INDEX OF PLANS

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1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-10	TRAFFIC HANDLING DETAILS
11	PAVEMENT DELINEATION QUANTITIES
12-22	REVISED STANDARD PLANS

STRUCTURES

23-35	ROUTE 10 & 710 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

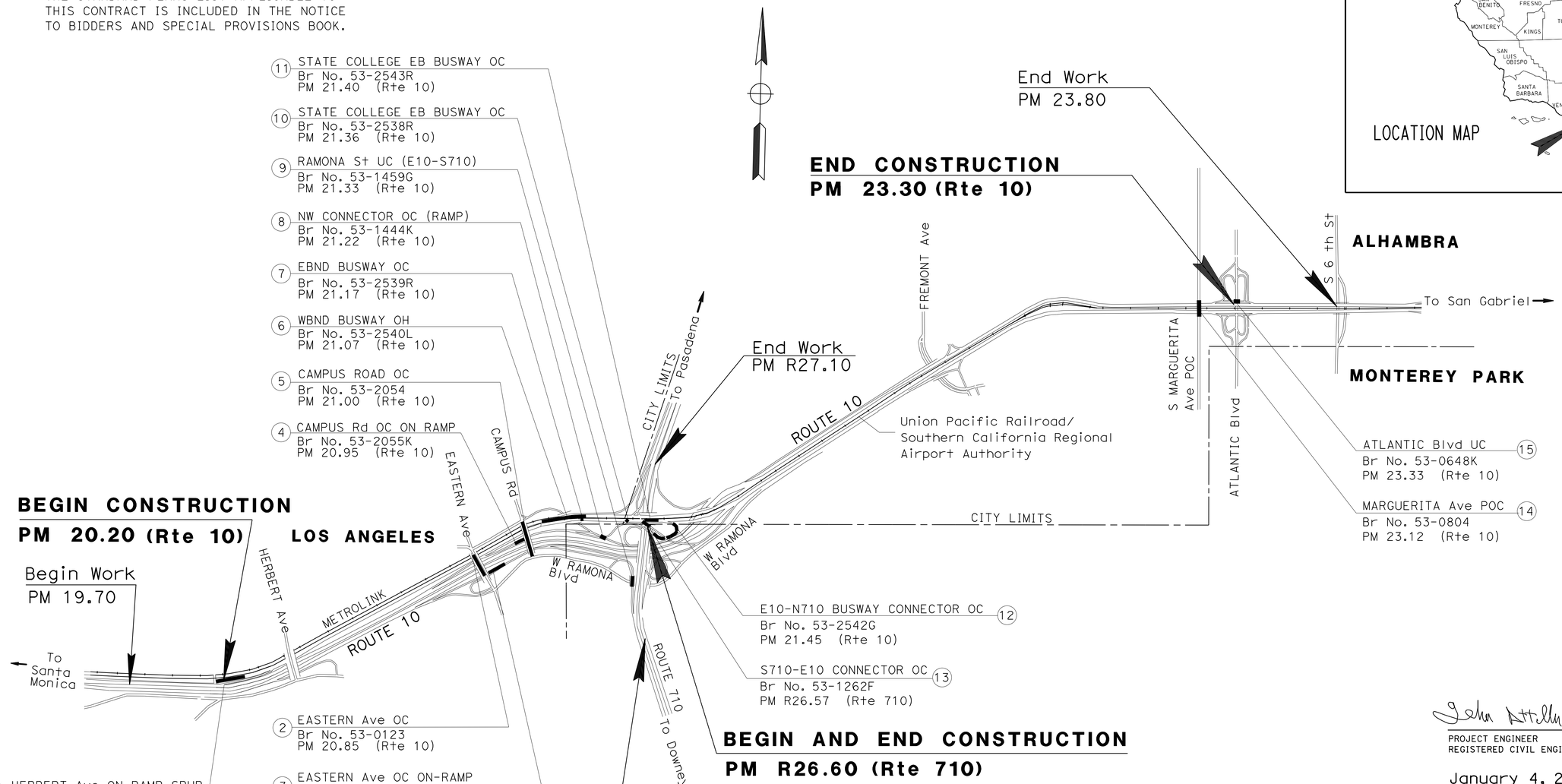
STATE HIGHWAY

IN LOS ANGELES COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	1	35

LOCATION MAP



NO SCALE

PROJECT MANAGER: CHRISTIAN SAM

DESIGN MANAGER: LARRY WIERING

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

GEHAN ATTALLAH 12-10-15

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 4, 2016

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — GEHAN ATTALLAH — No. 79698 — Exp. 9-30-16 — CIVIL — STATE OF CALIFORNIA

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

DATE PLOTTED => 23-DEC-2015
TIME PLOTTED => 13:54

LAST REVISION 01-04-16

CONTRACT No.	07-2W6404
PROJECT ID	0713000430

BORDER LAST REVISED 10/4/2013 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s122436 DGN FILE => 72W640ab001.dgn | UNIT 1963 | PROJECT NUMBER & PHASE 07130004301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	2	35

REGISTERED CIVIL ENGINEER — DATE 12-10-15

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — GEHAN ATTALLAH — No. 79698 — Exp. 9-30-16 — CIVIL — STATE OF CALIFORNIA

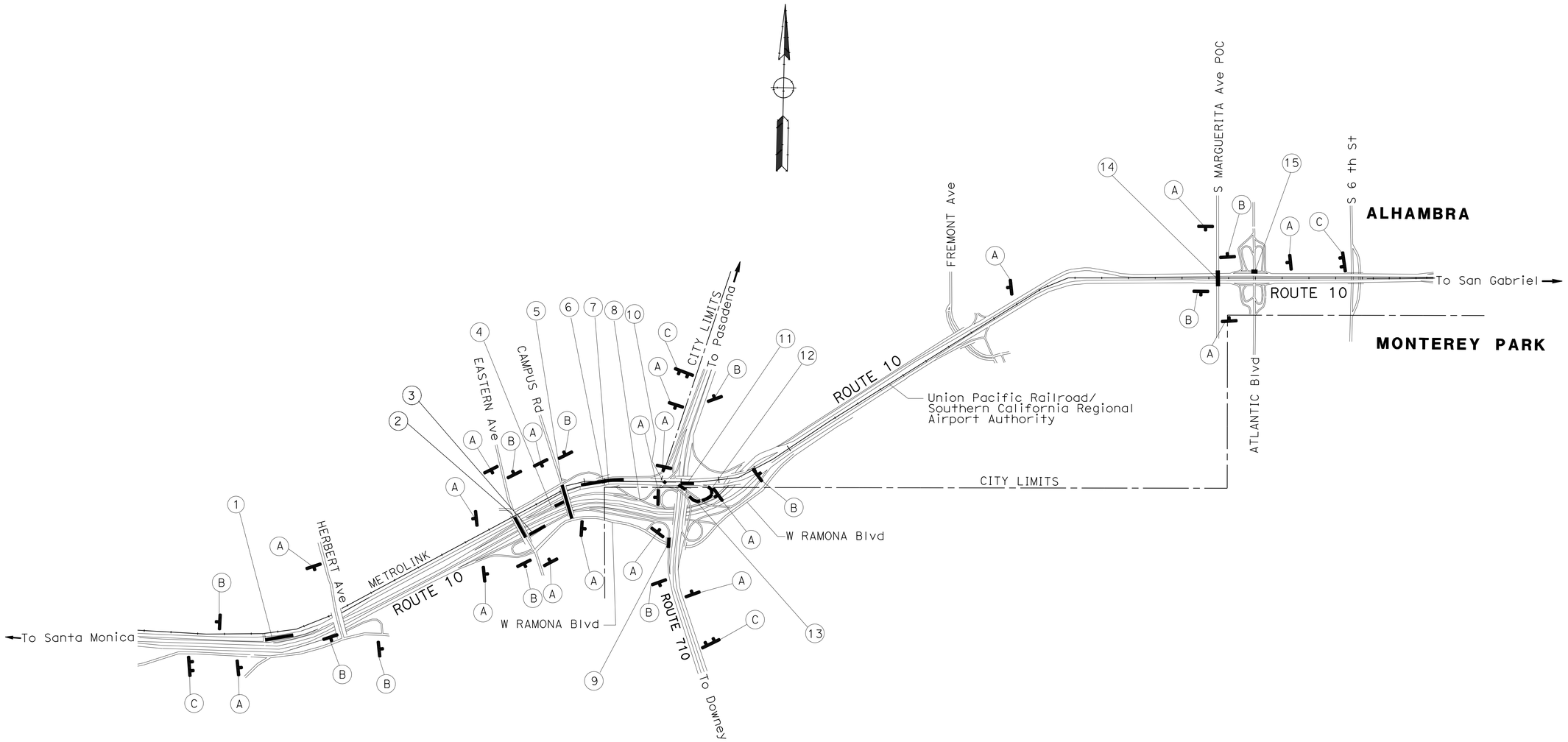
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	FEDERAL	CALIFORNIA	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	18
B	G20-2		48" X 24"	END ROAD WORK	1 - 4" x 6"	11
C		C40(CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 8"	4



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: LARRY WIERING

CALCULATED-DESIGNED BY: GEHAN ATTALAH
CHECKED BY: LARRY WIERING

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 23-DEC-2015
01-04-15 | TIME PLOTTED => 13:54

BORDER LAST REVISED 7/2/2010

USERNAME => s122436
DGN FILE => 72W6401a001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1963

PROJECT NUMBER & PHASE 07130004301

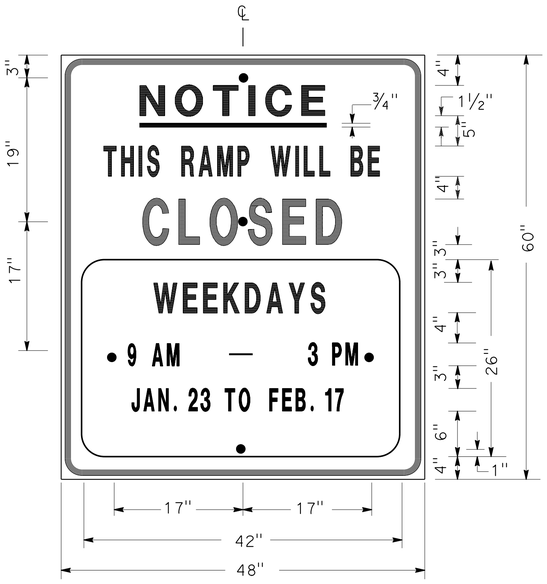
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	3	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

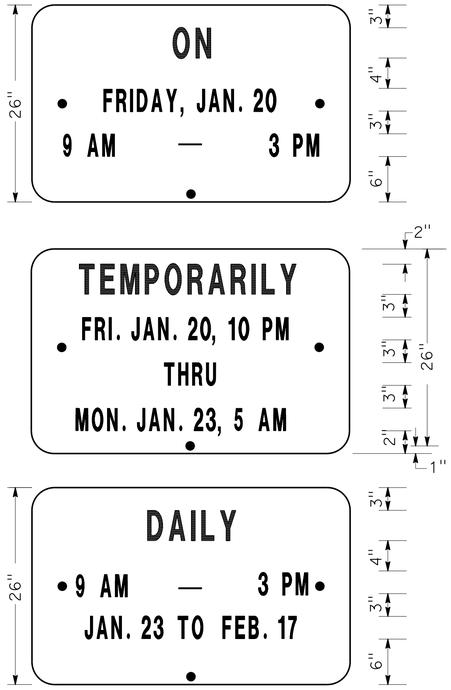
1-4-16
PLANS APPROVAL DATE

ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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



SIGN SP-1



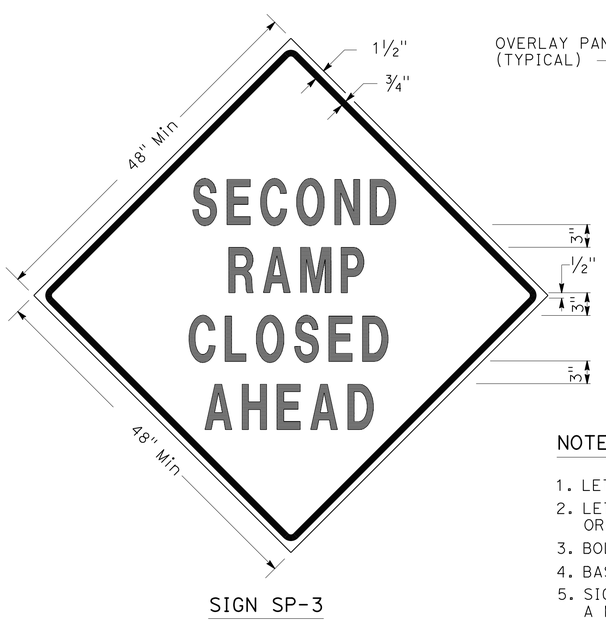
ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: SIGN SP-1

1. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES MUST BE ⅜" DIAMETER.
3. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
4. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7′ ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1¼"	¾"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1½"
* CONDENSED SPACING IF NECESSARY								

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

SIGN SP-5

NOTES: SIGNS SP-3 & SP-5

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
3. BOLT HOLES MUST BE ⅜" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7′ ABOVE GROUND.
6. SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES

SIGN SP-4

OVERLAY PANEL (TYPICAL)

NOTES: SIGN SP-4

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
3. BOLT HOLES MUST BE ⅜" DIAMETER.
4. BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
5. SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP 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

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALBERT K YU	JOCELYN C CHIANG	JC	2/14

FUNCTIONAL SUPERVISOR: SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION DATE PLOTTED => 28-DEC-2015
TIME PLOTTED => 20:00
01-04-16

BORDER LAST REVISED 7/2/2010

USERNAME => s122436
DGN FILE => 72W640me001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1887 | PROJECT NUMBER & PHASE 07130004301

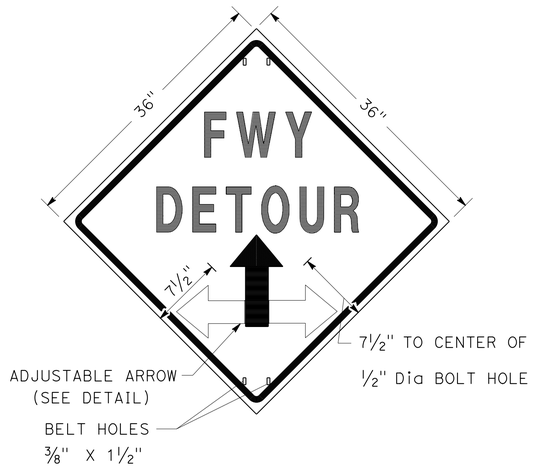
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	4	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

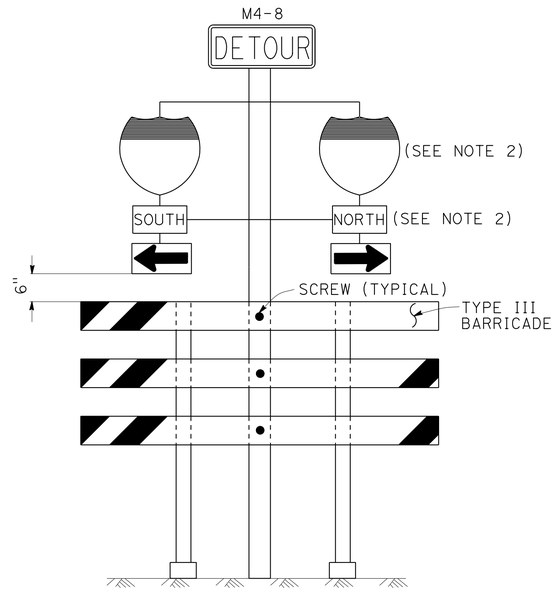
1-4-16
PLANS APPROVAL DATE

ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

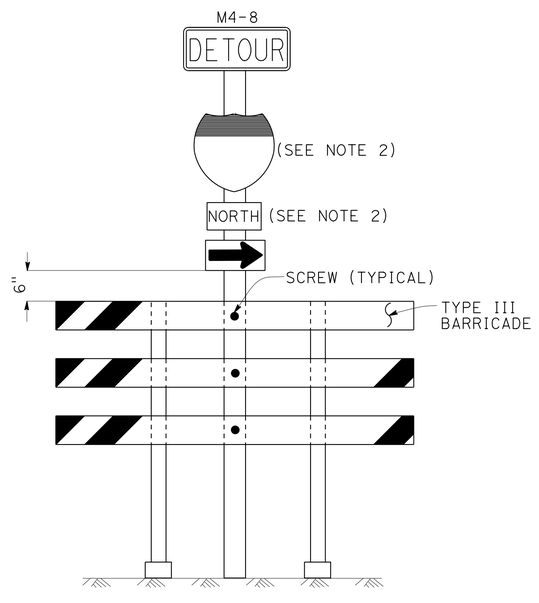
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

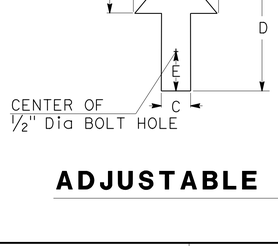
NOTES: SIGN SP-2

1. LETTERS - 6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

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 MARKER [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
6"	3"	2"	8"	1"

ADJUSTABLE ARROW DETAIL

ABBREVIATION

(CA) CALIFORNIA CODE

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
Caltrans® TRAFFIC OPERATIONS

FUNCTIONAL SUPERVISOR: SAM ESQUENAZI
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION: DATE PLOTTED => 28-DEC-2015
01-04-16 TIME PLOTTED => 20:00

BORDER LAST REVISED 7/2/2010 | USERNAME => s122436 | DGN FILE => 72W640me002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07130004301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	5	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALI R. BAMSHAD
No. C48134
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

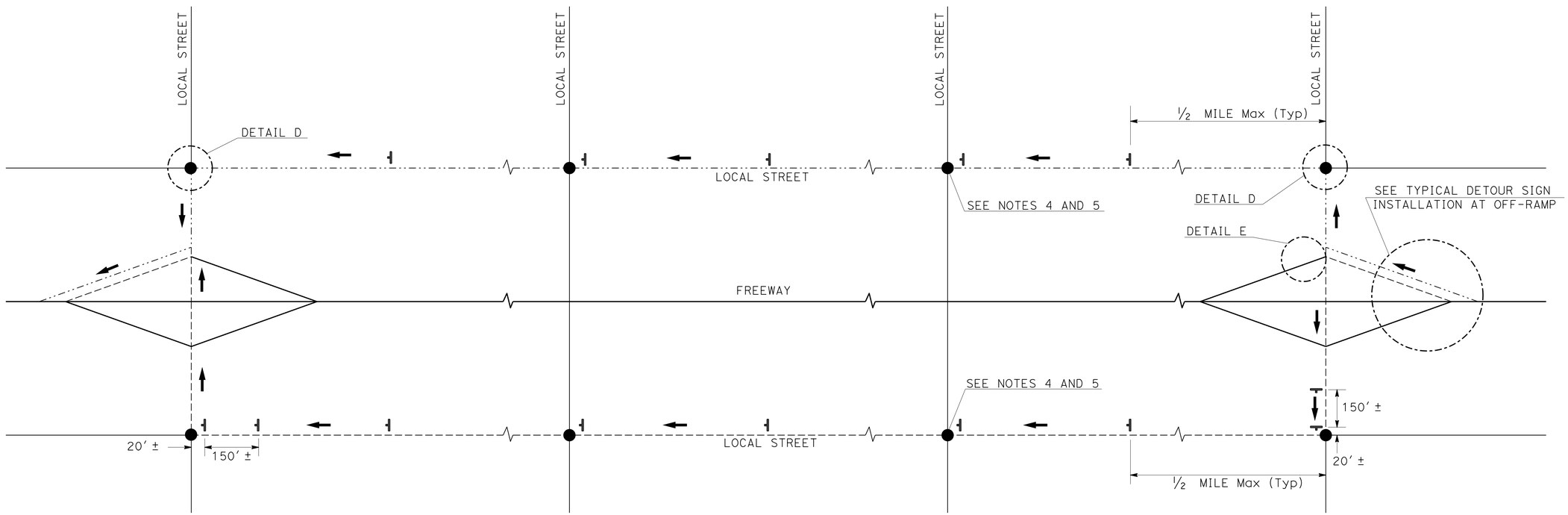
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

- SIGN SP-2
- AND/OR — DESIGNATED DETOUR ROUTE
- DETOUR DIRECTION
- CONTROLLED INTERSECTION

NOTES:

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
5. UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
6. EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE SHEET 1 OF 3

NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

FUNCTIONAL SUPERVISOR: SAM ESQUENAZI
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION DATE PLOTTED => 28-DEC-2015
TIME PLOTTED => 20:00
01-04-16

