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STRUCTURE PLANS

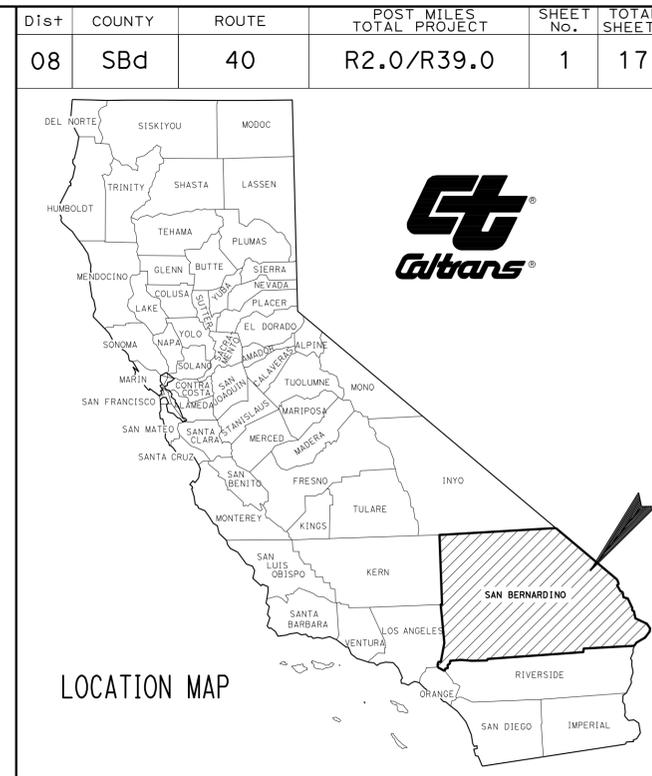
11-17 ROUTE 40 BRIDGES

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

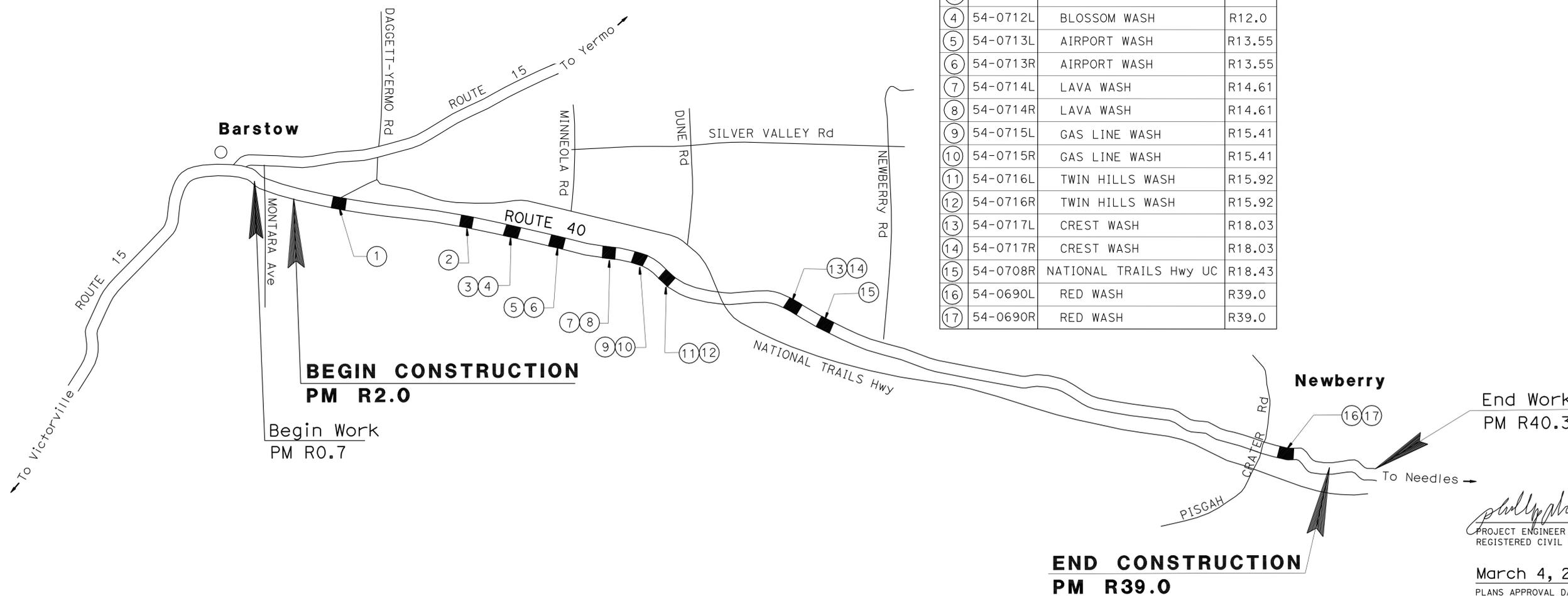
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**

**IN SAN BERNARDINO COUNTY
FROM 1.2 MILE WEST OF SOUTH MONTARA AVENUE UNDERCROSSING
TO 1.7 MILE WEST OF PISGAH CRATER ROAD UNDERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



#	BRIDGE NUMBER	BRIDGE NAME	PM
1	54-0656R	EAST MAIN STREET UC	R2.35
2	54-0711L	BLOOM WASH	R11.45
3	54-0712S	BLOSSOM WASH	R12.0
4	54-0712L	BLOSSOM WASH	R12.0
5	54-0713L	AIRPORT WASH	R13.55
6	54-0713R	AIRPORT WASH	R13.55
7	54-0714L	LAVA WASH	R14.61
8	54-0714R	LAVA WASH	R14.61
9	54-0715L	GAS LINE WASH	R15.41
10	54-0715R	GAS LINE WASH	R15.41
11	54-0716L	TWIN HILLS WASH	R15.92
12	54-0716R	TWIN HILLS WASH	R15.92
13	54-0717L	CREST WASH	R18.03
14	54-0717R	CREST WASH	R18.03
15	54-0708R	NATIONAL TRAILS Hwy UC	R18.43
16	54-0690L	RED WASH	R39.0
17	54-0690R	RED WASH	R39.0



NO SCALE

PROJECT MANAGER
CATALINO PINNING

 DESIGN ENGINEER
PHILLIP PHAN

PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 PHILLIP T PHAN
 No. 76425
 Exp. 12/31/14
 CIVIL
 STATE OF CALIFORNIA

02-06-13
 DATE
 March 4, 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.

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

CONTRACT No. **08-0Q7804**
 PROJECT ID **0800020473**

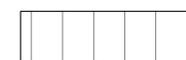
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

PHILLIP PHAN
 KUANG H. CHEN

FUNCTIONAL SUPERVISOR
 KEVIN CHEN

REVISOR
 DATE

LEGEND:

-  COLD PLANE 0.25'
-  HMA-C (HMA, TYPE C)
-  POLYESTER CONCRETE
(SEE STRUCTURE PLANS)

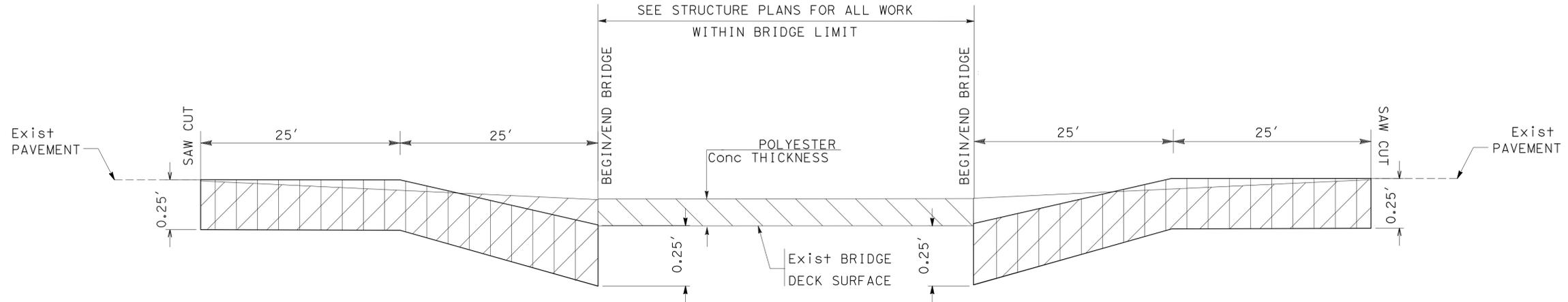
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	2	17

02-06-13
 REGISTERED CIVIL ENGINEER DATE

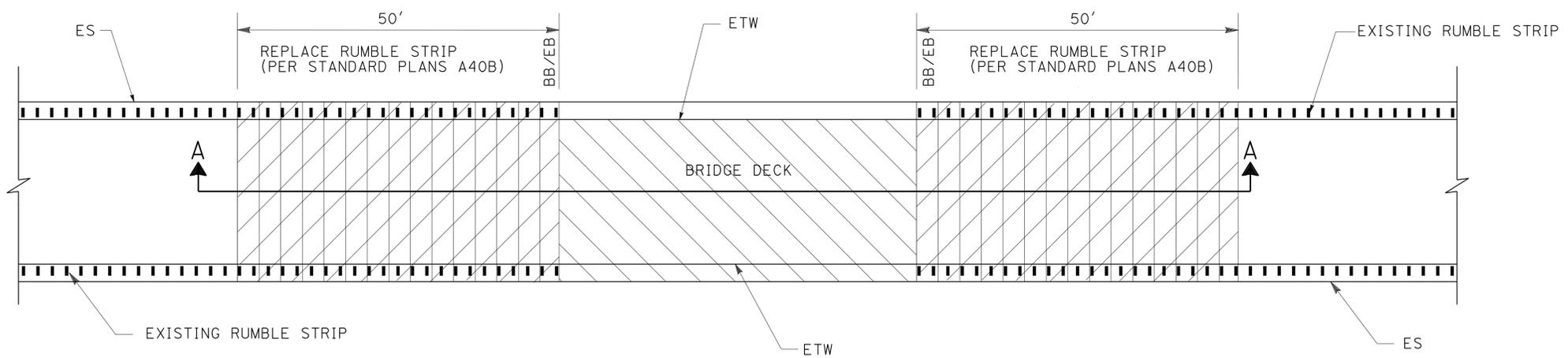
3-4-13
 PLANS APPROVAL DATE

PHILLIP T. PHAN
 No. 76425
 Exp. 12/31/14
 CIVIL

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TYPICAL PAVEMENT CONFORM (A-A)



