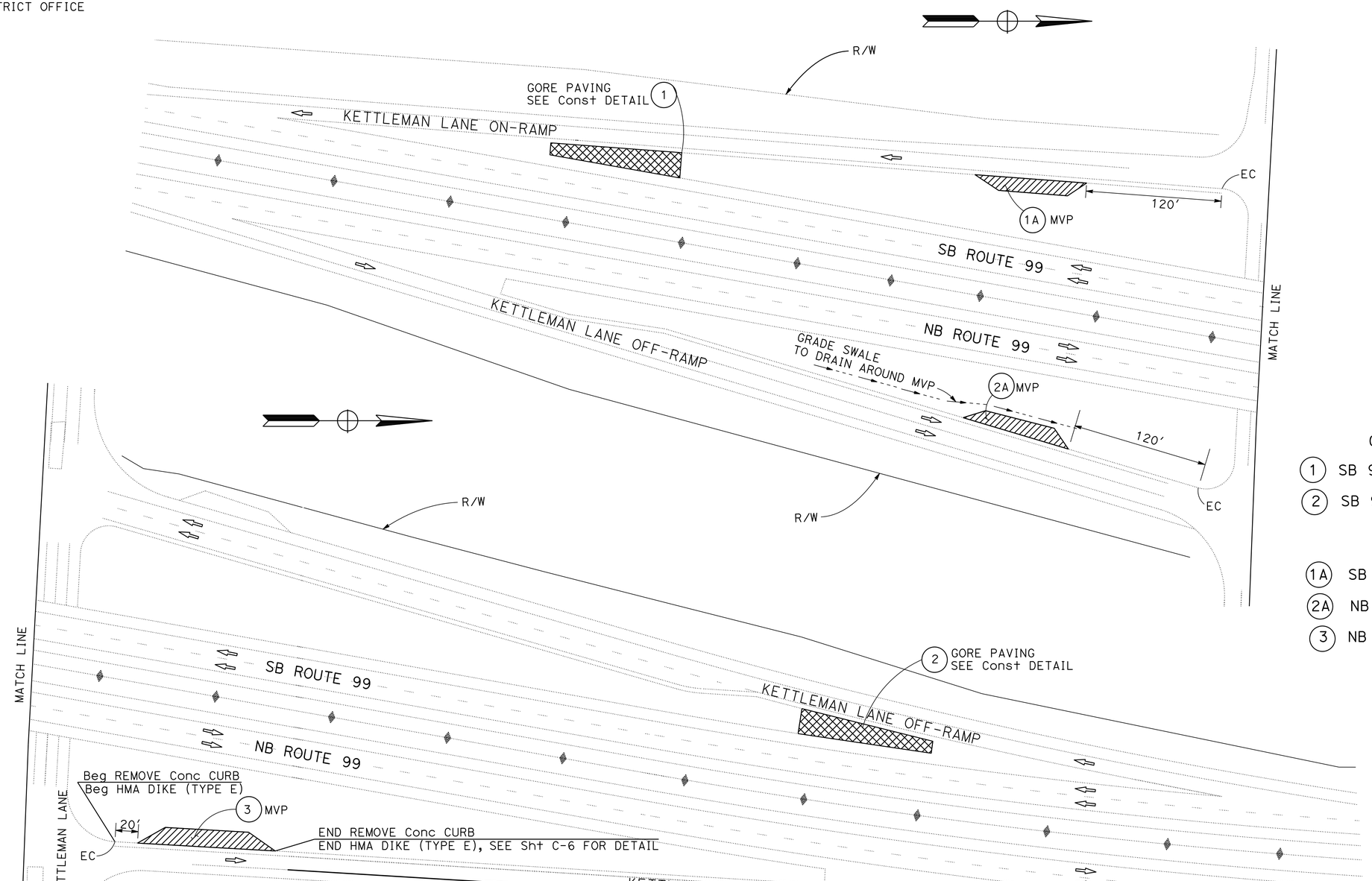
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 06-30-16
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:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



GORE PAVING/EXTENSION

(1) SB 99 FROM KETTLEMAN LANE ON-RAMP

(2) SB 99 TO KETTLEMAN LANE OFF-RAMP

MVP

(1A) SB 99 FROM KETTLEMAN LANE ON-RAMP

(2A) NB 99 TO KETTLEMAN LANE OFF-RAMP

(3) NB 99 FROM KETTLEMAN LANE ON-RAMP

KETTLEMAN LANE

LOCATION 7

PM 29.3

LAYOUT

SCALE: 1" = 50'

L-6

	REVISED BY	DATE REVISED
G.E.	G.E.	03/18/16
	G.E.	2/16/16

CALCULATED-DESIGNED BY: GABE ELEFANTE
CHECKED BY: RICHARD BOYER

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

LAST REVISION 2-16-15

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 1013000083ea006.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1453

PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	8	62

REGISTERED CIVIL ENGINEER — 3/9/16 DATE

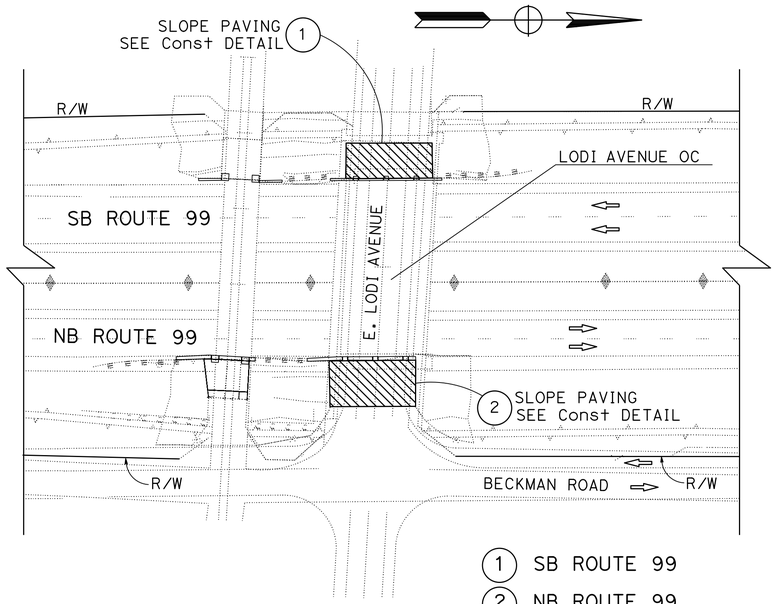
RICHARD J. BOYER No. 75844 Exp 06-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-4-16
PLANS APPROVAL DATE

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

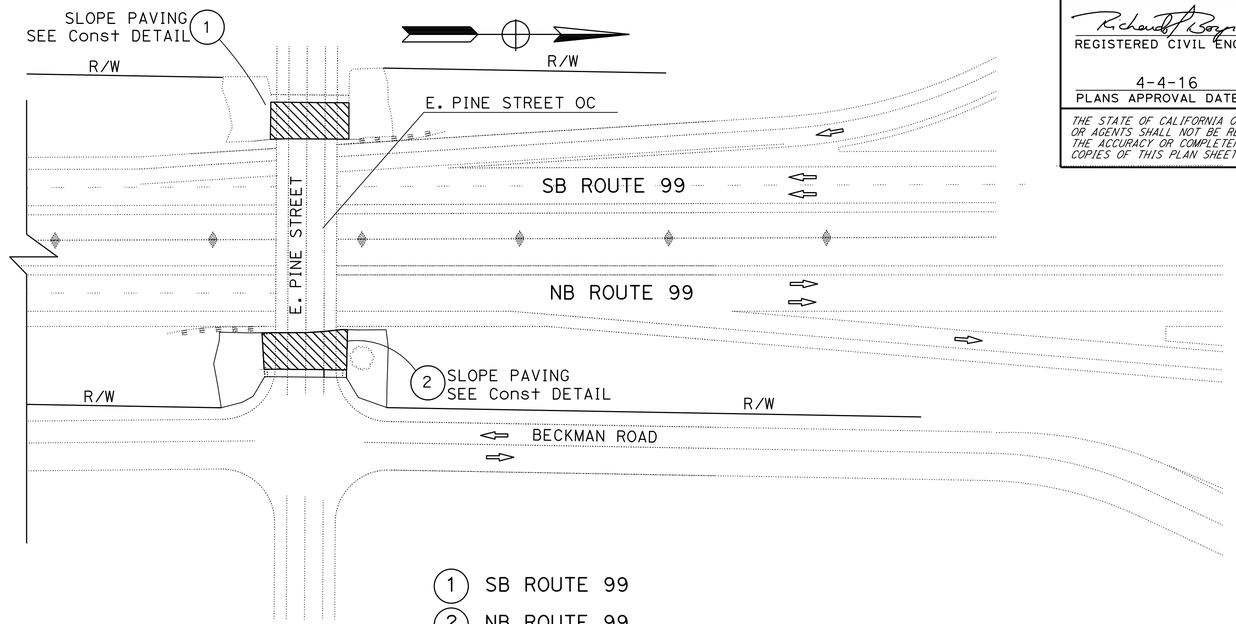
NOTES:

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



1 SB ROUTE 99
2 NB ROUTE 99

E. LODI AVENUE
LOCATION 8
PM 30.5

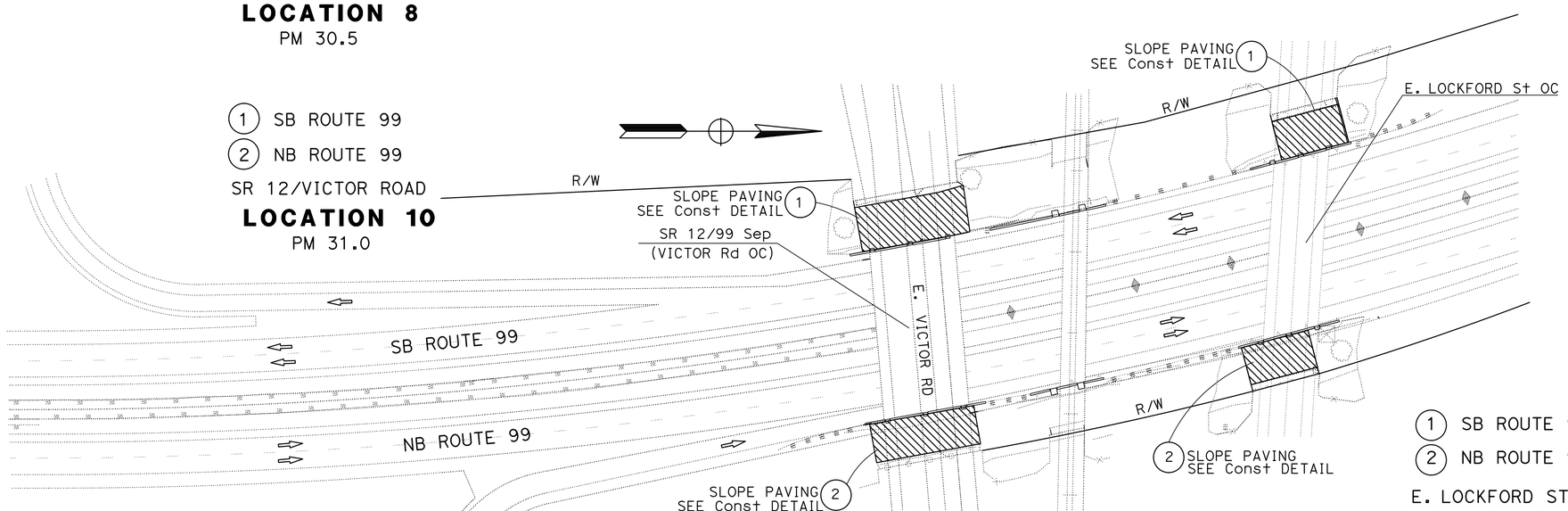


1 SB ROUTE 99
2 NB ROUTE 99

E. PINE STREET
LOCATION 9
PM 30.75

1 SB ROUTE 99
2 NB ROUTE 99
SR 12/VICTOR ROAD

LOCATION 10
PM 31.0



1 SB ROUTE 99
2 NB ROUTE 99

E. LOCKFORD STREET
LOCATION 11
PM 31.0

SLOPE PAVING

LAYOUT
SCALE: 1" = 50'

L-7

G.E.	03/18/16				
G.E.	2/16/16				
REVISED BY	DATE REVISED				
GABE ELEFANTE	RICHARD BOYER				
CALCULATED-DESIGNED BY	CHECKED BY				
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ				
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	Caltrans			

LAST REVISION 2-16-15
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ea007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1453
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	9	62

Richard J Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

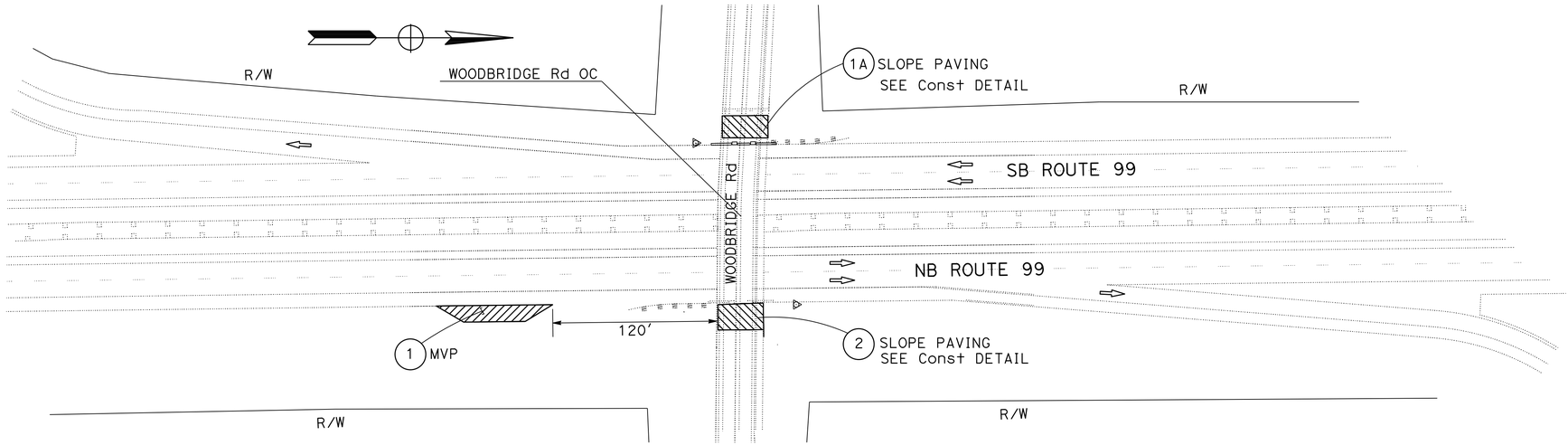
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 06-30-16
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:

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



MVP INSTALLATION

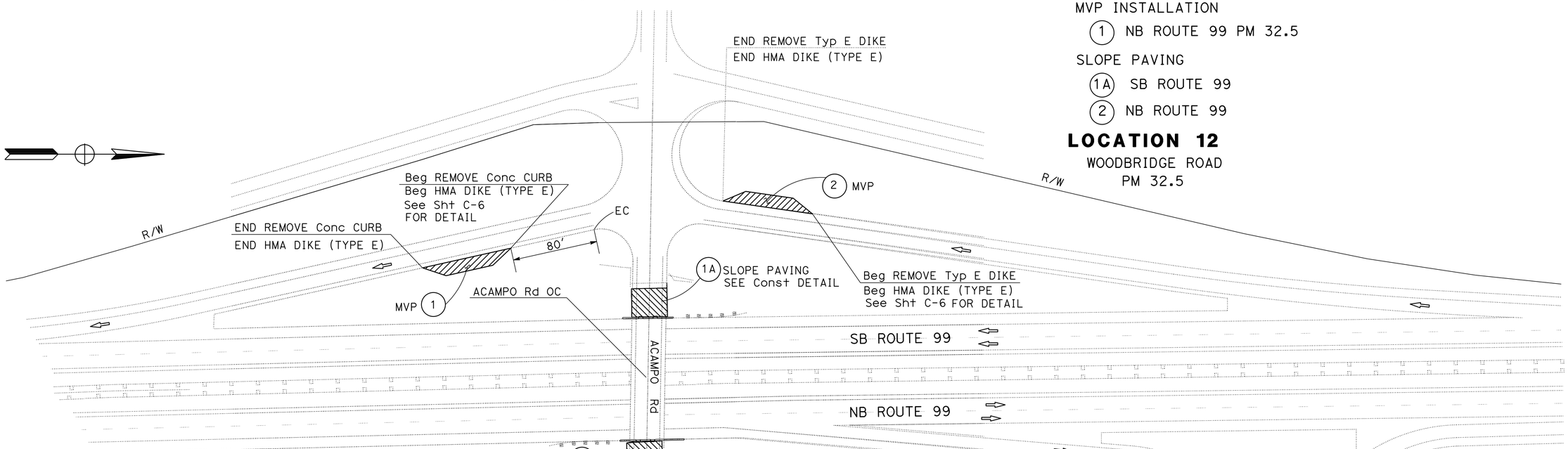
(1) NB ROUTE 99 PM 32.5

SLOPE PAVING

(1A) SB ROUTE 99

(2) NB ROUTE 99

LOCATION 12
WOODBRIDGE ROAD
PM 32.5



MVP

(1) SB 99 FROM ACAMPO Rd ON RAMP

(2) SB 99 TO ACAMPO Rd OFF RAMP

SLOPE PAVING

(1A) SB ROUTE 99

(2A) NB ROUTE 99

LOCATION 13
ACAMPO ROAD
PM 33.7

LAYOUT
SCALE: 1" = 50'

L-8

REVISED BY	DATE REVISED
G.E.	2/16/16
G.E.	03/18/16

CALCULATED-DESIGNED BY: GABE ELEFANTE
CHECKED BY: RICHARD BOYER
FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 2-16-15
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 10130000ea008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1453
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	10	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

RICHARD J. BOYER No. 75844 Exp.6/30/16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

4-4-16
PLANS APPROVAL DATE

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

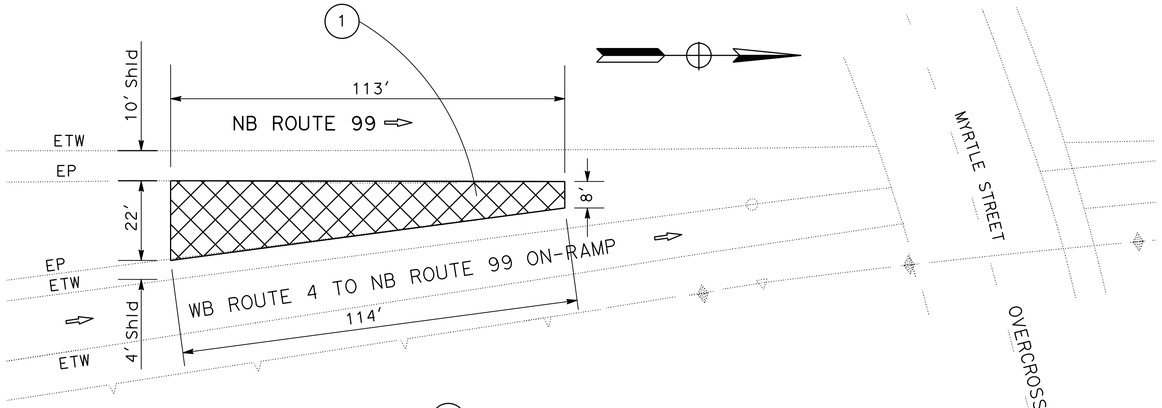
NOTES:

ALL UTILITY BOXES, RAMP METERING BOXES AND LIGHT/SIGNAL POLES TO BE PROTECTED IN PLACE.

LEGEND:

UB — EXISTING UTILITY BOX

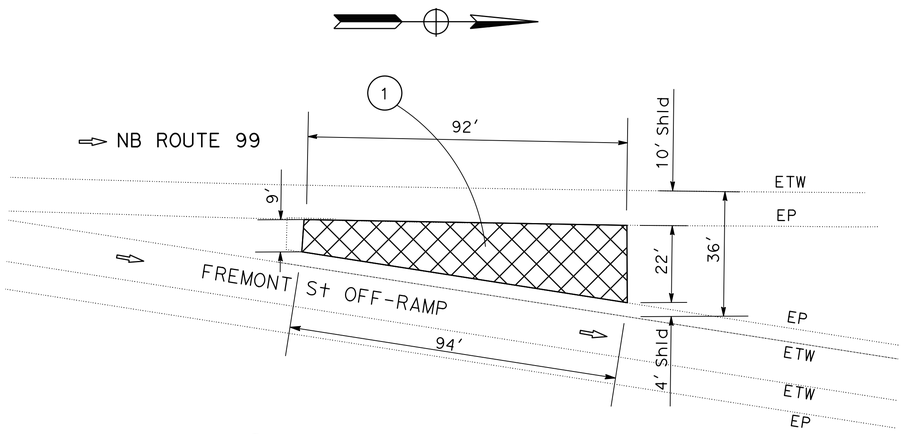
SLOPE PAVING



(1) WB SR 4 TO NB SR 99 ON-RAMP

LOCATION 2

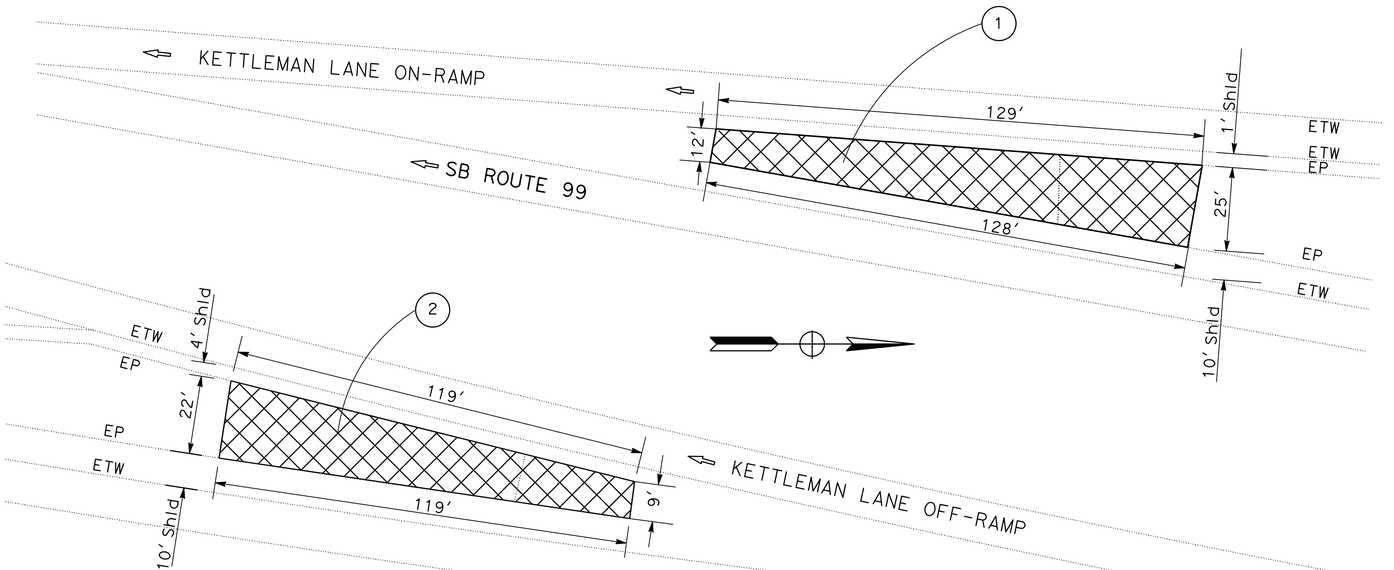
PM 18.8



(1) NB SR 99 TO FREMONT St OFF-RAMP

LOCATION 1

PM 18.5

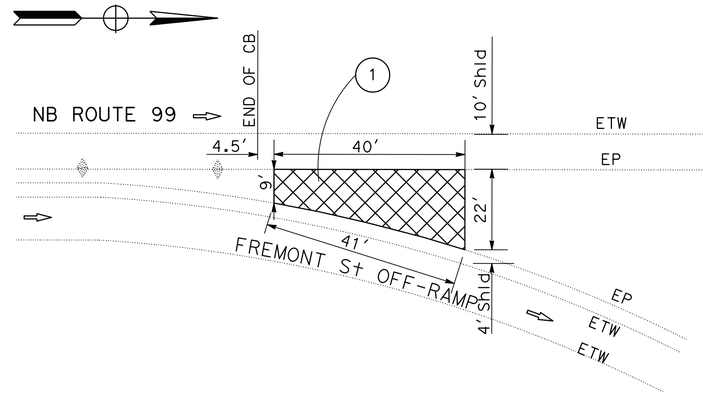


(1) SB SR 99 FROM KETTLEMAN LANE ON-RAMP

(2) SB SR 99 FROM KETTLEMAN LANE OFF-RAMP

LOCATION 7

PM 29.3



(1) NB SR 99 TO FREMONT St OFF-RAMP

LOCATION 3

PM 19.1

MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	G.E.	G.E.
DATE REVISED	02-17-16	03-19-16
CALCULATED-DESIGNED BY	GABE ELEFANTE	
CHECKED BY	RICHARD BOYER	
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 02-17-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

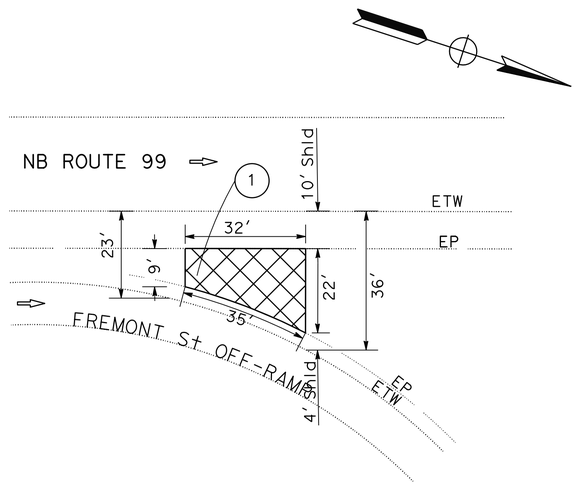
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	11	62

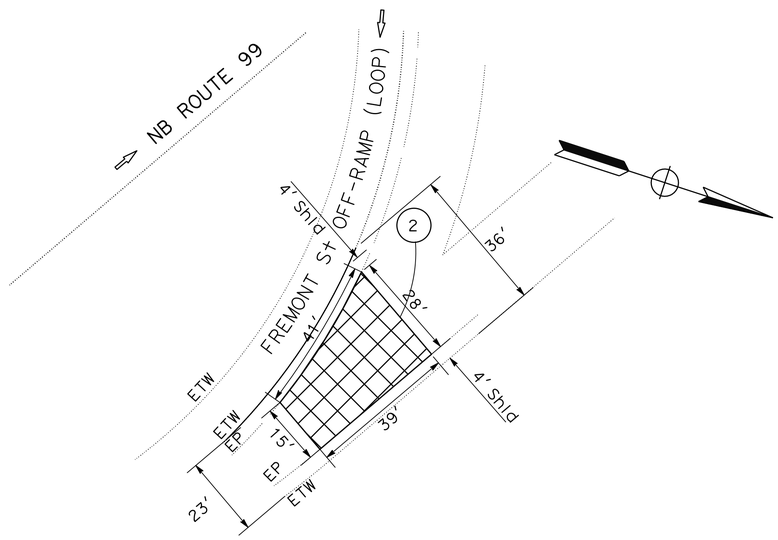
Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

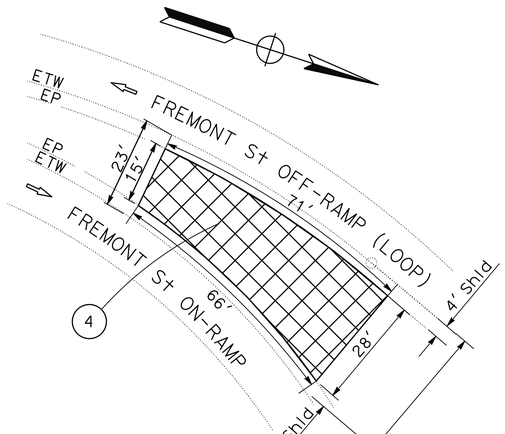
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

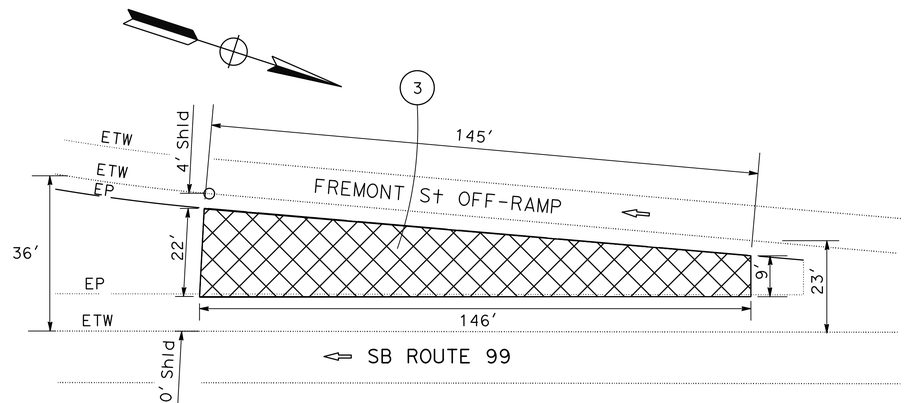
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.







SB ROUTE 99



1. NB 99 TO FREMONT St OFF-RAMP
2. NB 99 TO FREMONT St OFF-RAMP (LOOP)
3. SB 99 TO FREMONT St OFF-RAMP
4. SB 99 TO FREMONT St OFF-RAMP (LOOP)

LOCATION 4
PM 19.25

MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS

NO SCALE **C-2**

REVISED BY	G.E.	G.E.	G.E.
DATE REVISED	02-18-16	02-18-16	03-18-16

CALCULATED-DESIGNED BY
CHECKED BY
RICHARD BOYER

FUNCTIONAL SUPERVISOR
NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 02-18-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000080ga002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

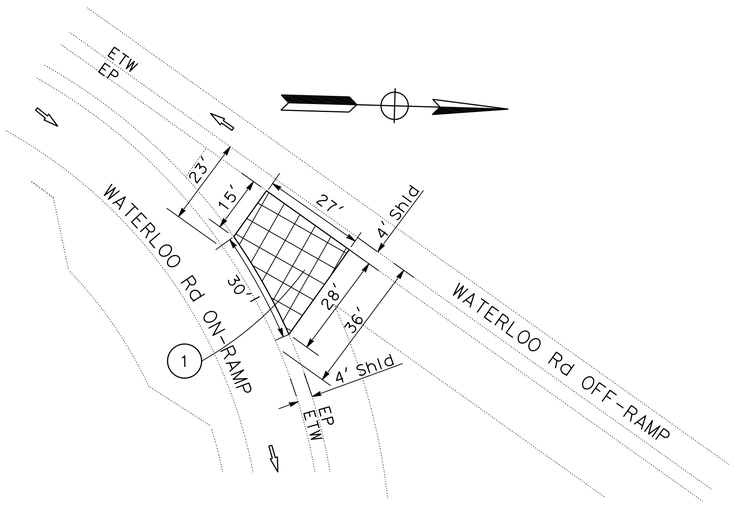
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	12	62

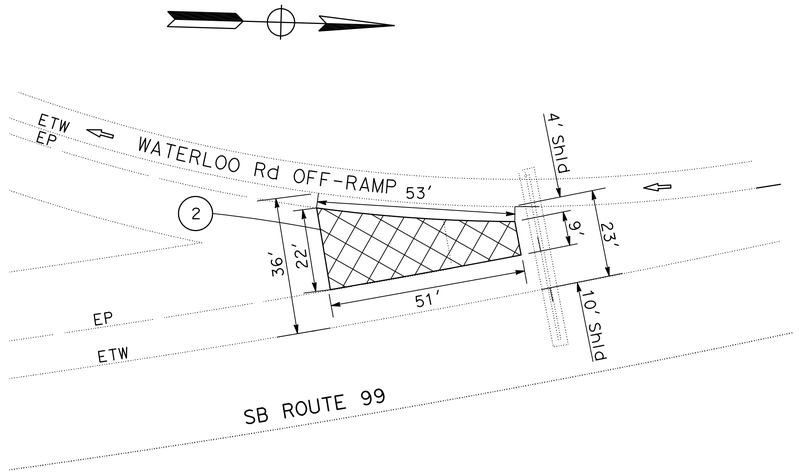
Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

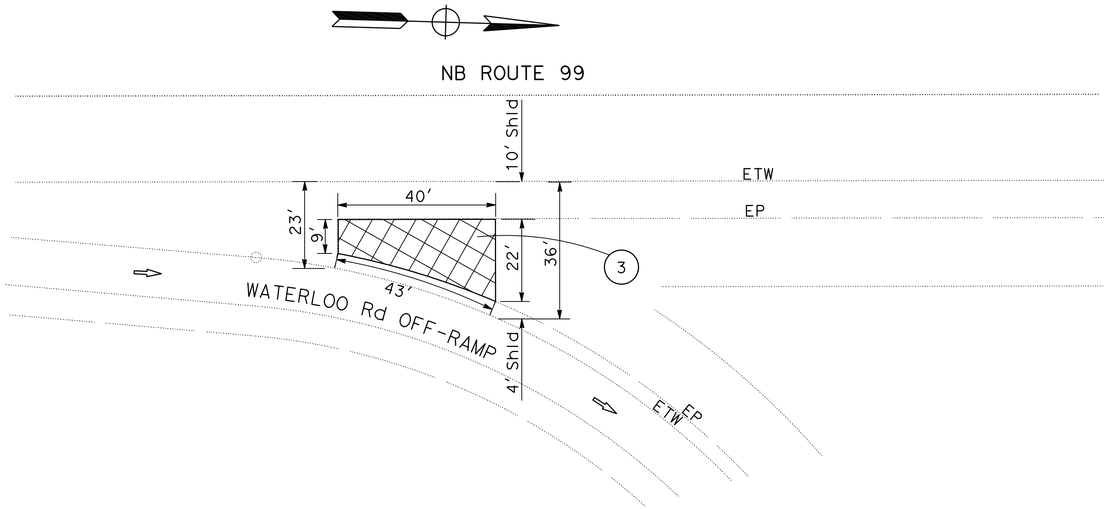
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

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







1. SB 99 TO WATERLOO Rd OFF-RAMP (LOOP)
2. SB 99 TO WATERLOO Rd OFF-RAMP
3. NB 99 TO WATERLOO Rd OFF-RAMP

LOCATION 5
PM 20.3

MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS

NO SCALE **C-3**

CALCULATED-DESIGNED BY	HELEN LAM	G.E. 03-18-16
CHECKED BY	RICHARD BOYER	G.E. 02-18-16
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ	REVISED BY / DATE REVISED
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	

