INDEX OF PLANS

| SHEET No. | DESCRIPTION |
|---|---|
| 1 | TITLE AND LOCATION MAP |
| 2 | CONSTRUCTION AREA SIGNS |
| 3-4 | PAVEMENT DELINEATION QUANTITIES |
| 5-9 | NEW AND REVISED STANDARD PLANS |

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

STATE OF CALIFORNIA

# DEPARTMENT OF TRANSPORTATION

## PROJECT PLANS FOR CONSTRUCTION ON

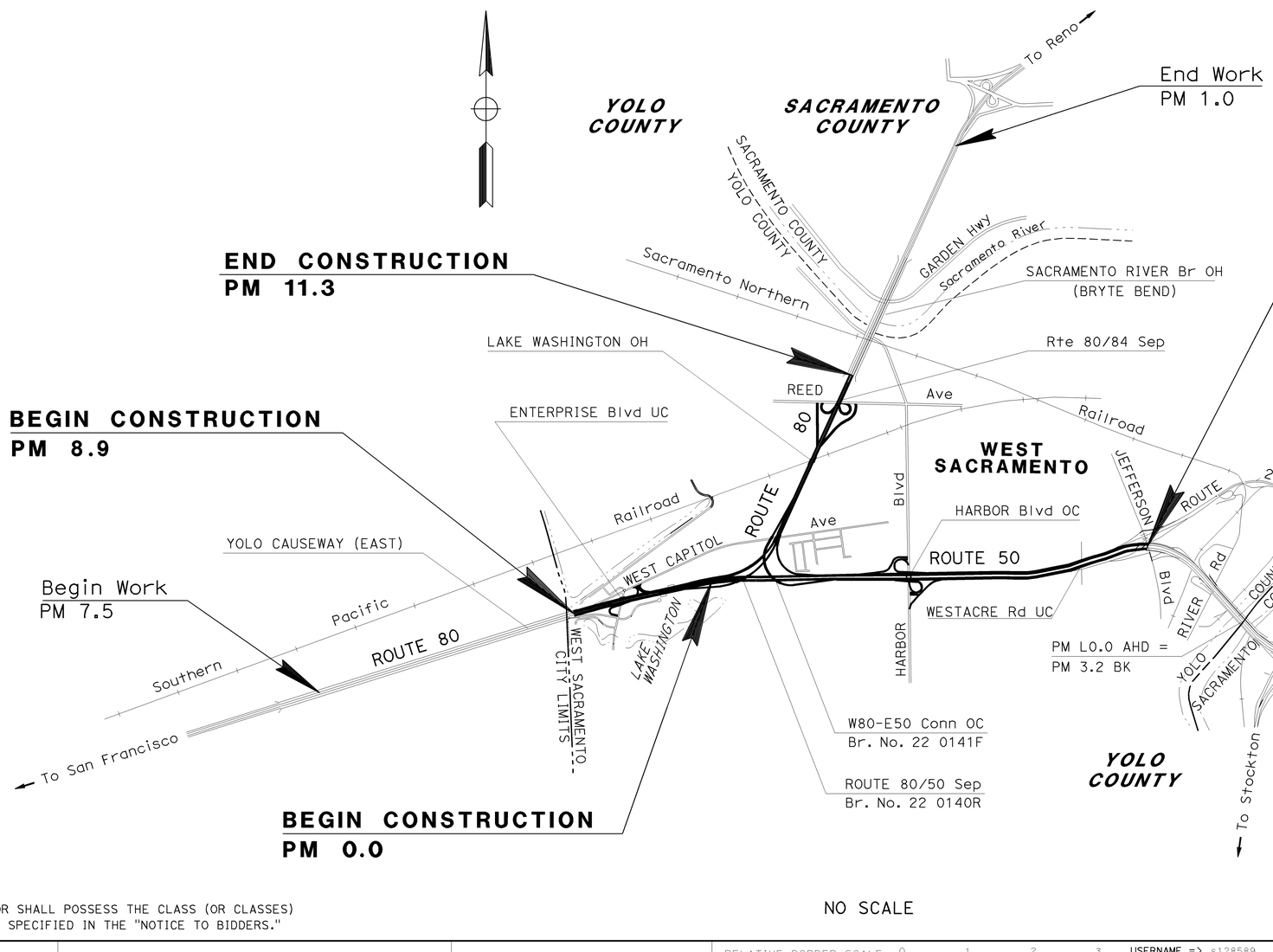
# STATE HIGHWAY

## IN YOLO COUNTY
## ON ROUTE 50 FROM THE ROUTE 50/80 CONNECTOR SEPARATION TO THE SACRAMENTO RIVER VIADUCT
## AND ON ROUTE 80 FROM 0.3 MILE WEST OF ENTERPRISE BOULEVARD TO THE SACRAMENTO RIVER BRYTE BEND BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6, 8.9/R11.3 | 1 | 9 |

LOCATION MAP




## END CONSTRUCTION
## PM 2.6

NO SCALE

James M. Ferreira 2-2-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

Febrauary 6, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JIM FERREIRA
No. 48257
Exp. 6/30/12
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.

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

| | |
|---|---|
| CONTRACT No. | 03-4m3804 |
| PROJECT ID | 0300020537 |

PROJECT MANAGER: RON SYKES
DESIGN ENGINEER: RON SYKES

LAST REVISION: DATE PLOTTED => 08-FEB-2012, TIME PLOTTED => 14:46, 00-00-00

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s128589 DGN FILE => 0300020537ab001.dgn | UNIT 0484 | PROJECT NUMBER & PHASE 03000205371

# STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN LETTER | SIGN CODE | | PANEL SIZE | SIGN MESSAGE | NUMBER OF POST AND SIZE | NUMBER OF SIGNS |
|---|---|---|---|---|---|---|
| | FEDERAL | CALIFORNIA | | | | |
| A | W20-1 | C23 | 48" x 48" | ROAD WORK AHEAD | 1 - 6" x 6" | 8 |
| B | G20-2 | C14 | 48" x 24" | END ROAD WORK | 1 - 4" x 6" | 9 |
| C | G20-2 | C14 | 48" x 24" | END ROAD WORK | SEE NOTE 2 | 1 |
| D | G20-2 | C14 | 48" x 24" | END ROAD WORK | SEE NOTE 3 | 1 |
| E | W20-1 | C23 | 48" x 48" | ROAD WORK AHEAD | SEE NOTE 4 | 2 |
| F | W20-1 | C23 | 60" x 60" | ROAD WORK AHEAD | 2 - 6" x 6" | 3 |

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. INSTALL PANEL ON EXISTING OVERHEAD SIGN POST (BS-15) FEBT.
3. INSTALL PANEL ON EXISTING LIGHTING STANDARD (B318) FEBT.
4. INSTALL PANELS ON EXISTING OVERHEAD SIGN POSTS (BS-16) FWBT.

