

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ACNHPI-000C(371)E

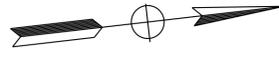
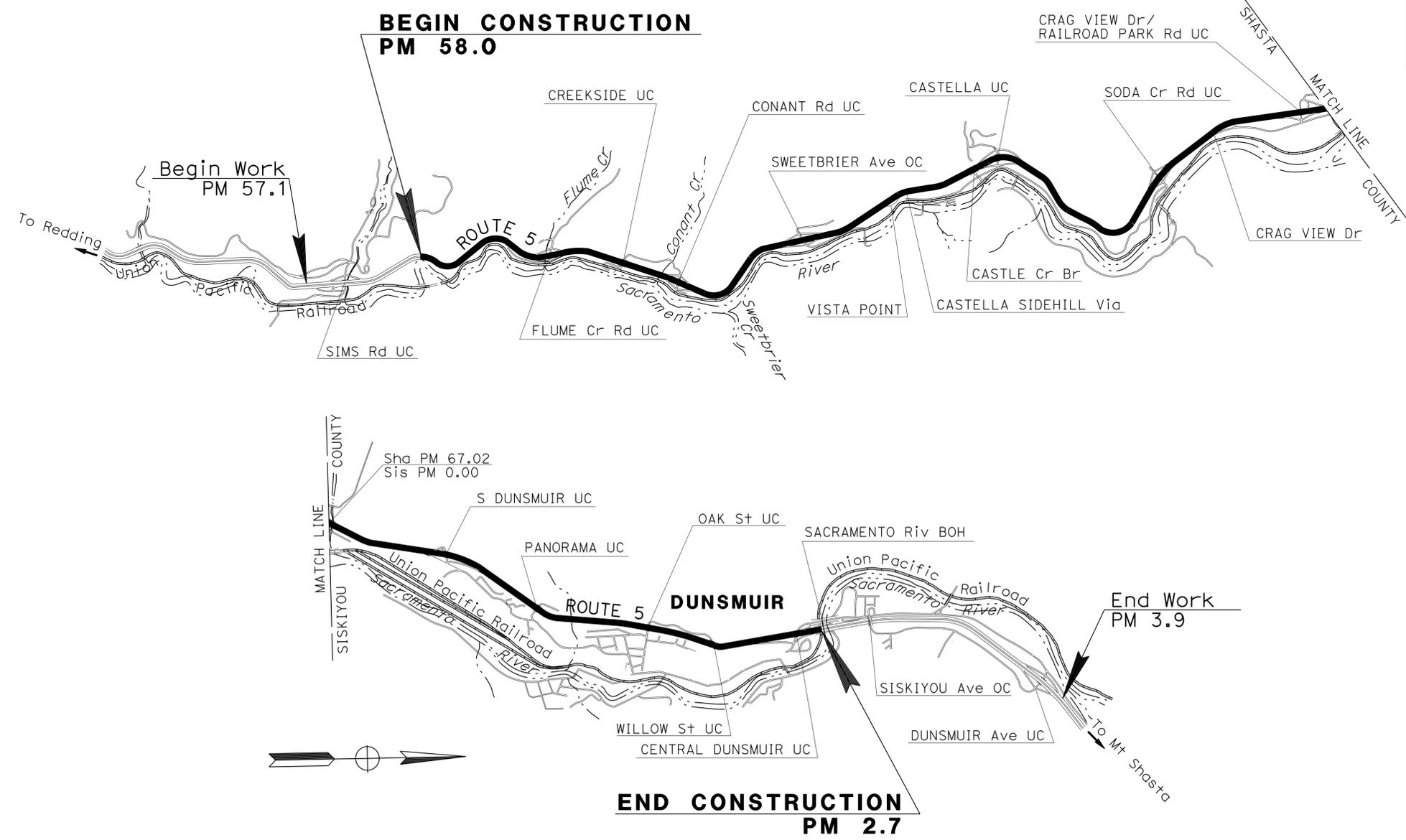
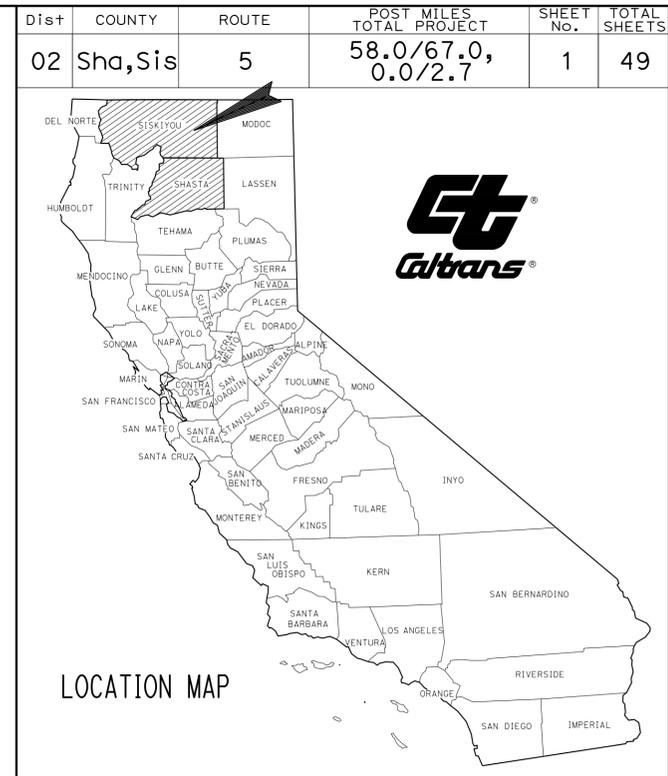
PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY
 IN SHASTA AND SISKIYOU COUNTIES FROM
 0.6 MILE NORTH OF SIMS UNDERCROSSING
 TO SACRAMENTO RIVER BRIDGE OVERHEAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
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2	TYPICAL CROSS SECTIONS
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16	PAVEMENT DELINEATION DETAILS
17-18	PAVEMENT DELINEATION DETAILS & QUANTITIES
19-20	SUMMARY OF QUANTITIES
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31-49	REVISED STANDARD PLANS

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



END CONSTRUCTION
 PM 2.7

NO SCALE

Michael A. Gower
 PROJECT ENGINEER DATE 02-03-14
 REGISTERED CIVIL ENGINEER



February 03, 2014
 PLANS APPROVAL DATE

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

CONTRACT No.	02-4G1604
PROJECT ID	0213000085

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

P:\proj\1\02\4G160\p\lans\pse\24g160ab001.dgn

PROJECT MANAGER	LANCE BROWN
DESIGN ENGINEER	LANCE BROWN

DATE PLOTTED => 13-FEB-2014
 TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0 0.0/2.7	2	49
			02-03-14	DATE	
			02-03-14	PLANS APPROVAL DATE	
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NOTES:

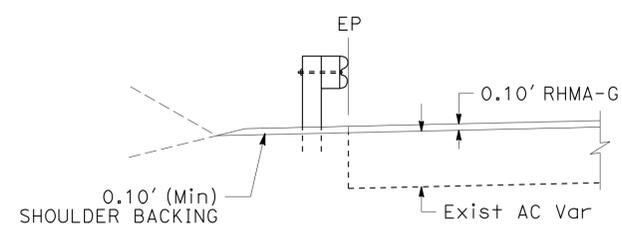
- DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- NO WORK ON BRIDGE DECKS.

ABBREVIATIONS:

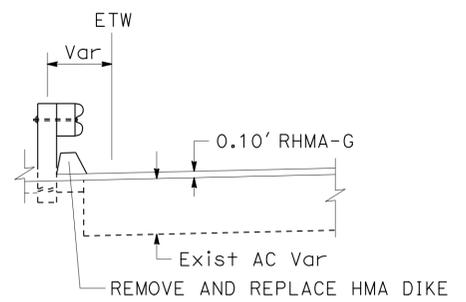
RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

PAVEMENT CLIMATE REGION

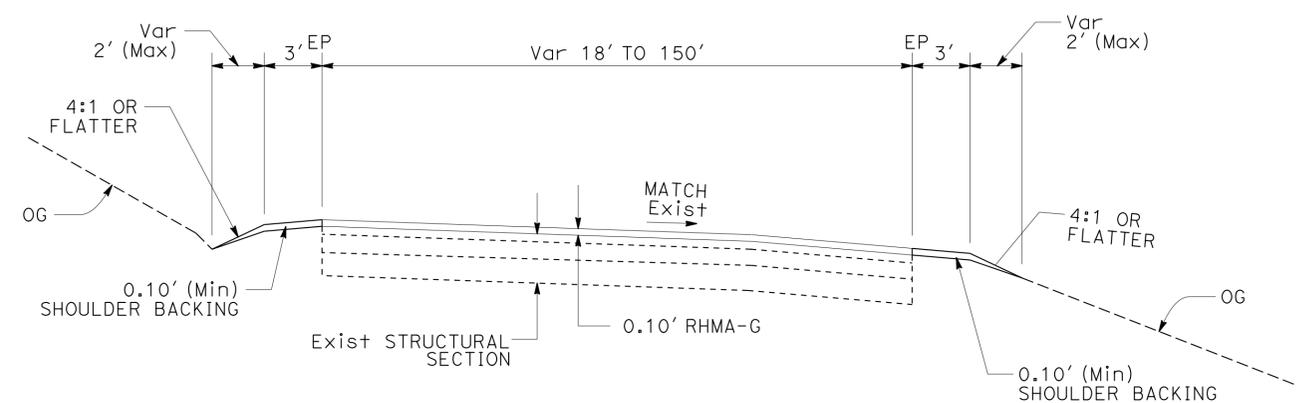
LOW MOUNTAIN
HIGH MOUNTAIN



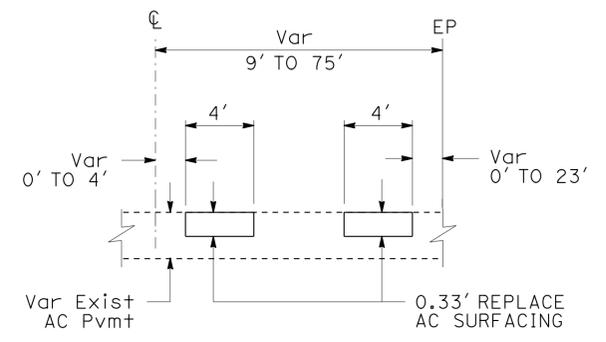
GUARDRAIL LOCATION WITHOUT DIKE
TYPICAL BOTH SIDES OF RAMPS



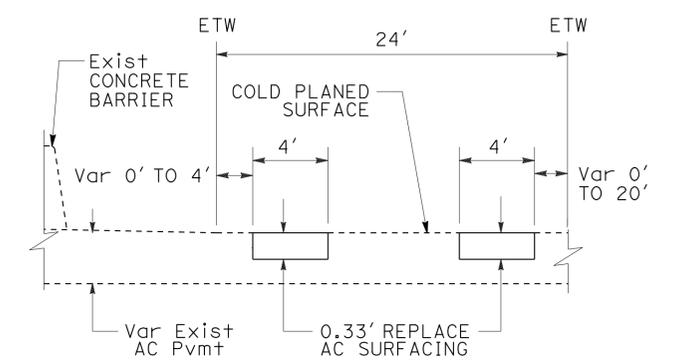
AC DIKE LOCATION WITH OR WITHOUT GUARDRAIL
TYPICAL BOTH SIDES OF RAMPS



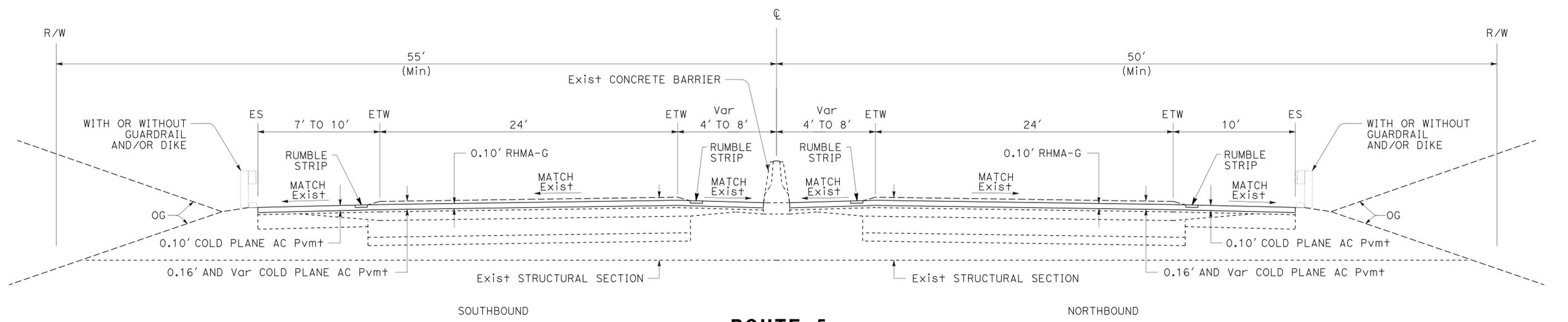
TYPICAL RAMP



REPLACE AC SURFACING (TYPICAL RAMPS)



REPLACE AC SURFACING (TYPICAL BOTH DIRECTIONS MAINLINE)



ROUTE 5
Sha PM 58.0 TO 67.0
Sis PM 0.0 TO 2.7

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CHECKED BY
 CALCULATED/DESIGNED BY
 MICHAEL CONNER
 KARLIE SMITH
 REVISIONS BY DATE
 REVISIONS BY DATE

NOTE:

1. Exist UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

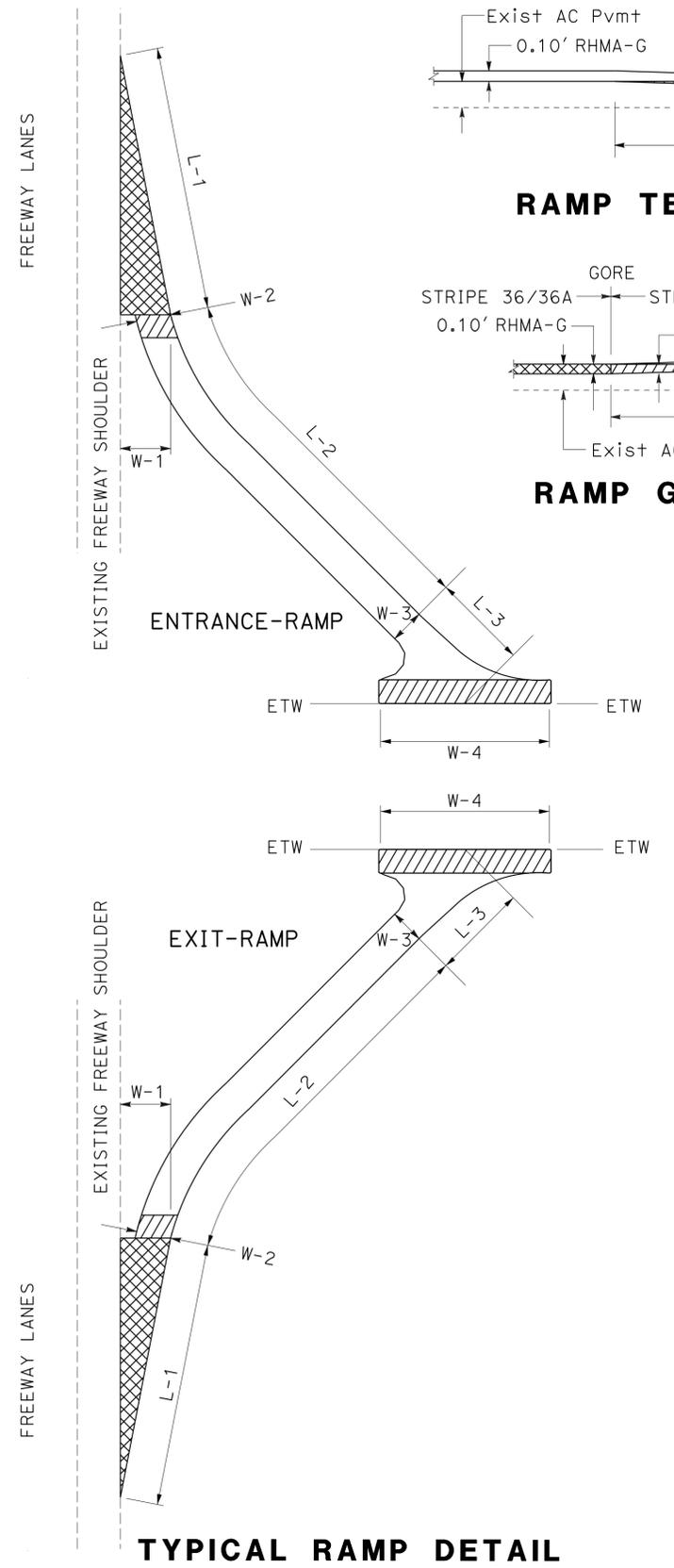
ABBREVIATIONS:

RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

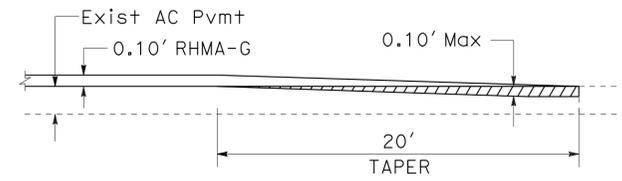
LEGEND:

COLD PLANE AC PAVEMENT (0.00' TO 0.10')

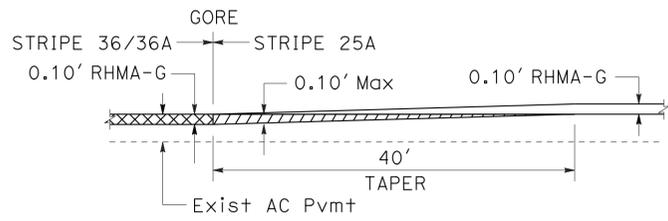
COLD PLANE AC PAVEMENT (0.10')



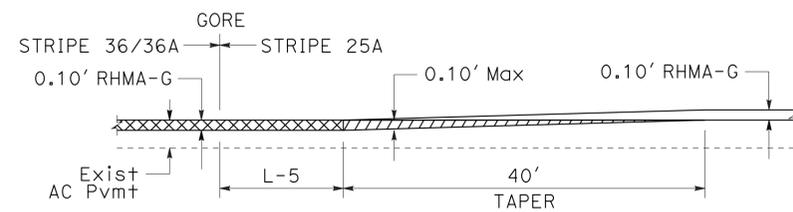
TYPICAL RAMP DETAIL



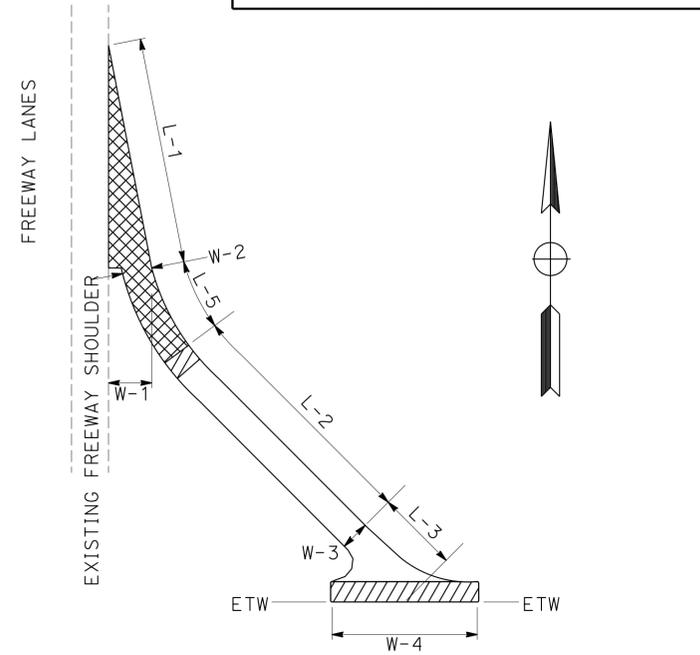
RAMP TERMINI TAPER
TYPICAL



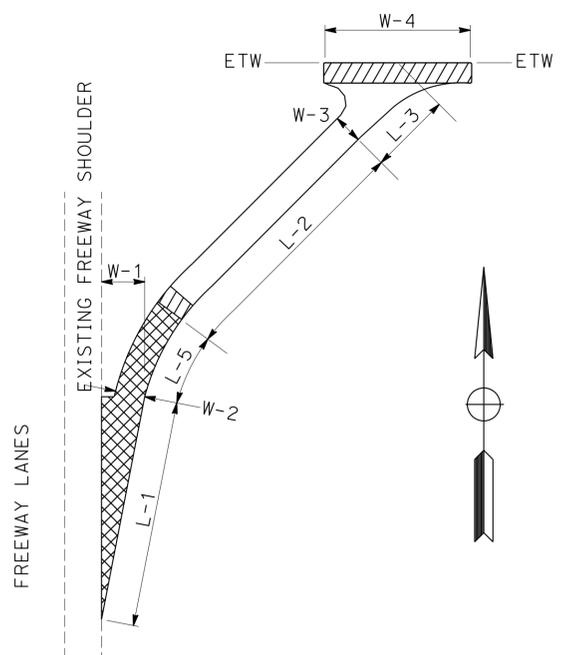
RAMP GORE TAPER
TYPICAL



RAMP GORE TAPER
CONANT Rd NB ENTRANCE
SODA CREEK Rd NB EXIT
CENTRAL DUNSMUIR NB ENTRANCE



RAMP DETAIL
CONANT Rd NB ENTRANCE



RAMP DETAIL
SODA CREEK Rd NB EXIT

RAMPS

OVERCROSSING/ UNDERCROSSING	DIRECTION OF TRAVEL		ENTRANCE RAMP	EXIT RAMP	POST MILE	DIMENSIONS									
	NB	SB				WIDTH IN FEET				LENGTH IN FEET					
						W-1	W-2	W-3	W-4	L-1	L-2	L-3	L-4	L-5	
FLUME CREEK Rd		X	X		59.23	28	20	40	150	530	530	70			
	X			X	59.24	34	24	20	40	700	458		100		
	X		X		59.45	28	24	28	34	500	350	145			
CONANT Rd		X	X		60.41	36	30	20	54	710	340	54			
	X			X	60.42	36	23	25	83	505	400	75			
		X	X		60.60	32	24	25	58	700	440	83			
SWEETBRIER Ave		X	X		60.69	36	28	24	81	500	690	87		70	
	X			X	61.58	36	24	26	80	690	585	57			
	X		X		61.64	36	28	25	85	630	505	81			
VISTA POINT		X		X	61.84	36	25	27	85	520	305	64			
	X		X		61.88	34	25	24	70	590	625	70			
	X		X		62.36	35				670					
CASTELLA		X		X	62.49	34				450					
	X		X		63.46	34	25	23	72	420	510	48			
		X	X		63.48	30	28	24	120	600	420	70			
SODA CREEK Rd	X			X	63.72	24	22	24	75	510	605	48			
		X	X		63.73	40	24	22	95	700	715	55			
		X	X		65.22	30	23	20	80	620	790	62		80	
CRAG VIEW Dr/ RAILROAD PARK Rd		X	X		65.31	24	24	24	65	700	510	45			
	X			X	65.55	38	26	25	90	694	522	74			
	X		X		65.56	28	28	25	95	470	550	54			
SOUTH DUNSMUIR	X			X	66.00	32	24	24		745	835				
	X		X		66.63	25	18	21	94	655	956	74			
	X	X	X		66.95	34	22	26	117	350	470	80			
CENTRAL DUNSMUIR		X	X		66.91	*	*	*	*	*	*	*	*	*	
		X	X		67.00	*	*	*	*	*	*	*	*	*	
	X		X		0.55	30	20	24		640	690				
CENTRAL DUNSMUIR		X	X		0.57	*	*	*	*	*	*	*	*	*	
		X	X		0.73	*	*	*	*	*	*	*	*	*	
	X		X		0.91	32	22	24	35	620	850	90			
CENTRAL DUNSMUIR	X		X		2.22	32	20	20	90	690	1260	70			
	X	X	X		* 2.58	24	24	20	46	375	310		80	120	
		X	X		2.62	30	30	36	90	492	122	45			

* SEE DETAIL ON C-2 FOR DIMENSIONS/DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-1

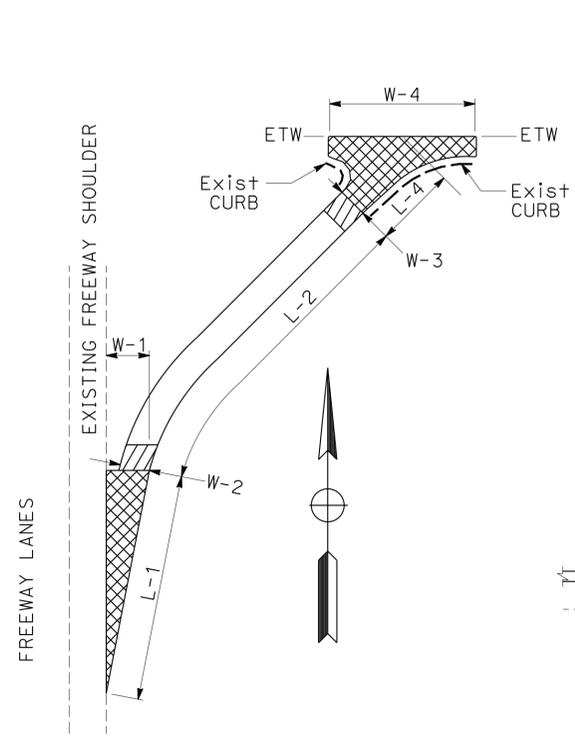
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0 0.0/2.7	4	49

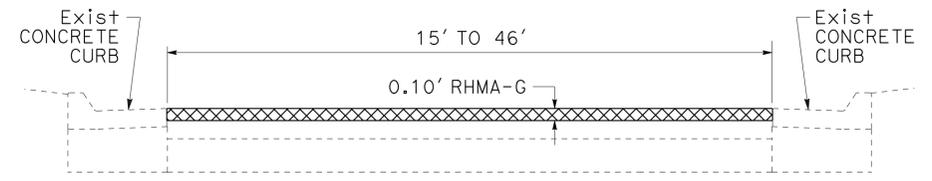
REGISTERED CIVIL ENGINEER	DATE
<i>Michael A. Conner</i>	02-03-14
PLANS APPROVAL DATE	
	02-03-14

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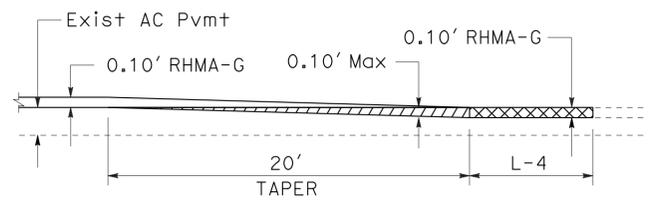
NOTE:
1. Exist UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.



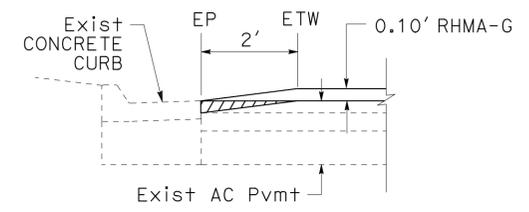
RAMP DETAIL
FLUME CREEK Rd NB EXIT-RAMP



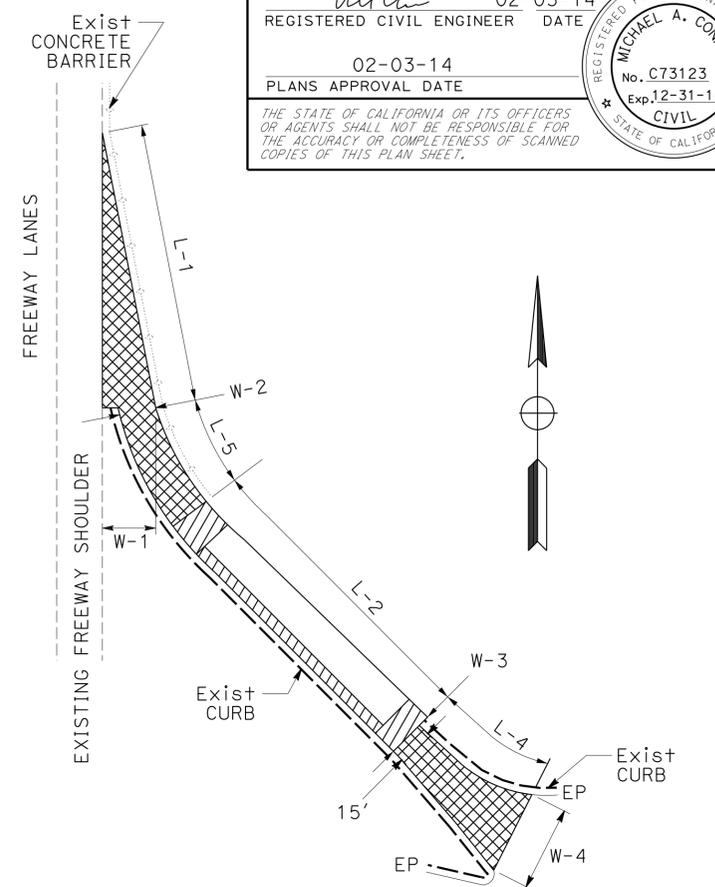
RAMP TERMINI
FLUME CREEK Rd NB EXIT
CENTRAL DUNSMUIR NB ENTRANCE



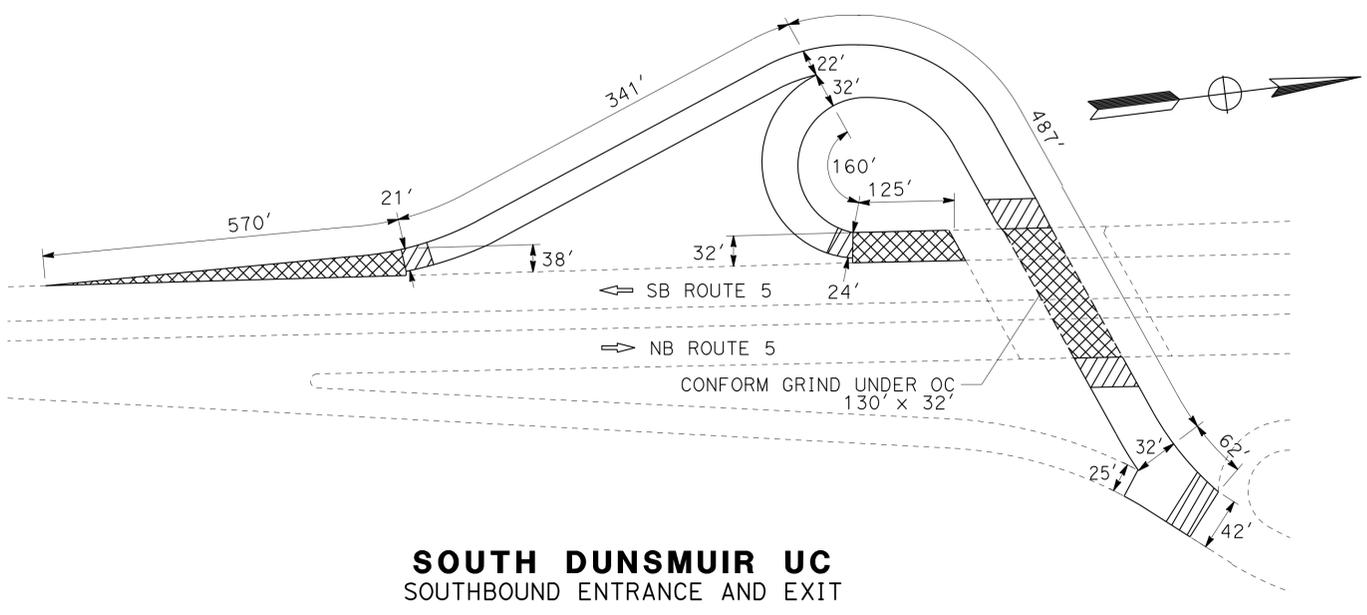
RAMP TERMINI TAPER
FLUME CREEK Rd NB EXIT
CENTRAL DUNSMUIR NB ENTRANCE



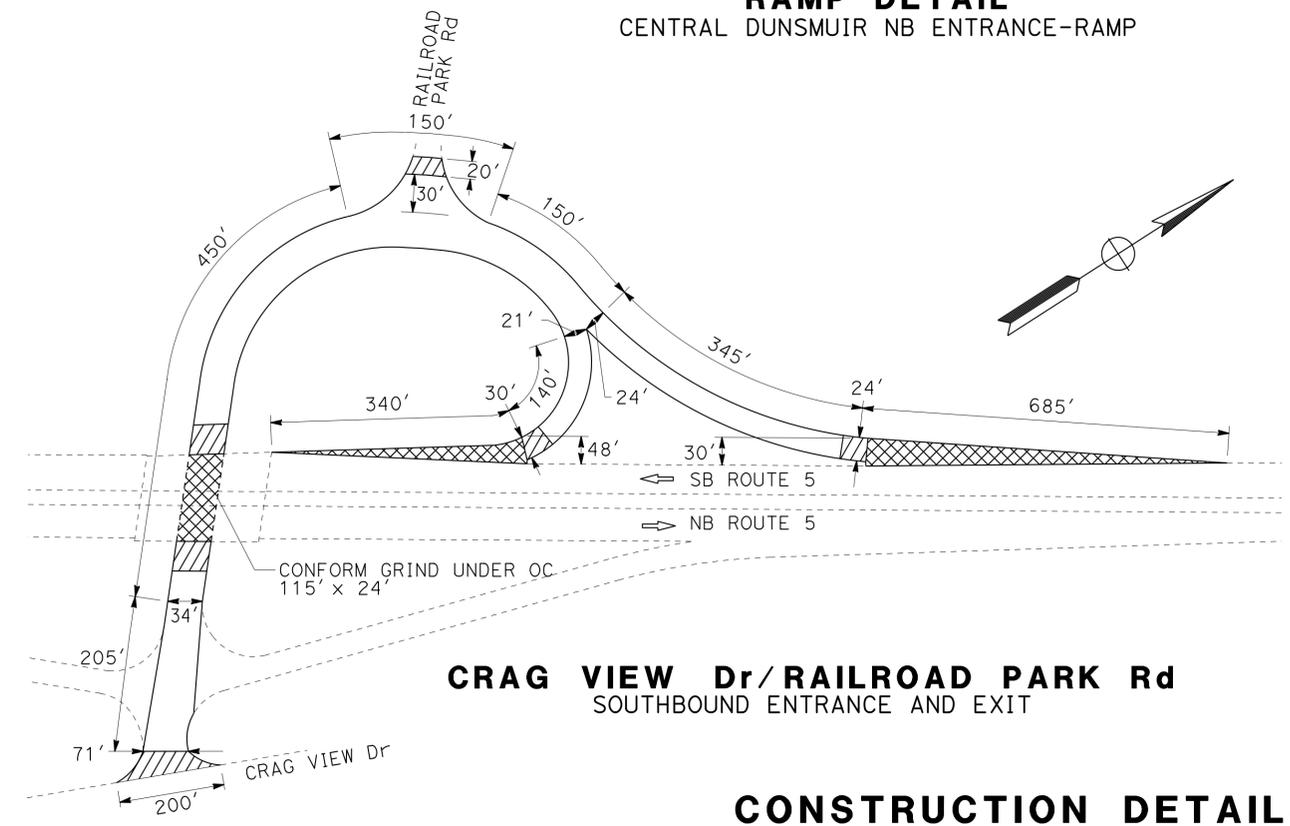
HMA TO CONCRETE CURB
CENTRAL DUNSMUIR NB ENTRANCE RAMP



RAMP DETAIL
CENTRAL DUNSMUIR NB ENTRANCE-RAMP



SOUTH DUNSMUIR UC
SOUTHBOUND ENTRANCE AND EXIT



CRAG VIEW Dr/RAILROAD PARK Rd
SOUTHBOUND ENTRANCE AND EXIT

CONSTRUCTION DETAILS

NO SCALE

C-2

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE

REVISOR	DATE	REVISION
MICHAEL CONNER		
KARLIE SMITH		
CALCULATED BY	DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR		
LANCE BROWN		

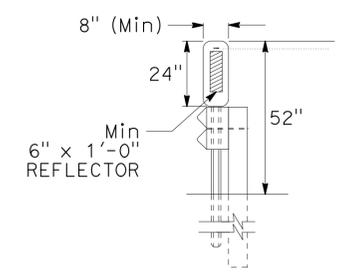
LAST REVISION DATE PLOTTED => 13-FEB-2014
02-03-14 TIME PLOTTED => 12:54

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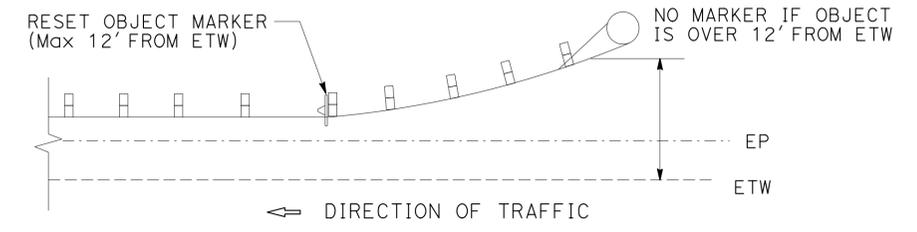


NOTES:

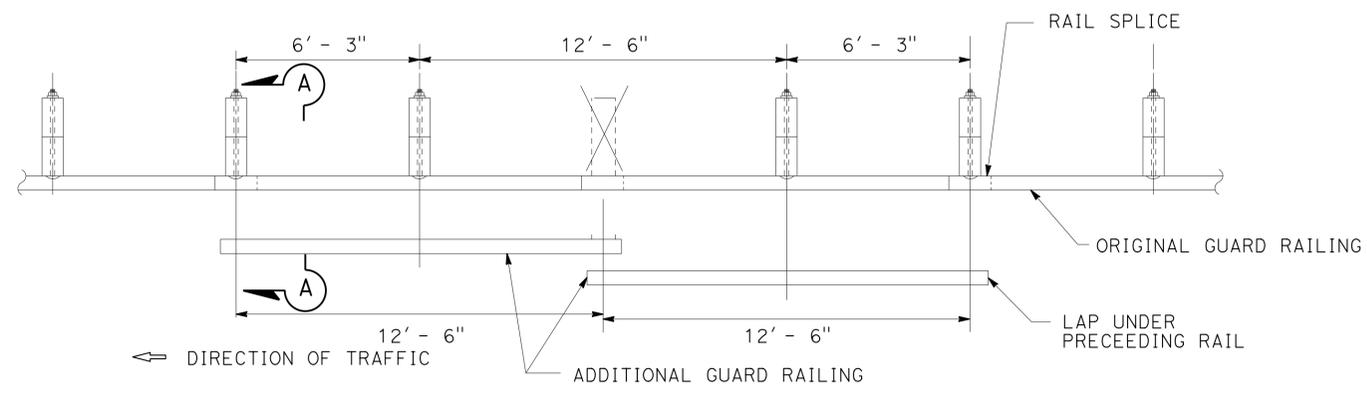
1. Exist UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
2. LAP ALL RAILS AT EXISTING RAIL LAPS
3. A 2-POST OPTION IS AVAILABLE, BUT NOT SHOWN
4. WHEN A POST IS REMOVED AND THE RAIL ELEMENTS ARE LAPPED, THEN THE LAPPED ELEMENTS MUST BE SUPPORTED BY A MIN OF 2 POST OR ADD ADDITIONAL LENGTH OF LAPPED ELEMENTS.



