

INDEX OF PLANS

| SHEET No. | DESCRIPTION |
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| 3 | CONSTRUCTION AREA SIGNS |
| 4-8 | TRAFFIC HANDLING PLANS AND DETAILS |
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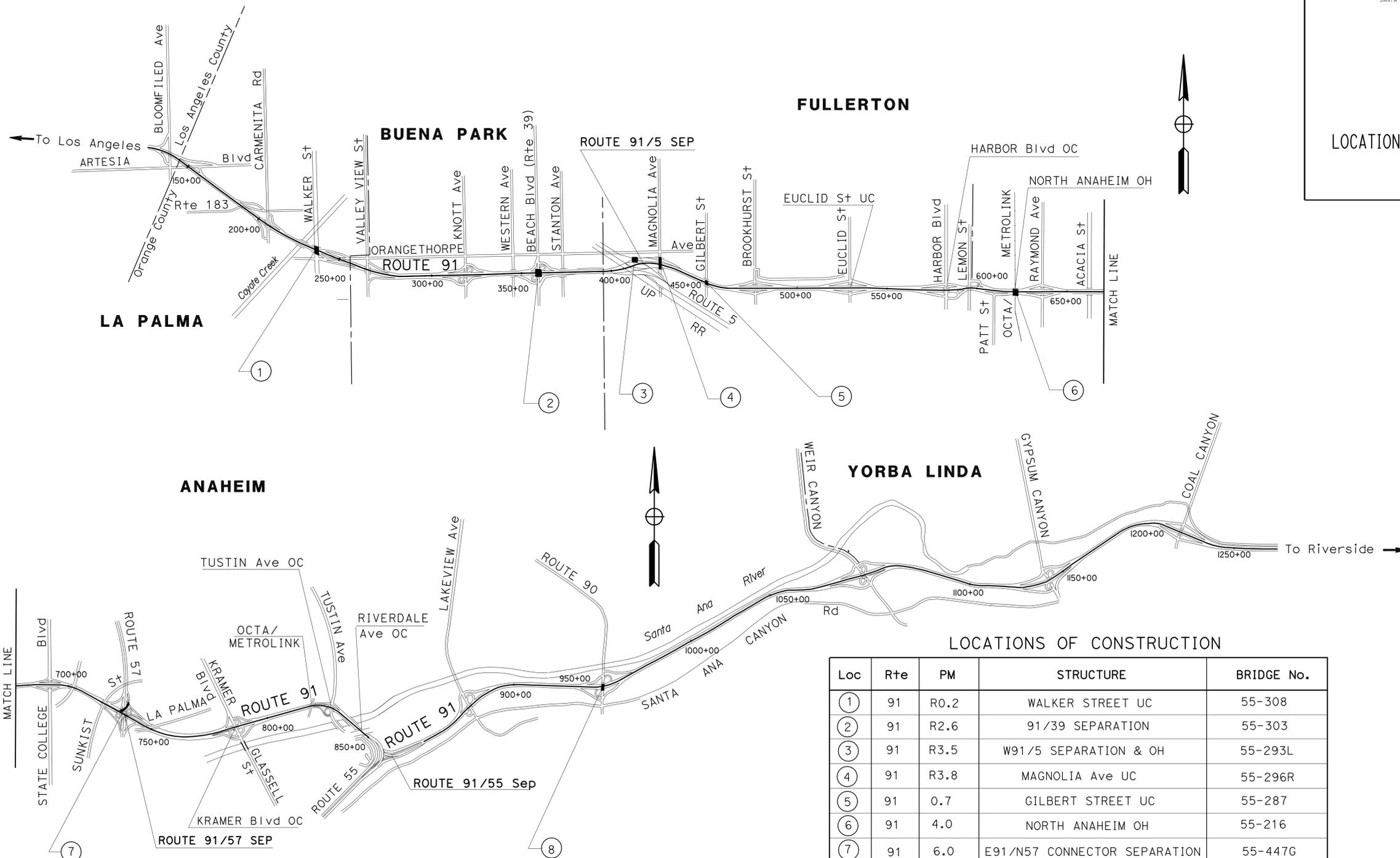
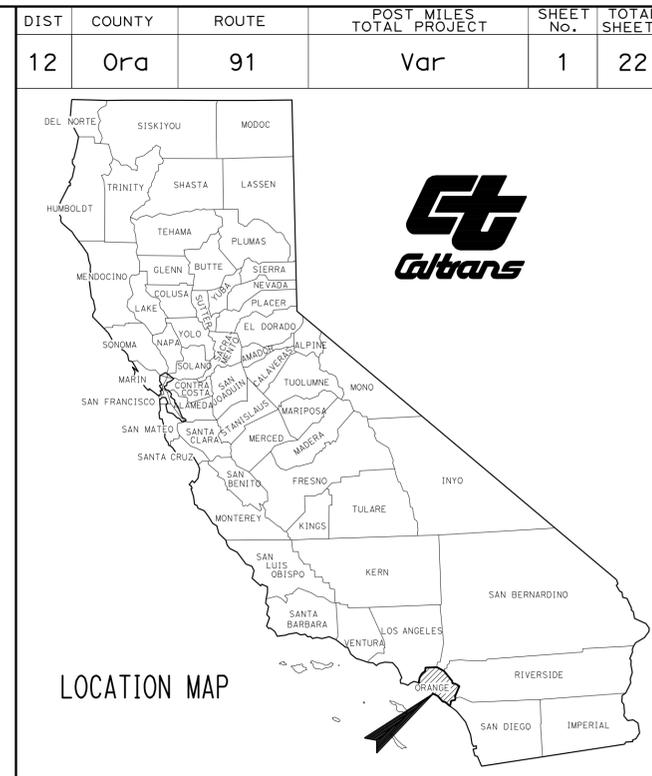
STRUCTURE PLANS

18-22 ROUTE 91 BRIDGES

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

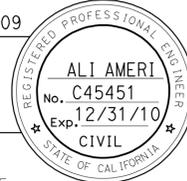


LOCATIONS OF CONSTRUCTION

| Loc | Rte | PM | STRUCTURE | BRIDGE No. |
|-----|-----|-------|------------------------------|------------|
| ① | 91 | R0.2 | WALKER STREET UC | 55-308 |
| ② | 91 | R2.6 | 91/39 SEPARATION | 55-303 |
| ③ | 91 | R3.5 | W91/5 SEPARATION & OH | 55-293L |
| ④ | 91 | R3.8 | MAGNOLIA Ave UC | 55-296R |
| ⑤ | 91 | 0.7 | GILBERT STREET UC | 55-287 |
| ⑥ | 91 | 4.0 | NORTH ANAHEIM OH | 55-216 |
| ⑦ | 91 | 6.0 | E91/N57 CONNECTOR SEPARATION | 55-447G |
| ⑧ | 91 | R11.5 | 91/90 SEPARATION | 55-474 |

NO SCALE

12-21-09
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
February 1, 2010
 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.



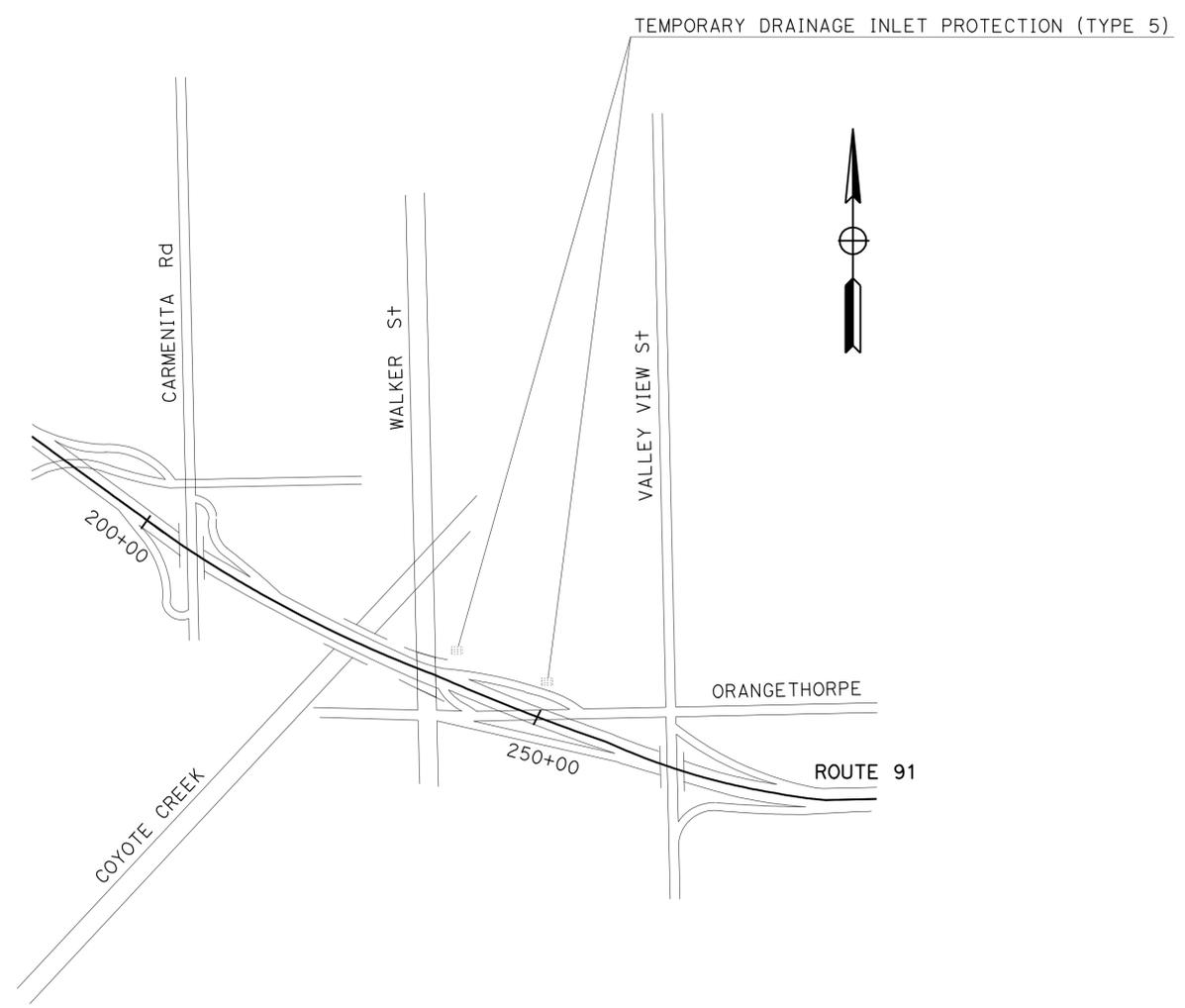
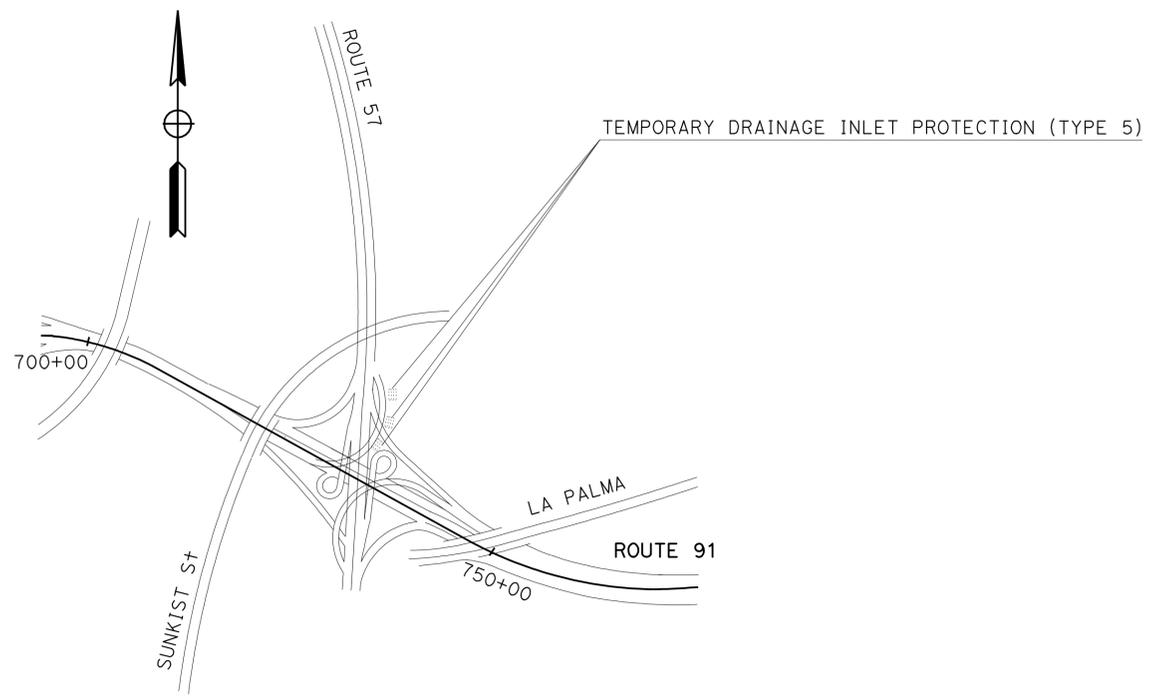
PROJECT MANAGER
LEO CHEN

 DESIGN ENGINEER
ALI AMERI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 SUSAN YEE
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 DESIGNED BY
 REVISIONS

TEMPORARY DRAINAGE INLET PROTECTION

| SHEET No. | (TYPE 5) (EA) |
|-----------|---------------|
| WPC-1 | 5 |
| TOTAL | 5 |



| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 2 | 22 |

REGISTERED CIVIL ENGINEER DATE 12-21-09
 ALI AMERI
 No. C45451
 Exp. 12/31/10
 CIVIL
 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
 PLANS APPROVAL DATE 2-1-10
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.

TEMPORARY WATER POLLUTION CONTROL PLAN
 NO SCALE
WPC-1

THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 SUSAN YEE
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 CALCULATED-DESIGNED BY
 REVISED BY
 DATE REVISED

LEGEND:

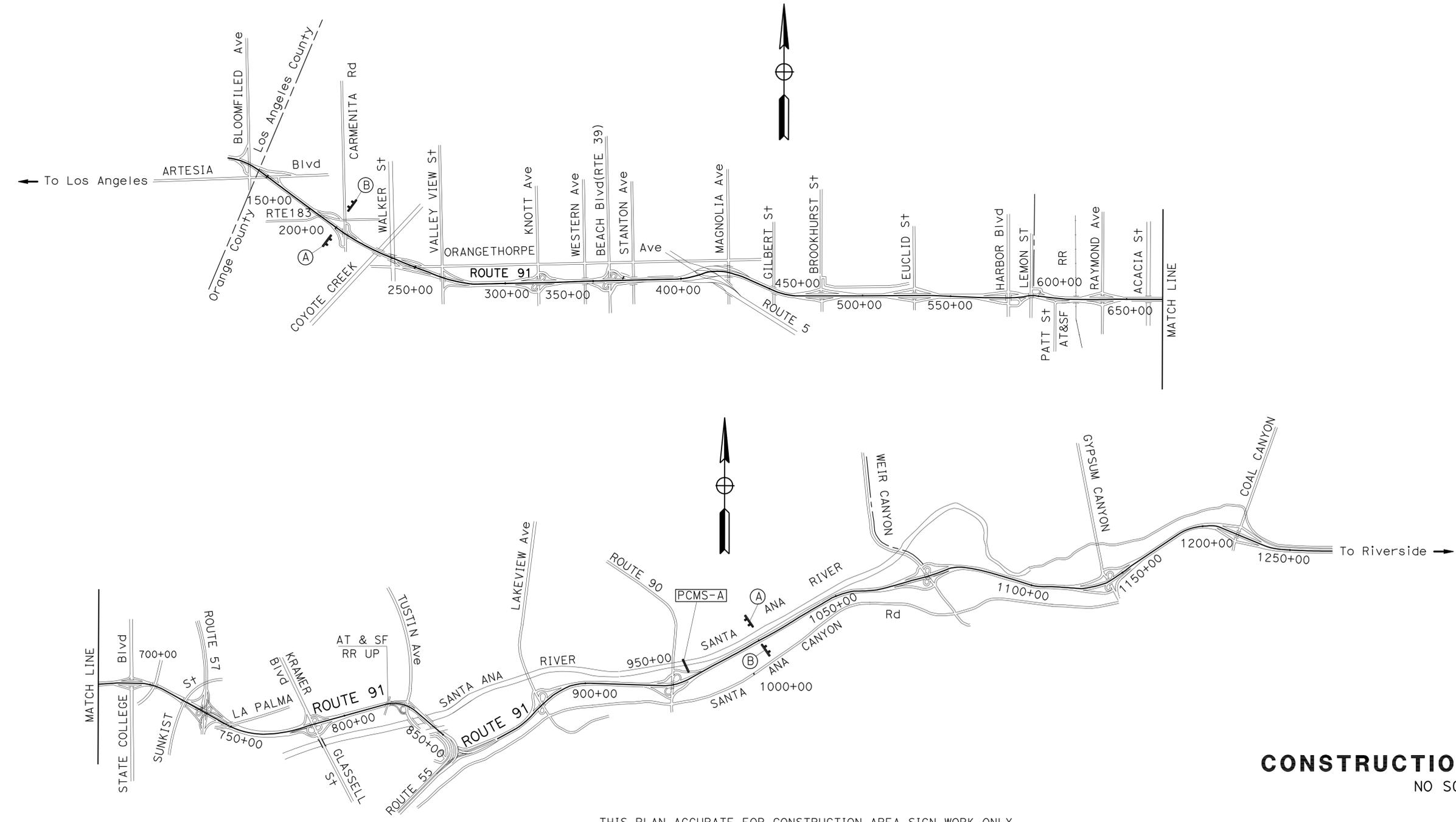
- (X) - CONSTRUCTION AREA SIGN No.
- 1 - CONSTRUCTION AREA SIGN (2 POST)

NOTES:

1. SIGN LOCATION SHOWN ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE SHEET THD-1.

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

| | TYPE | PANEL SIZE | SIGN MESSAGE | No. OF POST AND SIZES | QUANTITY (EA) |
|-----|-------|------------|-----------------|-----------------------|---------------|
| (A) | W20-1 | 48" x 48" | ROAD WORK AHEAD | (2)-4" x 4" | 2 |
| (B) | G20-2 | 36" x 18" | END ROAD WORK | (2)-4" x 6" | 2 |



CONSTRUCTION AREA SIGNS
 NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Oran | 91 | Var | 3 | 22 |

01-25-10
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE

ALI AMERI
 No. C45451
 Exp. 12/31/10
 CIVIL
 STATE OF CALIFORNIA

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| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 4 | 22 |
| 01-25-10 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 2-1-10 PLANS APPROVAL DATE | | | | | |
| <small>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.</small> | | | | | |

ABBREVIATION:

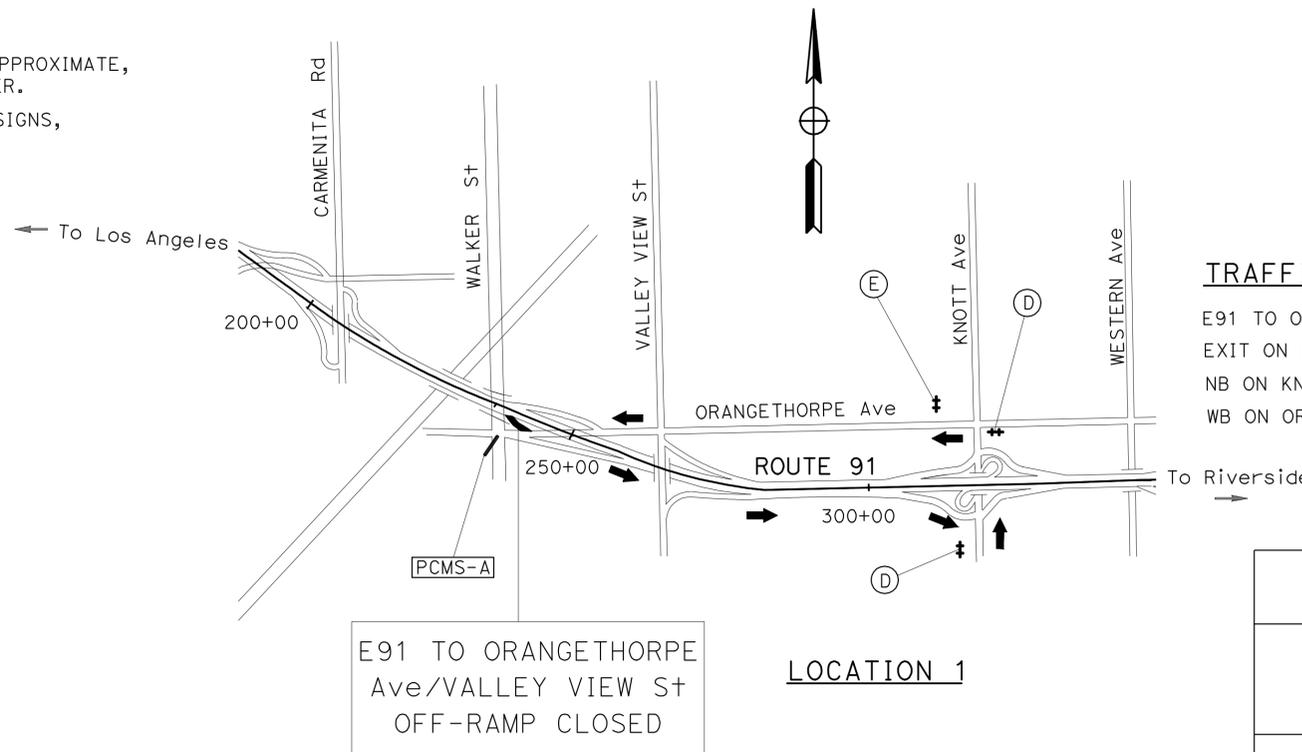
PCMS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.
3. EXACT MESSAGE TO BE DISPLAYED ON THE PCMS WILL BE DETERMINED BY THE ENGINEER.

