| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 1 | 27 |

STATE OF CALIFORNIA

# DEPARTMENT OF TRANSPORTATION

# PROJECT PLANS FOR CONSTRUCTION ON

# STATE HIGHWAY

## IN SANTA CLARA COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

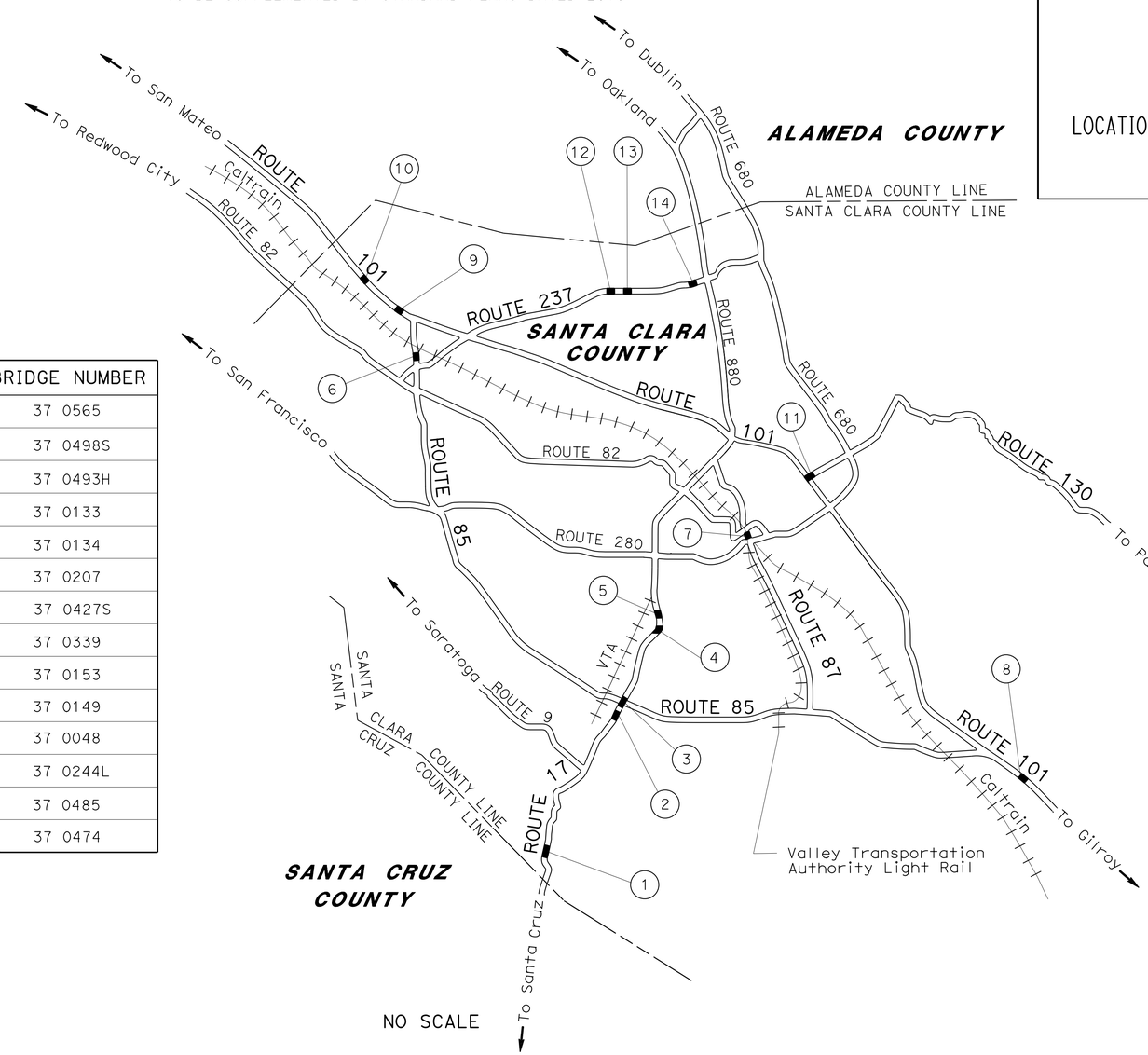
INDEX OF PLANS


| SHEET No. | DESCRIPTION |
|---|---|
| 1 | TITLE SHEET AND LOCATION MAP |
| 2-8 | CONSTRUCTION AREA SIGNS |
| 9 | PAVEMENT DELINEATION QUANTITIES |
| 10-16 | REVISED STANDARD PLANS |
| | STRUCTURE PLANS |
| 17-25 | GENERAL PLAN |
| 26 | JOINT SEAL TABLE AND DETAILS |
| 27 | DECK REPAIR AND TREATMENT DETAILS |


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

## LOCATIONS OF CONSTRUCTION

| LOCATION | ROUTE | PM | BRIDGE NAME | BRIDGE NUMBER |
|---|---|---|---|---|
| 1 | 17 | 4.30 | BEAR CREEK ROAD OC | 37 0565 |
| 2 | 17 | 8.98 | LARK AVENUE ON-RAMP SEPARATION | 37 0498S |
| 3 | 17 | 9.32 | ROUTE 17/85 SEPARATION | 37 0493H |
| 4 | 17 | 11.80 | CAMPBELL AVENUE UC | 37 0133 |
| 5 | 17 | 12.03 | LOS GATOS CREEK | 37 0134 |
| 6 | 85 | R22.63 | MOUNTAIN VIEW OVERHEAD | 37 0207 |
| 7 | 87 | 5.29 | AUZERAIS AVENUE UC | 37 0427S |
| 8 | 101 | R25.31 | METCALF ROAD OC | 37 0339 |
| 9 | 101 | 48.60 | NORTH SHORELINE BOULEVARD OC | 37 0153 |
| 10 | 101 | 52.01 | OREGON EXPRESSWAY OC | 37 0149 |
| 11 | 101 | R35.76 | EAST SANTA CLARA ST OC | 37 0048 |
| 12 | 237 | R6.41 | GUADALUPE RIVER | 37 0244L |
| 13 | 237 | 6.87 | NORTH FIRST STREET OC | 37 0485 |
| 14 | 237 | R8.92 | McCARTHY BOULEVARD OC | 37 0474 |




NO SCALE

LOCATION MAP

PROJECT MANAGER RAMSES SARGISS

DESIGN MANAGER JOHN HEMIUP

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

2/27/15

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — Yetendra K. Jangid — No. 77767 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA

March 2, 2015

PLANS APPROVAL DATE

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

| CONTRACT No. | 04-3E7704 |
|---|---|
| PROJECT ID | 0413000282 |

LAST REVISION 01-26-15 — DATE PLOTTED => 06-MAR-2015 — TIME PLOTTED => 10:05

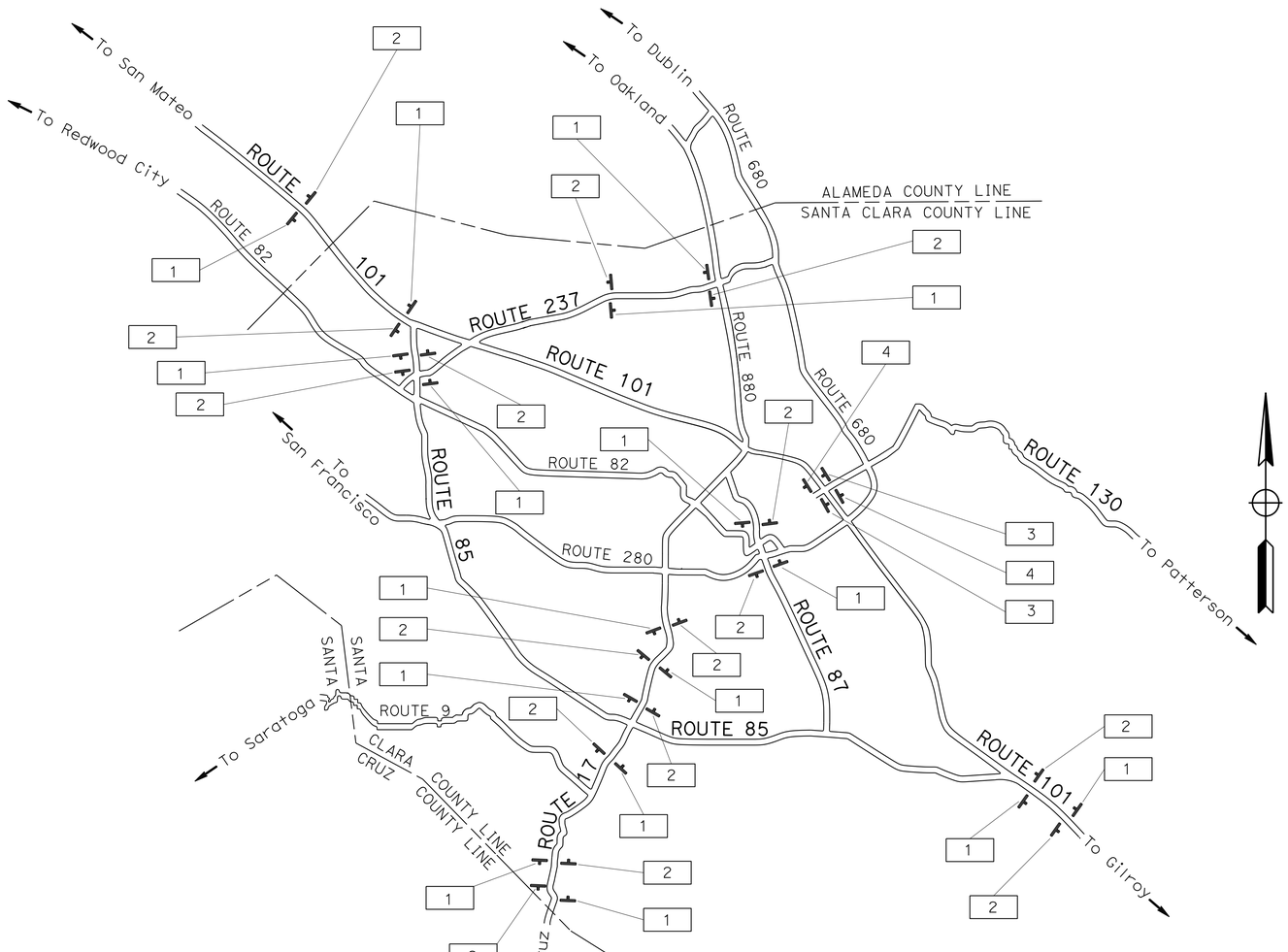
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 2 | 27 |

REGISTERED CIVIL ENGINEER 3-2-15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jerilyn L. Struven
No. 49964
Exp. 12-31-16
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:

| | |
|---|---|
| No. | CONSTRUCTION AREA SIGN DESIGNATION |
| X | RAMP CLOSED |

## NOTE:

1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE, EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

# CONSTRUCTION AREA SIGNS

NO SCALE

*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

**CS-1**

| | |
|---|---|
| REVISED BY | RY |
| DATE REVISED | 1/22/15 |
| CALCULATED-DESIGNED BY | ROY YUAN |
| CHECKED BY | JERILYN STRUVEN |
| FUNCTIONAL SUPERVISOR | ROLAND AU-YEUNG |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 01-26-15 | DATE PLOTTED => 06-MAR-2015 | TIME PLOTTED => 10:05

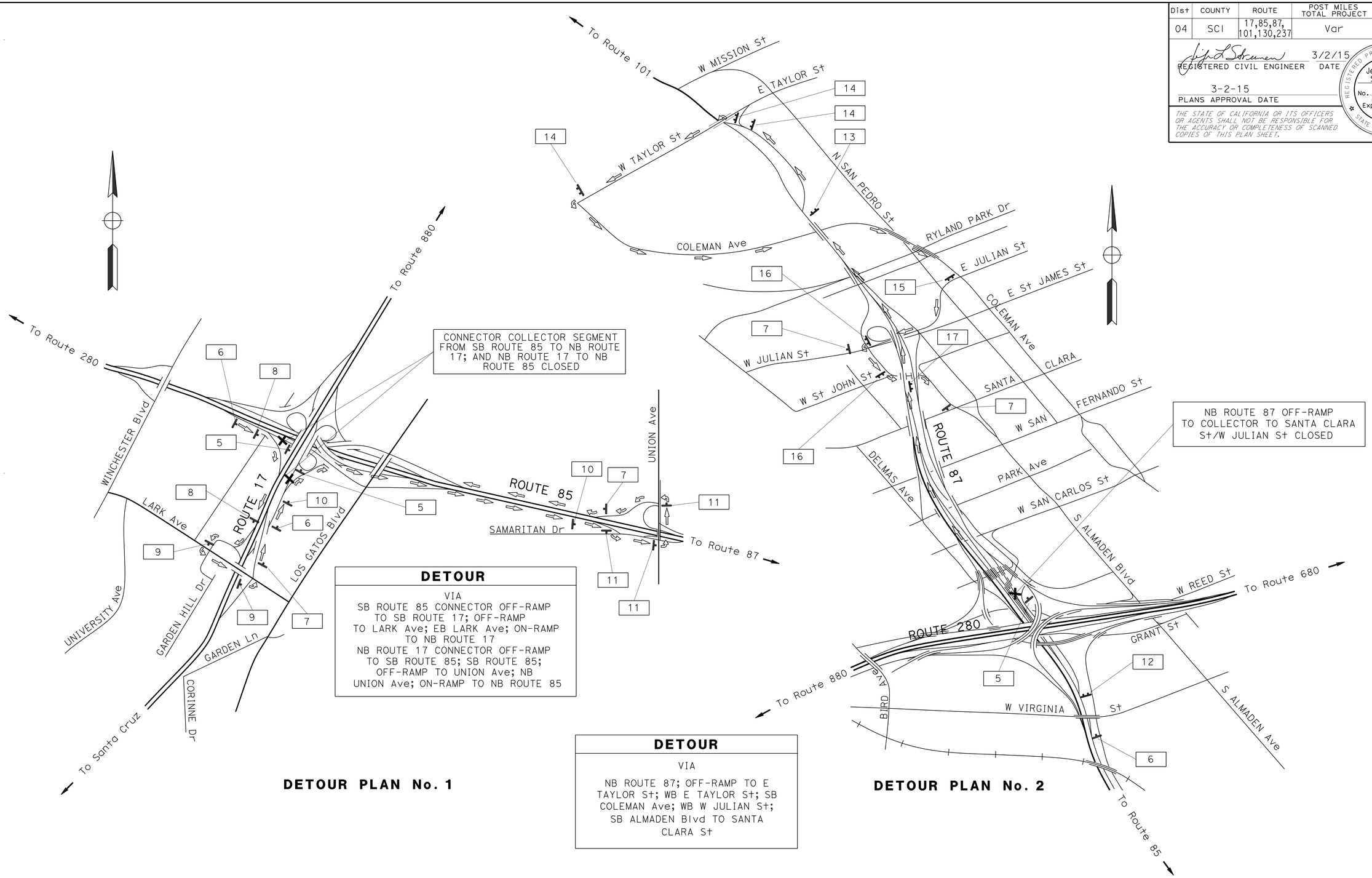
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 3 | 27 |

REGISTERED CIVIL ENGINEER 3/2/15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-16 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.*




**DETOUR**

VIA
SB ROUTE 85 CONNECTOR OFF-RAMP TO SB ROUTE 17; OFF-RAMP TO LARK Ave; EB LARK Ave; ON-RAMP TO NB ROUTE 17
NB ROUTE 17 CONNECTOR OFF-RAMP TO SB ROUTE 85; SB ROUTE 85; OFF-RAMP TO UNION Ave; NB UNION Ave; ON-RAMP TO NB ROUTE 85

**DETOUR PLAN No. 1**

**DETOUR**

VIA
NB ROUTE 87; OFF-RAMP TO E TAYLOR St; WB E TAYLOR St; SB COLEMAN Ave; WB W JULIAN St; SB ALMADEN Blvd TO SANTA CLARA St

**DETOUR PLAN No. 2**

# CONSTRUCTION AREA SIGNS

NO SCALE

*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

FOR NOTES AND LEGEND, SEE SHEET CS-1

**CS-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
CALCULATED-DESIGNED BY: ROY YUAN
CHECKED BY: JERILYN STRUVEN
REVISED BY: RY
DATE REVISED: 1/22/15

LAST REVISION 01-14-15
DATE PLOTTED => 06-MAR-2015
TIME PLOTTED => 10:05

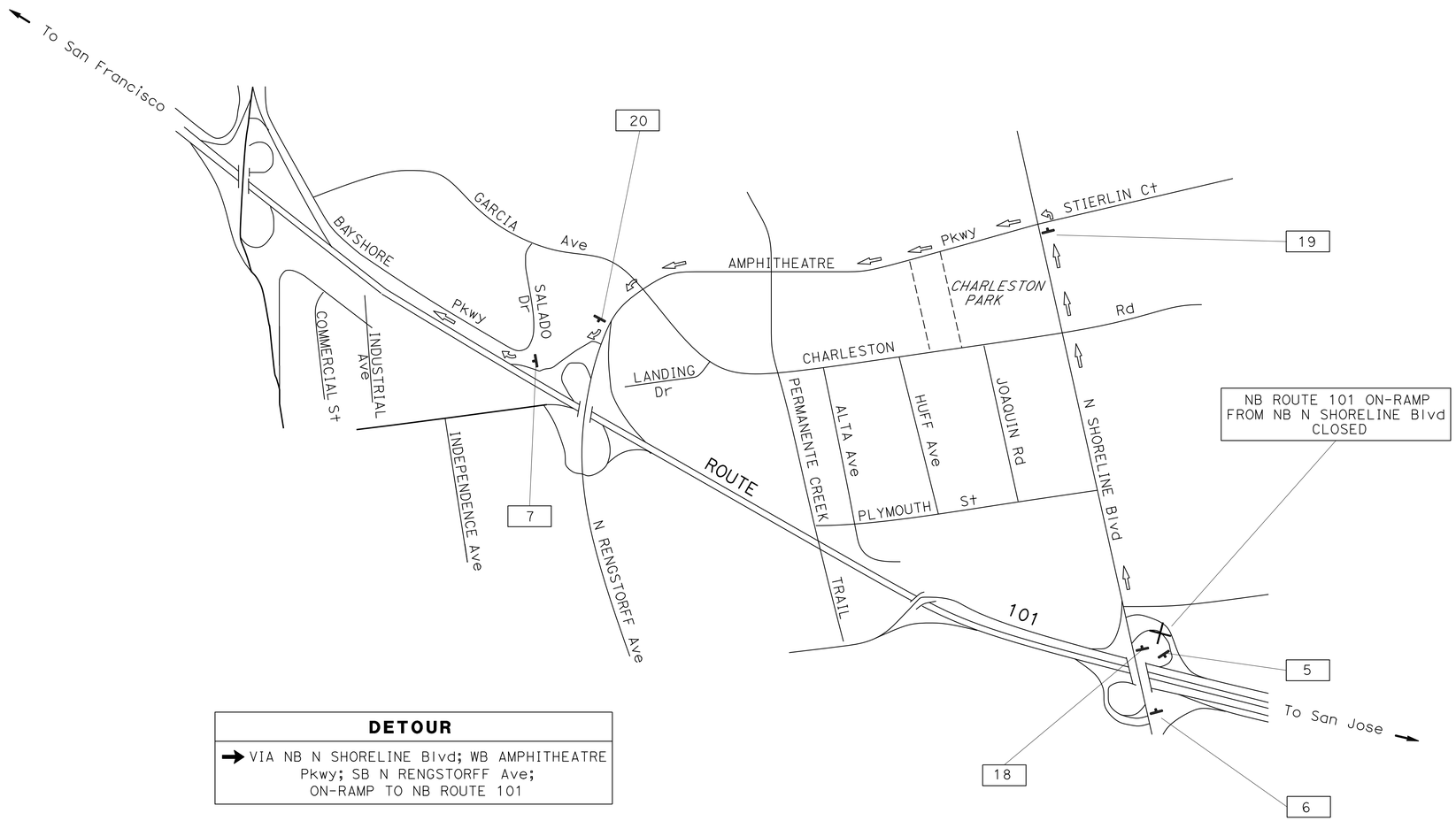
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 4 | 27 |

