

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LOCATIONS OF CONSTRUCTION
3	CONSTRUCTION AREA SIGNS
4-9	TRAFFIC HANDLING DETAILS
10	PAVEMENT DELINEATION QUANTITIES
11-15	REVISED STANDARD PLANS

STRUCTURES

16-27	ROUTE 5 BRIDGES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

**BEGIN CONSTRUCTION
PM 18.4**

Begin Work
PM 17.9

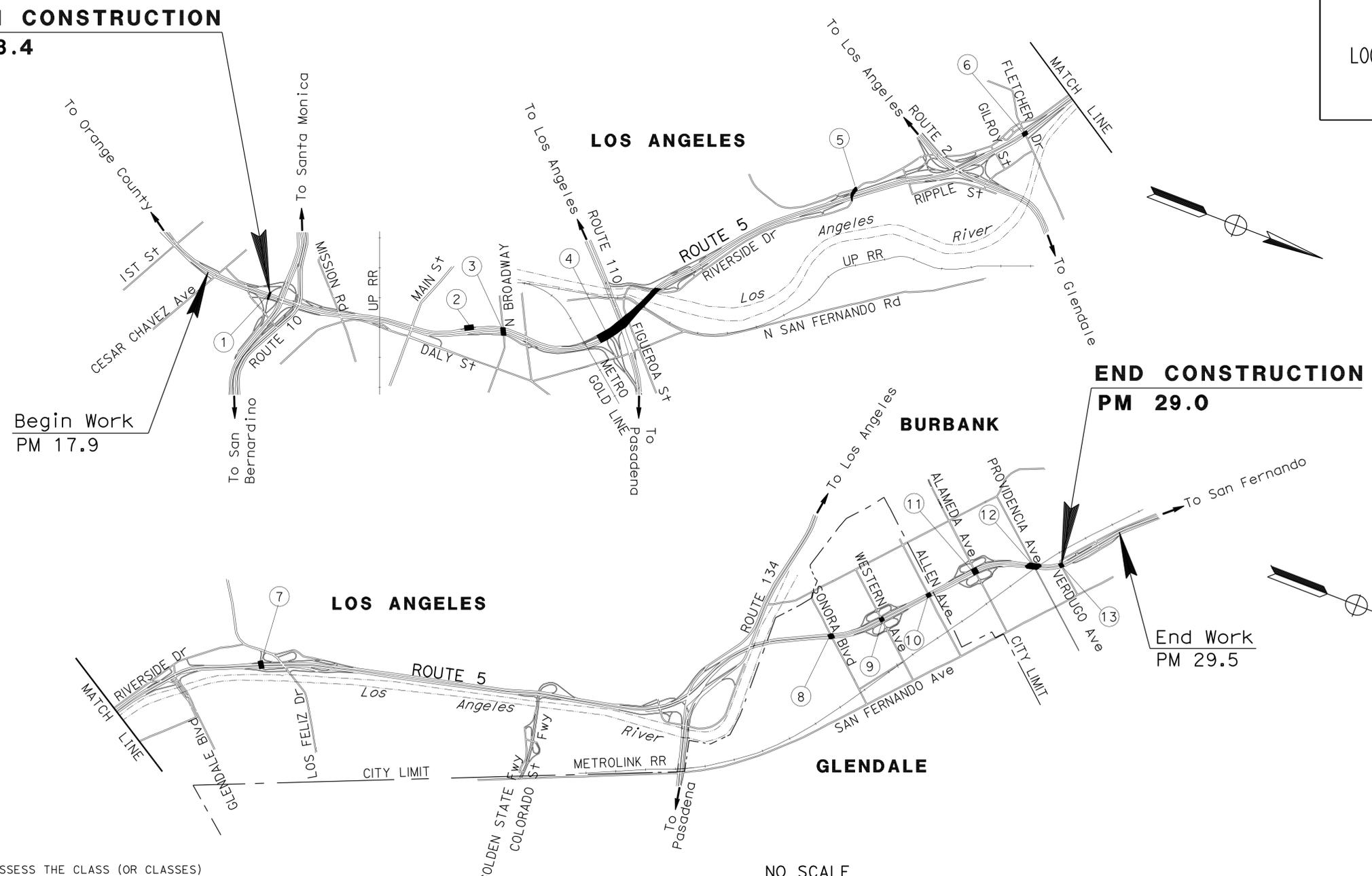
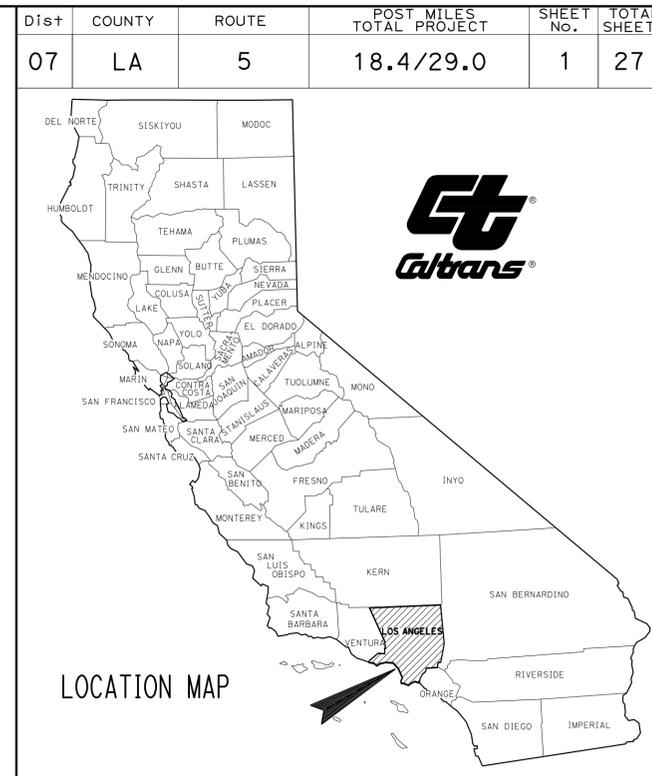
**END CONSTRUCTION
PM 29.0**

End Work
PM 29.5

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

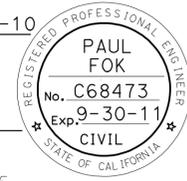
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES COUNTY
IN LOS ANGELES, GLENDALE AND BURBANK
AT VARIOUS LOCATIONS FROM ROUTE 5/10 SEPARATION
TO VERDUGO AVENUE UNDERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER	CHRISTIAN SAM
DESIGN ENGINEER	PAUL W FOK

 11-3-10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
November 29, 2010
 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."

NO SCALE

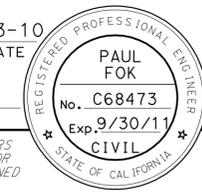
DATE PLOTTED => 16-DEC-2010 TIME PLOTTED => 1:54:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	18.4/29.0	2	27

 11-3-10
 REGISTERED CIVIL ENGINEER DATE

11-29-10
 PLANS APPROVAL DATE

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



LOCATIONS OF CONSTRUCTION			
LOCATION	PM	NAME OF BRIDGE	BRIDGE NUMBER
①	18.38	S5-E10 CONNECTOR UC	53-1316
②	19.50	NORTH BROADWAY OFF-RAMP UC	53-1411K
③	19.73	NORTH BROADWAY OC	53-1373
④	20.31	ELYSIAN VIADUCT	53-1424
⑤	21.94	RIVERSIDE DRIVE UC	53-0163
⑥	22.97	FLETCHER DRIVE UC	53-1084
⑦	24.21	LOS FELIZ BOULEVARD ON-RAMP OC	53-1096S
⑧	27.54	SONORA AVENUE UC	53-1077L/R
⑨	27.84	WESTERN AVENUE UC	53-1079L/R/S
⑩	28.14	ALLEN AVENUE UC	53-1081
⑪	28.43	ALAMEDA AVENUE UC	53-1082L/R/K
⑫	28.70	PROVIDENCIA OH	53-1085L/R
⑬	28.92	VERDUGO AVENUE UC	53-1086

LOCATIONS OF CONSTRUCTION

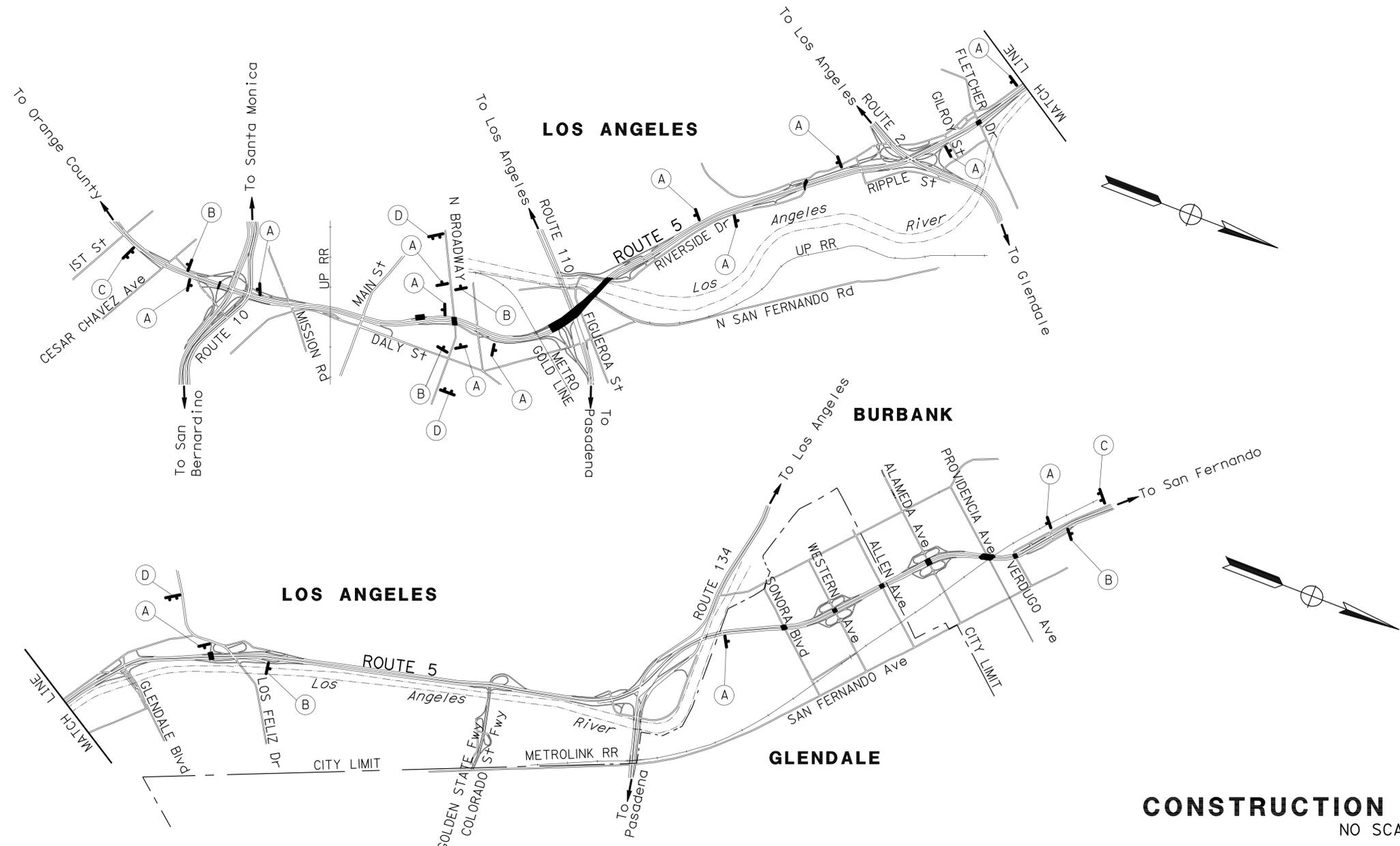
LC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: MONIR IBRAHIM
 CALCULATED/DESIGNED BY: PAUL W FOK
 CHECKED BY: SHAFIOUL ISLAM
 REVISED BY: DATE REVISED:

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. C40(CA) SIGNS SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF W20-1 SIGNS OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN	SIGN CODE	SIGN MESSAGE	PANEL SIZE (INCH X INCH)	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
(A)	W20-1	ROAD WORK AHEAD	48 x 48	1 - 6" x 6"	14
(B)	G20-2	END ROAD WORK	48 x 24	1 - 4" x 6"	5
(C)	C40 (CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144 x 60	2 - 6" x 8"	2
(D)	C40 (CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108 x 42	2 - 6" x 8"	2
TOTAL					23



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

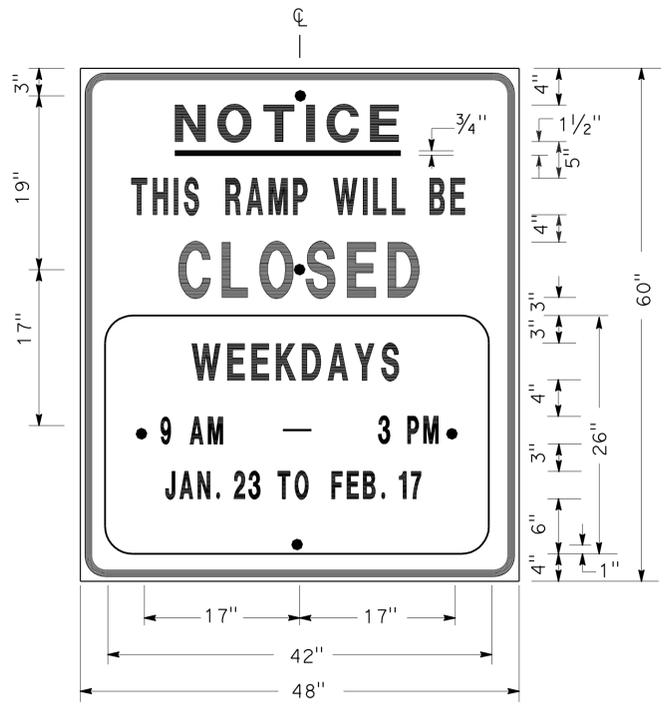
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: MONIR IBRAHIM
 CALCULATED/DESIGNED BY: PAUL W FOK
 CHECKED BY: SHAFIQUL ISLAM
 REVISED BY: PAUL W FOK
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	18.4/29.0	4	27

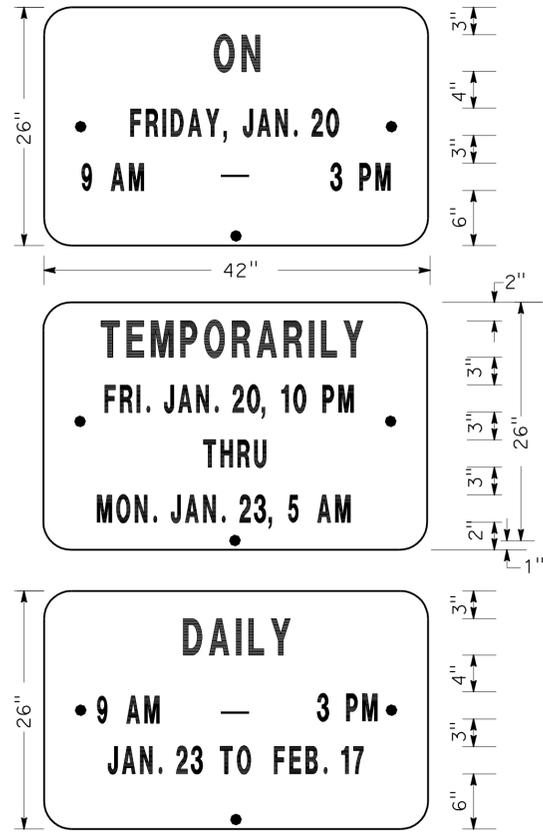
REGISTERED CIVIL ENGINEER DATE: 8-17-10
 11-29-10
 PLANS APPROVAL DATE

MARTIN OREGEL
 No. C56816
 Exp. 6-30-11
 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.

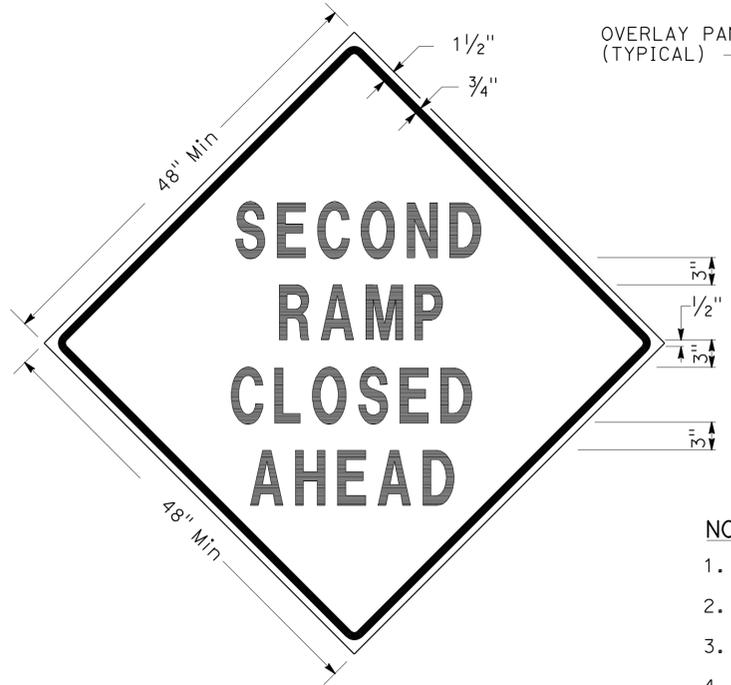


SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

SPECIAL SIGN FOR EXIT RAMP CLOSURES

- NOTES: (SIGNS SP-3 & SP-5)
- LETTERS - 6" SERIES D.
 - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.



