| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 1 | 10 |

INDEX OF 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

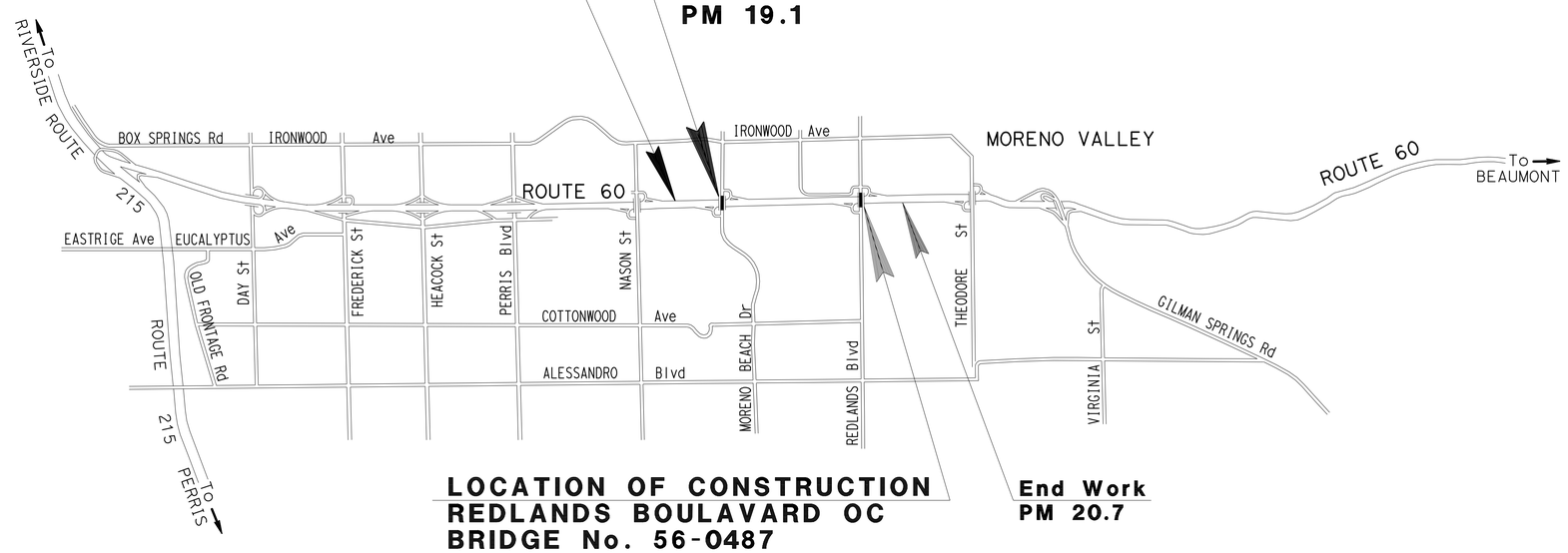
# STATE HIGHWAY

## IN RIVERSIDE COUNTY
## IN MORENO VALLEY
## AT MORENO BEACH DRIVE OVERCROSSING
## AND AT REDLANDS BOULEVARD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006


**Begin Work**
**PM 18.8**

**LOCATION OF CONSTRUCTION**
**MORENO BEACH DRIVE OC**
**BRIDGE No. 56-0486**
**PM 19.1**




**LOCATION OF CONSTRUCTION**
**REDLANDS BOULAVARD OC**
**BRIDGE No. 56-0487**
**PM 20.4**

**End Work**
**PM 20.7**

NO SCALE

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

Henry Lee 11-23-09
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
HENRY LEE
No. C 69931
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

January 19, 2010
PLANS APPROVAL DATE

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

PROJECT MANAGER: CATALINO PINING
DESIGN ENGINEER: HENRY LEE

LAST REVISION 11-23-09
DATE PLOTTED => 21-JAN-2010
TIME PLOTTED => 14:32

CONTRACT No. **08-0L2104**

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 2 | 10 |

W E Wasser 11-23-09
REGISTERED CIVIL ENGINEER DATE

1-19-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
W.E. WASSER
No. 37378
Exp 6-30-10
CIVIL
STATE OF CALIFORNIA

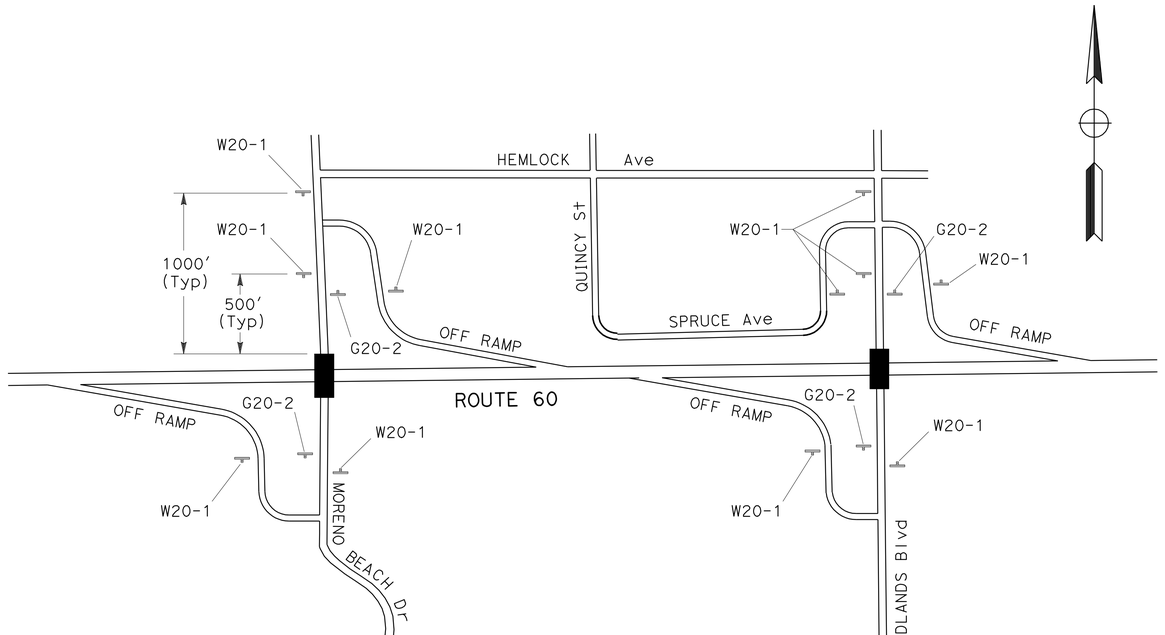
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. THE LOCATION OF CONSTRUCTION AREA SIGNS ON THE PLAN IS APPROXIMATE. THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER.