REGISTERED CIVIL ENGINEER 3/2/15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-16 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.*




**DETOUR**

➜ VIA NB N SHORELINE Blvd; WB AMPHITHEATRE Pkwy; SB N RENGSTORFF Ave; ON-RAMP TO NB ROUTE 101

**DETOUR PLAN No. 3**

# CONSTRUCTION AREA SIGNS

NO SCALE

*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

FOR NOTES AND LEGEND, SEE SHEET CS-1

**CS-3**

| | |
|---|---|
| REVISED BY | RY |
| DATE REVISED | 1/22/15 |
| CALCULATED-DESIGNED BY | ROY YUAN |
| CHECKED BY | JERILYN STRUVEN |
| FUNCTIONAL SUPERVISOR | ROLAND AU-YEUNG |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC

LAST REVISION 12-31-14 | DATE PLOTTED => 06-MAR-2015 | TIME PLOTTED => 10:05

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCl | 17,85,87, 101,130,237 | Var | 5 | 27 |

REGISTERED CIVIL ENGINEER 3/2/15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

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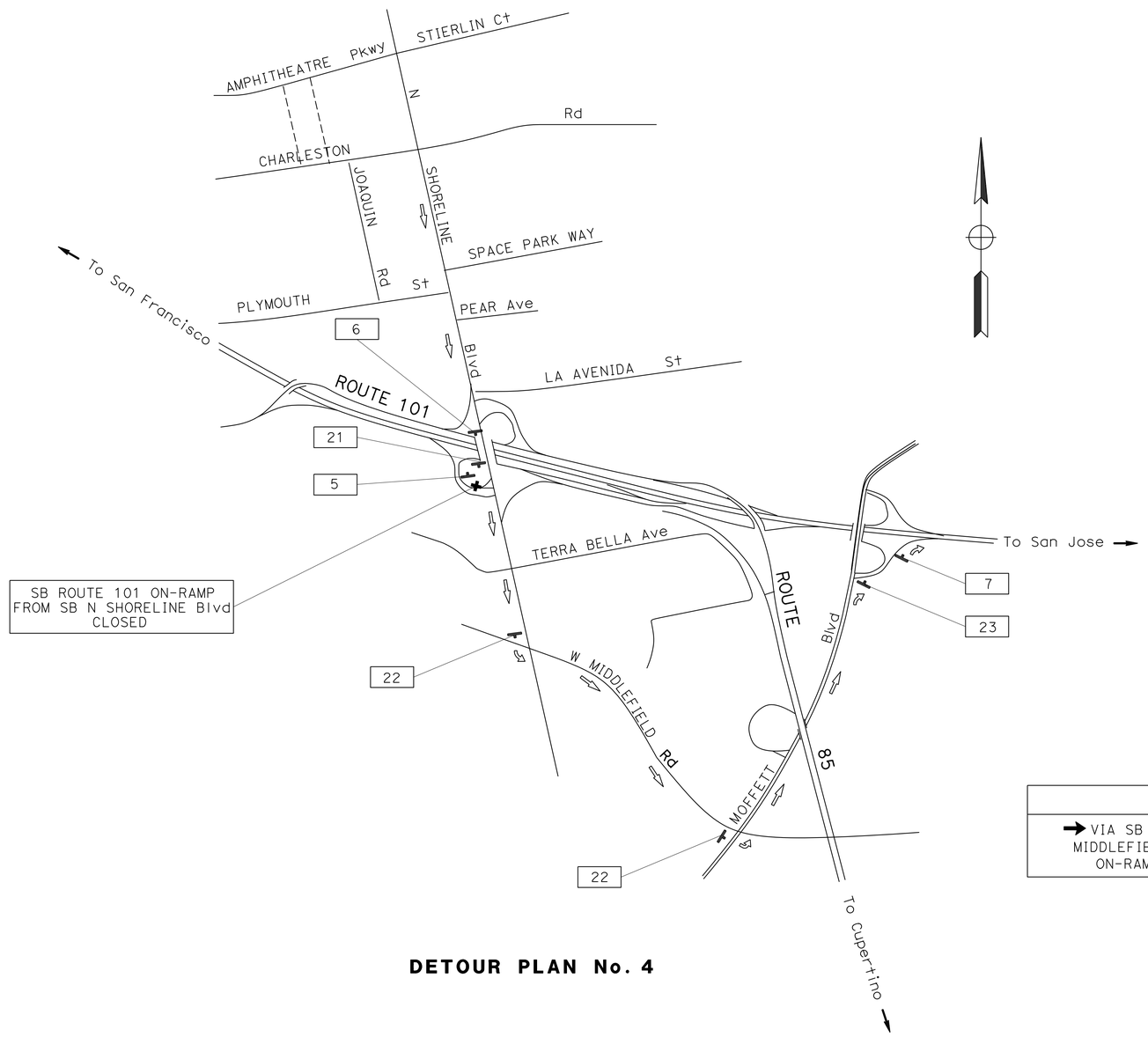



**DETOUR**

→ VIA SB N SHORELINE Blvd; SB/EB MIDDLEFIELD Rd; NB MOFFETT Blvd; ON-RAMP TO SB ROUTE 101

**DETOUR PLAN No. 4**

# CONSTRUCTION AREA SIGNS

NO SCALE

*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

FOR NOTES AND LEGEND, SEE SHEET CS-1

**CS-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
CALCULATED-DESIGNED BY: ROY YUAN
CHECKED BY: JERILYN STRUVEN
REVISED BY: RY
DATE REVISED: 1/22/15

LAST REVISION 01-14-15
DATE PLOTTED => 06-MAR-2015
TIME PLOTTED => 10:05

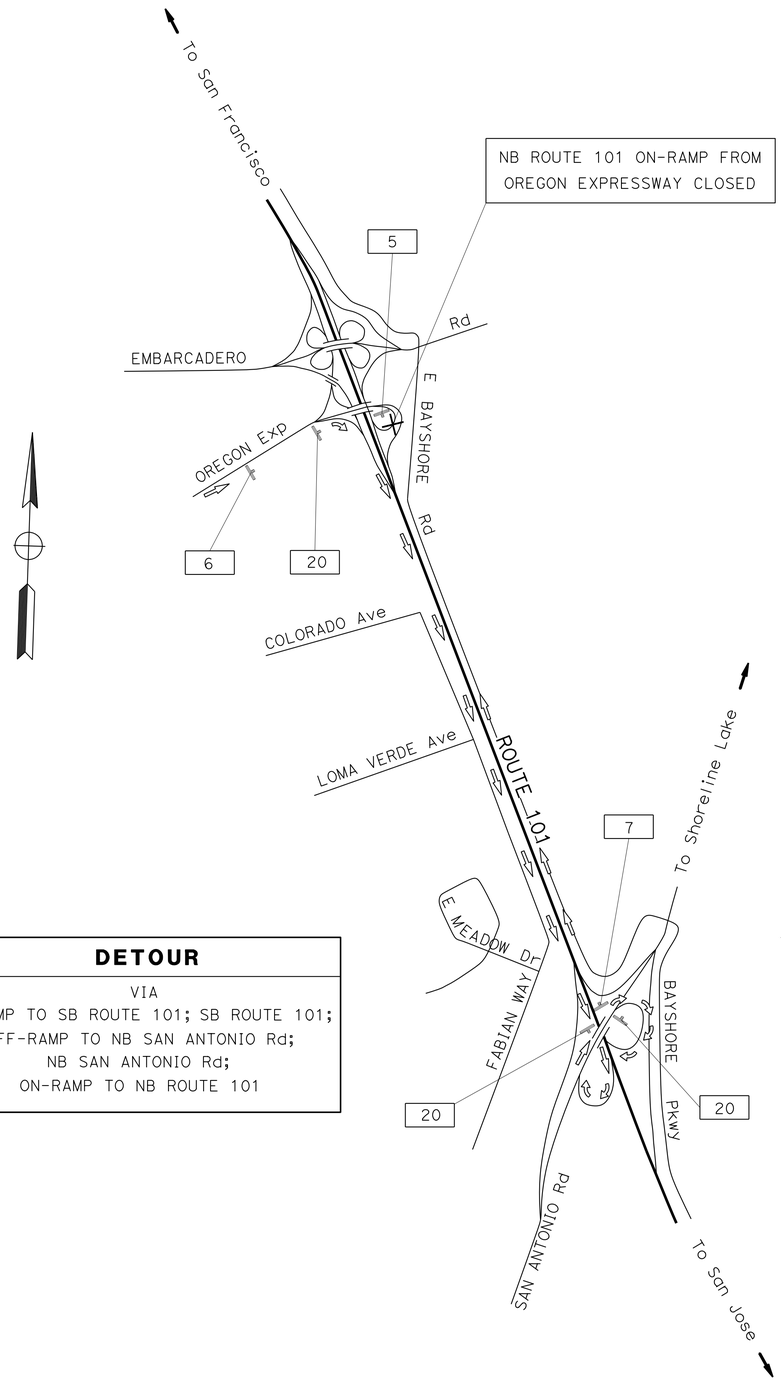
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 6 | 27 |

REGISTERED CIVIL ENGINEER 3/2/15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA

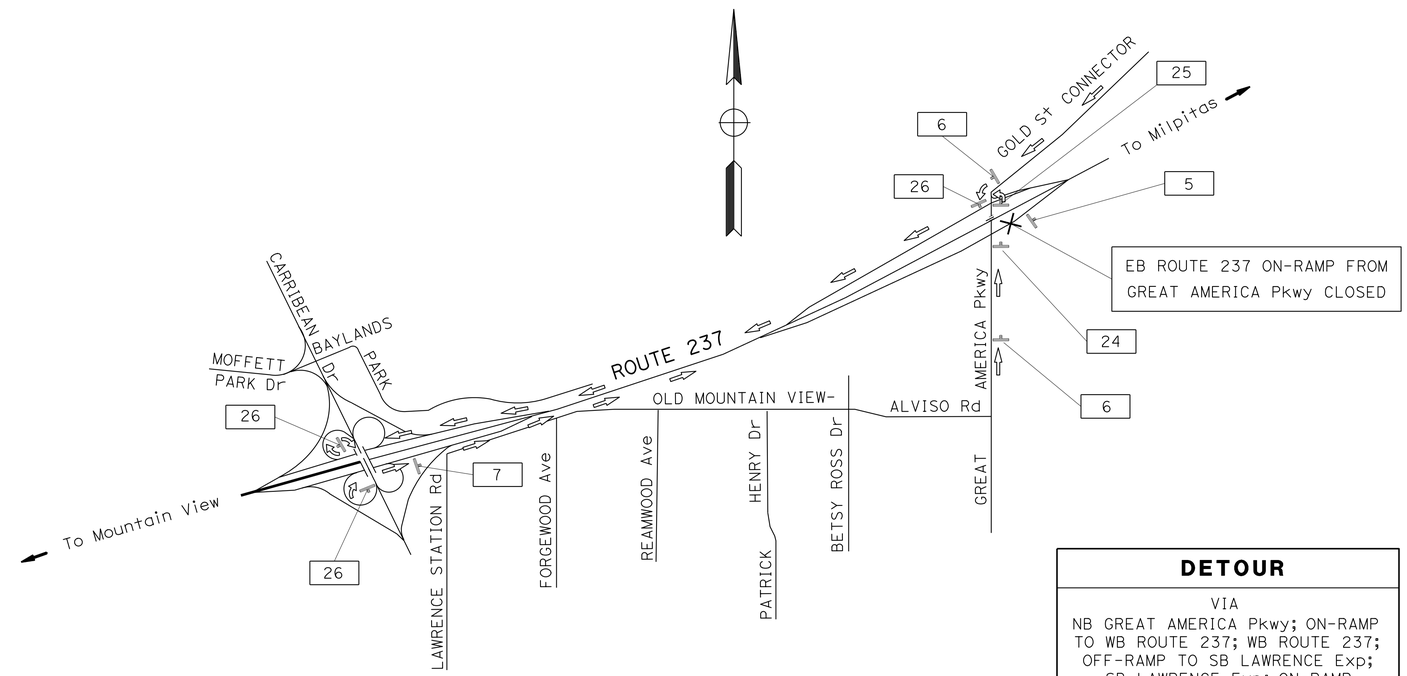
*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*




**DETOUR**

VIA
ON-RAMP TO SB ROUTE 101; SB ROUTE 101;
OFF-RAMP TO NB SAN ANTONIO Rd;
NB SAN ANTONIO Rd;
ON-RAMP TO NB ROUTE 101

**DETOUR PLAN No. 5**




**DETOUR**

VIA
NB GREAT AMERICA Pkwy; ON-RAMP
TO WB ROUTE 237; WB ROUTE 237;
OFF-RAMP TO SB LAWRENCE Exp;
SB LAWRENCE Exp; ON-RAMP
TO EB ROUTE 237

**DETOUR PLAN No. 6**

# CONSTRUCTION AREA SIGNS

NO SCALE

*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

FOR NOTES AND LEGEND, SEE SHEET CS-1

**CS-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
CALCULATED-DESIGNED BY: ROY YUAN
CHECKED BY: JERILYN STRUVEN
REVISED BY: RY
DATE REVISED: 1/22/15

LAST REVISION 01-02-15 | DATE PLOTTED => 06-MAR-2015 | TIME PLOTTED => 10:05

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 7 | 27 |

REGISTERED CIVIL ENGINEER 3/2/15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-16 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.*

# STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. | SIGN CODE FEDERAL | SIGN CODE CALIFORNIA | PANEL SIZE | SIGN MESSAGE | NUMBER OF POSTS AND SIZE | No. OF SIGNS |
|---|---|---|---|---|---|---|
| 1 | W20-1 | | 48" x 48" | ROAD WORK AHEAD | (one) 4" x 6" | 16 |
| 2 | G20-2 | | 48" x 24" | END ROAD WORK | (ONE) 4" x 4" | 16 |
| 3 | W20-1 | | 48" x 36" | ROAD WORK AHEAD | (ONE) 4" x 6" | 2 |
| 4 | G20-2 | | 36" x 18" | END ROAD WORK | (ONE) 4" x 4" | 2 |
| 5 | | SC6-4 | 48" x 60" | RAMP CLOSED (DATE & TIME) | (ONE) 6" x 6" | 7 |
| 6 | W20-2 | | 48" x 48" | DETOUR AHEAD | (ONE) 4" x 6" | 8 |
| 7 | M4-8a | | 24" x 18" | END DETOUR | (ONE) 4" x 6" | 8 |
| 8 | M4-8 | | 21" x 9" | DETOUR | (ONE) 4" x 6" | 2 |
| | | G28-2(17) | 24" x 25" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |
| | M6-2(↗) | | 21" x 15" | DETOUR (DIAGONAL ARROW) | | |
| 9 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (ONE) 4" x 6" | 2 |
| | | G28-2(17) | 24" x 25" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |
| 10 | M4-8 | | 21" x 9" | DETOUR | (ONE) 4" x 6" | 2 |
| | | G28-2(85) | 24" x 25" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |
| | M6-2(↗) | | 21" x 15" | DETOUR (DIAGONAL ARROW) | | |
| 11 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (ONE) 4" x 6" | 3 |
| | | G28-2(85) | 24" x 25" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |
| 12 | | SC-3(↑) | 48" x 18" | DETOUR (STRAIGHT AHEAD ARROW) | (TWO) 4" x 6" | 1 |
| | | SPECIAL 1 | 78" x 42" | SEE SPECIAL 1 | | |
| 13 | | SPECIAL 1 | 78" x 42" | SEE SPECIAL 1 | (TWO) 4" x 6" | 1 |
| | M6-2(↗) | | 21" x 15" | DETOUR (DIAGONAL ARROW) | | |
| 14 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (TWO) 4" x 6" | 3 |
| | | SPECIAL 1 | 78" x 42" | SEE SPECIAL 1 | | |
| 15 | M4-10 (R↑) | | 48" x 18" | DETOUR (RIGHT) | (TWO) 4" x 6" | 1 |
| | | SPECIAL 1 | 78" x 42" | SEE SPECIAL 1 | | |
| 16 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (TWO) 4" x 6" | 2 |
| | | SPECIAL 2 | 78" x 30" | SEE SPECIAL 2 | | |
| 17 | M4-10 (R↑) | | 48" x 18" | DETOUR (RIGHT) | (TWO) 4" x 6" | 1 |
| | | SPECIAL 2 | 78" x 30" | SEE SPECIAL 2 | | |
| 18 | | SC-3(↑) | 48" x 18" | DETOUR (STRAIGHT AHEAD ARROW) | (ONE) 4" x 6" | 1 |
| | | G26-2(101) | 28" x 24" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |

78" x 42"

DETOUR
Santa Clara St
W Julian St

6" CAPS
6" & 4½"
6" & 4½"

BLACK/ORANGE

**SPECIAL 1**

78" x 30"

DETOUR
Santa Clara St

6" CAPS
6" & 4½"

BLACK/ORANGE

**SPECIAL 2**

FOR NOTES AND LEGEND, SEE SHEET CS-1

## CONSTRUCTION AREA SIGNS

NO SCALE

**CS-6**

| | |
|---|---|
| REVISED BY | RY |
| DATE REVISED | 1/22/15 |
| CALCULATED-DESIGNED BY | ROY YUAN |
| CHECKED BY | JERILYN STRUVEN |
| FUNCTIONAL SUPERVISOR | ROLAND AU-YEUNG |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

TRAFFIC

LAST REVISION 01-02-15 | DATE PLOTTED => 06-MAR-2015 | TIME PLOTTED => 10:05

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 8 | 27 |

REGISTERED CIVIL ENGINEER 3/2/15 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-16 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.*

# STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. | SIGN CODE FEDERAL | SIGN CODE CALIFORNIA | PANEL SIZE | SIGN MESSAGE | NUMBER OF POSTS AND SIZE | No. OF SIGNS |
|---|---|---|---|---|---|---|
| 19 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (ONE) 4" x 6" | 1 |
| | | G26-2(101) | 28" x 24" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |
| 20 | M4-8 | | 21" x 9" | DETOUR | (ONE) 4" x 6" | 4 |
| | | G26-2(101) | 28" x 24" | ROUTE SHIELD | | |
| | M3-1 | | 21" x 9" | NORTH | | |
| | M6-2(↗) | | 21" x 15" | DETOUR (DIAGONAL ARROW) | | |
| 21 | | SC-3(↑) | 48" x 18" | DETOUR (STRAIGHT AHEAD ARROW) | (ONE) 4" x 6" | 1 |
| | | G26-2(101) | 28" x 24" | ROUTE SHIELD | | |
| | M3-3 | | 21" x 9" | SOUTH | | |
| 22 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (ONE) 4" x 6" | 2 |
| | | G26-2(101) | 28" x 24" | ROUTE SHIELD | | |
| | M3-3 | | 21" x 9" | SOUTH | | |
| 23 | M4-8 | | 21" x 9" | DETOUR | (ONE) 4" x 6" | 1 |
| | | G26-2(101) | 28" x 24" | ROUTE SHIELD | | |
| | M3-3 | | 21" x 9" | SOUTH | | |
| | M6-2(↗) | | 21" x 15" | DETOUR (DIAGONAL ARROW) | | |
| 24 | | SC-3(↑) | 48" x 18" | DETOUR (STRAIGHT AHEAD ARROW) | (ONE) 4" x 6" | 1 |
| | | G28-2(237) | 28" x 25" | ROUTE SHIELD | | |
| | M3-2 | | 21" x 9" | EAST | | |
| 25 | M4-10 (L↑) | | 48" x 18" | DETOUR (LEFT) | (ONE) 4" x 6" | 1 |
| | | G28-2(237) | 28" x 25" | ROUTE SHIELD | | |
| | M3-2 | | 21" x 9" | EAST | | |
| 26 | M4-8 | | 21" x 9" | DETOUR | (ONE) 4" x 6" | 3 |
| | | G28-2(237) | 28" x 25" | ROUTE SHIELD | | |
| | M3-2 | | 21" x 9" | EAST | | |
| | M6-2(↗) | | 21" x 15" | DETOUR (DIAGONAL ARROW) | | |

FOR NOTES AND LEGEND, SEE SHEET CS-1

## CONSTRUCTION AREA SIGNS

CS-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
CALCULATED-DESIGNED BY: ROY YUAN
CHECKED BY: JERILYN STRUVEN
REVISED BY: RY
DATE REVISED: 1/22/15

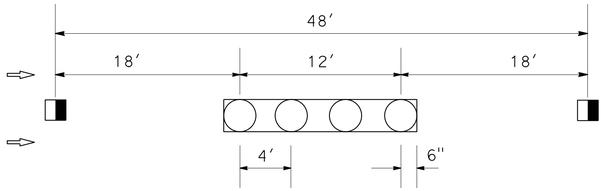
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 101,130,237 | Var | 9 | 27 |

REGISTERED CIVIL ENGINEER 2/27/15 DATE

3-2-15
PLANS APPROVAL DATE

Yetendra K. Jangid No. 77767 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

*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.*




**DETAIL 13M**

## LEGEND:

TYPE A WHITE NON-REFLECTIVE MARKER

TYPE G ONE-WAY CLEAR RETROREFLECTIVE MARKER

4" WHITE

## NOTES:

1. ALL EXISTING PAVEMENT DELINEATION REMOVED SHALL BE REPLACED IN KIND AT THE EXACT LOCATION OF EXISTING OR AS DIRECTED BY THE ENGINEER.
2. FOR DETAIL 13M, INSTALL 4" WHITE LINE AFTER INSTALLING PAVEMENT MARKERS.

# TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

| LOCATION | BRIDGE NAME BRIDGE No. CO-Rte-PM | DETAIL No. OR PAVEMENT MARKING | REMOVE | | | | PAVEMENT MARKER | | | | | THERMOPLASTIC TRAFFIC STRIPE | | | | | THERMOPLASTIC PAVEMENT MARKING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PAVEMENT MARKER | THERMOPLASTIC TRAFFIC STRIPE | | THERMOPLASTIC PAVEMENT MARKING | NON-REFLECTIVE | RETROREFLECTIVE | | | | SOLID | | BROKEN WHITE | | SOLID | |
| | | | | YELLOW (HAZARDOUS WASTE) | WHITE | | | | | | | YELLOW | WHITE | 12-3 | 35-13 | WHITE | |
| | | | | | | | TYPE A | TYPE C | TYPE D | TYPE G | TYPE H | 4" | | | | 8" | |
| | | | EA | LF | | SQFT | EA | | | | | LF | | | | | SQFT |
| 1 | BEAR CREEK ROAD OC Br No. 37 0565 04-SCI-17-PM 4.3 | 27B | | | 412 | | | | | | | | 412 | | | | |
| | | 22 | 20 | 412 | | | | | 20 | | | 414 | | | | | |
| | | 38B | 20 | | 412 | | | | | 20 | | | | | | 206 | |
| | | TYPE IV (L&R) ARROW | | | | 60 | | | | | | | | | | | 60 |
| 2 | LARK Ave ON-RAMP SEPARATION Br No. 37 0498S 04-SCI-17-PM 8.98 | 25A | 21 | 473 | | | | | | | 21 | 473 | | | | | |
| | | 13M | 51 | | 130 | | 40 | | | 11 | | | | | 473 | | |
| | | TYPE VI ARROW | | | | 126 | | | | | | | | | | | 126 |
| | | 27B | | | 473 | | | | | | | | 473 | | | | |
| 3 | ROUTE 17/85 SEPARATION (N17-N85-N17) Br No. 37 0493H 04-SCI-17-PM 9.32 | 25A | 18 | 407 | | | | | | | 18 | 407 | | | | | |
| | | 13M | 16 | | 52 | | 12 | | | 4 | | | | | 136 | | |
| | | 37 | 20 | | 109 | | | 8 | | 12 | | | | 272 | | | |
| | | 27B | | | 407 | | | | | | | | 407 | | | | |
| 4 | CAMPBELL Ave UC Br No. 37 0133 04-SCI-17-PM 11.80 | 25 | 8 | 268 | | | | | | | 8 | 268 | | | | | |
| | | 13M | 75 | | 195 | | 60 | | | 13 | | | | | 669 | | |
| | | 37 | 12 | | 54 | | | | | 12 | | | | 134 | | | |
| | | 27B | | | 262 | | | | | | | | 262 | | | | |
| 5 | LOS GATOS CREEK Br No. 37 0134 04-SCI-17-PM 12.03 | 25 | 8 | 262 | | | | | | | 8 | 262 | | | | | |
| | | 13M | 75 | | 178 | | 55 | | | 20 | | | | | 655 | | |
| | | 37 | 12 | | 54 | | | 4 | | 8 | | | | 131 | | | |
| | | 27B | | | 262 | | | | | | | | 262 | | | | |
| 6 | MOUNTAIN VIEW OVERHEAD Br No. 37 0207 04-SCI-85-PM R22.63 | 25 | 20 | 872 | | | | | | | 20 | 872 | | | | | |
| | | 13M | 186 | | 474 | | 146 | | | 40 | | | | | 1745 | | |
| | | DIAMOND SYMBOL | | | | 22 | | | | | | | | | | | 22 |
| | | 27B | | | 872 | | | | | | | | 872 | | | | |
| 8 | METCALF ROAD OC Br No. 37 0339 04-SC-101-PM R25.31 | 21 | | 472 | | | | | | | | 472 | | | | | |
| | | 27B | | | 472 | | | | | | | | 472 | | | | |
| 12 | GUADALUPE RIVER Br No. 37 0244L 04-SCI-237-PM R6.41 | 25 | 16 | 685 | | | | | | | 16 | 685 | | | | | |
| | | 13M | 89 | | 372 | | 57 | | | 32 | | | | | 1370 | | |
| | | DIAMOND SYMBOL | | | | 11 | | | | | | | | | | | 11 |
| | | 37 | 48 | | 274 | | | | | 48 | | | | 685 | | | |
| | | 27B | | | 685 | | | | | | | | 685 | | | | |
| 13 | NORTH FIRST STREET OC Br No. 37 0485 04-SCI-237-PM 6.87 | 25A | 16 | 722 | | | | | | | 16 | 722 | | | | | |
| | | 13M | 118 | | 294 | | 91 | | | 27 | | | | | 1083 | | |
| | | 38 | 16 | | 722 | | | | | 16 | | | | | | 361 | |
| | | TYPE IV (L) ARROW | | | | 60 | | | | | | | | | | | 60 |
| | | 27B | | | 722 | | | | | | | | 722 | | | | |
| 14 | McCARTHY BOULEVARD OC Br No. 37 0474 04-SCI-237-PM R8.92 | 38 | 15 | | 720 | | | | | 15 | | | | | | 360 | |
| | | 13M | 154 | | 352 | | 118 | | | 36 | | | | | 1408 | | |
| | | TYPE IV (L) ARROW | | | | 60 | | | | | | | | | | | 60 |
| SUBTOTAL | | | 1034 | 4573 | 8959 | 339 | 579 | 12 | 20 | 314 | 107 | 4575 | 4567 | 1222 | 7539 | 927 | 339 |
| TOTAL | | | 1034 | 4573 | 8959 | 339 | 579 | 453 | | | | 9142 | | 1222 | 7539 | 927 | 339 |

# PAVEMENT DELINEATION QUANTITIES

**PDQ-1**

| REVISED BY | DATE REVISED |
|---|---|
| YJ | 1/23/15 |

YETENDRA JANGID — DARIO ARUGAY — CALCULATED-DESIGNED BY — CHECKED BY — FUNCTIONAL SUPERVISOR — RAMSES SARGISS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — DESIGN

LAST REVISION 01-23-15 — DATE PLOTTED => 06-MAR-2015 — TIME PLOTTED => 10:05

## 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 |
|---|---|---|---|---|---|
| 04 | SCl | 17,85,87, 102,130,237 | Var | 10 | 27 |

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 3-2-15

**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 |
|---|---|---|---|---|---|
| 04 | SCl | 17,85,87, 102,130,237 | Var | 11 | 27 |

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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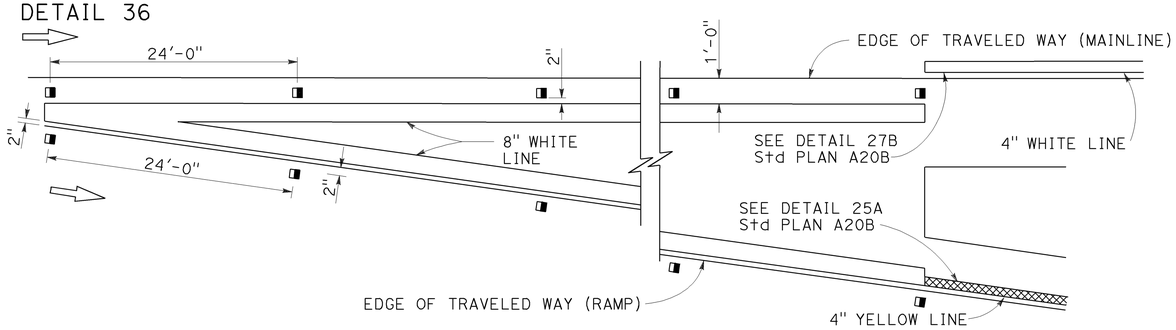
TO ACCOMPANY PLANS DATED 3-2-15

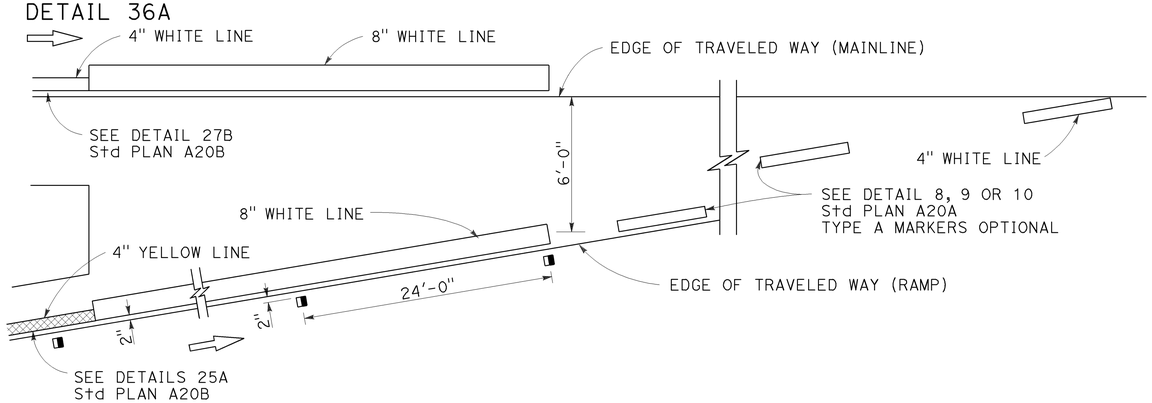
## EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

DETAIL 36



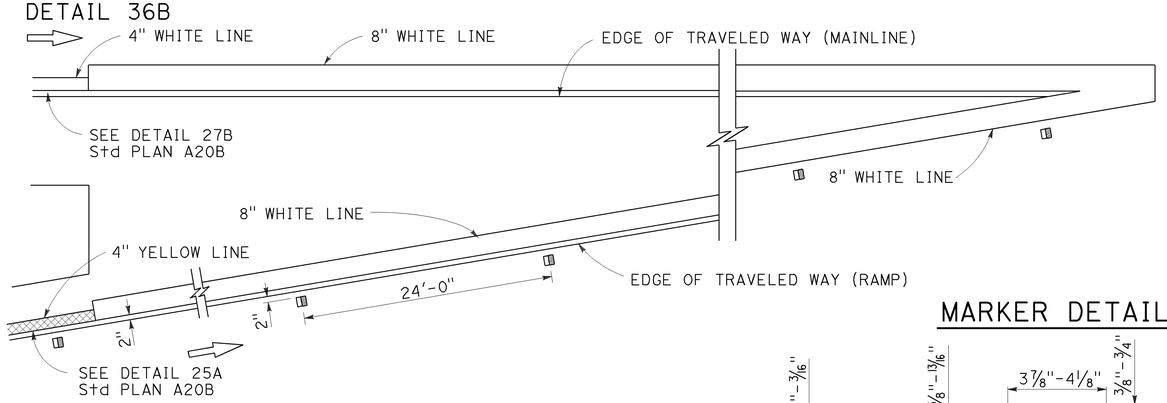

## ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT

DETAIL 36A



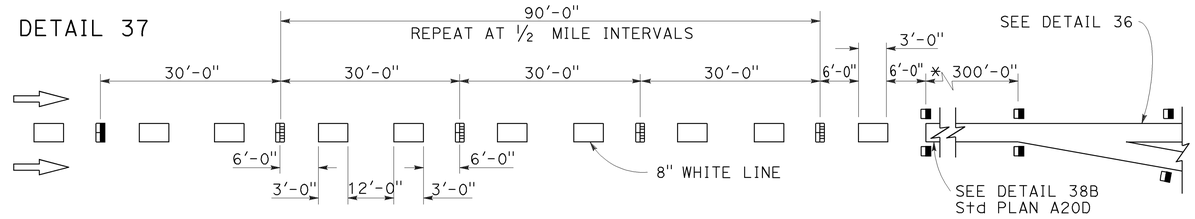

## ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

DETAIL 36B

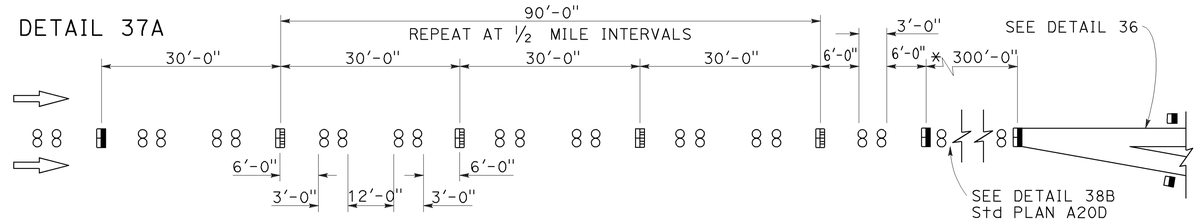



## LANE DROP AT EXIT RAMPS

DETAIL 37



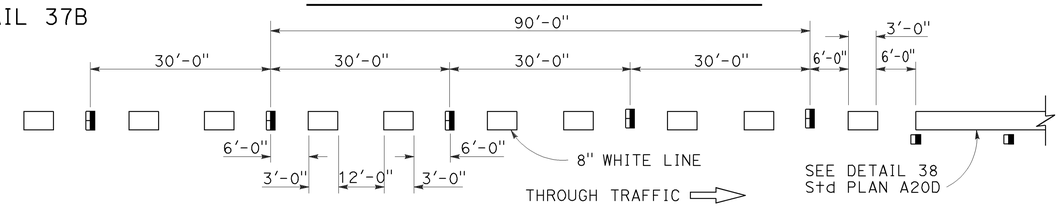

DETAIL 37A



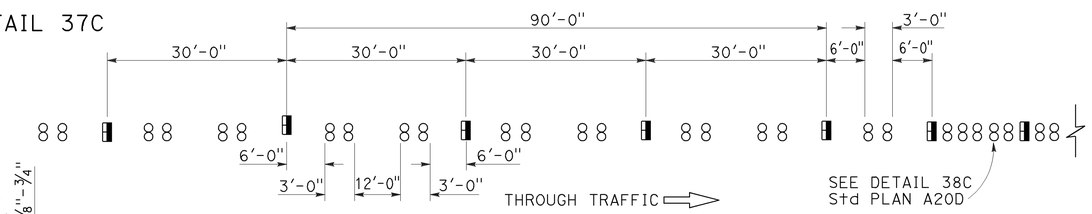

* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

## LANE DROP AT INTERSECTIONS

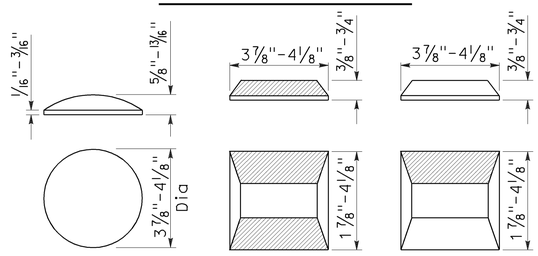
DETAIL 37B




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 |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 102,130,237 | Var | 12 | 27 |

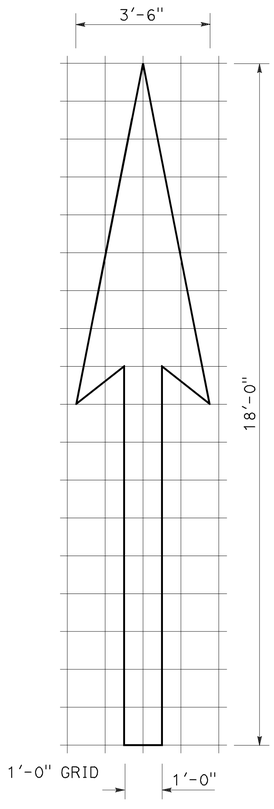
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

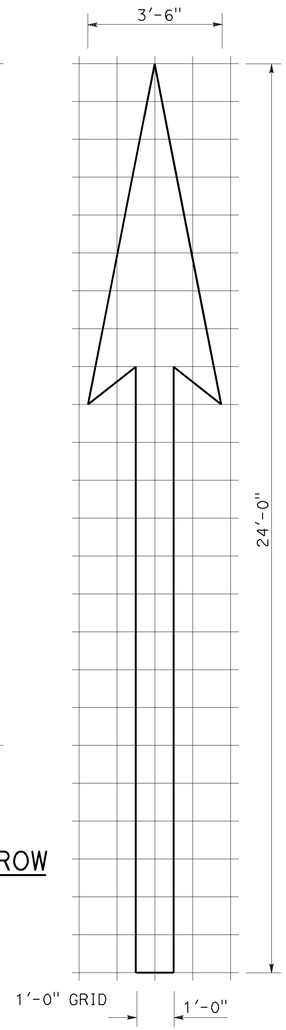
*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