LAST REVISION 02-18-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

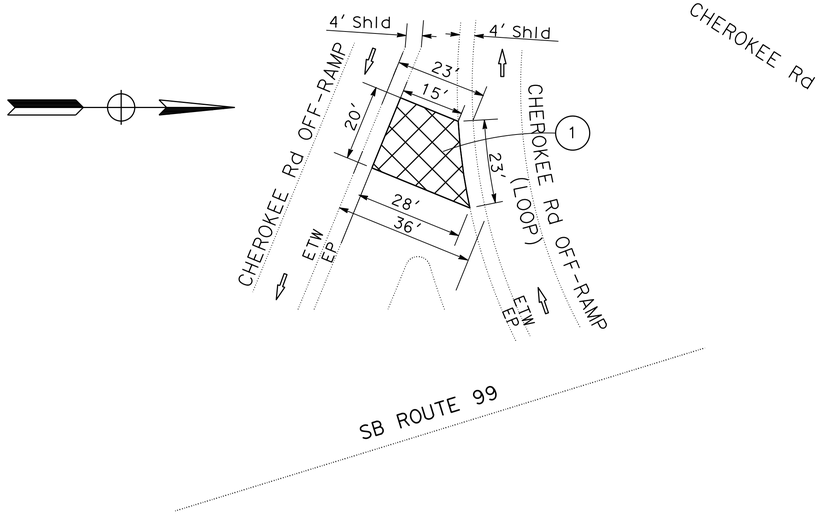
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	13	62

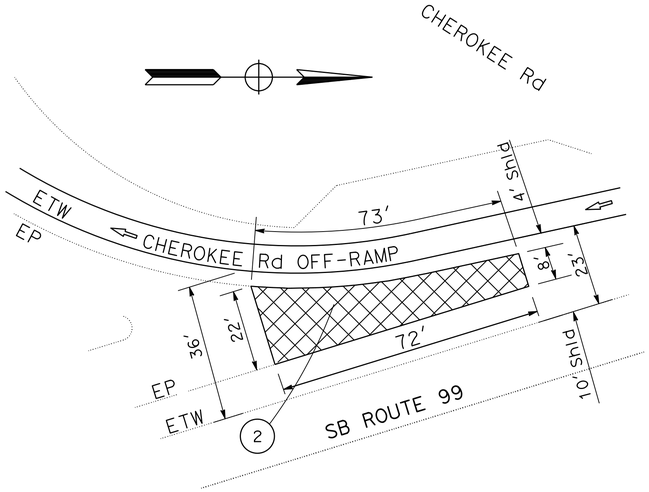
Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

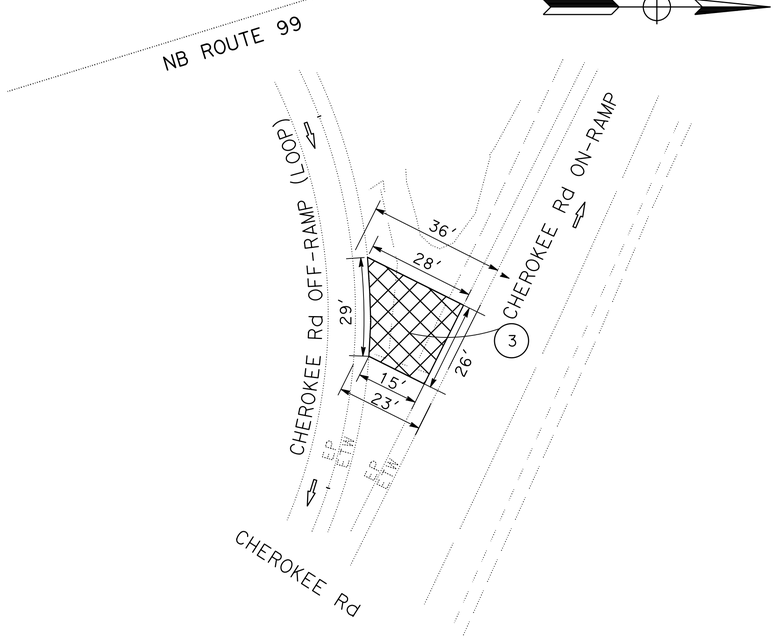
4-4-16
PLANS APPROVAL DATE

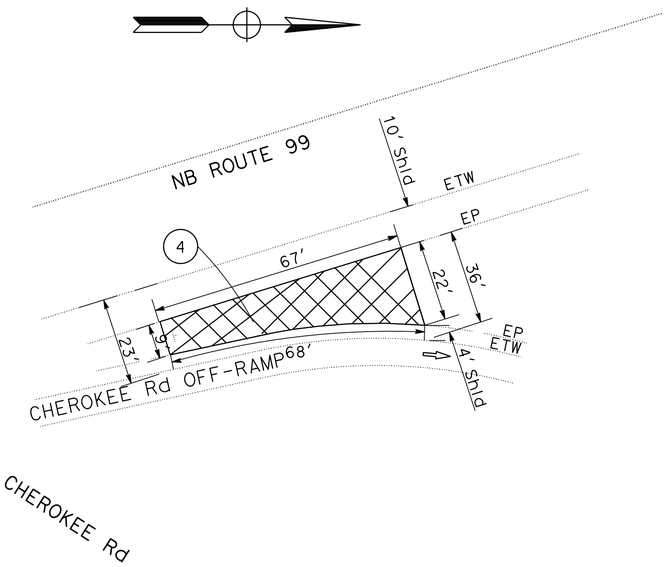
REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

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









1. SB 99 TO CHEROKEE Rd OFF-RAMP (LOOP)
2. SB 99 TO CHEROKEE Rd OFF-RAMP
3. NB 99 TO CHEROKEE Rd OFF-RAMP (LOOP)
4. NB 99 TO CHEROKEE Rd OFF-RAMP

LOCATION 6
PM 20.8

MINOR CONCRETE (TEXTURED PAVING)

CONSTRUCTION DETAILS
NO SCALE

C-4

G.E.	03-18-16		
G.E.	02-18-16	REVISED BY	HELEN LAM
		DATE REVISED	RICHARD BOYER
CALCULATED-DESIGNED BY		FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ
CHECKED BY		STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN

Caltrans®

LAST REVISION 02-18-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

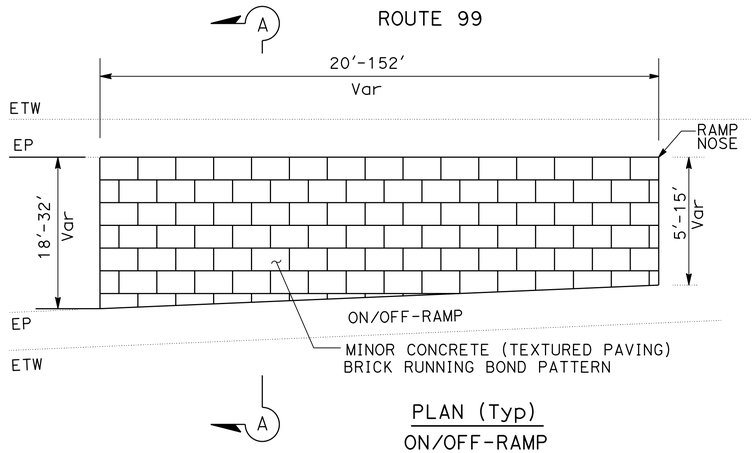
BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	14	62

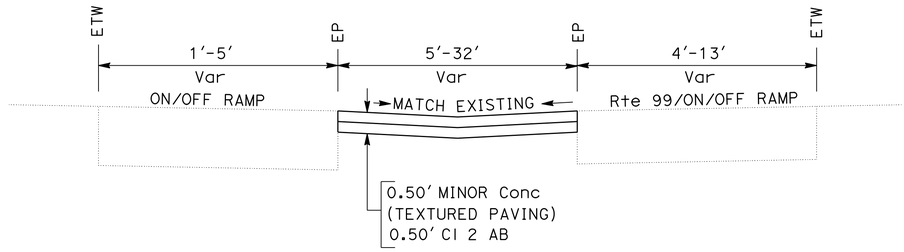
Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

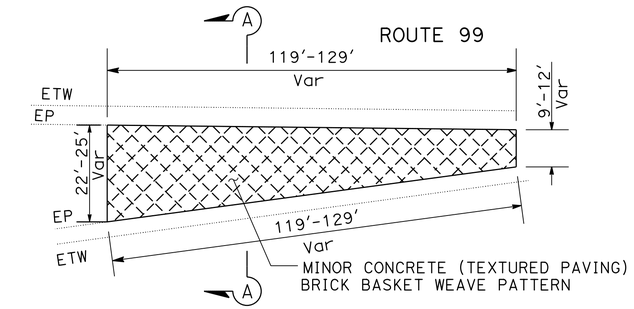
REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA



PLAN (Typ)
ON/OFF-RAMP



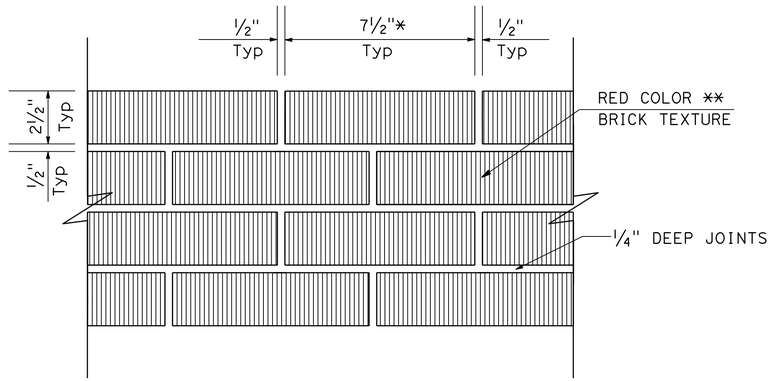
SECTION A-A



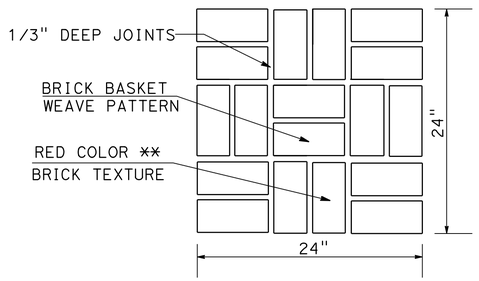
PLAN

ON/OFF-RAMP
Loc 7 -KETTLEMAN LANE, PM 29.3

Loc 1 - NB 99 TO FREMONT St OFF-RAMP, PM 18.5
Loc 2 - WB 04 TO NB 99 ON-RAMP, PM 18.8
Loc 3 - NB 99 TO FREMONT St OFF-RAMP, PM 19.1
Loc 4 - FREMONT St, PM 19.25
Loc 5 - WATERLOO Rd, PM 20.3
Loc 6 - CHEROKEE Rd, PM 20.8



BRICK RUNNING BOND PATTERN DETAIL



BRICK BASKET WEAVE PATTERN DETAIL

MINOR CONCRETE (TEXTURED PAVING)

** COLOR HARDENER TO INCLUDE TERRA COTTA COLOR HARDENER (CLOSE TO FEDERAL STANDARD 595C COLOR 30117) AND BRICK RED RELEASE AGENT (CLOSE TO FEDERAL STANDARD 595C COLOR 30166).

CONSTRUCTION DETAILS

NO SCALE **C-5**

G.E.	03-18-16	
G.E.	02-18-16	
REVISED BY	DATE REVISED	
HELEN LAM	RICHARD BOYER	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	

LAST REVISION 02-18-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

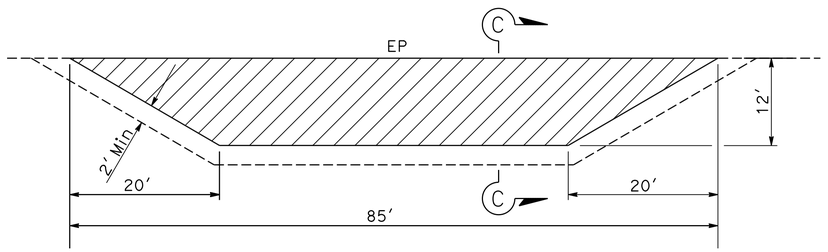
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	15	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

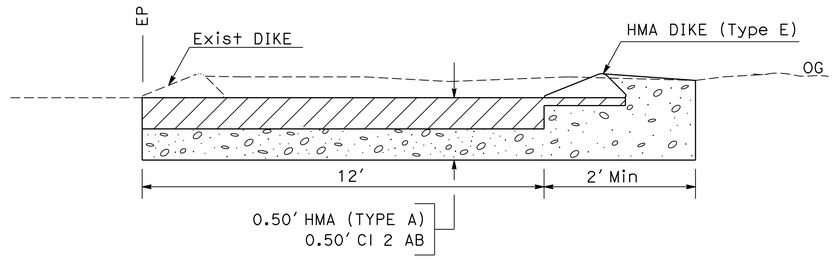
4-4-16
PLANS APPROVAL DATE

RICHARD J. BOYER No. 75844 Exp. 6/30/16 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.

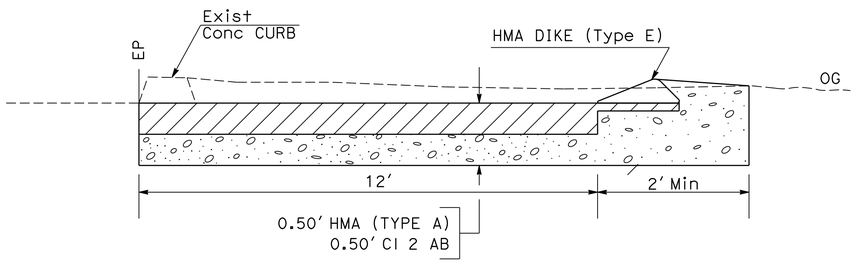


PLAN (Typ)



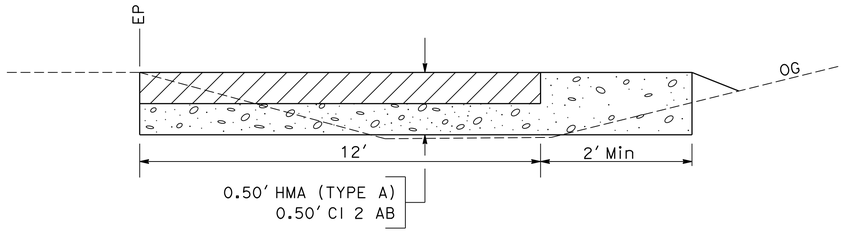
SECTION C-C

Loc 13, SB 99 TO ACAMPO Rd OFF RAMP



SECTION C-C

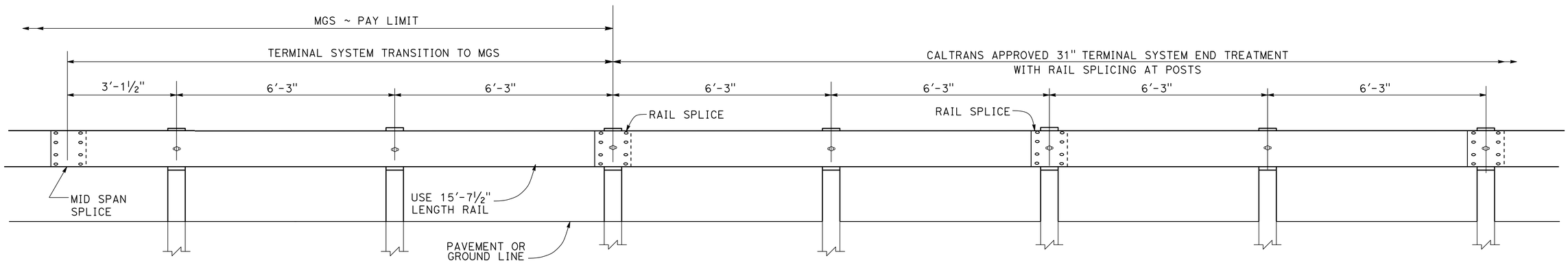
Loc 13, SB 99 FROM ACAMPO Rd ON-RAMP
Loc 7, NB 99 FROM KETTLEMAN LANE ON-RAMP



SECTION C-C

Loc 7, NB 99 TO KETTLEMAN LANE OFF-RAMP
Loc 7, SB 99 FROM KETTLEMAN LANE ON-RAMP
Loc 12, NB 99 AT WOODBRIDGE ROAD

MAINTENANCE VEHICLE PULLOUT



TRANSITION DETAIL FOR 31" TERMINAL SYSTEM END TREATMENT WITH RAIL SPLICING AT POST TO MIDWEST GUARDRAIL SYSTEM

CONSTRUCTION DETAILS

NO SCALE

C-6

	REVISED BY	DATE REVISED
G.E.		03-18-16
G.E.		02-18-16

CALCULATED-DESIGNED BY: HELEN LAM
CHECKED BY: RICHARD BOYER
FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 02-18-16 | DATE PLOTTED => 25-JUL-2016 | TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 11013000083ga006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1454 | PROJECT NUMBER & PHASE 10130000831

NOTES:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	16	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 06-30-16
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.

LOCATION 8

REMOVE IRRIGATION FACILITY LOCATIONS

LOCATION No.	LOCATION		REMOVE SPRINKLER	IRRIGATION CONDUIT	REMARKS
	LINE	STATION			
8	NB 99	PM 30.5 LODI AVENUE	X	X	REROUTE MAINLINE AS NECESSARY
10	NB 99	PM 31.0 E. VICTOR ROAD		X	REROUTE MAINLINE AS NECESSARY
11	NB 99	PM 31.0 E. LOCKFORD ROAD	X	X	REROUTE MAINLINE AS NECESSARY
8	SB 99	PM 30.5 LODI AVENUE	X		CAP BEYOND SLOPE PAVING
10	SB 99	PM 31.0 E. VICTOR ROAD	X		CAP BEYOND SLOPE PAVING
11	SB 99	PM 31.0 E. LOCKFORD ROADd	X		CAP BEYOND SLOPE PAVING

CONSTRUCTION DETAILS

SCALE: 1"=20'

C-7

REVISED BY	DATE REVISED
R.E	2/29/16
R.E	03/21/16

OSAMA ABDELMAJIED — CALCULATED-DESIGNED BY
RICHARD BOYER — CHECKED BY
FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 2-29-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	17	62

Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 06-30-16
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:

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

LOCATION 9

CONSTRUCTION DETAILS

SCALE: 1"=20'

C-8

R.E	03/21/16	
R.E	2/29/16	
REVISED BY	DATE REVISED	
ROLI ELSOTARI		
RICHARD BOYER		
CALCULATED-DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR		
NOMER GUTIERREZ		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION		
Caltrans® DESIGN		

LAST REVISION 2-29-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	18	62

Richard J Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

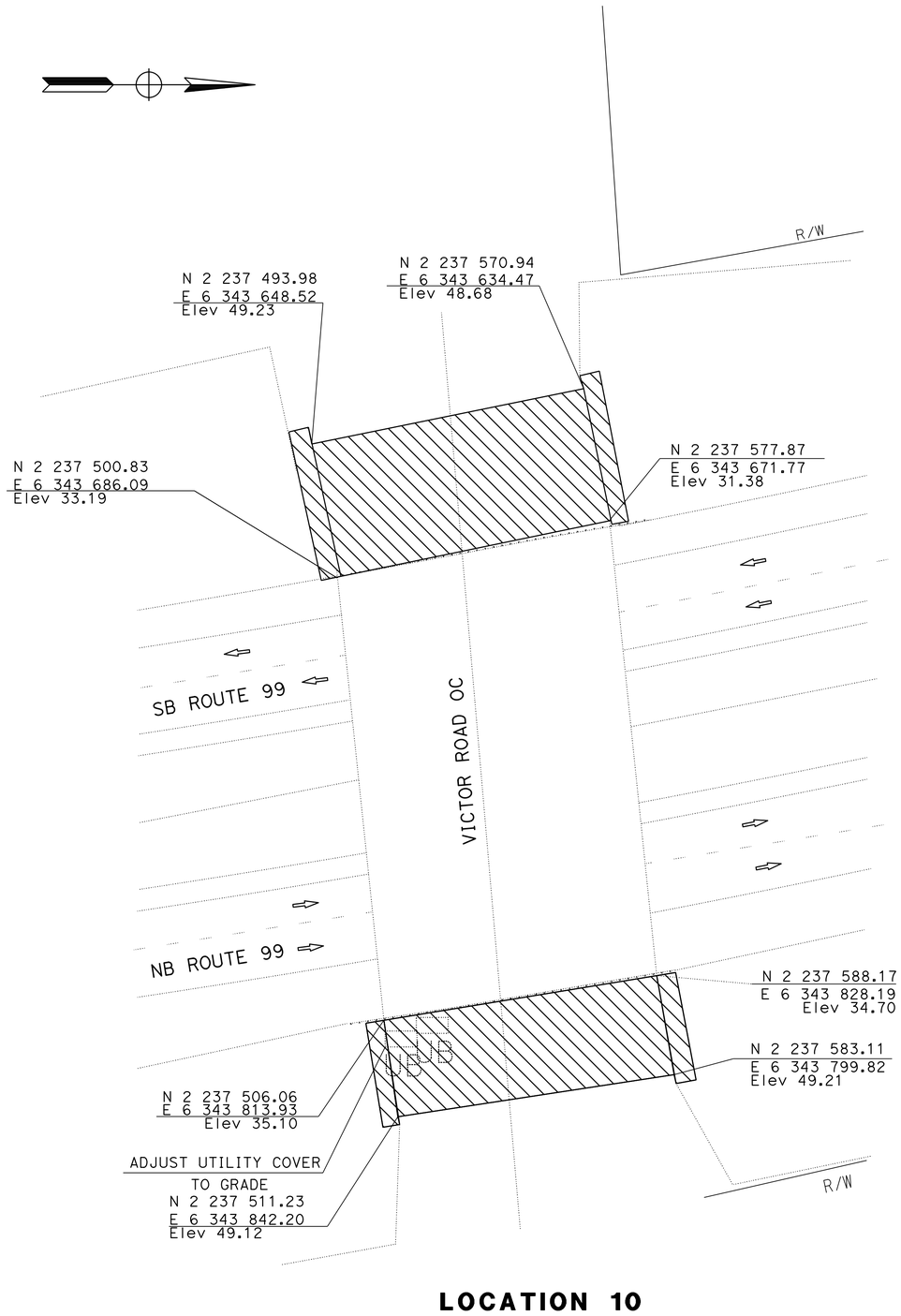
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 06-30-16
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:

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



LOCATION 10

CONSTRUCTION DETAILS

SCALE: 1"=20'

C-9

REVISED BY	DATE REVISED
R.E	2/29/16
R.E	03/21/16

CALCULATED-DESIGNED BY
CHECKED BY

ROLI ELSOTARI
RICHARD BOYER

FUNCTIONAL SUPERVISOR
NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 2-29-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	19	62

R. Richard J. Boyer 3/9/16
REGISTERED CIVIL ENGINEER DATE

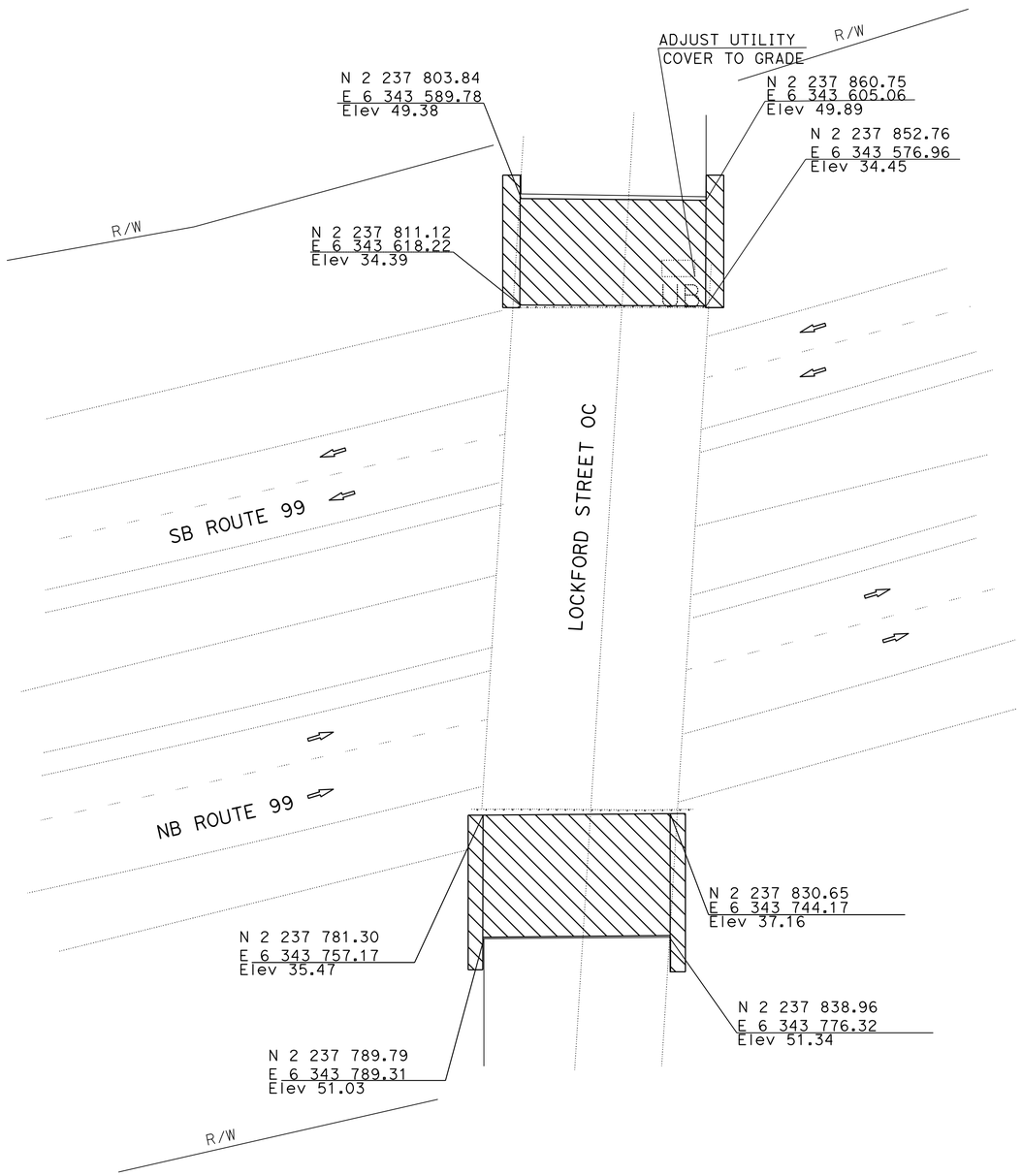
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 06-30-16
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:

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



LOCATION 11

CONSTRUCTION DETAILS

SCALE: 1"=20'

C-10

R.E	03/21/16	
R.E	2/29/16	
REVISED BY	DATE REVISED	
ROLI ELSOTARI		
RICHARD BOYER		
CALCULATED-DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 2-29-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga0010
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	20	62

Richard J. Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

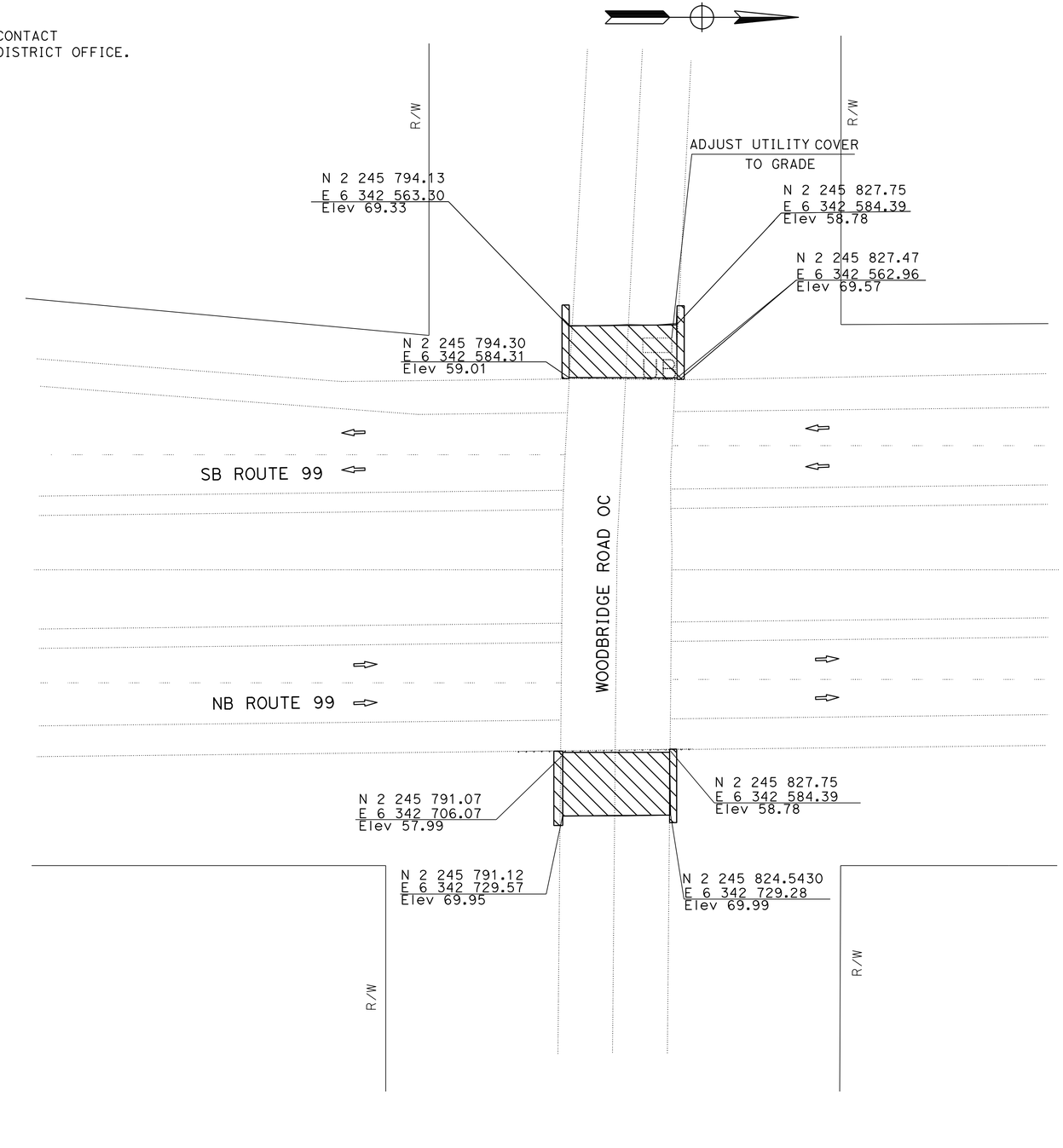
4-4-16
PLANS APPROVAL DATE

RICHARD J. BOYER No. 75844 Exp. 06-30-16 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:

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



LOCATION 12

CONSTRUCTION DETAILS

SCALE: 1"=20'

C-11

	REVISED BY	DATE REVISED
R.E		03/21/16
R.E		2/29/16

CALCULATED-DESIGNED BY: ROLI ELSOTARI
CHECKED BY: RICHARD BOYER

FUNCTIONAL SUPERVISOR: NOMER GUTIERREZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 2-29-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga0011.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	21	62

Richard J Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

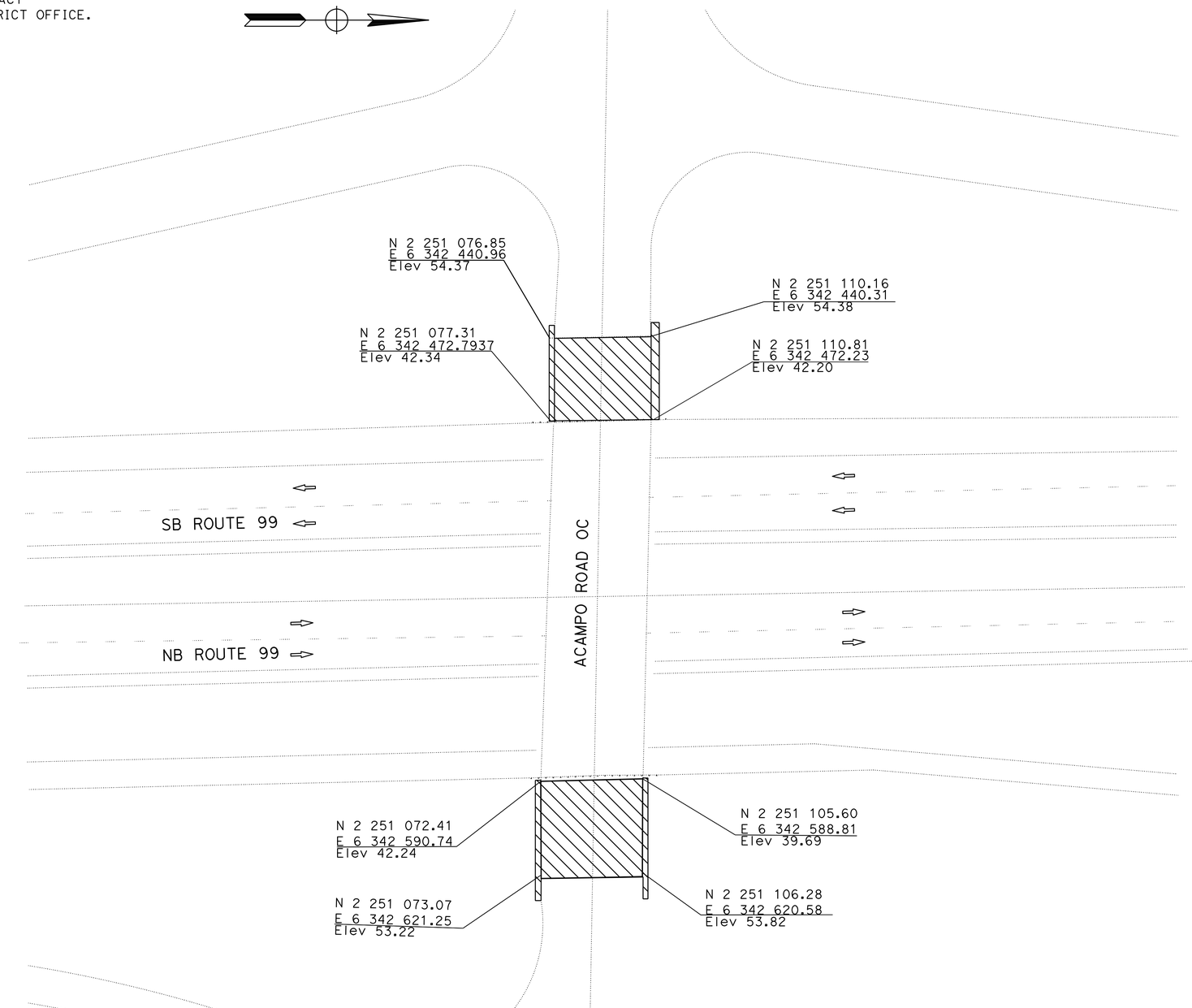
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 06-30-16
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:

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



LOCATION 13

CONSTRUCTION DETAILS

SCALE: 1"=20'

C-12

CALCULATED-DESIGNED BY	R.E	03/21/16
CHECKED BY	R.E	2/29/16
	REVISED BY	DATE REVISED
ROLI ELSOTARI		
RICHARD BOYER		
FUNCTIONAL SUPERVISOR		
NOMER GUTIERREZ		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

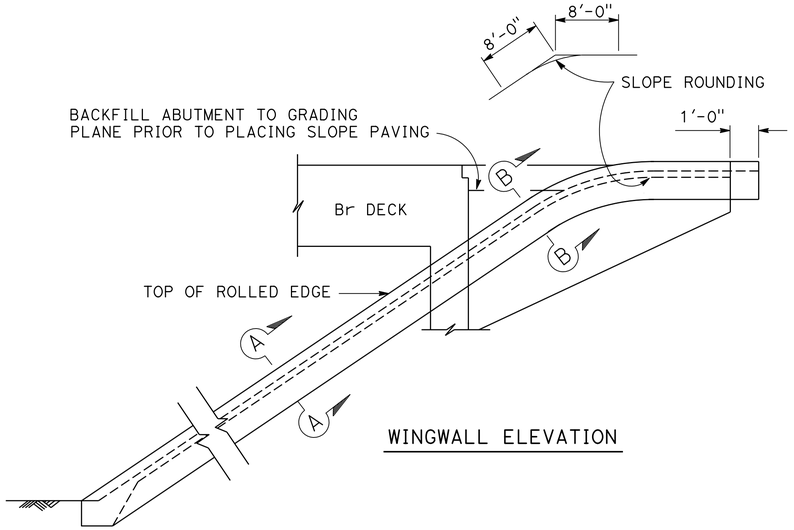
LAST REVISION 2-29-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	22	62

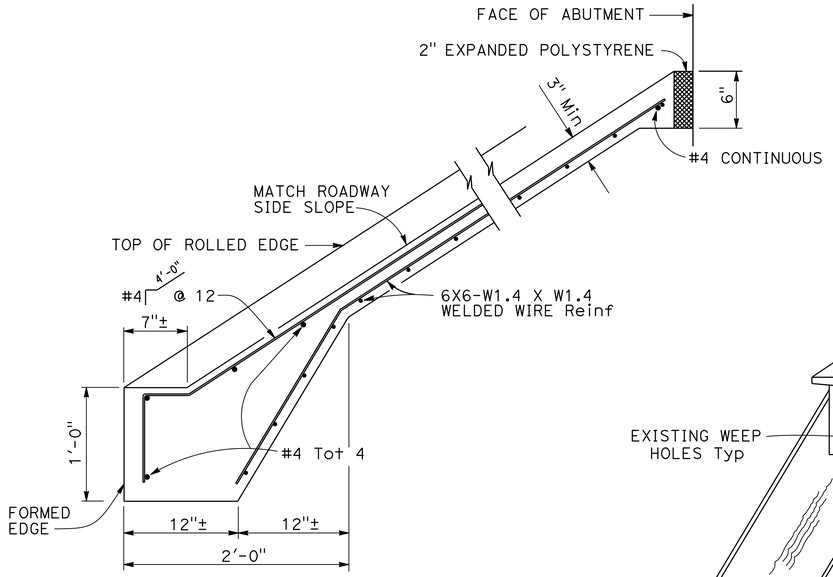
Richard J. Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

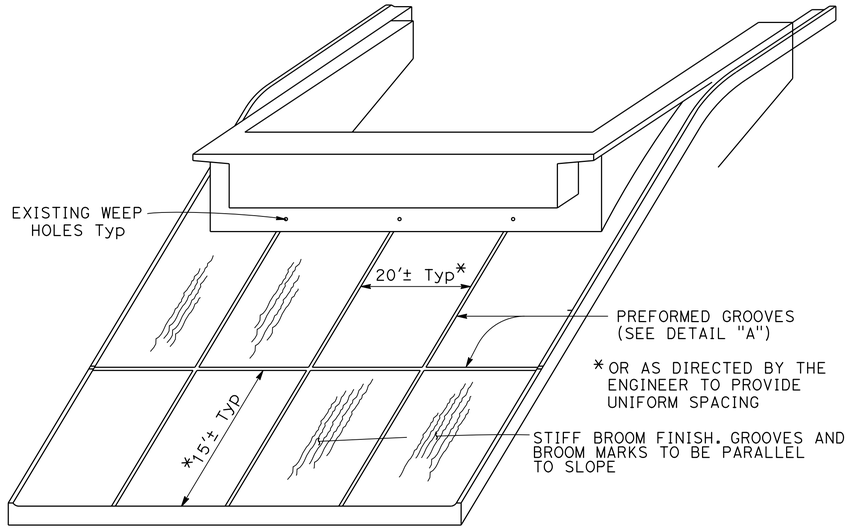
REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp.6/30/16
CIVIL
STATE OF CALIFORNIA



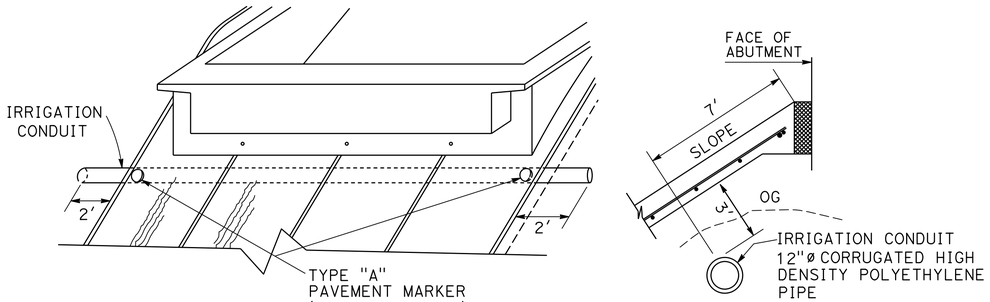
WINGWALL ELEVATION



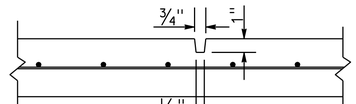
TYPICAL SECTION



PICTORIAL VIEW OF TYPICAL INSTALLATION

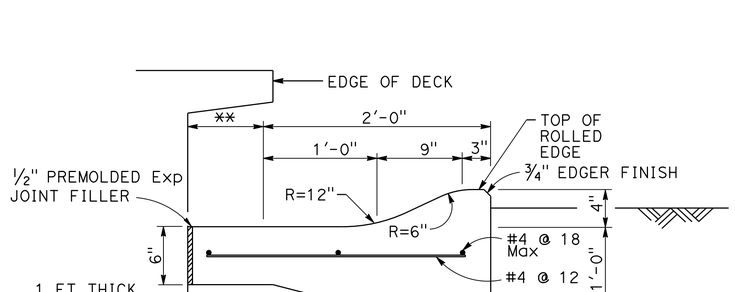


IRRIGATION CONDUIT DETAILS

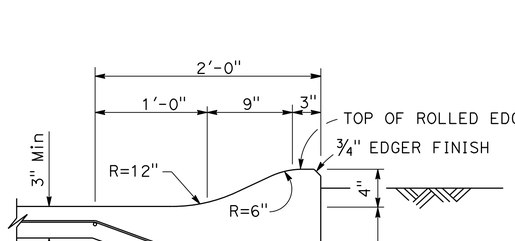


PREFORM GROOVE

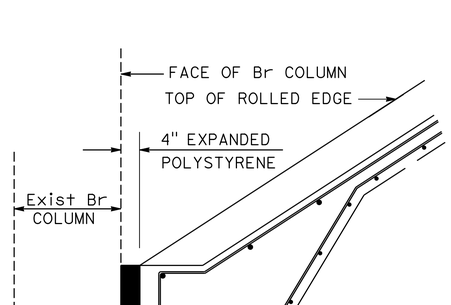
DETAIL "A"



SECTION B-B



SECTION A-A



SLOPE PAVING AT COLUMN

**THIS DIMENSION BECOMES ZERO WHEN EDGE OF DECK IS AT OUTSIDE FACE OF WW

CONCRETE SLOPE PAVING

CONSTRUCTION DETAILS

NO SCALE **C-13**

CALCULATED-DESIGNED BY	G.E.	03-22-16
CHECKED BY	G.E.	02-18-16
	REVISED BY	DATE REVISED
GABE ELEFANTE		
RICHARD BOYER		
FUNCTIONAL SUPERVISOR		
NOMER GUTIERREZ		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION 02-18-16 | DATE PLOTTED => 25-JUL-2016 | TIME PLOTTED => 15:44

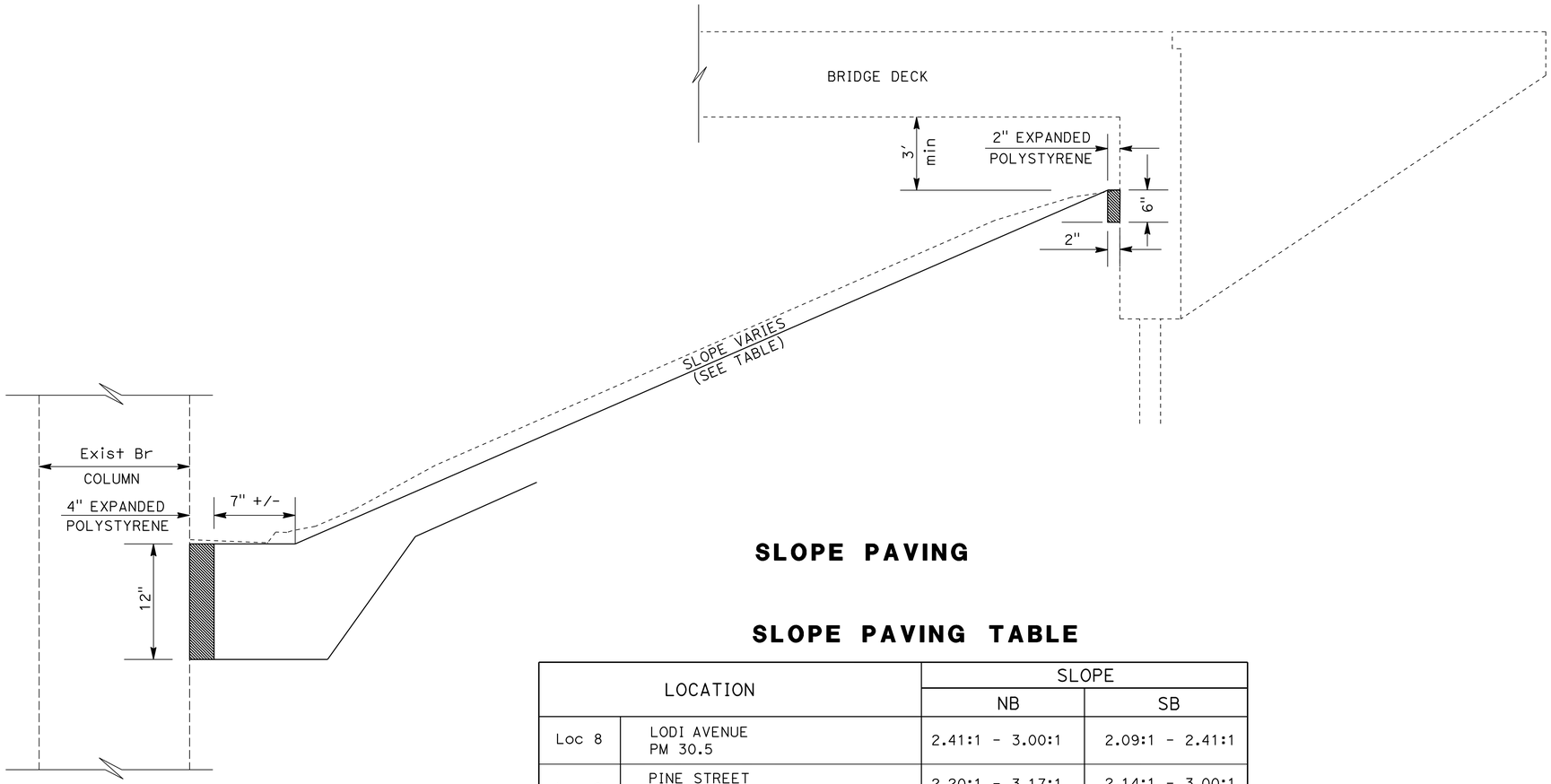
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	23	62

Richard J. Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 6/30/16
CIVIL
STATE OF CALIFORNIA

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



SLOPE PAVING

SLOPE PAVING TABLE

LOCATION		SLOPE	
		NB	SB
Loc 8	LODI AVENUE PM 30.5	2.41:1 - 3.00:1	2.09:1 - 2.41:1
Loc 9	PINE STREET PM 30.75	2.20:1 - 3.17:1	2.14:1 - 3.00:1
Loc 10	E. VICTOR ROAD PM 31.00	2.39:1 - 3.00:1	2.00:1 - 3.19:1
Loc 11	E. LOCKFORD STREET PM 31.00	2.13:1 - 2.71:1	2.00:1 - 2.00:1
Loc 12	WOODBRIDGE ROAD PM 32.50	2.00:1 - 2.13:1	2.00:1 - 2.13:1
Loc 13	ACAMPO ROAD PM 33.70	2.24:1 - 2.77:1	2.60:1 - 2.74:1

CONSTRUCTION DETAILS
NO SCALE **C-14**

CALCULATED-DESIGNED BY		R.E.	3/22/16
CHECKED BY		R.E.	3/21/16
GABE ELEFANTE		REVISED BY	DATE REVISED
RICHARD BOYER			
FUNCTIONAL SUPERVISOR			
NOMER GUTIERREZ			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
DESIGN			

LAST REVISION 2-8-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	24	62

Richard J Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 06-30-16
CIVIL
STATE OF CALIFORNIA

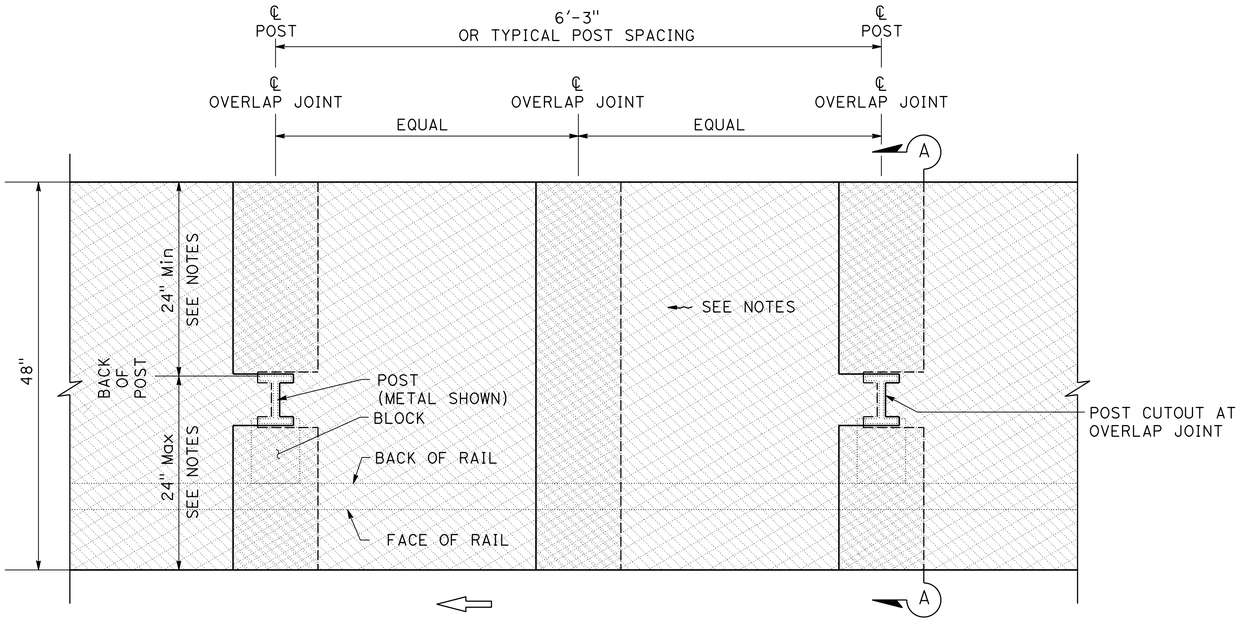
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES (SHEET C-15 AND C-16 ONLY):

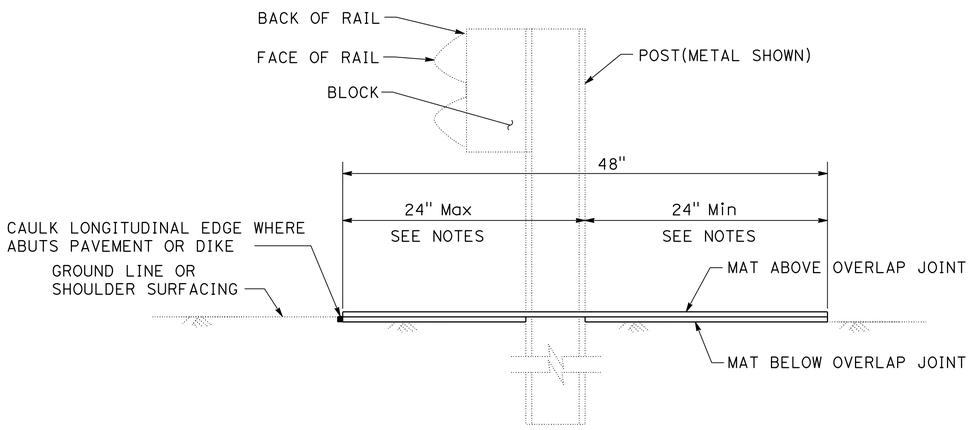
1. RUBBER MAT MUST BE 48" WIDE INDIVIDUAL MATS OR 48" WIDE CONTINUOUS ROLL PRODUCT. INDIVIDUAL MATS ARE SHOWN.
2. EDGES OF MAT TO ABUT EDGES OF POST.
3. WHERE EDGE OF PAVED SHOULDER IS MORE THAN 24" FROM BACK OF POST, EDGE OF RUBBER MAT MUST BE 24" FROM BACK OF POST. WHERE PAVED SHOULDER IS CONSTRUCTED 24" OR LESS FROM BACK OF POST, ABUT EDGE OF RUBBER MAT AGAINST EDGE OF PAVED SHOULDER. WHERE DIKE IS CONSTRUCTED UNDER RAILING, ABUT EDGE OF RUBBER MAT AGAINST BACK OF DIKE.
4. LAP RUBBER MAT IN DIRECTION OF WATER FLOW.
5. FOR CONTINUOUS ROLL PRODUCT LOCATE OVERLAP JOINT AT OR BETWEEN POSTS AS SHOWN.
6. RUBBER MAT UNDER MIDWEST GUARDRAIL SYSTEM FOR ADDITIONAL POST CUTOUT AND OVERLAP JOINT DETAILS.
7. CONTINUE ALIGNMENT OF MAT EDGE AT OFFSET FROM BACK OF POST.

LEGEND (SHEET C-15 AND C-16 ONLY)

RUBBER MAT



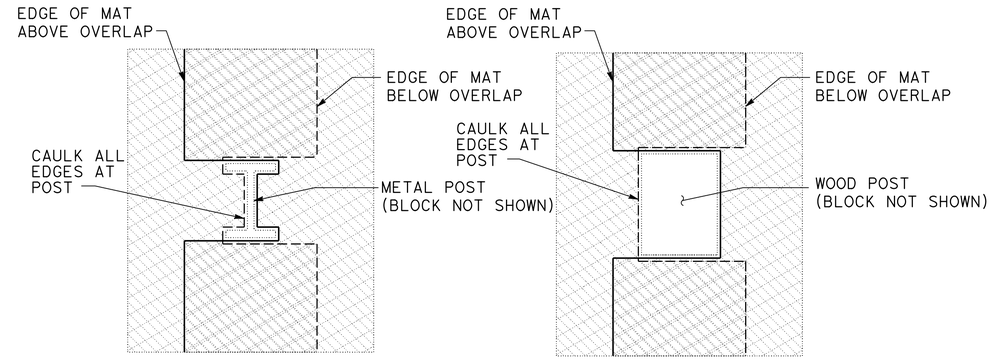
PLAN



SECTION A-A

RUBBER MAT UNDER MIDWEST GUARDRAIL SYSTEM

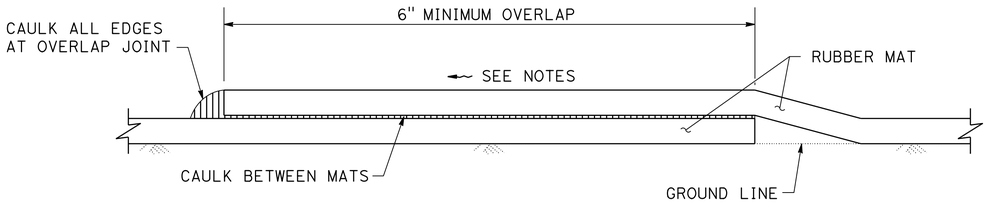
SEE NOTES



METAL POST WOOD POST

PLAN

POST CUT OUT AT OVERLAP



SECTION
OVERLAP JOINT

CONSTRUCTION DETAILS

NO SCALE **C-15**

G.E.	03/24/16	GABE ELEFANTE	CALCULATED-DESIGNED BY	FUNCTIONAL SUPERVISOR
G.E.	2/09/16	RICHARD BOYER	CHECKED BY	NOMER GUTIERREZ
REVISED BY	DATE REVISED			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 03-09-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 DGN FILE => 10130000ga0015.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1454 | PROJECT NUMBER & PHASE 10130000831

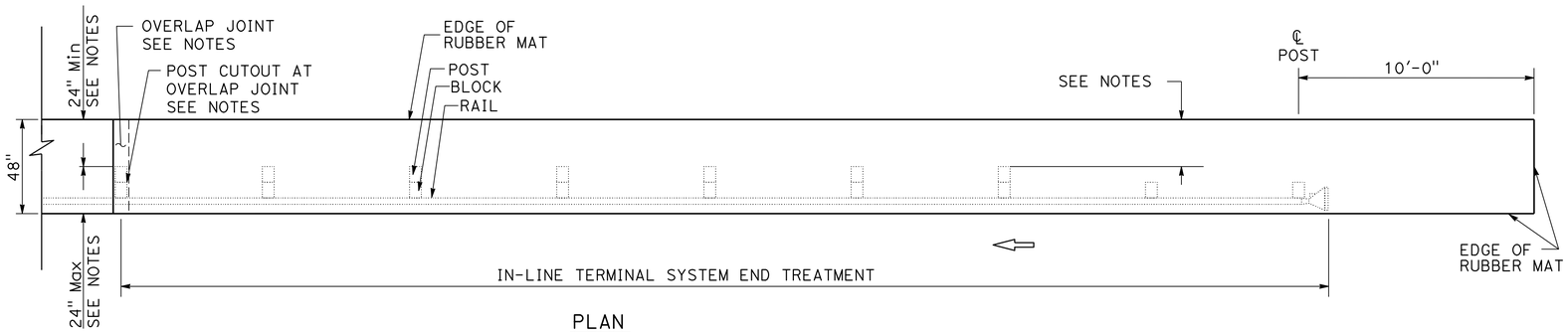
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	25	62

Richard J. Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

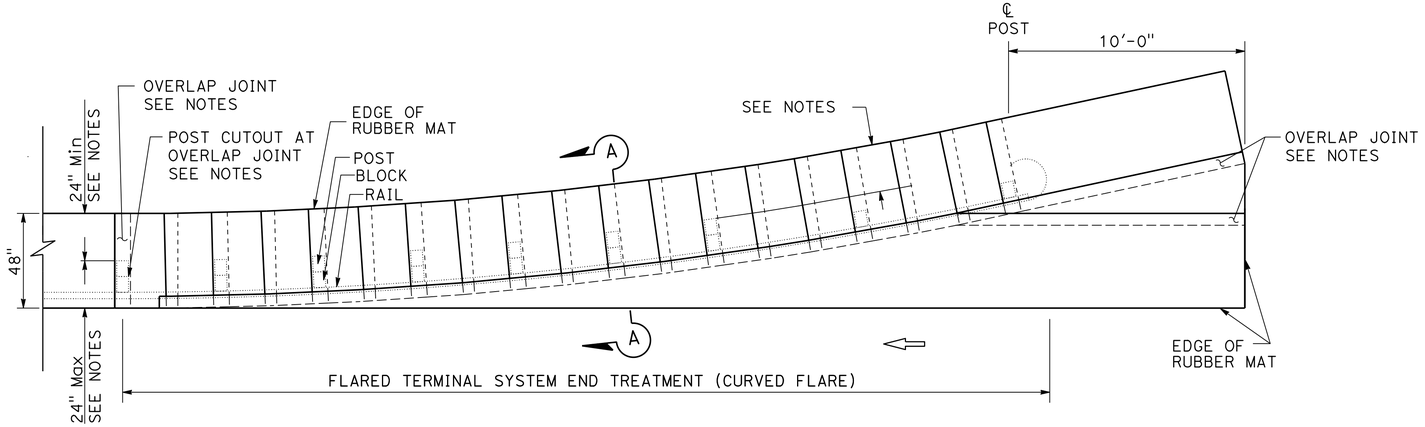
4-4-16
PLANS APPROVAL DATE

RICHARD J. BOYER No. 75844 Exp 06-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

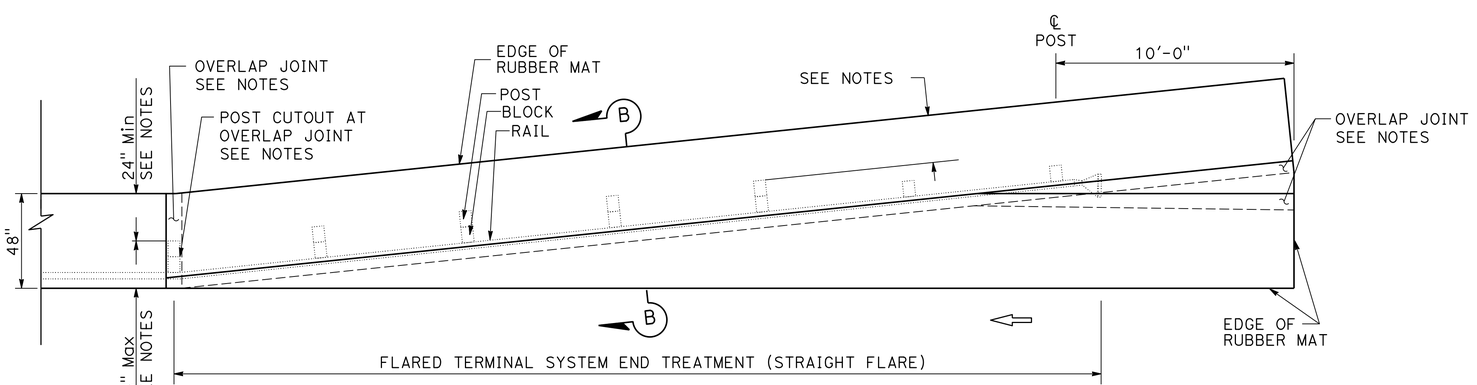
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



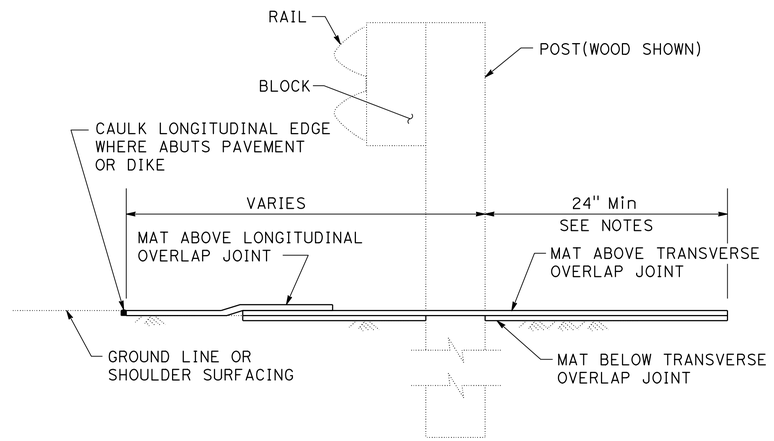
PLAN



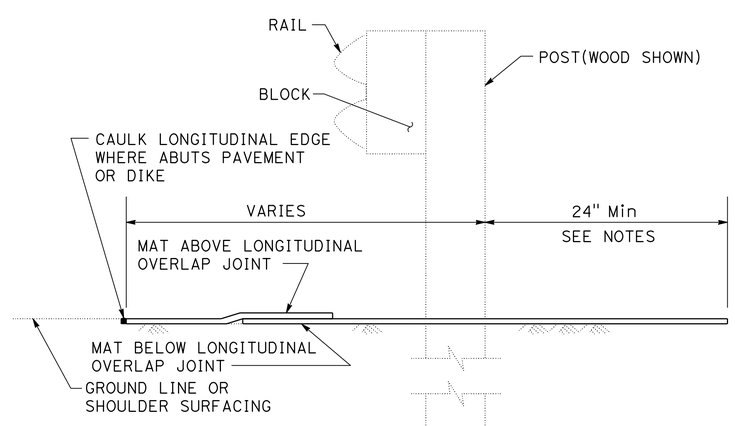
PLAN



PLAN



SECTION A-A



SECTION B-B

RUBBER MAT UNDER TERMINAL SYSTEM END TREATMENTS

SEE NOTES

CONSTRUCTION DETAILS

NO SCALE **C-16**

	CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
G.E.	GABE ELEFANTE	RICHARD BOYER	NOMER GUTIERREZ
03/24/16			
G.E.			
3/09/15			
REVISED BY			
DATE REVISED			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 03-09-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

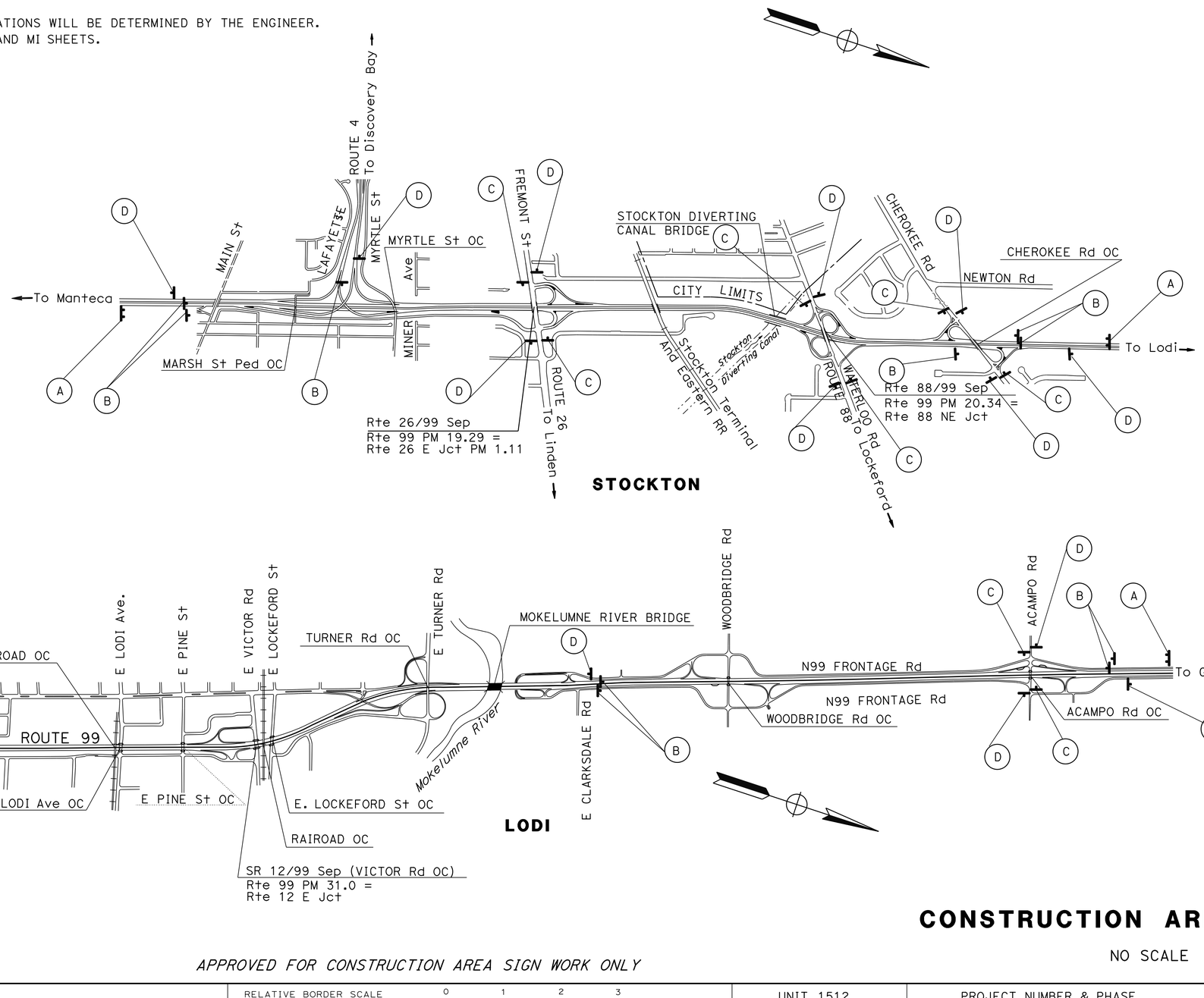
BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083ga0016.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE		PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL	CALIFORNIA				
Ⓐ		CPFIS	90" x 60"	2 - 6" X 6"	4	CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS
Ⓑ	W20-1		48" x 48"	1 - 6" X 6"	12	ROAD WORK AHEAD
Ⓒ	W20-1		36" X 36"	1 - 4" X 6"	11	ROAD WORK AHEAD
Ⓓ	G20-2		36" x 18"	1 - 4" X 4"	17	END ROAD WORK

NOTES:

1. SIGN LOCATIONS SHOWN ARE APPROXIMATE, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE TH AND MI SHEETS.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 20.3/33.7	26	62

REGISTERED CIVIL ENGINEER — DATE 3/10/16

PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER — HUE NGUYEN No. 74484 Exp 12/31/17 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.

