INDEX OF PLANS

| SHEET No. | DESCRIPTION |
|---|---|
| 1 | TITLE AND LOCATION MAP |
| 2-10 | LAYOUTS |
| 11-13 | CONSTRUCTION DETAILS |
| 14 | CONSTRUCTION AREA SIGNS |
| 15-19 | TRAFFIC HANDLING DETAILS |
| 20 | SUMMARY OF QUANTITIES |
| 21-29 | REVISED STANDARD PLANS |

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

STATE OF CALIFORNIA

# DEPARTMENT OF TRANSPORTATION

ACNH-X037(196)E

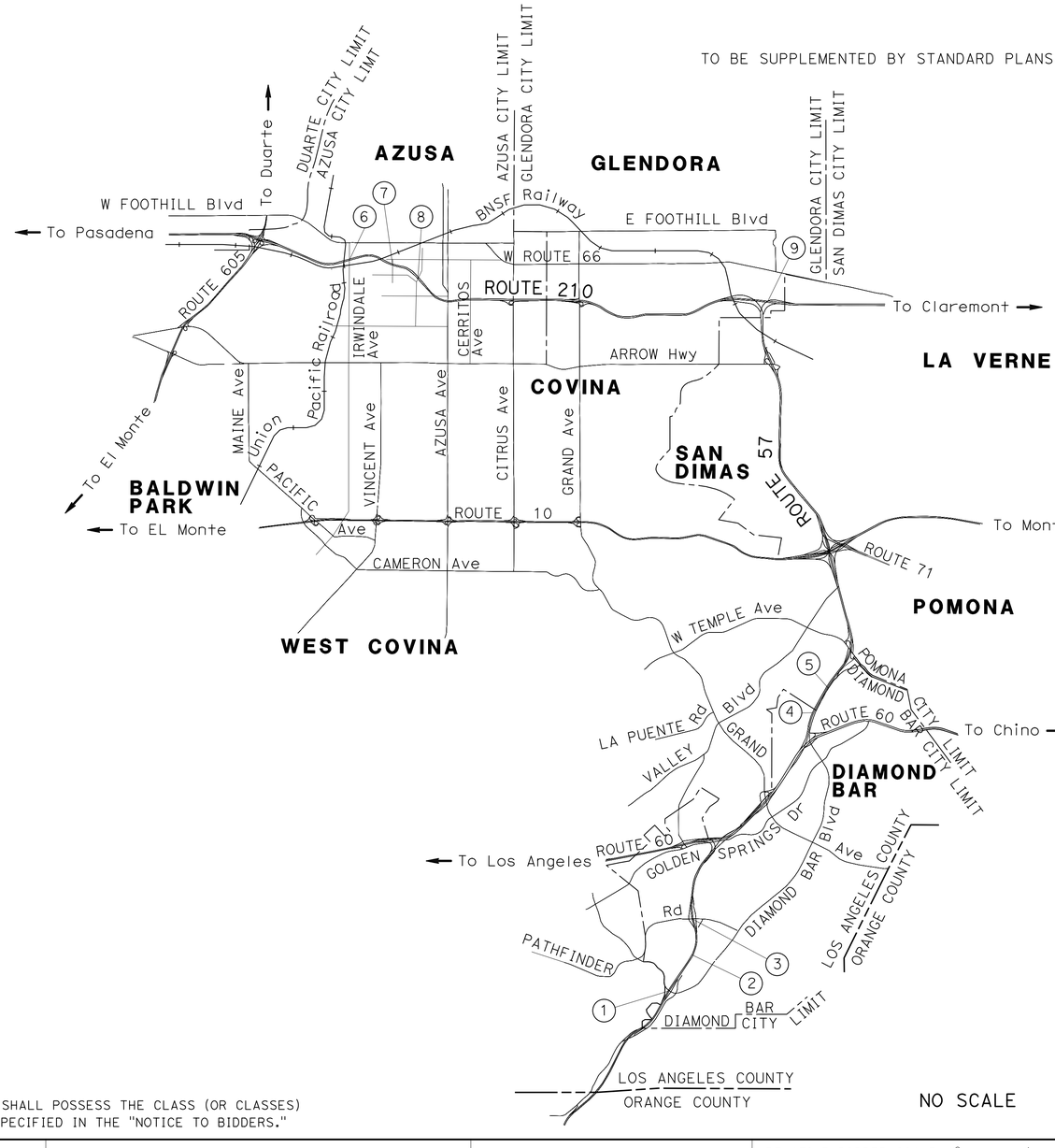
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 1 | 29 |

# PROJECT PLANS FOR CONSTRUCTION ON

# STATE HIGHWAY

## IN LOS ANGELES COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010




NO SCALE


LOCATION MAP

## LOCATIONS OF CONSTRUCTION

| Loc No. ⑨ | COUNTY | ROUTE | PM | DESCRIPTION | DIRECTION |
|---|---|---|---|---|---|
| 1 | LA | 57 | R1.94 | DIAMOND BAR Blvd UC | N/B & S/B |
| 2 | LA | 57 | R2.52 | COLD SPRING LANE UC | N/B & S/B |
| 3 | LA | 57 | R3.17 | PATHFINDER ROAD OC | N/B & S/B |
| 4 | LA | 57 | 4.98 | SUNSET CROSSING ROAD UC | N/B & S/B |
| 5 | LA | 57 | 5.61 | STATE STREET OC | N/B & S/B |
| 6 | LA | 210 | R37.86 | IRWINDALE Ave OC | E/B & W/B |
| 7 | LA | 210 | R38.58 | ZACHARY PADILLA Ave OC | E/B & W/B |
| 8 | LA | 210 | R38.96 | VERNON Ave OC | E/B & W/B |
| 9 | LA | 210 | R44.56 | W210-S57 CONNECTOR UC | W/B |

PROJECT MANAGER: JIWANJIT PALAHA

DESIGN MANAGER: RICHARD CHIANG

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

PROJECT ENGINEER / REGISTERED CIVIL ENGINEER — DATE: 2-2-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS — No. C70638 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

July 7, 2016
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. | 07-300304 |
| PROJECT ID | 0713000436 |

LAST REVISION: DATE PLOTTED => 26-JUL-2016 TIME PLOTTED => 07:14 — 00-00-00

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 2 | 29 |

REGISTERED CIVIL ENGINEER — 2-2-16 DATE

7-7-16 PLANS APPROVAL DATE

MARVIN J. DAVIS No. C70638 Exp. 6-30-17 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.

## NOTES:

1. FOR ADDITIONAL DETAILS, SEE CONSTRUCTION DETAILS SHEETS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. UTILITY INVESTIGATIONS HAVE BEEN COMPLETED AND NO UTILITIES WERE FOUND WITHIN 5 FEET OF THE OUTER LIMIT OF WORK FOR EACH LOCATION OF EXCAVATION. EXISTING UTILITIES BEYOND 5 FEET OF THE SLOPE PAVING ARE NOT INCLUDED ON THESE PLANS.

## LEGEND:

SLOPE PAVING (CONCRETE) WITH ROCK COBBLES

ROADWAY EXCAVATION

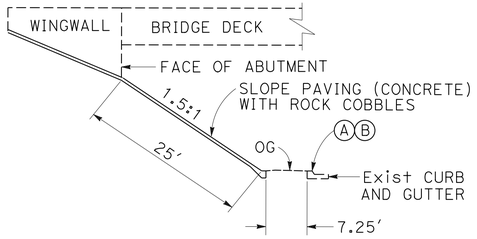
ROADWAY EXCAVATION (TYPE Z-2) (AERIALLY DEPOSITED LEAD)

(A) REMOVE CONCRETE CURB AND GUTTER.

(B) BAR REINFORCING STEEL, 4" PLASTIC PIPE UNDERDRAIN, MINOR CONCRETE (CURB AND GUTTER).

(C) REMOVE CONCRETE CURB AND GUTTER, REMOVE CONCRETE SIDEWALK (SQYD).

(D) BAR REINFORCING STEEL, 4" PLASTIC PIPE UNDERDRAIN, MINOR CONCRETE (CURB AND GUTTER), MINOR CONCRETE (SIDEWALK).




SECTION A-A
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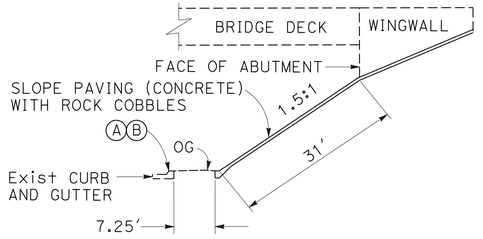
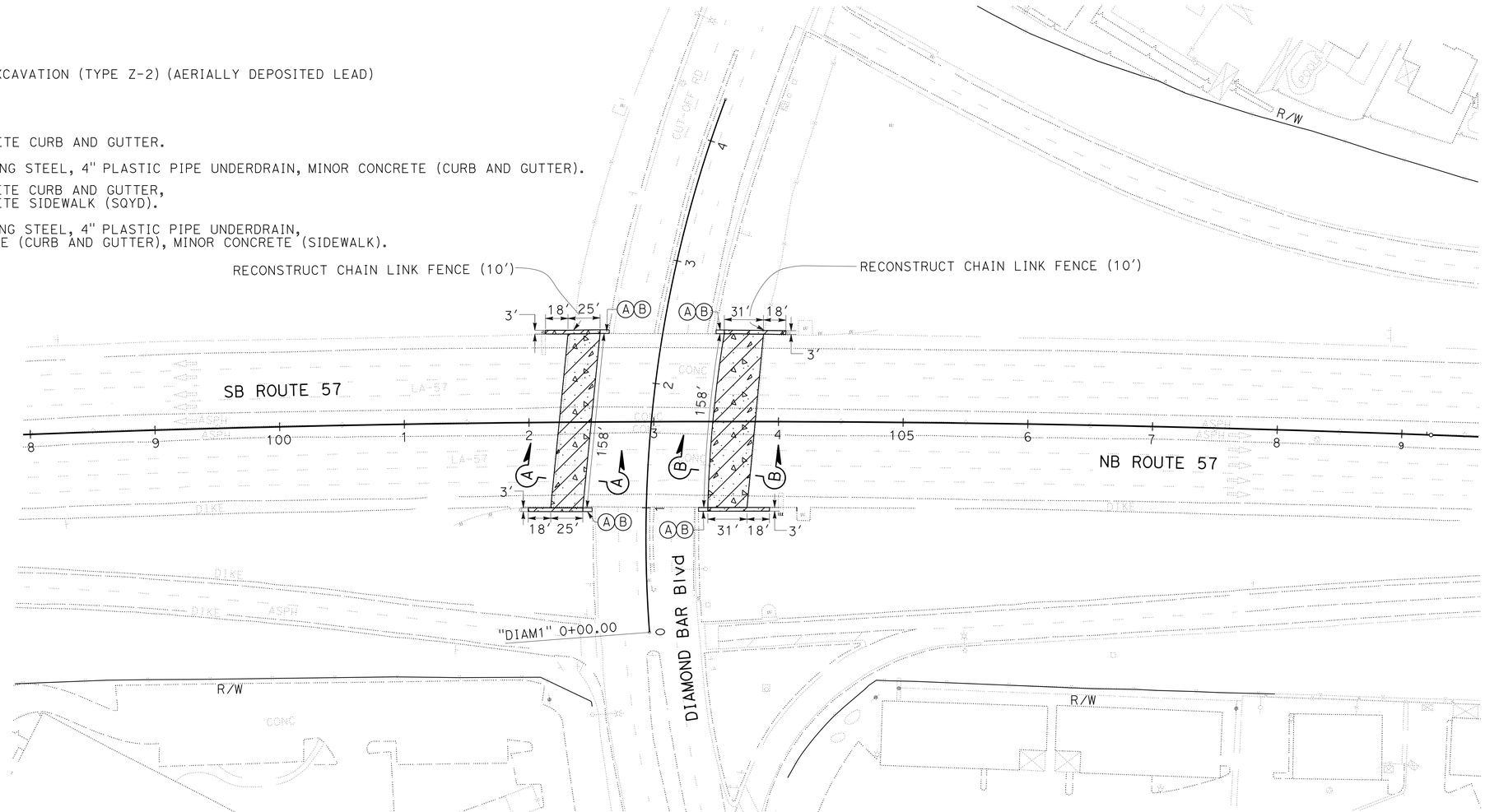



SECTION B-B
NO SCALE




## LOCATION No. 1

ROUTE 57
PM R1.94

## LAYOUT

SCALE: 1" = 50′

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

FUNCTIONAL SUPERVISOR: RICHARD CHIANG

CALCULATED-DESIGNED BY: MARVIN DAVIS

CHECKED BY: H. S. CHEN

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 26-JUL-2016 | TIME PLOTTED => 07:14 | 00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

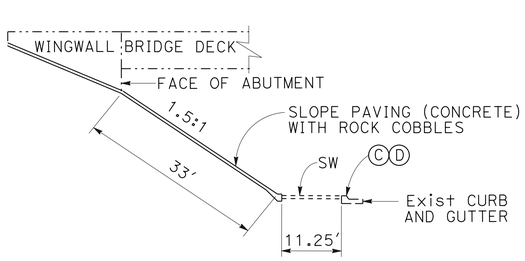
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 3 | 29 |

REGISTERED CIVIL ENGINEER — 2-2-16 DATE

MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

7-7-16
PLANS APPROVAL DATE






SECTION A-A
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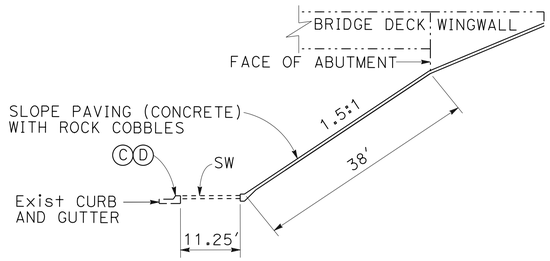
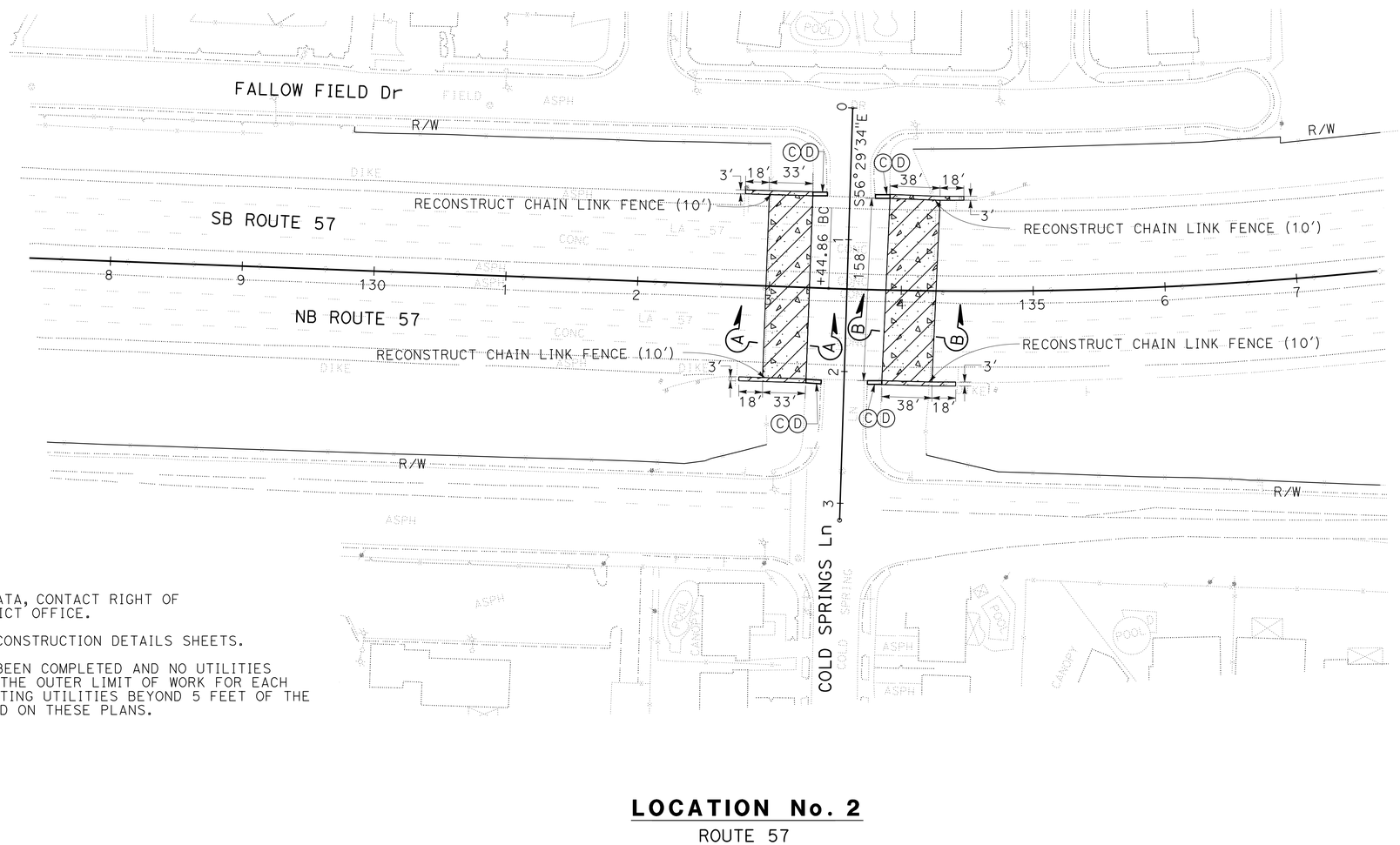



SECTION B-B
NO SCALE




NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS, SEE CONSTRUCTION DETAILS SHEETS.
3. UTILITY INVESTIGATIONS HAVE BEEN COMPLETED AND NO UTILITIES WERE FOUND WITHIN 5 FEET OF THE OUTER LIMIT OF WORK FOR EACH LOCATION OF EXCAVATION. EXISTING UTILITIES BEYOND 5 FEET OF THE SLOPE PAVING ARE NOT INCLUDED ON THESE PLANS.

## LOCATION No. 2

ROUTE 57
PM R2.52

## LAYOUT

SCALE: 1" = 50'

L-2

REVISED BY | DATE REVISED
MARVIN DAVIS | H. S. CHEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RICHARD CHIANG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION | DATE PLOTTED => 26-JUL-2016 | TIME PLOTTED => 07:14 | 00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE | 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 4 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

7-7-16
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.