TO ACCOMPANY PLANS DATED 3-2-15



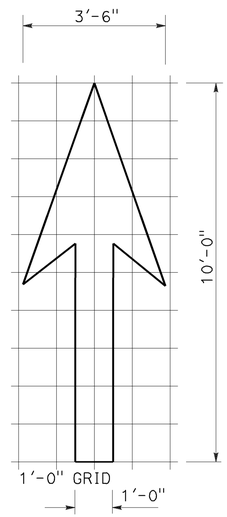

A=25 ft$^2$

TYPE I 18'-0" ARROW



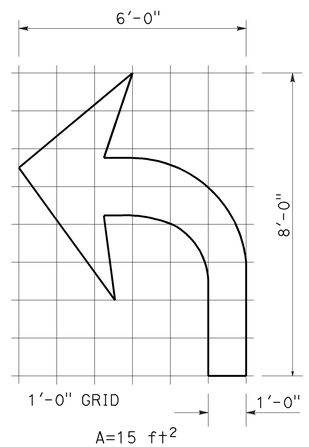

A=31 ft$^2$

TYPE I 24'-0" ARROW




A=14 ft$^2$

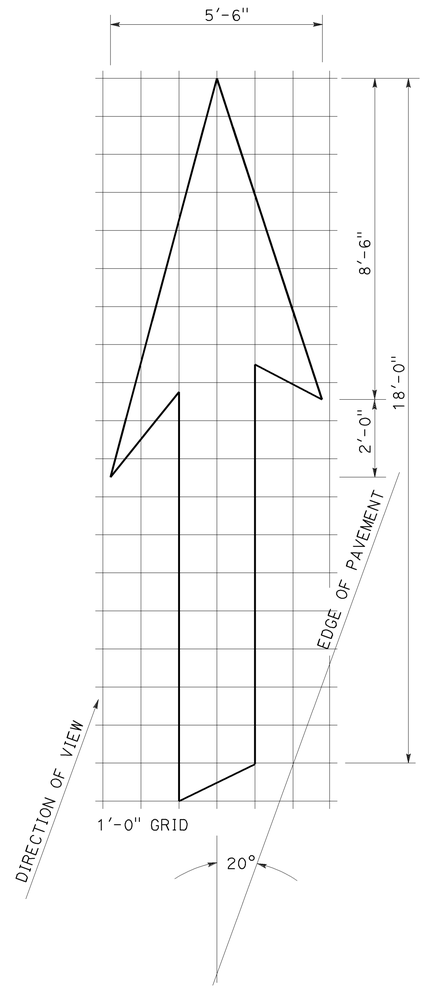
TYPE I 10'-0" ARROW




A=15 ft$^2$

TYPE IV (L) ARROW

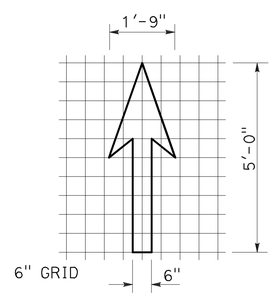
(For Type IV (R) arrow, use mirror image)




A=42 ft$^2$

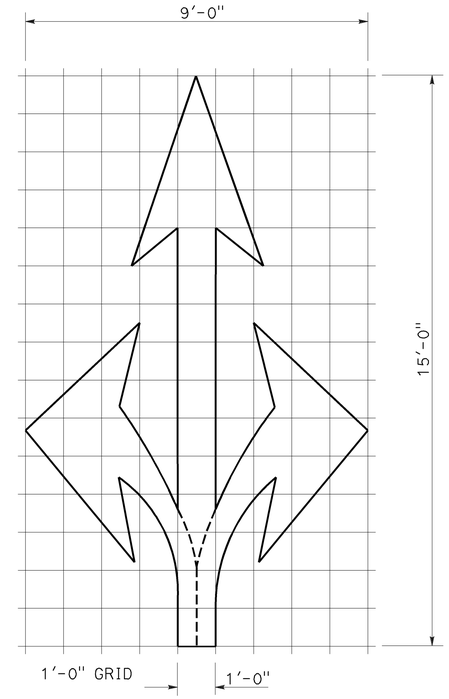
TYPE VI ARROW

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



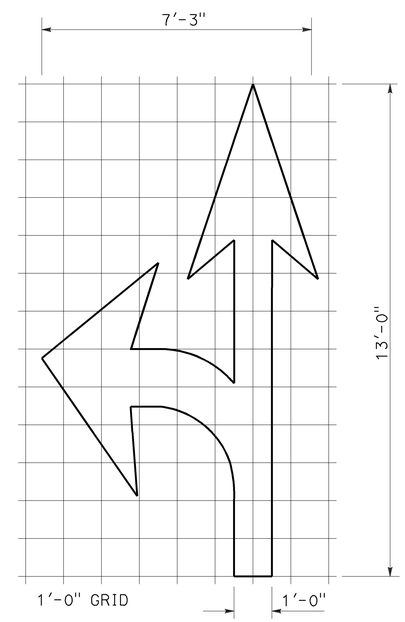

A=3.5 ft$^2$

BIKE LANE ARROW




A=36 ft$^2$

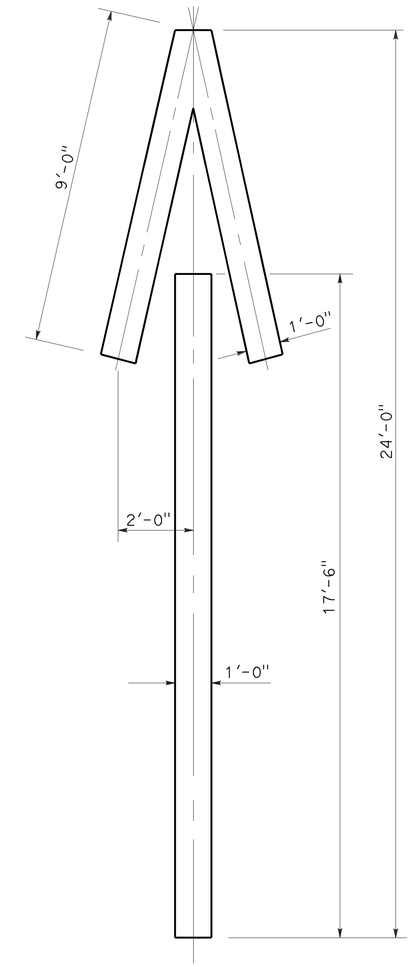
TYPE VIII ARROW




A=27 ft$^2$

TYPE VII (L) ARROW

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




A=33 ft$^2$

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 |
|---|---|---|---|---|---|
| 04 | SCl | 17,85,87, 102,130,237 | Var | 13 | 27 |

REGISTERED CIVIL ENGINEER

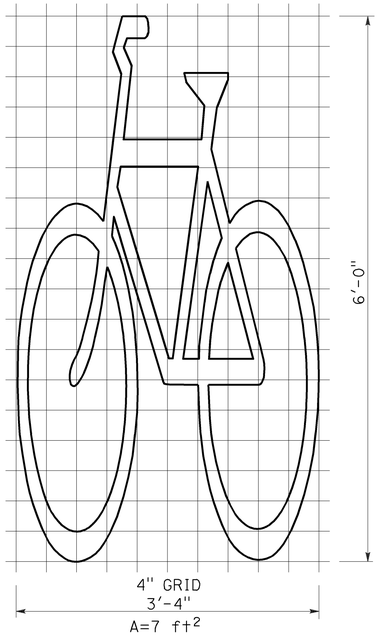
October 19, 2012
PLANS APPROVAL DATE

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

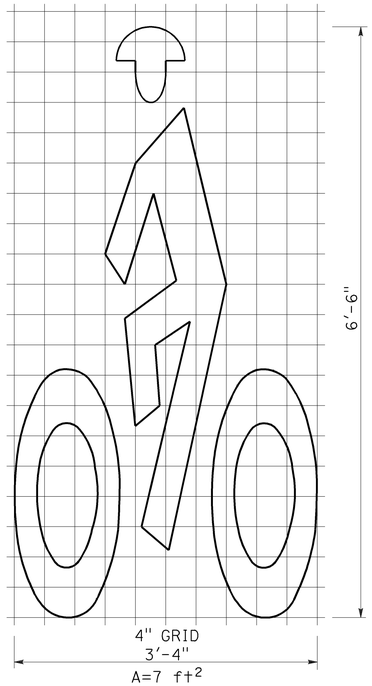
*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

**NOTE:** TO ACCOMPANY PLANS DATED 3-2-15

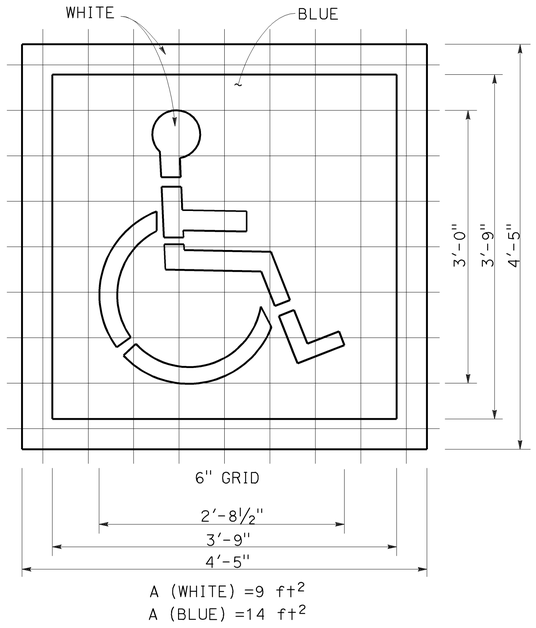
Minor variations in dimensions may be accepted by the Engineer.



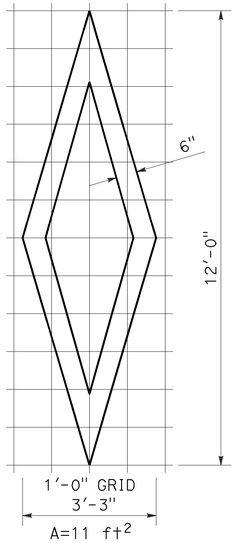

BIKE LANE SYMBOL WITHOUT PERSON



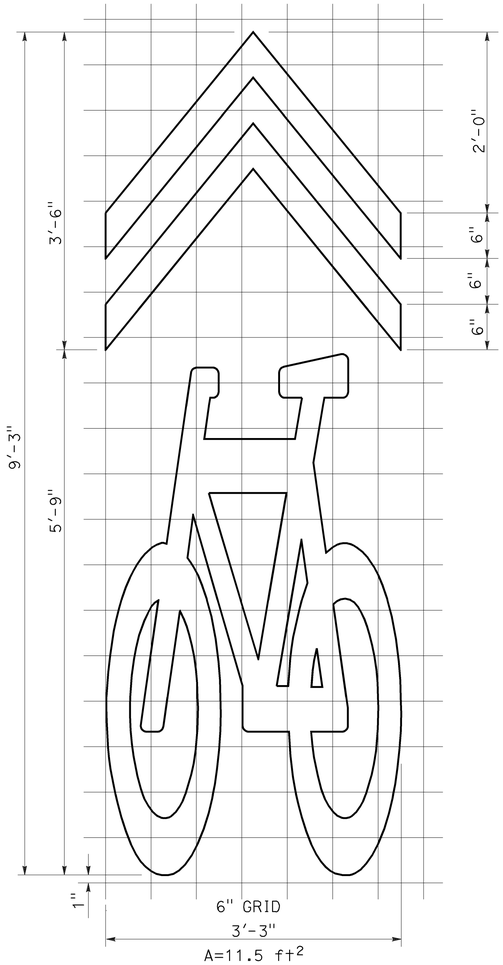

BIKE LANE SYMBOL WITH PERSON



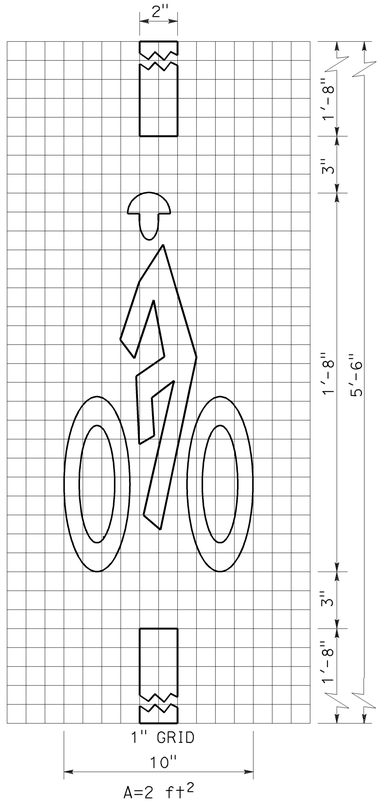

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



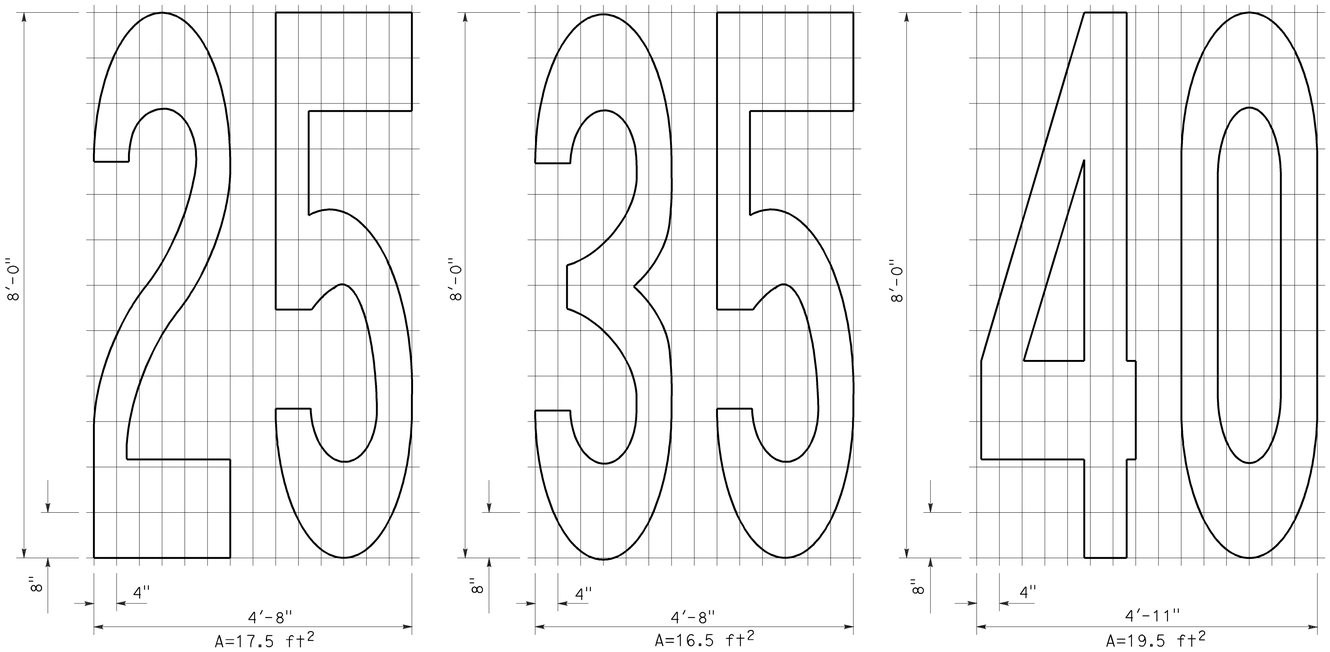

DIAMOND SYMBOL




SHARED ROADWAY BICYCLE MARKING




BICYCLE LOOP DETECTOR SYMBOL




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 |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 102,130,237 | Var | 14 | 27 |

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 3-2-15

## 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.

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**

**2010 REVISED STANDARD PLAN RSP T9**

4-30-13

TO ACCOMPANY PLANS DATED 3-2-15

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 102,130,237 | Var | 15 | 27 |

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.*

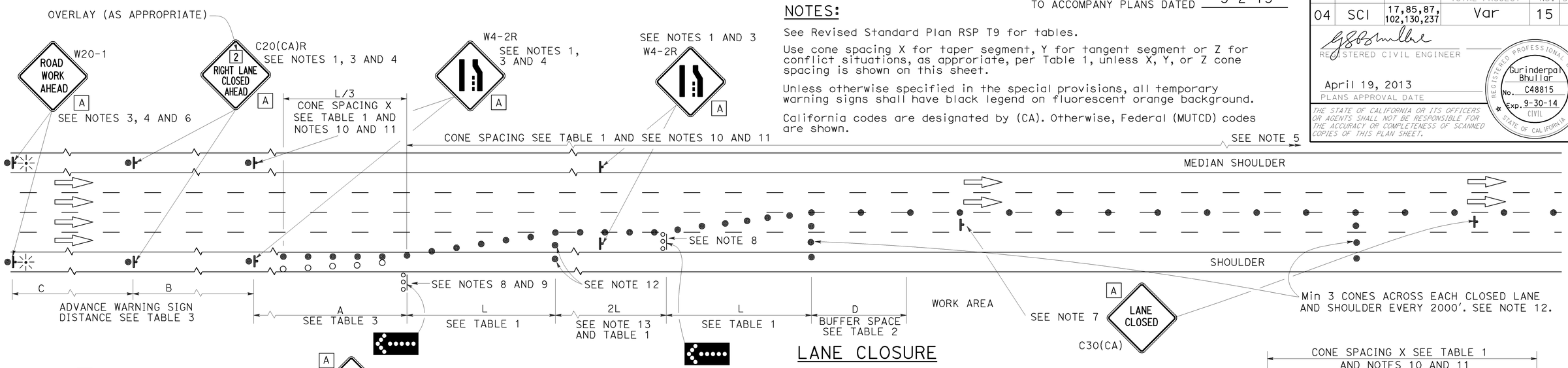
## NOTES:

See Revised Standard Plan RSP T9 for tables.