TYPICAL PAVING CONFORM AT BEGIN AND END OF BRIDGE DECK POLYESTER CONCRETE OVERLAY

CONSTRUCTION DETAILS

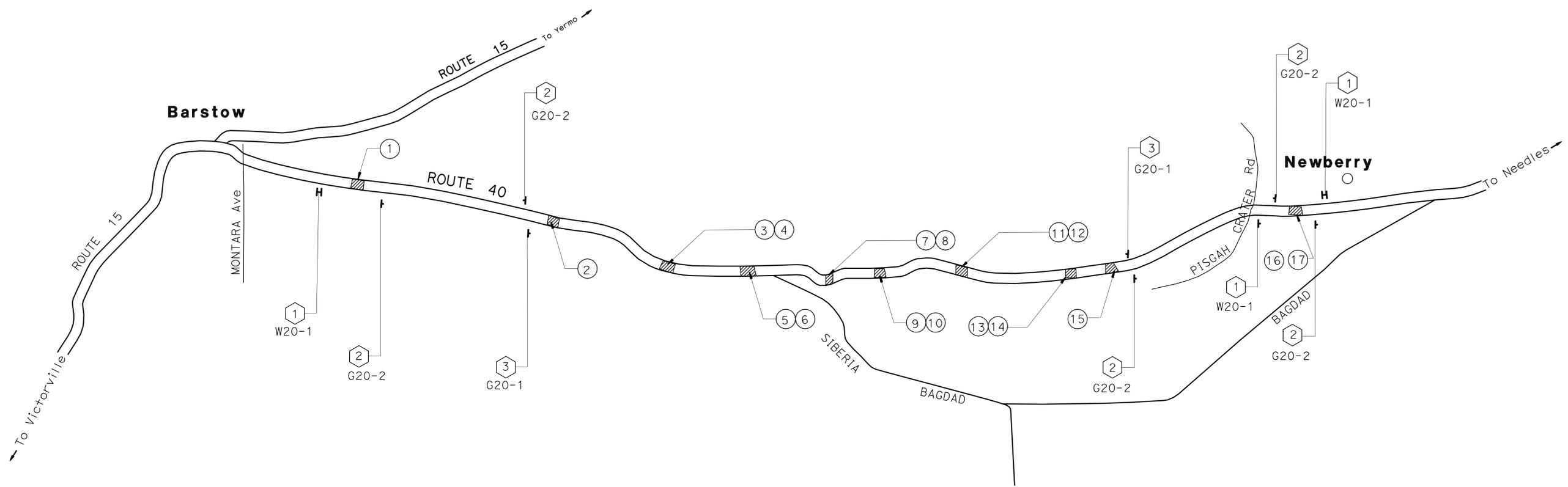
NO SCALE **C-1**

NOTES:

1. ALL LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SEE TITLE SHEET FOR LOCATION No.

LEGEND:

- WORK AREA
- CONSTRUCTION AREA SIGN (ONE POST)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION AREA SIGN NUMBER
- LOCATION NUMBER



STATIONARY CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	(N) No. OF SIGN EA
	FEDERAL	CALIFORNIA				
①	W20-1		48"X48"	RD WORK AHEAD	1-6" X 6"	3
②	G20-2		36"X18"	END RD WORK	1-4" X 4"	5
③	G20-1		60"X36"	RD WORK NEXT 7 MI.	1-4" X 6"	2

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

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

EA
2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

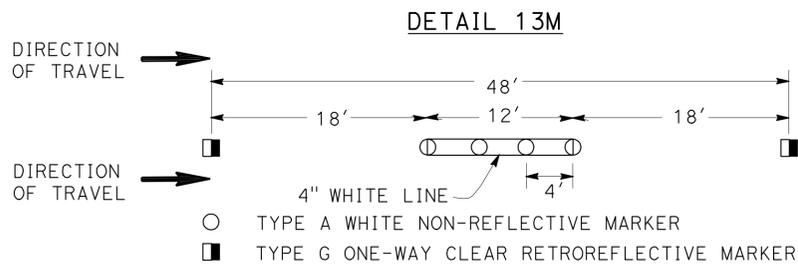
FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
BILL WASSER	KEVIN NGUYEN	THANH TRINH	
CHECKED BY	DESIGNED BY	REVISOR	DATE
	THANH TRINH		

APPROVED FOR CONSTRUCTION AREA SIGNS WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

LAST REVISION | DATE PLOTTED => 08-MAR-2013
 02-06-13 | TIME PLOTTED => 15:26



NOTE:

PAY ITEMS FOR REMOVAL OF TRAFFIC STRIPES INCLUDE BRIDGE DECK AREAS ONLY, NOT CONFORM AREAS. ALSO STRIPING QUANTITY REMOVAL ADJUSTED FOR BROKEN LINE IN STRIPING DETAIL.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	4	17

Thank Trinh 02-06-13
REGISTERED CIVIL ENGINEER DATE

3-4-13
PLANS APPROVAL DATE

T. TRINH
No. C41189
Exp. 3-31-15
CIVIL

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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	DIRECTION	DETAIL No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKERS	PAVEMENT MARKER (NON-RETROREFLECTIVE)	PAVEMENT MARKER (RETROREFLECTIVE)		THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	
			LF	LF	EA	TYPE A	TYPE G	TYPE H	4" YELLOW	4" WHITE
						EA	EA		LF	
LOCATION #1: PM R2.35	EB	13M		50	36	28	8			300
		25	200		8		8		300	
		27B		200						300
LOCATION #2: PM R11.45	WB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #3: PM R12.0	EB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #4: PM R12.0	WB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #5: PM R13.55	WB	13M		23	21	16	5			190
		25	90		5		5		190	
		27B		90						190
LOCATION #6: PM R13.55	EB	13M		23	21	16	5			190
		25	90		5		5		190	
		27B		90						190
LOCATION #7: PM R14.61	WB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #8: PM R14.61	EB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #9: PM R15.41	WB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #10: PM R15.41	EB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #11: PM R15.92	WB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #12: PM R15.92	EB	13M		15	21	16	5			160
		25	60		5		5		160	
		27B		60						160
LOCATION #13: PM R18.03	WB	13M		18	21	16	5			170
		25	70		5		5		170	
		27B		70						170
LOCATION #14: PM R18.03	EB	13M		18	21	16	5			170
		25	70		5		5		170	
		27B		70						170
LOCATION #15: PM R18.43	EB	13M		50	36	28	8			300
		25	200		8		8		300	
		27B		200						300
LOCATION #16: PM R39.0	WB	13M		20	21	16	5			180
		25	80		5		5		180	
		27B		80						180
LOCATION #17: PM R39.0	EB	13M		20	21	16	5			180
		25	80		5		5		180	
		27B		80						180
SUBTOTAL			1420	1777	478	296	91	91	3120	6060
TOTAL			1420	1777	478	296	182		9180	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	40	R2.0/R39.0	5	17

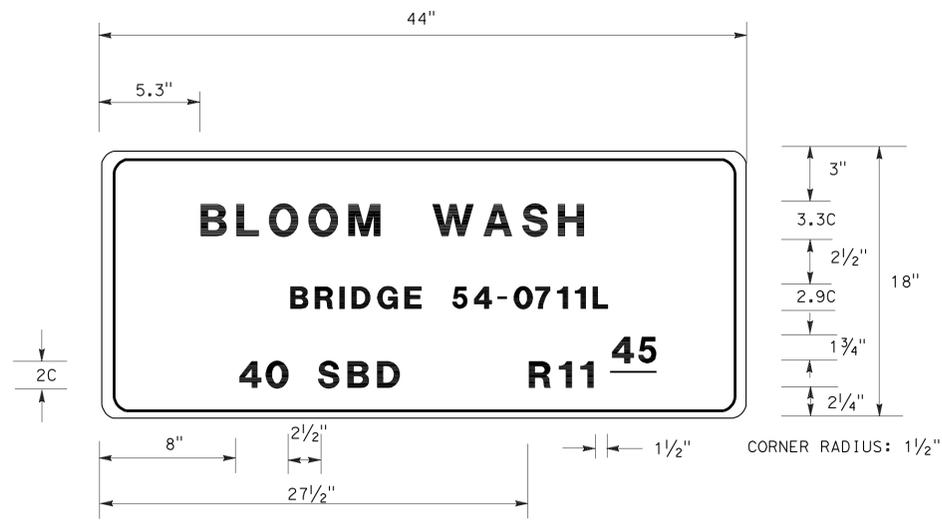
<i>Thank Trinh</i>		02-06-13
REGISTERED CIVIL ENGINEER	DATE	
3-4-13		
PLANS APPROVAL DATE		