LEGEND

(X) CONSTRUCTION AREA SIGN LETTER

SIGN - SINGLE POST

SIGN - SSBM

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 2 | 9 |

Jeffrey Jewett 2-7-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JEFF JEWETT
No. 49233
Exp 9-30-12
CIVIL
STATE OF CALIFORNIA

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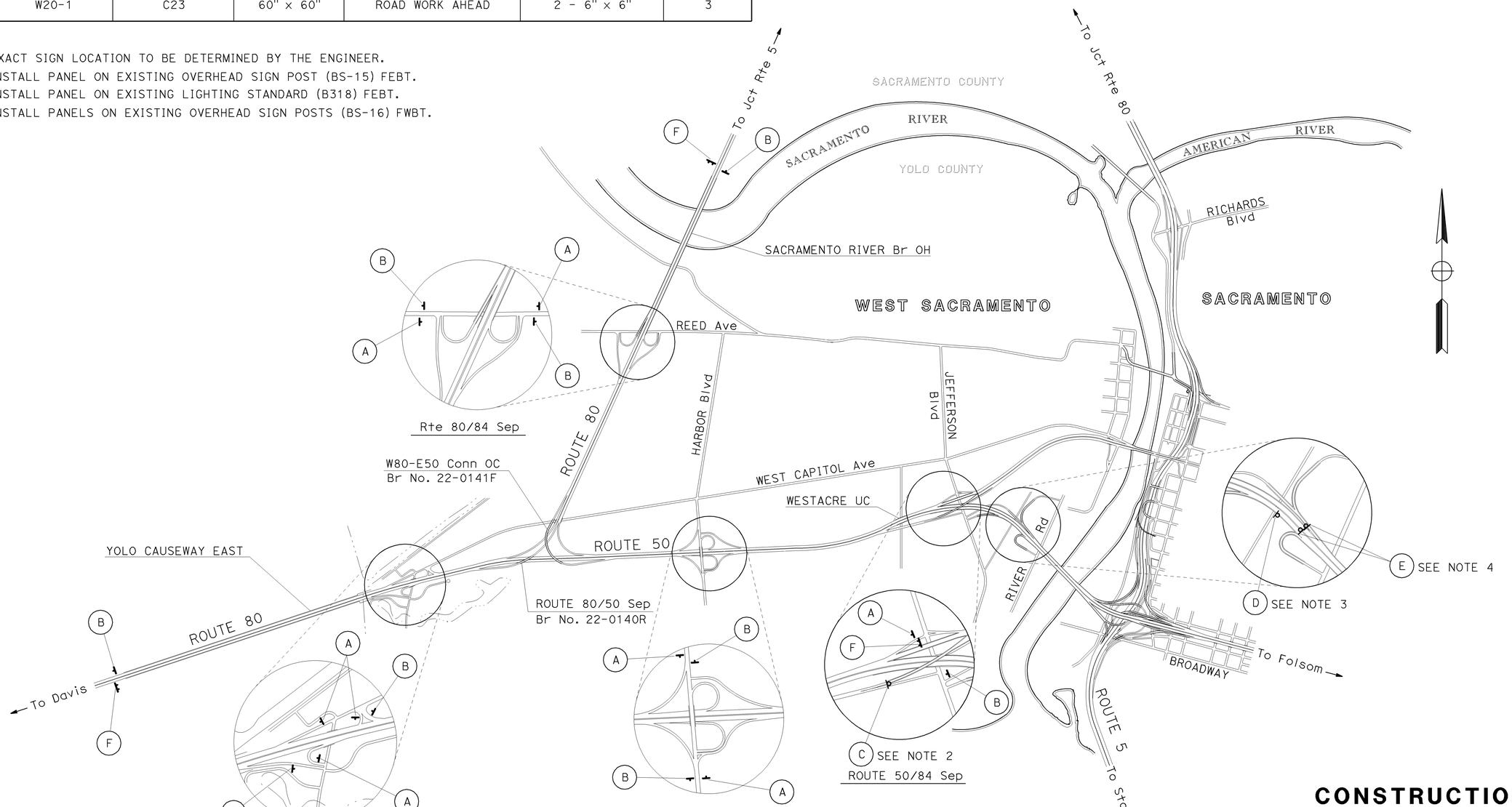



## CONSTRUCTION AREA SIGNS

NO SCALE

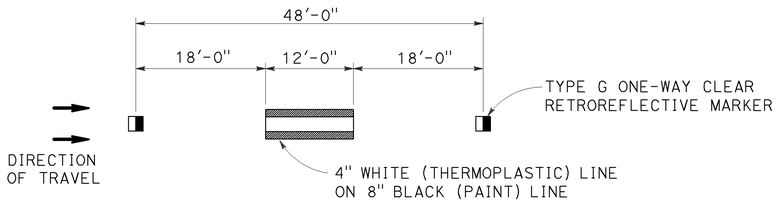
CS-1

*APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY*

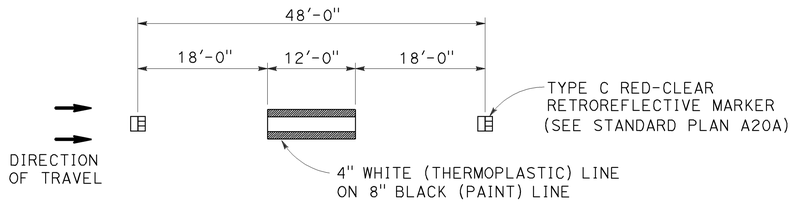
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
FUNCTIONAL SUPERVISOR: SERGIO ACEVES
CALCULATED-DESIGNED BY: RON SYKES
CHECKED BY: JOE SAAVEDRA
REVISED BY / DATE REVISED

