

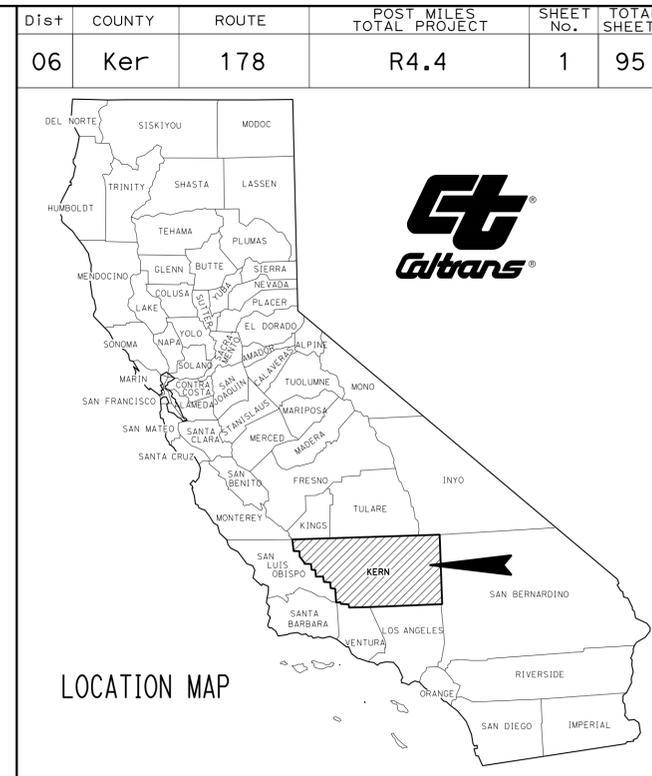
INDEX OF PLANS

| SHEET No. | DESCRIPTION |
|-----------------|---|
| 1 | TITLE AND LOCATION MAP |
| 2 | LAYOUTS |
| 3-4 | CONSTRUCTION DETAILS |
| 5-7 | DRAINAGE PLANS, PROFILES AND QUANTITIES |
| 8 | CONSTRUCTION AREA SIGNS |
| 9-10 | TRAFFIC HANDLING PLANS AND QUANTITIES |
| 11 | DETOUR PLANS |
| 12 | SIGN DETAILS AND QUANTITIES |
| 13-15 | SPECIAL DESIGN SIGNS |
| 16 | SUMMARY OF QUANTITIES |
| 17 | MAINTAIN EXISTING PLANTED AREAS |
| 18 | IRRIGATION SPRINKLER SCHEDULE |
| 19 | IRRIGATION REMOVAL PLANS |
| 20 | IRRIGATION PLANS |
| 21 | PLAN LIST |
| 22 | PLANTING PLANS |
| 23-24 | LANDSCAPE QUANTITIES |
| 25-28 | LIGHTING AND ELECTRICAL QUANTITIES |
| 29 | SPECIAL ELECTRICAL STRUCTURES |
| 30-54 | REVISED STANDARD PLANS |
| STRUCTURE PLANS | |
| 55-95 | SUNNY LANE POC Br No. 50-0517 |

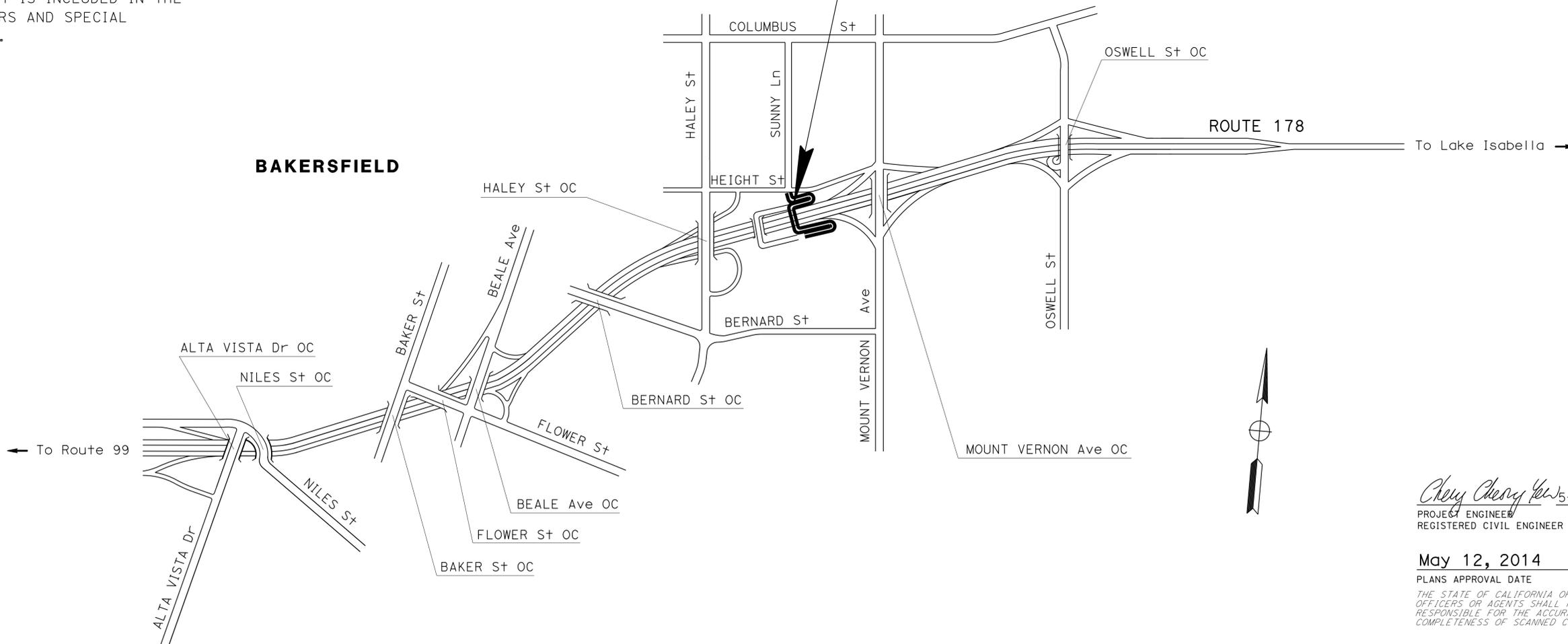
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA **ACNHP-P178(064)E**
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN KERN COUNTY IN BAKERSFIELD
AT SUNNY LANE PEDESTRIAN OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



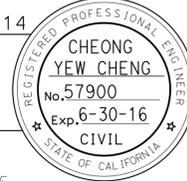
LOCATION OF CONSTRUCTION
SUNNY LANE PEDESTRIAN OVERCROSSING
Br No. 50-0334 PM R4.4



NO SCALE

PROJECT MANAGER
 HUSSEIN SENAN
 DESIGN ENGINEER
 NICHOLAS CHAN

Chery Chery Yew 5-12-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
May 12, 2014
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



| | |
|--------------|-------------------|
| CONTRACT No. | 06-OH6414 |
| PROJECT ID | 0614000265 |

DATE PLOTTED => 24-AUG-2014
 TIME PLOTTED => 1:5:09
 LAST REVISION: 05-12-14

NOTE:

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

LEGEND:

- OBJECT MARKER (TYPE P)
- I_{GF} GUARD RAILING DELINEATOR
- Temp FENCE (TYPE ESA)

CURVE DATA

| No. | R | Δ | T | L |
|-----|------|-----------|------------|--------|
| ① | 6.0' | 180°0'15" | 162688.79' | 18.85' |
| ② | 6.0' | 88°49'13" | 5.88' | 9.30' |
| ③ | 6.0' | 90°0'00" | 6.00' | 9.42' |
| ④ | 6.0' | 180°0'15" | 163408.59' | 18.85' |
| ⑤ | 6.0' | 90°0'00" | 6.00' | 9.42' |

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 2 | 95 |

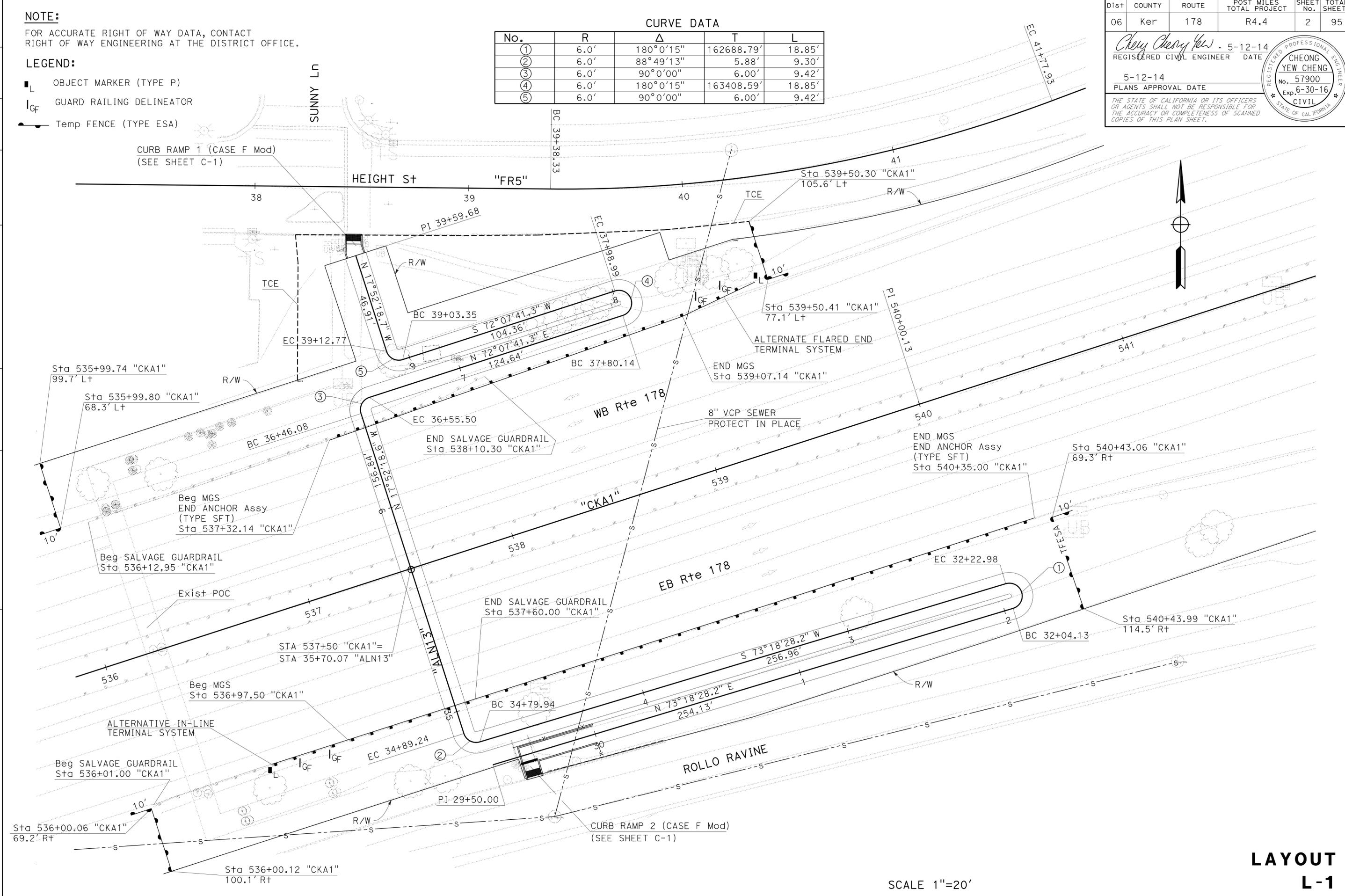
Chey Cheng Yew 5-12-14
 REGISTERED CIVIL ENGINEER DATE

5-12-14
 PLANS APPROVAL DATE

CHEONG YEW CHENG
 No. 57900
 Exp. 6-30-16
 CIVIL

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.

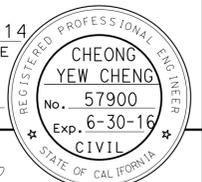
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Caltrans
 DESIGN



LAYOUT L-1

LAST REVISION DATE PLOTTED => 23-AUG-2014
 05-12-12 TIME PLOTTED => 17:33

| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 3 | 95 |
| <i>Chey Chey Yew</i> 5-12-14 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 5-12-14 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. | | | | | |



LEGEND:

- REPLACE AC SURFACING (MATCH Exist THICKNESS, 0.5' Min, 2' WIDE, UNLESS OTHERWISE SHOWN)
- DETECTABLE WARNING SURFACE
- 1' WIDE GROOVING BORDER

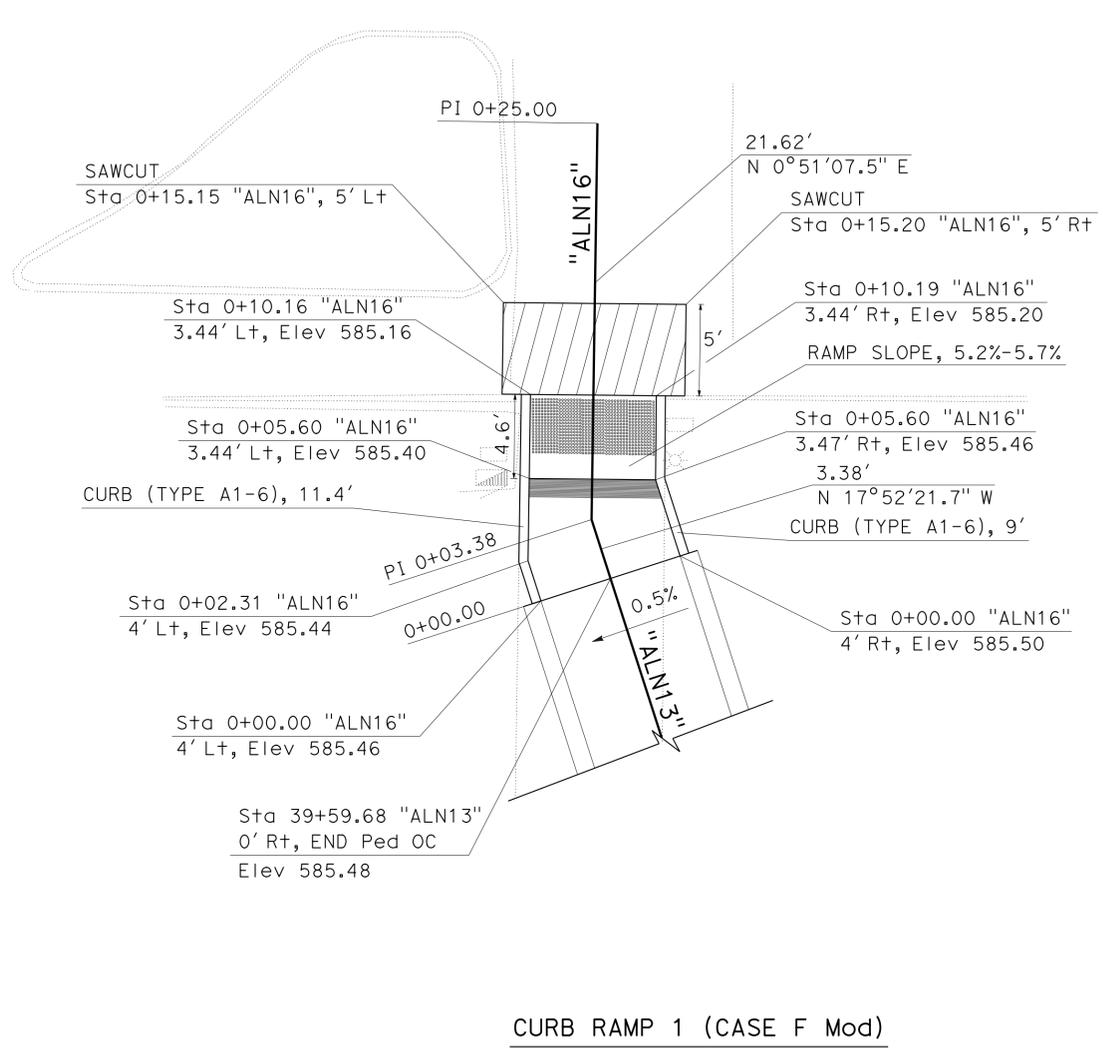
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 NICHOLAS CHAN