LEGEND:

- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE SIGN
- CONSTRUCTION AREA SIGNS (DETOUR) TYPE III BARRICADE
- CONSTRUCTION AREA SIGNS No.
- FREEWAY, CONNECTOR AND RAMP CLOSURE

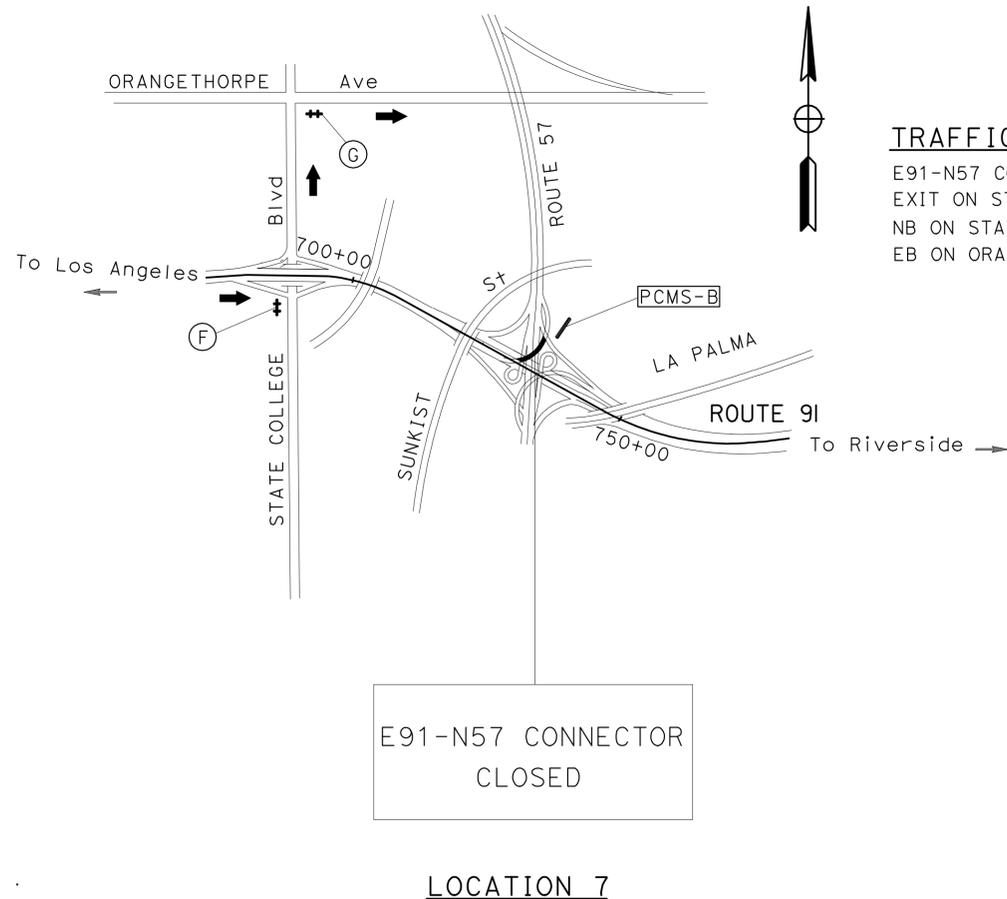


TRAFFIC DETOUR PLAN

E91 TO ORANGETHORPE St/VALLEYVIEW St OFF-RAMP CLOSED
 EXIT ON KNOTT Ave
 NB ON KNOTT Ave TO ORANGETHORPE Ave
 WB ON ORANGETHORPE Ave TO WALKER St

PORTABLE CHANGEABLE MESSAGE SIGN

| PCMS No. | FRAME | SIGN MESSAGE | QUANTITY (EA) |
|----------|-----------|------------------|---------------|
| PCMS-A | 1ST FRAME | RAMP CLOSED | 6 |
| | 2ND FRAME | USE DETOUR | |
| PCMS-B | 1ST FRAME | CONNECTOR CLOSED | 4 |
| | 2ND FRAME | USE DETOUR | |



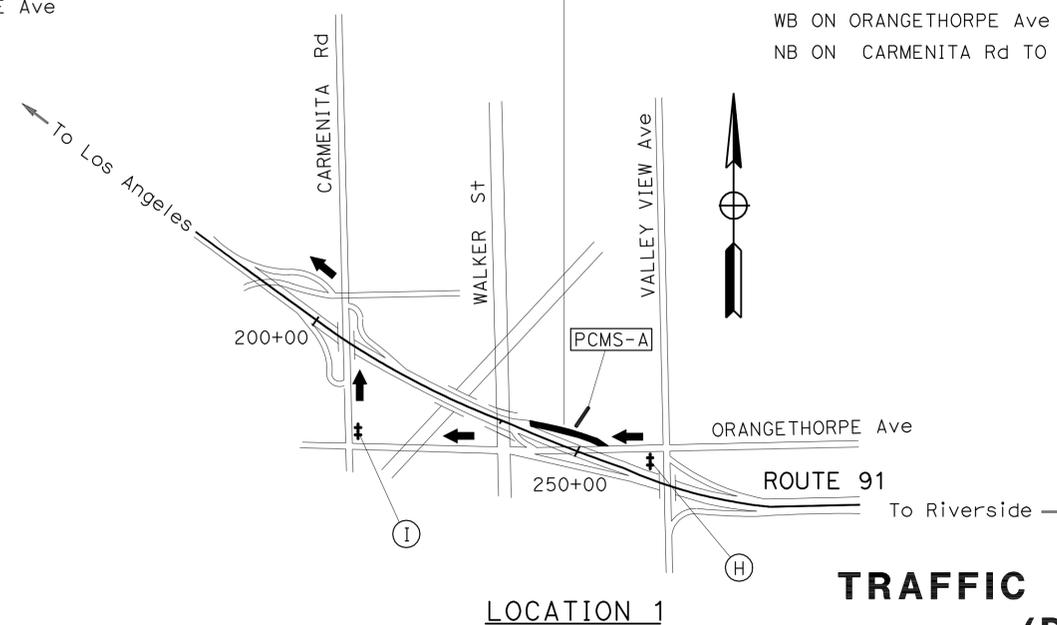
TRAFFIC DETOUR PLAN

E91-N57 CONNECTOR CLOSED
 EXIT ON STATE COLLEGE Blvd
 NB ON STATE COLLEGE Ave TO ORANGETHORPE Ave
 EB ON ORANGETHORPE Ave TO N57 ON-RAMP

ORANGETHORPE Ave/
VALLEY VIEW St
TO WB 91 ON-RAMP
CLOSED

TRAFFIC DETOUR PLAN

ORANGETHORPE St/VALLEY VIEW St TO WB 91 ON-RAMP CLOSED
 WB ON ORANGETHORPE Ave TO CARMENITA Rd
 NB ON CARMENITA Rd TO WB ON-RAMP



TRAFFIC HANDLING PLAN (DETOUR)

NO SCALE

TH-1

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 SUSAN YEE
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 DESIGNED BY
 CALCULATED BY
 DATE REVISIED
 REVISED BY



| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Oran | 91 | Var | 5 | 22 |

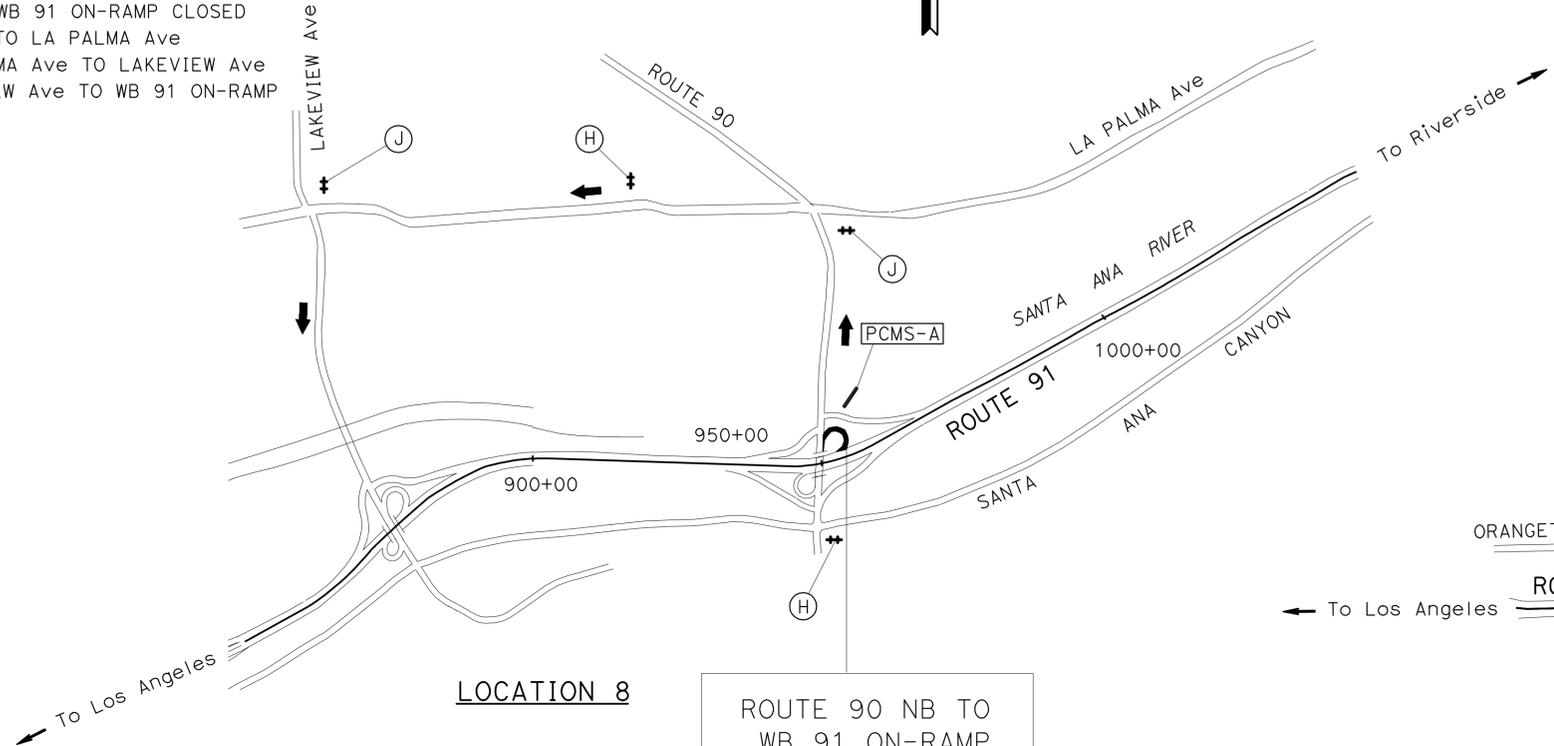
| | |
|--------------------------------|----------|
| REGISTERED CIVIL ENGINEER DATE | 01-25-10 |
| PLANS APPROVAL DATE | 2-1-10 |

REGISTERED PROFESSIONAL ENGINEER
 ALI AMERI
 No. C45451
 Exp. 12/31/10
 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.

TRAFFIC DETOUR PLAN

ROUTE 90 NB TO WB 91 ON-RAMP CLOSED
 NB ON ROUTE 90 TO LA PALMA Ave
 GO WB ON LA PALMA Ave TO LAKEVIEW Ave
 GO SB ON LAKEVIEW Ave TO WB 91 ON-RAMP

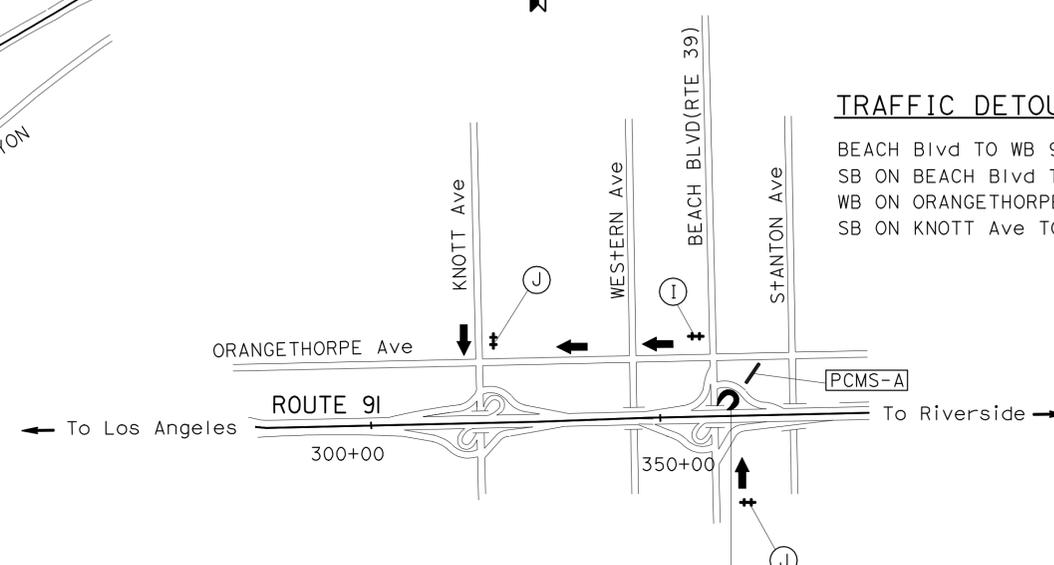


LOCATION 8

ROUTE 90 NB TO
WB 91 ON-RAMP
CLOSED

TRAFFIC DETOUR PLAN

BEACH Blvd TO WB 91 ON-RAMP CLOSED
 SB ON BEACH Blvd TO ORANGETHORPE Ave
 WB ON ORANGETHORPE Ave TO KNOTT Ave
 SB ON KNOTT Ave TO WB 91

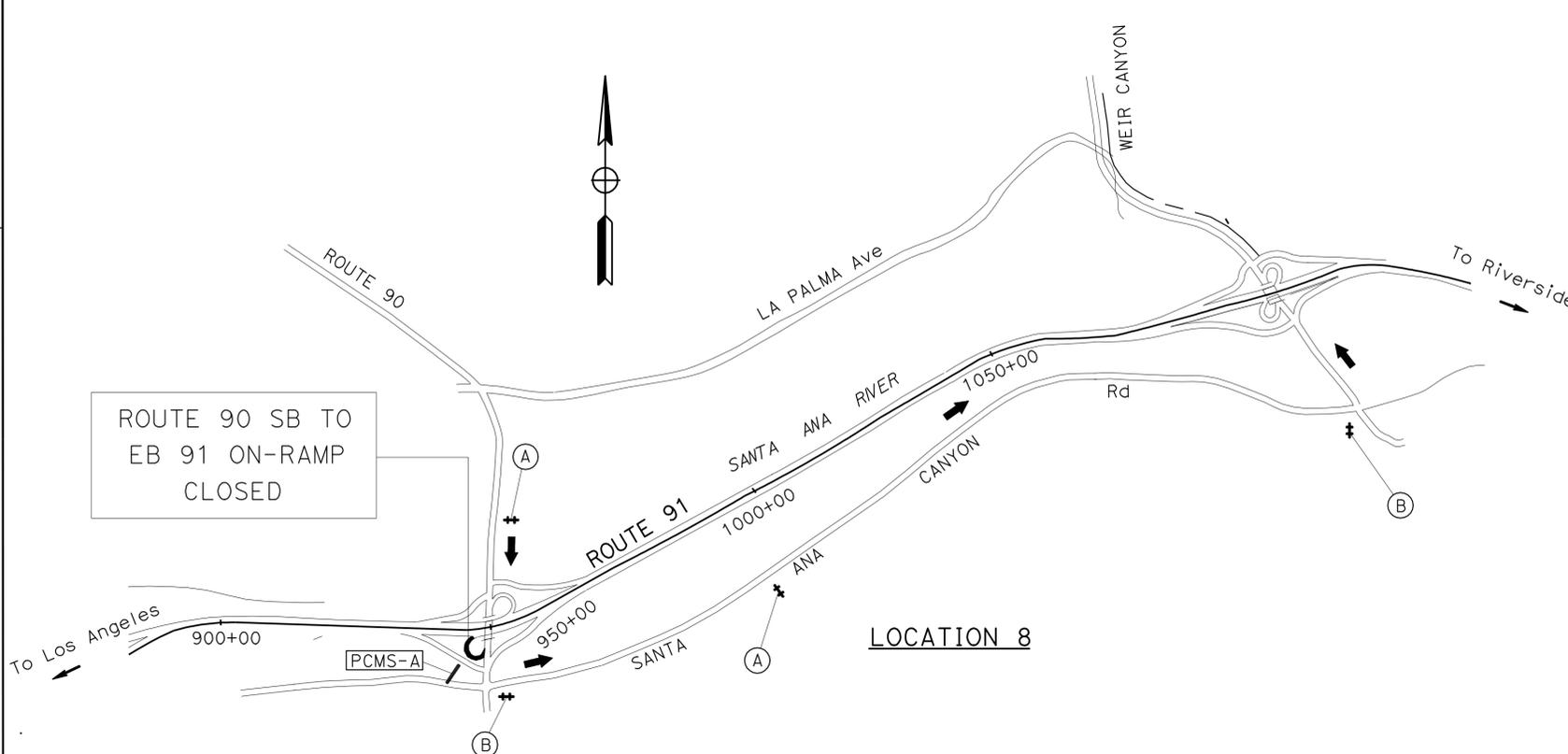


LOCATION 2

BEACH Blvd TO
WB 91 ON-RAMP
CLOSED

TRAFFIC DETOUR PLAN

ROUTE 90 SB TO EB 91 ON-RAMP CLOSED
 ROUTE 90 GO TO SANTA ANA CANYON Rd
 EB ON SANTA ANA CANYON Rd TO WEIR CANYON Rd
 NB ON WEIR CANYON Rd TO EB 91 ON-RAMP



LOCATION 8

ROUTE 90 SB TO
EB 91 ON-RAMP
CLOSED

TRAFFIC HANDLING PLAN (DETOUR)