REVISED BY	DATE REVISED
I A	02-25-16

CALCULATED-DESIGNED BY: FERNANDO LOPEZ
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION: DATE PLOTTED => 25-JUL-2016
02-12-16 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 10130000831a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	27	62

3/10/16
REGISTERED CIVIL ENGINEER DATE

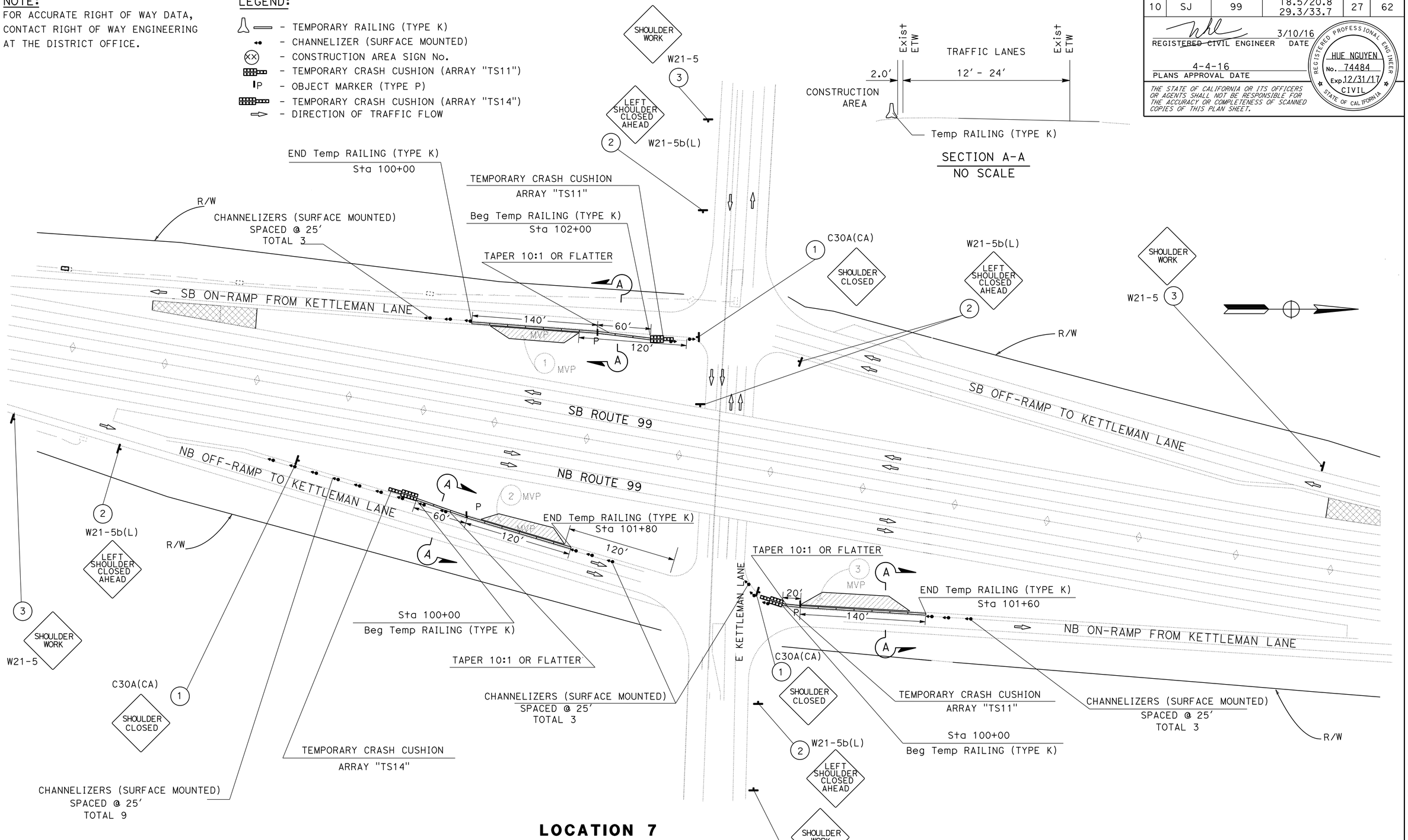
4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HUE NGUYEN No. 74484 Exp.12/31/17 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.

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

LEGEND:
- TEMPORARY RAILING (TYPE K)
- CHANNELIZER (SURFACE MOUNTED)
- XX CONSTRUCTION AREA SIGN No.
- TEMPORARY CRASH CUSHION (ARRAY "TS11")
- P OBJECT MARKER (TYPE P)
- TEMPORARY CRASH CUSHION (ARRAY "TS14")
- DIRECTION OF TRAFFIC FLOW



SECTION A-A
NO SCALE

LOCATION 7
KETTLEMAN LANE
SCALE: 1" = 50'

TRAFFIC HANDLING PLAN

SCALE AS SHOWN

TH-1

APPROVED FOR TRAFFIC HANDLING WORK ONLY

R T	03-24-16	FERNANDO LOPEZ	CALCULATED-DESIGNED BY
REVISED BY	DATE REVISED	HUE NGUYEN	CHECKED BY
FUNCTIONAL SUPERVISOR		MOHAMMED QATAMI	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **06-TRAFFIC DESIGN**

LAST REVISION 03-25-16 | DATE PLOTTED => 25-JUL-2016 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 1013000083md001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	28	62

REGISTERED CIVIL ENGINEER — 3/10/16 DATE

HUE NGUYEN No. 74484 Exp. 12/31/17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

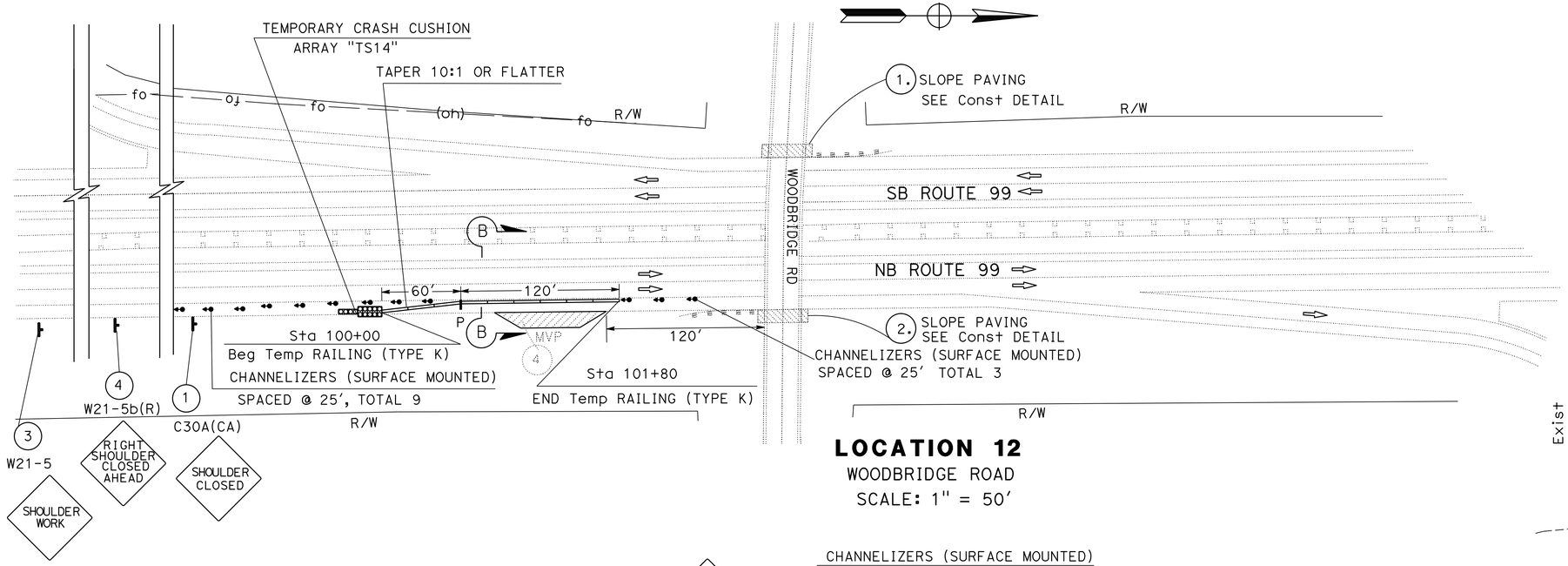
4-4-16
PLANS APPROVAL DATE

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

(THIS SHEET ONLY)

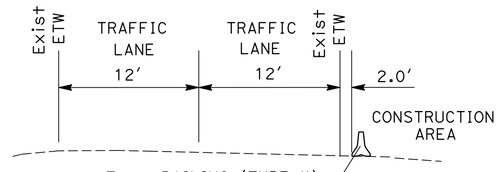
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE>
2. SEE SHEET TH-1 FOR SECTION A-A

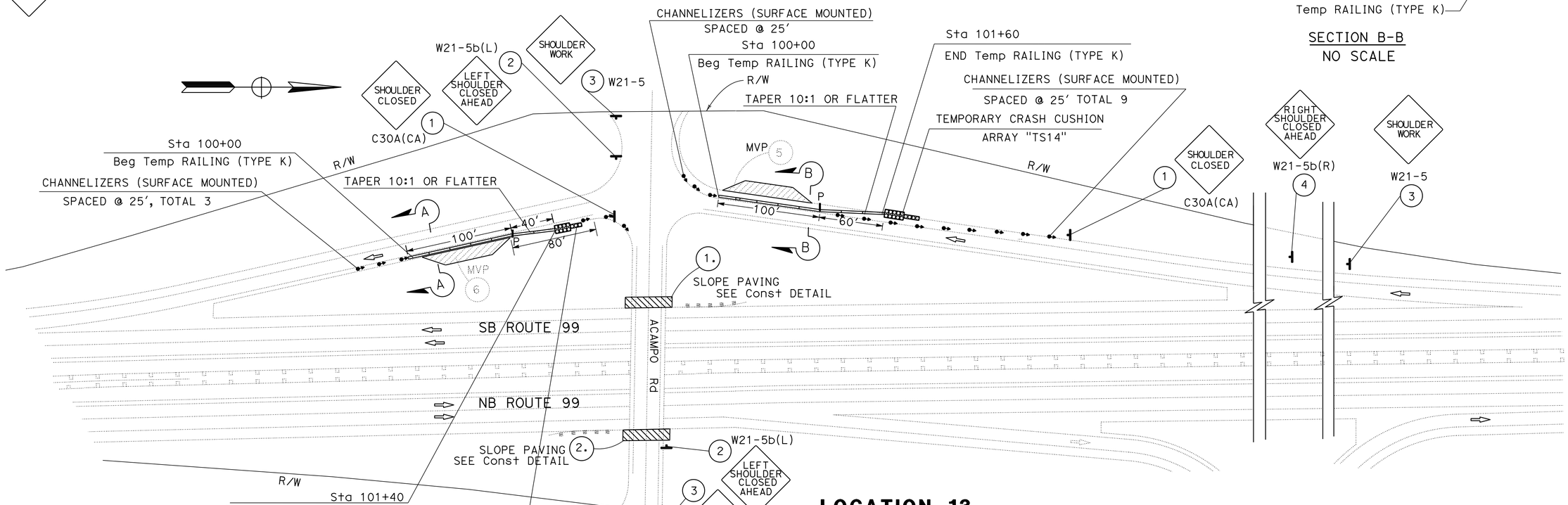


LOCATION 12

WOODBRIDGE ROAD
SCALE: 1" = 50'



SECTION B-B
NO SCALE



LOCATION 13

ACAMPO ROAD
SCALE: 1" = 50'

TRAFFIC HANDLING PLAN

SCALE AS SHOWN

TH-2

APPROVED FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FERNANDO LOPEZ
CHECKED BY: HUE NGUYEN
REVISED BY: R T
DATE REVISED: 03-24-16
LAST REVISION: 03-25-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 1013000083md002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	29	62

3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
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.

NOTE:

SEE CS-1 AND MI-1 SHEETS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No.	SIGN CODE		SIGN MESSAGE	PANEL SIZE	No. POST AND SIZE	No. OF SIGNS
		FEDERAL	CALIFORNIA				
TH-1	①		C30A(CA)	SHOULDER CLOSED	48" x 48"	1 - 6" x 6"	3
	②	W21-5b(L)		LEFT SHOULDER CLOSED AHEAD	48" x 48"	1 - 6" x 6"	5
	③	W21-5		SHOULDER WORK	48" x 48"	1 - 6" x 6"	4
TH-2	①		C30A(CA)	SHOULDER CLOSED	48" x 48"	1 - 6" x 6"	3
	②	W21-5b(L)		LEFT SHOULDER CLOSED AHEAD	48" x 48"	1 - 6" x 6"	2
	③	W21-5		SHOULDER WORK	48" x 48"	1 - 6" x 6"	4
	④	W21-5b(R)		RIGHT SHOULDER CLOSED AHEAD	48" x 48"	1 - 6" x 6"	2

TRAFFIC HANDLING DELINEATION QUANTITIES

SHEET No.	MVP	PM	LOCATION SR 99	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE ARRAY		CHANNELIZER (SURFACE MOUNTED)	OBJECT MARKER TYPE P (N)
					'TS11'	'TS14'		
				LF	EA		EA	EA
TH-1	①	29.3	SB ON-RAMP FROM KETTLEMAN LANE (LEFT SHOULDER)	200	11		5	1
	②	29.3	NB OFF-RAMP TO KETTLEMAN LANE (LEFT SHOULDER)	180		14	12	1
	③	29.3	NB ON-RAMP FROM KETTLEMAN LANE (LEFT SHOULDER)	160	11		6	1
TH-2	④	32.5	NB (RIGHT SHOULDER)	180		14	12	1
	⑤	33.7	SB OFF-RAMP TO ACAMPO RD (RIGHT SHOULDER)	160		14	12	1
	⑥	33.7	SB ON-RAMP FROM ACAMPO RD (LEFT SHOULDER)	140	11		6	1
SUBTOTAL				1,020	33	42	53	
TOTAL				1,020	75		53	

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

TRAFFIC HANDLING QUANTITIES
THQ-1

CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
CHECKED BY	FERNANDO LOPEZ	I A 02-25-16
FUNCTIONAL SUPERVISOR	HUE NGUYEN	
MOHAMMED QATAMI		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 02-25-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083mf001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1512
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	30	62

REGISTERED CIVIL ENGINEER — DATE 3/10/16

PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER — HUE NGUYEN No. 74484 Exp. 12/31/17 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.

NOTES:

1. EXACT CONSTRUCTION AREA SIGN LOCATIONS TO BE DETERMINED BY ENGINEER.
2. WHEN DETOUR IS NOT IN USE, COVER ALL CONFLICTING ROADSIDE SIGNS AND CONSTRUCTION AREA SIGNS (TRAFFIC HANDLING.
3. DURING THE NB ROUTE 99 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (A) SHOULD READ...

1ST FRAME	2ND FRAME
NB RTE 99 CONNECTOR CLOSED	USE SB RTE 99 GOLDEN GATE Ave EXIT

4. DURING THE NB RTE 99 CONNECTOR CLOSURE, THE PCMS MESSAGE AT (B) SHOULD READ...

1ST FRAME	2ND FRAME
FOR NB RTE 99 DETOUR	USE NEXT OFF RAMP

5. FOR MORE CONSTRUCTION AREA SIGNS SEE PLAN SHEET CS-1, TH.

LEGEND:

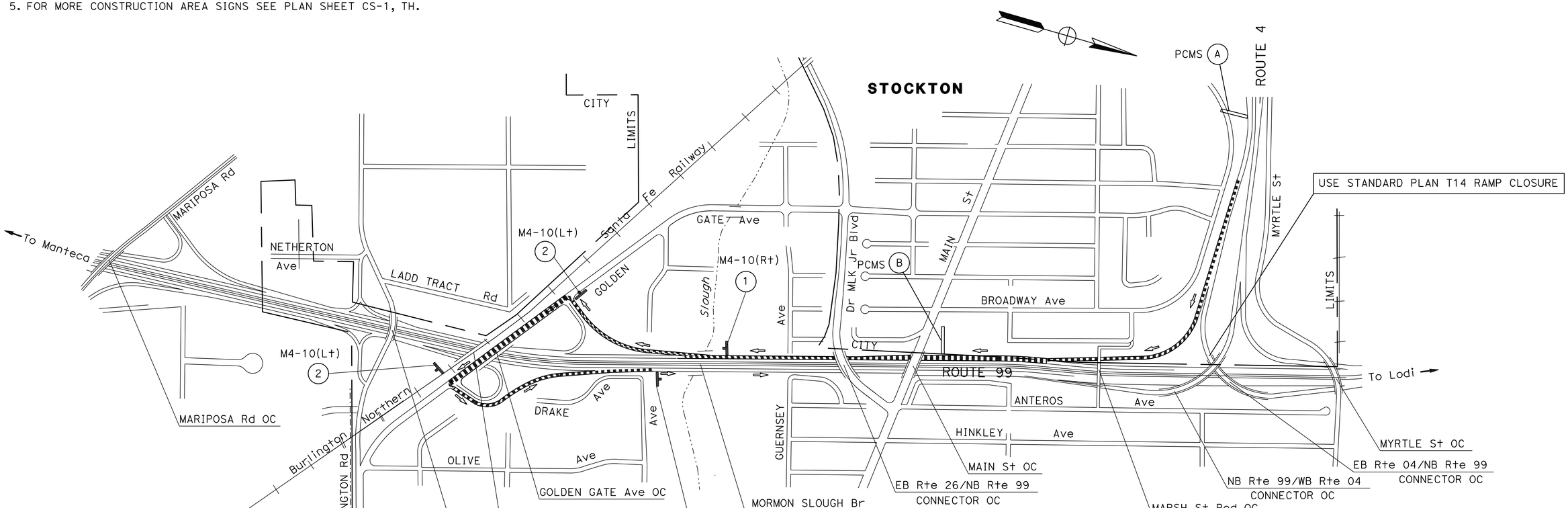
- PORTABLE CHANGEABLE MESSAGE SIGN
- (XX) - CONSTRUCTION AREA SIGN No.
- DETOUR TRAFFIC FLOW

CONSTRUCTION AREA SIGNS (PORTABLE)

SIGN No.	SIGN TYPE	PANEL SIZE	No. OF POST AND SIZE	DESCRIPTION
1	M4-10(Rt)	48" x 18"	1 - 4" x 4"	"DETOUR INSIDE (ARROW)"
2	M4-10(Lt)	48" x 18"	1 - 4" x 6"	"DETOUR INSIDE (ARROW)"
	G27-2(4)	24" x 24"		99 MARKER
	M3-3	30" x 15"		"NORTH"
3	M4-8a	24" x 18"	1 - 4" x 4"	"END DETOUR"

TRAFFIC DETOUR PLAN

NB ROUTE 99 CONNECTOR CLOSED
CONTINUE TO SB ROUTE 99 CONNECTOR
TAKE SB OFF-RAMP TO GOLDEN GATE Ave
TURN LEFT ONTO GOLDEN GATE Ave
TURN LEFT ON TO NB ROUTE 99 ON-RAMP



MOTORIST INFORMATION PLAN

NO SCALE

MI-1

APPROVED FOR MOTORIST INFORMATION WORK ONLY

REVISED BY | DATE REVISED
FERNANDO LOPEZ | HUE NGUYEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 03-25-16 | DATE PLOTTED => 25-JUL-2016 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 1013000083mg001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	31	62

REGISTERED CIVIL ENGINEER — DATE 3/10/16

PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
CIVIL
STATE OF CALIFORNIA

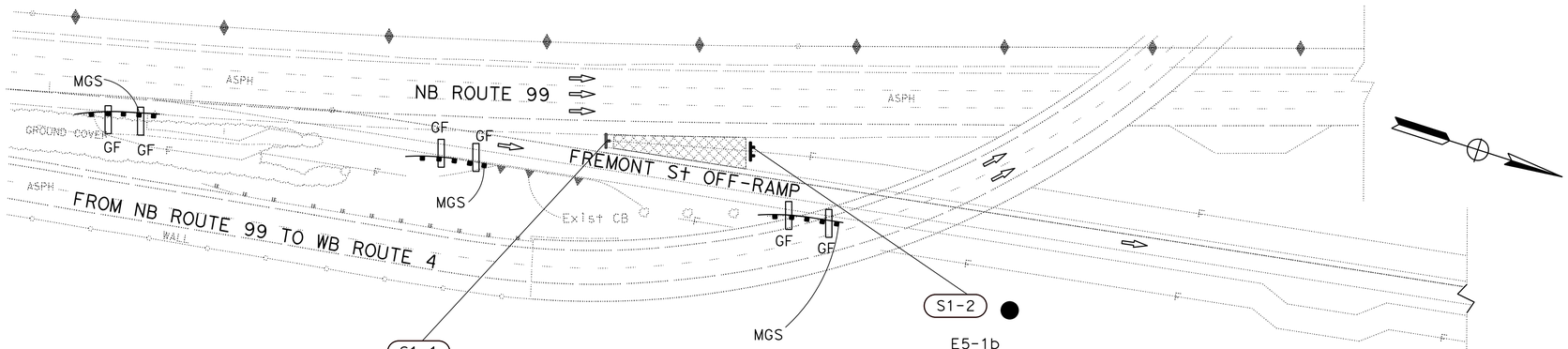
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

LEGEND:

- ● - ROADSIDE SIGN
- △ - RELOCATE ROADSIDE SIGN
- ■ - REMOVE ROADSIDE SIGN
- ▯ G, F - GUARD RAILING DELINEATOR TYPE (CLASS 1) F, G



LOCATION 1

SIGN PLAN
SCALE: 1"=50'

S-1

APPROVED FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
06-TRAFFIC DESIGN

CALCULATED-DESIGNED BY	FERNANDO LOPEZ	REVISED BY	R T
CHECKED BY	HUE NGUYEN	DATE REVISED	03-24-16
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

LAST REVISION 03-25-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 10130000083oa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1512
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	32	62

REGISTERED CIVIL ENGINEER — DATE 3/10/16

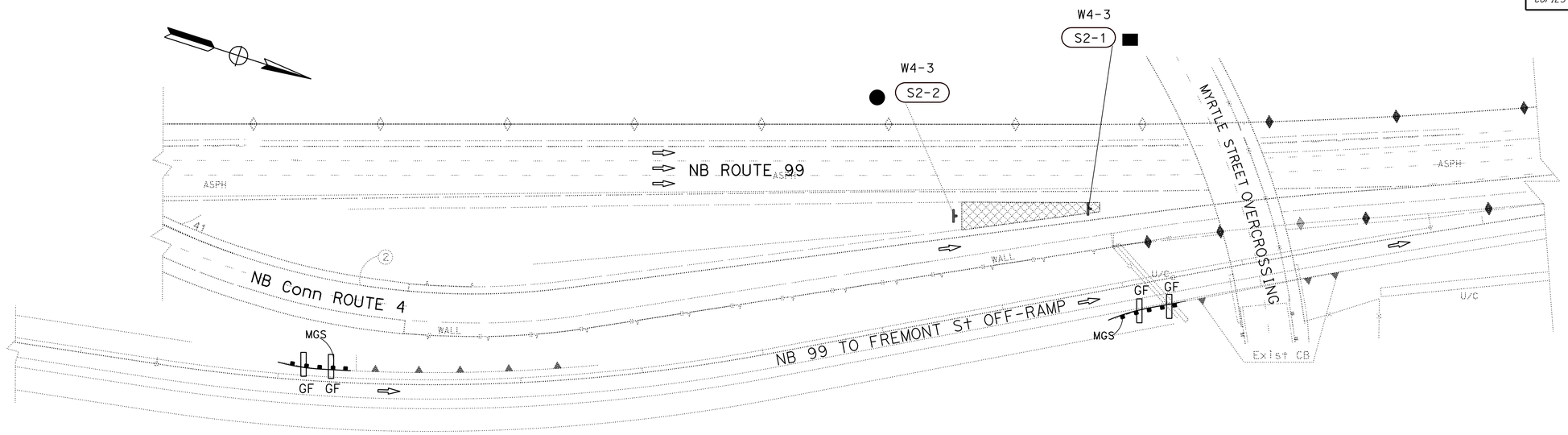
PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER — HUE NGUYEN No. 74484 Exp 12/31/17 CIVIL — STATE OF CALIFORNIA

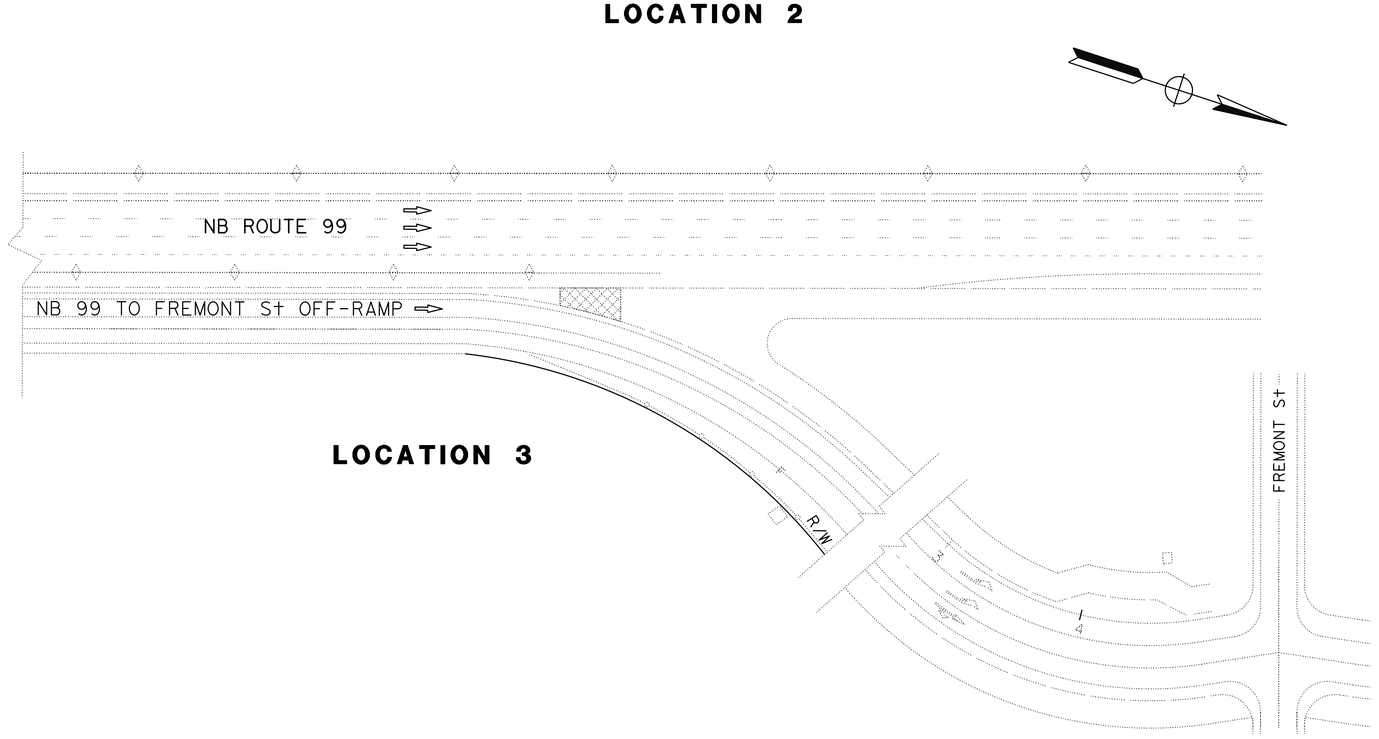
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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



LOCATION 2



LOCATION 3

APPROVED FOR SIGN WORK ONLY

SIGN PLAN

SCALE: 1"=50'

S-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: FERNANDO LOPEZ
CHECKED BY: HUE NGUYEN
REVISED BY: R T
DATE REVISED: 03-24-16
LAST REVISION: 03-25-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 1013000083oa002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	33	62

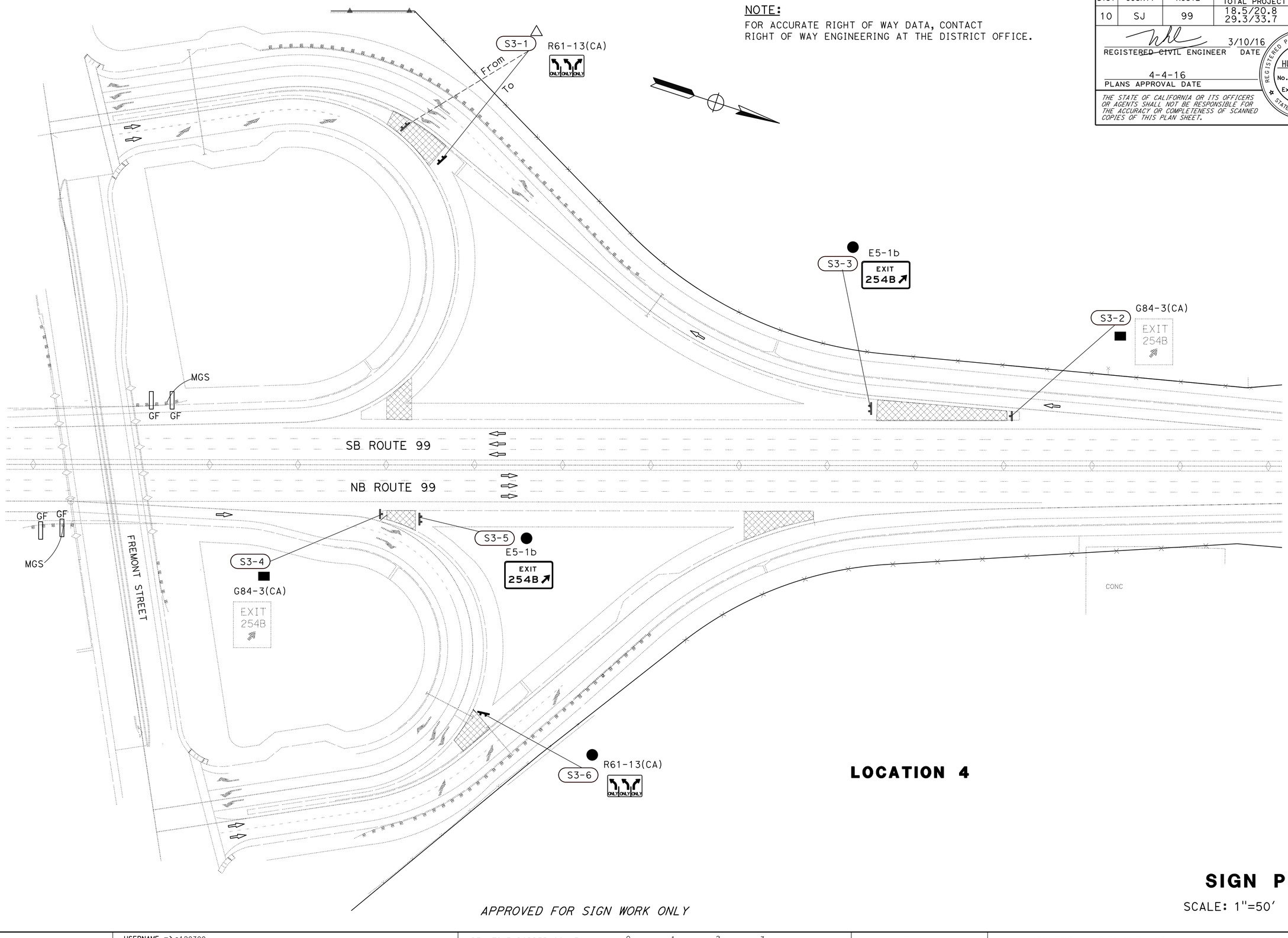
3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
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.

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



LOCATION 4

APPROVED FOR SIGN WORK ONLY

SIGN PLAN

SCALE: 1"=50' **S-3**

CALCULATED-DESIGNED BY	FERNANDO LOPEZ	REVISED BY	R T
CHECKED BY	HUE NGUYEN	DATE REVISED	03-24-16

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **TRAFFIC DESIGN**

LAST REVISION 03-25-16 | DATE PLOTTED => 25-JUL-2016 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 10130000083oa003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1454 | PROJECT NUMBER & PHASE 10130000831

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

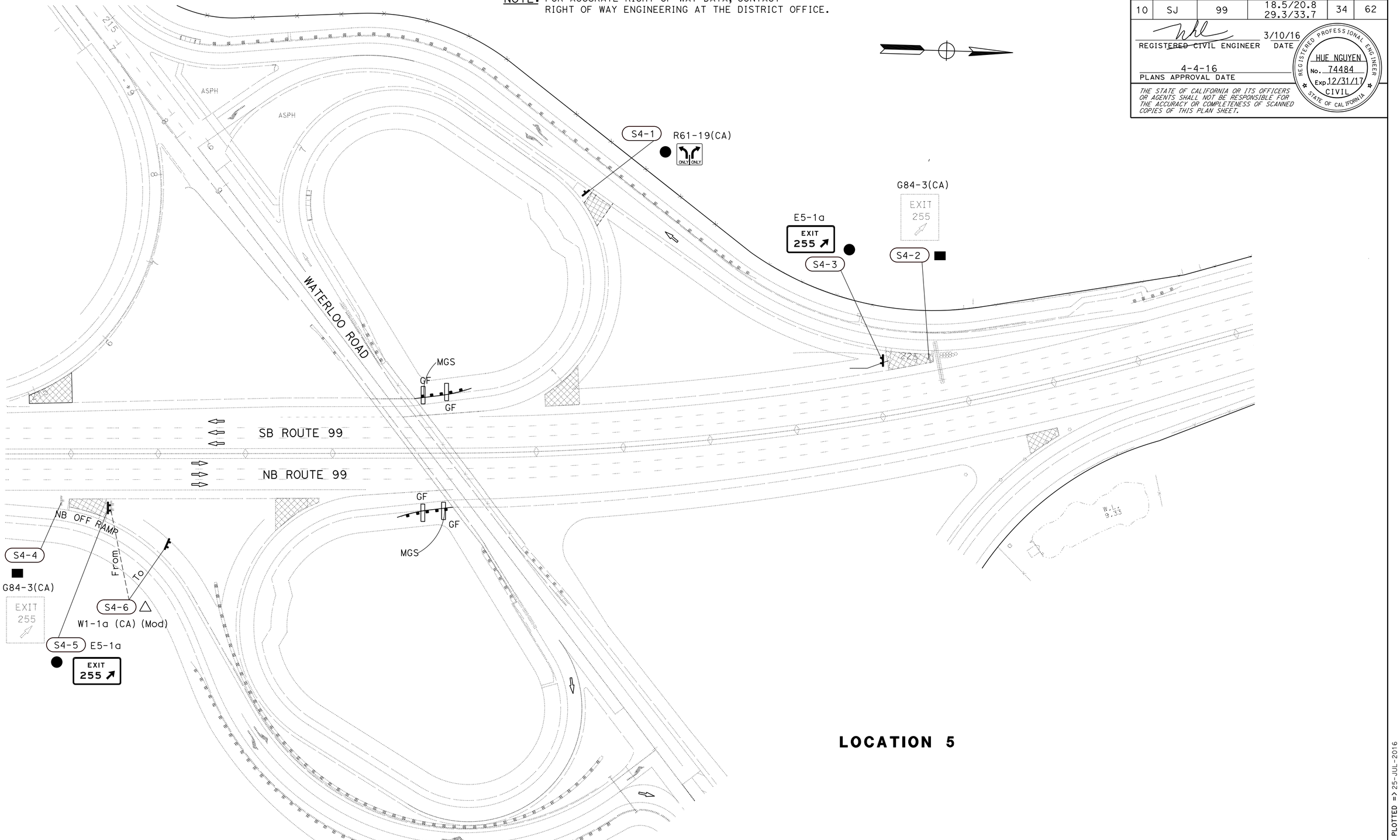
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	34	62

REGISTERED CIVIL ENGINEER — DATE 3/10/16

PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
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.