REG. PROF. ENGINEER	T. TRINH
No. C41189	
Exp. 3-31-15	
CIVIL	

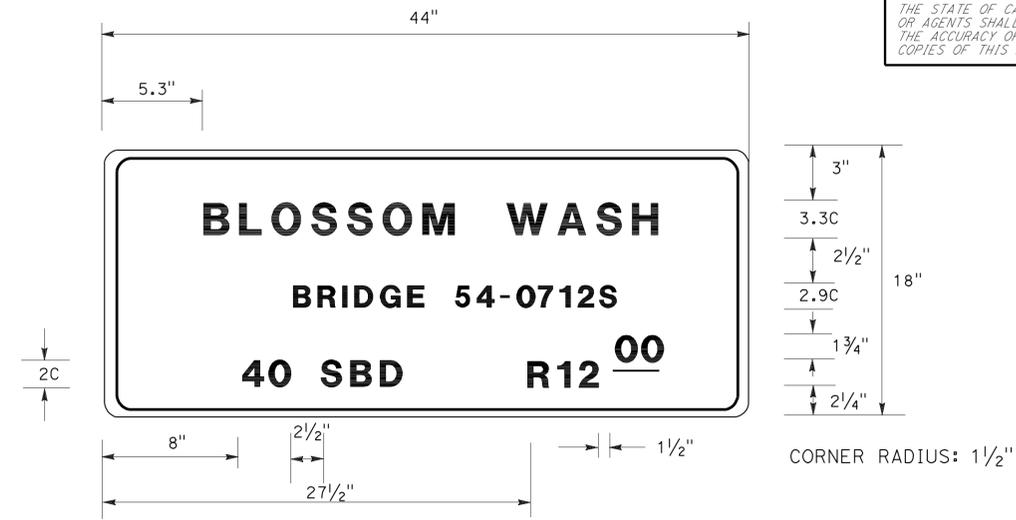
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. NEW G11-4.1 SIGNS (44" X 18" X 0.016" THICK) SHALL BE FURNISHED AND INSTALLED AT THE BRIDGE BY THE CONTRACTOR AND SHALL COMPLY WITH CALTRANS STANDARD PLANS RS1, RS2 AND RS3 FOR GUIDE SIGNS INSTALLATION.



BLACK ON WHITE
G11-4.1(CA) SIGN DETAIL FOR EASTBOUND

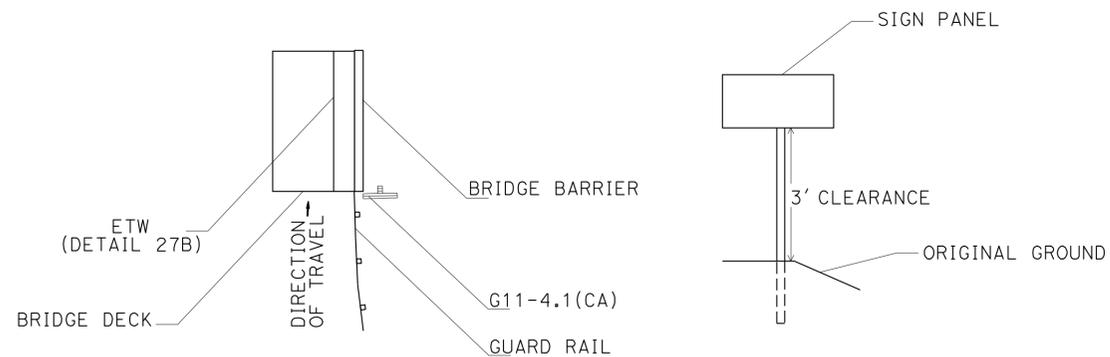


BLACK ON WHITE
G11-4.1(CA) SIGN DETAIL FOR EASTBOUND



BLACK ON WHITE
G11-4.1(CA) SIGN DETAIL FOR EASTBOUND

TYPICAL LOCATION AND INSTALLATION OF G11-4.1(CA) SIGN



SIGN DETAILS

SD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: BILL WASSER
 CALCULATED/DESIGNED BY: KEVIN NGUYEN
 CHECKED BY: THANH TRINH
 REVISED BY: DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	6	17

Thanh Trinh 02-06-13
 REGISTERED CIVIL ENGINEER DATE

3-4-13
 PLANS APPROVAL DATE

T. TRINH
 No. C41189
 Exp. 3-31-15
 CIVIL

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ABBREVIATIONS:

L = LENGTH OF SIGN
 D = DEPTH OF SIGN

LEGEND:

X APPLICABLE

SIGN PANEL MATERIAL QUANTITIES

SIGN CODE	SIGN SIZE L x D	FURNISH PANEL SIGN SQFT	SINGLE FACED	DOUBLE FACED	BACKGROUND		LEGEND		GRAFFITI FILM		ROADSIDE	REMARKS
		SINGLE SHEET ALUMINUM (0.063" UNFRAMED)			SHEETING COLOR	RETRO-REFLECTIVE ASTM TYPE	SHEETING COLOR	RETRO-REFLECTIVE ASTM TYPE	STANDARD	PREMIUM	SINGLE-SHEET	
											UNFRAMED ALUMINUM	
G11-4.1(CA)	44"x18"	16.5	X		WHITE		BLACK			X	0.063"	BRIDGE INVENTORY SIGN PANEL; QUANTITY: 3 EA
TOTAL		16.5										

ROADSIDE SIGN QUANTITIES

POST MILE	BRIDGE NUMBER	BRIDGE NAME	DIRECTION		SIGN CODE	PANEL SIZE	WOODPOST SIZE & LENGTH	ROADSIDE SIGN-ONE POST EA
			EASTBOUND	WESTBOUND				
R11.45	54-0711L	BLOOM WASH		YES	G11-4.1(CA)	44"x18"	4"x4"- 8'	1
R12.0	54-0712S	BLOSSOM WASH	YES		G11-4.1(CA)	44"x18"	4"x4"- 8'	1
R12.0	54-0712L	BLOSSOM WASH		YES	G11-4.1(CA)	44"x18"	4"x4"- 8'	1
TOTAL								3

NOTE:
 CALIFORNIA SIGN CODES ARE DESIGNATED BY (CA); OTHERWISE, FEDERAL SIGN CODES ARE SHOWN

SIGN QUANTITIES

SQ-1



REVISOR BY
 PHILLIP PHAN
 KEVIN CHEN

DESIGNED BY
 KEVIN CHEN

CHECKED BY

DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	40	R2.0/R39.0	7	17

 02-06-13
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 PHILLIP T. PHAN
 No. 76425
 Exp. 12/31/14
 CIVIL
 STATE OF CALIFORNIA

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DETAILS SHOWN APPLY ONLY AT THE FOLLOWING LOCATIONS

NAME	BRIDGE No.	WIDTH	LENGTH	COLD PLANE	THICKNESS	HMA TYPE C	TACK COAT	RUMBLE STRIP
				SQYD	FT	TON	TON	STA
EAST MAIN STREET UC	54-0656R	41'	100'	456	0.20'-0.26'	80	0.15	2
BLOOM WASH	54-0711L	41'	100'	456	0.20'-0.26'	80	0.15	2
BLOSSOM WASH	54-0712S	22'	100'	244	0.20'-0.26'	43	0.08	2
BLOSSOM WASH	54-0712L	55.6'	100'	618	0.20'-0.26'	109	0.21	2
AIRPORT WASH	54-0713L	39'	100'	433	0.20'-0.26'	76	0.14	2
AIRPORT WASH	54-0713R	41'	100'	456	0.20'-0.26'	80	0.15	2
LAVA WASH	54-0714L	41'	100'	456	0.20'-0.26'	80	0.15	2
LAVA WASH	54-0714R	41'	100'	456	0.20'-0.26'	80	0.15	2
GAS LINE WASH	54-0715L	39'	100'	433	0.20'-0.26'	76	0.14	2
GAS LINE WASH	54-0715R	39'	100'	433	0.20'-0.26'	76	0.14	2
TWIN HILLS WASH	54-0716L	39'	100'	433	0.20'-0.26'	76	0.14	2
TWIN HILLS WASH	54-0716R	39'	100'	433	0.20'-0.26'	76	0.14	2
CREST WASH	54-0717L	41'	100'	456	0.20'-0.26'	80	0.15	2
CREST WASH	54-0717R	39'	100'	433	0.20'-0.26'	76	0.14	2
NATIONAL TRAILS HIGHWAY UC	54-0708R	39'	100'	433	0.20'-0.26'	76	0.14	2
RED WASH	54-0690L	39'	100'	433	0.20'-0.26'	76	0.14	2
RED WASH	54-0690R	39'	100'	433	0.20'-0.26'	76	0.14	2
TOTAL				7495		1316	2.45	34

SUMMARY OF QUANTITIES

NO SCALE **Q-1**

LAST REVISION | DATE PLOTTED => 08-MAR-2013
 02-06-13 | TIME PLOTTED => 12:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	40	R2.0/R39.0	8	17

<i>Gurinderpal Bhullar</i>	12-7-12
REGISTERED CIVIL ENGINEER	DATE
3-4-13	
PLANS APPROVAL DATE	