NO SCALE

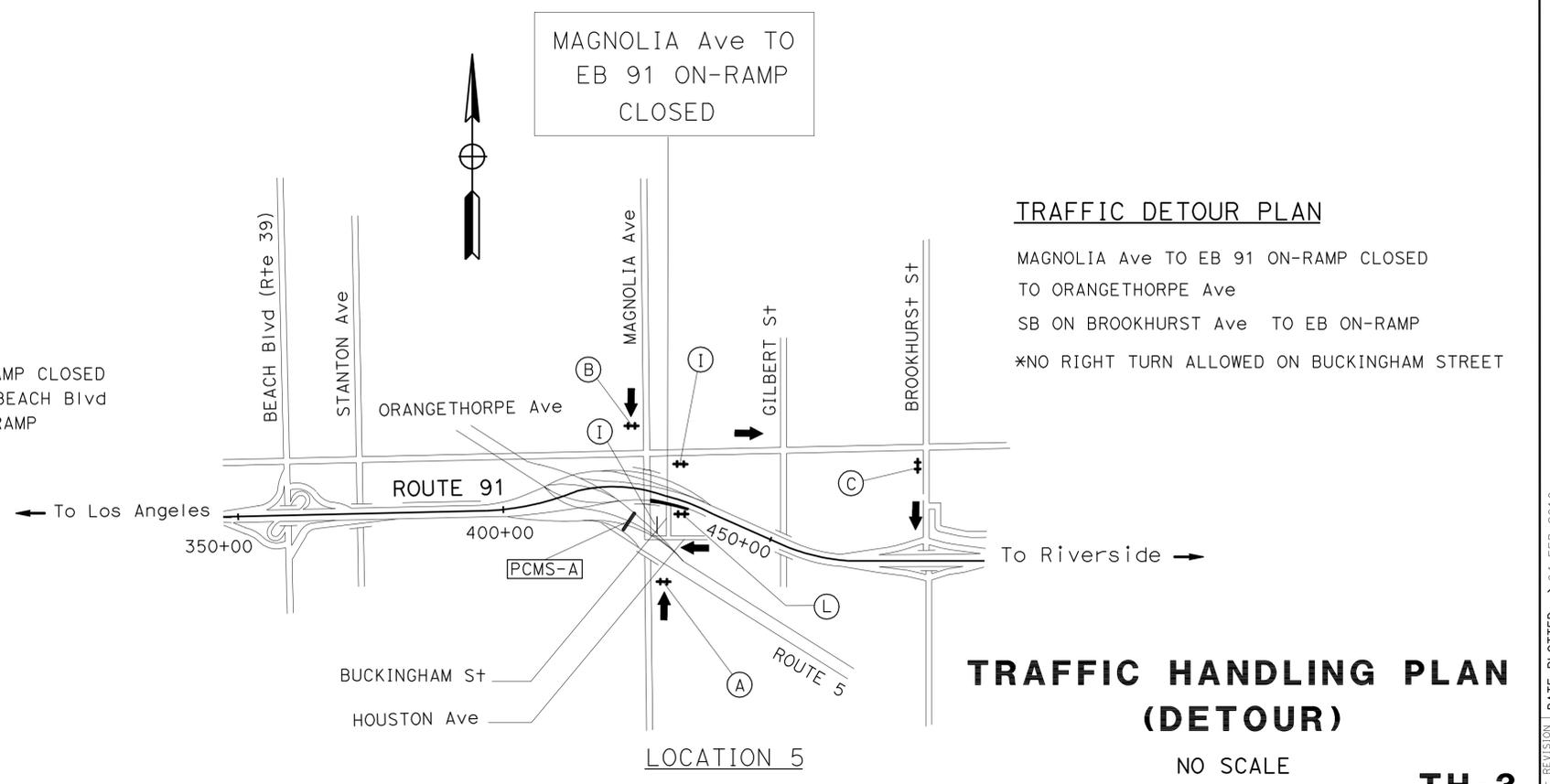
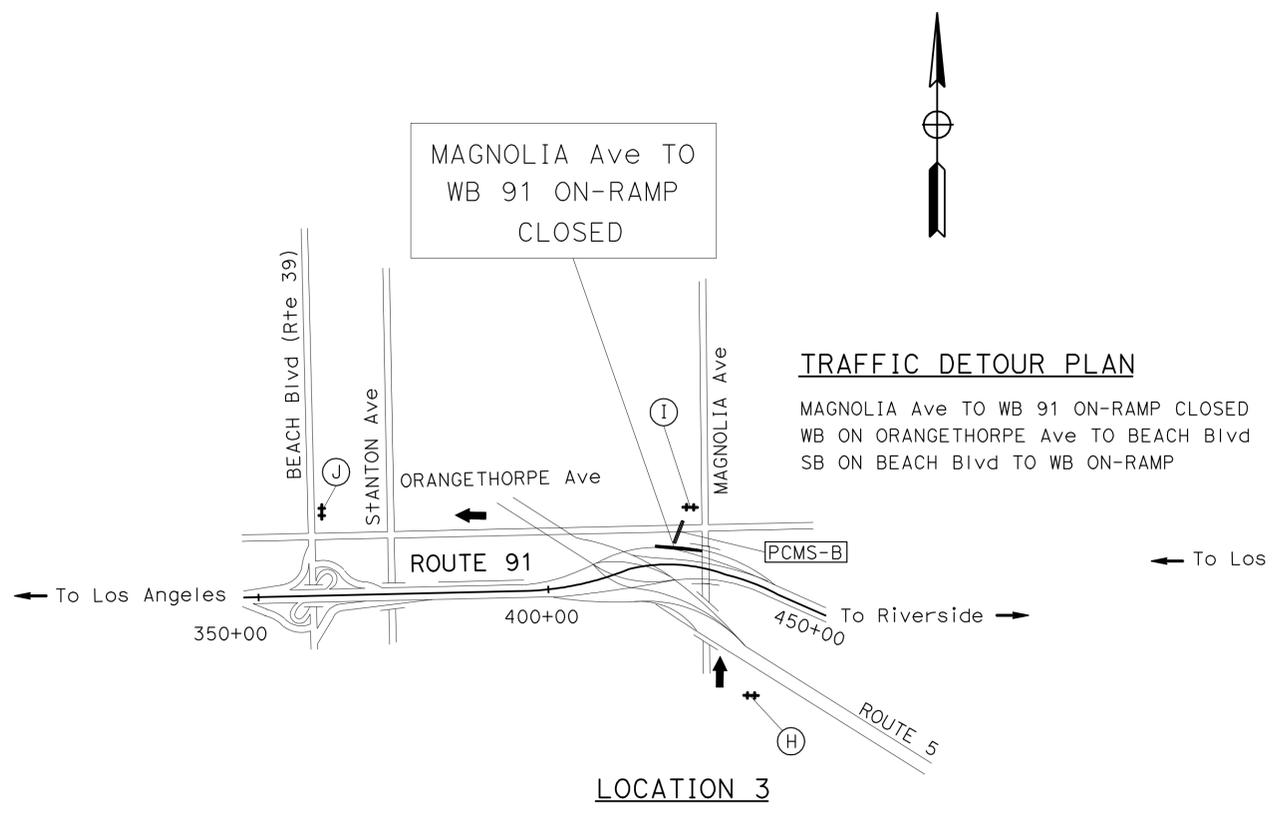
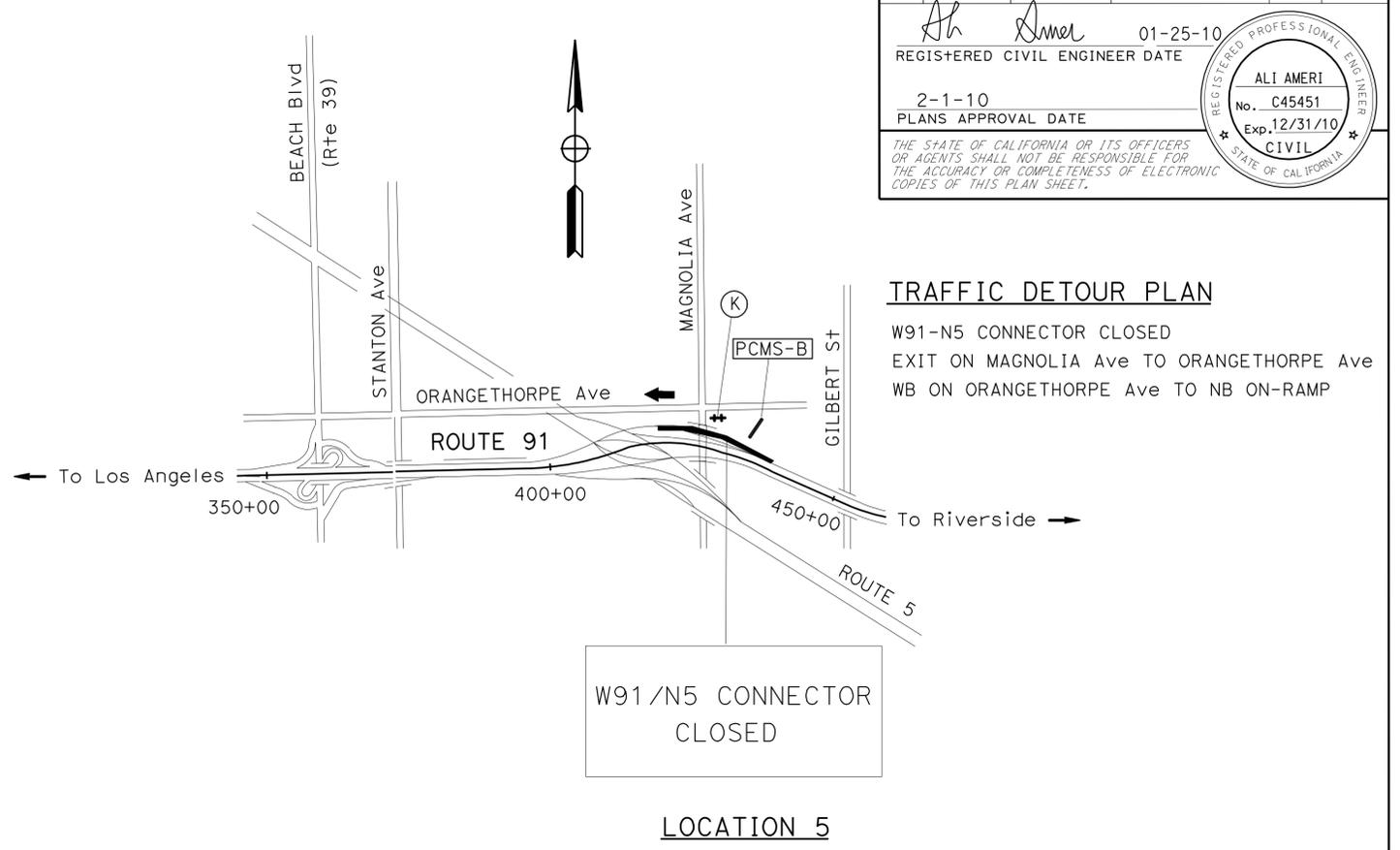
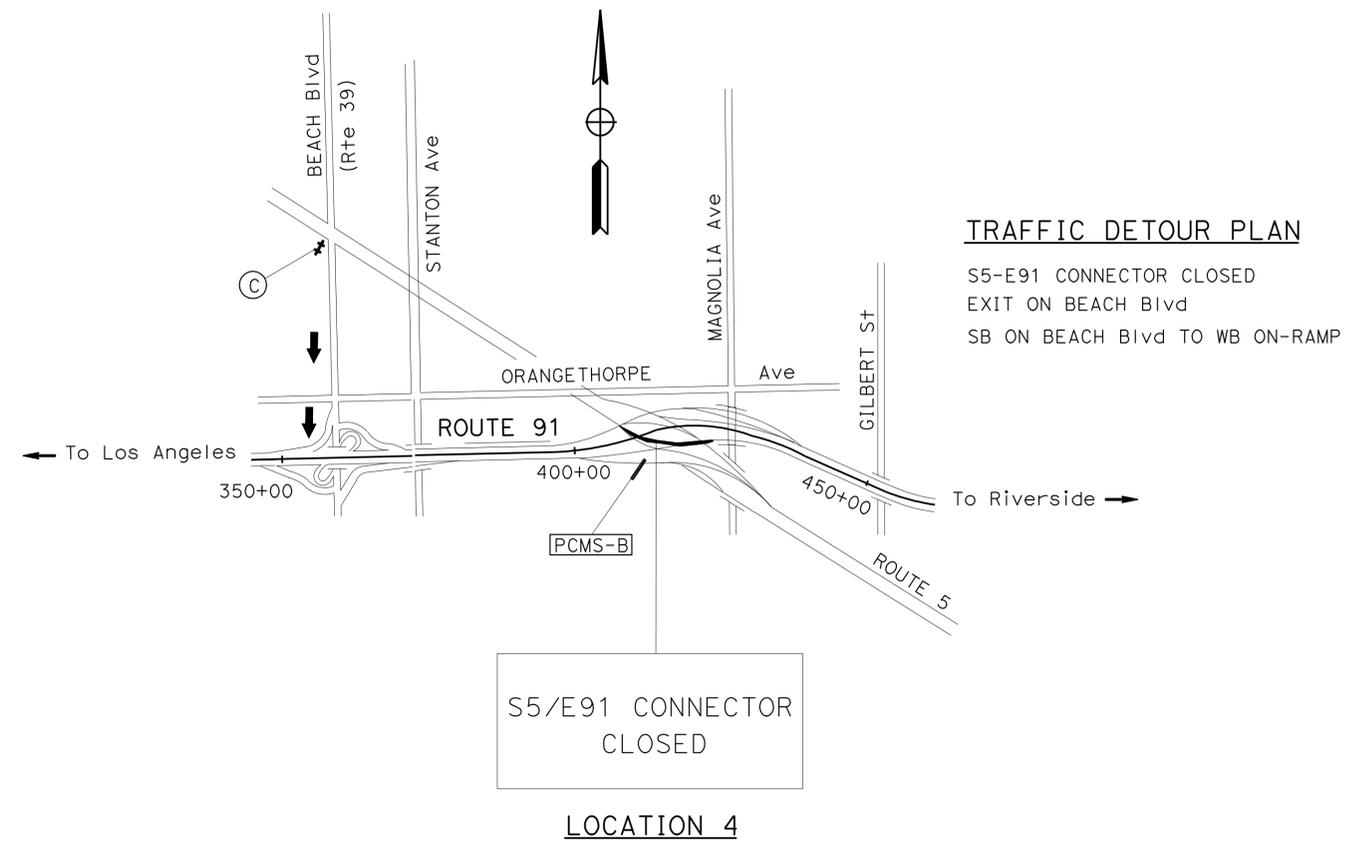
TH-2

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY

| | |
|--|------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN |
| FUNCTIONAL SUPERVISOR | SUSAN YEE |
| CALCULATED-DESIGNED BY | CHECKED BY |
| REVISOR | DATE |
| REVISION | DATE |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 SUSAN YEE
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 CALCULATED-DESIGNED BY
 DATE REVISED
 REVISED BY

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|--------|-------|--------------------------|-----------|--------------|
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| 01-25-10 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 2-1-10 PLANS APPROVAL DATE | | | | | |
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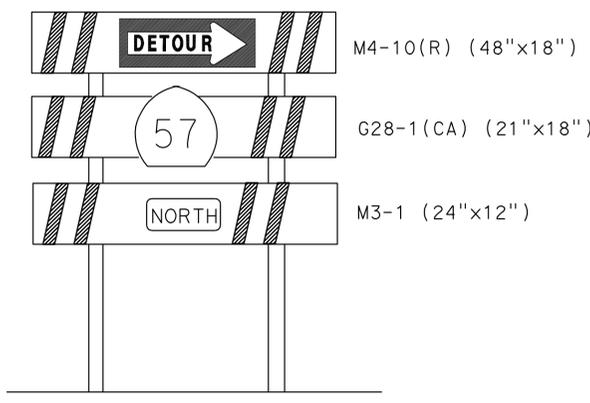


THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY

CONSTRUCTION AREA SIGNS (DETOUR)

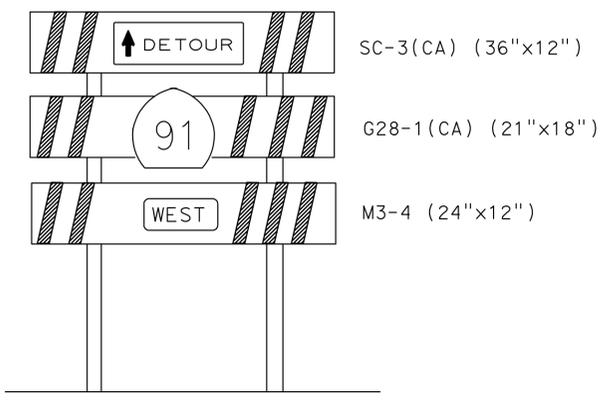
| SIGN No. | SIGN CODE | No. OF SIGNS | TYPE III BARRICADES (EA) |
|----------|-----------|--------------|--------------------------|
| A | SC-3(CA) | 3 | 3 |
| | G28-1(CA) | 3 | |
| | M3-2 | 3 | |
| B | M4-10(L) | 3 | 3 |
| | G28-1(CA) | 3 | |
| | M3-2 | 3 | |
| C | M4-10(R) | 2 | 2 |
| | G28-1(CA) | 2 | |
| | M3-2 | 2 | |
| D | M4-10(L) | 2 | 2 |
| | G7 Mod | 2 | |
| E | SC-3(CA) | 1 | 1 |
| | G7 Mod | 1 | |
| F | M4-10(L) | 1 | 1 |
| | G28-1(CA) | 1 | |
| | M3-1 | 1 | |
| G | M4-10(R) | 1 | 1 |
| | G28-1(CA) | 1 | |
| | M3-1 | 1 | |
| H | SC-3(CA) | 4 | 4 |
| | G28-1(CA) | 4 | |
| | M3-4 | 4 | |
| I | M4-10(R) | 5 | 5 |
| | G28-1(CA) | 5 | |
| | M3-4 | 5 | |
| J | M4-10(L) | 5 | 5 |
| | G28-1(CA) | 5 | |
| | M3-4 | 5 | |
| K | M4-10(L) | 1 | 1 |
| | M1-1 | 1 | |
| | M3-1 | 1 | |
| L | T44 | 1 | 1 |
| TOTAL | | | 29 |

NOTE: FOR ADDITIONAL QUANTITIES OF CONSTRUCTION AREA SIGNS, SEE SHEET CS-1.