SIGN SP-5



SIGN SP-4

- NOTES: (SIGN SP-4)
- LETTERS - 6" SERIES C.
 - LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

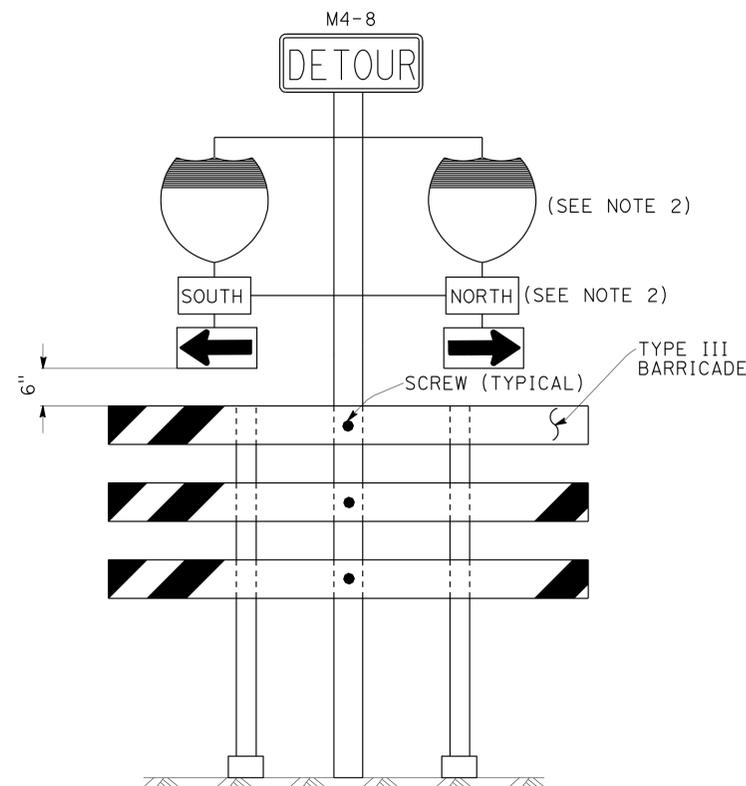
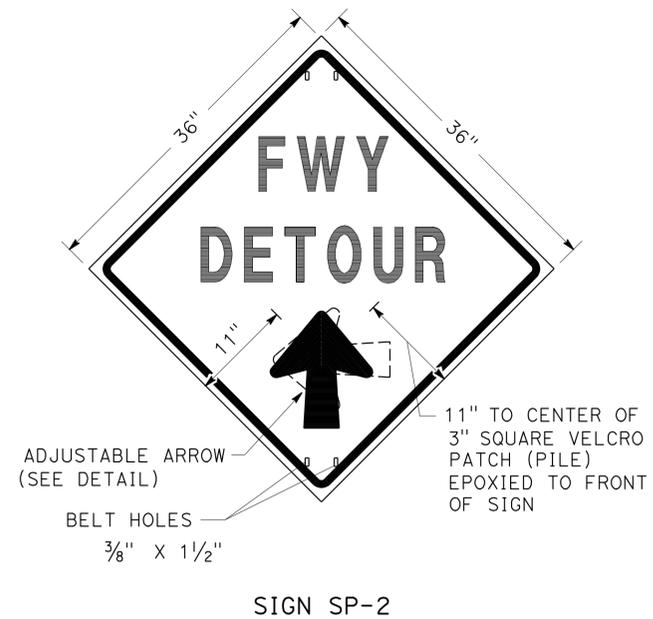
NO SCALE

THD-1

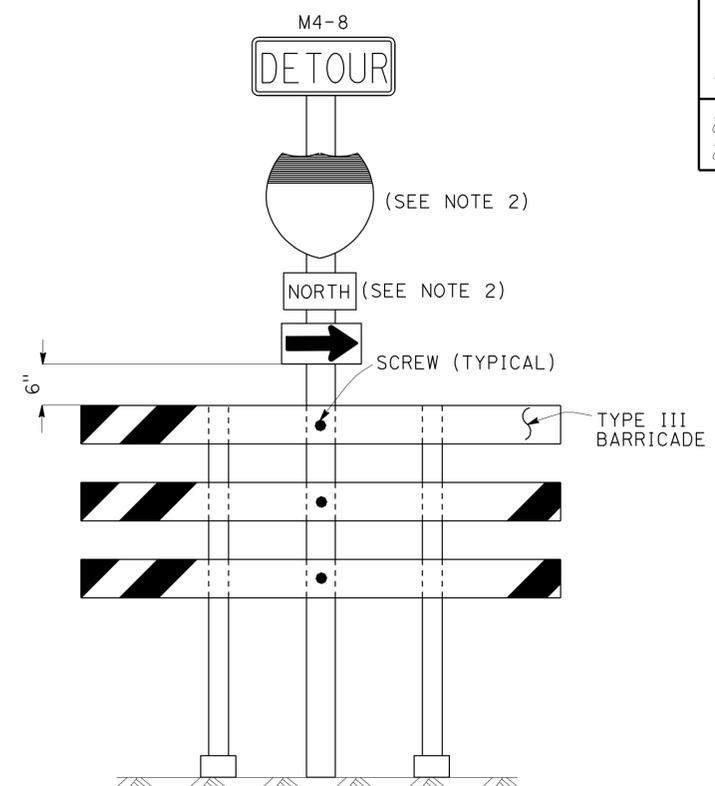
- NOTES: (SIGN SP-1)
- SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
 - BOLT HOLES SHALL BE 3/8" DIAMETER.
 - BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
 - SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SIZE	BORDER	MARGIN	LETTER SIZE					CORNER RADIUS
	WIDTH	WIDTH	LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

* CONDENSED SPACING IF NECESSARY



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

1. LETTERS -6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

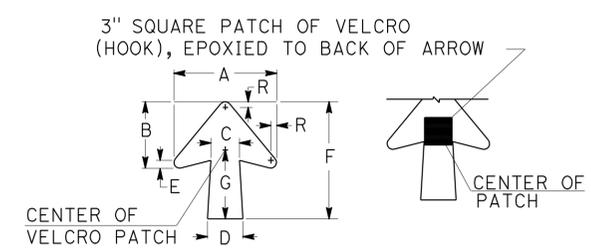
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

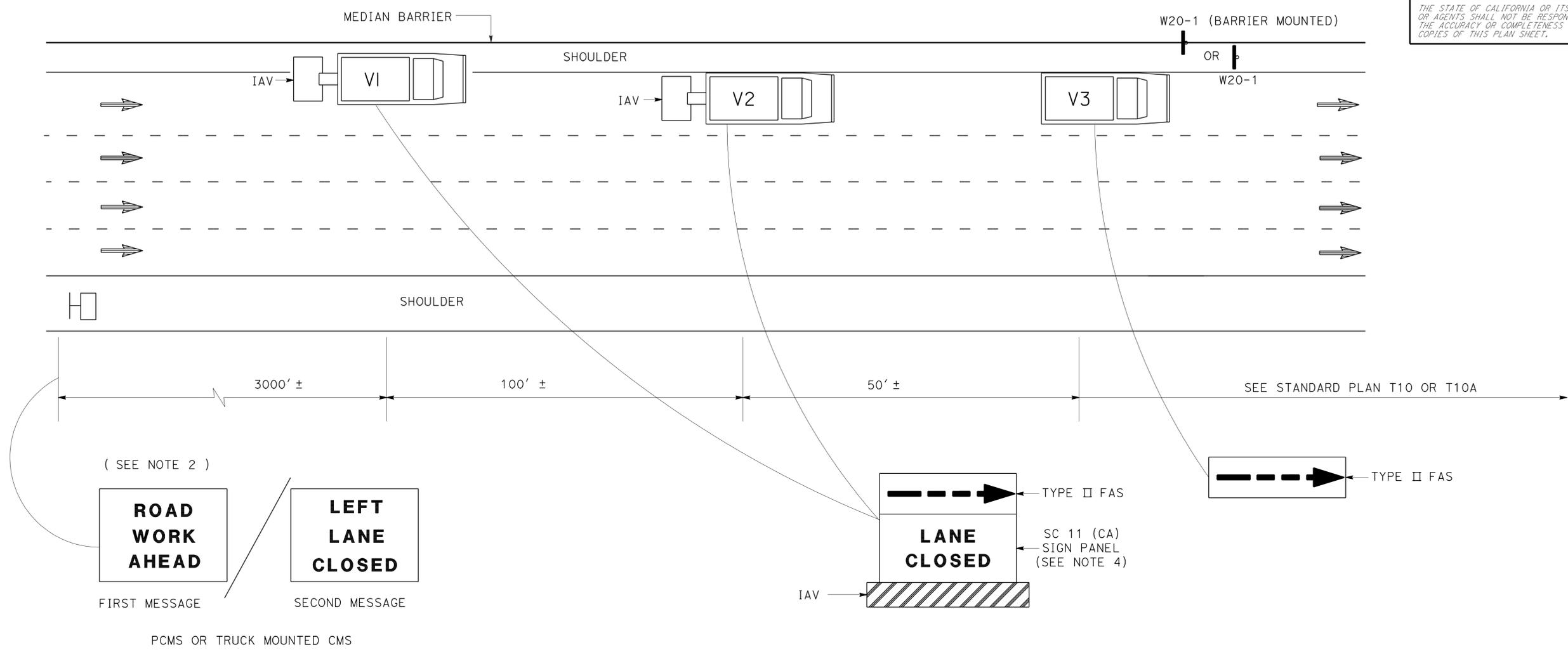
ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS
AND MISCELLANEOUS DETAILS
SHEET 2 OF 2
 NO SCALE

THD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DTIC
 FUNCTIONAL SUPERVISOR MARTIN OREGEL
 CHECKED BY
 CALCULATED/DESIGNED BY
 REVISIONS BY JC DATE 7/10
 REVISED BY ALBERT K YU JOCELYN C CHIANG
 DESIGNED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	18.4/29.0	6	27
 REGISTERED CIVIL ENGINEER DATE 8-17-10					
11-29-10 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>					



NOTES:

1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500' SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.

LEGEND

- V1, V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
-  DIRECTION OF TRAVEL
-  CONSTRUCTION AREA SIGN

ABBREVIATIONS

- FAS FLASHING ARROW SIGN
- IAV IMPACT ATTENUATOR VEHICLE
- CMS CHANGEABLE MESSAGE SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- (CA) CALIFORNIA CODE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR MEDIAN SHOULDERS LESS THAN 8 FEET**
NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 FUNCTIONAL SUPERVISOR
 MARTIN OREGEL
 REVISIONS: JC 7/10
 REVISIONS: ALBERT K YU, JOCELYN C CHIANG
 CALCULATED/DESIGNED BY: JOCELYN C CHIANG
 CHECKED BY:

NOTES:

- WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.
- EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
- CHANGE PCMS MESSAGE AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

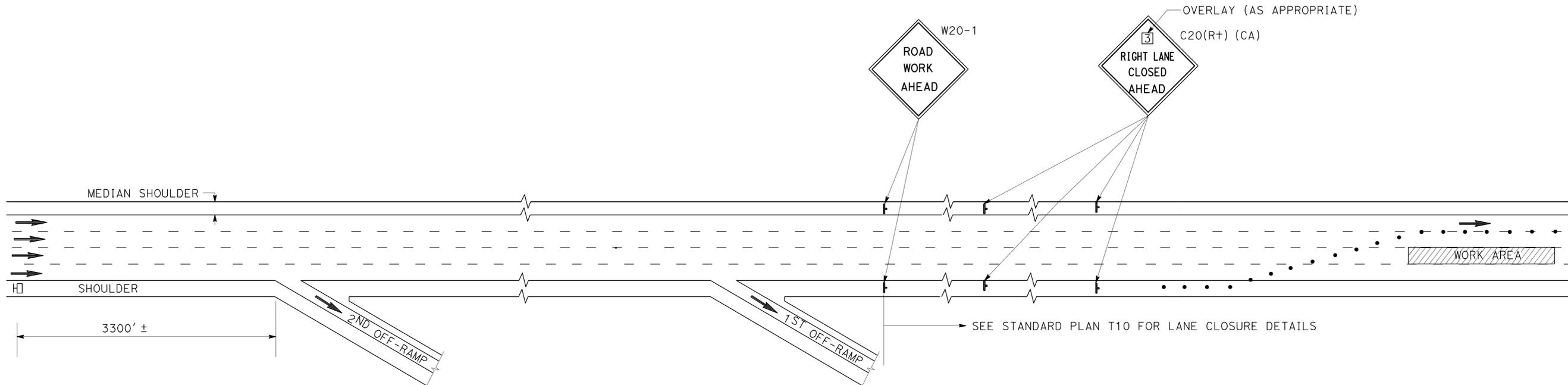
ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 (CA) CALIFORNIA CODE

LEGEND

- CONE
- ⊥ PORTABLE SIGN
- ➔ DIRECTION OF TRAVEL
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- (CA) CALIFORNIA CODE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans®
 FUNCTIONAL SUPERVISOR
 MARTIN OREGEL
 CALCULATED/DESIGNED BY
 ALBERT K YU
 CHECKED BY
 JOCELYN C CHIANG
 REVISED BY
 JC
 DATE REVISED
 7/10



FIRST FLASH MESSAGE	X (NO OF LANES)RIGHT/LEFT	← 1ST LINE (TYPICAL)
	LANES	← 2ND LINE (TYPICAL)
	CLOSED	← 3RD LINE (TYPICAL)
SECOND FLASH MESSAGE	A ST	← LIMIT OF CLOSURE (TYPICAL)
	TO B DR	← LIMIT OF CLOSURE (TYPICAL)

WORDING FOR PORTABLE CHANGEABLE MESSAGE SIGN

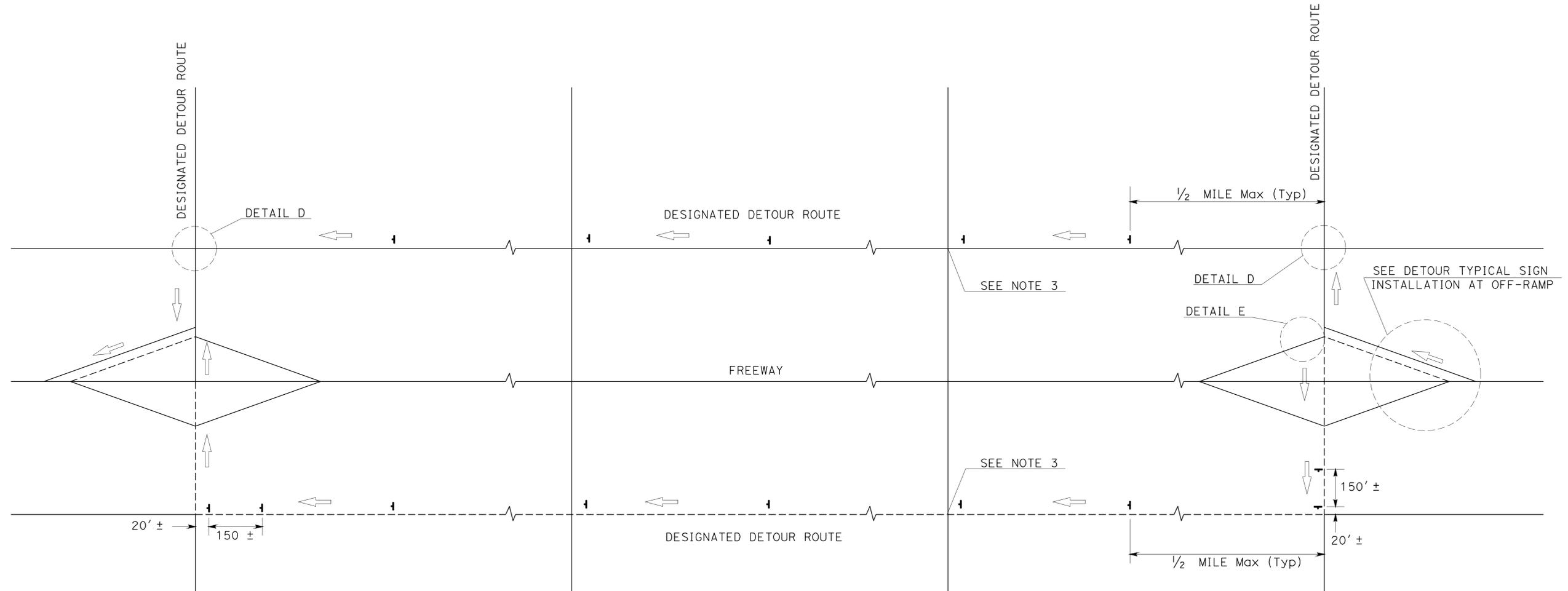
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR METHACRYLATE TREATMENT**

NO SCALE

THD-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	18.4/29.0	8	27
			Martin Oregel 8-17-10 REGISTERED CIVIL ENGINEER DATE		
			11-29-10 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>					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
DTM	MARTIN OREGEL	ALBERT K YU JOCELYN C CHIANG	JC	7/10



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

LEGEND

- TEMPORARY SIGN (SP-2)
- AND/OR DESIGNATED DETOUR ROUTE
- DIRECTION OF TRAVEL

NOTES:

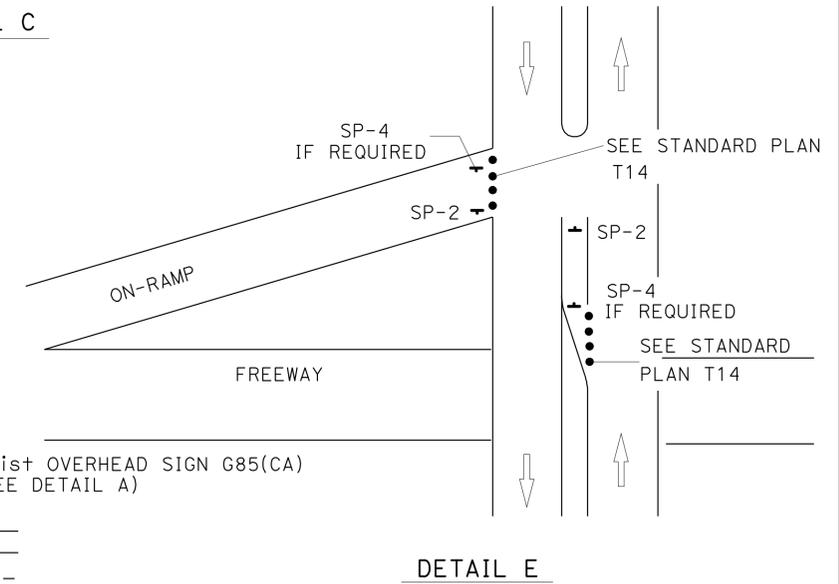
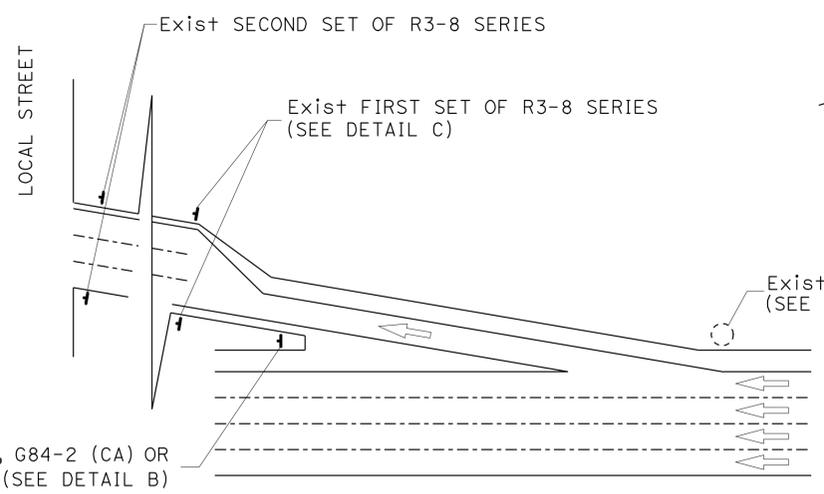
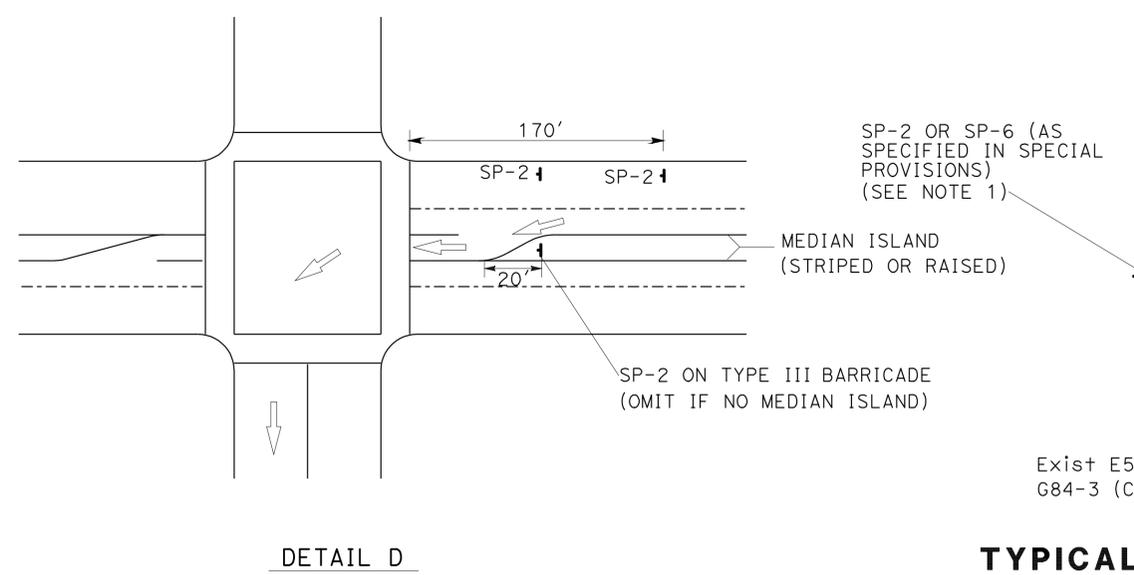
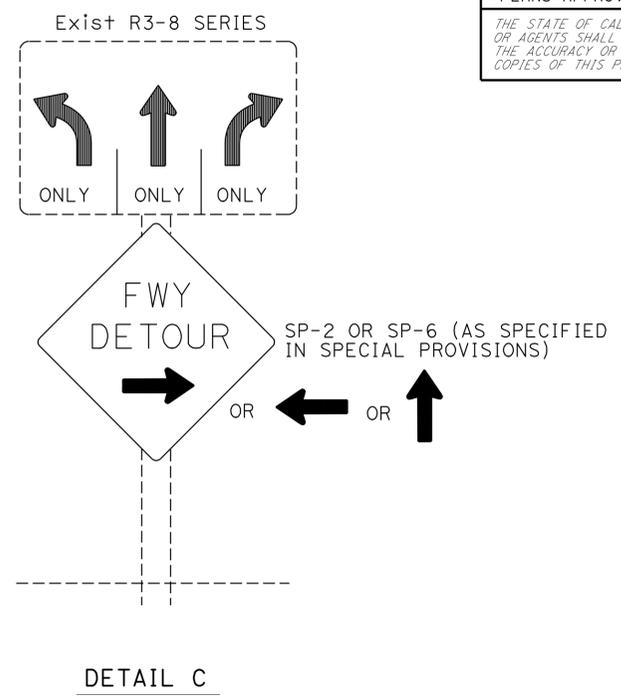
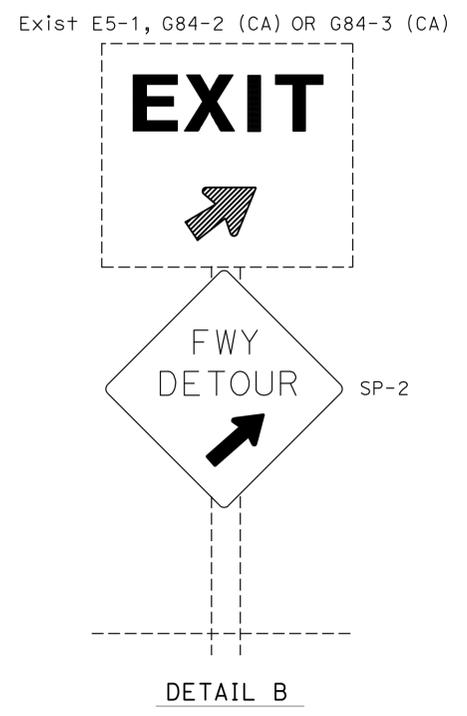
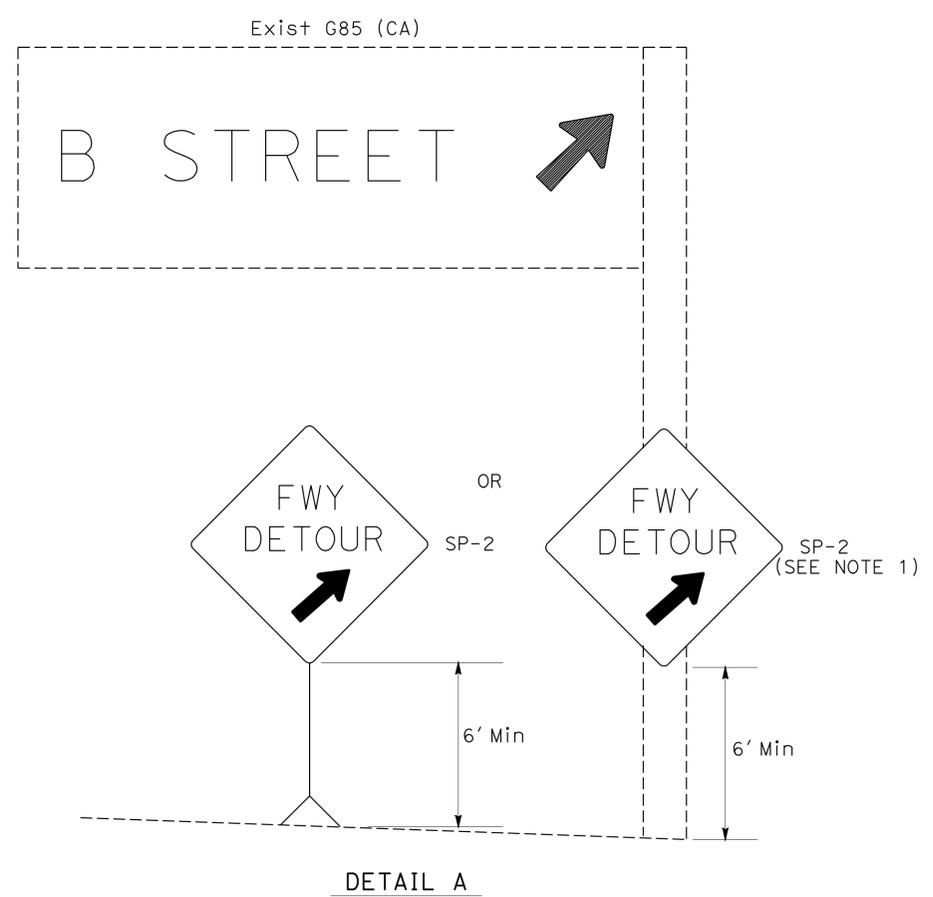
1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR 1/2 MILE MAXIMUM APART.