LOCATION 5

APPROVED FOR SIGN WORK ONLY

SIGN PLAN

SCALE: 1"=50' **S-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **06-TRAFFIC DESIGN**

CALCULATED-DESIGNED BY	FERNANDO LOPEZ	R T	03-24-16
CHECKED BY	HUE NGUYEN	REVISED BY	DATE REVISED
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI		

LAST REVISION 03-25-16 | DATE PLOTTED => 25-JUL-2016 | TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 1013000083oa004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

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

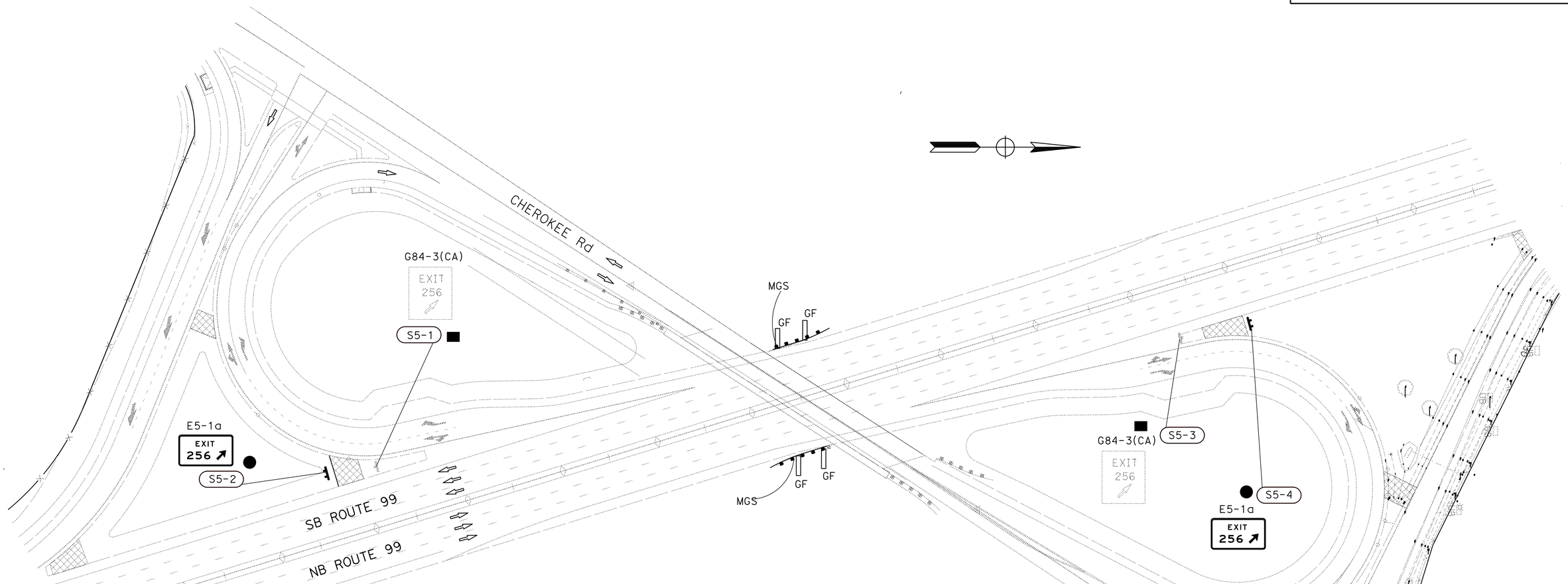
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	35	62

3/10/16
REGISTERED CIVIL ENGINEER DATE

HUE NGUYEN
No. 74484
Exp 12/31/17
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

4-4-16
PLANS APPROVAL DATE

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



LOCATION 6

SIGN PLAN

SCALE: 1"=50' **S-5**

APPROVED FOR SIGN WORK ONLY

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: FERNANDO LOPEZ / HUE NGUYEN
DATE REVISED: R T 03-24-16
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **06-TRAFFIC DESIGN**

LAST REVISION DATE PLOTTED => 25-JUL-2016
03-25-16 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 10130000831oa005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1512 | PROJECT NUMBER & PHASE 10130000831

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

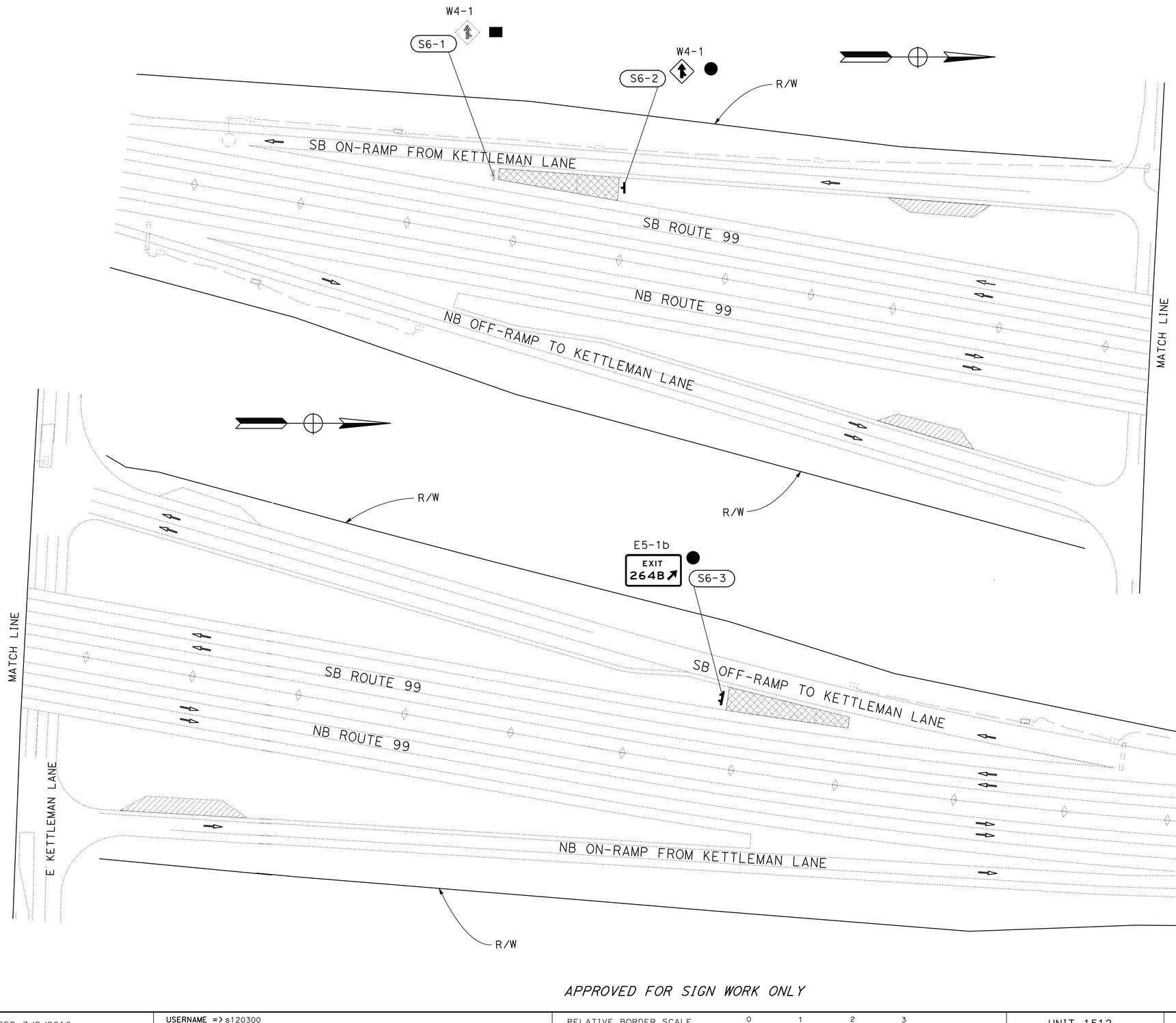
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	36	62

REGISTERED CIVIL ENGINEER — DATE 3/10/16

PLANS APPROVAL DATE 4-4-16

REGISTERED PROFESSIONAL ENGINEER — HUE NGUYEN No. 74484 Exp 12/31/17 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.



LOCATION 7

APPROVED FOR SIGN WORK ONLY

SIGN PLAN

SCALE: 1"=50' **S-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans® **06-TRAFFIC DESIGN**

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: FERNANDO LOPEZ

CHECKED BY: HUE NGUYEN

REVISED BY: R T — DATE REVISED: 03-24-16

LAST REVISION: DATE PLOTTED => 25-JUL-2016 03-25-16 TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 10130000083oa006.dgn

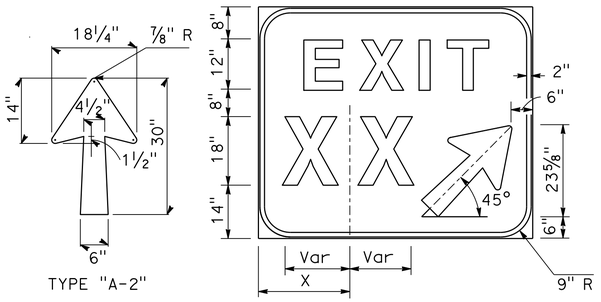
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1512

PROJECT NUMBER & PHASE 10130000831

NOTES:

1. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SIGN POST LENGTH ARE APPROXIMATE, EXACT SIZE AND LENGTH WILL BE DETERMINATED BY THE ENGINEER.



E5-1 SIGN DETAILS

SIGN SPECIFICATIONS						
SIGN No.	BOARD SIZE	No. OF DIGITS	X	ARROW		
				WIDTH	LENGTH	TYPE
E5-1a	90"x60"	3*	33"	18¼"	30"	A-2
E5-1b	108"x60"	4*	42"	18¼"	30"	A-2

* REDUCE SPACING 25% BETWEEN NUMERALS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	37	62

REGISTERED CIVIL ENGINEER — 3/10/16 DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUE NGUYEN
No. 74484
Exp 12/31/17
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.

ROADSIDE SIGN ITEMS

SHEET NUMBER	SIGN NUMBER (SIGN-No)	SIGN CODE		SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	BACKGROUND		LEGEND		PREMIUM GRAFFITI FILM	RETROREFLECTIVE SHEETING (TYPE XI)	FURNISH SINGLE SHEET ALUMINIUM SIGN				REMOVE ROADSIDE SIGN	ROADSIDE SIGN-ONE POST	ROADSIDE SIGN-TWO POST	RELOCATE ROADSIDE SIGN	TREATED WOOD WASTE	GUARD RAILING DELINEATOR
							SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE			0.063"-UNFRAMED	0.063"-FRAMED	FOR RETROREFLECTIVE SHEETING (TYPE XI)							GF
		FEDERAL	CALIFORNIA												UNFRAMED 0.080"	FRAMED 0.080"						
												SQFT	SQFT		SQFT		EA	EA	EA	EA	LB	EA
S-1	S1-1		G84-3(CA)														1				80	6
	S1-2	E5-1b		EXIT 254B WITH ARROW	108" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	45				45			1			
S-2	S2-1	W4-3															1				120	4
	S2-2	W4-3		ADDED LANE SYMBOL	48" x 48"	1 - 6" x 6"	YELLOW	XI	BLACK		X	16			16			1				
S-3	S3-1		R61-13(CA)	INTERSECTION LN CONTROL																1		
	S3-2		G84-3(CA)														1				80	
	S3-3	E5-1b		EXIT 254B WITH ARROW	108" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	45				45			1			4
	S3-4		G84-3(CA)														1				80	
	S3-5	E5-1b		EXIT 254B WITH ARROW	108" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	45				45			1			
	S3-6		R61-13(CA)	INTERSECTION LN CONTROL	72" x 45"	2 - 6" x 6"	WHITE	IX	BLACK		X			22.5					1			
S-4	S4-1		R61-19(CA)	INTERSECTION LN CONTROL	36" x 30"	1 - 4" x 4"	WHITE	IX	BLACK		X		7.5					1				
	S4-2		G84-3(CA)														1				80	4
	S4-3	E5-1a		EXIT 255 WITH ARROW	90" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	37.5				37.5			1			
	S4-4		G84-3(CA)														1				80	
	S4-5	E5-1a		EXIT 255 WITH ARROW	90" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	37.5				37.5			1			
	S4-6		W1-1a(CA)(Mod)	Combination Horizontal Align/Advisory Speed																1		
S-5	S5-1		G84-3(CA)	EXIT 256 WITH ARROW													1				80	4
	S5-2	E5-1a		EXIT 256 WITH ARROW	90" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	37.5				37.5			1			
	S5-3		G84-3(CA)	EXIT 256 WITH ARROW													1				80	
	S5-4	E5-1a		EXIT 256 WITH ARROW	90" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	37.5				37.5			1			
S-6	S6-1	W4-1															1					
	S6-2	W4-1		MERGE	48" x 48"	1 - 6" x 6"	YELLOW	XI	BLACK		X	16			16			1				
	S6-3	E5-1b		EXIT 264B WITH ARROW	108" x 60"	2 - 6" x 6"	GREEN	XI	WHITE	XI	X	45				45			1			
TOTAL												362.0	7.5	22.5	32	330.0	9	3	9	2	680	22

SIGN QUANTITIES SQ-1

REVISED BY	DATE REVISED
I A	02-25-16

CALCULATED-DESIGNED BY: FERNANDO LOPEZ
CHECKED BY: HUE NGUYEN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 02-25-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083oc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1512
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	38	65

Richard J. Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp 6/30/16
CIVIL
STATE OF CALIFORNIA

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

ROADWAY ITEMS

Loc No	PM	LOCATION	HMA (TYPE A)	TACK COAT	CI 2 AB	ROADWAY EXCAVATION	IMPORT BORROW	MINOR Conc (TEXTURED PAVING)	SLOPE PAVING CONCRETE
			TON	TON	CY	CY	CY	CY	CY
1	18.5	NB 99 TO FREMONT St OFF RAMP (GORE)			27	54		27	
2	18.8	WB 04 TO NB 99 ON RAMP (GORE)			33	66		33	
3	19.1	NB 99 TO FREMONT St OFF RAMP (GORE)			13	25		13	
4	19.3	FREMONT STREET (GORE PAVING)							
		NB 99 TO FREMONT St OFF RAMP			9	18		9	
		NB 99 TO FREMONT St OFF RAMP (LOOP)			16	31		16	
		SB 99 TO FREMONT St OFF RAMP			46	92		46	
		SB 99 TO FREMONT St OFF RAMP (LOOP)			29	57		29	
5	20.3	WATERLOO ROAD (GORE PAVING)							
		SB 99 TO WATERLOO Rd OFF RAMP (LOOP)			10	21		10	
		SB 99 TO WATERLOO Rd OFF RAMP			14	29		14	
		NB 99 TO WATERLOO Rd OFF RAMP			11	22		11	
6	20.8	CHEROKEE ROAD (GORE PAVING)							
		SB 99 TO CHEROKEE Rd OFF RAMP (LOOP)			8	16		8	
		SB 99 TO CHERPKEE Rd OFF RAMP			17	35		17	
		NB 99 TO CHEROKEE Rd OFF RAMP (LOOP)			13	21		13	
		NB 99 TO CHEROKEE Rd OFF RAMP			17	33		17	
7	29.3	KETTLEMAN LANE (GORE/SLOPE PAVING)							
		SB 99 FROM KETTLEMAN LANE ON RAMP (GORE)			37	73		37	
		SB 99 TO KETTLEMAN LANE OFF RAMP (GORE)			37	73		37	
		SB 99 FROM KETTLEMAN LANE ON RAMP (MVP)	30	0.1	22	29			
		NB 99 TO KETTLEMAN LANE OFF RAMP (MVP)	30	0.1	22	29			
		NB 99 FROM KETTLEMAN LANE ON RAMP (MVP)	30	0.1	22	29			
8	30.5	E LODI AVENUE							
		NB 99 (SLOPE PAVING)				11.38	15.04		16.4
		SB 99 (SLOOP PAVING)				19.41	7.22		8.1
9	30.7	E PINE STREET							
		NB 99 (SLOPE PAVING)				27.68	3.74		13.8
		SB 99 (SLOOP PAVING)				25.55	4.56		13.9
10	31.0	ROUTE 12/99 Sep (VICTOR Rd)							
		NB 99 (SLOPE PAVING)				20.1	40.6		26.5
		SB 99 (SLOOP PAVING)				96.99	25.44		29.5
11	31.0	E LOCKFORD STREET							
		NB 99 (SLOPE PAVING)				14.6	14.57		17.1
		SB 99 (SLOOP PAVING)				18.95	18.24		20.5
12	32.5	WOODBRIDGE ROAD							
		NB 99 (SLOPE PAVING)				34.01	2		9.4
		SB 99 (SLOOP PAVING)				18.39			19.3
		NB 99 AT WOODBRIDGE Rd (MVP)	30	0.1	22	29			
13	33.7	ACAMPO ROAD							
		NB 99 (SLOPE PAVING)				32.93	1.27		22.1
		SB 99 (SLOOP PAVING)				13.96	8.3		10.0
		SB 99 FROM ACAMPO Rd ON RAMP (MVP)	30	0.1	22	29			
		SB 99 TO ACAMPO Rd OFF RAMP (MVP)	30	0.1	22	29			
		DIKE PAD	9.6						
		FROM DIKE QUANTITIES	10.2						
		TOTAL	199.8	0.6	469	1174	141	337	207

NOTES:

1- * - QUANTITY INCLUDED IN ROADWAY ITEMS TABLE.
2- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
3- SEE CONSTRUCTION DETAILS FOR MORE INFORMATION
4- ON VEGETATION CONTROL (MINOR CONCRETE).

ABBREVIATIONS:

CCTV - CLOSED CIRCUIT TELEVISION CAMERA
MVDS - MICROWAVE VEHICLE DETECTION SYSTEM
RWIS - ROADSIDE WEATHER INFORMATION SYSTEM
TMS - TRAFFIC MONITORING STATION
N/O - NORTH OFF
S/O - SOUTH OFF

DIKE QUANTITIES

Loc No	PM	LOCATION	PLACE HMA DIKE (TYPE E)	HMA
			LF	TON
7	29.3	NB ON RAMP FROM KETTLEMAN LN	131	3.4
13	33.7	SB ON RAMP FROM ACAMPO RD	131	3.4
13	33.7	SB OFF RAMP TO ACAMPO RD	131	3.4
		TOTAL	393	10.2*

SUMMARY OF QUANTITIES
Q-1

G. E.	03-23-16	CALCULATED-DESIGNED BY	GABE ELEFANTE
G. E.	2-16-16	CHECKED BY	RICHARD BOYER
REVISED BY		FUNCTIONAL SUPERVISOR	NOMER GUTIERREZ
DATE REVISED		STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN

LAST REVISION 2-16-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1012000083pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1454
PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	39	62

Richard J. Boyer 3/10/16
REGISTERED CIVIL ENGINEER DATE

4-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RICHARD J. BOYER
No. 75844
Exp. 6/30/16
CIVIL
STATE OF CALIFORNIA

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

MIDWEST GUARDRAIL SYSTEM

SHEET	LOCATION		MIDWEST GUARDRAIL SYSTEM (WOOD POST)	REMOVE GUARDRAIL	ALTERNATIVE IN-LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	END ANCHOR ASSEMBLY (TYPE SFT)	LAYOUT TYPE	TREATED WOOD WASTE	TRANSITION RAILING (TYPE WB-31)	END CAP (TYPE TC)	Conc BARRIER (TRANSITION)	RUBBER MAT
			LF	LF	EA	EA	EA		LB	EA	EA	LF	SQYD
L-1	1	NB 99 TO FREMONT St OFF-RAMP PM 18.5											
			50	65		1	1	16B	1321				35.3
			50	65		1		12B	1321	1	1		35.3
			50	65		1	1	16B	1321				35.3
L-2	2	NB 99 TO FREMONT St OFF-RAMP PM 18.8											
			50	65	1			12A	1321	1	1		26.7
			50	65		1	1	12B	1321	1	1		35.3
L-3	4	FREMONT STREET											
		NB	50	65		1		12B	1304	1	1		35.3
		SB	50	65		1		12B	1304	1	1		35.3
L-4	5	WATERLOO ROAD											
		NB	50	65		1		12B	1304	1	1		35.3
		SB	50	65		1		12B	1304	1	1		35.3
L-5	6	CHEROKEE ROAD											
		NB	120	125		1		16B	2455	1	1	9.4	66.4
		SB	120	125		1		16B	2640	1	1	9.4	66.4
SUBTOTAL									16,912				
FROM Sht SQ-1									680				
TOTAL			690	835	1	10	3		17,592	9	9	18.8	441.9

IRRIGATION CONDUIT

LOCATION No.	LOCATION		SIDE		PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	(N) ELECTRICAL CONDUIT	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE
					CONDUIT SIZE (INCH)		
	LINE	STATION	Lt	Rt	2-1/2"	3"	12"
8	NB 99	PM 30.5 LODI AVENUE		X	68	68	68
9	NB 99	PM 30.75 E. PINE STREET		X	64	64	64
10	NB 99	PM 31.0 E. VICTOR ROAD		X	90	90	90
11	NB 99	PM 31.0 E. LOCKEFORD ROAD		X	63	63	63
12	NB 99	PM 32.5 WOODBRIDGE ROAD		X	42	42	42
13	NB 99	PM 33.0 ACAMPO ROAD		X	40	40	40
8	SB 99	PM 30.5 LODI AVENUE	X		66	66	66
9	SB 99	PM 30.75 E. PINE STREET	X		61	61	61
10	SB 99	PM 31.0 E. VICTOR ROAD	X		90	90	90
11	SB 99	PM 31.0 E. LOCKEFORD ROAD	X		63	63	63
12	SB 99	PM 32.5 WOODBRIDGE ROAD	X		42	42	42
13	SB 99	PM 33.0 ACAMPO ROAD	X		40	40	40
TOTAL					729 **		729

X - DENOTES REQUIREMENT
** - QUANTITY INCLUDED IN LANDSCAPE QUANTITIES SHEET

ADJUST UTILITY COVER TO GRADE

LOCATION		NB	SB
		EA	EA
Loc 10	E. VICTOR ROAD PM 31.00	2	
Loc 11	E. LOCKFORD STREET PM 31.00		1
Loc 12	WOODBRIDGE ROAD PM 32.50		1
SUBTOTAL		2	2
TOTAL		4	

SUMMARY OF QUANTITIES
Q-2

G. E.	03-24-16	GABE ELEFANTE	DESIGN
G. E.	2-16-16	RICHARD BOYER	
REVISED BY	DATE REVISED		
CALCULATED-DESIGNED BY		NOMER GUTIERREZ	
CHECKED BY			
FUNCTIONAL SUPERVISOR			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 2-16-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	40	62

Agustin Escutia
LICENSED LANDSCAPE ARCHITECT

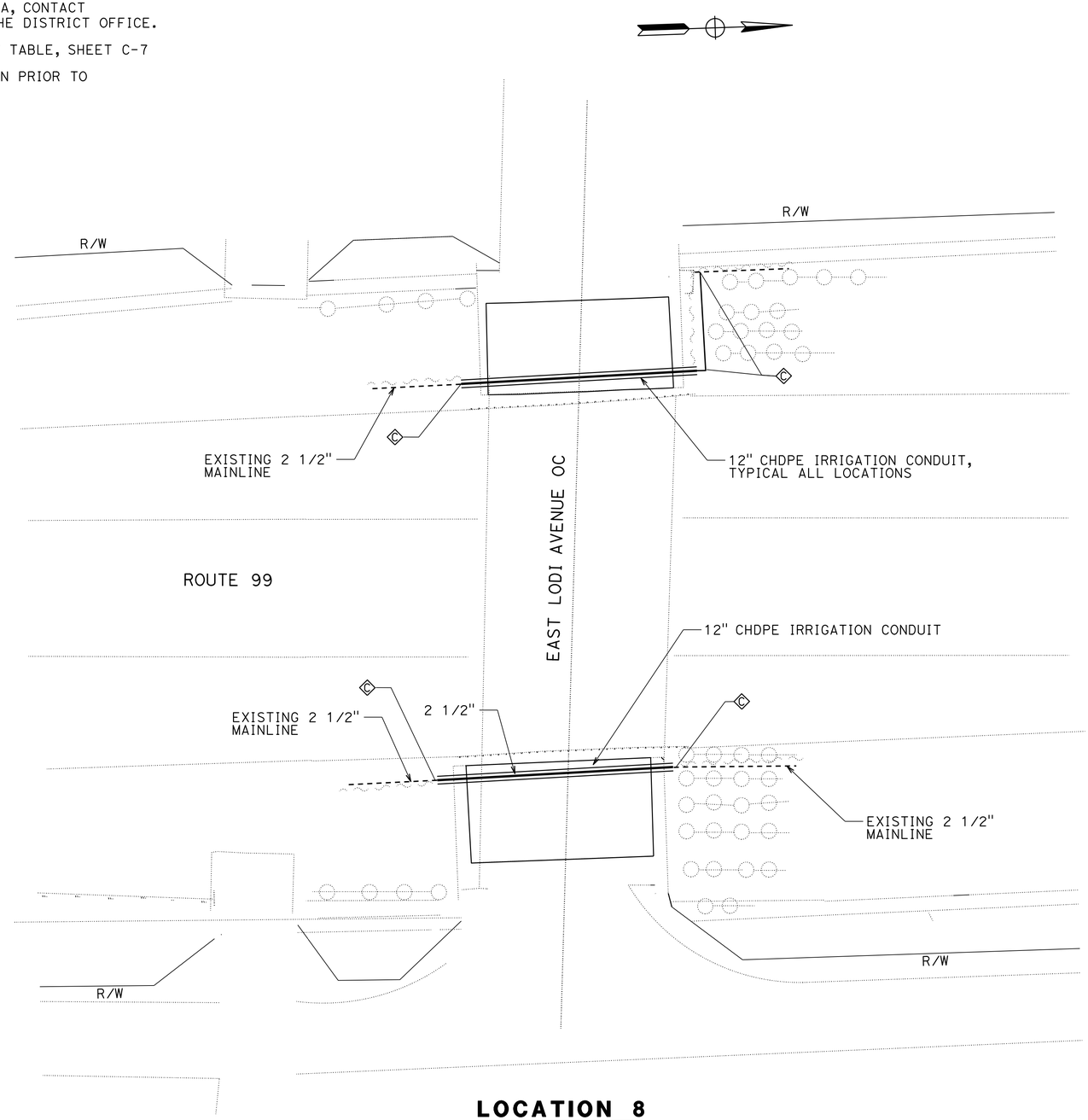
4-4-16
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
AGUSTIN ESCUTIA 3575
Signature
5/31/16
Renewal Date
04/04/16
Date
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. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE REMOVE IRRIGATION FACILITY TABLE, SHEET C-7
3. CUT AND CAP EXISTING IRRIGATION PRIOR TO CLEARING AND GRUBBING.



LOCATION 8
PM R30.5

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN

SCALE: 1"=20'

IP-1

CALCULATED-DESIGNED BY	G.E.	03-21-16
CHECKED BY	G.E.	03-10-16
	G.E.	01-07-15
	REVISED BY	DATE REVISED

GUS ESCUTIA
ROBYN FONG

FUNCTIONAL SUPERVISOR
BRAD COLE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44
03-21-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	41	62

Agustin Escutia
LICENSED LANDSCAPE ARCHITECT

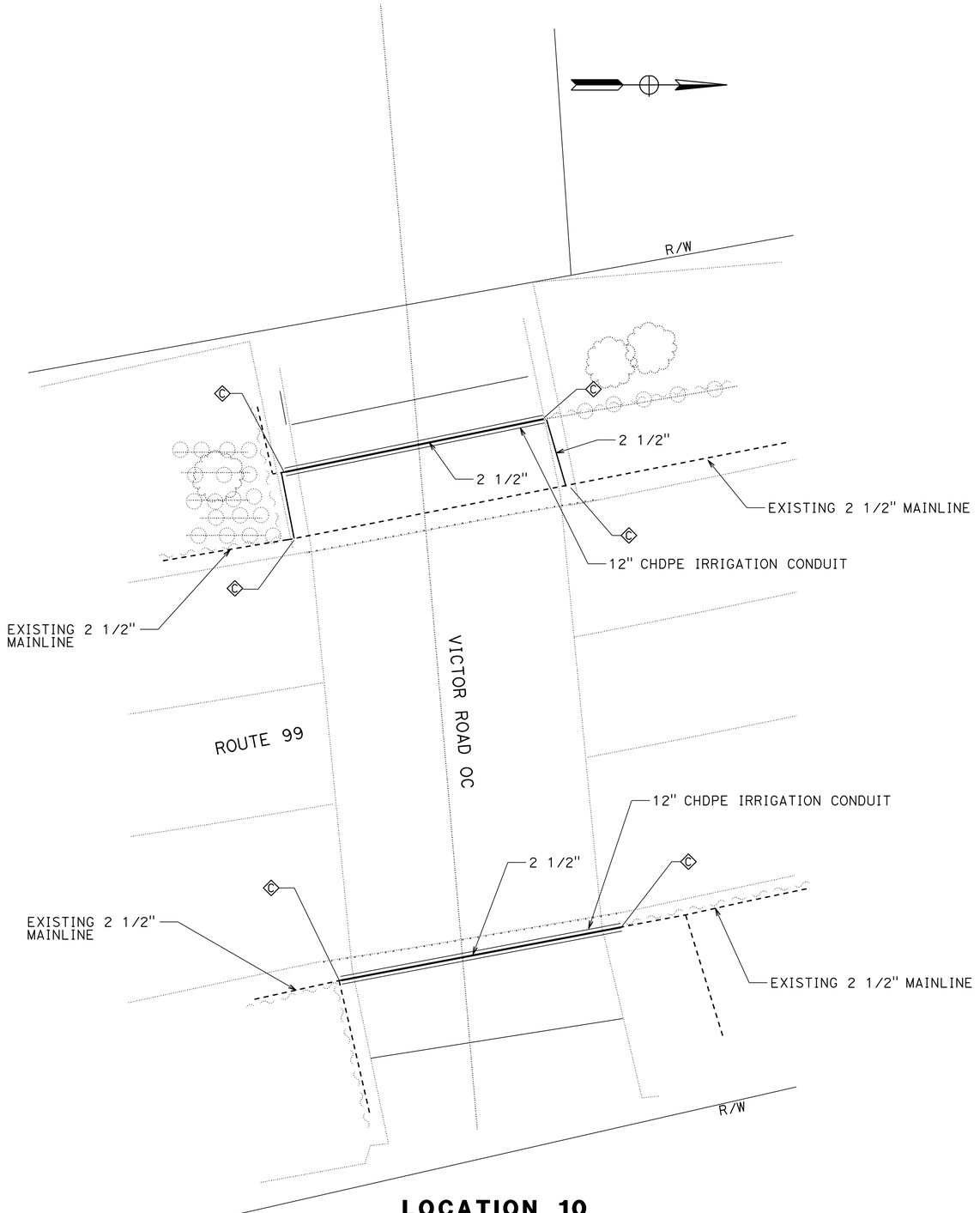
4-4-16
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
AGUSTIN ESCUTIA 3525
Agustin Escutia
Signature
5/31/16
Renewal Date
03/21/16
Date
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.

NOTE:

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



LOCATION 10

PM R31.0

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN

SCALE: 1"=20'

IP-2

G.E.	G.E.	03-21-16
G.E.	03-10-16	
G.E.	1-07-15	
REVISED BY	DATE REVISED	
GUS ESCUTIA	ROBYN FONG	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	BRAD COLE	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION 03-21-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010

USERNAME => s120300
DGN FILE => 1013000083sp002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1503

PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	42	62

Agustin Escutia
LICENSED LANDSCAPE ARCHITECT

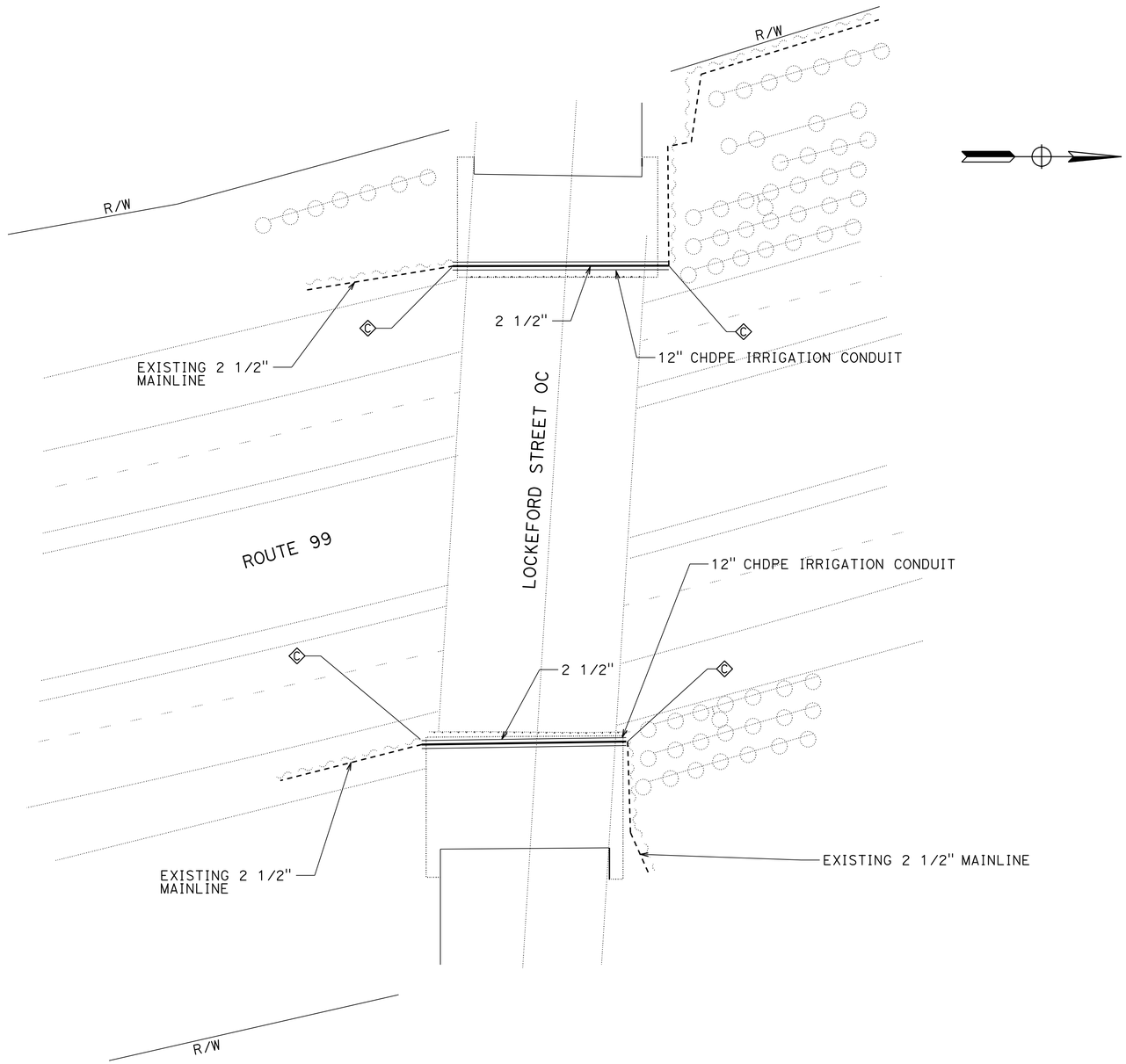
4-4-16
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
AGUSTIN ESCUTIA 3583
Agustin Escutia
Signature
5/31/16
Renewal Date
03/21/16
Date
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.