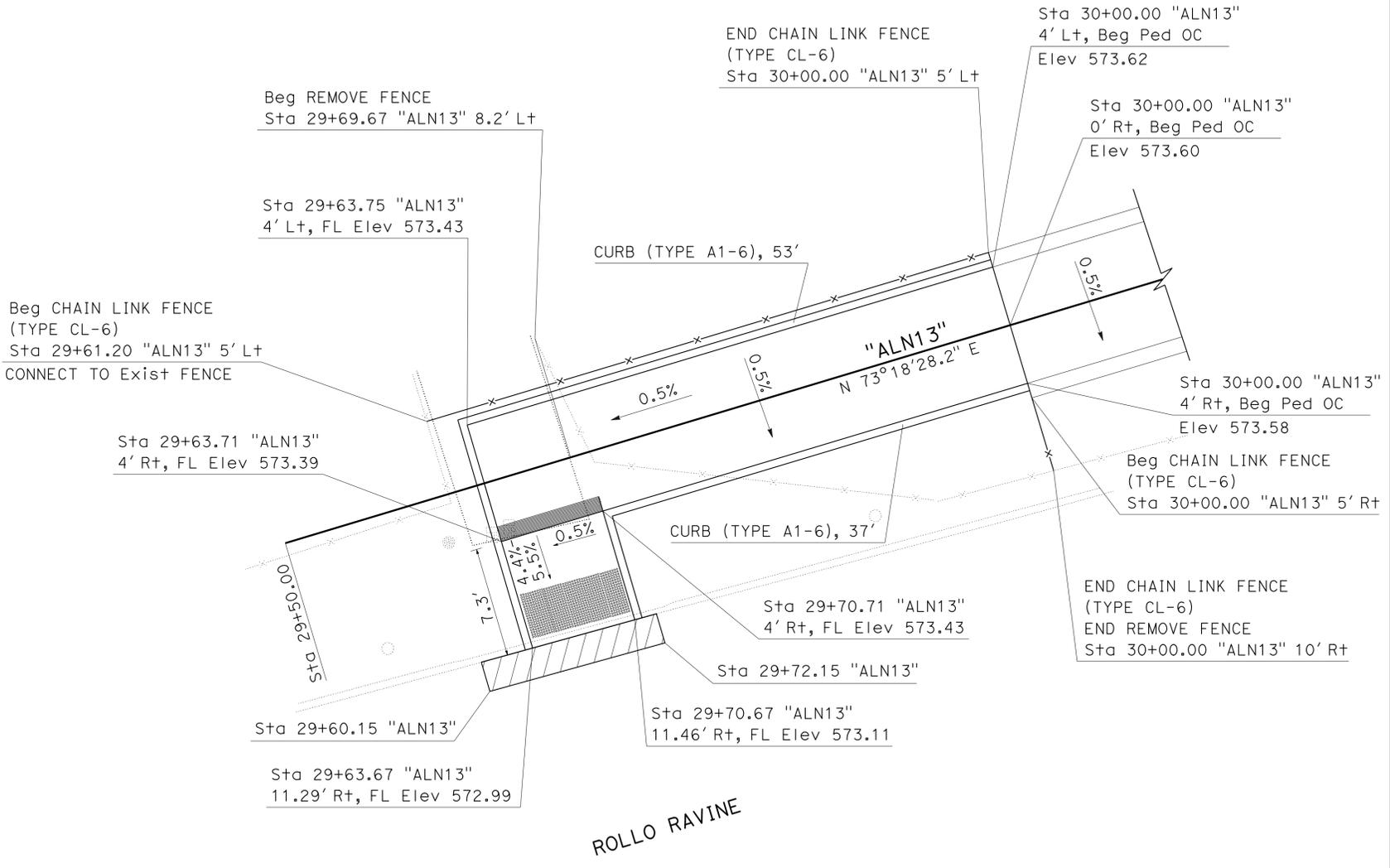
CALCULATED/DESIGNED BY
 CHEONG-YEW CHENG

INDERPAL GILL
 CHEONG-YEW CHENG

REVISED BY
 DATE REVISED



CURB RAMP 1 (CASE F Mod)



CURB RAMP 2 (CASE F Mod)

ROLLO RAVINE

NO SCALE

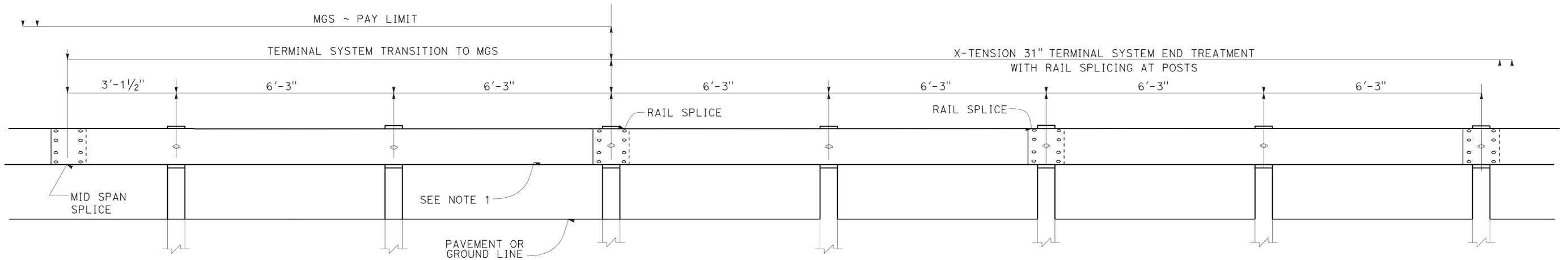
**CONSTRUCTION DETAILS
C-1**

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 4 | 95 |

Chey Cheong Yew . 5-12-14
 REGISTERED CIVIL ENGINEER DATE
 5-12-14
 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.

NOTE:
1. USE 15'-7 1/2" LENGTH RAIL.



TRANSITION DETAIL FOR X-TENSION 31" TERMINAL SYSTEM END TREATMENT WITH RAIL SPLICING AT POSTS TO MIDWEST GUARDRAIL SYSTEM

CONSTRUCTION DETAILS
NO SCALE
C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 INDERPAL GILL
 CHEONG-YEW CHENG
 REVISED BY: [blank]
 DATE REVISED: [blank]

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 5 | 95 |

Chey Cheng Yew 5-12-14
 REGISTERED CIVIL ENGINEER DATE
 5-12-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CHEONG YEW CHENG
 No. 57900
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

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

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

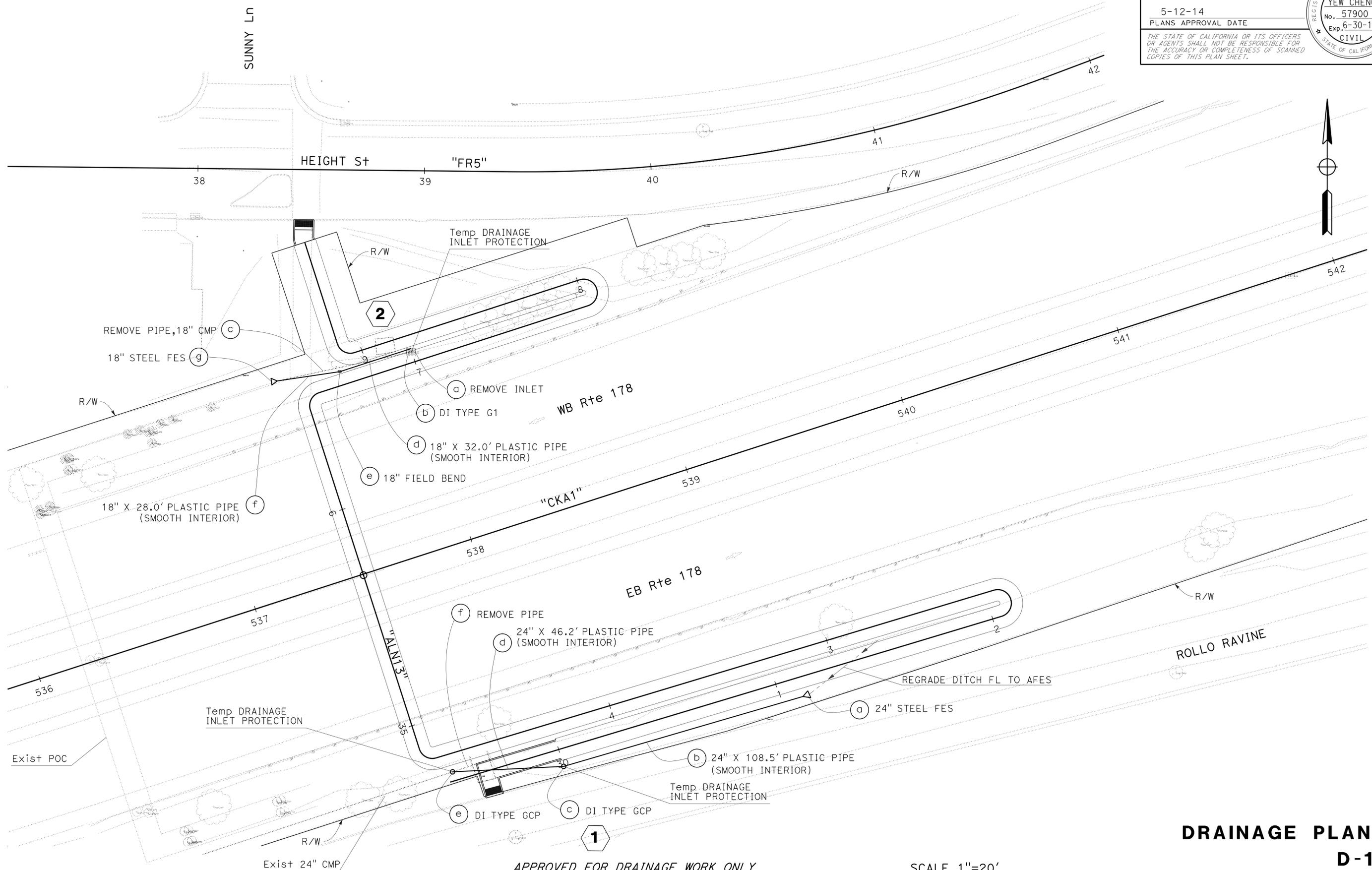
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 NICHOLAS CHAN

CALCULATED-DESIGNED BY
 CHECKED BY

INDERPAL GILL
 CHEONG-YEW CHENG

REVISED BY
 DATE REVISED



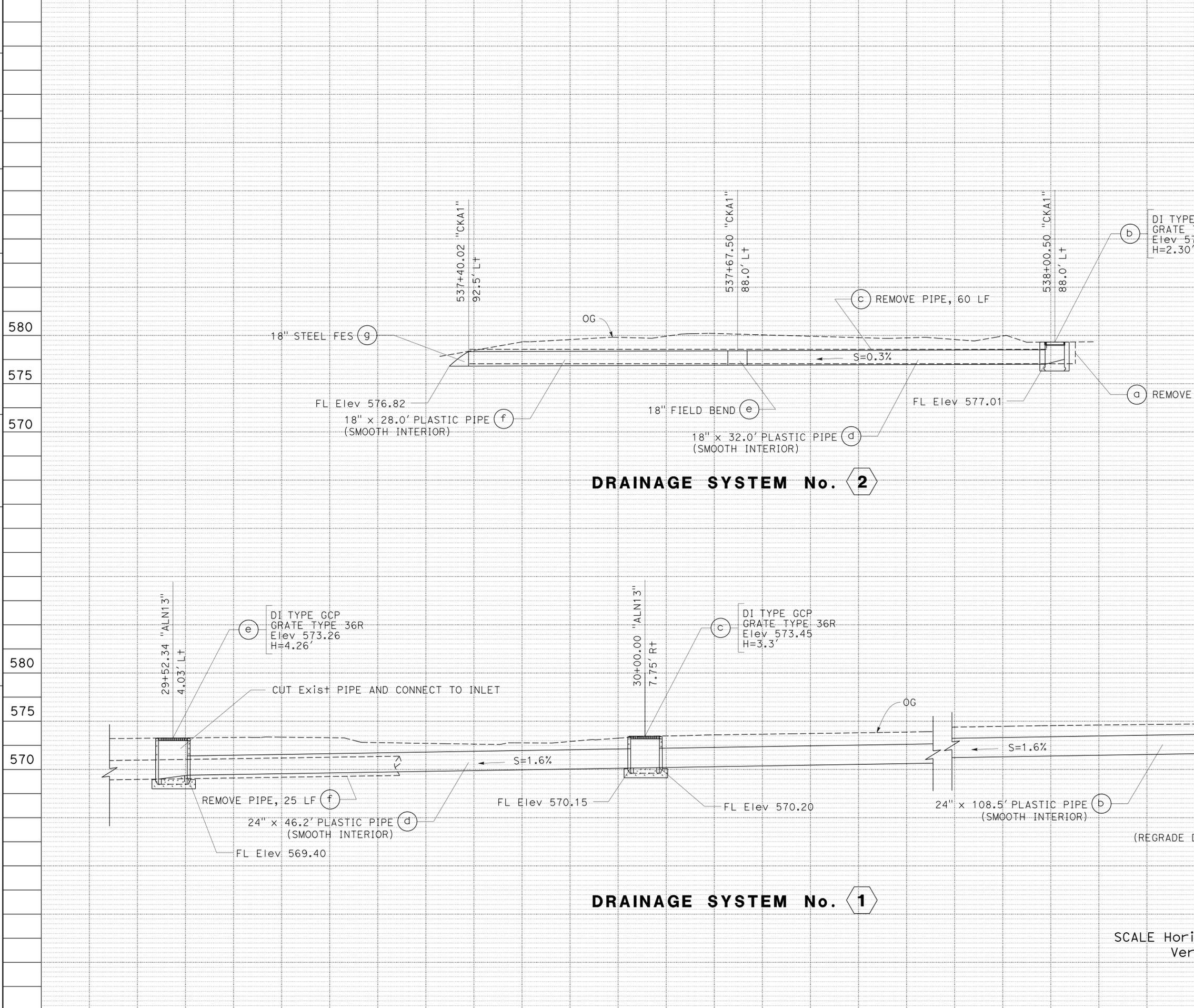
APPROVED FOR DRAINAGE WORK ONLY

SCALE 1"=20'