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR DETOUR SIGN INSTALLATION
ALONG DESIGNATED DETOUR ROUTE
SHEET 1 OF 2
NO SCALE**

THD-5



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	18.4/29.0	9	27
			8-17-10 REGISTERED CIVIL ENGINEER DATE 11-29-10 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>					



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES:
 1. TEMPORARY SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POSTS, OR SIGN POSTS.

ABBREVIATIONS
 (CA) CALIFORNIA CODE

LEGENDS
 • TRAFFIC CONE
 † TEMPORARY SIGN
 → DIRECTION OF TRAVEL
 ○ EXISTING OVERHEAD SIGN

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 2 OF 2
 NO SCALE**

THD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT
 FUNCTIONAL SUPERVISOR: MARTIN OREGEL
 REVISIONS: JC 7/10, ALBERT K YU, JOCELYN C CHIANG
 USERNAME => s116260
 DGN FILE => 74Y220me006.dgn



UNIT 1887

PROJECT NUMBER & PHASE

07000202101

DATE PLOTTED => 16-DEC-2010
 TIME PLOTTED => 13:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	18.4/29.0	10	27

11-3-10
 REGISTERED CIVIL ENGINEER DATE
 11-29-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 PAUL FOK
 No. C68473
 Exp. 9/30/11
 CIVIL
 STATE OF CALIFORNIA

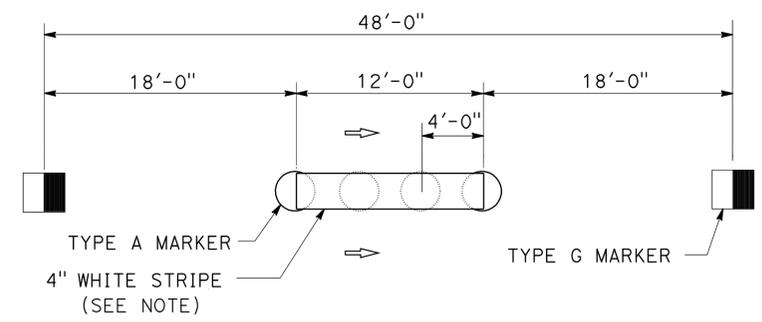
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NOTES:

APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE AND TYPES OF TRAFFIC STRIPES AND PAVEMENT MARKERS.

LEGEND:

➔ DIRECTION OF TRAVEL



DETAIL 13 (MODIFIED)

PAVEMENT DELINEATION QUANTITIES

Loc	PM	NAME OF BRIDGE	BRIDGE No.	LF	LF	EA	SQFT	THERMOPLASTIC TRAFFIC STRIPE										THERMOPLASTIC PAVEMENT MARKING			PAVEMENT MARKER						
								4" WHITE STRIPE BROKEN (17-7)		4" WHITE STRIPE BROKEN (36-12)		4" YELLOW STRIPE		4" WHITE STRIPE		8" WHITE STRIPE		6" WHITE STRIPE		THERMOPLASTIC PAVEMENT MARKING (DIAGONALS)	WORDS AND SYMBOLS	ARROWS	RETROREFLECTIVE			NON-REFLECTIVE	
								DETAIL 8	DETAIL 9	DETAIL 12	DETAIL 13 (MODIFIED)	DETAIL 22	DETAIL 25	DETAIL 27A	DETAIL 27B	DETAIL 36	DETAIL 36A	DETAIL 38A	DETAIL 39A				TYPE D	TYPE G	TYPE H	TYPE A	
②	19.50	NORTH BROADWAY OFF-RAMP UC	53-1411K	274	343	31				274			274	274											24	7	
③	19.73	NORTH BROADWAY OC	53-1373	319	1914	16	30				319					319	638			30	16						
④	20.31	ELSIAN VIADUCT	53-1424	4960	11020	1647	20	780		13530		4960	5310	700	350			20						405	113	1129	
⑤	21.94	RIVERSIDE DRIVE UC	53-0163	407	1191	123	14	136		813		407	407	271				14						45	10	68	
⑦	24.21	LOS FELIZ BLVD ON-RAMP OC	53-1096S	22	65	2	22					22	22						22						2		
⑧	27.54	SONORA AVENUE UC	53-1077R	210	603	85				734		210	210			105								17	6	62	
⑨	27.84	WESTERN AVENUE UC	53-1079L/R/S	210	368	74				630		210	210											15	6	53	
⑩	28.14	ALLEN AVENUE UC	53-1081	130	265	59		130		390		130	130											22	4	53	
⑪	28.43	ALAMEDA AVENUE UC	53-1082L/R/K	315	503	76		105		630		315	315											15	8	33	
⑬	28.92	VERDUGO AVENUE UC	53-1086	176	330	71				616		176	176											14	5	53	
SUB TOTAL				7022	16601	2184	86	105	1046	274	17343	319	6703	7053	971	350	445	638	34	22	30	16	557	161	1450		
TOTAL (THIS SHEET)				7022	16601	2184	86	1151	17617		14074		1766	638			86						734		1450		

PAVEMENT DELINEATION QUANTITIES
NO SCALE
PDQ-1

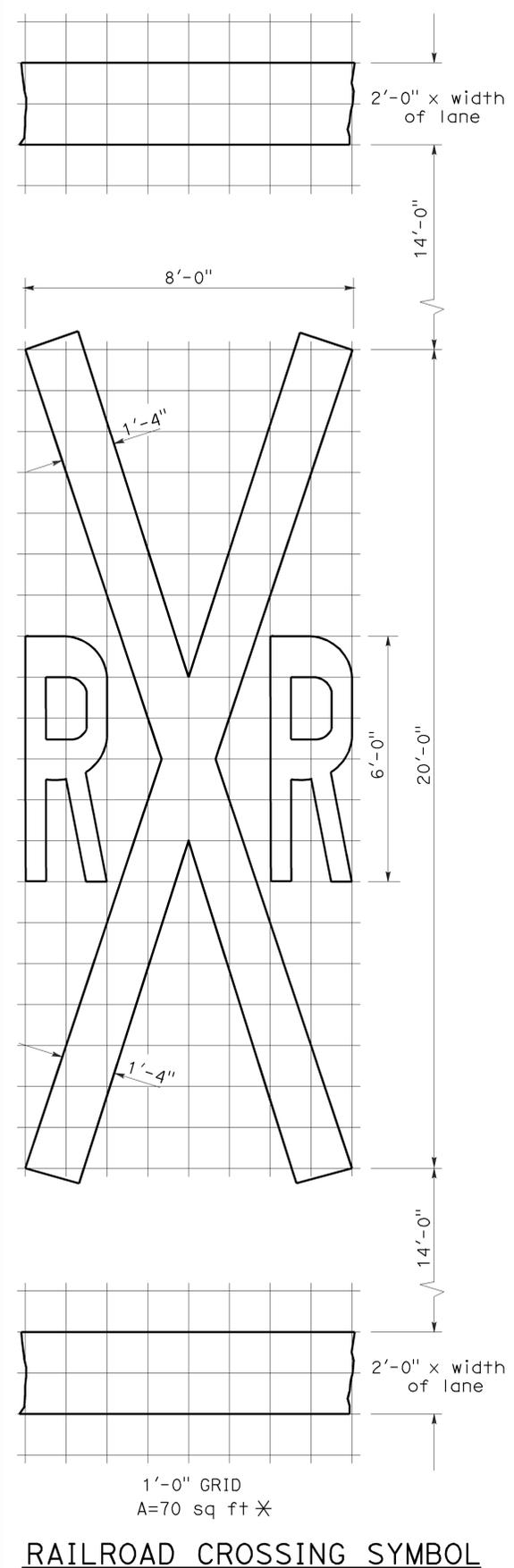
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: MONIR IBRAHIM
 CALCULATED/DESIGNED BY: PAUL W FOK
 CHECKED BY: SHAFIQUL ISLAM
 REVISIONS: 11-29-10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	18.4/29.0	11	27

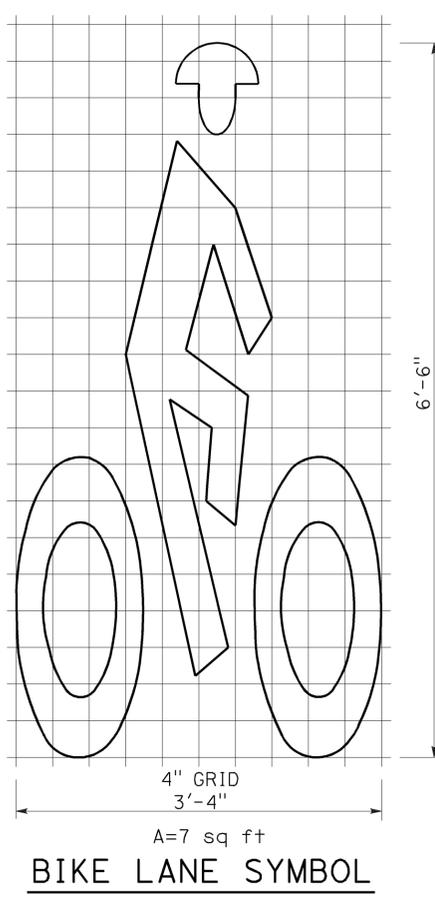
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

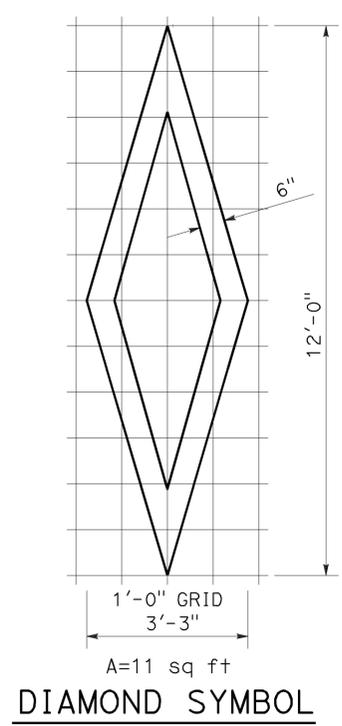
To accompany plans dated 11-29-10



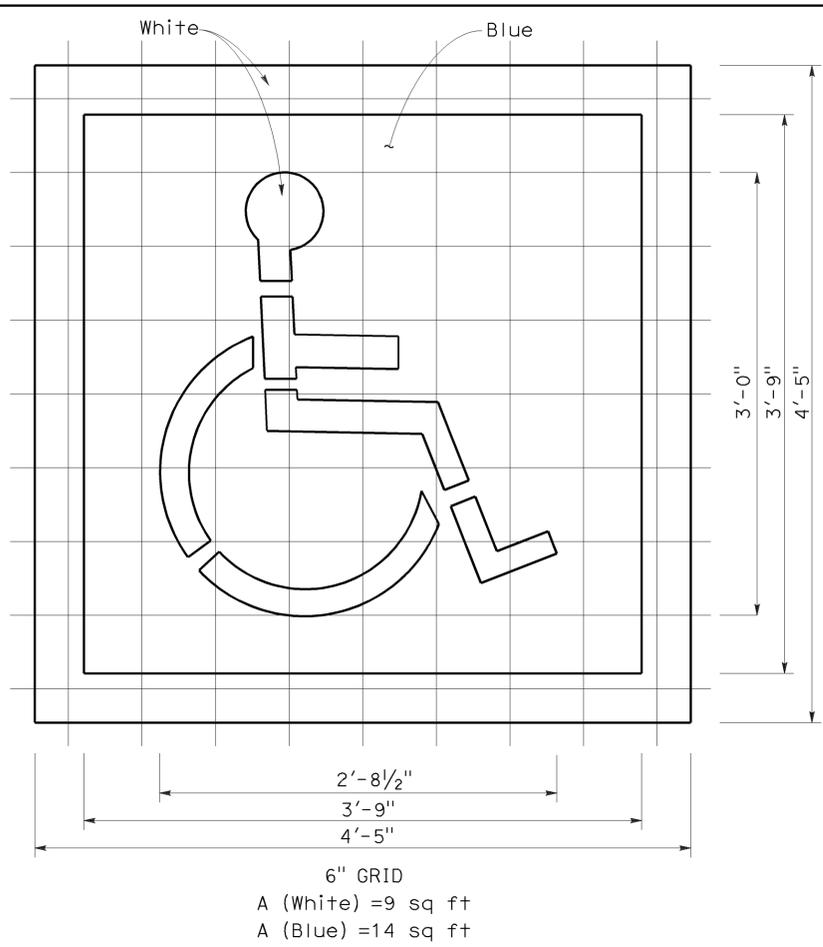
RAILROAD CROSSING SYMBOL
 *70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



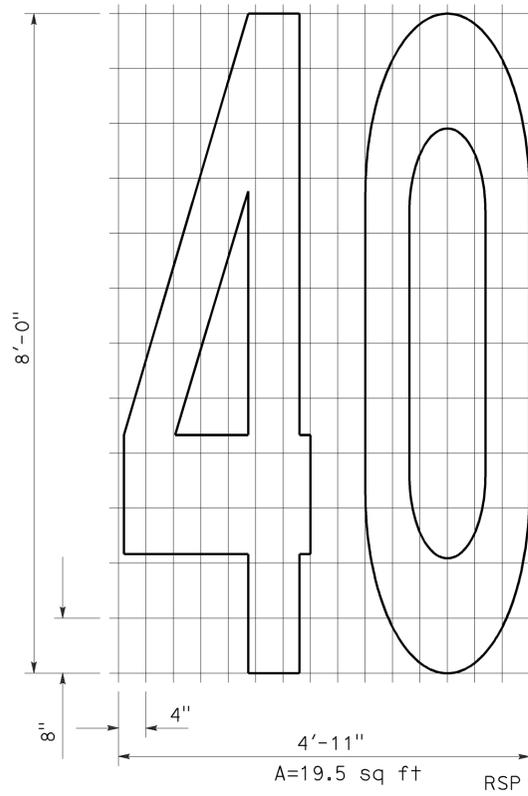
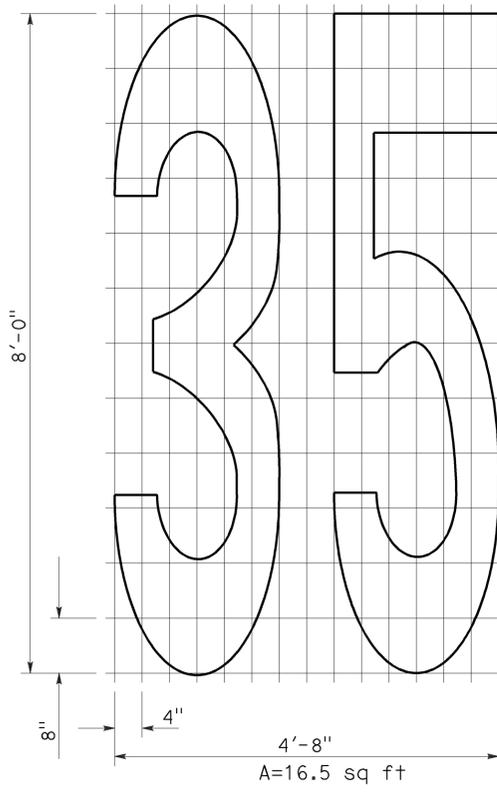
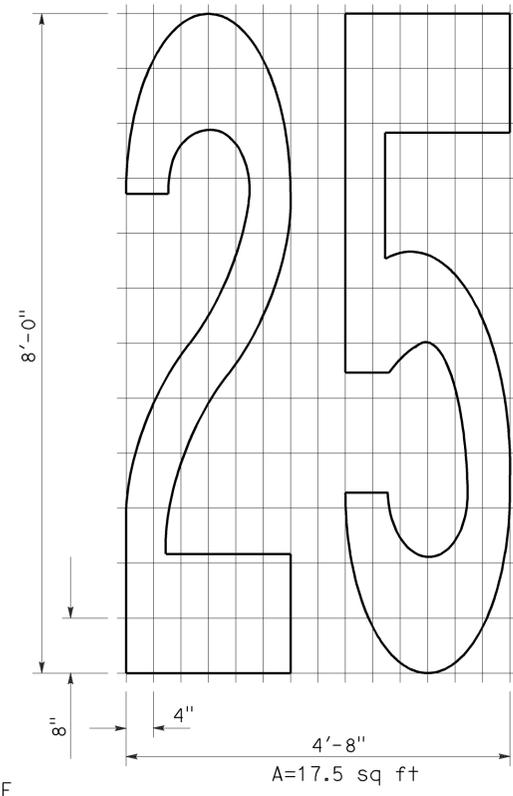
BIKE LANE SYMBOL