LAST REVISION
DATE PLOTTED => 08-FEB-2012
TIME PLOTTED => 14:46

BORDER LAST REVISED 7/2/2010
USERNAME => s128589
DGN FILE => 03000205371da001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03000205371




DETAIL 12(Mod)
NO SCALE




DETAIL 14A(Mod)
NO SCALE

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 3 | 9 |

Jeffrey Jewett 2-7-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JEFF JEWETT
No. 49233
Exp 9-30-12
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.

## PAVEMENT DELINEATION QUANTITIES

| LOCATION | 4" THERMOPLASTIC TRAFFIC STRIPE | | | | 4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1) | 4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7) | 4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12) | | 8" THERMOPLASTIC TRAFFIC STRIPE | | | | | 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3) | PAINT TRAFFIC STRIPE (1 COAT) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DETAIL NUMBER | | | | DETAIL NUMBER | DETAIL NUMBER | DETAIL NUMBER | | DETAIL NUMBER | | | | | DETAIL NUMBER | DETAIL NUMBER | |
| | 22 | 25 | 25A | 27B | 40 | 9 | 12(Mod) | 14A(Mod) | 36 | 36A | 36B | 38 | 38B | 37 | 12(Mod) | 14A(Mod) |
| | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF | LF |
| EASTBOUND ROUTE 50 | | 13,522 | | 14,357 | | 300 | 36,309 | 1,872 | 2,146 | 835 | | | 659 | 3,879 | 36,309 | 1,872 |
| WESTBOUND ROUTE 50 | | 12,238 | | 12,764 | | 538 | 33,036 | 2,016 | 1,070 | 526 | 800 | | 874 | 3,719 | 33,036 | 2,016 |
| EASTBOUND ROUTE 80 | | 9,515 | 285 | 10,498 | | 164 | 24,564 | 727 | 2,210 | 698 | | | | 1,156 | 24,564 | 727 |
| WESTBOUND ROUTE 80 | | 10,731 | | 12,582 | | 1,197 | 23,869 | 432 | 1,664 | 1,221 | 630 | | 161 | 1,091 | 23,869 | 432 |
| EB Route 80 CONNECTOR TO EB ROUTE 80 | | | 2,852 | 2,852 | | | 2,852 | | | | | | | | | |
| WB ROUTE 50 CONNECTOR TO EB ROUTE 80 | | | 1,283 | 1,283 | | | 867 | | | | | | | | | |
| WB ROUTE 80 CONNECTOR TO EB ROUTE 50 | | | 2,993 | 2,993 | | | 2,795 | | | | | | | | | |
| WB ROUTE 80 CONNECTOR TO WB ROUTE 80 | | | 1,716 | 1,716 | | | 1,747 | | | | | | | | | |
| WB ROUTE 80 ENTRANCE RAMP FROM REED Ave (ROUTE 84) | 90 | | 1,012 | 1,060 | | 170 | | | | | | | 130 | | | |
| EB ROUTE 80 EXIT RAMP TO REED Ave (ROUTE 84) | 80 | | 1,110 | 1,160 | | | | | | | | | 120 | | | |
| EB ROUTE 80 ENTRANCE RAMP FROM REED Ave (ROUTE 84) | 80 | | 580 | 570 | | | | | | | | | 150 | | | |
| WB ROUTE 80 EXIT RAMP TO REED Ave (ROUTE 84) | 90 | | 790 | 790 | | | | | | | | | 130 | | | |
| EB ROUTE 50 EXIT RAMP TO NB HARBOR Blvd | | | 1,400 | 1,320 | | 200 | | | 170 | | | | | | | |
| EB ROUTE 50 EXIT RAMP TO SB HARBOR Blvd | | | 365 | 345 | | | | | | | | | | | | |
| WB ROUTE 50 ENTRANCE RAMP FROM SB HARBOR Blvd | | | 545 | 520 | 165 | | | | | | | 290 | | | | |
| WB ROUTE 50 ENTRANCE RAMP FROM NB HARBOR Blvd | | | 660 | 520 | 70 | | | | | | | 450 | | | | |
| EB ROUTE 50 ENTRANCE RAMP FROM HARBOR Blvd | | | 720 | 715 | 60 | 715 | | | | | | 810 | | | | |
| WB ROUTE 50 EXIT RAMP TO HARBOR Blvd | | | 990 | 1,000 | | 1,850 | | | | | | 765 | | | | |
| SUBTOTAL | 340 | 46,006 | 17,301 | 67,045 | 295 | 5,134 | 126,039 | 5,047 | 7,260 | 3,280 | 1,430 | 2,315 | 2,224 | 9,845 | 117,778 | 5,047 |
| TOTAL | 130,692 | | | | 295 | 5,134 | 131,086 | | 16,509 | | | | | 9,845 | 122,825 | |

## PAVEMENT DELINEATION QUANTITES

PDQ-1

REVISED BY | DATE REVISED
RON SYKES | JOE SAAVEDRA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | SERGIO ACEVES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | TRAFFIC
Caltrans

LAST REVISION | DATE PLOTTED => 08-FEB-2012
11-3-11 | TIME PLOTTED => 14:46

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 4 | 9 |

Jeffrey Jewett 2-7-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JEFF JEWETT
No. 49233
Exp 9-30-12
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. QUANTITY REFLECTS THE REMOVAL OF THE EXISTING DETAIL 12 AND DETAIL 14A ONLY.
2. LUMP SUM PAY ITEM. APPROXIMATE NUMBER OF MARKERS TO BE REMOVED SHOWN FOR INFORMATION ONLY.