LEGEND

WORK AREA




## PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) *

| (EA) |
|---|
| 2 |

* LOCATIONS DETERMINED BY THE ENGINEER.

## STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN CODE | PANEL SIZE (In X In) | SIGN MESSAGE | No. OF POST(S) AND SIZE (In X In) | No. OF SIGNS (EA) |
|---|---|---|---|---|
| W20-1 | 36 X 36 | ROAD WORK AHEAD | 1 - 4 X 4 | 11 |
| G20-2 | 42 X 18 | END ROAD WORK | 1 - 4 X 4 | 4 |
| TOTAL | | | | 15 |

# CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CALCULATED-DESIGNED BY: MOKHTARI
CHECKED BY: W. E. WASSER
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR: W. E. WASSER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC DESIGN

LAST REVISION 11-23-09
DATE PLOTTED => 21-JAN-2010
TIME PLOTTED => 14:32

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => 80L2101a001.dgn
CU 08380
EA 0L2101

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 3 | 10 |

W E Wasser 11-23-09
REGISTERED CIVIL ENGINEER DATE

1-19-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
W.E. WASSER
No. 37378
Exp 6-30-10
CIVIL
STATE OF CALIFORNIA

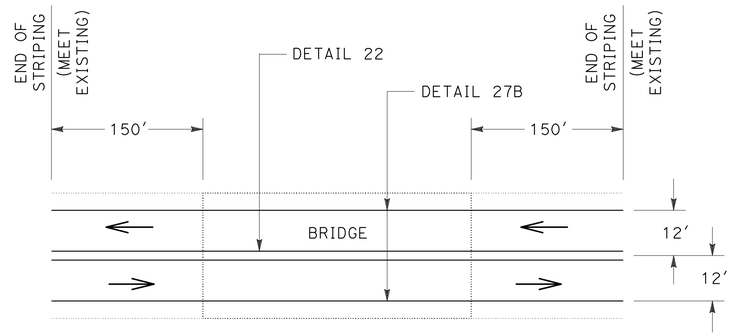
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. MEET EXISTING STRIPING AT LOCATIONS WHERE STRIPING CURRENTLY EXISTS.

LEGEND

→ DIRECTION OF TRAFFIC




## LIMIT OF TRAFFIC STRIPE DETAIL

## PAVEMENT DELINEATION QUANTITIES

| DETAIL No. | REMOVE PAVEMENT MARKERS | PAVEMENT MARKERS | | |
|---|---|---|---|---|
| | | RETRO-REFLECTIVE | THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) | |
| | | TYPE D | WHITE | YELLOW |
| | (EA) | LF | LF | |
| 22 | 100 | 100 | — | 2150 |
| 27B | — | — | 2150 | — |
| TOTAL | 100 | 100 | 4300 | |

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

## PAVEMENT DELINEATION AND QUANTITIES

NO SCALE

PD-1

LAST REVISION 11-23-09
DATE PLOTTED => 21-JAN-2010
TIME PLOTTED => 14:32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: W. E. WASSER
CALCULATED-DESIGNED BY: MOKHTARI
CHECKED BY: W. E. WASSER
REVISED BY
DATE REVISED

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trrichf
DGN FILE => 80L210nc001.dgn

CU 08380

EA 0L2101

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 4 | 10 |

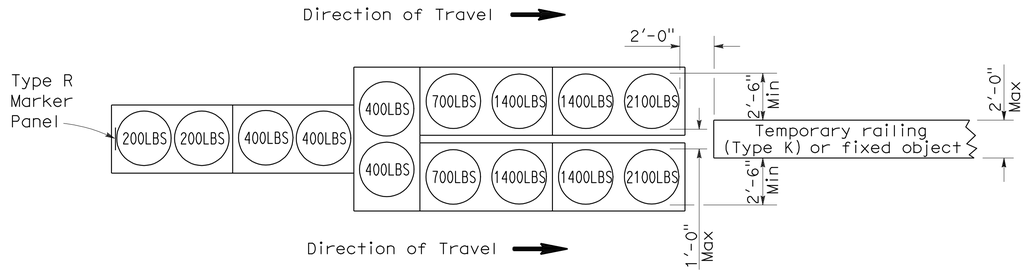
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

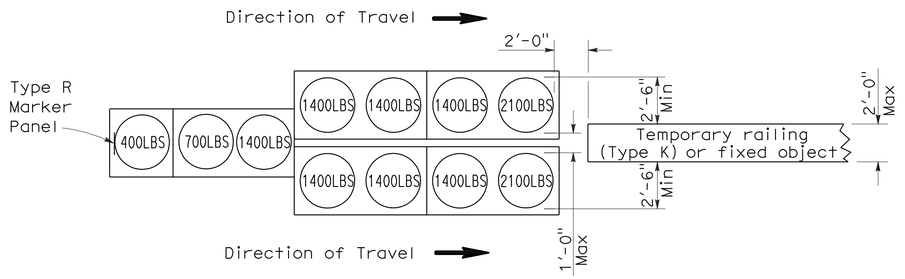
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