NOTE:

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



LOCATION 11

PM R31.0

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN

SCALE: 1"=20'

IP-3

CALCULATED-DESIGNED BY		G.E.	03-21-16
CHECKED BY		G.E.	03-10-16
GUS ESCUTIA	ROBYN FONG	G.E.	1-07-15
REVISED BY	DATE REVISED		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

FUNCTIONAL SUPERVISOR: BRAD COLE

LAST REVISION 03-21-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

BORDER LAST REVISED 7/2/2010 | USERNAME => s120300 | DGN FILE => 1013000083sp003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1503 | PROJECT NUMBER & PHASE 10130000831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	43	62

Agustin Escutia
LICENSED LANDSCAPE ARCHITECT

4-4-16
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
AGUSTIN ESCUTIA 3585
Signature
5/31/16
Renewal Date
03/21/16
Date
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.

LANDSCAPE QUANTITIES

SHEET	LOCATION No.	DESCRIPTION	PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	WOOD MULCH		REMARKS
			2-1/2"	CY	(N) SQFT	
NOT SHOWN ON PLANS	8	PM 30.5 Lodi Avenue	82	13.0	1400	APPLY WOOD CHIP MULCH TO A UNIFORM DEPTH OF 3 INCHES ON DISTURBED SOIL AREAS TO APPROXIMATELY 10 FEET FROM EDGE OF PAVED SLOPE.
	9	PM 30.75 E. Pine Street		11.2	1200	
	10	PM 31.0 E. Victor Road	102	13.0	1400	
	11	PM 31.0 E. Lockeford Road		13.9	1500	
	12	PM 32.5 Woodbridge Road		8.2	880	
	13	PM 33.0 Acampo Road		13.0	1400	
	IRRIGATION CONDUIT TABLE TOTAL		729			
	TOTAL		913	72.3		

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

REVISED BY	DATE REVISED
G.E.	01-07-15
G.E.	03-09-16
G.E.	03-21-16

CALCULATED-DESIGNED BY: GUS ESCUTIA
CHECKED BY: ROBYN FONG
FUNCTIONAL SUPERVISOR: BRAD COLE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

LAST REVISION 03-21-16
DATE PLOTTED => 25-JUL-2016
TIME PLOTTED => 15:44

LANDSCAPE QUANTITIES
LQ-1

BORDER LAST REVISED 7/2/2010
USERNAME => s120300
DGN FILE => 1013000083sz001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1503
PROJECT NUMBER & PHASE 10130000831

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
ℙ,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
10	SJ	99	18.5/20.8 29.3/33.7	44	62

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Grace M. Tsushima No. C49814 Exp. 9-30-14 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.

TO ACCOMPANY PLANS DATED 4-4-16

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)

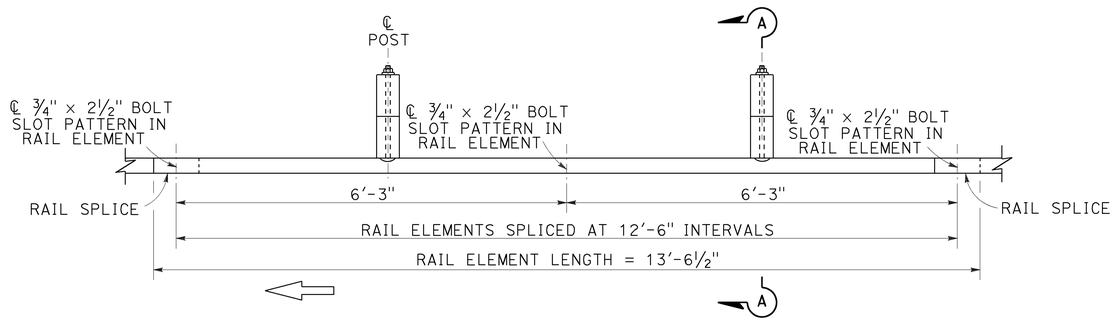
NO SCALE

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

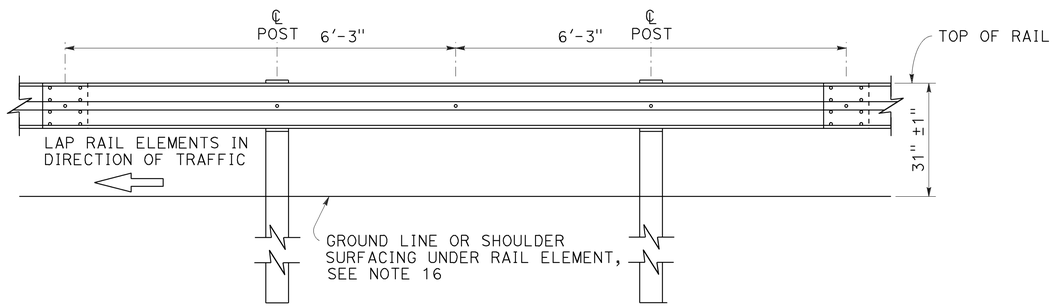
REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

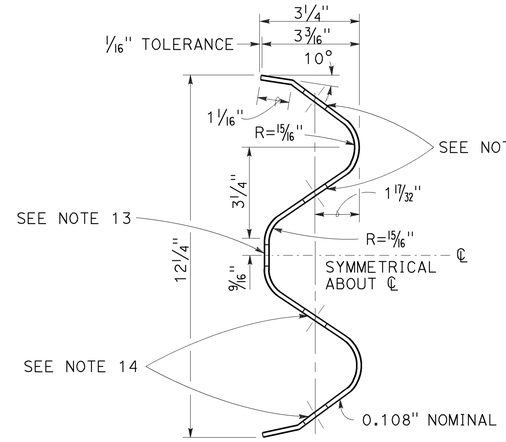


PLAN

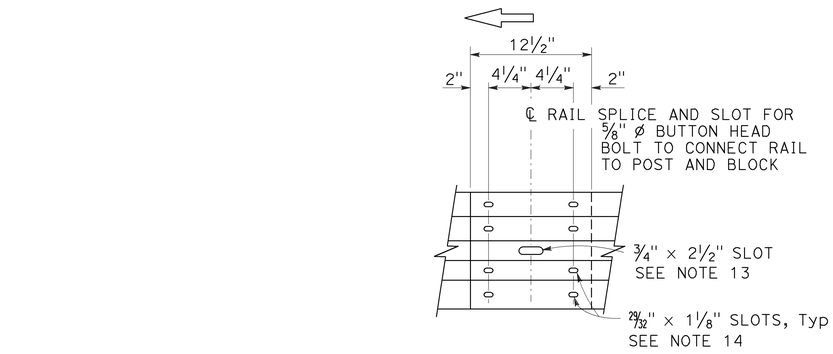


ELEVATION

MIDWEST GUARDRAIL SYSTEM WITH WOOD POST AND BLOCKS



SECTION THRU RAIL ELEMENT



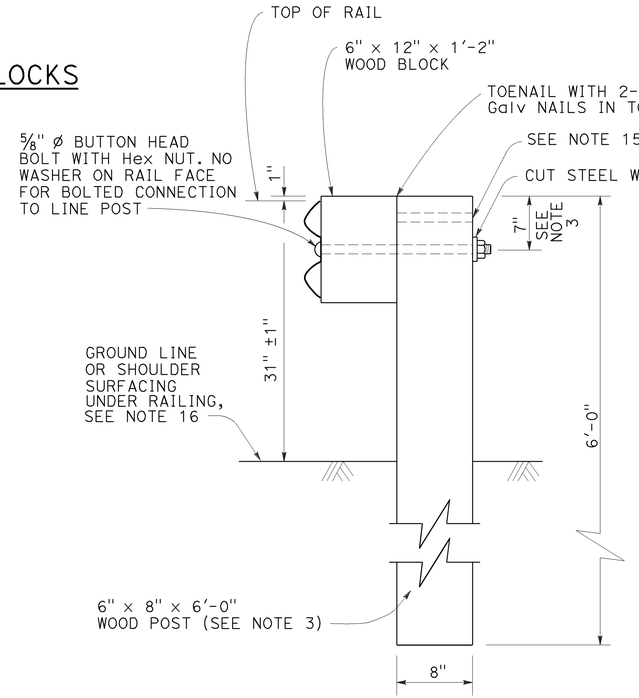
ELEVATION

RAIL ELEMENT SPLICE DETAIL

a) Connect the over lapped end of the rail elements with ⅝" ø × 1⅜" button head oval shoulder splice bolts inserted into the 29/32" × 1⅛" slots and bolted together with ⅝" ø recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.

b) The ends of the rail elements are to be overlapped in the direction of traffic (see details).

c) Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.



SECTION A-A

TYPICAL WOOD LINE POST INSTALLATION

See Note 4

NOTES:

1. For details of steel post installations, see Revised Standard Plan RSP A77L2.
2. For details of standard hardware used to construct MGS, see Revised Standard Plan RSP A77M1.
3. For details of wood posts and wood blocks used to construct MGS, see Revised Standard Plan RSP A77N1.
4. For additional installation details, see Revised Standard Plan RSP A77N3.
5. MGS post spacing to be 6'-3" center to center, except as otherwise noted.
6. For MGS typical layouts, see the A77P, A77Q and A77R Series of Standard Plans.
7. If railing is connected to terminal system end treatment, use 31" height terminal system end treatment.
8. For MGS end anchor details, see Revised Standard Plans RSP A77S1 and RSP A77T2.
9. For details of MGS transition to bridge railing, see Revised Standard Plan RSP A77U4.
10. For additional details of MSG connection to bridge railing, see Revised Standard Plans RSP A77U1, RSP A77U2 and RSP A77V1.
11. For MGS connection details to abutments and walls, see Revised Standard Plan RSP A77U3.
12. For typical MGS delineation and dike positioning details, see Revised Standard Plan RSP A77N4.
13. Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
14. Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
15. Additional hole in uppermost portion of line post is for potential future adjustments of railing height. See Revised Standard Plan RSP A77N1.
16. Install posts in soil.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	45	62

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Randell D. Hiatt No. C50200 Exp. 6-30-15 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 4-4-16

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION (WOOD POST WITH WOOD BLOCK)

NO SCALE

RSP A77L1 DATED JULY 19, 2013 SUPPLEMENTS STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77L1

2010 REVISED STANDARD PLAN RSP A77L1

7-3-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	46	62

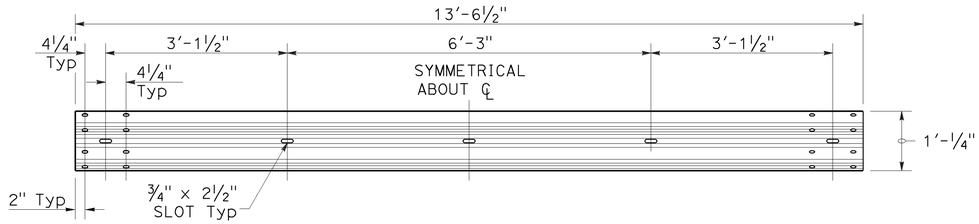
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
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.

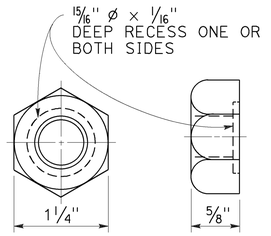
TO ACCOMPANY PLANS DATED 4-4-16



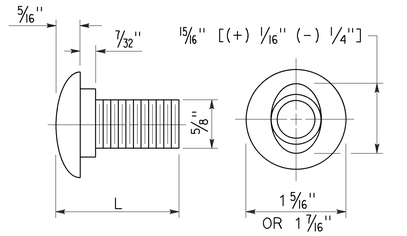
TYPICAL RAIL ELEMENT

NOTE:

1. Slotted holes for splice bolts to overlap ends of rail element.



⅝" ø RECESS NUT

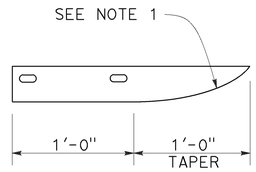


⅝" ø BUTTON HEAD BOLT

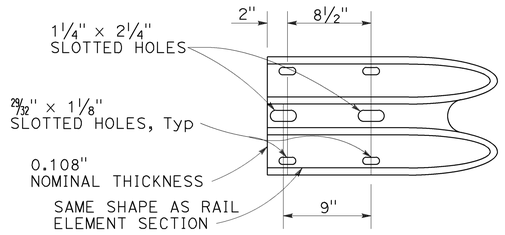
BUTTON HEAD BOLT

L	THREAD LENGTH
1⅜"	FULL THREAD LENGTH
2"	FULL THREAD LENGTH
10"	4" Min THREAD LENGTH
18"	4" Min THREAD LENGTH
20"	4" Min THREAD LENGTH
22"	4" Min THREAD LENGTH
26"	4" Min THREAD LENGTH
36"	4" Min THREAD LENGTH
** 2¾"	2" Min THREAD LENGTH
** 19"	4" Min THREAD LENGTH

** For nested rail applications.



PLAN



ELEVATION

END CAP (TYPE A)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM STANDARD HARDWARE

NO SCALE

RSP A77M1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77M1

2010 REVISED STANDARD PLAN RSP A77M1

7-3-13

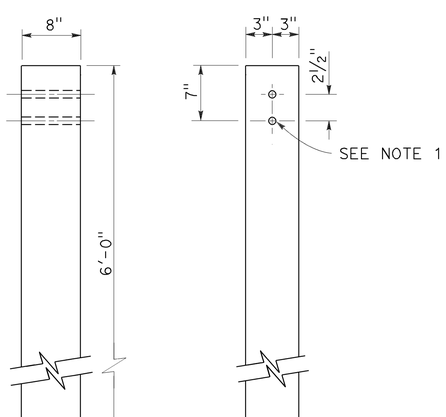
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	47	62

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

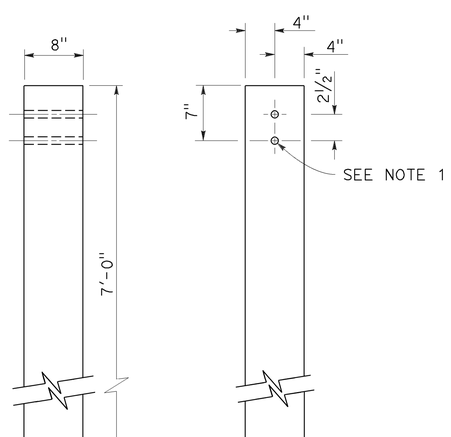
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-4-16



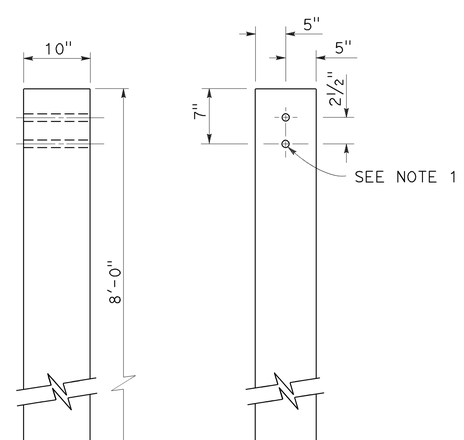
SIDE FRONT

6" x 8" WOOD POST
See Note 3



SIDE FRONT

8" x 8" WOOD POST
See Note 4

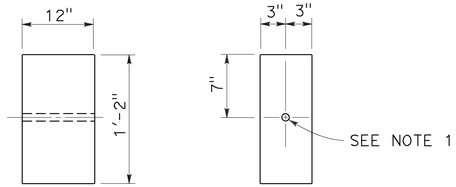


SIDE FRONT

10" x 10" WOOD POST
See Note 5

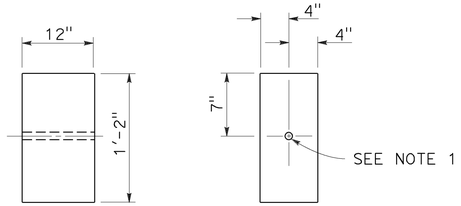
NOTES:

1. All holes in wood posts and blocks shall be ¾" Dia ± 1/16".
2. Dimensions shown for wood post are nominal.
3. This post and block combination used for standard line post sections of MGS.
4. This post and 8" x 12" block combination used for line post sections of MGS on narrow roadways.
5. This post and 8" x 12" block combination is typically used where strengthened line post sections of MGS are warranted to shield fixed objects.
6. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" wood blocks.



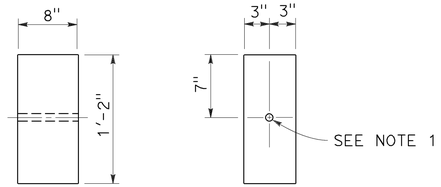
SIDE FRONT

6" x 12" WOOD BLOCK
See Note 3



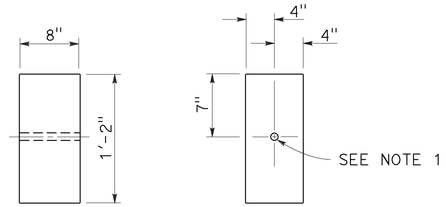
SIDE FRONT

8" x 12" WOOD BLOCK



SIDE FRONT

6" x 8" WOOD BLOCK
Only for use with metal beam guard rail see Note 6



SIDE FRONT

8" x 8" WOOD BLOCK
Only for use with metal beam guard rail see Note 6

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM WOOD POST AND WOOD BLOCK DETAILS

NO SCALE

RSP A77N1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N1

2010 REVISED STANDARD PLAN RSP A77N1

7-3-13

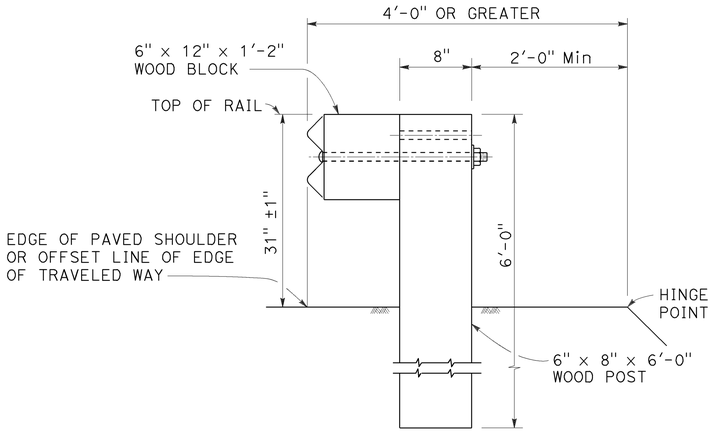
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	48	62

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

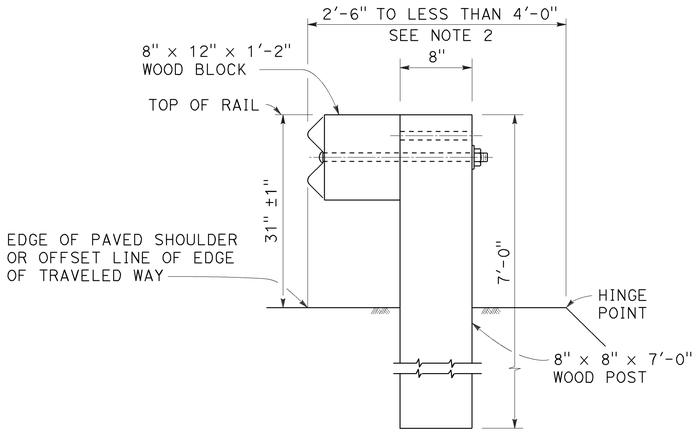
TO ACCOMPANY PLANS DATED 4-4-16



DETAIL A

TYPICAL ROADWAY INSTALLATION

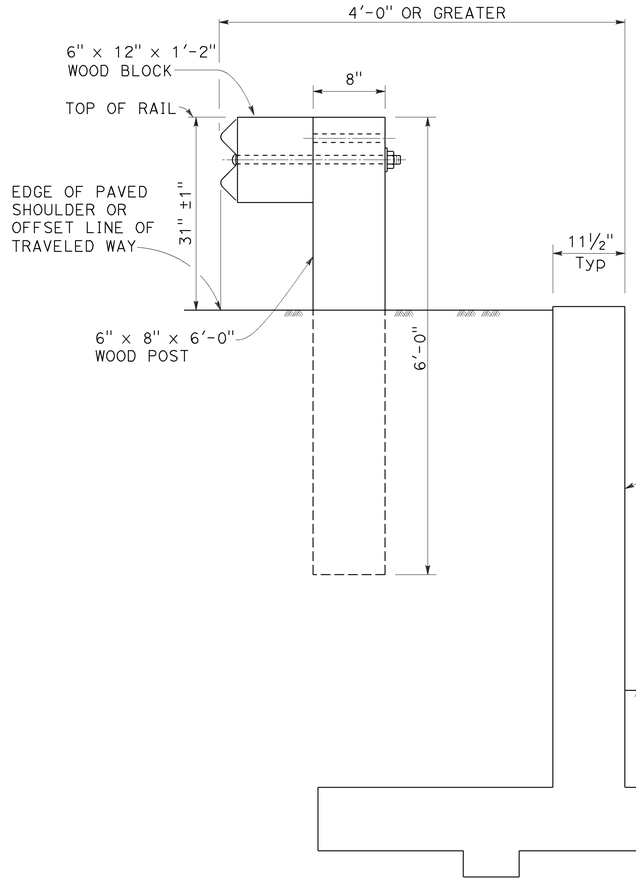
See Note 1



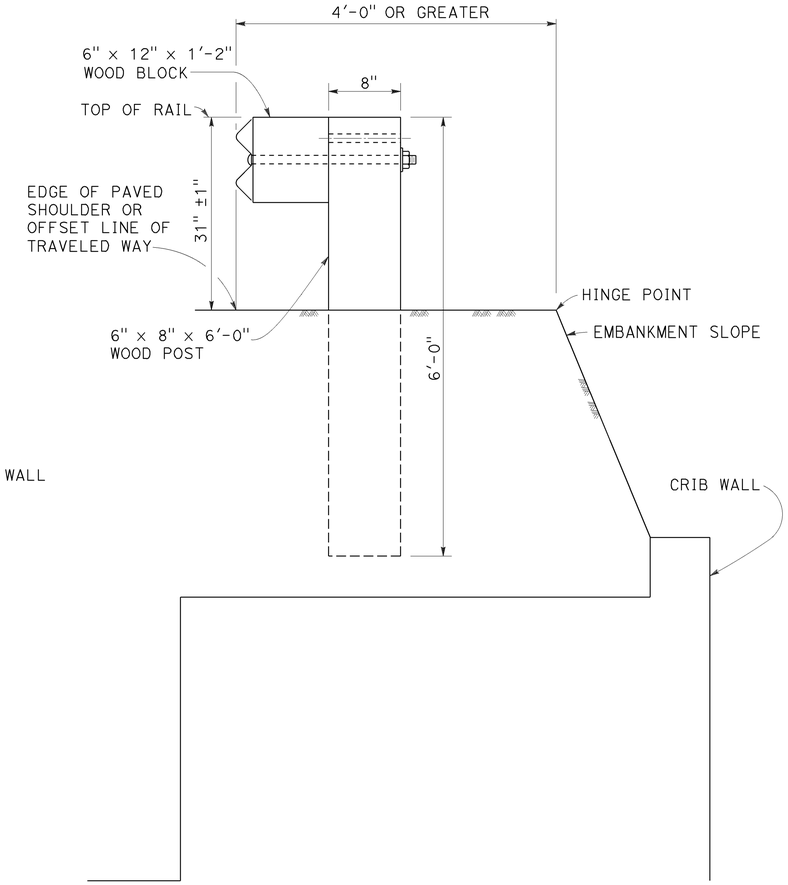
DETAIL B

NARROW ROADWAY INSTALLATION

See Note 1



DETAIL C



DETAIL D

POST EMBEDMENT

INSTALLATION AT EARTH RETAINING WALLS

NOTES:

1. These installation details also applicable to steel line post installations. For Detail A, C, and D, where steel line post installations are constructed, W6 x 8.5 or W6 x 9 steel post, 6'-0" in length, with 6" x 12" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For Detail B, where steel line post installations are constructed, W6 x 15 steel post, 8'-0" in length, with 8" x 12" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For additional installation details, see Revised Standard Plan RSP A77L1 and RSP A77L2.
2. Where the distance between the face of the rail and the hinge point is less than 2'-6", see the Project Plans for special details.
3. For dike positioning with MGS installations, see Revised Standard Plan RSP A77N4.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM TYPICAL LINE POST EMBEDMENT AND HINGE POINT OFFSET DETAILS

NO SCALE

RSP A77N3 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77N3
DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	49	62

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

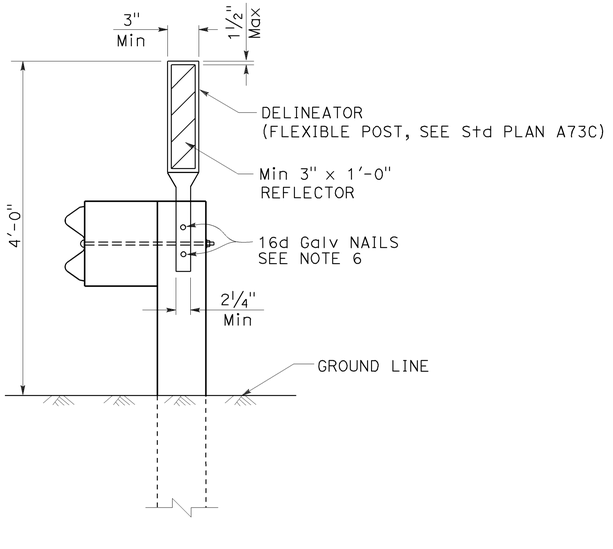
July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-4-16

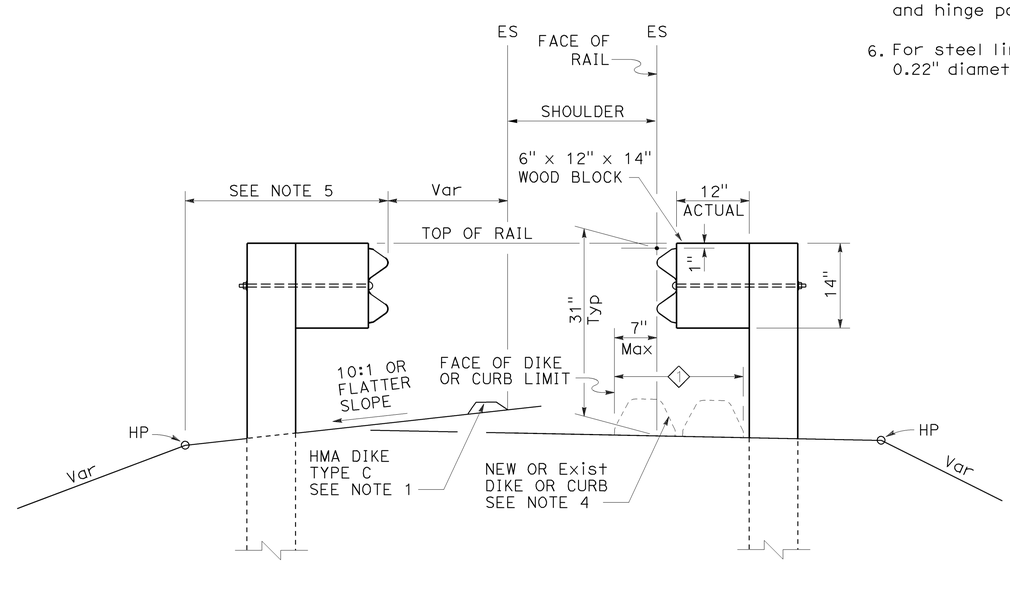
NOTES:

1. When necessary to place dike more than 7" in front of face of MGS, only Type C dike may be used. For dike details, see Revised Standard Plan RSP A87B.
2. For standard railing post embedment, see Revised Standard Plan RSP A77N3.
3. MGS delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under MGS, the maximum height of the dike or curb shall be 6". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and RSP A87B.
5. For details of typical distance between the face of rail and hinge point, see Revised Standard Plan RSP A77N3.
6. For steel line posts, use 1/4 - 20 self-tapping screws in 0.22" diameter holes or 1/4" bolts in 9/32" diameter holes.



MGS DELINEATION

See Note 3



DIKE POSITIONING

See Note 1

◇1 PERMISSIBLE DIKE OR CURB PLACEMENT AREA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM TYPICAL RAILING DELINEATION AND DIKE POSITIONING DETAILS

NO SCALE

RSP A77N4 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N4

2010 REVISED STANDARD PLAN RSP A77N4

7-10-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	50	62

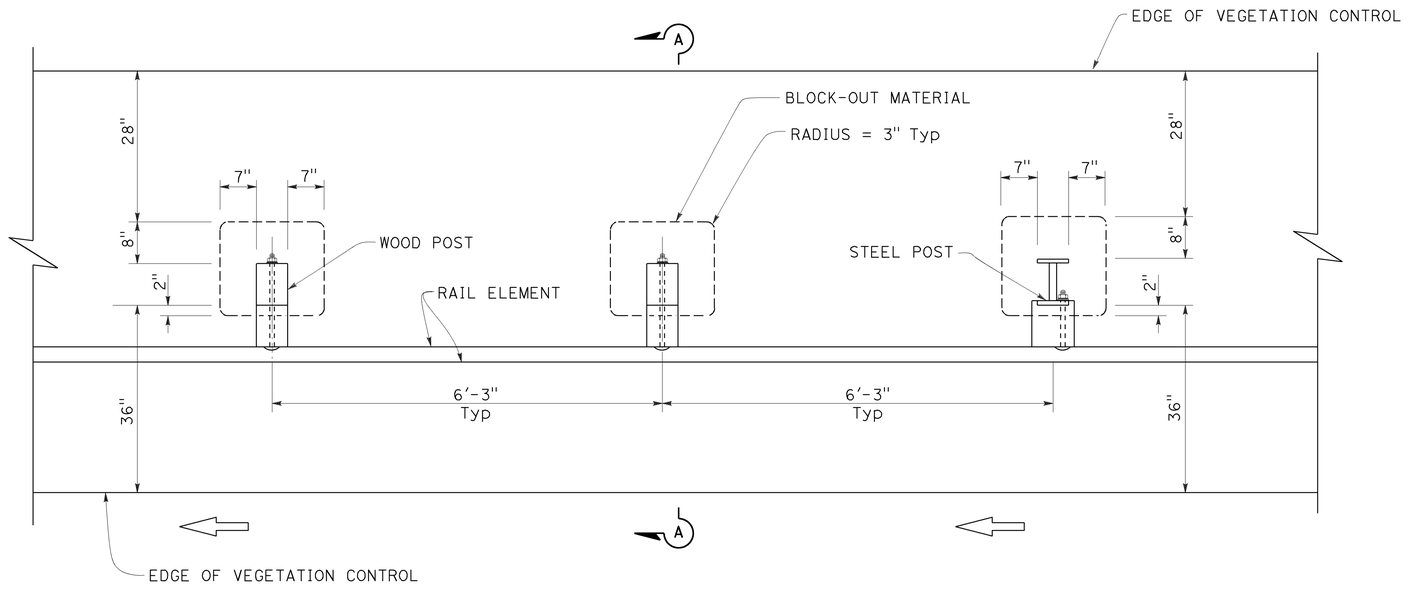
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

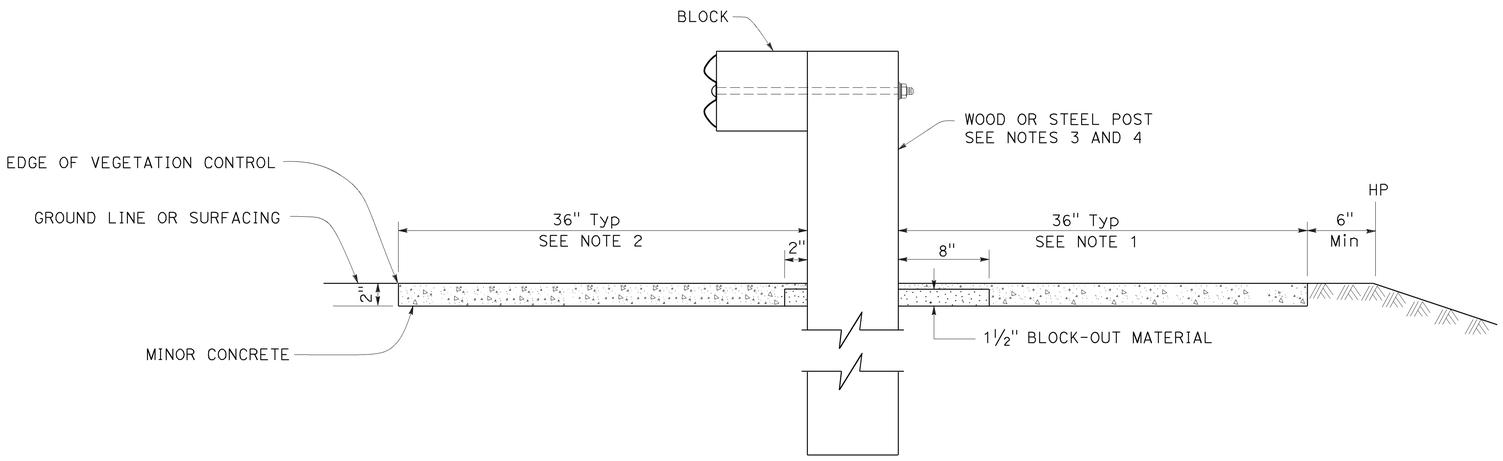
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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 4-4-16



PLAN



SECTION A-A

NOTES:

1. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.
3. For wood post sizes, see Revised Standard Plan RSP A77N1.
4. For steel post sizes, see Revised Standard Plan RSP A77N2.
5. For details not shown, see Revised Standard Plans RSP A77L1 and RSP A77L2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
TYPICAL VEGETATION CONTROL
STANDARD RAILING SECTION

NO SCALE

RSP A77N5 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N5

2010 REVISED STANDARD PLAN RSP A77N5

7-3-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	51	62

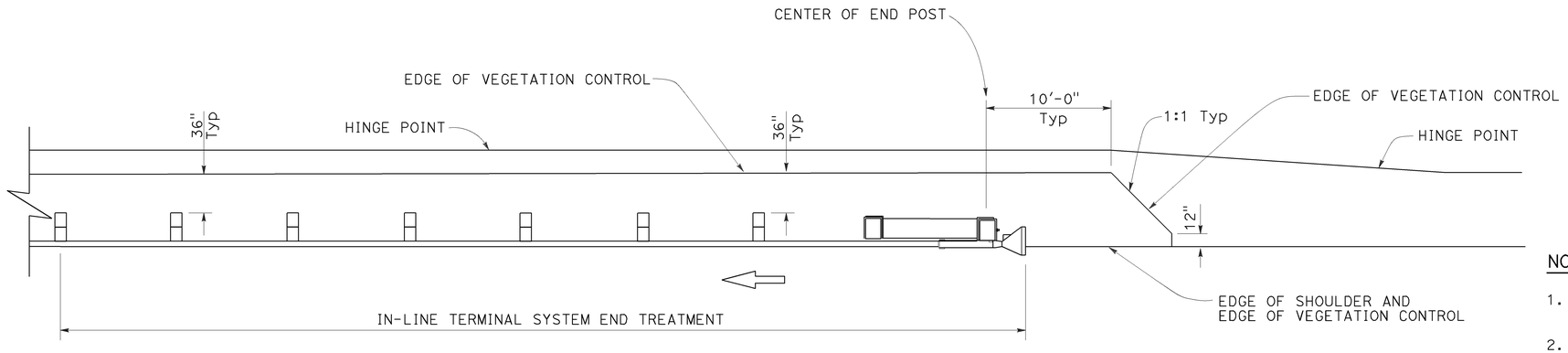
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

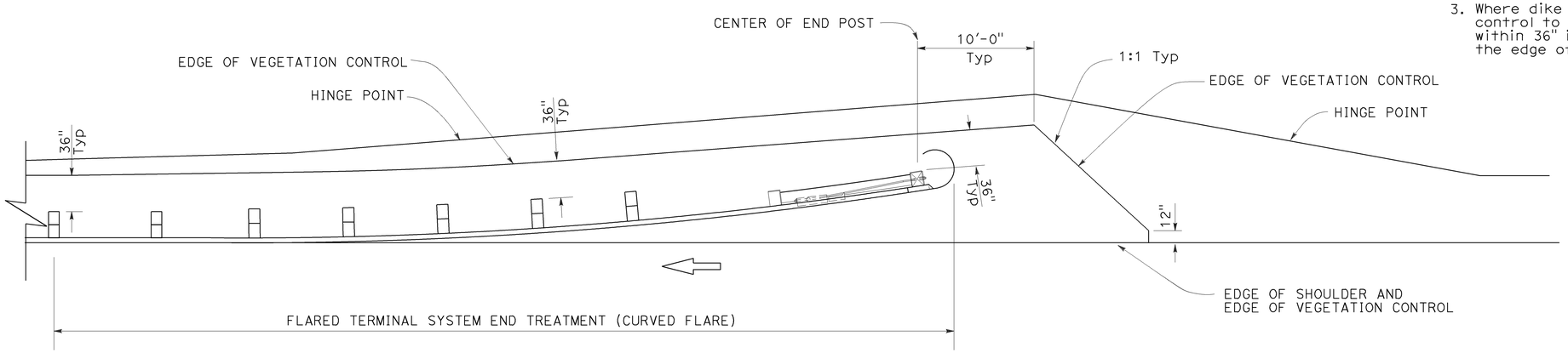
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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.