DRAINAGE PLAN D-1

LAST REVISION DATE PLOTTED => 23-AUG-2014
 05-12-14 TIME PLOTTED => 17:33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN



| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 6 | 95 |
| <i>Chey Cheong Yew</i> 5-12-14 REGISTERED CIVIL ENGINEER DATE | | | | | |
| 5-12-14 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. | | | | | |



DRAINAGE PROFILE DP-1
 SCALE Horiz 1"=5'
 Vert 1"=5'

LAST REVISION DATE PLOTTED => 23-AUG-2014
 05-12-14 TIME PLOTTED => 17:33

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 9 | 95 |

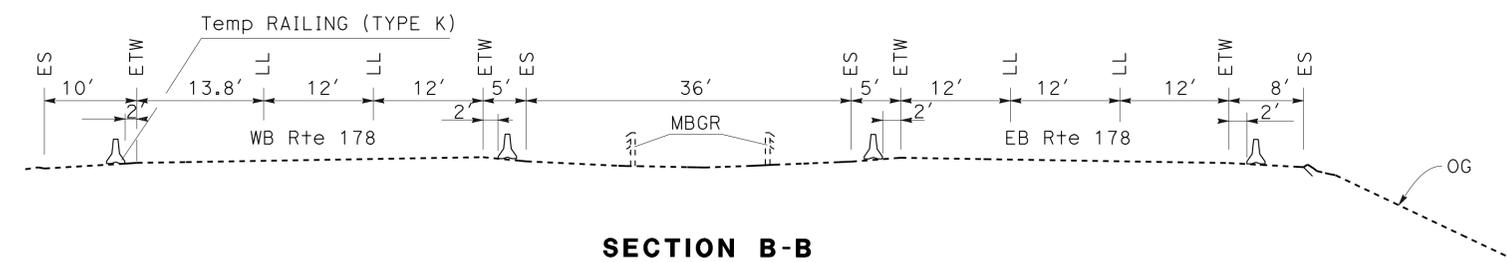
| | |
|---------------------------|------|
| 5-12-14 | |
| REGISTERED CIVIL ENGINEER | DATE |
| 5-12-14 | |
| PLANS APPROVAL DATE | |

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.



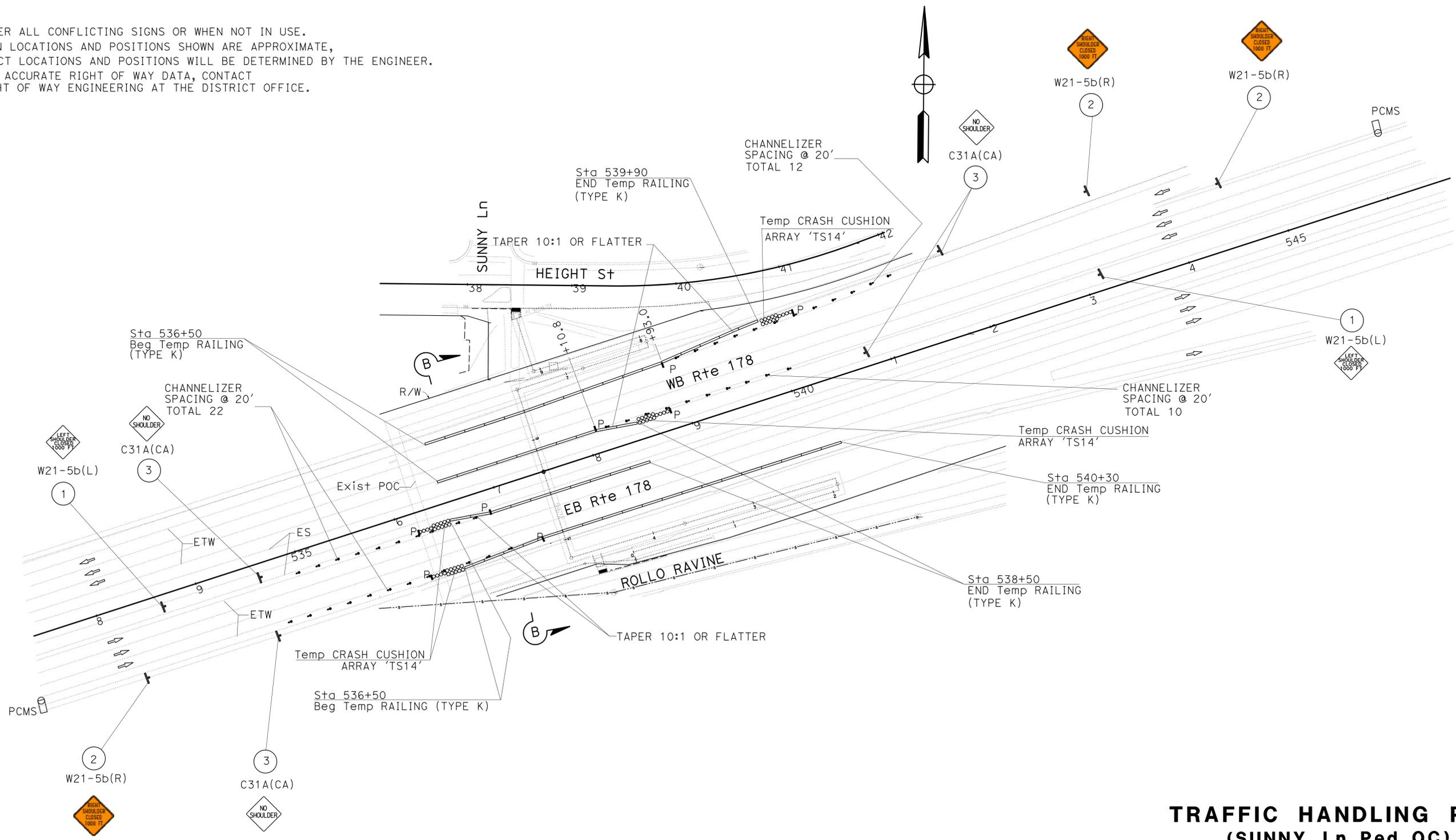
LEGEND:

- TEMPORARY RAILING (TYPE K)
- CHANNELIZER (SURFACE MOUNTED)
- CONSTRUCTION AREA SIGN No.
- TEMPORARY CRASH CUSHION (ARRAY AS NOTED)
- OBJECT MARKER (TYPE P)
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)



NOTES:

1. COVER ALL CONFLICTING SIGNS OR WHEN NOT IN USE.
2. SIGN LOCATIONS AND POSITIONS SHOWN ARE APPROXIMATE, EXACT LOCATIONS AND POSITIONS WILL BE DETERMINED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**TRAFFIC HANDLING PLAN
(SUNNY Ln Ped OC)
TH-1**

SCALE: 1"=50'

APPROVED FOR TRAFFIC HANDLING WORK ONLY

| | | | |
|--|-----------------------|------------------|--------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | REVISOR | DATE |
| Et Caltrans | MOHAMMED QATAMI | HUE NGUYEN | 5-12-14 |
| TRAFFIC DESIGN | CHECKED BY | RAJINI TEKALKOTE | DATE REVISED |
| | DESIGNED BY | | |

USERNAME => s115755
DGN FILE => 0614000265md001.dgn



UNIT 1512

PROJECT NUMBER & PHASE

06140002651

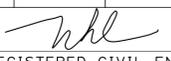
BORDER LAST REVISED 7/2/2010

LAST REVISION: DATE PLOTTED => 23-AUG-2014
05-12-14 TIME PLOTTED => 17:33

NOTE:

1. SEE CONSTRUCTION AREA SIGNS, DETOUR PLANS FOR ADDITIONAL CONSTRUCTION AREA SIGNS.

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 10 | 95 |

 5-12-14
 REGISTERED CIVIL ENGINEER DATE

5-12-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 HUE NGUYEN
 No. 74484
 Exp. 12/31/15
 CIVIL
 STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SHEET No. | SIGN No. | SIGN CODE | | SIGN MESSAGE | PANEL SIZE | No. POST AND SIZE | No. OF SIGNS |
|-----------|----------|-----------|------------|-------------------------------|------------|-------------------|--------------|
| | | FEDERAL | CALIFORNIA | | | | |
| TH-1 | ① | W21-5b(L) | | LEFT SHOULDER CLOSED 1000 FT | 48" x 48" | 1 - 6" x 6" | 2 |
| | ② | W21-5b(R) | | RIGHT SHOULDER CLOSED 1000 FT | 48" x 48" | 1 - 6" x 6" | 3 |
| | ③ | | C31A(CA) | NO SHOULDER | 48" x 48" | 1 - 6" x 6" | 4 |

TRAFFIC HANDLING DELINEATION QUANTITIES

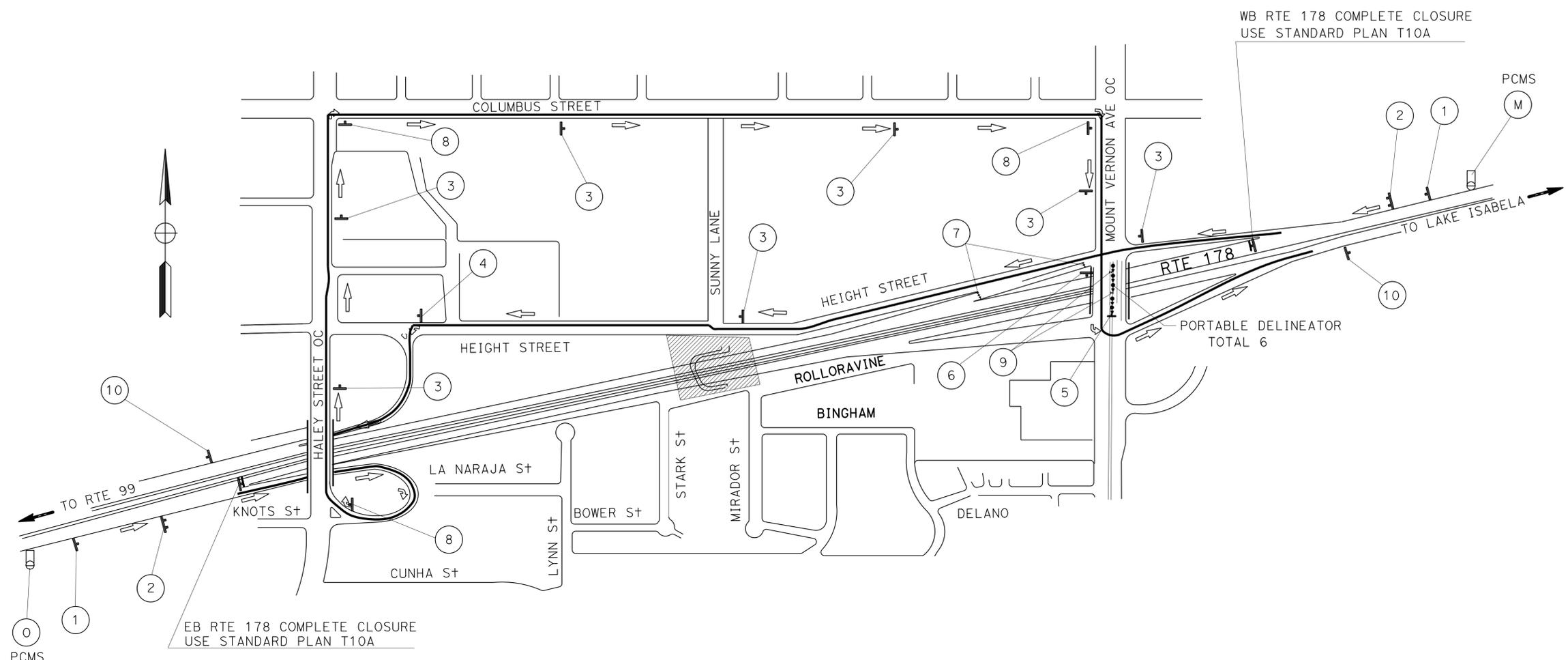
| SHEET No. | ROUTE | DIRECTION | STATION | TEMPORARY RAILING (TYPE K) | TEMPORARY CRASH CUSHION MODULE | | CHANNELIZER (SURFACE MOUNTED) | OBJECT MARKER TYPE P (N) |
|-----------|-------|-----------|--------------------------|----------------------------|--------------------------------|----|-------------------------------|--------------------------|
| | | | | | ARRAY TS 14 | | | |
| | | | | | EA | EA | | |
| TH-1 | 178 | WB | S+a 536+50 TO S+a 538+50 | 200 | 14 | 10 | 2 | |
| | | | S+a 536+50 TO S+a 539+90 | 340 | 14 | 12 | 2 | |
| | | EB | S+a 536+50 TO S+a 538+50 | 200 | 14 | 10 | 2 | |
| | | | S+a 536+50 TO S+a 540+30 | 380 | 14 | 12 | 2 | |
| TOTAL | | | | 1,120 | 56 | 44 | | |

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**TRAFFIC HANDLING QUANTITIES
THQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: RAJINI TEKALKOTE
 CHECKED BY: HUE NGUYEN
 REVISED BY: RAJINI TEKALKOTE
 DATE REVISED: HUE NGUYEN





- NOTES:**
- DURING THE WB RTE 178 LANE CLOSURE THE PCMS MESSAGE AT (M) SHOULD READ

| | |
|----------------------|------------|
| FREEWAY CLOSED AHEAD | USE DETOUR |
| 1st FRAME | 2nd FRAME |
 - DURING THE EB RTE 178 LANE CLOSURE THE PCMS MESSAGE AT (O) SHOULD READ

| | |
|----------------------|------------|
| FREEWAY CLOSED AHEAD | USE DETOUR |
| 1st FRAME | 2nd FRAME |

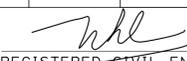
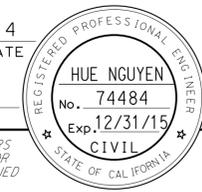
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

| SIGN No. | SIGN CODE | | PANEL SIZE | SIGN MESSAGE | No. OF POST AND SIZE | PORTABLE DELINEATOR | | No. OF SIGNS | REMARKS |
|--------------|-----------|------------|------------|-----------------------------|----------------------|---------------------|----|--------------|-------------------------------------|
| | FEDERAL | CALIFORNIA | | | | EA | EA | | |
| ① | W20-2 | | 36" x 36" | DETOUR AHEAD | 1 - 4" x 6" | | | 2 | |
| ② | R11-4 | | 60" x 30" | ROAD CLOSED TO THRU TRAFFIC | 2 - 4" x 6" | | | 2 | |
| | M4-10(R+) | | 48" x 18" | DETOUR (RIGHT) | | | | | |
| ③ | | SC3(CA) | 36" x 12" | DETOUR WITH ARROW | 1 - 4" x 4" | | | 7 | |
| ④ | M4-10(L+) | | 48" x 18" | DETOUR (LEFT) | 1 - 4" x 4" | | | 1 | |
| ⑤ | W20-3 | | 36" x 36" | RAMP CLOSED AHEAD | 1 - 4" x 4" | | | 1 | |
| ⑥ | M4-10(L+) | | 48" x 18" | DETOUR (LEFT) | | | | 1 | MOUNT ABOVE EXISTING G78-1(CA) SIGN |
| | | SC6-4(CA) | 48" x 60" | RAMP CLOSED | | | | | |
| ⑦ | M4-10(R+) | | 48" x 18" | DETOUR (RIGHT) | | | 6 | 2 | MOUNT ON TYPE III BARRICADE |
| | | | 48" x 18" | DETOUR (RIGHT) | | | | | MOUNT ON TYPE III BARRICADE |
| ⑧ | M4-10(R+) | | 48" x 18" | DETOUR (RIGHT) | 1 - 4" x 4" | | | 3 | |
| ⑨ | R11-2 | | 48" x 30" | ROAD CLOSED | | 6 | 6 | 2 | MOUNT ON TYPE III BARRICADE |
| ⑩ | M4-8a | | 24" x 12" | END DETOUR | 1 - 4" x 4" | | | 2 | |
| TOTAL | | | | | | 6 | 12 | | |

DETOUR PLAN
NO SCALE **DE-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
 CALCULATED/DESIGNED BY: FERNANDO LOPEZ
 CHECKED BY: HUE NGUYEN
 REVISED BY: DATE REVISED: 05-15-13
 RT: 05-15-13

LAST REVISION: DATE PLOTTED => 23-AUG-2014
 05-12-14 TIME PLOTTED => 17:34

| | | | | | |
|--|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 12 | 95 |
|  | | | 5-12-14 | DATE | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| 5-12-14 | | | PLANS APPROVAL DATE | | |
|  | | | | | |
| <small>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.</small> | | | | | |

NOTE:

FOR LOCATION AND BRIDGE MOUNTED SIGN DETAILS SEE STRUCTURE SHEET.