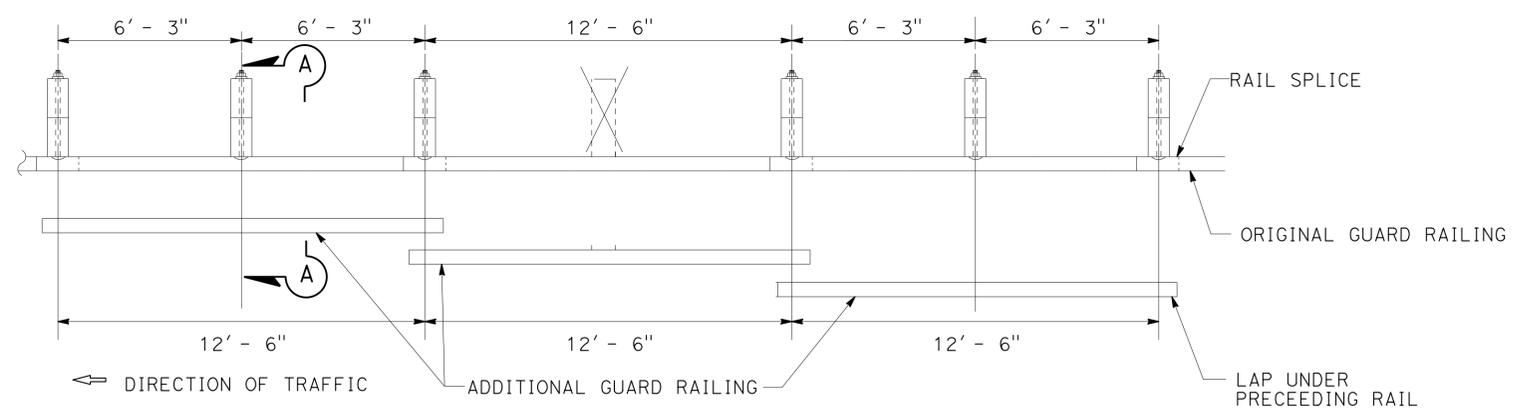
PLACE NEAR EDGE OF OBJECT MARKER
IN LINE WITH THE EDGE OF OBJECT



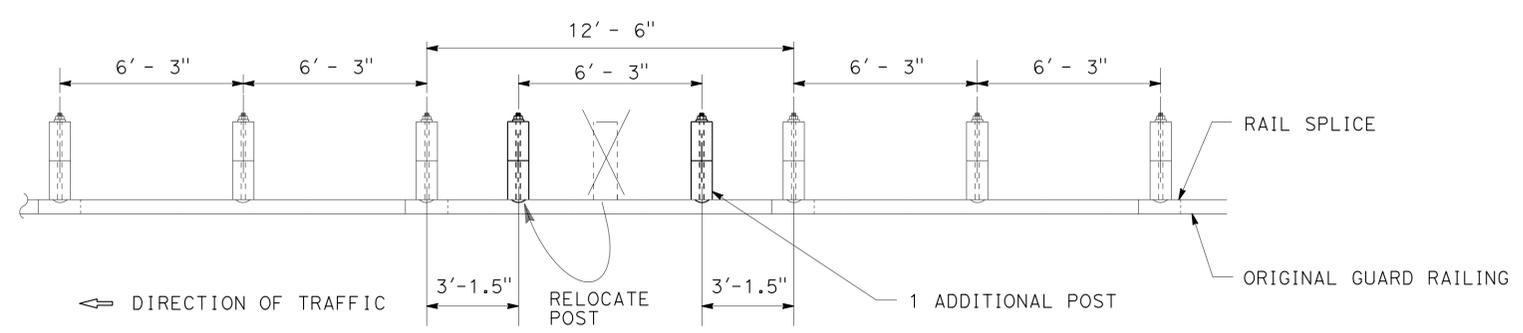
TYPICAL GUARDRAIL OBJECT MARKERS



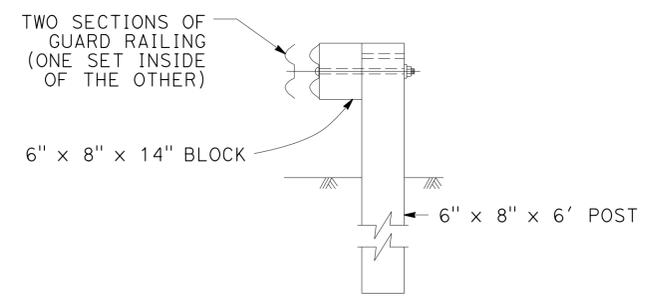
CASE 1 (ONE POST OMITTED AT JUNCTION OF TWO ELEMENTS)



CASE 2 (ONE POST OMITTED AT CENTER OF ELEMENT)

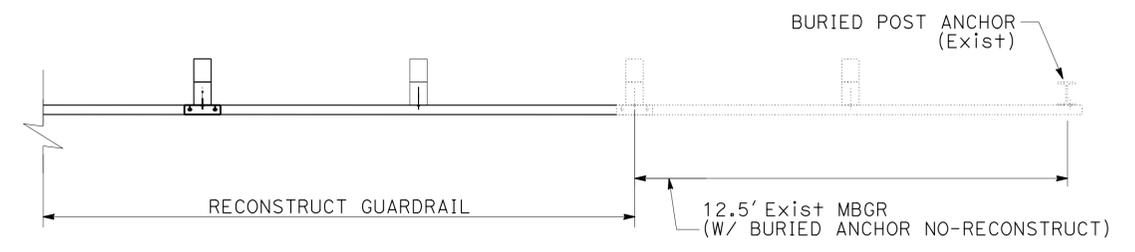


**CASE 3 (ONE POST OMITTED, MOVE THE POST AND ADD ONE POST)
(NO NESTED RAIL REQUIRED)**



**TYPICAL RAILING OVERLAP
INSTALLATION AT POST**

SECTION A-A



BURIED POST END ANCHOR DETAIL

LONG SPAN NESTED GUARD RAILING

CONSTRUCTION DETAILS

NO SCALE

C-3

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED/DESIGNED BY: MICHAEL CONNER
CHECKED BY: KARLIE SMITH
REVISED BY: DATE REVISION

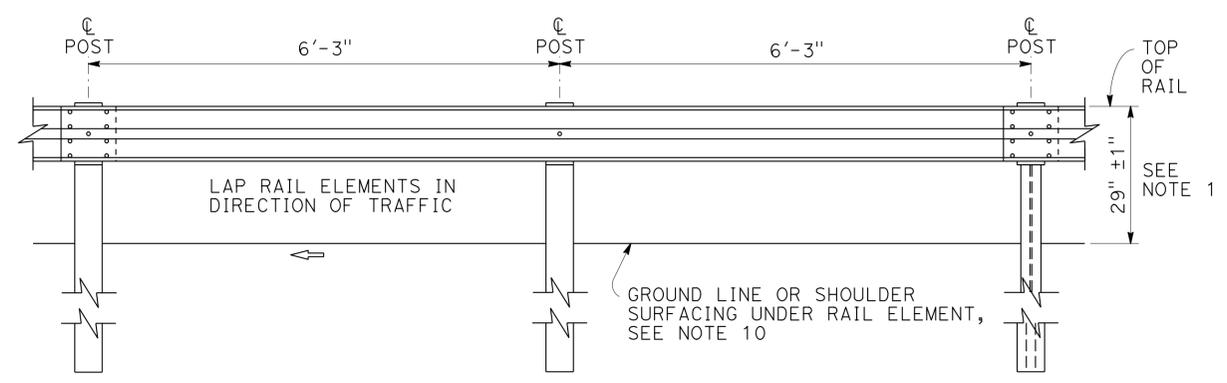
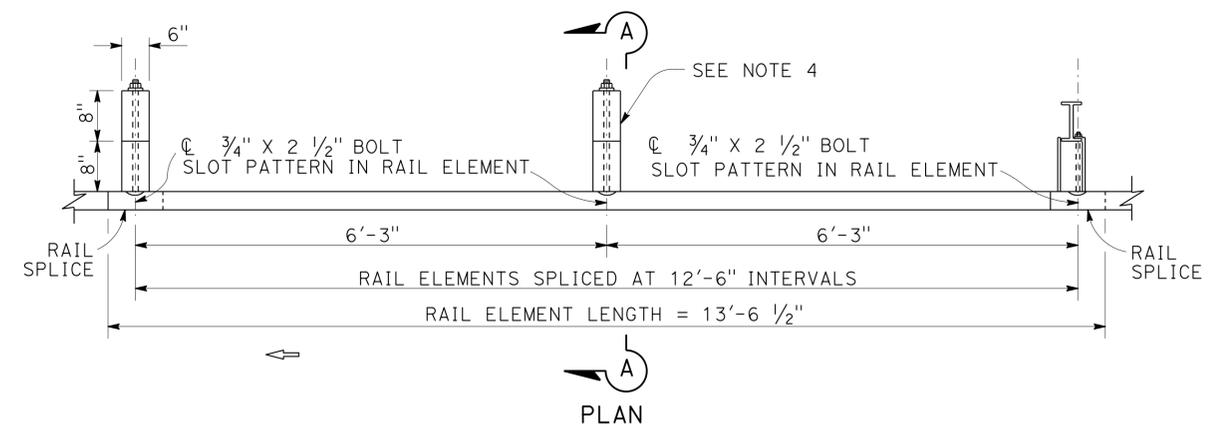
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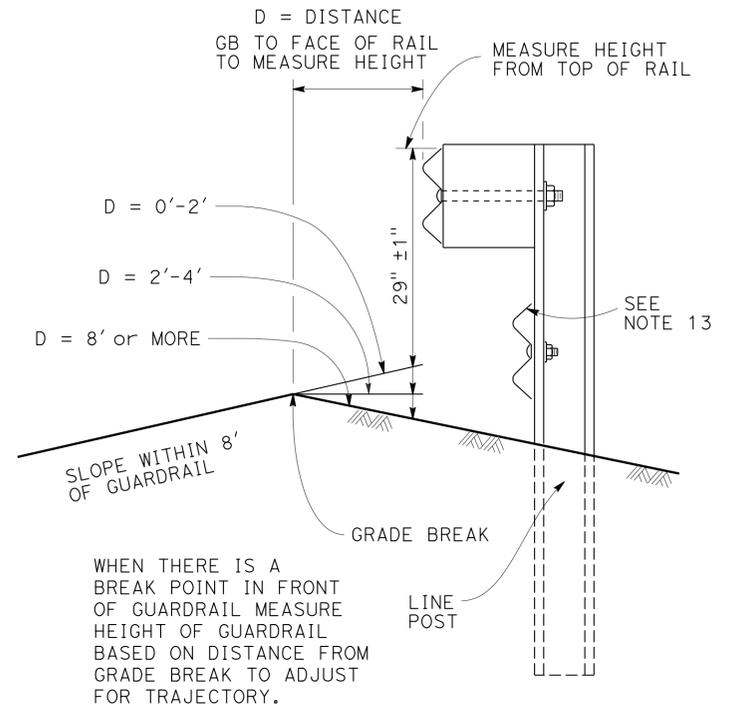


NOTES:

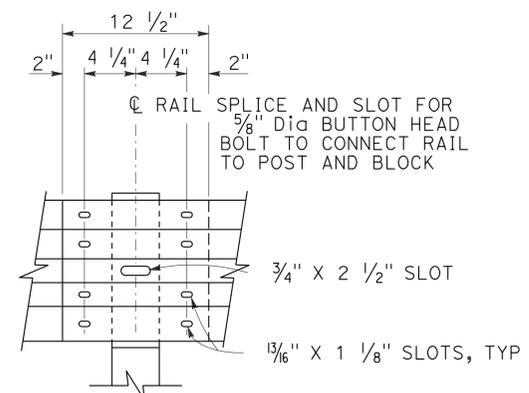
- SEE MEASURE HEIGHT DETAIL.
- FOR DETAILS OF STANDARD HARDWARE USED TO CONSTRUCT GUARD RAILING, SEE STANDARD PLAN A77M1.
- FOR DETAILS OF POSTS (WOOD OR STEEL) AND BLOCKS (WOOD OR COMPOSITE) USED TO CONSTRUCT GUARD RAILING SEE STANDARD PLAN A77N1 OR A77N2.
- A SINGLE LINE POST MAY BE OFFSET UP TO 12" INLINE WITH THE GUARDRAIL.
- DIRECTION OF ADJACENT TRAFFIC INDICATED BY \Rightarrow .
- PLACE TYPE F DIKE UNDER GUARDRAIL AND PLACE TYPE C DIKE IF MORE THAN 2" INFRONT OF FACE OF GUARDRAIL.
- SLOTTED HOLE FOR BOLTED CONNECTION OF RAIL ELEMENT TO BLOCK AND POST. SEE "RAIL ELEMENT SPLICE DETAIL".
- SLOTTED HOLES FOR SPLICE BOLTS TO OVERLAP ENDS OF RAIL ELEMENT. SEE "RAIL ELEMENT SPLICE DETAIL".
- ADDITIONAL HOLE IN UPPERMOST PORTION OF LINE POST IS FOR POTENTIAL FUTURE ADJUSTMENTS OF RAILING HEIGHT. SEE STANDARD PLAN A77N1, A77N2.
- INSTALL POST IN SOIL.
- TO CONNECT RAILING TO TERMINAL SYSTEM END TREATMENT, TRANSITION THE TOP OF RAILING HEIGHT AT A RATIO OF 120:1 TO TERMINAL SYSTEM END TREATMENT HEIGHT PLUS ONE 12'-6" STANDARD RAILING SECTION AT THE TRANSITIONED HEIGHT FOR A HORIZONTAL CONNECTION TO THE END TREATMENT.
- EXIST UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- PLACE RUB RAIL (GUARD RAIL ELEMENT) AND ATTACH TO POST WITH NO BLOCK WHEN MEASURED HEIGHT OF GUARDRAIL IS ABOVE 32".



**ELEVATION
GUARD RAILING**

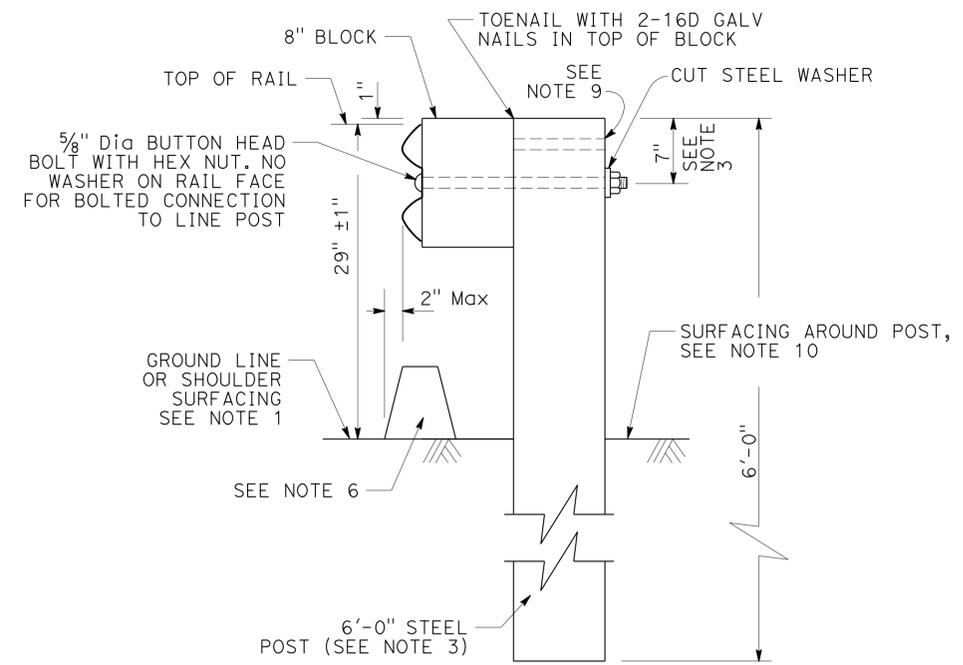


**MEASURE HEIGHT DETAIL
AT GRADE BREAK (GB)**

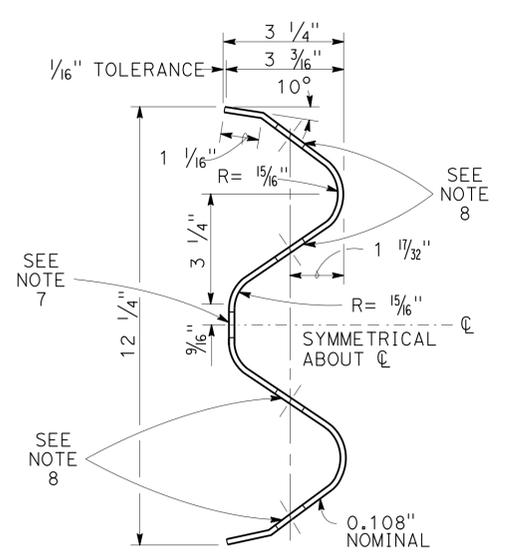


RAIL ELEMENT SPLICE DETAIL

- CONNECT THE OVER LAPPED END OF THE RAIL ELEMENTS WITH 5/8" Dia x 1 3/8" BUTTON HEAD OVAL SHOULDER SPLICE BOLTS INSERTED INTO THE 1 3/16" x 1 1/8" SLOTS AND BOLTED TOGETHER WITH 5/8" Dia 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.
- THE ENDS OF THE RAIL ELEMENTS ARE TO BE OVERLAPPED IN THE DIRECTION OF TRAFFIC (SEE DETAILS).
- 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 LINE
POST INSTALLATION**
SEE NOTE 4



**SECTION THRU RAIL ELEMENT
CONSTRUCTION DETAILS**

NO SCALE **C-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY CHECKED BY
 MICHAEL CONNER KARLIE SMITH
 REVISED BY DATE REVISED
 USER NAME => s115152
 DGN FILE => 24g160ga004.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 0156
 PROJECT NUMBER & PHASE 02-1300-0085-1
 EA 02-4G160

LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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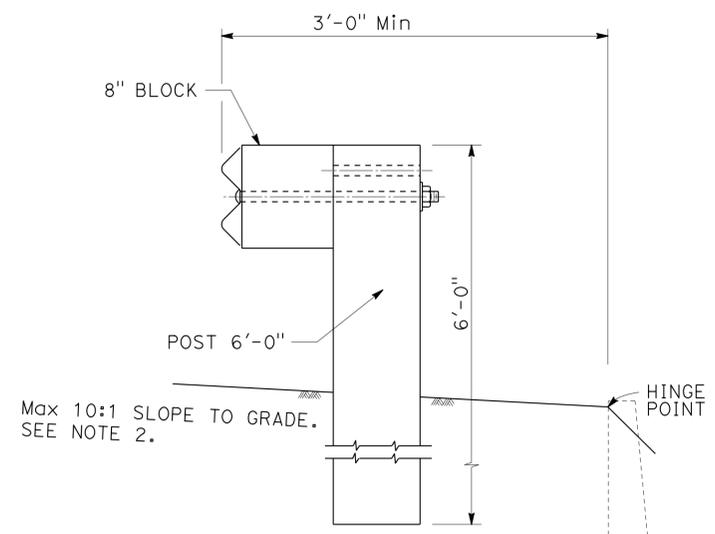
02-03-14	
REGISTERED CIVIL ENGINEER	DATE
02-03-14	
PLANS APPROVAL DATE	

MICHAEL A. CONNER	
No. C73123	
Exp. 12-31-14	
CIVIL	

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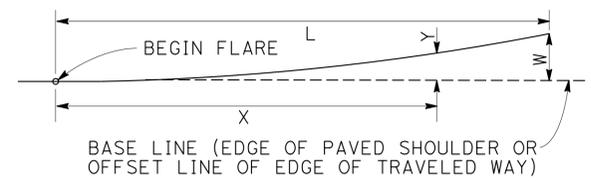
NOTES:

1. THESE INSTALLATION DETAILS APPLICABLE TO WOOD AND STEEL LINE POST INSTALLATIONS.
2. SLOPE INFRONT OF GUARDRAIL MUST BE 10:1 OR FLATTER.
3. W6 x 15 STEEL POST, 8'-0" IN LENGTH, WITH 8" NOTCHED BLOCKS MAY BE USED IN PLACE OF THE 10" x 10" x 8'-0" WOOD POST WITH 8" BLOCK SHOWN IN THE "STRENGTHENED RAILING SECTIONS DETAILS".
4. DIRECTION OF ADJACENT TRAFFIC INDICATED BY ← .
5. Exist UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.



TYPICAL ROADWAY INSTALLATION

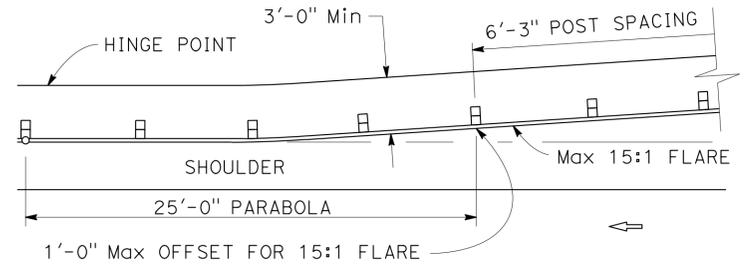
SEE NOTE 1



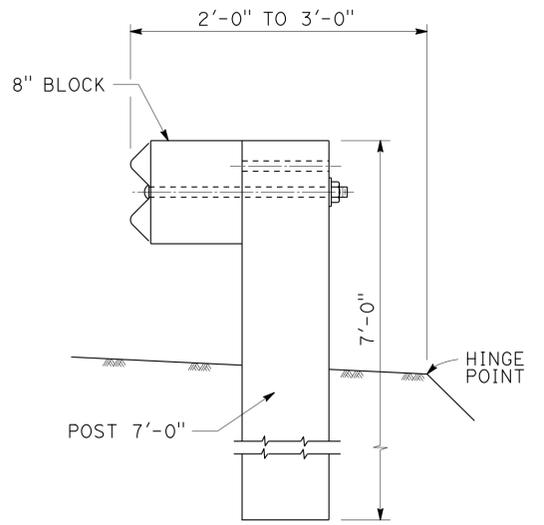
$$Y = \frac{wx^2}{L^2}$$

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

PARABOLIC FLARE OFFSETS



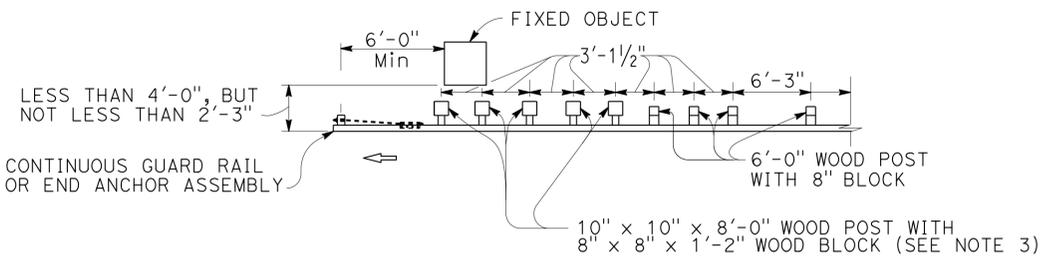
GUARDRAIL WITH FLARED ALIGNMENT



NARROW ROADWAY INSTALLATION

SEE NOTE 1

POST EMBEDMENT



NOTE A: FOR A SERIES OF FIXED OBJECTS (BRIDGE COLUMNS, OVERHEAD SIGN SUPPORTS, E+c) ADDITIONAL 10" X 10" X 8'-0" WOOD POST WITH 8" X 8" X 1'-2" WOOD BLOCKS AT 3'-1 1/2" CENTER TO CENTER SPACING ARE TO BE USED BETWEEN FIXED OBJECTS.

STRENGTHENED RAILING SECTIONS FOR FIXED OBJECT

USE STRENGTHENED RAILING SECTIONS WHERE MINIMUM CLEARANCE BETWEEN THE FACE OF THE GUARD RAILING AND FIXED OBJECT(S) IS LESS THAN 4'-0", BUT NOT LESS THAN 2'-3".

CONSTRUCTION DETAILS

NO SCALE

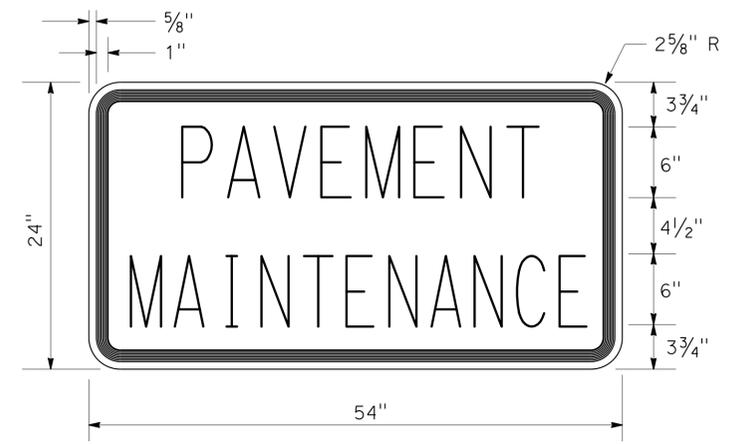
C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR: LANCE BROWN
 CALCULATED/DESIGNED BY: MICHAEL CONNER
 CHECKED BY: KARLIE SMITH
 REVISIONS: REVISIONED BY: DATE REVISIONED:

NOTES:

1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. INTERMEDIATE C11 SIGNS SHOULD BE PLACED EVERY 3-5 MILES AS NECESSARY.
3. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.

LEGEND:



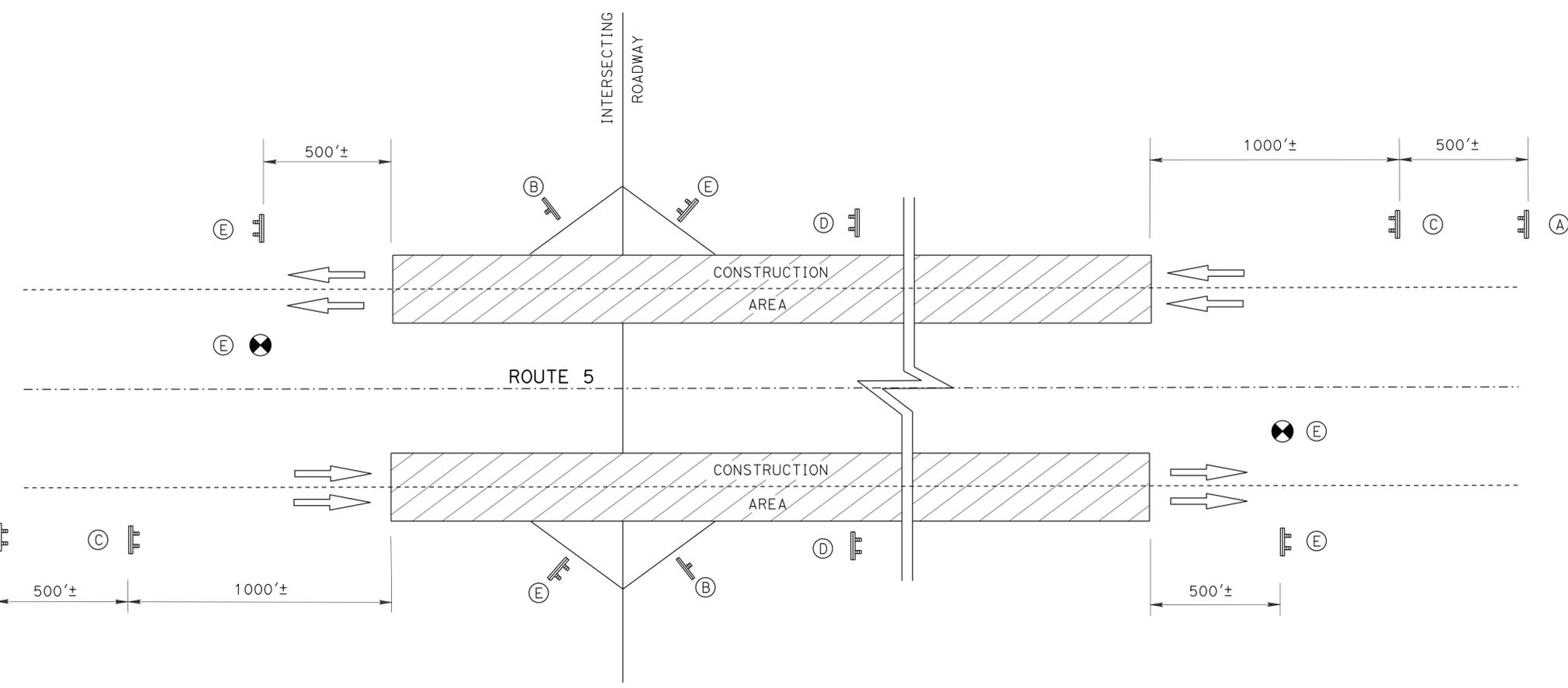
C23B(CA) SIGN PANEL DETAIL

**CONSTRUCTION AREA SIGNS
(STATIONARY MOUNTED)**

TYPE	PANEL SIZE INCHES	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
A	C40(CA) 108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2- 4" x 6"	2
B	W20-1 C23B(CA) 48" x 48" 54" x 24"	ROAD WORK AHEAD "PAVEMENT MAINTENANCE"	1- 6" x 6"	17
C	C11(CA) C23B(CA) 90" x 48" 54" x 24"	ROAD CONSTRUCTION NEXT XX MILES "PAVEMENT MAINTENANCE"	2- 4" x 6"	2
D	C11(CA) 90" x 48"	ROAD CONSTRUCTION NEXT XX MILES	2- 4" x 6"	4
E	C14(CA) 48" x 24"	END ROAD WORK	1- 4" x 4" OR BARRIER MOUNT	21

ENTRANCE/EXIT RAMP

Co	PM	LOCATION
Sha	59.24	FLUME CREEK Rd NB EXIT
Sha	59.45	FLUME CREEK Rd NB ENTRANCE
Sha	59.23	FLUME CREEK Rd SB ENTRANCE
Sha	59.48	FLUME CREEK Rd SB EXIT
Sha	60.42	CONANT Rd NB EXIT
Sha	60.69	CONANT Rd NB ENTRANCE
Sha	60.41	CONANT Rd SB ENTRANCE
Sha	60.60	CONANT Rd SB EXIT
Sha	61.64	SWEETBRIER Ave NB EXIT
Sha	61.84	SWEETBRIER Ave NB ENTRANCE
Sha	61.58	SWEETBRIER Ave SB ENTRANCE
Sha	61.88	SWEETBRIER Ave SB EXIT
Sha	62.36	VISTA POINT NB EXIT
Sha	62.49	VISTA POINT NB ENTRANCE
Sha	63.46	CASTELLA NB EXIT
Sha	63.72	CASTELLA NB ENTRANCE
Sha	63.48	CASTELLA SB ENTRANCE
Sha	63.73	CASTELLA SB EXIT
Sha	65.22	SODA CREEK Rd NB EXIT
Sha	65.56	SODA CREEK Rd NB ENTRANCE
Sha	65.31	SODA CREEK Rd SB ENTRANCE
Sha	65.55	SODA CREEK Rd SB EXIT
Sha	66.00	CRAG VIEW Dr NB EXIT
Sha	66.63	CRAG VIEW Dr/ RAILROAD PARK Rd NB EXIT
Sha	66.95	CRAG VIEW Dr/ RAILROAD PARK Rd NB ENTRANCE
Sha	66.91	CRAG VIEW Dr/ RAILROAD PARK Rd SB ENTRANCE
Sha	67.00	CRAG VIEW Dr/ RAILROAD PARK Rd SB EXIT
Sis	0.55	S DUNSMUIR Ave NB EXIT
Sis	0.91	S DUNSMUIR Ave NB ENTRANCE
Sis	0.57	S DUNSMUIR Ave SB ENTRANCE
Sis	0.73	S DUNSMUIR Ave SB EXIT
Sis	2.22	CENTRAL DUNSMUIR NB EXIT
Sis	2.58	CENTRAL DUNSMUIR NB ENTRANCE
Sis	2.62	CENTRAL DUNSMUIR SB ENTRANCE



**CONSTRUCTION AREA SIGNS
NO SCALE
CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY
 CHECKED BY
 MICHAEL CONNER
 KARLIE SMITH
 REVISED BY
 DATE REVISED

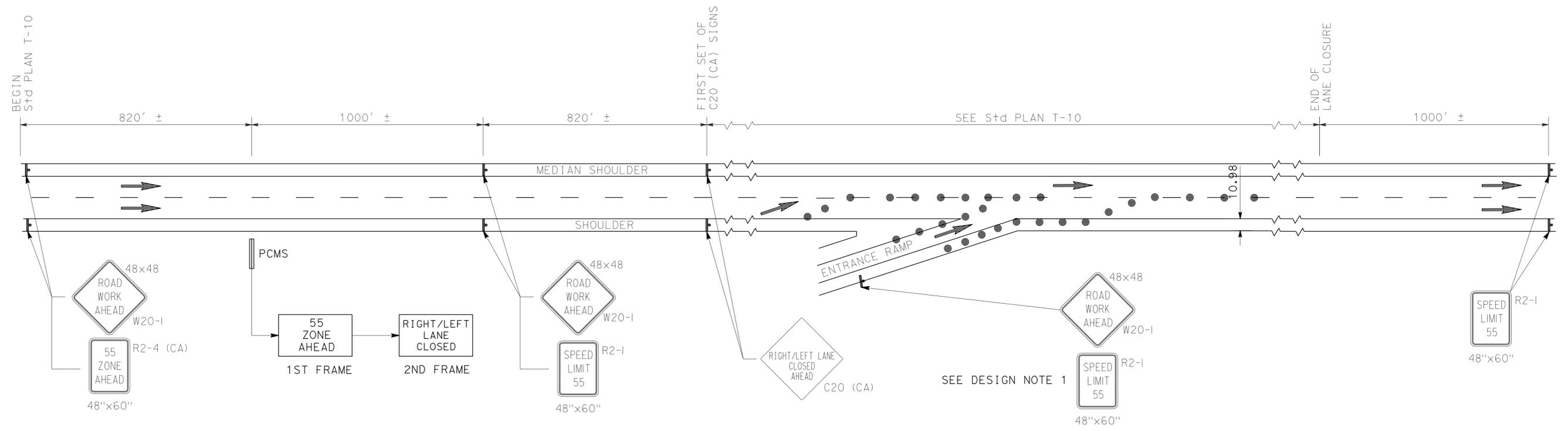
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0 0.0/2.7	9	49
			02-03-14	DATE	
			02-03-14	PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER MICHAEL A. CONNER No. C73123 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

1. EXACT SIGN & PCMS LOCATIONS TO BE DETERMINED BY ENGINEER
2. SEE STANDARD PLANS FOR TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE.
3. COVER EXISTING SPEED LIMIT SIGNS WITHIN THE REDUCED SPEED ZONE.