*To accompany plans dated* 1-19-10




## ARRAY 'TU14'

Approach speed 45 mph or more



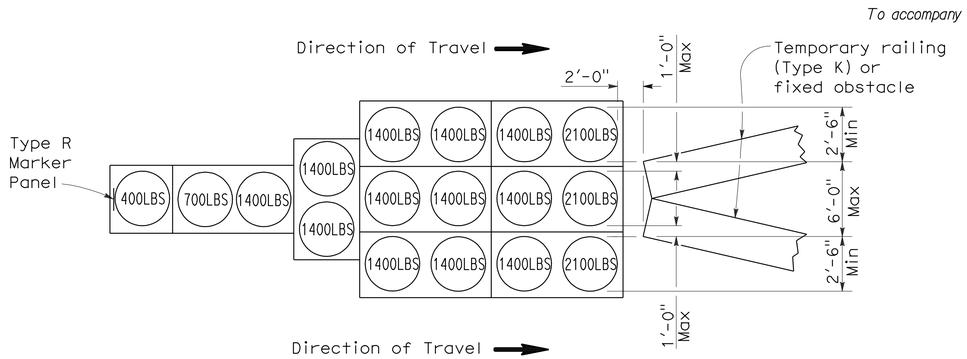

## ARRAY 'TU11'

Approach speed less than 45 mph



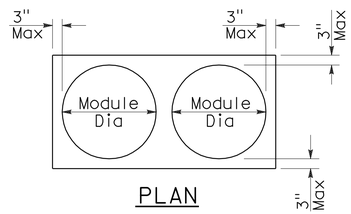

## ARRAY 'TU21'

Approach speed 45 mph or more

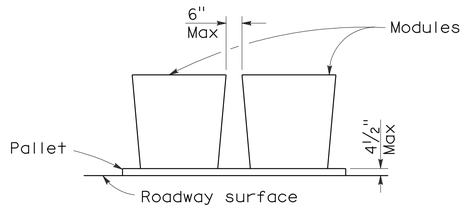



## ARRAY 'TU17'

Approach speed less than 45 mph




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 |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 5 | 10 |

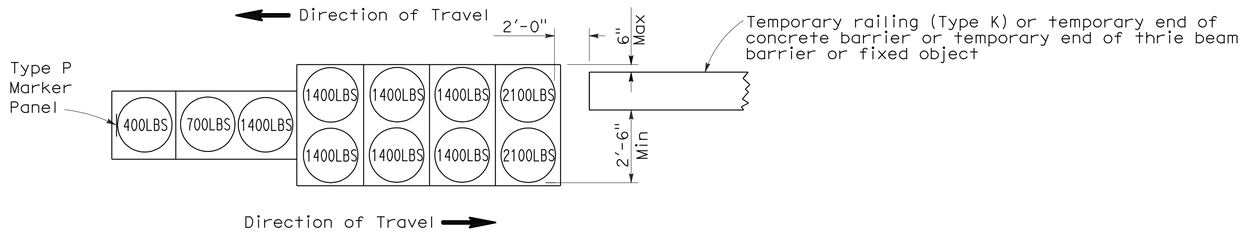
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

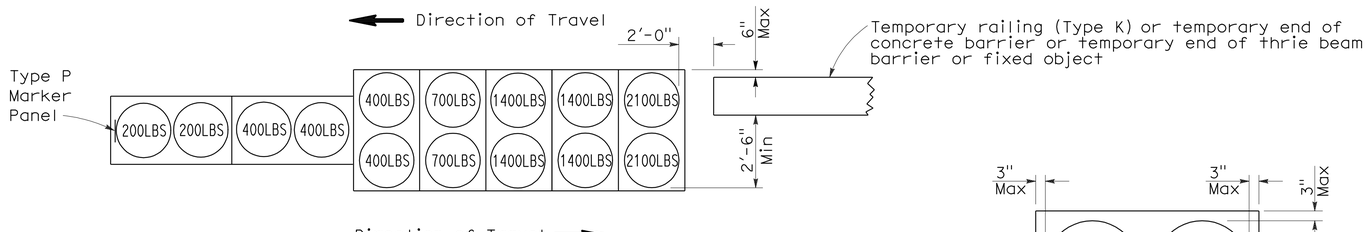
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

*To accompany plans dated* 1-19-10



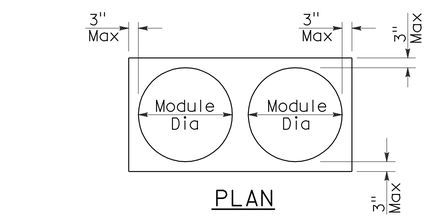

## ARRAY 'TB11'

Approach speed less than 45 mph




## ARRAY 'TB14'

Approach speed 45 mph or more




## CRASH CUSHION PALLET DETAIL

See Note 7

## NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

# TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 6 | 10 |

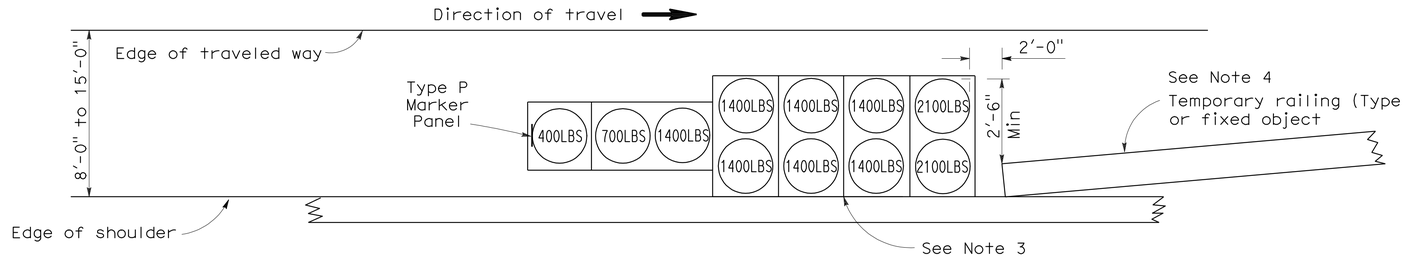
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