SIGN (B)



12.0" Radius, 2.0" Border, White on Green;
 [] E Mod; [Beale Avenue] E Mod; [3/4] E Mod 50% spacing; [Union Avenue 1 3/4] E Mod; [Golden State Ave] E Mod; [2] E Mod;

INSTALL NEW SIGN PANEL

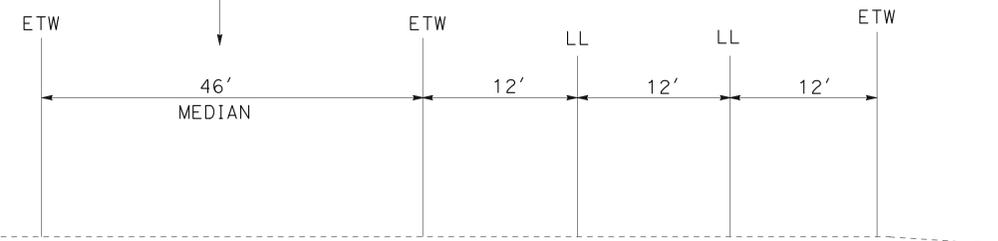


SIGN (B)

REMOVE EXISTING SIGN PANEL



SIGN (A)



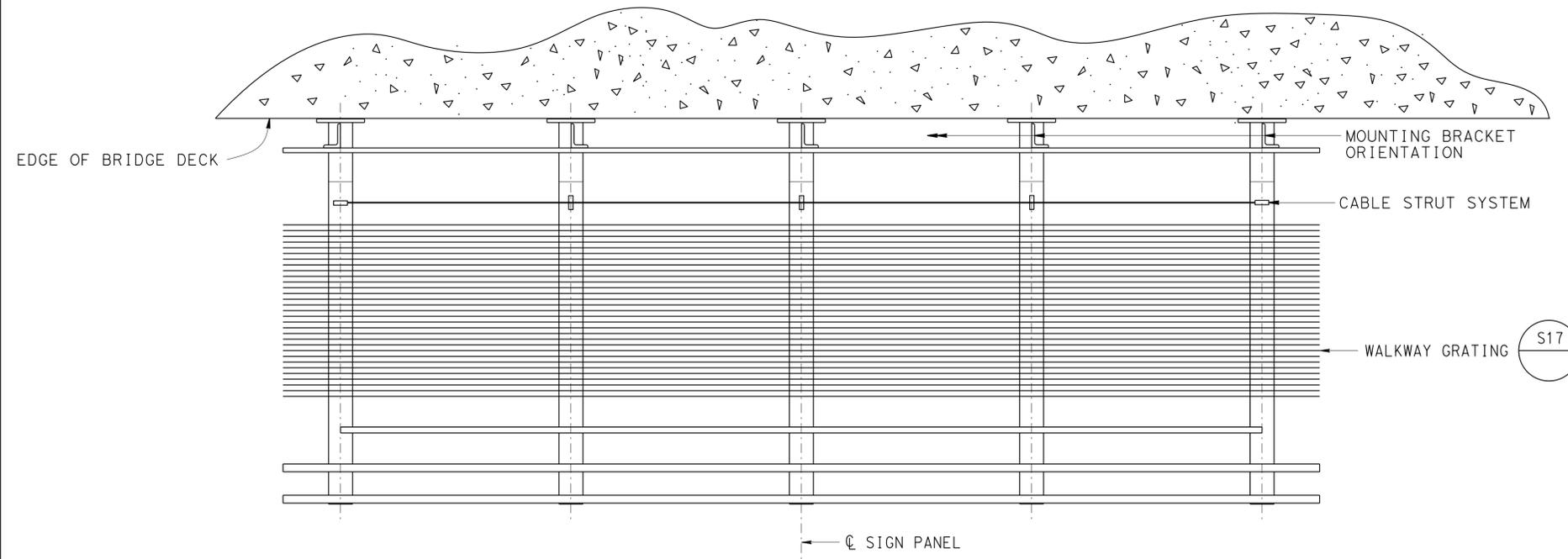
(B) FWBT - MOUNTED ON THE BRIDGE

OVERHEAD SIGN ITEMS

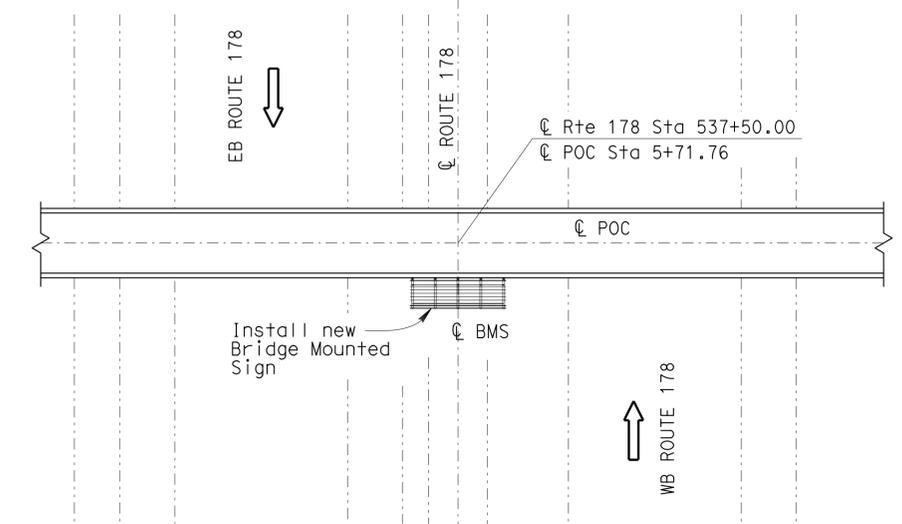
| SIGN | SIGN CODE | LOCATION | PANEL SIZE | SINGLE FACED | OVERHEAD SIGN PANEL | | | | | FURNISH LAMINATED PANEL SIGN (1"-TYPE A) | REMOVE SIGN PANEL | REMOVE BRIDGE MOUNTED SIGN | INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY) | FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY) | REMARKS |
|-------|-----------|---------------|------------|--------------|---------------------|-----------------------------|----------------|-----------------------------|---------------|--|-------------------|----------------------------|--|--|------------------------------|
| | | | | | BACKGROUND | | LEGEND | | GRAFFITI FLOW | | | | | | |
| | | | | | SHEETING COLOR | RETROREFLECTIVITY ASTM TYPE | SHEETING COLOR | RETROREFLECTIVITY ASTM TYPE | PREMIUM | | | | | | |
| | | | | | | | | | SQFT | EA | EA | LB | LB | | |
| (A) | G23-1(CA) | FWBT PM R4.35 | | | | | | | | | 1 | 1 | | | EXISTING BRIDGE MOUNTED SIGN |
| (B) | G23-1(CA) | FWBT PM R4.35 | 264" x 90" | X | GREEN | XI | WHITE | XI | X | 165 | | | 2820 | 2820 | |
| TOTAL | | | | | | | | | | 165 | 1 | 1 | 2820 | 2820 | |

SIGN DETAILS AND QUANTITIES
SD-1

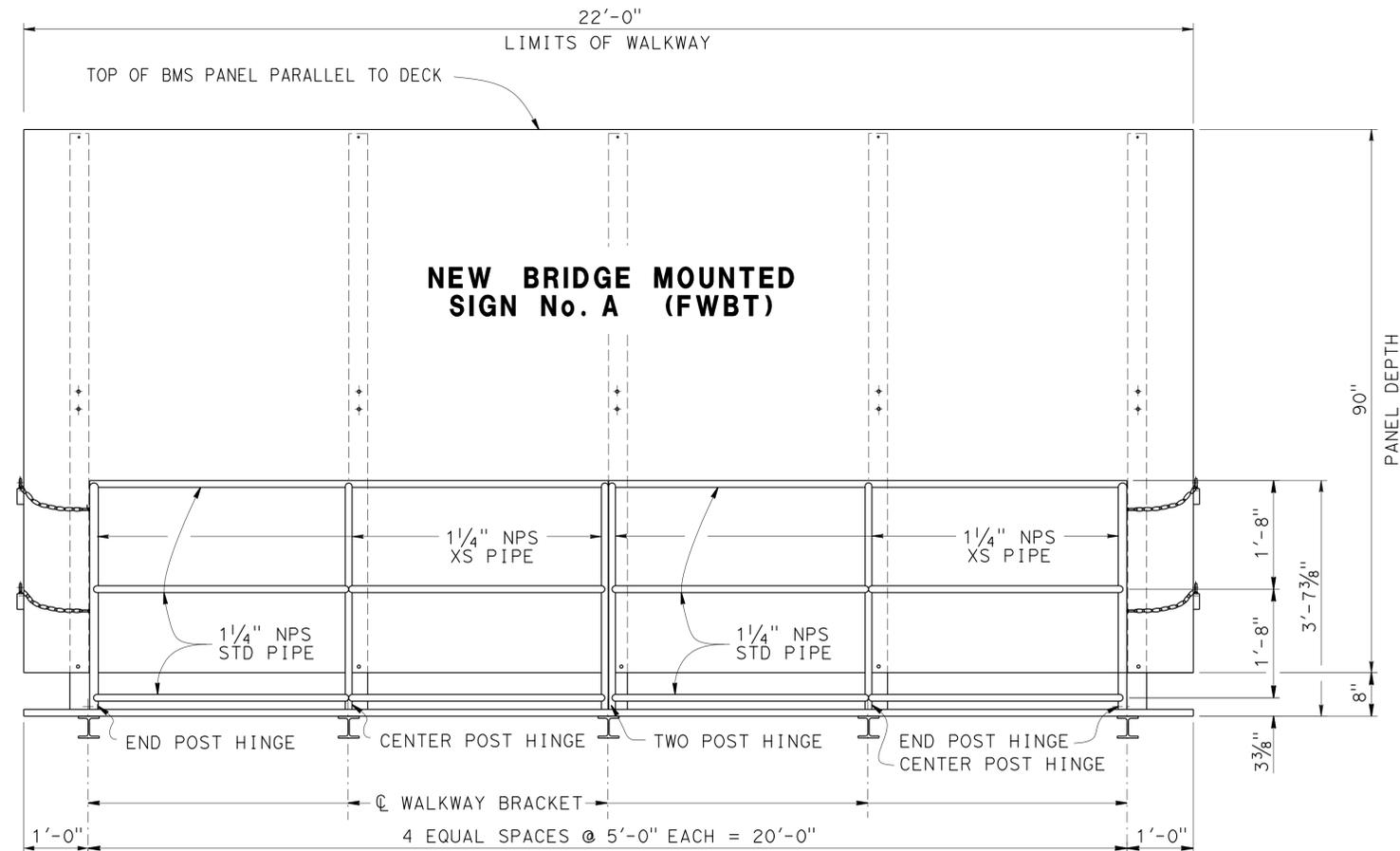
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|--|--------|-------|---|----------|--------------|
| 06 | Ker | 178 | R4.4 | 13 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 5/12/14 | DATE | |
| 5-12-14 PLANS APPROVAL DATE | | |  | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small> | | | | | |



PLAN VIEW



LOCATION PLAN



FRONT VIEW

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

LEGEND:

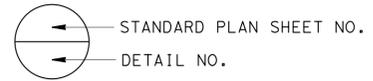
- Existing structure.
- New structure.
- BMS Bridge Mounted Sign

STANDARD PLANS DATED 2010

- A10A ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
- A10B ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)

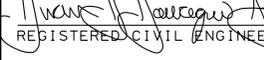
NOTES:

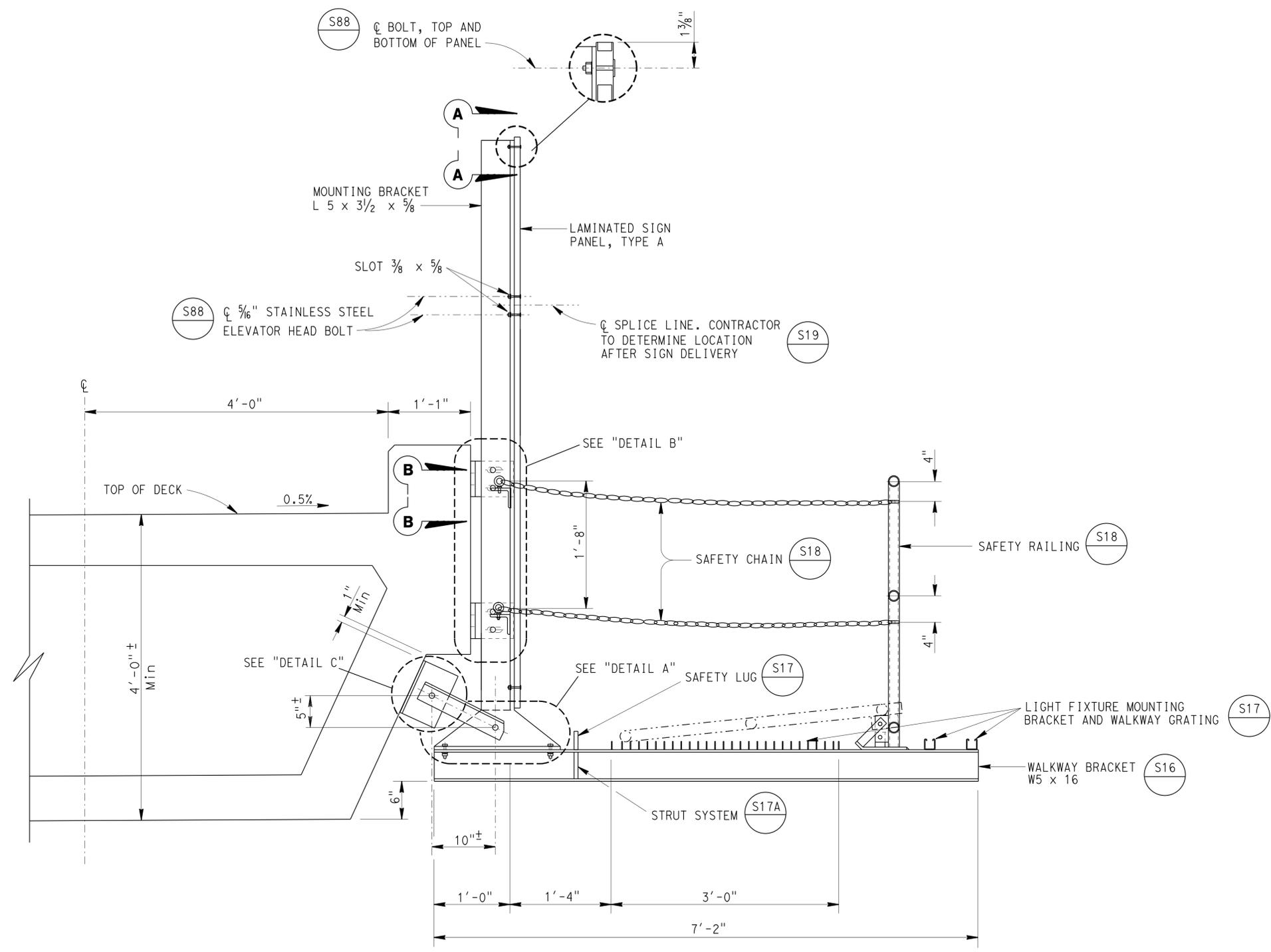
1. For sign location, see "SIGN PLANS".
2. For details not shown, see "BRIDGE MOUNTED SIGN TYPICAL DETAILS" sheet.
3. For details not shown, see "STANDARD PLANS 2010".
4. All high strength (HS) bolts shall be snug tightened.
5. Minimum size fillet weld is 1/4" or thickness of thinner part unless noted otherwise.
6. Unless otherwise shown, all steel shall be galvanized after fabrication.



NO SCALE

| | | | | | | | | |
|--------------------------------|------------|-------------------|---------------------|--|--|------------|---|--------------|
| BRANCH CHIEF JEFF WOODY | DESIGN | BY J JAUREGUI | CHECKED A GUTIERREZ | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH | BRIDGE NO. | SUNNY LANE POC (REPLACE) BRIDGE MOUNTED SIGN LOCATION PLAN | SDS-1 |
| | DETAILS | BY D W JUSTICE Jr | CHECKED J JAUREGUI | | | 50-0517 | | |
| | QUANTITIES | BY J JAUREGUI | CHECKED A GUTIERREZ | | | R4.4 | | |

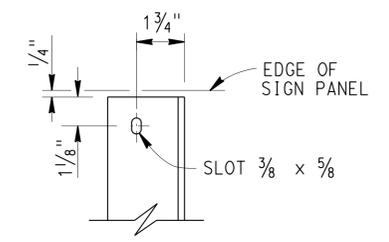
| | | | | | |
|--|--------|-------|---|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 14 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 5/12/14 | DATE | |
| 5-12-14 PLANS APPROVAL DATE | | |  | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small> | | | | | |



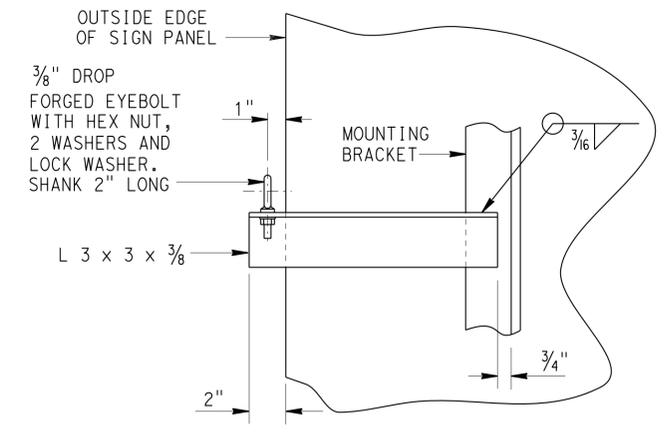
TYPICAL SECTION

NOTES:

- For details not shown, see "2010 STANDARD PLANS".
- Special care shall be taken to insure that the complete hinge and latch assembly will hold the safety railing in a steady manner, free of wobble while in the raised position. Maximum allowable displacement from vertical at top of railing when latched shall be 1".
- For "DETAIL A", "DETAIL B", and "DETAIL C", see "TYPICAL DETAILS" sheet.

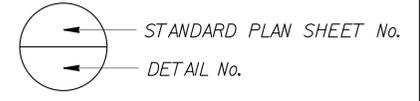


SECTION A-A



SECTION B-B

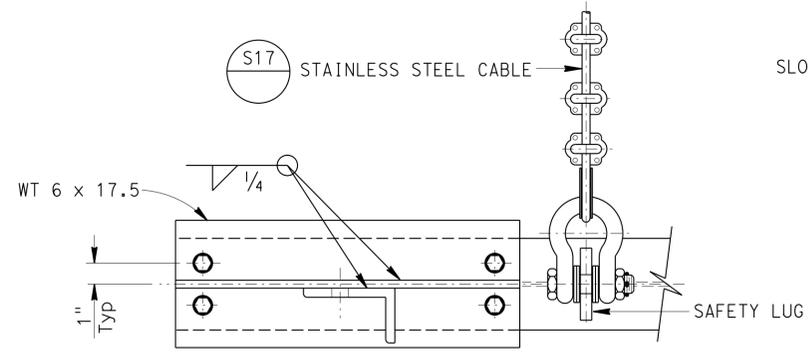
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



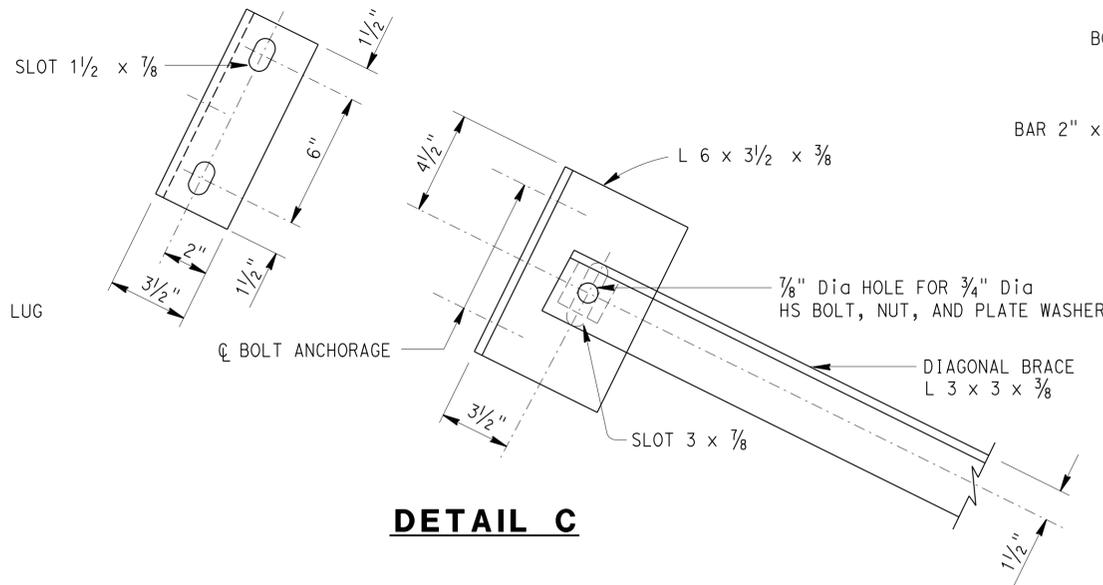
| | | | | | | | | |
|---|------------|--|---------------------------------|--|--|---|---|-------------------------|
| BRANCH CHIEF JEFF WOODY | DESIGN | BY JUAN JAUREGUI | CHECKED ARLENA GUTIERREZ | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH | BRIDGE NO. | SUNNY LANE POC (REPLACE) BRIDGE MOUNTED SIGN TYPICAL SECTION | SDS-2 |
| | DETAILS | BY R. YEE | CHECKED JUAN JAUREGUI | | | 50-0517 | | |
| | QUANTITIES | BY JUAN JAUREGUI | CHECKED ARLENA GUTIERREZ | | | POST MILE | | |
| | | | | | | R4.4 | | |
| (ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09) | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | UNIT: 3619 | | PROJECT NUMBER & PHASE: 0614000265-1 | | CONTRACT NO.: 06-0H6414 |
| | | | | 0 1 2 3 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES |
| | | | | | | 6-24-13 6/2/14 1/14/14 1/22/14 | | SHEET OF |

USERNAME => s115755 DATE PLOTTED => 25-AUG-2014 TIME PLOTTED => 15:15

| | | | | | |
|---|--------|-------|--------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 15 | 95 |
| REGISTERED CIVIL ENGINEER JUAN J. JAUREGUI JR. No. C63939 Exp. 9/30/14 CIVIL STATE OF CALIFORNIA | | | 5/12/14 | DATE | |
| 5-12-14 | | | PLANS APPROVAL DATE | | |
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SECTION C-C



DETAIL C

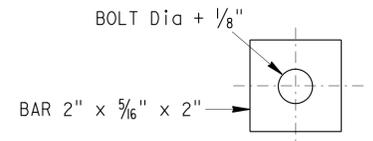
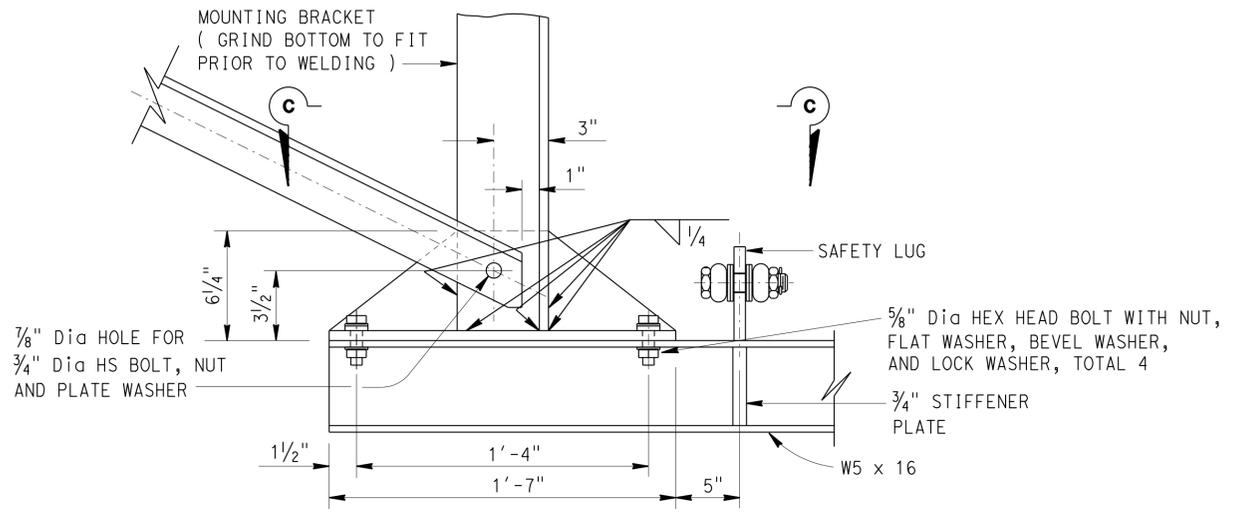


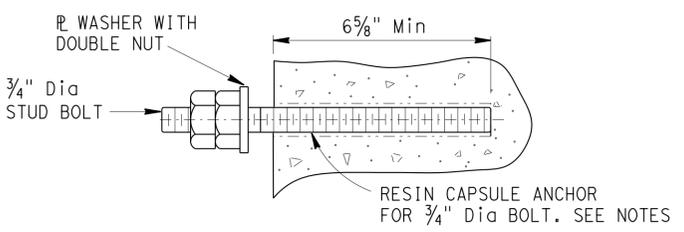
PLATE WASHER
FOR SLOTTED HOLES, WHERE NOTED

NOTES:

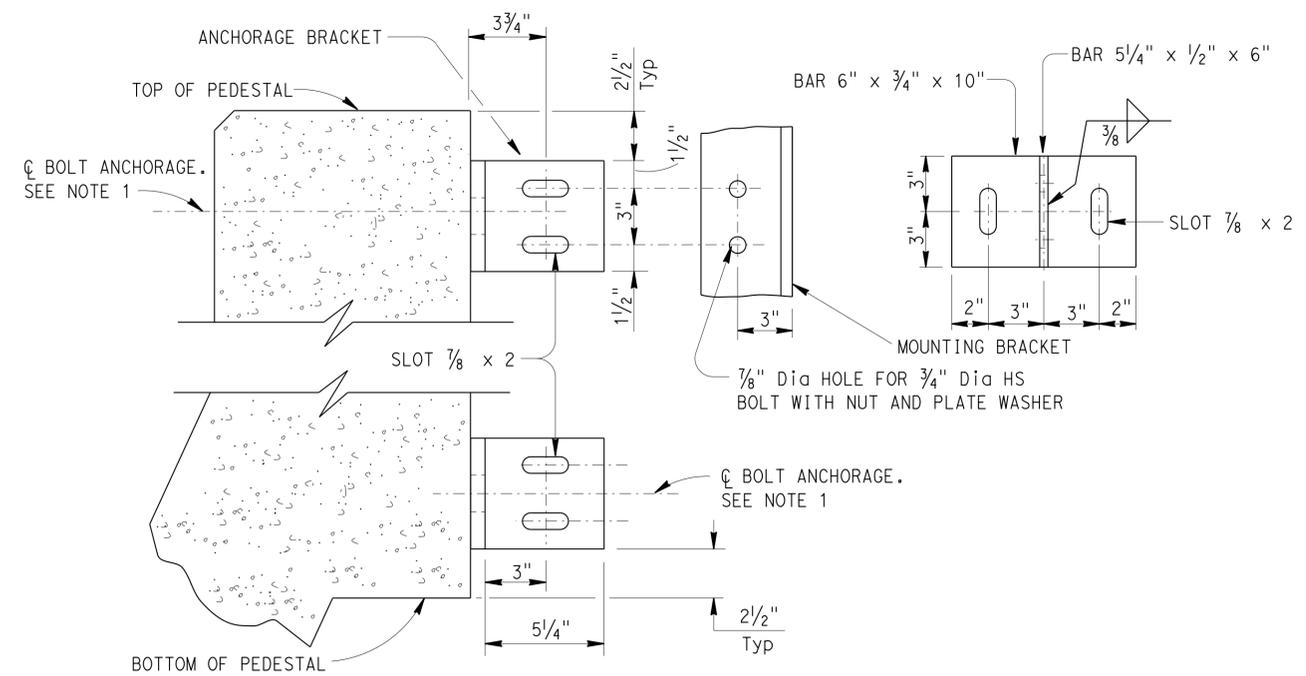
- Contractor to provide anchor bolt layout before anchor bolts are placed. Resin capsule bolt locations shall be laid out prior to pouring deck and barrier rail concrete to avoid interference with rebar or fence post.
- Where new resin capsule bolt anchorage coincides with fence post, adjust new mounting bracket to create a minimum distance of 6" measured from the centerline of nearest resin capsule bolt anchorage to the centerline of fence post or as approved by the engineer.
- Resin capsule anchorage is subject to approval of engineer. Installation procedure shall comply with manufacturer's instructions.
- Unless otherwise shown, all steel shall be galvanized after fabrication.
- Resin capsule bolt anchors shall be installed in sound concrete free of cracks or delamination.