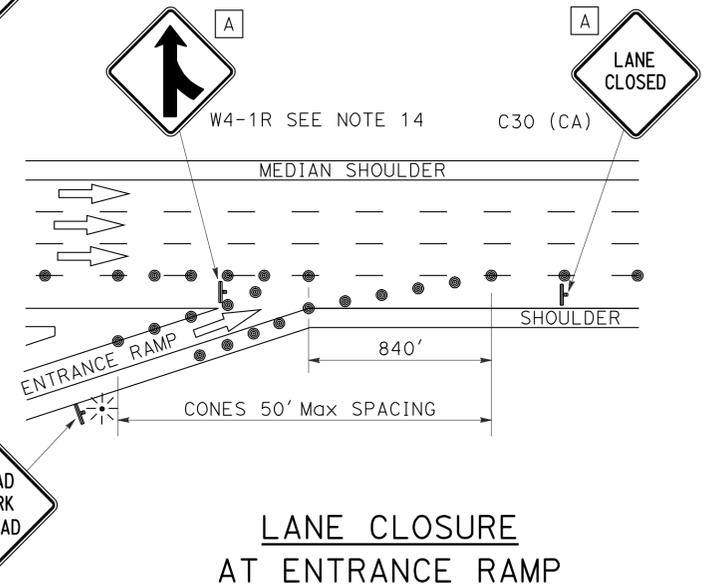
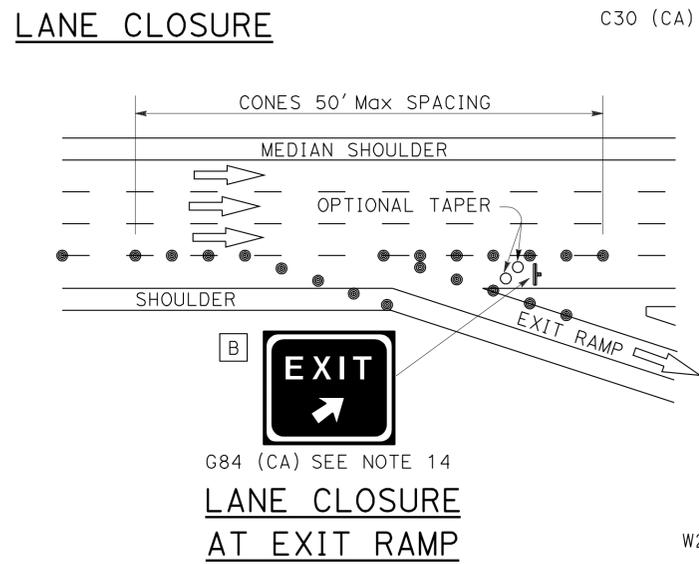
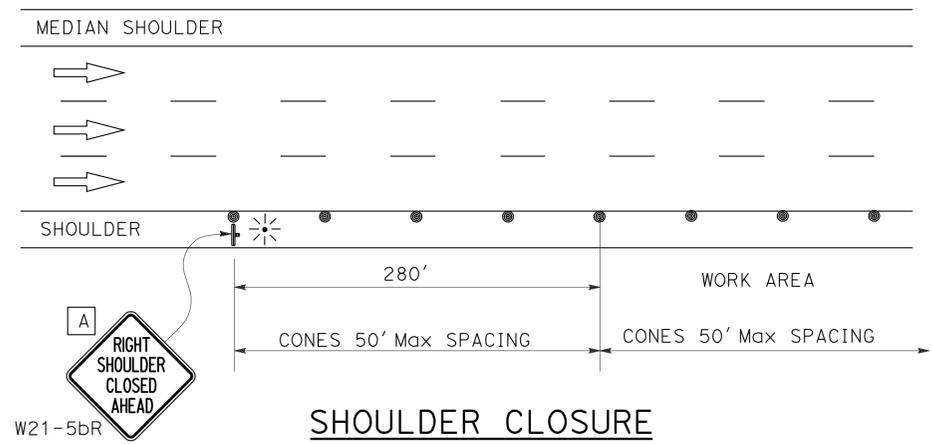
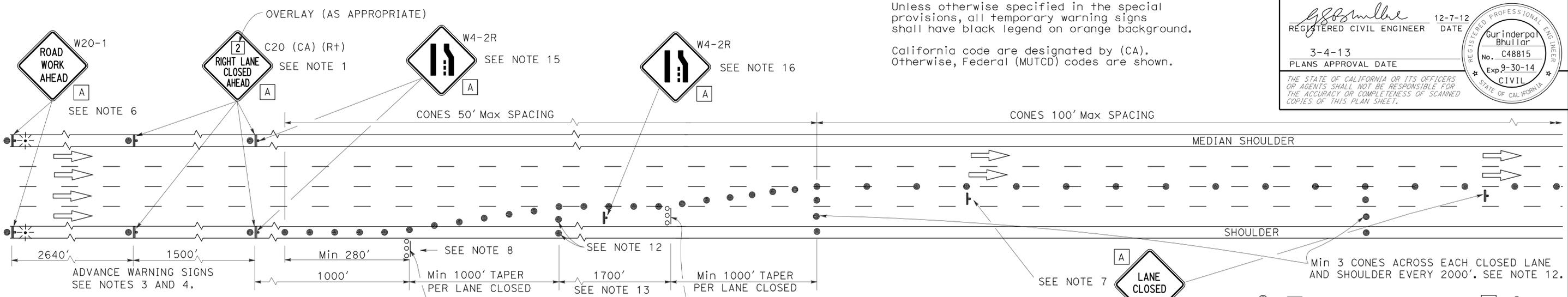
No. C48815
 Exp. 9-30-14
 CIVIL

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.



NOTES:

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
- All cones used for lane 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 closures only.

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
- The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 54" x 48"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⬇️ TEMPORARY SIGN
- ⚡ FLASHING ARROW SIGN (FAS)
- ☰ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
FREEWAYS AND EXPRESSWAYS**

NO SCALE

TCS-1

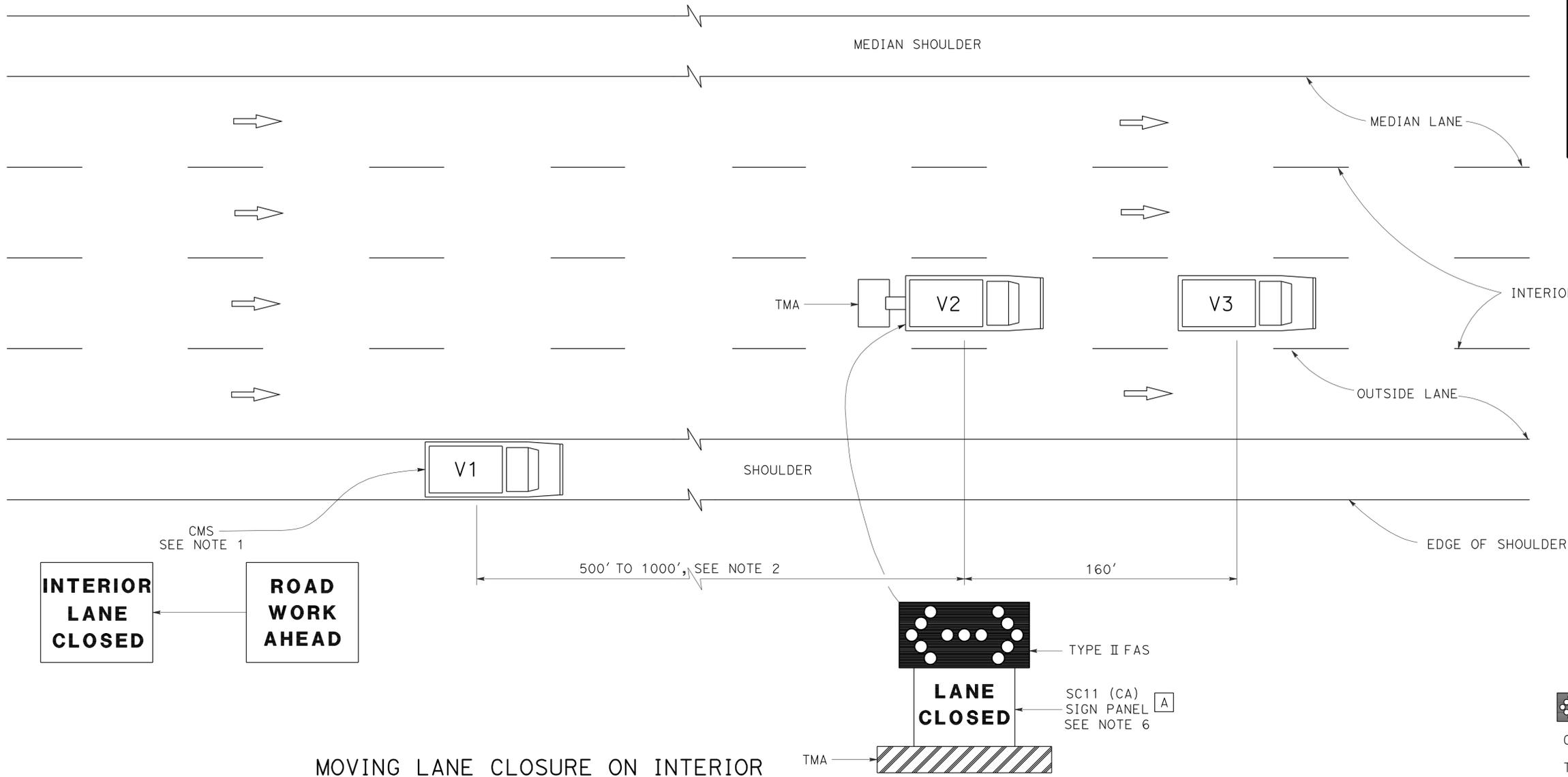
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	10	17

12-7-12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 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.