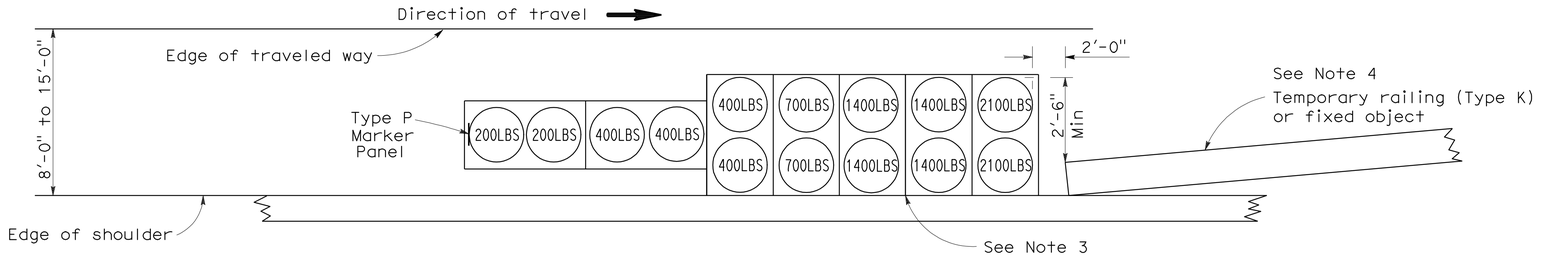
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

*To accompany plans dated* 1-19-10



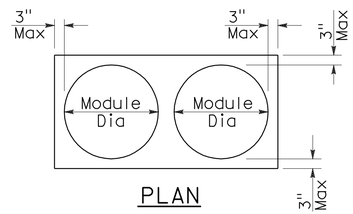

## ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

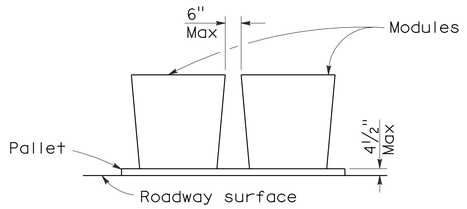



## ARRAY 'TS14'

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 |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 7 | 10 |

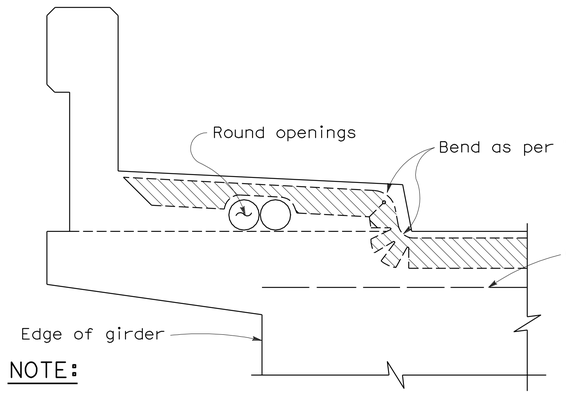
REGISTERED CIVIL ENGINEER

Efthymios Delis
No. C51434
Exp. 6-30-08
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

October 5, 2007
PLANS APPROVAL DATE

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

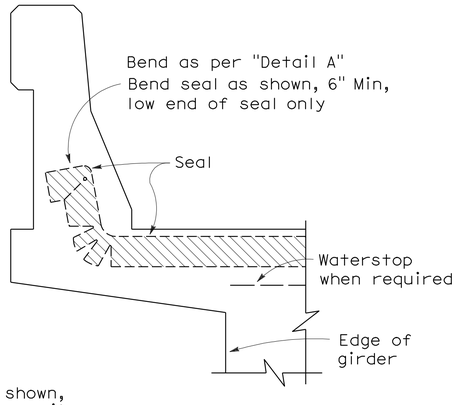
*To accompany plans dated* 1-19-10



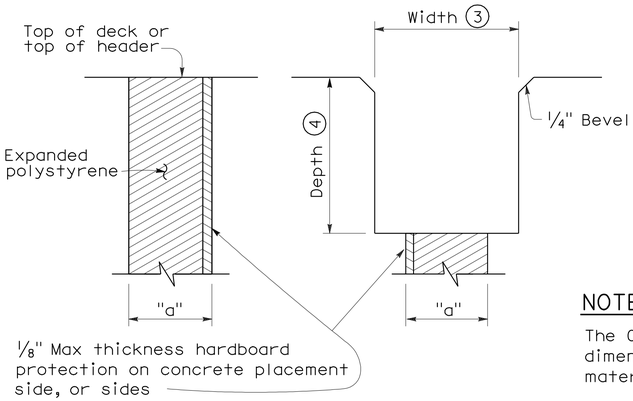

NOTE:

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

CONCRETE BARRIER AND SIDEWALK




CONCRETE BARRIER



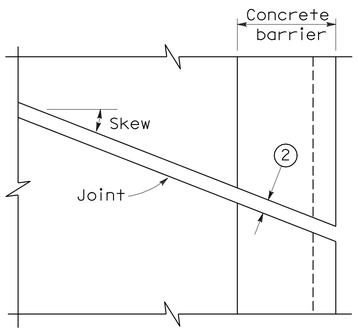

FORMING DETAIL

SAWCUT DETAIL

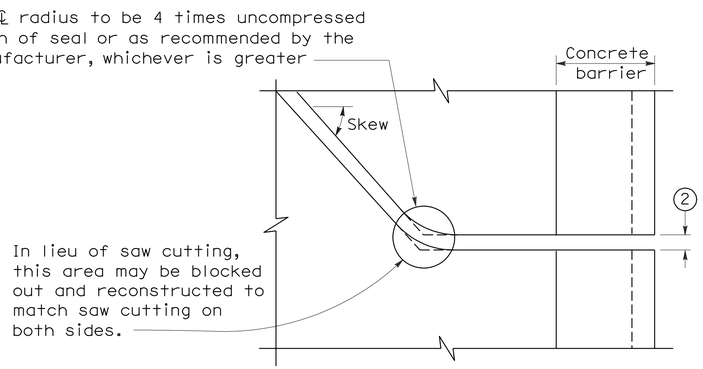
NOTE:

The Contractor shall verify all controlling field dimensions before ordering or fabricatiing any material.