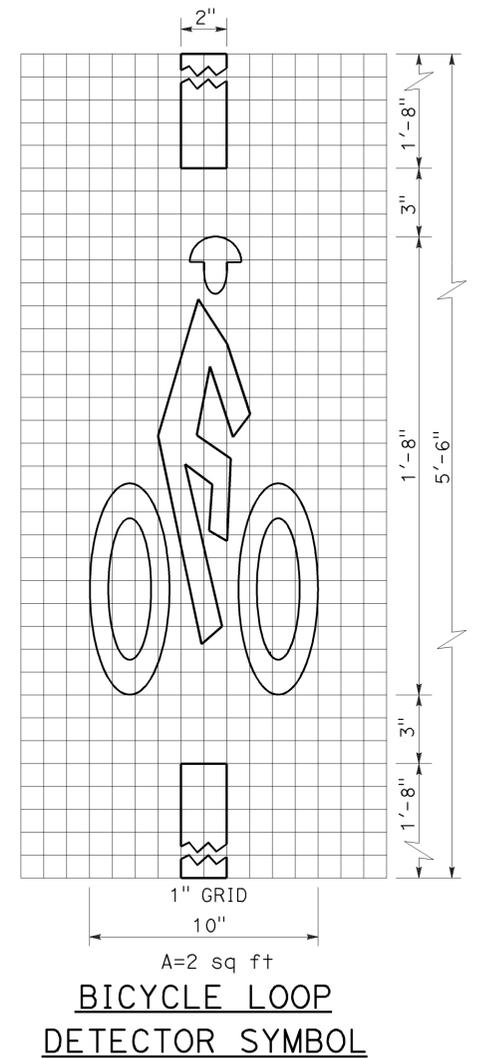
DIAMOND SYMBOL



INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



NUMERALS



BICYCLE LOOP DETECTOR SYMBOL

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A24C

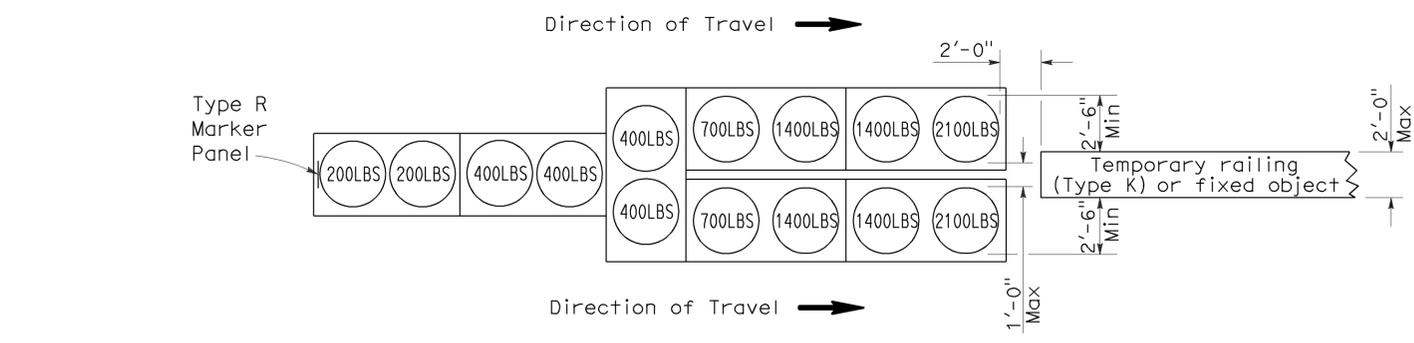
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	18.4/29.0	12	27

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

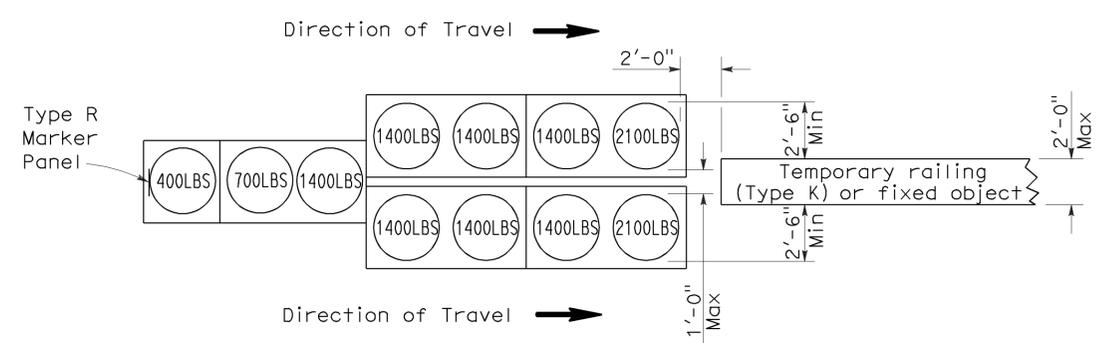
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-29-10



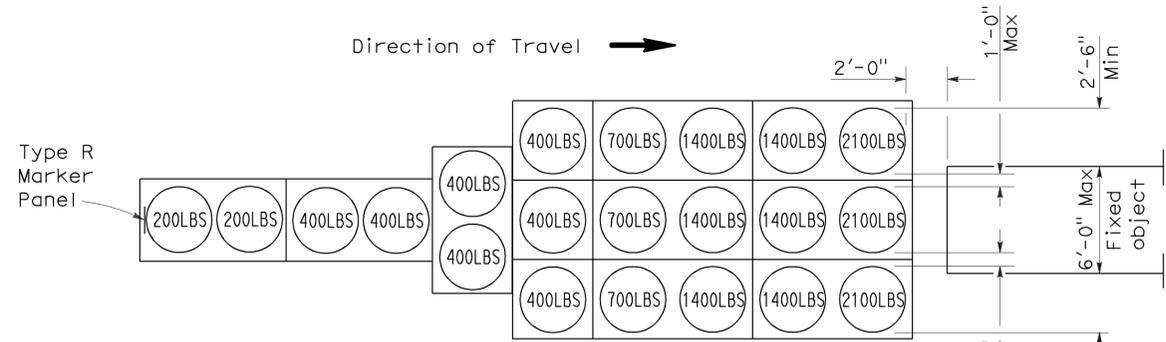
ARRAY 'TU14'

Approach speed 45 mph or more



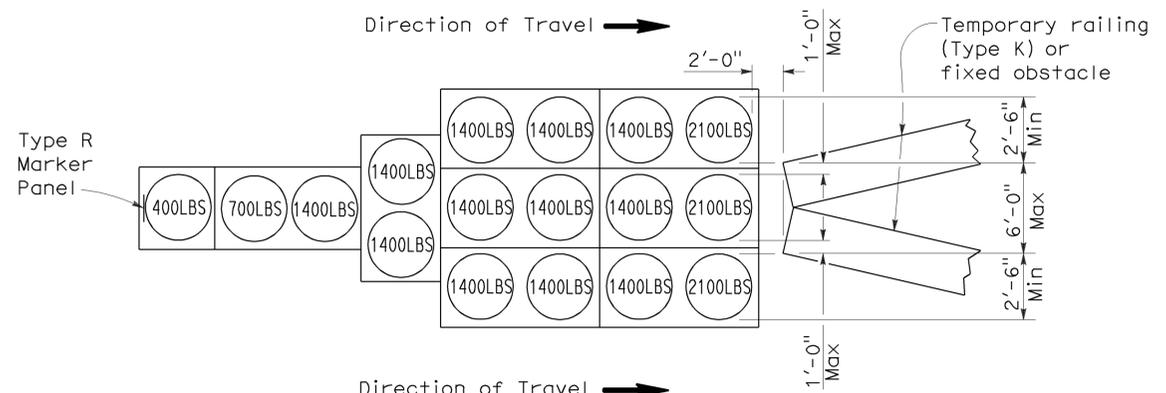
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

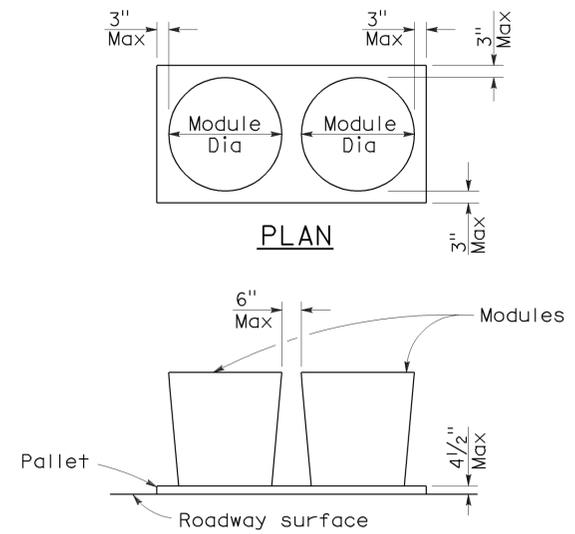


ARRAY 'TU17'

Approach speed less than 45 mph

NOTES:

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



CRASH CUSHION PALLET DETAIL
See Note 7

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

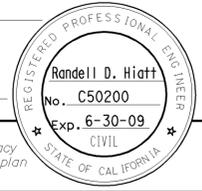
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	18.4/29.0	13	27

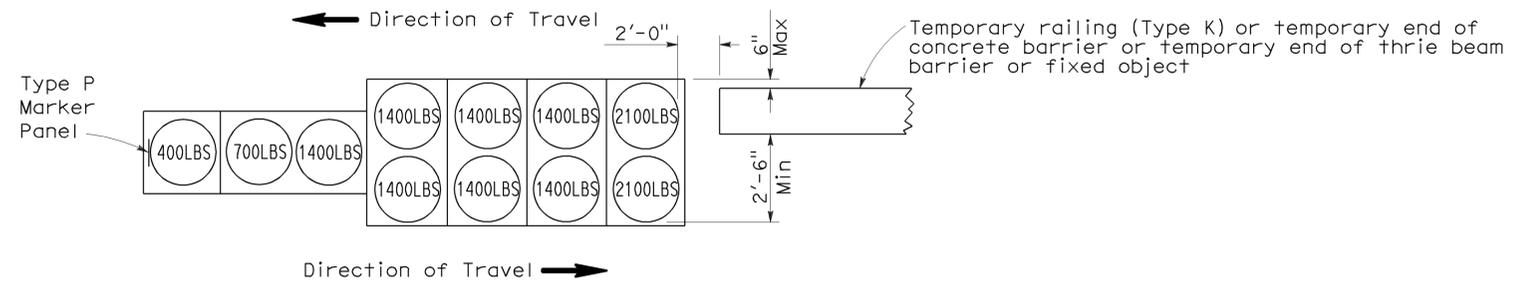
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

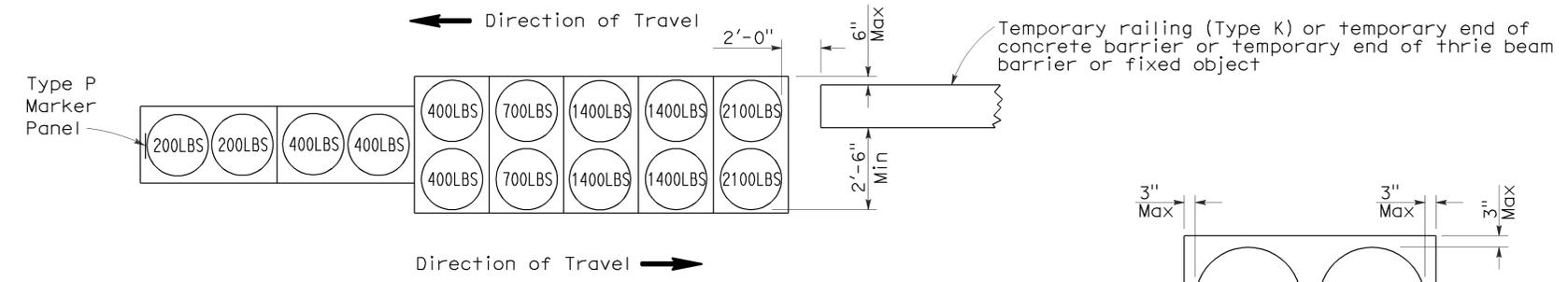
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



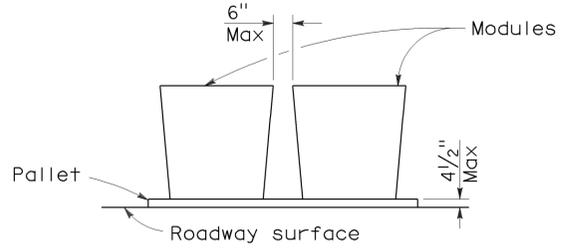
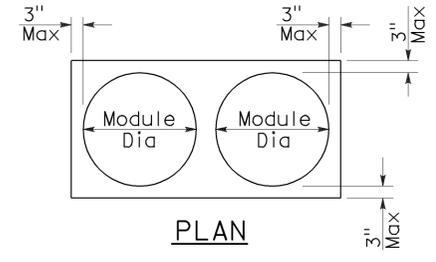
To accompany plans dated 11-29-10



ARRAY 'TB11'
Approach speed less than 45 mph



ARRAY 'TB14'
Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

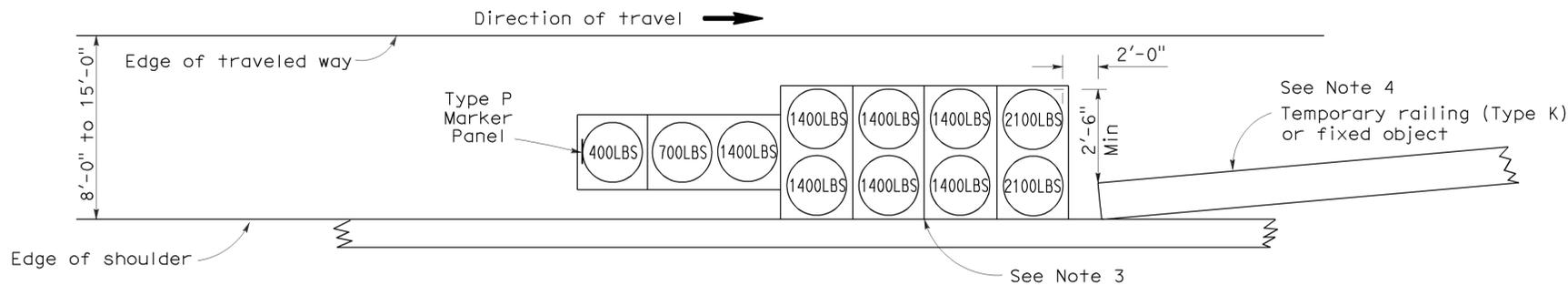
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	18.4/29.0	14	27

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

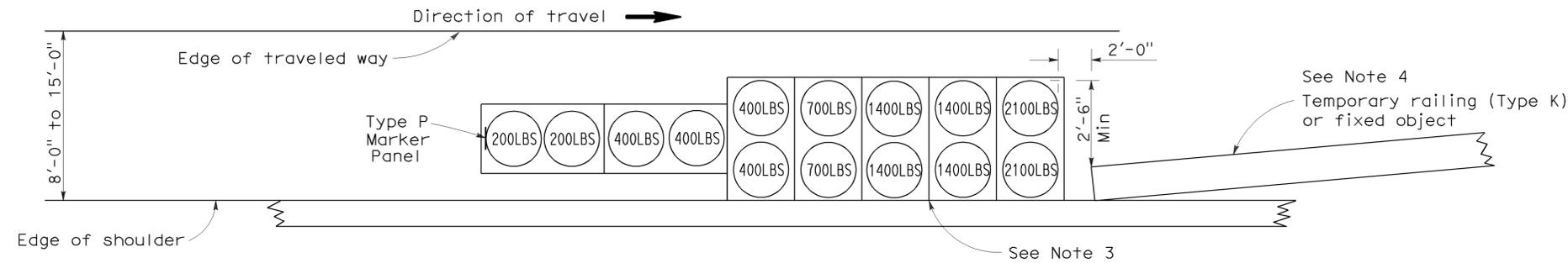
June 6, 2008
PLANS APPROVAL DATE

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

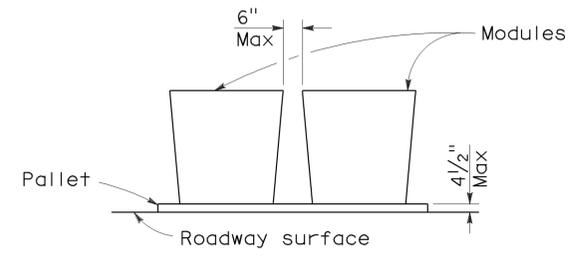
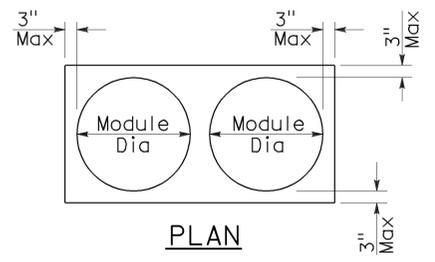
To accompany plans dated 11-29-10



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

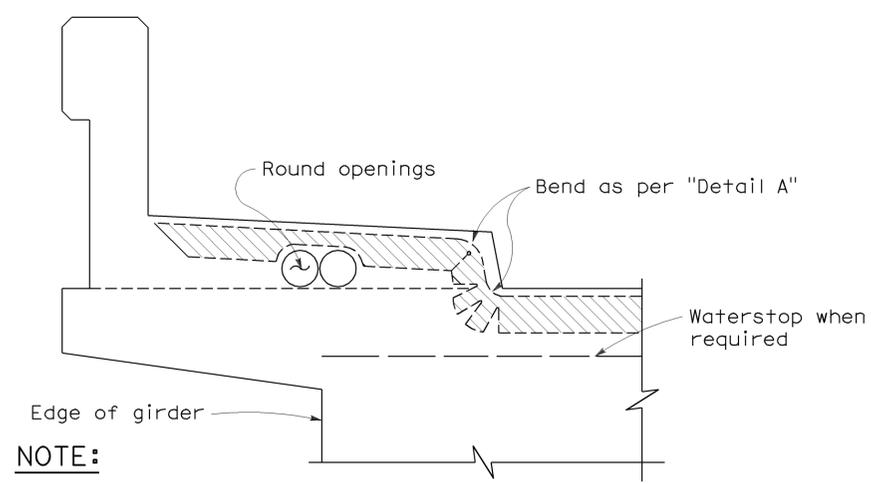
- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

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

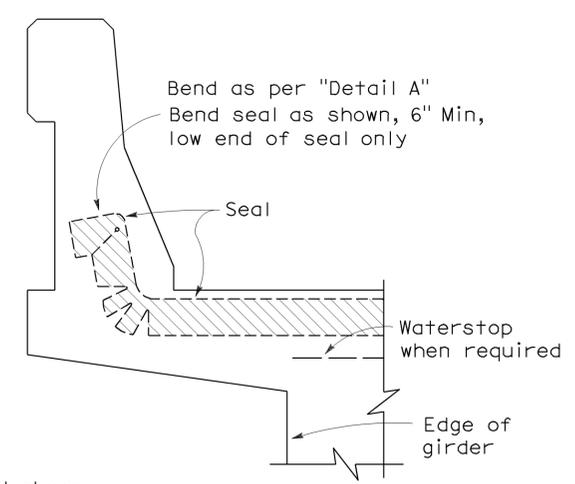
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

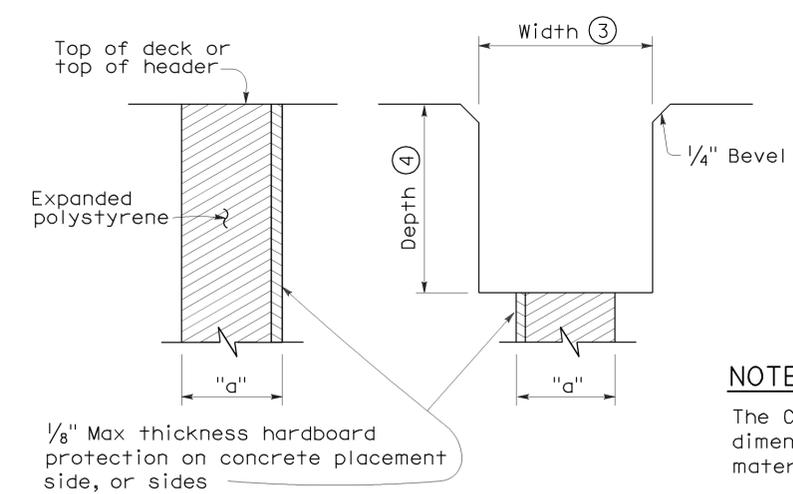


NOTE:
Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



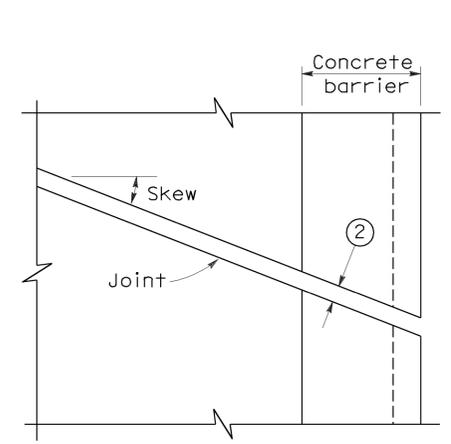
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

