Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	1	10

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION AREA SIGNS
4	PAVEMENT DELINEATION DETAILS
5	PAVEMENT DELINEATION QUANTITIES
6-7	SUMMARY OF QUANTITIES
8-9	TRAFFIC CONTROL SYSTEM
10	REVISED STANDARD PLAN

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

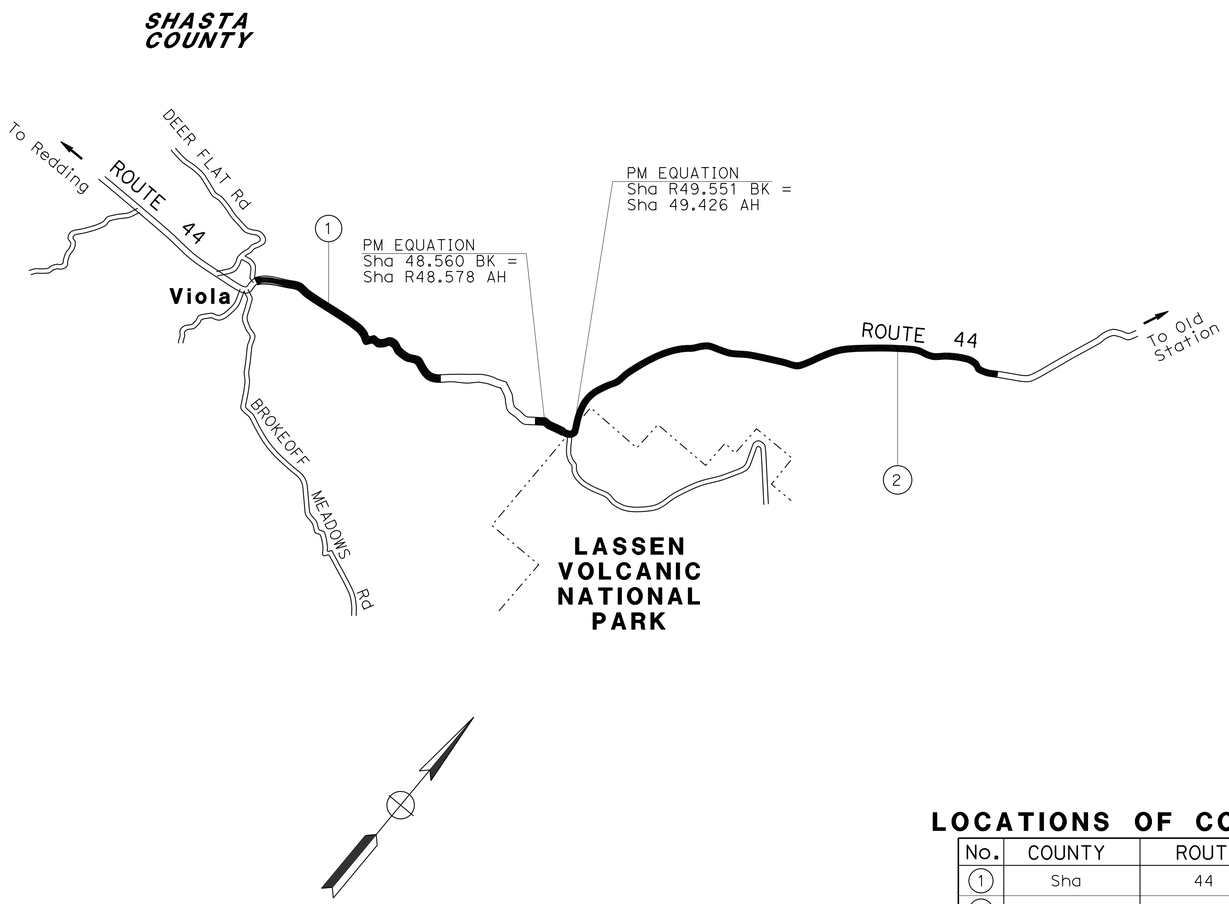
PROJECT PLANS FOR CONSTRUCTION ON

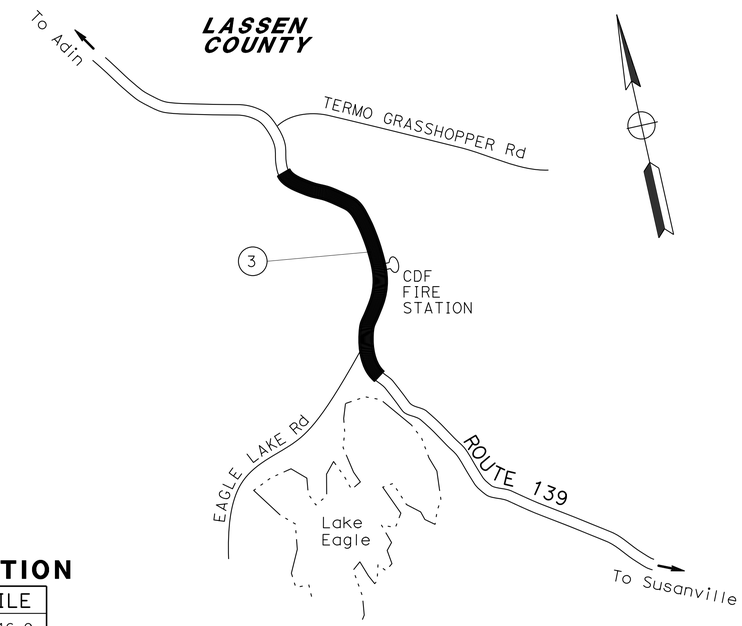
STATE HIGHWAY

IN LASSEN AND SHASTA COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP





LOCATIONS OF CONSTRUCTION

No.	COUNTY	ROUTE	POST MILE
1	Sha	44	43.2 TO 46.9
2	Sha	44	48.2 TO 57.0
3	Las	139	30.0 TO 40.0

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

NO SCALE

Scott C. Gregory 03-20-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

March 20, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT C. GREGORY
No. C75565
Exp. 06-30-14
CIVIL
STATE OF CALIFORNIA

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CONTRACT No.	02-4F1304