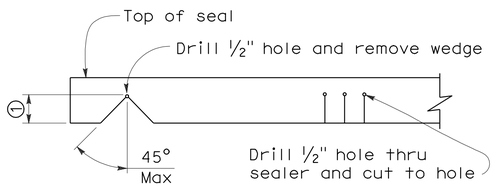
# JOINT SEALS DETAILS

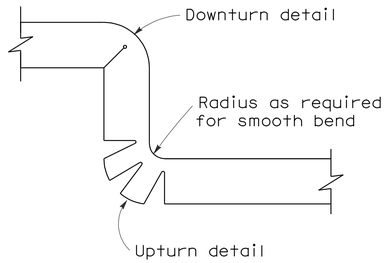



PLAN OF JOINT (SKEW ≤ 20°)




PLAN OF JOINT (SKEW > 20°)



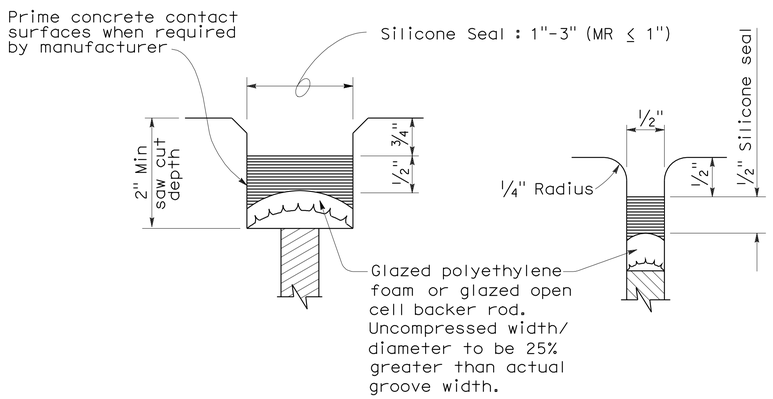

DETAIL A

NOTES:

1. Make smooth cuts from the bottom of seal to 1½" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
2. Opening in barrier to match width of sawn deck joint.
3. Sawcut groove widths shall be as ordered by the Engineer.
4. Depth of sawcut: Type A - Depth to be 2" minimum.
   Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position ($W_2$) plus dimensions shown.
5. MR (movement rating) as shown on other plan sheets.
6. Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

| Movement Rating (MR) (5) | Bridge Type | "a" Dimension Deck Concrete Placed | | |
|---|---|---|---|---|
| | | Winter | Fall-Spring | Summer |
| 2" | All except CIP/PS | 1½" | 1¼" | ¾" |
| | CIP/PS | 1¼" | 1" | ½" |
| 1½" | All except CIP/PS | 1¼" | 1" | ½" |
| | CIP/PS | 1" | ¾" | ½" |
| 1" | All except CIP/PS | 1" | ¾" | ½" |
| | CIP/PS | ¾" | ½" | ½" |
| ½" | All except CIP/PS | ¾" | ¾" | ½" |
| | CIP/PS | ½" | ½" | ½" |

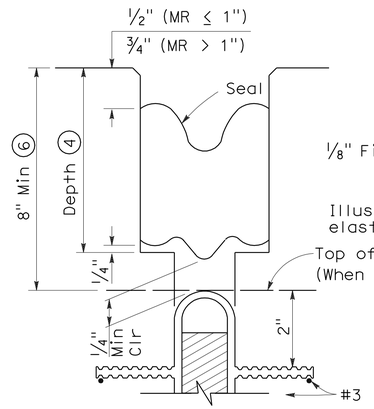



TYPE A SEAL

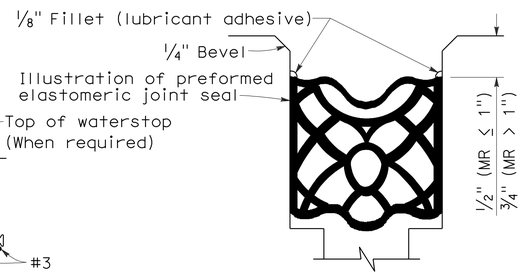
Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only




TYPE B JOINT SEAL
IN MINIMUM WIDTH POSITION ($W_2$)




TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")**

NO SCALE

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

**REVISED STANDARD PLAN RSP B6-21**

**2006 REVISED STANDARD PLAN RSP B6-21**

5-8-07

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 8 | 10 |

Edward Li 10/06/09
REGISTERED CIVIL ENGINEER DATE

1-19-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD GUOJUN LI — No. C56706 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

# INDEX TO PLANS



# STANDARD PLANS DATED MAY 2006

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

STANDARD PLAN SHEET NO.

DETAIL NO.

# LEGEND:

Indicates existing.

Indicates direction of traffic.