LEGEND:

-  PORTABLE SIGN
-  DIRECTION OF TRAVEL
-  PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
-  TRAFFIC CONE



TYPICAL SIGN LAYOUT FOR TEMPORARY REDUCED SPEED ZONE

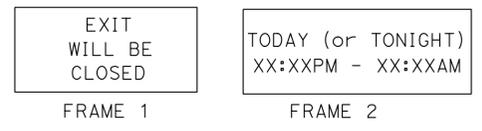
**CONSTRUCTION AREA SIGNS
NO SCALE
CS-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY MICHAEL CONNER
 CHECKED BY KARLIE SMITH
 REVISED BY DATE REVISED
 USERNAME => s115152
 DGN FILE => 24g1601a002.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE 15" IN INCHES
 UNIT 0156
 PROJECT NUMBER & PHASE 02-1300-0085-1
 EA 02-4G160

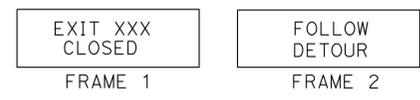
LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54

NOTES:

① PRE-NOTIFICATION PCMS: PLACE NEAR RAMP AND ACTIVATE APPROXIMATELY 12 HOURS PRIOR TO RAMP CLOSURE.



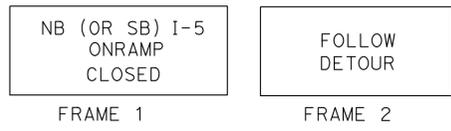
② RAMP CLOSED PCMS: MOVE PRE-NOTIFICATION PCMS APPROXIMATELY 1000 FEET BEFORE RAMP AND ACTIVATE DURING RAMP CLOSURE.



③ PLACE 7 DAYS PRIOR TO RAMP CLOSURE.

4. IF AVAILABLE, EXISTING ROUTE SHIELDS AND DIRECTIONS MAY BE USED IN PLACE OF SIGNS SHOWN.

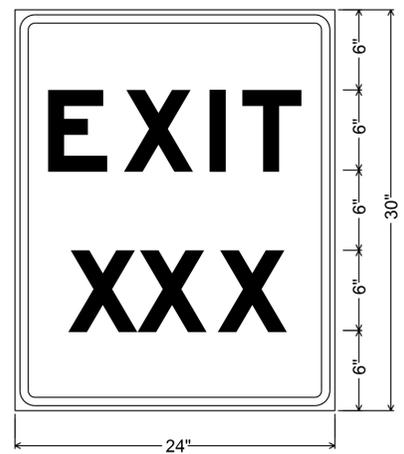
⑤ RAMP CLOSED PCMS: PLACE BEFORE OPEN ENTRANCE RAMP AND ACTIVATE DURING RAMP CLOSURE.



6. EXIT NUMBER SHOWN AS FOLLOWS.

EXIT NAME	EXIT NUMBER
FLUME CREEK Rd	720
CONANT Rd	721
SWEETBRIER Ave	723
CASTELLA	724
SODA CREEK Rd	726
CRAG VIEW Dr	727
CRAG VIEW Dr/RAILROAD PARK Rd	728
S DUNSMUIR Ave	729
CENTRAL DUNSMUIR	730

7. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.



1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
[EXIT] E Mod; [XXX] E Mod;

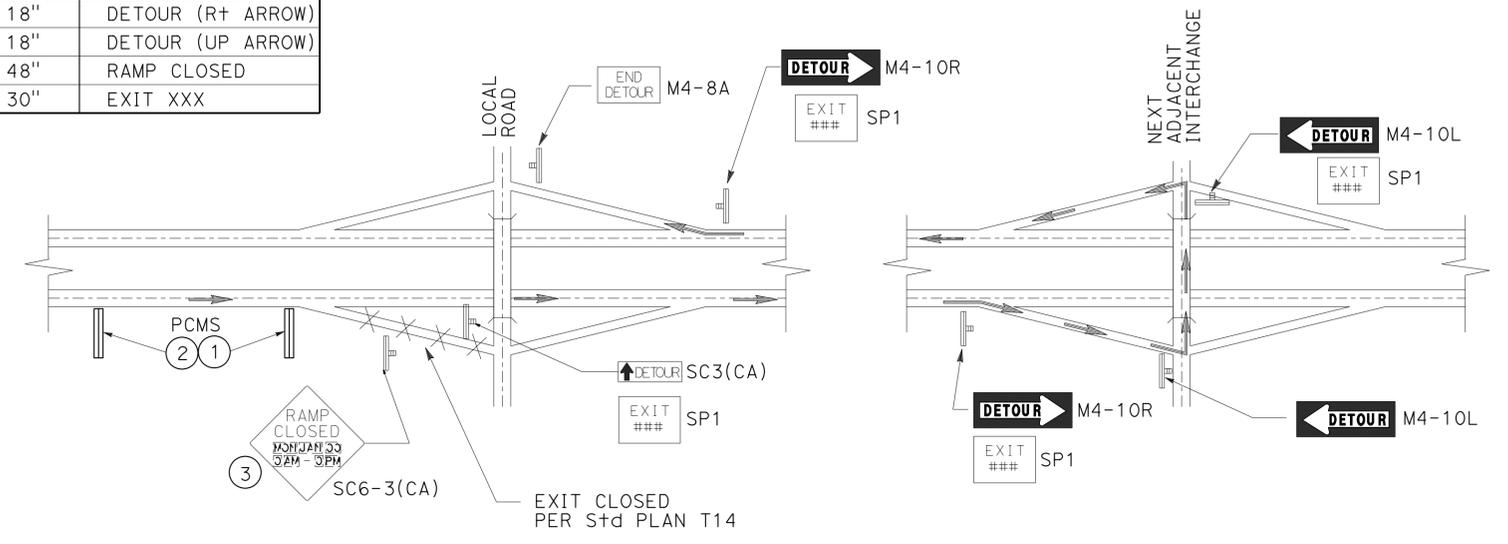
EXIT NUMBER SIGN (SP1) DETAIL
(SEE NOTE 6)

CONSTRUCTION AREA SIGNS (PORTABLE)

CODE	PANEL SIZE	PANEL MESSAGE
G27-2 (5) (CA)	24" x 24"	I-5
M3-1	24" x 12"	NORTH
M3-3	24" x 12"	SOUTH
M4-8A	24" x 18"	END DETOUR
M4-10L	48" x 18"	DETOUR (L+ ARROW)
M4-10R	48" x 18"	DETOUR (R+ ARROW)
SC3 (CA)	48" x 18"	DETOUR (UP ARROW)
SC6-3 (CA)	48" x 48"	RAMP CLOSED
SP1	24" x 30"	EXIT XXX

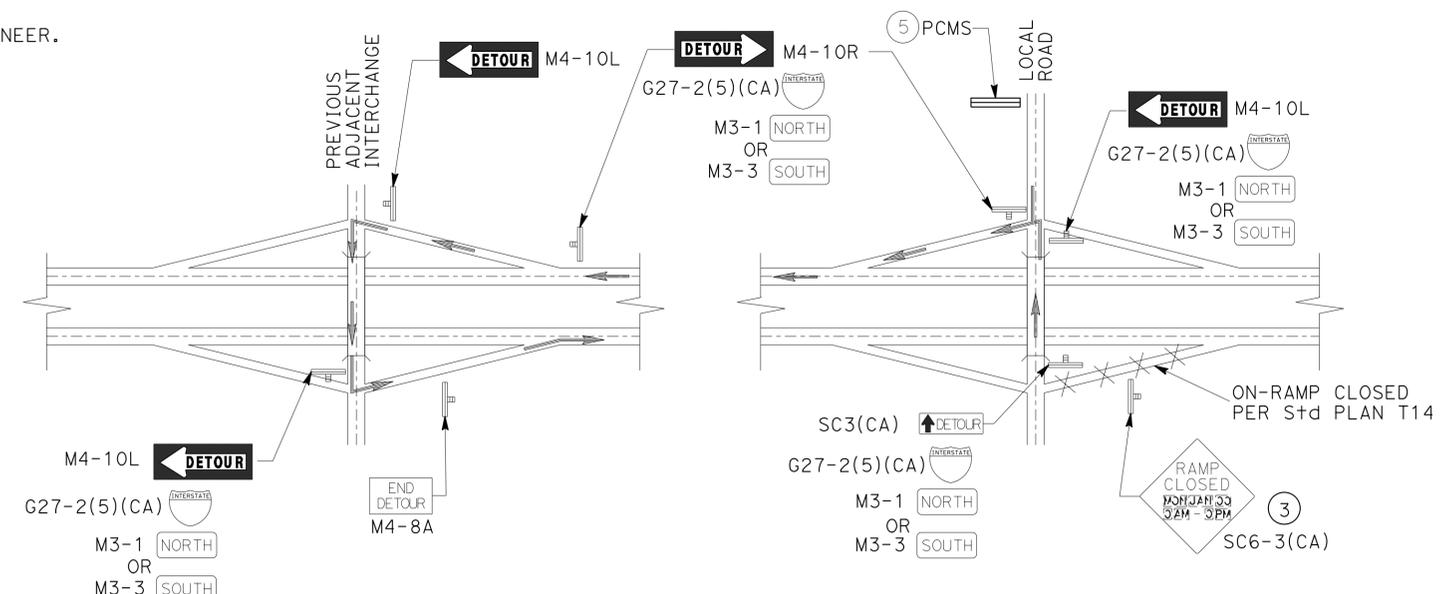
LEGEND:

- PORTABLE CHANGABLE MESSAGE SIGN
- CONSTRUCTION AREA SIGN (PORTABLE)
- DIRECTION OF TRAFFIC



TYPICAL EXIT-RAMP DETOUR SIGNING

FLUME CREEK Rd NB
CONANT Rd NB AND SB
SWEETBRIER Ave NB AND SB
CASTELLA NB AND SB
SODA CREEK Rd SB



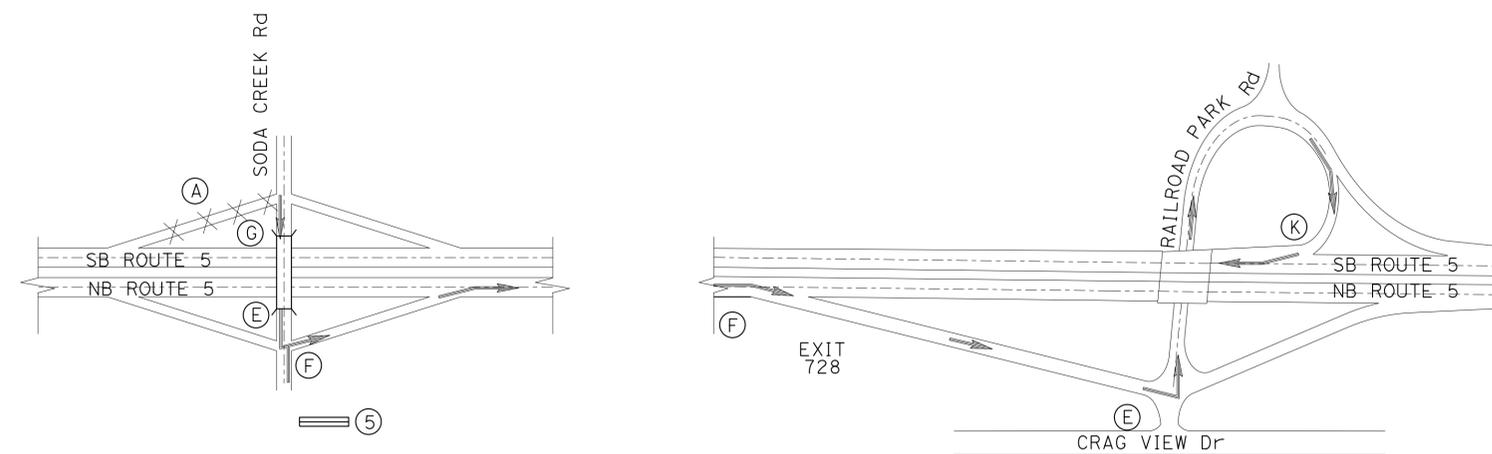
TYPICAL ENTRANCE-RAMP DETOUR SIGNING

FLUME CREEK Rd SB
CONANT Rd NB AND SB
SWEETBRIER Ave NB AND SB
CASTELLA NB AND SB
SODA CREEK Rd NB

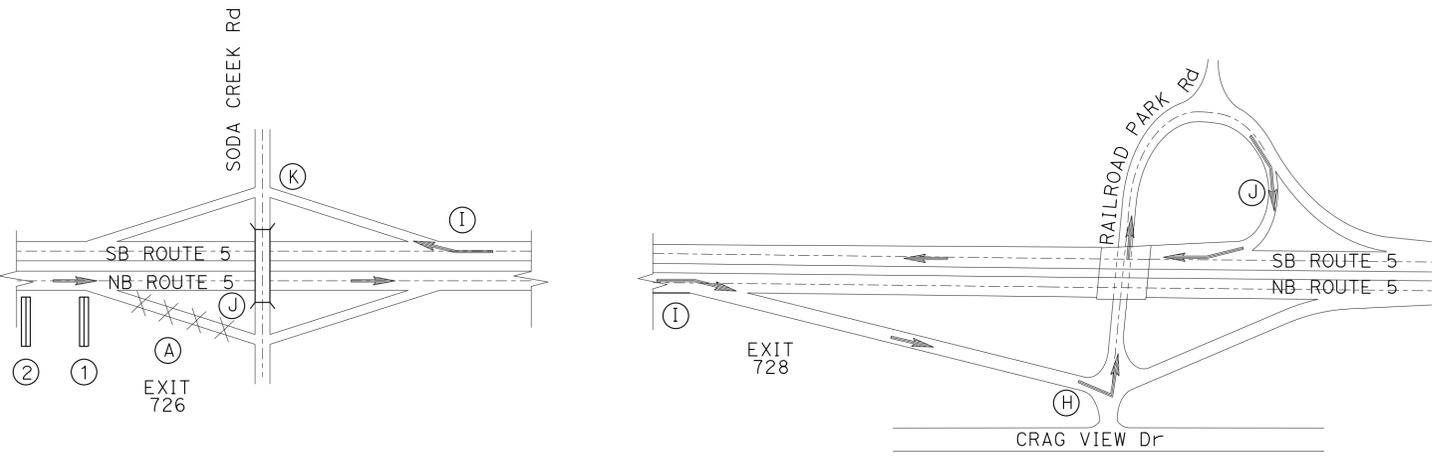
DETOUR PLAN

NO SCALE

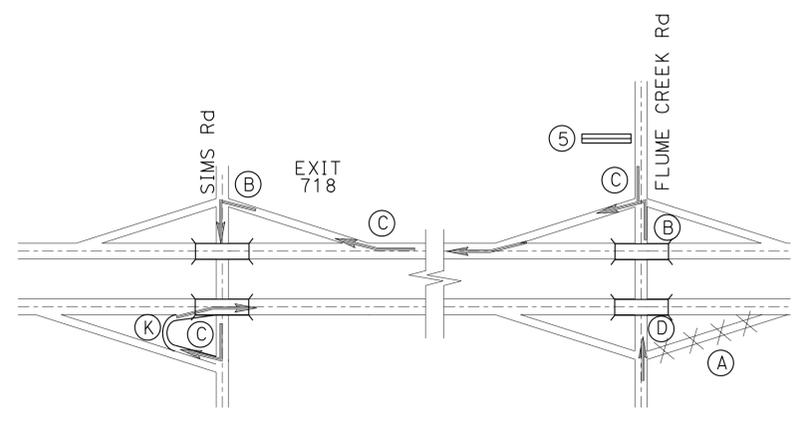
DE-1



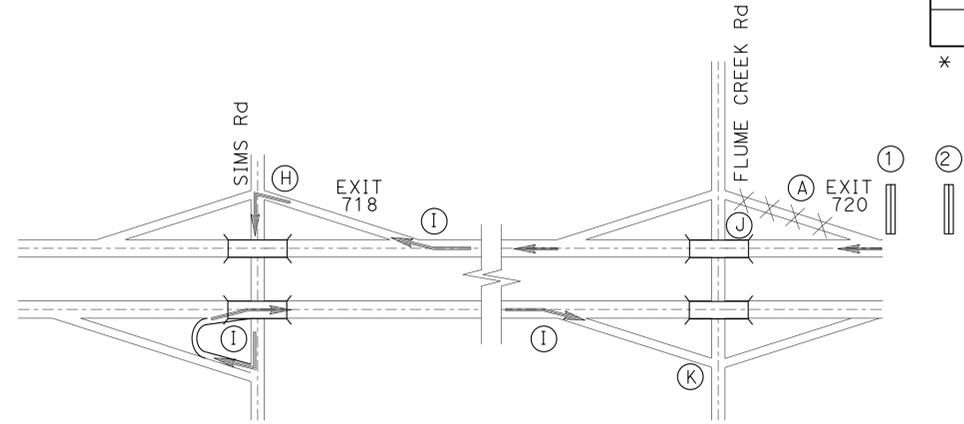
**DETOUR FOR CLOSURE OF SB ROUTE 5
ENTRANCE RAMP FROM SODA CREEK Rd**



**DETOUR FOR CLOSURE OF NB ROUTE 5
EXIT RAMP TO SODA CREEK Rd**



**DETOUR FOR CLOSURE OF NB ROUTE 5
ENTRANCE RAMP FROM FLUME CREEK Rd**



**DETOUR FOR CLOSURE OF SB ROUTE 5
EXIT RAMP TO FLUME CREEK Rd**

**CONSTRUCTION AREA SIGNS
(PORTABLE SIGNS)**

SIGN No.	CODE	PANEL SIZE (INCH)	REMARKS	No. (EA)
(A) *	SC6-3 (CA)	48" x 48"	"RAMP CLOSED" "DATE-TIME"	4
(B)	M4-10L G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) NORTH	2
(C)	M4-10R G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) NORTH	3
(D)	SC3 (CA) G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) NORTH	1
(E)	M4-10L G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) SOUTH	2
(F)	M4-10R G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) SOUTH	2
(G)	SC3 (CA) G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) SOUTH	1
(H)	M4-10L SP1	48" x 18" 24" x 30"	DETOUR (L+ ARROW) EXIT XXX	2
(I)	M4-10R SP1	48" x 18" 24" x 30"	DETOUR (R+ ARROW) EXIT XXX	5
(J)	SC3 (CA) SP1	48" x 18" 24" x 30"	DETOUR (UP ARROW) EXIT XXX	3
(K)	M4-8A	24" x 18"	END DETOUR	4
TOTAL				29

* PLACE 7 DAYS PRIOR TO RAMP CLOSURE

DETOUR PLAN

NO SCALE

DE-2

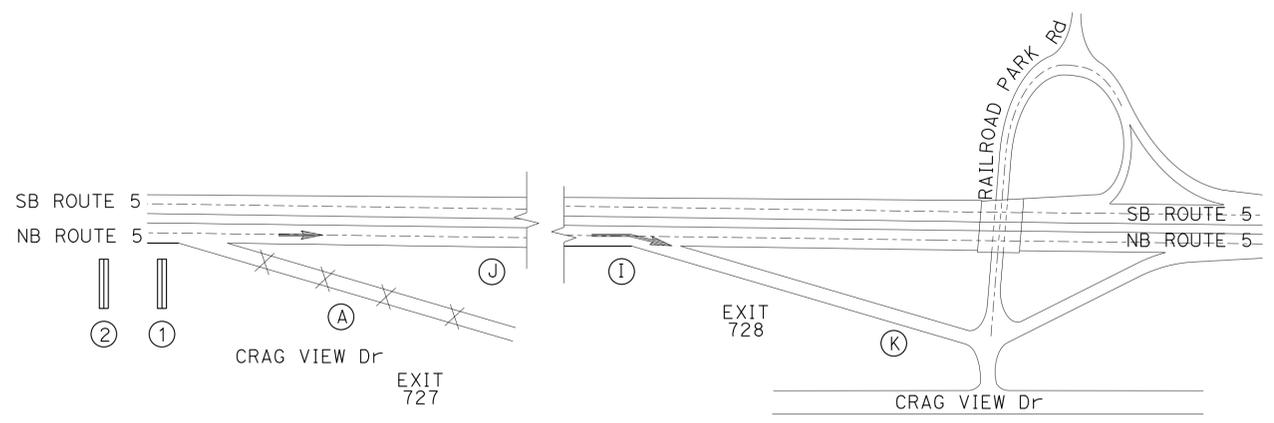
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Michael Conner
 Karlie Smith
 Lance Brown
 02-03-14 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0 0.0/2.7	12	49

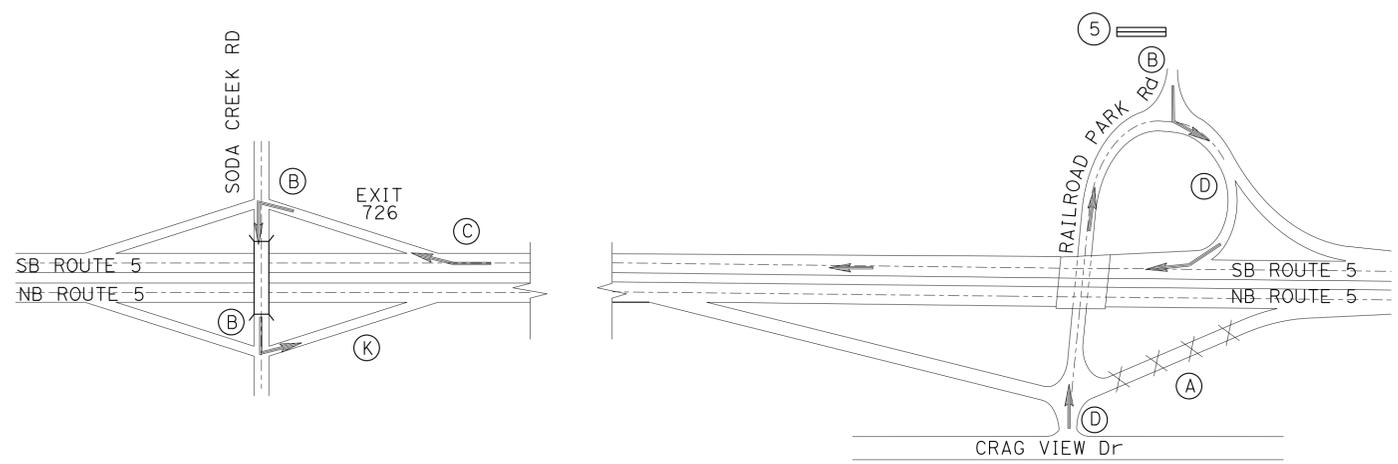
02-03-14
 REGISTERED CIVIL ENGINEER DATE
 02-03-14
 PLANS APPROVAL DATE

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

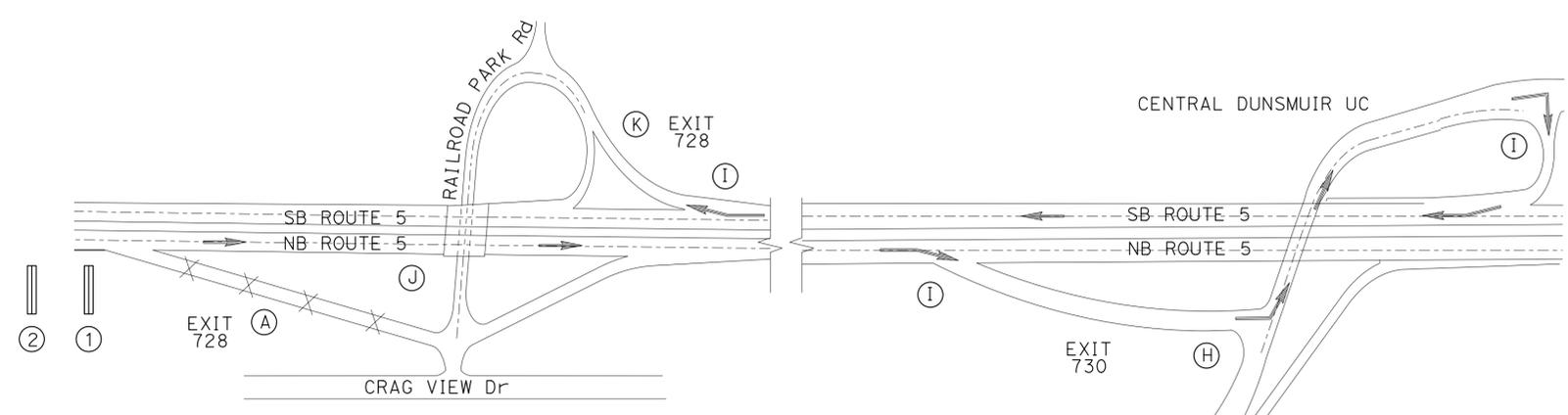
REGISTERED PROFESSIONAL ENGINEER
 MICHAEL A. CONNER
 No. C73123
 Exp. 12-31-14
 CIVIL
 STATE OF CALIFORNIA



**DETOUR FOR CLOSURE OF NB ROUTE 5
EXIT RAMP TO CRAG VIEW Dr**



**DETOUR FOR CLOSURE OF NB ROUTE 5 ENTRANCE
RAMP FROM CRAG VIEW Dr/RAILROAD PARK Rd**



**DETOUR FOR CLOSURE OF NB ROUTE 5 EXIT
RAMP TO CRAG VIEW Dr/RAILROAD PARK Rd**

**CONSTRUCTION AREA SIGNS
(PORTABLE SIGNS)**

SIGN No.	CODE	PANEL SIZE (INCH)	REMARKS	No. (EA)
(A) *	SC6-3 (CA)	48" x 48"	"RAMP CLOSED" "DATE-TIME"	3
(B)	M4-10L G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) NORTH	3
(C)	M4-10R G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) NORTH	1
(D)	SC3 (CA) G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) NORTH	2
(E)	M4-10L G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) SOUTH	
(F)	M4-10R G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) SOUTH	
(G)	SC3 (CA) G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) SOUTH	
(H)	M4-10L SP1	48" x 18" 24" x 30"	DETOUR (L+ ARROW) EXIT XXX	1
(I)	M4-10R SP1	48" x 18" 24" x 30"	DETOUR (R+ ARROW) EXIT XXX	4
(J)	SC3 (CA) SP1	48" x 18" 24" x 30"	DETOUR (UP ARROW) EXIT XXX	2
(K)	M4-8A	24" x 18"	END DETOUR	3
TOTAL				19

* PLACE 7 DAYS PRIOR TO RAMP CLOSURE

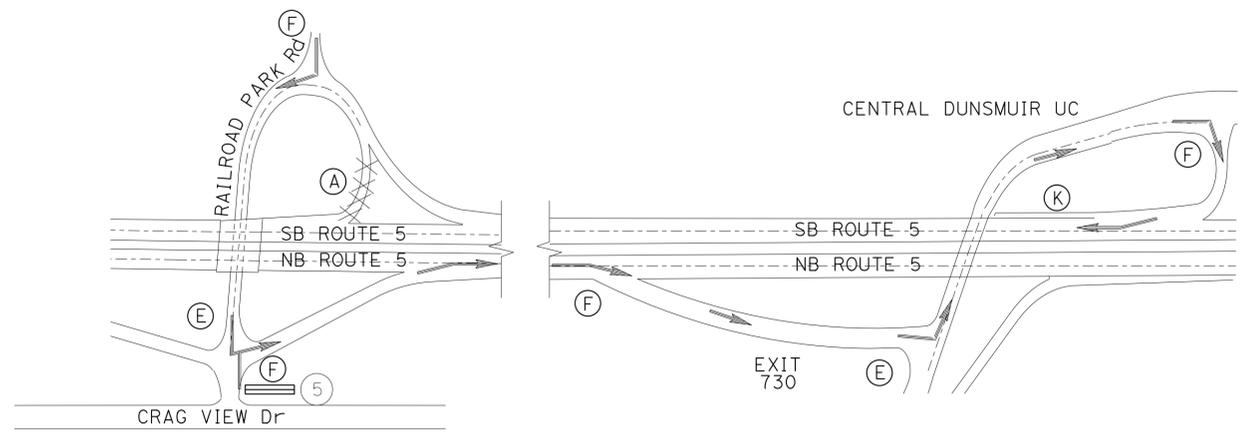
DETOUR PLAN

NO SCALE

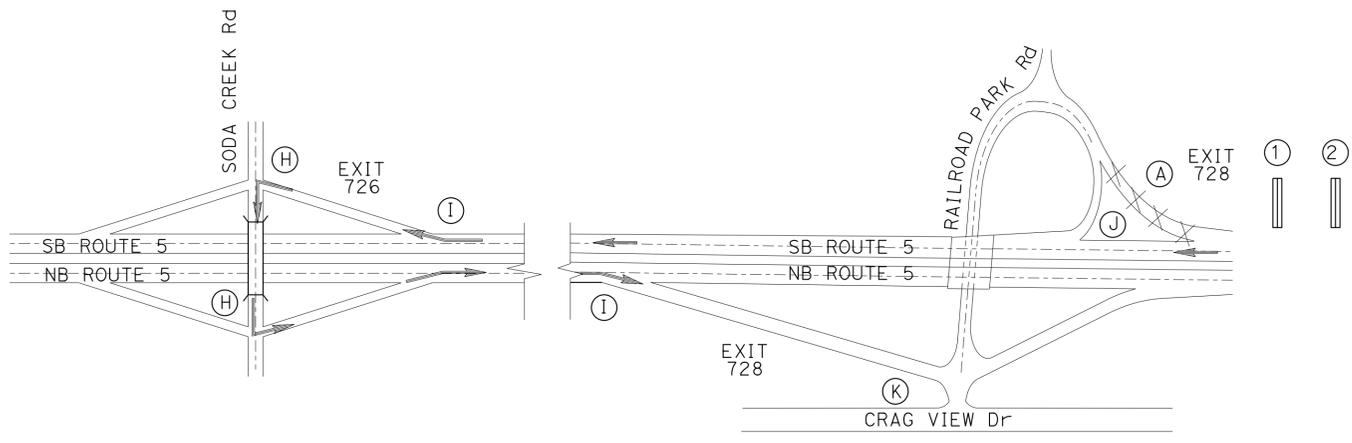
DE-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY MICHAEL CONNER
 CHECKED BY KARLIE SMITH
 REVISED BY DATE REVISIONS
 USERNAME => s115152
 DGN FILE => 24g160mg003.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 0156
 PROJECT NUMBER & PHASE 02-1300-0085-1
 EA 02-4G160

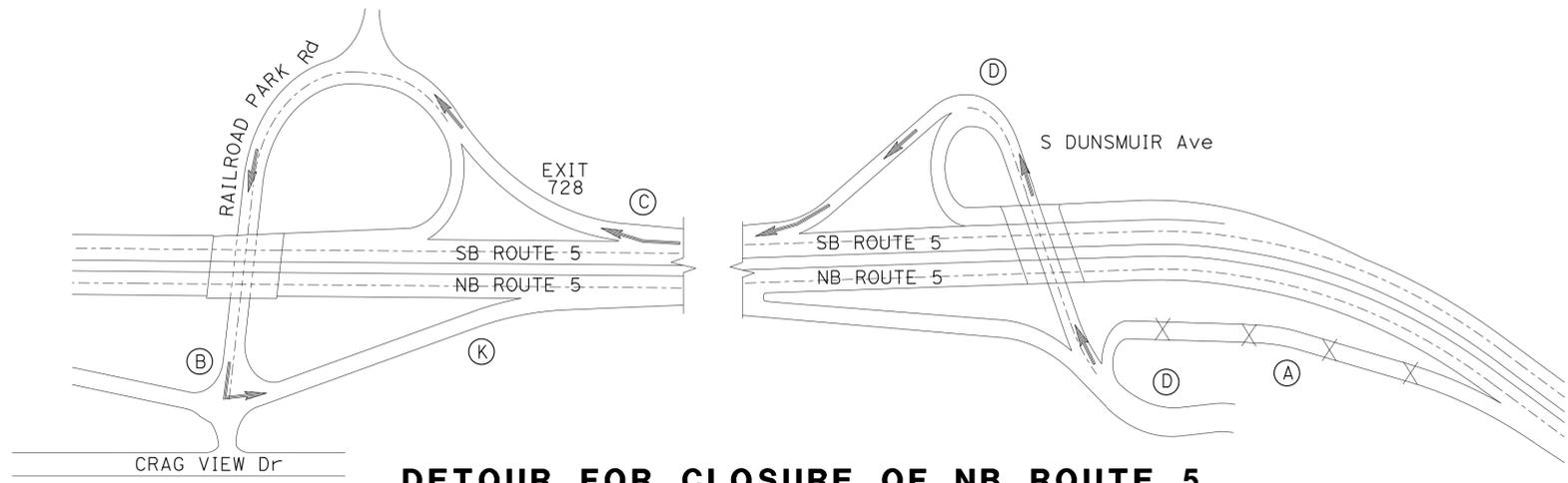
LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54



DETOUR FOR CLOSURE OF SB ROUTE 5 ENTRANCE RAMP FROM CRAG VIEW Dr/RAILROAD PARK Rd



DETOUR FOR CLOSURE OF SB ROUTE 5 EXIT RAMP TO CRAG VIEW Dr/RAILROAD PARK Rd



DETOUR FOR CLOSURE OF NB ROUTE 5 ENTRANCE RAMP FROM S DUNSMUIR Ave

CONSTRUCTION AREA SIGNS (PORTABLE SIGNS)

SIGN No.	CODE	PANEL SIZE (INCH)	REMARKS	No. (EA)
(A) *	SC6-3 (CA)	48" x 48"	"RAMP CLOSED" "DATE-TIME"	3
(B)	M4-10L G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) NORTH	1
(C)	M4-10R G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) NORTH	1
(D)	SC3 (CA) G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) NORTH	2
(E)	M4-10L G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) SOUTH	2
(F)	M4-10R G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) SOUTH	4
(G)	SC3 (CA) G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) SOUTH	
(H)	M4-10L SP1	48" x 18" 24" x 30"	DETOUR (L+ ARROW) EXIT XXX	2
(I)	M4-10R SP1	48" x 18" 24" x 30"	DETOUR (R+ ARROW) EXIT XXX	2
(J)	SC3 (CA) SP1	48" x 18" 24" x 30"	DETOUR (UP ARROW) EXIT XXX	1
(K)	M4-8A	24" x 18"	END DETOUR	3
TOTAL				21

* PLACE 7 DAYS PRIOR TO RAMP CLOSURE

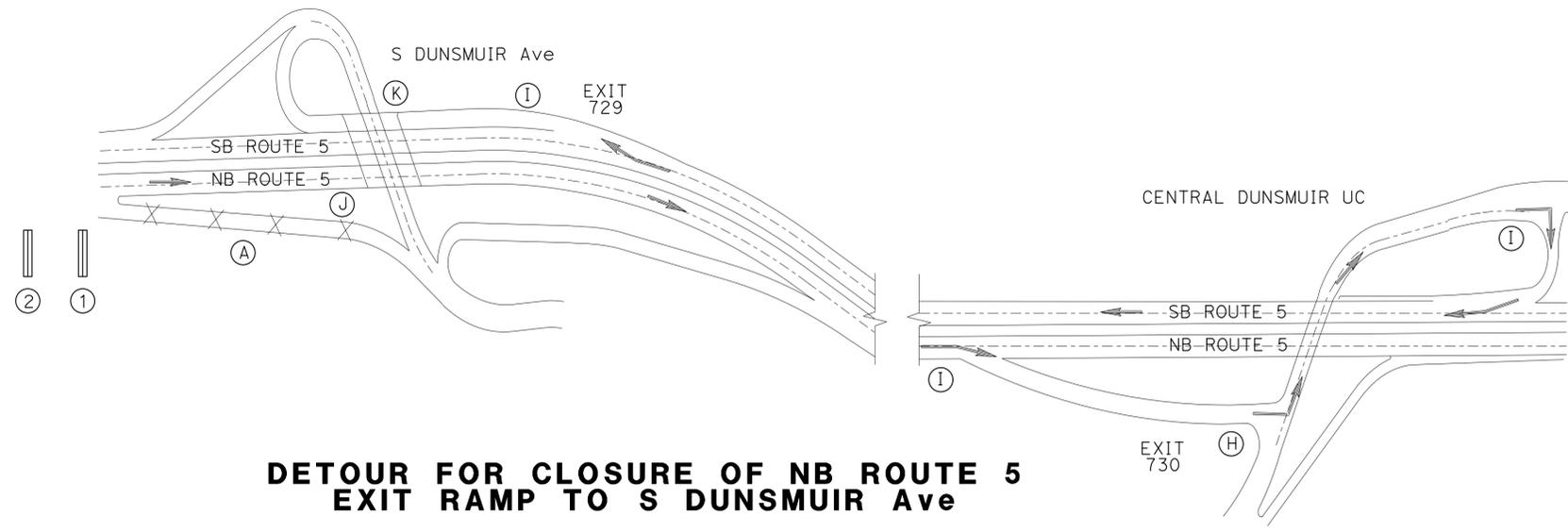
DETOUR PLAN

NO SCALE

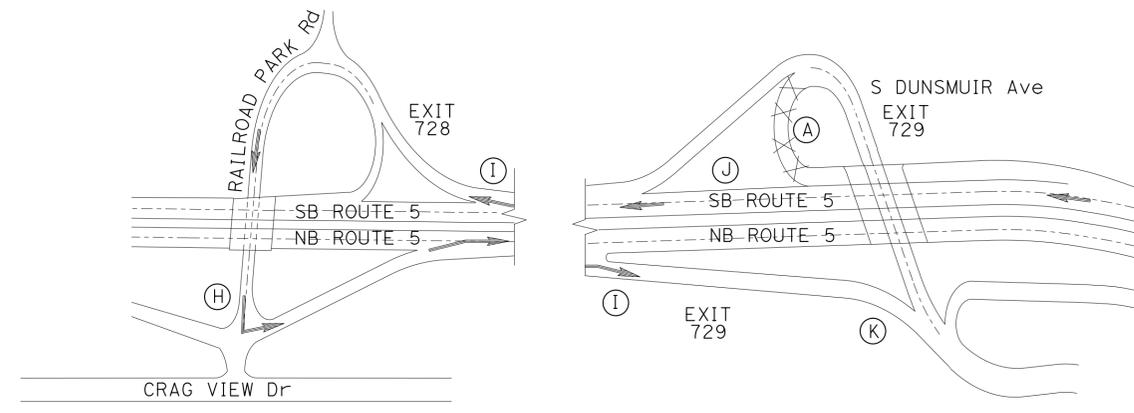
DE-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 CALCULATED/DESIGNED BY
 CHECKED BY
 MICHAEL CONNER
 KARLIE SMITH
 REVISED BY
 DATE REVISED
 USERNAME => s115152
 DGN FILE => 24g160mg004.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 0156
 PROJECT NUMBER & PHASE 02-1300-0085-1
 EA 02-4G160