## NOTES:

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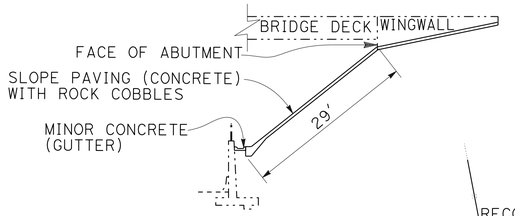


SECTION A-A
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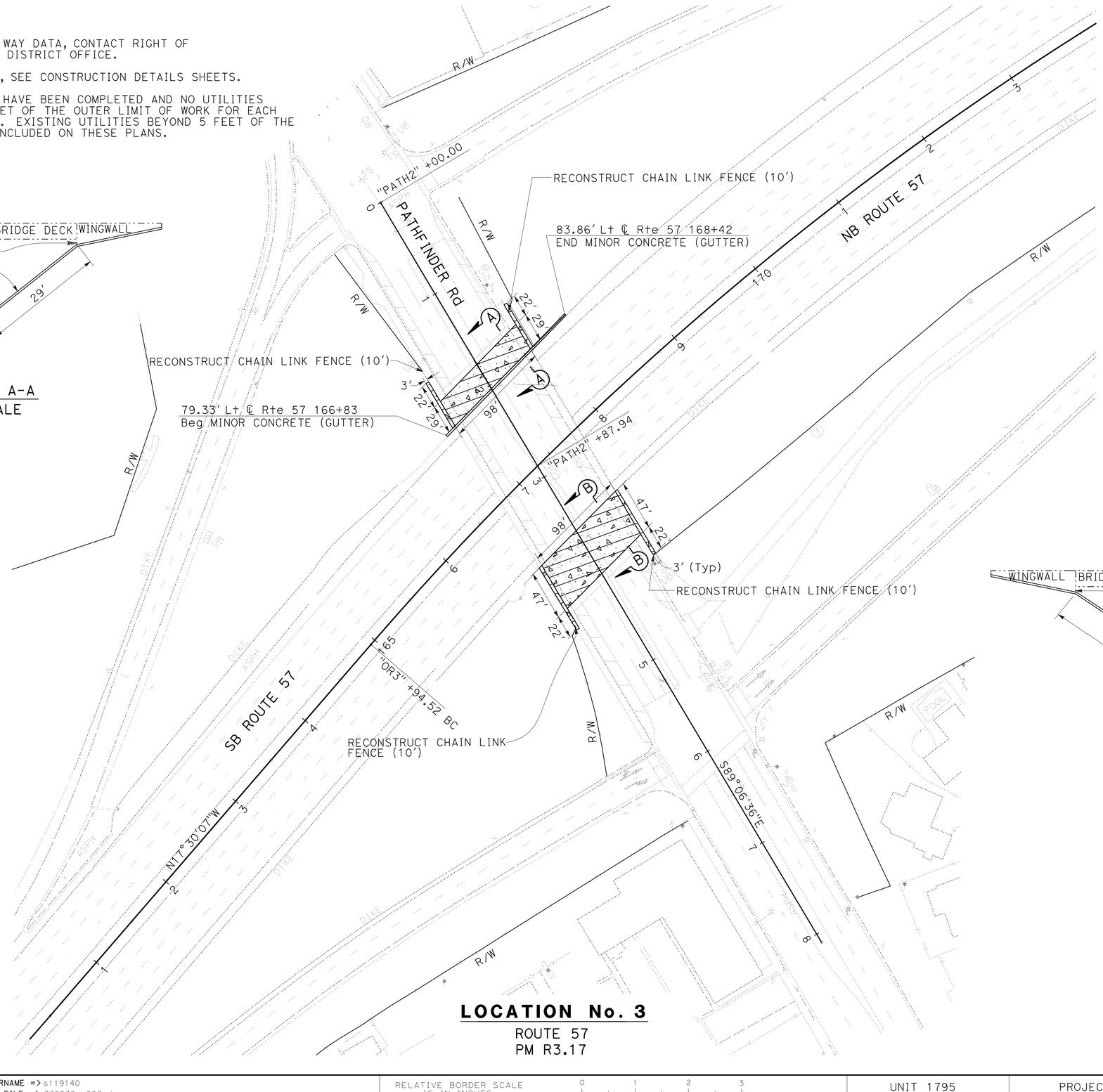






SECTION B-B
NO SCALE

## LOCATION No. 3

ROUTE 57
PM R3.17

# LAYOUT

SCALE: 1" = 50'

L-3

REVISED BY | DATE REVISED
MARVIN DAVIS | H. S. CHEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RICHARD CHIANG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION | DATE PLOTTED => 26-JUL-2016
00-00-00 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

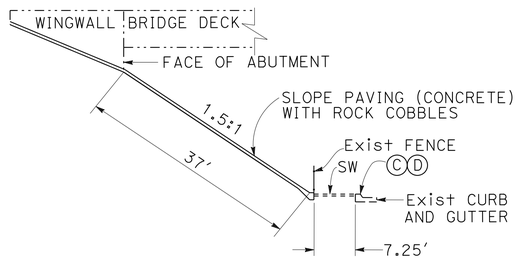
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 5 | 29 |

REGISTERED CIVIL ENGINEER — DATE: 2-2-16

PLANS APPROVAL DATE: 7-7-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS — No. C70638 — Exp. 6-30-17 — 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.




SECTION A-A
NO SCALE







SECTION B-B
NO SCALE

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS, SEE CONSTRUCTION DETAILS SHEETS.
3. UTILITY INVESTIGATIONS HAVE BEEN COMPLETED AND NO UTILITIES WERE FOUND WITHIN 5 FEET OF THE OUTER LIMIT OF WORK FOR EACH LOCATION OF EXCAVATION. EXISTING UTILITIES BEYOND 5 FEET OF THE SLOPE PAVING ARE NOT INCLUDED ON THESE PLANS.

## LOCATION No. 4

ROUTE 57
PM 4.98

# LAYOUT

SCALE: 1" = 50'

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans®
FUNCTIONAL SUPERVISOR: RICHARD CHIANG
CALCULATED-DESIGNED BY: MARVIN DAVIS
CHECKED BY: H. S. CHEN
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 26-JUL-2016 | 00-00-00 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 6 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

PLANS APPROVAL DATE 7-7-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS — No. C70638 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA



## NOTES:

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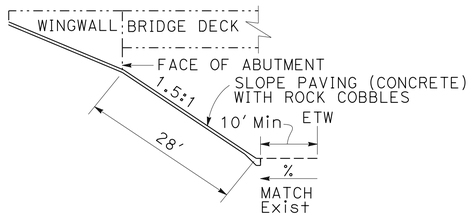
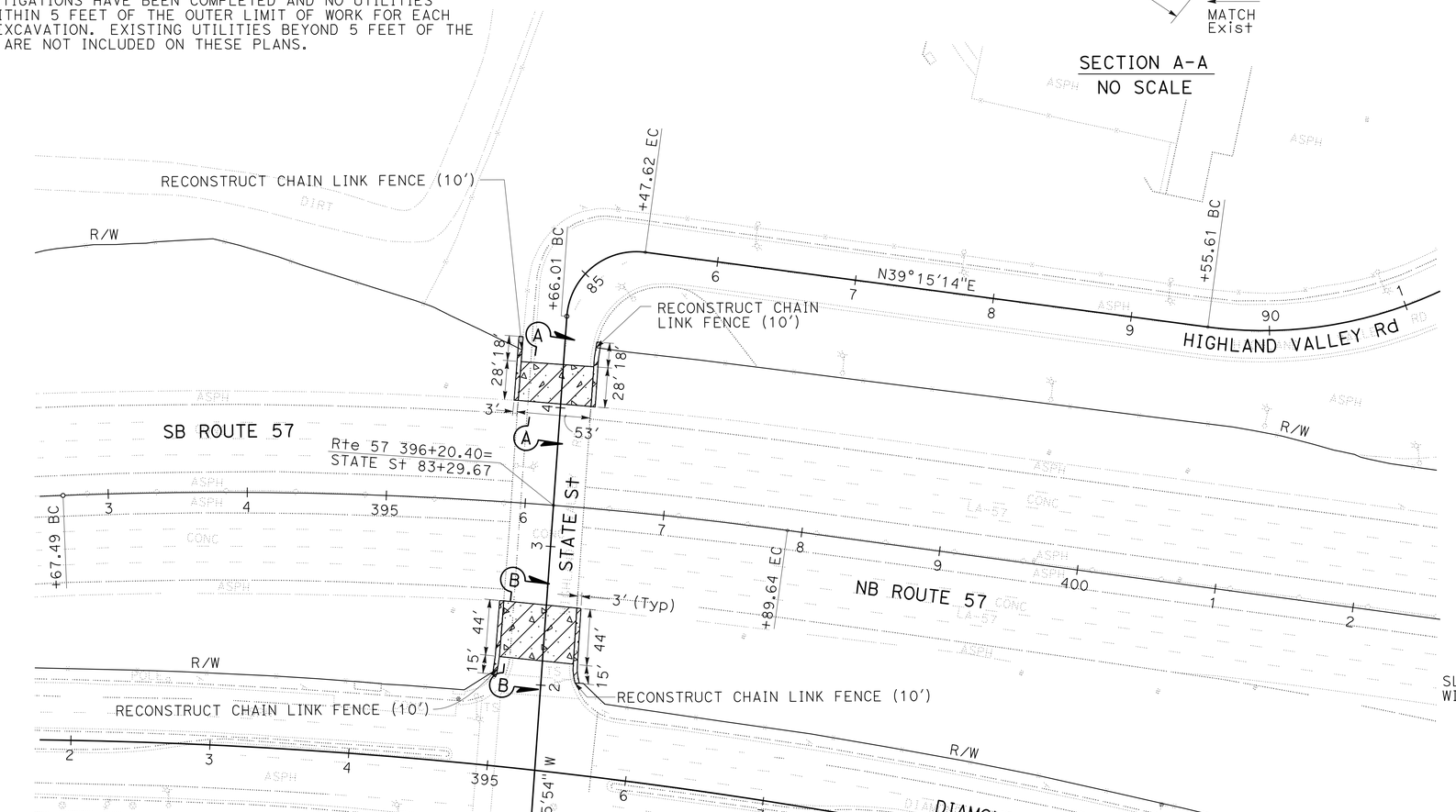
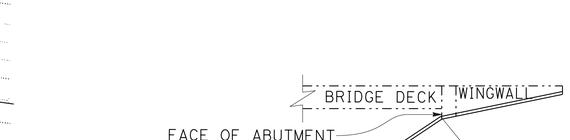



SECTION A-A
NO SCALE




SECTION B-B
NO SCALE

## LOCATION No. 5

ROUTE 57
PM 5.61

## LAYOUT

SCALE: 1" = 50'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

FUNCTIONAL SUPERVISOR: RICHARD CHIANG

CALCULATED-DESIGNED BY: MARVIN DAVIS

CHECKED BY: H. S. CHEN

| REVISED BY | DATE REVISED |
|---|---|

LAST REVISION — DATE PLOTTED => 26-JUL-2016 — TIME PLOTTED => 07:14 — 00-00-00

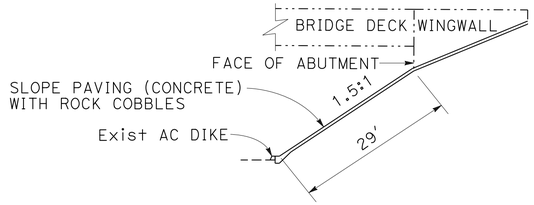
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 7 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

PLANS APPROVAL DATE 7-7-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS — No. C70638 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA






SECTION A-A
NO SCALE







SECTION B-B
NO SCALE

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS, SEE CONSTRUCTION DETAILS SHEETS.
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**LOCATION No. 6**
ROUTE 210
PM R37.86

# LAYOUT
SCALE: 1" = 50'

**L-6**

REVISED BY | DATE REVISED
MARVIN DAVIS | H. S. CHEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RICHARD CHIANG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION | DATE PLOTTED => 26-JUL-2016
00-00-00 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 8 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

PLANS APPROVAL DATE 7-7-16

MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA



## NOTES:

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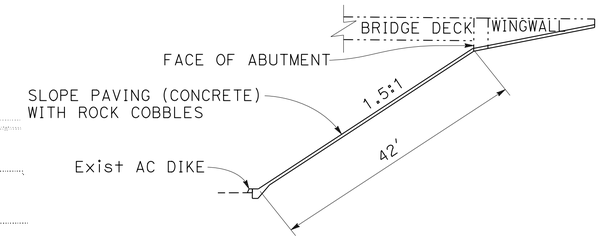
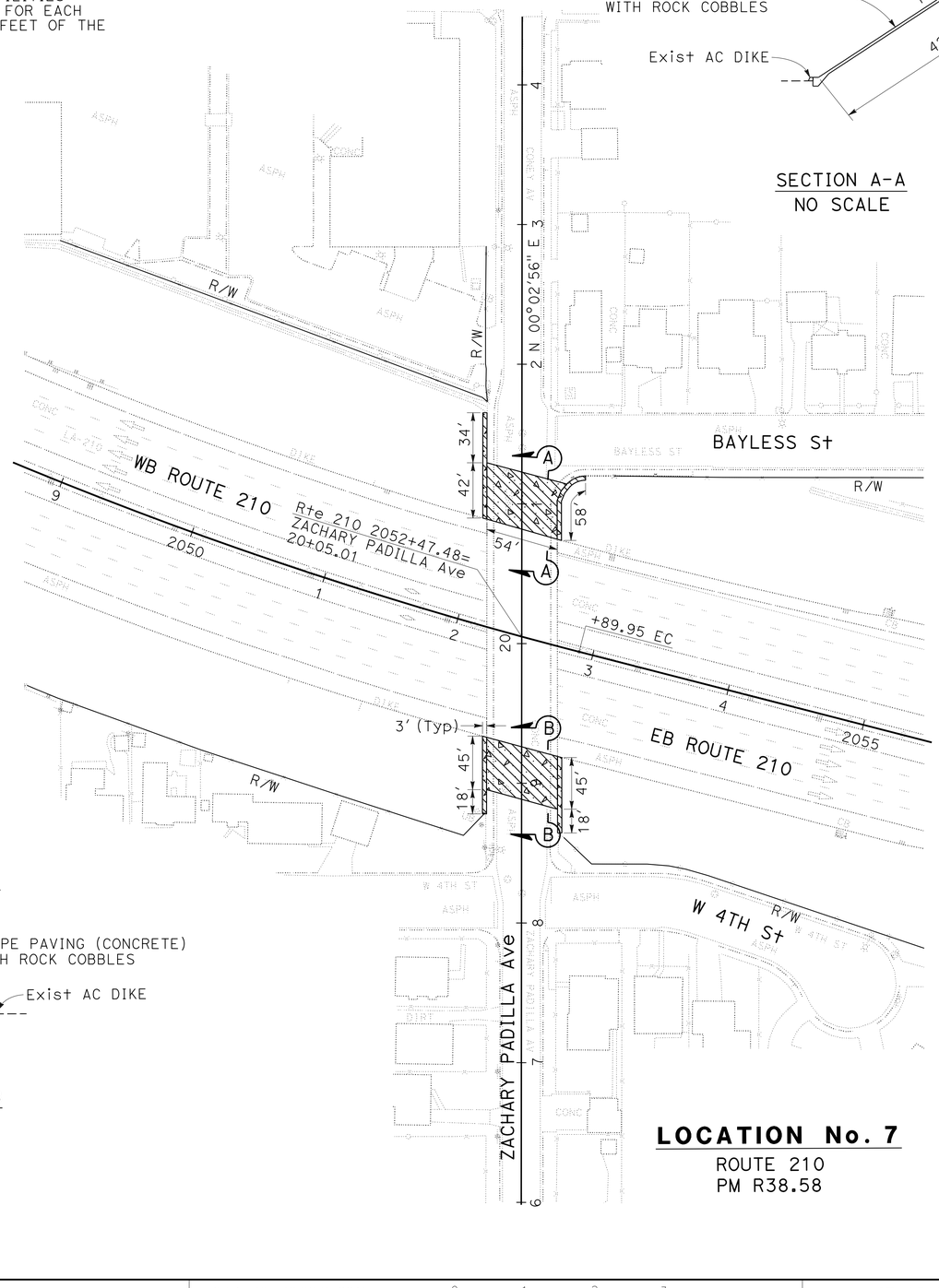
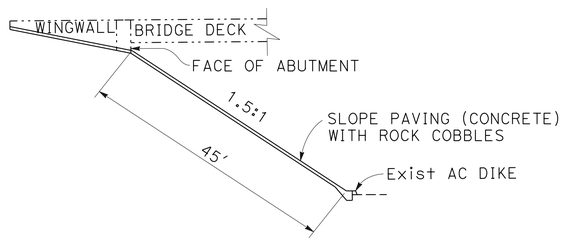



SECTION A-A
NO SCALE




SECTION B-B
NO SCALE

**LOCATION No. 7**
ROUTE 210
PM R38.58

# LAYOUT
SCALE: 1" = 50'

**L-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: RICHARD CHIANG
CALCULATED-DESIGNED BY: MARVIN DAVIS
CHECKED BY: H. S. CHEN
REVISED BY / DATE REVISED

LAST REVISION | DATE PLOTTED => 26-JUL-2016 | 00-00-00 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 9 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

PLANS APPROVAL DATE 7-7-16

MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA



## NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
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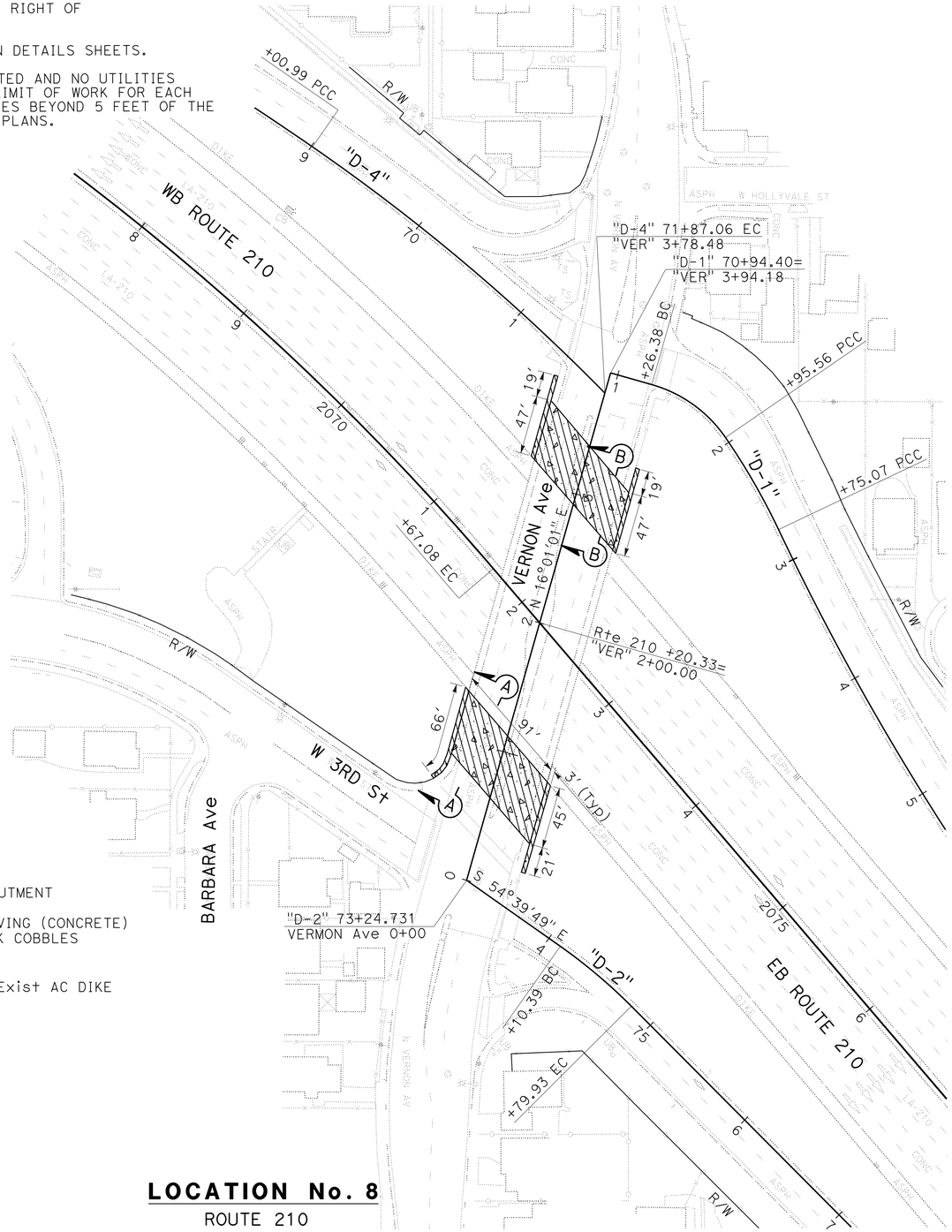
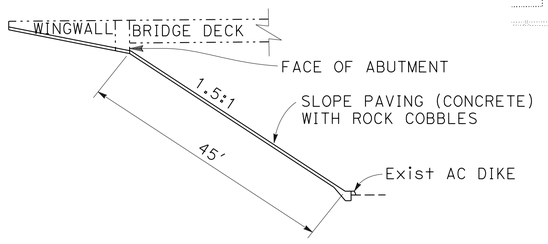
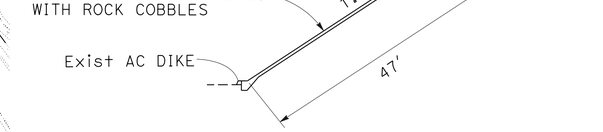