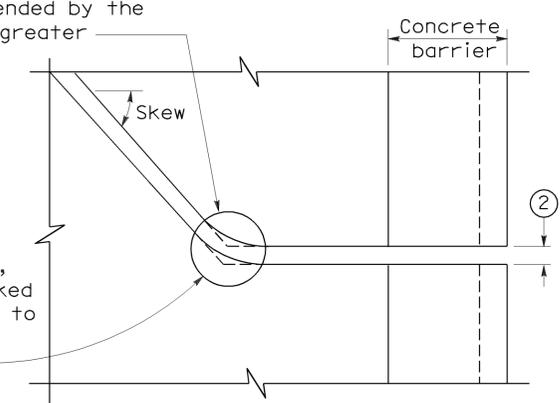
NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



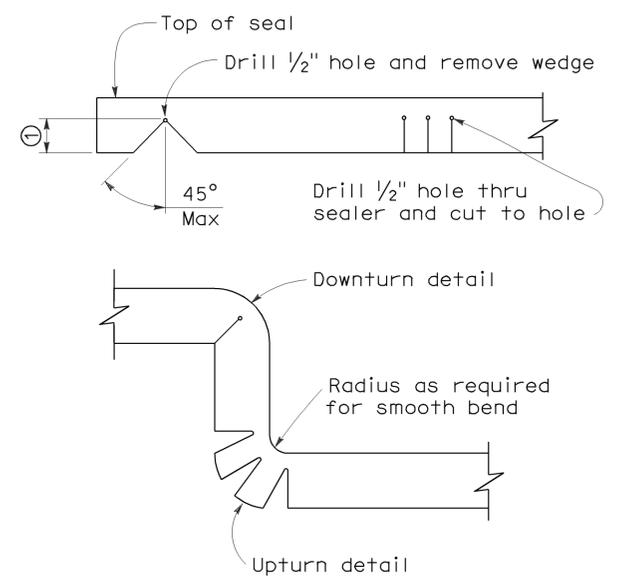
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



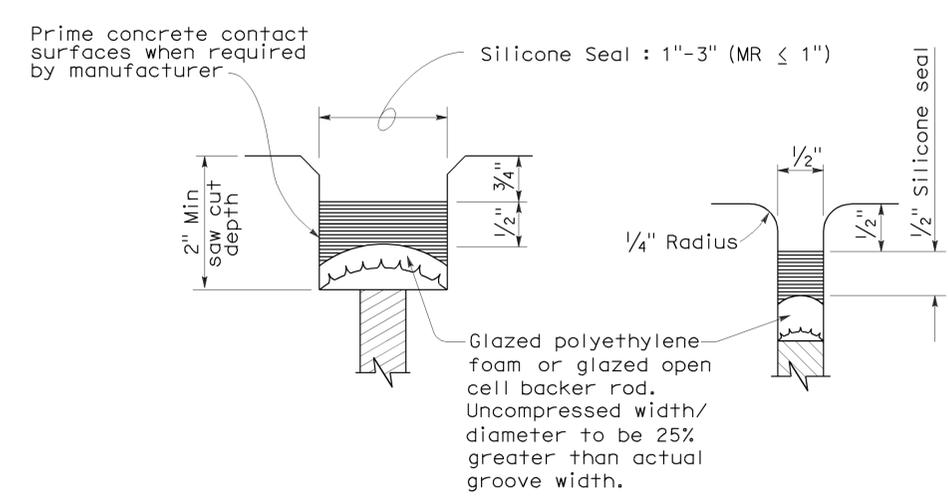
DETAIL A

NOTES:

- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
- Opening in barrier to match width of sawn deck joint.
- Sawcut groove widths shall be as ordered by the Engineer.
- Depth of sawcut: Type A - Depth to be 2" minimum.
Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
- MR (movement rating) as shown on other plan sheets.
- Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) (5)	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

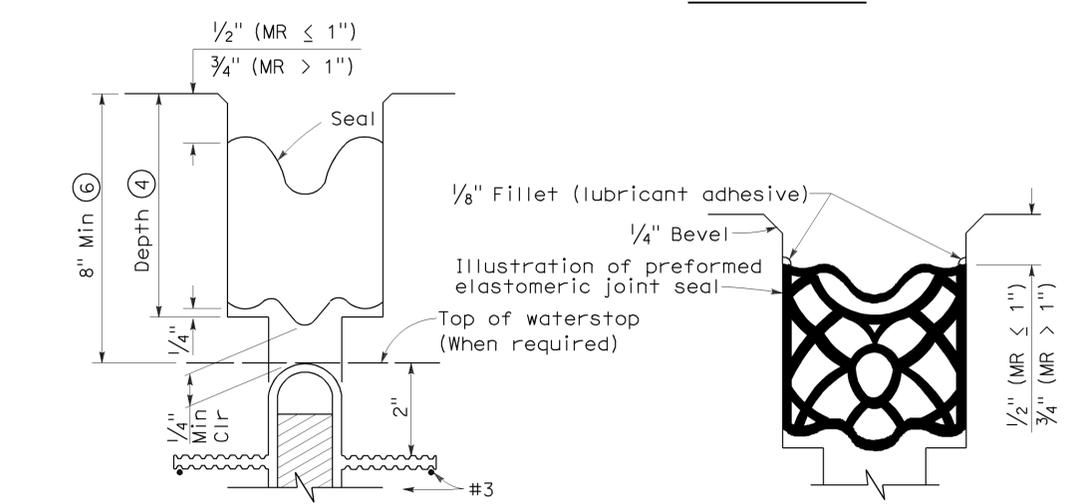


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
NO SCALE

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

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

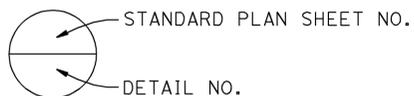
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	16	27
			09-21-10		
			REGISTERED CIVIL ENGINEER DATE		
			11-29-10		
			PLANS APPROVAL DATE		
			No. C69896		
			Exp. 09/30/10		
			CIVIL		
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Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov					

LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal.

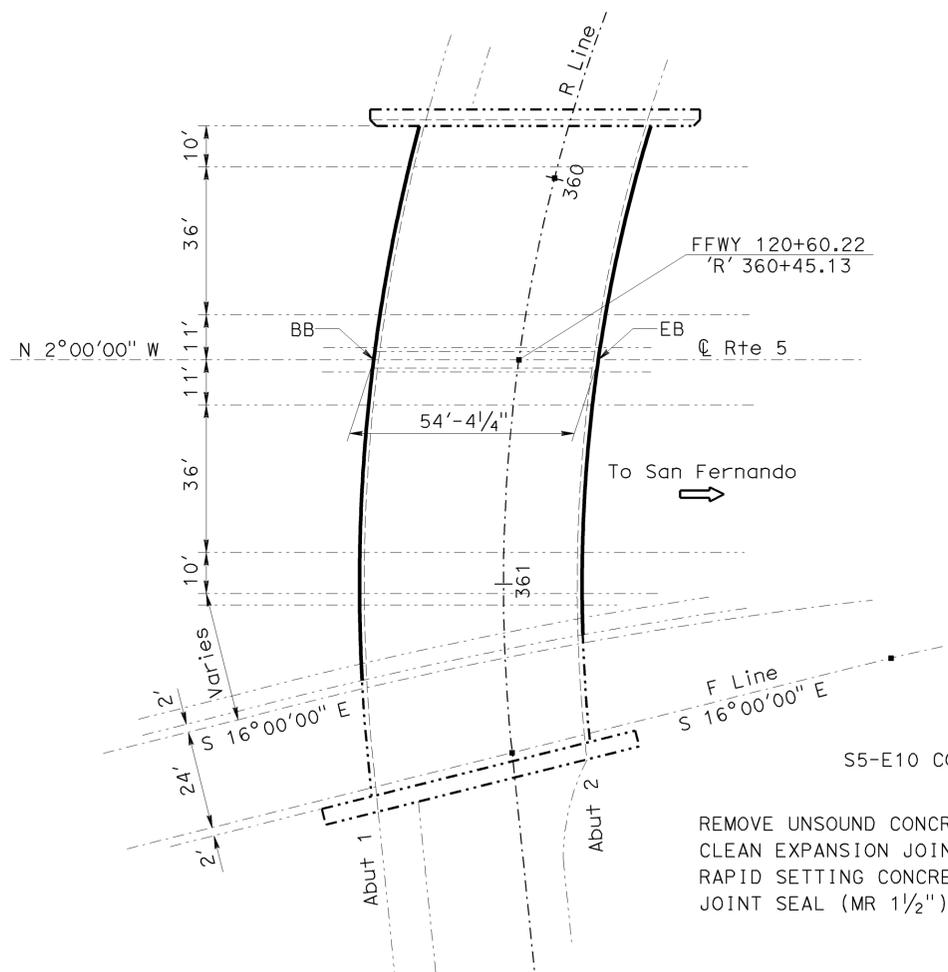
STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



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	GENERAL PLAN NO. 7
8	MISCELLANEOUS DETAILS NO. 1
9	MISCELLANEOUS DETAILS NO. 2
10	MISCELLANEOUS DETAILS NO. 3
11	DECK DRAINS DETAILS NO.1
12	DECK DRAINS DETAILS NO.2



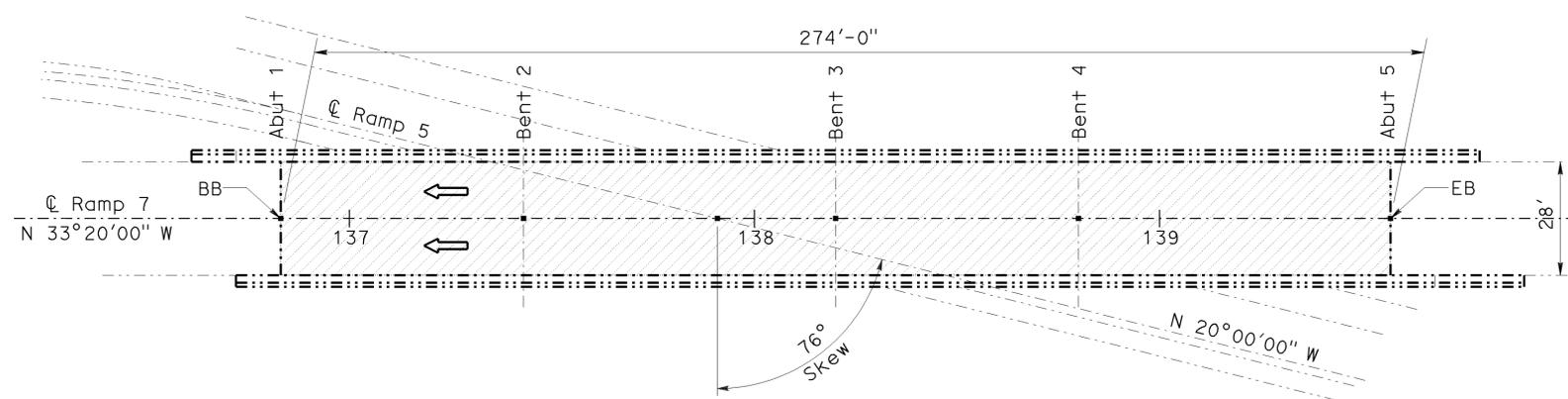
S5-E10 CONNECTOR UC #53-1316

QUANTITIES

REMOVE UNSOUND CONCRETE	2 CF
CLEAN EXPANSION JOINT	263 LF
RAPID SETTING CONCRETE (PATCH)	2 CF
JOINT SEAL (MR 1 1/2")	263 LF

S5-E10 CONNECTOR UC

Br No. 53-1316, Rte 5, PM 18.38
Scale 1"=20'



NORTH BROADWAY OFF-RAMP UC

Br No. 53-1411K, Rte 5, PM 19.5
Scale 1"=20'



NORTH BROADWAY OFF RAMP UC #53-1411K

QUANTITIES

REMOVE UNSOUND CONCRETE	20 CF
CLEAN BRIDGE DECK	7,672 SQFT
RAPID SETTING CONCRETE (PATCH)	20 CF
TREAT BRIDGE DECK	7,672 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	96 GAL

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

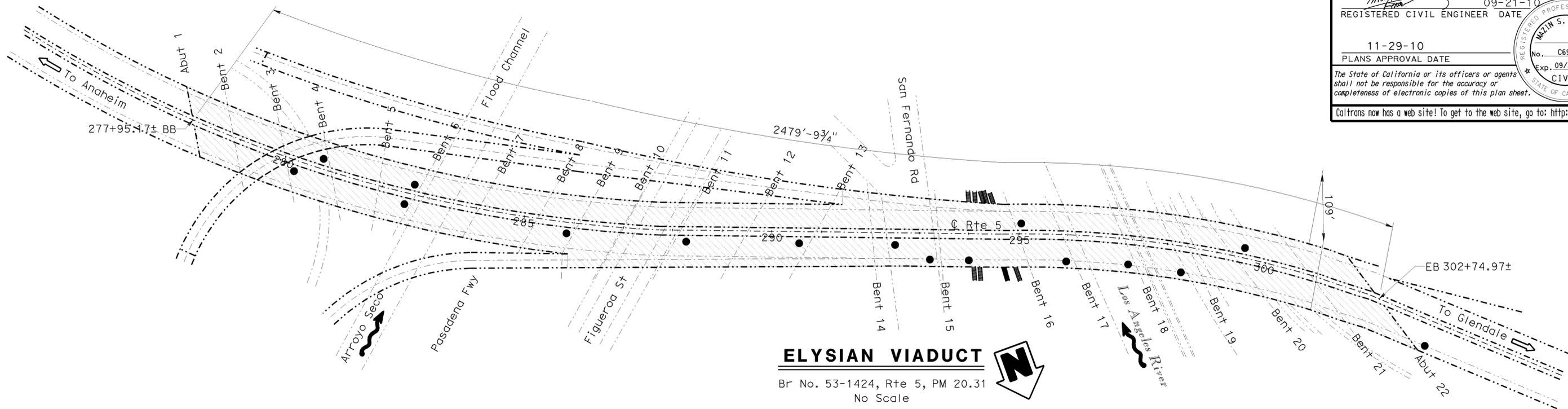
TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti
				PLANS AND SPECS COMPARED	REBECCA FRANTI

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

ROUTE 5 BRIDGES GENERAL PLAN NO. 1		SHEET 01 OF 12
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	17	27

09-21-10
 REGISTERED CIVIL ENGINEER DATE
 11-29-10
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA
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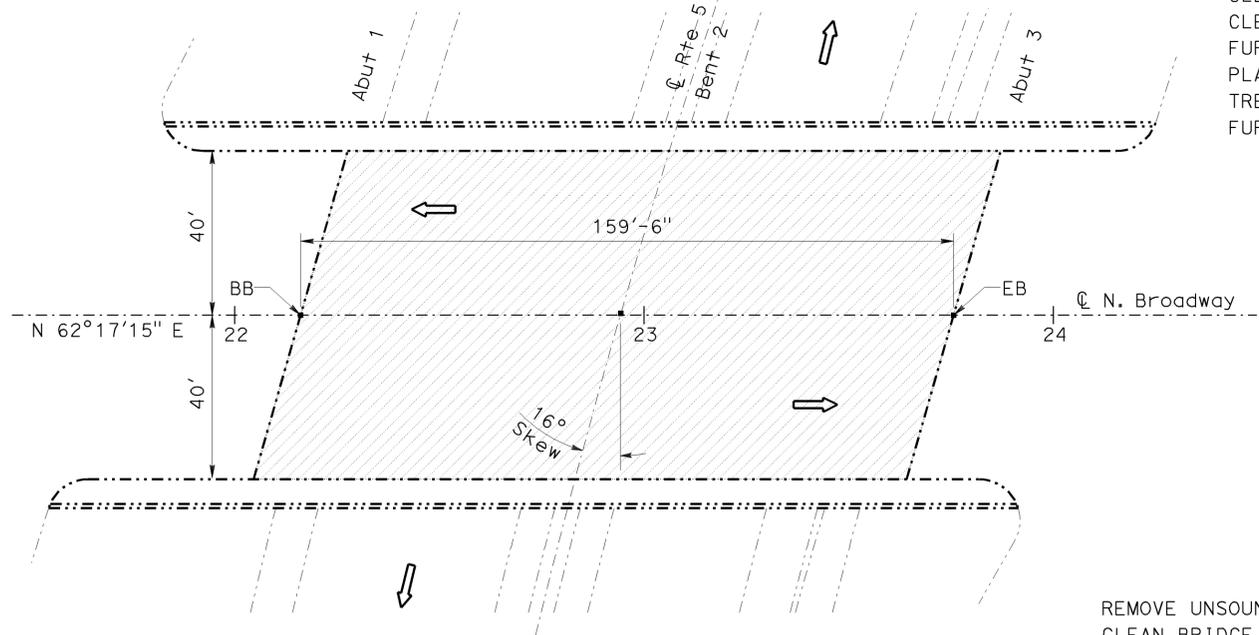


ELYSIAN VIADUCT
 Br No. 53-1424, Rte 5, PM 20.31
 No Scale
 ELYSIAN VIADUCT #53-1424
 QUANTITIES

REMOVE UNSOUND CONCRETE	3,380 CF
CLEAN BRIDGE DECK	270,320 SQFT
CLEAN BRIDGE DECK DRAIN	988 LF
FURNISH POLYESTER CONCRETE PATCH	3,380 CF
PLACE POLYESTER CONCRETE PATCH	13,516 SQFT
TREAT BRIDGE DECK	270,320 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	3,380 GAL

LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- ▨ Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with polyester concrete.
- Indicates approximate location of clear the dirt and debris from the clogged deck drain.