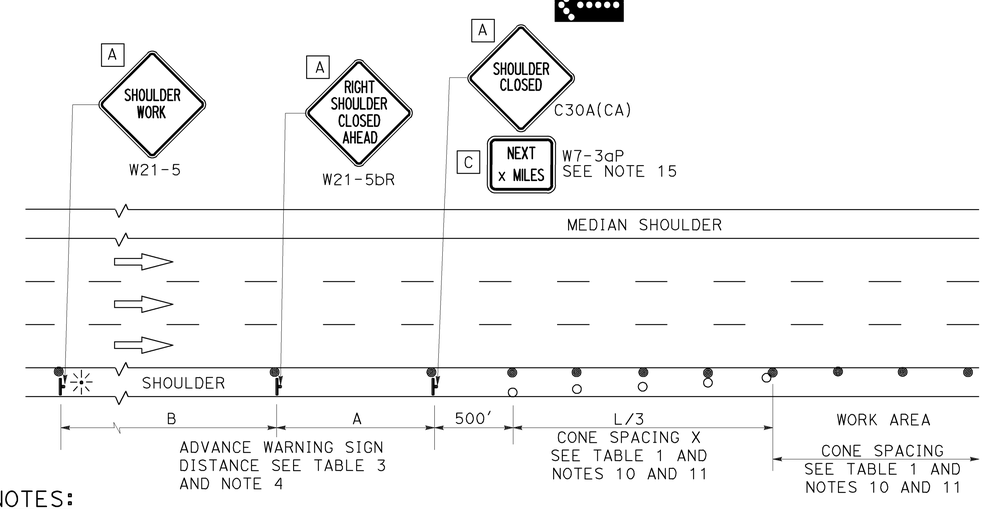
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

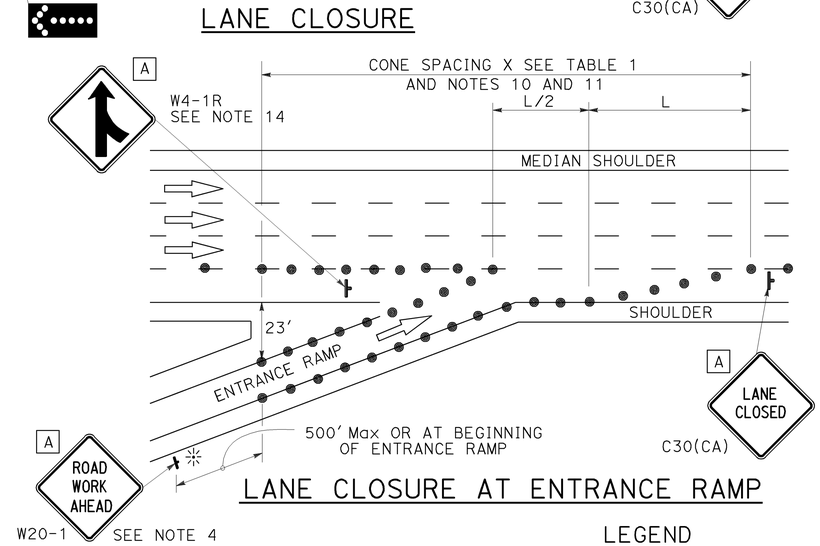
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



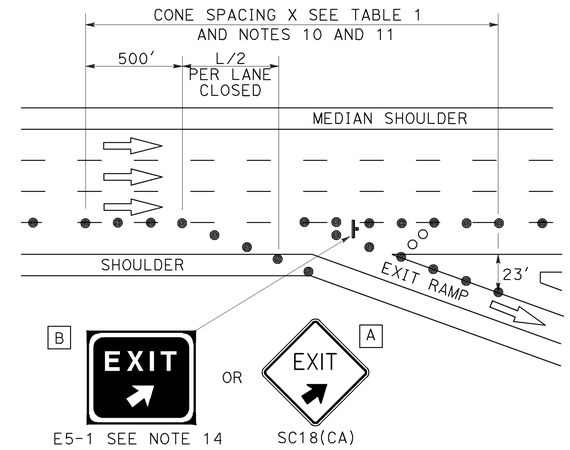

## LANE CLOSURE




## 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

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17,85,87, 102,130,237 | Var | 16 | 27 |

REGISTERED CIVIL ENGINEER

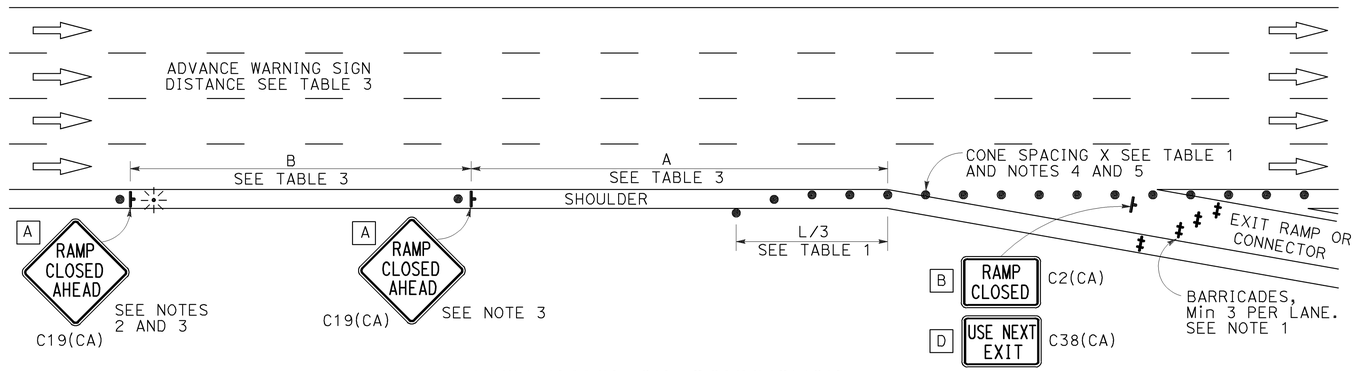
April 19, 2013
PLANS APPROVAL DATE

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

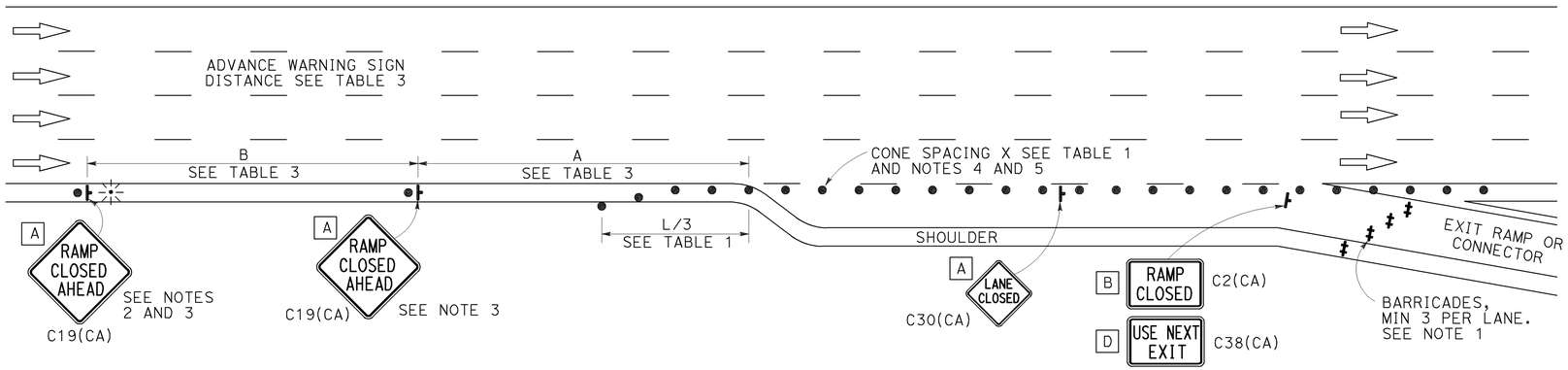
*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

TO ACCOMPANY PLANS DATED 3-2-15

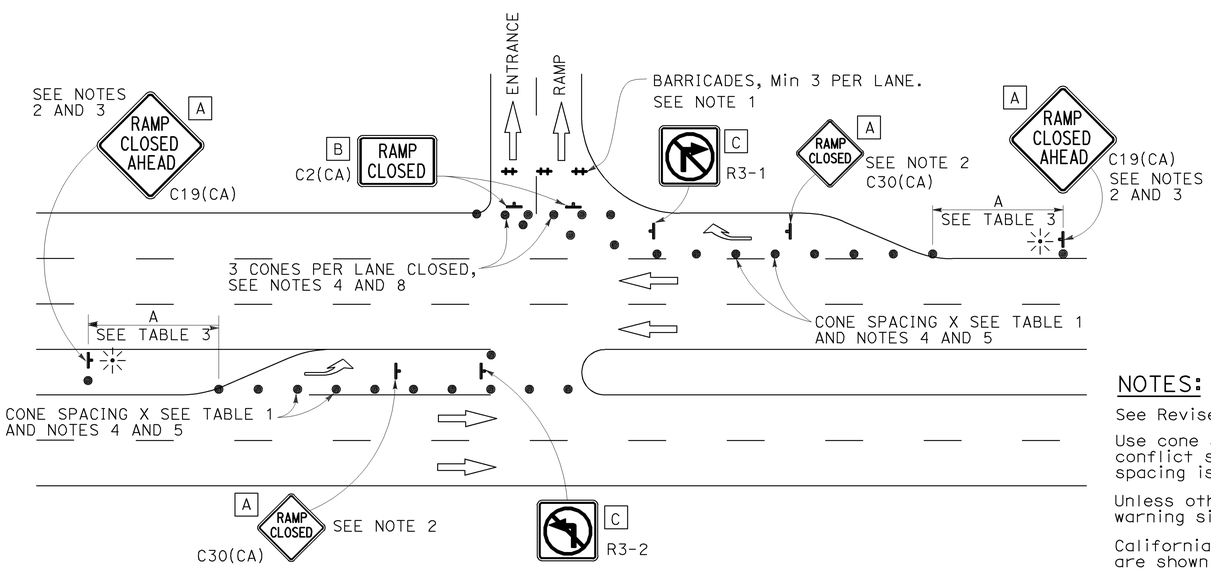
# TYPICAL RAMP CLOSURES




## EXIT RAMP OR CONNECTOR




## EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE




## ENTRANCE RAMP WITH TURNING POCKETS

## SIGN PANEL SIZE (Min)

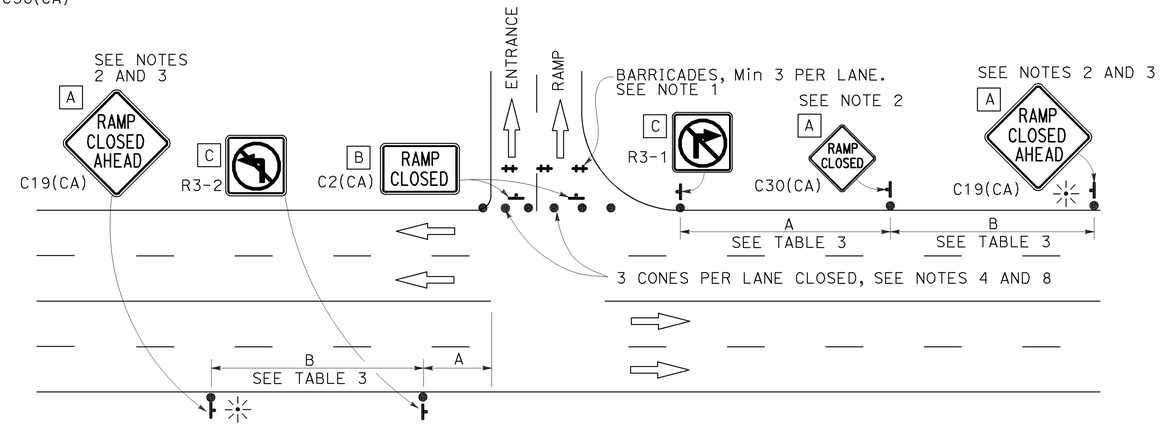
- A 48" × 48"
- B 48" × 30"
- C 36" × 36"
- D 48" × 36"

## LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- BARRICADES
- PORTABLE FLASHING BEACON

## 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.




## ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as 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 |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 17 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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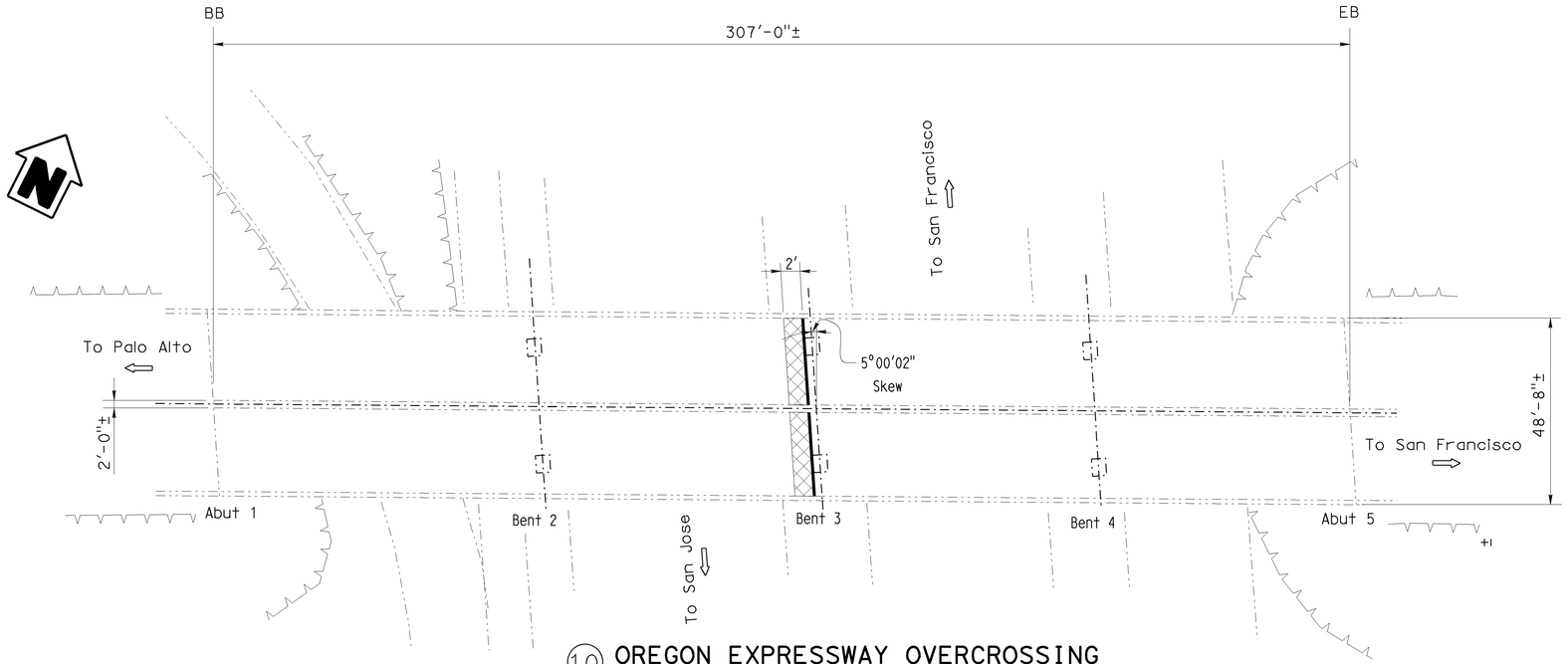



(10) OREGON EXPRESSWAY OVERCROSSING
BR. No. 37-0149, Rte 101, PM 52.0
NO SCALE

## INDEX TO PLANS


| SHEET No. | TITLE |
|---|---|
| 1 | GENERAL PLAN 1 |
| 2 | GENERAL PLAN 2 |
| 3 | GENERAL PLAN 3 |
| 4 | GENERAL PLAN 4 |
| 5 | GENERAL PLAN 5 |
| 6 | GENERAL PLAN 6 |
| 7 | GENERAL PLAN 7 |
| 8 | GENERAL PLAN 8 |
| 9 | GENERAL PLAN 9 |
| 10 | JOINT SEAL TABLE & DETAILS |
| 11 | DECK REPAIR & TREATMENT DETAILS |

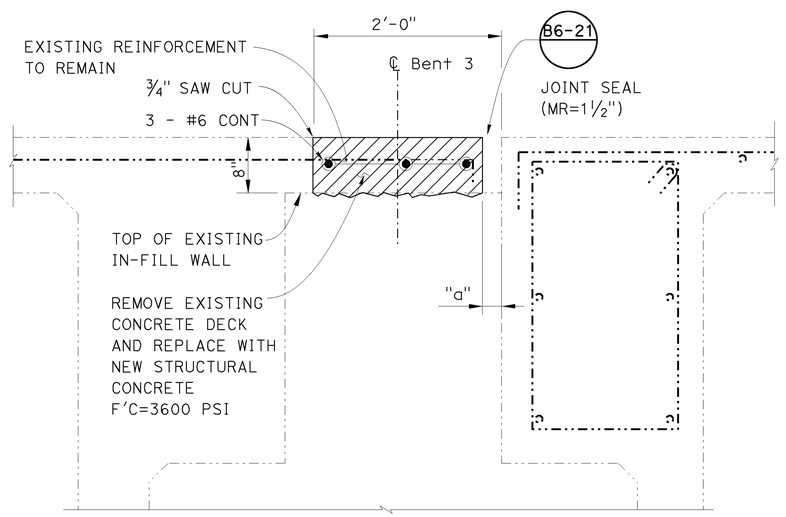

## STANDARD PLANS 2010

| SHEET No. | TITLE |
|---|---|
| A10A | ABBREVIATIONS (SHEET 1 OF 2) |
| RSP A10B | ABBREVIATIONS (SHEET 2 OF 2) |
| B6-21 | JOINT SEAL (MAXIMUM MOMENT RATING =2") |

OREGON EXPRESSWAY OVERCROSSING BRIDGE NO. 37-0149

QUANTITIES

| | |
|---|---|
| BRIDGE REMOVAL (PORTION), LOCATION A | LUMP SUM |
| STRUCTURAL CONCRETE, BRIDGE | 3 CY |
| CLEAN EXPANSION JOINT | 49 LF |
| JOINT SEAL (MR 1 1/2") | 49 LF |
| BAR REINFORCING STEEL (BRIDGE) | 219 LB |




## DECK REPAIR DETAIL

NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL, CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
- INDICATES DIRECTION OF TRAFFIC
- INDICATES BRIDGE LOCATION, SEE TITLE SHEET.
- INDICATES LIMITS OF REMOVE BRIDGE DECK & REPLACE WITH STRUCTURAL CONCRETE. SEE DETAIL IN "DECK REPAIR DETAIL".
- STANDARD PLAN SHEET NO.
- DETAIL NO.

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

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS

Hongyuan Su
DESIGN ENGINEER 05-19-14

| | BY | CHECKED | | | |
|---|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
| DETAILS | M. Yu | C. Lee | LAYOUT | M. Yu | C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | J. Mahe | PLANS AND SPECS COMPARED J. Mahe |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0149
POST MILE 52

OREGON EXPRESSWAY OC
GENERAL PLAN 1

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-6-14 10-14-14 2-3-15

SHEET 1 OF 11

FILE => R:\3E770\DRAFTING\FINAL_PS&E\04-3E7701gp001.dgn

USERNAME => s126849 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 09:53

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 18 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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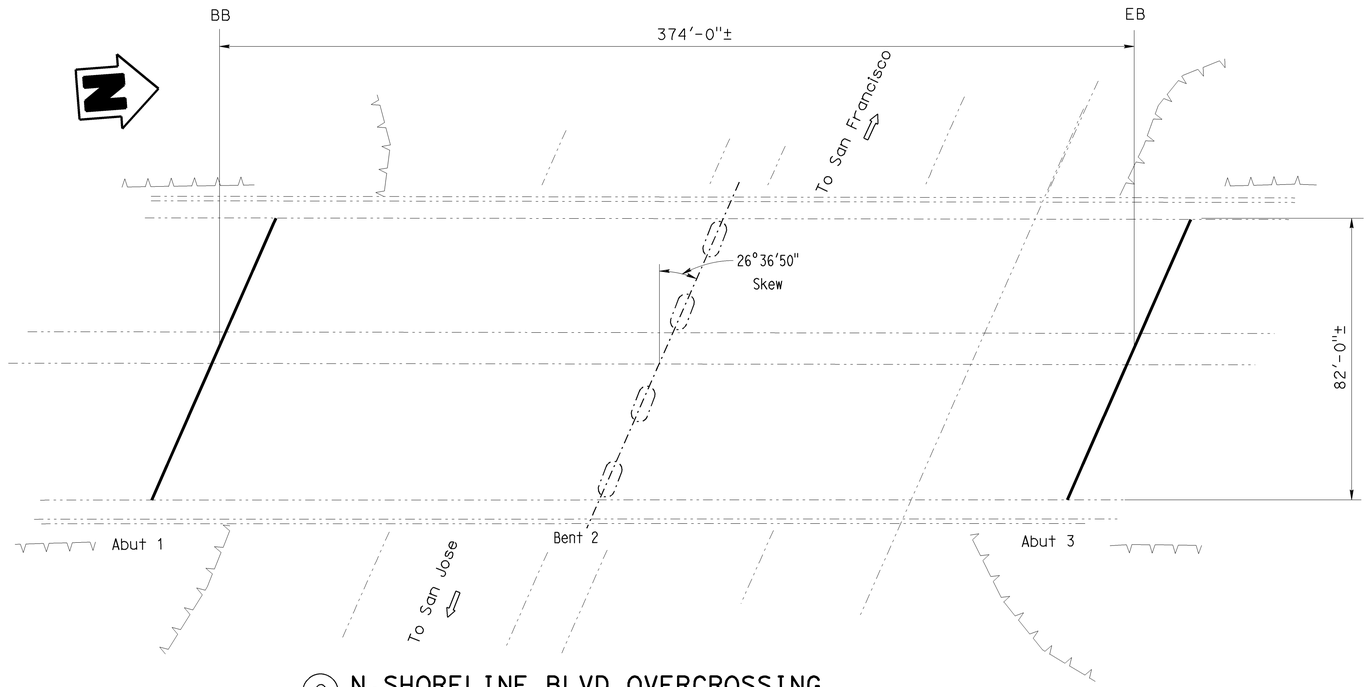


## (9) N.SHORELINE BLVD OVERCROSSING

BR. No. 37-0153, Rte 101, PM 48.6

NO SCALE

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL, CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.