SECTION A-A
NO SCALE




SECTION B-B
NO SCALE

**LOCATION No. 8**
ROUTE 210
PM R38.96

# LAYOUT
SCALE: 1" = 50'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans

FUNCTIONAL SUPERVISOR: RICHARD CHIANG

CALCULATED-DESIGNED BY: MARVIN DAVIS
CHECKED BY: H. S. CHEN

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 26-JUL-2016
00-00-00 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ea008.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

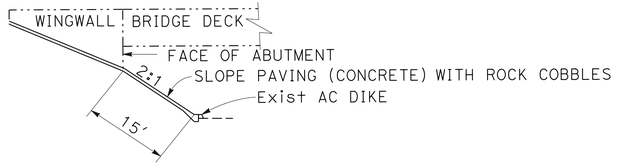
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 10 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

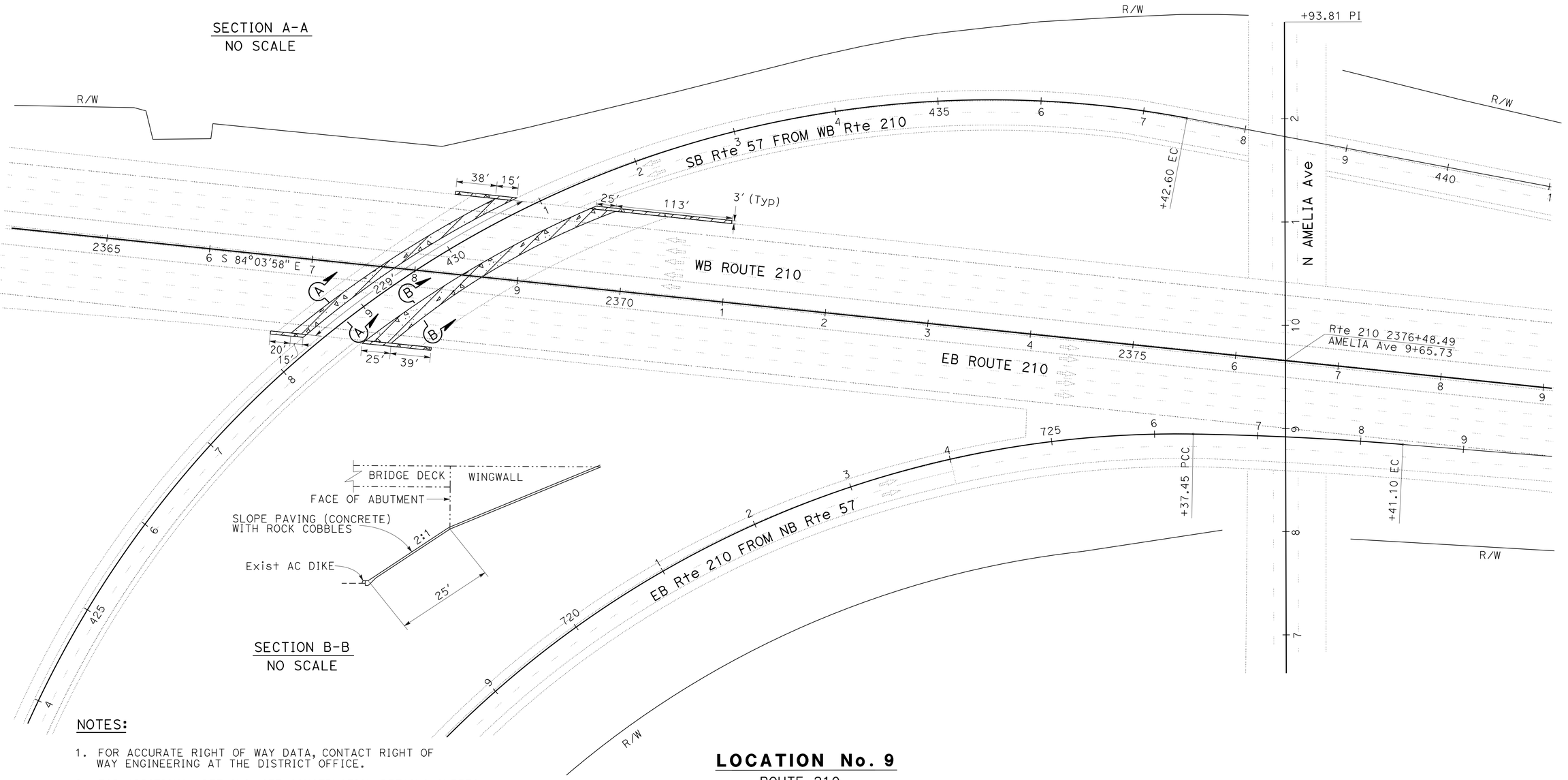
PLANS APPROVAL DATE 7-7-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — STATE OF CALIFORNIA






SECTION A-A
NO SCALE







SECTION B-B
NO SCALE

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR ADDITIONAL DETAILS, SEE CONSTRUCTION DETAILS SHEETS.
3. UTILITY INVESTIGATIONS HAVE BEEN COMPLETED AND NO UTILITIES WERE FOUND WITHIN 5 FEET OF THE OUTER LIMIT OF WORK FOR EACH LOCATION OF EXCAVATION. EXISTING UTILITIES BEYOND 5 FEET OF THE SLOPE PAVING ARE NOT INCLUDED ON THESE PLANS.

## LOCATION No. 9

ROUTE 210
PM R44.56

# LAYOUT

SCALE: 1" = 50'

**L-9**

| REVISED BY | DATE REVISED |
|---|---|
| | |

CALCULATED-DESIGNED BY: MARVIN DAVIS
CHECKED BY: H. S. CHEN
FUNCTIONAL SUPERVISOR: RICHARD CHAING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION — DATE PLOTTED => 26-JUL-2016 — TIME PLOTTED => 07:14 — 00-00-00

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 11 | 29 |

REGISTERED CIVIL ENGINEER — 2-2-16 DATE

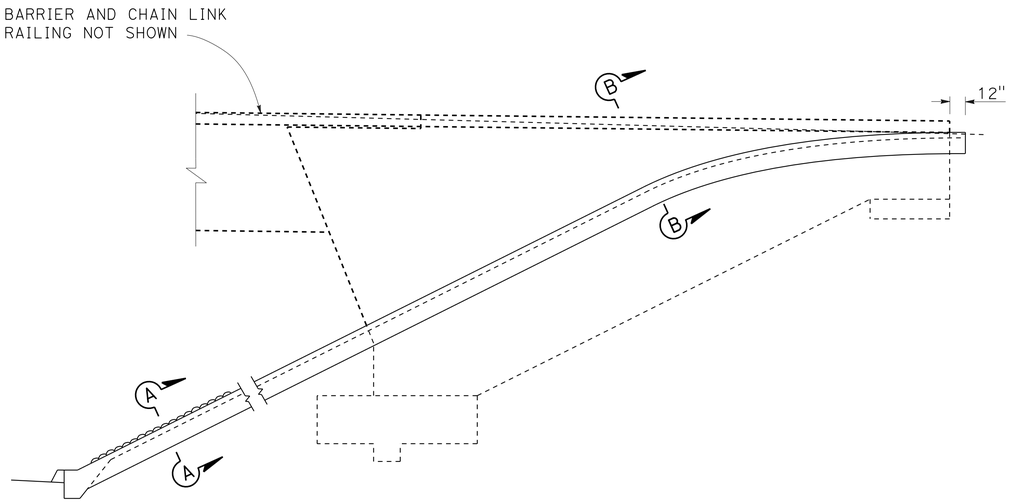
PLANS APPROVAL DATE — 7-7-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — STATE OF CALIFORNIA

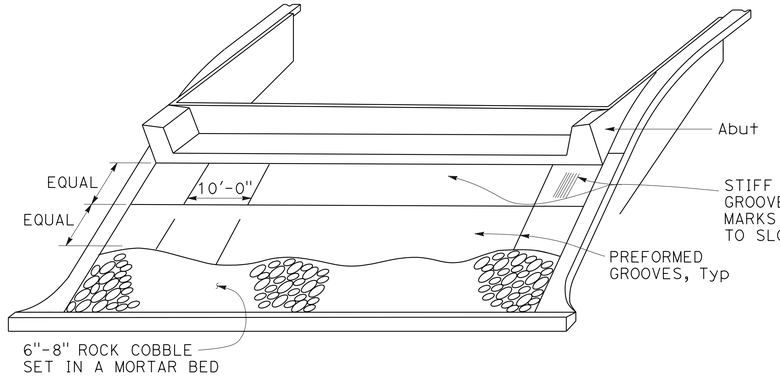


## NOTES:

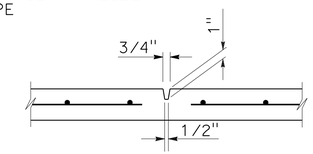
1. ROCK COBBLE MUST BE PLACED TO MINIMIZE MORTAR.
2. REINFORCING BARS MUST HAVE A MINIMUM 2" CLEARANCE FROM CONCRETE EDGES.
3. SEE TYPICAL GUTTER DETAIL IN STANDARD PLAN (B3-6) FOR LOCATION No. 3 AT S/B Rte 57.



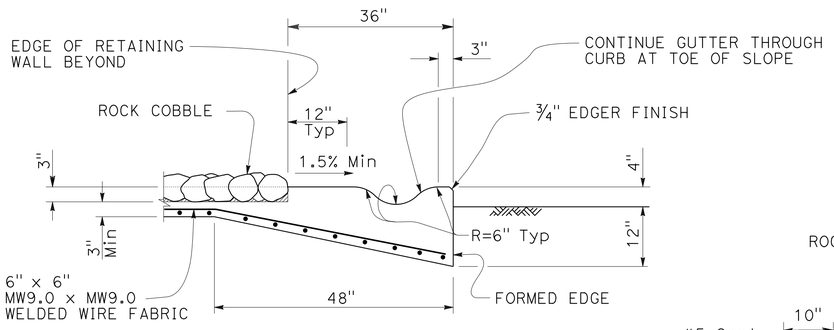

WINGWALL ELEVATION
NO SCALE



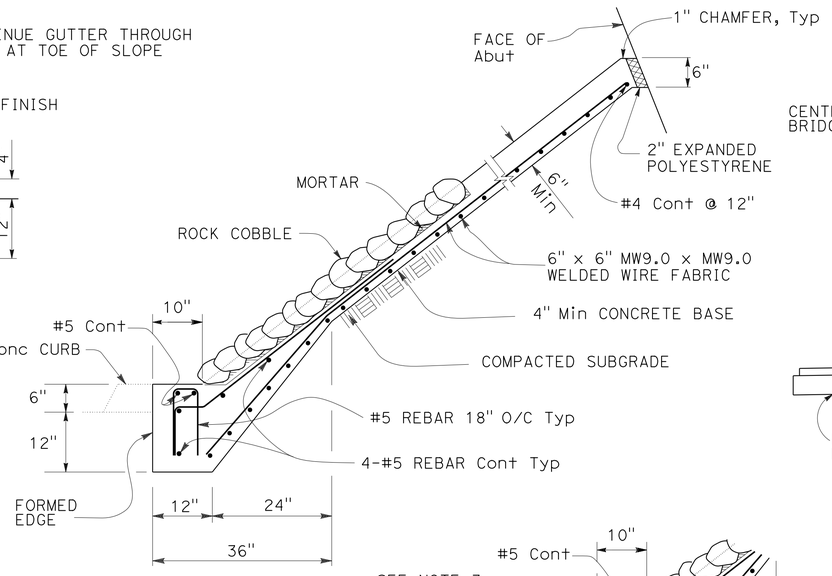

PICTORIAL VIEW OF TYPICAL INSTALLATION
NO SCALE



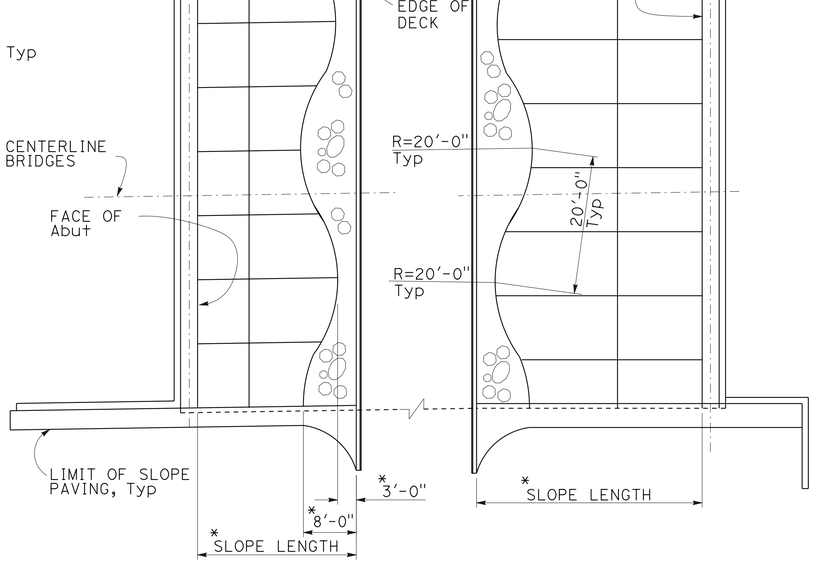

PREFORMED GROOVES DETAIL
NO SCALE




SECTION A-A
NO SCALE

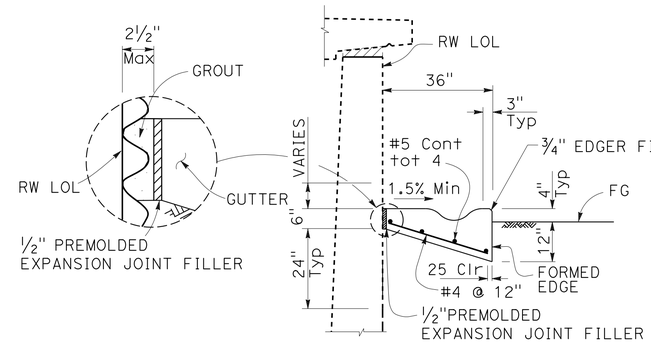



TYPICAL SECTION 1
NO SCALE

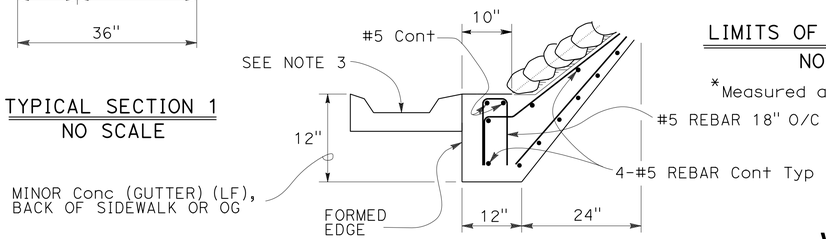



LIMITS OF SLOPE PAVING
NO SCALE

*Measured along slope.




SECTION B-B
NO SCALE




TYPICAL SECTION 2
NO SCALE

# CONSTRUCTION DETAILS

## SLOPE PAVING (CONCRETE) WITH ROCK COBBLES DETAILS - FULL SLOPE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

FUNCTIONAL SUPERVISOR: RICHARD CHIANG

CALCULATED-DESIGNED BY: MARVIN DAVIS

CHECKED BY: H. S. CHEN

| REVISED BY | DATE REVISED |
|---|---|

LAST REVISION — DATE PLOTTED => 26-JUL-2016, TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 12 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

PLANS APPROVAL DATE 7-7-16

REGISTERED PROFESSIONAL ENGINEER — MARVIN J. DAVIS — No. C70638 — Exp. 6-30-17 — CIVIL — STATE OF CALIFORNIA

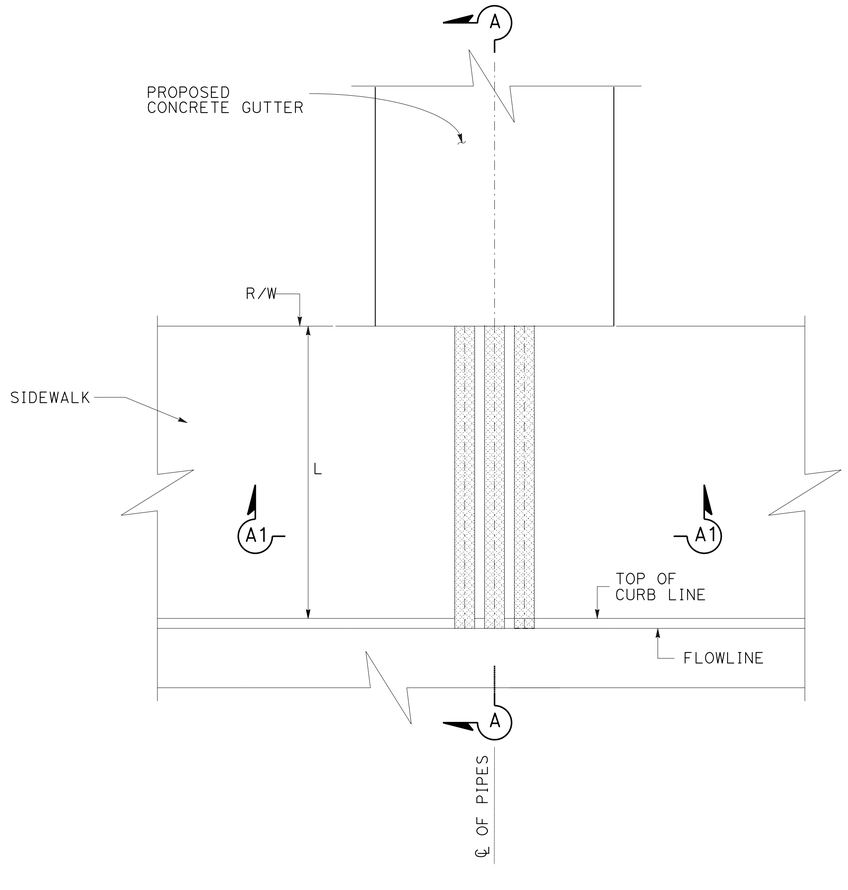
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

## NOTES:

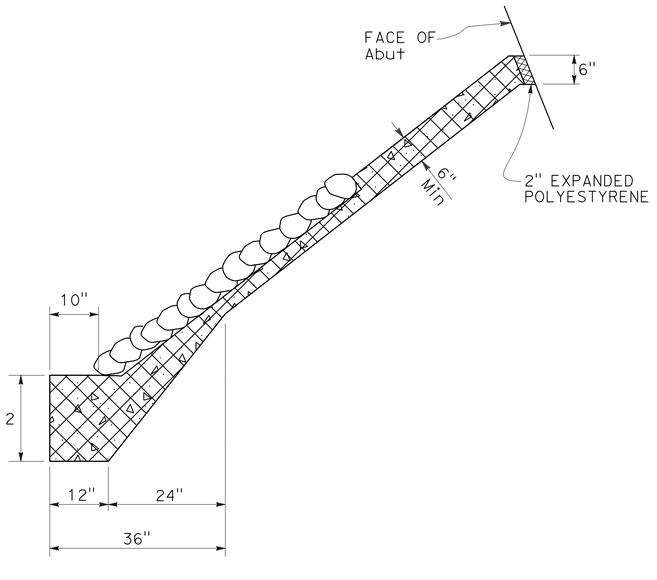
1. FOR ADDITIONAL DETAILS, SEE PLAN SHEETS C-1 AND C-3.
2. SEE TYPICAL SECTIONS 1 AND 2 ON PLAN SHEET C-1 FOR DESIGN DEPTH.