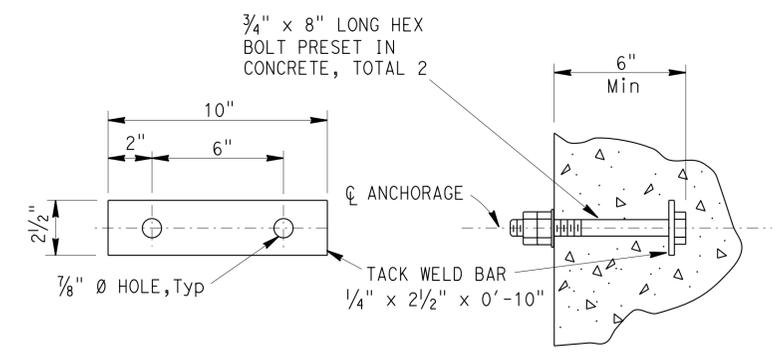
DETAIL A



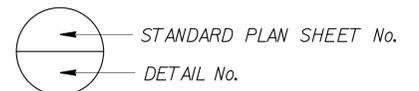
RESIN CAPSULE BOLT ANCHORAGE



DETAIL B



ALTERNATIVE CIP BOLT ANCHORAGE



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

| | | | | | | | |
|--------------------------------|------------------------------------|---------------------------------|---|--|-----------------------|--|-------|
| BRANCH CHIEF JEFF WOODY | DESIGN BY JUAN JAUREGUI | CHECKED ARLENA GUTIERREZ | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH A | BRIDGE NO. 50-0517 | SUNNY LANE POC (REPLACE) BRIDGE MOUNTED SIGN TYPICAL DETAILS | SDS-3 |
| | DETAILS BY R. YEE | CHECKED JUAN JAUREGUI | | | POST MILE R4.4 | | |
| | QUANTITIES BY JUAN JAUREGUI | CHECKED ARLENA GUTIERREZ | | | | | |

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 16 | 95 |

Chey Cheng Yew 5-12-14
REGISTERED CIVIL ENGINEER DATE

5-12-14
PLANS APPROVAL DATE

CHEONG YEW CHENG
No. 57900
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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

MIDWEST GUARDRAIL SYSTEM

| SHEET No. | STATION | SIDE | MIDWEST GUARDRAIL SYSTEM (STEEL POST) | ALTERNATIVE FLARED TERMINAL SYSTEM | ALTERNATIVE IN-LINE TERMINAL SYSTEM | END ANCHOR ASSEMBLY (TYPE SFT) | SALVAGE GUARDRAIL |
|-----------|---------------------------------------|------|---------------------------------------|------------------------------------|-------------------------------------|--------------------------------|-------------------|
| | | | LF | EA | EA | EA | LF |
| L-1 | "CKA1" STA 536+12.95 TO STA 538+10.30 | L+ | | | | | 200.0 |
| L-1 | "CKA1" STA 536+01.00 TO STA 537+60.00 | R+ | | | | | 162.5 |
| L-1 | "CKA1" STA 537+32.14 TO STA 539+07.14 | L+ | 175.0 | 1 | | 1 | |
| L-1 | "CKA1" STA 536+97.50 TO STA 540+35.00 | R+ | 337.5 | | 1 | 1 | |
| TOTAL | | | 512.5 | 1 | 1 | 2 | 362.5 |

OBJECT MARKER AND GUARDRAIL DELINEATOR

| SHEET No. | LOCATION | OBJECT MARKER (TYPE P) | GUARD RAILING DELINEATOR |
|-----------|--------------|------------------------|--------------------------|
| | | EA | EA |
| L-1 | WB ROUTE 178 | 1 | 2 |
| L-1 | EB ROUTE 178 | 1 | 2 |
| TOTAL | | 2 | 4 |

ROADWAY QUANTITIES

| SHEET No. | DESCRIPTION | MINOR Conc (Misc CONSTRUCTION) | | | REPLACE AC SURFACING | IMPORTED BORROW (CY) | REMOVE CHAIN LINK FENCE | REMOVE CONCRETE | CHAIN LINK FENCE (TYPE CL-6) | DETECTABLE WARNING SURFACE |
|-----------|---|--------------------------------|------------------|---------------------|----------------------|----------------------|-------------------------|-----------------|------------------------------|----------------------------|
| | | CURB RAMP | CURB (TYPE A1-6) | SIDEWALK/ Conc Pvm+ | | | | | | |
| C-1 | CURB RAMP 1 NORTH OF Rte 178 TO HEIGHT ST | 0.6 | 0.6 | 0.8 | 1.0 | | | 1.5 | | 21.0 |
| C-1 | CURB RAMP 2 TO SOUTH OF Rte 178 TO ROLLO RAVINE | 1.0 | 2.3 | 5.4 | 0.5 | 26.0 | | 1.8 | | 21.0 |
| C-1 | "ALN13" STA 30+00.00 10' R+ TO STA 30+00.00 5' R+ | | | | | | | | 5.0 | |
| C-1 | "ALN13" STA 30+00.00 5' L+ TO STA 29+61.20 5' L+ | | | | | | | | 40.0 | |
| C-1 | "ALN13" STA 30+00.00 10' R+ TO STA 29+69.67 8.2' L+ | | | | | | 40.0 | | | |
| SUBTOTAL | | 1.6 | 2.9 | 6.2 | 1.5 | 26.0 | 40.0 | 3.3 | 45.0 | 42.0 |
| TOTAL | | 10.7 | | | 1.5 | 26.0 | 40.0 | 3.3 | 45.0 | 42.0 |

Temp FENCE (TYPE ESA)

| SHEET No. | LOCATION | Temp FENCE (TYPE ESA) |
|-----------|-----------------------------------|-----------------------|
| | | LF |
| L-1 | Sta 535+99.80 "CKA1" WB ROUTE 178 | 42 |
| L-1 | Sta 539+50.41 "CKA1" WB ROUTE 178 | 39 |
| L-1 | Sta 536+00.06 "CKA1" EB ROUTE 178 | 41 |
| L-1 | Sta 540+43.06 "CKA1" EB ROUTE 178 | 56 |
| TOTAL | | 178 |

SUMMARY OF QUANTITIES Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR: NICHOLAS CHAN
DESIGNED BY: [] CHECKED BY: []
INDERPAL GILL
CHEONG-YEW CHENG
REVISED BY: [] DATE REVISED: []
CALCULATED/DESIGNED BY: []
CHECKED BY: []

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

LAST REVISION | DATE PLOTTED => 23-AUG-2014
05-12-14 | TIME PLOTTED => 17:34

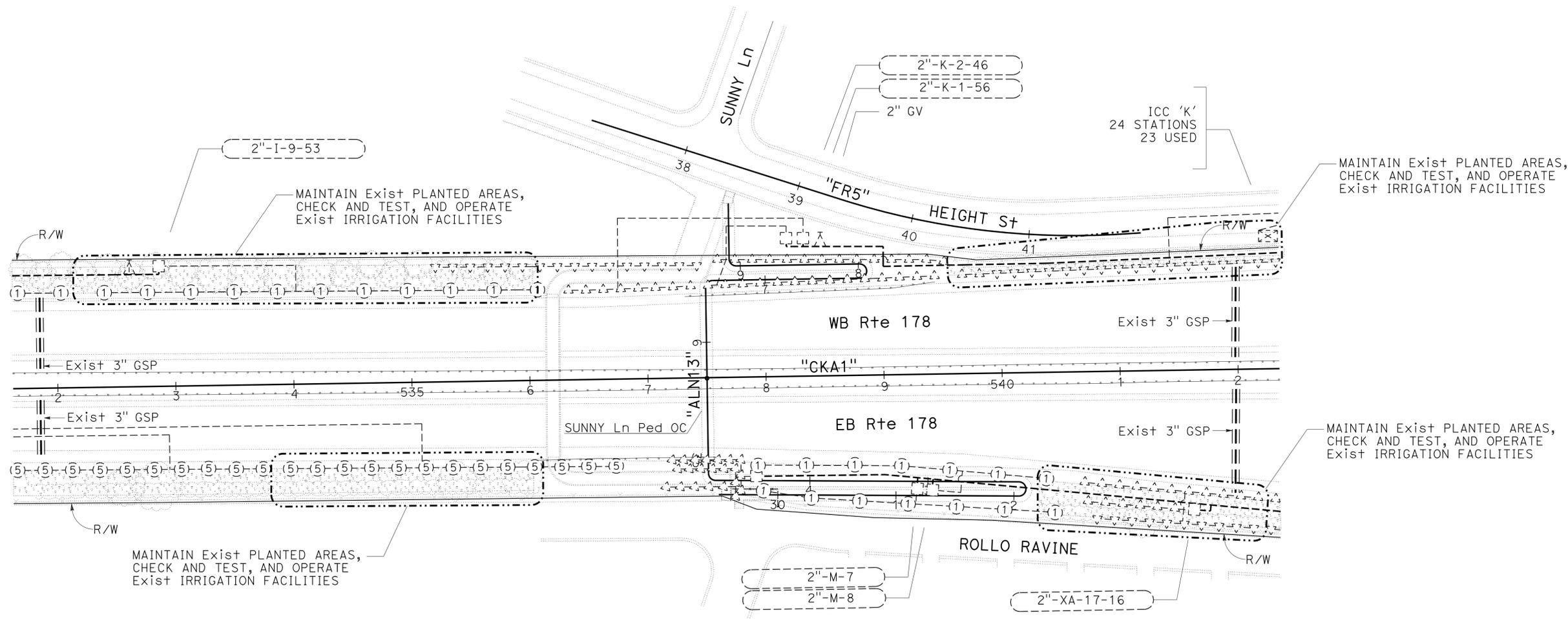
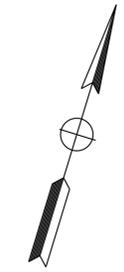
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

- LEGEND:**
-  Exist TREES
 -  Exist SHRUBS
 -  Exist GROUNDCOVER

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 17 | 95 |

LICENSED LANDSCAPE ARCHITECT
 5-12-14
 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.



| | | |
|--|----------------|------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | REVISOR | DATE |
| Et Caltans LANDSCAPE ARCHITECTURE | KEVIN GALLO | |
| | GLORIA RAMIREZ | |
| SENIOR LANDSCAPE ARCHITECT | CHECKED BY | DATE |
| BRAD COLE | | |

**MAINTAIN EXISTING PLANTED AREAS
MEPA-1**

APPROVED FOR MAINTAIN EXISTING PLANTED AREA WORK ONLY

SCALE: 1"=50'

IRRIGATION SPRINKLER SCHEDULE

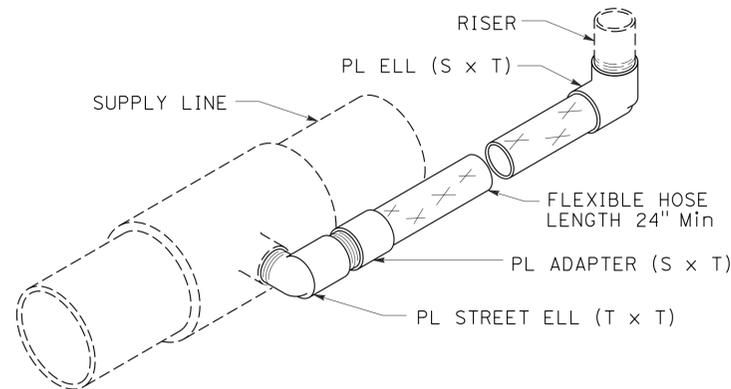
| SYMBOL | SPRINKLER No. | ITEM DESCRIPTION | SPRINKLER TYPE | SPRAY PATTERN | OPERATING PRESSURE (PSI) | PRESSURE COMPENSATING | PLUS/MINUS 5% ② | | | RISER | | | | | SWING JOINT | | REMARKS | | |
|--------|---------------|--|----------------|---------------|--------------------------|-----------------------|--------------------------|------------------------|-------------|---------------------|---------------------|------|----------|------------|-----------------|---------------|---------|------|---------------------------|
| | | | | | | | DISCHARGE | | RADIUS (FT) | WIDTH X LENGTH (FT) | FLOW SHUTOFF DEVICE | TYPE | MATERIAL | | DIAMETER (INCH) | HEIGHT (INCH) | | TYPE | DIAMETER (INCH) |
| | | | | | | | GALLONS PER MINUTE (GPM) | GALLONS PER HOUR (GPH) | | | | | PLASTIC | GALVANIZED | | | | | |
| ⑥ | 1 | RISER SPRINKLER ASSEMBLY (GEAR DRIVEN) | GEAR DRIVEN | P | 30 | X | 1.4 | - | 25 | - | - | II | X | - | 1/2 | 12 | I | 1/2 | |
| ● | 2 | RISER SPRINKLER ASSEMBLY | SPRAY | Q | 30 | X | 0.29 | - | 4 | - | - | III | X | - | 1/2 | 6 | I | 1/2 | TWO SPRINKLERS PER TREE ⑦ |

X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

- ① - SEE SPECIAL PROVISIONS.
- ② - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
- 3 - ARC STOP FOR IMPACTS SHALL BE FITTED WITH A NUT AND BOLT.
- 4 - VINYL-COATED CAST IRON HOUSING.
- 5 - REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
- 6 - UNLESS OTHERWISE SHOWN ON PLANS.
- ⑦ - LOCATE SPRINKLERS 3' FROM EDGE OF ROOTBALL ON OPPOSITE SIDES OF PLANT.