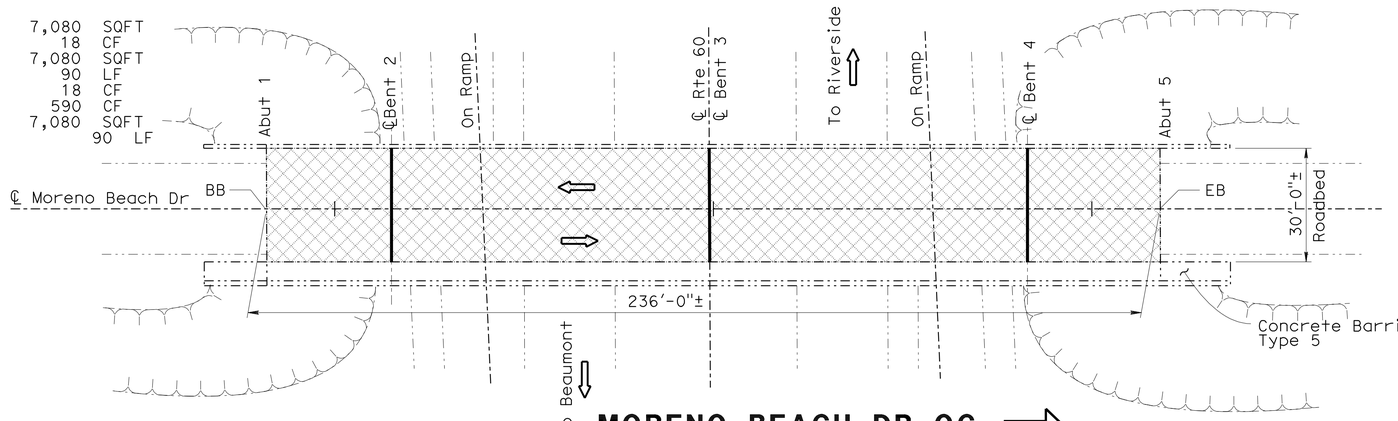
Indicates location of existing joint seal removal and placement of new joint seal.

Indicates limits of removal of existing 1"± thick asphalt concrete overlay.

Indicates limits of prepare concrete bridge deck surface, furnish and place new 1" depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on the "DECK OVERLAY DETAIL".

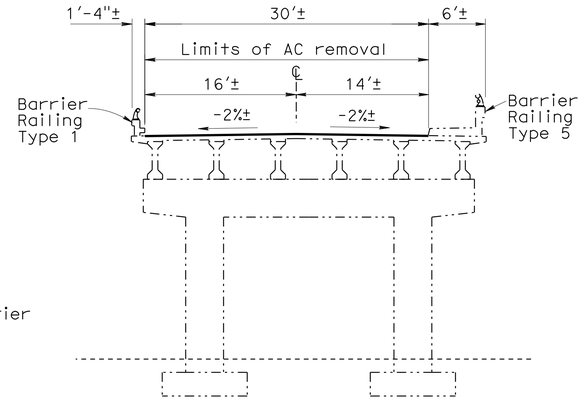
MORENO BEACH DR OC — BR. NO. 56-0486

| QUANTITIES | | |
|---|---|---|
| REMOVE ASPHALT CONCRETE SURFACING | 7,080 | SQFT |
| REMOVE UNSOUND CONCRETE | 18 | CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 7,080 | SQFT |
| CLEAN EXPANSION JOINT | 90 | LF |
| RAPID SETTING CONCRETE (PATCH) | 18 | CF |
| FURNISH POLYESTER CONCRETE OVERLAY | 590 | CF |
| PLACE POLYESTER CONCRETE OVERLAY | 7,080 | SQFT |
| JOINT SEAL (MR 1/2 ") | 90 | LF |




## MORENO BEACH DR OC

Br No. 56-0486, Rte 60, PM 19.12
1" = 20'

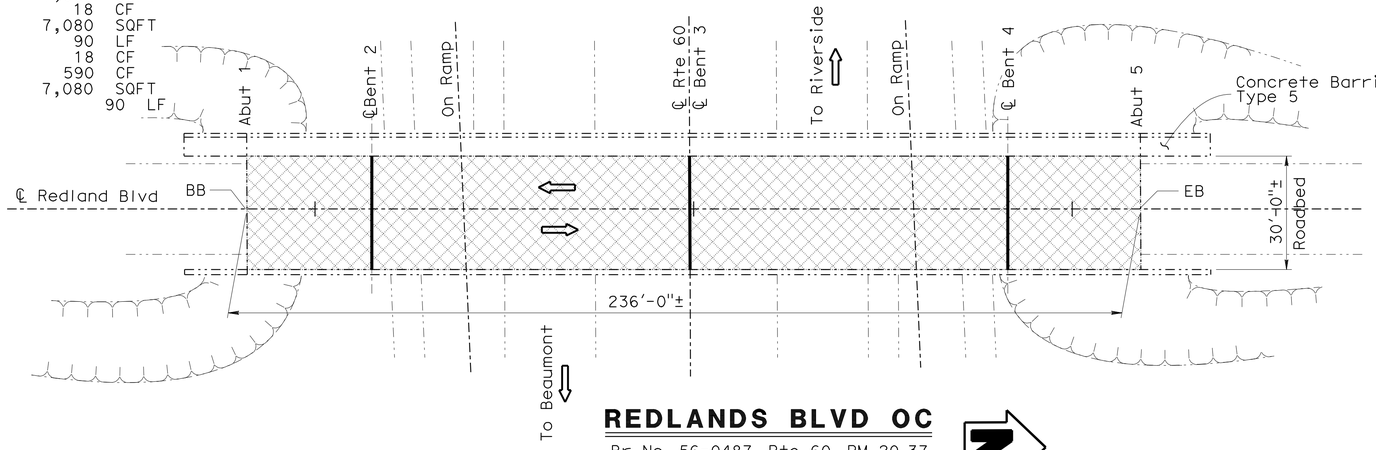



## TYPICAL SECTION

1/8" = 1'