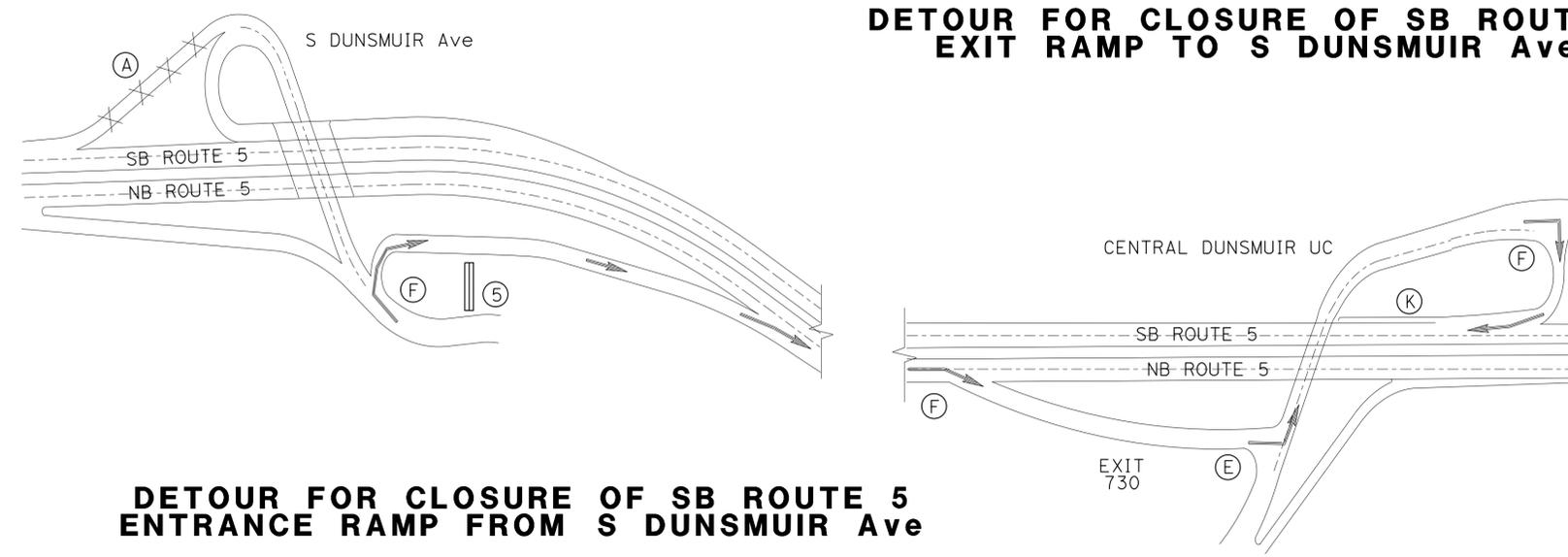
LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54



**DETOUR FOR CLOSURE OF NB ROUTE 5
EXIT RAMP TO S DUNSMUIR Ave**



**DETOUR FOR CLOSURE OF SB ROUTE 5
EXIT RAMP TO S DUNSMUIR Ave**



**DETOUR FOR CLOSURE OF SB ROUTE 5
ENTRANCE RAMP FROM S DUNSMUIR Ave**

**CONSTRUCTION AREA SIGNS
(PORTABLE SIGNS)**

SIGN No.	CODE	PANEL SIZE (INCH)	REMARKS	No. (EA)
(A) *	SC6-3 (CA)	48" x 48"	"RAMP CLOSED" "DATE-TIME"	3
(B)	M4-10L G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) NORTH	
(C)	M4-10R G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) NORTH	
(D)	SC3 (CA) G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) NORTH	
(E)	M4-10L G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) SOUTH	1
(F)	M4-10R G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) SOUTH	3
(G)	SC3 (CA) G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) SOUTH	
(H)	M4-10L SP1	48" x 18" 24" x 30"	DETOUR (L+ ARROW) EXIT XXX	2
(I)	M4-10R SP1	48" x 18" 24" x 30"	DETOUR (R+ ARROW) EXIT XXX	5
(J)	SC3 (CA) SP1	48" x 18" 24" x 30"	DETOUR (UP ARROW) EXIT XXX	2
(K)	M4-8A	24" x 18"	END DETOUR	3
TOTAL				19

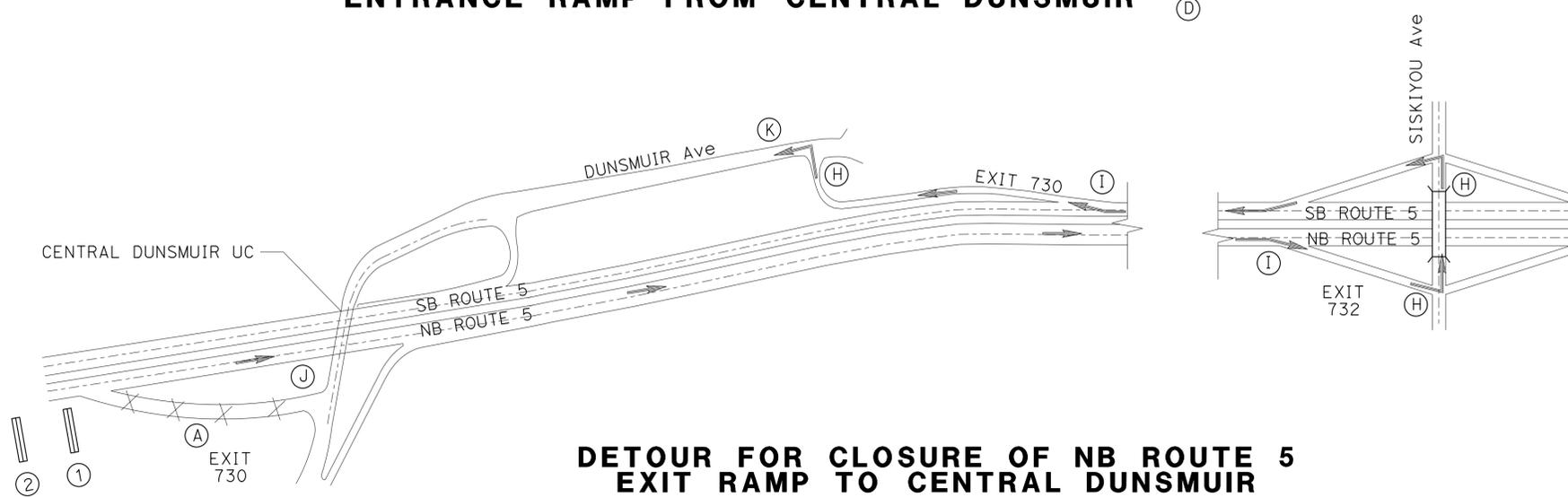
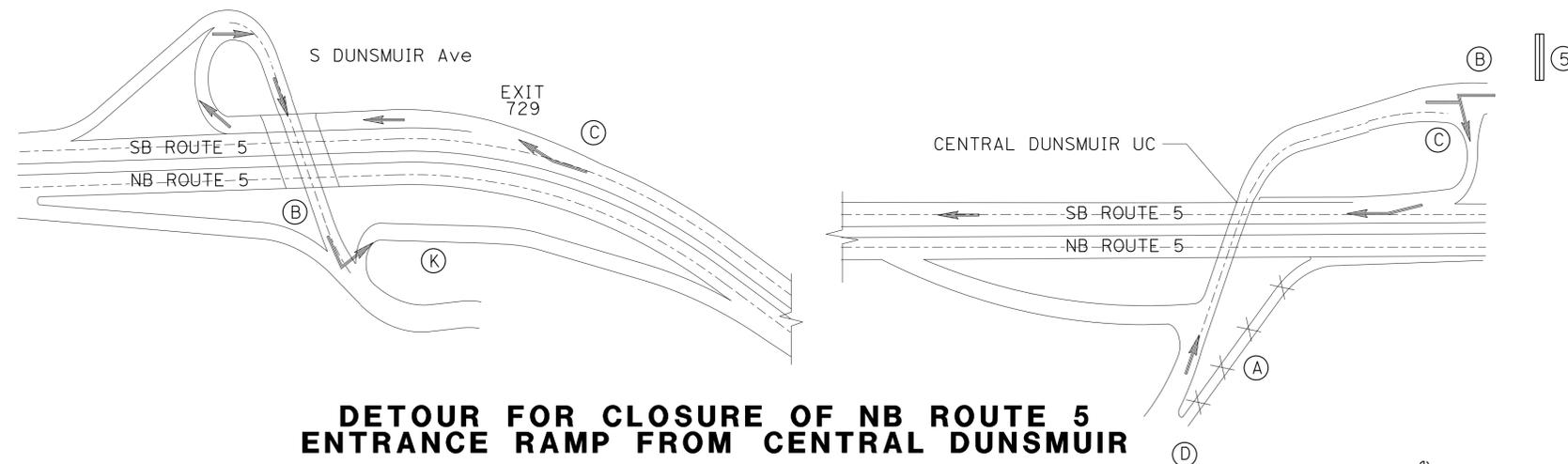
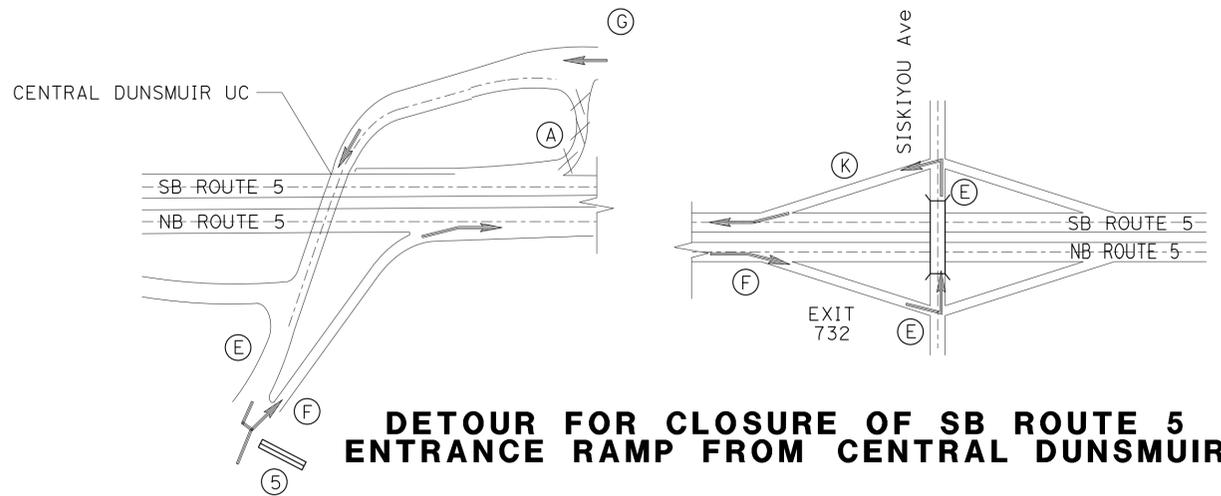
* PLACE 7 DAYS PRIOR TO RAMP CLOSURE

DETOUR PLAN

NO SCALE

DE-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.



**CONSTRUCTION AREA SIGNS
(PORTABLE SIGNS)**

SIGN No.	CODE	PANEL SIZE (INCH)	REMARKS	No. (EA)
(A) *	SC6-3 (CA)	48" x 48"	"RAMP CLOSED" "DATE-TIME"	3
(B)	M4-10L G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) NORTH	3
(C)	M4-10R G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) NORTH	2
(D)	SC3 (CA) G27-2 (5) (CA) M3-1	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) NORTH	1
(E)	M4-10L G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (L+ ARROW) ROUTE SHIELD (5) SOUTH	3
(F)	M4-10R G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (R+ ARROW) ROUTE SHIELD (5) SOUTH	2
(G)	SC3 (CA) G27-2 (5) (CA) M3-3	48" x 18" 24" x 24" 24" x 12"	DETOUR (UP ARROW) ROUTE SHIELD (5) SOUTH	1
(H)	M4-10L SP1	48" x 18" 24" x 30"	DETOUR (L+ ARROW) EXIT XXX	3
(I)	M4-10R SP1	48" x 18" 24" x 30"	DETOUR (R+ ARROW) EXIT XXX	2
(J)	SC3 (CA) SP1	48" x 18" 24" x 30"	DETOUR (UP ARROW) EXIT XXX	1
(K)	M4-8A	24" x 18"	END DETOUR	3
TOTAL				24

* PLACE 7 DAYS PRIOR TO RAMP CLOSURE

DETOUR PLAN

NO SCALE

DE-6

P:\proj\1\02\46160\plans\pse\24g160mg006.dgn

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR
LANCE BROWN

CALCULATED/DESIGNED BY
CHECKED BY

MICHAEL CONNER
KARLIE SMITH

REVISED BY
DATE REVISED

DISTRICT

NOTE:

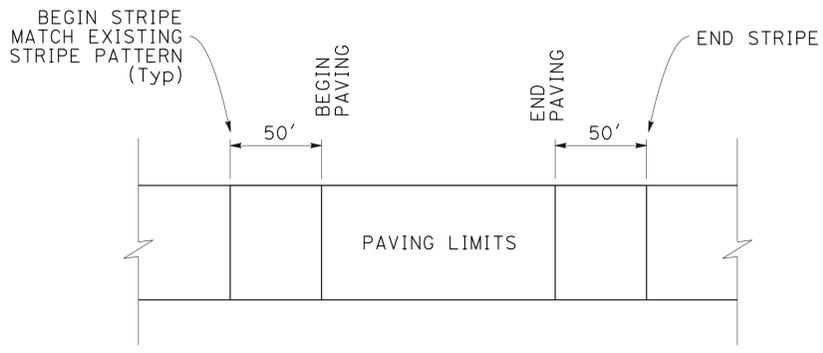
1. NO RUMBLE STRIP TO BE INSTALLED ON CONCRETE BRIDGES OR APPROACH SLABS.

ABBREVIATIONS:

Dir DIRECTION

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

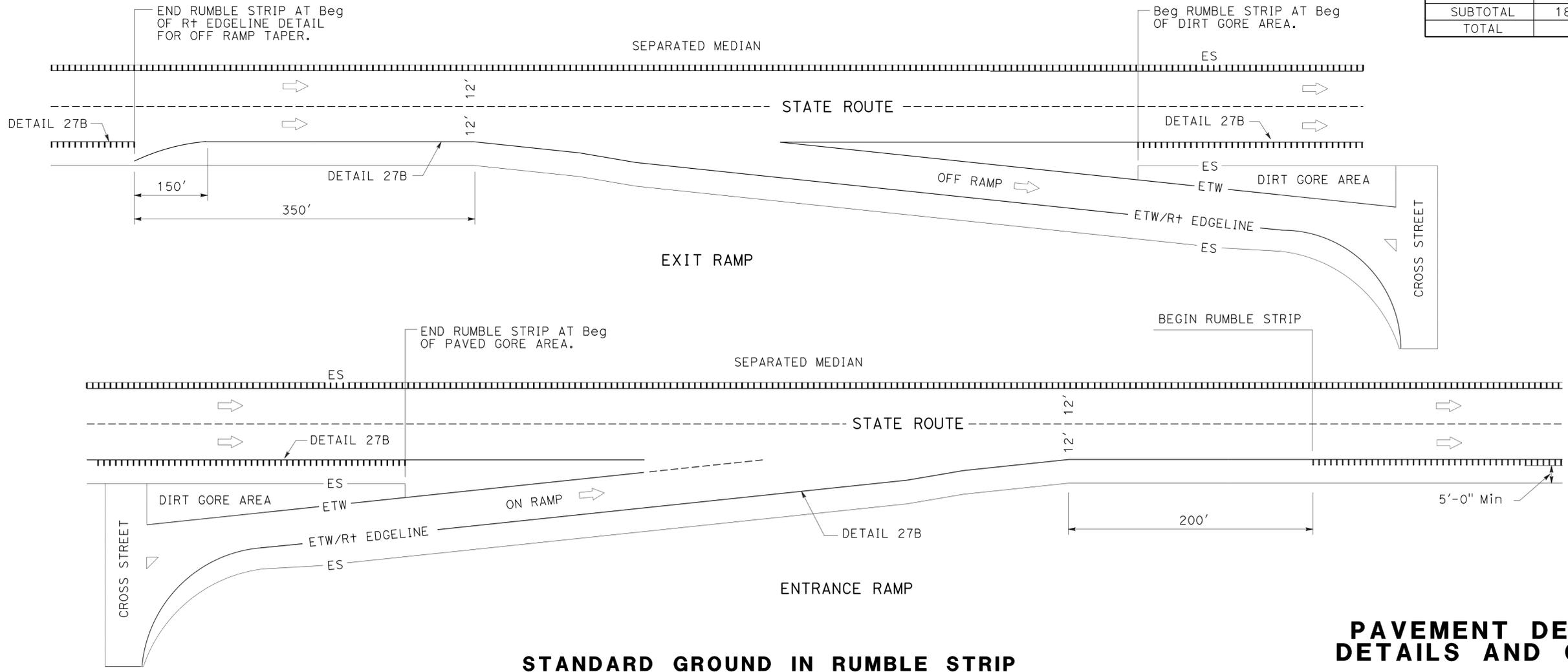
Dir	DESCRIPTION	DETAIL 8	DETAIL 12	DETAIL 14A	DETAIL 25	DETAIL 25A	DETAIL 27B	DETAIL 36	DETAIL 36A	DETAIL 38A
		LF	LF	LF	LF	LF	LF	LF	LF	LF
NB	MAINLINE		57,774	3897	61,664	5596	61,664			200
	RAMPS	2995				11,149	11,149	5924	2995	40
SB	MAINLINE		59,073	2598	61,664	2503	61,664			200
	RAMPS	2890				7636	7636	4478	2890	40
SUBTOTAL		5885	116,847	6495	123,328	26,884	142,113	10,402	5885	480
TOTAL		438,319								



TRAFFIC STRIPE MATCH DETAIL

PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)

DESCRIPTION	TYPE C	TYPE G	TYPE H
	EA	EA	EA
MAINLINE		2434	2909
RAMPS	180	1117	783
SUBTOTAL	180	3551	3692
TOTAL	7423		



STANDARD GROUND IN RUMBLE STRIP

PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDQ-1

REVISOR: MICHAEL CONNER, KARLIE SMITH, LANCE BROWN

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE

Caltrans

LAST REVISION: DATE PLOTTED => 13-FEB-2014
02-03-14 TIME PLOTTED => 12:54



THERMOPLASTIC PAVEMENT MARKING

Dir	Co	PM	DESCRIPTION	EA	SOFT	REMARKS	
NB	Sha	58.50-66.50	MAINLINE	9	27.0	DETAIL A	
		59.24	FLUME CREEK Rd EXIT	2	66.0	TYPE V ARROW	
				1	22.0	STOP	
				1	27.0	LIMIT LINE	
		59.45	FLUME CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
		60.42	CONANT Rd EXIT	2	66.0	TYPE V ARROW	
				2	44.0	STOP	
				1	62.0	LIMIT LINE	
		60.69	CONANT Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
		61.64	SWEETBRIER Ave EXIT	2	66.0	TYPE V ARROW	
				2	44.0	STOP	
				1	60.0	LIMIT LINE	
		61.84	SWEETBRIER Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
		63.46	CASTELLA EXIT	2	66.0	TYPE V ARROW	
				1	22.0	STOP	
				1	52.0	LIMIT LINE	
		63.72	CASTELLA ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
		65.22	SODA CREEK Rd EXIT	2	66.0	TYPE V ARROW	
				1	22.0	STOP	
				1	62.0	LIMIT LINE	
		65.56	SODA CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
	66.00	CRAG VIEW Dr EXIT	2	66.0	TYPE V ARROW		
	66.63	CRAG VIEW Dr/RR PARK Rd EXIT	2	66.0	TYPE V ARROW		
			2	44.0	STOP		
			1	70.0	LIMIT LINE		
			1	31.0	TYPE I 24'-0" ARROW		
	Sis	0.00	MAINLINE	1	2.4	DETAIL B	
		0.50-2.50	MAINLINE	2	6.0	DETAIL A	
		0.55	S DUNSMUIR Ave EXIT	2	66.0	TYPE V ARROW	
		0.91	S DUNSMUIR Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
		2.22	CENTRAL DUNSMUIR EXIT	2	66.0	TYPE V ARROW	
				2	44.0	STOP	
				1	142.0	CROSSWALK	
			1	31.0	TYPE I 24'-0" ARROW		
SB		Sha	58.50-66.50	MAINLINE	9	27.0	DETAIL A
			59.23	FLUME CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
	59.48		FLUME CREEK Rd EXIT	1	80.0	LIMIT LINE	
				2	44.0	STOP	
				2	66.0	TYPE V ARROW	
	60.41		CONANT Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
	60.60		CONANT Rd EXIT	1	56.0	LIMIT LINE	
				2	44.0	STOP	
				2	66.0	TYPE V ARROW	
	61.58		SWEETBRIER Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
	61.88		SWEETBRIER Ave EXIT	1	60.0	LIMIT LINE	
				2	44.0	STOP	
			2	66.0	TYPE V ARROW		
	63.48	CASTELLA ENTRANCE	1	31.0	TYPE I 24'-0" ARROW		
	63.73	CASTELLA EXIT	1	66.0	LIMIT LINE		
			2	44.0	STOP		
			2	66.0	TYPE V ARROW		
	65.31	SODA CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW		
65.55	SODA CREEK Rd EXIT	1	45.0	LIMIT LINE			
		1	22.0	STOP			
		2	66.0	TYPE V ARROW			
66.91	CRAG VIEW Dr/RR PARK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW			
67.00	CRAG VIEW Dr/RR PARK Rd EXIT	2	66.0	TYPE V ARROW			
Sis	0.00	MAINLINE	1	2.4	DETAIL B		
	0.50-2.50	MAINLINE	2	6.0	DETAIL A		
	0.57	S DUNSMUIR Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW		
	0.73	S DUNSMUIR Ave EXIT	1	12.0	LIMIT LINE		
			1	22.0	STOP		
		2	66.0	TYPE V ARROW			
		1	31.0	TYPE I 24'-0" ARROW			
TOTAL					2878.8		

REMOVE THERMOPLASTIC PAVEMENT MARKING

Dir	Co	PM	DESCRIPTION	EA	SOFT	REMARKS
NB	Sha	59.24	FLUME CREEK Rd EXIT	2	66.0	TYPE V ARROW
				1	22.0	STOP
				1	27.0	LIMIT LINE
		59.45	FLUME CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
		60.42	CONANT Rd EXIT	2	66.0	TYPE V ARROW
				2	44.0	STOP
				1	62.0	LIMIT LINE
		60.69	CONANT Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
		61.64	SWEETBRIER Ave EXIT	2	66.0	TYPE V ARROW
				2	44.0	STOP
				1	60.0	LIMIT LINE
		61.84	SWEETBRIER Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
		63.46	CASTELLA EXIT	2	66.0	TYPE V ARROW
				1	22.0	STOP
				1	52.0	LIMIT LINE
		63.72	CASTELLA ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
		65.22	SODA CREEK Rd EXIT	2	66.0	TYPE V ARROW
				1	22.0	STOP
				1	62.0	LIMIT LINE
		65.56	SODA CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
		66.00	CRAG VIEW Dr EXIT	2	66.0	TYPE V ARROW
	66.63	CRAG VIEW Dr/RR PARK Rd EXIT	2	66.0	TYPE V ARROW	
			2	44.0	STOP	
			1	70.0	LIMIT LINE	
			1	31.0	TYPE I 24'-0" ARROW	
	Sis	0.55	S DUNSMUIR Ave EXIT	2	66.0	TYPE V ARROW
		0.91	S DUNSMUIR Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
		2.22	CENTRAL DUNSMUIR EXIT	2	66.0	TYPE V ARROW
				2	44.0	STOP
				1	142.0	CROSSWALK
				1	31.0	TYPE I 24'-0" ARROW
		2.58	CENTRAL DUNSMUIR ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
	SB	Sha	59.23	FLUME CREEK Rd ENTRANCE	1	31.0
59.48			FLUME CREEK Rd EXIT	1	80.0	LIMIT LINE
				2	44.0	STOP
				2	66.0	TYPE V ARROW
60.41			CONANT Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
60.60			CONANT Rd EXIT	1	56.0	LIMIT LINE
				2	44.0	STOP
				2	66.0	TYPE V ARROW
61.58			SWEETBRIER Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW
61.88			SWEETBRIER Ave EXIT	1	60.0	LIMIT LINE
				2	44.0	STOP
				2	66.0	TYPE V ARROW
63.48		CASTELLA ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
63.73		CASTELLA EXIT	1	66.0	LIMIT LINE	
			2	44.0	STOP	
			2	66.0	TYPE V ARROW	
65.31		SODA CREEK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
65.55		SODA CREEK Rd EXIT	1	45.0	LIMIT LINE	
		1	22.0	STOP		
		2	66.0	TYPE V ARROW		
66.91	CRAG VIEW Dr/RR PARK Rd ENTRANCE	1	31.0	TYPE I 24'-0" ARROW		
67.00	CRAG VIEW Dr/RR PARK Rd EXIT	2	66.0	TYPE V ARROW		
Sis	0.57	S DUNSMUIR Ave ENTRANCE	1	31.0	TYPE I 24'-0" ARROW	
	0.73	S DUNSMUIR Ave EXIT	1	12.0	LIMIT LINE	
			1	22.0	STOP	
			2	66.0	TYPE V ARROW	
		1	31.0	TYPE I 24'-0" ARROW		
TOTAL					2808.0	

ABBREVIATIONS:
Dir DIRECTION

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Michael Conner
 Karlie Smith
 Lance Brown
 02-03-14 TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0 0.0/2.7	19	49

02-03-14
REGISTERED CIVIL ENGINEER DATE

02-03-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL A. CONNER
No. C73123
Exp. 12-31-14
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.

NOTE:

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

ABBREVIATIONS:

RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
Dir DIRECTION

GUARDRAIL ITEMS

Dir	Co	POST MILE	SIDE	RECONSTRUCT GUARDRAIL ***	RECONSTRUCT GUARDRAIL (7' POST) ***	RECONSTRUCT TERMINAL SYSTEM	RECONSTRUCT END ANCHOR ASSEMBLY (TYPE SFT)	ADJUST GUARDRAIL	ALTERNATIVE FLARED TERMINAL SYSTEM	END ANCHOR ASSEMBLY (TYPE SFT)	Exist BURIED POST END ANCHOR (N) *	CONNECT TO Exist (N)	RESET OBJECT MARKER	TREATED WOOD WASTE	REMARKS
				LF	LF	EA	EA	LF	EA	EA	EA	EA	EA	EA	
NB	Sha	59.24	R+				1	525				1	1		FLUME CREEK Rd EXIT RAMP **
		60.42	R+				1	75				1	1		CONANT Rd EXIT RAMP **
		61.64	R+				1	625				1	1		SWEETBRIER Ave EXIT RAMP **
		61.84	R+			SRT	1	275				1	1		SWEETBRIER Ave ENTRANCE RAMP
		65.56	R+	275	250	SRT					1	1	6827		SODA CREEK Rd ENTRANCE RAMP **
		66.00	R+					200					1		CRAG VIEW Dr EXIT RAMP
		66.63	L+				1	150					1		CRAG VIEW Dr/RR PARK Rd EXIT RAMP
		66.63	R+			SRT	1	200					1		CRAG VIEW Dr/RR PARK Rd EXIT RAMP
		66.95	R+	200	100	ET-PLUS						1	1	3821	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP **
		0.55	R+							525			2	1	
	0.91	R+			SRT	1	438					1			SOUTH DUNSMUIR ENTRANCE RAMP
	2.22	R+	500	50							1	1	6727	CENTRAL DUNSMUIR EXIT **	
	SB	Sha	59.23	R+	100	25	SRT	1					1	1	1566
61.58			L+	200	75	SRT	1					1	1	3470	SWEETBRIER Ave ENTRANCE RAMP
65.55			R+			ET-PLUS	1	212					1		SODA CREEK Rd EXIT RAMP
66.91			R+	500	75	SRT						1	1	7078	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP **
67.00			R+	500	25		1					1	1	6376	CRAG VIEW Dr/RR PARK Rd EXIT RAMP **
67.00		R+					125		1	1		1		CRAG VIEW Dr/RR PARK Rd EXIT RAMP	
0.69		R+			SRT					1		1		SOUTH DUNSMUIR EXIT RAMP (UNDER I-5)	
0.69	R+			SRT						1		1	SOUTH DUNSMUIR ENTRANCE RAMP (UNDER I-5)		
TOTAL				2275	600	11	12	3750	1	1	1	20	35,865		

* SEE BURIED POST END ANCHOR DETAIL ON SHEET C-3
 ** RECONSTRUCT/ADJUST GUARDRAIL MEASUREMENTS STARTED AT GORE
 *** USE STEEL POSTS FOR RECONSTRUCT GUARDRAIL

ROADWAY QUANTITIES

Dir	Co	POST MILE LIMITS	DESCRIPTION	RHMA-G	SHOULDER BACKING	TACK COAT
				TON	TON	TON
NB	Sha	58.00-67.02	MAINLINE	14,271		60.9
		59.24	RAMP-FLUME CREEK Rd EXIT	190	30.8	1.2
		59.45	RAMP-FLUME CREEK Rd ENTRANCE	157	33.3	1.0
		60.42	RAMP-CONANT Rd EXIT	173	31.9	1.1
		60.69	RAMP-CONANT Rd ENTRANCE	254	52.2	1.5
		61.64	RAMP-SWEETBRIER Ave EXIT	222	39.4	1.4
		61.84	RAMP-SWEETBRIER Ave ENTRANCE	159	24.8	1.0
		62.36	RAMP-VISTA POINT EXIT	89		0.5
		62.49	RAMP-VISTA POINT ENTRANCE	58		0.4
		63.46	RAMP-CASTELLA EXIT	165	37.5	1.0
		63.72	RAMP-CASTELLA ENTRANCE	170	43.9	1.0
		65.22	RAMP-SODA CREEK Rd EXIT	237	57.3	1.4
		65.56	RAMP-SODA CREEK Rd ENTRANCE	185	40.6	1.1
		66.00	RAMP-CRAG VIEW Dr EXIT	243	56.1	1.5
		66.63	RAMP-CRAG VIEW Dr/RR PARK Rd EXIT	236	69.2	1.4
		66.95	RAMP-CRAG VIEW Dr/RR PARK Rd ENTRANCE	174	37.0	1.1
		0.00-2.65	MAINLINE	4139		17.6
		0.55	RAMP-S DUNSMUIR Ave EXIT	188	44.7	1.1
		0.91	RAMP-S DUNSMUIR Ave ENTRANCE	244	52.4	1.5
	2.22	RAMP-CENTRAL DUNSMUIR EXIT	305	67.9	1.9	
2.58	RAMP-CENTRAL DUNSMUIR ENTRANCE	126	29.7	0.8		
NB SUBTOTAL				21,985	748.7	100.4

ROADWAY QUANTITIES (CONTINUED)

Dir	Co	POST MILE LIMITS	DESCRIPTION	RHMA-G	SHOULDER BACKING	TACK COAT	
				TON	TON	TON	
SB	Sha	58.00-67.02	MAINLINE	14,326		61.1	
		59.23	RAMP-FLUME CREEK Rd ENTRANCE	228	10.3	1.4	
		59.48	RAMP-FLUME CREEK Rd EXIT	214	38.6	1.3	
		60.41	RAMP-CONANT Rd ENTRANCE	177	26.5	1.1	
		60.60	RAMP-CONANT Rd EXIT	193	35.1	1.2	
		61.58	RAMP-SWEETBRIER Ave ENTRANCE	229	43.1	1.4	
		61.88	RAMP-SWEETBRIER Ave EXIT	218	46.7	1.3	
		63.48	RAMP-CASTELLA ENTRANCE	190	32.9	1.2	
		63.73	RAMP-CASTELLA EXIT	256	51.7	1.6	
		65.31	RAMP-SODA CREEK Rd ENTRANCE	172	37.3	1.0	
		65.55	RAMP-SODA CREEK Rd EXIT	234	40.1	1.4	
		66.91	RAMP-CRAG VIEW Dr/RR PARK Rd ENTRANCE	587	68.5	3.6	
		67.00	RAMP-CRAG VIEW Dr/RR PARK Rd EXIT				
		0.00-2.65	MAINLINE	4139		17.6	
		0.57	RAMP-S DUNSMUIR Ave ENTRANCE	361	61.8	2.2	
		0.73	RAMP-S DUNSMUIR Ave EXIT				
		2.62	RAMP-CENTRAL DUNSMUIR ENTRANCE	108	22.1	0.7	
	DIKE				59		
	NB SUBTOTAL				21,986	748.7	100.4
TOTAL				43,676	1293.4	198.5	

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 FUNCTIONAL SUPERVISOR LANCE BROWN
 REVISIONS BY MICHAEL CONNER / KARLIE SMITH
 CALCULATED/DESIGNED BY / CHECKED BY
 REVISIONS BY / DATE REVISIONS
 USERNAME => s115152
 DGN FILE => 24g160pa001.dgn
 BORDER LAST REVISED 7/2/2010
 RELATIVE BORDER SCALE IS IN INCHES
 UNIT 0156
 PROJECT NUMBER & PHASE 02-1300-0085-1
 EA 02-4G160

LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0 0.0/2.7	20	49

02-03-14
REGISTERED CIVIL ENGINEER DATE

02-03-14
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:

- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
- EXACT LOCATIONS OF REPLACE ASPHALT CONCRETE SURFACING TO BE DETERMINED BY THE ENGINEER.