## PAVEMENT DELINEATION QUANTITIES (CONTINUED)

| LOCATION | PAVEMENT MARKER (RETROREFLECTIVE) | | | | THERMOPLASTIC PAVEMENT MARKING | | | | | | | | | | | | REMOVE THERMOPLASTIC TRAFFIC STRIPE | REMOVE PAVEMENT MARKER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TYPE C | TYPE D | TYPE G | TYPE H | SIGNAL | AHEAD | TYPE 1(24') ARROW | TYPE II ARROW | TYPE III ARROW | TYPE V ARROW | TYPE VI ARROW | DIAMOND SYMBOL | CAR | POOL | LANE | LIMIT LINE | LANELINE (SEE NOTE 1) | (SEE NOTE 2) |
| | EA | EA | EA | EA | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | SQFT | LF | |
| EASTBOUND ROUTE 50 | 60 | | 1,204 | 284 | | | | | | | 126 | | | | | | 9,546 | |
| WESTBOUND ROUTE 50 | 80 | | 1,107 | 256 | | | | | | | 126 | | | | | | 8,763 | |
| EASTBOUND ROUTE 80 | 28 | | 714 | 212 | | | | | | | | | | | | | 6,323 | |
| WESTBOUND ROUTE 80 | 20 | | 756 | 225 | | | | | | | 336 | | | | | | 6,076 | |
| EB ROUTE 80 CONNECTOR TO EB ROUTE 80 | | | 60 | 120 | | | | | | | | | | | | | | |
| WB ROUTE 50 CONNECTOR TO EB ROUTE 80 | | | 19 | 55 | | | | | | | | | | | | | | |
| WB ROUTE 80 CONNECTOR TO EB ROUTE 50 | | | 60 | 126 | | | | | | | | | | | | | | |
| WB ROUTE 80 CONNECTOR TO WB ROUTE 80 | | | 38 | 73 | | | | | | | | | | | | | | |
| WB ROUTE 80 ENTRANCE RAMP FROM REED Ave (ROUTE 84) | | 6 | 19 | 44 | | | 62 | | | | | | | | | | | |
| EB ROUTE 80 EXIT RAMP TO REED Ave (ROUTE 84) | | 4 | 12 | 48 | 32 | 31 | | | 168 | 33 | | | | | | | | |
| EB ROUTE 80 ENTRANCE RAMP FROM REED Ave (ROUTE 84) | | 4 | 16 | 26 | | | 62 | | | | | | | | | | | 6,500 ± |
| WB ROUTE 80 EXIT RAMP TO REED Ave (ROUTE 84) | | 6 | 14 | 34 | 32 | 31 | | 90 | 84 | 33 | | | | | | | | |
| EB ROUTE 50 EXIT RAMP TO NB HARBOR Blvd | | | 15 | 59 | | | | | | 66 | | | | | | | | |
| EB ROUTE 50 EXIT RAMP TO SB HARBOR Blvd | | | | 16 | | | | | | 33 | | | | | | | | |
| WB ROUTE 50 ENTRANCE RAMP FROM SB HARBOR Blvd | | | 13 | 24 | | | | | | | | 22 | 17 | 23 | 24 | 12 | | |
| WB ROUTE 50 ENTRANCE RAMP FROM NB HARBOR Blvd | | | 20 | 29 | | | | | | | | 44 | 34 | 46 | 48 | 16 | | |
| EB ROUTE 50 ENTRANCE RAMP FROM HARBOR Blvd | | | 51 | 31 | | | 62 | | | | | 44 | 34 | 46 | 48 | 24 | | |
| WB ROUTE 50 EXIT RAMP TO HARBOR Blvd | | | 73 | 42 | 128 | 124 | | | 504 | 66 | | | | | | | | |
| SUBTOTAL | 188 | 20 | 4,191 | 1,704 | 192 | 186 | 186 | 90 | 756 | 231 | 588 | 110 | 85 | 115 | 120 | 52 | 30,708 | |
| TOTAL | 6,103 | | | | 2,711 | | | | | | | | | | | | 30,708 | |

## PAVEMENT DELINEATION QUANTITES

PDQ-2

RON SYKES — REVISED BY
JOE SAAVEDRA — DATE REVISED
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
SERGIO ACEVES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

LAST REVISION 11-3-11
DATE PLOTTED => 08-FEB-2012
TIME PLOTTED => 14:46

BORDER LAST REVISED 7/2/2010
USERNAME => s128589
DGN FILE => 0300020537nc002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0390
PROJECT NUMBER & PHASE 03000205371