INTERIOR LANE CLOSED
ROAD WORK AHEAD

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

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message 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 "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. 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.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. 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'.
5. 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.
6. Gross Vehicle Weight of shadow vehicle V2 shall be a minimum of 20,000 pounds and 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.
7. 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.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. Where sufficient shoulder width is not available, sign vehicle V1 may encroach into the traffic lane staying as close to the edge of shoulder as practicable. Both V1 and V2 shall be equipped with a truck-mounted attenuator. The Gross Vehicle Weight of V1 and V2 shall be at least 20,000 pounds, respectively.
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 MULTILANE HIGHWAYS
 (INTERIOR LANES)**
 NO SCALE
TCS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 REVISIONS:
 00-00-00 DATE PLOTTED => 08-MAR-2013
 00-00-00 TIME PLOTTED => 09:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	11	17

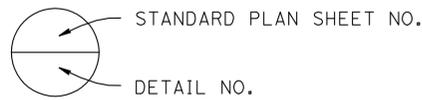
09/25/12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	MISCELLANEOUS DETAILS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)



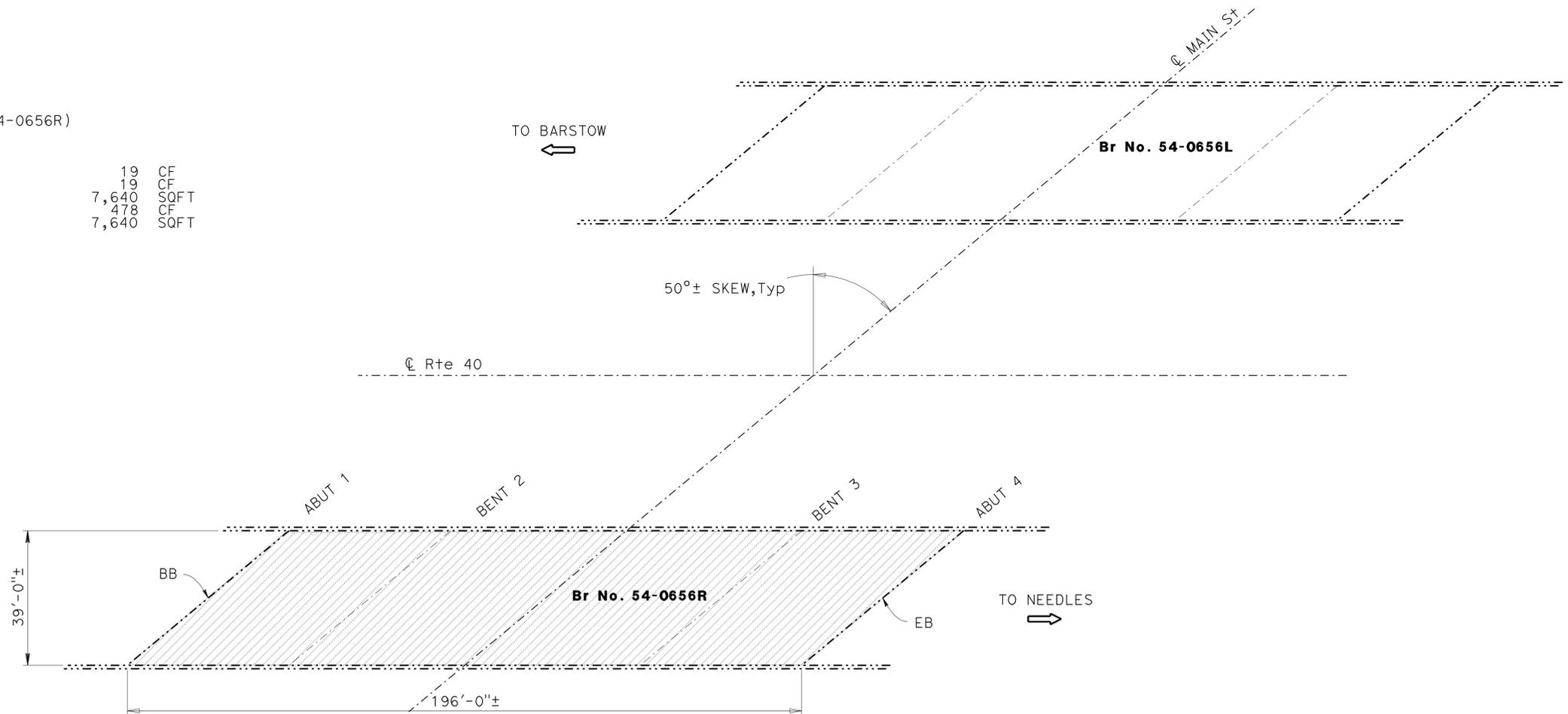
LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Concrete shall be placed in one lift.

EAST MAIN STREET UC (BR. NO. 54-0656R)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	19	CF
REMOVE UNSOUND CONCRETE	19	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,640	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	478	CF
PLACE POLYESTER CONCRETE OVERLAY	7,640	SQFT



EAST MAIN STREET UC

Br No. 54-0656R, Rte 40, PM R2.35
1" = 30'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 40 BRIDGES GENERAL PLAN NO. 1	
	DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim	LAYOUT	BY Tom Dang			CHECKED Edward Nahm	POST MILE		Varies
	QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	SPECIFICATIONS	BY Karen Doll			CHECKED Karen Doll	PLANS AND SPECS COMPARED		Varies

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3489 PROJECT NUMBER & PHASE: 0800020473 1 CONTRACT NO.: 08-007801 DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-24-12 REVISION DATES SHEET 01 OF 07

USERNAME => s119571 DATE PLOTTED => 08-MAR-2013 TIME PLOTTED => 12:47

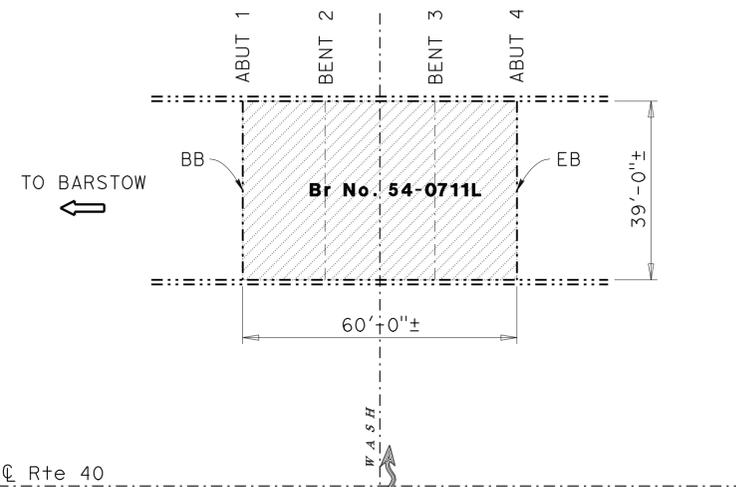
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	12	17
			09/25/12		
REGISTERED CIVIL ENGINEER			DATE		
3-4-13			PLANS APPROVAL DATE		
			REGISTERED PROFESSIONAL ENGINEER MAZIN S. IBRAHIM No. C69896 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

LEGEND:

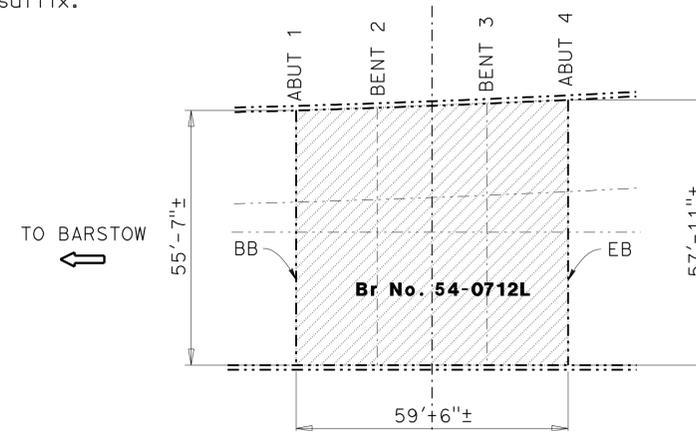
- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Concrete shall be placed in one lift.
- Ⓢ Indicates location to add "S" to bridge ID suffix.

BLOOM WASH (BR. NO. 54-0711L)
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	6	CF
REMOVE UNSOUND CONCRETE	2,340	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	146	CF
FURNISH POLYESTER CONCRETE OVERLAY	2,340	SQFT

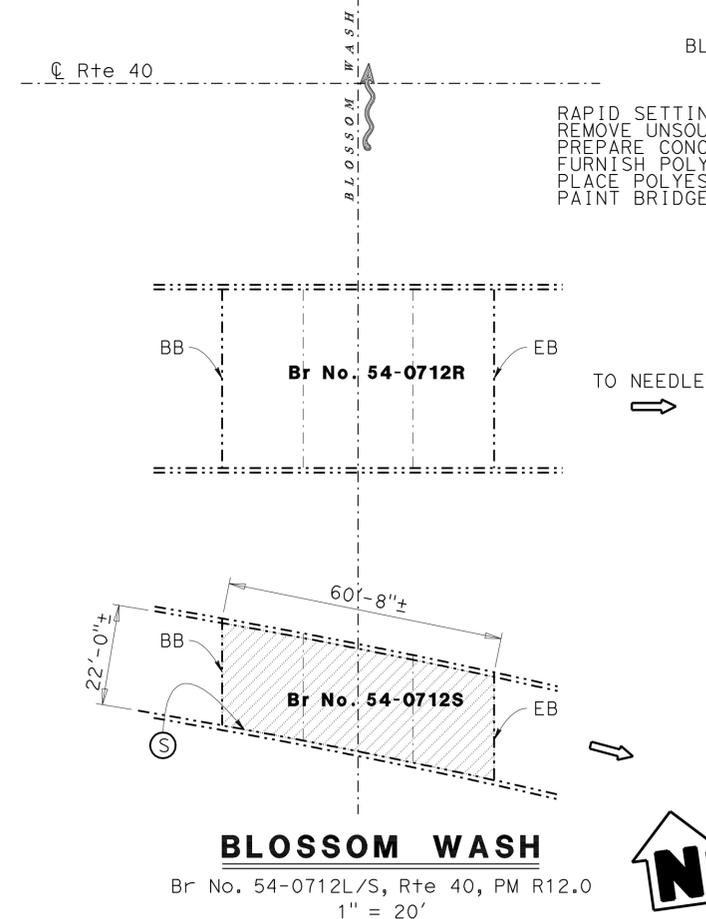


BLOOM WASH
Br No. 54-0711L, Rte 40, PM R11.45
1" = 20'



BLOSSOM WASH (BR. NO. 54-0712L/S)
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	13	CF
REMOVE UNSOUND CONCRETE	13	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,715	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	295	CF
PLACE POLYESTER CONCRETE OVERLAY	4,715	SQFT
PAINT BRIDGE NAME AND NUMBER	1	EA