BORDER LAST REVISED 7/2/2010
USERNAME => s122436
DGN FILE => 72W640me003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07130004301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	6	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALI R. BAMSHAD
No. C48134
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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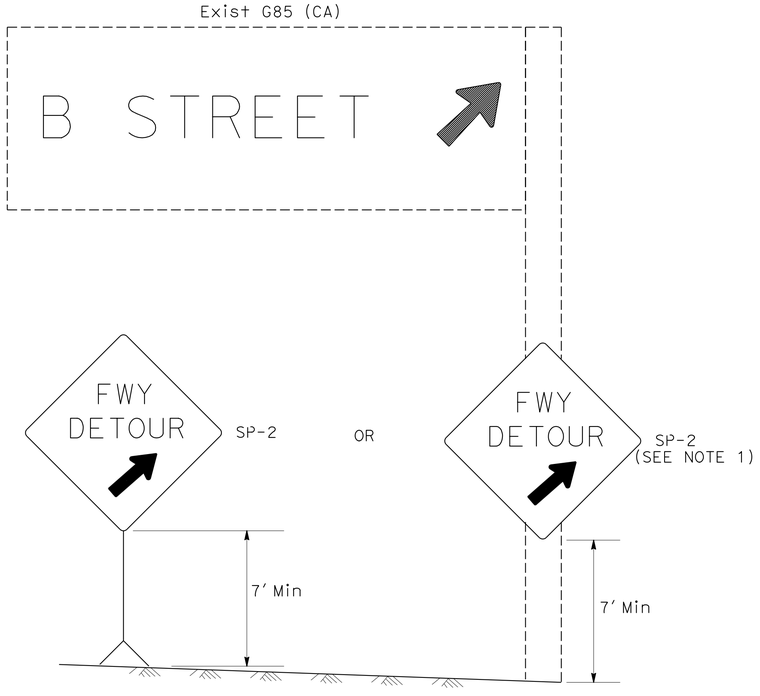
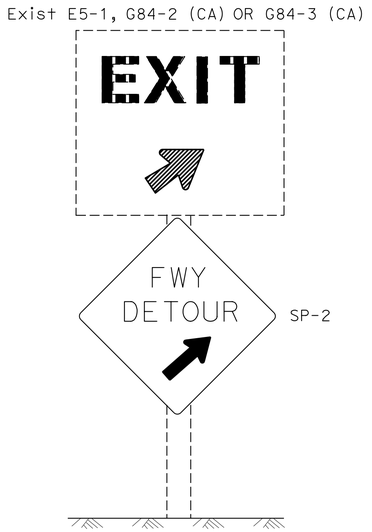
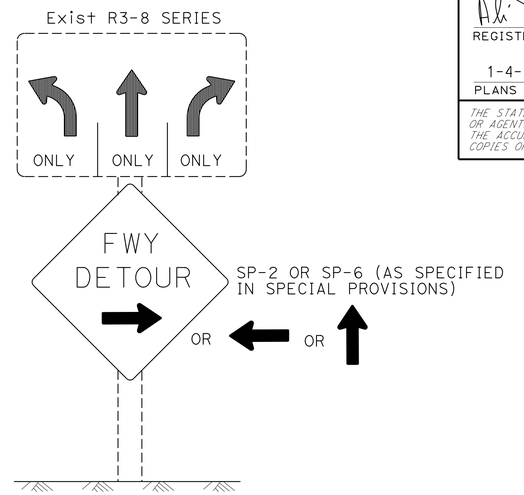


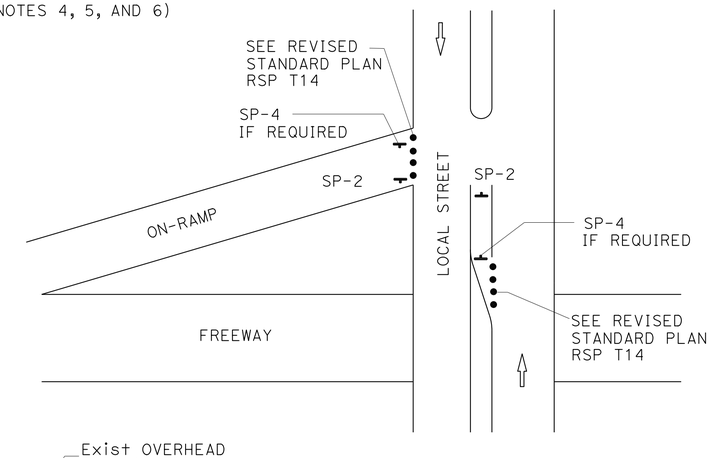
DETAIL A (SEE NOTE 3)



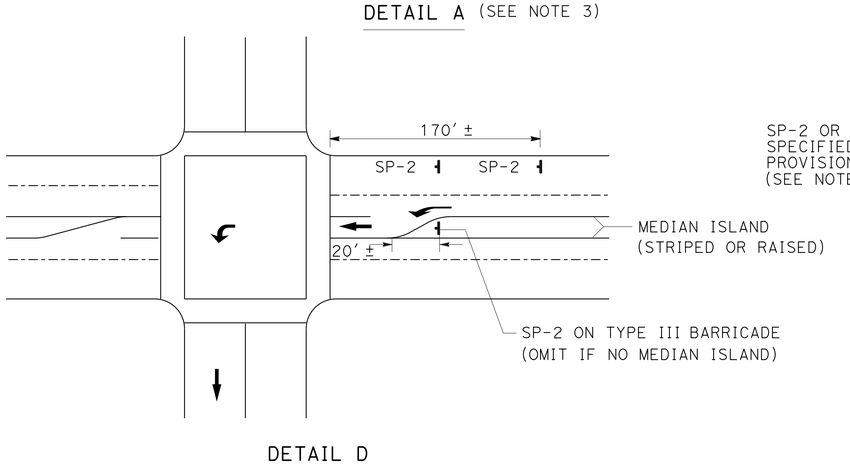
DETAIL B (SEE NOTE 3)



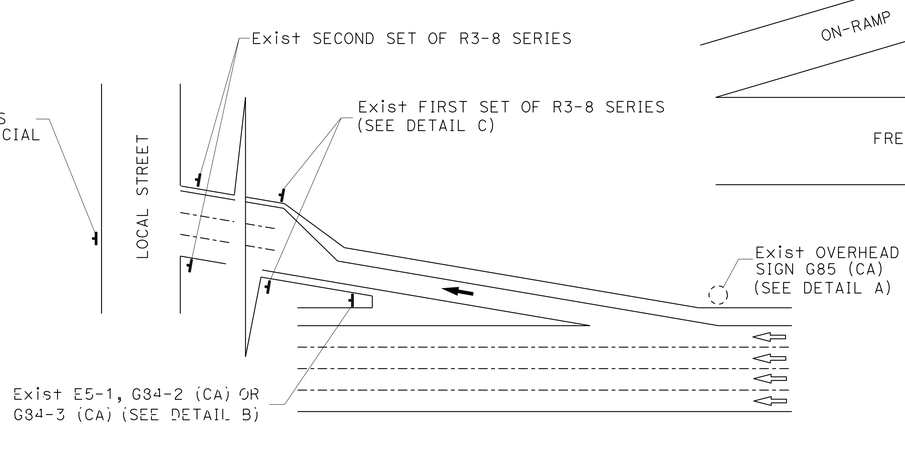
DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL E



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

LEGEND

- • TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- → DETOUR DIRECTION
- ◌ EXISTING OVERHEAD SIGN

NOTES: SIGN SP-2

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
4. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
5. IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS MUST BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
6. EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

SIGN CODE LEGEND

XXYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 3

NO SCALE

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
SAM ESQUENAZI	ALBERT K YU	JOCELYN C CHIANG	JC	2/14

LAST REVISION DATE PLOTTED => 28-DEC-2015
01-04-16 TIME PLOTTED => 20:00

BORDER LAST REVISED 7/2/2010 | USERNAME => s122436 | DGN FILE => 72W640me004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07130004301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	7	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALI R. BAMSHAD
No. C48134
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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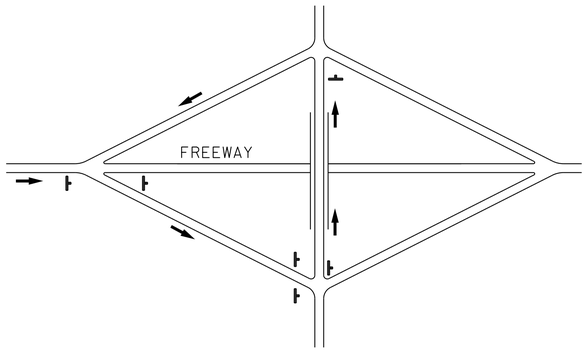
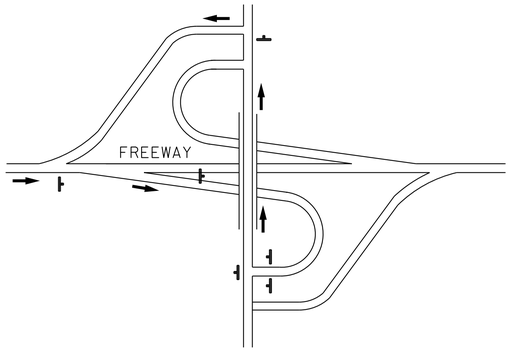


TYPE I



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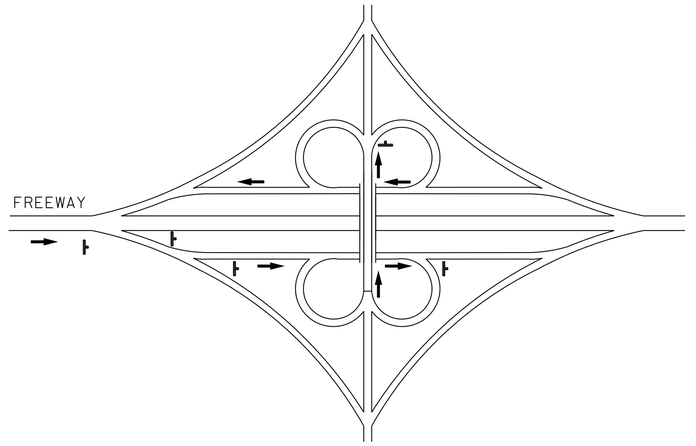

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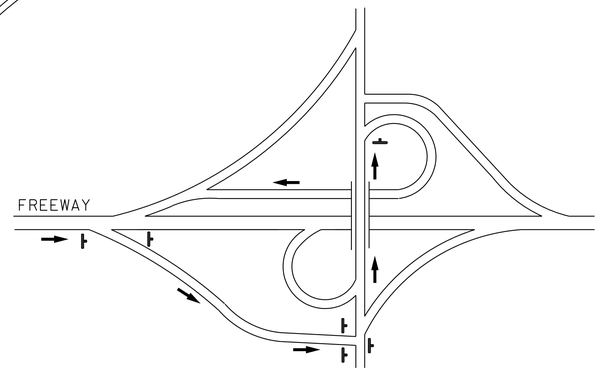

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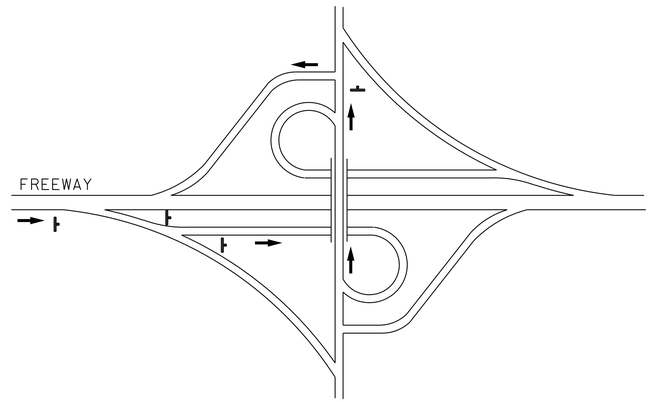

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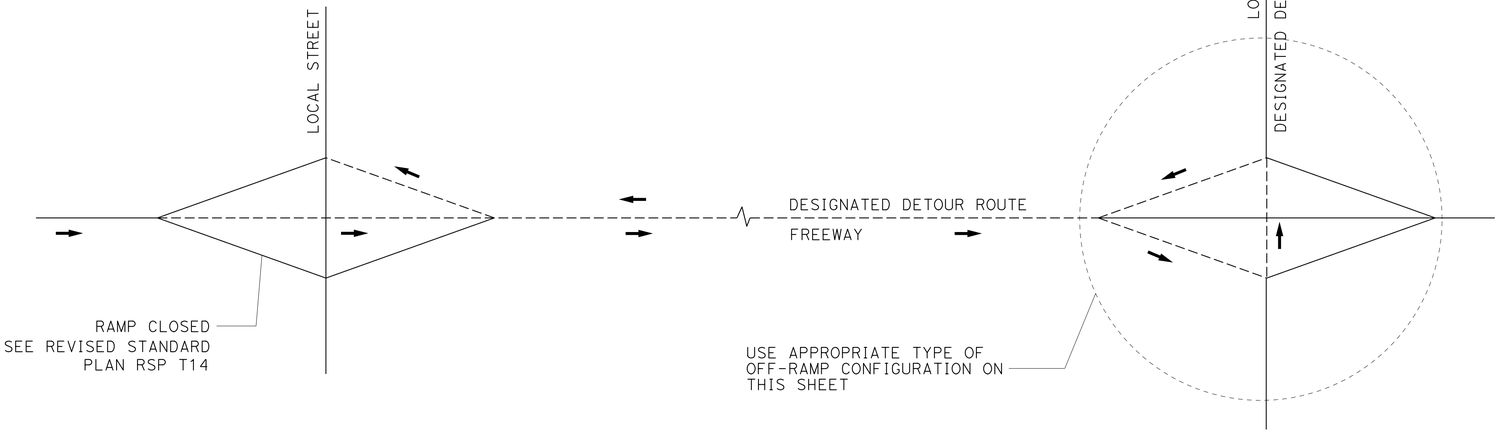


TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

1. FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS MUST BE DETERMINED BY THE ENGINEER.
2. SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

LEGEND

- SIGN SP-2
- DETOUR DIRECTION
- ----- DESIGNATED DETOUR ROUTE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 3 OF 3

NO SCALE

THD-5

CALCULATED-DESIGNED BY
CHECKED BY

ALBERT K YU
JOCELYN C CHIANG

REVISED BY
DATE REVISED

JC
2/14

FUNCTIONAL SUPERVISOR
SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION | DATE PLOTTED => 28-DEC-2015
01-04-16 | TIME PLOTTED => 20:00

BORDER LAST REVISED 7/2/2010 | USERNAME => s122436 | DGN FILE => 72W640me005.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1887 | PROJECT NUMBER & PHASE 07130004301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	8	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ALI R. BAMSHAD
No. C48134
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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

NOTES:

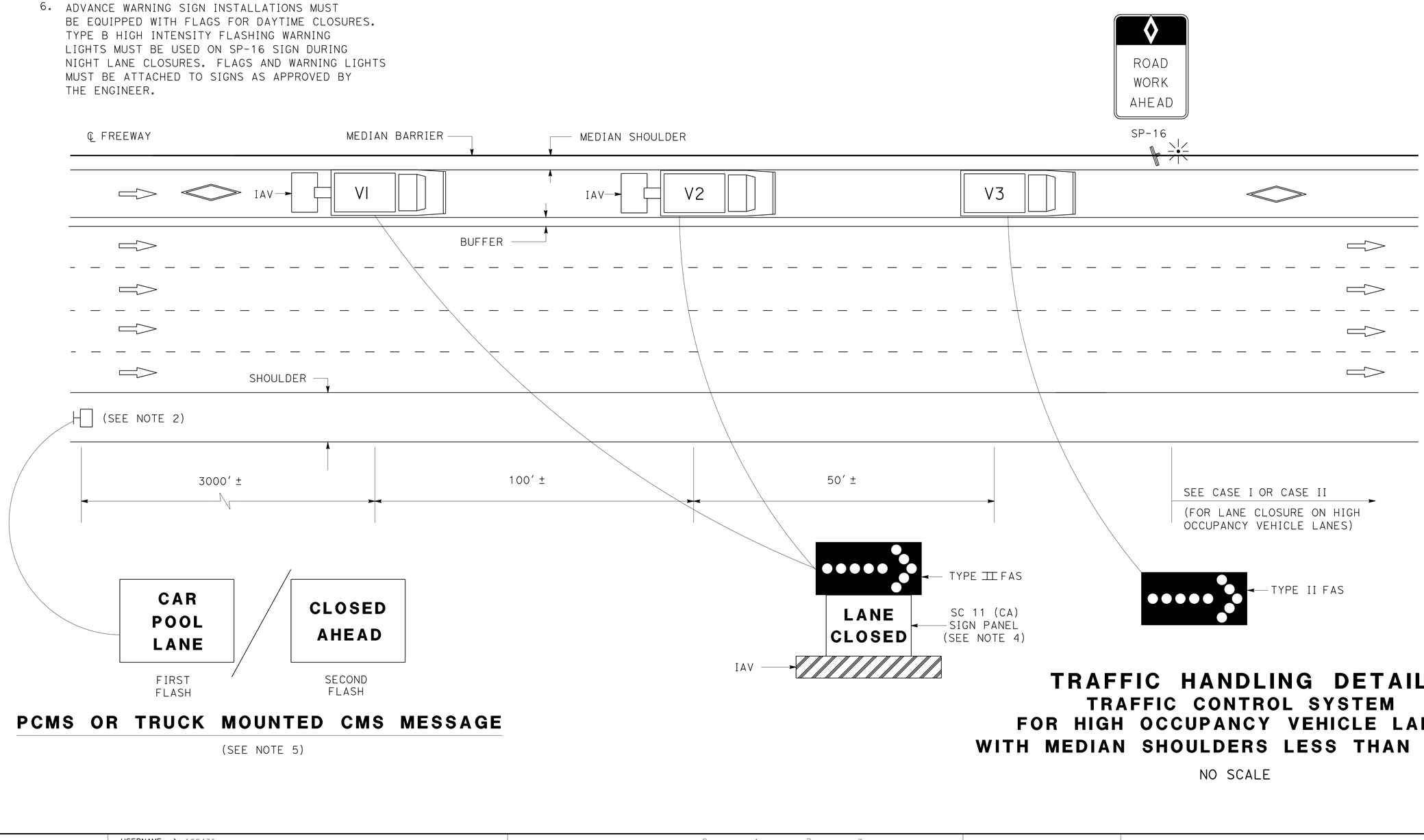
1. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS MUST BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ MUST BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS MUST BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
5. PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.
6. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON SP-16 SIGN DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.

LEGEND

V1, V2	SHADOW VEHICLES
V3	WORK/APPLICATION VEHICLE
	PCMS
	PORTABLE FLASHING BEACON
	TEMPORARY TRAFFIC CONTROL SIGN
	FLASHING ARROW SIGN (FAS)

ABBREVIATIONS

IAV	IMPACT ATTENUATOR VEHICLE
(CA)	CALIFORNIA CODE
CHP	CALIFORNIA HIGHWAY PATROL



PCMS OR TRUCK MOUNTED CMS MESSAGE

(SEE NOTE 5)

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES WITH MEDIAN SHOULDERS LESS THAN 8 FEET

NO SCALE

THD-6

REVISED BY	DATE REVISED
JC	2/14

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

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UNIT 1887
PROJECT NUMBER & PHASE 07130004301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	9	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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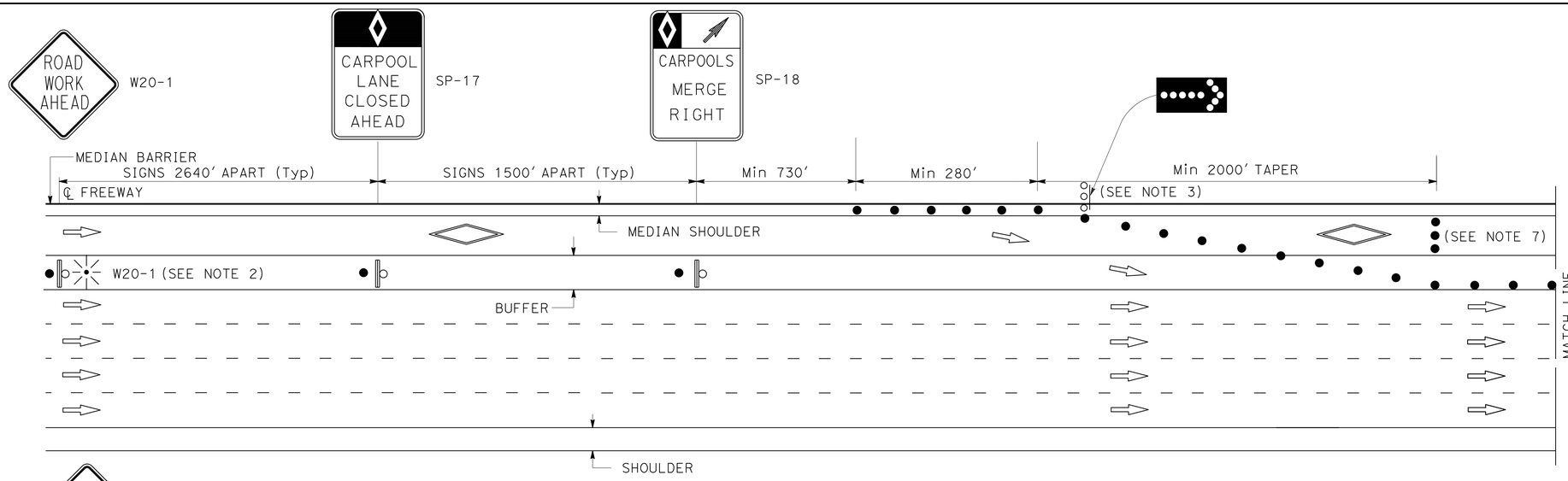

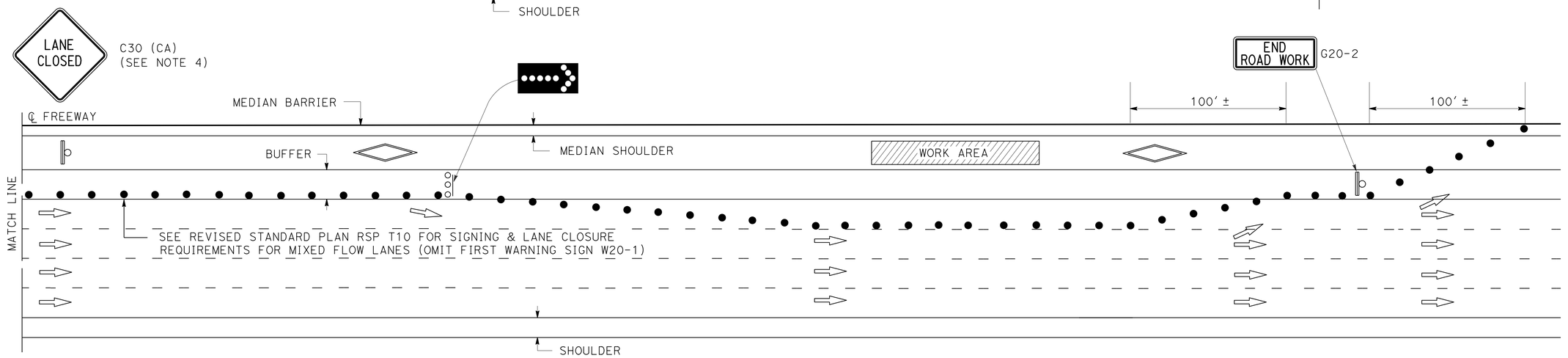

NOTES:

1. AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON W20-1 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN MUST BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURES.
5. A MINIMUM 1500' OF SIGHT DISTANCE MUST BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING FLASHING ARROW SIGNS. LANE CLOSURES MUST NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES MUST BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. SIGNS SP-17, SP-18, AND C30 (CA) MUST BE BLACK ON ORANGE BACKGROUND. DIAMONDS ON SIGNS MUST BE WHITE.
9. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN A TAPER AND 100' ON TANGENT.