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 5 | 9 |

Donald E. Howe
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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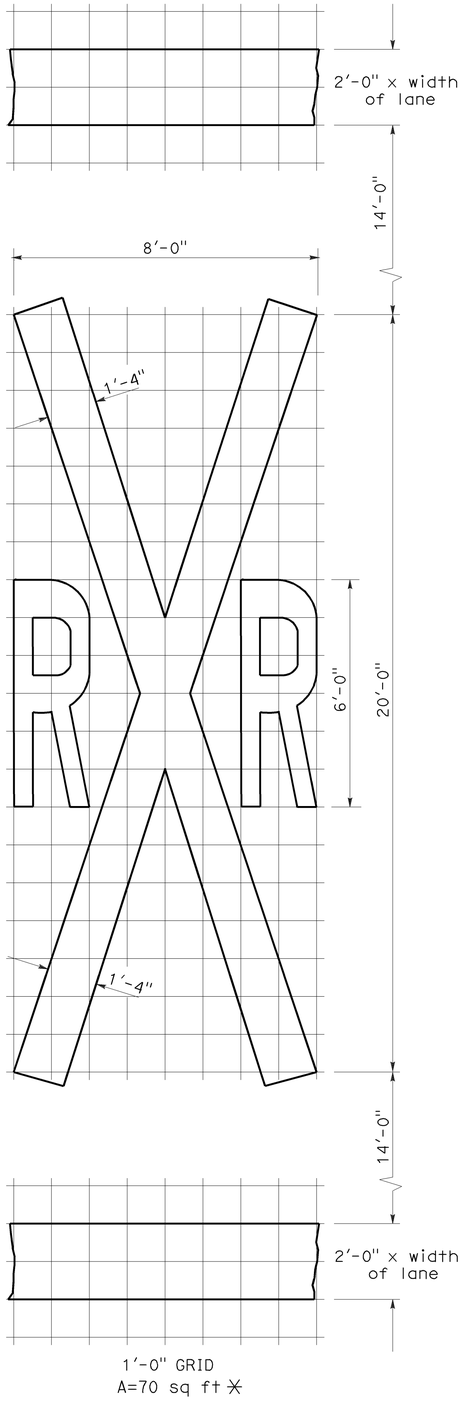
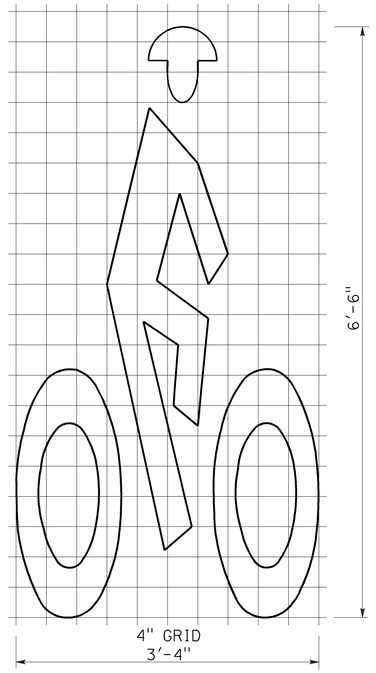
*To accompany plans dated* 2/6/12

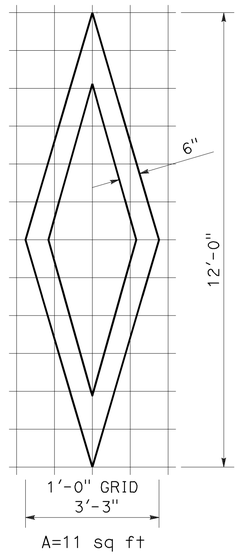



## RAILROAD CROSSING SYMBOL

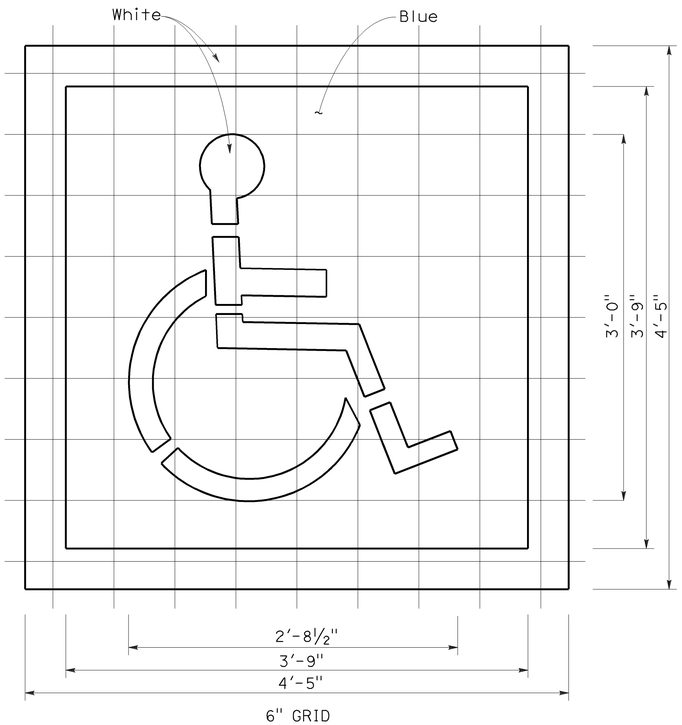
✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.