DIKE QUANTITIES

Dir	Co	POST MILE LIMITS	PLACE HMA DIKE (TYPE F)	REMOVE AC DIKE	COMMENTS
			LF	LF	
NB	SHA	59.25-59.36	530	530	FLUME CREEK Rd EXIT RAMP
		61.66-61.77	550	550	SWEETBREIR Ave EXIT RAMP
		65.43-65.53	485	485	SODA CREEK Rd ENTRANCE RAMP
		66.00-66.05	238	238	CRAG VIEW Dr EXIT RAMP
		66.92-66.95	152	152	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP
		0.58-0.72	502	502	S DUNSMUIR Ave EXIT RAMP
SB	SHA	0.83-0.91	430	430	S DUNSMUIR Ave ENTRANCE RAMP
		2.25-2.36	500	500	CENTRAL DUNSMUIR EXIT RAMP
		66.90-66.91	385	385	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP
		66.90-67.00	475	475	CRAG VIEW Dr/RR PARK Rd EXIT RAMP
		66.97-67.00	162	162	CRAG VIEW Dr/RR PARK Rd EXIT RAMP
TOTAL			4409	4409	

RUMBLE STRIP

Dir	Co	POST MILE LIMITS	Sta	REMARKS
NB	Sha	58.00-67.02	954	MEDIAN AND OUTSIDE
	Sis	0.00-2.65	280	MEDIAN AND OUTSIDE
SB	Sha	58.00-67.02	954	MEDIAN AND OUTSIDE
	Sis	0.00-2.65	280	MEDIAN AND OUTSIDE
TOTAL			2468	

REPLACE ASPHALT CONCRETE SURFACING

Dir	Co	POST MILE LIMITS	(N) No. OF DIGOUTS	(N) Avg LENGTH	(N) WIDTH	(N) DEPTH	REPLACE AC SURFACING CY
				LF	LF	LF	
NB	Sha	58.00-67.02	70	100	4	0.33	343
	Sis	0.00-2.65	20	100	4	0.33	98
SB	Sha	58.00-67.02	70	100	4	0.33	343
	Sis	0.00-2.65	20	100	4	0.33	98
TOTAL							882

Exist DRAINAGE (N)

Dir	Co	POST MILE LIMITS	DI	SLOTTED DRAIN
			EA	LF
NB	Sha	58.00-67.02	52	238
	Sis	0.00-2.65	18	154
SB	Sha	58.00-67.02	56	479
	Sis	0.00-2.65	13	155

COLD PLANE ASPHALT CONCRETE PAVEMENT

Dir	Co	POST MILE	(N) LENGTH	(N) WIDTH	AREA	REMARKS		
			LF	LF	SQYD			
NB	Sha	58.00-67.02	47,620	39-41	208,643	NB MAINLINE		
		59.24	740	0-34	1429	FLUME CREEK Rd EXIT RAMP GORE TAPER		
			120	20-40	378	FLUME CREEK Rd EXIT RAMP TERMINI TAPER		
		59.45	540	0-28	884	FLUME CREEK Rd ENTRANCE RAMP GORE TAPER		
			20	34	76	FLUME CREEK Rd ENTRANCE RAMP TERMINI TAPER		
		60.42	545	0-36	1112	CONANT Rd EXIT RAMP GORE TAPER		
			20	83	184	CONANT Rd EXIT RAMP TERMINI TAPER		
		60.69	610	0-36	1342	CONANT Rd ENTRANCE RAMP GORE TAPER		
			20	81	180	CONANT Rd ENTRANCE RAMP TERMINI TAPER		
		61.64	670	0-36	1384	SWEETBRIER Ave EXIT RAMP GORE TAPER		
			20	85	189	SWEETBRIER Ave EXIT RAMP TERMINI TAPER		
		61.84	560	0-36	1151	SWEETBRIER Ave ENTRANCE RAMP GORE TAPER		
			20	85	189	SWEETBRIER Ave ENTRANCE RAMP TERMINI TAPER		
		62.36	670	0-35	1303	VISTA POINT EXIT RAMP GORE TAPER		
		62.49	450	0-34	850	VISTA POINT ENTRANCE RAMP GORE TAPER		
		63.46	460	0-34	904	CASTELLA EXIT RAMP GORE TAPER		
			20	72	160	CASTELLA EXIT RAMP TERMINI TAPER		
		63.72	550	0-24	778	CASTELLA ENTRANCE RAMP GORE TAPER		
			20	75	167	CASTELLA ENTRANCE RAMP TERMINI TAPER		
		65.22	740	0-30	1340	SODA CREEK Rd EXIT RAMP GORE TAPER		
			20	80	178	SODA CREEK Rd EXIT RAMP TERMINI TAPER		
		65.56	510	0-28	856	SODA CREEK Rd ENTRANCE RAMP GORE TAPER		
			20	95	211	SODA CREEK Rd ENTRANCE RAMP TERMINI TAPER		
		66.00	785	0-32	1431	CRAG VIEW Dr EXIT RAMP GORE TAPER		
			20	24	53	CRAG VIEW Dr EXIT RAMP TERMINI TAPER		
		66.63	695	0-25	990	CRAG VIEW Dr/RR PARK Rd EXIT RAMP GORE TAPER		
			20	94	209	CRAG VIEW Dr/RR PARK Rd EXIT RAMP TERMINI TAPER		
		66.95	390	0-34	759	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP GORE TAPER		
			20	117	260	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP TERMINI TAPER		
		Sis	Sis	0.00-2.65	13,992	38-39	60,512	NB MAINLINE
				0.55	680	0-30	1156	S DUNSMUIR Ave EXIT RAMP GORE TAPER
					20	24	53	S DUNSMUIR Ave EXIT RAMP TERMINI TAPER
				0.91	660	0-32	1200	S DUNSMUIR Ave ENTRANCE RAMP GORE TAPER
					20	35	78	S DUNSMUIR Ave ENTRANCE RAMP TERMINI TAPER
				2.22	730	0-32	1316	CENTRAL DUNSMUIR EXIT RAMP GORE TAPER
					20	90	200	CENTRAL DUNSMUIR EXIT RAMP TERMINI TAPER
				2.58	535	0-24	927	CENTRAL DUNSMUIR ENTRANCE RAMP GORE TAPER
					310	2	69	CENTRAL DUNSMUIR ENTRANCE RAMP LEFT CURB TAPER
					100	15-46	316	CENTRAL DUNSMUIR ENTRANCE RAMP TERMINI TAPER
		NB TOTAL					293,417	

COLD PLANE ASPHALT CONCRETE PAVEMENT (CONTINUED)

Dir	Co	POST MILE	(N) LENGTH	(N) WIDTH	AREA	REMARKS		
			LF	LF	SQYD			
SB	Sha	58.00-67.02	47,620	39-41	209,446	SB MAINLINE		
		59.23	570	0-28	913	FLUME CREEK ENTRANCE RAMP GORE TAPER		
			20	150	333	FLUME CREEK ENTRANCE RAMP TERMINI TAPER		
		59.48	420	0-36	884	FLUME CREEK Rd EXIT RAMP GORE TAPER		
			20	140	311	FLUME CREEK Rd EXIT RAMP TERMINI TAPER		
		60.41	750	0-36	1553	CONANT Rd ENTRANCE RAMP GORE TAPER		
			20	54	120	CONANT Rd ENTRANCE RAMP TERMINI TAPER		
		60.60	740	0-32	1351	CONANT Rd EXIT RAMP GORE TAPER		
			20	58	129	CONANT Rd EXIT RAMP TERMINI TAPER		
		61.58	730	0-36	1487	SWEETBRIER Ave ENTRANCE RAMP GORE TAPER		
			20	80	178	SWEETBRIER Ave ENTRANCE RAMP TERMINI TAPER		
		61.88	630	0-34	1226	SWEETBRIER Ave EXIT RAMP GORE TAPER		
			20	70	156	SWEETBRIER Ave EXIT RAMP TERMINI TAPER		
		63.48	640	0-30	1124	CASTELLA ENTRANCE RAMP GORE TAPER		
			20	120	267	CASTELLA ENTRANCE RAMP TERMINI TAPER		
		63.73	740	0-40	1662	CASTELLA EXIT RAMP GORE TAPER		
			20	95	211	CASTELLA EXIT RAMP TERMINI TAPER		
		65.31	740	0-24	1040	SODA CREEK Rd ENTRANCE RAMP GORE TAPER		
			20	65	144	SODA CREEK Rd ENTRANCE RAMP TERMINI TAPER		
		65.55	734	0-38	1581	SODA CREEK Rd EXIT RAMP GORE TAPER		
			20	90	200	SODA CREEK Rd EXIT RAMP TERMINI TAPER		
		66.91	380	0-48	1040	CRAG VIEW Dr/RR PARK Rd ENTRANCE RAMP GORE TAPER		
			24	115	609	CRAG VIEW Dr/RR PARK Rd ENTRANCE/EXIT RAMP UNDER OC		
			20	42	368	CRAG VIEW Dr/RR PARK Rd ENTRANCE/EXIT RAMP TERMINI TAPER		
		67.00	725	0-30	1248	CRAG VIEW Dr/RR PARK Rd EXIT RAMP GORE TAPER		
		Sis	Sis	0.00-2.65	13,992	35-39	60,506	SB MAINLINE
				0.57	610	0-38	1372	S DUNSMUIR Ave ENTRANCE RAMP GORE TAPER
					32	130	747	S DUNSMUIR Ave ENTRANCE/EXIT RAMP UNDER OC
					20	42	93	S DUNSMUIR Ave ENTRANCE/EXIT RAMP TERMINI TAPER
				0.73	165	32	551	S DUNSMUIR Ave EXIT RAMP GORE TAPER
2.62	532			0-30	953	CENTRAL DUNSMUIR ENTRANCE RAMP GORE TAPER		
	20			90	200	CENTRAL DUNSMUIR ENTRANCE RAMP TERMINI TAPER		
SB TOTAL						292,003		
TOTAL					585,420			

SUMMARY OF QUANTITIES

P:\proj\1\02\4G160\plans\pse\24g160ua001.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS ENGINEERING
 IAN TURNBULL
 JEREMIAH PEARCE
 KEITH KOEPPEN
 10/1/13
 11/13/13
 12/30/13
 KK
 KK
 KK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
2	Sha, Sis	5	58.0/67.0, 0.0/2.7	21	49

REGISTERED ENGINEER 02-03-14 DATE
 KEITH KOEPPEN
 No. E19870
 Exp. 3-31-16
 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA
 PLANS APPROVAL DATE 02-03-14

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.
- Exist UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

LEGEND:

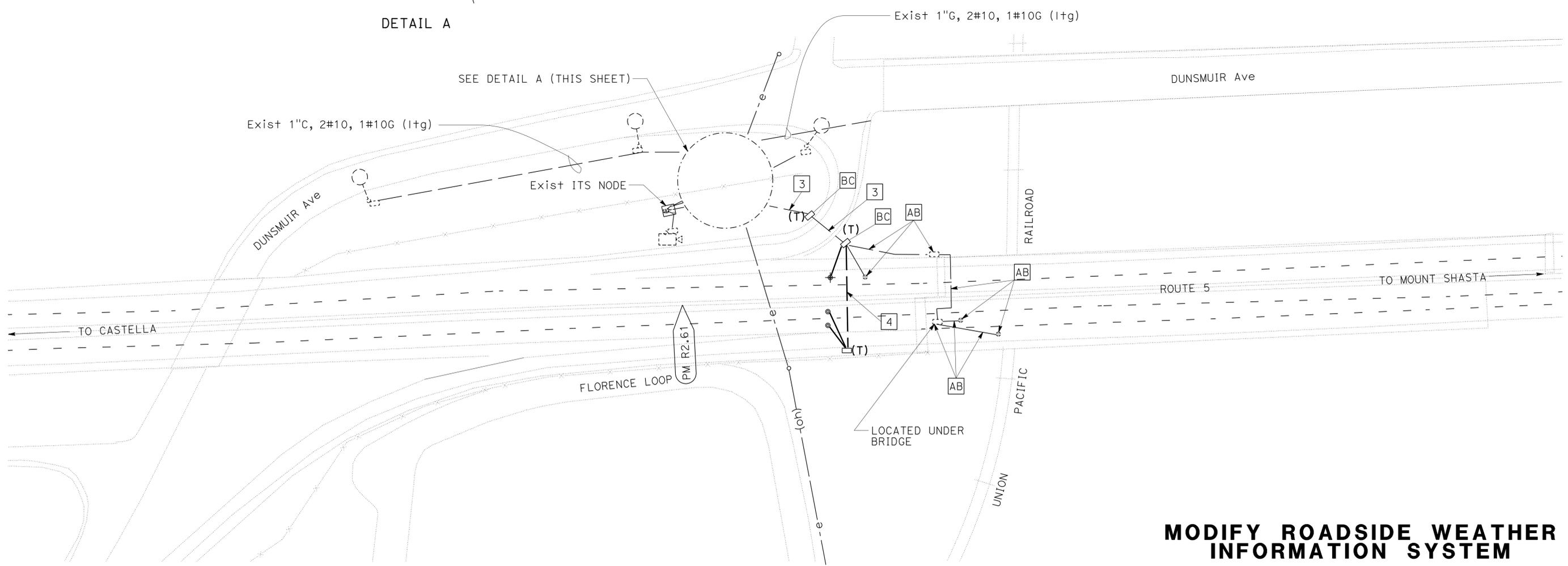
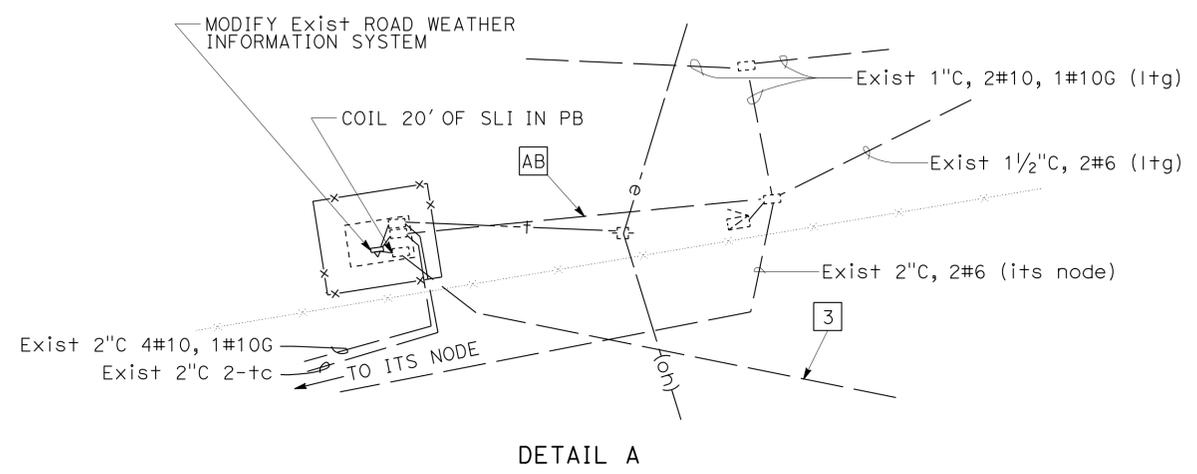
- IN PAVEMENT SENSOR
- ⊕ IN PAVEMENT SENSOR WITH SUBSURFACE PROBE

ABBREVIATIONS:

- SLI SENSOR LEAD-IN CABLE
- TCS TRAFFIC COUNT STATION
- t c EXISTING TELEPHONE CABLE
- ITS INTELLIGENT TRANSPORTATION SYSTEM

NOTES (THIS SHEET):

- 3 Exist 3"C, 4 SLI, REMOVE 4 SLI, REPLACE WITH 3 NEW SLI.
- 4 2"C, 2 SLI.



MODIFY ROADSIDE WEATHER INFORMATION SYSTEM

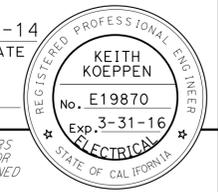
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E-1

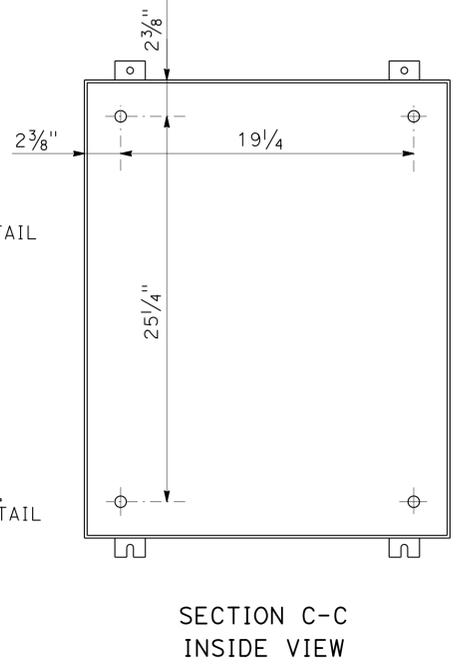
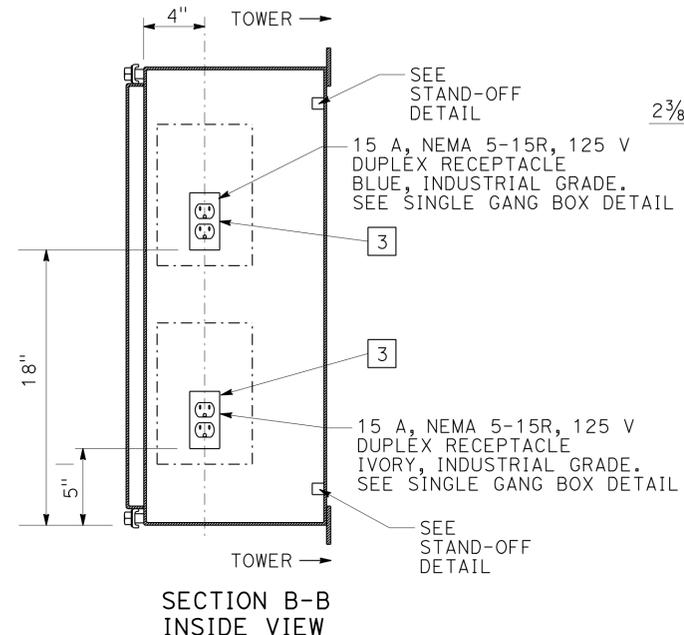
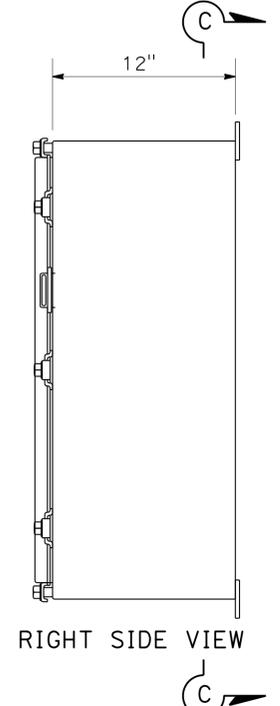
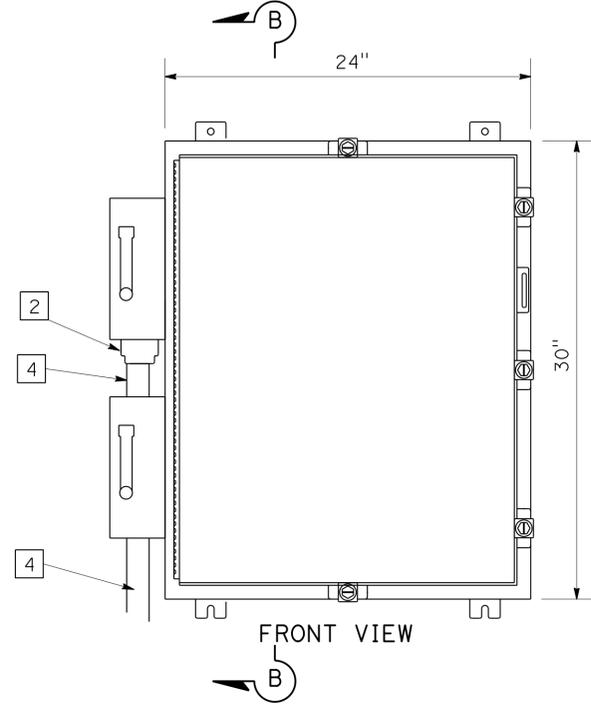
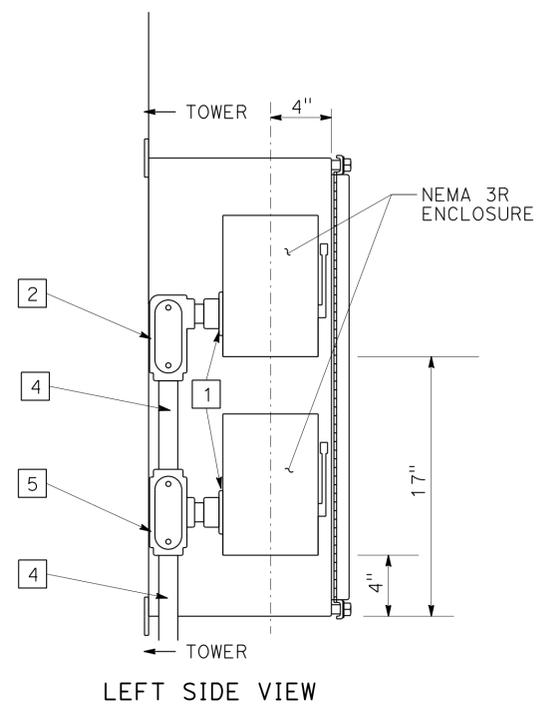
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
2	Sha, Sis	5	58.0/67.0, 0.0/2.7	25	49

REGISTERED ENGINEER	02-03-14	DATE
PLANS APPROVAL DATE	02-03-14	

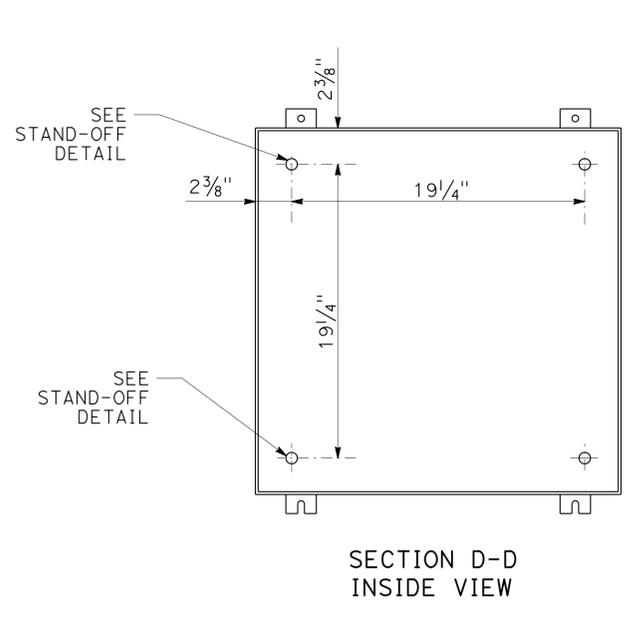
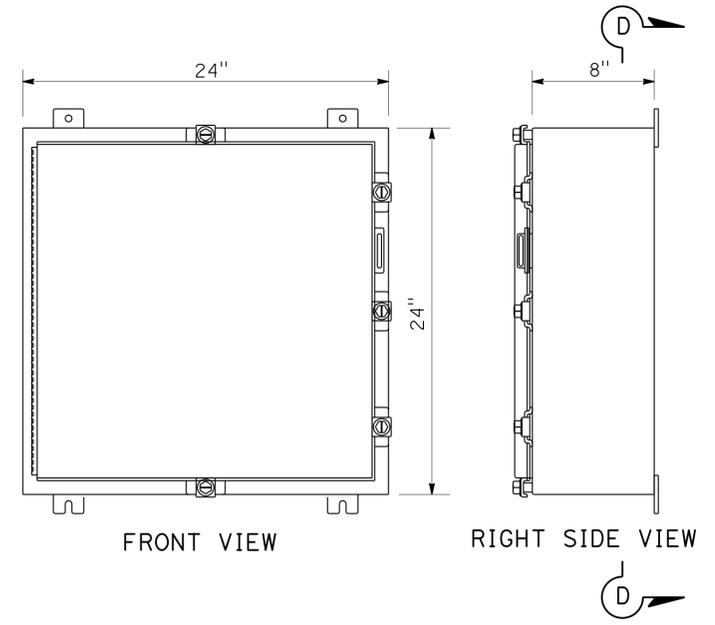
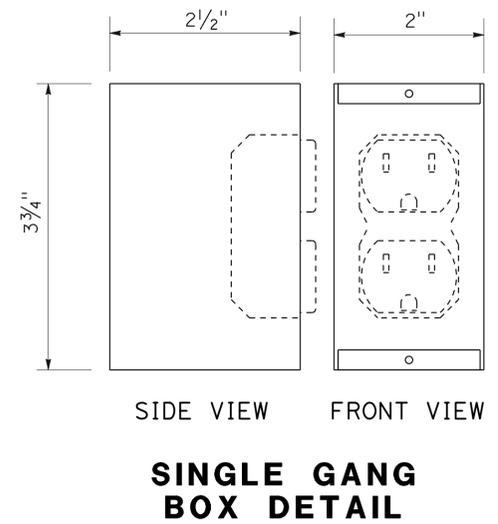
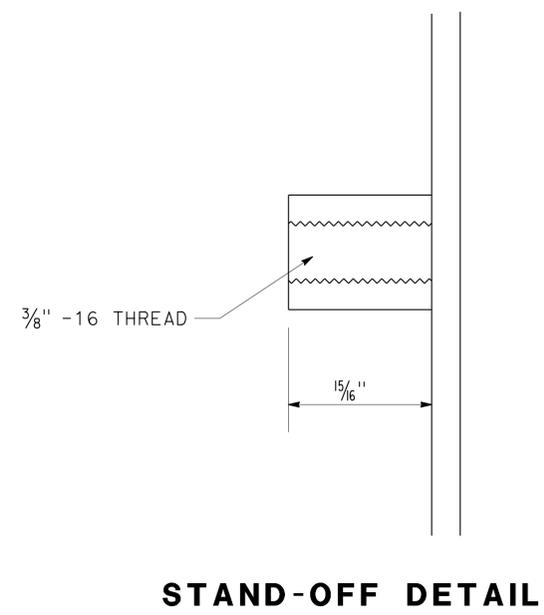
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- NOTES (THIS SHEET):**
- 1 1" HUB WATER TIGHT FITTING.
 - 2 1" CONDUIT BODY (TYPE LL) WITH COVER.
 - 3 INSTALL METAL DUPLEX COVER.
 - 4 1"C, MT.
 - 5 1"CONDUIT BODY (TYPE T) WITH COVER.



EQUIPMENT ENCLOSURE DETAIL



COMMUNICATION ENCLOSURE DETAIL

MODIFY ROADSIDE WEATHER INFORMATION SYSTEM DETAILS

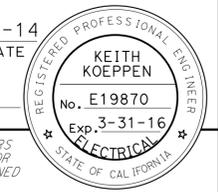
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E-5

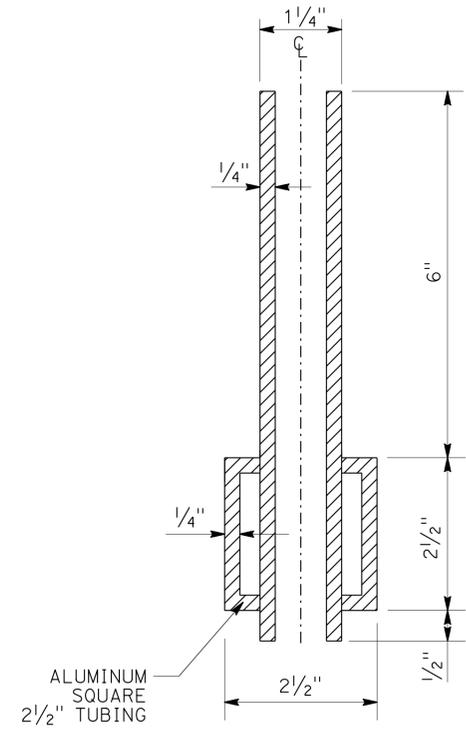
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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - ITS ENGINEERING
 Keith Koeppe
 Functional Supervisor
 Ian Turnbull
 Calculated/Designed By
 Checked By
 Revised By
 Date Revised
 10/1/13
 11/13/13
 12/30/13
 KK
 KK
 KK

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 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS ENGINEERING
 FUNCTIONAL SUPERVISOR IAN TURNBULL
 CALCULATED/DESIGNED BY CHECKED BY
 KEITH KOEPPEN JEREMIAH PEARCE
 REVISED BY DATE REVISED
 KK 10/1/13
 KK 11/13/13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
2	Sha, Sis	5	58.0/67.0, 0.0/2.7	26	49
REGISTERED ENGINEER			DATE	02-03-14	
PLANS APPROVAL DATE			02-03-14		
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.					



SENSOR MOUNTING ARM DETAIL



SECTION E-E

MODIFY ROADSIDE WEATHER INFORMATION SYSTEM DETAILS

NO SCALE

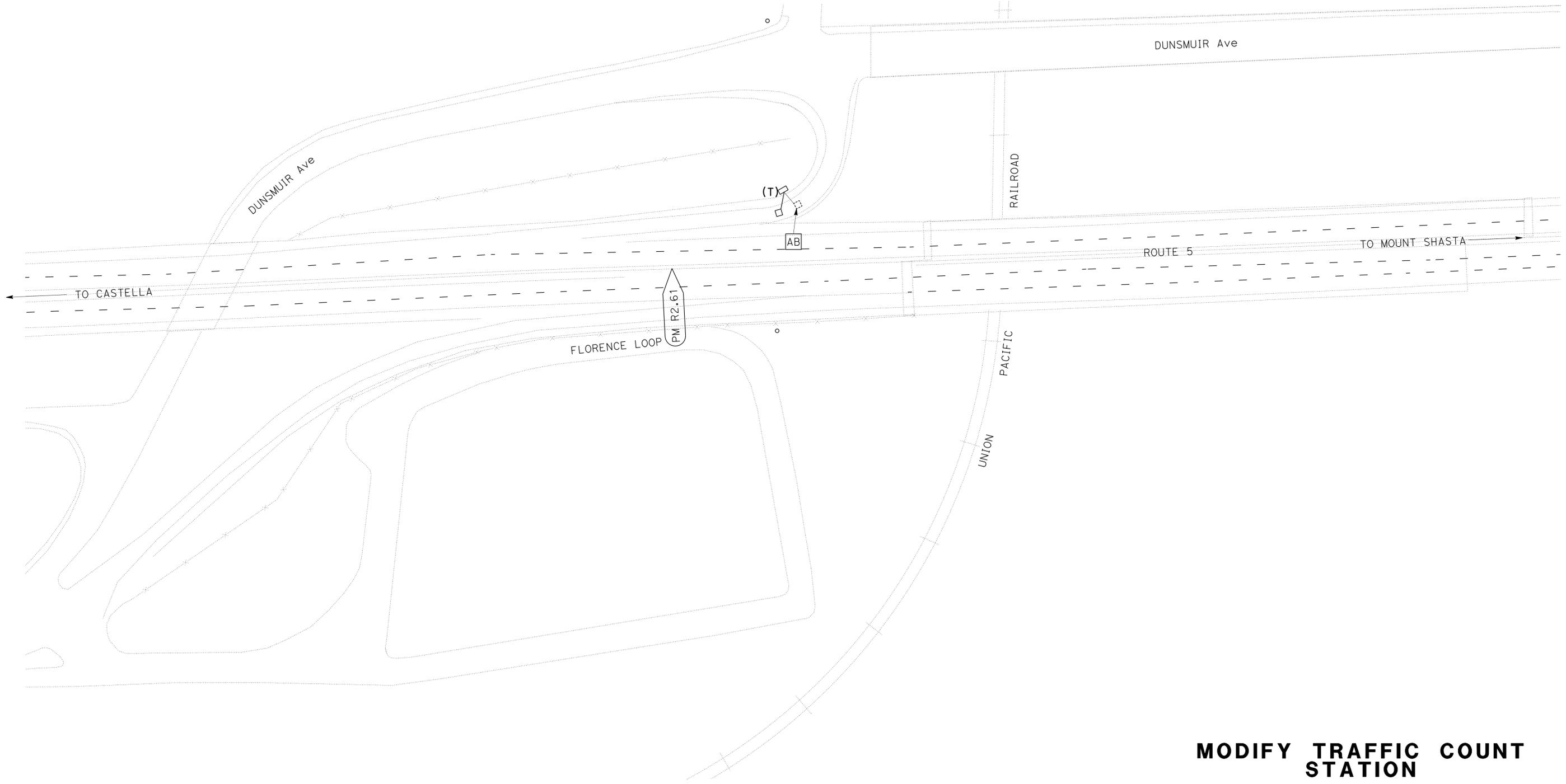
E-6

P:\proj\102\46160\plans\pse\24g160u007.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS ENGINEERING
 FUNCTIONAL SUPERVISOR IAN TURNBULL
 CALCULATED/DESIGNED BY KEITH KOEPPEN
 CHECKED BY JEREMIAH PEARCE
 REVISED BY DATE REVISION
 10/1/13 11/13/13 12/30/13
 KK KK KK
 x x x x x

NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA,
 CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. Exist UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
2	Sha, Sis	5	58.0/67.0, 0.0/2.7	27	49

REGISTERED ENGINEER _____ DATE 02-03-14
 PLANS APPROVAL DATE 02-03-14
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.