LEGEND

- TRAFFIC CONE
- PORTABLE FLASHING BEACON
- FLASHING ARROW SIGN (FAS)
- TEMPORARY TRAFFIC CONTROL SIGN
- FAS SUPPORT OR TRAILER

SIGN PANEL

SIZE (Min)

W20-1 48" X 48"
SP-17 36" X 54"
SP-18 36" X 48"
C30 (CA) 30" X 30"
G20-2 48" X 24"

ABBREVIATIONS

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR ROUTE 10 (EL MONTE BUSWAY)
AT NON-INGRESS/EGRESS AREAS
CASE I

NO SCALE

THD-7

REVISED BY	DATE REVISED
JC	2/14

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION DATE PLOTTED => 28-DEC-2015
01-04-16 TIME PLOTTED => 20:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	10	35

Ali Bamshad 9-29-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

ALI R. BAMSHAD No. C48134 Exp. 6-30-16 CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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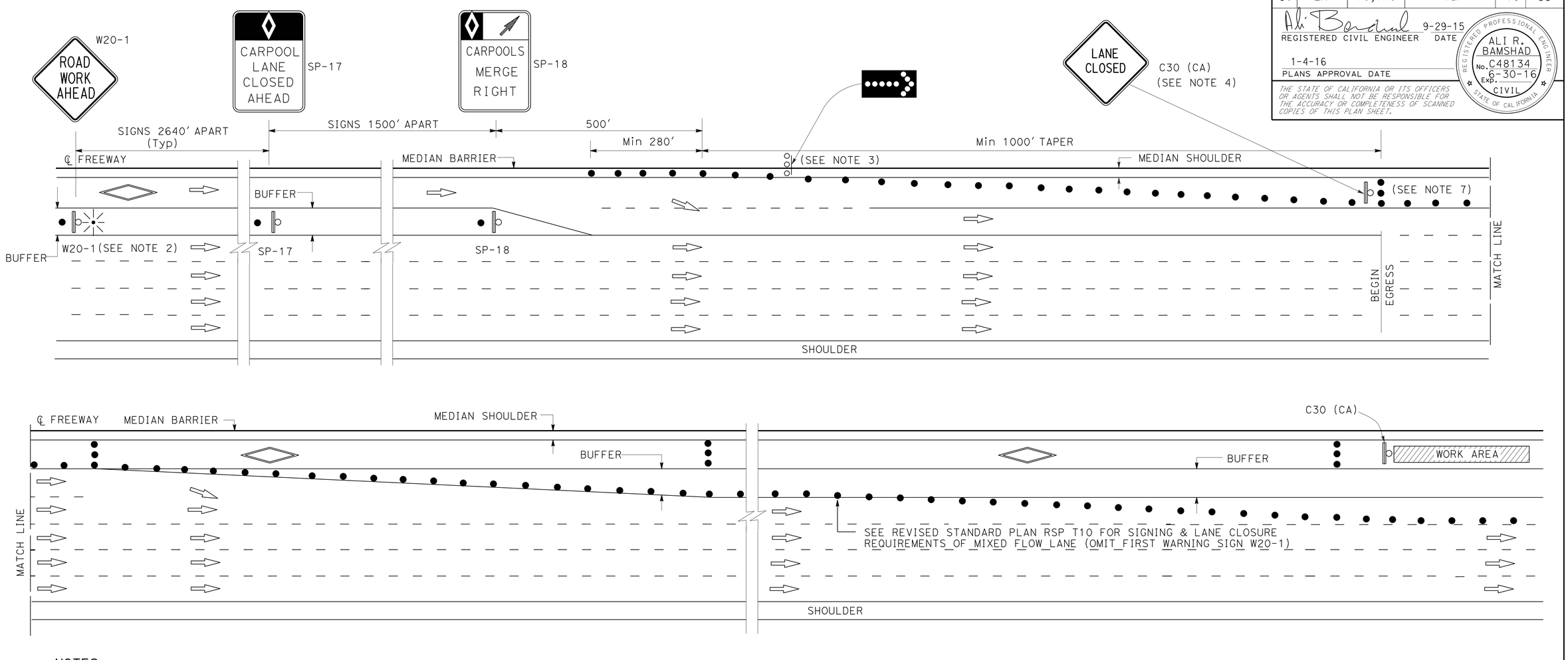

NOTES:

1. AT LEAST ONE PERSON MUST BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS MUST BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS MUST BE USED ON W20-1 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS MUST BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
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9. THE MAXIMUM SPACING BETWEEN CONES MUST BE APPROXIMATELY 50' IN A TAPER AND 100' ON TANGENT.

LEGEND

- TRAFFIC CONE
- PORTABLE FLASHING BEACON
- FLASHING ARROW SIGN (FAS)
- TEMPORARY TRAFFIC CONTROL SIGN
- FAS SUPPORT OR TRAILER

SIGN PANEL

SIZE (MIN)

W20-1 48" X 48"
SP-17 36" X 54"
SP-18 36" X 48"
C30 (CA) 30" X 30"

ABBREVIATIONS

(CA) CALIFORNIA CODE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR ROUTE 10 (EL MONTE BUSWAY) AND ADJACENT FREEWAY LANES AT EGRESS AREAS
CASE II

NO SCALE

THD-8

REVISED BY	DATE REVISED
JC	2/14

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: SAM ESQUENAZI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

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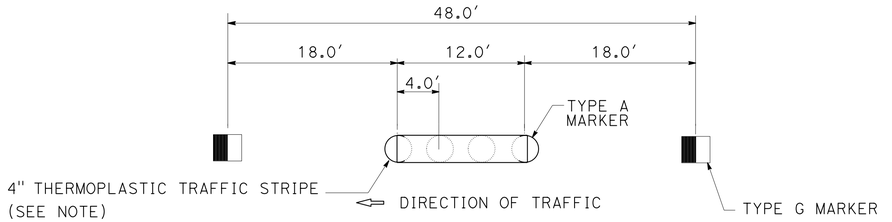
DGN FILE => 72W640me008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1887
PROJECT NUMBER & PHASE 07130004301

NOTE:

1. APPLY 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS FOR DETAIL 13 (MODIFIED).



DETAIL 13 (MODIFIED)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	11	35

Gehan Attallah 12-10-15
REGISTERED CIVIL ENGINEER DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — GEHAN ATTALLAH No. 79698 Exp. 9-30-16 CIVIL — STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

					THERMOPLASTIC TRAFFIC STRIPE																	
					Det 8	Det 13 (Mod)	Det 40	Det 25A	Det 27B	Det 27	Det 28	Det 38A	THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER (NON-REFLECTIVE)	PAVEMENT MARKER (RETROREFLECTIVE)				REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	REMOVE THERMOPLASTIC PAVEMENT MARKING
					4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 36-12)	4" WHITE (BROKEN 6-1)	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID WHITE	4" SOLID YELLOW	8" SOLID WHITE		TYPE A	TYPE G	TYPE H	TYPE C				
LOCATIONS OF CONSTRUCTION					LF								SQFT	EA					EA	LF	LF	SQFT
Loc No. (X)	ROUTE	BRIDGE NAME	PM	BRIDGE No.																		
1		HERBERT AVENUE ON-RAMP SPUR	20.20	53-2039K					450	900			180			20			20	450	900	180
2		EASTERN Ave OC	20.85	53-0123	900		100				900	1,200	180							1,600	900	180
3		EASTERN AVENUE OC ON RAMP	20.90	53-2056S	420					840		50	128		18	20			38	578	840	128
4		CAMPUS ROAD OC ON RAMP	20.95	53-2055K		270		270	270				48	24	7	14			45	340	270	48
5		CAMPUS ROAD OC	21.00	53-2054	1,000						1,500	1,000	300							1,295	1,500	300
6		WBND BUSWAY OH	21.07	53-2540L				870	870				450			40			40	870	870	450
7	10	EBND BUSWAY OC	21.17	53-2539R				50	50				100			3			3	50	50	100
8		NW CONNECTOR OC (RAMP)	21.22	53-1444K				110	110				250			7			7	110	110	250
9		RAMONA STREET UC (E10-S710)	21.33	53-1459G		155		155	155					16		9	8		33	203	155	
10		STATE COLLEGE EB BUSWAY OC	21.36	53-2538R				60	60			60	30			4			4	120	60	30
11		STATE COLLEGE EB BUSWAY OC	21.40	53-2543R				180	180				80			10			10	180	180	80
12		E10-N710 BUSWAY CONNECTOR OC	21.45	53-2542G				450	450				240			22			22	450	450	240
15		ATLANTIC Blvd UC	23.33	53-0648K				85	85							5			5	85	85	
SUBTOTAL					2,320	425	100	2,230	3,100	1,740	2,400	2,310	1,986	40	25	154	8		227	6,331	6,370	1,986
TOTAL					2,320	425	100	9,470				2,310	1,986	40	187				227	6,331	6,370	1,986

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY | DATE REVISED
GEHAN ATTALAH | LARRY WIERING
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | LARRY WIERING
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 01-04-15 | DATE PLOTTED => 23-DEC-2015 | TIME PLOTTED => 13:54

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M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	12	35

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Grace M. Tsushima — No. C49814 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 1-4-16

UNIT OF MEASUREMENT SYMBOLS:

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

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

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

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	13	35

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

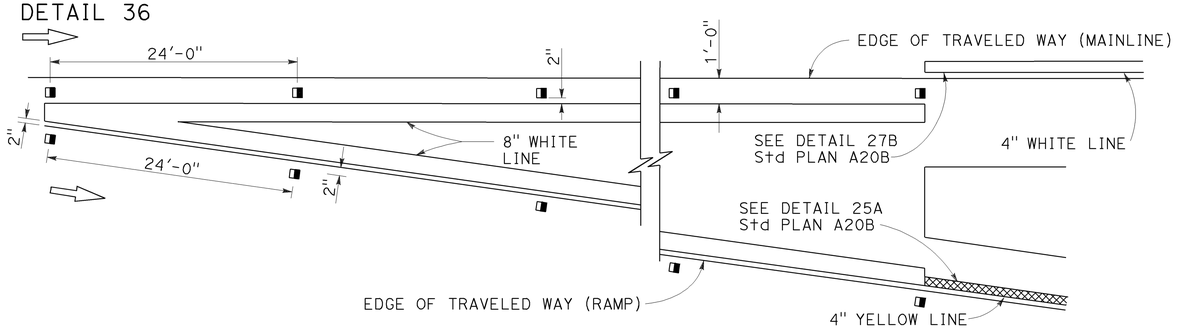
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-15
CIVIL
STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 1-4-16

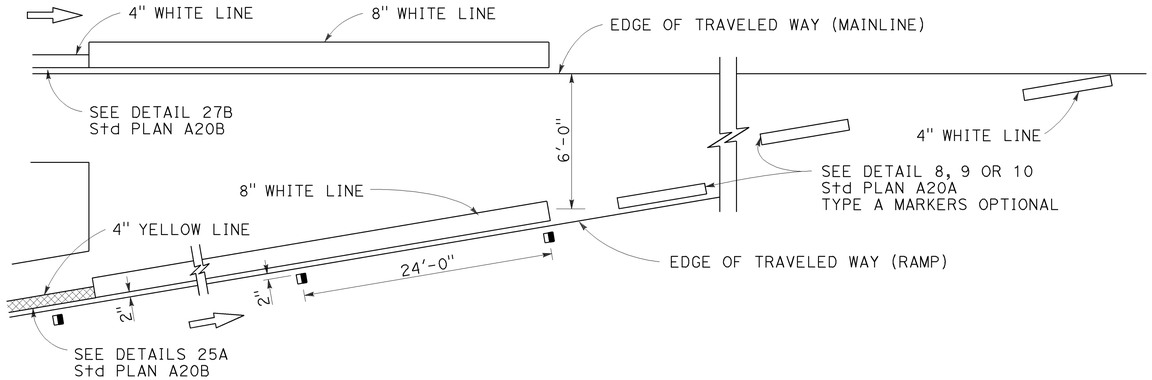
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



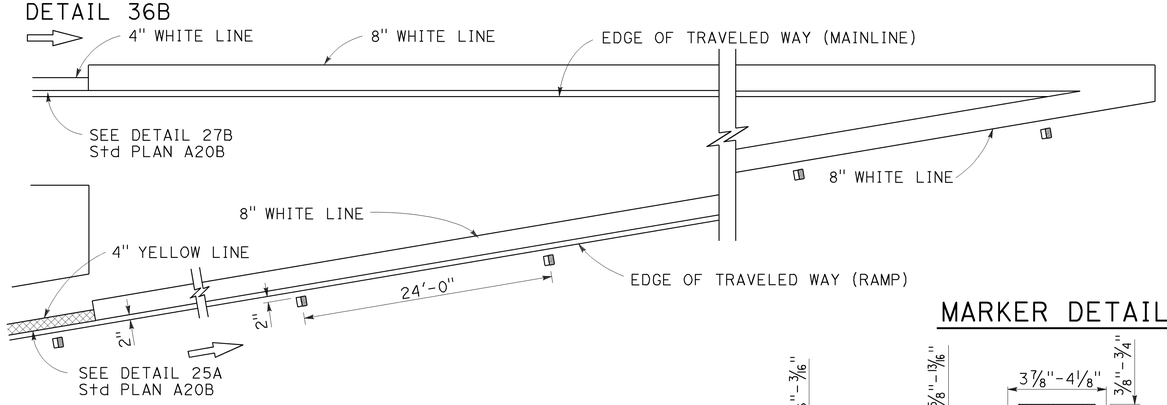
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



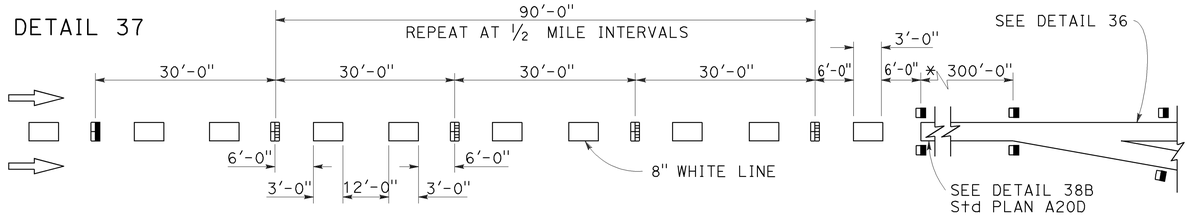
ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

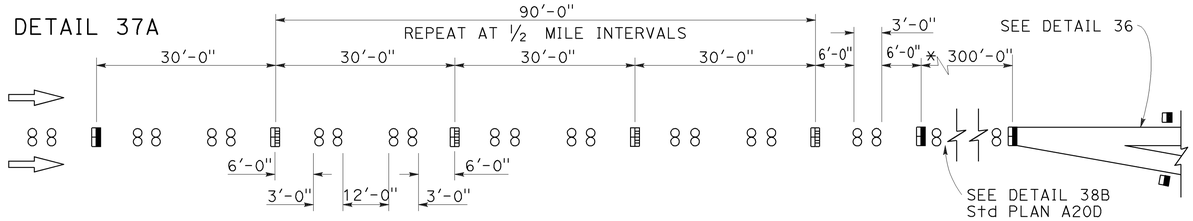


LANE DROP AT EXIT RAMPS

DETAIL 37



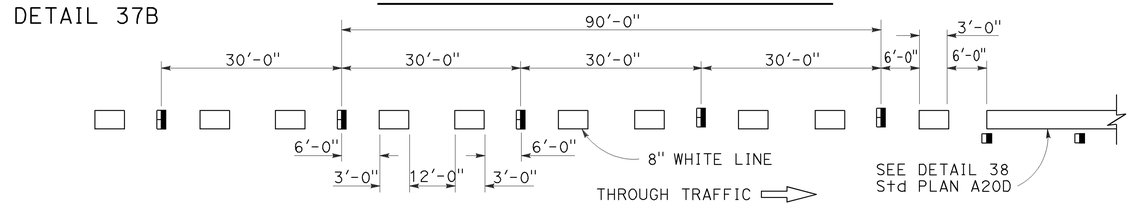
DETAIL 37A



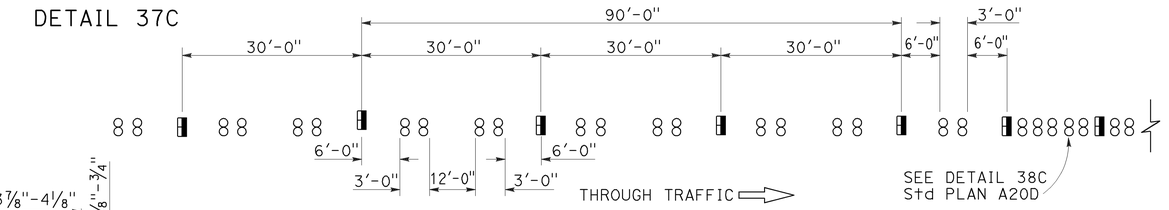
* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS

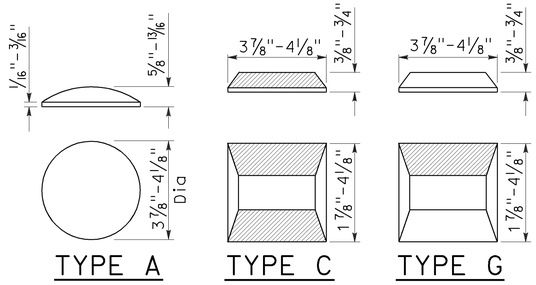
DETAIL 37B



DETAIL 37C



MARKER DETAILS



LEGEND:

MARKERS

- ○ TYPE A WHITE NON-REFLECTIVE
- ▣ TYPE C RED-CLEAR RETROREFLECTIVE
- ◨ TYPE G ONE-WAY CLEAR RETROREFLECTIVE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

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

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

4-29-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	14	35

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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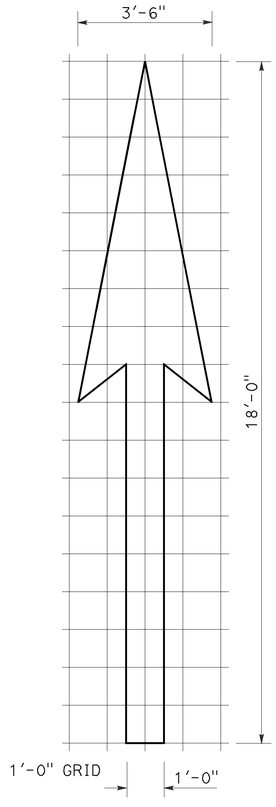
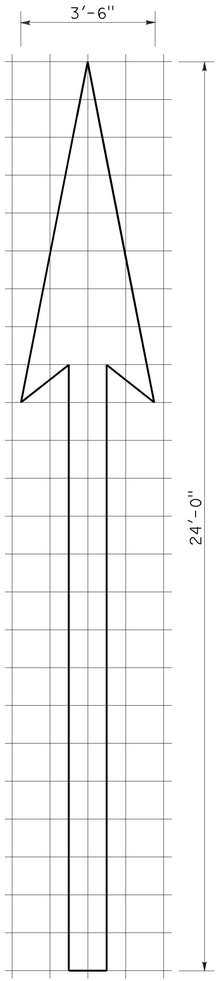
TO ACCOMPANY PLANS DATED 1-4-16



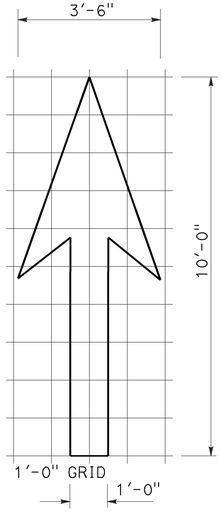
A=25 ft²

TYPE I 18'-0" ARROW



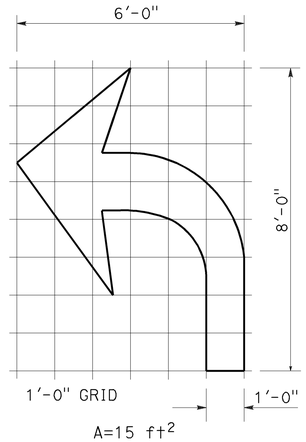
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