PROJECT ID	0212000117

PROJECT MANAGER: LANCE BROWN
DESIGN ENGINEER: LANCE BROWN

P:\proj1\02\4F130_plans\pse\24f130ab001.dgn

LAST REVISION 03-20-13 | DATE PLOTTED => 20-MAR-2013 | TIME PLOTTED => 14:05

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	2	10

REGISTERED CIVIL ENGINEER DATE 03-20-13

PLANS APPROVAL DATE 03-20-13

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA

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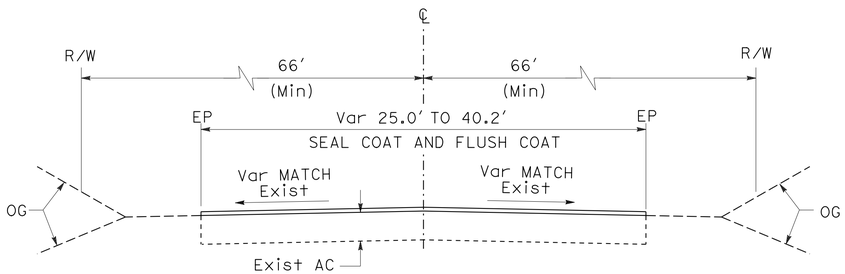
NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

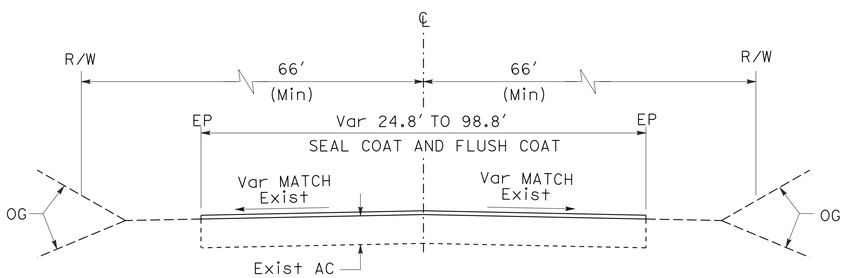
ABBREVIATIONS:

WMA WARM MIX ASPHALT



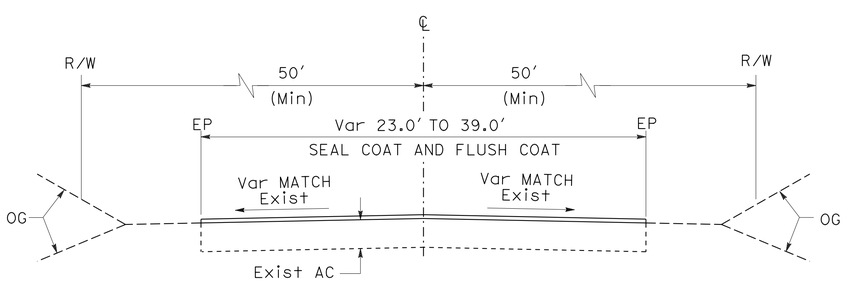
ASPHALT RUBBER SEAL COAT (TYPE II) WMA ADDITIVE

Loc 2 - Sha-44-53.23/53.70



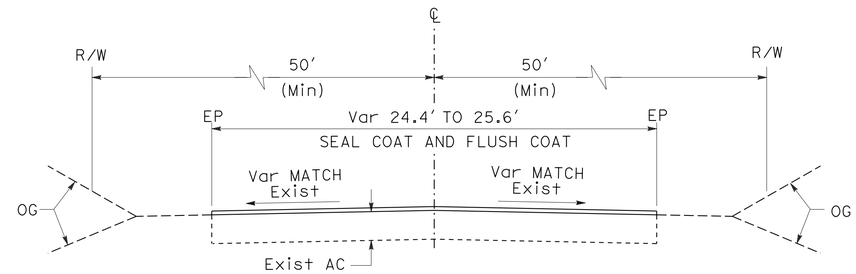
CRUMB RUBBER R18 SEAL COAT

Loc 2 - Sha-44-R49.24/53.23
Sha-44-56.00/57.00



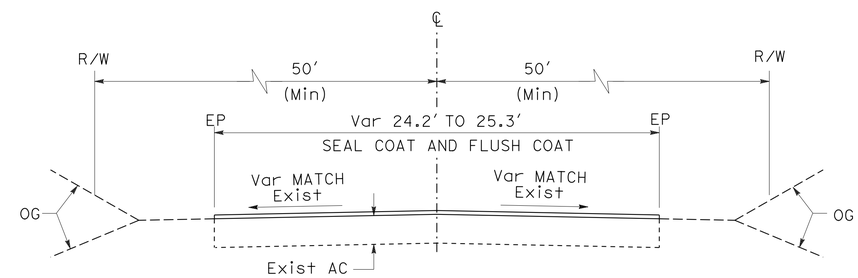
ASPHALT RUBBER SEAL COAT (TYPE II)