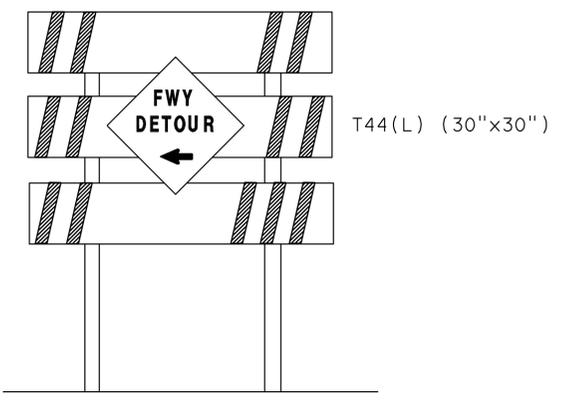
CONSTRUCTION AREA SIGN MOUNTED ON TYPE III BARRICADE

G



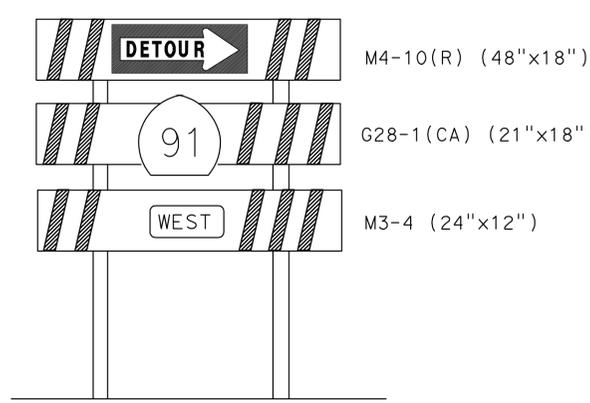
CONSTRUCTION AREA SIGN MOUNTED ON TYPE III BARRICADE

H



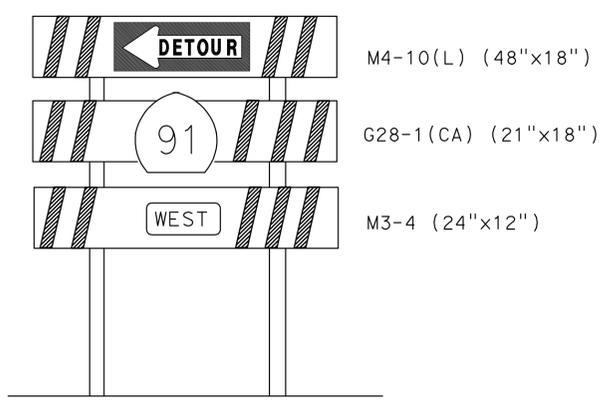
CONSTRUCTION AREA SIGN MOUNTED ON TYPE III BARRICADE

L



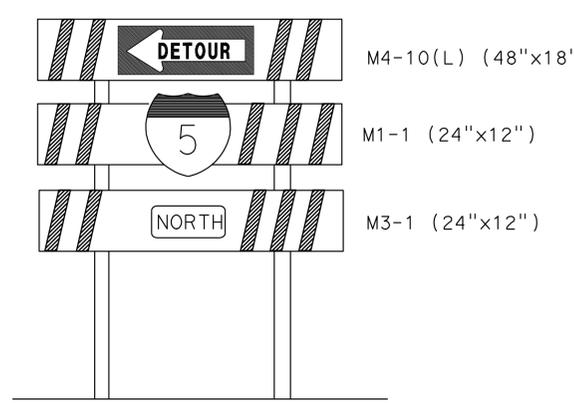
CONSTRUCTION AREA SIGN MOUNTED ON TYPE III BARRICADE

I



CONSTRUCTION AREA SIGN MOUNTED ON TYPE III BARRICADE

J



CONSTRUCTION AREA SIGN MOUNTED ON TYPE III BARRICADE

K

TRAFFIC HANDLING DETAILS

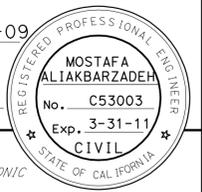
NO SCALE

THD-2

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 91 | Var | 9 | 22 |

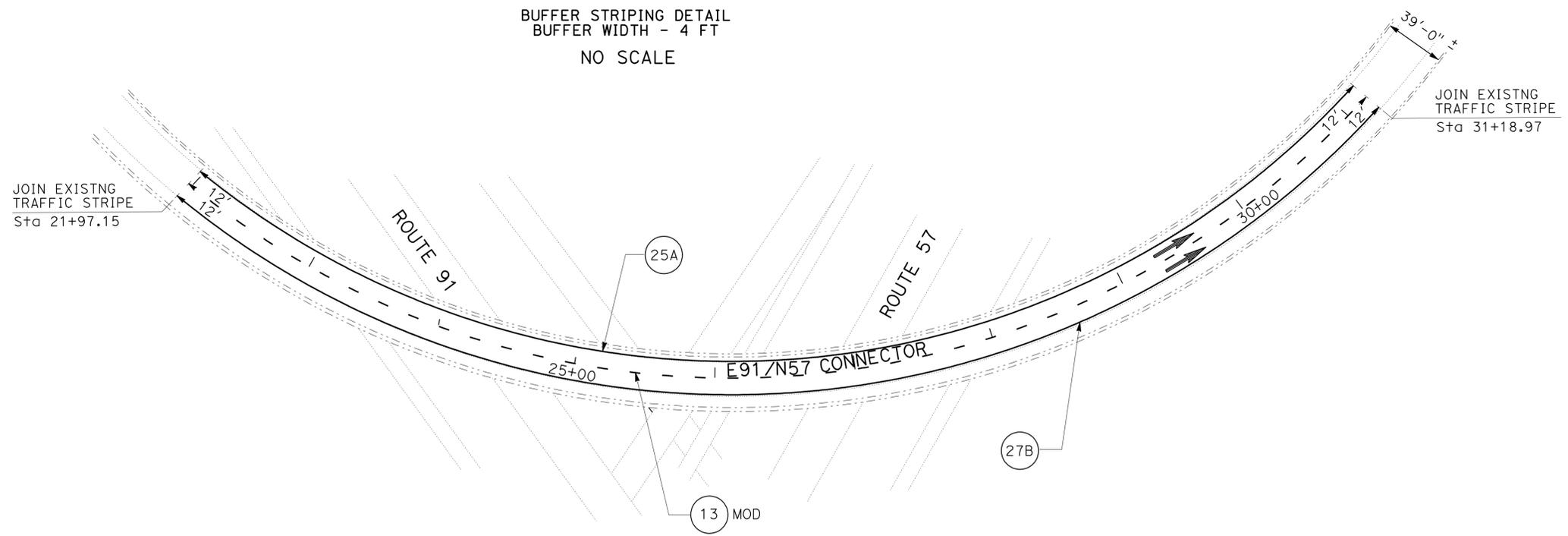
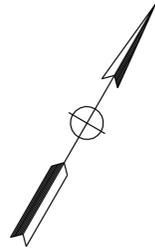
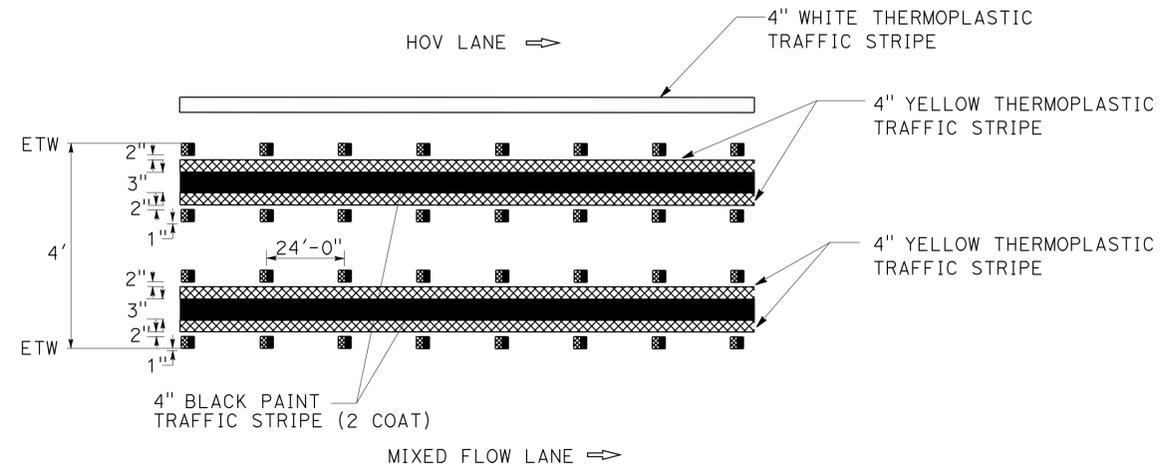
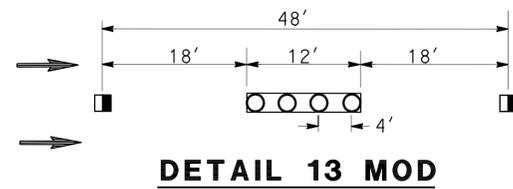
Mostafa Aliakbarzadeh 12-21-09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE

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



LEGEND:

- PAVEMENT DELINEATION DETAIL
- CHANGE IN PAVEMENT DELINEATION
- TYPE G ONE-WAY CLEAR RETRO-REFLECTIVE MARKER
- TYPE H ONE-WAY YELLOW RETRO-REFLECTIVE MARKER
- TYPE A WHITE NON-REFLECTIVE MARKER
- 4" WHITE THERMOPLASTIC TRAFFIC STRIPE
- TRAFFIC DIRECTION



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 ADEL MALEK
 FUNCTIONAL SUPERVISOR
 MOSTAFA ALIAKBARZADEH
 REVISOR
 DATE REVISOR
 DATE REVISOR

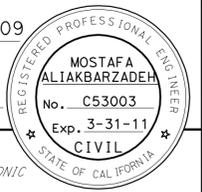
THIS PLAN ACCURATE PAVEMENT DELINEATION WORK ONLY

**PAVEMENT DELINEATION PLAN
 (LOCATION 7)
 SCALE AS SHOWN**

PD-1

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 91 | Var | 10 | 22 |

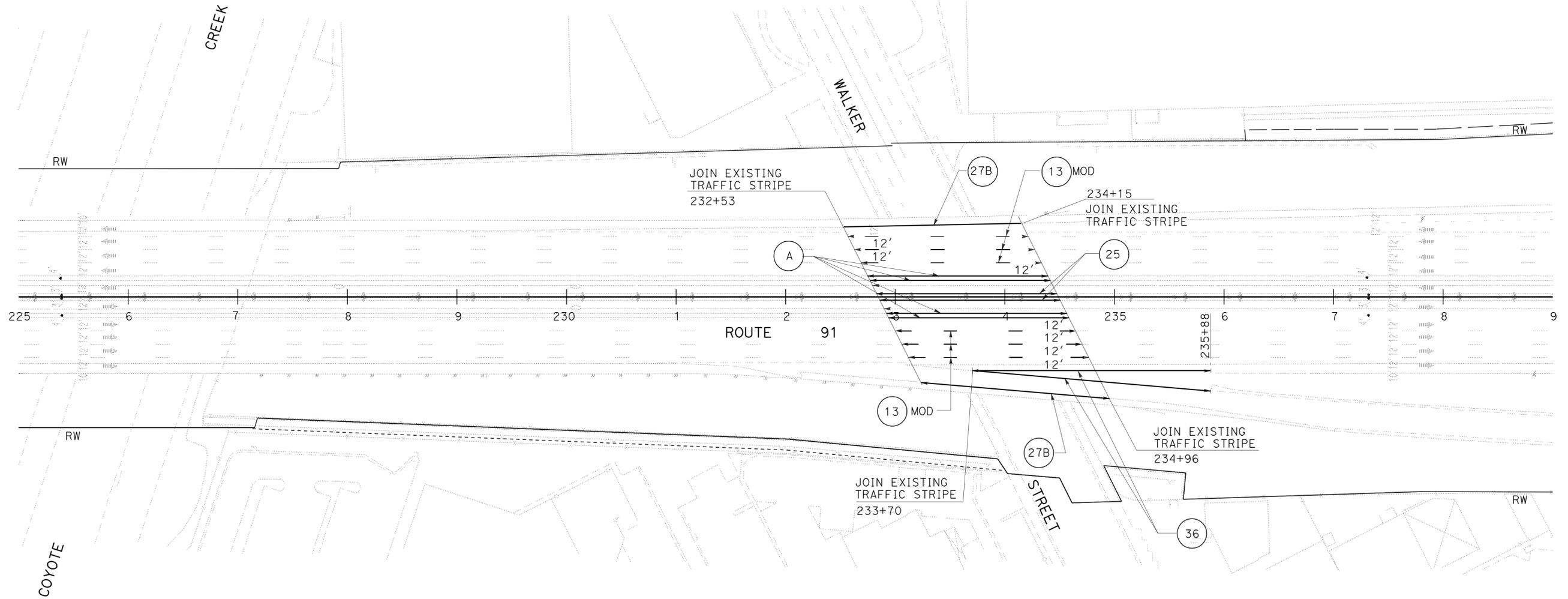
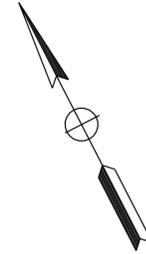
Mostafa Aliakbarzadeh 12-21-09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE



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NOTE:

FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE



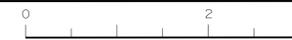
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR
 ADEL MALEK
 CHECKED BY
 MOSTAFA ALIAKBARZADEH
 DATE REVISED
 REVISIONS:

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

**PAVEMENT DELINEATION PLAN
 (LOCATION 1)**

SCALE: 1" = 50'

PD-2



FUNCTIONAL SUPERVISOR
 ADEL MALEK

CALCULATED-DESIGNED BY
 CHECKED BY
 MOSTAFA ALIAKBARZADEH

REVISOR BY
 DATE REVISOR

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 11 | 22 |

Mostafa Aliaakbarzadeh 01-25-10
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE

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PAVEMENT DELINEATION QUANTITIES

| SHEET No. | | THERMOPLASTIC TRAFFIC STRIPE | | | | | | | PAINT TRAFFIC STRIPE (2 COAT) | PAVEMENT MARKER | | | REMOVE | | | | |
|-----------|--|------------------------------|------------------------------|-------------------------------|-----------------|----------------|--|-----------------------------|-------------------------------|-----------------|----------------|--------|---------|--------------------------------------|---|--------------------------------|-----------------|
| | | DETAIL 27B 4" SOLID WHITE | DETAIL 25 4" SOLID YELLOW | DETAIL 25A 4" SOLID YELLOW | DETAIL A | | DETAIL 13 MOD 4" WHITE (BROKEN 36-12) | DETAIL 36 8" SOLID WHITE | | 4" SOLID BLACK | NON-REFLECTIVE | | | THERMOPLASTIC TRAFFIC STRIPE (WHITE) | YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE) | PAINTED TRAFFIC STRIPE (WHITE) | PAVEMENT MARKER |
| | | | | | 4" SOLID YELLOW | 4" SOLID WHITE | | | | | TYPE A | TYPE G | TYPE H | | | | |
| | | LF | LF | LF | LF | LF | LF | LF | LF | EA | EA | EA | LF | LF | LF | EA | |
| PD-1 | LOCATION 6 - E91-N57 / 91&57 CONNECTOR SEPARATION Sta 21+97.15 TO Sta 31+18.97 | 921.82 | | 921.82 | | | 921.82 | | | 80 | 22 | 22 | 998.57 | 921.82 | | 124 | |
| PD-2 | LOCATION 1 - ROUTE 91 AT WALKER ST Sta 232+53 TO Sta 235+88 | 324 | 324 | | 1296 | 324 | 986 | 436 | 648 | 84 | 47 | 65 | 730.17 | 1620 | 648 | 196 | |
| | SUBTOTAL | 1245.82 | 324 | 921.82 | 1296 | 324 | 1907.82 | 436 | 648 | 164 | 69 | 87 | 1728.74 | 2541.82 | 648 | 320 | |
| | TOTAL | 4111.64 | | | | | 1907.82 | 436 | 648 | 164 | 156 | | 1728.74 | 2541.82 | 648 | 320 | |

PAVEMENT DELINEATION QUANTITIES

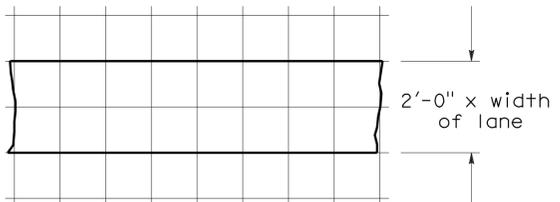
PDQ-1

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 91 | Var | 12 | 22 |

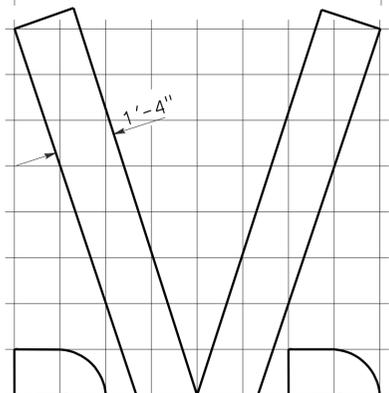
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

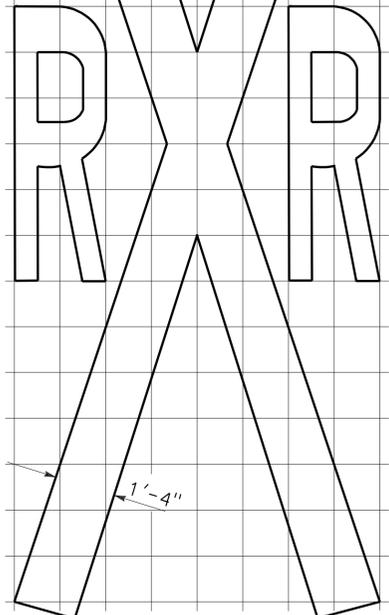
To accompany plans dated 2-1-10



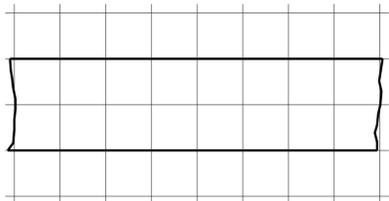
8'-0"



6'-0"



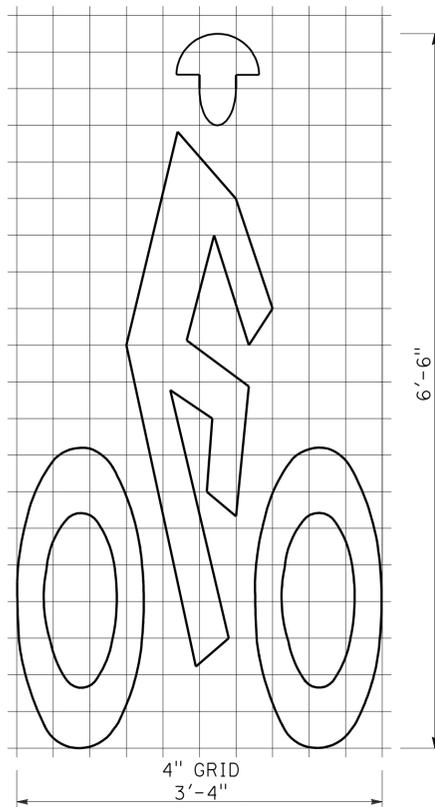
14'-0"



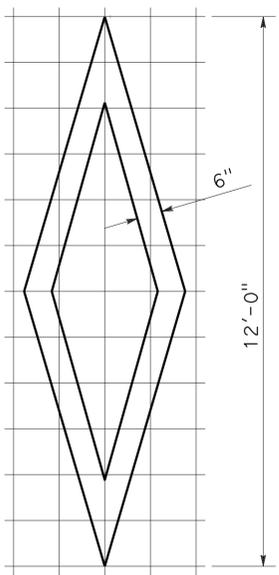
1'-0" GRID
A=70 sq ft *

RAILROAD CROSSING SYMBOL

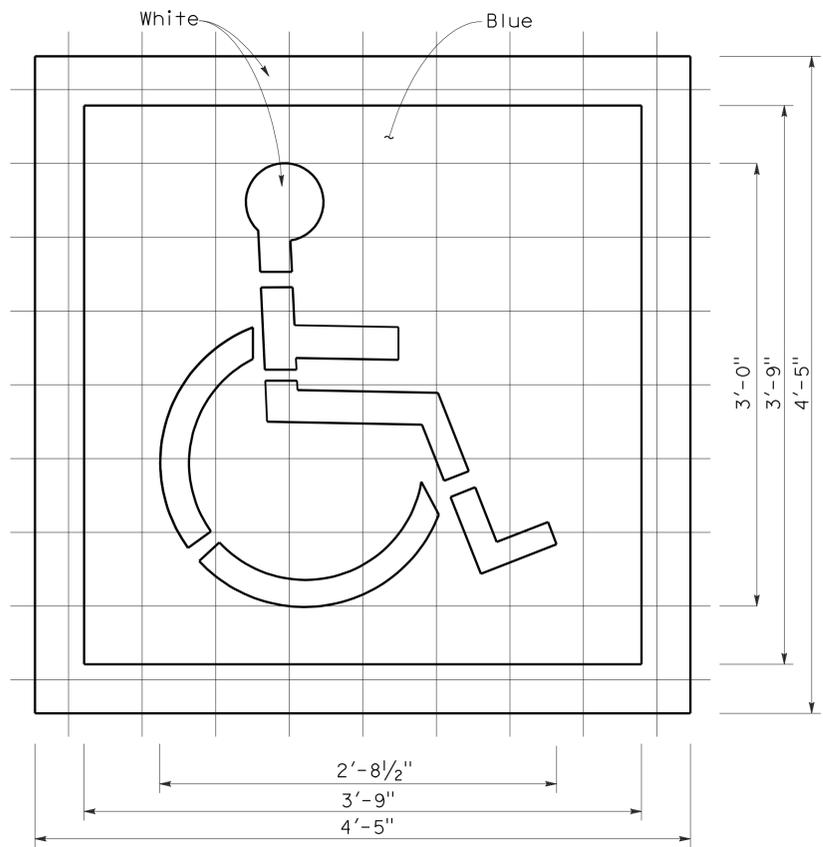
*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