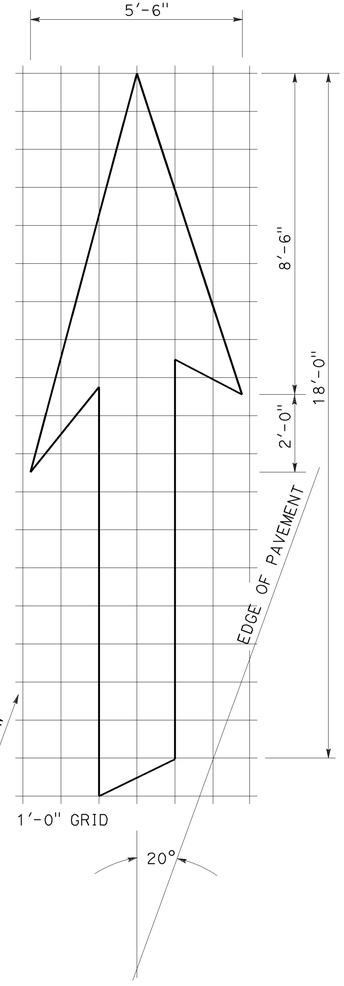
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

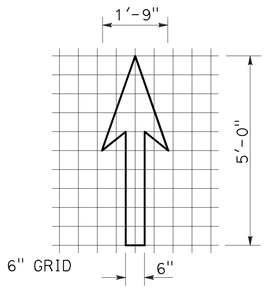
(For Type IV (R) arrow, use mirror image)



A=42 ft²

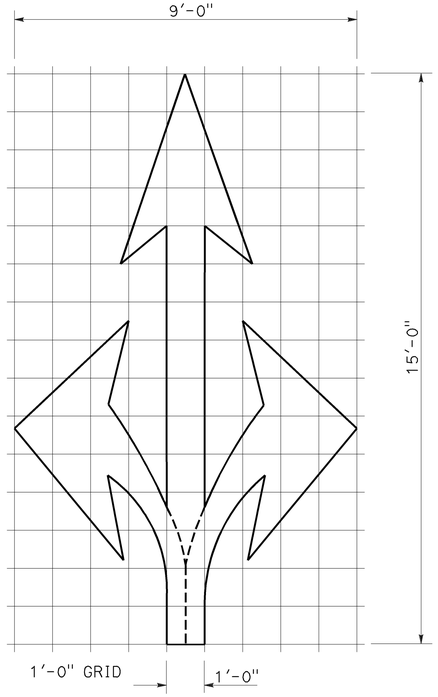
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



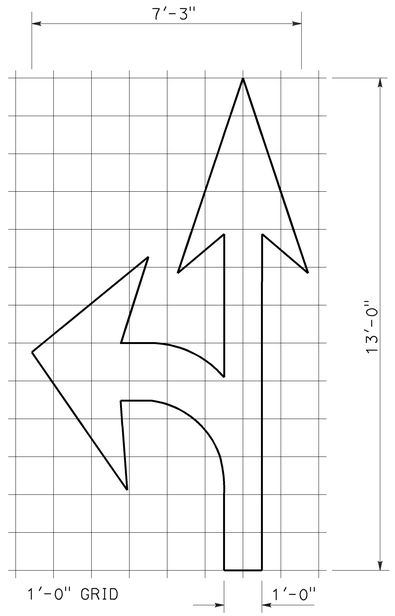
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

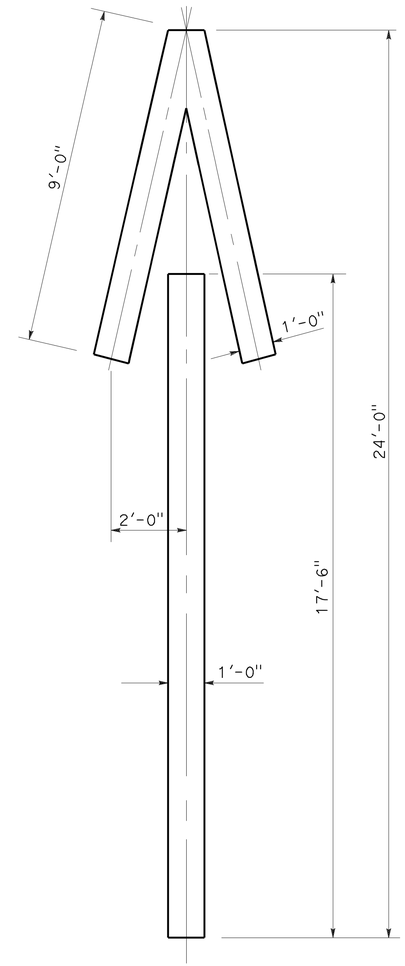
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

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

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	15	35

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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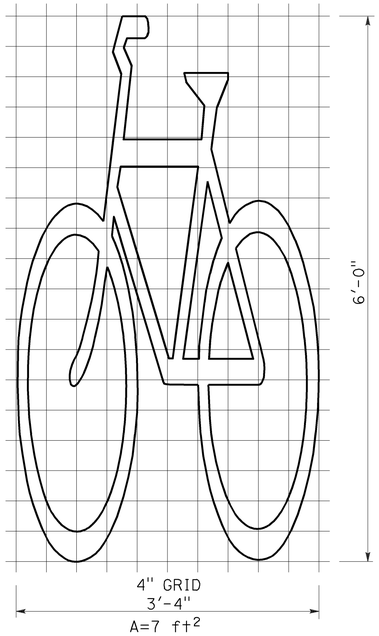
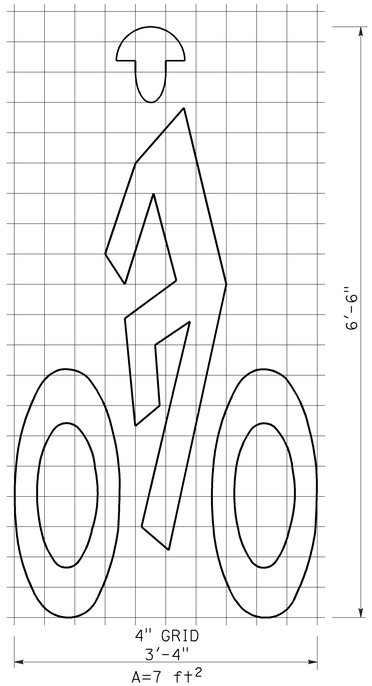
NOTE: TO ACCOMPANY PLANS DATED 1-4-16

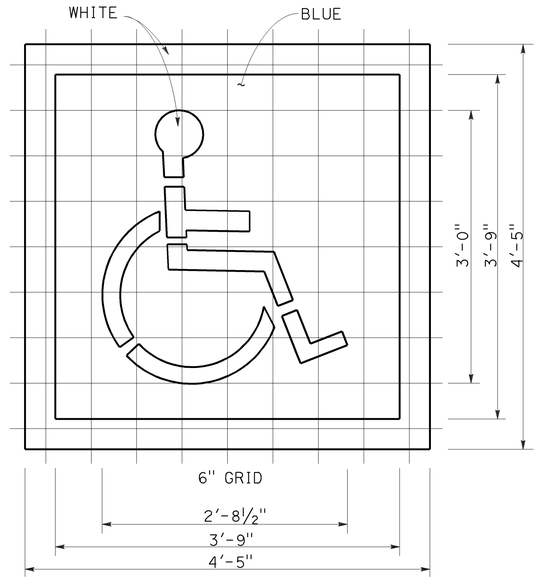
Minor variations in dimensions may be accepted by the Engineer.



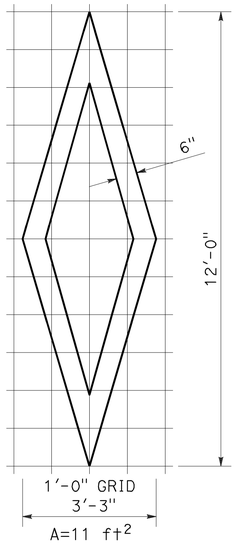
BIKE LANE SYMBOL WITHOUT PERSON



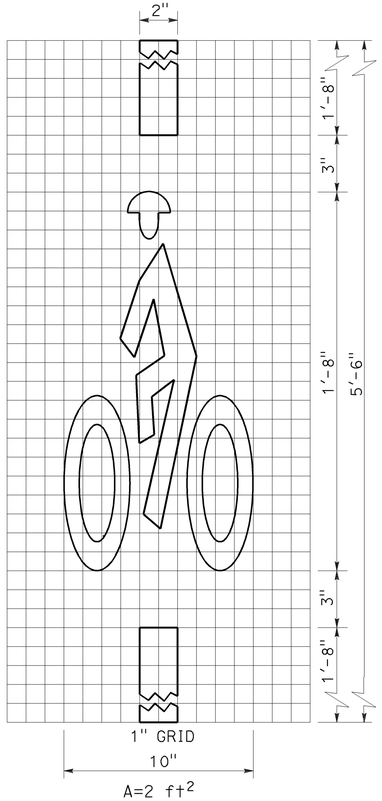
BIKE LANE SYMBOL WITH PERSON



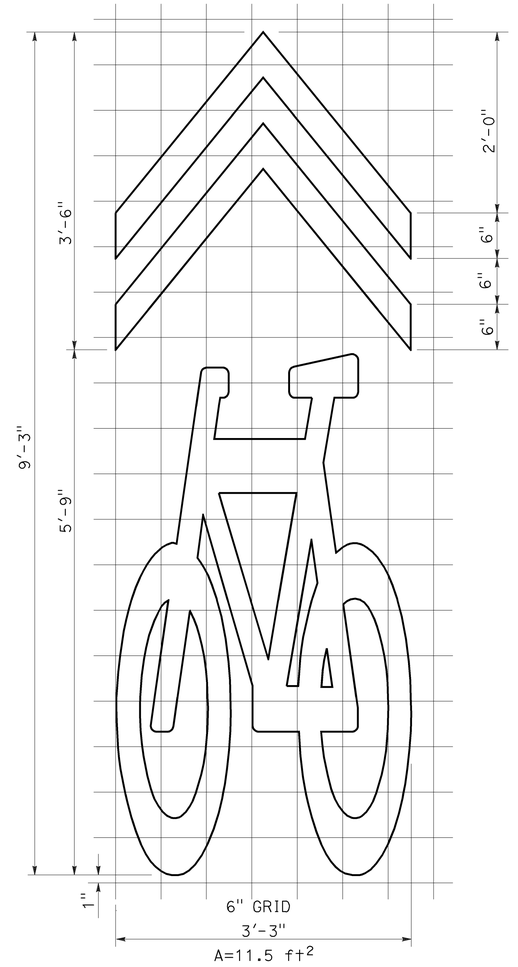
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



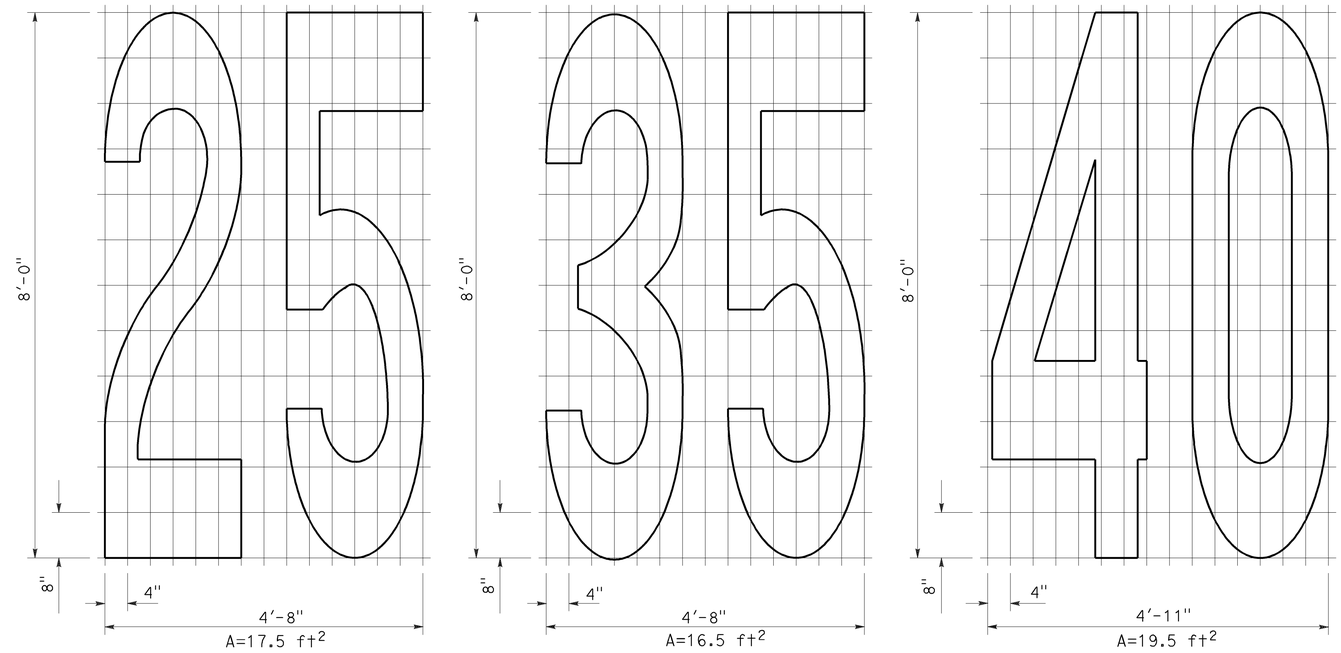
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	16	35

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

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

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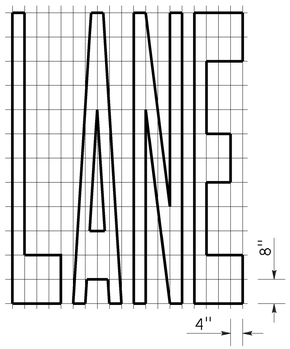
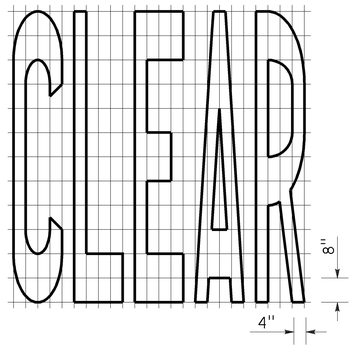
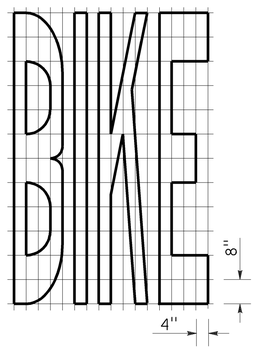
TO ACCOMPANY PLANS DATED 1-4-16



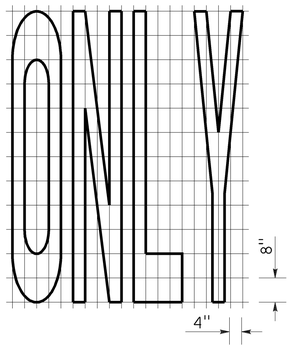
A=24 ft²



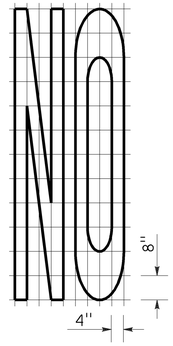
A=27 ft²



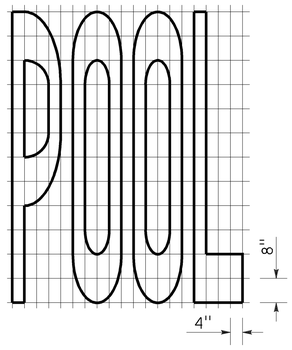
A=21 ft²



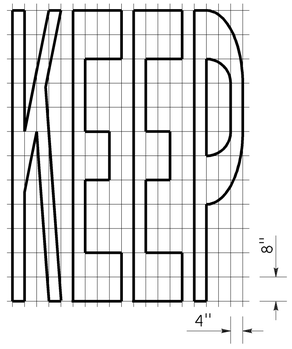
A=22 ft²



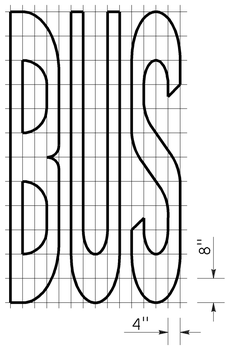
A=14 ft²



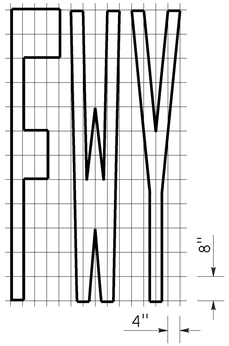
A=23 ft²



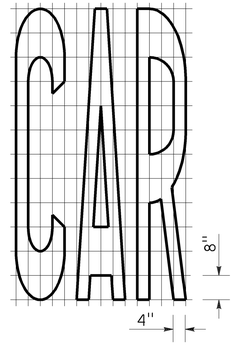
A=24 ft²



A=20 ft²

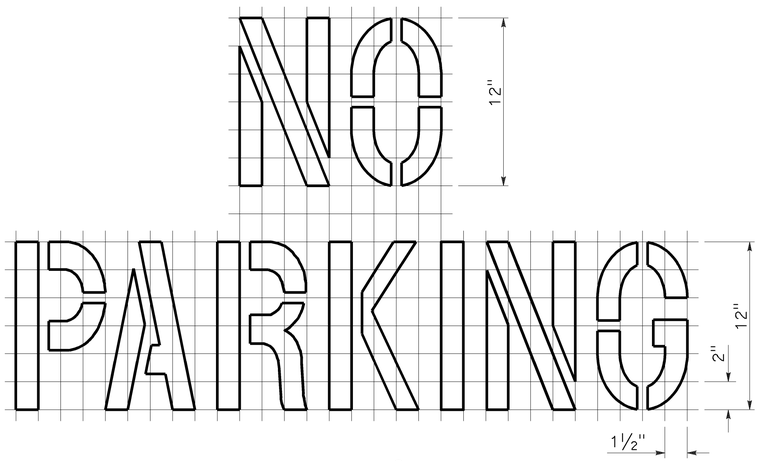


A=16 ft²

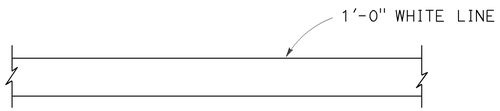


A=17 ft²

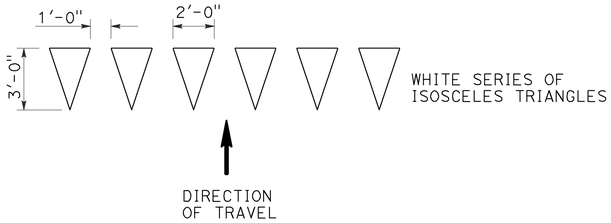
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

NO SCALE

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

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	17	35

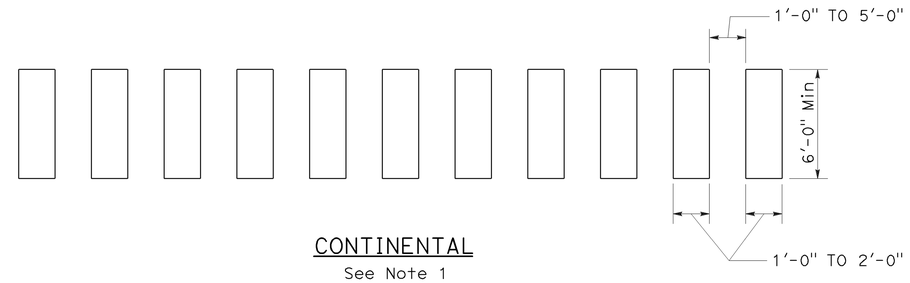
Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

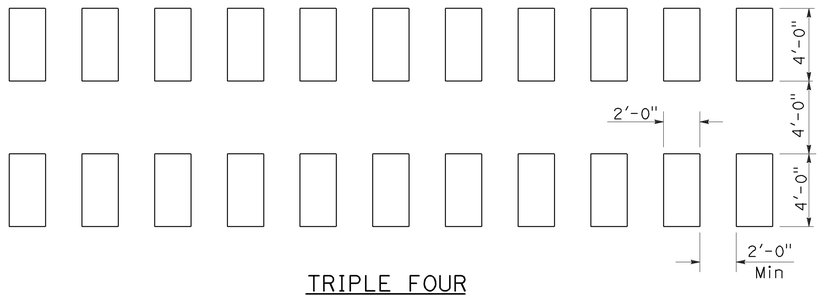
REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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

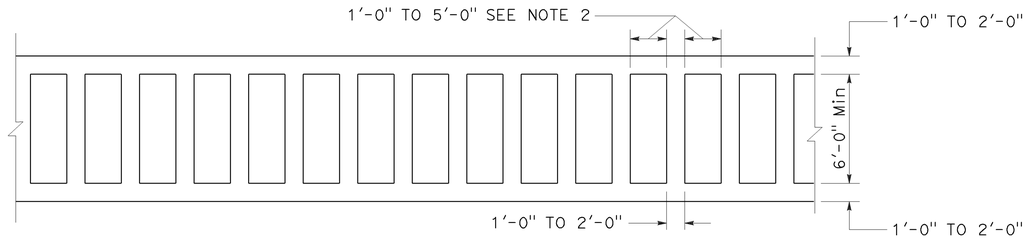
TO ACCOMPANY PLANS DATED 1-4-16



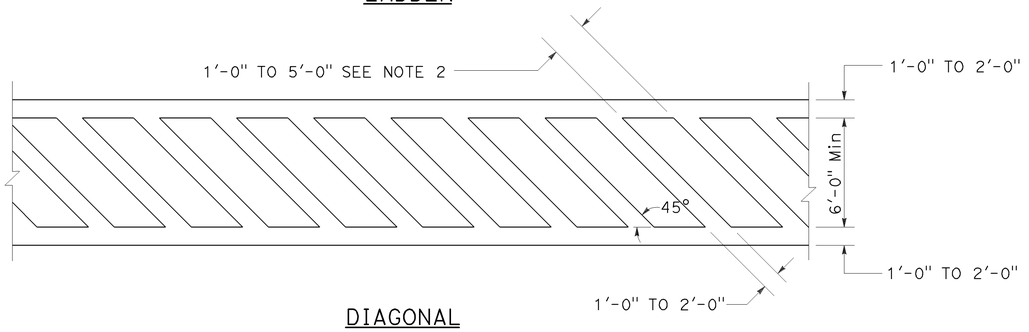
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