## BIKE LANE SYMBOL

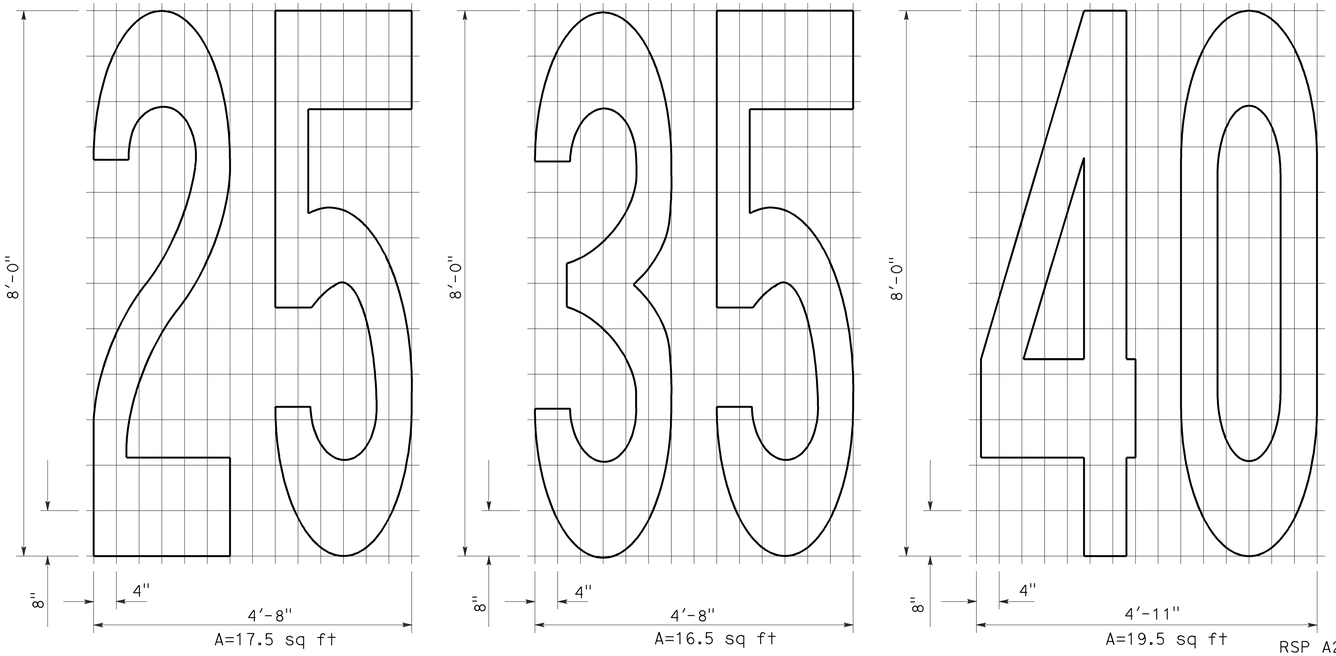



## DIAMOND SYMBOL

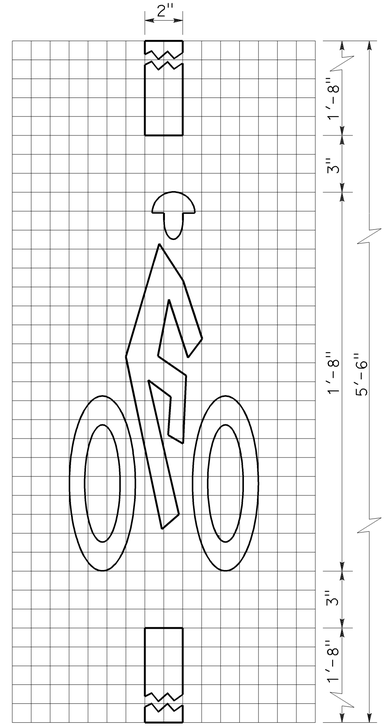



6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft

## INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING




## NUMERALS




## BICYCLE LOOP DETECTOR SYMBOL

NOTE:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

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

**REVISED STANDARD PLAN RSP A24C**

**2006 REVISED STANDARD PLAN RSP A24C**

5-27-08

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 6 | 9 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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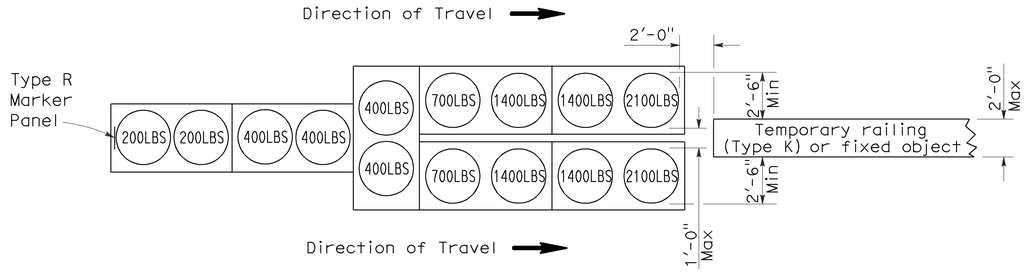
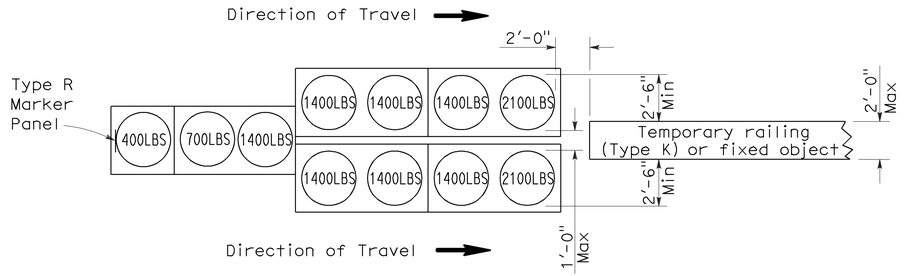
*To accompany plans dated* 2/6/12