BLOSSOM WASH
Br No. 54-0712L/S, Rte 40, PM R12.0
1" = 20'

NOTE:
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DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim	LAYOUT	BY Tom Dang
QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	SPECIFICATIONS	BY Karen Doll

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE
		Varies

ROUTE 40 BRIDGES GENERAL PLAN NO. 2		REVISION DATES	SHEET	OF
		3-24-12	02	07

USERNAME => s119571 DATE PLOTTED => 08-MAR-2013 TIME PLOTTED => 09:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	13	17
			09/25/12	DATE	
			3-4-13	PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER MAZIN S. IBRAHIM No. C69896 Exp. 09/30/14 CIVIL STATE OF CALIFORNIA					
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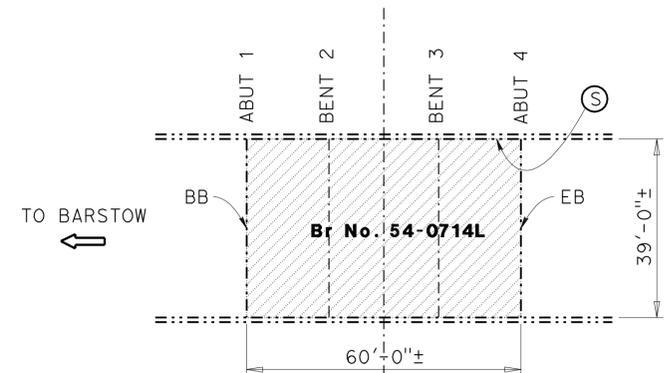
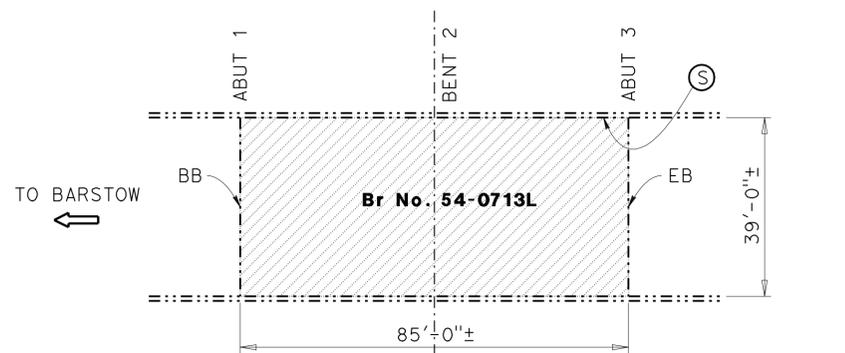
LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Concrete shall be placed in one lift.
- Ⓢ Indicates location to stencil the bridge ID on barrier rail.

AIRPORT WASH (BR. NO. 54-0713L/R)

QUANTITIES

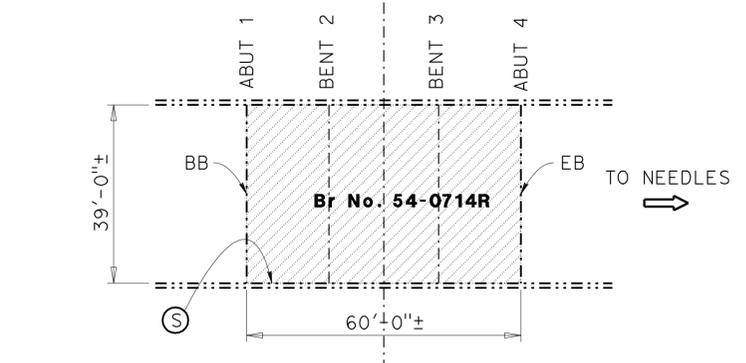
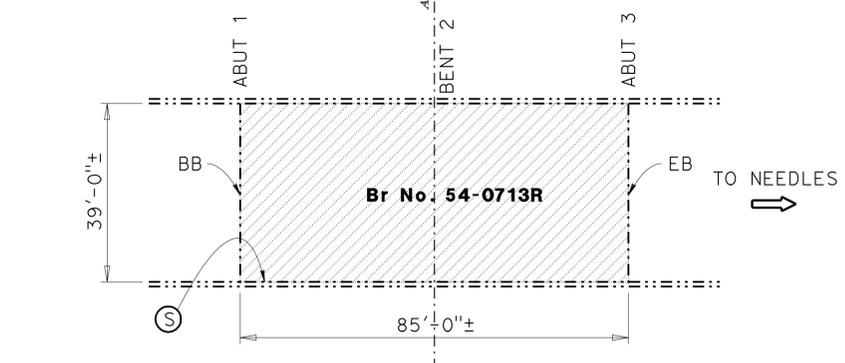
RAPID SETTING CONCRETE (PATCH)	18	CF
REMOVE UNSOUND CONCRETE	18	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,630	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	414	CF
PLACE POLYESTER CONCRETE OVERLAY	6,630	SQFT
PAINT BRIDGE NAME AND NUMBER	2	EA



LAVA WASH (BR. NO. 54-0714L/R)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	12	CF
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,680	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	293	CF
PLACE POLYESTER CONCRETE OVERLAY	4,680	SQFT
PAINT BRIDGE NAME AND NUMBER	2	EA



AIRPORT WASH

Br No. 54-0713L/R, Rte 40, PM R13.55
1" = 20'



LAVA WASH

Br No. 54-0714L/R, Rte 40, PM R14.61
1" = 20'



NOTE:
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DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim	LAYOUT	BY Tom Dang
QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	SPECIFICATIONS	BY Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 40 BRIDGES
GENERAL PLAN NO. 3

USERNAME => s1119571 DATE PLOTTED => 08-MAR-2013 TIME PLOTTED => 09:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	14	17

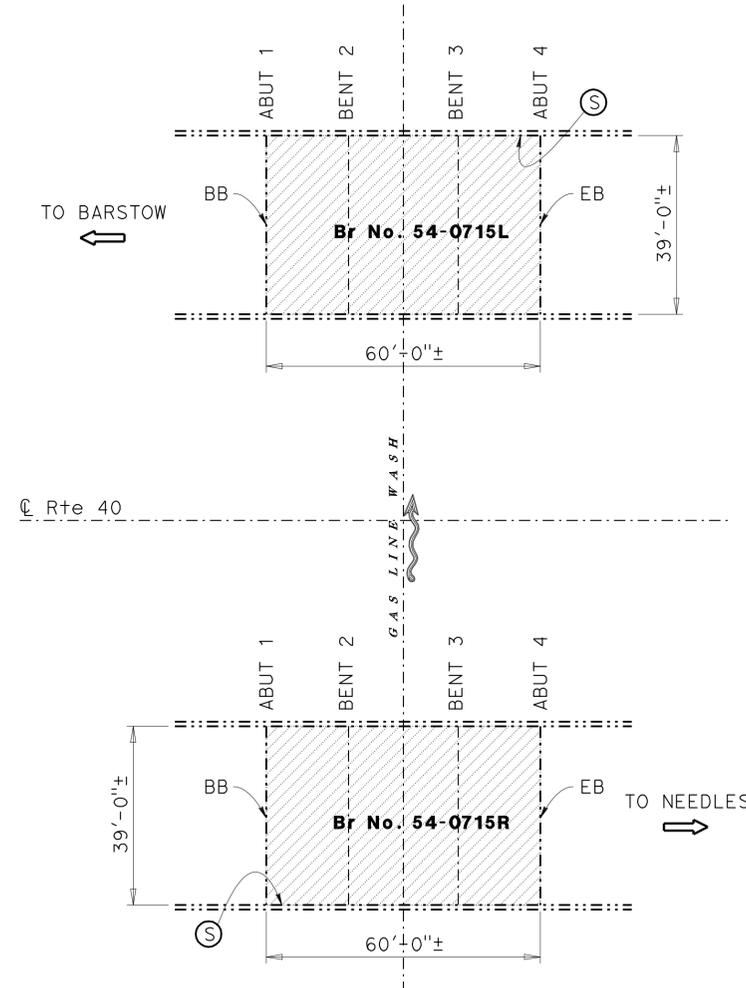
09/25/12
 REGISTERED CIVIL ENGINEER DATE
 3-4-13
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/14
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Concrete shall be placed in one lift.
- Ⓢ Indicates location to stencil on barrier rail add "R" for the right bridge and "L" for the left bridge.