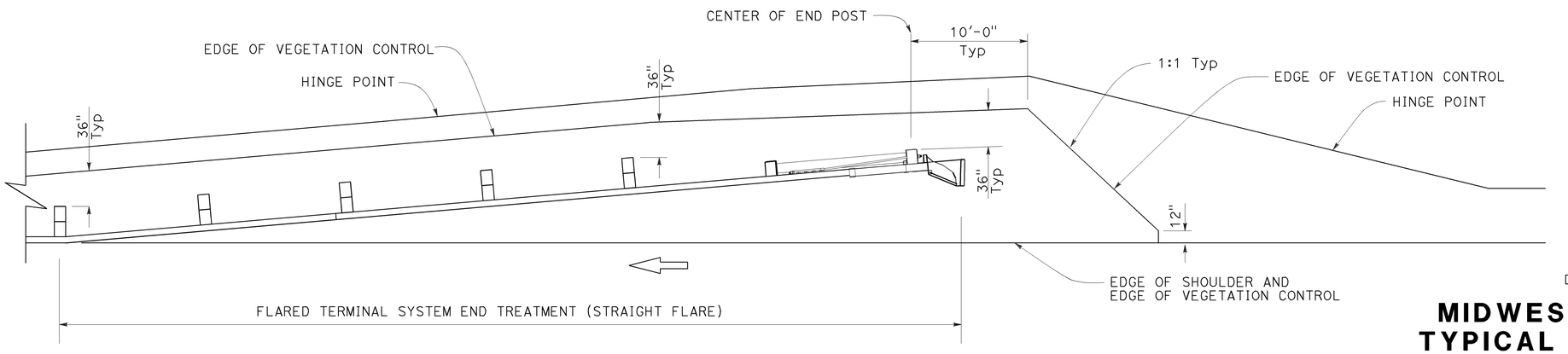
TO ACCOMPANY PLANS DATED 4-4-16



PLAN



PLAN



PLAN

NOTES:

1. See Revised Standard Plan RSP A77N5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM TYPICAL VEGETATION CONTROL FOR TERMINAL SYSTEM END TREATMENTS

NO SCALE

RSP A77N6 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N6

2010 REVISED STANDARD PLAN RSP A77N6

6-12-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	52	62

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

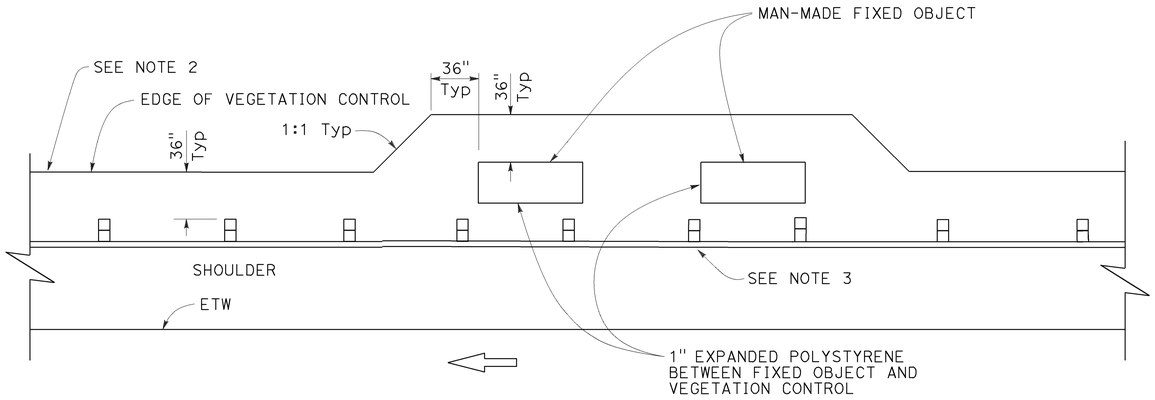
July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-4-16

NOTES:

1. See Revised Standard Plan RSP A77N5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.



PLAN

Fixed object(s) on shoulder

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
TYPICAL VEGETATION CONTROL AT FIXED OBJECT

NO SCALE

RSP A77N8 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N8

2010 REVISED STANDARD PLAN RSP A77N8

6-12-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	53	62

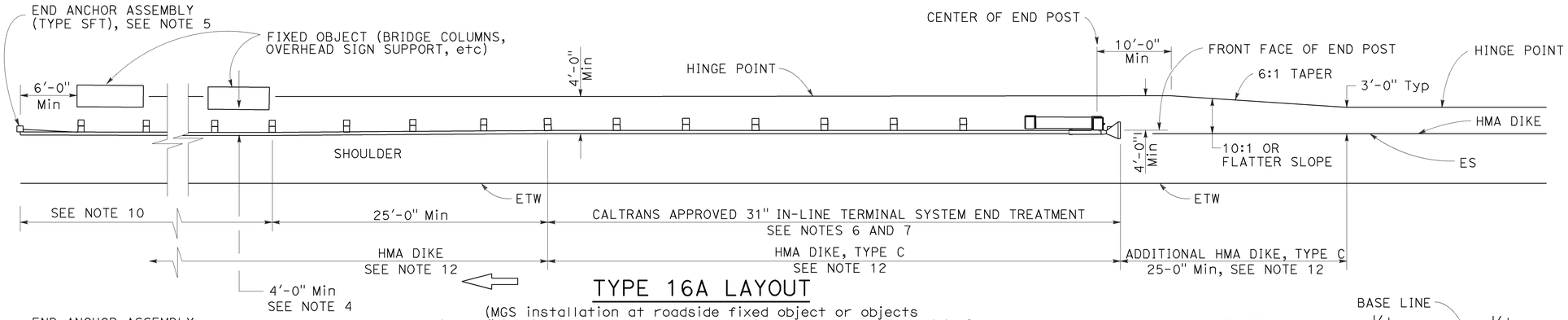
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

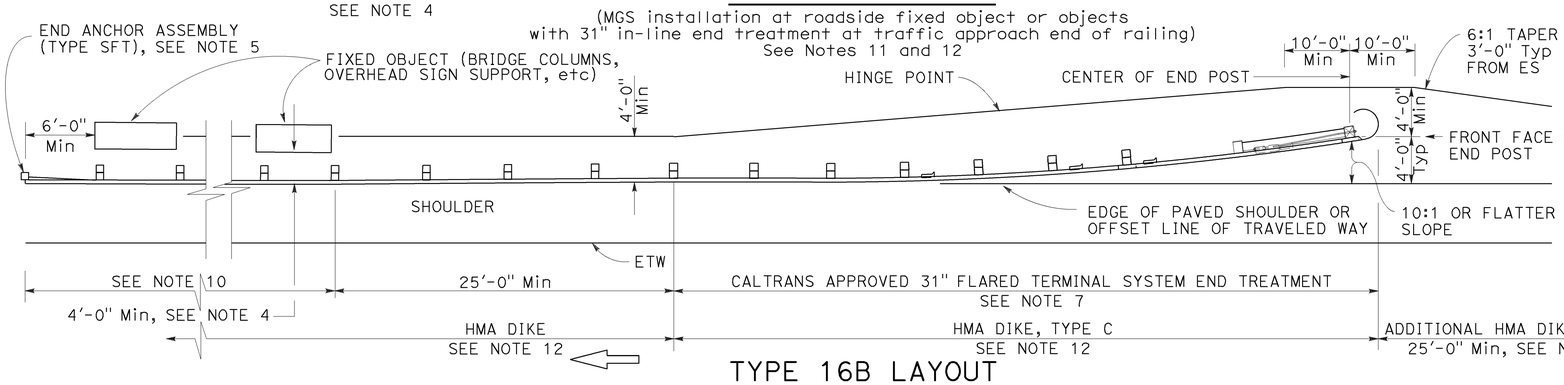
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 4-4-16



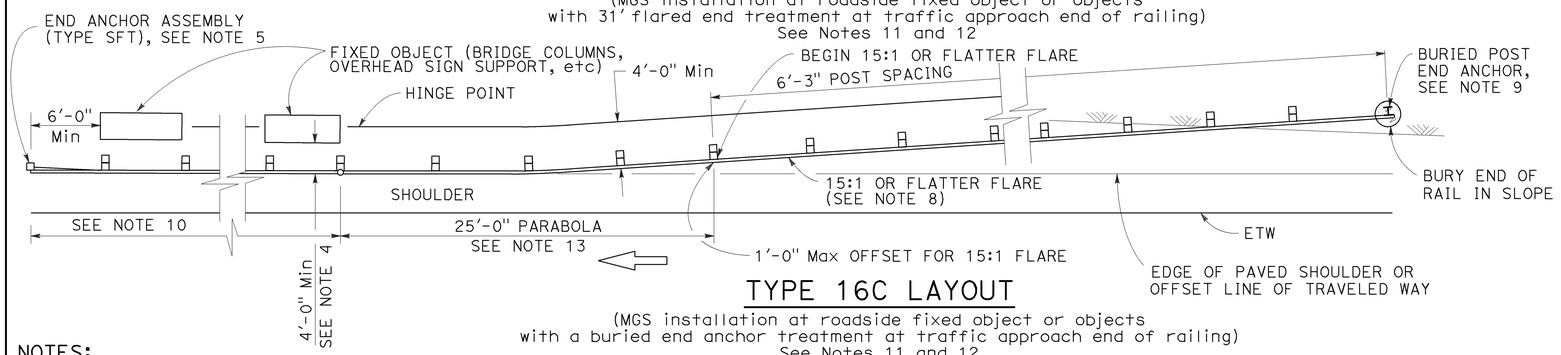
TYPE 16A LAYOUT

(MGS installation at roadside fixed object or objects with 31" in-line end treatment at traffic approach end of railing)
See Notes 11 and 12



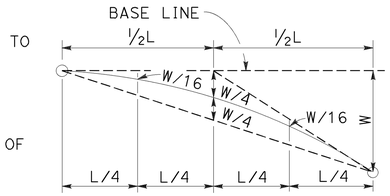
TYPE 16B LAYOUT

(MGS installation at roadside fixed object or objects with 31' flared end treatment at traffic approach end of railing)
See Notes 11 and 12

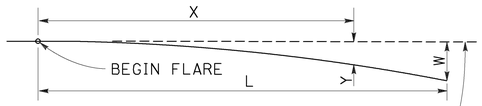


TYPE 16C LAYOUT

(MGS installation at roadside fixed object or objects with a buried end anchor treatment at traffic approach end of railing)
See Notes 11 and 12



TYPICAL PARABOLIC LAYOUT

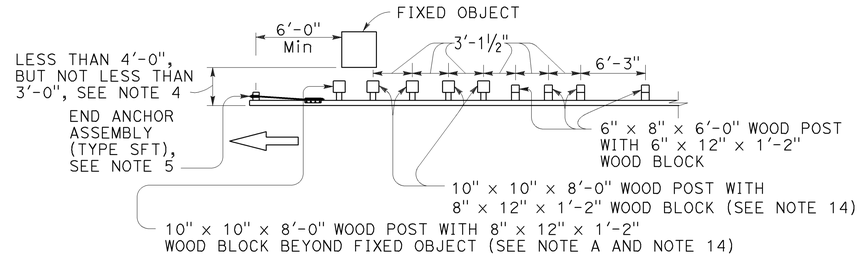


BASE LINE (EDGE OF PAVED SHOULDER OR OFFSET LINE OF EDGE OF TRAVELED WAY)

$$Y = \frac{WX^2}{L^2}$$

Y = OFFSET FROM BASE LINE
W = MAXIMUM OFFSET
X = DISTANCE ALONG BASE LINE
L = LENGTH OF FLARE

PARABOLIC FLARE OFFSETS



NOTE A: For a series of fixed objects (bridge columns, overhead sign supports, etc.) additional 10" x 10" x 8'-0" wood post with 8" x 12" x 1'-2" wood blocks at 3'-1½" center to center spacing are to be used between fixed objects.

STRENGTHENED MIDWEST GUARDRAIL SYSTEM SECTIONS FOR FIXED OBJECT

Use strengthened MGS sections with Types 16A, 16B or 16C layouts where minimum clearance between the face of the railing and fixed object(s) is less than 4'-0", but not less than 3'-0". See Note 4

NOTES:

1. Line post, blocks and hardware to be used are shown on Revised Standard Plans RSP A77L1, RSP A77L2, RSP A77M1, RSP A77N1 and RSP A77N2.
2. MGS post spacing to be 6'-3" center to center, except as otherwise noted.
3. Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 12" x 1'-2" wood blocks. W6 x 8.5 or W6 x 9 steel posts, 6'-0" in length, with 6" x 12" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood line posts with 6" x 12" x 1'-2" wood blocks where applicable and when specified.
4. A 4'-0" minimum clearance is required between the face of the railing and the face of a fixed object located directly behind MGS sections with post spacing of 6'-3". Construct MGS as shown in the detail "Strengthened Midwest Guardrail System Sections for Fixed Object" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 4'-0", but not less than 3'-0". Where the clearance is less than 3'-0", a concrete wall or barrier should be constructed to shield the fixed object(s).
5. For End Anchor Assembly (Type SFT) details, see Revised Standard Plan RSP A77S1.
6. 31" in-line terminal system end treatments are used where site conditions will not accommodate a 31" flared end treatment.
7. The type of 31" terminal system to be used will be shown on the Project Plans.
8. The 15:1 or flatter flare used with Type 16C Layout is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of MGS within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
9. For details of the Buried Post End Anchor used with Type 16C Layout, see Revised Standard Plan RSP A77T2.
10. As site conditions dictate, construct additional MGS to shield fixed object(s). Additional MGS length equal to multiples of 12'-6". Post spacing at 6'-3" except as specified in Note 4.
11. Layout Types 16A, 16B or 16C are typically used where MGS is recommended to shield roadside fixed object(s) and a crashworthy 31" end treatment is required for only one direction of traffic.
12. Where placement of dike is required with MGS, see Revised Standard Plan RSP A77N4 for dike positioning details.
13. For typical flare offsets for 25'-0" length parabola with maximum offset of 1'-0", see Revised Standard Plan RSP A77P1.
14. W6 x 15 steel post, 8'-0" in length, with 8" x 12" x 1'-2" notched wood block or notched recycled plastic blocks may be used in place of the 10" x 10" x 8'-0" wood post with 8" x 12" x 1'-2" wood block shown in the detail "Strengthened Midwest Guardrail System Sections for Fixed Object".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE

RSP A77R3 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77R3

2010 REVISED STANDARD PLAN RSP A77R3

6-20-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	54	62

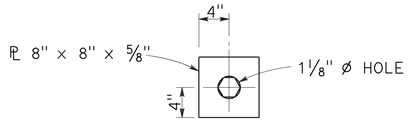
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

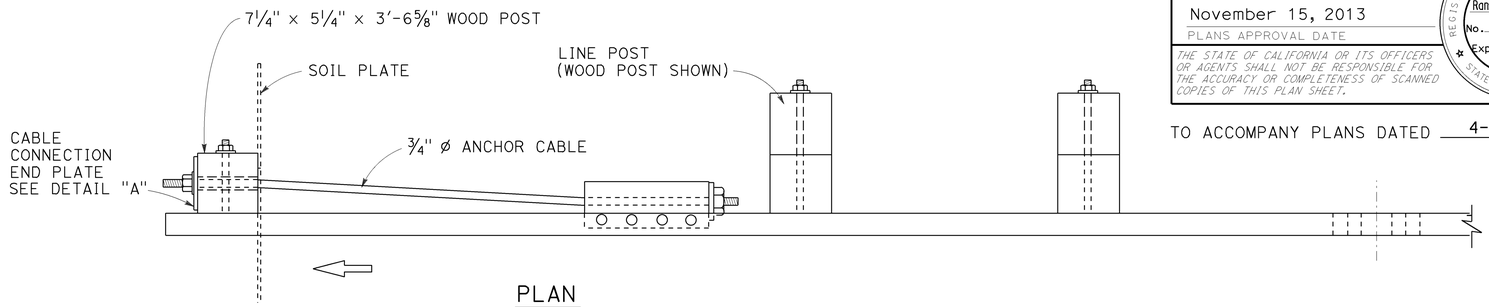
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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.

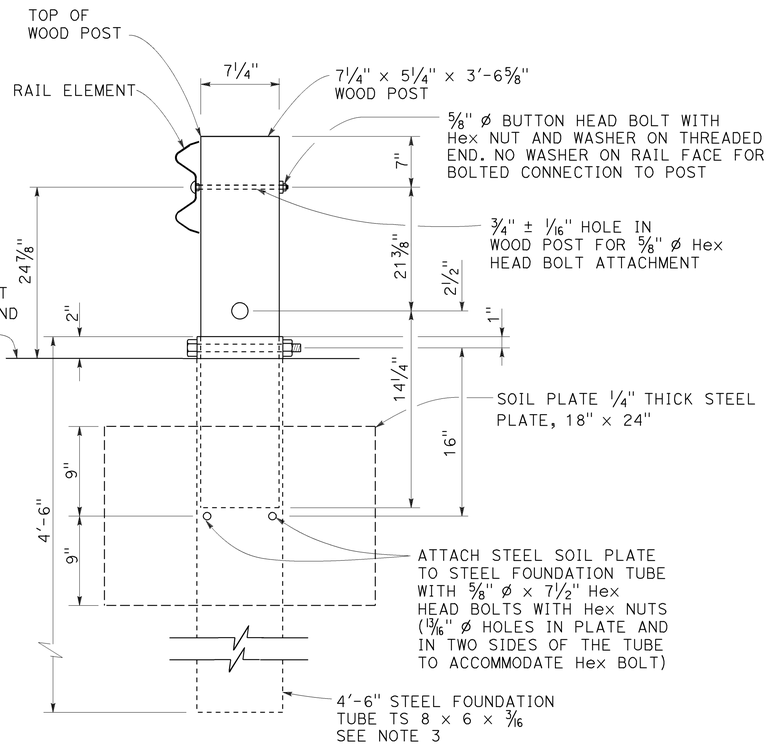
TO ACCOMPANY PLANS DATED 4-4-16



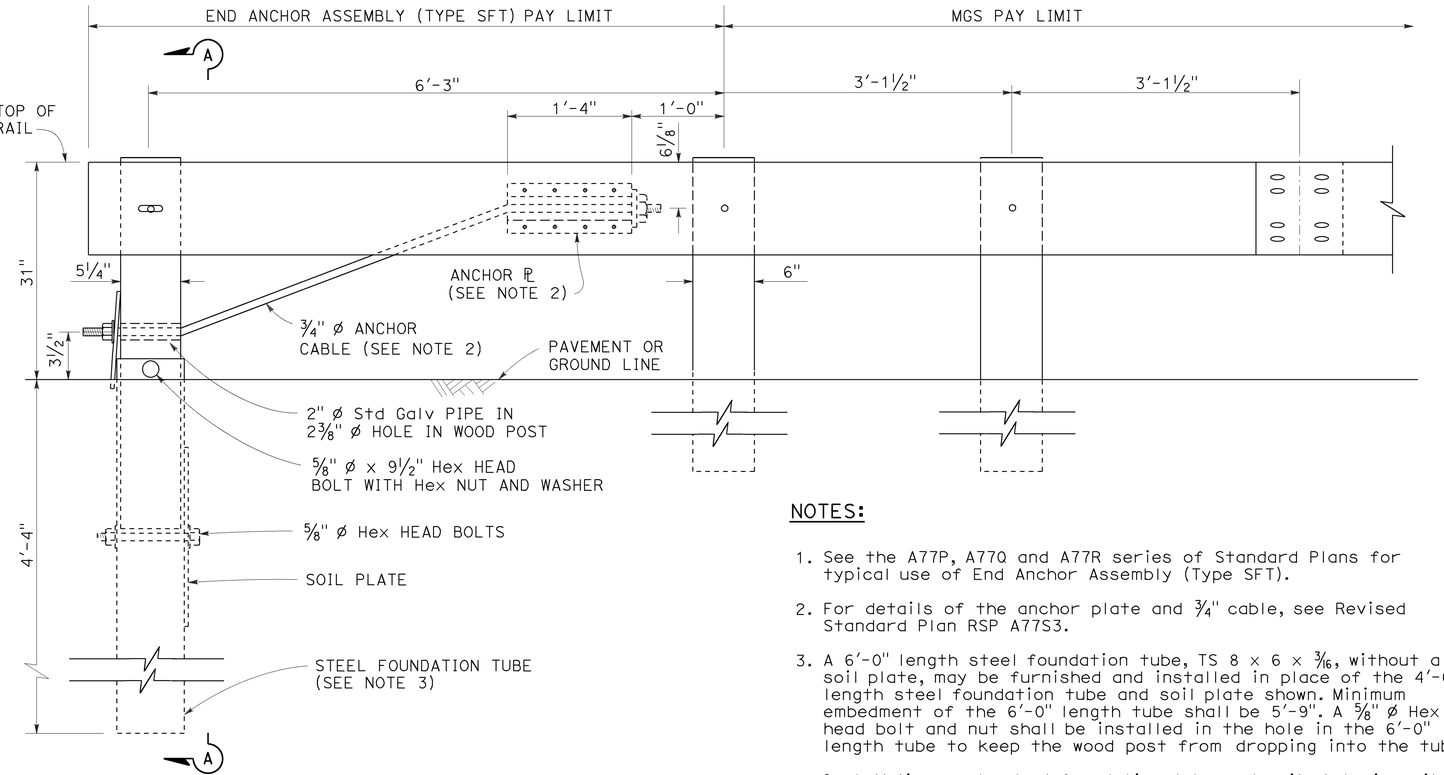
DETAIL "A"
CABLE CONNECTION
END PLATE



PLAN



SECTION A-A



ELEVATION

END ANCHOR
ASSEMBLY (TYPE SFT)
See Note 1

NOTES:

1. See the A77P, A77Q and A77R series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4" cable, see Revised Standard Plan RSP A77S3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/16, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" ø Hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Install line post, steel foundation tube and soil plate in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
END ANCHOR ASSEMBLY
(TYPE SFT)

NO SCALE

RSP A77S1 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77S1
DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77S1

2010 REVISED STANDARD PLAN RSP A77S1

10-4-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	55	62

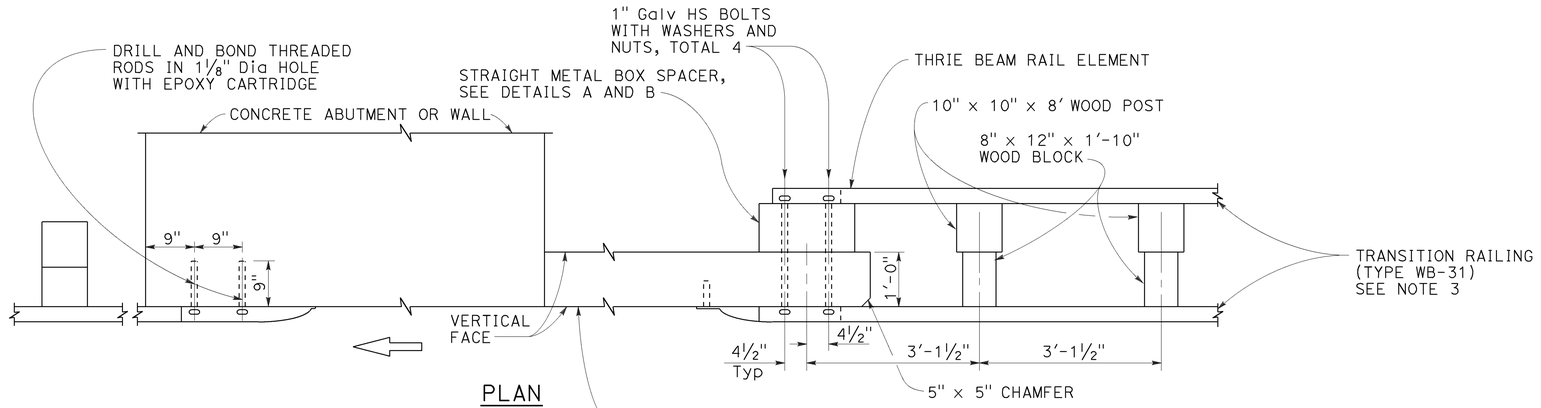
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

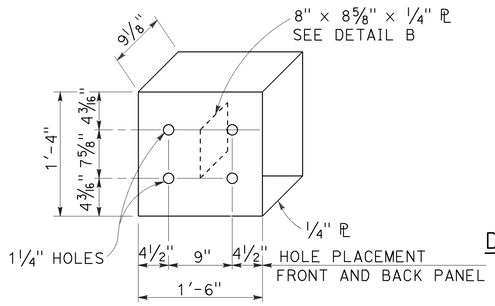
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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.

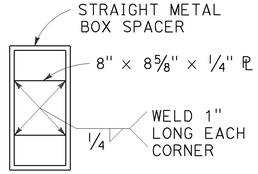
TO ACCOMPANY PLANS DATED 4-4-16



MIDWEST GUARDRAIL SYSTEM CONNECTION TO ABUTMENT OR WALL

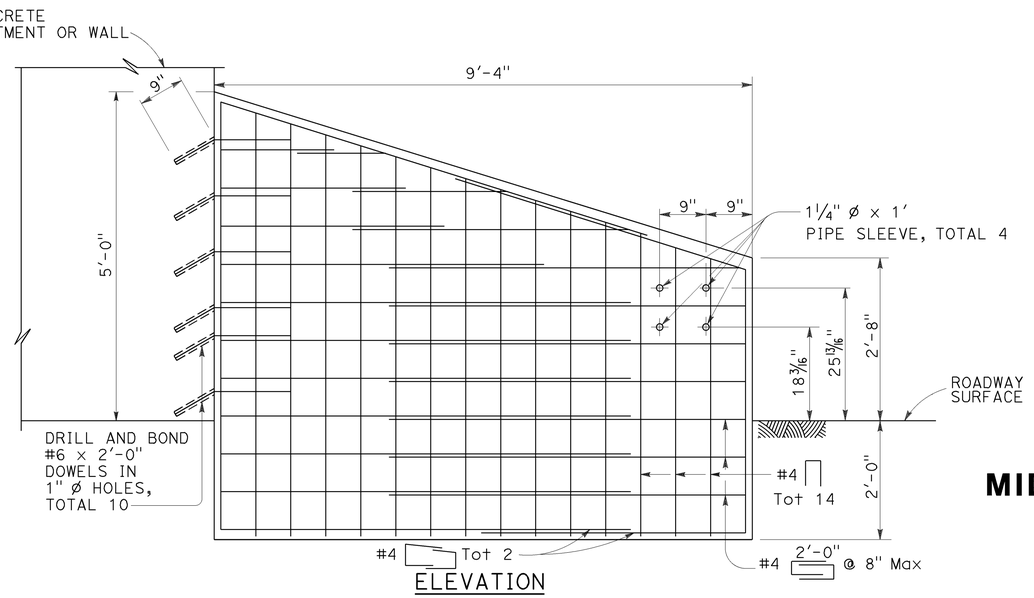


DETAIL A



DETAIL B

STRAIGHT METAL BOX SPACER



ELEVATION

ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION

DETAIL C

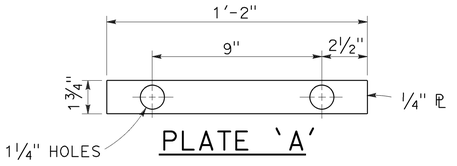


PLATE 'A'

NOTES:

1. These connection details apply to abutments and walls.
2. Additional details of posts, blocks and hardware are shown on Revised Standard Plans RSP A77M1, RSP A77N1 and RSP A77N2.
3. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested thrie beam railingsection which is connected to the concrete anchor block.
4. For typical use of Connection Details DD, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1 and Layout Types 12C and 12D on Revised Standard Plan RSP A77Q2.
5. For typical use of Connection Detail EE, see Layout Type 12D on Revised Standard Plan RSP A77Q2 and Layout Type 12DD on Revised Standard Plan RSP A77Q5.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO ABUTMENTS AND WALLS

NO SCALE

RSP A77U3 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U3

2010 REVISED STANDARD PLAN RSP A77U3

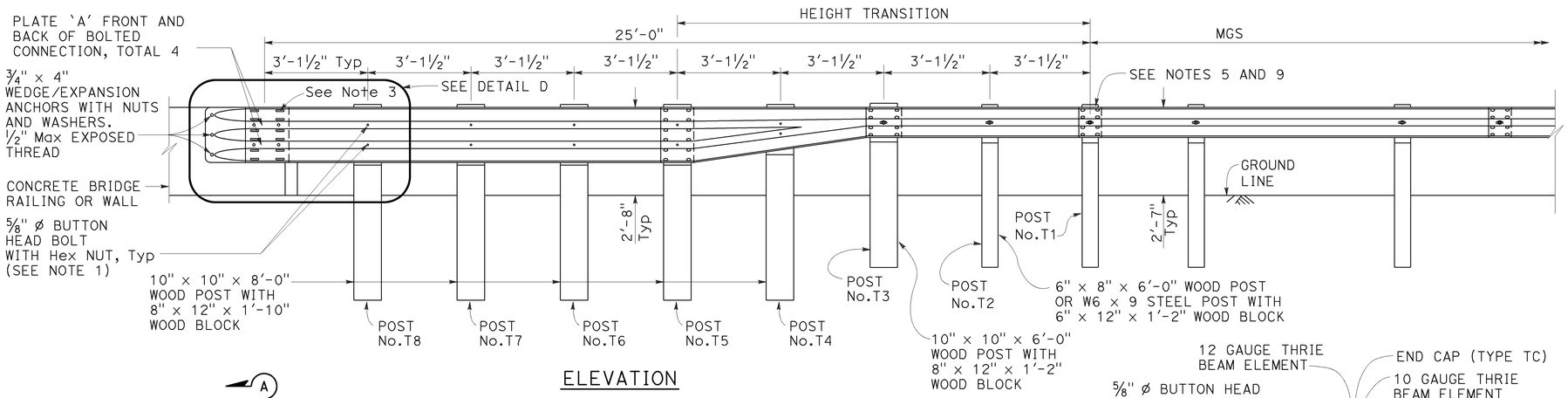
7-8-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	56	62