INDICATES DIRECTION OF TRAFFIC

(–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

N. SHORELINE BLVD OVERCROSSING BRIDGE NO. 37-0153

QUANTITIES

| | | |
|---|---|---|
| CLEAN EXPANSION JOINT | 184 | LF |
| JOINT SEAL (MR 2") | 184 | LF |

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

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS

N.SHORELINE BLVD OC

GENERAL PLAN 2

DESIGN ENGINEER 05-19-14

| | BY | CHECKED | | | |
|---|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
| DETAILS | M. Yu | C. Lee | LAYOUT | M. Yu | C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | J. Mahe | PLANS AND SPECS COMPARED J. Mahe |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0153
POST MILE 48.6

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282 CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 8-21-14 10-6-14 10-14-14

SHEET 2 OF 11

FILE => R:\3E770\DRAFTING\FINAL_PS&E\04-3E7701gp002.dgn

USERNAME => s128649 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 09:55

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 19 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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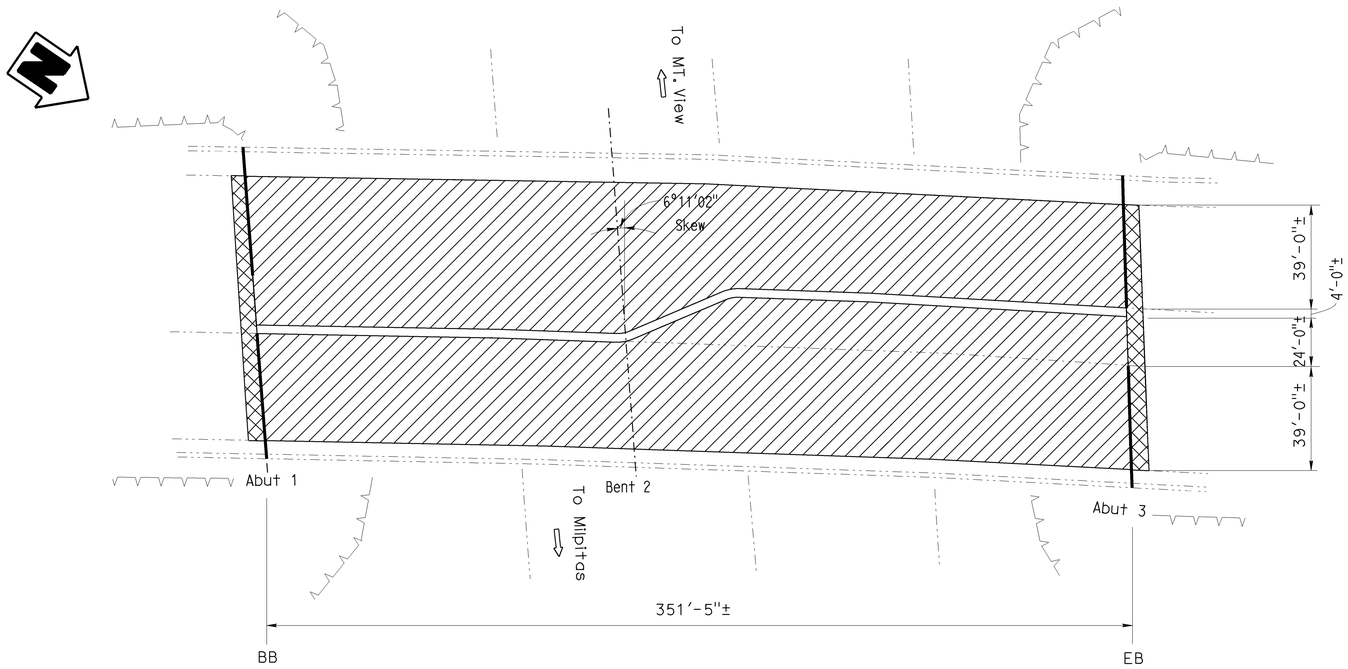


## (14) McCARTHY BLVD OVERCROSSING

BR. No. 37-0474, Rte 237, PM R8.92

NO SCALE

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL, CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.

INDICATES DIRECTION OF TRAFFIC

INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

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

INDICATES LIMITS OF REMOVE APPROACH SLAB AND REPLACE WITH STRUCTURAL CONCRETE. FOR DETAILS SEE "DECK REPAIR & TREATMENT DETAIL" SHEET.

MCCARTHY BLVD OVERCROSSING BRIDGE NO. 37-0474

QUANTITIES

| | |
|---|---|
| PUBLIC SAFETY PLAN | LUMP SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 35,853 SQFT |
| TREAT BRIDGE DECK | 35,853 SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 398 GAL |
| BRIDGE REMOVAL (PORTION), LOCATION B | LUMP SUM |
| STRUCTURAL CONCRETE, BRIDGE | 6 CY |
| CLEAN EXPANSION JOINT | 214 LF |
| JOINT SEAL (MR 2") | 214 LF |
| BAR REINFORCING STEEL (BRIDGE) | 637 LB |

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

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS

McCARTHY BLVD OC

GENERAL PLAN 3

| | | | | | |
|---|---|---|---|---|---|
| DESIGN ENGINEER 05-19-14 | DESIGN | BY C. Lee | CHECKED L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY M. Yu | CHECKED C. Lee | LAYOUT | BY M. Yu / CHECKED C. Lee |
| | QUANTITIES | BY C.Lee | CHECKED L. Ellis | SPECIFICATIONS | BY J. Mahe / PLANS AND SPECS COMPARED J. Mahe |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0474
POST MILE R8.92

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 8-18-14 8-21-14 10-6-14 10-14-14

SHEET 3 OF 11

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USERNAME = s126647 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 09:56

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCl | 17, 85, 87, 102,130, 237 | Var | 20 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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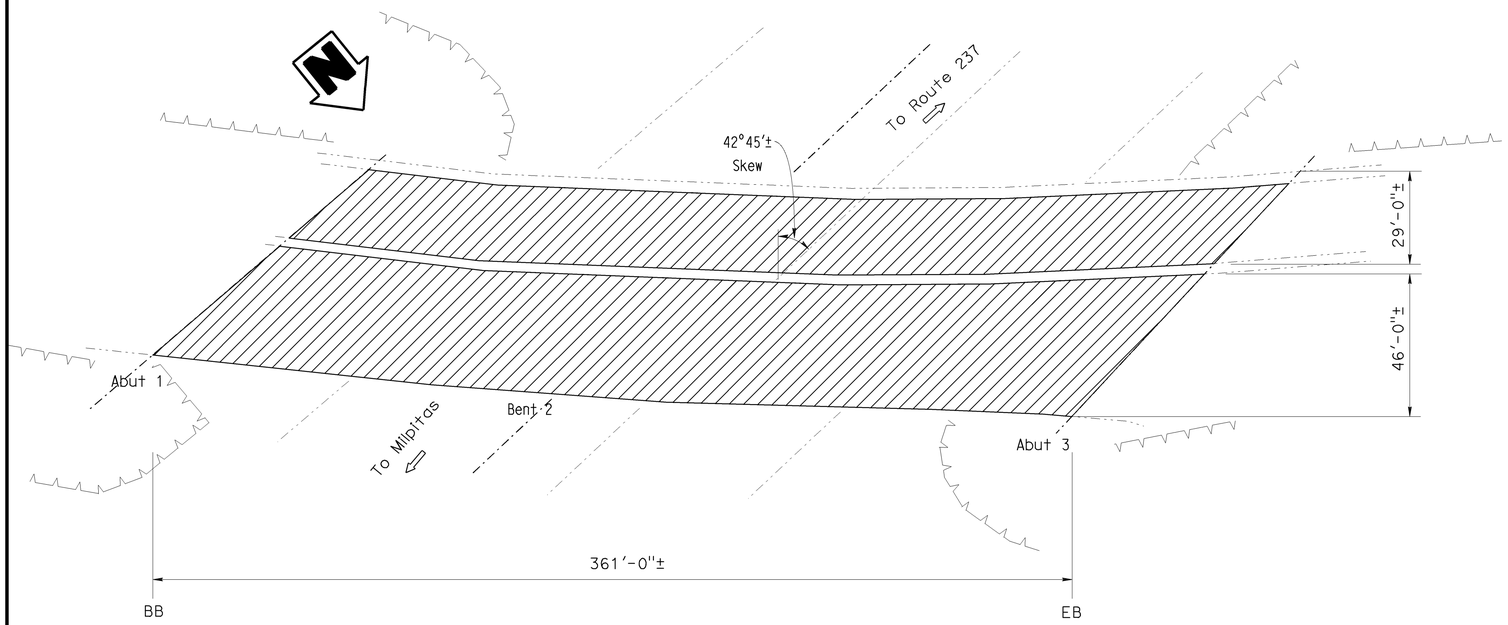



## (13) NORTH FIRST STREET OVERCROSSING

BR. No. 37-0485, Rte 237, PM 6.87

NO SCALE

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATE LIMITS OF PREPARE EXISTING BRIDGE DECK AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.

INDICATES DIRECTION OF TRAFFIC

(–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

NORTH FIRST STREET OVERCROSSING BRIDGE NO. 37-0485

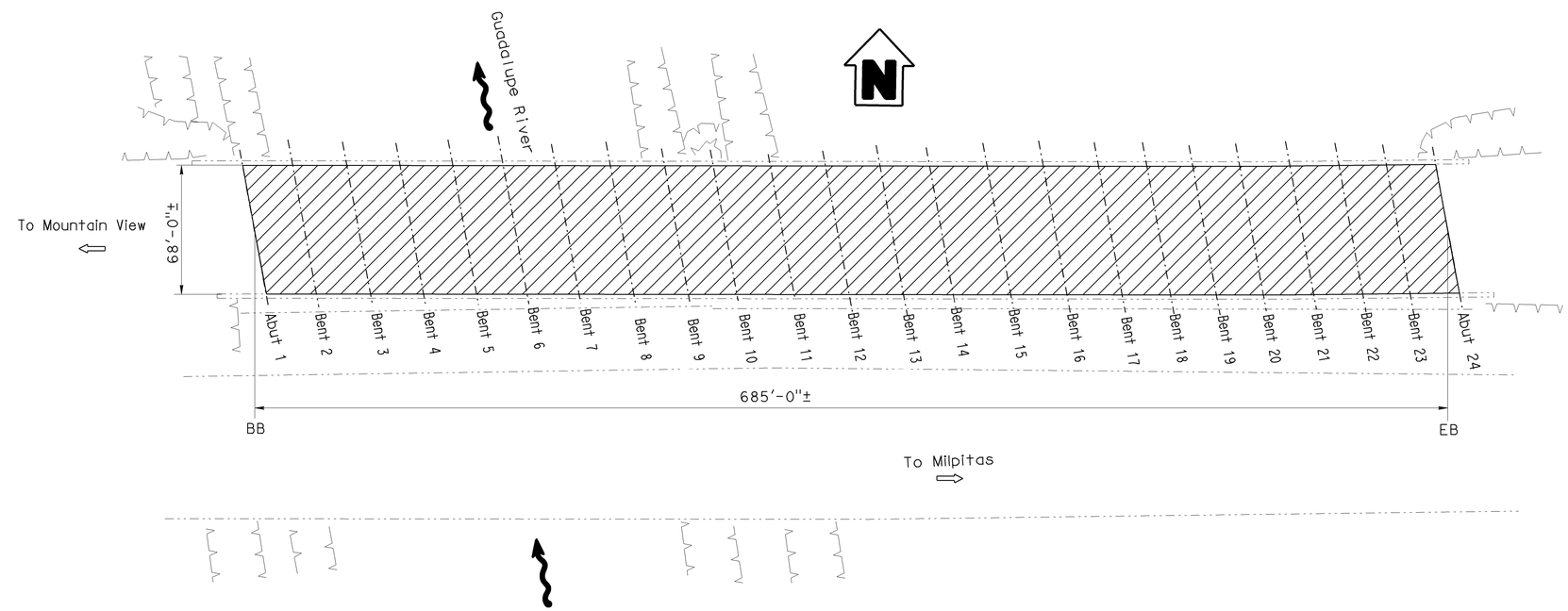
QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 27,075 | SQFT |
| TREAT BRIDGE DECK | 27,075 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 301 | GAL |

GUADALUPE RIVER BRIDGE NO. 37-0244L

QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 46,580 | SQFT |
| TREAT BRIDGE DECK | 46,580 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 518 | GAL |




## (12) GUADALUPE RIVER

BR. No. 37-0244L, Rte 237, PM R6.41

NO SCALE

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

# REPLACE JOINT SEALS AND TREAT BRIDGE DECKS
# NORTH FIRST STREET OC & GUADALUPE RIVER
# GENERAL PLAN 4

Hongyuan Su
DESIGN ENGINEER 05-19-14

| | BY | CHECKED | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
|---|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | | | |
| DETAILS | M. Yu | C. Lee | LAYOUT | M. Yu | C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | J. Mahe | PLANS AND SPECS COMPARED J. Mahe |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0485 37-0244L
POST MILE 6.87,R6.41

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-14-14 8-21-14 10-6-14

SHEET 4 OF 11

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 21 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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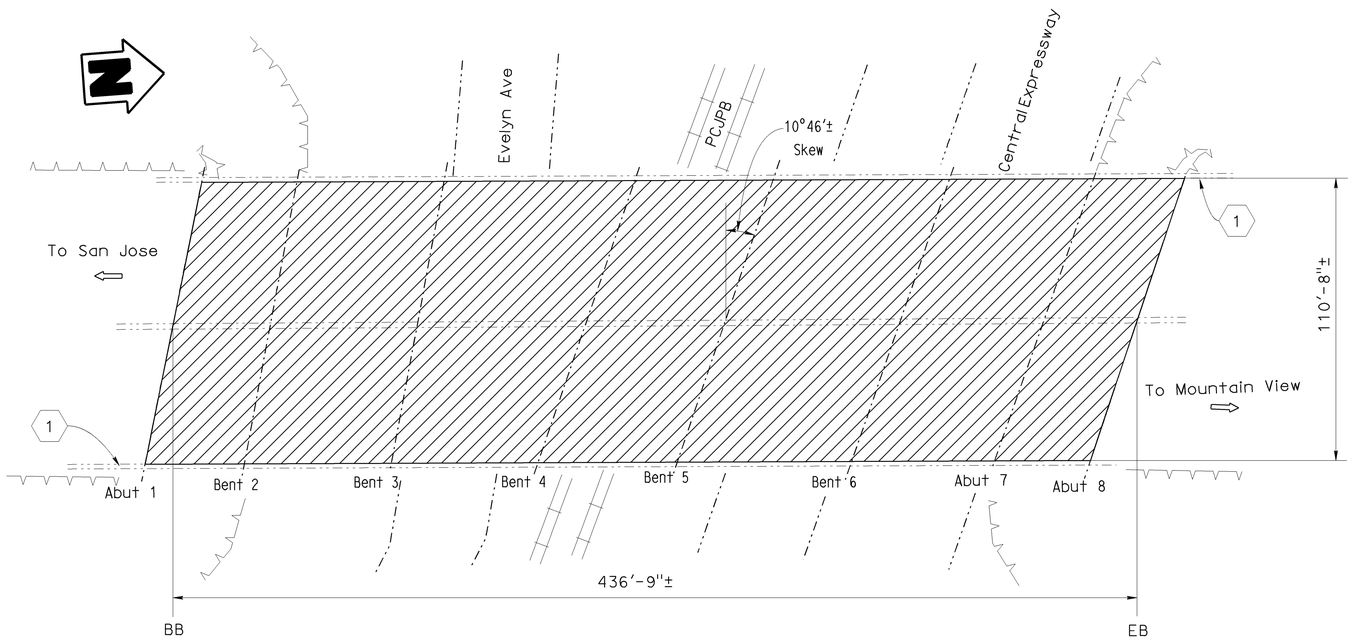



## (6) MOUNTAIN VIEW OVERHEAD
BR. No. 37-0207, Rte 85, PM 22.63
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL, CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
- INDICATES LIMITS OF PREPARE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- INDICATES DIRECTION OF TRAFFIC
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.
- (1) PAINT BRIDGE IDENTIFICATION ON BARRIER RAIL MOUNTAIN VIEW OH BR NO. 37-0207 PM 22.63 1965 & 1998
- (2) PAINT BRIDGE IDENTIFICATION ON BARRIER RAIL EAST SANTA CLARA ST OC BR NO. 37-0048 PM 0.01 1993

MOUNTAIN VIEW OVERHEAD BRIDGE NO. 37-0207

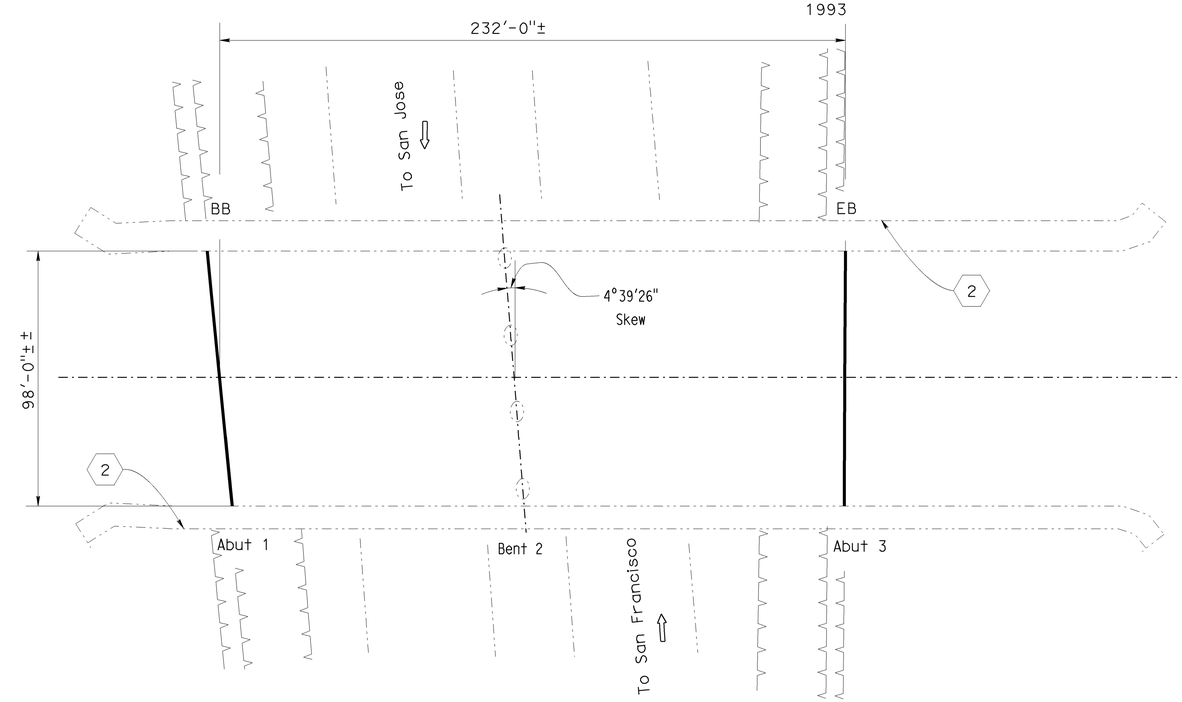
QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 48,335 | SQFT |
| TREAT BRIDGE DECK | 48,335 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 537 | GAL |
| PAINT BRIDGE IDENTIFICATION | 2 | EA |