Loc 1 - Sha-44-43.20/46.85
Loc 2 - Sha-44-48.27/R49.24
Loc 3 - Las-139-30.00/40.00



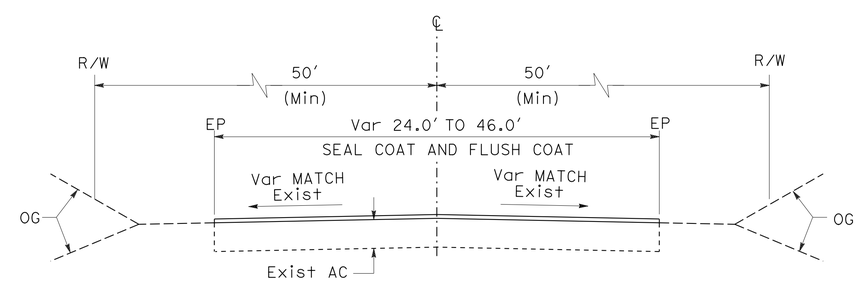
CRUMB RUBBER R18 SEAL COAT WMA ADDITIVE

Loc 2 - Sha-44-55.00/56.00



ASPHALT RUBBER SEAL COAT (TYPE I)

Loc 2 - Sha-44-54.34/55.00



ASPHALT RUBBER SEAL COAT (TYPE I) WMA ADDITIVE

Loc 2 - Sha-44-53.70/54.34

TYPICAL CROSS SECTIONS

NO SCALE

X-1

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SCOTT GREGORY | KARLIE SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | LANCE BROWN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	3	10

REGISTERED CIVIL ENGINEER 03-20-13 DATE

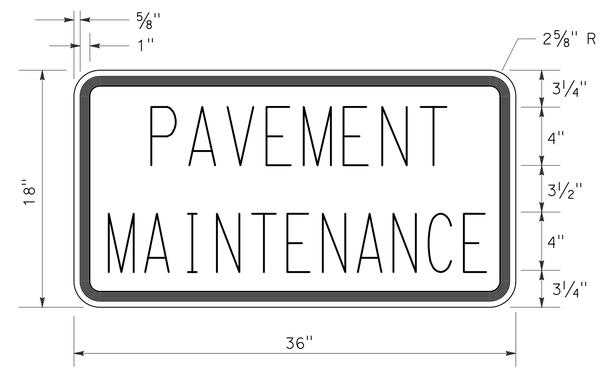
03-20-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA

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

NOTES:

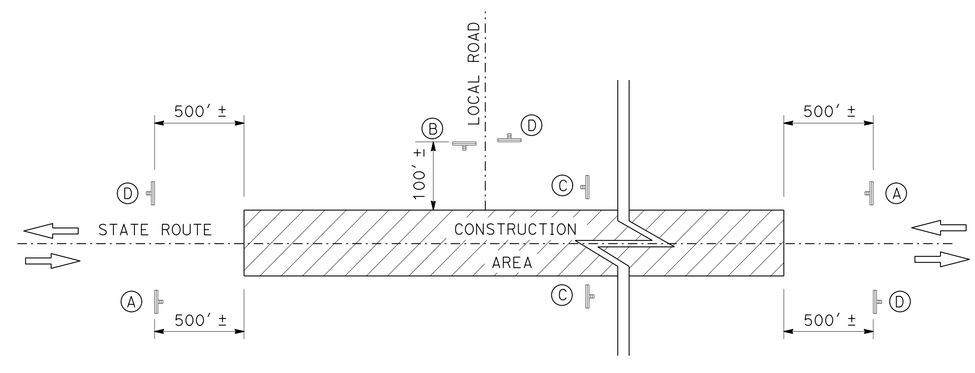
1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
3. INTERMEDIATE G20-1 SIGNS SHOULD BE PLACED EVERY 3 TO 5 MILES AS NECESSARY.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



C23B(CA) SIGN PANEL DETAIL

ROAD CONNECTIONS

LOCATION	Co-Rte	PM	DESCRIPTION	(B)	(D)
1	Sha-44	46.62	N BATTLE CREEK RESERVOIR Rd - L†	1	
		47.21	MINERAL Rd - R†	1	
2		49.35	LASSEN PARK ENTERANCE - R†	1	1
		51.13	BRIDGE CREEK Rd - L†	1	
		52.09	LOGGING Rd - L†	1	
		53.30	USFS Rd 32N16 - R†	1	
		53.30	USFS Rd 32N16 - L†	1	
		54.16	LOST CAMP Rd 32N15 - R†	1	
		54.26	USFS Rd - L†	1	
		55.30	LOGGING Rd CROSSING	1	
3	Las-139	30.83	SPAULDING-EAGLE LAKE Rd - L†	1	1
		33.62	S GRASSHOPPER Rd - R†	1	1



CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

TYPE	CODE	PANEL SIZE	SIGN MESSAGE	NUMBER AND SIZE OF POST	No. OF SIGNS
(A)	G20-1 C23B(CA)	36" x 18" 36" x 18"	ROAD WORK NEXT XX MILES PAVEMENT MAINTENANCE	1-4" x 6"	6
(B)	W20-1	48" x 48"	ROAD WORK AHEAD	1-4" x 6"	12
(C)	G20-1	36" x 18"	ROAD WORK NEXT XX MILES	1-4" x 4"	4
(D)	G20-2	36" x 18"	END ROAD WORK	1-4" x 4"	9

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

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02	Las,Sha	44,139	Var	4	10

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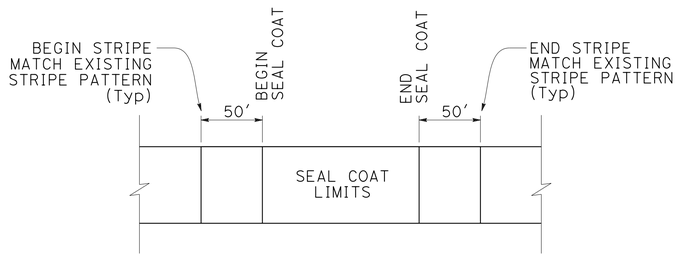
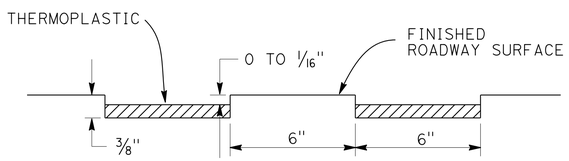
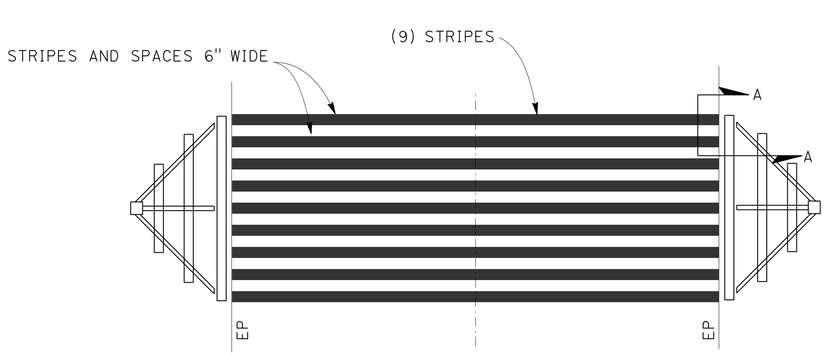


TRAFFIC STRIPE MATCH DETAIL



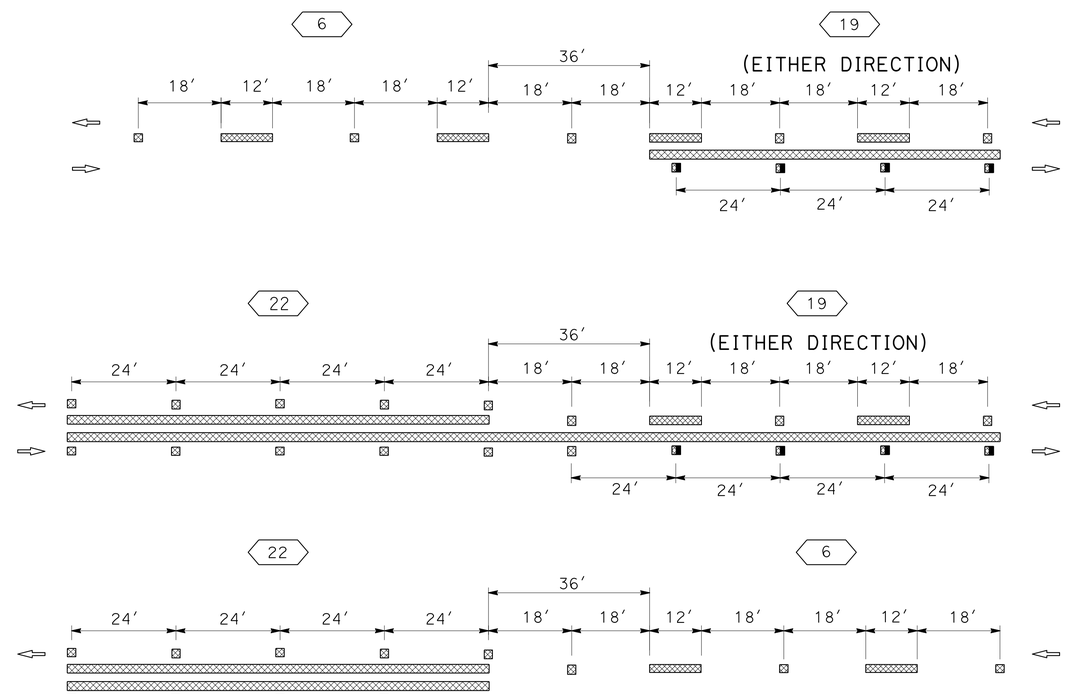
SECTION A-A



PLAN

THERMOPLASTIC TRAFFIC STRIPE (RECESSED) CATTLE GUARD

LOCATION 2 PM33.36



TYPICAL STRIPE TRANSITION DETAILS

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

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SCOTT GREGORY	KARLIE SMITH

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	5	10

REGISTERED CIVIL ENGINEER DATE 03-20-13

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REMOVE THERMOPLASTIC PAVEMENT MARKING