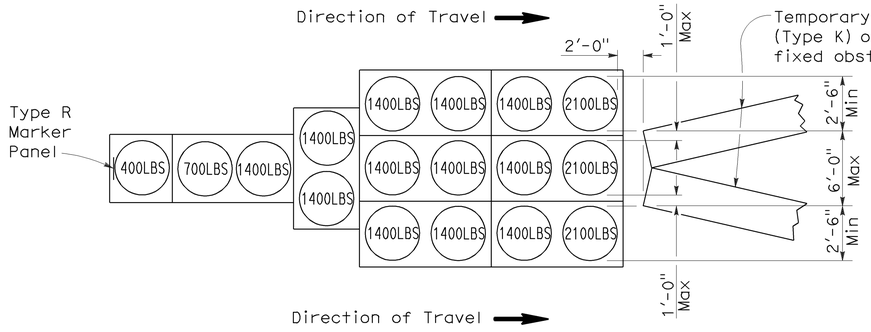

## ARRAY 'TU14'

Approach speed 45 mph or more



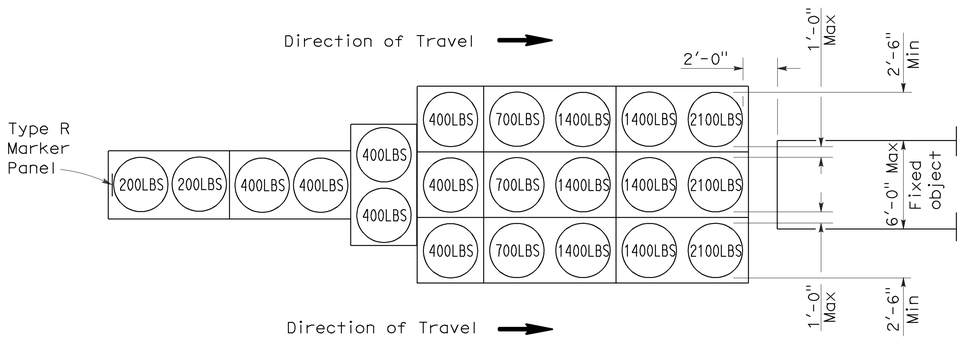

## ARRAY 'TU11'

Approach speed less than 45 mph



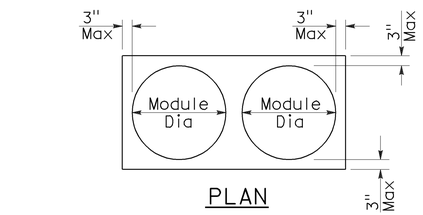

## ARRAY 'TU17'

Approach speed less than 45 mph

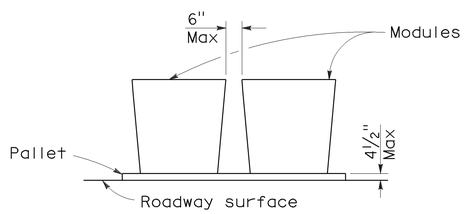



## ARRAY 'TU21'

Approach speed 45 mph or more




PLAN




ELEVATION

## CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

**REVISED STANDARD PLAN RSP T1A**

**2006 REVISED STANDARD PLAN RSP T1A**

5-15-08

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 7 | 9 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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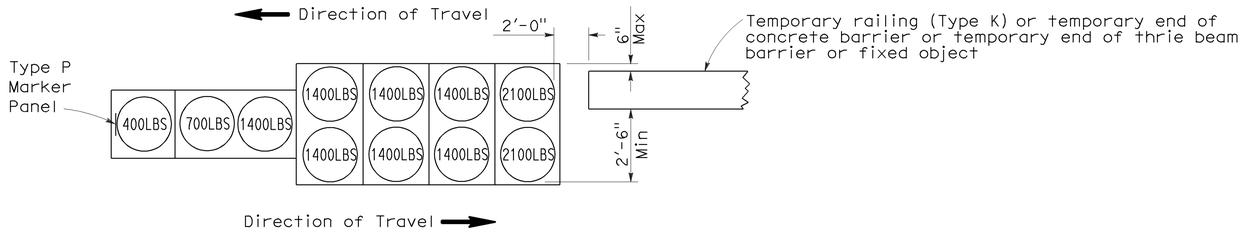
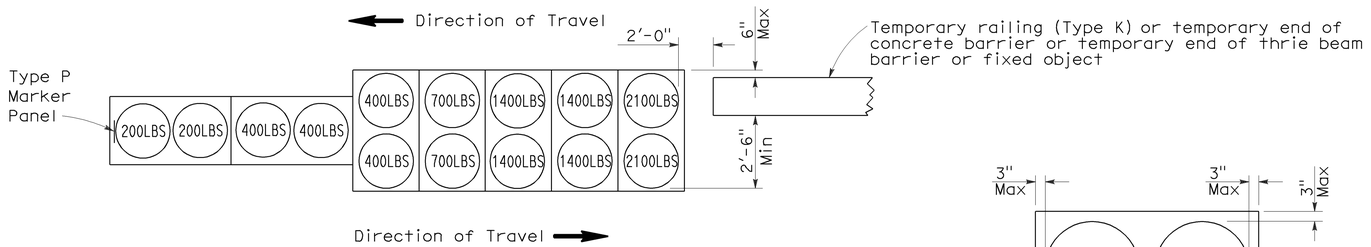
*To accompany plans dated* 2/6/12



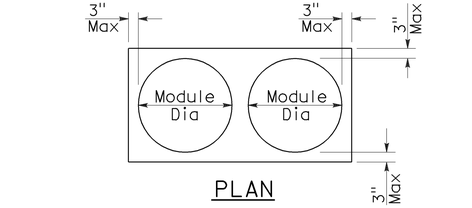

## ARRAY 'TB11'

Approach speed less than 45 mph

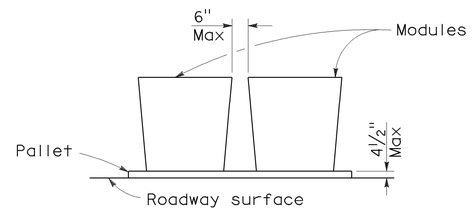



## ARRAY 'TB14'

Approach speed 45 mph or more




PLAN




ELEVATION

## CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

**2006 REVISED STANDARD PLAN RSP T1B**

5-15-08

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 8 | 9 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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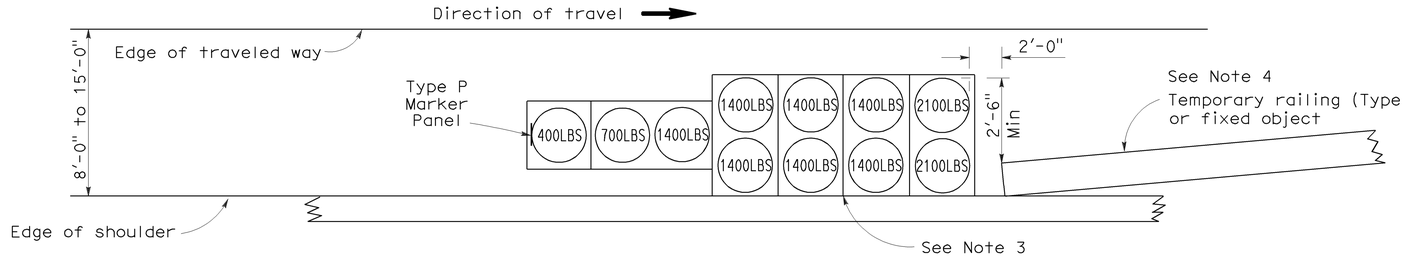
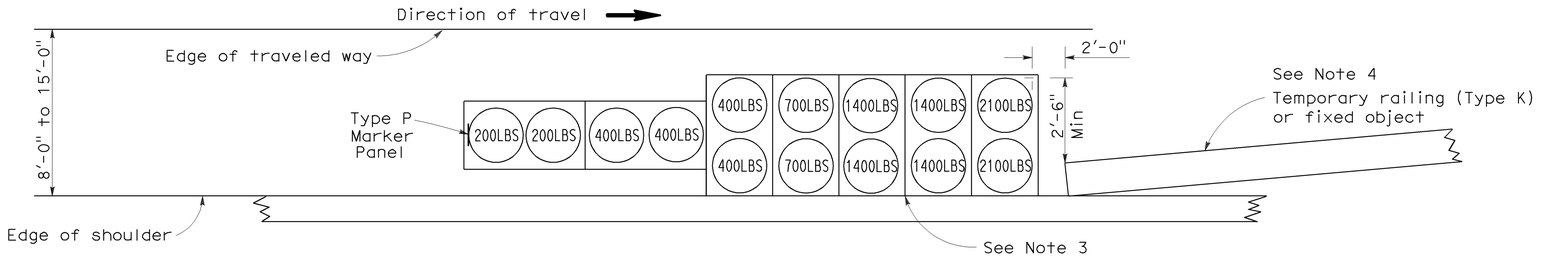
*To accompany plans dated* 2/6/12