| No. OF HEADS BY TYPE | | PIPE SIZE (INCH) |
|--|--------------------------|------------------|
| RISER SPRINKLER ASSEMBLY (GEAR DRIVEN) | RISER SPRINKLER ASSEMBLY | |
| ⑥ | ● | |
| 1-4 | 1-16 | 3/4 |
| 5-8 | 17-36 | 1 |
| 9-21 | 37-96 | 1 1/2 |
| 22-35 | 97-160 | 2 |
| 36-50 | | 2 1/2 |



ISOMETRIC
SWING JOINT TYPE I

IRRIGATION SPRINKLER SCHEDULE ISS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 KEVIN GALLO
 GLORIA RAMIREZ
 BRAD COLE
 SENIOR LANDSCAPE ARCHITECT
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

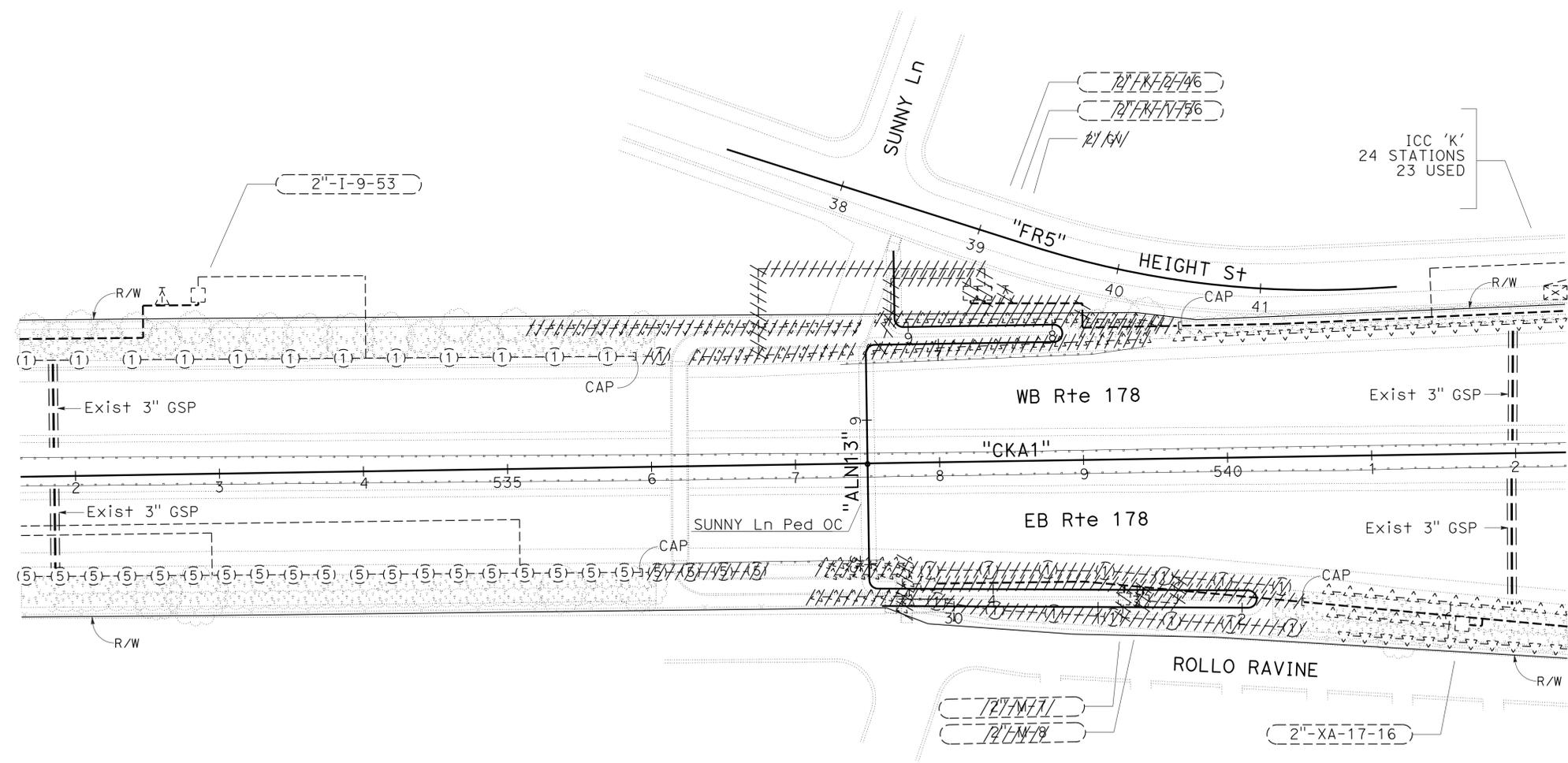
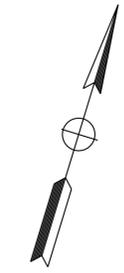
NOTE:

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

LEGEND:

- ~~---H---~~ REMOVE PLASTIC PIPE SUPPLY LINE
- ~~---H---~~ REMOVE RCV
- ~~---H---~~ REMOVE GV
- ~~---H---~~ REMOVE SPRINKLER
- ~~---H---~~ REMOVE SPRINKLER
- ~~---H---~~ REMOVE SPRINKLER
- ~~---H---~~ REMOVE SPRINKLER

| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 19 | 95 |
|  LICENSED LANDSCAPE ARCHITECT | | | | | |
| 5-12-14 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. | | | | | |



ICC 'K'
24 STATIONS
23 USED

| | | | | | |
|--|------------------------|----------------------------|------------------------|----------------|--------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | LANDSCAPE ARCHITECTURE | SENIOR LANDSCAPE ARCHITECT | CALCULATED-DESIGNED BY | KEVIN GALLO | REVISED BY |
| | | BRAD COLE | CHECKED BY | GLORIA RAMIREZ | DATE REVISED |

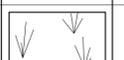
APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN
IR-1**

SCALE: 1"=50'

LEGEND
 AREA MULCH (WOOD CHIP) (4" DEPTH)

PLANT LIST AND PLANTING SPECIFICATIONS

| PLANT GROUP | PLANT No. | SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE | QUANTITY EACH | HOLE SIZE (INCH) | | BASIN TYPE | IRON SULFATE ① | | | SOIL AMEND ① | | | COMMERCIAL FERTILIZER ① | | BASIN MULCH ① | | STAKING | PLANTING LIMITS | | | | | | | REMARKS |
|-------------|-----------|---|-----------------------------|-------------------|---------|---------------|------------------|-------|------------|----------------|------|------|--------------|----------|------|-------------------------|----------------------------|---------------|-------|---------|-----------------|------|-------------|-------------|--------------|--|--|---------|
| | | | | | | | DiG | DEPTH | | RATE | TYPE | CY | PLANTING | PLT ESTB | TYPE | CY | MINIMUM DISTANCE (F+) FROM | | | | ON CENTER (F+) | | | | | | | |
| | | | | | | | | | | | | | | | | | ETW | PVMT | FENCE | | | WALL | PAVED DITCH | EARTH DITCH | | | | |
| B | 1 |  | <u>CERCIS OCCIDENTALIS</u> | WESTERN REDBUD | No. 5 | 8 | ④ | ③ | II | - | N | 0.03 | 1 Pkt | 0.25 Ib | WC | 0.08 | - | - | 15 | 10 | 15 | 15 | 15 | 12 | TREE FORM | | | |
| | 2 |  | <u>LAGERSTROEMIA INDICA</u> | CRAPE MYRTLE | No. 5 | 8 | ④ | ③ | II | - | N | 0.03 | 1 Pkt | 0.25 Ib | WC | 0.08 | - | 30 | - | 10 | 15 | 15 | 17 | 15 | TREE FORM | | | |
| | 3 |  | <u>PHOTINIA X FRASERI</u> | FRASER'S PHOTINIA | No. 5 | 8 | ④ | ③ | II | - | N | 0.03 | 1 Pkt | 0.25 Ib | WC | 0.08 | - | - | 15 | 10 | 10 | 10 | 12 | 8 | TREE FORM | | | |
| | 4 |  | <u>PRUNUS CERASIFERA</u> | FLOWERING PLUM | No. 5 | 4 | ④ | ③ | II | - | N | 0.03 | 1 Pkt | 0.25 Ib | WC | 0.08 | - | - | 15 | 15 | 15 | 15 | 17 | 12 | TREE FORM | | | |
| H | 5 |  | <u>CARPOBROTUS EDULIS</u> | HOTTENTOT FIG | CUTTING | 3,416 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 6 | 6 | 6 | 6 | 1.5 | GROUND COVER | | | |

APPLICABLE WHEN CIRCLED:

- ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SOYD APPLICATION RATES
- 2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
- ③ - SUFFICIENT TO RECEIVE ROOT BALL
- ④ - TWICE THE ROOT BALL DIAMETER
- 5 - SEE SPECIAL PROVISIONS
- 6 - SEE DETAIL
- 7 - AS SHOWN ON PLANS
- 8 - UNLESS OTHERWISE SHOWN ON PLANS
- 9 - FOLIAGE PROTECTOR REQUIRED
- 10 - ROOT PROTECTOR REQUIRED
- 11 - ROOT BARRIER REQUIRED
- 12 - DEPARTMENT-FURNISHED
- 13 - SEE STANDARD SPECIFICATIONS
- 14 - TRIANGULAR SPACING

ABBREVIATIONS:

- S - SPHAGNUM PEAT MOSS
- N - NITROLIZED FIR BARK
- V - VERMICULITE
- P - PERLITE
- TB - TREE BARK
- WC - WOOD CHIP
- SB - SHREDDED BARK
- TT - TREE TRIMMING

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 KEVIN GALLO
 GLORIA RAMIREZ
 CALCULATED-DESIGNED BY
 CHECKED BY
 BRAD COLE
 REVISED BY
 DATE REVISED

APPROVED FOR PLANTING WORK ONLY

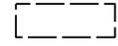
**PLANT LIST
PL-1**

LAST REVISION: 05-09-14 DATE PLOTTED => 23-AUG-2014 TIME PLOTTED => 17:51

NOTE:

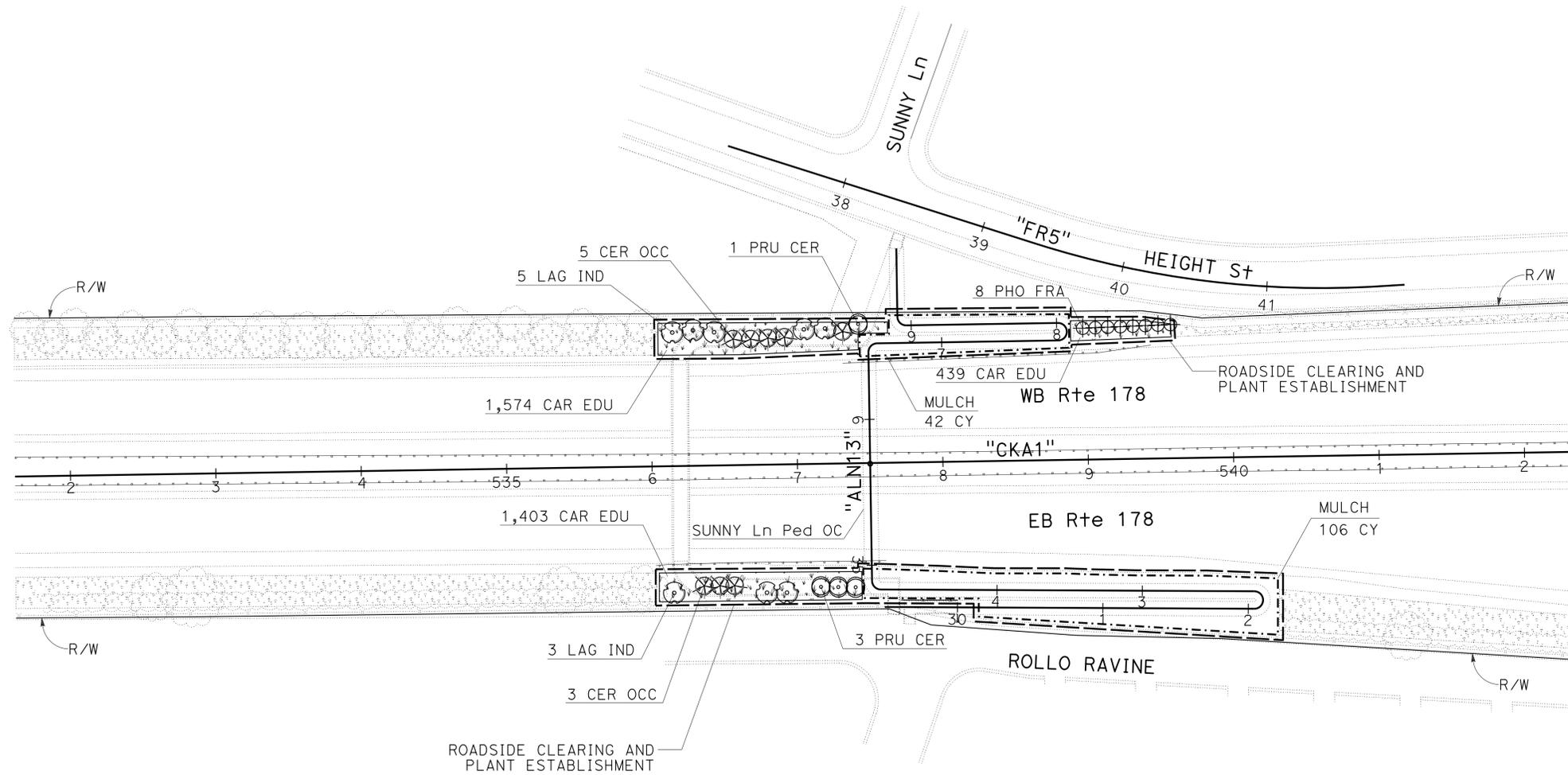
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

 ROADSIDE CLEARING AND PLANT ESTABLISHMENT

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 22 | 95 |


 LICENSED LANDSCAPE ARCHITECT
 5-12-14
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 KEVIN GALLO
 GLORIA RAMIREZ
 REVISOR BY
 DATE REVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY
 BRAD COLE

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
PP-1

SCALE: 1"=50'



**IRRIGATION SUBTOTALS PER PLAN SHEET
ON MAIN SUPPLY SIDE OF CONTROL VALVE**

| DESCRIPTION | UNIT | SHEET NUMBER | | | | | | | | | | | | | | | | SUBTOTALS |
|-----------------------------|-------------|--------------|----|-----|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----------|
| | | IP-1 | | | | | | | | | | | | | | | | |
| VALVES AND ASSEMBLIES | RCV | 1" | EA | 3 | | | | | | | | | | | | | 3 | |
| | RCV | 1 1/2" | EA | 1 | | | | | | | | | | | | | 1 | |
| | BSV | 2" | EA | 2 | | | | | | | | | | | | | 2 | |
| | WSA | 2" | EA | 2 | | | | | | | | | | | | | 2 | |
| | WSA | 2" | EA | 2 | | | | | | | | | | | | | 2 | |
| PLASTIC PIPE SUPPLY LINE | SCHEDULE 40 | 3/4 INCH | | | | | | | | | | | | | | | | |
| | | 1 INCH | | | | | | | | | | | | | | | | |
| | | 1 1/2 INCH | | | | | | | | | | | | | | | | |
| | | 3 INCH | LF | 190 | | | | | | | | | | | | | 190 | |

**IRRIGATION TOTAL QUANTITIES
FOR LATERAL AND MAIN**

| TOTALS | UNIT | DESCRIPTION |
|--------|------|---|
| 3 | EA | 1" |
| 1 | EA | 1 1/2" |
| 2 | EA | 2" |
| 2 | EA | 2" |
| 934 | LF | 3/4 INCH |
| 525 | LF | 1 INCH |
| 630 | LF | 1 1/2 INCH |
| 190 | LF | 3 INCH |
| 28 | EA | RISER SPRINKLER ASSEMBLY (GEAR DRIVEN) |
| 56 | EA | RISER SPRINKLER ASSEMBLY |

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 24 | 95 |


 LICENSED LANDSCAPE ARCHITECT
 5-12-14
 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.