NORTH BROADWAY OC
 Br No. 53-1373, Rte 5, PM 19.73
 Scale 1"=20'

NORTH BROADWAY OC #53-1373
 QUANTITIES

REMOVE UNSOUND CONCRETE	32 CF
CLEAN BRIDGE DECK	12,760 SQFT
RAPID SETTING CONCRETE (PATCH)	32 CF
TREAT BRIDGE DECK	12,760 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	160 GAL

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	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.	ROUTE 5 BRIDGES GENERAL PLAN NO. 2
	DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti	PLANS AND SPECS COMPARED	REBECCA FRANTI	VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

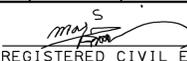
CU 07
EA 4Y2201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

04-28-10	05-04-10	05-12-10	05-24-10	06-24-10	01-30-10	08-25-10	09-21-10
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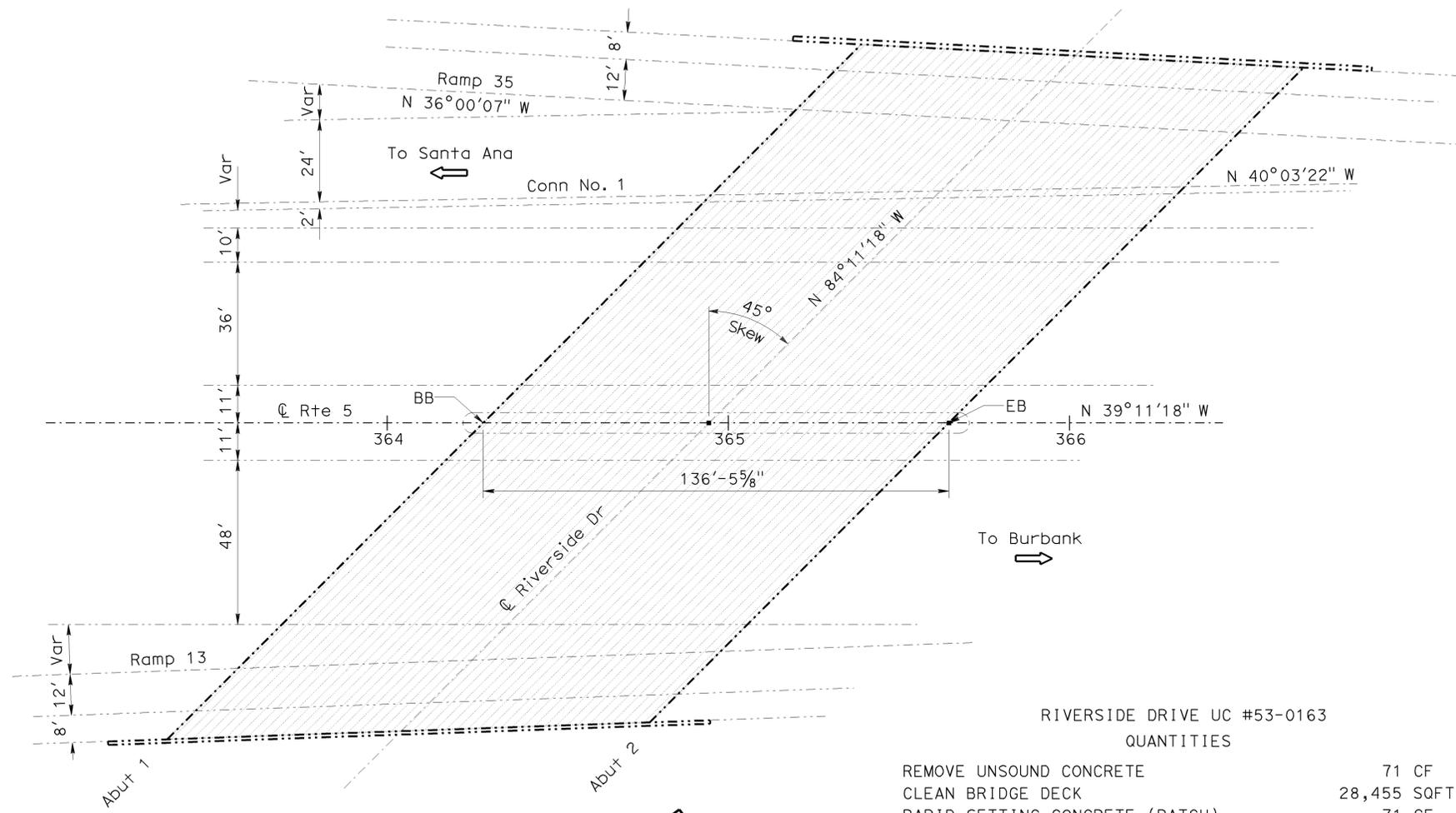
SHEET 02 OF 12

FILE => 07-4Y2201-a-gp02.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	18	27
 REGISTERED CIVIL ENGINEER DATE 09-21-10					
PLANS APPROVAL DATE 11-29-10					
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LEGEND:

- Indicates existing.
- ⇒ Indicates direction of traffic.
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



RIVERSIDE DRIVE UC
 Br No. 53-0163, Rte 5, PM 21.94
 Scale 1"=20'

RIVERSIDE DRIVE UC #53-0163
 QUANTITIES

REMOVE UNSOUND CONCRETE	71 CF
CLEAN BRIDGE DECK	28,455 SQFT
RAPID SETTING CONCRETE (PATCH)	71 CF
TREAT BRIDGE DECK	28,455 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	360 GAL

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5 BRIDGES GENERAL PLAN NO. 3						
	DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE					
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti			PLANS AND SPECS COMPARED Rebecca Franti		VARIES					
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 4Y2201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>04-28-10 05-04-10 05-12-10 05-24-10 06-24-10 08-28-10 09-21-10</td> <td>03</td> <td>12</td> </tr> </table>	REVISION DATES	SHEET	OF	04-28-10 05-04-10 05-12-10 05-24-10 06-24-10 08-28-10 09-21-10	03	12
REVISION DATES	SHEET	OF													
04-28-10 05-04-10 05-12-10 05-24-10 06-24-10 08-28-10 09-21-10	03	12													

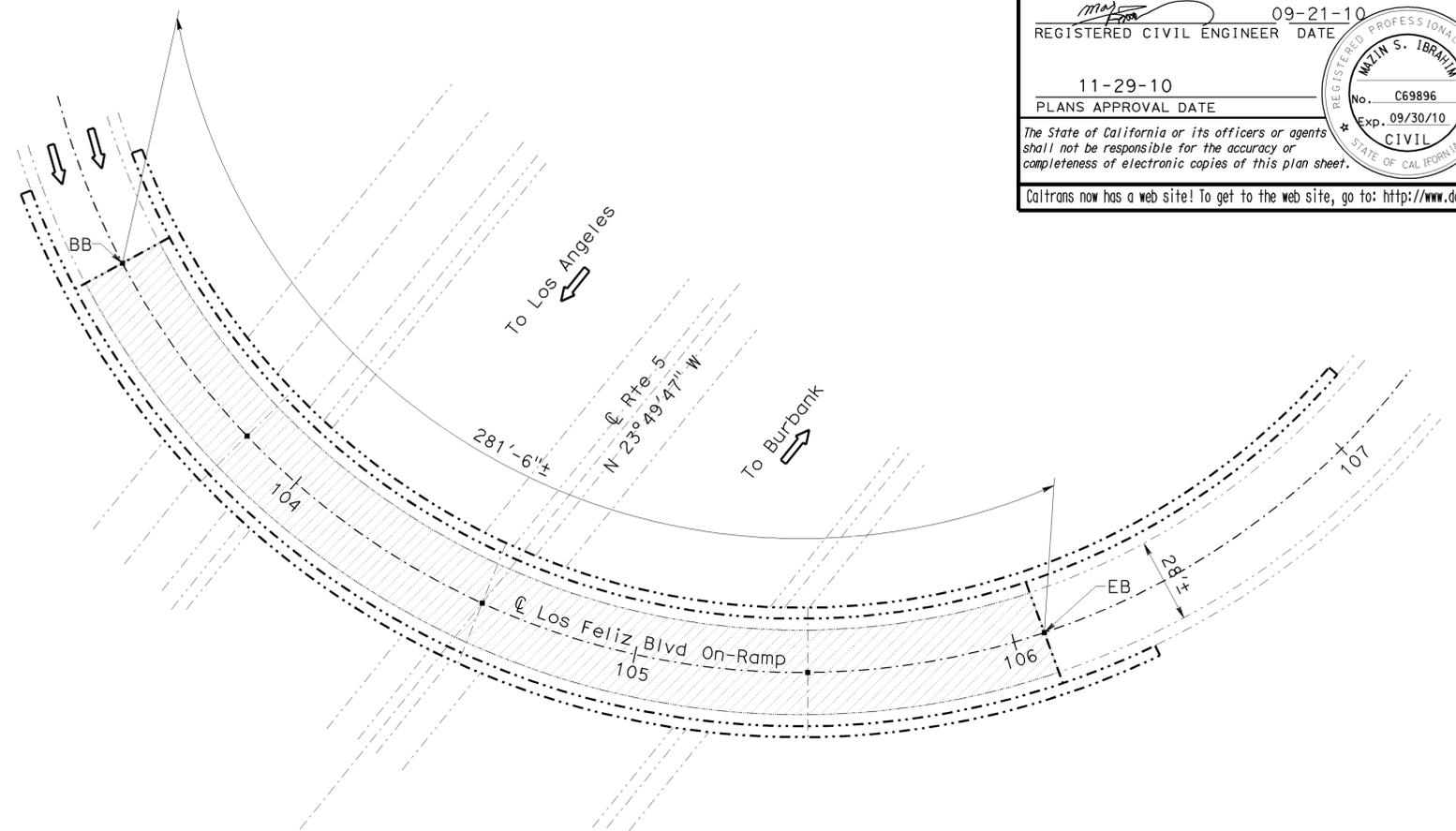
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	19	27

REGISTERED CIVIL ENGINEER DATE 09-21-10
 PLANS APPROVAL DATE 11-29-10
 No. C69896
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA
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LEGEND:

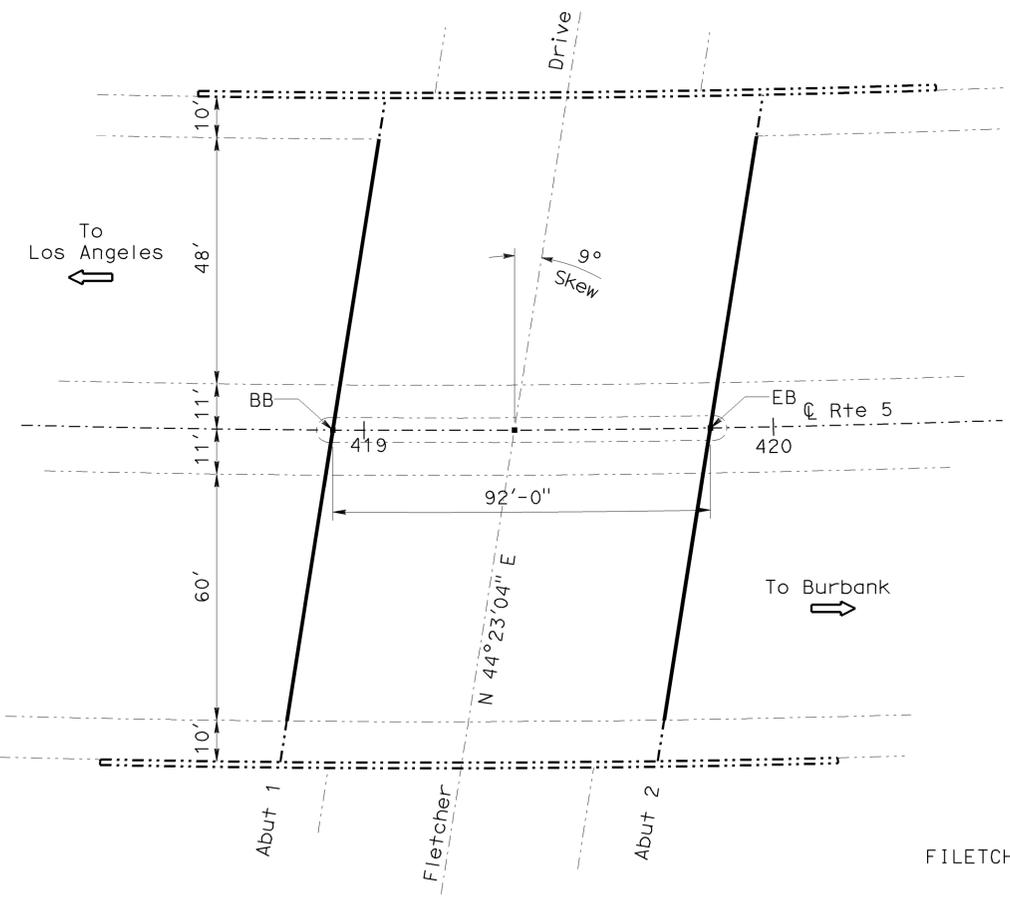
- Indicates existing.
- ⇒ Indicates direction of traffic.
- ▨ Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- Indicates location of existing joint seal removal, clean expansion joint and placement of new joint seal.



LOS FELIZ BLVD ON-RAMP OC

Br No. 53-1096S, Rte 5, PM 24.21
 Scale 1"=20'
 LOS FELIZ BLVD ON-RAMP OC #53-1096S
 QUANTITIES

REMOVE UNSOUND CONCRETE	20 CF
CLEAN BRIDGE DECK	7,882 SQFT
RAPID SETTING CONCRETE (PATCH)	20 CF
TREAT BRIDGE DECK	7,882 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	99 GAL



FLETCHER DRIVE UC

Br No. 53-1084, Rte 5, PM 22.97
 Scale 1"=20'

FILETCHER DRIVE UC #53-1084
 QUANTITIES

REMOVE UNSOUND CONCRETE	2 CF
CLEAN EXPANSION JOINT	266 LF
RAPID SETTING CONCRETE (PATCH)	2 CF
JOINT SEAL (MR 1")	266 LF

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti

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

ROUTE 5 BRIDGES GENERAL PLAN NO. 4		REVISION DATES	SHEET	OF
		04-28-10 05-04-10 05-12-10 05-24-10 06-24-10 08-25-10 09-21-10	04	12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	20	27

09-21-10
REGISTERED CIVIL ENGINEER DATE

11-29-10
PLANS APPROVAL DATE

No. C69896
Exp. 09/30/10
CIVIL
STATE OF CALIFORNIA

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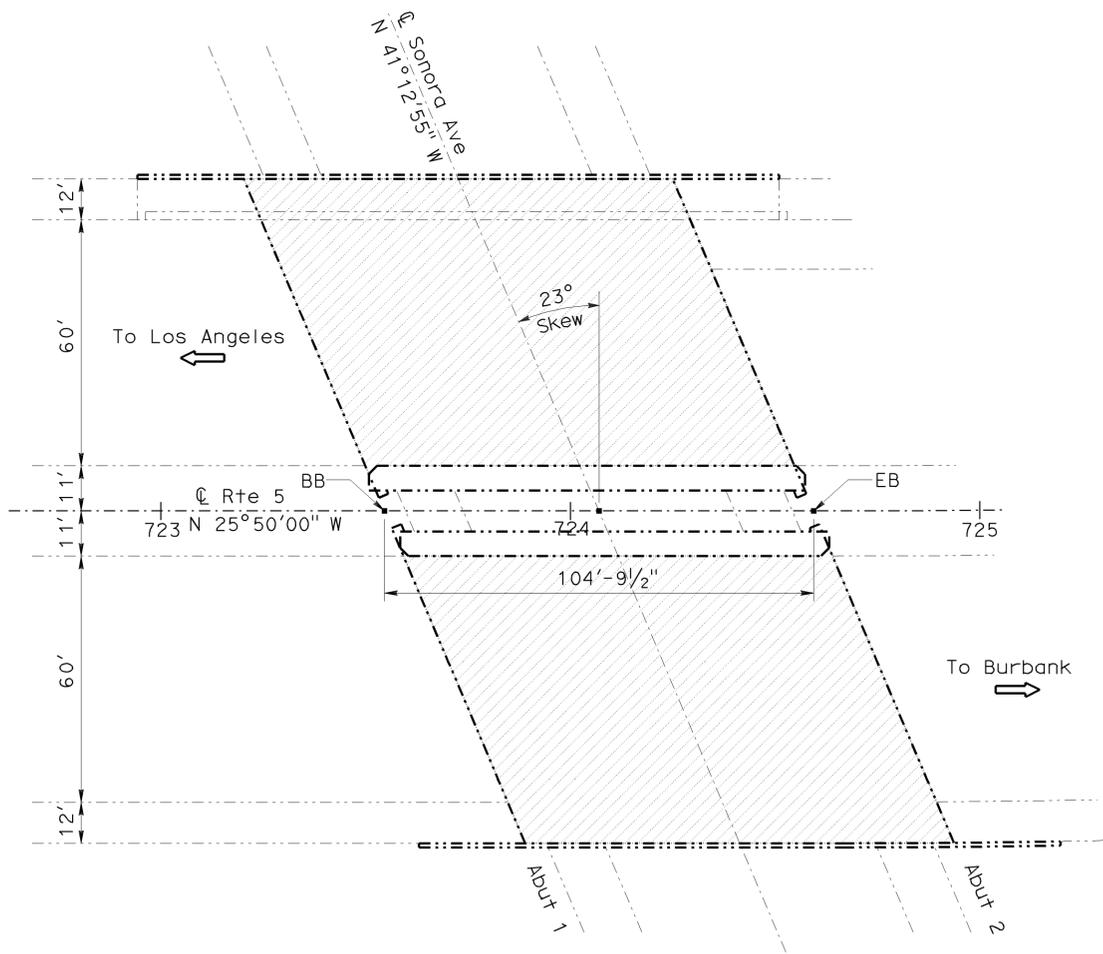
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WESTERN AVENUE UC #53-1079L/R/S
QUANTITIES

REMOVE UNSOUND CONCRETE	28 CF
CLEAN BRIDGE DECK	10,500 SQFT
CLEAN EXPANSION JOINT	56 LF
RAPID SETTING CONCRETE (PATCH)	28 CF
JOINT SEAL (MR 1/2")	56 LF
TREAT BRIDGE DECK	10,500 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	132 GAL



SONORA AVENUE UC

Br No. 53-1077L/R, Rte 5, PM 27.54
Scale 1"=20'

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

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom
QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

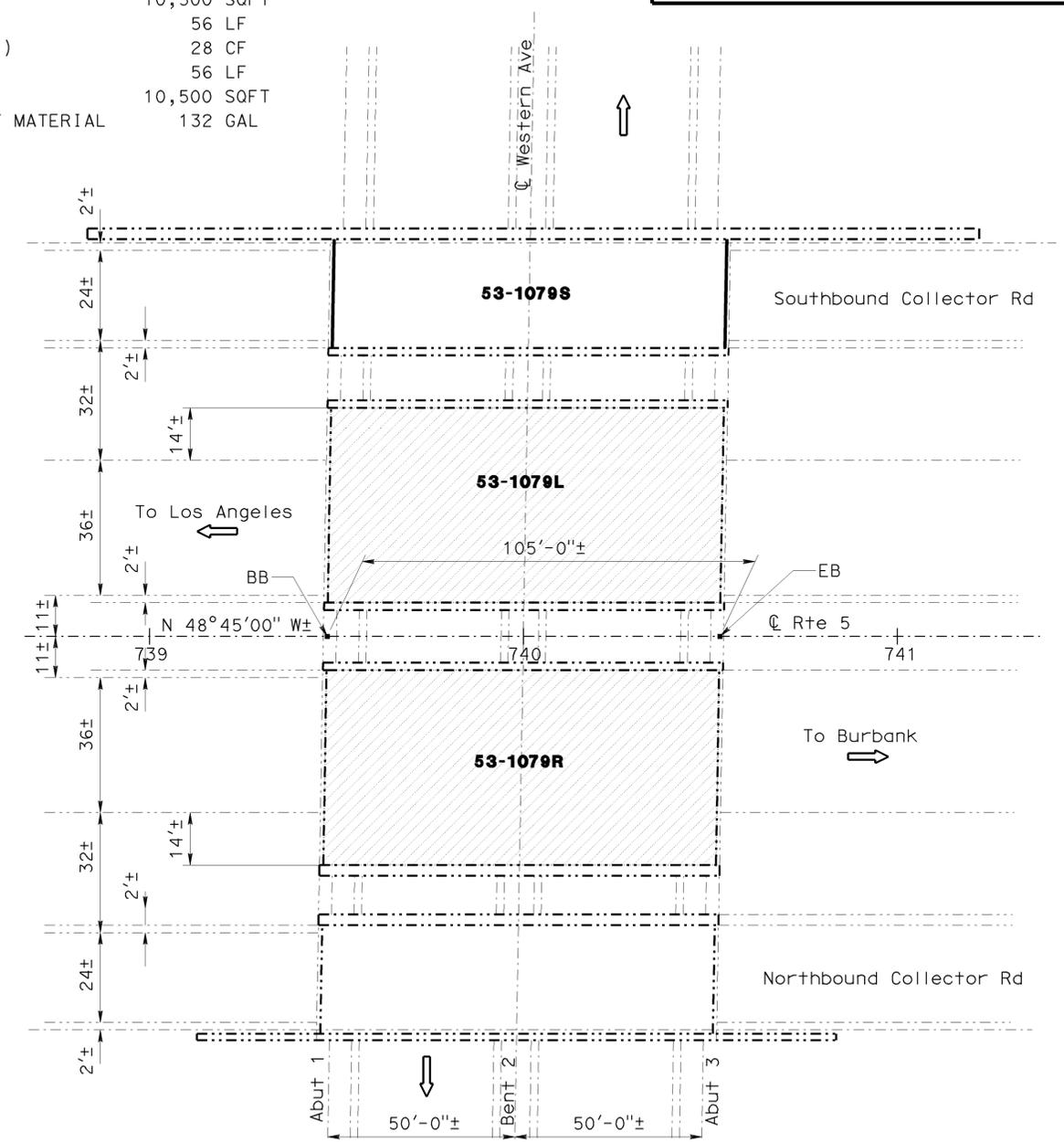
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 5 BRIDGES
GENERAL PLAN NO. 5

WESTERN AVENUE UC

Br No. 53-1079L/R/S, Rte 5, PM 27.84
Scale 1"=20'