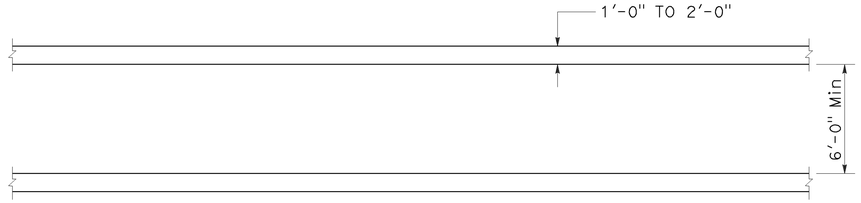


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

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



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

2010 REVISED STANDARD PLAN RSP A24F

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	18	35

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 1-4-16

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

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

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

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

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

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

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

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

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

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

2010 REVISED STANDARD PLAN RSP T9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

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

REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	19	35

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 1-4-16

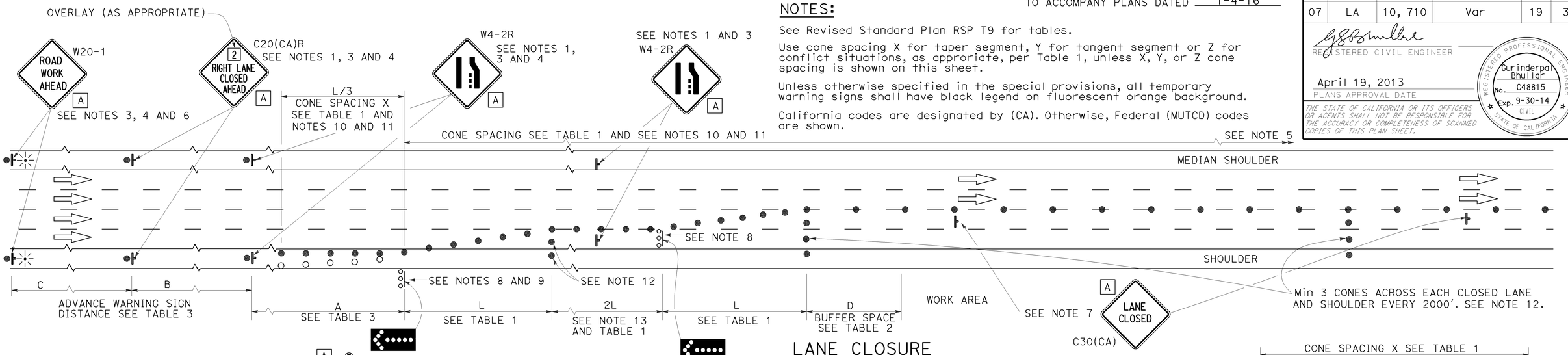
NOTES:

See Revised Standard Plan RSP T9 for tables.

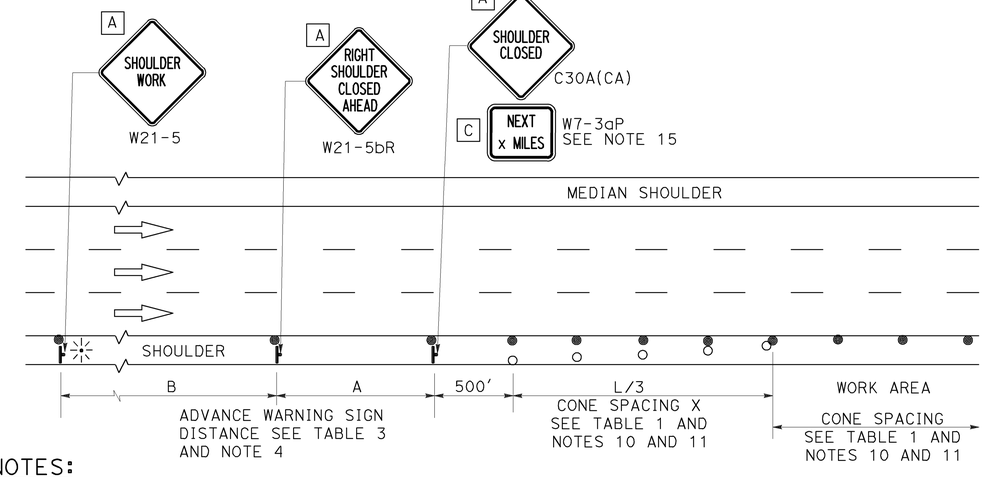
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

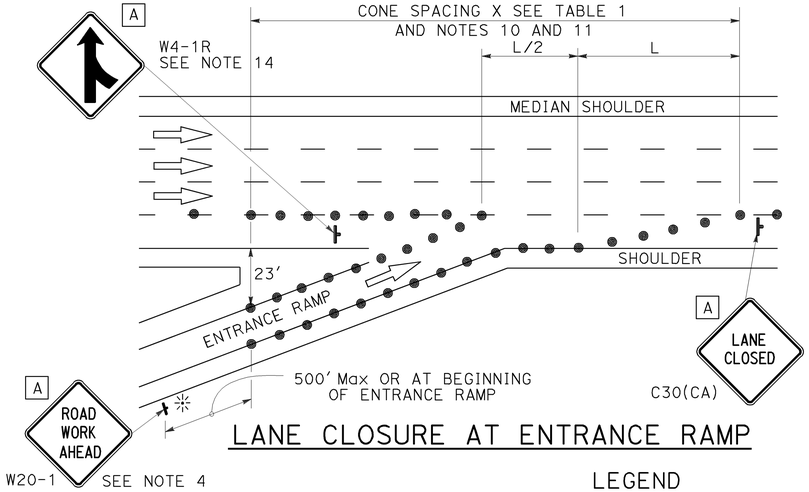
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



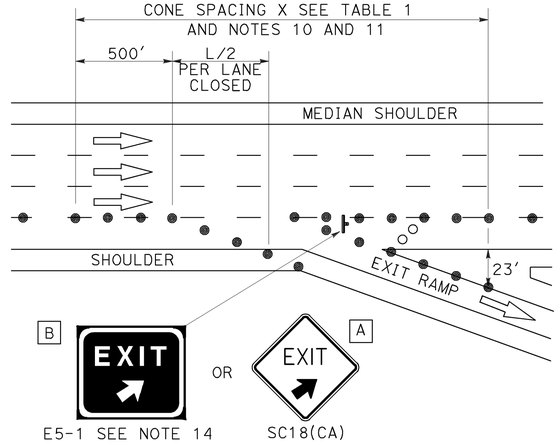
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT___MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

TO ACCOMPANY PLANS DATED 1-4-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	20	35

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

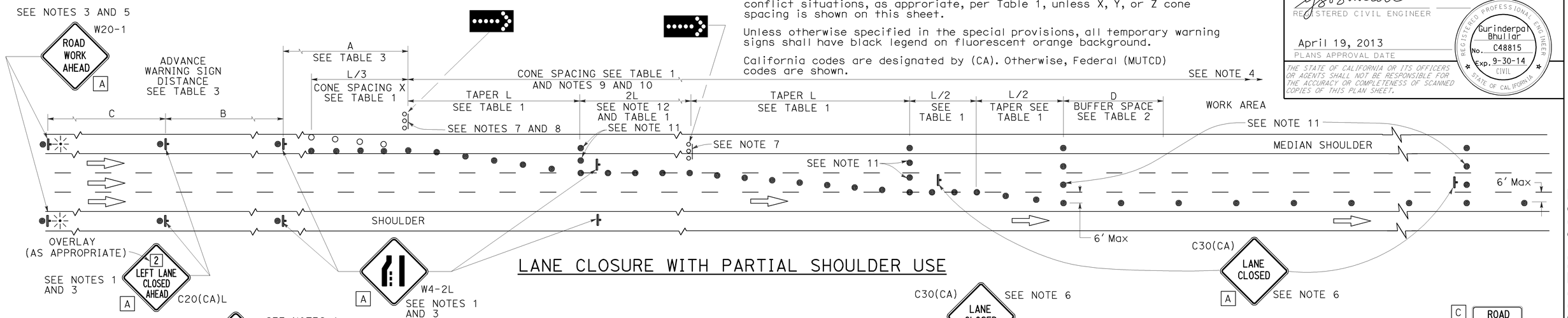
NOTES:

See Revised Standard Plan RSP T9 for tables.

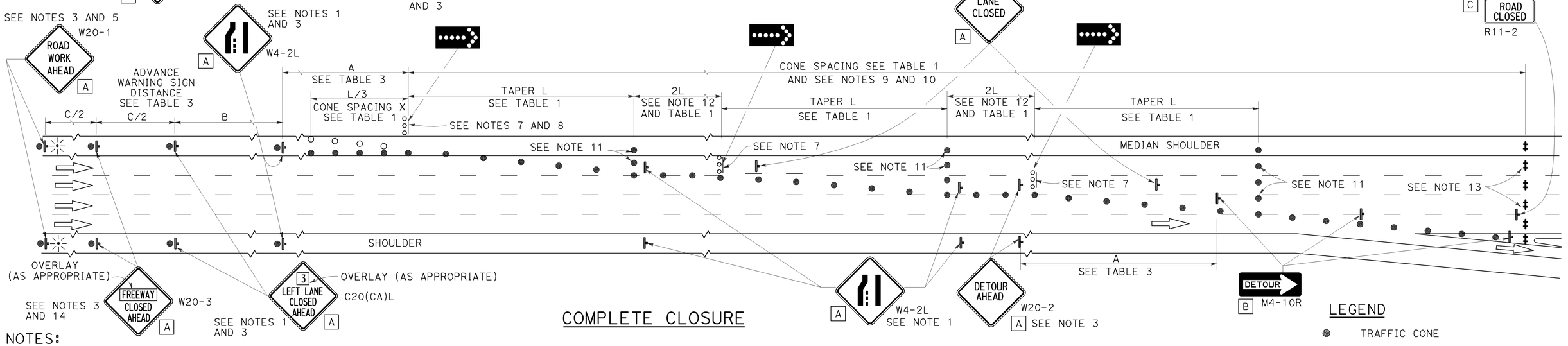
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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



LANE CLOSURE WITH PARTIAL SHOULDER USE



COMPLETE CLOSURE

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. 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.
4. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
6. Place a C30(CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
8. 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 the top of crest vertical curve or on a horizontal curve.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. 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 With Partial Shoulder Use" 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.
12. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
13. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	21	35

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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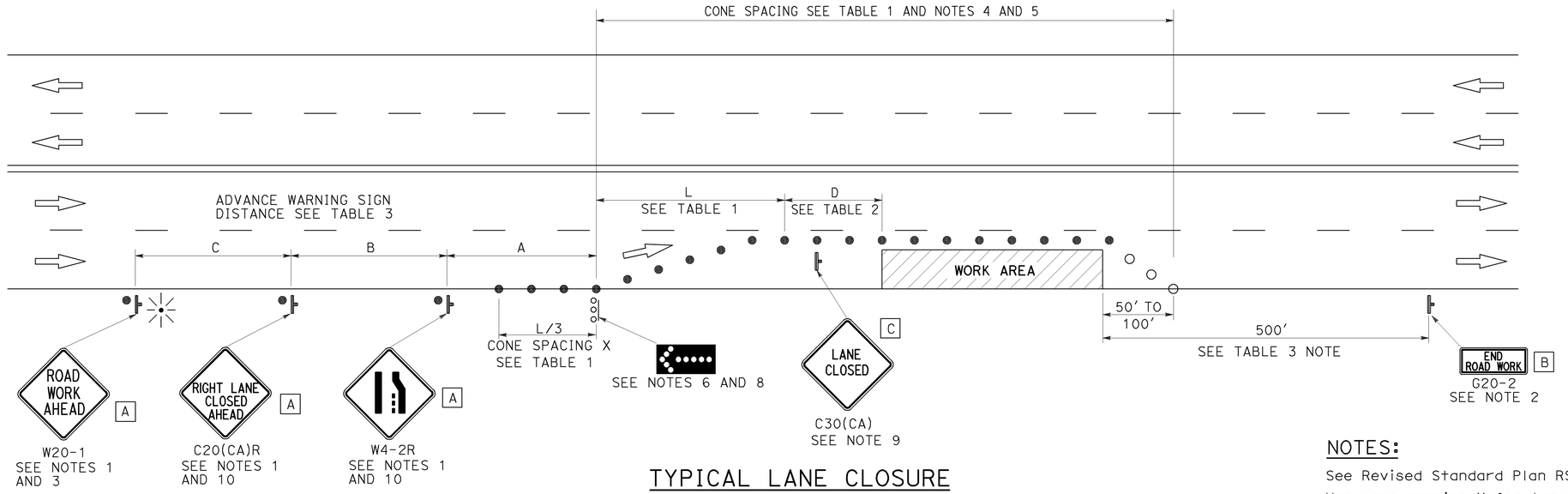
TO ACCOMPANY PLANS DATED 1-4-16



TYPICAL LANE CLOSURE

NOTES:

1. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "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.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
8. 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 the top of crest vertical curve or on a horizontal curve.
9. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

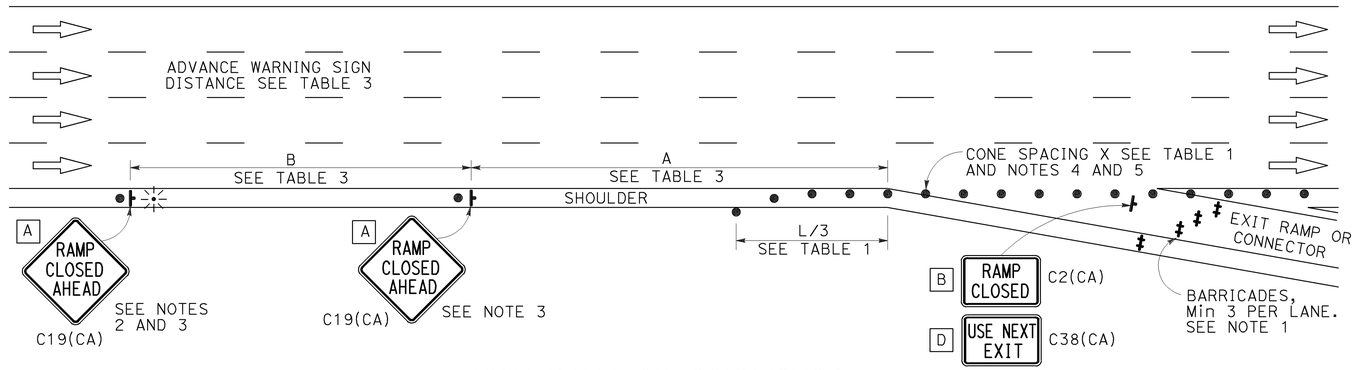
RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

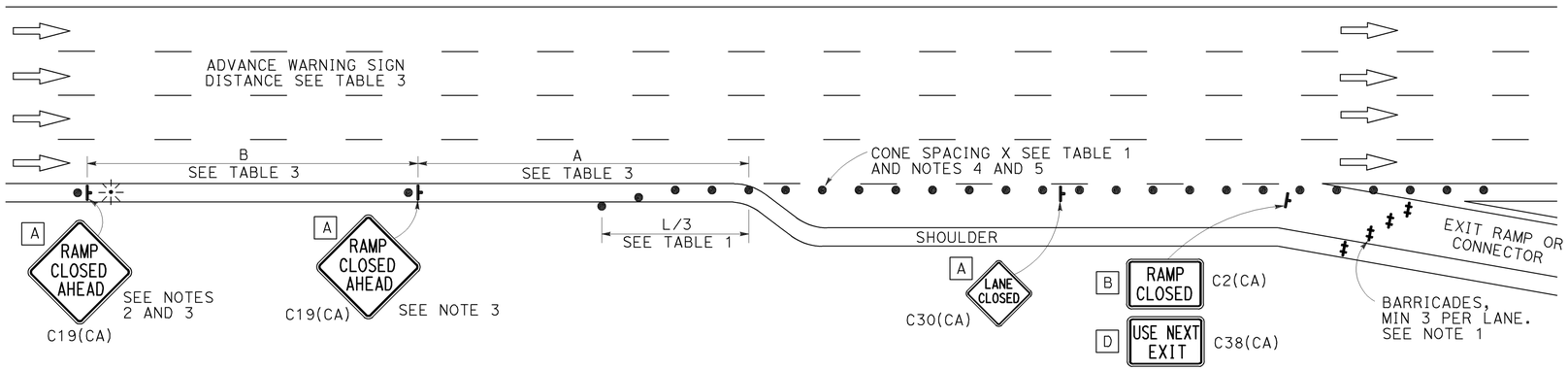
2010 REVISED STANDARD PLAN RSP T11

4-2-13

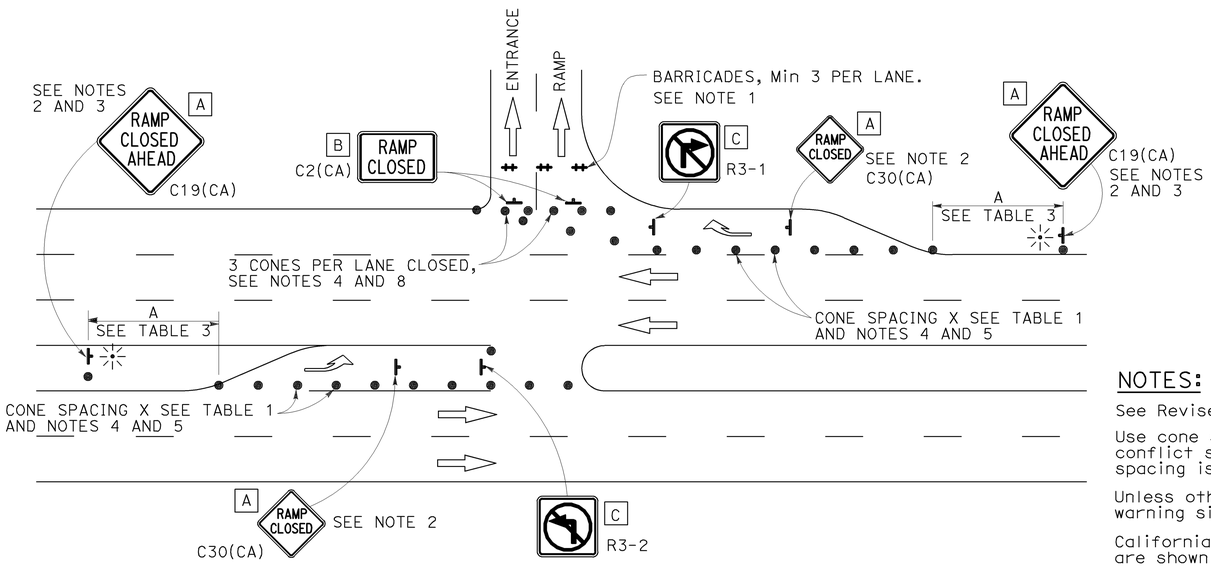
TYPICAL RAMP CLOSURES



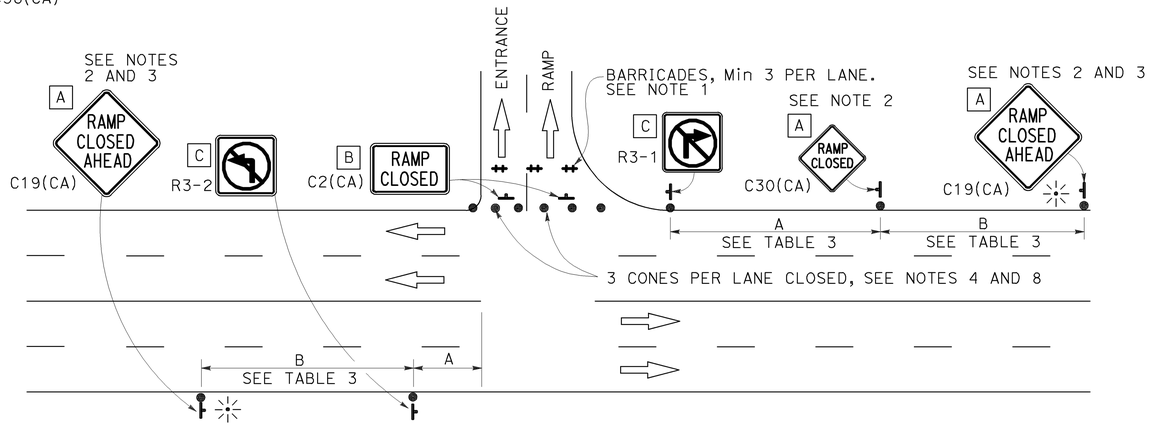
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

SIGN PANEL SIZE (Min)

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

LEGEND

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10, 710	Var	22	35

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 1-4-16

NOTES:

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

NOTES:

See Revised Standard Plan RSP T9 for tables.