EAST SANTA CLARA ST OC BRIDGE NO. 37-0048

QUANTITIES

| | | |
|---|---|---|
| CLEAN EXPANSION JOINT | 198 | LF |
| JOINT SEAL (MR 1 1/2") | 198 | LF |
| PAINT BRIDGE IDENTIFICATION | 2 | EA |




## (11) EAST SANTA CLARA ST OC
BR. No. 37-0048, Rte 101, PM R35.76
NO SCALE

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

Hongyuan Su
DESIGN ENGINEER 05-19-14

| | BY | CHECKED | | |
|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| DETAILS | M. Yu | C. Lee | LAYOUT | BY M. Yu / CHECKED C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | BY J. Mahe / PLANS AND SPECS COMPARED J. Mahe |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0207 37-0048
POST MILE 22.63,0.01

# REPLACE JOINT SEALS AND TREAT BRIDGE DECKS
## MOUNTAIN VIEW OH & SANTA CLARA SEPARATION
## GENERAL PLAN 5

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-14-14 2-2-15 2-3-15

SHEET 5 OF 11

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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 22 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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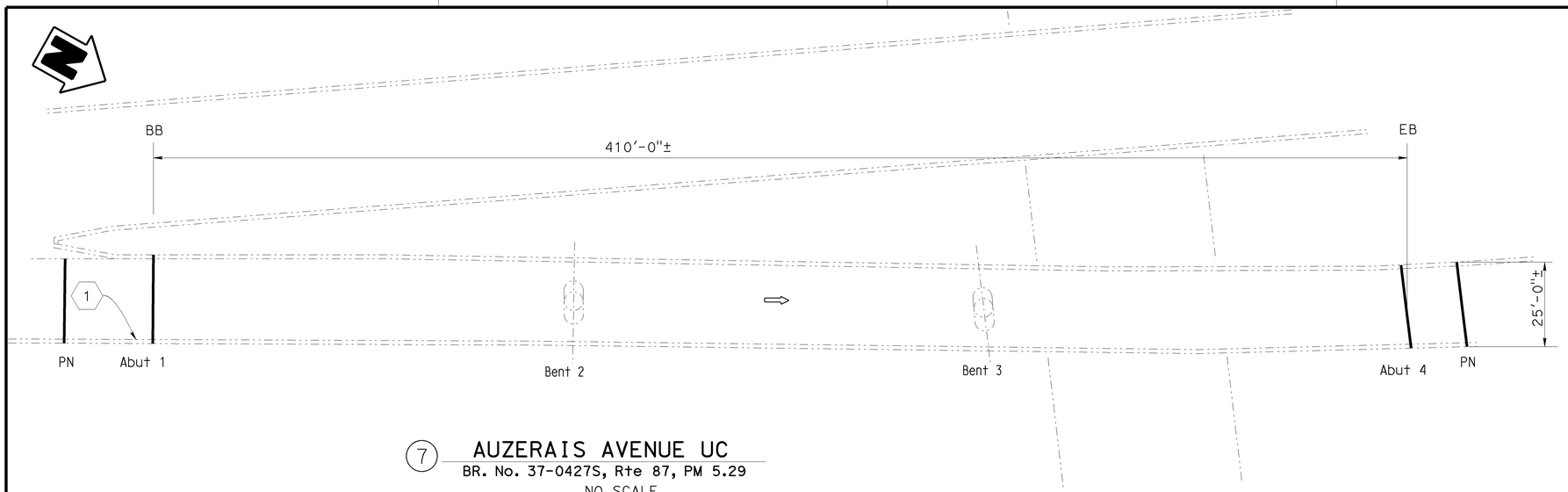



## (7) AUZERAIS AVENUE UC

BR. No. 37-0427S, Rte 87, PM 5.29
NO SCALE

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES LOCATION OF EXISTING JOINT SEAL REMOVAL, CLEAN EXPANSION JOINT AND PLACEMENT OF NEW JOINT SEAL. FOR DETAILS SEE "JOINT SEAL TABLE AND DETAILS" SHEET.
- INDICATES DIRECTION OF TRAFFIC
- (–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.
- INDICATES LIMITS OF PREPARE AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE.
- (1) PAINT BRIDGE IDENTIFICATION ON BARRIER RAIL
  AUZERAIS AVENUE UC
  BR NO. 37-0427S PM 5.29
  1988

AUZERAIS AVENUE UC BRIDGE NO. 37-0427S

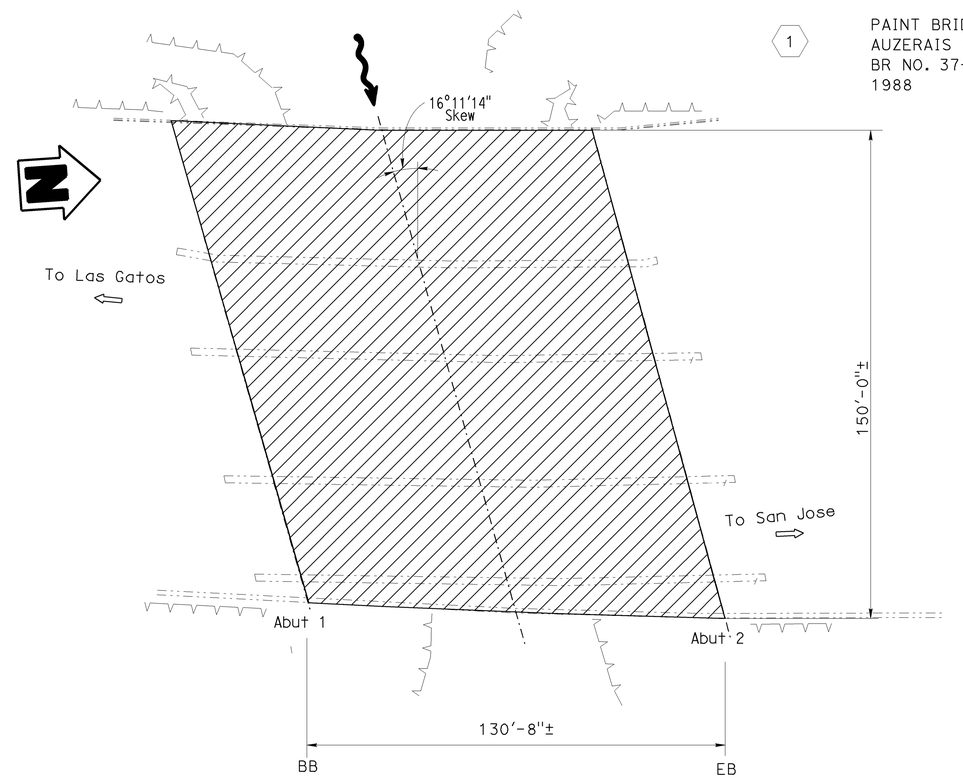
QUANTITIES

| | | |
|---|---|---|
| CLEAN EXPANSION JOINT | 100 | LF |
| JOINT SEAL (MR 1") | 50 | LF |
| JOINT SEAL (MR 2") | 50 | LF |
| PAINT BRIDGE IDENTIFICATION | 1 | EA |

LOS GATOS CREEK BRIDGE NO. 37-0134

QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 19,605 | SQFT |
| TREAT BRIDGE DECK | 19,605 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 218 | GAL |




## (5) LOS GATOS CREEK

BR. No. 37-0134, Rte 17, PM 12.03
NO SCALE

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

# REPLACE JOINT SEALS AND TREAT BRIDGE DECKS
# AUZERAIS AVE UC & LOS GATOS CREEK
# GENERAL PLAN 6

| | BY | CHECKED | | | |
|---|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
| DETAILS | M. Yu | C. Lee | LAYOUT | M. Yu | C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | J. Mahe | PLANS AND SPECS COMPARED J. Mahe |

Hongyuan Su
DESIGN ENGINEER 05-19-14

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0427S 37-0134
POST MILE VARIES

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 10-14-14 | 2-2-15 | | 10-6-14

SHEET 6 OF 11

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| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCl | 17, 85, 87, 102,130, 237 | Var | 23 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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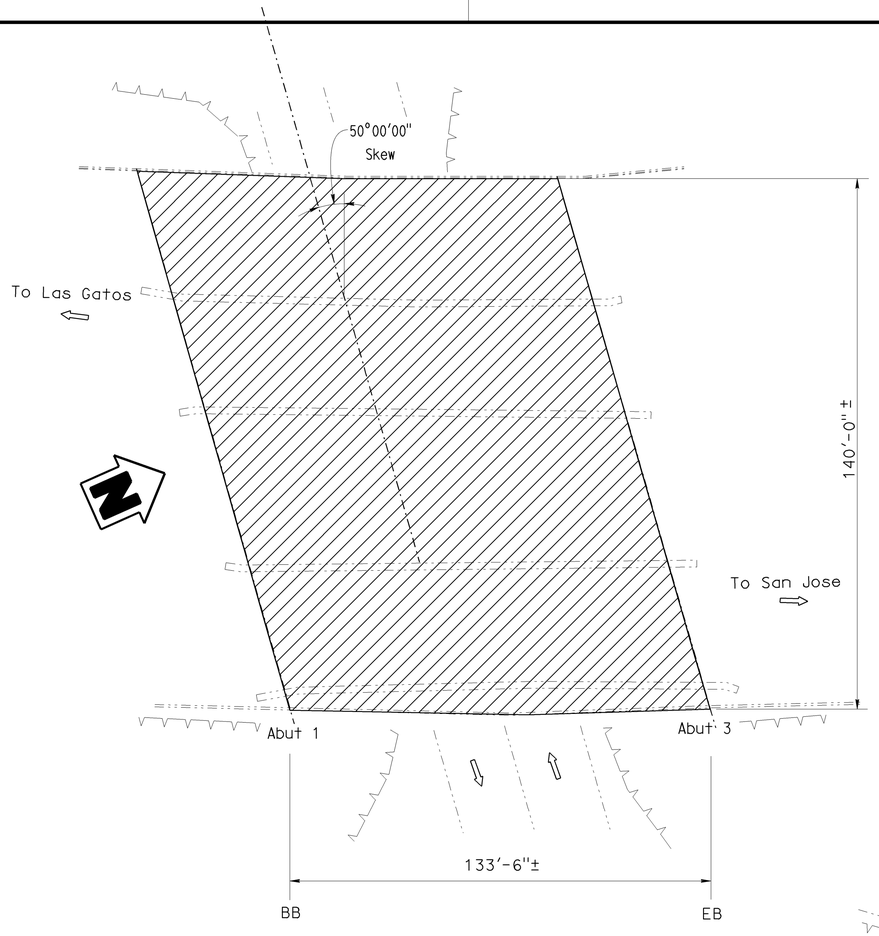



4 CAMPBELL AVENUE UC
BR. No. 37-0133, Rte 17, PM 11.8
NO SCALE

CAMPBELL AVENUE UC BRIDGE NO. 37-0133

QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 18,423 | SQFT |
| TREAT BRIDGE DECK | 18,423 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 205 | GAL |

LARK AVE ON-RAMP SEPARATION BRIDGE NO. 37-0498S

QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 18,800 | SQFT |
| TREAT BRIDGE DECK | 18,800 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 209 | GAL |
| PAINT BRIDGE IDENTIFICATION | 1 | EA |

LEGEND:

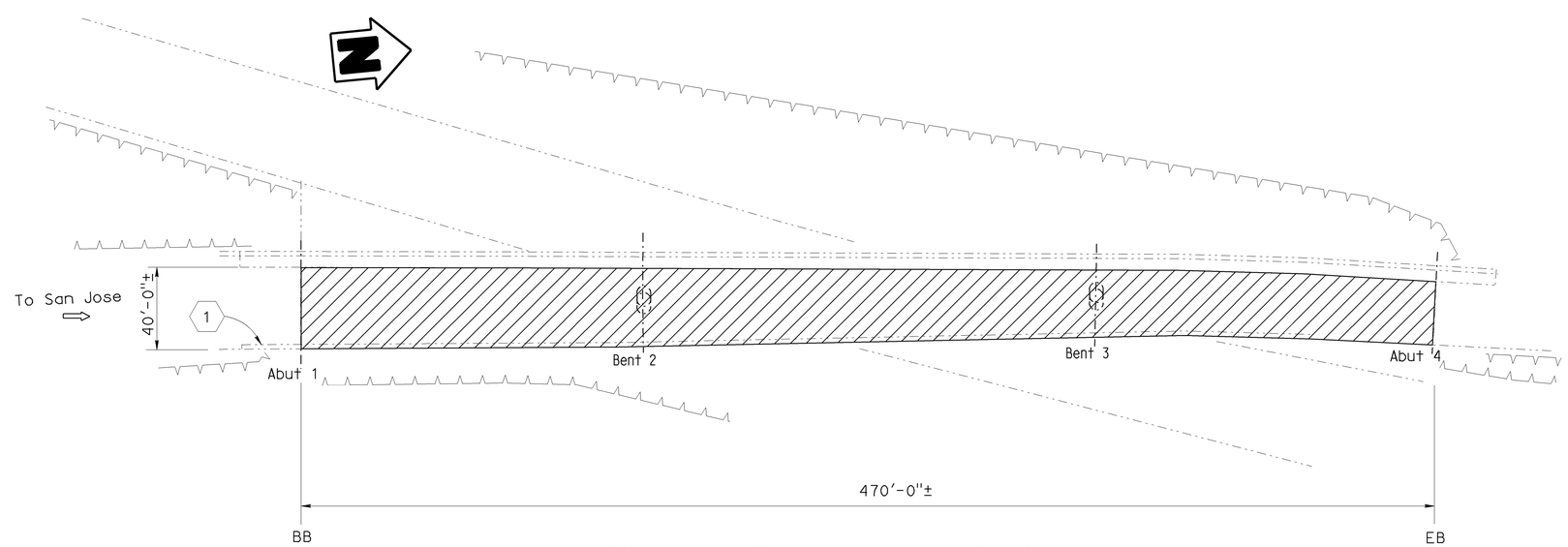
-·-·-·- INDICATES EXISTING STRUCTURE

⇨ INDICATES DIRECTION OF TRAFFIC

(–) INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

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

(1) PAINT BRIDGE IDENTIFICATION ON BARRIER RAIL
LARK AVE ON RAMP SEPARATION
BR NO. 37-0498S PM 8.98
1994




2 LARK AVE ON-RAMP SEPARATION
BR. No. 37-0498S, Rte 17, PM 8.98
NO SCALE

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

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS
CAMPBELL AVE UC & LARK AVE ON-RAMP SEPARATION
GENERAL PLAN 7

| | BY | CHECKED | | | |
|---|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
| DETAILS | M. Yu | C. Lee | LAYOUT | M. Yu | C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | J. Mahe | PLANS AND SPECS COMPARED J. Mahe |

Hongyuan Su
DESIGN ENGINEER 05-19-14

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0133 37-0498S
POST MILE VARIES

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282 CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 8-21-14 10-6-14 10-14-14 2-2-15

SHEET 7 OF 11

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USERNAME => s126849 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 09:57

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 24 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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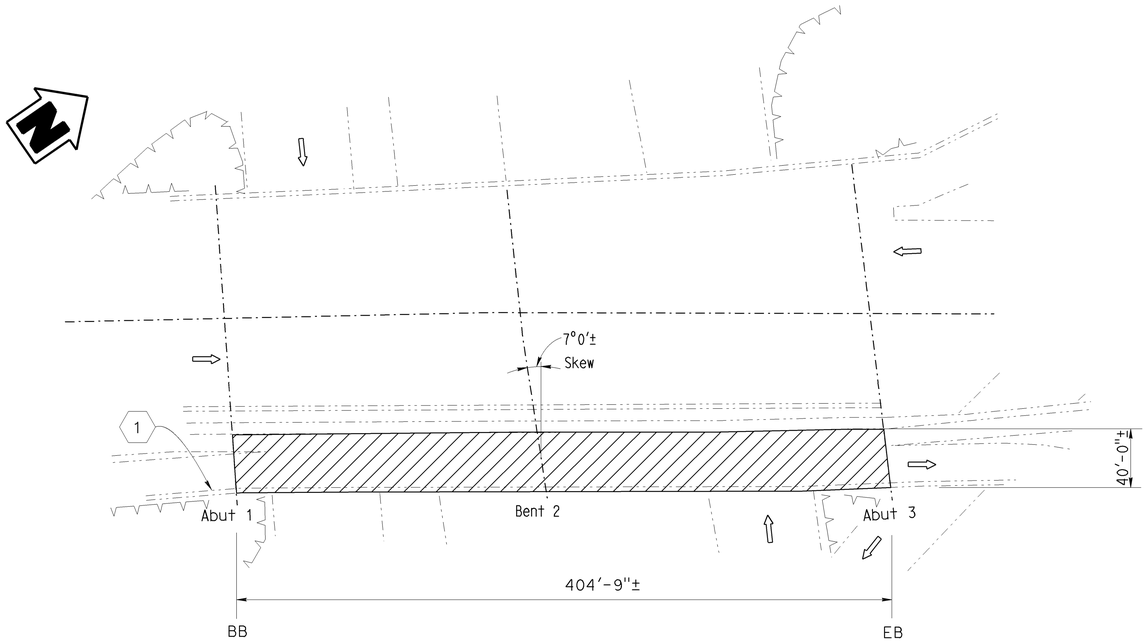