USERNAME => s117283 DATE PLOTTED => 28-SEP-2010 TIME PLOTTED => 11:56

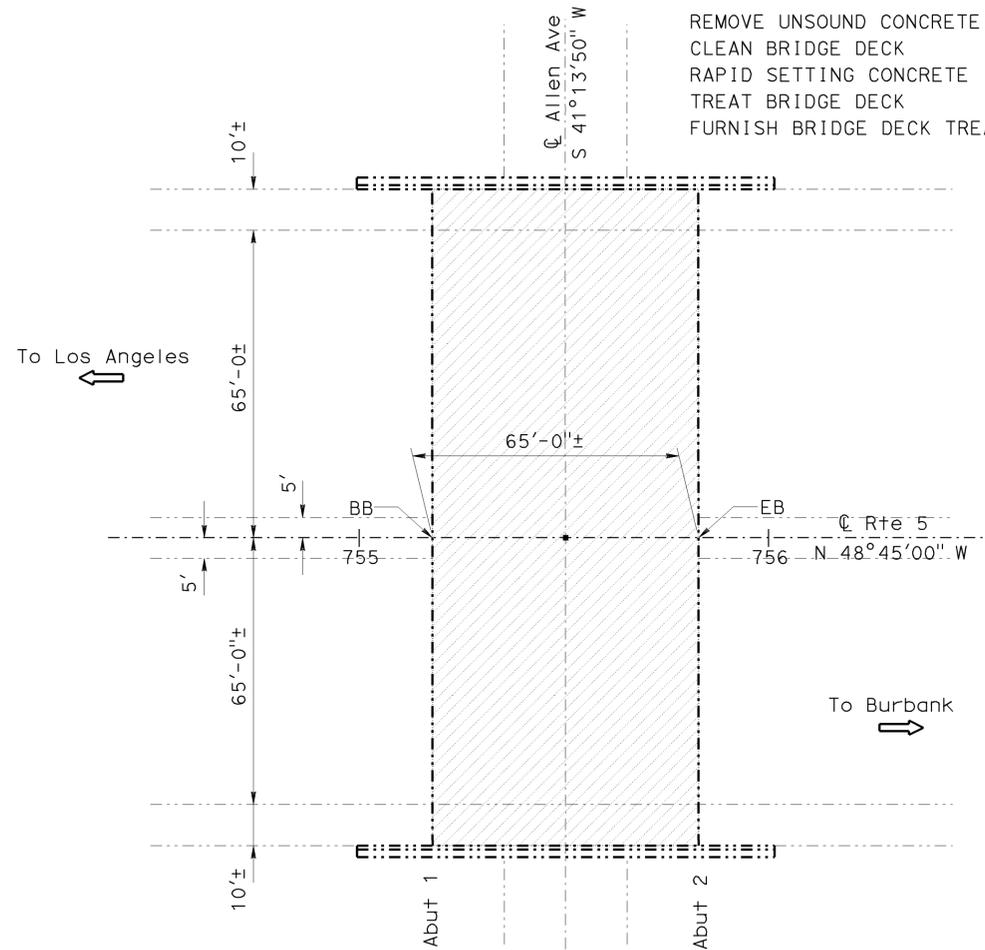
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	21	27
			09-21-10	REGISTERED CIVIL ENGINEER DATE	
			11-29-10	PLANS APPROVAL DATE	
			No. C69896	REGISTERED PROFESSIONAL ENGINEER	
			Exp. 09/30/10	Mazin S. IBRAHIM	
			CIVIL		
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ALLEN AVENUE UC #53-1081
QUANTITIES

REMOVE UNSOUND CONCRETE	28 CF
CLEAN BRIDGE DECK	11,050 SQFT
RAPID SETTING CONCRETE (PATCH)	28 CF
TREAT BRIDGE DECK	11,050 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	138 GAL



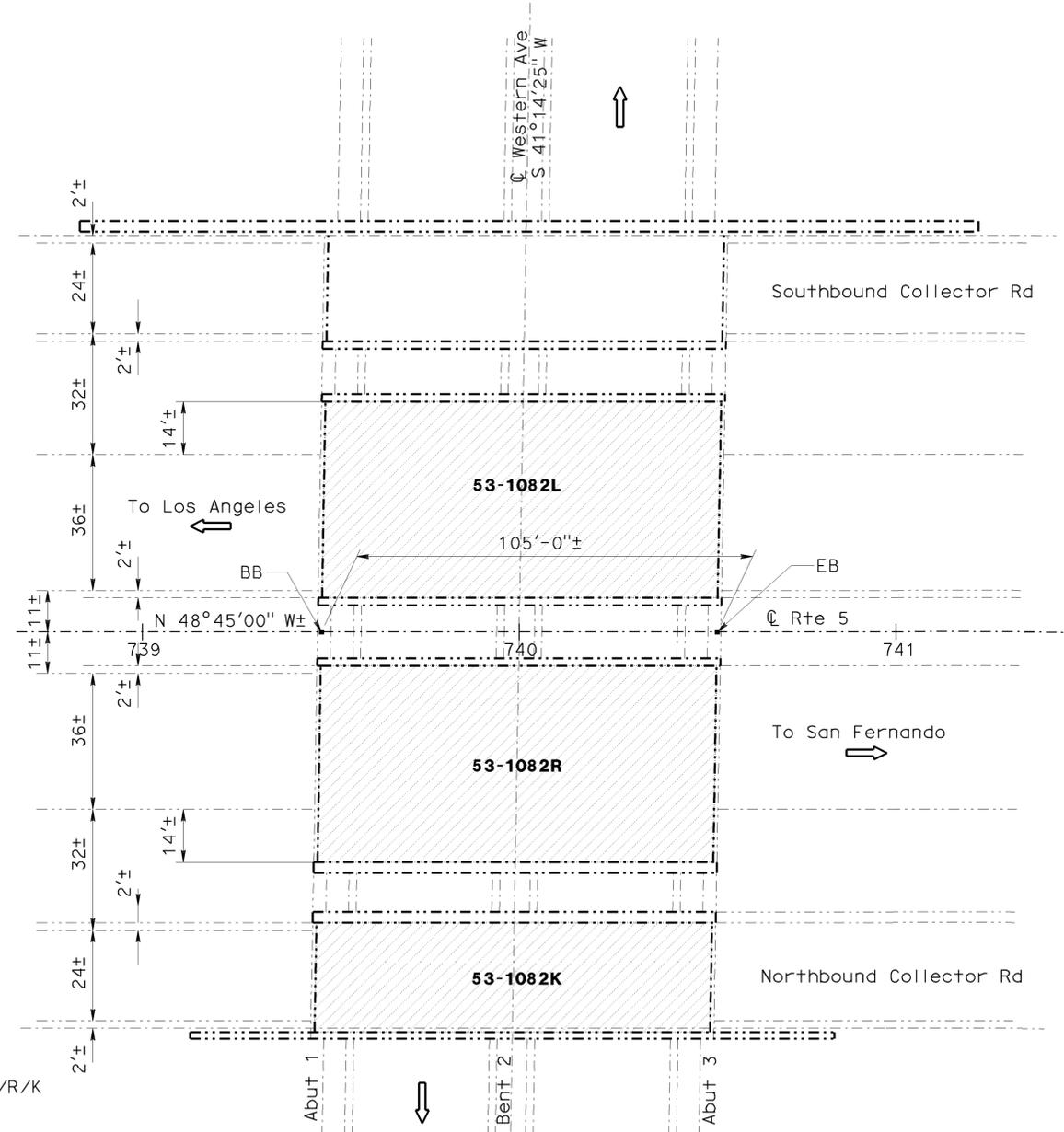
ALLEN AVENUE UC

Br No. 53-1081, Rte 5, PM 28.14
Scale 1"=20'



ALAMEDA AVENUE UC #53-1082L/R/K
QUANTITIES

REMOVE UNSOUND CONCRETE	34 CF
CLEAN BRIDGE DECK	13,440 SQFT
RAPID SETTING CONCRETE (PATCH)	34 CF
TREAT BRIDGE DECK	13,440 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	169 GAL



ALAMEDA AVENUE UC

Br No. 53-1082L/R/K, Rte 5, PM 28.43
Scale 1"=20'



NOTE:
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DESIGN ENGINEER TONY D. BRAKE	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti

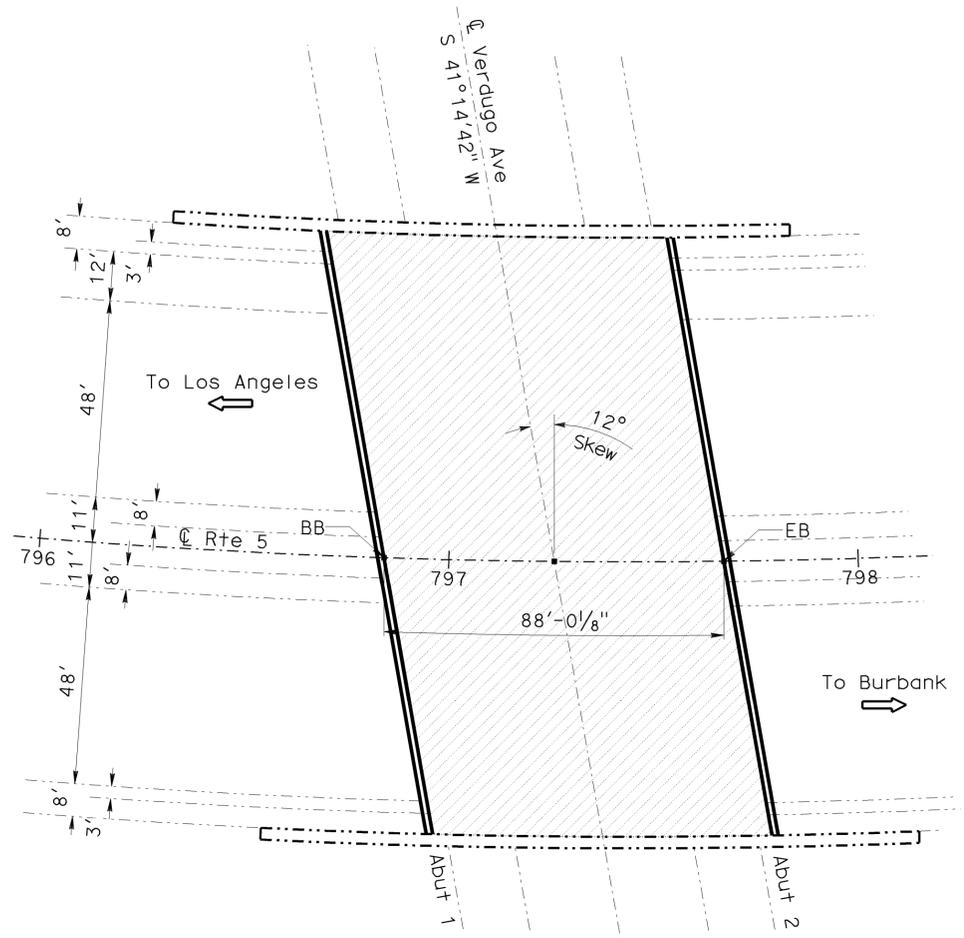
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	Various
	POST MILE	Varies
	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	

ROUTE 5 BRIDGES GENERAL PLAN NO. 6		REVISION DATES									
		01-28-10	05-04-10	05-12-10	05-24-10	06-24-10	08-25-10	09-21-10			
DESIGN ENGINEER	DATE	06	12								

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	22	27
			09-21-10	REGISTERED CIVIL ENGINEER DATE	
			11-29-10	PLANS APPROVAL DATE	
			REGISTERED PROFESSIONAL ENGINEER MAZIN S. IBRAHIM No. C69896 Exp. 09/30/10 CIVIL STATE OF CALIFORNIA		
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VERDUGO AVENUE UC #53-1086
QUANTITIES

REMOVE UNSOUND CONCRETE	36 CF
CLEAN BRIDGE DECK	12,848 SQFT
CLEAN EXPANSION JOINT	584 LF
RAPID SETTING CONCRETE (PATCH)	36 CF
JOINT SEAL (MR 1")	584 LF
TREAT BRIDGE DECK	12,848 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	161 GAL

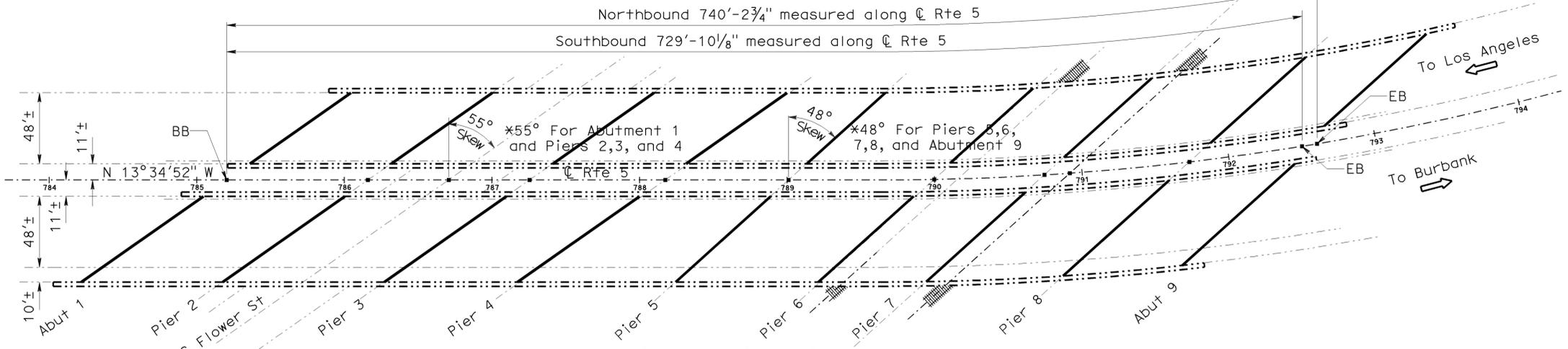
VERDUGO AVENUE UC

Br No. 53-1086, Rte 5, PM 28.92
No Scale



PROVIDENCIA OH #53-1085L/R
QUANTITIES

REMOVE UNSOUND CONCRETE	12 CF
CLEAN EXPANSION JOINT	1,539 LF
RAPID SETTING CONCRETE (PATCH)	12 CF
BONDED JOINT SEAL (MR 2")	1,539 LF



PROVIDENCIA OH

Br No. 53-1085L/R, Rte 5, PM 28.7
No Scale



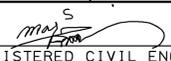
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Ramesh Patel	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY Rebecca Franti

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

ROUTE 5 BRIDGES GENERAL PLAN NO. 7		REVISION DATES							
		01-28-10 05-04-10 05-12-10 05-24-10 06-24-10 08-25-10 09-21-10	SHEET	07	OF	12			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	23	27

 09-21-10
 REGISTERED CIVIL ENGINEER DATE

11-29-10
 PLANS APPROVAL DATE

No. C69896
 Exp. 09/30/10
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 STATE OF CALIFORNIA

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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (inches)	EXISTING WATERSTOP	APPROX LENGTH (ft)	APPROX DEPTH TO CLEAN EXP JOINT (inches)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
S5-E10 Connector UC	53-1316	Abut 1	1 1/2	NO	139	6	3	6	5
		Abut 2	1 1/2	NO	124	6	3	6	5
Fletcher Drive UC	53-1084	Abut 1	1	NO	133	6	3	6	5
		Abut 2	1	NO	133	6	3	6	5
Western Avenue UC	53-1079S	Abut 1	1/2	NO	28	6	3	6	5
		Abut 3	1/2	NO	28	6	3	6	5
Verdugo Avenue UC	53-1086	Back wall at Abut 1	1	NO	141	6	3	6	5
		Abut 1	1	NO	151	6	3	6	5
		Abut 2	1	NO	141	6	3	6	5
		Back wall at Abut 2	1	NO	151	6	3	6	5
Providencia OH	53-1085L	Abut 1	2*	YES	102	12	3	6	5
		Abut 2	2*	YES	102	12	3	6	5
		Abut 3	2*	YES	102	12	3	6	5
		Abut 4	2*	YES	102	12	3	6	5
		Abut 5	2*	YES	87	12	3	6	5
		Abut 6	2*	YES	87	12	3	6	5
		Abut 7	2*	YES	87	12	3	6	5
		Abut 8	2*	YES	87	12	3	6	5
		Abut 9	2*	YES	87	12	3	6	5
Providencia OH	53-1085R	Abut 1	2*	YES	84	12	3	6	5
		Abut 2	2*	YES	84	12	3	6	5
		Abut 3	2*	YES	84	12	3	6	5
		Abut 4	2*	YES	84	12	3	6	5
		Abut 5	2*	YES	72	12	3	6	5
		Abut 6	2*	YES	72	12	3	6	5
		Abut 7	2*	YES	72	12	3	6	5
		Abut 8	2*	YES	72	12	3	6	5
		Abut 9	2*	YES	72	12	3	6	5

* Use Bonded Joint Seal

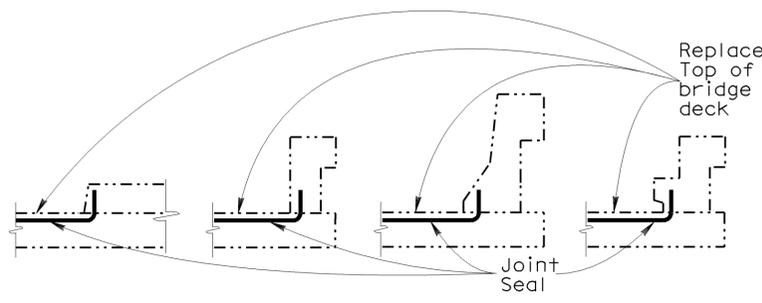
NOTE:
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DESIGN BY Mazin Ibrahim CHECKED Ramesh Patel DETAILS BY Clayton Tom CHECKED Ramesh Patel QUANTITIES BY Mazin Ibrahim CHECKED Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various POST MILE Varies	ROUTE 5 BRIDGES MISCELLANEOUS DETAILS NO. 1
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 07 EA 4Y2201	DISREGARD PRINTS BEARING EARLIER REVISION DATES
	STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)		REVISION DATES 05-04-10 05-12-10 05-24-10 06-24-10 07-09-10 08-28-10 09-21-10	SHEET OF 08 12

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USERNAME => s117283 DATE PLOTTED => 28-SEP-2010 TIME PLOTTED => 11:57

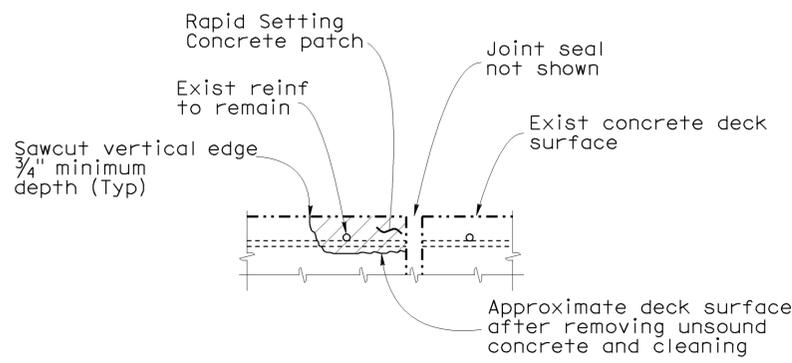
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	24	27
			09-21-10	REGISTERED CIVIL ENGINEER DATE	
			11-29-10	PLANS APPROVAL DATE	
REGISTERED PROFESSIONAL ENGINEER MAZIN S. IBRAHIM No. C69896 Exp. 09/30/10 CIVIL STATE OF CALIFORNIA					
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BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.
 For use only where deck joint matches the sidewalk, curb or barrier rail joint.



JOINT SPALL REPAIR DETAIL

Note: Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

NOTES:

The following notes apply to JOINT SEAL TYPE A:

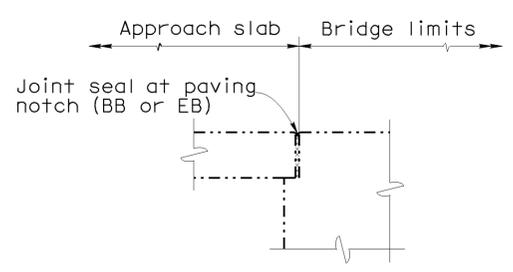
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21.

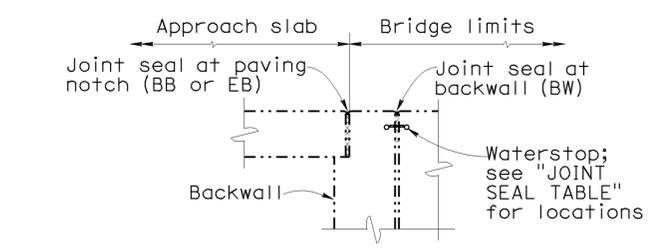
The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.
- Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

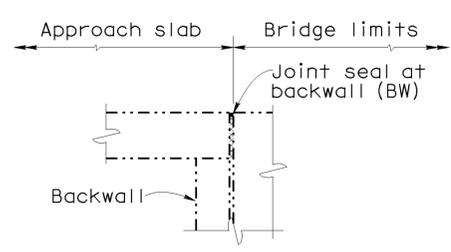
For details not shown see RSP B6-21.