## LEGEND:

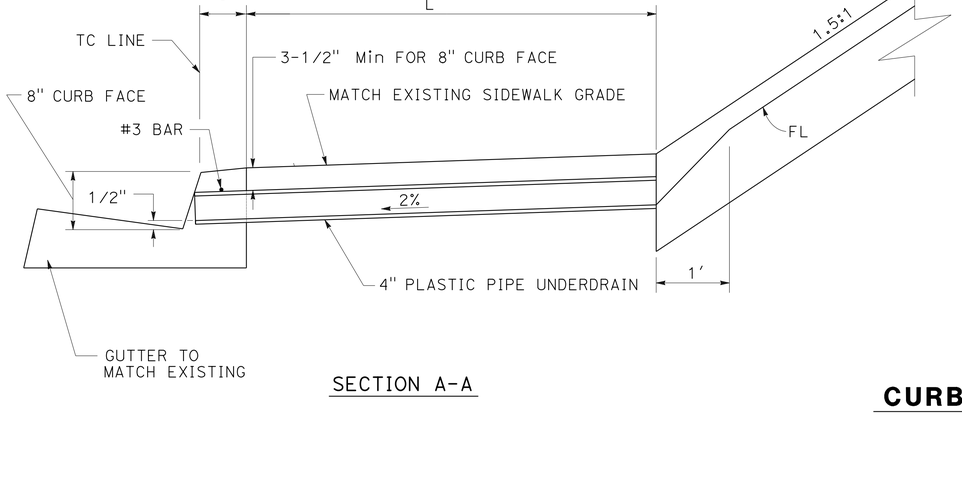
SLOPE PAVING (CONCRETE) WITH ROCK COBBLES,
ROADWAY EXCAVATION (TYPE Z-2) (AERIAL DEPOSITED LEAD) OR ROADWAY EXCAVATION.



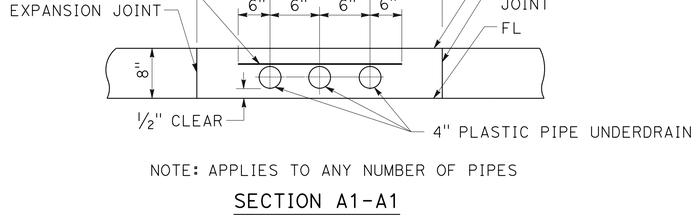

PLAN




TYPICAL SECTION
NO SCALE




SECTION A-A




NOTE: APPLIES TO ANY NUMBER OF PIPES

SECTION A1-A1
8" CURB FACE

# CURB DRAIN DETAILS

# CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans®

FUNCTIONAL SUPERVISOR: RICHARD CHIANG

CALCULATED-DESIGNED BY: MARVIN DAVIS

CHECKED BY: H. S. CHEN

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 26-JUL-2016 | 00-00-00 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

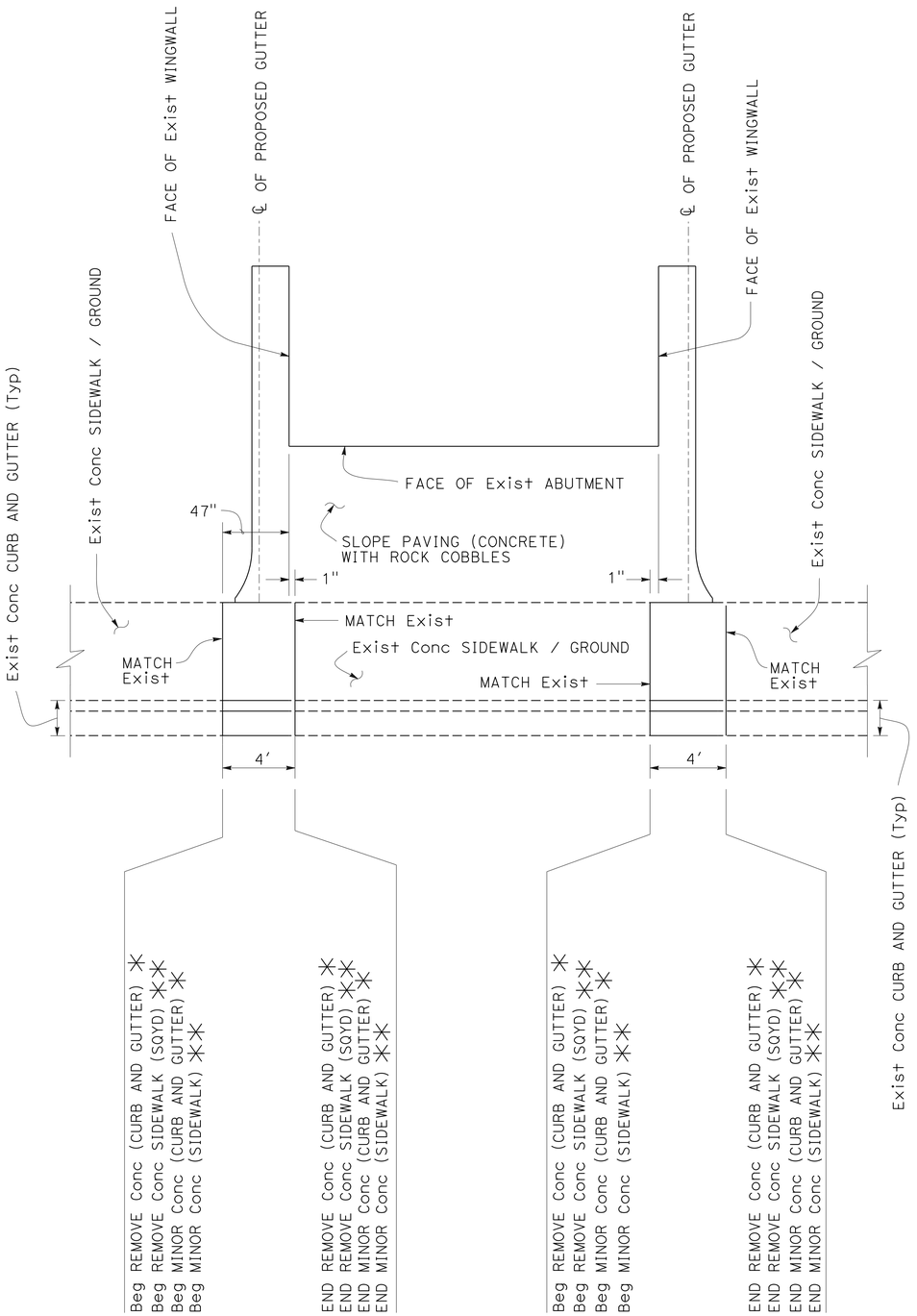
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 13 | 29 |

REGISTERED CIVIL ENGINEER — 2-2-16 DATE

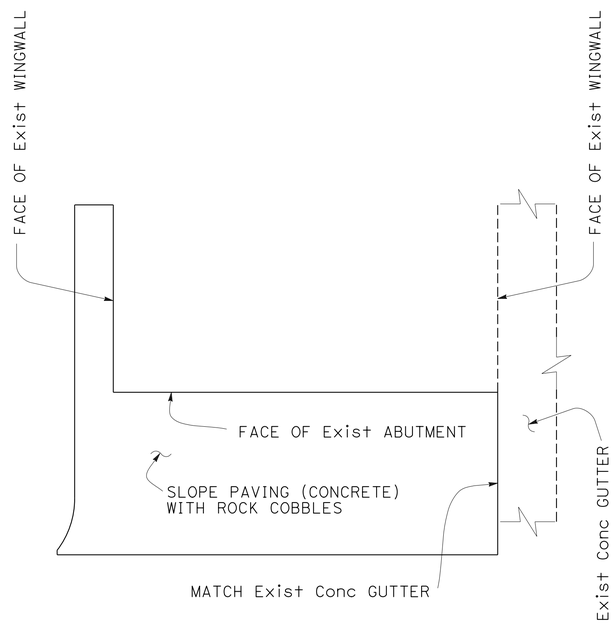
7-7-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN J. DAVIS
No. C70638
Exp. 6-30-17
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.




TYPICAL PLAN No. 1




TYPICAL PLAN No. 2

NOTES:

1. FOR ADDITIONAL DETAILS, SEE PLAN SHEETS C-1 AND C-2.
2. ✳ SEE PLAN SHEET L-1
3. ✳✳ SEE PLAN SHEETS L-2 AND L-4

# CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

CALCULATED-DESIGNED BY: MARVIN DAVIS
CHECKED BY: H. S. CHEN
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR: RICHARD CHIANG

LAST REVISION 00-00-00
DATE PLOTTED => 26-JUL-2016
TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 730030ga003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1795
PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 14 | 29 |

2-2-16
REGISTERED CIVIL ENGINEER DATE

7-7-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARVIN J. DAVIS
No. C70638
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

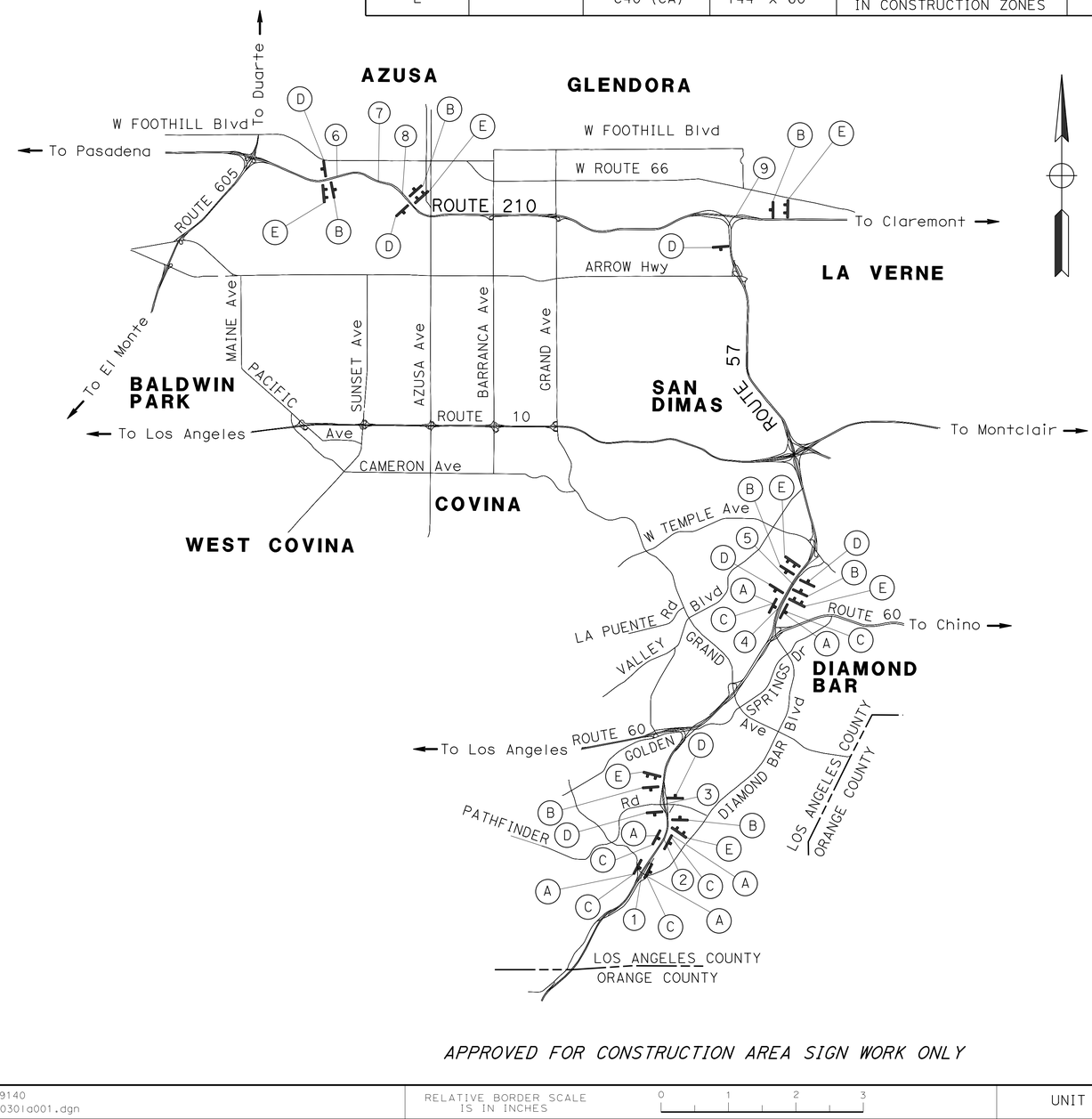
*THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.*

NOTES:

1. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. "TRAFFIC FINES DOUBLED IN WORK ZONE" MUST BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGN.

## STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. (X) | SIGN CODE | | PANEL SIZE | SIGN MESSAGE | NUMBER OF POSTS AND SIZE | NUMBER OF SIGNS |
|---|---|---|---|---|---|---|
| | FEDERAL | CALIFORNIA | | | | |
| A | W20-1 | | 36" x 36" | ROAD WORK AHEAD | 1 - 4" x 6" | 6 |
| B | W20-1 | | 48" x 48" | ROAD WORK AHEAD | 1 - 6" x 6" | 7 |
| C | G20-2 | | 36" x 18" | END ROAD WORK | 1 - 4" x 4" | 6 |
| D | G20-2 | | 48" x 24" | END ROAD WORK | 1 - 4" x 6" | 7 |
| E | | C40 (CA) | 144" x 60" | TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES | 2 - 6" x 6" | 7 |




*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

## CONSTRUCTION AREA SIGNS

NO SCALE

**CS-1**

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
MARVIN DAVIS
H. S. CHEN
FUNCTIONAL SUPERVISOR
RICHARD CHIANG
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 26-JUL-2016
TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010
USERNAME => s119140
DGN FILE => 7300301a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1795
PROJECT NUMBER & PHASE 07130004361

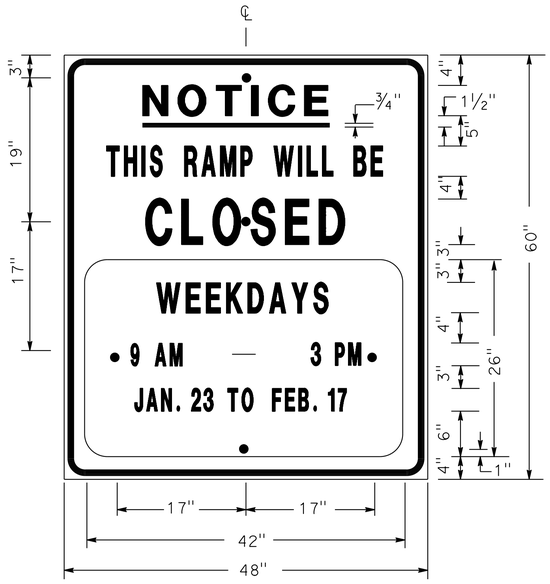
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 15 | 29 |

Denis Katayama 1-12-16
REGISTERED CIVIL ENGINEER DATE

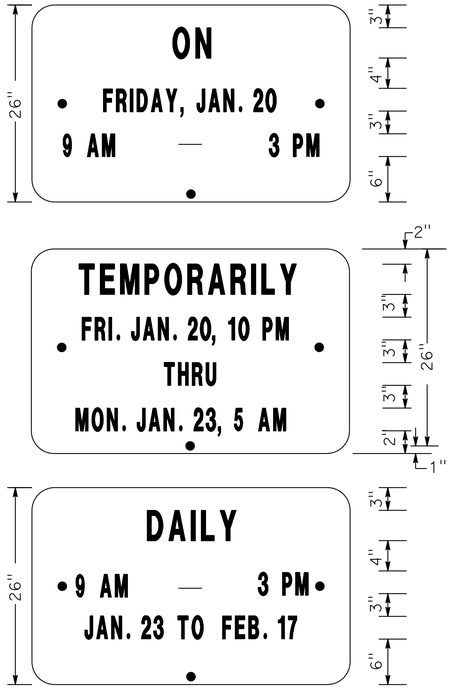
7-7-16
PLANS APPROVAL DATE

D.S. KATAYAMA No. C50648 Exp. 9-30-17 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



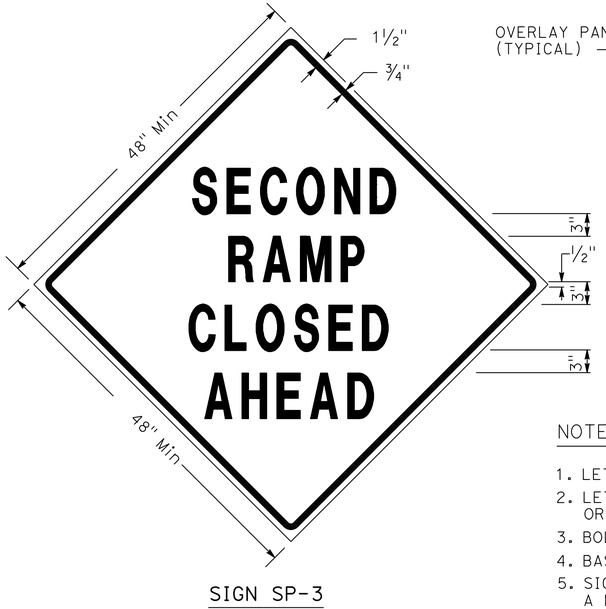

ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: SIGN SP-1

1. LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
2. BOLT HOLES MUST BE 3/8" 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" | 1 1/4" | 3/4" | 4E | 4D | 6E | 4D | | 3" |
| 42"x26" | OVERLAY | | | | | | 3D | 1 1/2" |
| * CONDENSED SPACING IF NECESSARY | | | | | | | | |