③ ROUTE 17/85 SEPARATION
BR. No. 37-0493H, Rte 17, PM 9.32
NO SCALE

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES DIRECTION OF TRAFFIC

INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

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

(1) PAINT BRIDGE IDENTIFICATION ON BARRIER RAIL
ROUTE 17/85 SEPARATION
BR NO. 37-0493H PM 9.32
1994

(2) PAINT BRIDGE IDENTIFICATION ON BARRIER RAIL
BEAR CREEK ROAD OC
BR NO. 37-0565 PM 4.30
1996

ROUTE 17/85 SEPARATION BRIDGE NO. 37-0493H

QUANTITIES

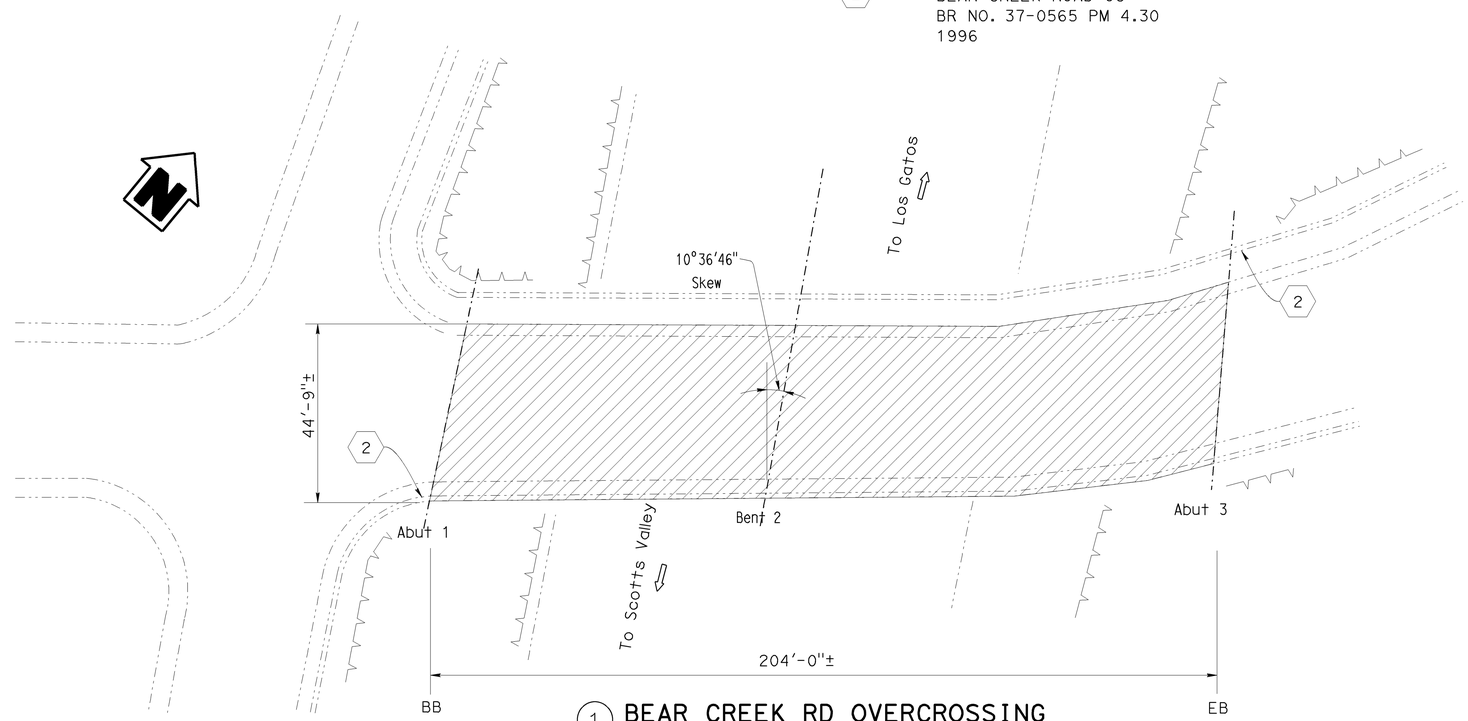
| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 16,192 | SQFT |
| TREAT BRIDGE DECK | 16,192 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 180 | GAL |
| PAINT BRIDGE IDENTIFICATION | 1 | EA |

BEAR CREEK RD OVERCROSSING BRIDGE NO. 37-0565

QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 8,976 | SQFT |
| TREAT BRIDGE DECK | 8,976 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 100 | GAL |
| PAINT BRIDGE IDENTIFICATION | 2 | EA |

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




① BEAR CREEK RD OVERCROSSING
BR. No. 37-0565, Rte 17, PM 4.30
NO SCALE

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS
ROUTE 17/85 SEPARATION & BEAR CREEK RD OC
GENERAL PLAN 8

| | | | | | |
|---|---|---|---|---|---|
| Hongyuan Su DESIGN ENGINEER 05-19-14 | DESIGN | BY C. Lee | CHECKED L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD |
| | DETAILS | BY M. Yu | CHECKED C. Lee | LAYOUT | BY M. Yu / CHECKED C. Lee |
| | QUANTITIES | BY C.Lee | CHECKED L. Ellis | SPECIFICATIONS | BY J. Mahe / PLANS AND SPECS COMPARED J. Mahe |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0493H 37-0565
POST MILE 9.4,4.3

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282 CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-14-14 2-2-15 10-6-14

SHEET 8 OF 11

FILE => R:\3E770\DRAFTING\FINAL_PS&E\04-3E7701gp008.dgn

USERNAME => s126849 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 09:58

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 25 | 27 |

REGISTERED CIVIL ENGINEER 05-19-14 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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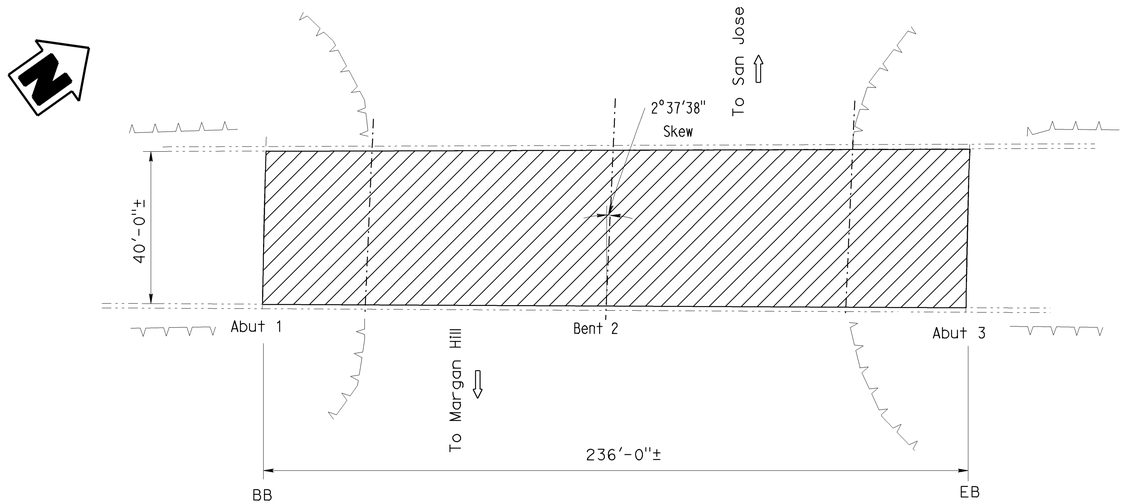
To get to the Caltrans web site, go to: http://www.dot.ca.gov




(8) METCALF ROAD OC
BR. No. 37-0339, Rte 101, PM R25.31
NO SCALE

LEGEND:

INDICATES EXISTING STRUCTURE

INDICATES DIRECTION OF TRAFFIC

INDICATES BRIDGE LOCATION, SEE TITLE SHEET.

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

METCALF ROAD OVERCROSSING BRIDGE NO. 37-0339

QUANTITIES

| | | |
|---|---|---|
| PUBLIC SAFETY PLAN | LUMP | SUM |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 9,440 | SQFT |
| TREAT BRIDGE DECK | 9,440 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 105 | GAL |

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

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS

METCALF ROAD OC

GENERAL PLAN 9

| | BY | CHECKED | | | |
|---|---|---|---|---|---|
| DESIGN | C. Lee | L. Ellis | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
| DETAILS | M. Yu | C. Lee | LAYOUT | M. Yu | C. Lee |
| QUANTITIES | C.Lee | L. Ellis | SPECIFICATIONS | J. Mahe | PLANS AND SPECS COMPARED J. Mahe |

Hongyuan Su
DESIGN ENGINEER 05-19-14

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. 37-0339
POST MILE R25.31

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT 0974
PROJECT NUMBER & PHASE: 0413000282 CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 8-21-14 10-6-14 10-14-14 2-2-15

SHEET 9 OF 11

FILE => R:\3E770\DRAFTING\FINAL_PS&E\04-3E7701gp009.dgn

USERNAME => s126849 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 09:58

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102, 130, 237 | Var | 26 | 27 |

REGISTERED CIVIL ENGINEER 05-19-13 DATE

3-2-15
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

# JOINT SEAL TABLE

| BRIDGE LOCATION | BRIDGE NUMBER | JOINT LOCATION | Min. "MR" (in) | APPROX. LENGTH (ft) | EXISTING WATERSTOP | APPROX. DEPTH TO CLEAN |
|---|---|---|---|---|---|---|
| 10 | 37-0149 | Bent 3 | 1 1/2 | 49 | NO | 12 |
| | | | | | | |
| 9 | 37-0153 | Abutment 1 | 2 | 92 | NO | 12 |
| | | Abutment 3 | 2 | 92 | NO | 12 |
| 14 | 37-0474 | Abutment 1 | 2 | 107 | NO | 12 |
| | | Abutment 3 | 2 | 107 | NO | 12 |
| 11 | 37-0048 | Abutment 1 | 1 1/2 | 99 | NO | 12 |
| | | Abutment 3 | 1 1/2 | 99 | NO | 12 |
| 7 | 37-0427S | South PN | 1 | 25 | NO | 12 |
| | | Abutment 1 | 2 | 25 | NO | 12 |
| | | Abutment 4 | 2 | 25 | NO | 12 |
| | | North PN | 1 | 25 | NO | 12 |

NOTE: SEE TITLE SHEET FOR BRIDGE LOCATION

THE FOLLOWING NOTES APPLY TO JOINT SEAL TYPE A:

INSTALL TYPE A JOINT SEAL 3" UP INTO CURB OR RAIL ON THE LOW SIDE OF THE DECK WHERE JOINT MATCHES CURB OR RAIL JOINT. SEE DETAILS.

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 CALCULATED 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.

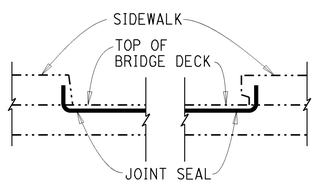
B) THE WIDTH OF THE SEAL ON THE THIRD SUCCESIVE TEST CYCLE OF THE PRESSURE DEFLECTION TEST, WHEN COMPRESSED TO AN AVERAGE PRESSURE OF 3 PSI.

4) BEND TYPE B JOINT SEAL 6" UP INTO CURB OR RAIL ON THE LOW SIDE OF THE DECK WHERE DECK JOINT MATCHES CURB OR RAIL JOINT.

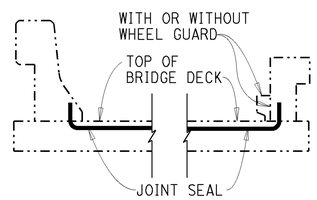
## TEMPORARY DECKING DESIGN LOAD CRITERIA

| MOMENT DEMAND/ FOOT $\left(\frac{\text{KIPS-FT}}{\text{FT}}\right)$ | BOLT SHEAR/FOOT $\left(\frac{\text{KIPS}}{\text{FT}}\right)$ | BOLT TENSION (KIPS) |
|---|---|---|
| 6.0 | 4.5 | 5.5 |

NOTE:
PLATE THICKNESS SHALL BE > 7/8".
MAXIMUM SPACING OF ANCHORAGE SHALL NOT EXCEED 12".
ANCHORAGE WASHER SHALL BE NEOPRENE OR SIMILAR.
PLATE DEFLECTION SHALL NOT BE GREATER THAN S/300 (S=SPAN OF PLATE).



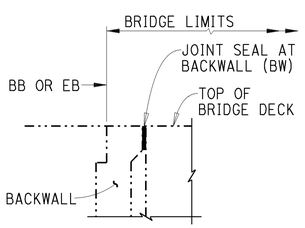

SIDEWALK



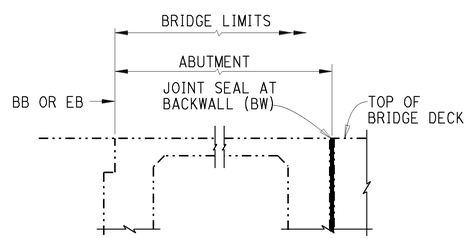

BARRIER RAIL

## JOINT SEAL AT LOW SIDE OF DECK

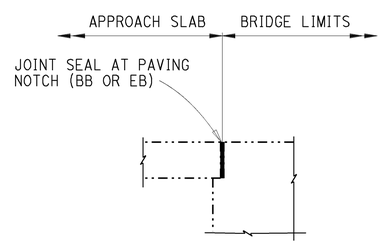
DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
FOR USE ONLY WHERE DECK JOINT MATCHES SIDEWALK, CURB OR BARRIER RAIL JOINT.
NO SCALE



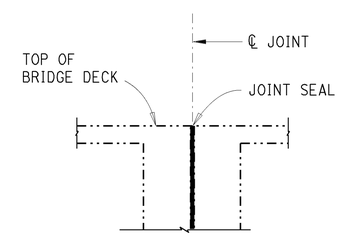

ABUTMENT WITH BACKWALL



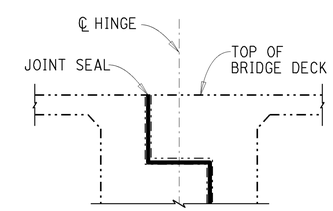

BIN TYPE ABUTMENT




DIAPHRAGM ABUTMENT




BENT




HINGE

## JOINT SEAL LOCATION

NO SCALE

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

REPLACE JOINT SEALS AND TREAT BRIDGE DECKS

| | BY | CHECKED |
|---|---|---|
| DESIGN | Christopher T. Lee | L. Ellis |
| DETAILS | M. Yu | Christopher T. Lee |
| QUANTITIES | Christopher T. Lee | L. Ellis |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO. Various
POST MILE Varies

VARIOUS BRIDGES
JOINT SEAL TABLE & DETAILS

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0976
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 10-14-14 8-21-14 10-6-14

SHEET 10 OF 11

FILE => 04-3E7701jtdt001.dgn

USERNAME => s126849 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 08:59

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SCI | 17, 85, 87, 102,130, 237 | Var | 27 | 27 |

REGISTERED CIVIL ENGINEER 7-10-13 DATE

3-2-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER T. LEE No. C38395 Exp. 3-31-15 CIVIL STATE OF CALIFORNIA

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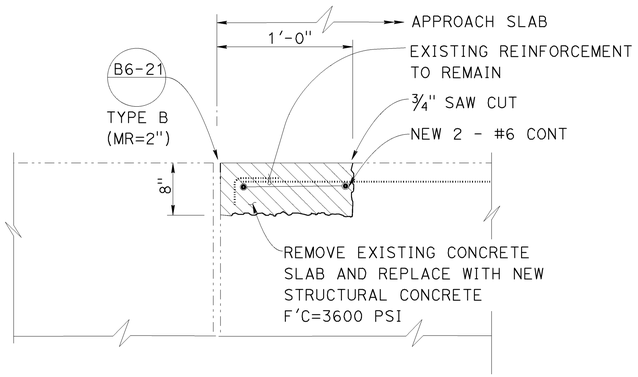
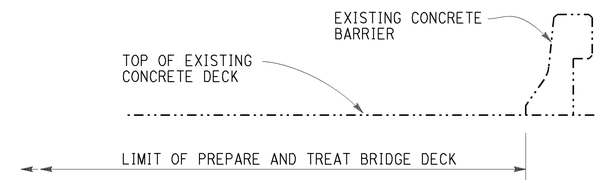



## APPROACH SLAB REPAIR DETAIL

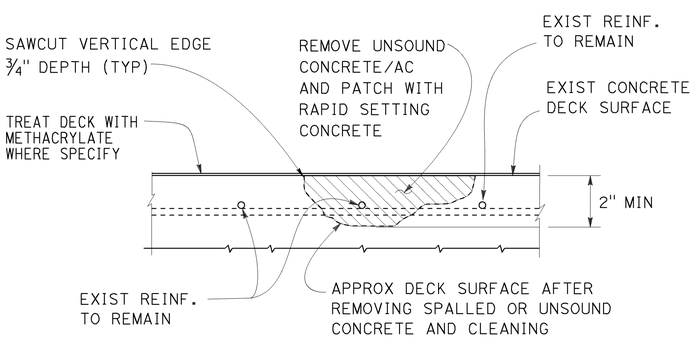
No scale

DECK REPAIR NOTES:

1. FOR BRIDGE LOCATION OF APPROACH SLABS REPAIR, SEE TITLE SHEET.
2. REINFORCEMENT MAY BE ENCOUNTERED DURING SLAB CONCRETE REMOVAL.
3. EXISTING REINFORCEMENT SHALL BE PROTECTED IN PLACE DURING CONCRETE REMOVAL AND REPLACEMENT OPERATIONS.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY REINFORCEMENT THAT IS ACCIDENTALLY CUT BY SAW CUTTING OPERATIONS OR DAMAGED.
5. WHEN EXISTING TRANSVERSE REINFORCEMENT IS EXPOSED IN THE SLAB SURFACE, SAW CUTTING SHALL BE WAIVED WITH THE APPROVAL OF THE ENGINEER.
6. THE SAW CUT DEPTH SHALL NOT EXCEED 1 INCH OR THE CONCRETE COVER OVER THE TOP STEEL REINFORCING BARS, WHICHEVER IS LESS.

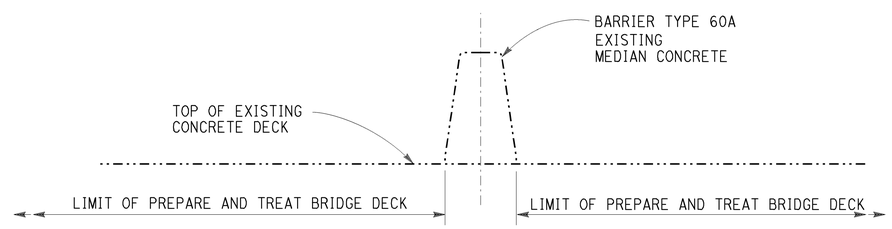



## EOD BARRIER

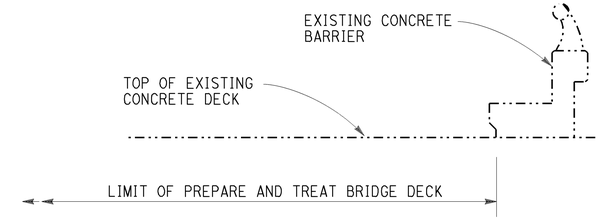



## CONCRETE DAMAGE REPAIR DETAIL

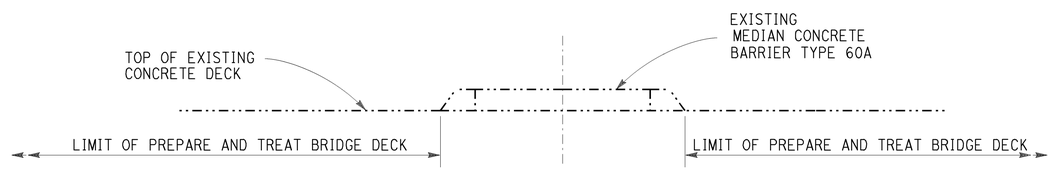
NOTE: REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL



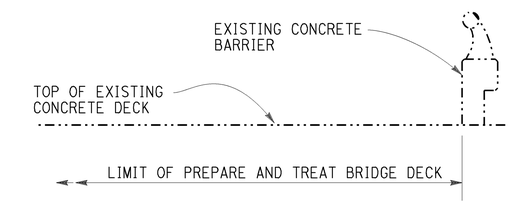

## MEDIAN BARRIER




## SIDEWALK BARRIER TYPE 2




## RAISED MEDIAN




## SIDEWALK BARRIER TYPE 1

## TYPICAL LIMITS OF DECK WORK

NO SCALE

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

**REPLACE JOINT SEALS AND TREAT BRIDGE DECKS**

| | BY | CHECKED |
|---|---|---|
| DESIGN | Christopher T. Lee | L. Ellis |
| DETAILS | B. Ballesteros | Christopher T. Lee |
| QUANTITIES | Christopher T. Lee | L. Ellis |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE AND INVESTIGATIONS

BRIDGE NO.: Various
POST MILE: Varies

**VARIOUS BRIDGES**

**DECK REPAIR & TREATMENT DETAILS**

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 0976
PROJECT NUMBER & PHASE: 0413000282
CONTRACT NO.: 04-3E7701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 10-6-14 10-14-14 6-26-14

SHEET 11 OF 11

FILE => 04-3E7701kdt001.dgn

USERNAME => s126849 DATE PLOTTED => 06-MAR-2015 TIME PLOTTED => 08:59