GAS LINE WASH (BR. NO. 54-0715L/R)
QUANTITIES

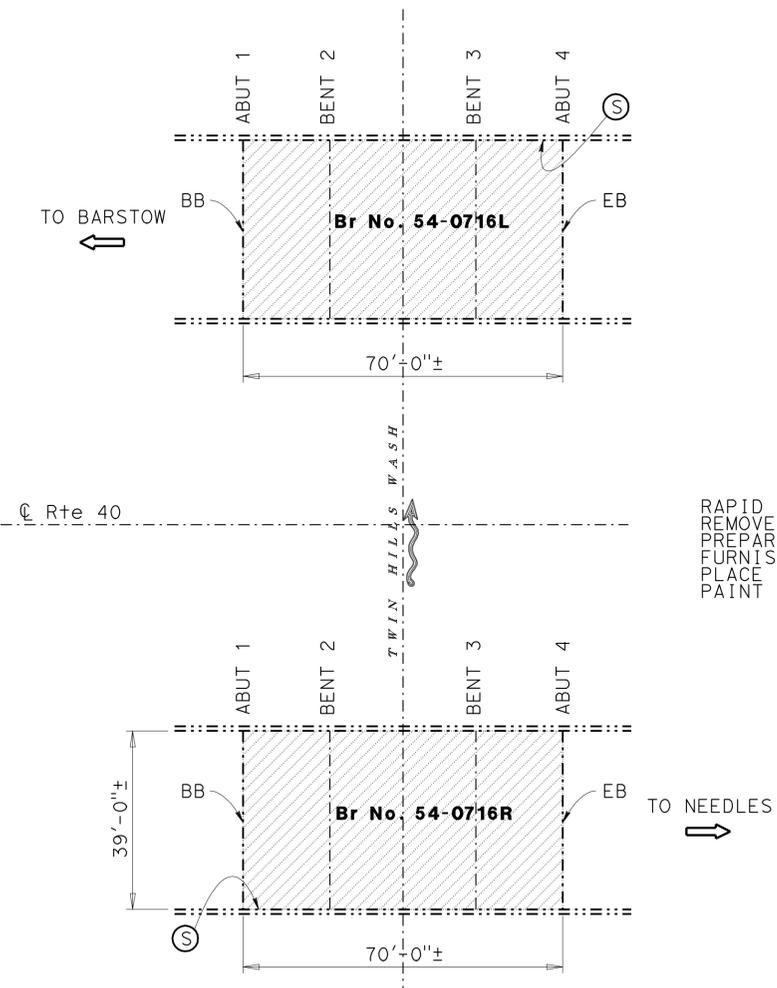
RAPID SETTING CONCRETE (PATCH)	12	CF
REMOVE UNSOUND CONCRETE	12	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,680	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	293	CF
PLACE POLYESTER CONCRETE OVERLAY	4,680	SQFT
PAINT BRIDGE NAME AND NUMBER	2	EA



GAS LINE WASH
Br No. 54-0715L/R, Rte 40, PM R15.41
1" = 20'

TWIN HILLS WASH (BR. NO. 54-0716L/R)
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	14	CF
REMOVE UNSOUND CONCRETE	14	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,460	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	342	CF
PLACE POLYESTER CONCRETE OVERLAY	5,460	SQFT
PAINT BRIDGE NAME AND NUMBER	2	EA



TWIN HILLS WASH
Br No. 54-0716L/R, Rte 40, PM R15.92
1" = 20'

NOTE:
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DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim	LAYOUT	BY Tom Dang
QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	SPECIFICATIONS	BY Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 40 BRIDGES
GENERAL PLAN NO. 4

USERNAME => s1119571 DATE PLOTTED => 08-MAR-2013 TIME PLOTTED => 09:54

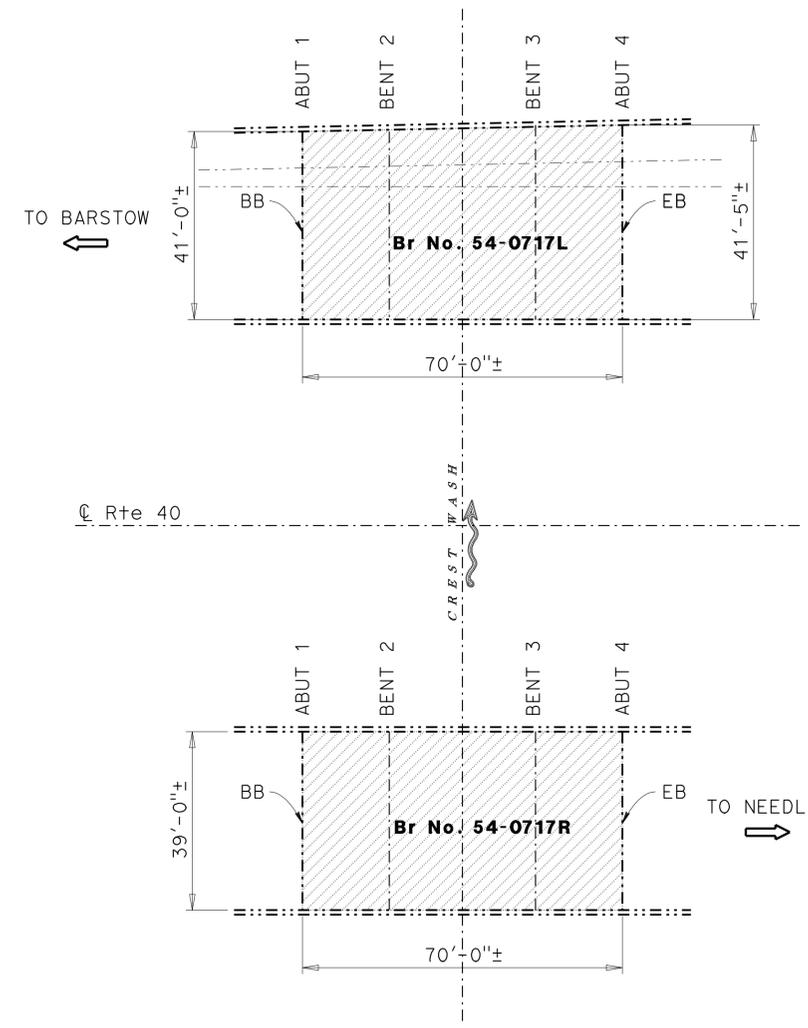
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	15	17
			09/25/12		
REGISTERED CIVIL ENGINEER			DATE		
3-4-13			PLANS APPROVAL DATE		
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LEGEND:

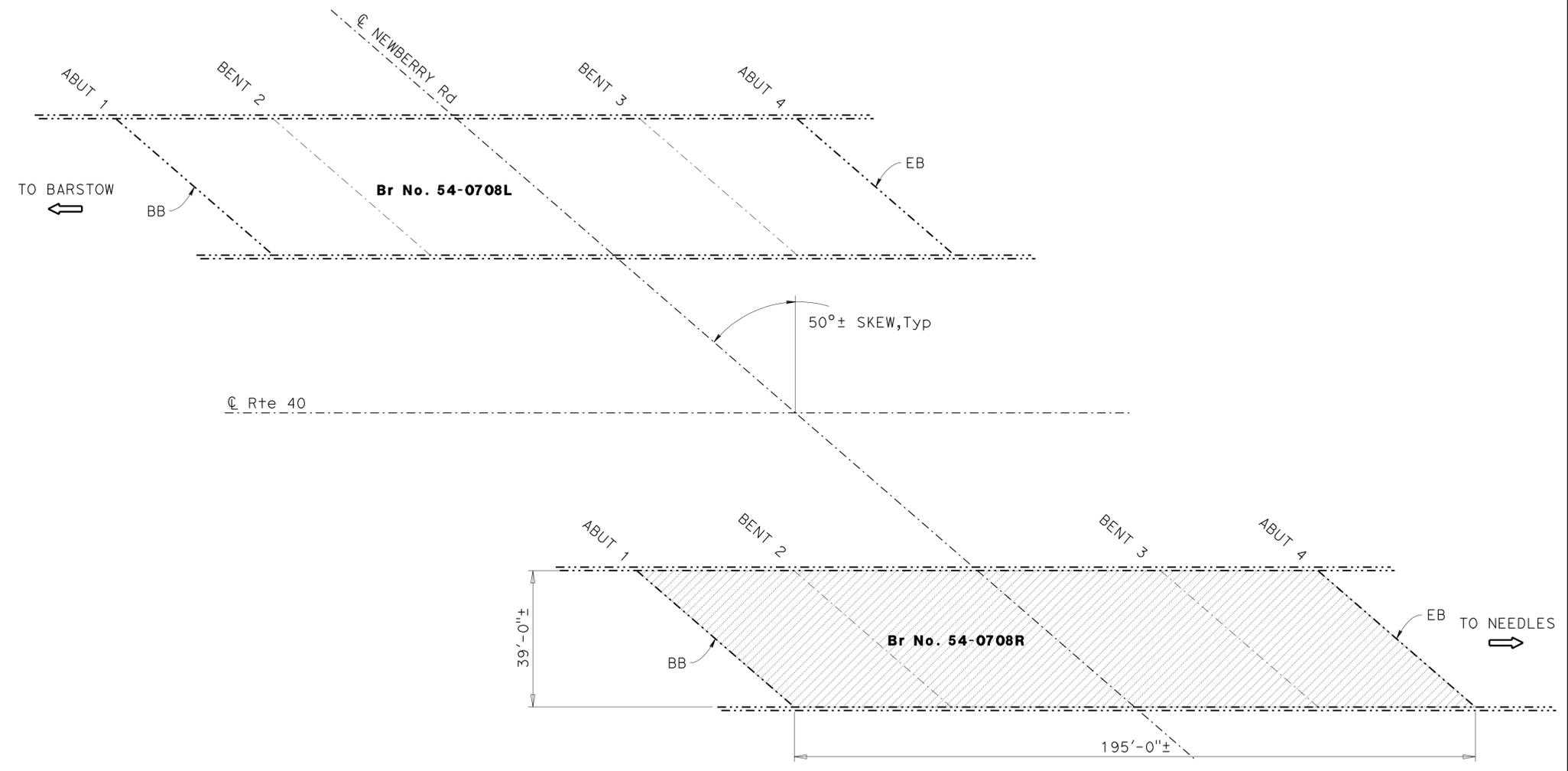
- Indicates existing.
- Indicates direction of traffic.
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Concrete shall be placed in one lift.