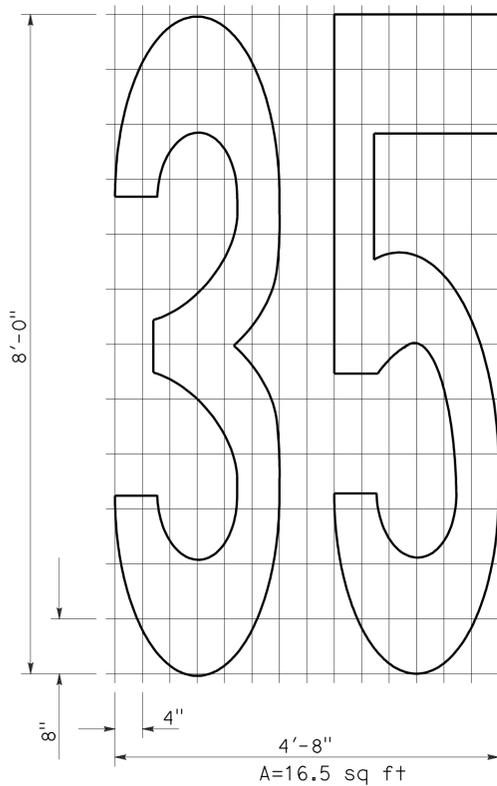
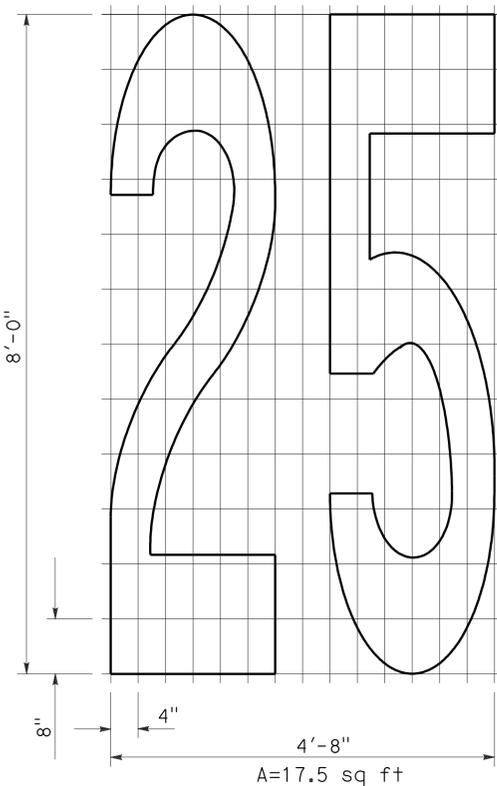
A=7 sq ft
BIKE LANE SYMBOL



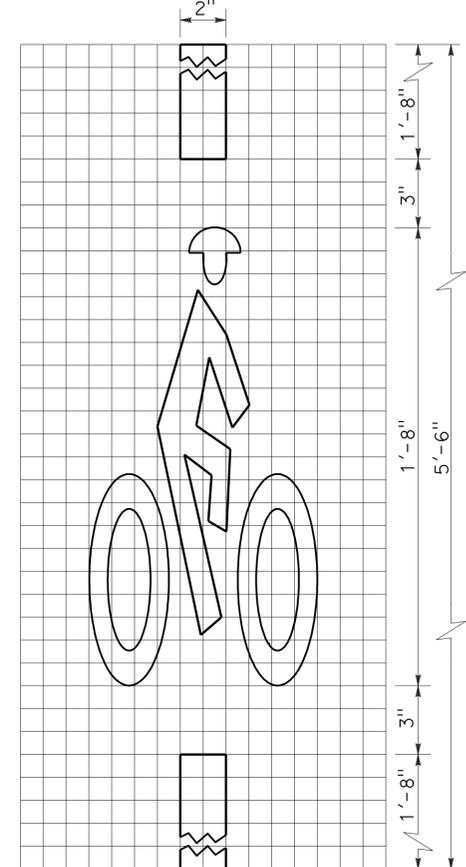
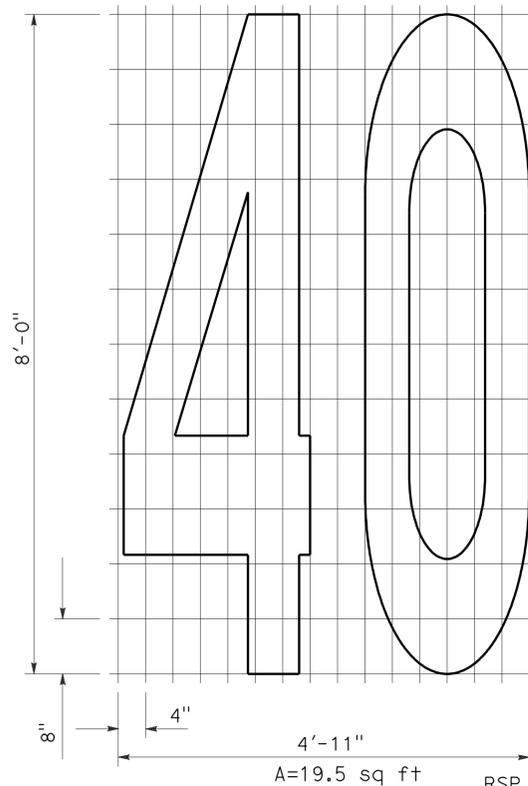
A=11 sq ft
DIAMOND SYMBOL



6" GRID
A (White) =9 sq ft
A (Blue) =14 sq ft
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



NUMERALS



A=2 sq ft
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.

2006 REVISED STANDARD PLAN RSP A24C

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 13 | 22 |

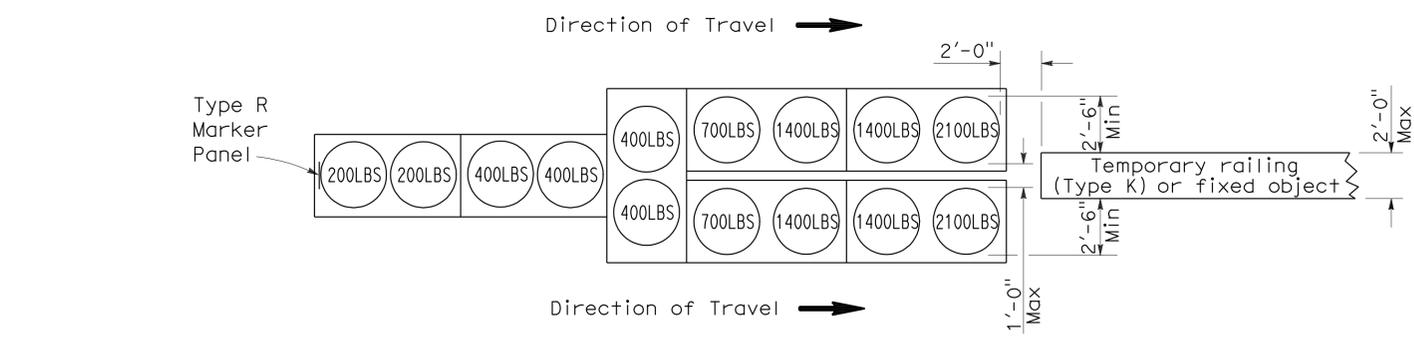
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

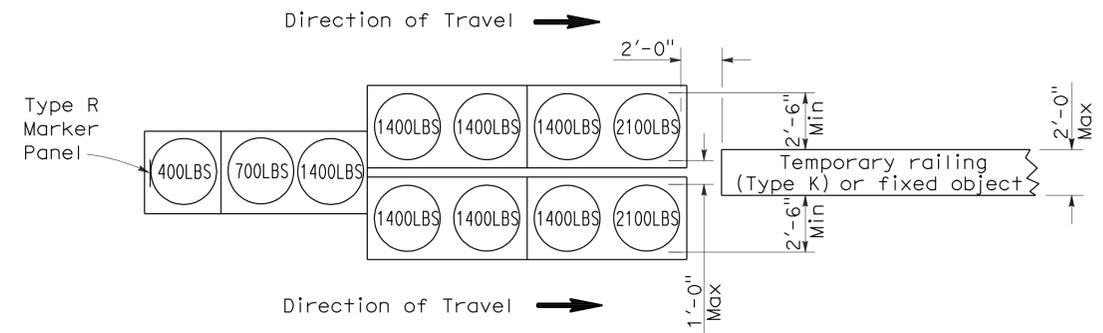
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-1-10



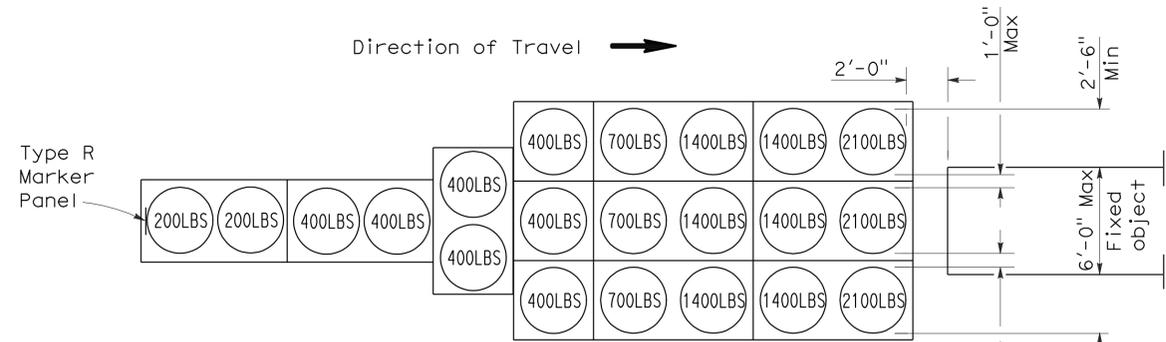
ARRAY 'TU14'

Approach speed 45 mph or more



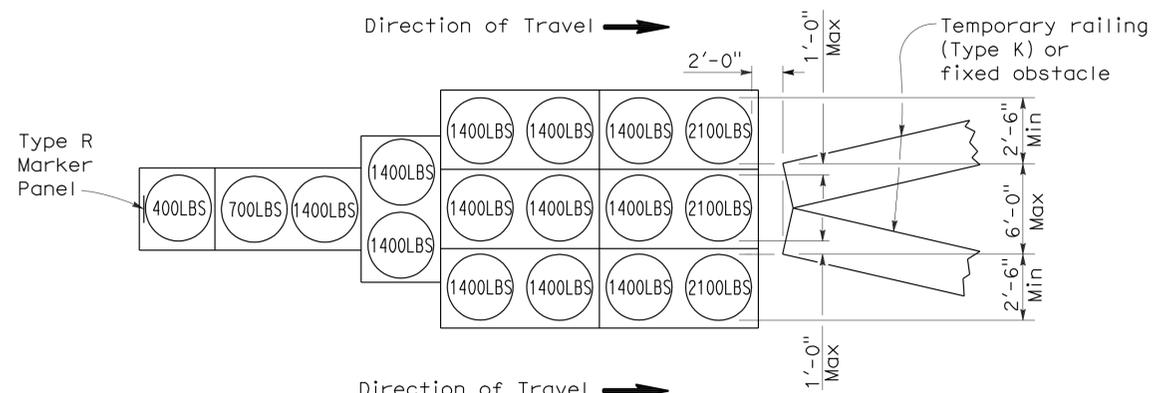
ARRAY 'TU11'

Approach speed less than 45 mph



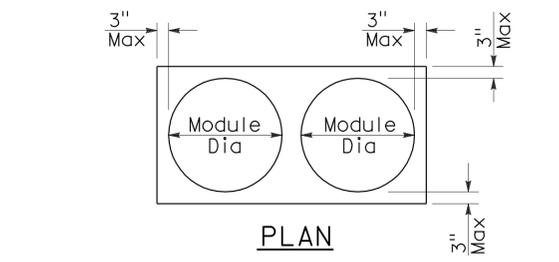
ARRAY 'TU21'

Approach speed 45 mph or more

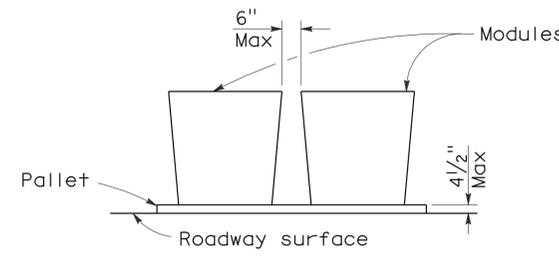


ARRAY 'TU17'

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

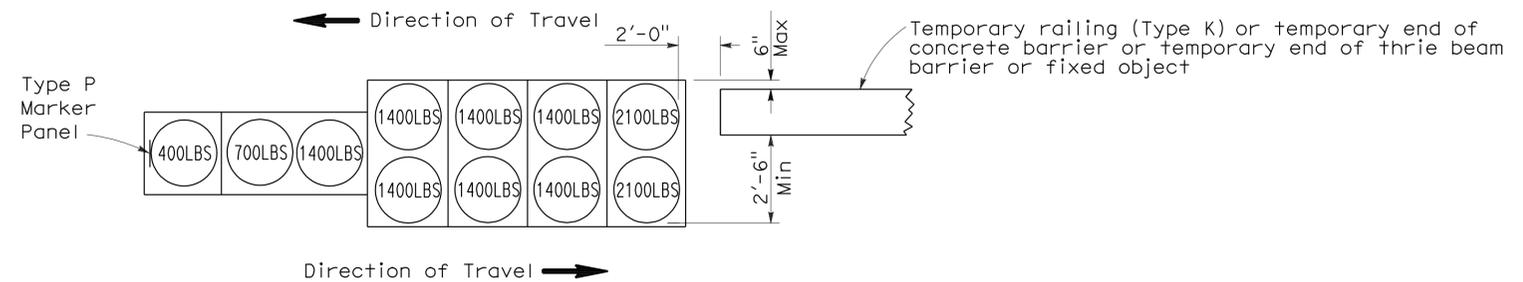
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 91 | Var | 14 | 22 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

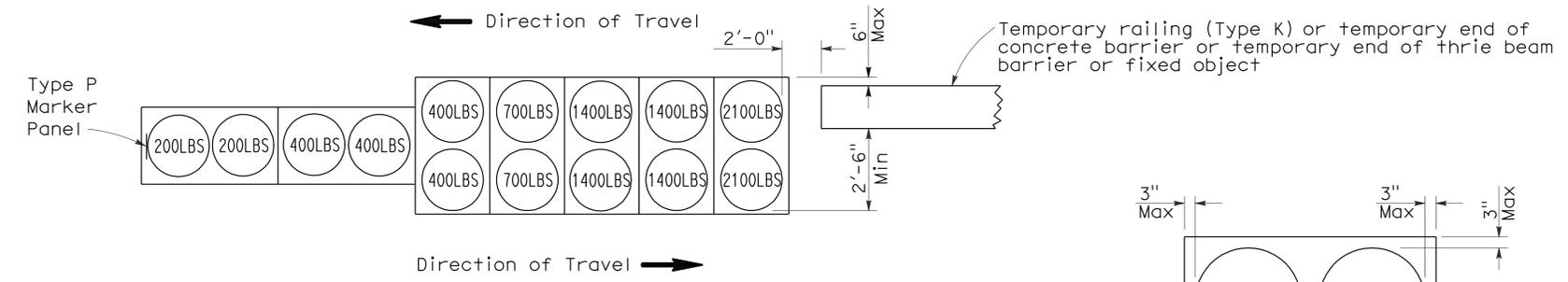
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-1-10



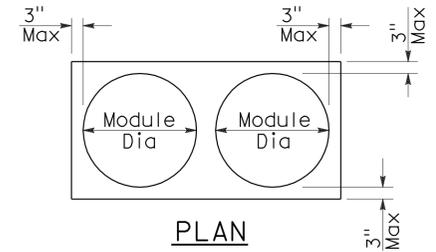
ARRAY 'TB11'

Approach speed less than 45 mph

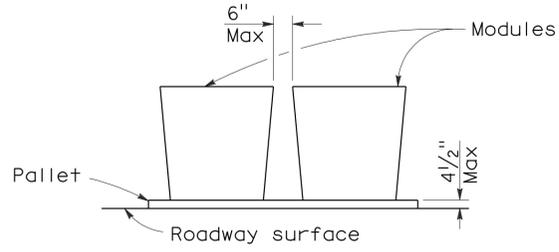


ARRAY 'TB14'

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

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 91 | Var | 15 | 22 |

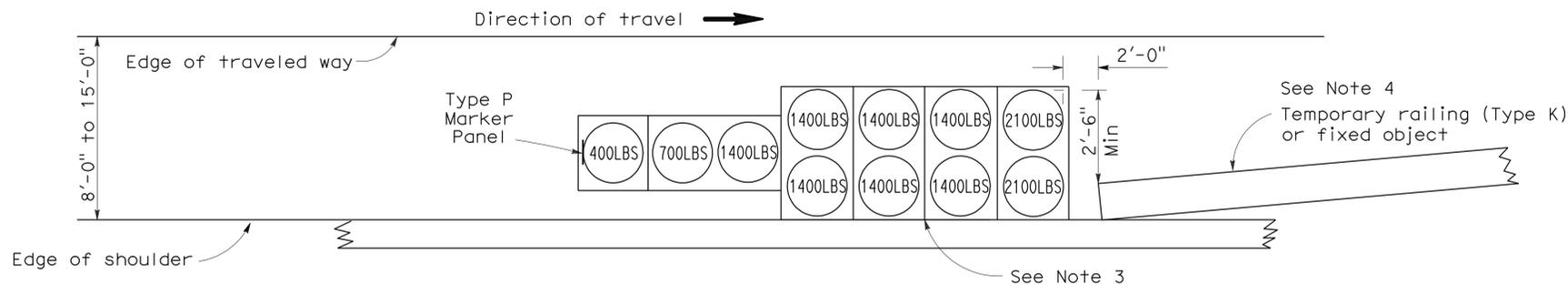
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

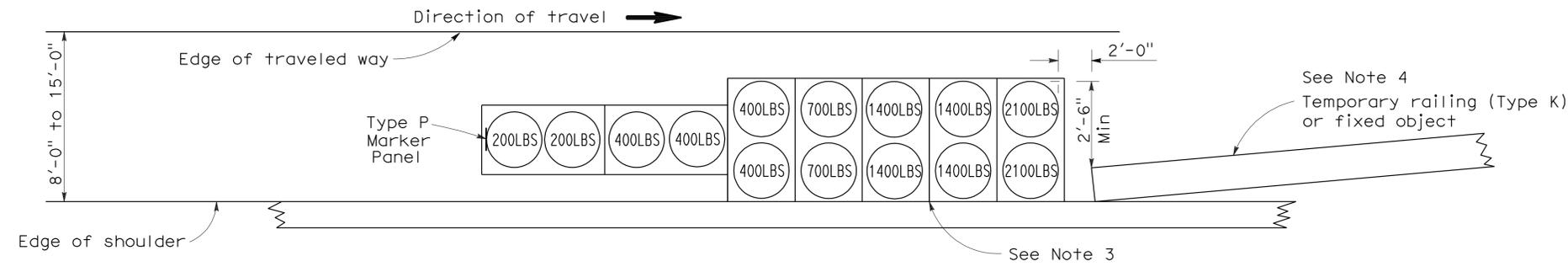
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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.