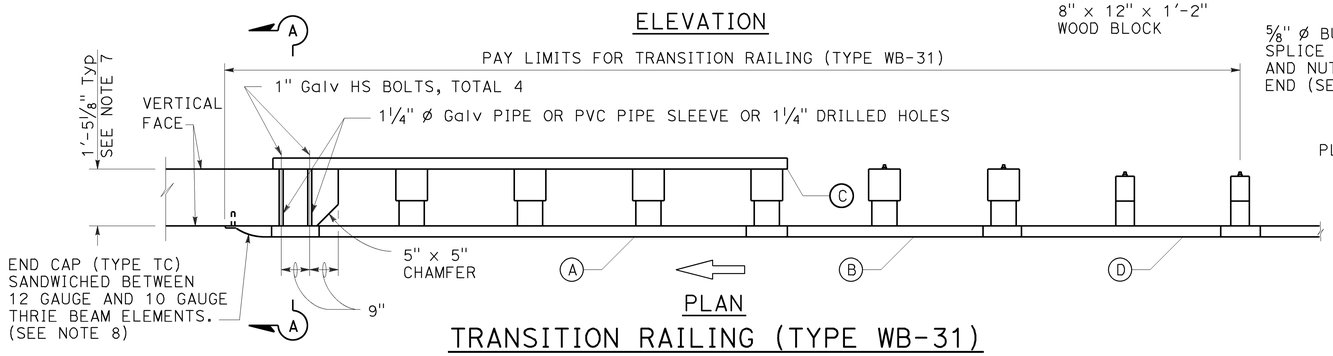
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

January 23, 2015
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Randell D. Hiatt — No. C50200 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA



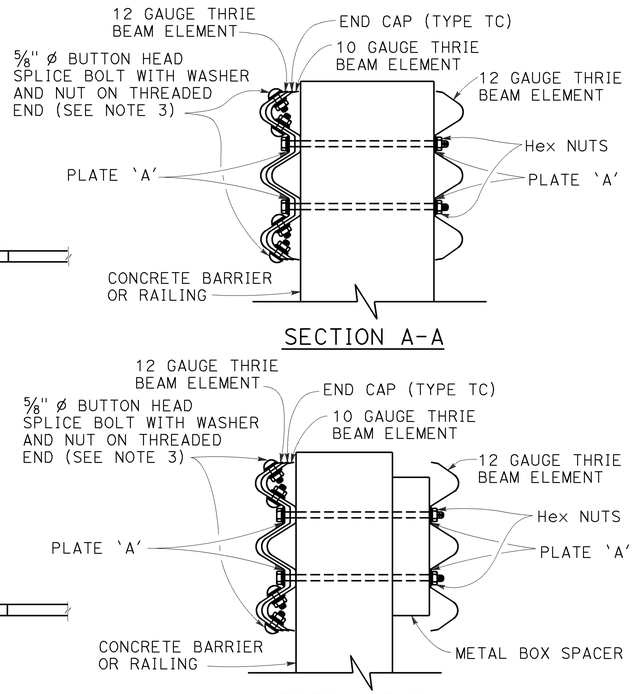
ELEVATION



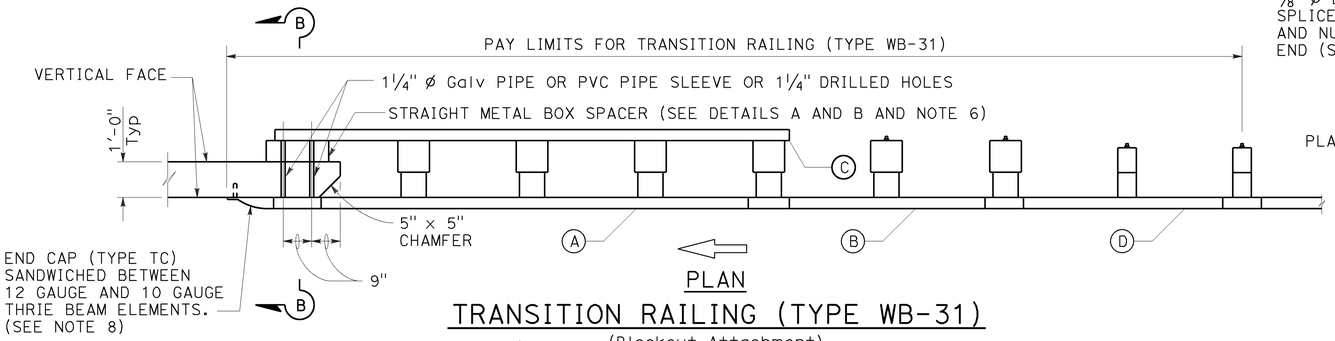
PLAN

TRANSITION RAILING (TYPE WB-31)

(No Blockout Attachment)



SECTION A-A

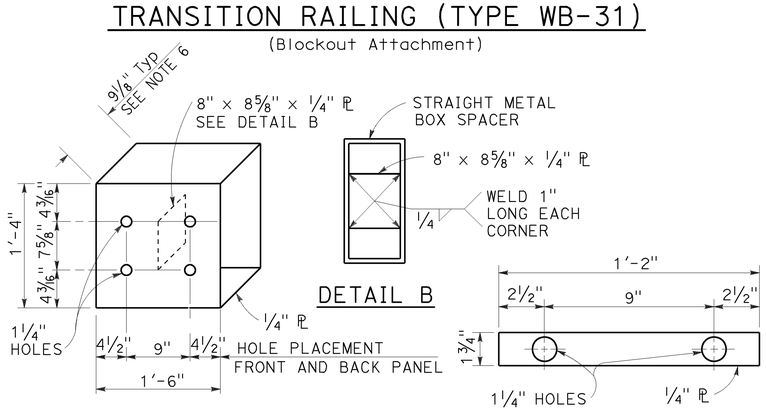


PLAN

TRANSITION RAILING (TYPE WB-31)

(Blockout Attachment)

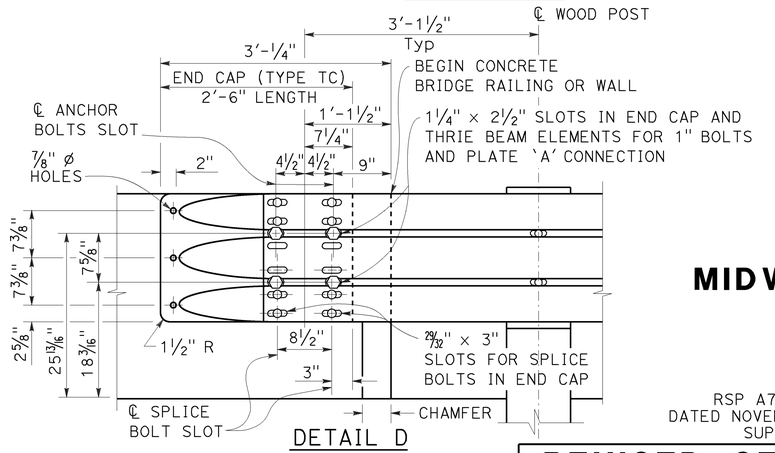
SECTION B-B



DETAIL A

DETAIL B

DETAIL C



DETAIL D

STRAIGHT METAL BOX SPACER

PLATE 'A'

LEGEND:

- (A) NESTED THRIE BEAM ELEMENTS (ONE 12 GAUGE ELEMENT NESTED OVER ONE 10 GAUGE ELEMENT).
- (B) ONE ASYMMETRICAL 10 GAUGE "W" BEAM TO THRIE BEAM ELEMENT.
- (C) ONE 12 GAUGE THRIE BEAM ELEMENT.
- (D) ONE 10 GAUGE "W" BEAM RAIL ELEMENT (7'-3½"LENGTH)

10 GAUGE = 0.138" THICK
12 GAUGE = 0.108" THICK

NOTES: TO ACCOMPANY PLANS DATED 4-4-16

1. Use ⅝" ø Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
2. The nested rail elements, end cap, and 'W' beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
3. Exterior splice bolt holes for rail element splices at Post No. T5 and the connection to the concrete barrier or railing shall be the standard 29/32" x 1⅛" slot size. Interior splice bolt holes at these locations may be increased up to 1¼" ø. Only the top 4 and the bottom 4 splice bolts with washers and nuts are required for rail splices at Post No. T5 and the connection to the concrete barrier or railing.
4. The top elevation of Posts No. T2 through No. T7 shall not project more than 1" above the top elevation of the rail element.
5. Typically, the railing connected to Transition Railing (Type WB-31) will be either standard railing section of MGS with height transition ratio of 150:1 or a Caltrans approved 31" end treatment attached to Post No. T1.
6. The depth of the metal box spacer varies from the 9⅛" to 1½" and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 21⅛". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1½", metal plates similar to Plate 'A' are to be used as spacers.
7. Where the width of the concrete railing or wall is greater than 17⅛", wood blocks are to be used to fill the space created between the backside of Posts No. T5 through No. T8 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
8. End cap may be installed over 12 gauge and 10 gauge thrie beam elements where transition railing is installed on the departure end of bridge railing.
9. Conform standard railing section height to 31" at Post No. T1 using height transition ratio of 150:1.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM TRANSITION RAILING (TYPE WB-31)

NO SCALE

RSP A77U4 DATED JANUARY 23, 2015 SUPERSEDES RSP A77U4 DATED NOVEMBER 15, 2013 AND RSP A77U4 DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U4

2010 REVISED STANDARD PLAN RSP A77U4

1-8-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	57	62

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2376
Old Renewal Date
2-28-15
Renewal Date
7-19-13
Date
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 4-4-16

A

AB	AGGREGATE BASE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALT CONCRETE
ACC	ARMOR-CLAD CONDUCTORS
Adj	ADJACENT/ADJUSTABLE
AIC	AUXILIARY IRRIGATION CONTROLLER
Alt	ALTERNATIVE
AMEND	AMENDMENT
ARV	AIR RELEASE VALVE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVB	ATMOSPHERIC VACUUM BREAKER

B

B&B	BALLED AND BURLAPPED
B/B	BRASS/BRONZE
B/B/PL	BRASS/BRONZE/PLASTIC
B/PL	BRASS/PLASTIC
BFM	BONDED FIBER MATRIX
Bit Ctd	BITUMINOUS COATED
BP	BOOSTER PUMP
BPA	BACKFLOW PREVENTER ASSEMBLY
BPE	BACKFLOW PREVENTER ENCLOSURE
BV	BALL VALVE

C

C	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CARV	COMBINATION AIR RELEASE VALVE
CB	COUPLING BAND
CCA	CAM COUPLER ASSEMBLY
CEC	CONTROLLER ENCLOSURE CABINET
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE
CL	CHAIN LINK
CNC	CONTROL AND NEUTRAL CONDUCTORS
Conc	CONCRETE
CP	COPPER PIPE
CS	COMPOST SOCK
CSP	CORRUGATED STEEL PIPE
CST	CENTER STRIP
CV	CHECK VALVE

D

Dia	DIAMETER
DIP	DUCTILE IRON PIPE
DIT	DRIP IRRIGATION TUBING
DG	DECOMPOSED GRANITE
DN	DIAMETER NOMINAL
DVA	DRIP VALVE ASSEMBLY

E

EC	EROSION CONTROL
ECTC	EROSION CONTROL TECHNOLOGY COUNCIL
Elect	ELECTRIC/ELECTRICAL
Elev	ELEVATION
ELL	ELBOW
ENCL	ENCLOSURE
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EST	END STRIP
ESTB	ESTABLISHMENT
ETW	EDGE OF TRAVELED WAY

F

F	FULL CIRCLE
F/P	FULL/PART CIRCLE
FCV	FLOW CONTROL VALVE
FERT	FERTILIZER
FG	FINISHED GRADE
FH	FLEXIBLE HOSE
FIPT	FEMALE IRON PIPE THREAD
FIS	FERTILIZER INJECTOR SYSTEM
FL	FLOW LINE
FR	FIBER ROLL
FS	FLOW SENSOR
FSC	FLOW SENSOR CABLE
FV	FLUSH VALVE

G

Galv	GALVANIZED
GARV	GARDEN VALVE
GARVA	GARDEN VALVE ASSEMBLY
GM	GRAVEL MULCH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE

H

H	HALF CIRCLE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER/HINGE POINT
HPL	HIGH PRESSURE LINE
Hwy	HIGHWAY

I

IC	IRRIGATION CONTROLLER
ICC	IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET
ID	INSIDE DIAMETER
IFS	IRRIGATION FILTRATION SYSTEM
IPS	IRON PIPE SIZE
IPT	IRON PIPE THREAD
Irr	IRRIGATION

L

L	LENGTH

M

Max	MAXIMUM
MBGR	METAL BEAM GUARD RAILING
MCV	MANUAL CONTROL VALVE
MIC	MASTER IRRIGATION CONTROLLER
Min	MINIMUM
MIPT	MALE IRON PIPE THREAD
Misc	MISCELLANEOUS
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

NCN	NO COMMON NAME
NL	NOZZLE LINE
No.	NUMBER
NPT	NATIONAL PIPE THREAD

O

O/C	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLAP

P

P	PART CIRCLE
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
Pkt	PACKET
PL	PLASTIC
PLS	PURE LIVE SEED
PLT	PLANT/PLANTING
PLT ESTB	PLANT ESTABLISHMENT
PM	POST MILE
PR	PRESSURE RATED
PRLV	PRESSURE RELIEF VALVE
PRV	PRESSURE REGULATING VALVE
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Q	QUARTER CIRCLE
QCV	QUICK COUPLING VALVE

R

R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCV	REMOTE CONTROL VALVE
RCVM	REMOTE CONTROL VALVE (MASTER)
RCVMF	REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
RCVP	REMOTE CONTROL VALVE W/PRESSURE REGULATOR
RCW	RECYCLED WATER
RECP	ROLLED EROSION CONTROL PRODUCT
REQ	REQUIRED
RICS	REMOTE IRRIGATION CONTROL SYSTEM
R/W	RIGHT OF WAY

S

S	SLIP
SCH	SCHEDULE
SF	STATE-FURNISHED
Shld	SHOULDER
Sq	SQUARE
SST	SIDE STRIP
Sta	STATION
Std	STANDARD
SW	SIDEWALK/SOUND WALL

T

T	THIRD CIRCLE/THREAD
TLS	TRUCK LOADING STANDPIPE
TQ	THREE QUARTER CIRCLE
TRM	TURF REINFORCEMENT MAT
TT	TWO-THIRDS CIRCLE
TWSA	TREE WELL SPRINKLER ASSEMBLY
Typ	TYPICAL

U

UG	UNDERGROUND

W

W	WIDTH
W/	WITH
WM	WATER METER
WS	WYE STRAINER
WSA	WYE STRAINER ASSEMBLY
WSP	WELDED STEEL PIPE
WWM	WELDED WIRE MESH

NOTE:
For additional abbreviations, see Standard Plans A10A and A10B.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL ABBREVIATIONS

NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1
DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

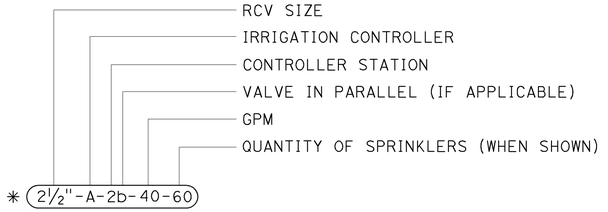
REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

6-28-13

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
	FS	FLOW SENSOR (FS)
X	X	MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC) IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR) IRRIGATION CONTROLLER (IC) (TWO WIRE)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
acc	ACC	ARMOR-CLAD CONDUCTORS (ACC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		IRRIGATION CONDUIT
		IRRIGATION SLEEVE
dip	DIP	DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (SUPPLY LINE) (LATERAL)
cp	CP	COPPER PIPE (SUPPLY LINE)
dit	DIT	DRIP IRRIGATION TUBING
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
P	P	REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP)
		EXISTING MANUAL CONTROL VALVE (MCV)
V	V	DRIP VALVE ASSEMBLY (DVA)
Y	Y	WYE STRAINER ASSEMBLY (WSA)

EXISTING	NEW	ITEM DESCRIPTION
		GATE VALVE (GV)
		BALL VALVE (BV)
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		GARDEN VALVE ASSEMBLY (GARVA)
		PRESSURE REGULATING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		EXISTING NOZZLE LINE W/TURNING UNION
		EXISTING IRRIGATION SYSTEM
		EXISTING IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
3	3	SPRINKLER W/SPRINKLER PROTECTOR
	C	CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING
	FR	FIBER ROLL
	CS	COMPOST SOCK



VALVE CODE

* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	58	62

LICENSED LANDSCAPE ARCHITECT

July 15, 2016
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Vincent V. Ferrara 3859 — Registered — 9-30-17 Renewal Date — Date — 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 4-4-16

2010 REVISED STANDARD PLAN RSP H2

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL SYMBOLS

NO SCALE

RSP H2 DATED JULY 15, 2016 SUPERSEDES RSP H2 DATED NOVEMBER 15, 2013 AND RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H2

5-24-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	59	62

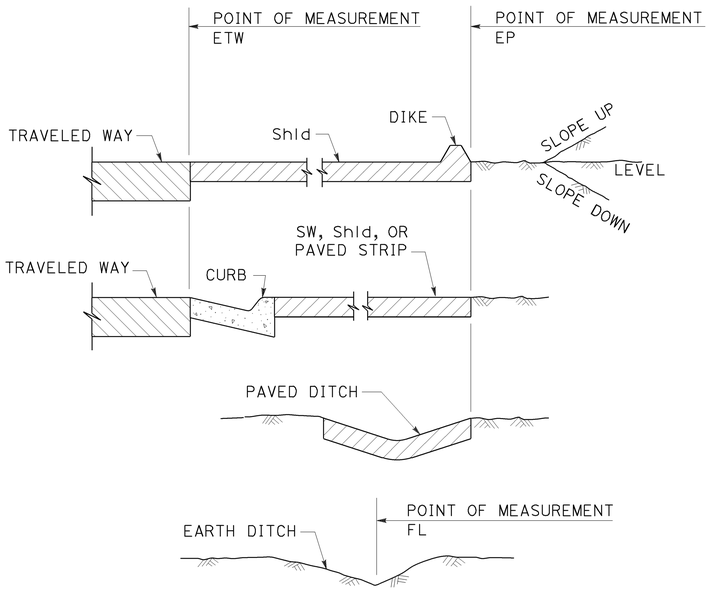
Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

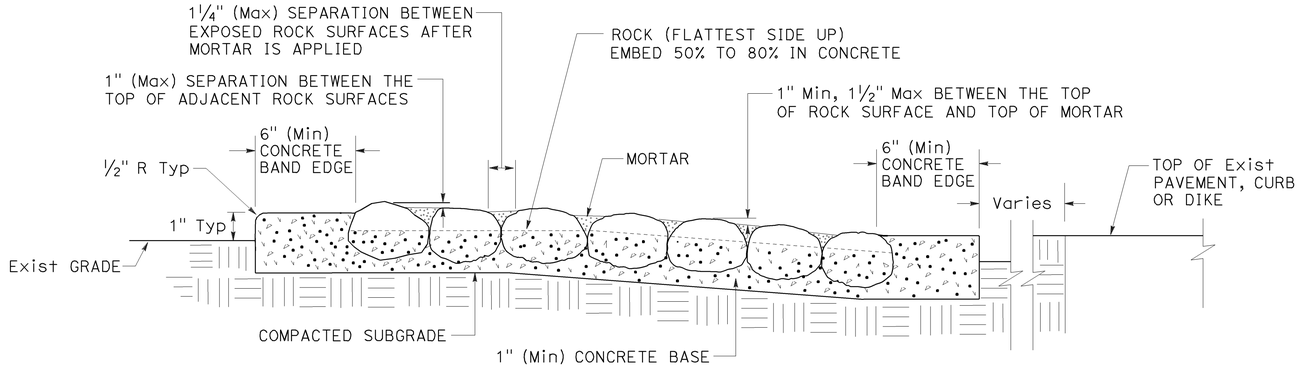
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2376
OLD
2-28-15
Renewal Date
7-19-13
Date
STATE OF CALIFORNIA

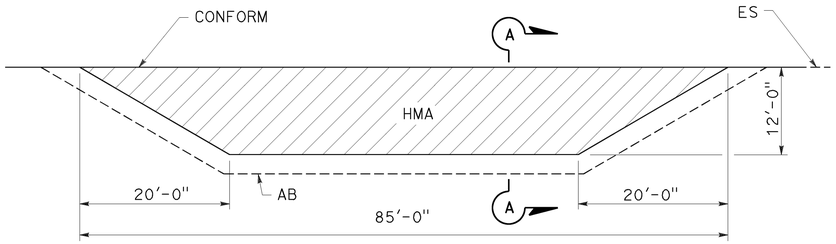
TO ACCOMPANY PLANS DATED 4-4-16



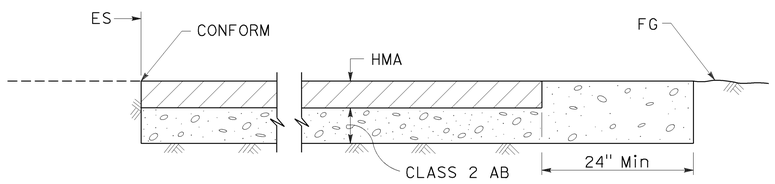
SECTION
POINTS OF MEASUREMENT



SECTION
ROCK BLANKET



PLAN



SECTION A-A
MAINTENANCE VEHICLE PULLOUT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9A

2010 REVISED STANDARD PLAN RSP H9A

6-21-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	60	62

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 4-4-16

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.

2010 REVISED STANDARD PLAN RSP T9

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

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	61	62

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 4-4-16

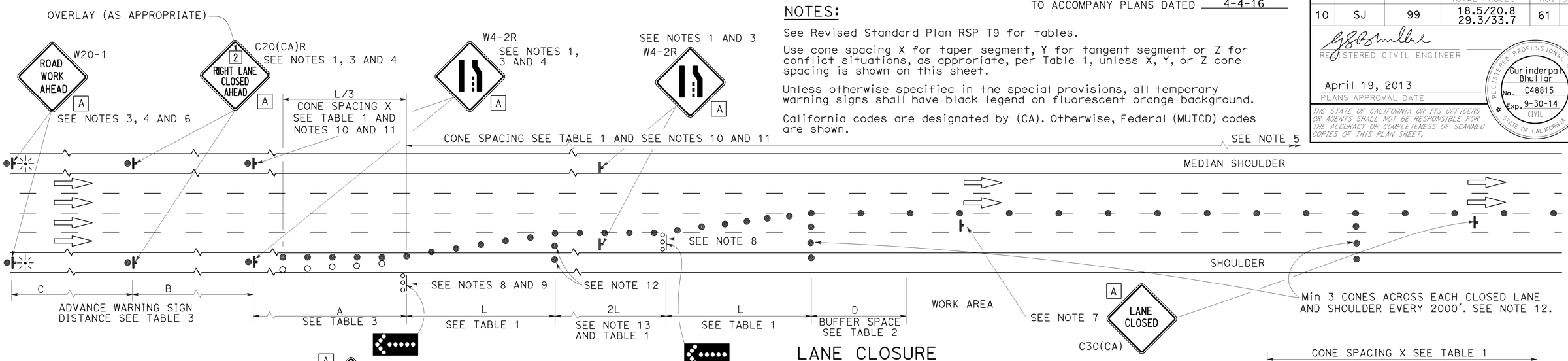
NOTES:

See Revised Standard Plan RSP T9 for tables.

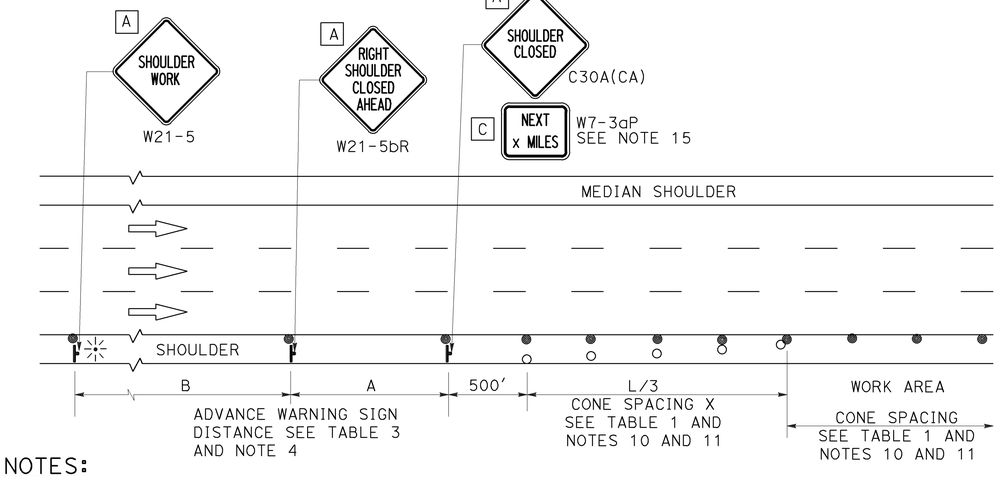
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

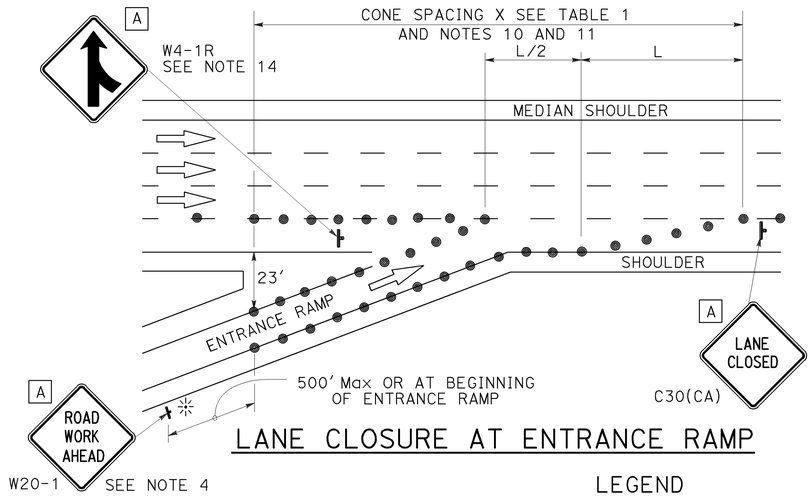
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

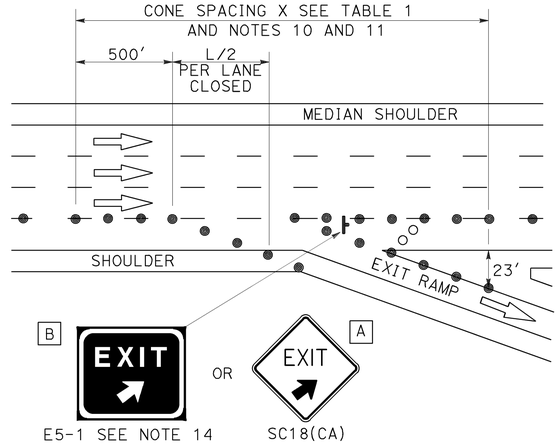


LANE CLOSURE





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.

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) 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

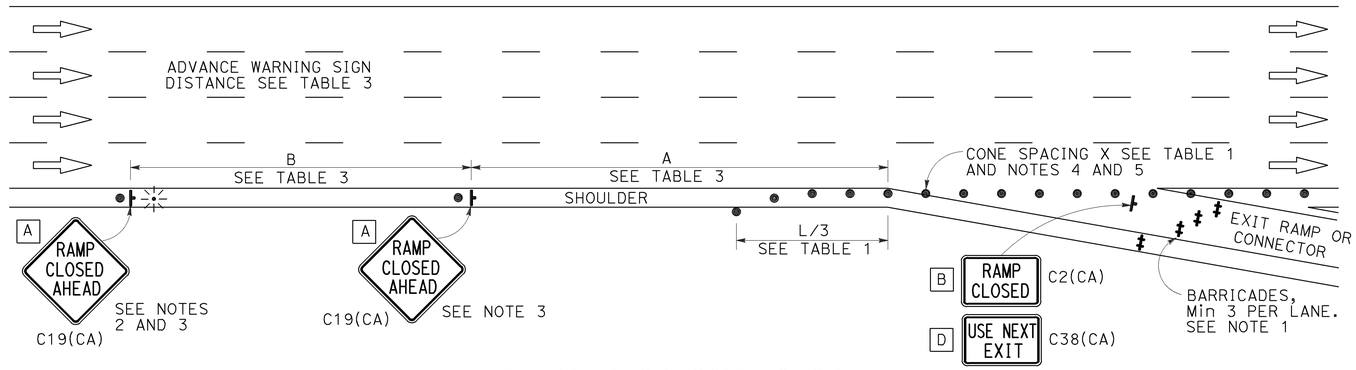
RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

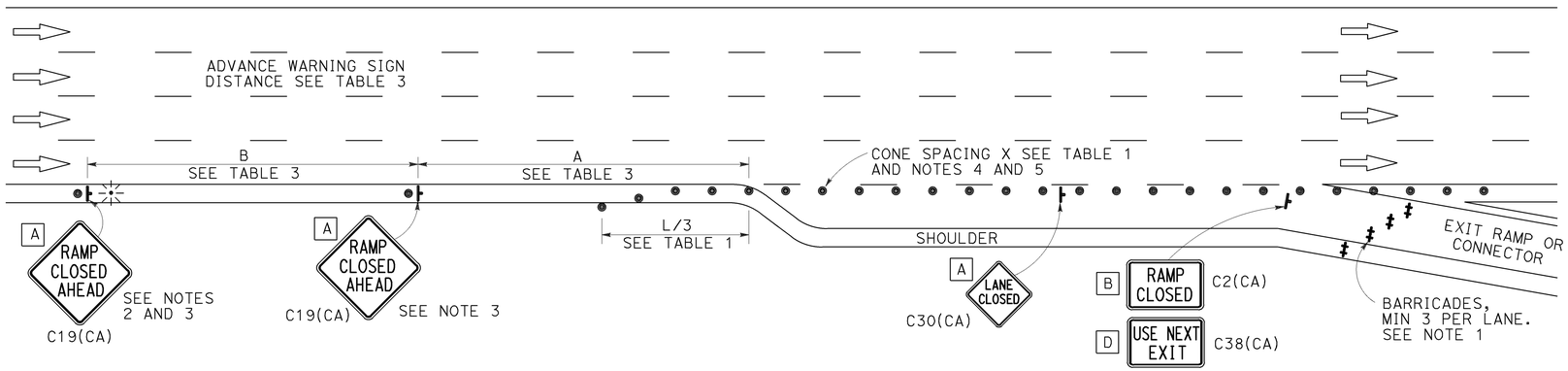
2010 REVISED STANDARD PLAN RSP T10

12-18-12

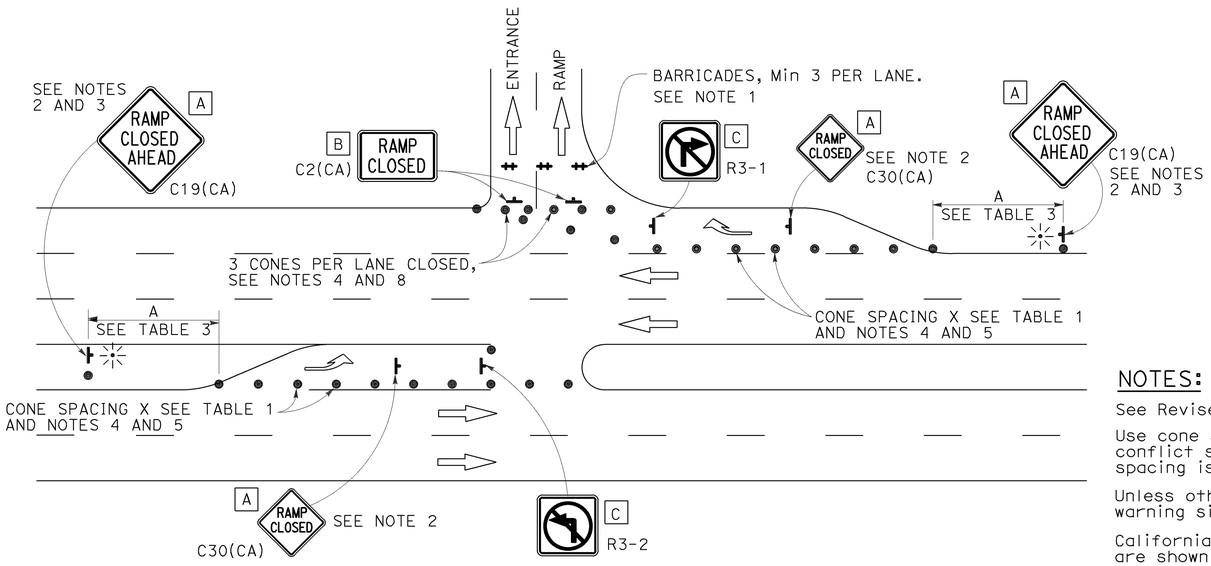
TYPICAL RAMP CLOSURES



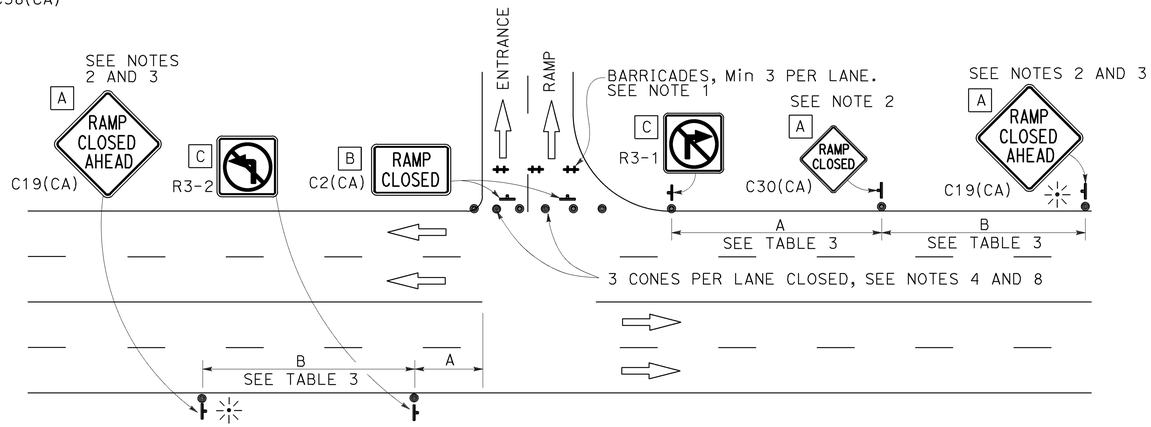
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

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

LEGEND

- ● TRAFFIC CONE
- ⊢ TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⁘ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	99	18.5/20.8 29.3/33.7	62	62

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 4-4-16

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" × 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp 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 ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

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

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12