Loc	Co-Rte	PM	Lt	Rt	(N) EA	SQFT	REMARKS
2	Sha-44	R49.29		X	1	42	TYPE III (Rt) ARROW
		R49.35		X	1	42	TYPE III (Rt) ARROW
		R49.38	X		1	42	TYPE III (Lt) ARROW
3	Las-139	33.36	X	X	1	208	CATTLE GUARD
TOTAL						334	

THERMOPLASTIC PAVEMENT MARKING

Loc	Co-Rte	PM	Lt	Rt	(N) EA	SQFT	REMARKS
2	Sha-44	R49.29		X	1	42	TYPE III (Rt) ARROW
		R49.35		X	1	42	TYPE III (Rt) ARROW
		R49.35		X	1	34	ROAD CONNECTION LIMIT LINE
		R49.35		X	1	22	STOP
		R49.38	X		1	42	TYPE III (Lt) ARROW
		50.52	X		1	30	ROAD CONNECTION LIMIT LINE
		50.52	X		1	22	STOP
		50.91		X	1	33	ROAD CONNECTION LIMIT LINE
		50.91		X	1	22	STOP
		51.13	X		1	21	ROAD CONNECTION LIMIT LINE
		51.13	X		1	22	STOP
		53.30	X		1	28	ROAD CONNECTION LIMIT LINE
		53.30	X		1	22	STOP
		53.30		X	1	37	ROAD CONNECTION LIMIT LINE
		53.30		X	1	22	STOP
TOTAL						441	

THERMOPLASTIC TRAFFIC STRIPE (RECESSED)

Loc	Co-Rte	PM	Lt	Mid	Rt	EA	LF	REMARKS
3	Las-139	33.36	X	X	X	1	220.5	CATTLE GUARD
						TOTAL	220.5	

PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)

Loc	Co-Rte	PM LIMITS	TYPE D	TYPE G	TYPE H
			EA	EA	EA
1	Sha-44	43.20-46.85	1221	59	151
2	Sha-44	48.27-57.00	2729		417
SUBTOTAL			3950		568
TOTAL			4577		

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

Loc	Co-Rte	PM LIMITS	DETAIL 12	DETAIL 27B	DETAIL 27C	DETAIL 38
			LF	LF	LF	LF
1	Sha-44	43.20-46.85	1004	38,544		
2	Sha-44	48.27-57.00		91,873	1372	861
3	Las-139	30.00-40.00		105,245	355	
SUBTOTAL			1004	235,662	1727	861
TOTAL			239,254			

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE, TWO-COAT)

Loc	Co-Rte	PM LIMITS	DETAIL 5	DETAIL 6	DETAIL 18	DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 29
			LF	LF	LF	LF	LF	LF	LF
1	Sha-44	43.20-46.85		3802		3591		12,092	
2	Sha-44	48.27-57.00		8448		9980		28,090	634
3	Las-139	30.00-40.00	8501		18,850		25,450		
SUBTOTAL			8501	12,250	18,850	13,571	25,450	40,182	634
TOTAL			119,438						

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED

SCOTT GREGORY | KARLIE SMITH

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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02	Las,Sha	44,139	Var	6	10

REGISTERED CIVIL ENGINEER DATE 03-20-13

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NOTES:

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2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ABBREVIATIONS:

WMAA WARM MIX ASPHALT ADDITIVE

ROADWAY QUANTITIES SUMMARY

Loc	Co-Rte	POST MILE LIMITS	(N) LENGTH	(N) WIDTH	SEAL COAT: ASPHALT RUBBER BINDER (TYPE II)	SEAL COAT: CRUMB RUBBER R18 MODIFIED BINDER	SEAL COAT: ASPHALT RUBBER BINDER (TYPE II) WMAA	SEAL COAT: ASPHALT RUBBER BINDER (TYPE I) WMAA	SEAL COAT: ASPHALT RUBBER BINDER (TYPE I)	SEAL COAT: CRUMB RUBBER R18 MODIFIED BINDER WMAA	SEAL COAT: SCREENINGS (HOT-APPLIED)	FLUSH COAT: ASPHALTIC EMULSION (FLUSH COAT)	FLUSH COAT: SAND COVER (SEAL)
		PM - PM	LF	LF	TON	TON	TON	TON	TON	TON	TON	TON	TON
1	Sha-44	43.20-43.50	1584.0	25.0-23.0									
		43.50-44.00	2640.0	23.0-24.0									
		44.00-44.50	2640.0	24.0									
		44.50-45.00	2640.0	24.0									
		45.00-45.50	2640.0	24.0-23.5									
		45.50-46.00	2640.0	23.5-24.0	133.7						882.2	13.4	106.9
		46.00-46.50	2640.0	24.0-26.2									
		46.50-46.65	792.0	26.2-31.6									
		46.65-46.69	211.2	31.6-38.0									
		46.69-46.85	844.8	38.0-39.0									
2	Sha-44	48.27-48.33	316.8	35.0-24.3									
		48.33-48.50	897.6	24.3-24.4									
		48.50-48.56	316.8	24.4-26.8	42.3						279.1	4.2	33.8
		R48.58-R48.72	739.2	26.8-32.5									
		R48.72-R49.00	1478.4	32.5-32.6									
		R49.00-R49.24	1267.2	32.6-35.0									
		R49.24-R49.28	211.2	35.0-50.0									
		R49.28-R49.40	633.6	50.0-47.0									
		R49.40-R49.48	422.4	47.0-39.0									
		R49.48-R49.55	369.6	39.0-29.4									
		49.43-50.00	3009.6	29.4-25.0									
		50.00-50.50	2640.0	25.0-28.0									
		50.50-50.52	105.6	28.0-98.8									
		50.52-50.56	211.2	98.8-97.0		113.4					952.9	17.0	136.1
		50.56-50.59	158.4	97.0-26.8									
		50.59-51.00	2164.8	26.8-25.0									
		51.00-51.50	2640.0	25.0-26.0									
		51.50-52.00	2640.0	26.0-25.0									
		52.00-52.50	2640.0	25.0									
		52.50-53.23	3854.4	25.0									
		53.23-53.37	739.2	25.0-28.0									
		53.37-53.39	105.6	28.0-32.4			24.2				159.9	2.4	19.4
		53.39-53.45	316.8	32.4-40.2									
		53.45-53.70	1320.0	40.2-40.0									
		53.70-53.76	316.8	46.0-34.5									
		53.76-53.80	211.2	34.5-24.0				24.3			160.7	2.4	19.5
		53.80-54.34	2851.2	24.0-24.2									
		54.34-54.50	844.8	24.2-25.3									
		54.50-54.65	792.0	25.3									
		54.65-54.73	422.4	25.3-25.0					24.1		159.1	2.4	19.3
		54.73-55.00	1425.6	25.0-24.4									
		55.00-55.50	2640.0	24.4-25.6									
		55.50-55.75	1320.0	25.6-25.2						24.5	206.2	3.7	29.5
		55.75-56.00	1320.0	25.2-24.8									
		56.00-56.43	2270.4	24.8-25.3									
		56.43-56.46	158.4	25.3		24.7					207.5	3.7	29.6
		56.46-56.50	211.2	25.3-25.4									
		56.50-57.00	2640.0	25.4-25.5									
Loc 1 TOTAL					133.7						882.2	13.4	106.9
Loc 2 TOTAL					42.3	138.1	24.2	24.3	24.1	24.5	2125.4	35.8	287.2

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED

SCOTT GREGORY | KARLIE SMITH

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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PLANS APPROVAL DATE 03-20-13

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-14 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. (N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

EXISTING LOOP DETECTORS TO REMAIN IN PLACE AND OPERATIONAL (N)

ID #	ELEMENT	LOCATION Co-Rte-PM	DESCRIPTION
118	CONTROL	Sha-44-PM R49.10	1431' WEST OF LASSEN PARK ENTRANCE (2 LOOPS)

ROADWAY QUANTITIES SUMMARY

Loc	Co-Rte	POST MILE LIMITS	(N) LENGTH	(N) WIDTH	SEAL COAT							FLUSH COAT	
					ASPHALT RUBBER BINDER (TYPE II)	CRUMB RUBBER R18 MODIFIED BINDER	ASPHALT RUBBER BINDER (TYPE II) WMAA	ASPHALT RUBBER BINDER (TYPE I) WMAA	ASPHALT RUBBER BINDER (TYPE I)	CRUMB RUBBER R18 MODIFIED BINDER WMAA	SCREENINGS (HOT-APPLIED)	ASPHALTIC EMULSION (FLUSH COAT)	SAND COVER (SEAL)
		PM - PM	LF	LF	TON	TON	TON	TON	TON	TON	TON	TON	TON
3	Las-139	30.00-31.00	5280.0	23.7-23.5	346.8						2288.8	34.7	277.4
		31.00-32.00	5280.0	23.5									
		32.00-33.00	5280.0	23.5-23.4									
		33.00-34.00	5280.0	23.4-24.2									
		34.00-35.00	5280.0	24.2-23.2									
		35.00-36.00	5280.0	23.2-23.3									
		36.00-37.00	5280.0	23.3-23.1									
		37.00-38.00	5280.0	23.1-24.3									
		38.00-39.00	5280.0	24.3-24.4									
		39.00-40.00	5280.0	24.4-23.4									
Loc 3 TOTAL					346.8						2288.8	34.7	277.4
Loc 1 AND 2 TOTAL					176.0	138.1	24.2	24.3	24.1	24.5	3007.6	49.2	394.1
TOTAL					522.8	138.1	24.2	24.3	24.1	24.5	5296.4	83.9	671.5

SUMMARY OF QUANTITIES

Q-2

REVISED BY | DATE REVISED

SCOTT GREGORY | KARLIE SMITH

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® MAINTENANCE

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LAST REVISION 03-20-13 | DATE PLOTTED => 20-MAR-2013 | TIME PLOTTED => 14:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	8	10