## SPECIAL ADVANCE NOTICE PUBLICITY SIGN



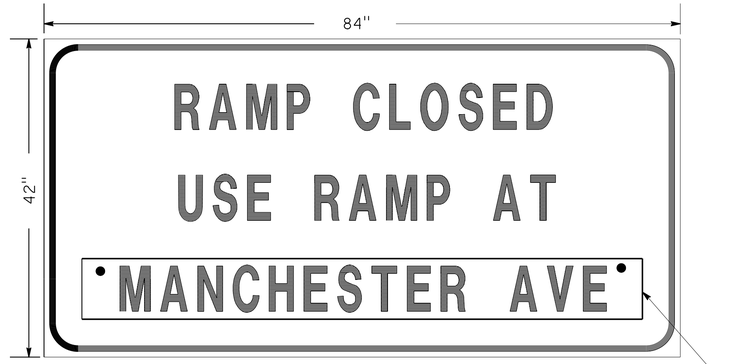

SIGN SP-3


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 3/8" 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

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 3/8" 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 | JC | REVISED BY | HONG-THUY VU |
| | 2/14 | DATE REVISED | DENIS KATAYAMA |
| FUNCTIONAL SUPERVISOR | SAMUEL ESQUENAZI | | |
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DTM | Caltrans® | |

LAST REVISION: DATE PLOTTED => 26-JUL-2016 TIME PLOTTED => 07:14
00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME => S129395 DGN FILE => 730030me001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1882 | PROJECT NUMBER & PHASE 07130004361

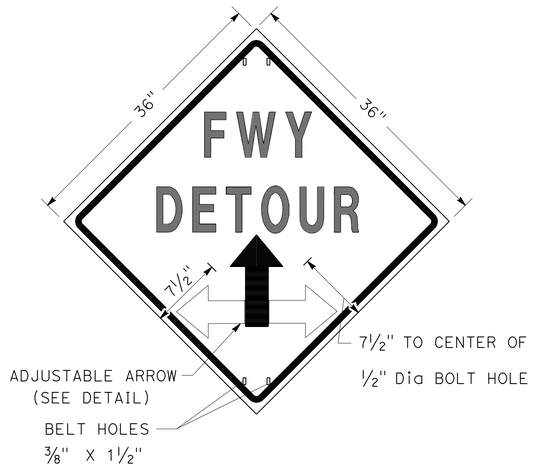
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 16 | 29 |

Denis Katayama 1-12-16
REGISTERED CIVIL ENGINEER DATE

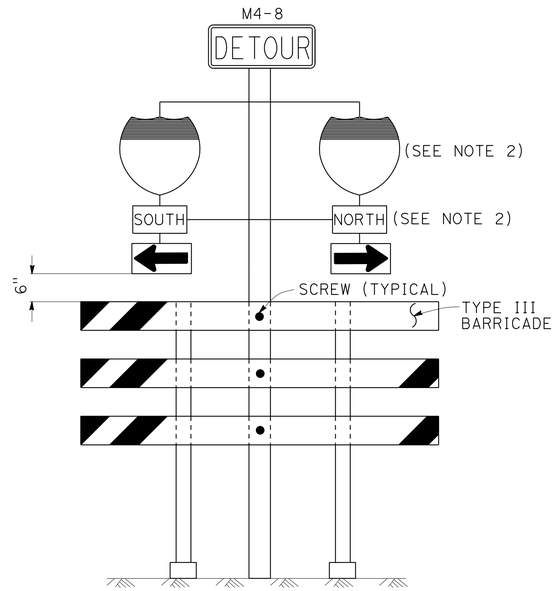
7-7-16
PLANS APPROVAL DATE

D.S. KATAYAMA No. C50648 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

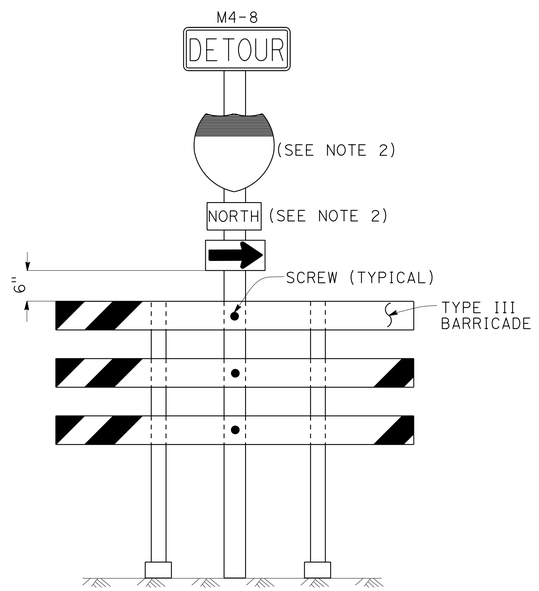
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.




SIGN SP-2




SIGN SP-6 (SEE NOTE 1)




SIGN SP-7 (SEE NOTE 1)

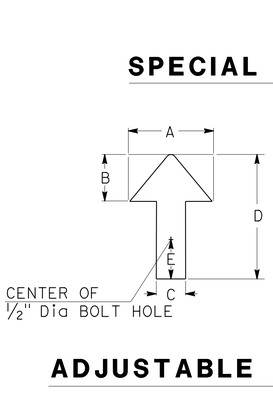
NOTES: SIGN SP-2

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 — DTM — Caltrans®

FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI

CALCULATED-DESIGNED BY: HONG-THUY VU
CHECKED BY: DENIS KATAYAMA

REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION: DATE PLOTTED => 26-JUL-2016 TIME PLOTTED => 07:14
00-00-00

BORDER LAST REVISED 7/2/2010 | USERNAME => S129395 DGN FILE => 730030me002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1882 | PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 17 | 29 |

Denis Katayama 1-12-16
REGISTERED CIVIL ENGINEER DATE

7-7-16
PLANS APPROVAL DATE

D.S. KATAYAMA No. C50648 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

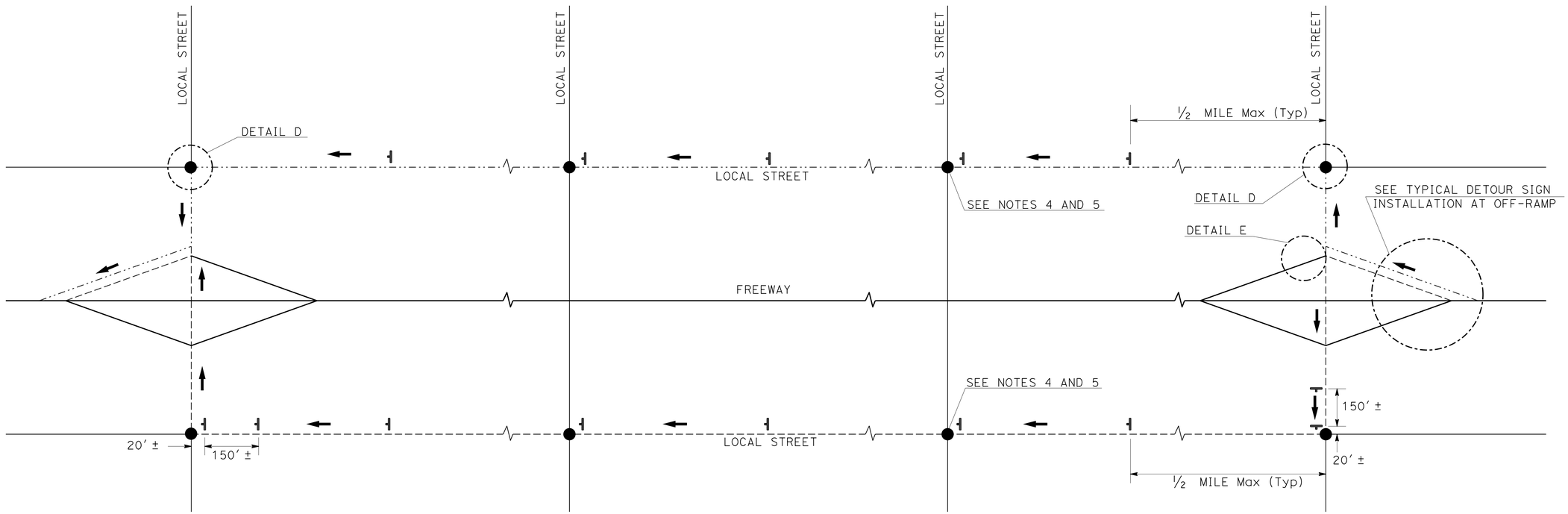
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

## 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**

CALCULATED-DESIGNED BY: HONG-THUY VU
CHECKED BY: DENIS KATAYAMA
FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

REVISED BY: JC
DATE REVISED: 2/14

LAST REVISION: DATE PLOTTED => 26-JUL-2016
TIME PLOTTED => 07:14
00-00-00

BORDER LAST REVISED 7/2/2010
USERNAME => S129395
DGN FILE => 730030me003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1882
PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 18 | 29 |

Denis Katayama 1-12-16
REGISTERED CIVIL ENGINEER DATE

7-7-16
PLANS APPROVAL DATE

D.S. KATAYAMA No. C50648 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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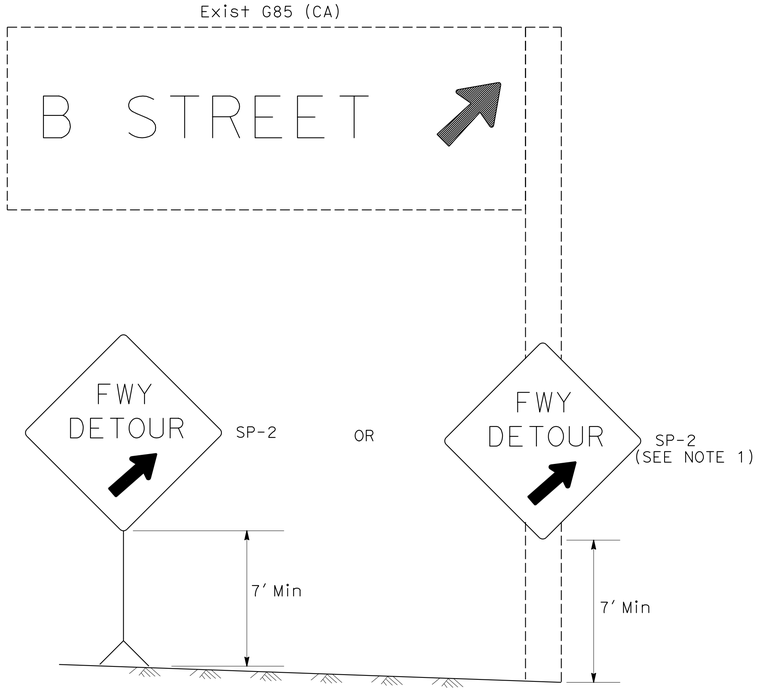
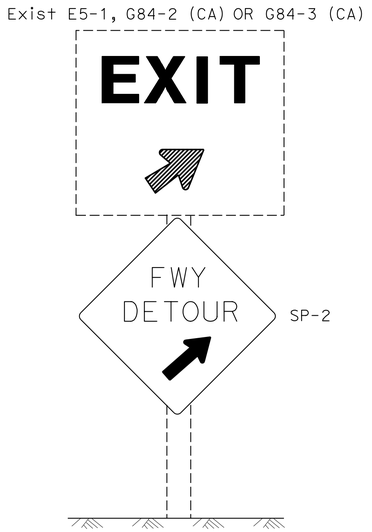
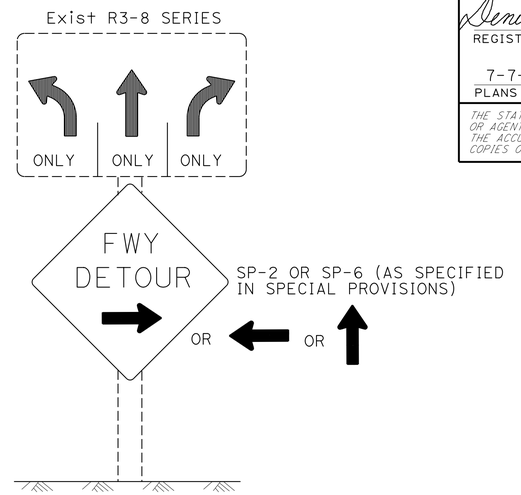
CALCULATED-DESIGNED BY: HONG-THUY VU
CHECKED BY: DENIS KATAYAMA
REVISED BY: JC
DATE REVISED: 2/14
FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans®



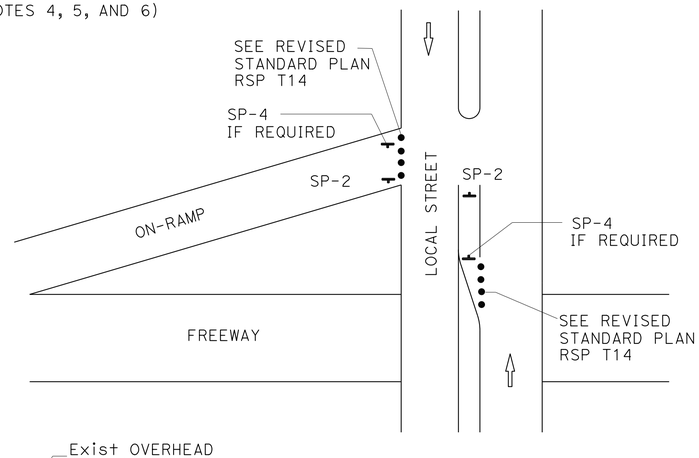

DETAIL A (SEE NOTE 3)



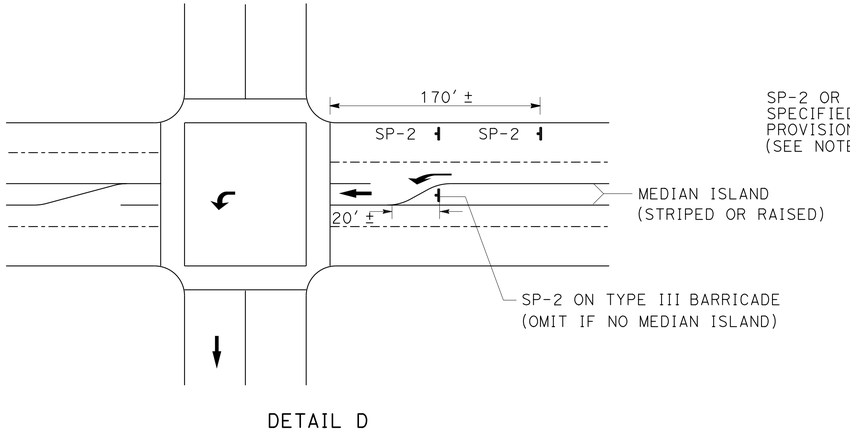

DETAIL B (SEE NOTE 3)



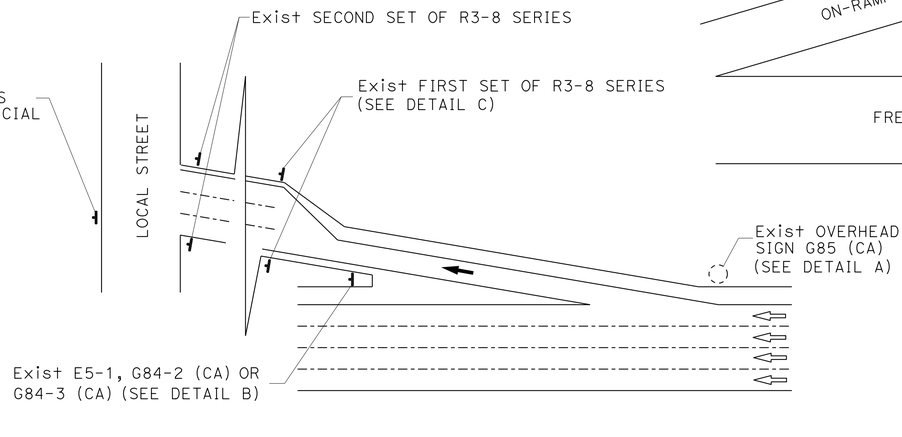

DETAIL C (SEE NOTES 4, 5, AND 6)




DETAIL E




DETAIL D




## TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

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.

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- DETOUR DIRECTION
- EXISTING OVERHEAD SIGN

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**

LAST REVISION: DATE PLOTTED => 26-JUL-2016
00-00-00 TIME PLOTTED => 07:14

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 19 | 29 |

Denis Katayama 1-12-16
REGISTERED CIVIL ENGINEER DATE

7-7-16
PLANS APPROVAL DATE

D.S. KATAYAMA No. C50648 Exp. 9-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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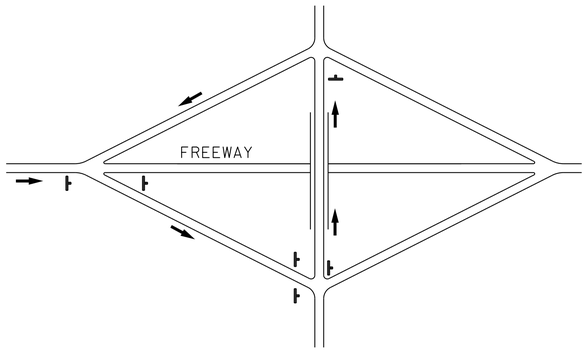
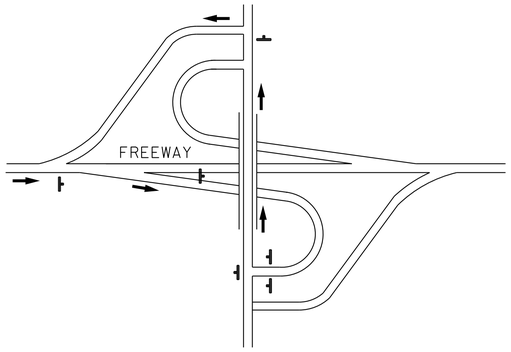
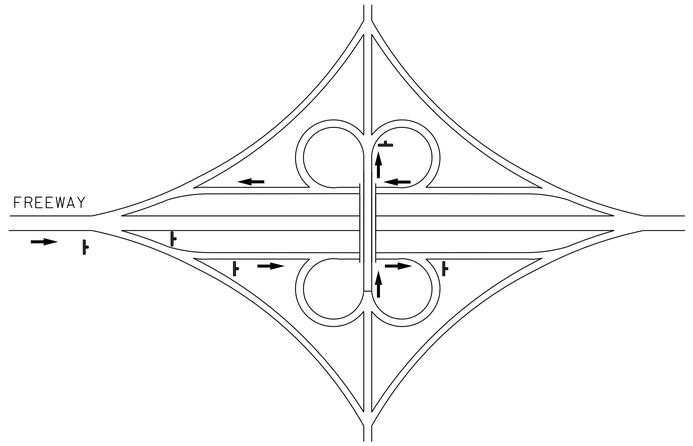