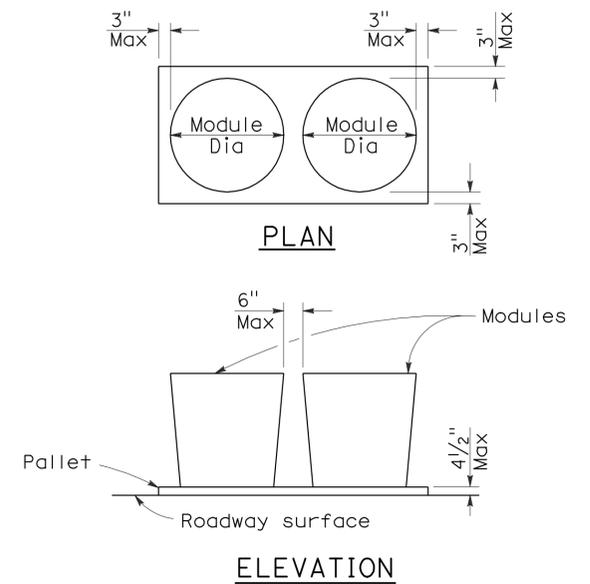
To accompany plans dated 2-1-10



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (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.
- All sand weights are nominal.
- 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.
- 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.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- 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.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- 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

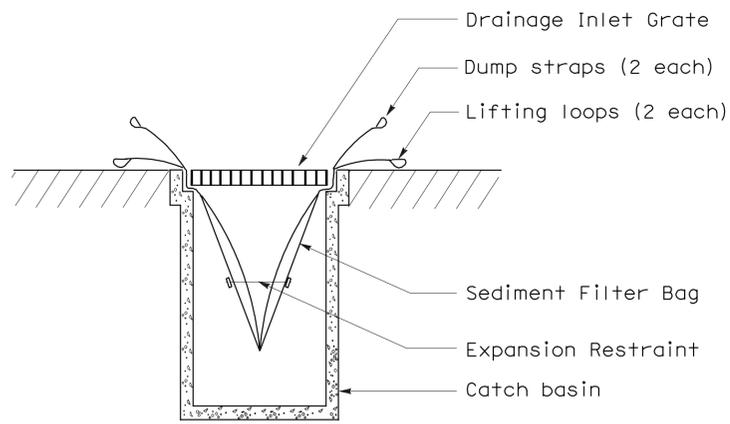
2006 REVISED STANDARD PLAN RSP T2

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 12 | Ora | 91 | Var | 16 | 22 |

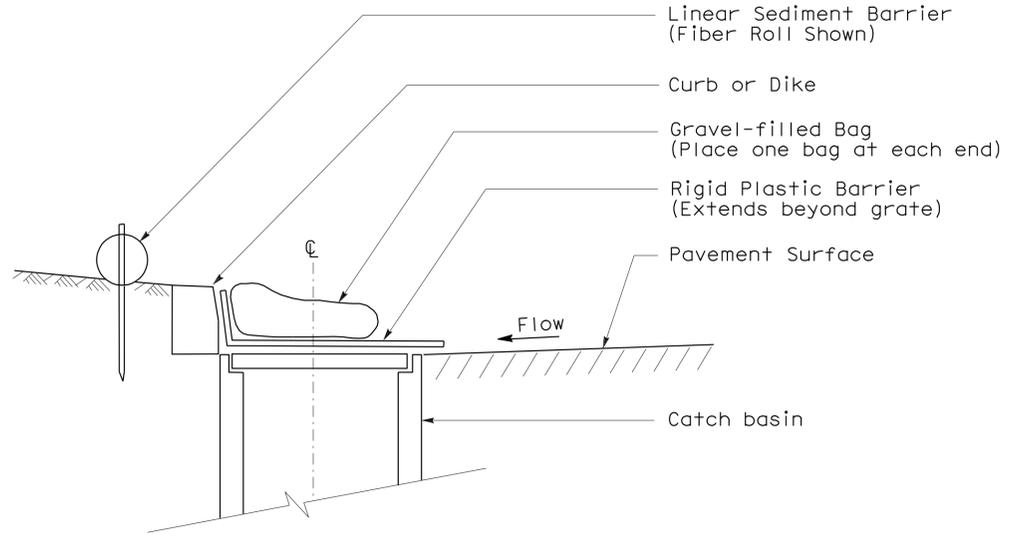
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



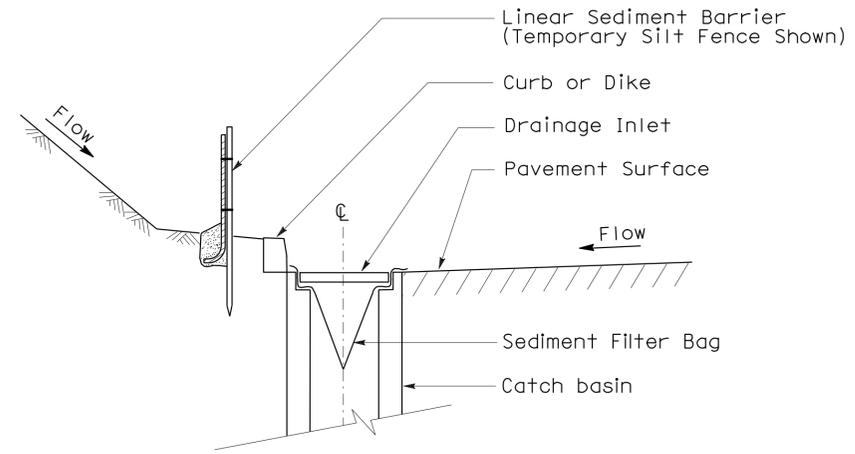
To accompany plans dated 2-1-10



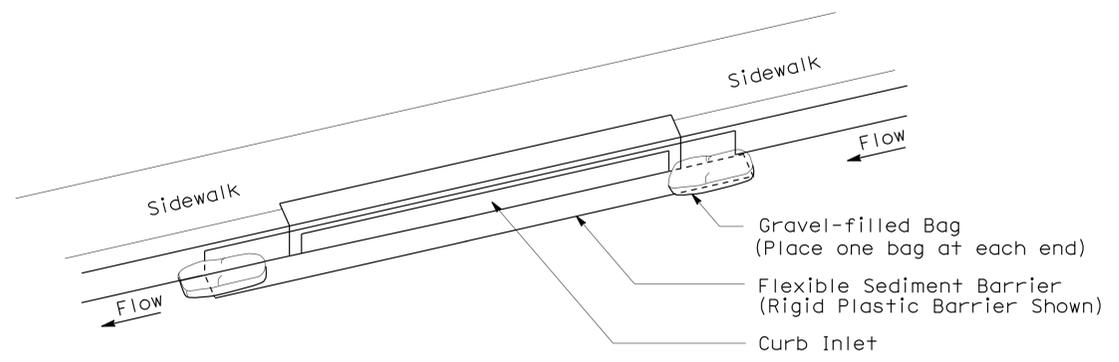
SECTION B-B
SEDIMENT FILTER BAG DETAIL



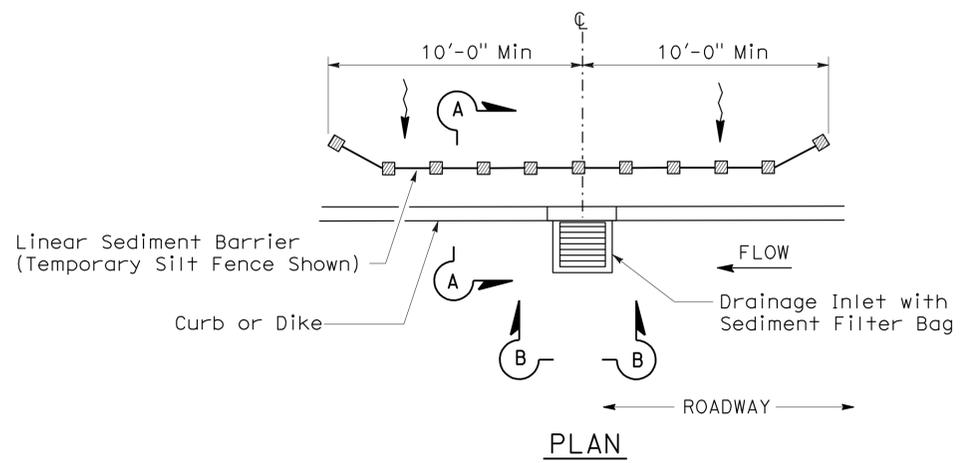
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 17 | 22 |

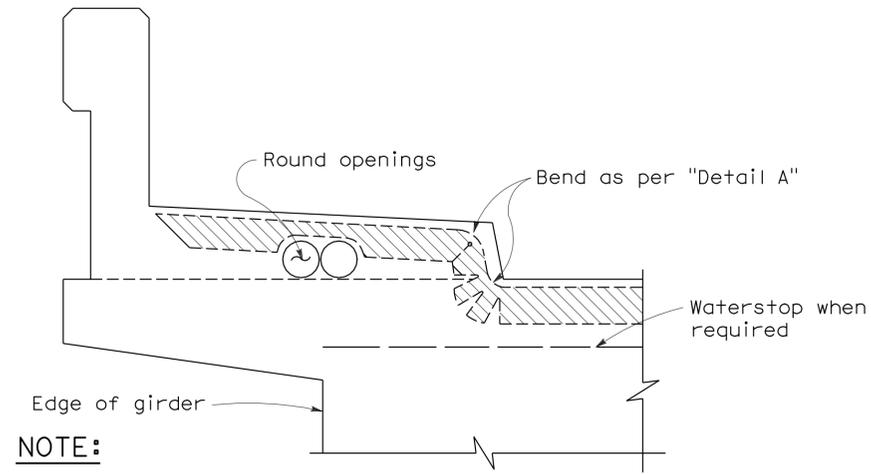
REGISTERED CIVIL ENGINEER

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.

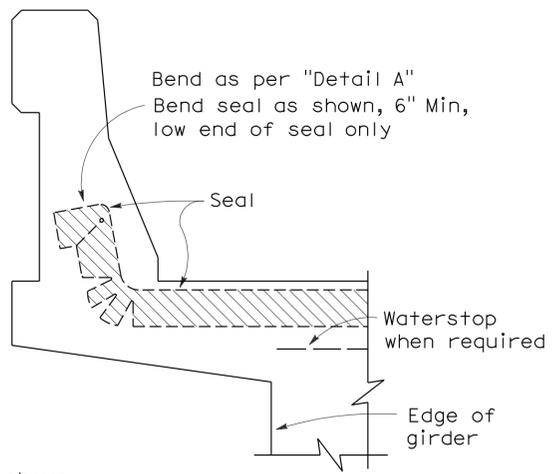
To accompany plans dated 2-1-10

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

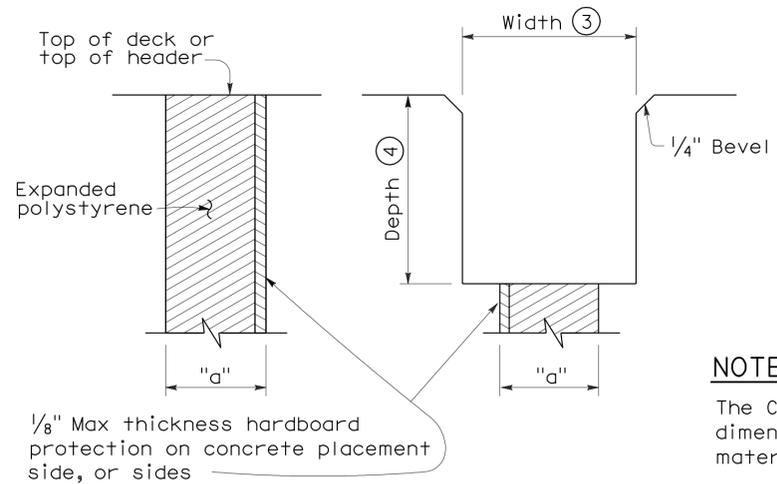


NOTE:
Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



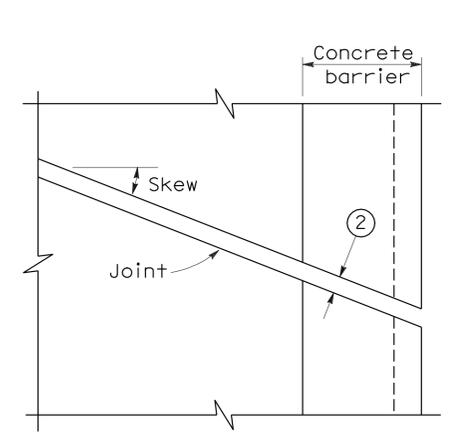
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

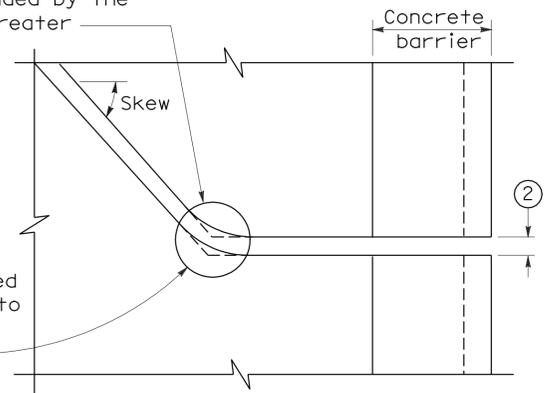
NOTE:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



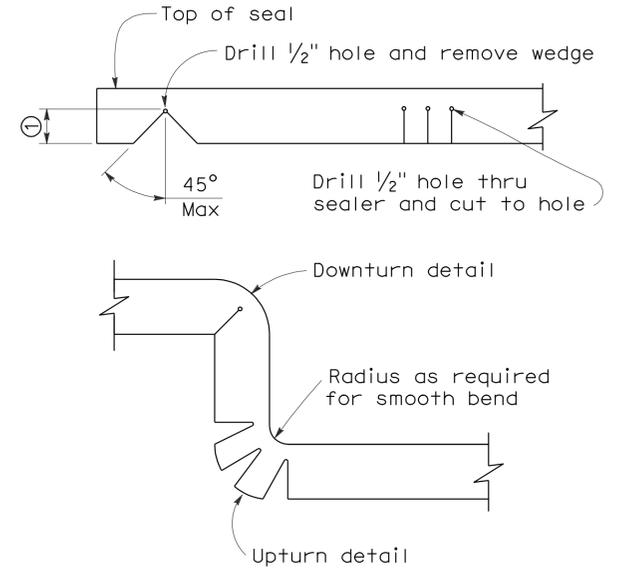
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



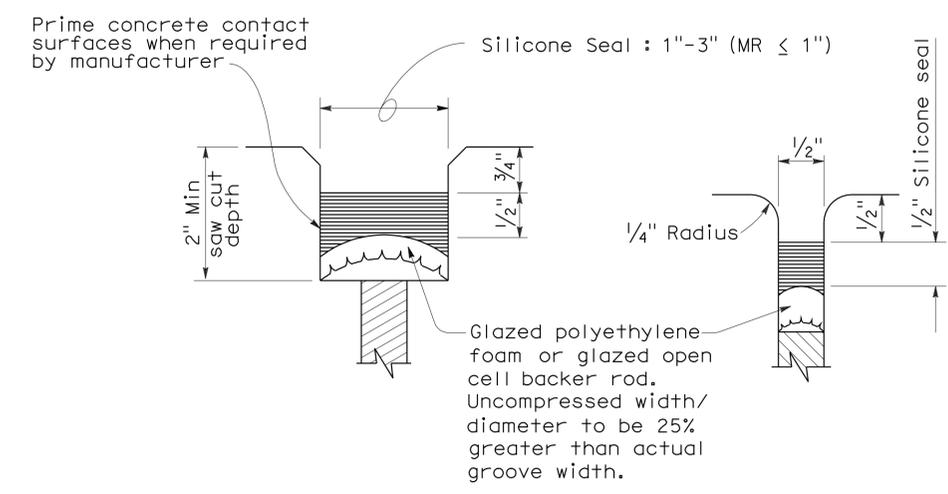
DETAIL A

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" 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.
 - Opening in barrier to match width of sawn deck joint.
 - Sawcut groove widths shall be as ordered by the Engineer.
 - 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 (W₂) plus dimensions shown.
 - MR (movement rating) as shown on other plan sheets.
 - 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 | 1 1/2" | 1 1/4" | 3/4" |
| | CIP/PS | 1 1/4" | 1" | 1/2" |
| 1 1/2" | All except CIP/PS | 1 1/4" | 1" | 1/2" |
| | CIP/PS | 1" | 3/4" | 1/2" |
| 1" | All except CIP/PS | 1" | 3/4" | 1/2" |
| | CIP/PS | 3/4" | 1/2" | 1/2" |
| 1/2" | All except CIP/PS | 3/4" | 3/4" | 1/2" |
| | CIP/PS | 1/2" | 1/2" | 1/2" |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
NO SCALE

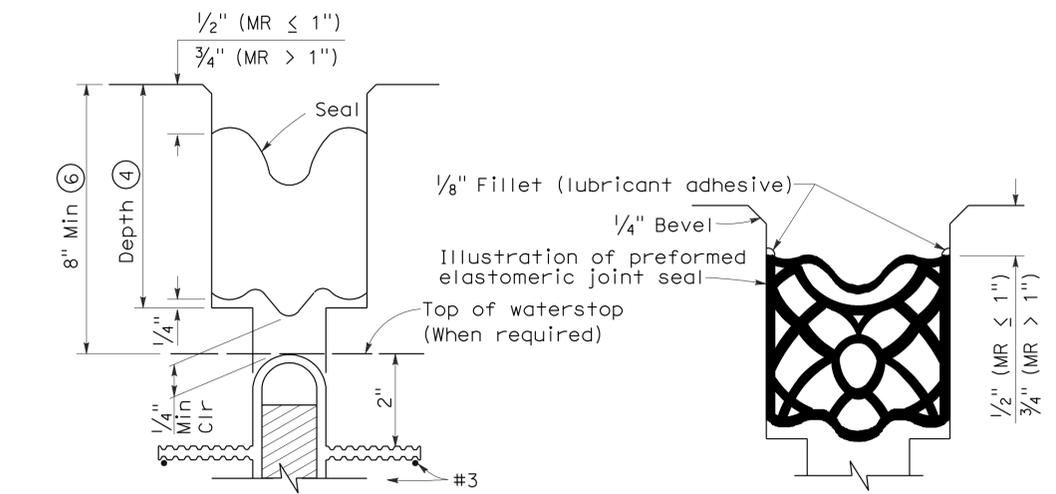


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

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

| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 18 | 22 |

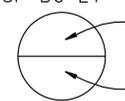
REGISTERED CIVIL ENGINEER DATE 11/25/09
 PLANS APPROVAL DATE 2-1-10
 No. C69896
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA
 Mazin S. Ibrahim

INDEX TO PLANS

| SHEET NO. | TITLE |
|-----------|-----------------------------|
| 1 | GENERAL PLAN NO. 1 |
| 2 | GENERAL PLAN NO. 2 |
| 3 | GENERAL PLAN NO. 3 |
| 4 | MISCELLANEOUS DETAILS NO. 1 |
| 5 | MISCELLANEOUS DETAILS NO. 2 |

STANDARD PLANS DATED MAY 2006

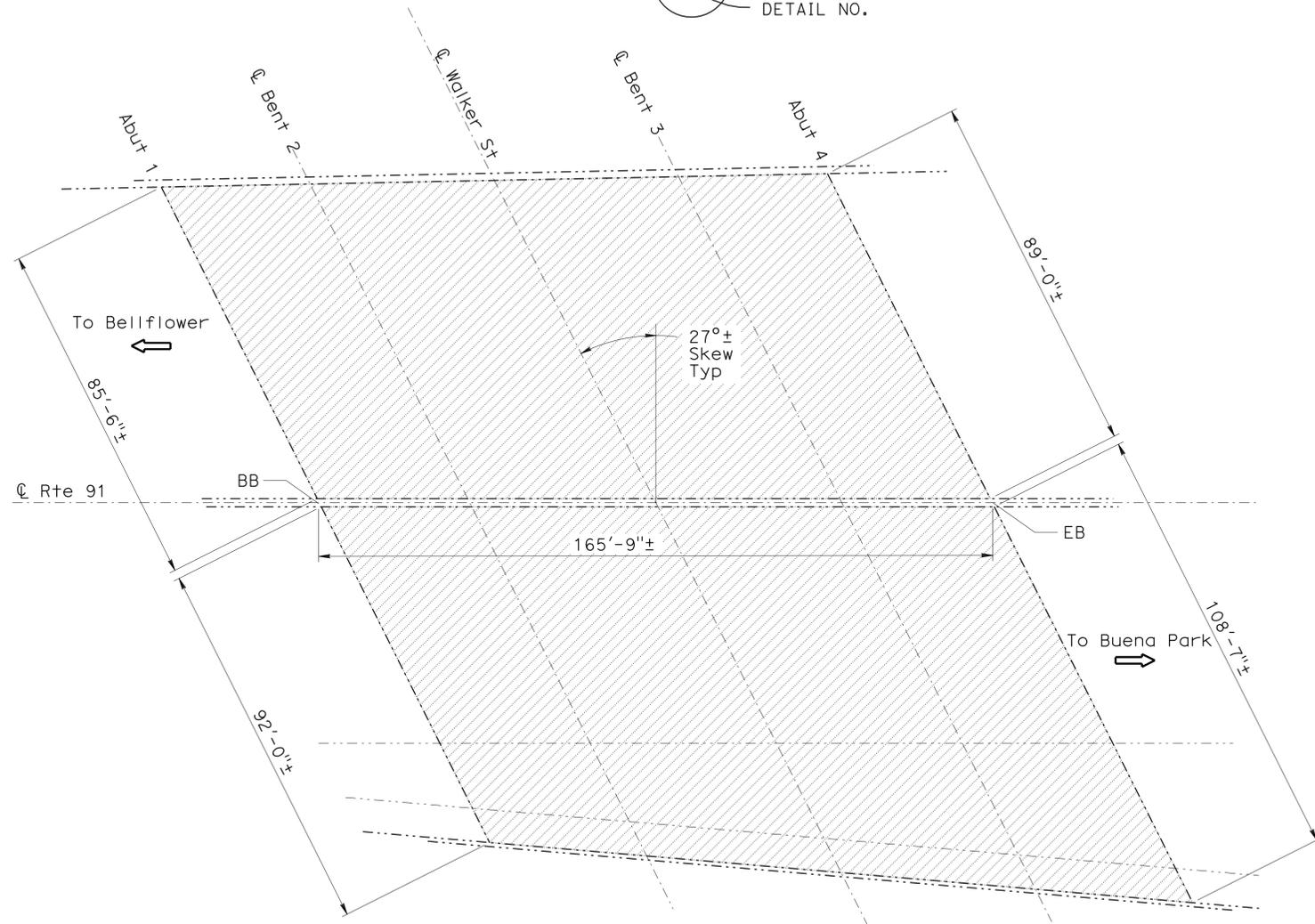
| SHEET NO. | TITLE |
|-----------|---|
| A10A | ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2) |
| A10B | ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2) |
| A10C | SYMBOLS (SHEET 1 OF 2) |
| A10D | SYMBOLS (SHEET 2 OF 2) |
| RSP B6-21 | JOINT SEALS (MAXIMUM MOVEMENT RATING-2") |



DETAIL NO.