REGISTERED CIVIL ENGINEER 12-7-12 DATE

03-20-13
PLANS APPROVAL DATE

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

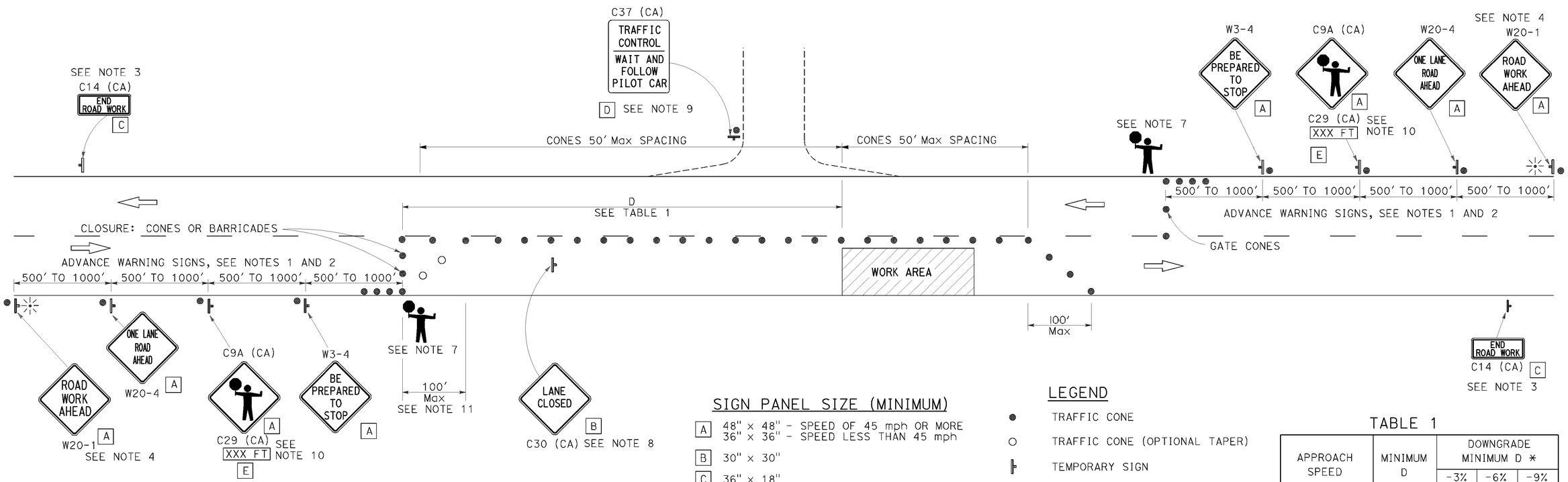
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A: 48" x 48" - SPEED OF 45 mph OR MORE; 36" x 36" - SPEED LESS THAN 45 mph
- B: 30" x 30"
- C: 36" x 18"
- D: 36" x 42"
- E: 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	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

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED-DESIGNED BY: GURINDERPAL BHULLAR
CHECKED BY: SCOTT GREGORY
REVISED BY / DATE REVISED

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DATE PLOTTED => 20-MAR-2013
TIME PLOTTED => 14:06

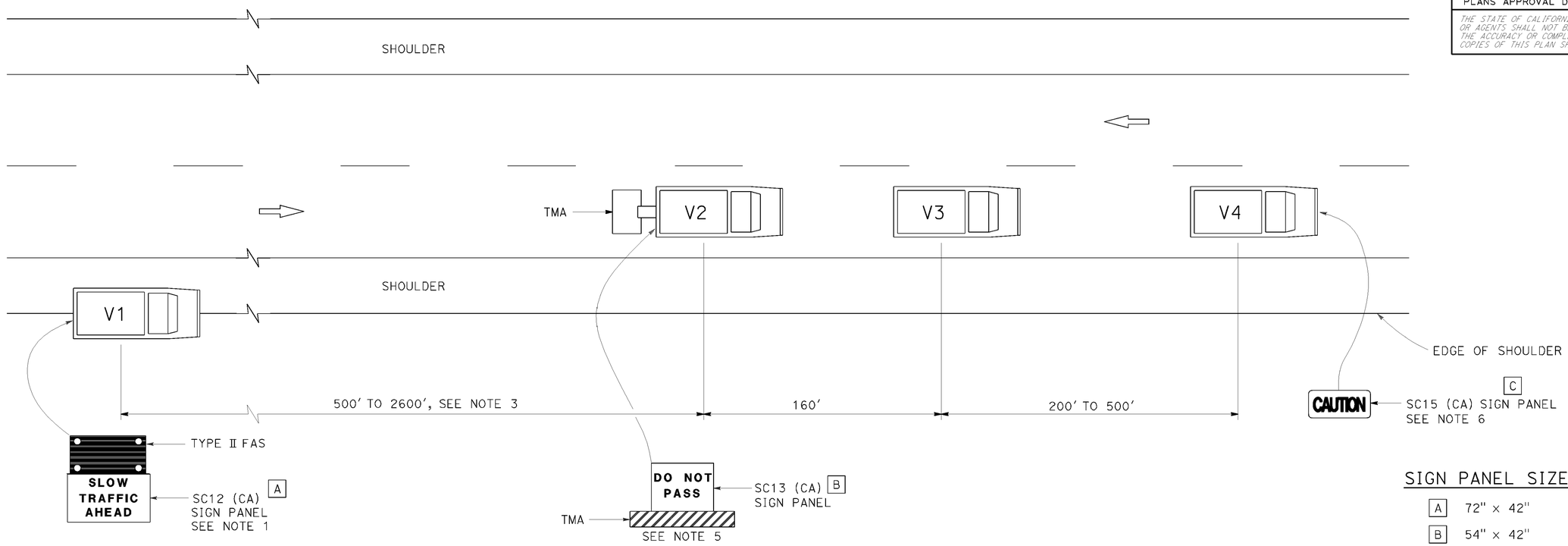
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	9	10