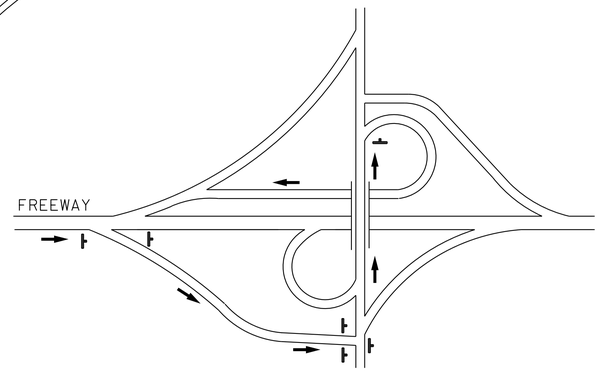

TYPE I



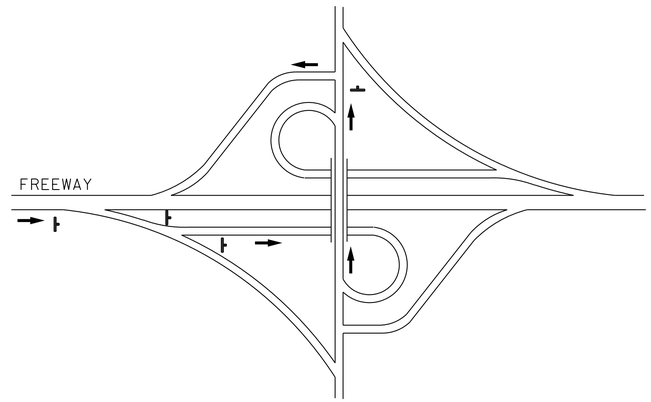

TYPE II



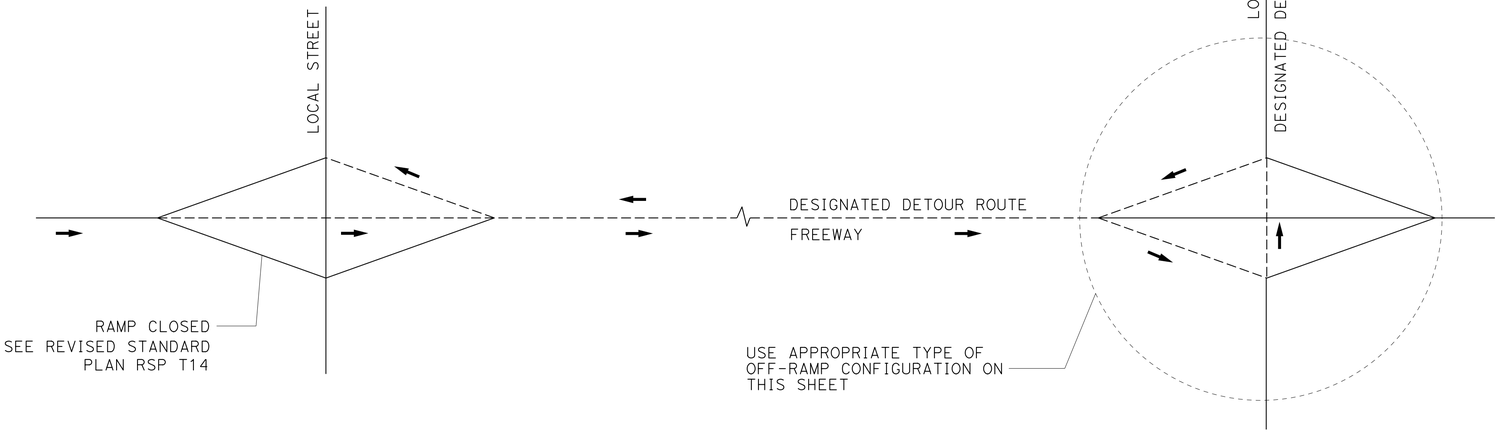

TYPE III




TYPE IV




TYPE V




| 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
HONG-THUY VU
DENIS KATAYAMA
REVISED BY
DATE REVISED
JC
2/14
FUNCTIONAL SUPERVISOR
SAMUEL ESQUENAZI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans

LAST REVISION DATE PLOTTED => 26-JUL-2016
00-00-00 TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010
USERNAME => S129395
DGN FILE => 730030me005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1882
PROJECT NUMBER & PHASE 07130004361

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 20 | 29 |

REGISTERED CIVIL ENGINEER — DATE 2-2-16

PLANS APPROVAL DATE 7-7-16

MARVIN J. DAVIS No. C70638 Exp. 6-30-17 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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## ROADWAY QUANTITIES

| SHEET NUMBER | LOCATION NUMBER | RECONSTRUCT CHAIN LINK FENCE | ROADWAY EXCAVATION | ROADWAY EXCAVATION (TYPE Z-2)(AERIALLY DEPOSITED LEAD) | SLOPE PAVING (CONCRETE) WITH ROCK COBBLES | MINOR CONCRETE (GUTTER) | REMOVE CONCRETE (CURB AND GUTTER) | REMOVE CONCRETE SIDEWALK (SQYD) | 4" PLASTIC PIPE UNDERDRAIN | BAR REINFORCING STEEL | MINOR CONCRETE (SIDEWALK) | MINOR CONCRETE (CURB AND GUTTER) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LF | CY | CY | CY | LF | LF | SQYD | LF | LB | CY | CY |
| L-1 | 1 | 20 | 264 | | 264 | | 16 | | 87.6 | 1.5 | | 1.0 |
| L-2 | 2 | 40 | 241 | | 241 | | 16 | 20.1 | 135.6 | 1.5 | 2.0 | 1.0 |
| L-3 | 3 | 40 | 194 | | 174 | 159 | | | | | | |
| L-4 | 4 | 548 | 137 | 136 | 273 | | 12 | 9.7 | 65.7 | 1.1 | 1.0 | 0.8 |
| L-5 | 5 | 40 | 103 | | 103 | | | | | | | |
| L-6 | 6 | | | 183 | 183 | | | | | | | |
| L-7 | 7 | | | 130 | 130 | | | | | | | |
| L-8 | 8 | | | 200 | 200 | | | | | | | |
| L-9 | 9 | | 272 | | 272 | | | | | | | |
| | | | | | | | | | | | | |
| TOTAL | | 688 | 1,211 | 649 | 1,840 | 159 | 44 | 29.8 | 288.9 | 4.1 | 3.0 | 2.8 |

## TEMPORARY WATER POLLUTION CONTROL QUANTITIES

| SHEET NUMBER | LOCATION NUMBER | TEMPORARY FIBER ROLL | TEMPORARY DRAINAGE INLET PROTECTION |
|---|---|---|---|
| | | LF | EA |
| L-1 | 1 | 344 | |
| L-2 | 2 | 344 | |
| L-3 | 3 | 274 | |
| L-4 | 4 | 350 | |
| L-5 | 5 | 234 | |
| L-6 | 6 | 240 | |
| L-7 | 7 | 167 | 1 |
| L-8 | 8 | 212 | |
| L-9 | 9 | 579 | 1 |
| | | | |
| TOTAL | | 2,744 | 2 |

## SUMMARY OF QUANTITIES

Q-1

| | | | |
|---|---|---|---|
| CALCULATED-DESIGNED BY | MARVIN DAVIS | REVISED BY | |
| CHECKED BY | H. S. CHEN | DATE REVISED | |
| FUNCTIONAL SUPERVISOR | RICHARD CHIANG | | |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 26-JUL-2016 | TIME PLOTTED => 07:14

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 730030pa001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1795 | PROJECT NUMBER & PHASE 07130004361

## 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,<br>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,<br>PRECAST |
| PCC | POINT OF COMPOUND CURVE,<br>PORTLAND CEMENT CONCRETE |
| PCMS | PORTABLE CHANGEABLE MESSAGE SIGN |
| PCP | PERFORATED CONCRETE PIPE,<br>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,<br>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,<br>PLASTIC PIPE,<br>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,<br>REINFORCEMENT,<br>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,<br>REFERENCE POINT |
| RR | RAILROAD |
| RSP | ROCK SLOPE PROTECTION,<br>REVISED STANDARD PLAN |
| Rt | RIGHT |
| Rte | ROUTE |
| RW | REDWOOD,<br>RETAINING WALL |
| R/W | RIGHT OF WAY |
| Rwy | RAILWAY |

## S

| | |
|---|---|
| S | SOUTH,<br>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,<br>SECTION |
| Sep | SEPARATION |
| SG | SUBGRADE |
| Shld | SHOULDER |
| Sht | SHEET |
| Sim | SIMILAR |
| ℄ | STATION LINE |
| SM | SELECTED MATERIAL |
| Spec | SPECIAL,<br>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,<br>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,<br>TRAFFIC SIGNAL,<br>TUBULAR STEEL |
| Typ | TYPICAL |

## U

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

## V

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

## W

| | |
|---|---|
| W | WEST,<br>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 | 57, 210 | Var | 21 | 29 |

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 7-7-16

### 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 | 57, 210 | Var | 22 | 29 |

REGISTERED CIVIL ENGINEER

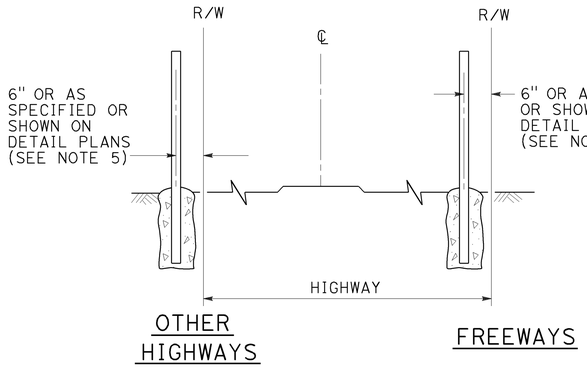
July 15, 2016
PLANS APPROVAL DATE

Sukhdeep Singh Sandher
No. C74893
Exp. 12-31-17
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

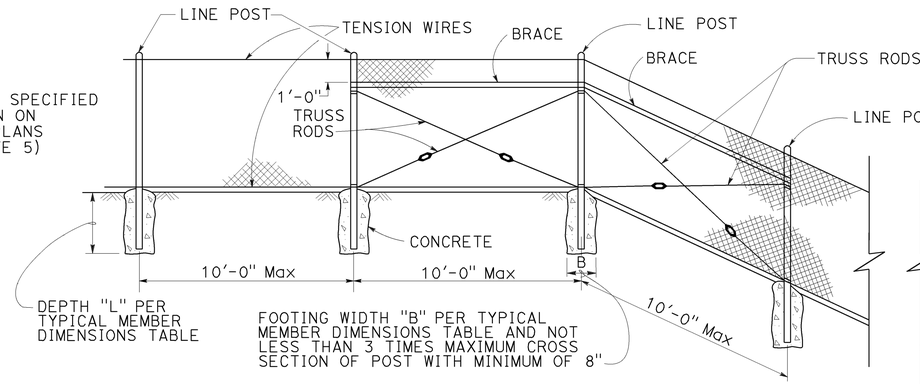
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 7-7-16

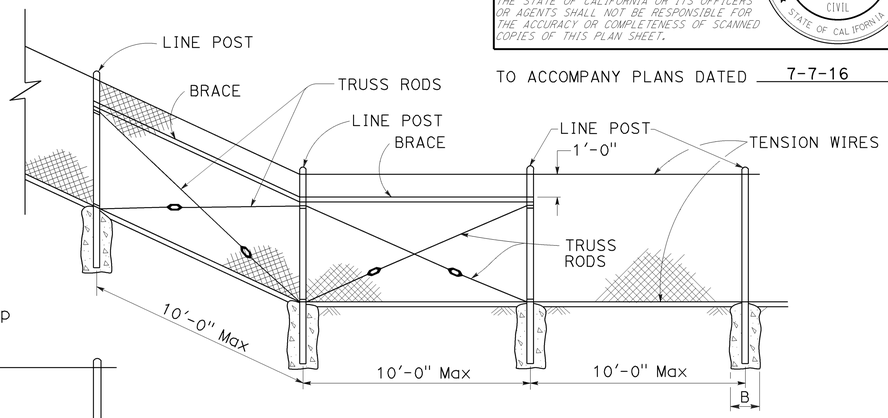
2010 REVISED STANDARD PLAN RSP A85

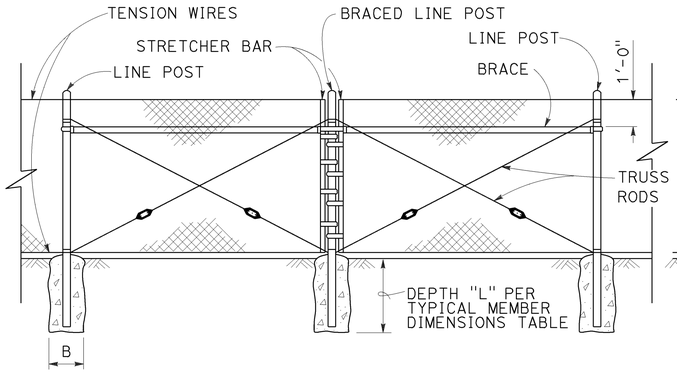



## FENCE LOCATION



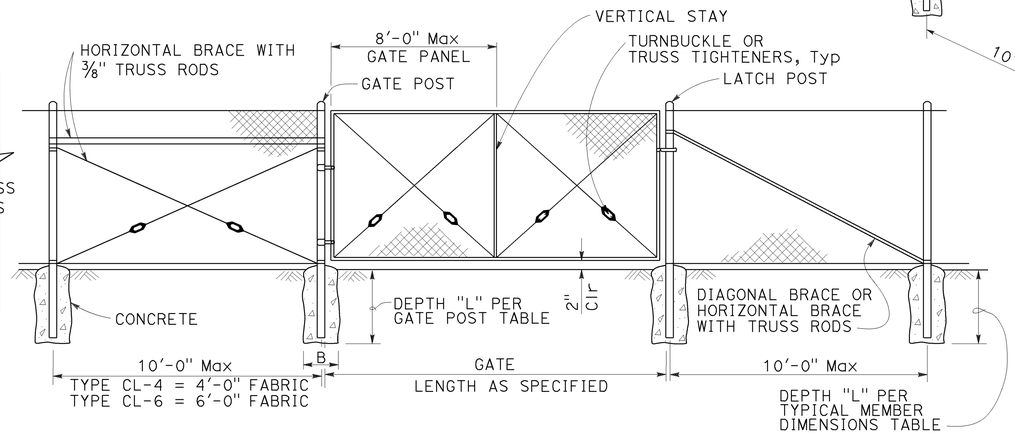

## CHAIN LINK FENCE ON SHARP BREAK IN GRADE



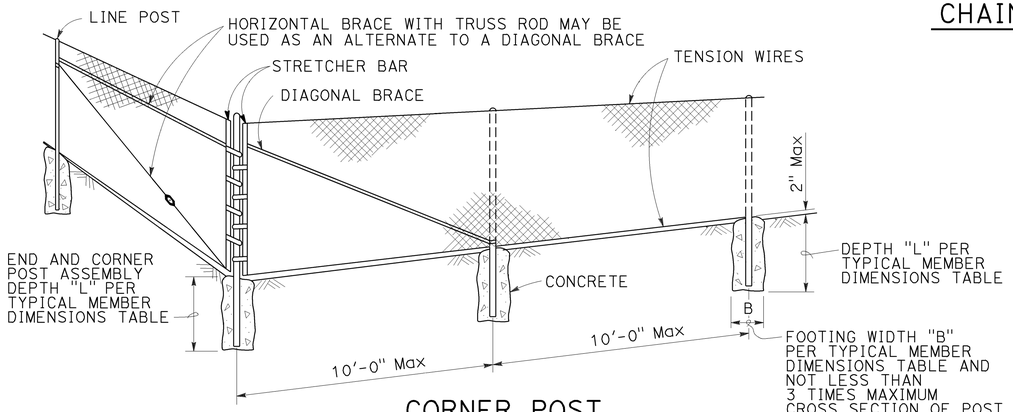




## BRACED LINE POST INSTALLATION

Braced line post at intervals not exceeding 1000'




## CHAIN LINK GATE INSTALLATION




## CORNER POST

### GATE POST

| FENCE HEIGHT (Max) | SLATTED | B (in) | L (ft) | ROUND PIPE | | |
|---|---|---|---|---|---|---|
| | | | | SECTION | ROUND OD PIPE | WEIGHT (lb/ft) |
| 5'-0" | NO | 12" | 2'-6" | 3 Std | 3.50" | 7.58 |
| 6'-0" | NO | 12" | 2'-6" | 3 Std | 3.50" | 7.58 |
| 8'-0" | NO | 12" | 3'-0" | 3 Std | 3.50" | 7.58 |
| 10'-0" | NO | 14" | 3'-6" | 3 Std | 3.50" | 7.58 |
| 5'-0" | YES | 12" | 3'-0" | 3½ Std | 4.00" | 9.12 |
| 6'-0" | YES | 14" | 3'-6" | 4 Std | 4.50" | 10.80 |
| 8'-0" | YES | 18" | 3'-6" | 5 Std | 5.56" | 14.60 |
| 10'-0" | YES | 20" | 4'-0" | 6 Std | 6.63" | 19.00 |

Above post dimensions and weights are minimums.
Larger sizes may be used upon approval.
Maximum Gate Width is 24'-0".