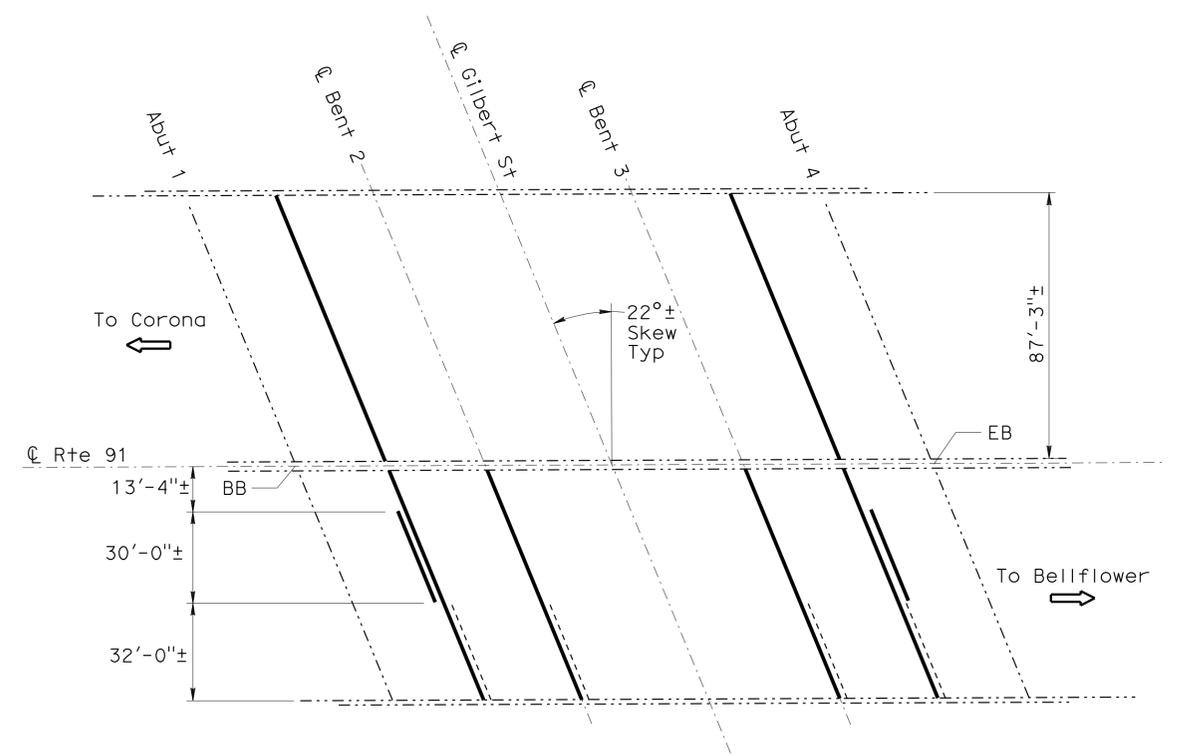
LEGEND:

- Indicates existing.
- ➔ Indicates direction of traffic.
- /— Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.
- ▨ Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.
- ==== Sawcut to form 19mm wide by 50mm deep opening.



WALKER STREET UC

Br No. 55-0308, Rte 91, PM R0.28
1" = 20'



GILBERT STREET UC

Br No. 55-0287, Rte 91, PM R2.9
1" = 30'



WALKER STREET UC BRIDGE NO. 55-0308

QUANTITIES

| | | |
|--|--------|------|
| REMOVE UNSOUND CONCRETE | 78 | CF |
| CLEAN BRIDGE DECK | 31,086 | SQFT |
| RAPID SETTING CONCRETE (PATCH) | 78 | CF |
| TREAT BRIDGE DECK | 31,086 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 389 | GAL |
| PUBLIC SAFETY PLAN | LUMP | SUM |

GILBERT STREET UC BRIDGE NO. 55-0287

QUANTITIES

| | | |
|--------------------------------|-----|----|
| REMOVE UNSOUND CONCRETE | 4 | CF |
| CLEAN EXPANSION JOINT | 584 | LF |
| RAPID SETTING CONCRETE (PATCH) | 4 | CF |
| JOINT SEAL (MR 1") | 584 | LF |

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

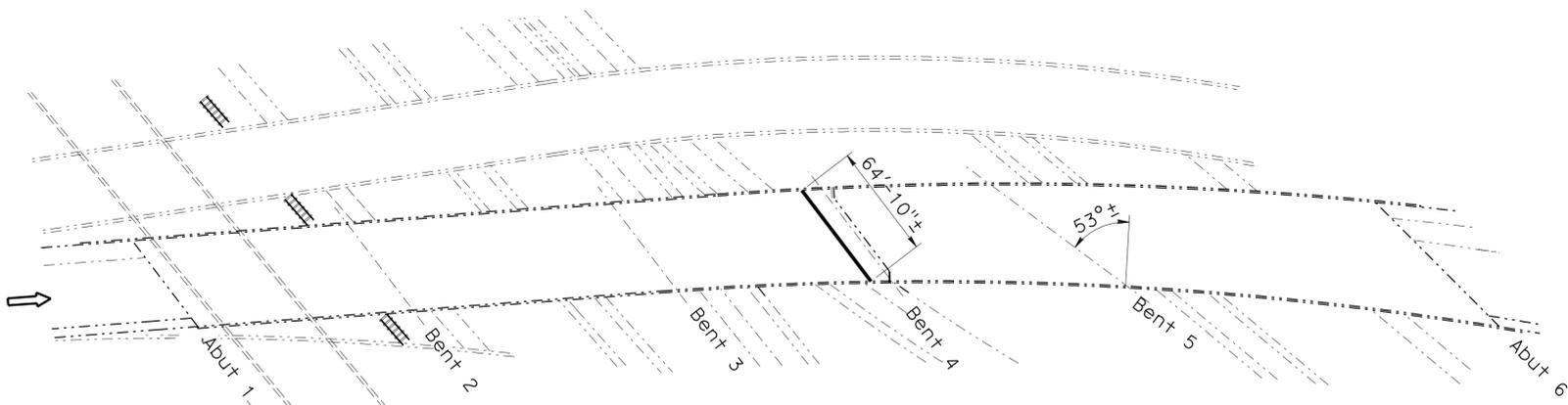
| | | | | | | | |
|---|------------|------------------|-----------------------|--------------------|---------------------|--------------------------------------|--------------------------|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED HongTien Tran | LOAD FACTOR DESIGN | BY Tom Dang | LIVE LOADING: AND PERMIT DESIGN LOAD | CHECKED Mazin Ibrahim |
| | DETAILS | BY Tom Dang | CHECKED Mazin Ibrahim | LAYOUT | BY Tom Dang | PLANS AND SPECS COMPARED | CHECKED Jennifer Ramirez |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED HongTien Tran | SPECIFICATIONS | BY Jennifer Ramirez | | |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies
ROUTE 91 BRIDGES
GENERAL PLAN NO. 1

USERNAME => hrmikes DATE PLOTTED => 02-FEB-2010 TIME PLOTTED => 08:45

| | | | | | |
|--|--------|-------|--------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 19 | 22 |
| | | | 11/03/09 | | |
| | | | REGISTERED CIVIL ENGINEER DATE | | |
| | | | 2-1-10 | | |
| | | | PLANS APPROVAL DATE | | |
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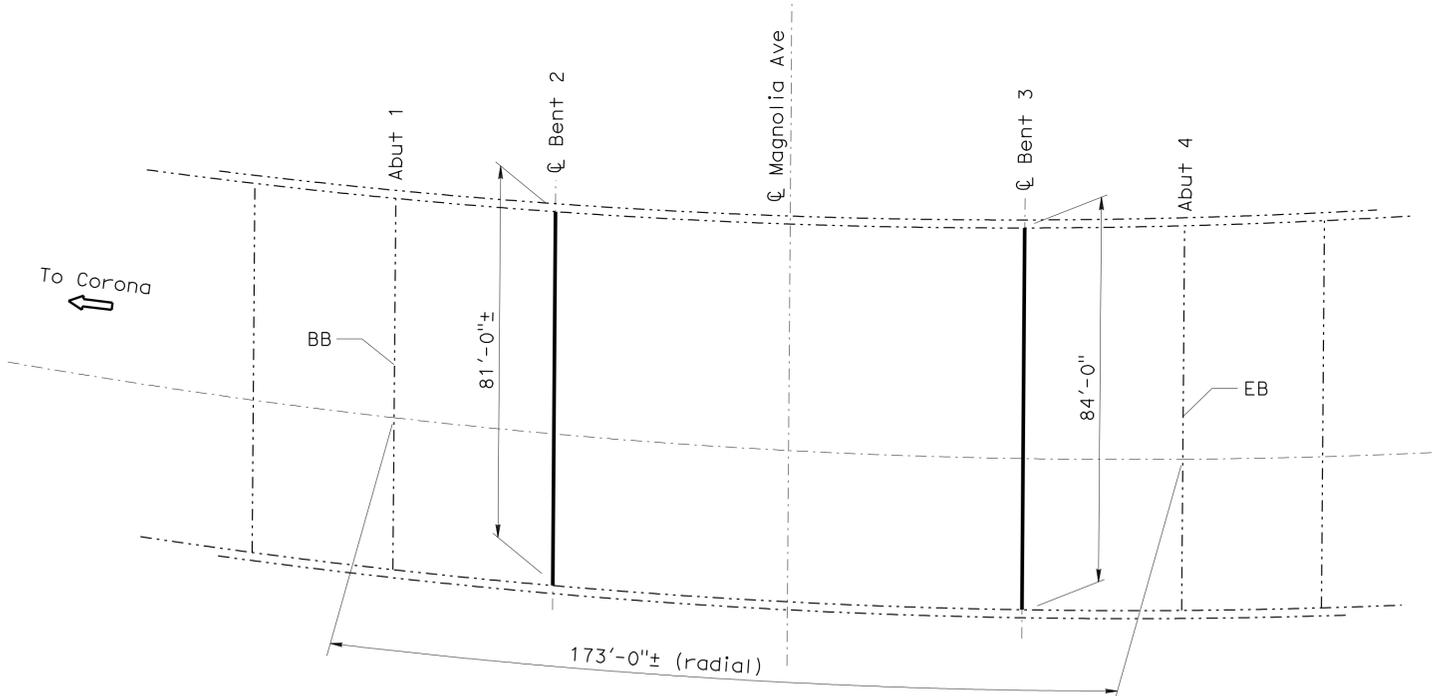
W91/5 SEPARATION & OH
 Br No. 55-0293L, Rte 91, PM R3.56
 NO SCALE

W91/5 SEPARATION & OH QUANTITIES BRIDGE NO. 55-0293L

| | | |
|--------------------------------|----|----|
| REMOVE UNSOUND CONCRETE | 1 | CF |
| CLEAN EXPANSION JOINT | 65 | LF |
| RAPID SETTING CONCRETE (PATCH) | 1 | CF |
| JOINT SEAL (MR 2") | 65 | LF |

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.
- Indicates removal of unsound concrete and place rapid setting concrete patch. Actual area may vary and will be determined by the Engineer.

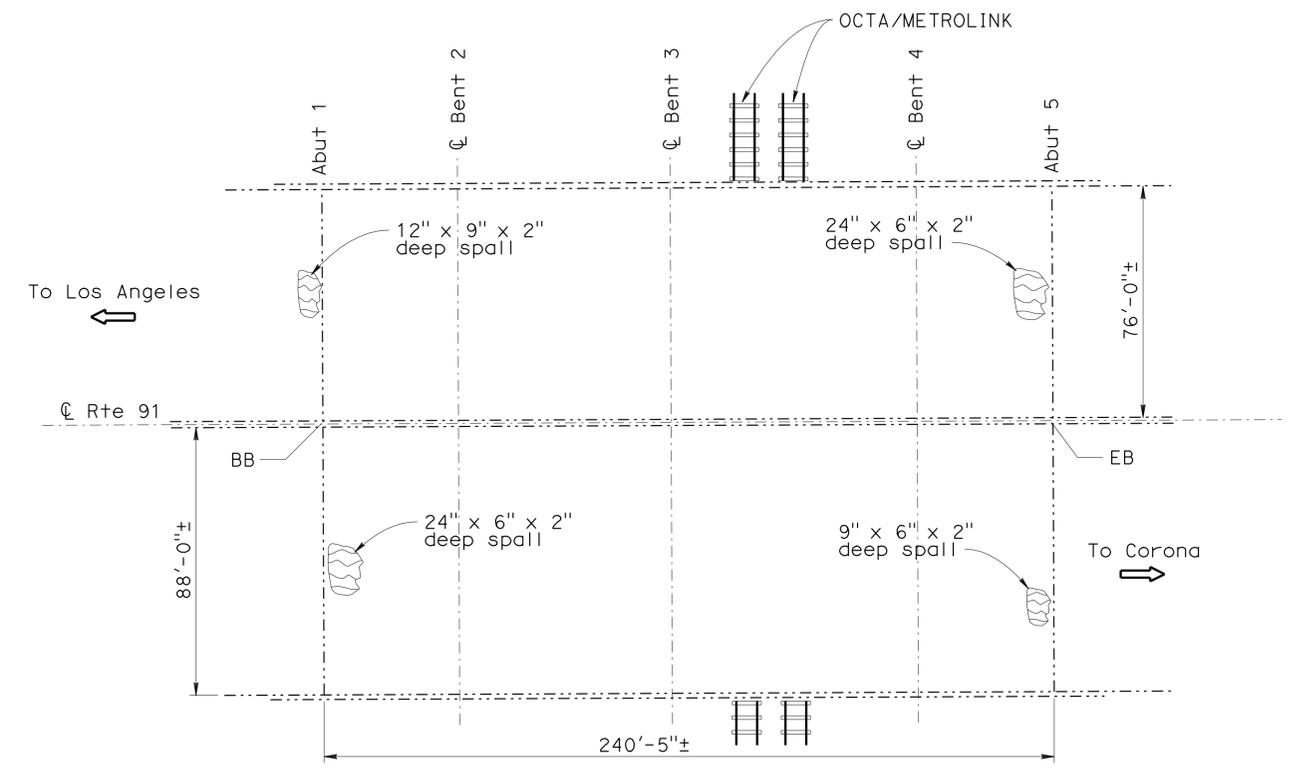


MAGNOLIA AVENUE UC
 Br No. 55-0296R, Rte 91, PM R3.85
 1" = 20'

MAGNOLIA AVENUE UC QUANTITIES BRIDGE NO. 55-0296R

| | | |
|--------------------------------|-----|----|
| REMOVE UNSOUND CONCRETE | 2 | CF |
| CLEAN EXPANSION JOINT | 165 | LF |
| RAPID SETTING CONCRETE (PATCH) | 2 | CF |
| JOINT SEAL (MR 1") | 165 | LF |

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



NORTH ANAHEIM OH
 Br No. 55-0216, Rte 91, PM 4.01
 1" = 30'

NORTH ANAHEIM OH QUANTITIES BRIDGE NO. 55-0216

| | | |
|--------------------------------|---|----|
| REMOVE UNSOUND CONCRETE | 1 | CF |
| RAPID SETTING CONCRETE (PATCH) | 1 | CF |

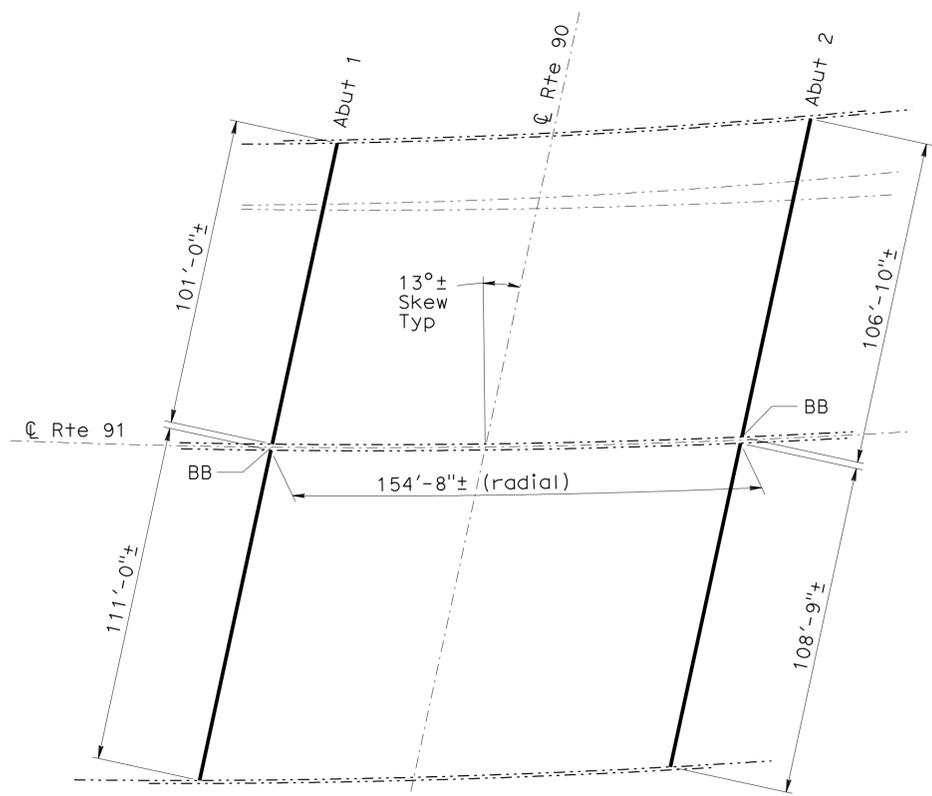
| | | | | | |
|------------|------------------|-----------------------|--------------------|---------------------|---|
| DESIGN | By Mazin Ibrahim | CHECKED HongTien Tran | LOAD FACTOR DESIGN | BY Tom Dang | LIVE LOADING: AND PERMIT DESIGN LOAD |
| DETAILS | By Tom Dang | CHECKED Mazin Ibrahim | LAYOUT | BY Tom Dang | CHECKED Mazin Ibrahim |
| QUANTITIES | By Mazin Ibrahim | CHECKED HongTien Tran | SPECIFICATIONS | BY Jennifer Ramirez | PLANS AND SPECS COMPARED Jennifer Ramirez |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
 POST MILE Varies
ROUTE 91 BRIDGES
GENERAL PLAN NO. 2