MODIFY TRAFFIC COUNT STATION

SCALE: 1" = 50'

E-7

LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54

P:\proj\1\02\4G160\plans\pse\24g160\008.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ITS ENGINEERING
 IAN TURNBULL
 FUNCTIONAL SUPERVISOR
 KEITH KOEPPEN
 JEREMIAH PEARCE
 REVISIONS: 10/1/13, 11/13/13, 12/30/13
 KK, KK, KK, KK

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
2	Sha, Sis	5	58.0/67.0, 0.0/2.7	28	49

REGISTERED ENGINEER:  DATE: 02-03-14
 PLANS APPROVAL DATE: 02-03-14

REGISTERED PROFESSIONAL ENGINEER
 KEITH KOEPPEN
 No. E19870
 Exp. 3-31-16
 ELECTRICAL
 STATE OF CALIFORNIA

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

**MODIFY ROADSIDE
WEATHER INFORMATION SYSTEM**

SHEET No.	(N)	(N)	(N)	(N)	(N)	(N)
E-1	100	3	1	700	3	1
	2" PVC CONDUIT	No. 5(T) PULL BOX	RWIS (MODIFY SYSTEM)	SENSOR LEAD-IN CABLE	PAVEMENT SENSOR	SUB-SURFACE SENSOR

**MODIFY ROADSIDE
WEATHER INFORMATION SYSTEM**

P:\proj\102\46160\plans\pse\24g160ua010.dgn
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ITS ENGINEERING
 FUNCTIONAL SUPERVISOR IAN TURNBULL
 CALCULATED/DESIGNED BY
 CHECKED BY
 KEITH KOEPPEN
 JEREMIAH PEARCE
 REVISED BY
 DATE REVISED
 10/1/13
 11/13/13
 12/30/13
 KK
 KK
 KK

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
2	Sha, Sis	5	58.0/67.0, 0.0/2.7	30	49

REGISTERED ENGINEER _____ DATE 02-03-14
 PLANS APPROVAL DATE 02-03-14

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EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS MAINTAINED

TYPE	PM	DESCRIPTION
CCTV	SIS-5 2.61	DUNSMUIR CCTV

EXISTING LOOP DETECTORS TO BE MAINTAINED (N)

ID	PM	TYPE	DESCRIPTION
R82	Sha-5 59.23	1-Ramp Loop	Flume Creek SB ENTRANCE
R83	Sha-5 59.24	1-Ramp Loop	Flume Creek NB EXIT
R84	Sha-5 59.45	1-Ramp Loop	Flume Creek NB ENTRANCE
R85	Sha-5 59.48	1-Ramp Loop	Flume Creek SB EXIT
R86	Sha-5 60.41	1-Ramp Loop	Conant Road SB ENTRANCE
R87	Sha-5 60.42	1-Ramp Loop	Conant Road NB EXIT
R88	Sha-5 60.60	1-Ramp Loop	Conant Road SB EXIT
R89	Sha-5 60.69	1-Ramp Loop	Conant Road NB ENTRANCE
R240	Sha-5 61.58	1-Ramp Loop	Sweetbrier Avenue SB ENTRANCE
R241	Sha-5 61.64	1-Ramp Loop	Sweetbrier Avenue NB EXIT
R242	Sha-5 61.84	1-Ramp Loop	Sweetbrier Avenue NB ENTRANCE
R243	Sha-5 61.88	1-Ramp Loop	Sweetbrier Avenue SB EXIT
R244	Sha-5 62.36	1-Ramp Loop	Vista Point NB EXIT
R245	Sha-5 63.46	1-Ramp Loop	Castella NB EXIT
R246	Sha-5 63.48	1-Ramp Loop	Castella SB ENTRANCE
R247	Sha-5 63.72	1-Ramp Loop	Castella NB ENTRANCE
R248	Sha-5 63.73	1-Ramp Loop	Castella NB EXIT
R249	Sha-5 65.23	1-Ramp Loop	Soda Creek NB EXIT
R250	Sha-5 65.31	1-Ramp Loop	Soda Creek SB ENTRANCE
R251	Sha-5 65.55	1-Ramp Loop	Soda Creek SB EXIT
R252	Sha-5 65.56	1-Ramp Loop	Soda Creek NB ENTRANCE
R253	Sha-5 60.00	1-Ramp Loop	Crag View Drive NB EXIT
R254	Sha-5 66.63	1-Ramp Loop	Castle Crags NB EXIT
R255	Sha-5 66.91	1-Ramp Loop	Castle Crags SB ENTRANCE
R256	Sha-5 65.95	1-Ramp Loop	Castle Crags NB ENTRANCE
R257	Sha-5 66.00	1-Ramp Loop	Castle Crags SB EXIT
R258	Sis-5 0.55	1-Ramp Loop	South Dunsmuir NB EXIT
R259	Sis-5 0.57	1-Ramp Loop	South Dunsmuir SB ENTRANCE
R260	Sis-5 0.73	1-Ramp Loop	South Dunsmuir SB EXIT
R261	Sis-5 0.91	1-Ramp Loop	South Dunsmuir NB ENTRANCE
R262	Sis-5 2.22	1-Ramp Loop	Central Dunsmuir NB EXIT
R263	Sis-5 2.58	1-Ramp Loop	Central Dunsmuir NB ENTRANCE

LAST REVISION DATE PLOTTED => 13-FEB-2014
 02-03-14 TIME PLOTTED => 12:54

	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	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

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

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE 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	
TeI	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
02	Sha, Sis	5	58.0/67.0, 0.0/2.7	31	49

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 02-03-14

UNIT OF MEASUREMENT SYMBOLS:

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

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:

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

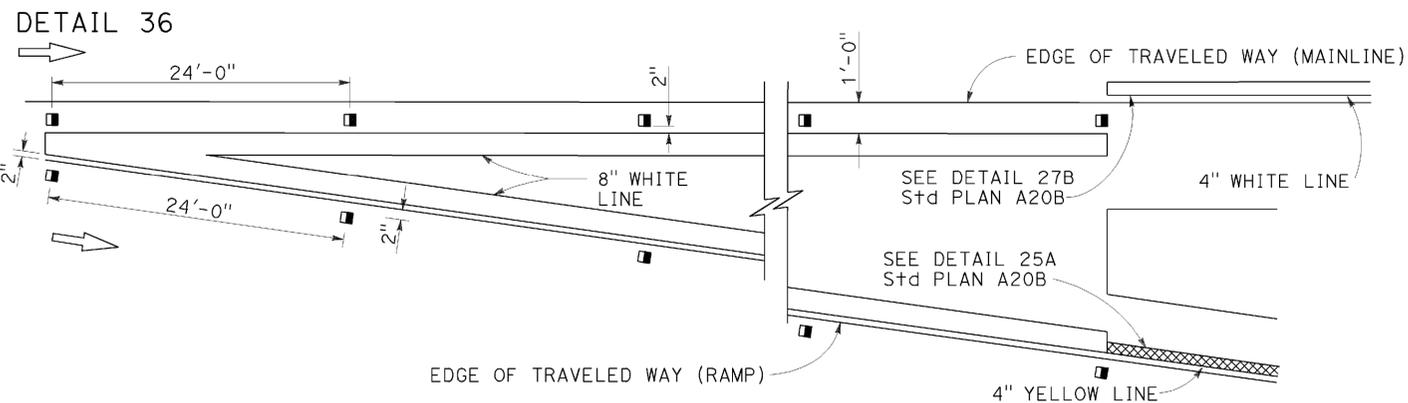
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

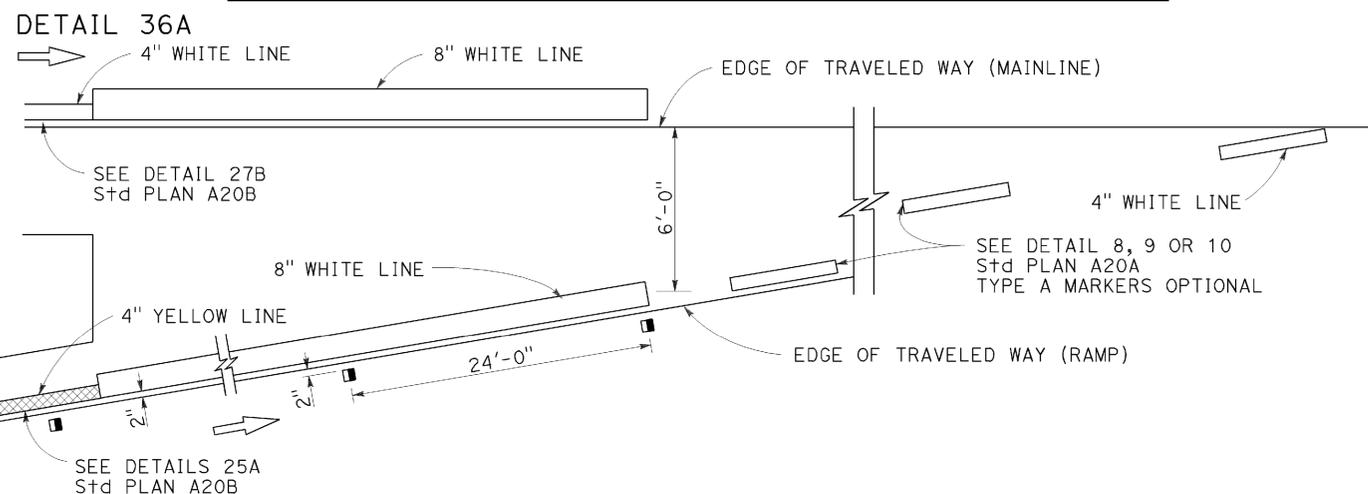
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

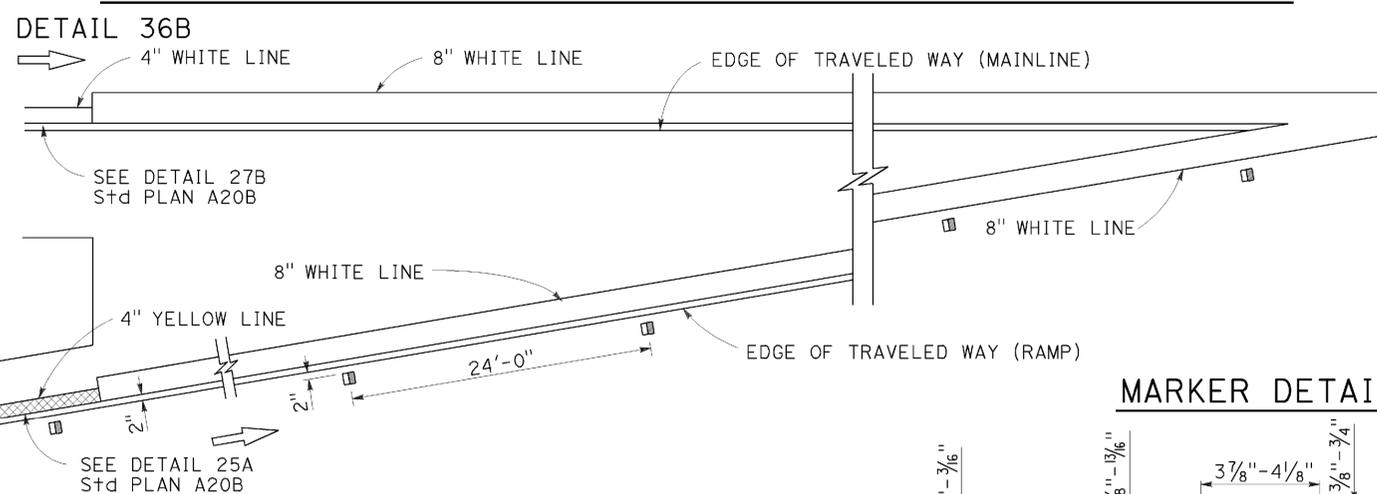
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

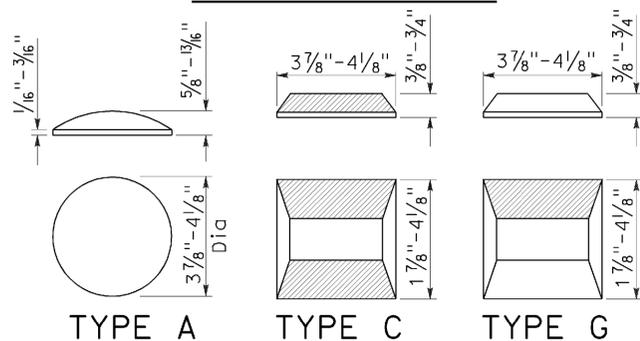


MARKER DETAILS

LEGEND:

MARKERS

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE



RETROREFLECTIVE FACE

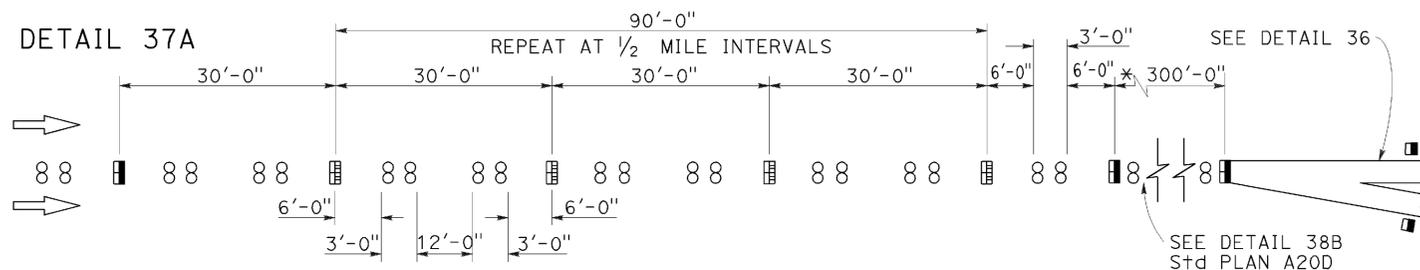
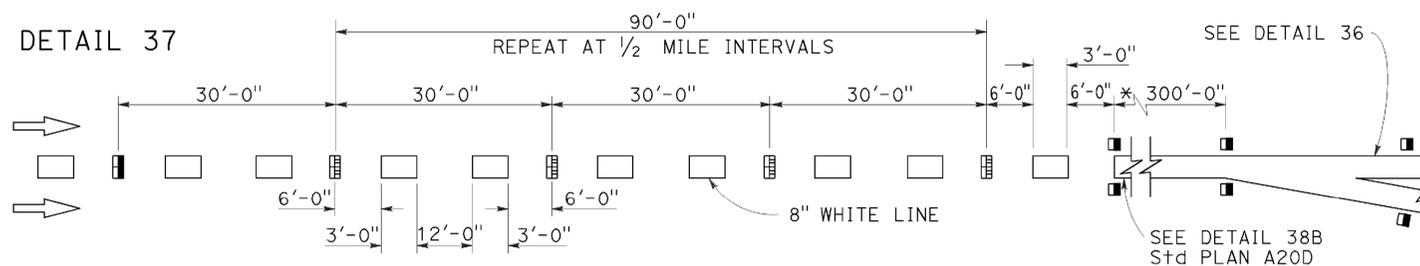
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	32	49

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE

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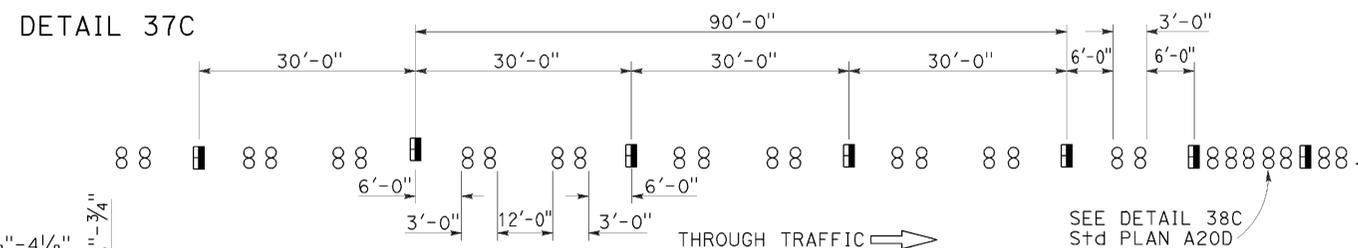
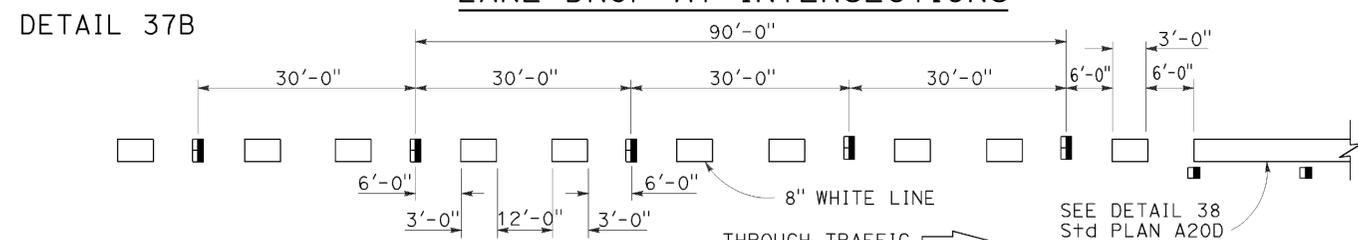
TO ACCOMPANY PLANS DATED 02-03-14

LANE DROP AT EXIT RAMP



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

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

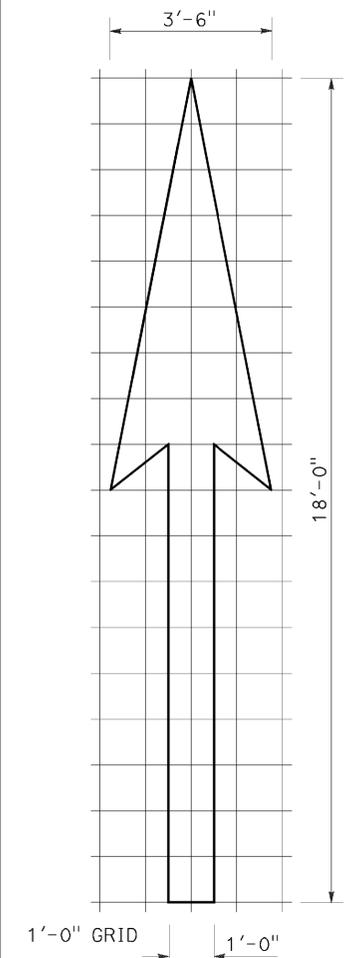
REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	33	49

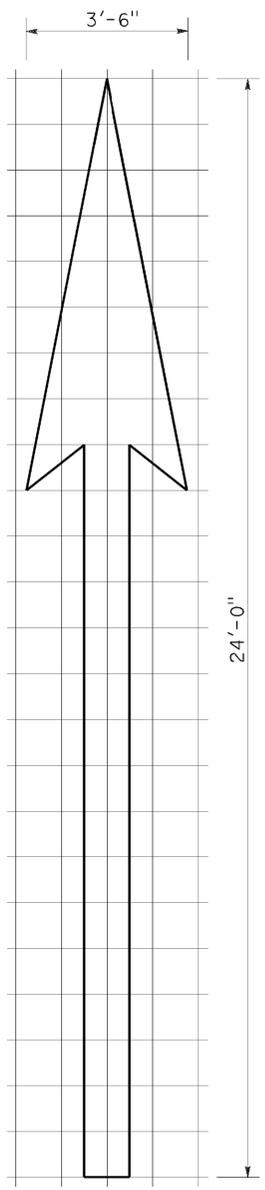
Roberto L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

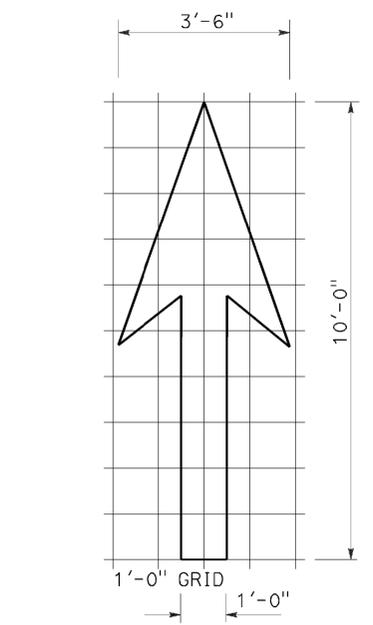
TO ACCOMPANY PLANS DATED 02-03-14



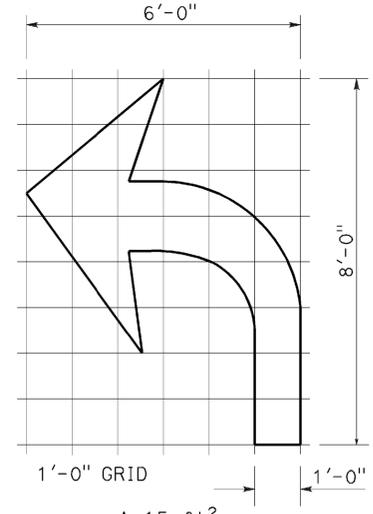
A=25 ft²
TYPE I 18'-0" ARROW



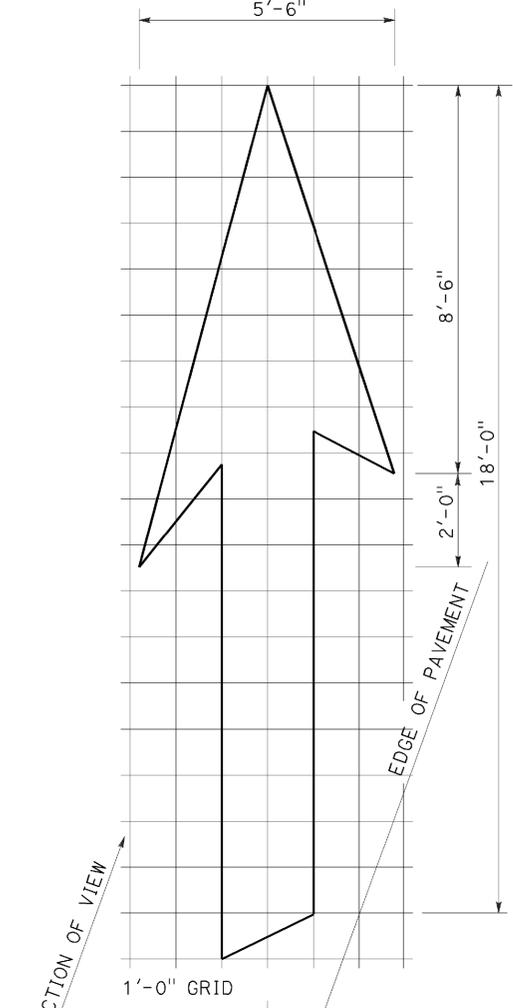
A=31 ft²
TYPE I 24'-0" ARROW



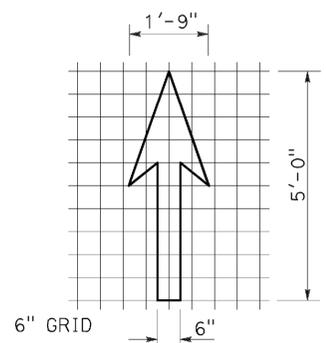
A=14 ft²
TYPE I 10'-0" ARROW



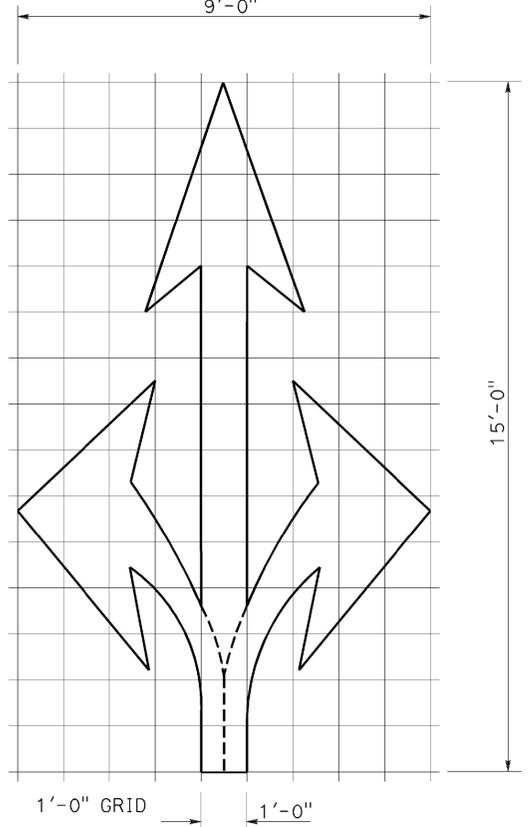
A=15 ft²
TYPE IV (L) ARROW
(For Type IV (R) arrow, use mirror image)



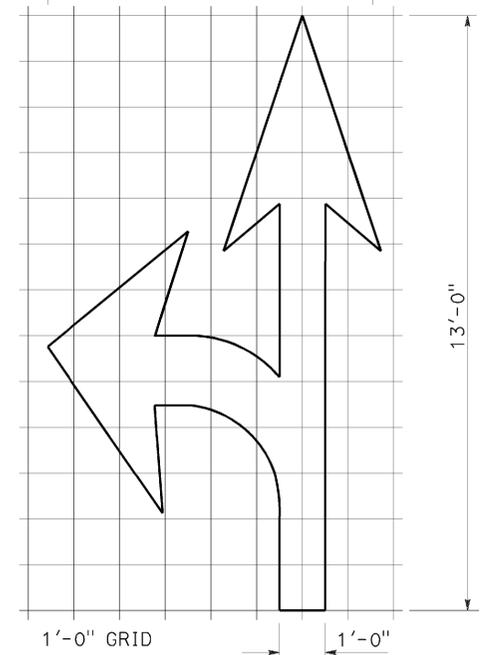
A=42 ft²
TYPE VI ARROW
Right lane drop arrow
(For left lane, use mirror image)



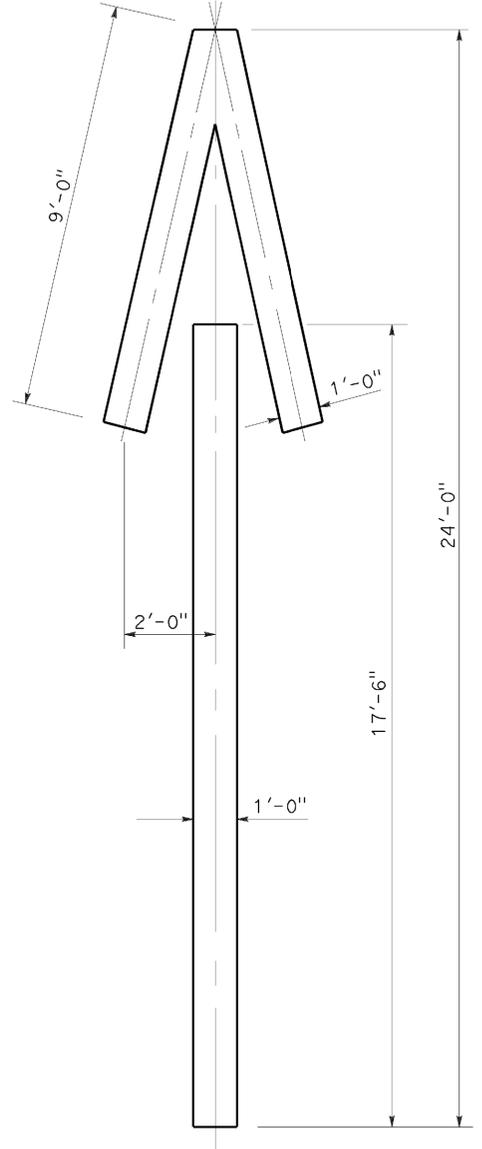
A=3.5 ft²
BIKE LANE ARROW



A=36 ft²
TYPE VIII ARROW



A=27 ft²
TYPE VII (L) ARROW
(For Type VII (R) arrow, use mirror image)



A=33 ft²
TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

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

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

DATE PLOTTED => 13-FEB-2014
TIME PLOTTED => 12:25

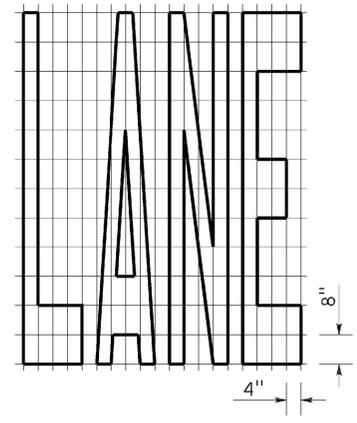
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	34	49

Registered Professional Engineer
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

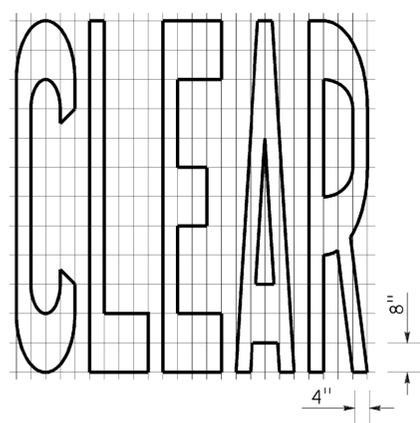
July 20, 2012
 PLANS APPROVAL DATE

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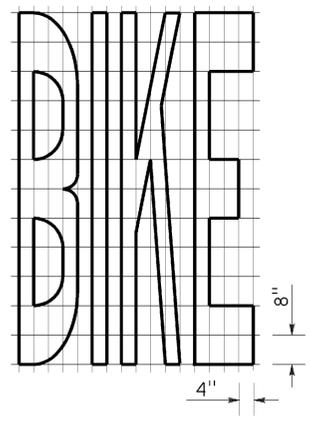
TO ACCOMPANY PLANS DATED 02-03-14



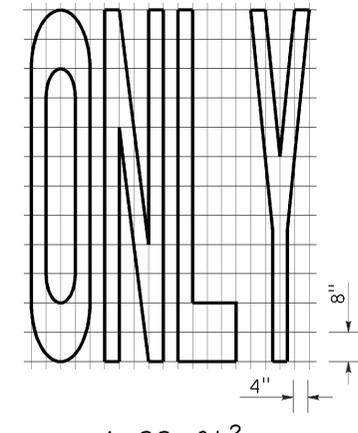
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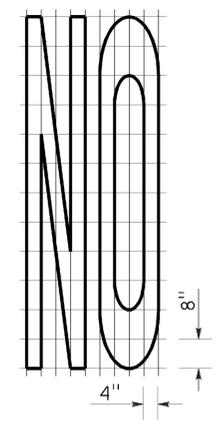
A=27 ft²



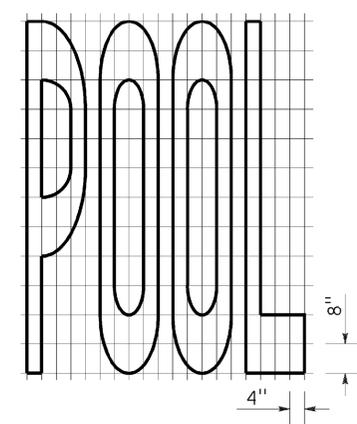
A=21 ft²



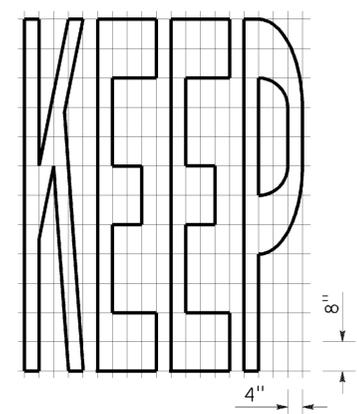
A=22 ft²



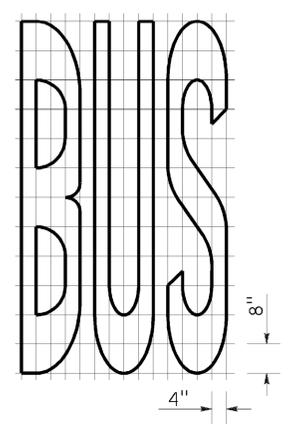
A=14 ft²



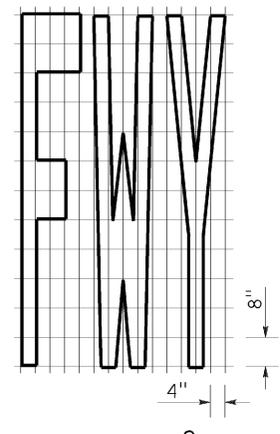
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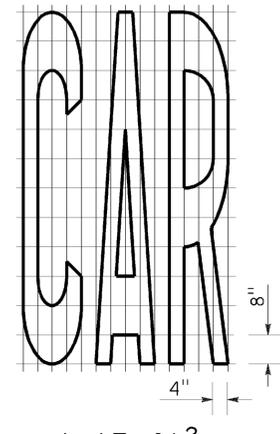
A=24 ft²



A=20 ft²



A=16 ft²

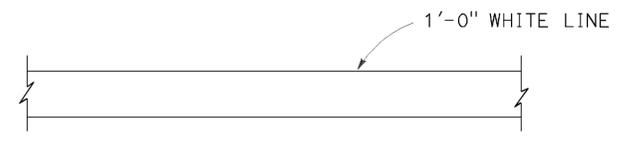
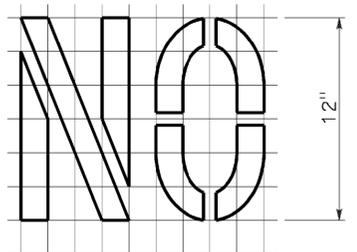


A=17 ft²

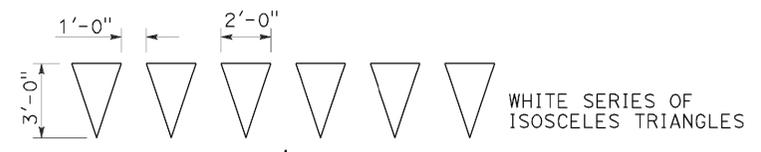
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

NOTES:

- If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
- The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
- Minor variations in dimensions may be accepted by the Engineer.
- Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
- The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
- The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

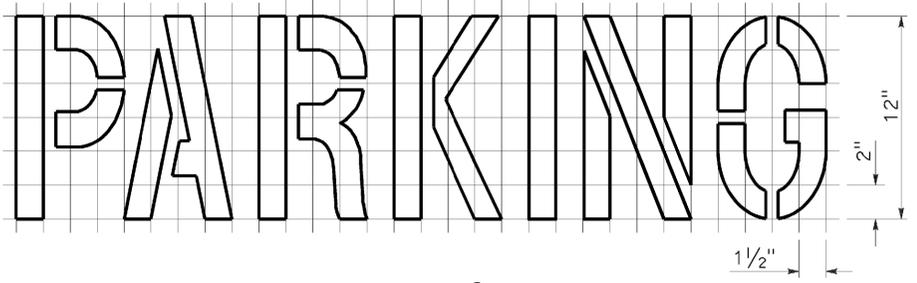


LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL

YIELD LINE



A=2 ft²

See Notes 6 and 7

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES
 NO SCALE

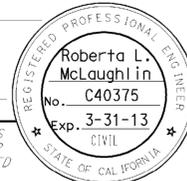
RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
 DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

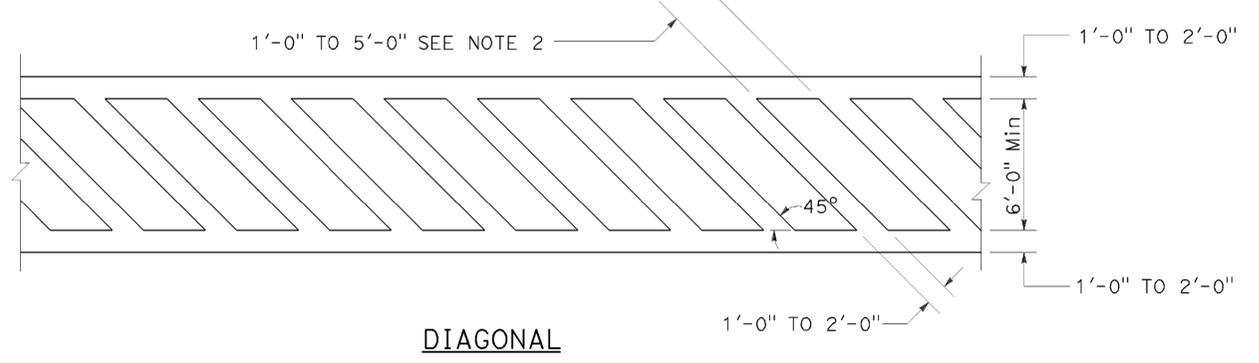
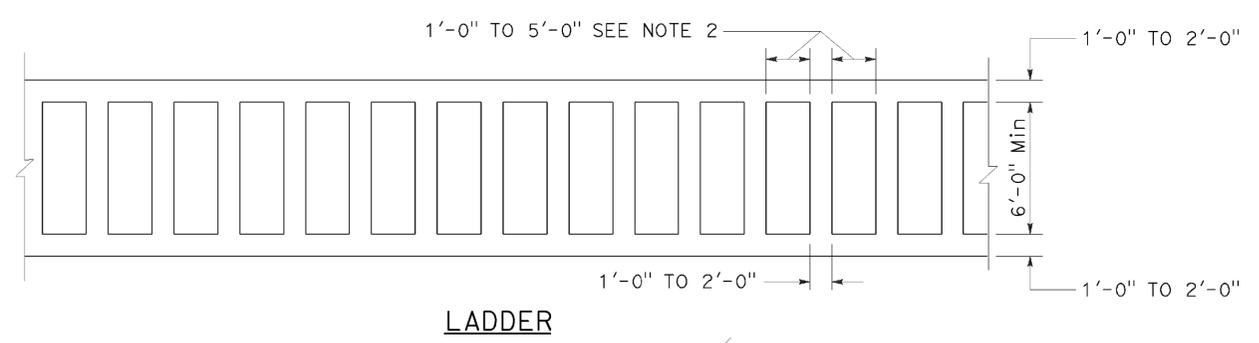
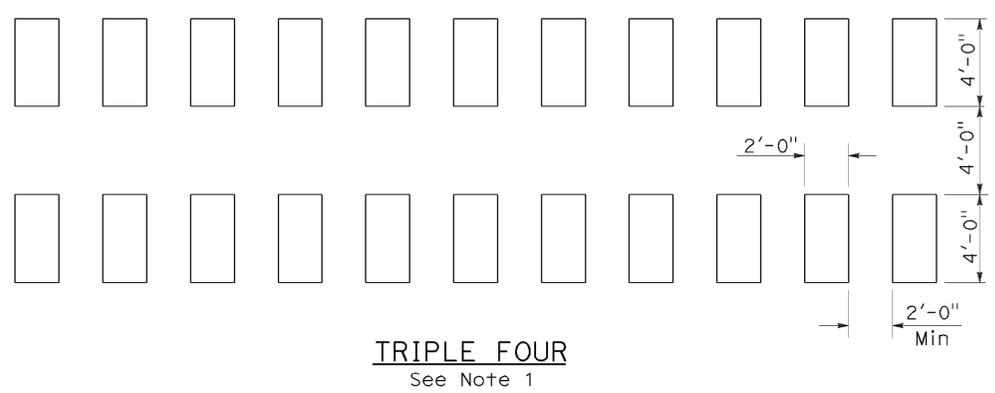
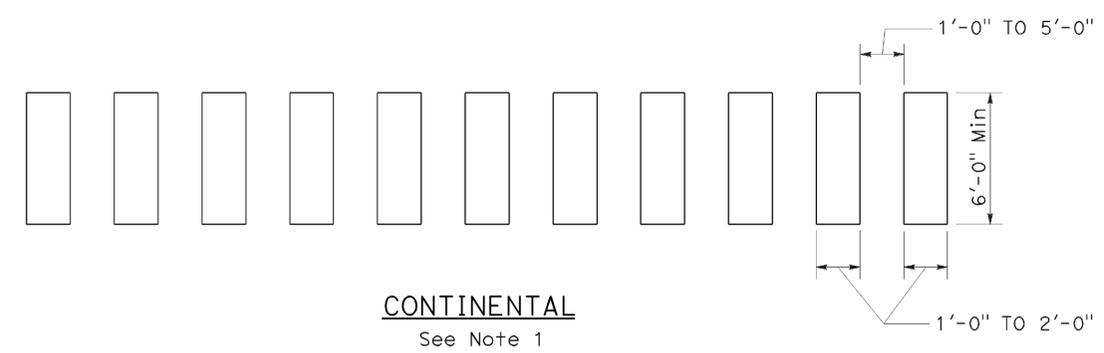
2010 REVISED STANDARD PLAN RSP A24E

DATE PLOTTED => 13-FEB-2014 TIME PLOTTED => 12:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	35	49

 REGISTERED CIVIL ENGINEER		
July 20, 2012 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

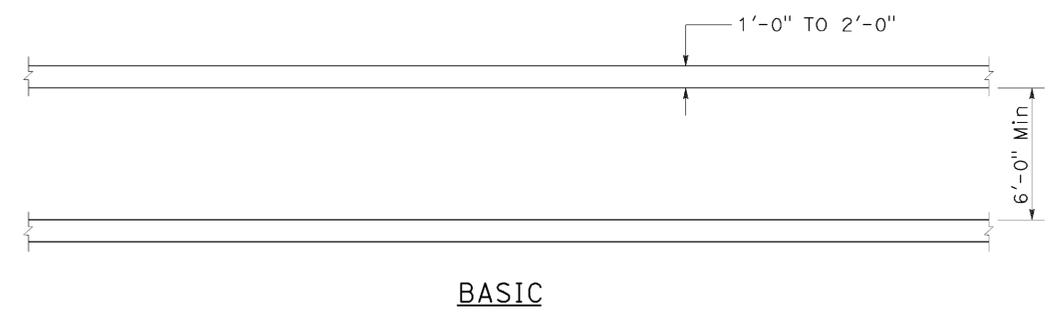
TO ACCOMPANY PLANS DATED 02-03-14



HIGHER VISIBILITY CROSSWALKS

NOTES:

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



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
CROSSWALKS**

NO SCALE
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	36	49

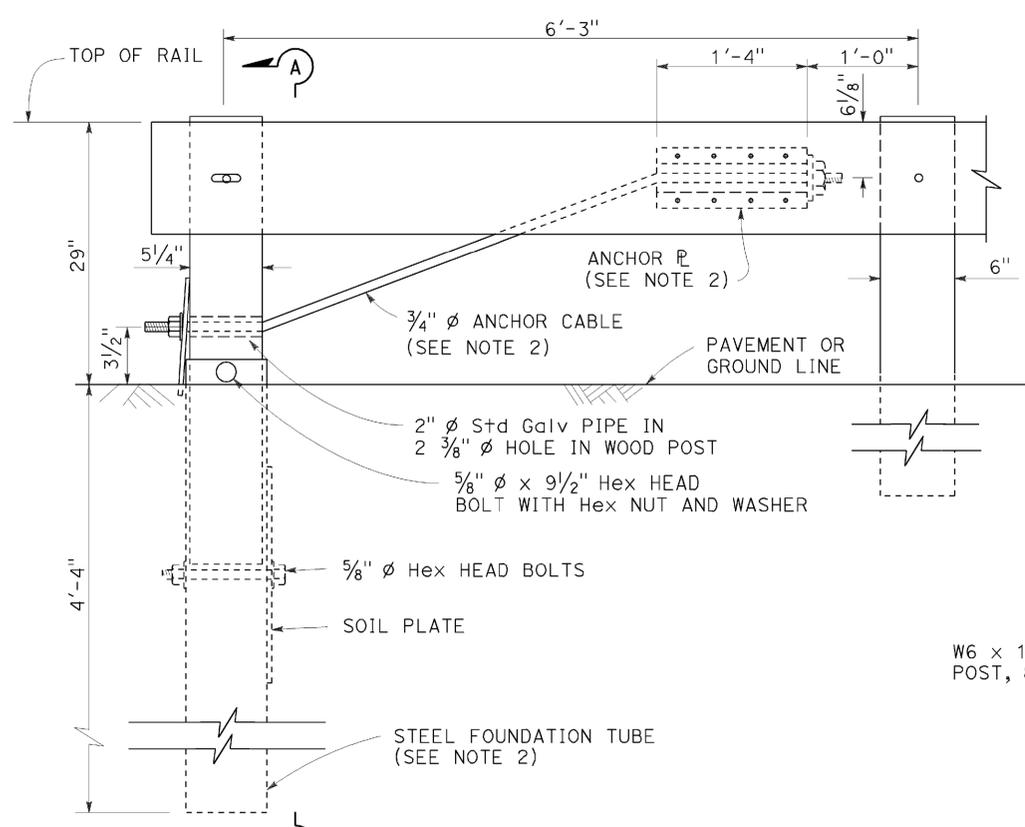
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

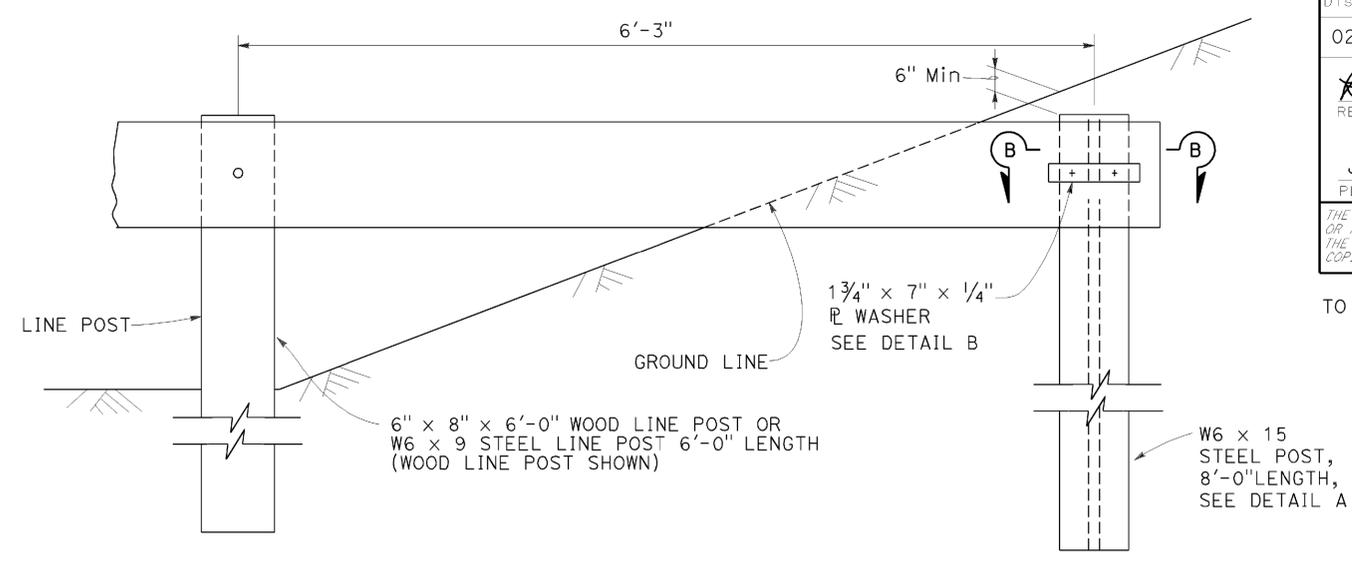
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TO ACCOMPANY PLANS DATED 02-03-14

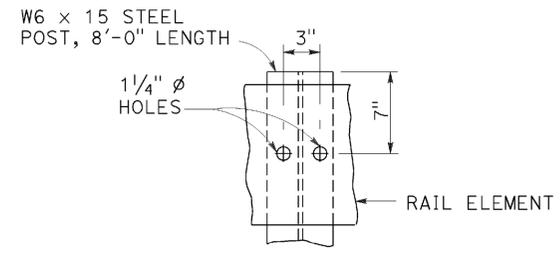
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA



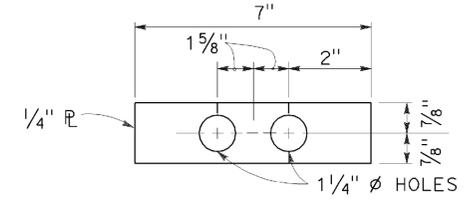
**ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)**



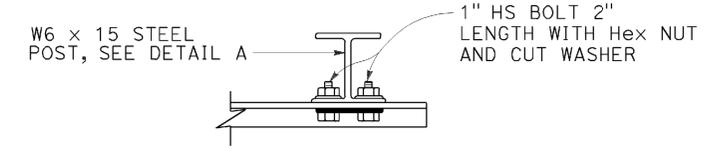
BURIED POST END ANCHOR



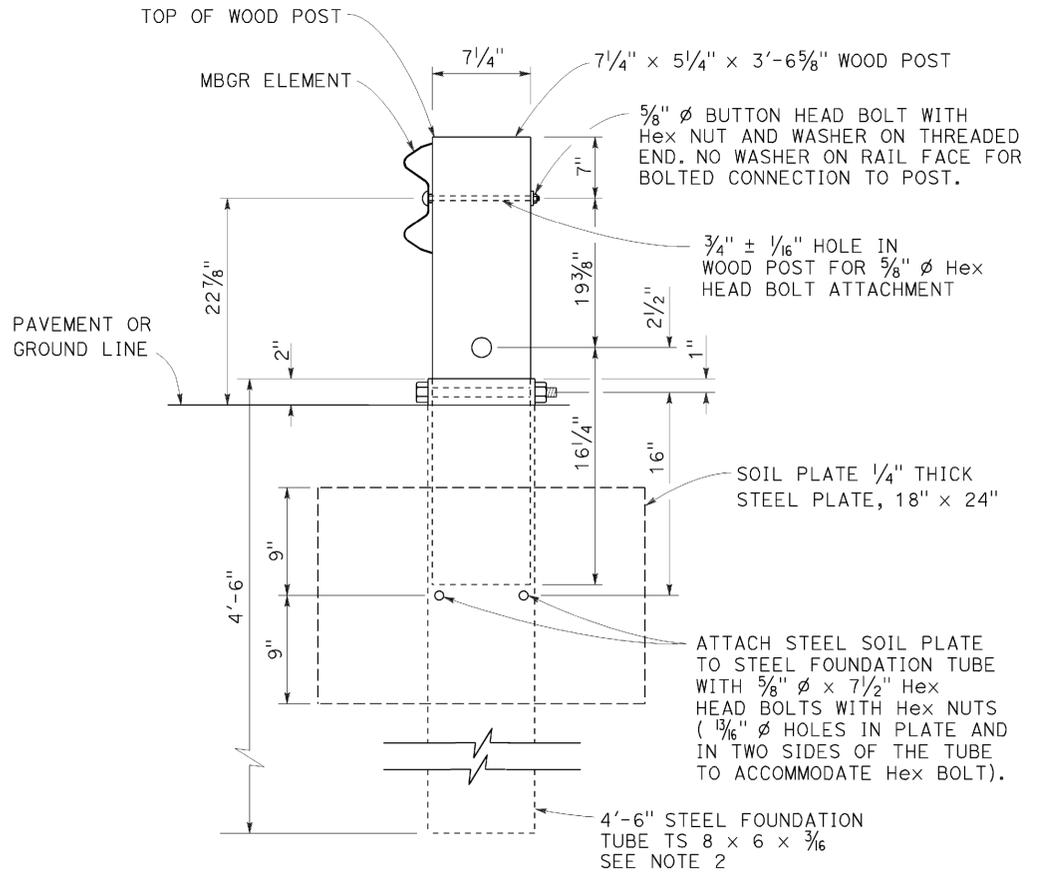
DETAIL A



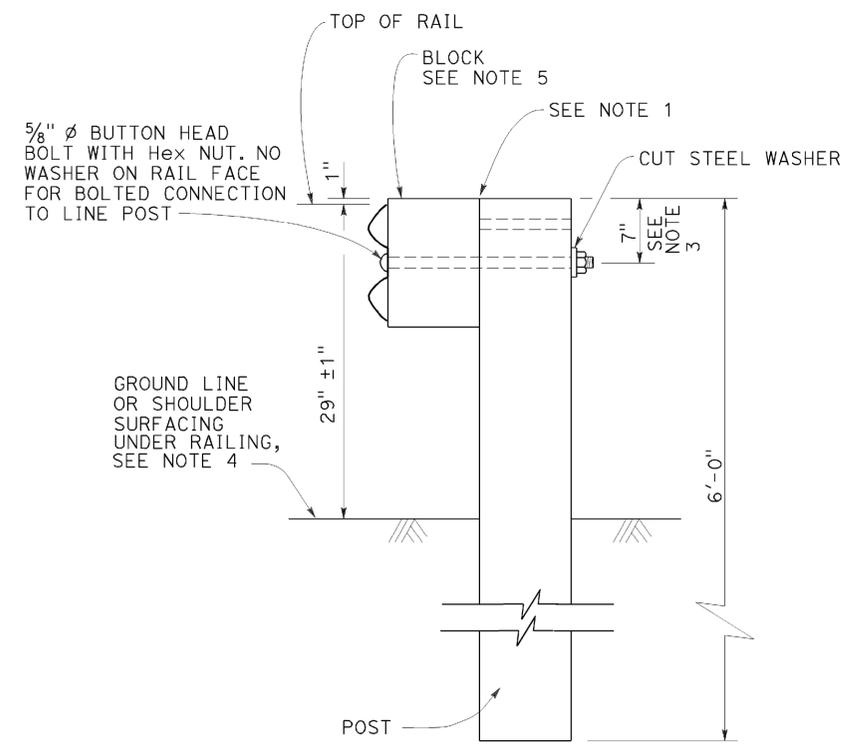
DETAIL B



SECTION B-B



SECTION A-A



**TYPICAL LINE
POST INSTALLATION**

NOTES:

1. For wood post and wood block, toenail with 2-16d Galv nails in top of block. For steel post and notched wood or plastic block, notched face of block faces steel post.
2. 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" diameter 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.
3. To connect railing to 27" terminal system end treatment, transition the top of railing height at a ratio of 120:1 to terminal system end treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.
4. Install posts in soil.
5. See Revised Standard Plans RSP A77N1 and RSP A77N2 for details.
6. Holes excavation in the slope to construct the buried post end anchor shall be backfilled with selected earth, placed in layers approximately 1'-0" thick. Each layer shall be moistened and thoroughly compacted.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

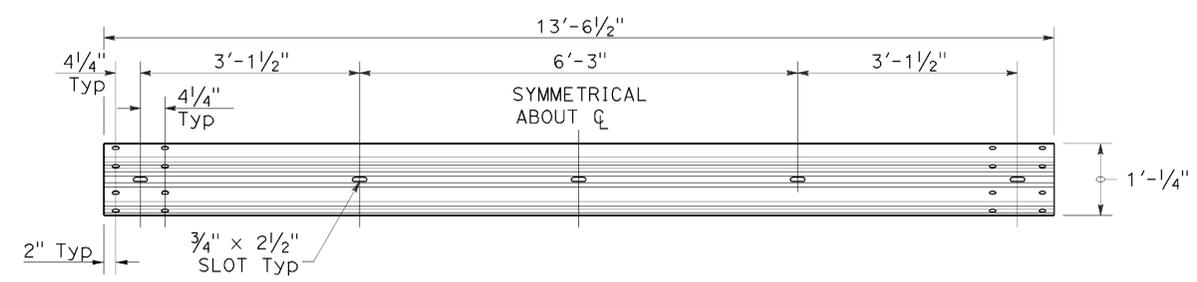
**METAL BEAM GUARD RAILING
RECONSTRUCT INSTALLATION**

NO SCALE

RSP A77L3 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77L3

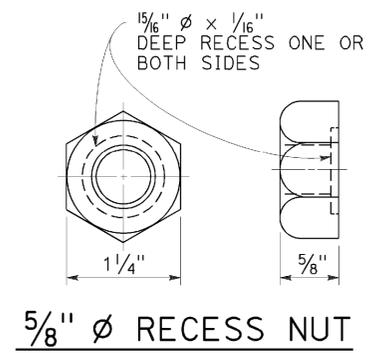
TO ACCOMPANY PLANS DATED 02-03-14



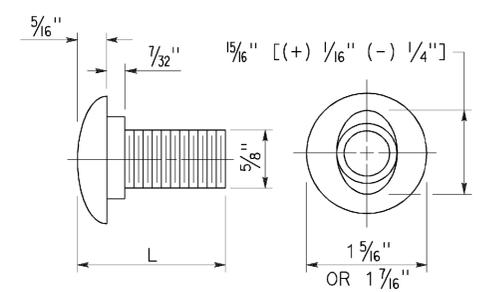
TYPICAL RAIL ELEMENT

NOTE:

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



5/8" Ø RECESS NUT

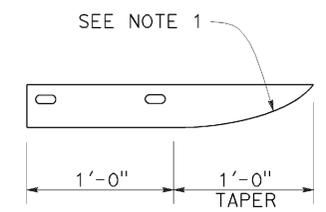


5/8" Ø BUTTON HEAD BOLT

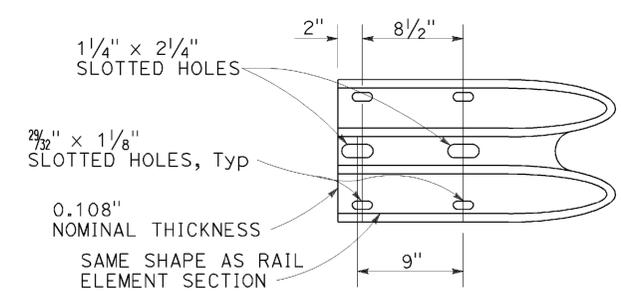
BUTTON HEAD BOLT

L	THREAD LENGTH
1 3/8"	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
** 2 3/4"	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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	38	49

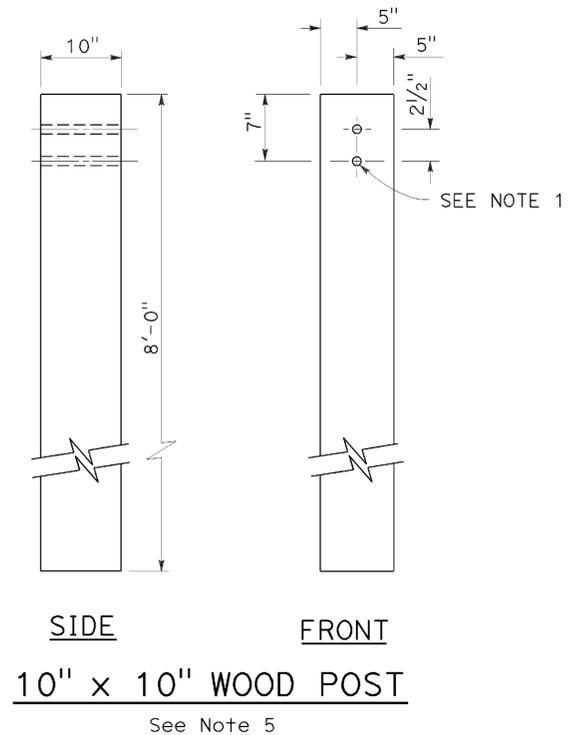
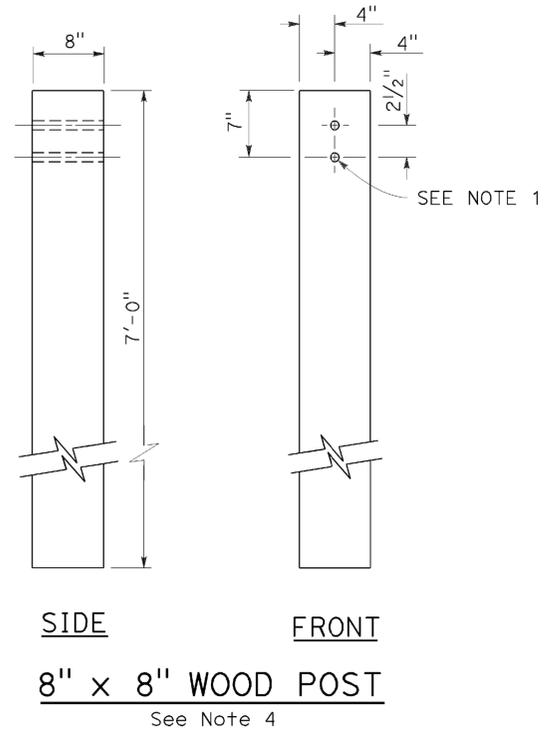
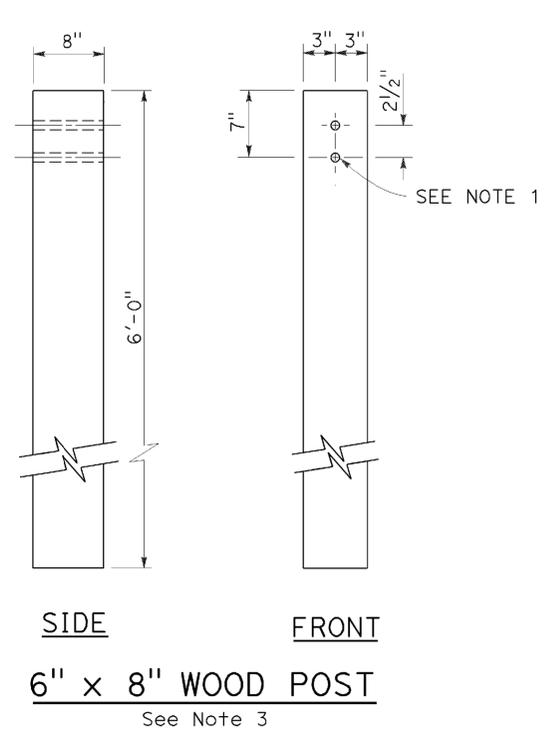
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

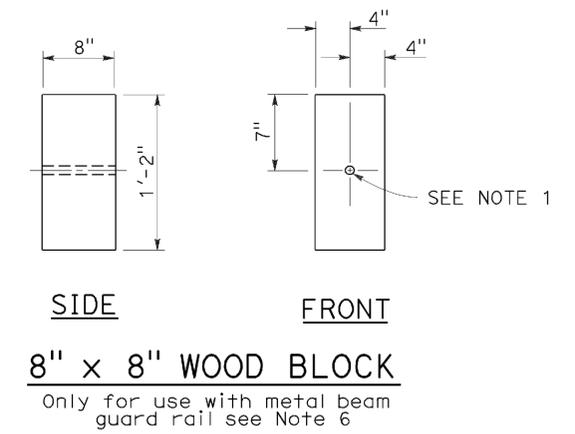
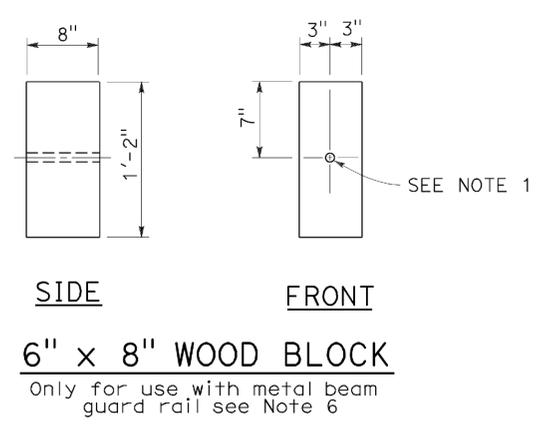
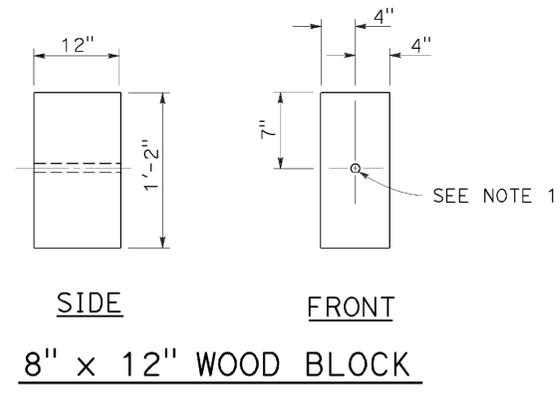
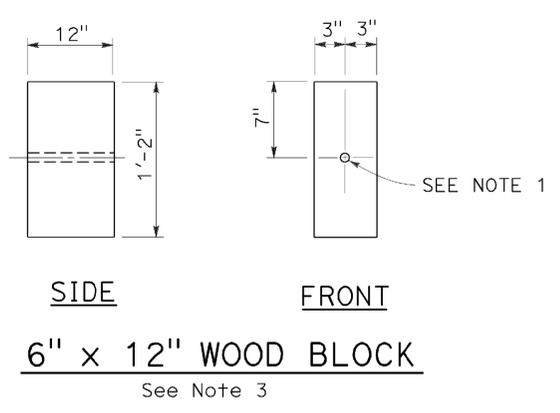
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 02-03-14



NOTES:

1. All holes in wood posts and blocks shall be 3/4" 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.



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

DATE PLOTTED => 13-FEB-2014
TIME PLOTTED => 12:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	39	49

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

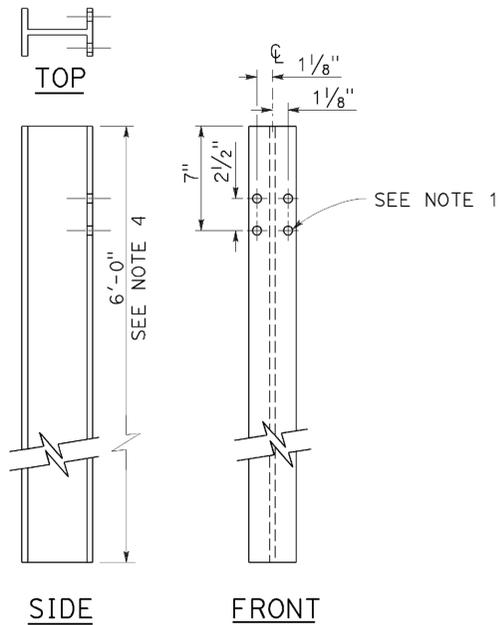
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

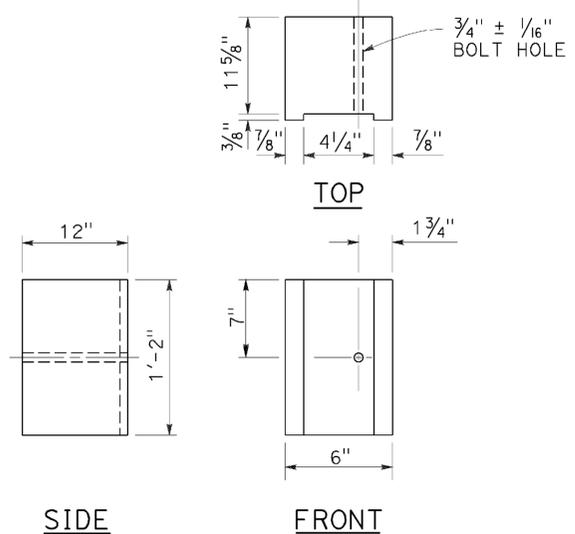
TO ACCOMPANY PLANS DATED 02-03-14

NOTES:

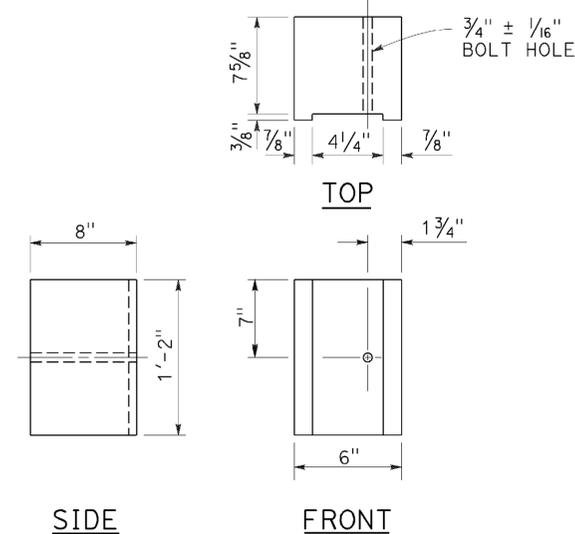
1. All holes in steel post shall be 1 3/8" Dia maximum.
2. Dimensions shown for wood block are nominal.
3. Notched face of block faces steel post.
4. 6'-0" length posts to be used for typical roadway installation. See Revised Standard Plan RSP A77N3.
5. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" notched wood blocks.
6. This post and 8" x 12" block combination to be used for line post sections of MGS on narrow roadways and where strengthened line post sections of MGS are warranted to shield fixed objects.



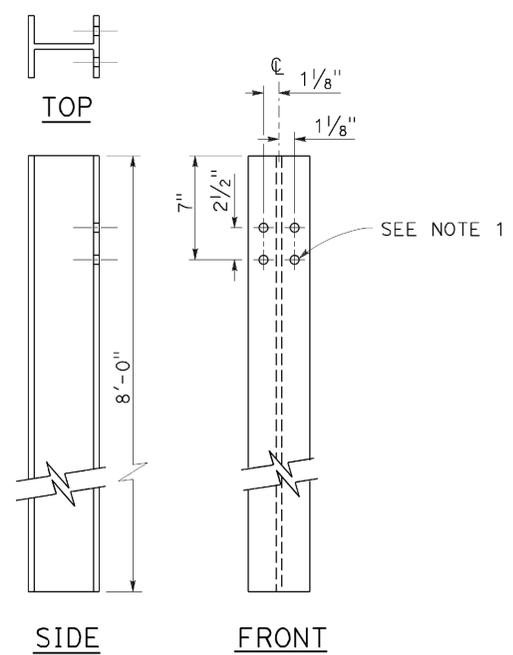
**W6 x 9 OR W6 x 8.5
STEEL POST**
See Note 4



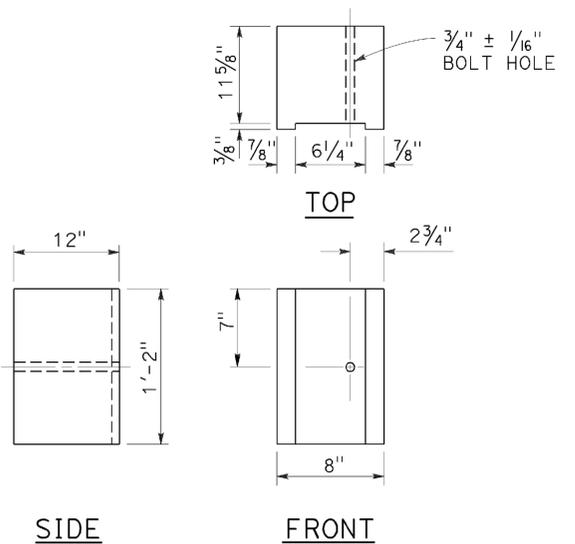
**6" x 12"
NOTCHED WOOD BLOCK**
See Notes 2 and 3



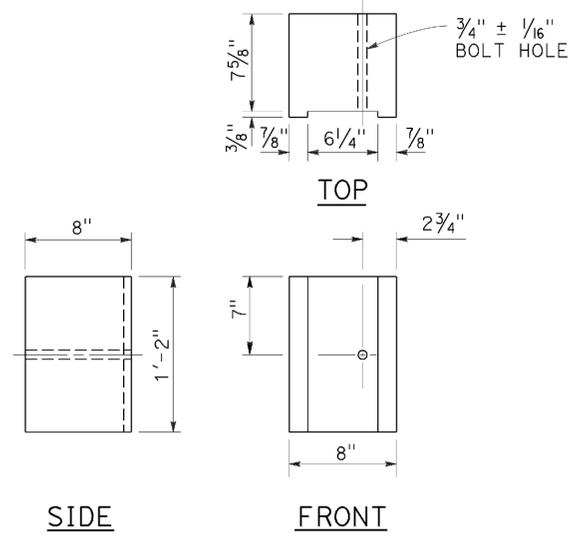
**6" x 8"
NOTCHED WOOD BLOCK**
Only for use with metal beam guard railing. See Note 5



**W6 x 15
STEEL POST**
See Note 6



**8" x 12"
NOTCHED WOOD BLOCK**
See Notes 2 and 3



**8" x 8"
NOTCHED WOOD BLOCK**
Only for use with metal beam guard railing. See Note 5

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
STEEL POST AND
NOTCHED WOOD BLOCK DETAILS**

NO SCALE

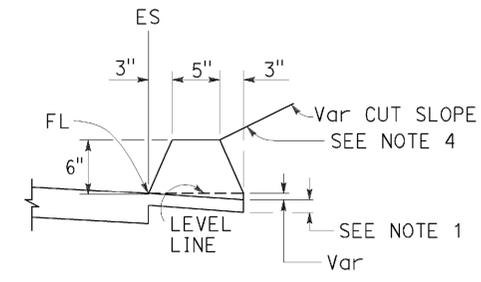
RSP A77N2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77N2
DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N2

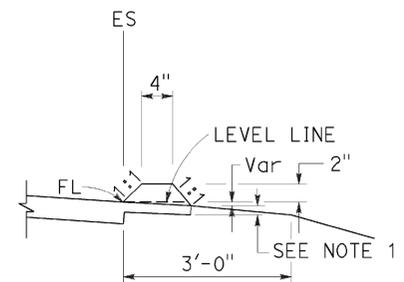
2010 REVISED STANDARD PLAN RSP A77N2

DATE PLOTTED => 13-FEB-2014
TIME PLOTTED => 12:25

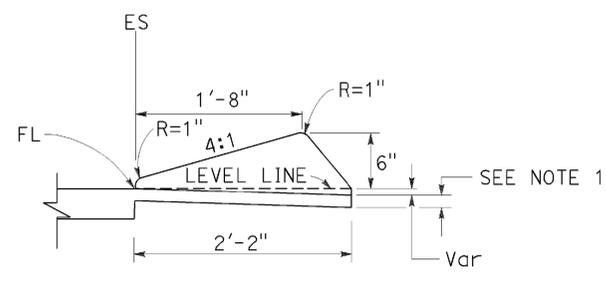
TO ACCOMPANY PLANS DATED 02-03-14



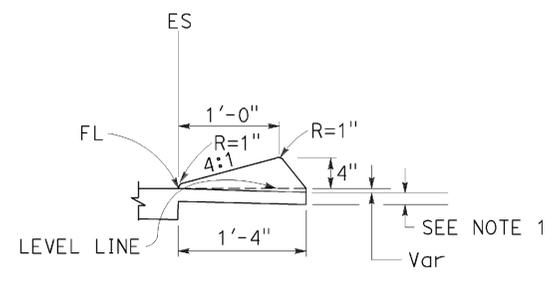
TYPE A
See Note 3



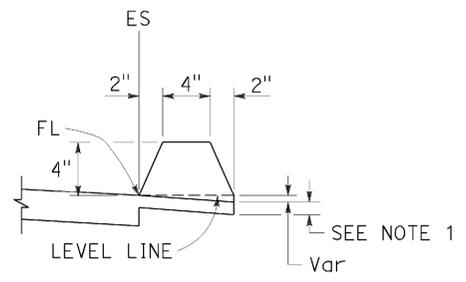
TYPE C



TYPE D

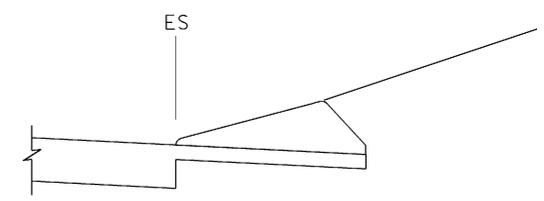


TYPE E

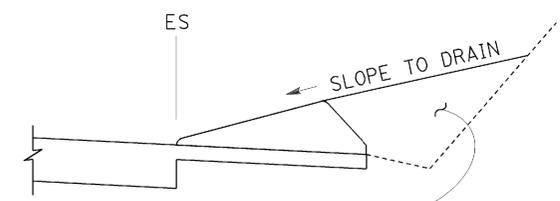


TYPE F
See Note 5

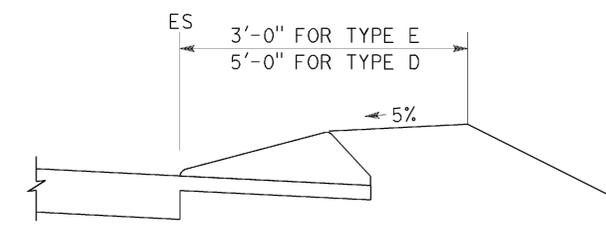
DIKES



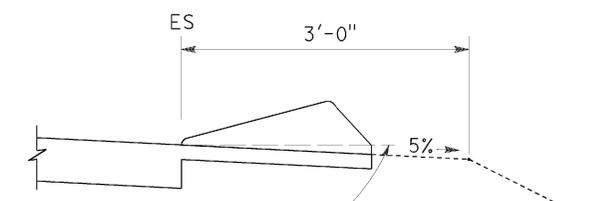
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

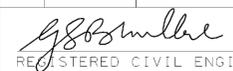
HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B
DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	41	49


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 02-03-14

TABLE 1

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

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

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

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

TABLE 2

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

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

REVISED STANDARD PLAN RSP T9

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

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

LEGEND

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	43	49

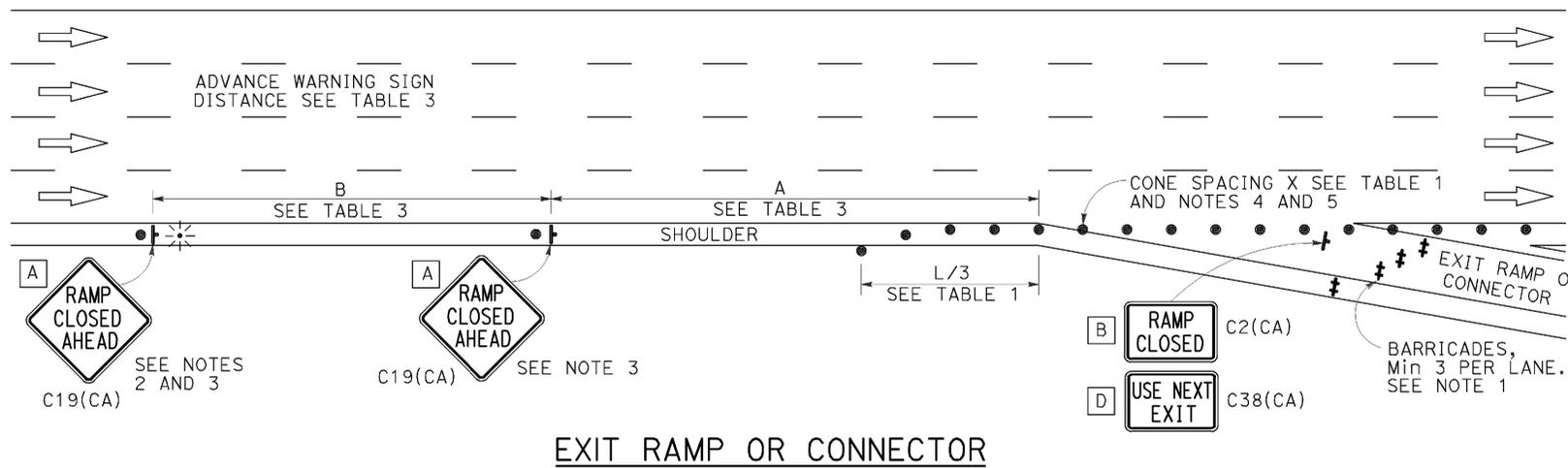
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