REGISTERED CIVIL ENGINEER 12-7-12 DATE

03-20-13
PLANS APPROVAL DATE

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

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



SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. 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.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-2

REVISED BY | DATE REVISED
GURINDERPAL BHULLAR | SCOTT GREGORY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LANCE BROWN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
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DATE PLOTTED => 20-MAR-2013 TIME PLOTTED => 14:06
LAST REVISION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las,Sha	44,139	Var	10	10

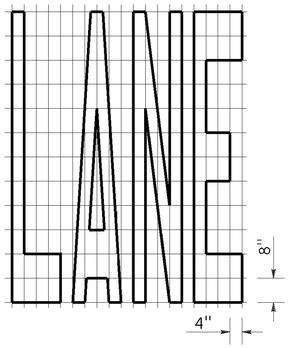
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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 03-20-13



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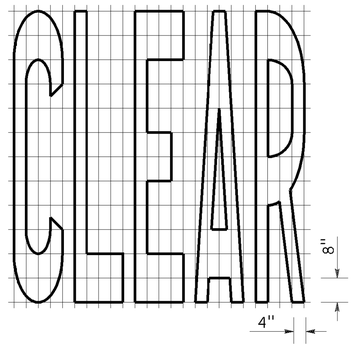

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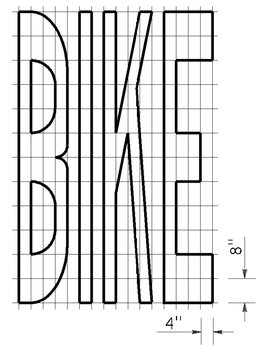

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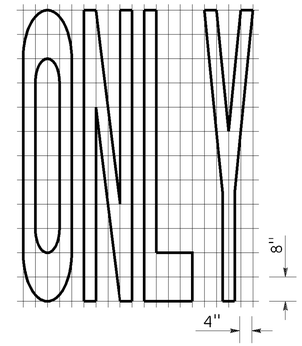

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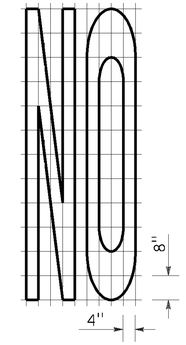

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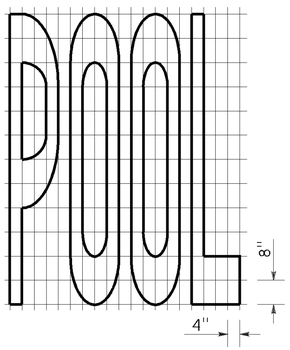

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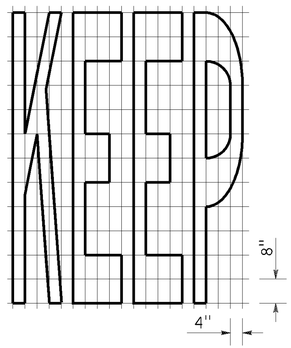

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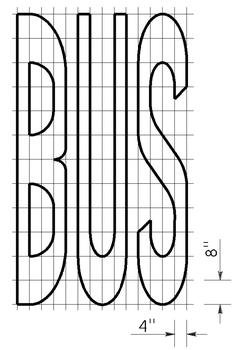

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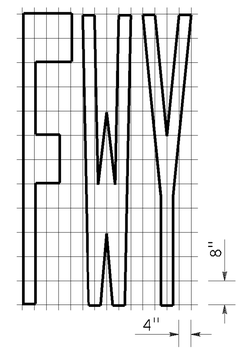
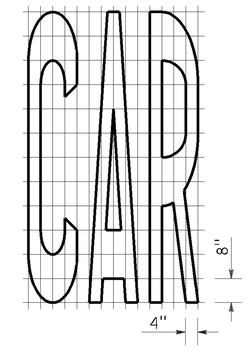


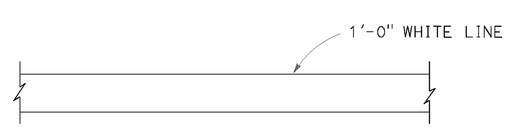
A=16 ft²



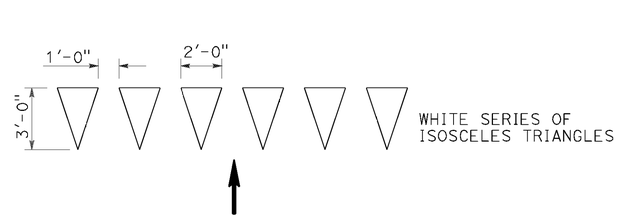
A=17 ft²

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. 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.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. 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.

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

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TIME PLOTTED => 14:06
6-12-12