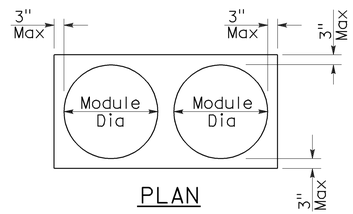

## ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

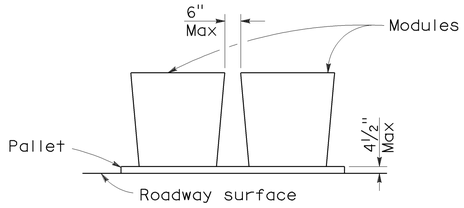



## ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9




PLAN




ELEVATION

## CRASH CUSHION PALLET DETAIL

See Note 11

## NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

**REVISED STANDARD PLAN RSP T2**

**2006 REVISED STANDARD PLAN RSP T2**

5-15-08

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 03 | Yol | 50,80 | 0.0/2.6<br>8.9/R11.3 | 9 | 9 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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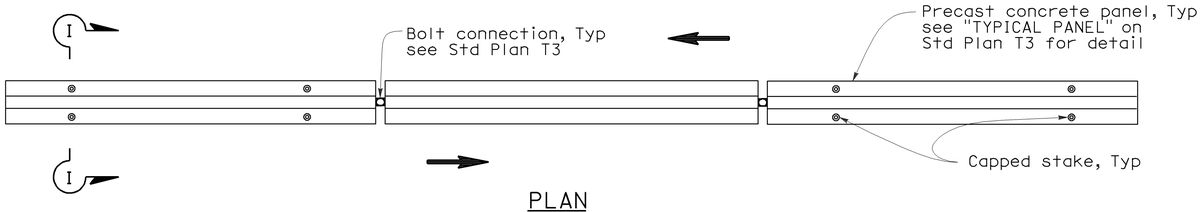
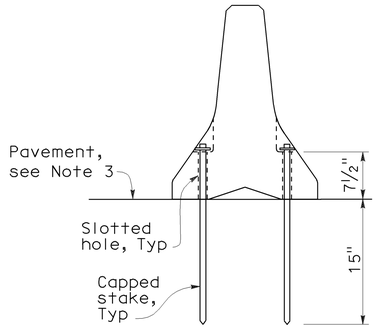
*To accompany plans dated* 2/6/12




PLAN

## RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

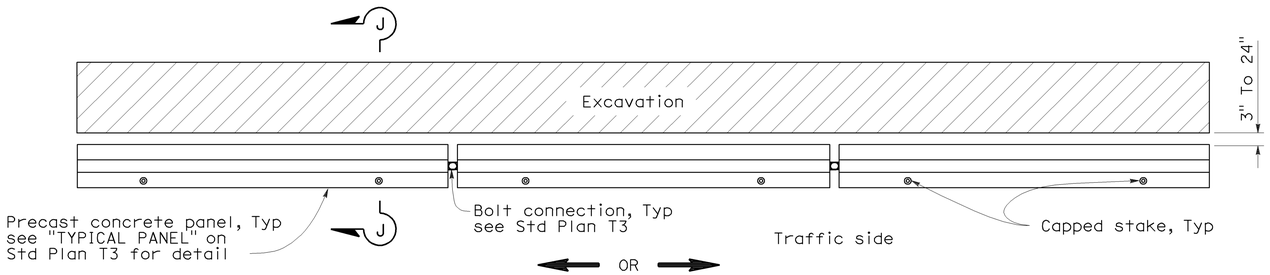
See Note 1




SECTION I-I

NOTES:

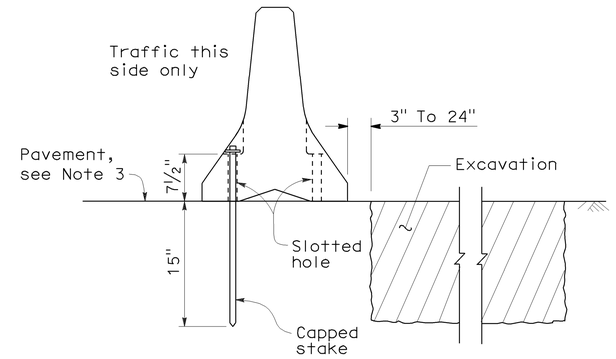
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by ⟹.



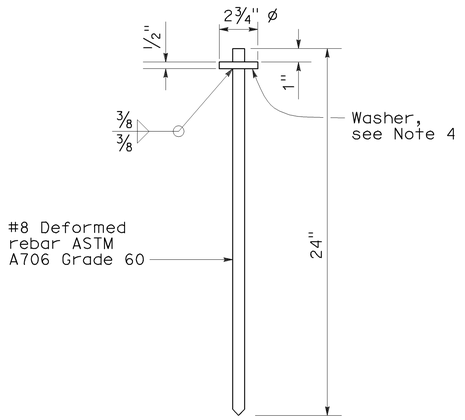

PLAN

## RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2




SECTION J-J




CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# TEMPORARY RAILING (TYPE K)

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP T3A**

**2006 NEW STANDARD PLAN NSP T3A**

8-31-10