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

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

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

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

12-18-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	23	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

Edward Nahm
No. C66900
Exp. 09/30/16
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

1-4-16
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 AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.

INDICATES LIMITS OF REPAIR SPALLED SURFACE AREA.

STANDARD PLANS DATED 2010

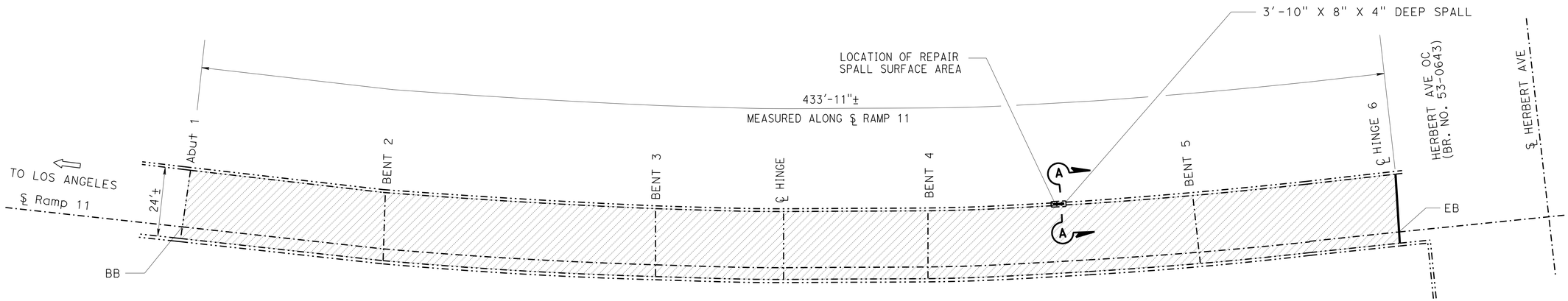
SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

STANDARD PLAN SHEET NO.

DETAIL NO.

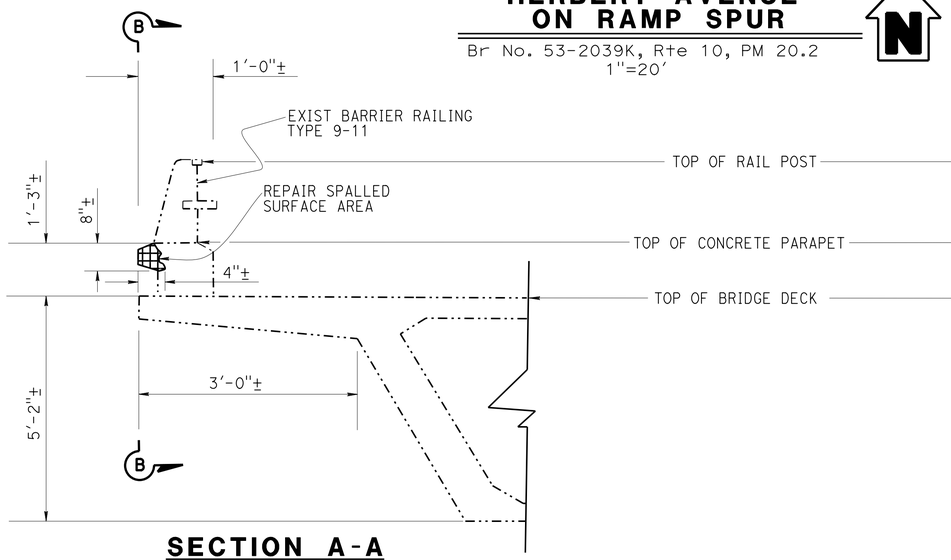
INDEX TO PLANS

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	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	MISCELLANEOUS DETAILS NO. 1
13	MISCELLANEOUS DETAILS NO. 2



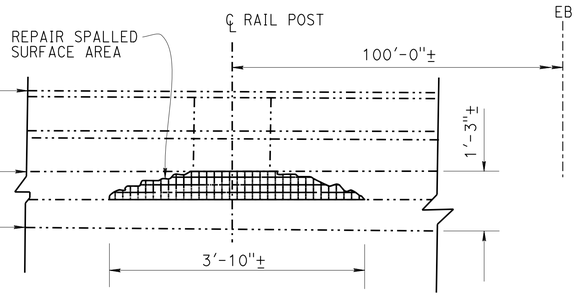
HERBERT AVENUE ON RAMP SPUR

Br No. 53-2039K, Rte 10, PM 20.2
1"=20'



SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

HERBERT AVENUE ON RAMP SPUR — BRIDGE NO. 53-2039K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	3 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	10,416 SQFT
TREAT BRIDGE DECK	10,416 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	130 GAL
CLEAN EXPANSION JOINT	24 LF
JOINT SEAL (MR 2 ")	24 LF

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Edward Nahm	Tony Brake
DETAILS	Eugene Goishi	Edward Nahm
QUANTITIES	Edward Nahm	Tony Brake

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Eugene Goishi	Edward Nahm
SPECIFICATIONS	Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 1

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: 0713000430-1
07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				01	13

FILE => 07-2w6404-a-gp01.dgn

DGNNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	24	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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

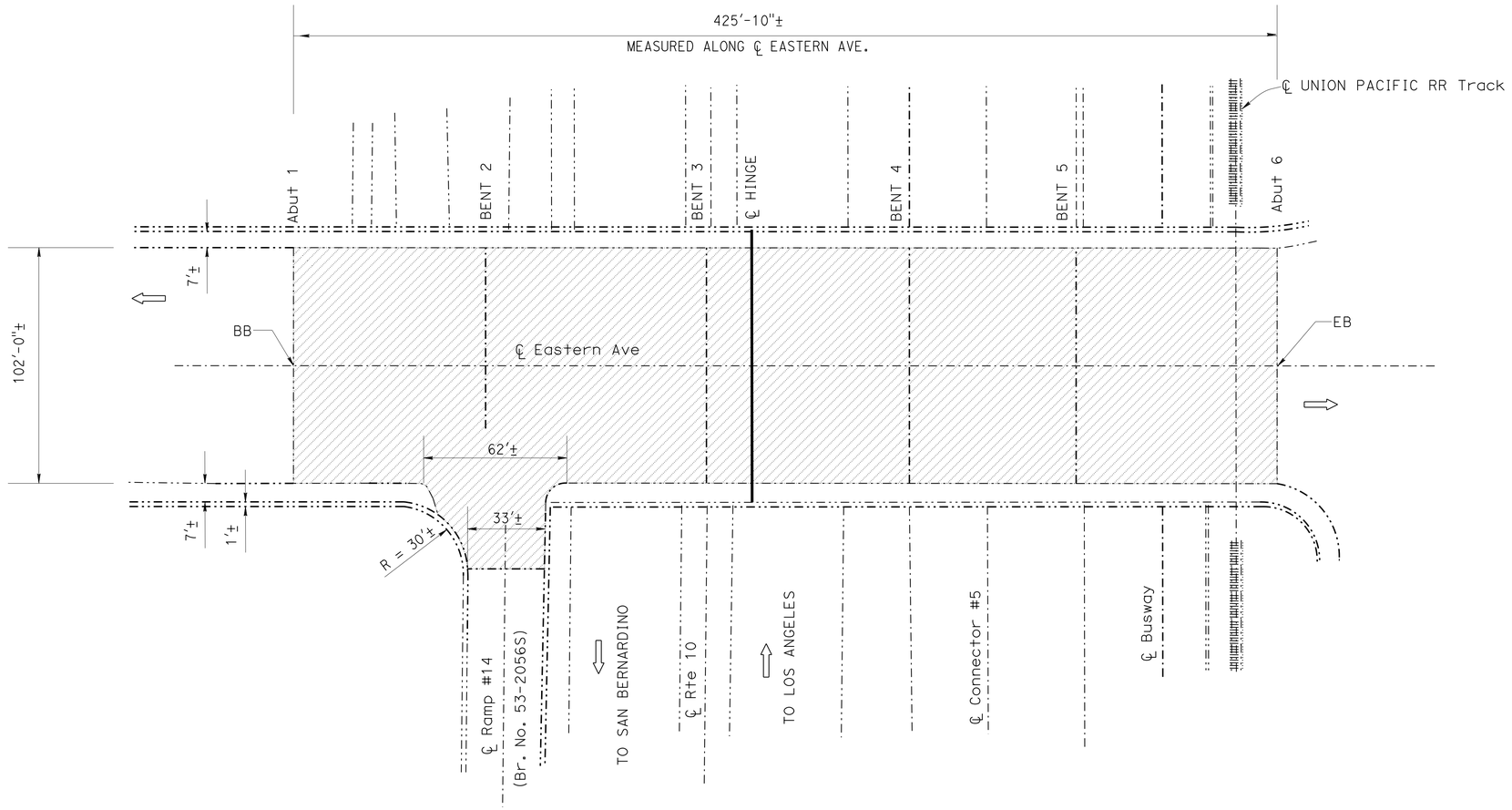
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.



EASTERN AVENUE OC — BRIDGE NO. 53-0123

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	45,192 SQFT
TREAT BRIDGE DECK	45,192 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	565 GAL
CLEAN EXPANSION JOINT	117 LF
JOINT SEAL (MR 2 ")	117 LF

EASTERN AVENUE OC

Br No. 53-0123 Rte 10, PM 20.85
1"=30'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Edward Nahm	Tony Brake			
DETAILS	Eugene Goishi	Edward Nahm	LAYOUT	Eugene Goishi	Edward Nahm
QUANTITIES	Edward Nahm	Tony Brake	SPECIFICATIONS	Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen

TONY D. BRAKE
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 2

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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
08-21-15				02	13

FILE => 07-2w6404-a-gp02.dgn

USERNAME => s122036 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 14:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	25	35

09/04/15
REGISTERED CIVIL ENGINEER DATE

1-4-16
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 — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

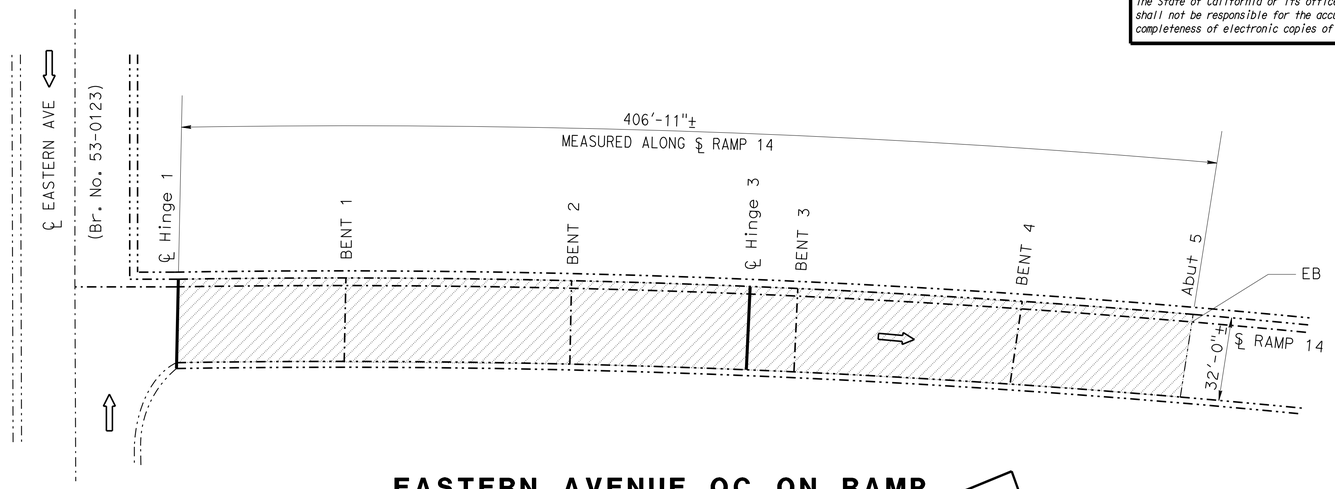
INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.

EASTERN AVENUE OC ON RAMP — BRIDGE NO. 53-2056S

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	13,024 SQFT
TREAT BRIDGE DECK	13,024 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	163 GAL
CLEAN EXPANSION JOINT	64 LF
JOINT SEAL (MR 2 ")	64 LF



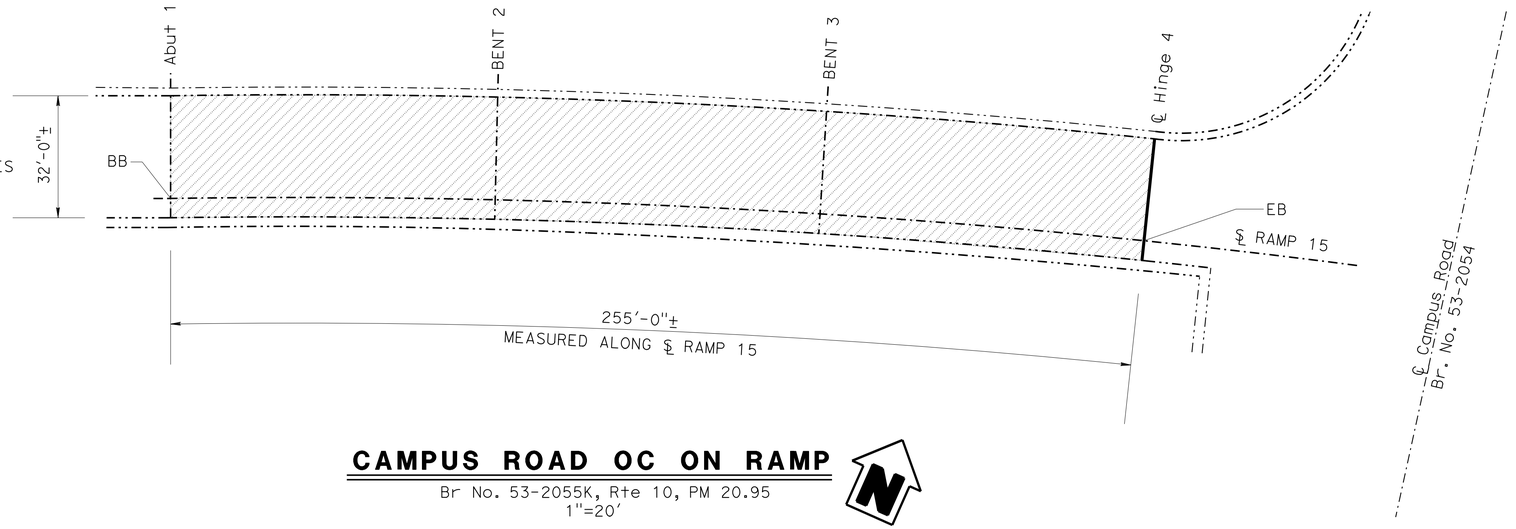
EASTERN AVENUE OC ON RAMP

Br No. 53-2056S, Rte 10, PM 20.9
1"=30'

CAMPUS ROAD OC ON RAMP — BRIDGE NO. 53-2055K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,160 SQFT
TREAT BRIDGE DECK	8,160 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	102 GAL
CLEAN EXPANSION JOINT	32 LF
JOINT SEAL (MR 2 ")	32 LF



CAMPUS ROAD OC ON RAMP

Br No. 53-2055K, Rte 10, PM 20.95
1"=20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm	LAYOUT	BY Eugene Goishi	CHECKED Edward Nahm		
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 3

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: 0713000430-1
CONTRACT NO.: 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				03	13

FILE => 07-2w6404-a-gp03.dgn

USERNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	26	35

REGISTERED CIVIL ENGINEER — DATE 09/04/15

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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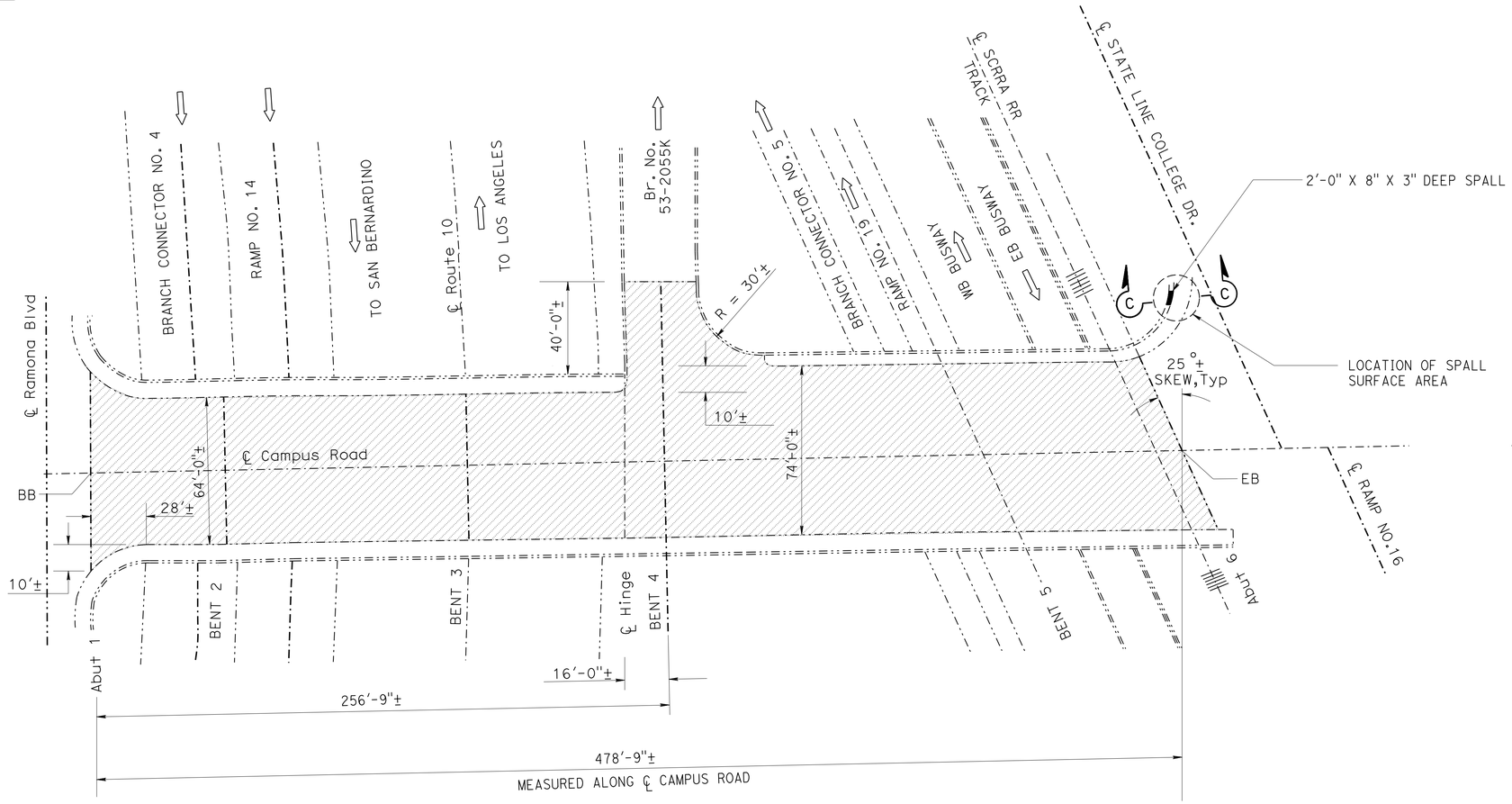
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

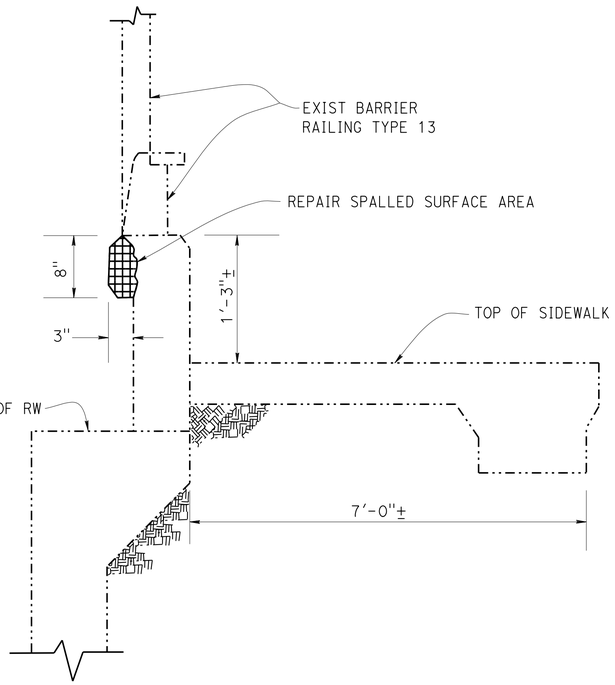
INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

OR INDICATES LIMITS OF REPAIR SPALLED SURFACE AREA.