### TYPICAL MEMBER DIMENSIONS (See Notes)

| FENCE HEIGHT (Max) | SLATTED | B (in) | L (ft) | LINE POSTS | | | | | BRACES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ROUND PIPE | | | ROLL FORMED | | ROUND PIPE | | | ROLL FORMED | |
| | | | | SECTION | ROUND OD PIPE | WEIGHT (lb/ft) | SECTION | WEIGHT (lb/ft) | SECTION | ROUND OD PIPE | WEIGHT (lb/ft) | SECTION | WEIGHT (lb/ft) |
| 5'-0" | NO | 8" | 2'-6" | 1½ Std | 1.90" | 2.72 | 1.875" x 1.625" | 1.85 | 2 Std | 2.38" | 3.66 | 1.625" x 1.250" | 1.35 |
| 6'-0" | NO | 10" | 2'-6" | 2 Std | 2.38" | 3.66 | 1.875" x 1.625" | 2.40 | 2 Std | 2.38" | 3.66 | 1.625" x 1.250" | 1.35 |
| 8'-0" | NO | 12" | 3'-0" | 2½ Std | 2.88" | 5.80 | 3.250" x 2.500" | 4.50 | 2 Std | 2.38" | 3.66 | 1.625" x 1.250" | 1.35 |
| 10'-0" | NO | 14" | 3'-6" | 3 Std | 3.50" | 7.58 | 3.250" x 2.500" | 4.50 | 2½ Std | 2.88" | 5.80 | 1.625" x 1.250" | 1.35 |
| 5'-0" | YES | 12" | 3'-0" | 3½ Std | 4.00" | 9.12 | N/A | - | 2 Std | 2.38" | 3.66 | N/A | - |
| 6'-0" | YES | 14" | 3'-0" | 4 Std | 4.50" | 10.80 | N/A | - | 2 Std | 2.38" | 3.66 | N/A | - |
| 8'-0" | YES | 18" | 3'-6" | 5 Std | 5.56" | 14.60 | N/A | - | 2 Std | 2.38" | 3.66 | N/A | - |
| 10'-0" | YES | 20" | 4'-0" | 6 Std | 6.63" | 19.00 | N/A | - | 2½ Std | 2.88" | 5.80 | N/A | - |

NOTES:

1. The table to the right shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
2. Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
3. Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
4. Options exercised shall be uniform on any one project.
5. Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
6. See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# CHAIN LINK FENCE

NO SCALE

RSP A85 DATED JULY 15, 2016 SUPERSEDES RSP A85 DATED JULY 18, 2014 AND STANDARD PLAN A85 DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

# REVISED STANDARD PLAN RSP A85

6-29-16

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 23 | 29 |

REGISTERED CIVIL ENGINEER

July 15, 2016
PLANS APPROVAL DATE

Sukhdeep Singh Sandher
No. C74893
Exp. 12-31-17
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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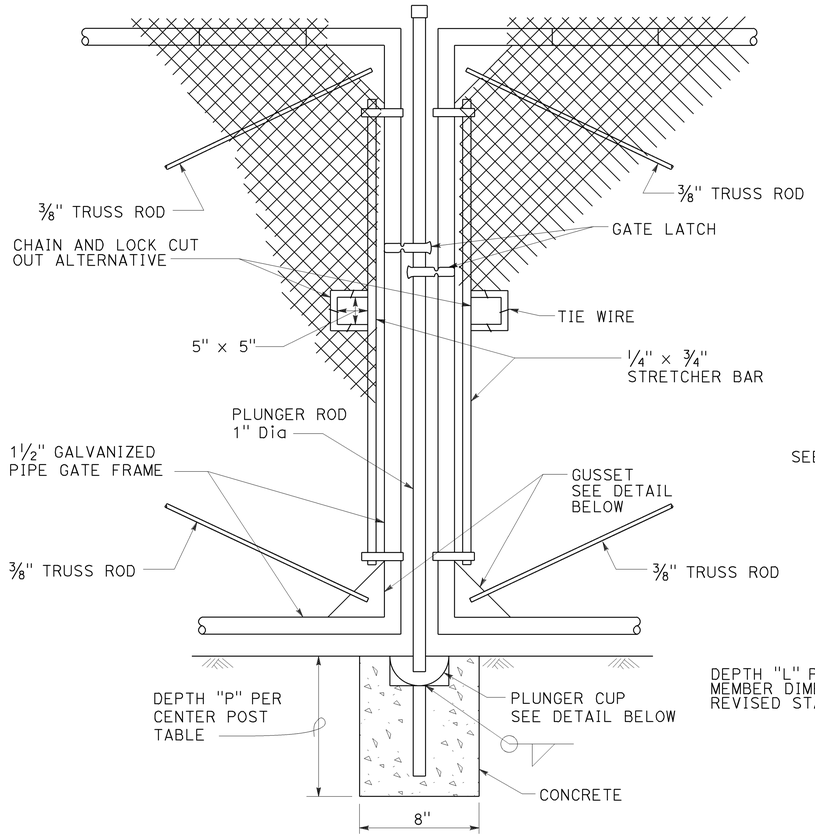
TO ACCOMPANY PLANS DATED 7-7-16

2010 REVISED STANDARD PLAN RSP A85A

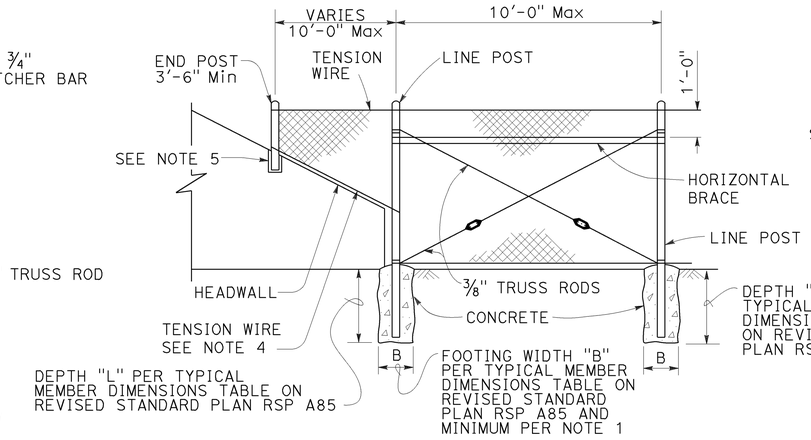



DOUBLE GATE
REMOVABLE CENTER POST

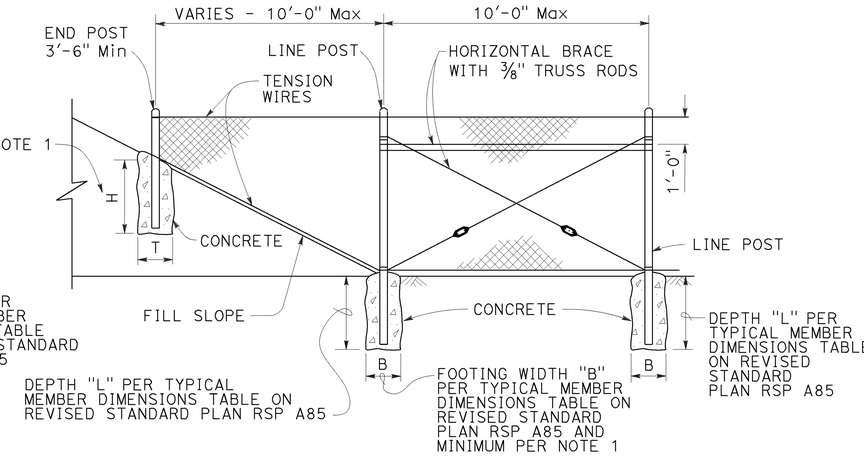
| CENTER POST | | |
|---|---|---|
| FENCE HEIGHT (Max) | SLATTED | P |
| ALL HEIGHTS | NO | 1'-6" |
| 5'-0" | YES | 3'-0" |
| 6'-0" | YES | 3'-0" |
| 8'-0" | YES | 3'-6" |
| 10'-0" | YES | 4'-0" |

NOTES:

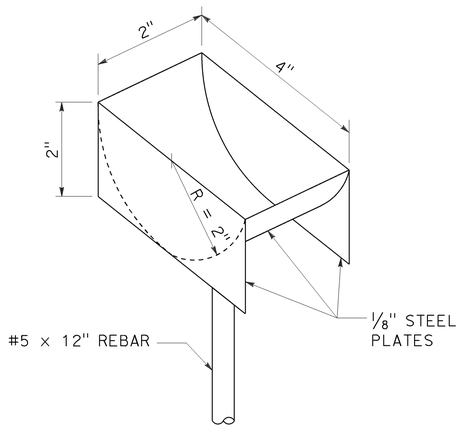
1. B is not less than 3 times maximum cross section of post with minimum of 8".
2. See Revised Standard Plan RSP A85 for Chain Link Fencing dimensions.
3. See Detail A on Standard Plan A86B for connection at headwall.
4. See Detail D on Standard Plan A86B for connection at headwall.



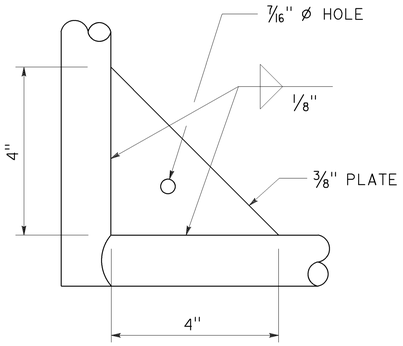

METHOD OF TYING FENCE TO HEADWALL



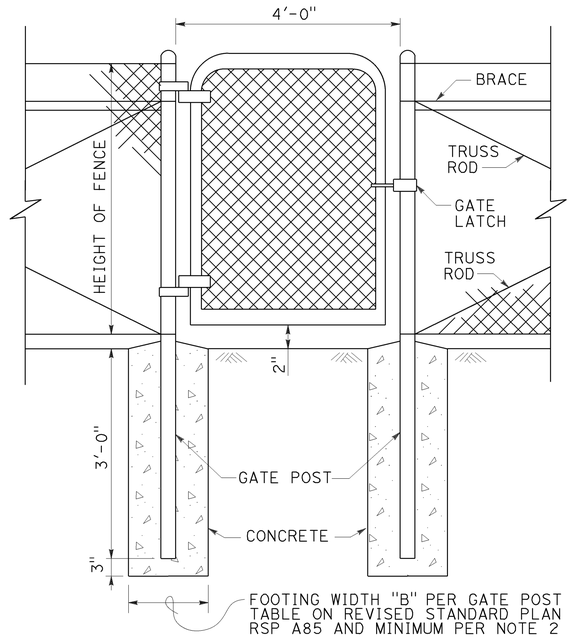

METHOD OF ERECTING FENCE FOR FILL SLOPE



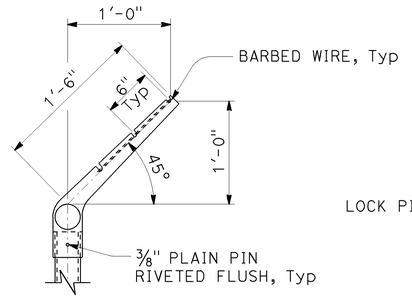

PLUNGER CUP DETAIL



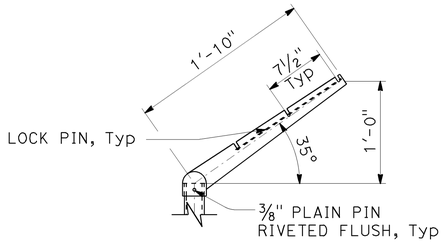

GUSSET DETAIL




WALK GATE




LINE POST




CORNER POST

BARBED WIRE POST TOP

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85A DATED JULY 15, 2016 SUPERSEDES STANDARD PLAN A85A
DATED MAY 20, 2011 - PAGE 113 OF THE STANDARD PLANS BOOK DATED 2010.

## REVISED STANDARD PLAN RSP A85A

6-16-16

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 24 | 29 |

Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Glenn DeCou — No. C34547 — Exp. 9-30-13 — CIVIL — STATE OF CALIFORNIA

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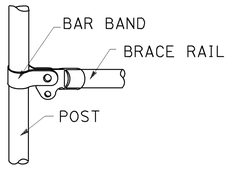
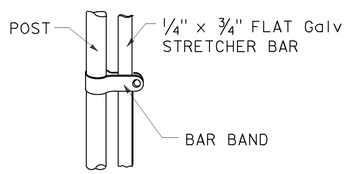
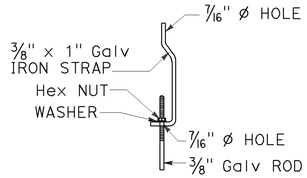
TO ACCOMPANY PLANS DATED 7-7-16




BRACE RAIL



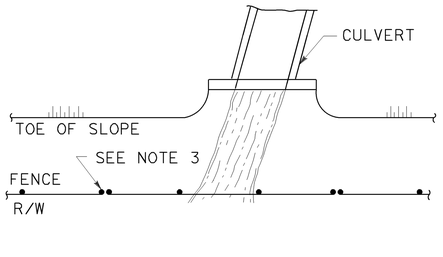

STRETCHER BAR



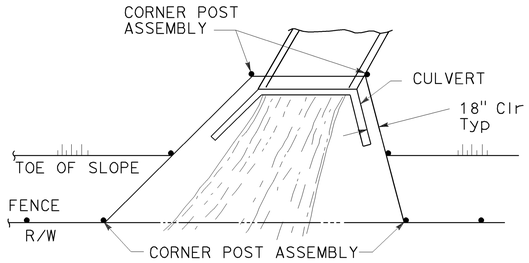

TRUSS TIGHTENER

## NOTES:

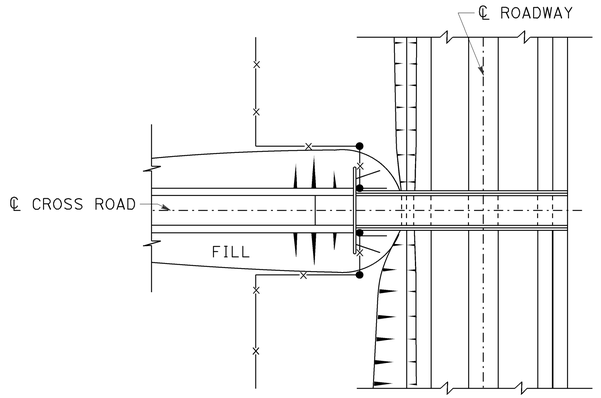
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



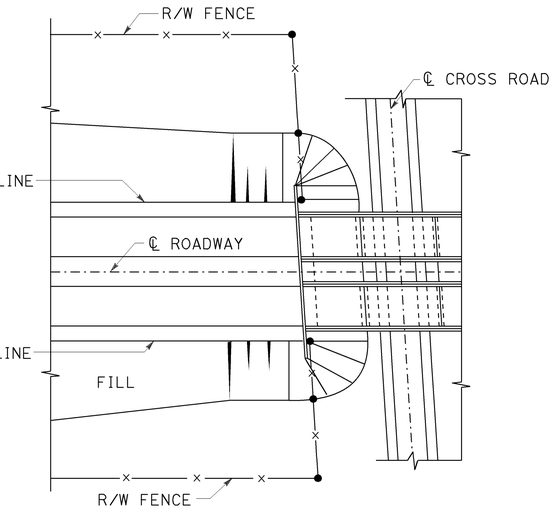

PLAN



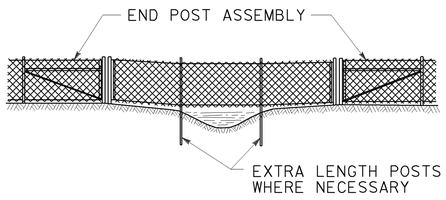

PLAN




PLAN OF ROADWAY - OVERCROSSING

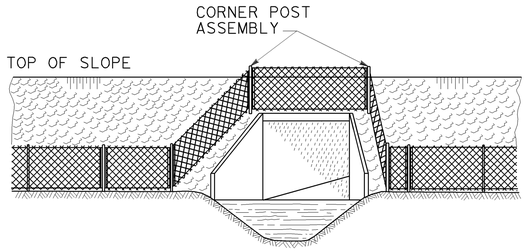



PLAN OF ROADWAY - UNDERCROSSING




ELEVATION

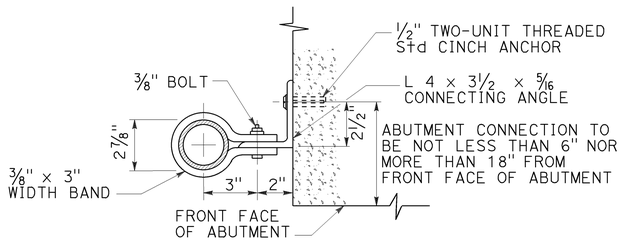
INSTALLATION OVER STREAM




ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4




ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A85B**

**2010 REVISED STANDARD PLAN RSP A85B**

7-19-12

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 25 | 29 |

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Michael Janzen — No. 44788 — Exp. 03-31-14 — CIVIL — STATE OF CALIFORNIA

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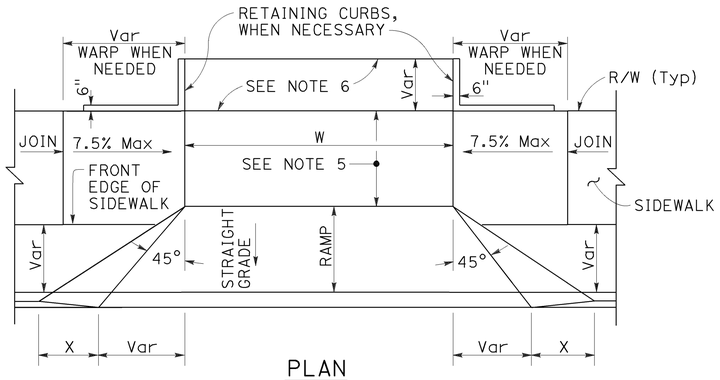
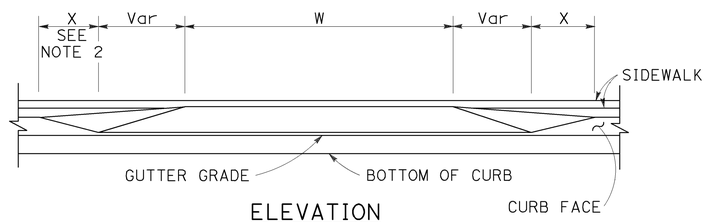
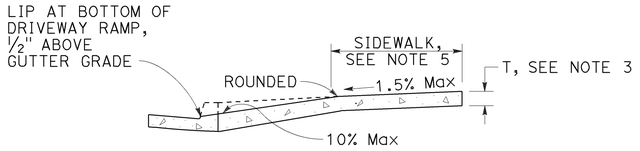
TO ACCOMPANY PLANS DATED 7-7-16




PLAN

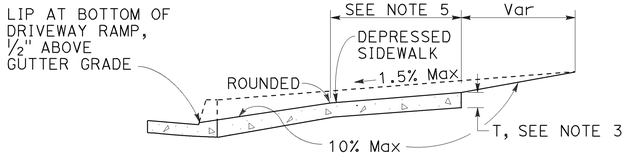



ELEVATION




CASE A

Typical driveway, sidewalk not depressed




CASE B

Driveway with depressed sidewalk

SECTIONS

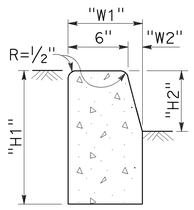
TABLE A

| CURB TYPE | DIMENSIONS | | | |
|---|---|---|---|---|
| | "H1" | "H2" | "W1" | "W2" |
| A1-6 | 1'-2" | 6" | 7½" | 1½" |
| A1-8 | 1'-4" | 8" | 8" | 2" |
| A2-6 | 1'-0" | 6" | 2'-7½" | 1½" |
| A2-8 | 1'-2" | 8" | 2'-8" | 2" |
| A3-6 | 6" | 5" | 7¼" | 1¼" |
| A3-8 | 8" | 7" | 7¾" | 1¾" |
| B1-4 | 1'-0" | 4" | 7½" | 2½" |
| B1-6 | 1'-2" | 6" | 9" | 4" |
| B2-4 | 10" | 4" | 2'-7½" | 2½" |
| B2-6 | 1'-0" | 6" | 2'-9" | 4" |
| B3-4 | 4" | 3" | 7" | 2" |
| B3-6 | 6" | 5" | 8½" | 3½" |
| D-4 | 10" | 4" | 1'-6" | 1'-1" |
| D-6 | 1'-0" | 6" | 2'-2" | 1'-9" |

CURB QUANTITIES

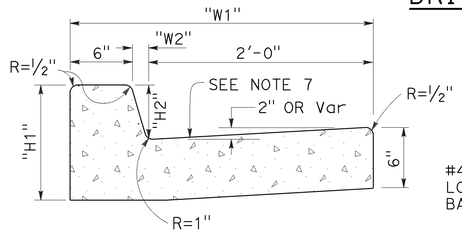
| TYPE | CUBIC YARDS PER LINEAR FOOT |
|---|---|
| A1-6 | 0.02585 |
| A1-8 | 0.03084 |
| A2-6 | 0.05903 |
| A2-8 | 0.06379 |
| A3-6 | 0.01036 |
| A3-8 | 0.01435 |
| B1-4 | 0.02185 |
| B1-6 | 0.02930 |
| B2-4 | 0.05515 |
| B2-6 | 0.06171 |
| B3-4 | 0.00641 |
| B3-6 | 0.01074 |
| B4 | 0.05709 |
| D-4 | 0.04083 |
| D-6 | 0.06804 |
| E | 0.06661 |