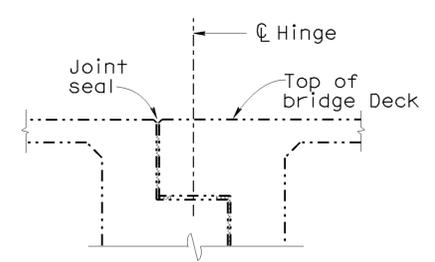
DIAPHRAGM ABUTMENT



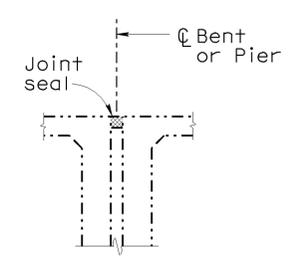
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

NOTE:
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DESIGN	BY	Mazin Ibrahim	CHECKED	Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. Various	ROUTE 5 BRIDGES			
	DETAILS	BY	Clayton Tom	CHECKED				Ramesh Patel	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	MISCELLANEOUS DETAILS NO. 2
	QUANTITIES	BY	Mazin Ibrahim	CHECKED				Ramesh Patel		
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 4Y2201	REVISION DATES	SHEET 09 OF 12		

FILE => 07-4Y2201-u-miscd+02.dgn
 USERNAME => s117283 DATE PLOTTED => 28-SEP-2010 TIME PLOTTED => 11:57

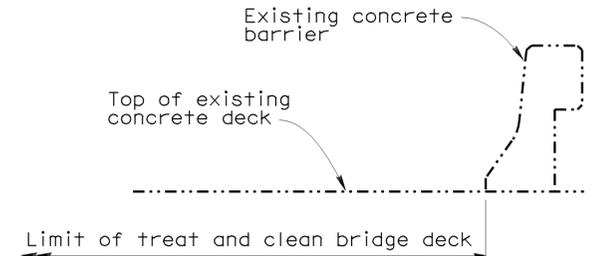
DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
North Broadway Off-Ramp UC	53-1411K	1	3
North Broadway OC	53-1373	1	3
Elysian Viaduct	53-1424	5	3
Riverside Drive UC	53-0163	1	3
Los Feliz Blvd On-Ramp OC	53-1096S	1	3
Sonora Avenue UC	53-1077L	1	3
Sonora Avenue UC	53-1077R	1	3
Western Avenue UC	53-1079L	1	3
Western Avenue UC	53-1079R	1	3
Allen Avenue UC	53-1081	1	3
Alameda Avenue UC	53-1082L	1	3
Alameda Avenue UC	53-1082R	1	3
Alameda Avenue UC	53-1082K	1	3
Verdugo Avenue UC	53-1086	1	3

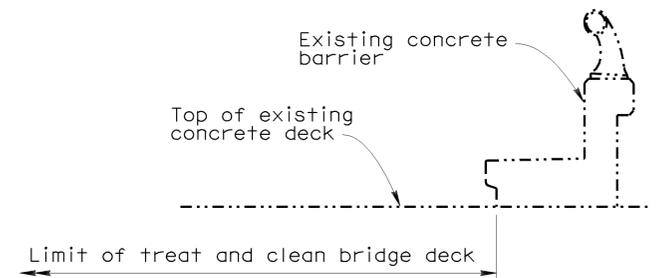
DECK REPAIR NOTES:

- 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 shall be waived with the approval of the Engineer.
- The saw cut depth shall not exceed $\frac{3}{4}$ 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.

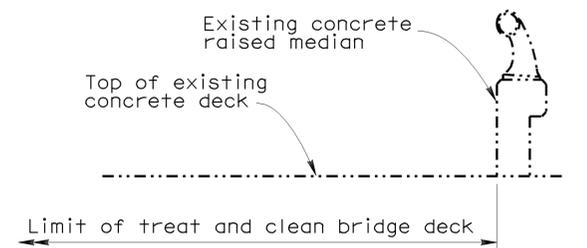
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	25	27
			09-21-10		
			REGISTERED CIVIL ENGINEER DATE		
			11-29-10		
			PLANS APPROVAL DATE		
			No. C69896		
			Exp. 09/30/10		
			CIVIL		
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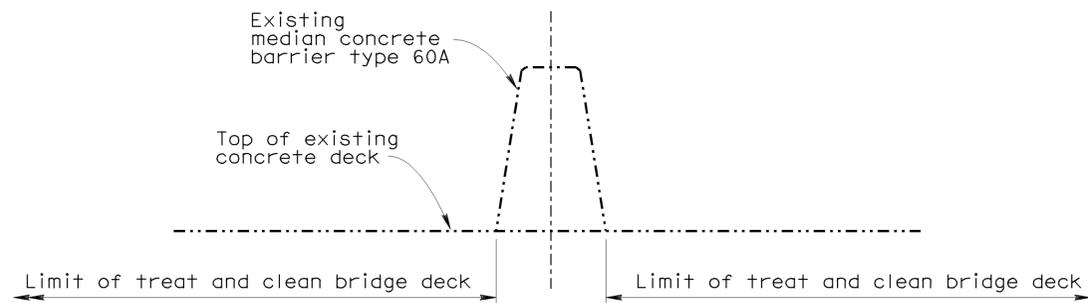
EOD BARRIER



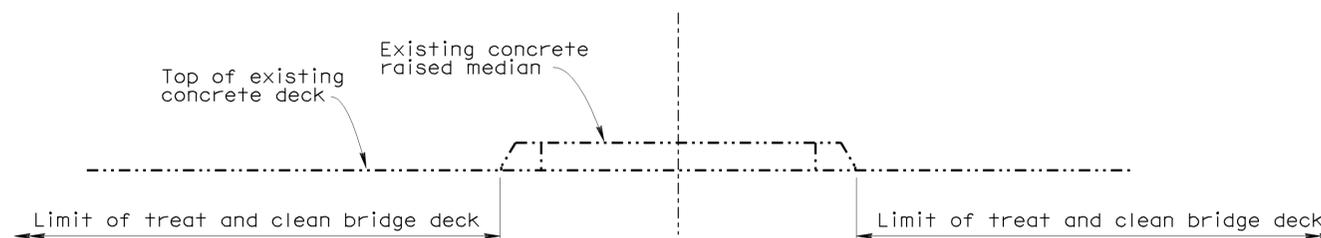
SIDEWALK BARRIER TYPE 2



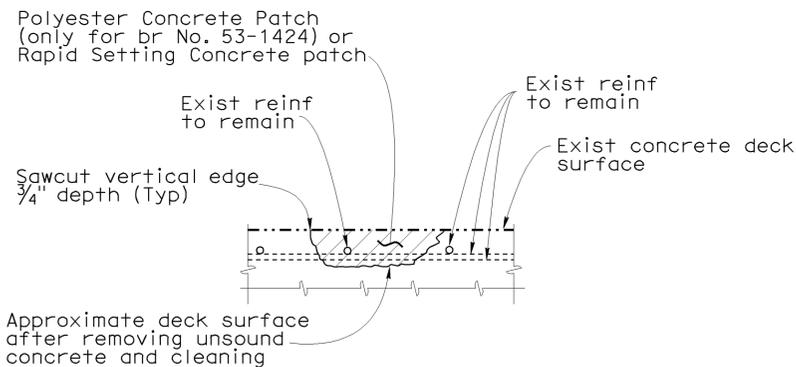
SIDEWALK BARRIER TYPE 1



MEDIAN BARRIER



RAISED MEDIAN



DECK DAMAGE REPAIR DETAIL

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

TYPICAL LIMITS OF DECK WORK

NO SCALE

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

DESIGN	BY	Mazin Ibrahim	CHECKED	Ramesh Patel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTE 5 BRIDGES			
	DETAILS	BY	Clayton Tom	CHECKED			Ramesh Patel			POST MILE	Varies	MISCELLANEOUS DETAILS NO. 3
	QUANTITIES	BY	Mazin Ibrahim	CHECKED			Ramesh Patel			REVISION DATES		
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 4Y2201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10	12			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	26	27

09-21-10
REGISTERED CIVIL ENGINEER DATE

11-29-10
PLANS APPROVAL DATE

No. C69896
Exp. 09/30/10
CIVIL
STATE OF CALIFORNIA

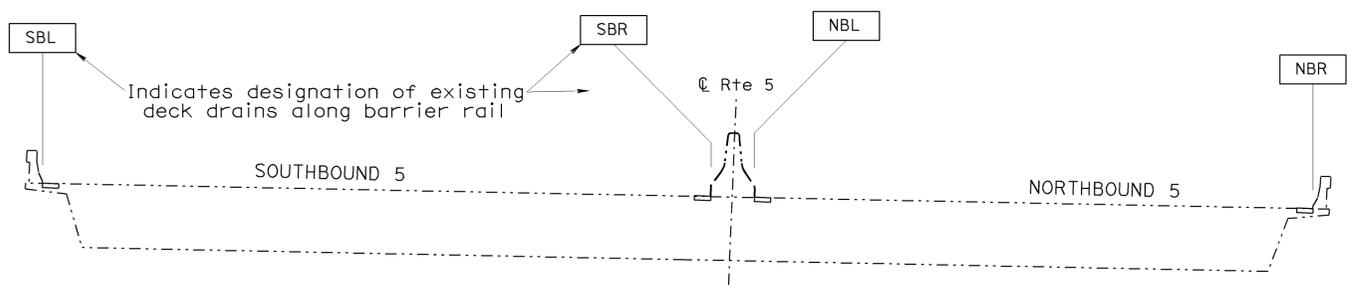
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Caltrans now has web site! To get to the web site, go to: <http://www.dot.ca.gov>

DECK DRAINS TABLE (SBR LINE)				
INLET ID	STATION ALONG C RTE 105	INLET TYPE	LOCATION OF COLLECTOR PIPE	APPROX. LENGTH OF CLEANOUT (FT)
SBR-1	281+00	D-2	BENT 4	40
SBR-2	284+00	D-2	BENT 6	40
SBR-3	295+20	D-2	BENT 16	40
SBR-4	299+85	D-2	BENT 20	40

DECK DRAINS TABLE (NBL LINE)				
INLET ID	STATION ALONG C RTE 105	INLET TYPE	LOCATION OF COLLECTOR PIPE	APPROX. LENGTH OF CLEANOUT (FT)
NBL-1	280+10	D-2	BENT 3	42
NBL-2	283+00	D-2	BENT 5	42
NBL-3	286+00	D-2	BENT 9	42
NBL-4	288+20	D-2	BENT 11	42
NBL-5	289+60	D-2	BENT 13	42
NBL-6	290+00	D-2	BENT 14	42

DECK DRAINS TABLE (NBR LINE)				
INLET ID	STATION ALONG C RTE 105	INLET TYPE	LOCATION OF COLLECTOR PIPE	APPROX. LENGTH OF CLEANOUT (FT)
NBR-1	292+20	D-2	BENT 15	96
NBR-2	294+40	D-2	BENT 15	96
NBR-3	296+10	D-2	BENT 17	96
NBR-4	297+40	D-2	BENT 18	96
NBR-5	298+90	D-2	BENT 19	96
NBR-6	303+00	D-2	BENT 20	96



TYPICAL SECTION
(LOOKING UPSTATION)
NO SCALE
Br No. 53-1424

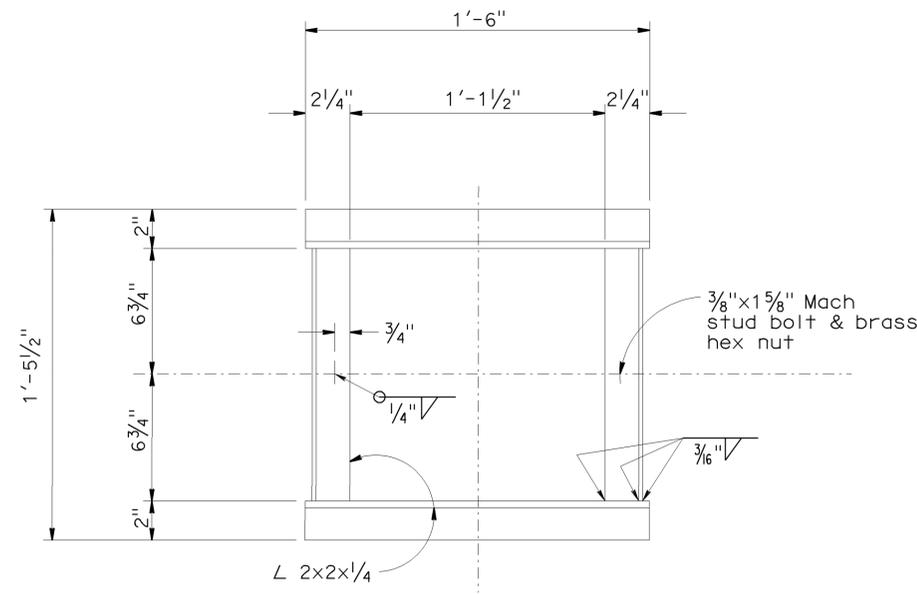
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	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.	ROUTE 5 BRIDGES DECK DRAINS DETAILS NO. 1		
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			POST MILE		Varies	
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY X			PLANS AND SPECS COMPARED		Varies	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 4Y2201	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 11 OF 12

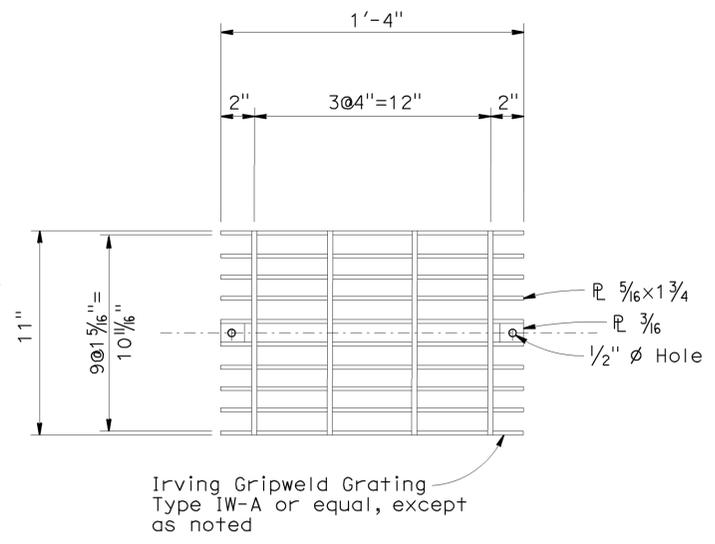
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	18.4/29.0	27	27

REGISTERED CIVIL ENGINEER DATE 09-21-10
 PLANS APPROVAL DATE 11-29-10
 No. C69896
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA
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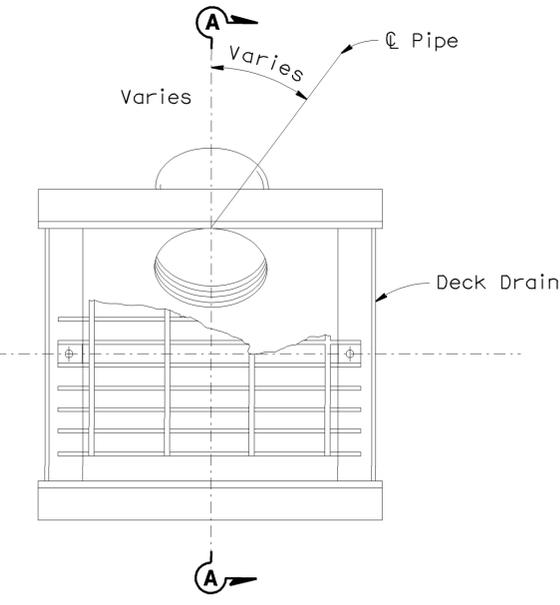
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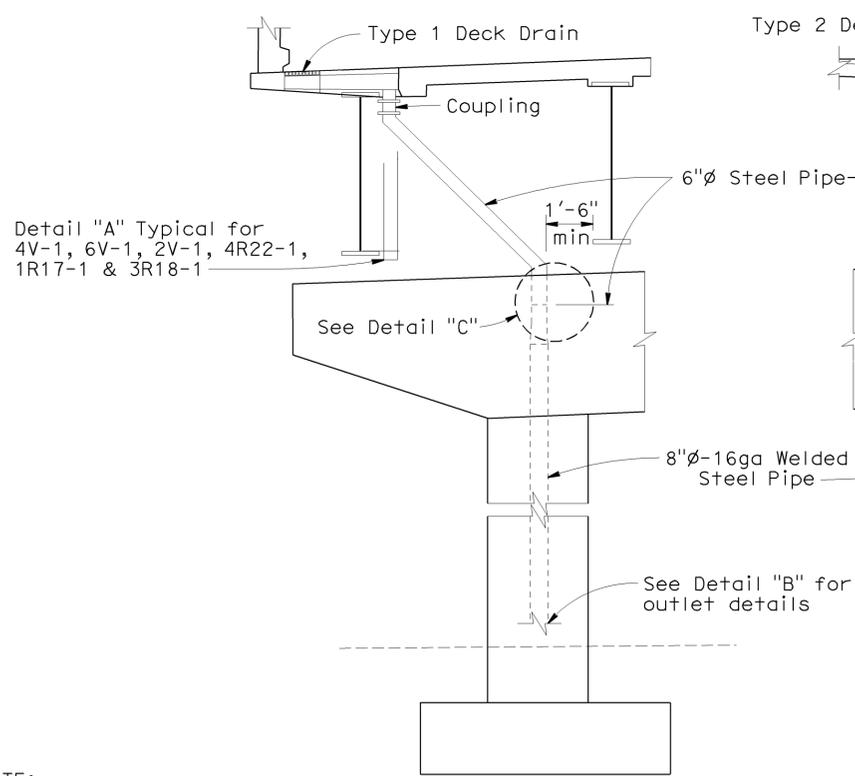
GRATE

DECK DRAIN (Type 3)

No Scale



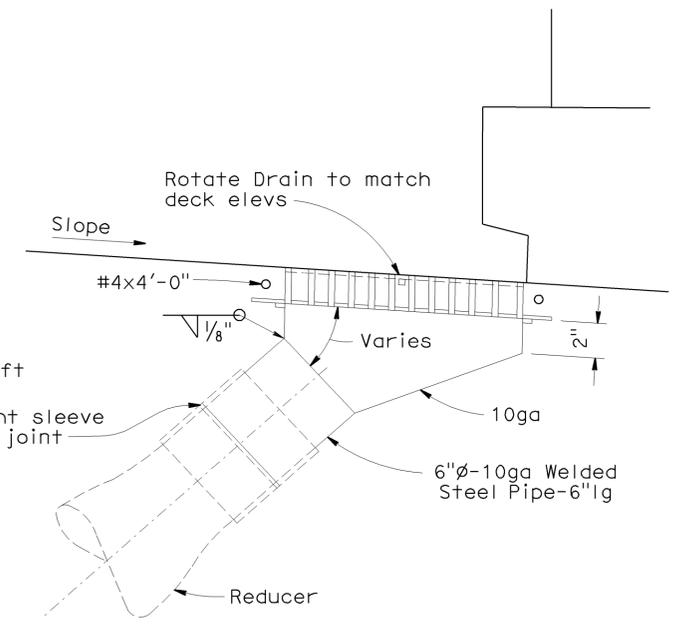
PLAN



BENT DRAINAGE DETAILS

No Scale
53-1424

Note:
Piping embedded in concrete to be located at C Column and Cap as nearly as possible



SECTION A-A
No Scale

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

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Mazin Ibrahim	CHECKED Ramesh Patel	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5 BRIDGES DECK DRAINS DETAILS NO. 2	
	DETAILS	BY Clayton Tom	CHECKED Mazin Ibrahim	LAYOUT	BY Clayton Tom			CHECKED Mazin Ibrahim		POST MILE
	QUANTITIES	BY Mazin Ibrahim	CHECKED Ramesh Patel	SPECIFICATIONS	BY X			PLANS AND SPECS COMPARED		VARIES

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07 EA 4Y2201 DISREGARD PRINTS BEARING EARLIER REVISION DATES 07-08-10 08-25-10 09-21-10

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