CAMPUS ROAD OC

Br No. 53-2054, RTE 10, PM 21.00
1"=30'



SECTION C-C

NO SCALE

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

CAMPUS ROAD OC — BRIDGE NO. 53-2054

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
REPAIR SPALLED SURFACE AREA	2 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	34,910 SQFT
TREAT BRIDGE DECK	34,910 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	436 GAL

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm	LAYOUT	BY Eugene Goishi	CHECKED Edward Nahm	
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 4

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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 06-12-15

SHEET 04 OF 13

FILE => 07-2w6404-a-gp04.dgn

USERNAME => s1224236 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	27	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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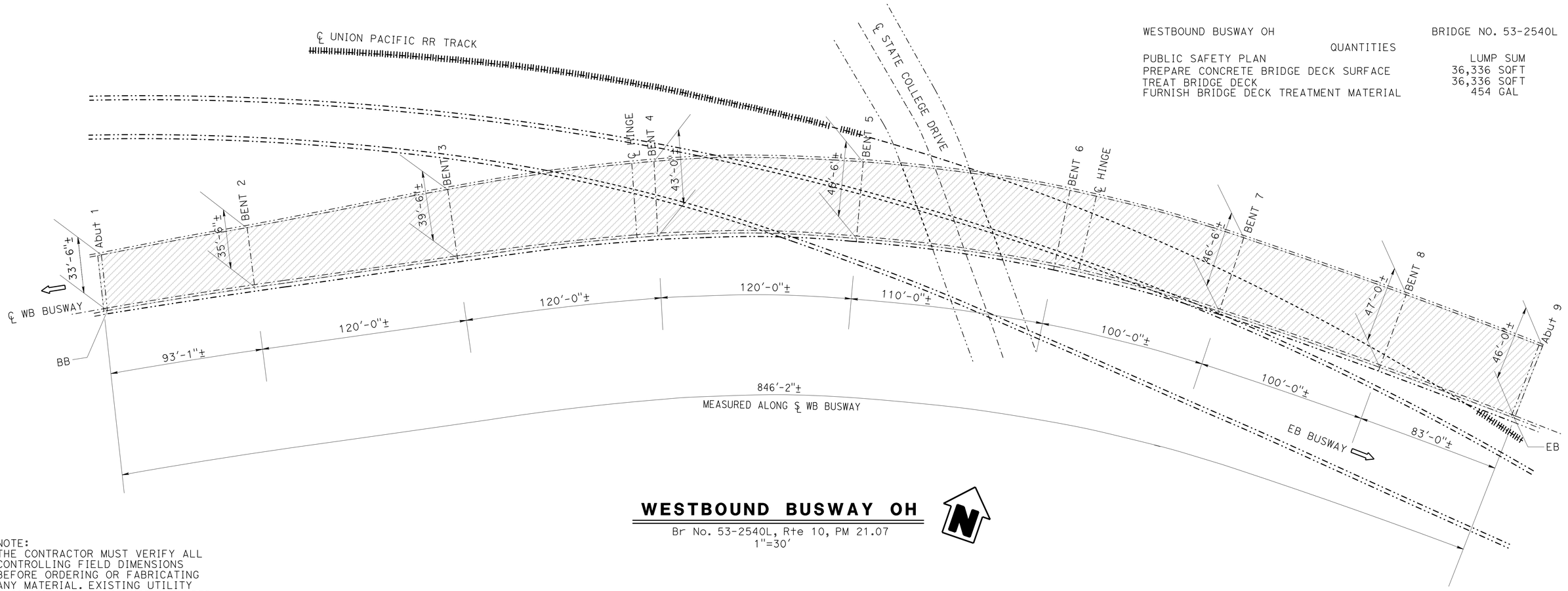
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.



WESTBOUND BUSWAY OH

Br No. 53-2540L, Rte 10, PM 21.07
1"=30'

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

WESTBOUND BUSWAY OH — BRIDGE NO. 53-2540L

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	36,336 SQFT
TREAT BRIDGE DECK	36,336 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	454 GAL

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm	LAYOUT	BY Eugene Goishi	CHECKED Edward Nahm	
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen	

TONY D. BRAKE
DESIGN ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 10, 710 BRIDGES
Various	GENERAL PLAN NO. 5
POST MILE	
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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				05	13

FILE => 07-2w6404-a-gp05.dgn

DGNNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	28	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

1-4-16
PLANS APPROVAL DATE

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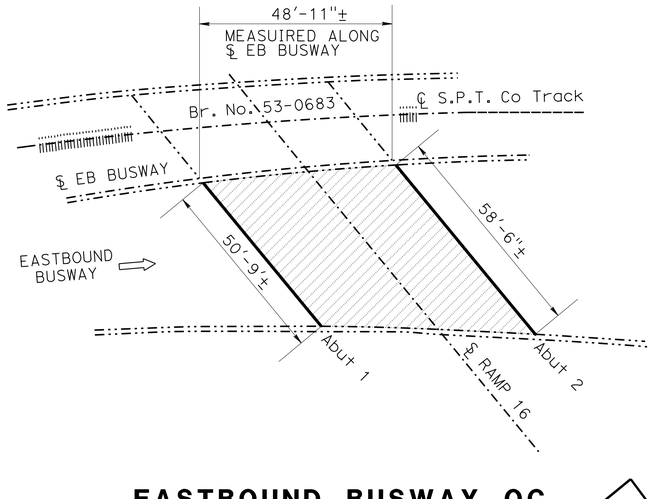
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.

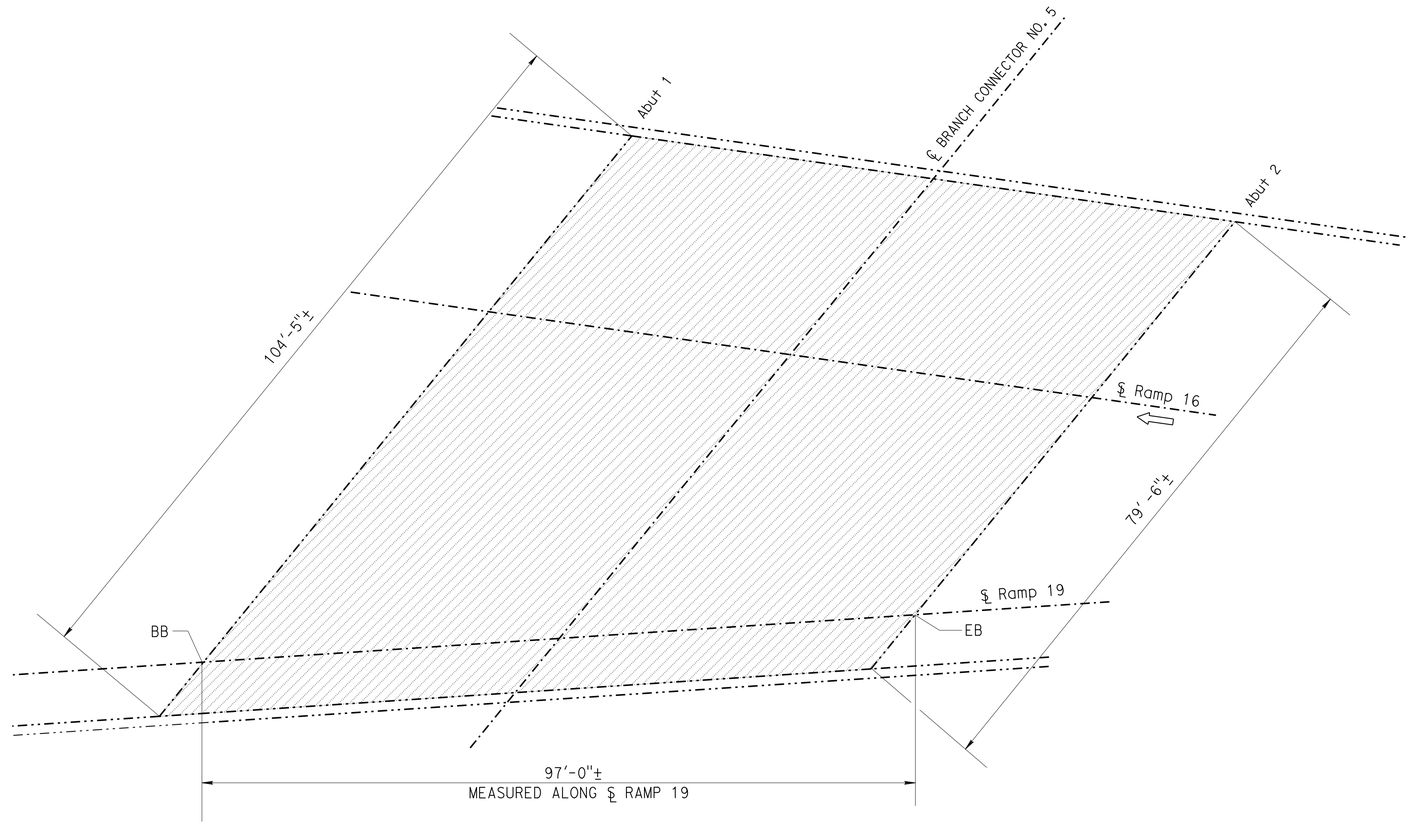


EASTBOUND BUSWAY OC

Br No. 53-2539R, Rte 10, PM 21.17
1"=20'

EASTBOUND BUSWAY OC — BRIDGE NO. 53-2539R

QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	2,667 SQFT
TREAT BRIDGE DECK	2,667 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	33 GAL
CLEAN EXPANSION JOINT	110 LF
JOINT SEAL (MR 1/2")	110 LF



NORTHWEST CONNECTOR OC (RAMP)

Br No. 53-1444K, Rte 10, PM 21.22
3/32"=1'

NORTHWEST CONNECTOR OC (RAMP) — BRIDGE NO. 53-1444K

QUANTITIES	
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	8,924 SQFT
TREAT BRIDGE DECK	8,924 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	112 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

X TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Edward Nahm	Tony Brake
DETAILS	Eugene Goishi	Edward Nahm
QUANTITIES	Edward Nahm	Tony Brake

LOAD & RESISTANCE FACTOR DESIGN — LIVE LOADING: HS-20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Eugene Goishi	Edward Nahm
SPECIFICATIONS	Xiaodong Chen	PLANS AND SPECS COMPARED: Xiaodong Chen

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH X

UNIT: 3489
PROJECT NUMBER & PHASE: 07-13000431-1 CONTRACT NO.: 07-2W6404

BRIDGE NO.: Various
POST MILE: Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN 6

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES	SHEET	OF
08-21-15	06	13

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

FILE => 07-2w6404-a-gp06.dgn

DGNNAME => s12436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:35:5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	29	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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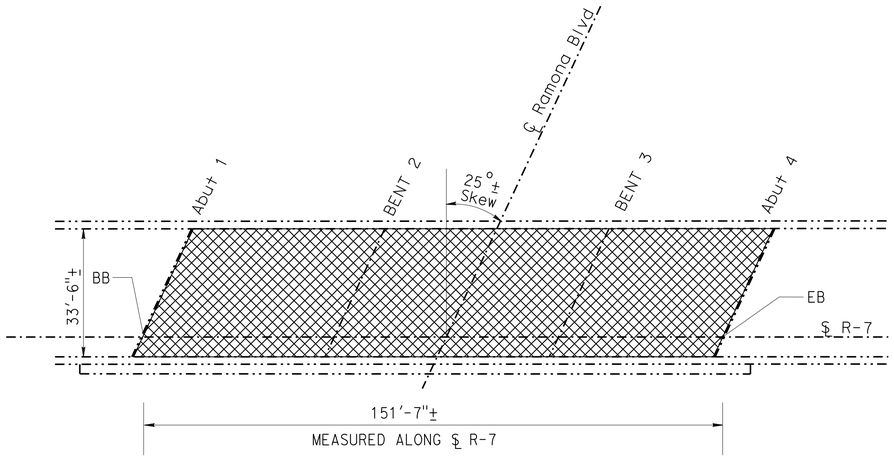
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

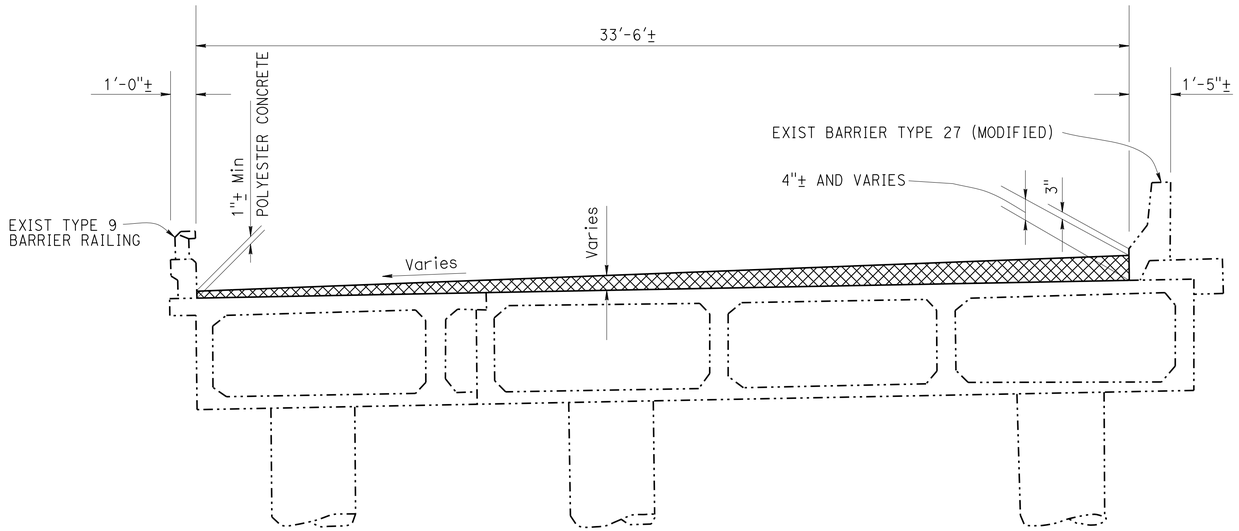
INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE, FURNISH AND PLACE NEW 1"± THICK MINIMUM AND VARIES POLYESTER CONCRETE OVERLAY. PRIOR TO PLACING NEW POLYESTER CONCRETE OVERLAY, REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE. POLYESTER CONCRETE SHALL BE PLACE IN ONE LIFT. SURVEY GRADES OF THE EXISTING AC OVERLAY AND BRIDGE DECK SURFACE SHALL BE PROVIDED PRIOR TO PLACING THE POLYESTER CONCRETE OVERLAY.

INDICATES LIMITS OF REMOVAL OF EXISTING 1"± THICK MINIMUM TO 4"± THICK ASPHALT CONCRETE OVERLAY.



RAMONA STREET UC (E10-S710)

Br No. 53-1459G, RTE 10, PM 21.33
1"=20'



TYPICAL SECTION

NO SCALE

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

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCH)
RAMONA STREET UC	53-1459G	1	3

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

NOTE:

1. FOR "DECK REPAIR DETAIL - OVERLAY", SEE "MISCELLANEOUS DETAILS NO. 2" SHEET.

RAMONA STREET UC (E10-S710) BRIDGE NO. 53-1459G

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
RAPID SETTING CONCRETE (PATCH)	13 CF
REMOVE ASPHALT CONCRETE SURFACING	5,078 SQFT
REMOVE UNSOUND CONCRETE	13 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	5,078 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	1,270 CF
PLACE POLYESTER CONCRETE OVERLAY	5,078 SQFT

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Edward Nahm	Tony Brake			
DETAILS	Eugene Goishi	Edward Nahm	LAYOUT	Eugene Goishi	Edward Nahm
QUANTITIES	Edward Nahm	Tony Brake	SPECIFICATIONS	Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 7

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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				07	13

FILE => 07-2w6404-a-gp07.dgn

DGNNAME => s1722436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	30	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

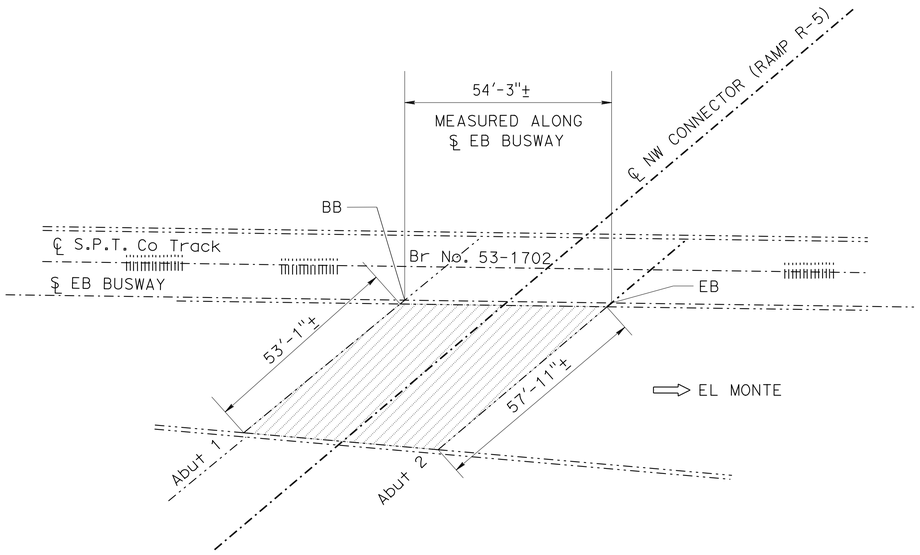
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.



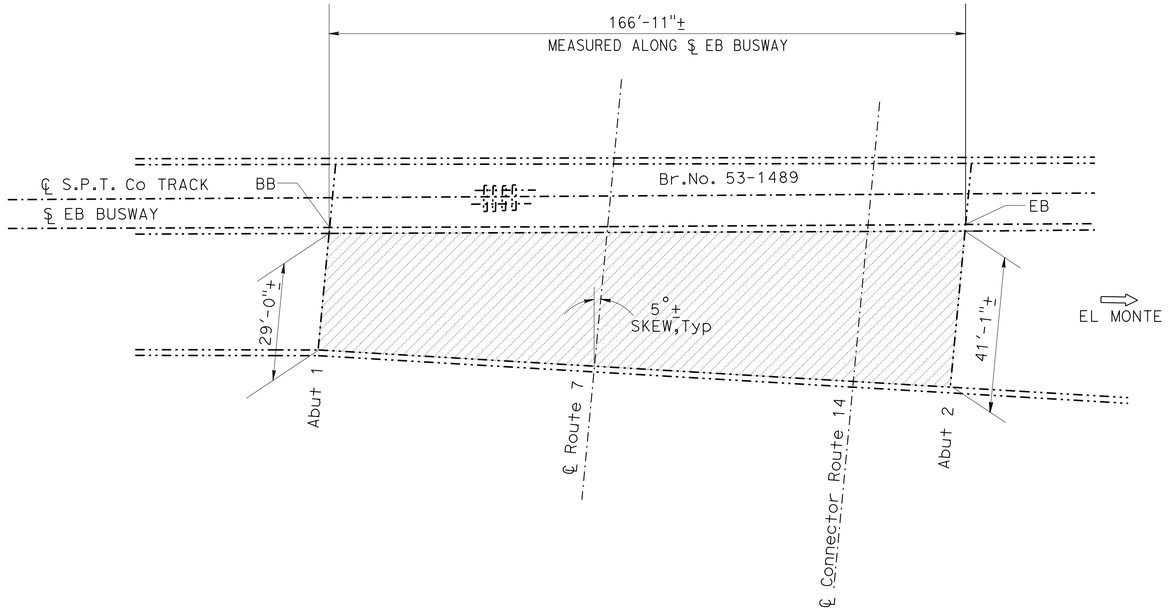
STATE COLLEGE EB BUSWAY OC

Br No. 53-2538R, Rte 10, PM 21.36
1"=20′

STATE COLLEGE EB BUSWAY OC — BRIDGE NO. 53-2538R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	3,011 SQFT
TREAT BRIDGE DECK	3,011 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	38 GAL



STATE COLLEGE EB BUSWAY OC

Br No. 53-2543R, RTE 10, PM 21.40
1"=20′

STATE COLLEGE EB BUSWAY OC — BRIDGE NO. 53-2543R

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	5,853 SQFT
TREAT BRIDGE DECK	5,853 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	73 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm	LAYOUT	BY Eugene Goishi	CHECKED Edward Nahm
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 8

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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
08-21-15	08	13

FILE => 07-2w6404-a-gp08.dgn

USERNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	31	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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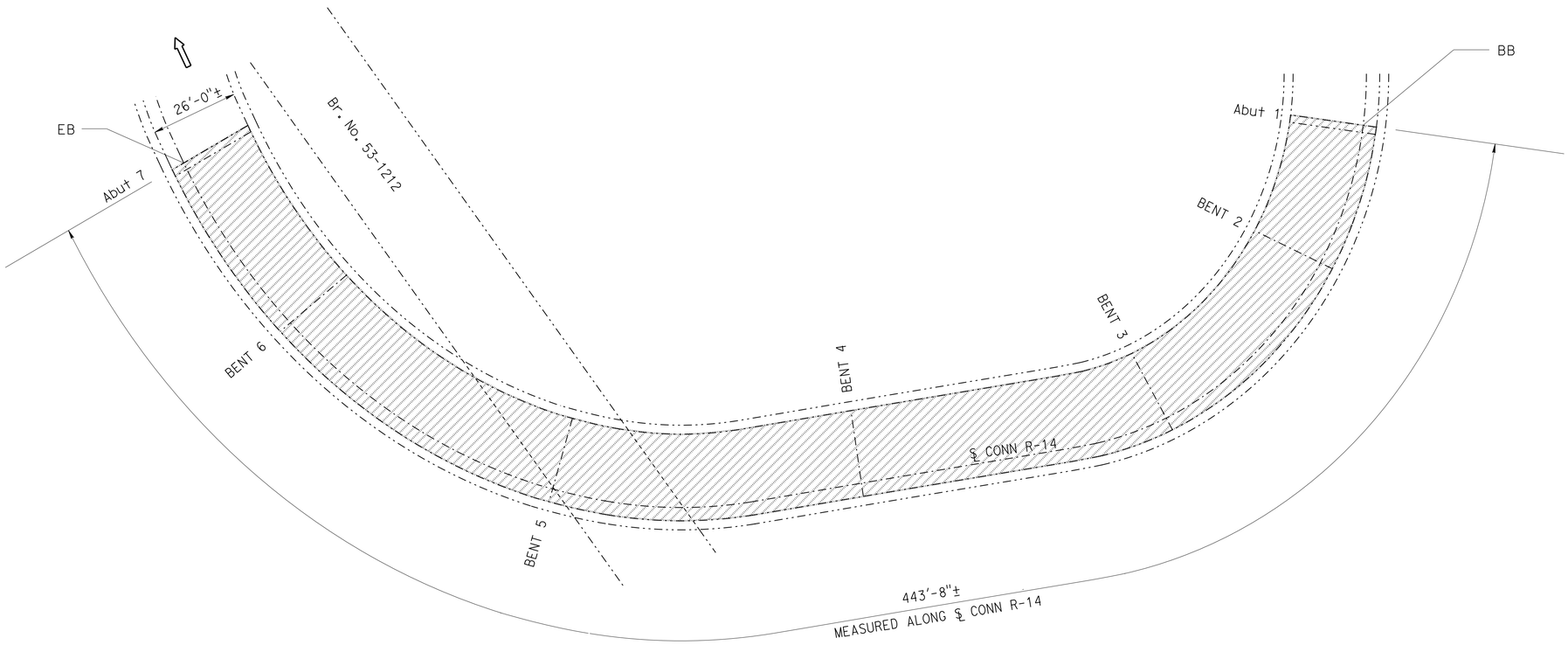
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.