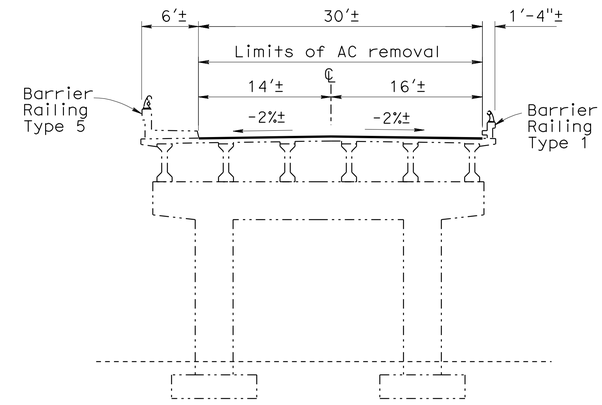
REDLANDS BLVD OC — BR. NO. 56-0487

| QUANTITIES | | |
|---|---|---|
| REMOVE ASPHALT CONCRETE SURFACING | 7,080 | SQFT |
| REMOVE UNSOUND CONCRETE | 18 | CF |
| PREPARE CONCRETE BRIDGE DECK SURFACE | 7,080 | SQFT |
| CLEAN EXPANSION JOINT | 90 | LF |
| RAPID SETTING CONCRETE (PATCH) | 18 | CF |
| FURNISH POLYESTER CONCRETE OVERLAY | 590 | CF |
| PLACE POLYESTER CONCRETE OVERLAY | 7,080 | SQFT |
| JOINT SEAL (MR 1/2 ") | 90 | LF |




## REDLANDS BLVD OC

Br No. 56-0487, Rte 60, PM 20.37
1" = 20'




## TYPICAL SECTION

1/8" = 1'

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

TONY D. BRAKE
DESIGN ENGINEER

| | BY | CHECKED | LOAD FACTOR DESIGN | LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD | |
|---|---|---|---|---|---|
| DESIGN | Edward Li | Gerald Joo | | | |
| DETAILS | Tom Dang | Edward Li | LAYOUT | Tom Dang | Edward Li |
| QUANTITIES | Edward Li | Gerald Joo | SPECIFICATIONS | X | PLANS AND SPECS COMPARED X |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 08
EA 0L2101

BRIDGE NO. Various
POST MILE Varies

# ROUTE 60 BRIDGES
## GENERAL PLAN

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-15-09 | 7-06-09 | 9-11-09

SHEET 01 OF 03

FILE => 08-012101-a-gp.dgn

USERNAME => ttrrichf DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 14:33

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 9 | 10 |

Edward Li 10/06/09
REGISTERED CIVIL ENGINEER DATE

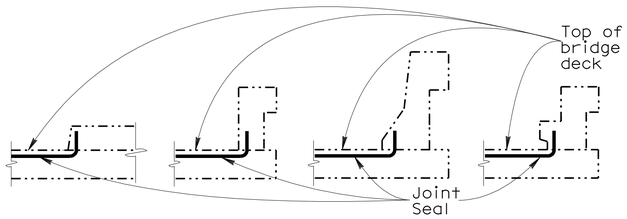
1-19-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD GUOJUN LI — No. C56706 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

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

## JOINT SEAL TABLE

| BRIDGE NAME | BRIDGE NUMBER | LOCATION | MINIMUM "MR" (INCHES) | APPROX LENGTH (FT) | EXISTING WATERSTOP | APPROX DEPTH TO CLEAN EXP JOINT (INCHES) | APPROX DEPTH OF JOINT SPALLS (INCHES) | APPROX WIDTH OF JOINT SPALLS (INCHES) | APPROX LENGTH OF JOINT SPALLS (FEET) |
|---|---|---|---|---|---|---|---|---|---|
| MORENO BEACH DR OC | 56-0486 | Bent 2 | ½ | 30 | YES | 6 | 3 | 6 | 5 |
| | | Bent 3 | ½ | 30 | YES | 6 | 3 | 6 | 5 |
| | | Bent 4 | ½ | 30 | YES | 6 | 3 | 6 | 5 |
| REDLANDS BLVD OC | 56-0487 | Bent 2 | ½ | 30 | YES | 6 | 3 | 6 | 5 |
| | | Bent 3 | ½ | 30 | YES | 6 | 3 | 6 | 5 |
| | | Bent 4 | ½ | 30 | YES | 6 | 3 | 6 | 5 |

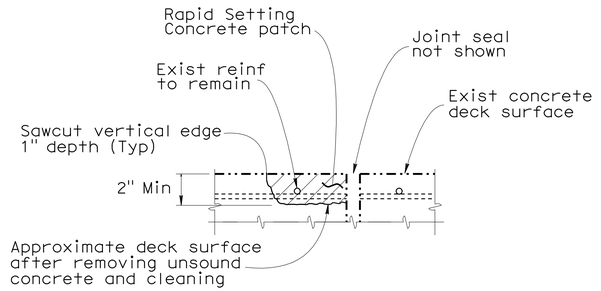



BARRIER RAIL

## JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.




## JOINT SPALL REPAIR DETAIL

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

## NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = ½") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

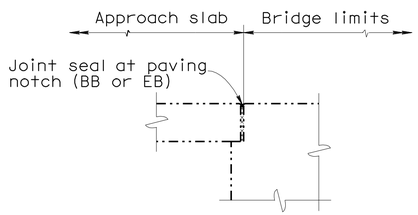
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.

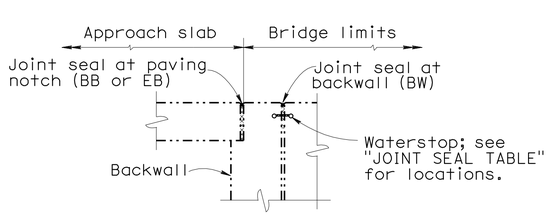
3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

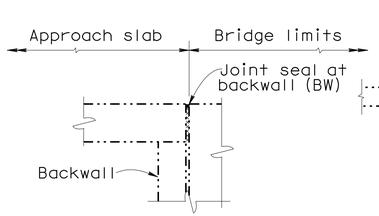
For details not shown see RSP B6-21 sheet.