CREST WASH (BR. NO. 54-0717L/R)
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	14	CF
REMOVE UNSOUND CONCRETE	14	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,620	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	352	CF
PLACE POLYESTER CONCRETE OVERLAY	5,620	SQFT



CREST WASH
Br No. 54-0717L/R, Rte 40, PM R18.03
1" = 20'



NATIONAL TRAILS HIGHWAY UC (BR. NO. 54-0708R)
QUANTITIES

RAPID SETTING CONCRETE (PATCH)	19	CF
REMOVE UNSOUND CONCRETE	19	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,605	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	475	CF
PLACE POLYESTER CONCRETE OVERLAY	7,605	SQFT

NATIONAL TRAILS HIGHWAY UC
Br No. 54-0708R, Rte 40, PM R18.43
1" = 20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim	LAYOUT	BY Tom Dang
QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	SPECIFICATIONS	BY Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 40 BRIDGES
GENERAL PLAN NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	16	17

09/25/12
DATE

REGISTERED CIVIL ENGINEER

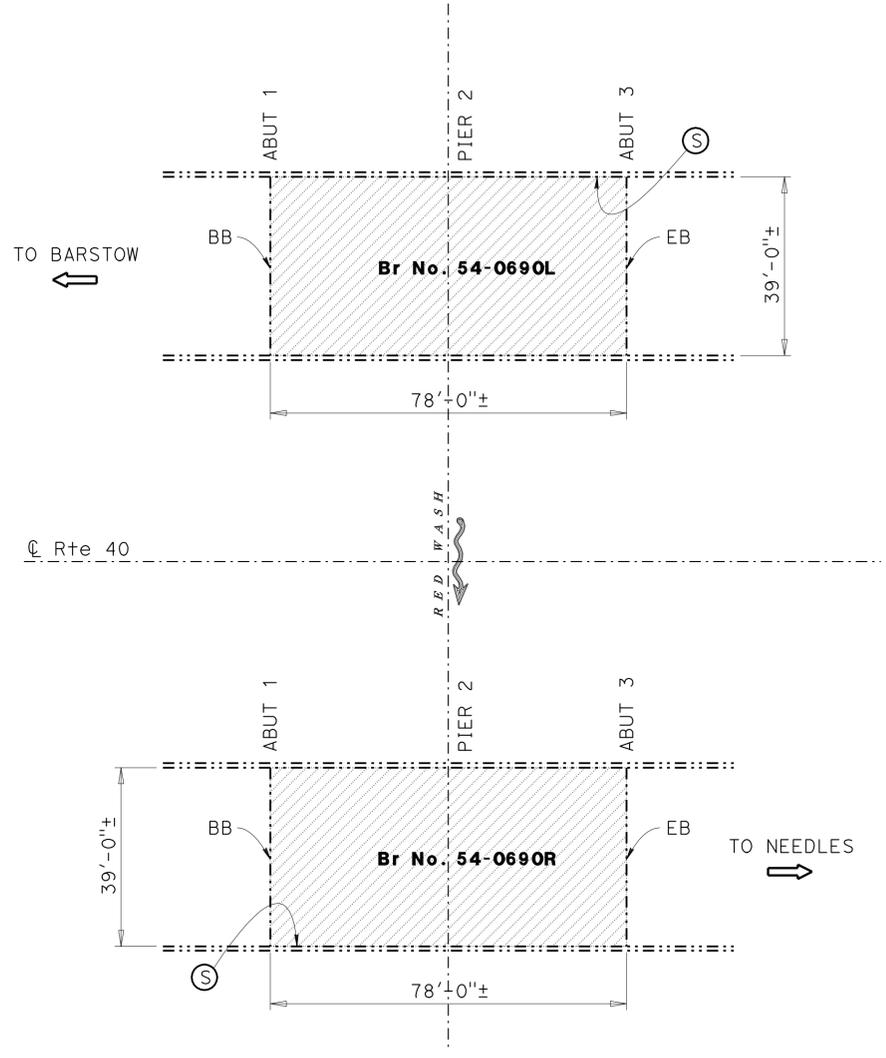
Mazin S. Ibrahim
No. C69896
Exp. 09/30/14
CIVIL

3-4-13
PLANS APPROVAL DATE

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

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete. Concrete shall be placed in one lift.
- Ⓢ Indicates location to stencil the bridge ID.



RED WASH (BR. NO. 54-0690L/R)

QUANTITIES

RAPID SETTING CONCRETE (PATCH)	16	CF
REMOVE UNSOUND CONCRETE	16	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,080	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	380	CF
PLACE POLYESTER CONCRETE OVERLAY	6,080	SQFT
PAINT BRIDGE NAME AND NUMBER	2	EA

RED WASH

Br No. 54-0690L/R, Rte 40, PM R39.0
1" = 20'



NOTE:
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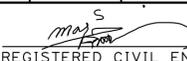
DESIGN ENGINEER TONY D. BRAKE	DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim	LAYOUT	BY Tom Dang
	QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi	SPECIFICATIONS	BY Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various	ROUTE 40 BRIDGES GENERAL PLAN NO. 6
POST MILE	Varies	
REVISION DATES	9-24-12	

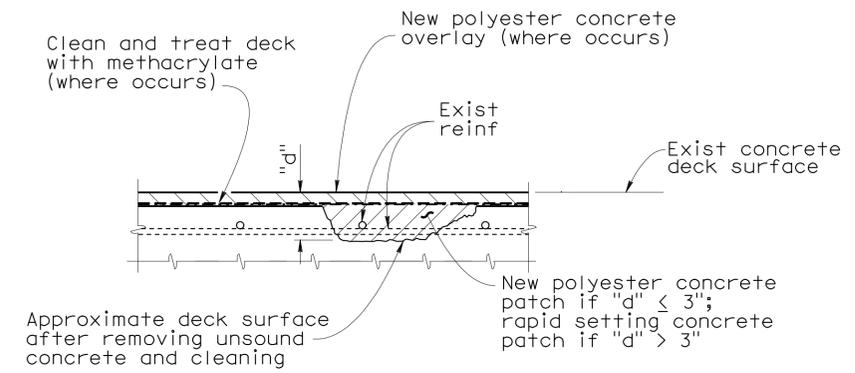
USERNAME => s1119571 DATE PLOTTED => 08-MAR-2013 TIME PLOTTED => 09:54

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R2.0/R39.0	17	17
 REGISTERED CIVIL ENGINEER			DATE	09/25/12	
PLANS APPROVAL DATE			3-4-13		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



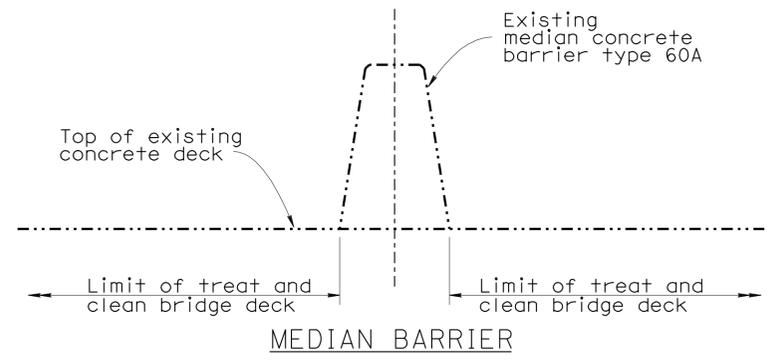
NOTES:

- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
- The saw cut depth shall not exceed 3/4 inch or the concrete cover over the top steel reinforcing bars, whichever is less.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

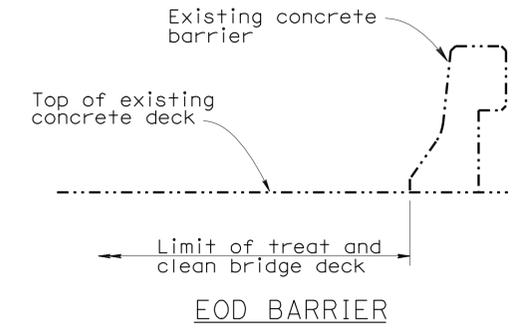


DECK REPAIR DETAIL

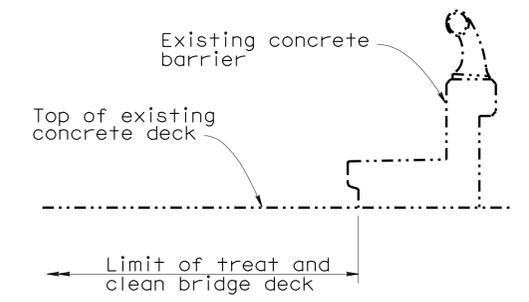
Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



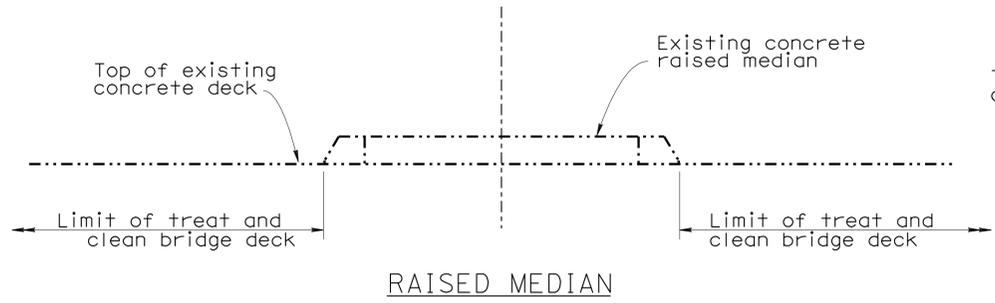
MEDIAN BARRIER



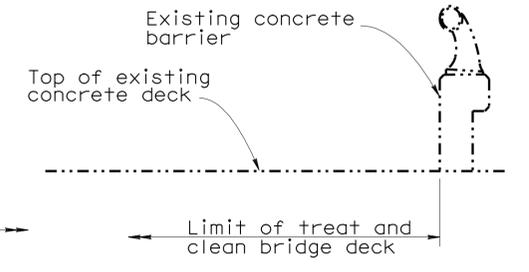
EOD BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

DESIGN	BY Mazin Ibrahim	CHECKED Mehran Sajjadi
DETAILS	BY Tom Dang	CHECKED Mazin Ibrahim
QUANTITIES	BY Mazin Ibrahim	CHECKED Mehran Sajjadi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 40 BRIDGES
MISCELLANEOUS DETAILS