E10-N710 BUSWAY CONNECTOR OC

Br No. 53-2542G, Rte 10, PM 21.45
1"=20'

E10-N710 BUSWAY CONNECTOR OC — BRIDGE NO. 53-2542G

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	11,535 SQFT
TREAT BRIDGE DECK	11,535 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	114 GAL

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm	LAYOUT	BY Eugene Goishi	CHECKED Edward Nahm	
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 9

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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				09	13

FILE => 07-2w6404-a-gp09.dgn

DESIGNNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	32	35

REGISTERED CIVIL ENGINEER — DATE 09/04/15

PLANS APPROVAL DATE 1-4-16

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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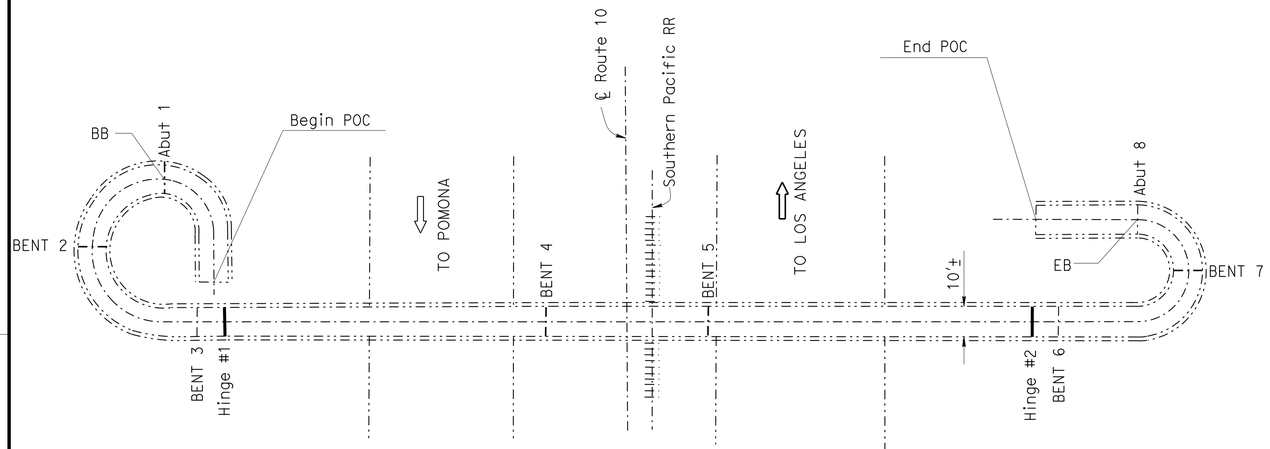
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

INDICATES LIMITS OF PREPARE CONCRETE BRIDGE DECK SURFACE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES LOCATION OF CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL.



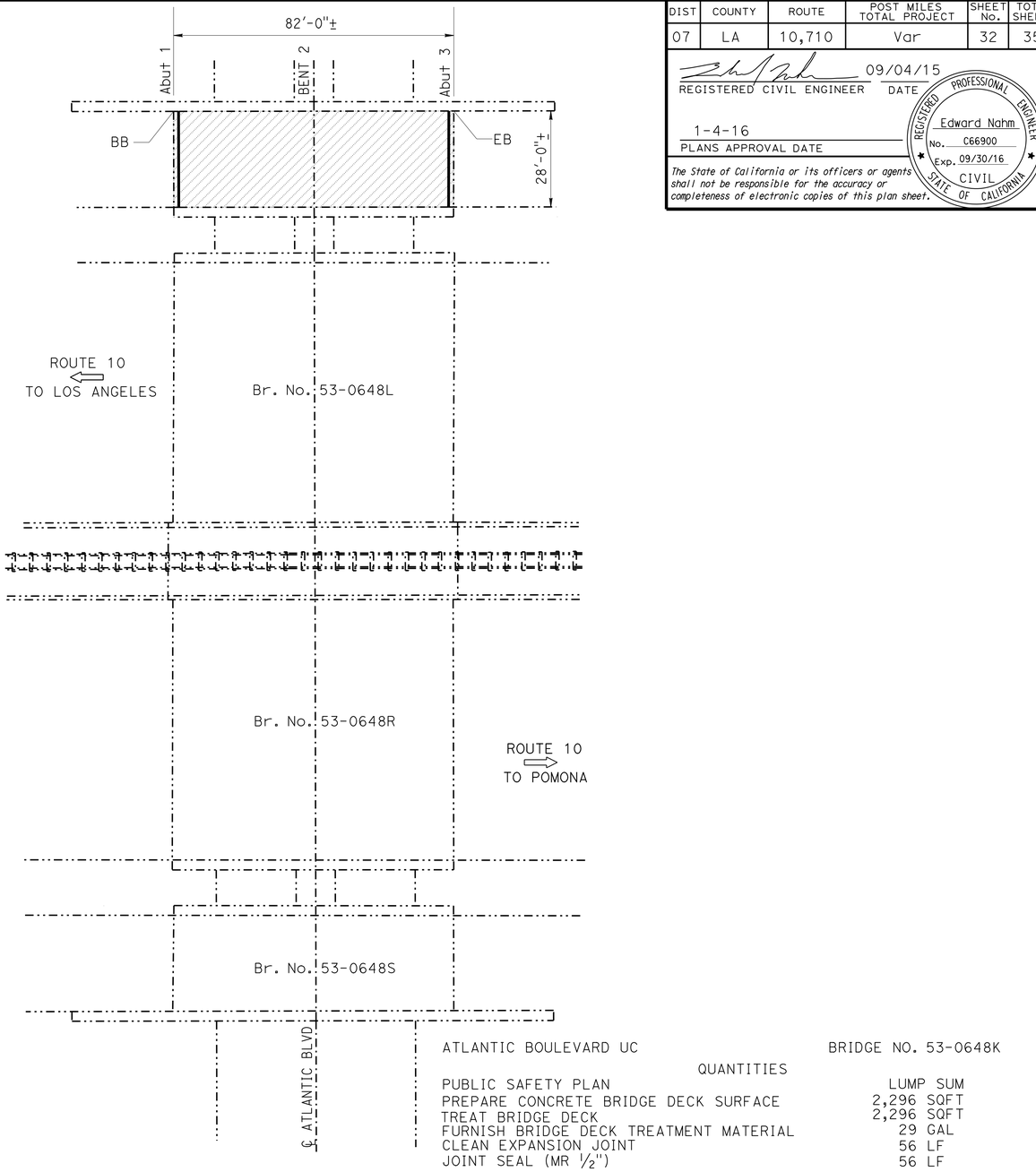
MARGUERITA AVENUE POC

Br No. 53-0804, Rte 10, PM 23.12
1"=30'

MARGUERITA AVENUE POC — BRIDGE NO. 53-0804

QUANTITIES

CLEAN EXPANSION JOINT	20 LF
JOINT SEAL (MR 2")	20 LF



ATLANTIC BOULEVARD UC — BRIDGE NO. 53-0648K

QUANTITIES

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	2,296 SQFT
TREAT BRIDGE DECK	2,296 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	29 GAL
CLEAN EXPANSION JOINT	56 LF
JOINT SEAL (MR ½")	56 LF

ATLANTIC BOULEVARD UC

Br No. 53-0648K, Rte 10, PM 23.33
1'=20'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

TONY D. BRAKE
DESIGN ENGINEER

DESIGN	BY Edward Nahm	CHECKED Tony Brake	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm	LAYOUT	BY Eugene Goishi	CHECKED Edward Nahm	
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake	SPECIFICATIONS	BY Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 10

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: 0713000430-1 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				10	13

FILE => 07-2w6404-a-gp10.dgn

DGNNAME => 61224436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10,710	Var	33	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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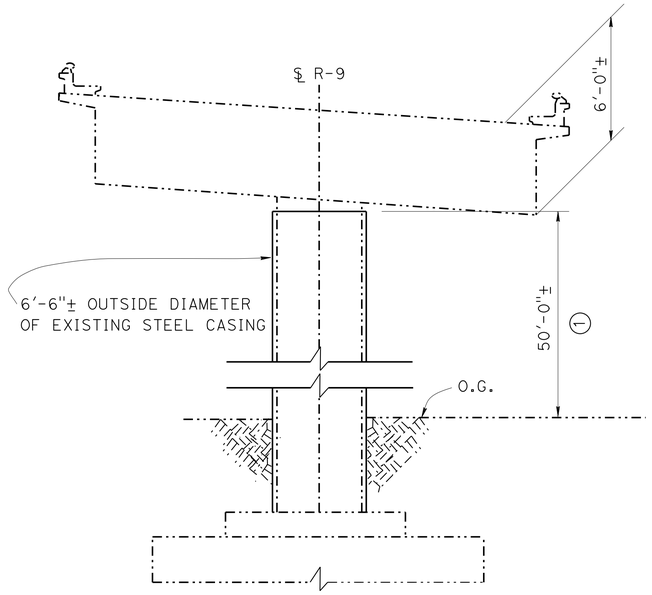
LEGEND:

INDICATES EXISTING.

INDICATES DIRECTION OF TRAFFIC.

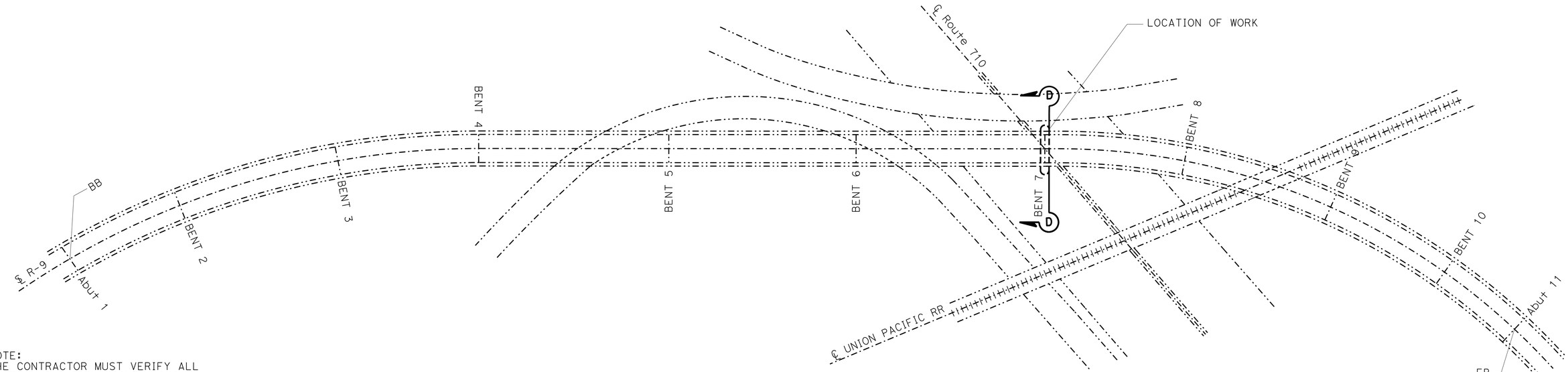
INDICATES EXISTING STEEL CASING.

(1) INDICATES LIMITS OF CLEAN AND FULL REMOVAL (100% BLAST) OF EXISTING PAINT SYSTEM ON EXISTING STEEL COLUMN CASING AND APPLY UNDERCOATS AND FINISH COATS OF THE SPECIFIED PAINT SYSTEM TO ALL BLAST CLEANED SURFACES.



SECTION D-D

NO SCALE



NOTE:
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S710-E10 CONNECTOR OC

Br No. 53-1262F, Rte 710, PM R26.57
1'=40'

S710-E10 CONNECTOR OC — BRIDGE NO. 53-1262F

QUANTITIES

WORK AREA MONITORING (BRIDGE)	LUMP SUM
CLEAN AND PAINT STEEL COLUMN CASING (EXISTING)	LUMP SUM

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	Edward Nahm	Tony Brake			
DETAILS	Eugene Goishi	Edward Nahm	LAYOUT	Eugene Goishi	Edward Nahm
QUANTITIES	Edward Nahm	Tony Brake	SPECIFICATIONS	Xiaodong Chen	PLANS AND SPECS COMPARED Xiaodong Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 10, 710 BRIDGES
GENERAL PLAN NO. 11

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: 0713000430-1 — 07-2W6404

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
08-21-15				11	13

FILE => 07-2w6404-a-gp11.dgn

USERNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	10,710	Var	34	35

09/04/15
REGISTERED CIVIL ENGINEER

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	JOINT SEAL LOCATION	MINIMUM "MR" (INCHES)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX LENGTH OF JOINT SEALS (FEET)	LENGTH TO CLEAN EXP JOINT (FEET)
HERBERT AVE ON RAMP SPUR	53-2039K	HINGE AT BENT 6	2	NO	6	24	24
EASTERN AVE OC	53-0123	HINGE IN SPAN 3	2	NO	6	117	117
EASTERN AVE OC ON RAMP	53-2056S	HINGE 1	2	NO	6	32	32
		HINGE 3	2	NO	6	32	32
CAMPUS ROAD OC ON RAMP	53-2055K	HINGE 4	2	NO	6	32	32
EB BUSWAY OC	53-2539R	ABUT 1	1/2	YES	6	51	51
		ABUT 2	1/2	YES	6	59	59
MARGUERITA AVE POC	53-0804	HINGE IN SPAN 3	2	NO	6	10	10
		HINGE IN SPAN 5	2	NO	6	10	10
ATLANTIC BLVD UC	53-0648K	ABUT 1	1/2	NO	6	28	28
		ABUT 3	1/2	NO	6	28	28

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 sheet.

The following notes apply to JOINT SEAL TYPE B:

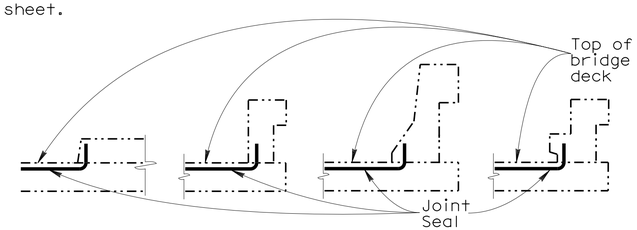
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) 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.

3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) 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.

4) 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 B6-21 sheet.



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.

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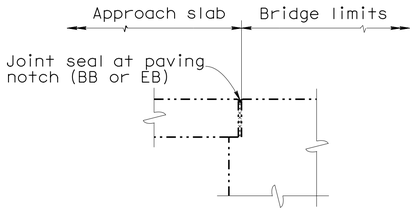
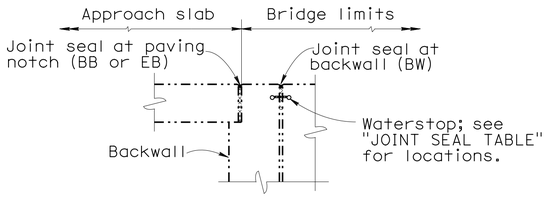
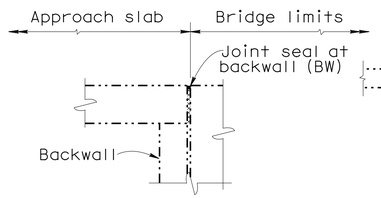


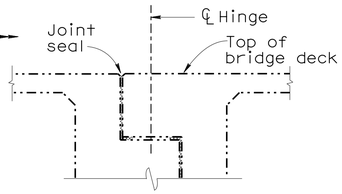
DIAPHRAGM ABUTMENT



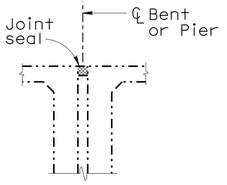
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

DESIGN	BY Edward Nahm	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm			POST MILE Varies
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake		CU 0713000430 EA 07-2W6404	DISREGARD PRINTS BEARING EARLIER REVISION DATES →

ROUTE 10, 710 BRIDGES
MISCELLANEOUS DETAILS NO. 1

REVISION DATES: 08-21-15

SHEET 12 OF 13

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 07-2w6404-c-miscdtls01.dgn

USERNAME => s122436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	10,710	Var	35	35

09/04/15
REGISTERED CIVIL ENGINEER — DATE

1-4-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Edward Nahm — No. C66900 — Exp. 09/30/16 — CIVIL — STATE OF CALIFORNIA

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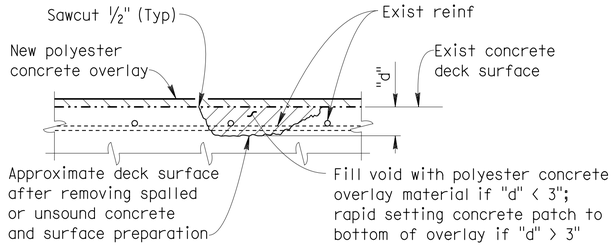
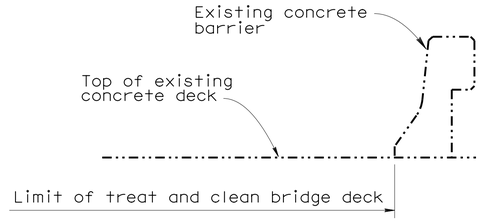


DECK REPAIR DETAIL - OVERLAY

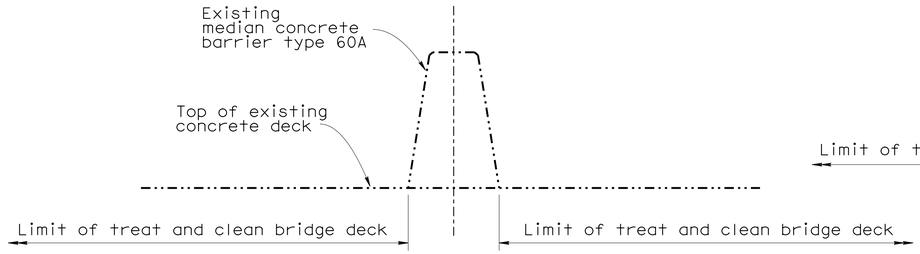
(Br No. 53-1459G)
Reinforcement may be encountered during deck concrete removal.

DECK REPAIR NOTES:

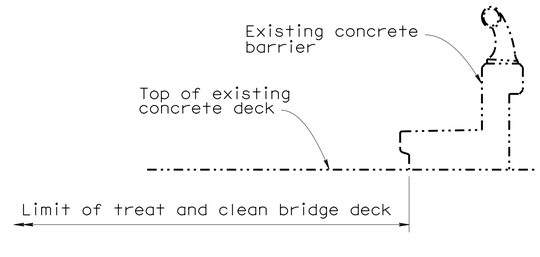
1. Existing reinforcement shall be located and protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidently cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
4. The saw cut depth shall not exceed ¾ inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



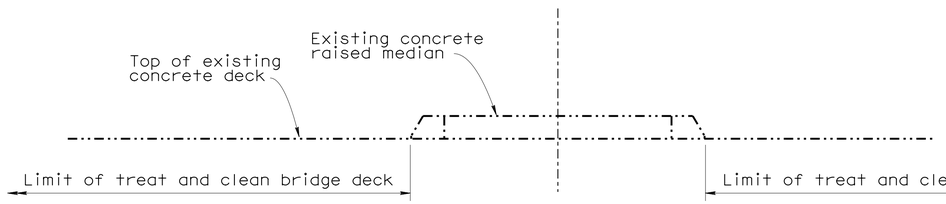
EOD BARRIER



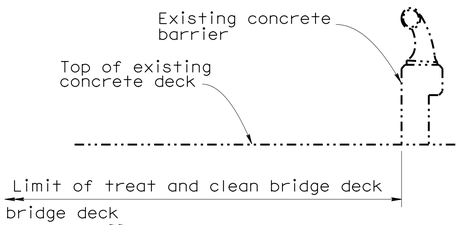
MEDIAN BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

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DESIGN	BY Edward Nahm	CHECKED Tony Brake	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. Various
DETAILS	BY Eugene Goishi	CHECKED Edward Nahm			POST MILE Varies
QUANTITIES	BY Edward Nahm	CHECKED Tony Brake		CU 0713000430 EA 07-2W6404	DISREGARD PRINTS BEARING EARLIER REVISION DATES →

ROUTE 10, 710 BRIDGES

MISCELLANEOUS DETAILS NO. 2

REVISION DATES: 08-21-15

SHEET 13 OF 13

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 07-2w6404-c-miscdtls02.dgn

USERNAME => s612436 DATE PLOTTED => 23-DEC-2015 TIME PLOTTED => 13:55