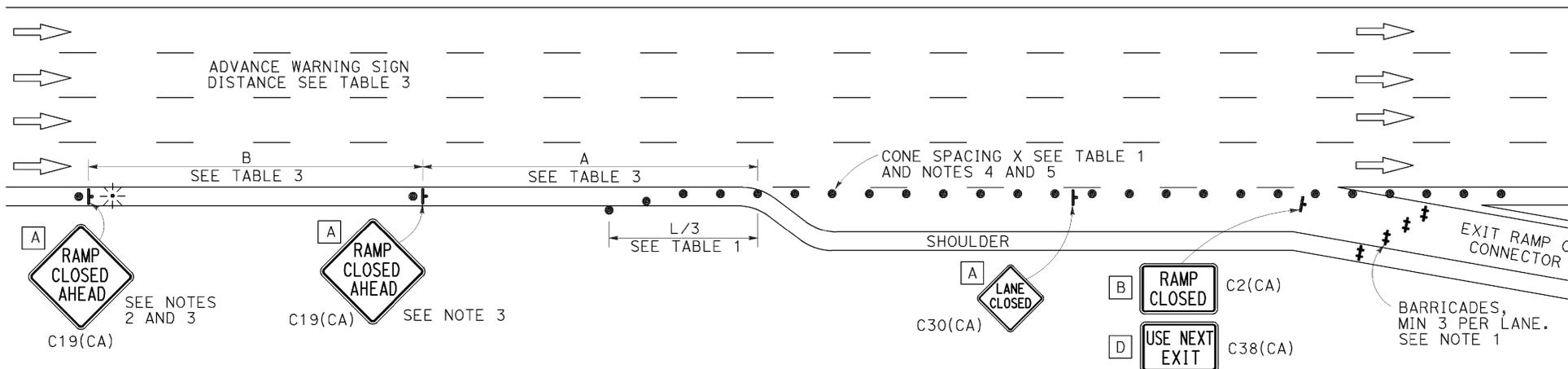
TO ACCOMPANY PLANS DATED 02-03-14

NOTES:

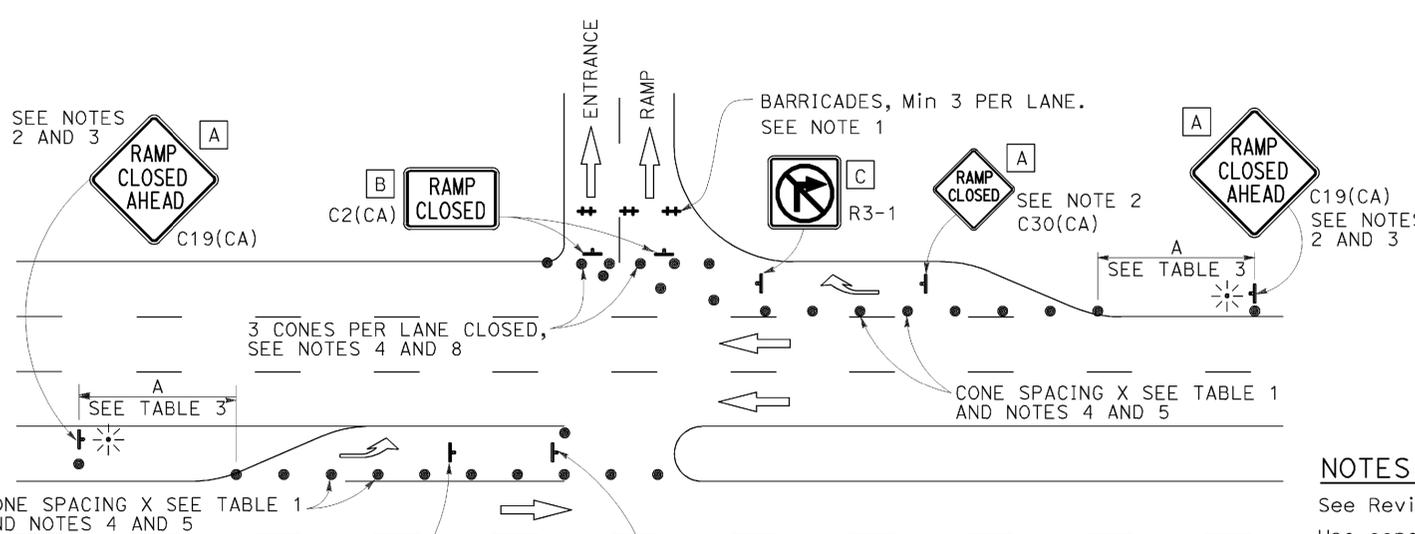
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



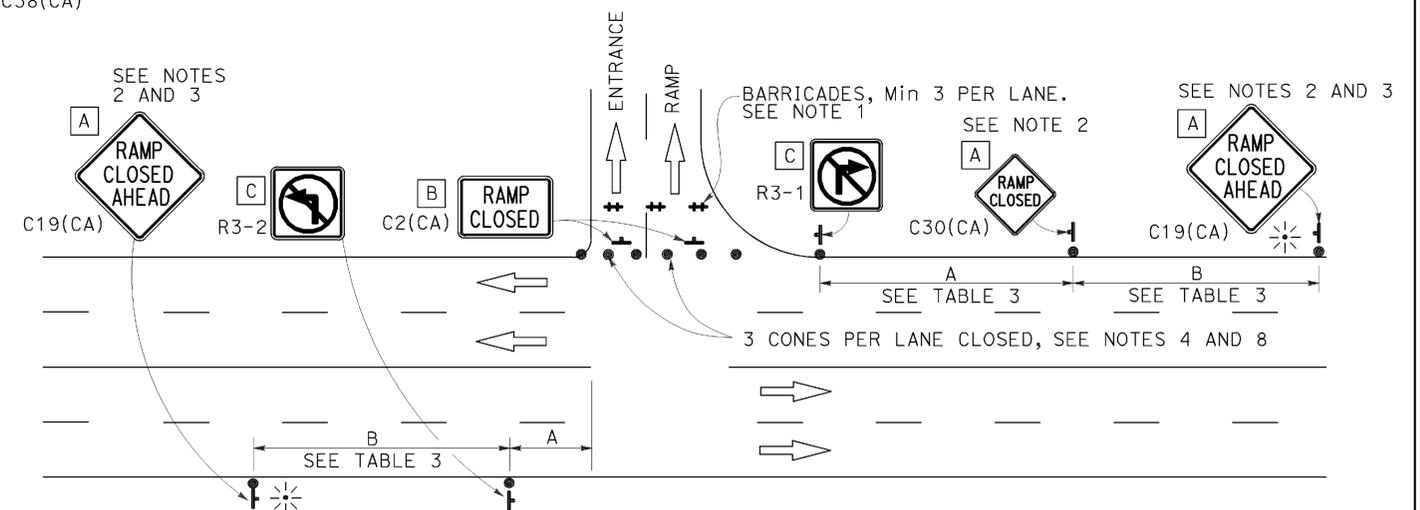
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

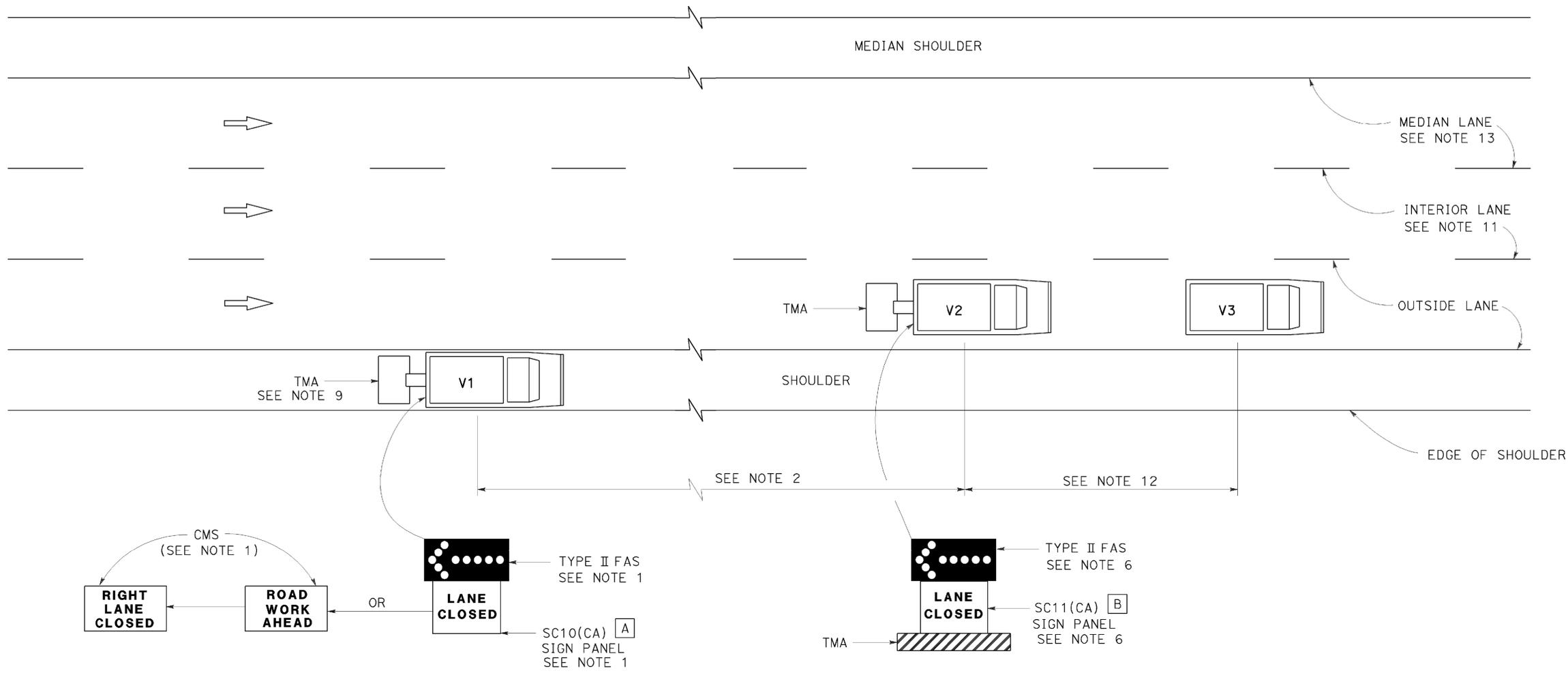
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

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

REVISED STANDARD PLAN RSP T14



TO ACCOMPANY PLANS DATED 02-03-14



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

- Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
- All vehicles shall be equipped with flashing or rotating amber lights.
- If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

LEGEND:

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

ABBREVIATIONS

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	45	49

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 02-03-14

SOFFIT AND WALL MOUNTED LUMINAIRES

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

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

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

MISCELLANEOUS ELECTROLIERS

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

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

STANDARD ELECTROLIER

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

DATE PLOTTED => 13-FEB-2014
TIME PLOTTED => 12:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	46	49

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 02-03-14

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CONDUIT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION

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

FLASHING BEACON

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

SIGNAL EQUIPMENT

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

SIGNAL EQUIPMENT Cont

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

NOTES:

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

ILLUMINATED OVERHEAD SIGN

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	47	49

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

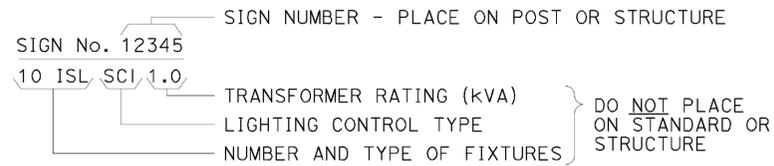
Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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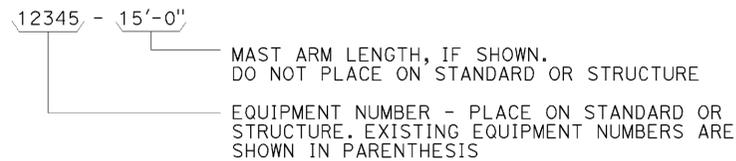
TO ACCOMPANY PLANS DATED 02-03-14

EQUIPMENT IDENTIFICATION

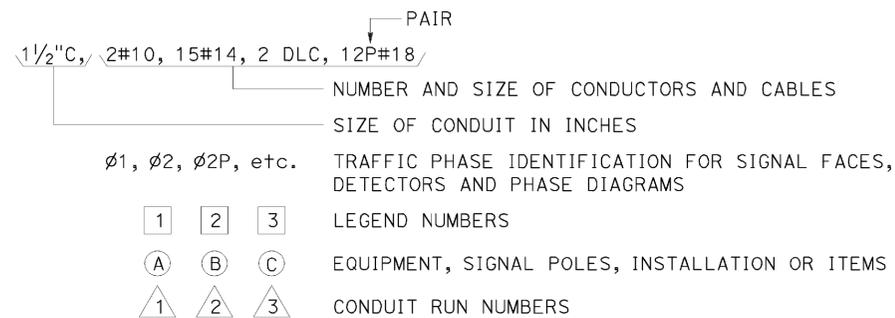
ILLUMINATED SIGN IDENTIFICATION NUMBER:



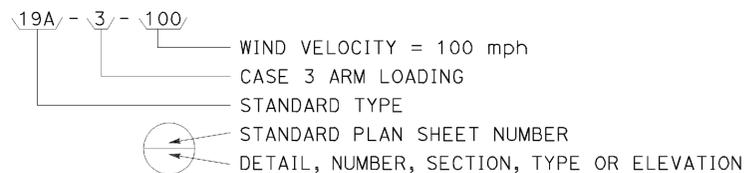
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



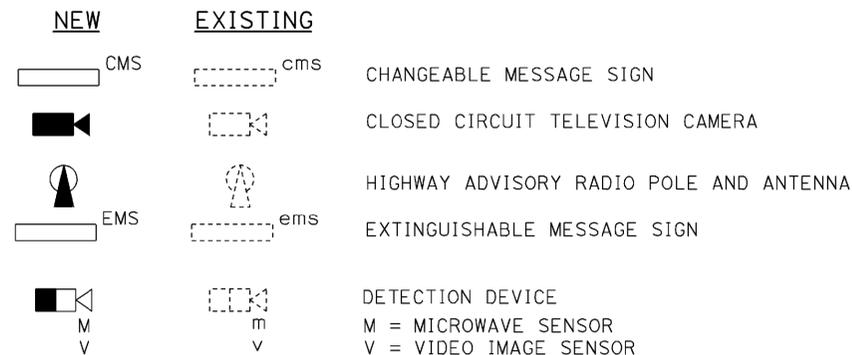
CONDUIT AND CONDUCTOR IDENTIFICATION:



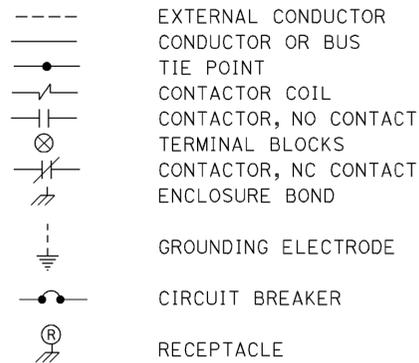
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



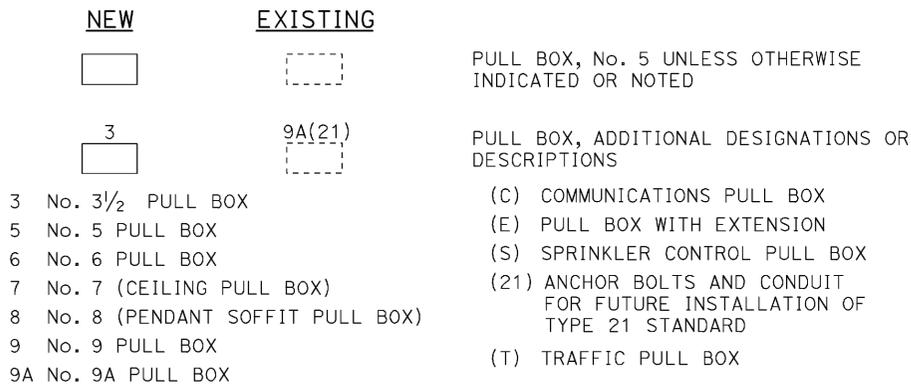
MISCELLANEOUS EQUIPMENT



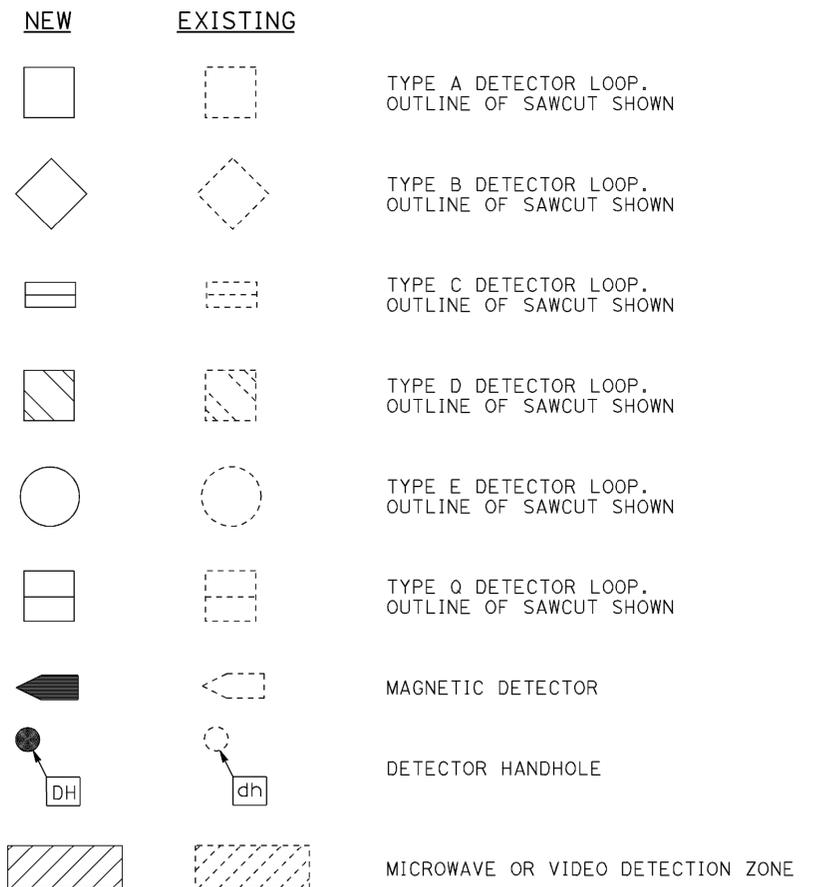
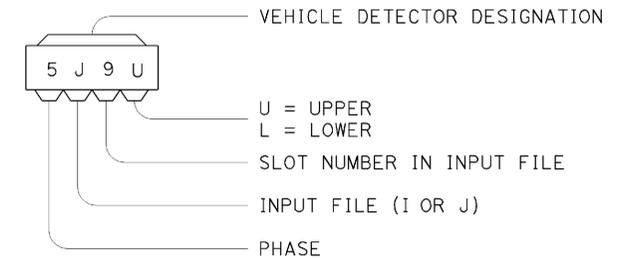
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

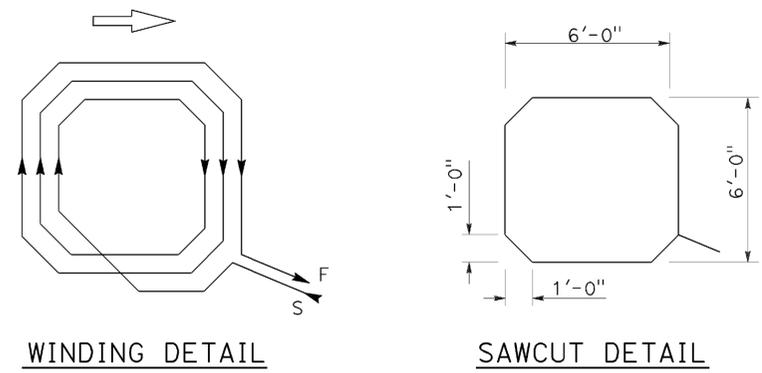
RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C
DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

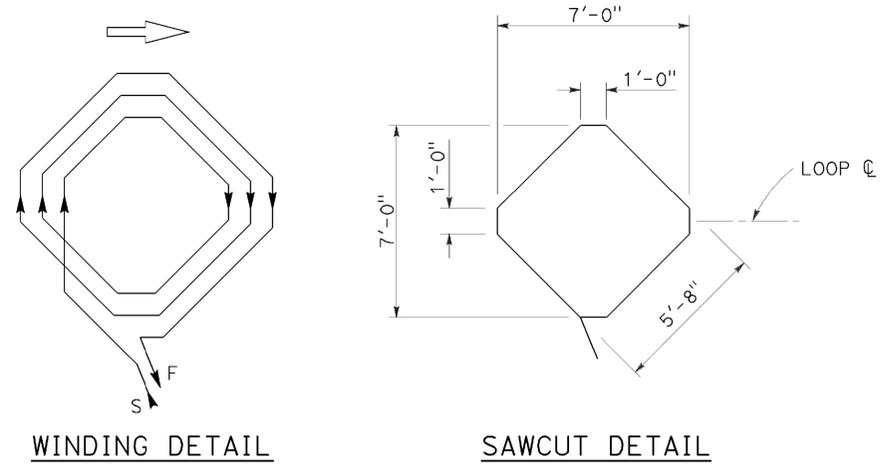
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	48	49
<i>Theresa Gabriel</i> REGISTERED ELECTRICAL ENGINEER No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA					
July 19, 2013 PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

TO ACCOMPANY PLANS DATED 02-03-14

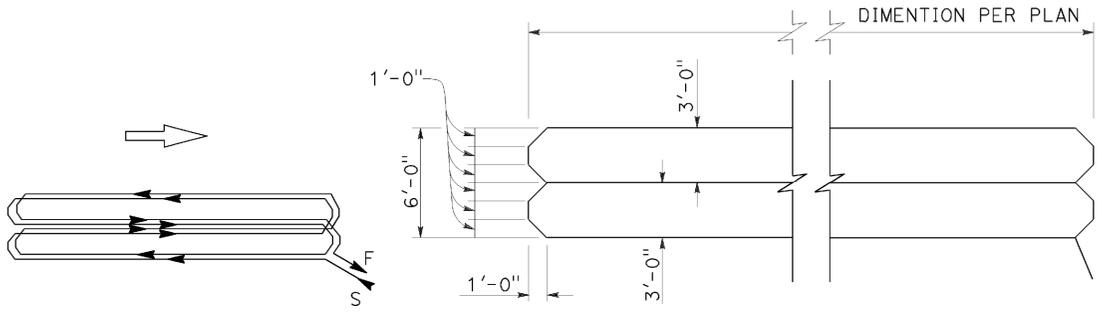
2010 REVISED STANDARD PLAN RSP ES-5B



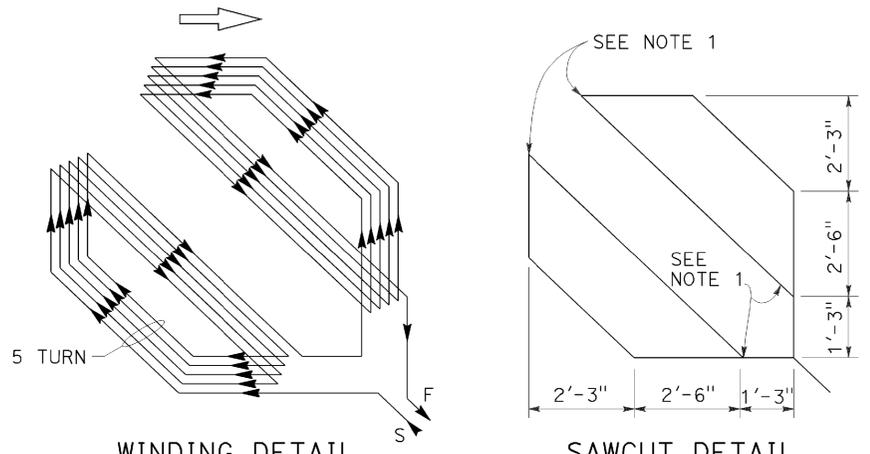
WINDING DETAIL
SAWCUT DETAIL
TYPE A LOOP DETECTOR CONFIGURATION



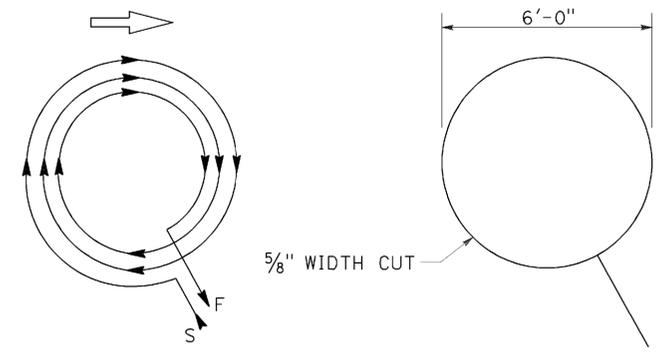
WINDING DETAIL
SAWCUT DETAIL
TYPE B LOOP DETECTOR CONFIGURATION



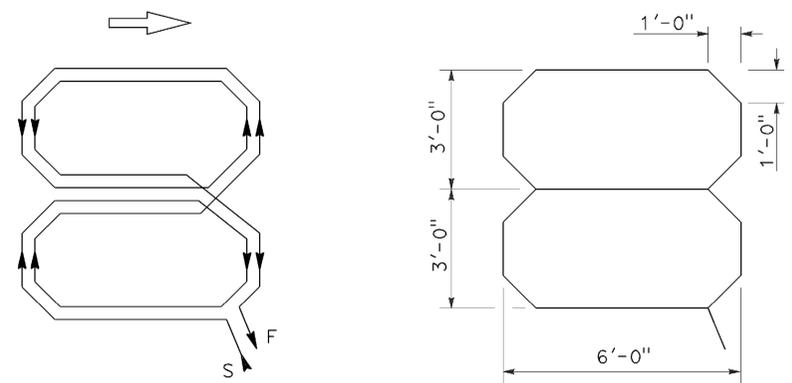
WINDING DETAIL
SAWCUT DETAIL
TYPE C LOOP DETECTOR CONFIGURATION



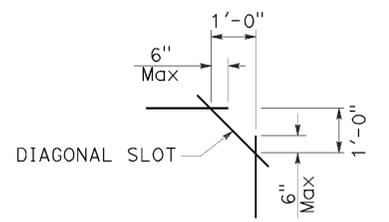
WINDING DETAIL
SAWCUT DETAIL
TYPE D LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE E LOOP DETECTOR CONFIGURATION



WINDING DETAIL
SAWCUT DETAIL
TYPE Q LOOP DETECTOR CONFIGURATION



**PLAN VIEW OF
DIAGONAL SLOT
AT CORNERS**

- NOTES:**
1. Round corners of acute angle sawcuts to prevent damage to conductors.
 2. Typical distance separating loops from edge to edge is 10' for Type A, B, D and E installation in single lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(DETECTORS)**

NO SCALE

RSP ES-5B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5B
DATED MAY 20, 2011 - PAGE 449 OF THE STANDARD PLANS BOOK DATED 2010.

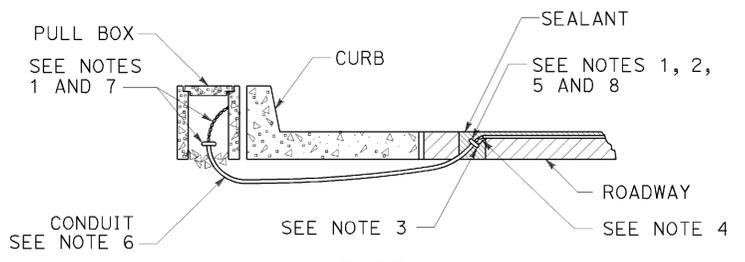
REVISED STANDARD PLAN RSP ES-5B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Sha,Sis	5	58.0/67.0, 0.0/2.7	49	49

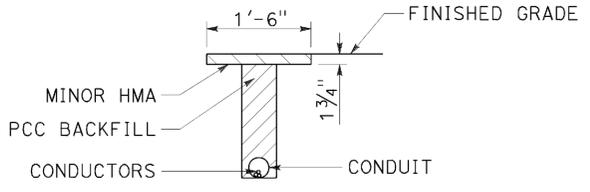
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



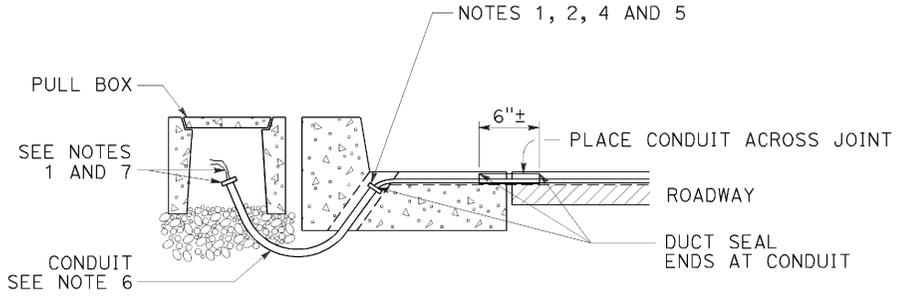
TO ACCOMPANY PLANS DATED 02-03-14



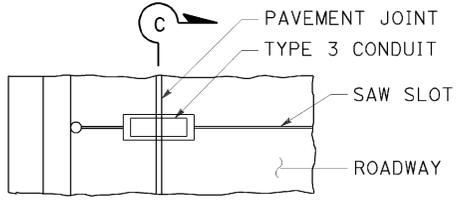
**TYPE A
CURB TERMINATION DETAIL**



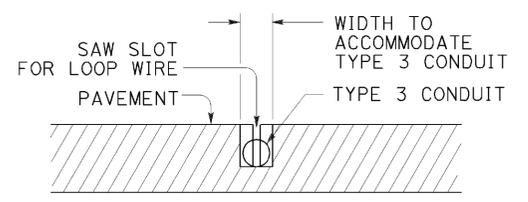
**"T" TRENCH
DETAIL T**



CROSS SECTION

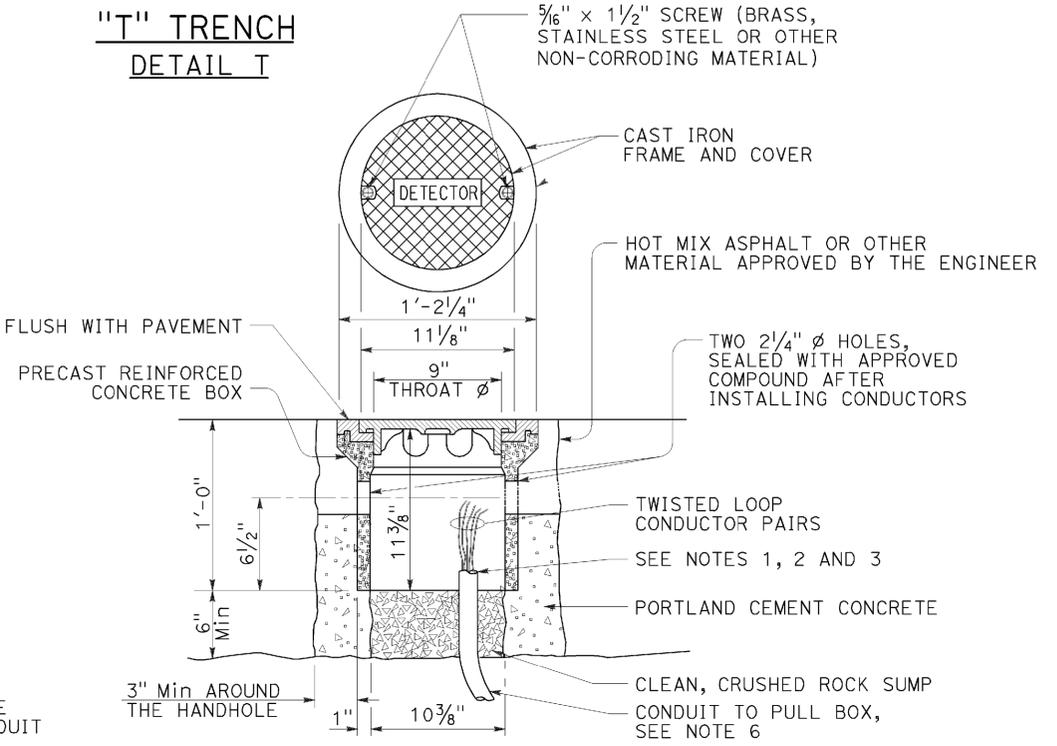


PLAN VIEW

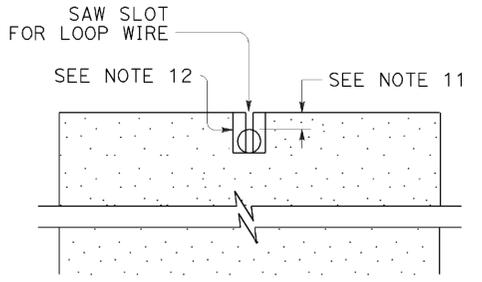


SECTION C-C

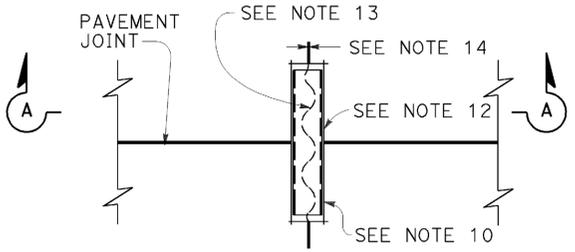
**TYPE B
CURB TERMINATION DETAIL**



DETECTOR HANDHOLE DETAIL

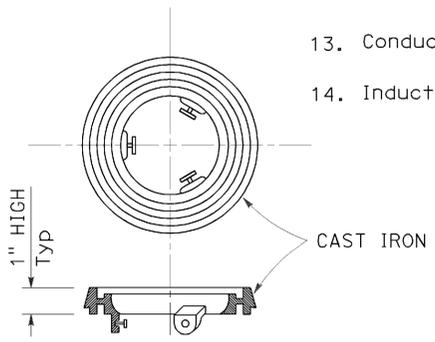


SECTION A-A

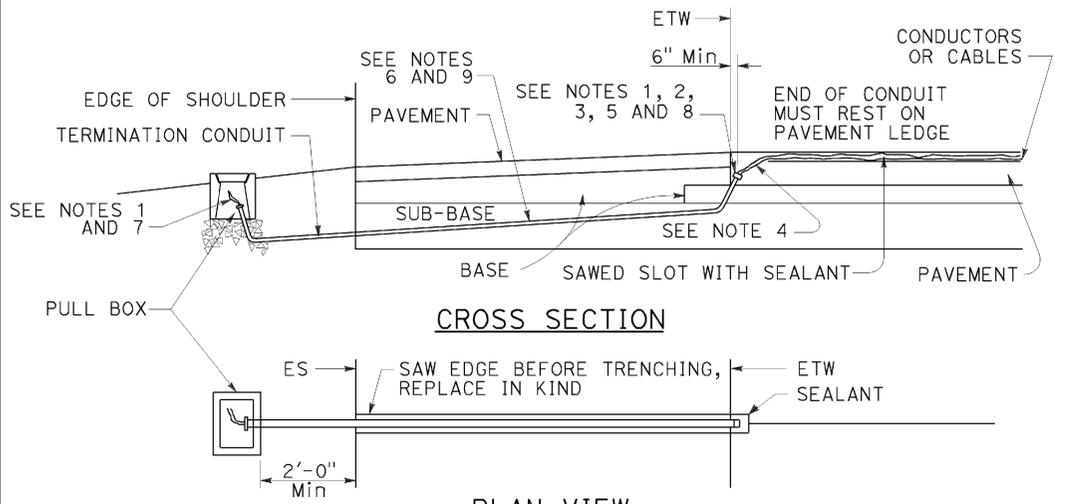


PLAN VIEW

**TYPICAL LOOP LEAD-IN DETAIL
AT PAVEMENT JOINT**



LOCKING GRADE RING



CROSS SECTION

**PLAN VIEW
SHOULDER TERMINATION DETAILS**

NOTES:

- Bushing shall be used at end of conduit.
- Tape detector conductors or cables 3" each side of bushings.
- Install duct seal compound to each end of termination conduit before installing sealant.
- Round all sharp edges where detector conductors or cables have to pass.
- End of conduit shall be 3/8" below roadway surface.
- | | |
|-----------------|-----------------|
| Conduit size | Loop conductors |
| 1"C minimum | 1 to 2 pairs |
| 1 1/2"C minimum | 3 to 4 pairs |
| 2"C minimum | 5 or more pairs |
- Splice detector conductors or cables to detector lead-in-cable.
- Location of detector handhole when shown on plans.
- When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
- 3/4"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
- 1/2" Minimum between top of conduit and pavement surface.
- Sawcut shall not exceed 1" in width and 1/8" longer than conduit to be installed.
- Conductors with 1/2" minimum slack inside conduit.
- Inductive loop detector saw slot.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(CURB TERMINATION
AND HANDHOLE)**
NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D
DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-5D

2010 REVISED STANDARD PLAN RSP ES-5D