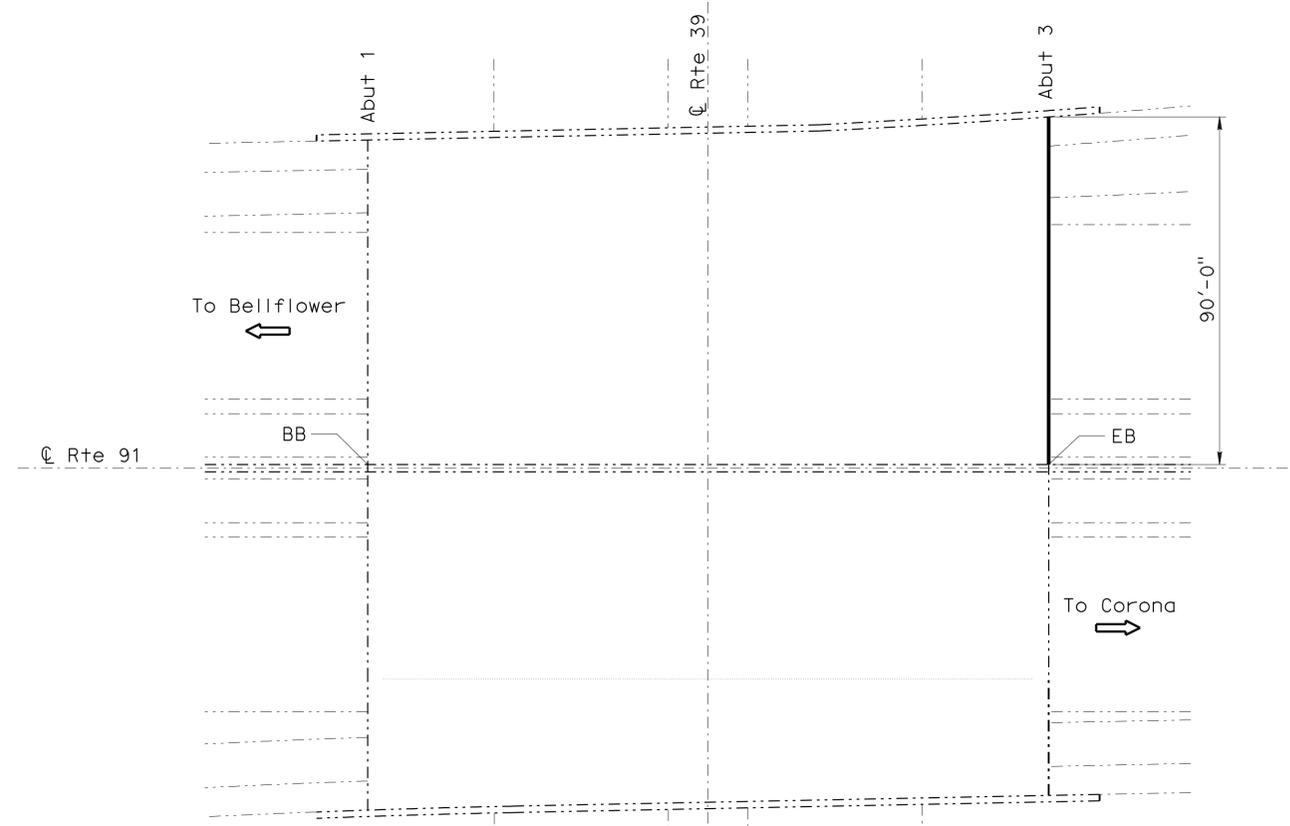
| | | | | | |
|------|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 20 | 22 |

11/03/09
 REGISTERED CIVIL ENGINEER DATE
 2-1-10
 PLANS APPROVAL DATE
 No. C69896
 Exp. 09/30/10
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 MAZIN S. IBRAHIM
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ROUTE 91/90 SEPARATION

Br No. 55-0474, Rte 91, PM R11.53
1" = 30'



ROUTE 91/39 SEPARATION

Br No. 55-0303, Rte 91, PM 2.61
NO SCALE



ROUTE 91/90 SEPARATION QUANTITIES

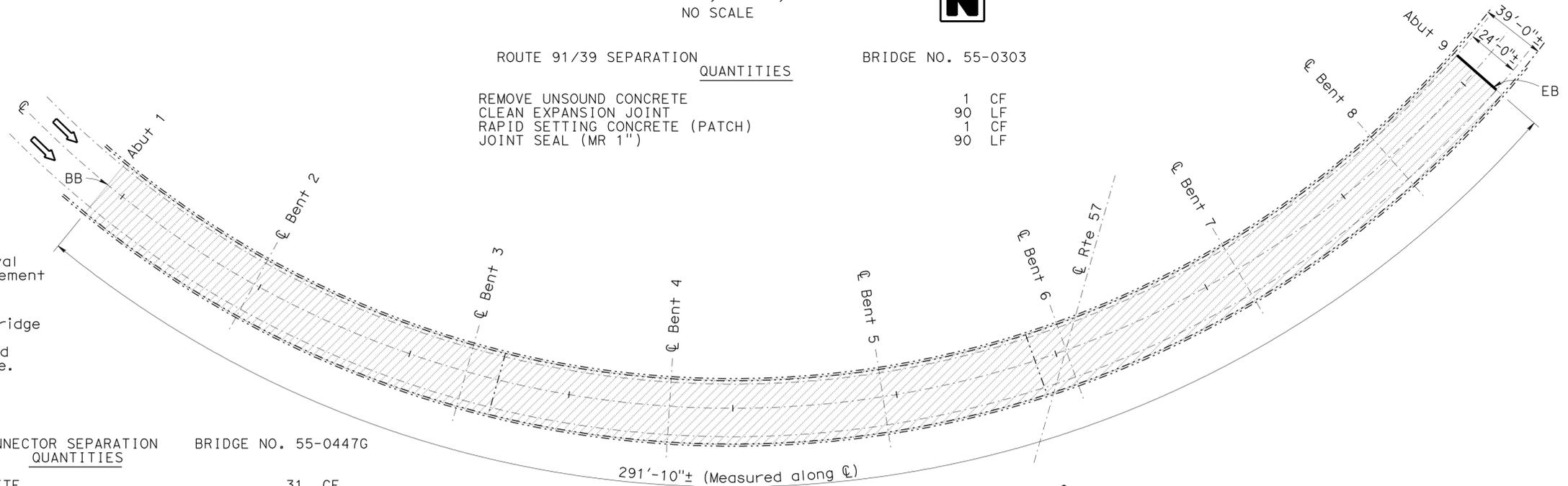
| | | |
|--------------------------------|-----|----|
| REMOVE UNSOUND CONCRETE | 3 | CF |
| CLEAN EXPANSION JOINT | 428 | LF |
| RAPID SETTING CONCRETE (PATCH) | 3 | CF |
| JOINT SEAL (MR 2") | 428 | LF |

ROUTE 91/39 SEPARATION QUANTITIES

| | | |
|--------------------------------|----|----|
| REMOVE UNSOUND CONCRETE | 1 | CF |
| CLEAN EXPANSION JOINT | 90 | LF |
| RAPID SETTING CONCRETE (PATCH) | 1 | CF |
| JOINT SEAL (MR 1") | 90 | LF |

LEGEND:

- Indicates existing.
- Indicates direction of traffic.
- Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.
- Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.



E91-N57/91 & 57 CONNECTOR SEPARATION

BRIDGE NO. 55-0447G

| | | |
|--|--------|------|
| REMOVE UNSOUND CONCRETE | 31 | CF |
| CLEAN BRIDGE DECK | 11,382 | SQFT |
| CLEAN EXPANSION JOINT | 24 | LF |
| RAPID SETTING CONCRETE (PATCH) | 31 | CF |
| JOINT SEAL (MR 1") | 24 | LF |
| TREAT BRIDGE DECK | 11,382 | SQFT |
| FURNISH BRIDGE DECK TREATMENT MATERIAL | 142 | GAL |

E91-N57/91 & 57 CONNECTOR SEPARATION

Br No. 55-0447G, Rte 91, PM 5.96
1" = 30'



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

| | | | | | | | | |
|---|------------|------------------|-----------------------|--------------------|--------------------------------------|---|---|--|
| TONY D. BRAKE DESIGN ENGINEER | DESIGN | BY Mazin Ibrahim | CHECKED HongTien Tran | LOAD FACTOR DESIGN | LIVE LOADING: AND PERMIT DESIGN LOAD | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. | ROUTE 91 BRIDGES GENERAL PLAN NO. 3 |
| | DETAILS | BY Tom Dang | CHECKED Mazin Ibrahim | LAYOUT | BY Tom Dang | | POST MILE | |
| | QUANTITIES | BY Mazin Ibrahim | CHECKED HongTien Tran | SPECIFICATIONS | BY Jennifer Ramirez | | PLANS AND SPECS COMPARED Jennifer Ramirez | |

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 12 EA OK3601 DISREGARD PRINTS BEARING EARLIER REVISION DATES 4-01-09 7-02-09 7-15-09 SHEET 03 OF 05

| | | | | | |
|---|--------|-------|---------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 21 | 22 |
| | | | 11/03/09 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | 2-1-10 | | |
| | | | PLANS APPROVAL DATE | | |
| | | | No. C69896 | | |
| | | | Exp. 09/30/10 | | |
| | | | CIVIL | | |
| <small>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.</small> | | | | | |

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) | |
|------------------------------|---------------|----------|-----------------------|--------------------|--------------------|--|---------------------------------------|---------------------------------------|--------------------------------------|---|
| GILBERT STREET UC | 55-0287 | Abut 1 | - | 1 | 210 | NO | 6 | 3 | 6 | 5 |
| | | Bent 2 | - | 1 | 82 | NO | 6 | 3 | 6 | 5 |
| | | Bent 3 | - | 1 | 82 | NO | 6 | 3 | 6 | 5 |
| | | Abut 4 | - | 1 | 210 | NO | 6 | 3 | 6 | 5 |
| W91/5 SEPARATION & OH | 55-0293L | Bent 4 | - | 2 | 65 | YES | 12 | 3 | 6 | 5 |
| MAGNOLIA AVE UC | 55-0296R | Bent 2 | - | 1 | 81 | NO | 6 | 3 | 6 | 5 |
| | | Bent 3 | - | 1 | 84 | NO | 6 | 3 | 6 | 5 |
| ROUTE 91/90 SEPARATION | 55-0474 | Abut 1 | - | 2 | 212 | YES | 12 | 3 | 6 | 5 |
| | | Abut 2 | - | 1 1/2 | 216 | YES | 12 | 3 | 6 | 5 |
| ROUTE 91/39 SEPARATION | 55-0303 | Abut 3 | = | 1 | 90 | NO | 6 | 3 | 6 | 5 |
| E91/N57 CONNECTOR SEPARATION | 55-0447G | Abut 9 | - | 1 | 24 | YES | 12 | 3 | 6 | 5 |

NOTES:

The following notes apply to JOINT SEAL TYPE A:

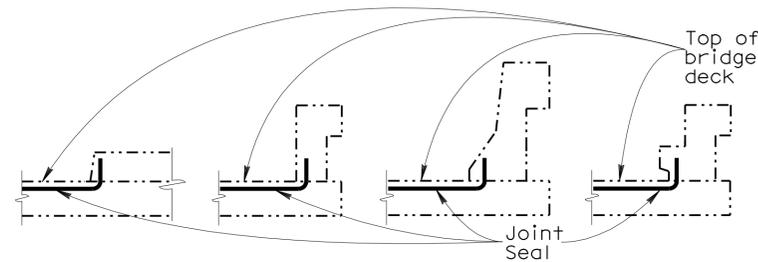
Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- 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.
- W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - 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.
- 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.

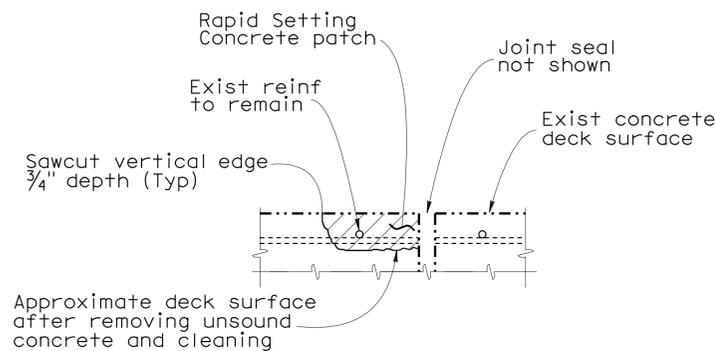


BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

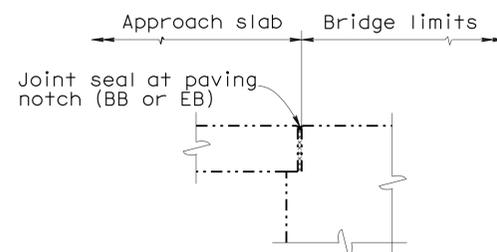
Note: Details shown for illustration purposes only.

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

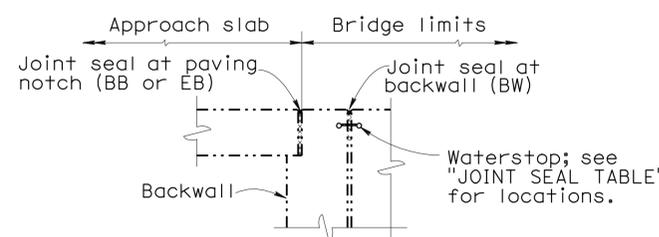


JOINT SPALL REPAIR DETAIL

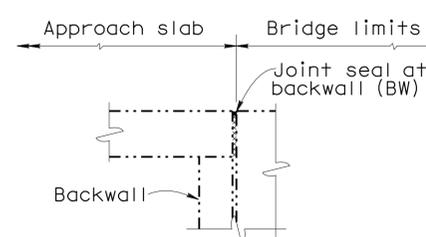
Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



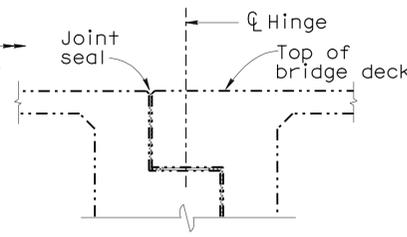
DIAPHRAGM ABUTMENT



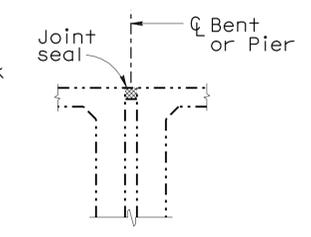
ABUTMENT WITH BACKWALL AND PAVING NOTCH



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 Mazin Ibrahim | CHECKED HongTien Tran |
| DETAILS | BY Tom Dang | CHECKED Mazin Ibrahim |
| QUANTITIES | BY Mazin Ibrahim | CHECKED HongTien Tran |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

| | |
|------------|---------|
| BRIDGE NO. | Various |
| POST MILE | Varies |

ROUTE 91 BRIDGES
MISCELLANEOUS DETAILS NO. 1

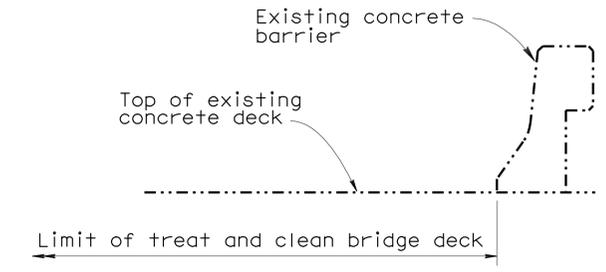
| | | | | | |
|---|--------|-------|---------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 12 | Ora | 91 | Var | 22 | 22 |
| | | | 11/03/09 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | 2-1-10 | | |
| | | | PLANS APPROVAL DATE | | |
| | | | No. C69896 | | |
| | | | Exp. 09/30/10 | | |
| | | | CIVIL | | |
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DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

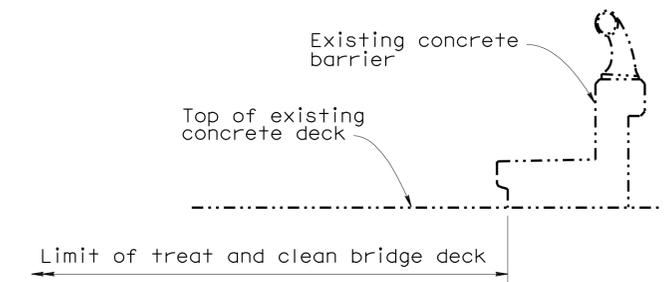
| BRIDGE NAME | BRIDGE NUMBER | APPROXIMATE AREA DAMAGED (%) | APPROXIMATE DEPTH (INCHES) |
|------------------------------------|---------------|------------------------------|----------------------------|
| WALKER STREET UC | 55-0308 | 1 | 3 |
| E91-N57/91&57 CONNECTOR SEPARATION | 55-0447G | 1 | 3 |

DECK REPAIR NOTES:

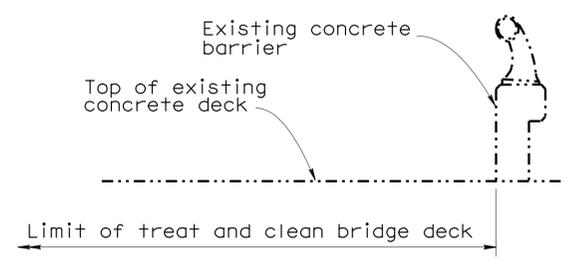
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- When existing transverse reinforcement is exposed in the deck surface,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



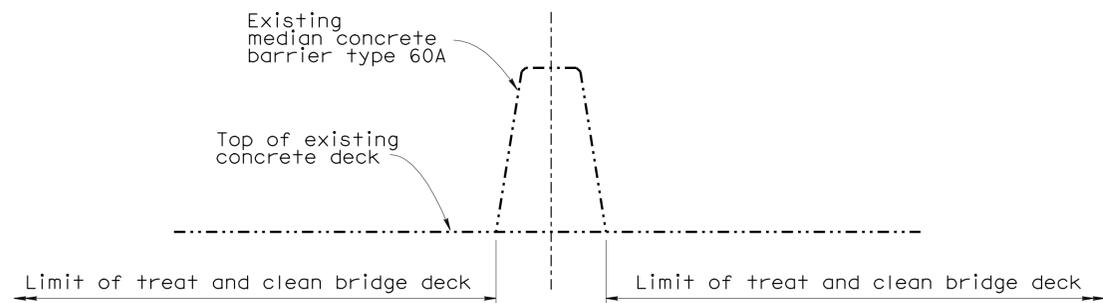
EOD BARRIER



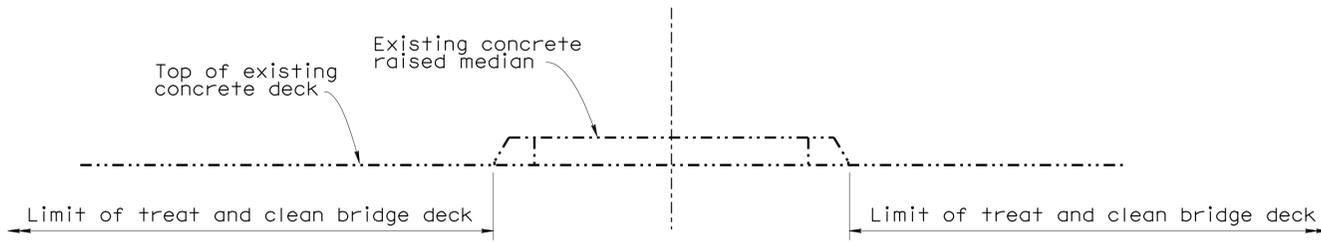
SIDEWALK BARRIER TYPE 2



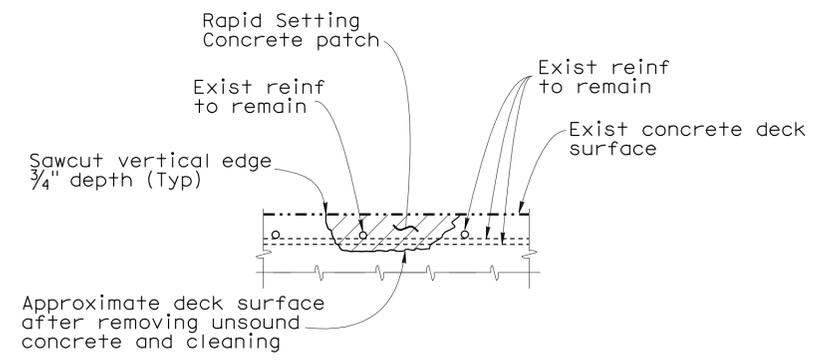
SIDEWALK BARRIER TYPE 1



MEDIAN BARRIER



RAISED MEDIAN



DECK DAMAGE REPAIR DETAIL

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

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

TYPICAL LIMITS OF DECK WORK

NO SCALE

| | | | | | | | |
|---|--|---|-----------------------|---|-------------------------|-------|----|
| DESIGN BY Mazin Ibrahim CHECKED HongTien Tran DETAILS BY Tom Dang CHECKED Mazin Ibrahim QUANTITIES BY Mazin Ibrahim CHECKED HongTien Tran | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN | BRIDGE NO. Various | ROUTE 91 BRIDGES | | | |
| | | | POST MILE Varies | MISCELLANEOUS DETAILS NO. 2 | | | |
| | | | | | REVISION DATES | SHEET | OF |
| STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05) | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | CU 12 EA 0K3601 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | 4-01-09 7-02-09 7-15-09 | 05 | 05 |