## DRIVEWAYS



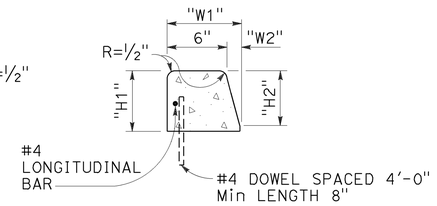

TYPE A1 CURBS

See Table A



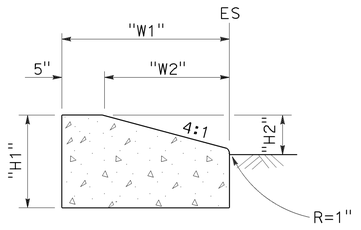

TYPE A2 CURBS

See Table A



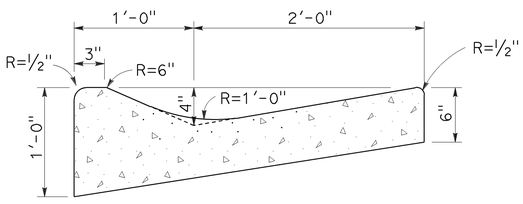

TYPE A3 CURBS

Superimposed on existing pavement
See Table A

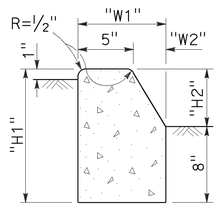



TYPE D CURBS

See Table A

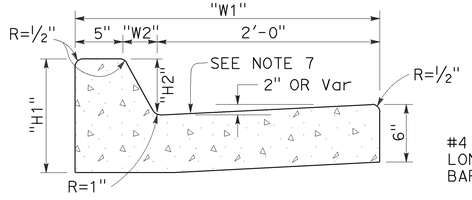



TYPE E CURB



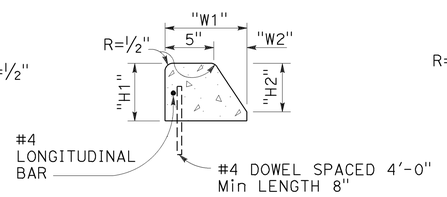

TYPE B1 CURBS

See Table A



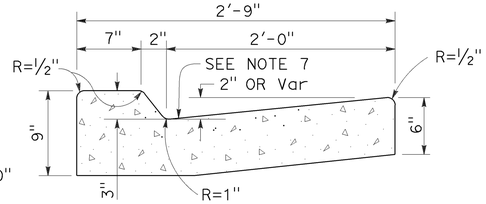

TYPE B2 CURBS

See Table A

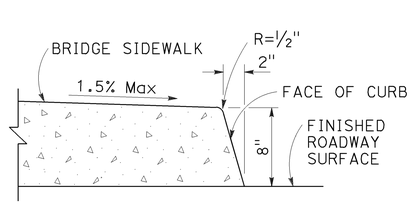



TYPE B3 CURBS

Superimposed on existing pavement
See Table A




TYPE B4 CURBS




TYPE H CURB

On Bridges

## CURBS

NOTES:

1. Case A driveway section typically applies.
2. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
3. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
4. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
5. Minimum width of clear passageway for sidewalk shall be 4'-2".
6. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
7. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87A
DATED MAY 20, 2011 - PAGE 119 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A87A**

2010 REVISED STANDARD PLAN RSP A87A

7-8-13

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 26 | 29 |

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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



TO ACCOMPANY PLANS DATED 7-7-16

## 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 | 57, 210 | Var | 27 | 29 |

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 7-7-16

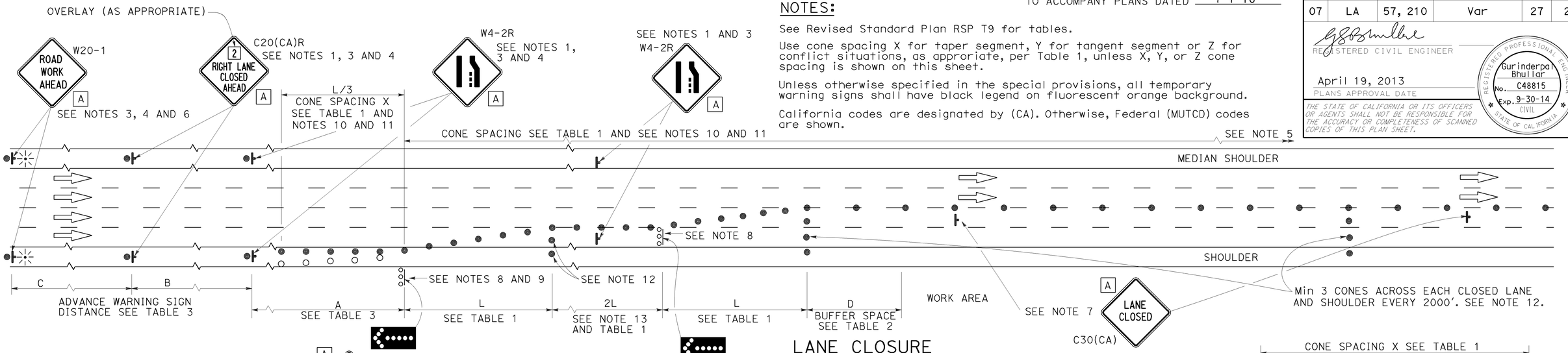
## NOTES:

See Revised Standard Plan RSP T9 for tables.

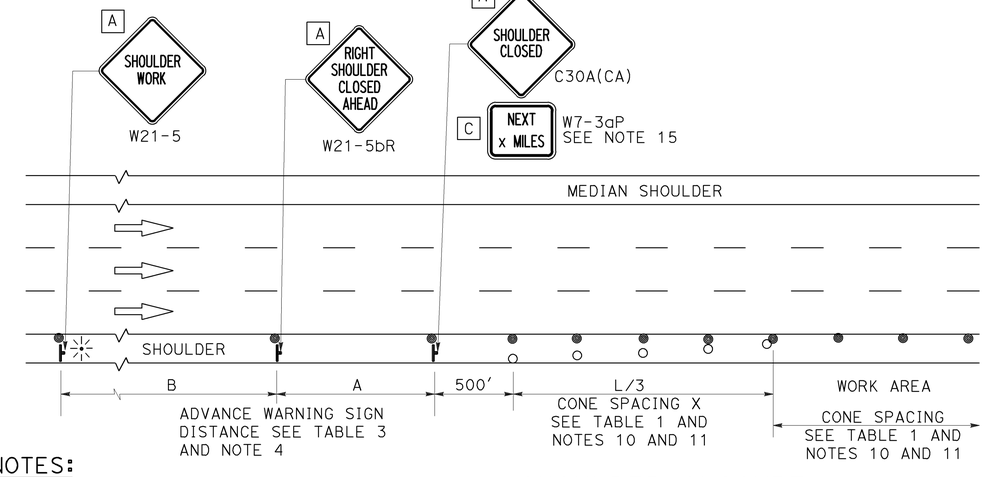
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

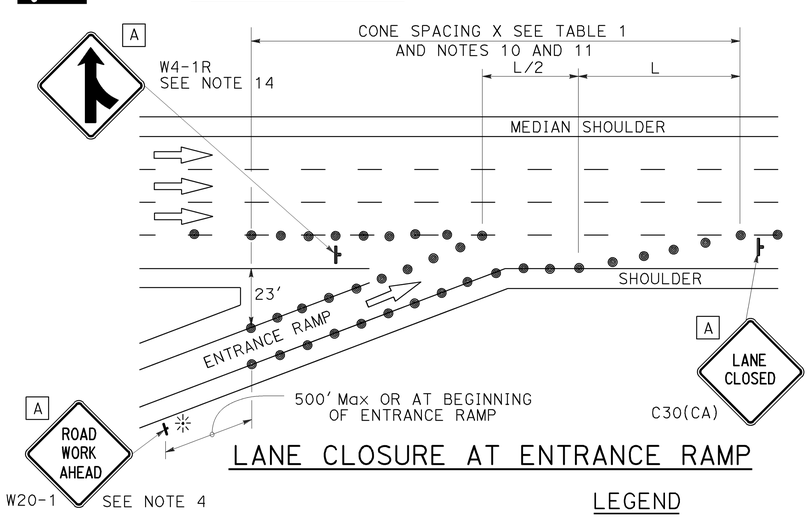
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

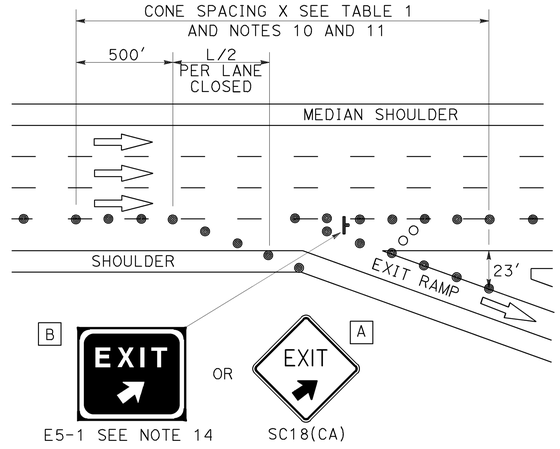



## LANE CLOSURE




## 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.

## SHOULDER CLOSURE

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 |
|---|---|---|---|---|---|
| 07 | LA | 57, 210 | Var | 28 | 29 |

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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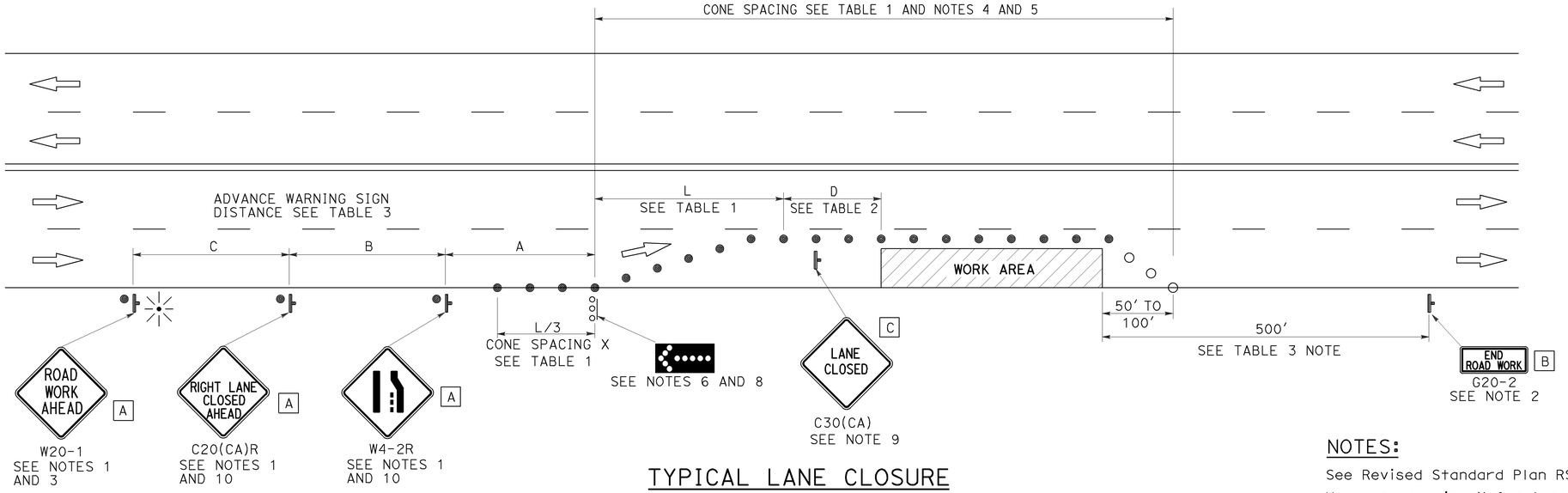
TO ACCOMPANY PLANS DATED 7-7-16




# TYPICAL LANE CLOSURE

## 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" × 48"
- B 36" × 18"
- C 30" × 30"

## 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

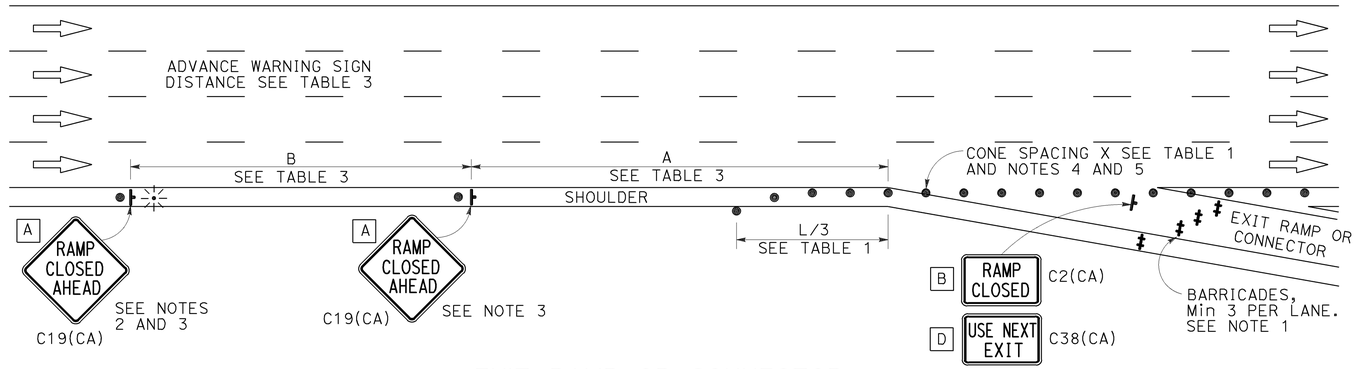
RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

# REVISED STANDARD PLAN RSP T11

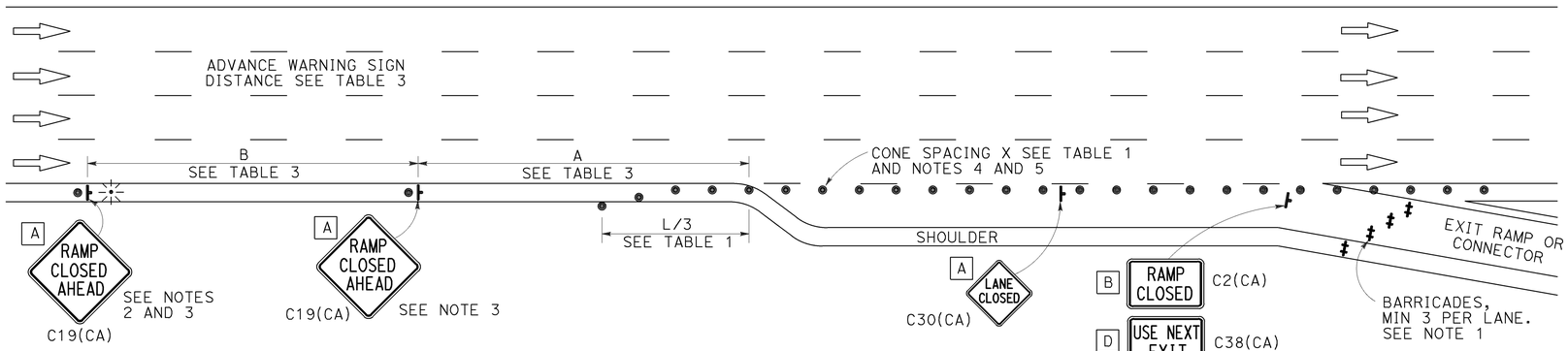
2010 REVISED STANDARD PLAN RSP T11

4-2-13

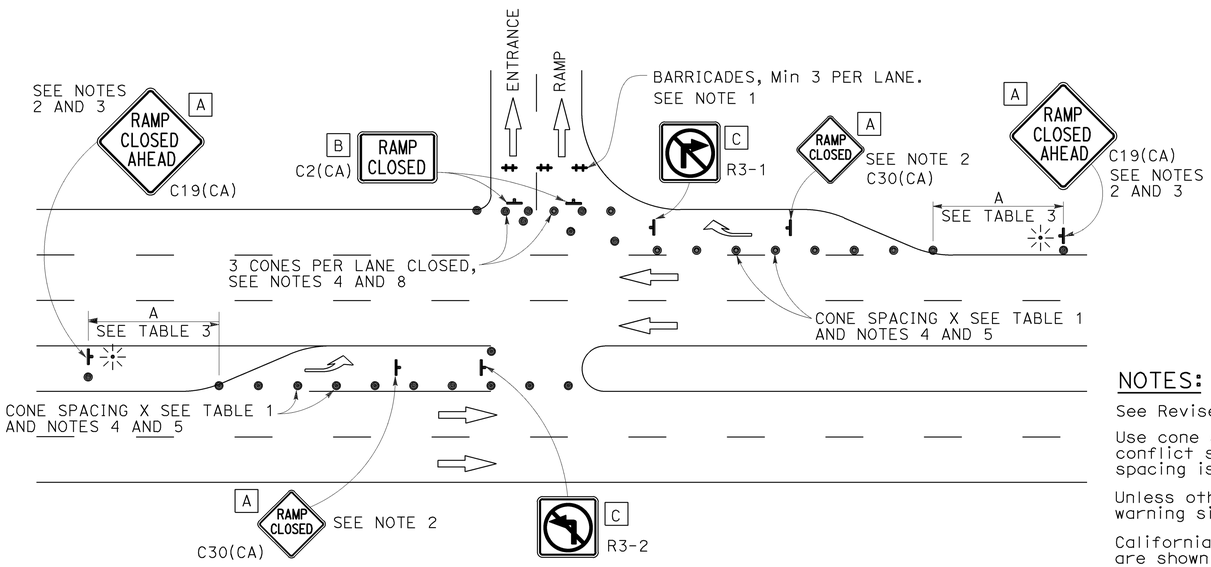
# TYPICAL RAMP CLOSURES



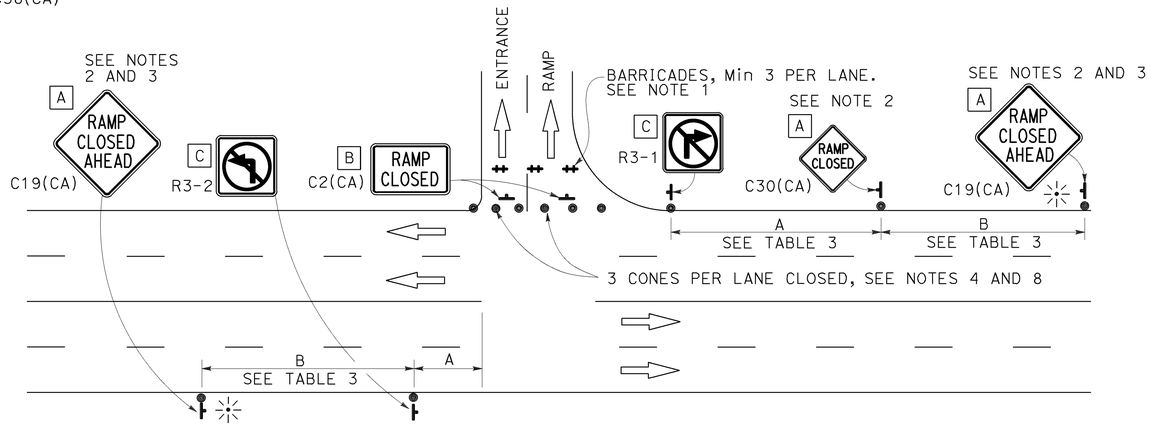

## EXIT RAMP OR CONNECTOR




## 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 | 57, 210 | Var | 29 | 29 |

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 7-7-16

## 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