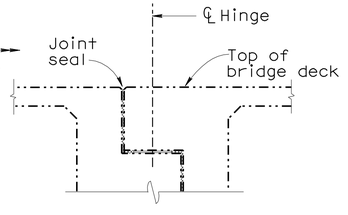

DIAPHRAGM ABUTMENT



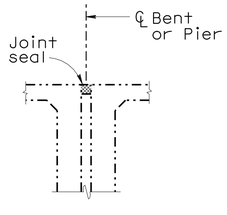

ABUTMENT WITH BACKWALL AND PAVING NOTCH




ABUTMENT WITH BACKWALL




HINGE




BENT OR PIER

## JOINT SEAL LOCATION

NO SCALE

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

| | | | |
|---|---|---|---|
| DESIGN | BY Edward Li | CHECKED Gerald Joo | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION |
| DETAILS | BY Tom Dang | CHECKED Edward Li | |
| QUANTITIES | BY Edward Li | CHECKED Gerald Joo | |

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 08
EA 0L2101

BRIDGE NO. Various
POST MILE Varies

# ROUTE 60 BRIDGES
## MISCELLANEOUS DETAILS NO. 1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 2-26-09 | 7-06-09 | 9-11-09

SHEET 02 OF 03

FILE => 08-012101-b-miscdet01.dgn

USERNAME => trr1chf DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 14:34

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 08 | Riv | 60 | 19.1,20.4 | 10 | 10 |

Edward Li 10/06/09
REGISTERED CIVIL ENGINEER DATE

1-19-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — EDWARD GUOJUN LI — No. C56706 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

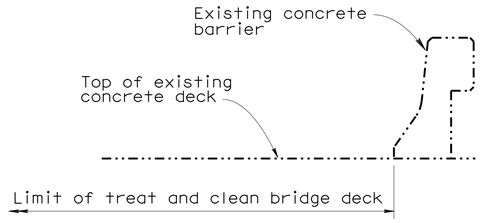
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

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

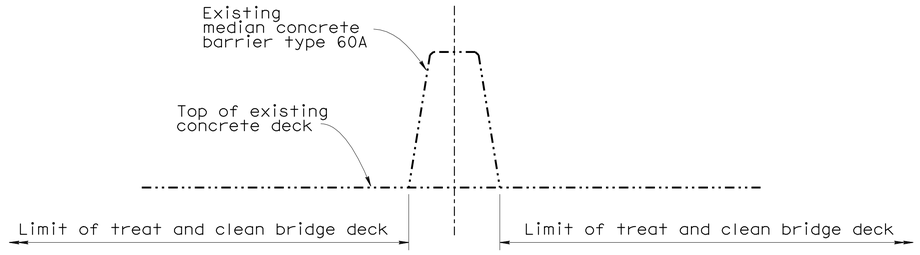
| BRIDGE NAME | BRIDGE NUMBER | APPROXIMATE AREA DAMAGED (%) | APPROXIMATE DEPTH (INCHES) |
|---|---|---|---|
| MORENO BEACH DR OC | 56-0486 | 1 | 3 |
| REDLANDS BLVD | 56-0487 | 1 | 3 |

DECK REPAIR NOTES:

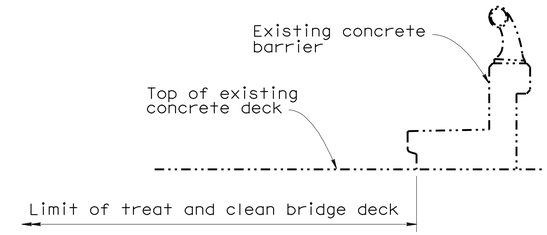
1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidently cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface,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



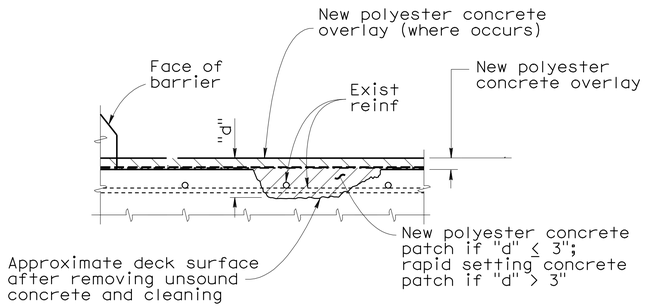

EOD BARRIER




MEDIAN BARRIER

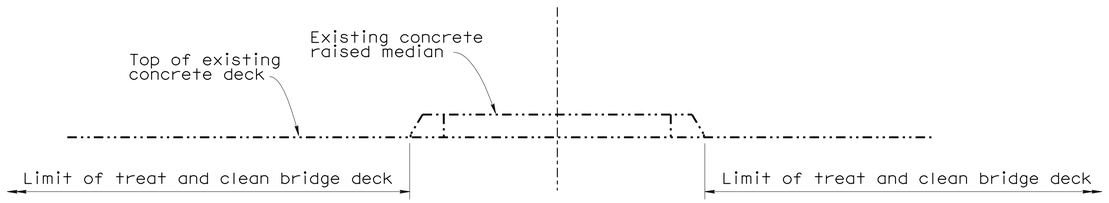



SIDEWALK BARRIER TYPE 2

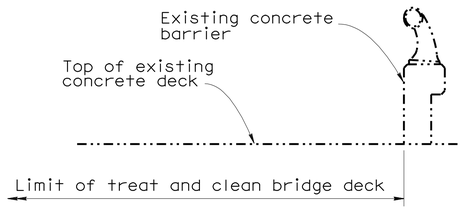



**DECK OVERLAY DETAIL**

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




RAISED MEDIAN




SIDEWALK BARRIER TYPE 1

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

**TYPICAL LIMITS OF DECK WORK**

NO SCALE

| | | | |
|---|---|---|---|
| DESIGN | BY Edward Li | CHECKED Gerald Joo | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION |
| DETAILS | BY Tom Dang | CHECKED Edward Li | |
| QUANTITIES | BY Edward Li | CHECKED Gerald Joo | |

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 08
EA 0L2101

BRIDGE NO. Various
POST MILE Varies

# ROUTE 60 BRIDGES
## MISCELLANEOUS DETAILS NO. 2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

| REVISION DATES | | | | | | | | | | SHEET | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9-11-09 | | | | | | | | | | 03 | 03 |

FILE => 08-012101-b-miscdet02.dgn

USERNAME => trrichf DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 14:34