WOOD MULCH

| SHEET | LOCATION | AREA (3" DEPTH) | BASIN |
|-------|----------|--------------------|--------|
| | | CY | CY |
| PL-1 | SR 178 | | 2.24 |
| PP-1 | SR 178 | 148 | |
| TOTAL | | | 150.24 |



LEGEND:

1 120/240 V, 1 ϕ , 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:

CITY SERVICE (SUNNY LANE AND HEIGHT ST)

| AMPERES | VOLTS | POLES | NAMEPLATE | METER | PHOTOELECTRIC CONTROL TYPE |
|---------|-------|-------|----------------|-------|----------------------------|
| 100 | 240 | 2 | MAIN BREAKER | YES | --- |
| 50 | 120 | 1 | TRAFFIC SIGNAL | YES | --- |
| 20 | 120 | 1 | SPARE | YES | --- |
| --- | --- | 6 | SPACE | --- | --- |

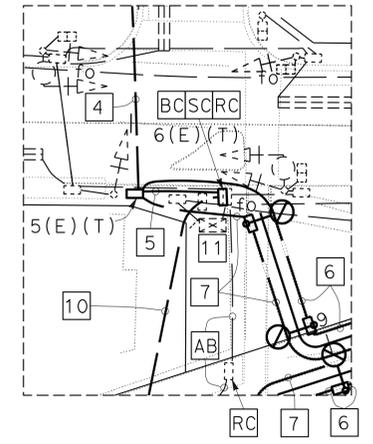
| AMPERES | VOLTS | POLES | NAMEPLATE | METER | PHOTOELECTRIC CONTROL TYPE |
|---------|-------|-------|-------------------------------|-------|----------------------------|
| 100 | 240 | 2 | MAIN BREAKER | YES | --- |
| 30 | 120 | 1 | STREET LIGHTING | YES | V |
| 15 | 120 | 1 | LIGHTING CONTROL (STREET Ltg) | YES | --- |
| 30 | 240 | 2 | Ped Ltg E | YES | V |
| 15 | 120 | 1 | LIGHTING CONTROL (Ped Ltg E) | YES | --- |
| 30 | 240 | 2 | Ped Ltg W | YES | V |
| 15 | 120 | 1 | LIGHTING CONTROL (Ped Ltg W) | YES | --- |

ABBREVIATIONS:

PG&E PACIFIC GAS AND ELECTRIC COMPANY

SYMBOLS:

- Ltg STANDARD ON STRUCTURE WITH LED Ped LUMINAIRE
- Exist Ltg STANDARD ON STRUCTURE

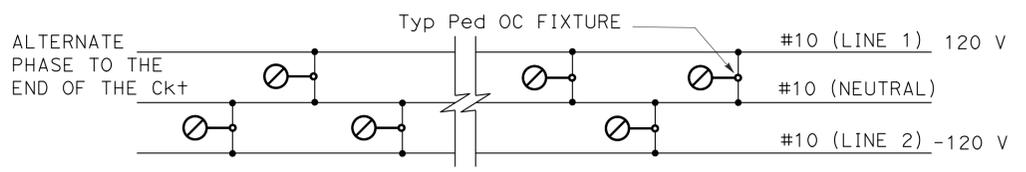


DETAIL A
NO SCALE

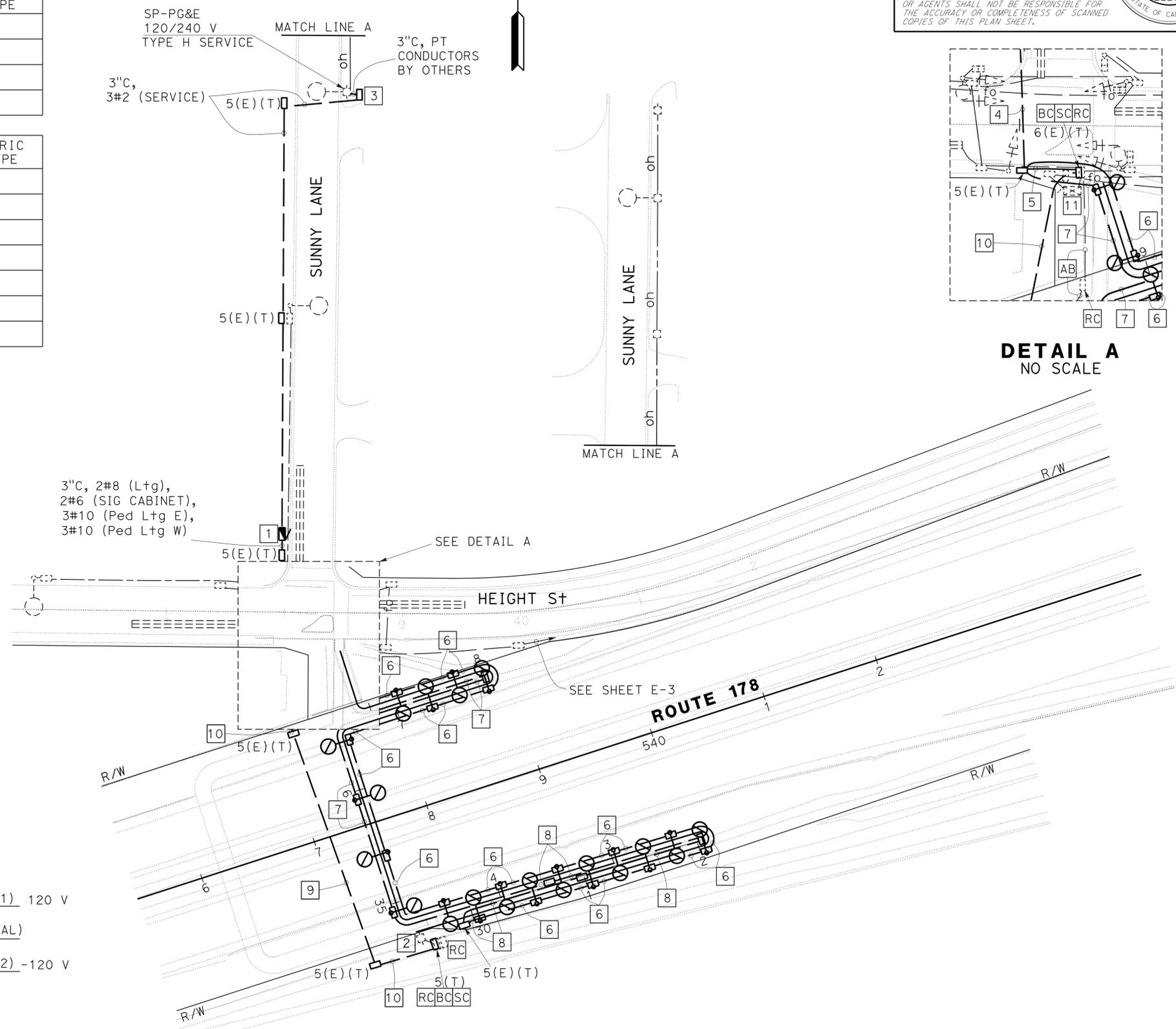
- 2 TWO Exist Type A SERVICES ON A WOOD POLE.
RC Exist SERVICES ONCE NEW SERVICE IS ENERGIZED.
- 3 PULL BOX PER PG&E REQUIREMENTS.
- 4 3"C, 2#6 (SIG CABINET), 2#8 (Ltg), 3#10 (Ped Ltg E), 3#10 (Ped Ltg W).
- 5 3"C, 2#6 (SIG CABINET), 2#8 (Ltg)
- 6 1 1/2"C, 3#10 (Ped Ltg E).
- 7 1 1/2"C, 3#10 (Ped Ltg W).
- 8 1 1/2"C, PT.
- 9 3"C, 2#6 (SIG CABINET), 2#8 (STREET Ltg).
CF ONCE NEW SERVICE IS ENERGIZED.
- 10 2"C, 2#6 (SIG CABINET), 2#8 (STREET Ltg).
AB ONCE NEW SERVICE IS ENERGIZED.
- 11 Exist CONTROLLER CABINET.

NOTES:

- INSTALL Ltg STANDARDS AND 1 1/2"C (TYPE 1) ON BOTH SIDES OF Ped OC STRUCTURE. FOR MORE DETAILS REFER TO WIRING DIAGRAM BELOW.
- SEE STRUCTURE PLANS FOR DETAILS OF ELECTRICAL EQUIPMENT ON Ped OC.
- ALL PULL BOXES SHALL BE No. 9 UNLESS OTHERWISE NOTED.
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



WIRING DIAGRAM
NO SCALE



(Br No. 50-0517)

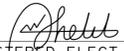
APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING (CITY STREET)
E-1

SCALE 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Electrans ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
 CALCULATED/DESIGNED BY: HASHIM MOHAMED KHALID
 CHECKED BY: OMAR MENDOZA
 REVISED BY: _____ DATE REVISED: _____

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 26 | 95 |

 5-12-14
 REGISTERED ELECT ENGINEER DATE
 5-12-14
 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.

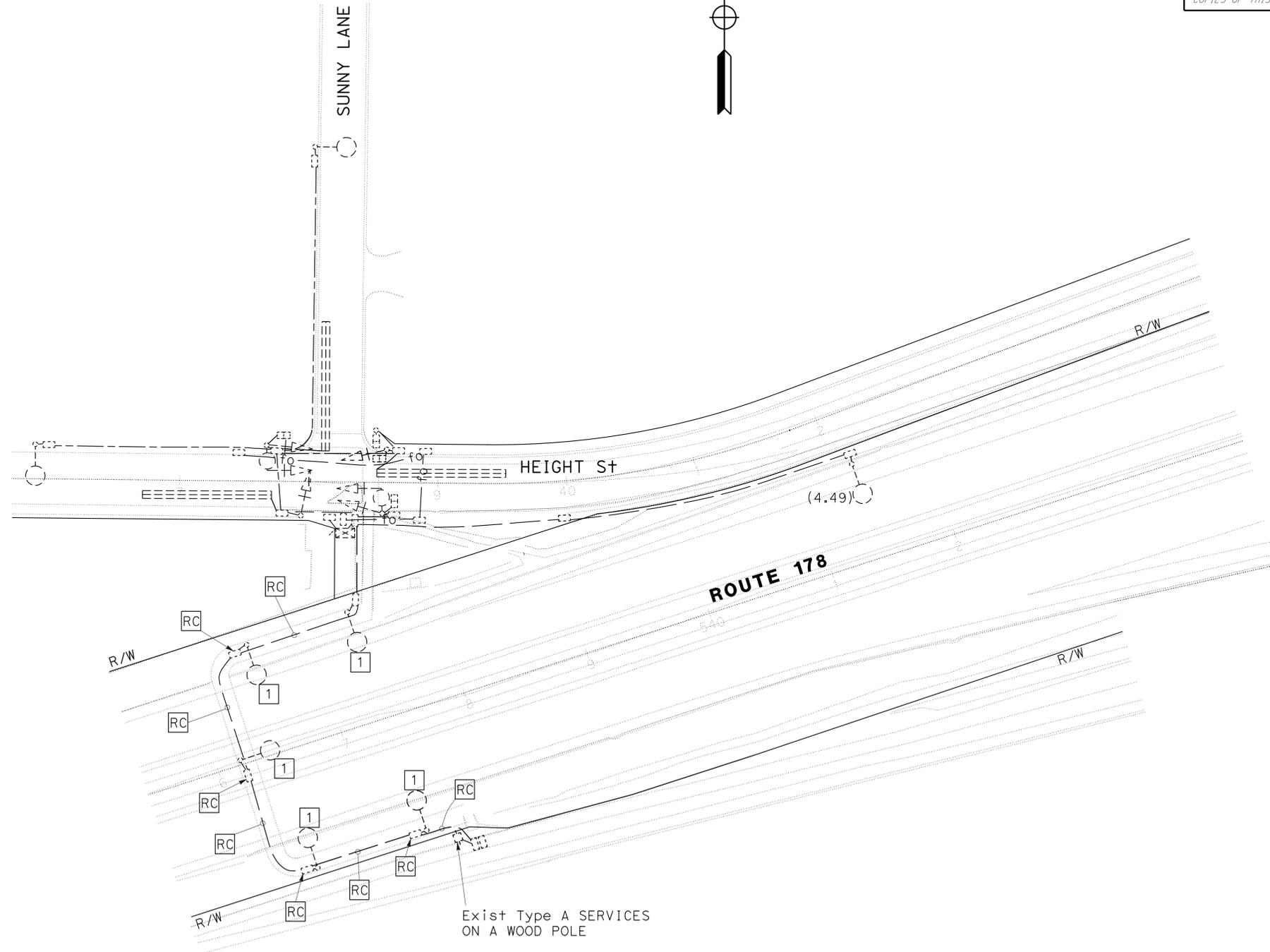
REGISTERED PROFESSIONAL ENGINEER
HASHIM KHALID
 No. 18054
 Exp. 6-30-15
 ELECT
 STATE OF CALIFORNIA

LEGEND:

1 RS Exist+ ELECTROLIERS TO THE CITY OF BAKERSFIELD.

NOTES:

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



(Br No. 50-0517)

APPROVED FOR ELECTRICAL WORK ONLY

**LIGHTING (CITY STREET)
E-2**

SCALE 1"=50'

| | | | |
|--|-----------------------|------------------------|-----------------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | REVISOR |
| Caltrans ELECTRICAL DESIGN | ALT BAKHDOUD | CHECKED BY | HASHIM MOHAMED KHALID |
| | | | OMAR MENDOZA |
| | | | DATE REVISED |

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 27 | 95 |

| | |
|---------------------------|---------|
| <i>Hashim</i> | 5-12-14 |
| REGISTERED ELECT ENGINEER | DATE |
| 5-12-14 | |
| PLANS APPROVAL DATE | |

| |
|----------------------------------|
| REGISTERED PROFESSIONAL ENGINEER |
| HASHIM KHALID |
| No. 18054 |
| Exp. 6-30-15 |
| ELECT |
| STATE OF CALIFORNIA |

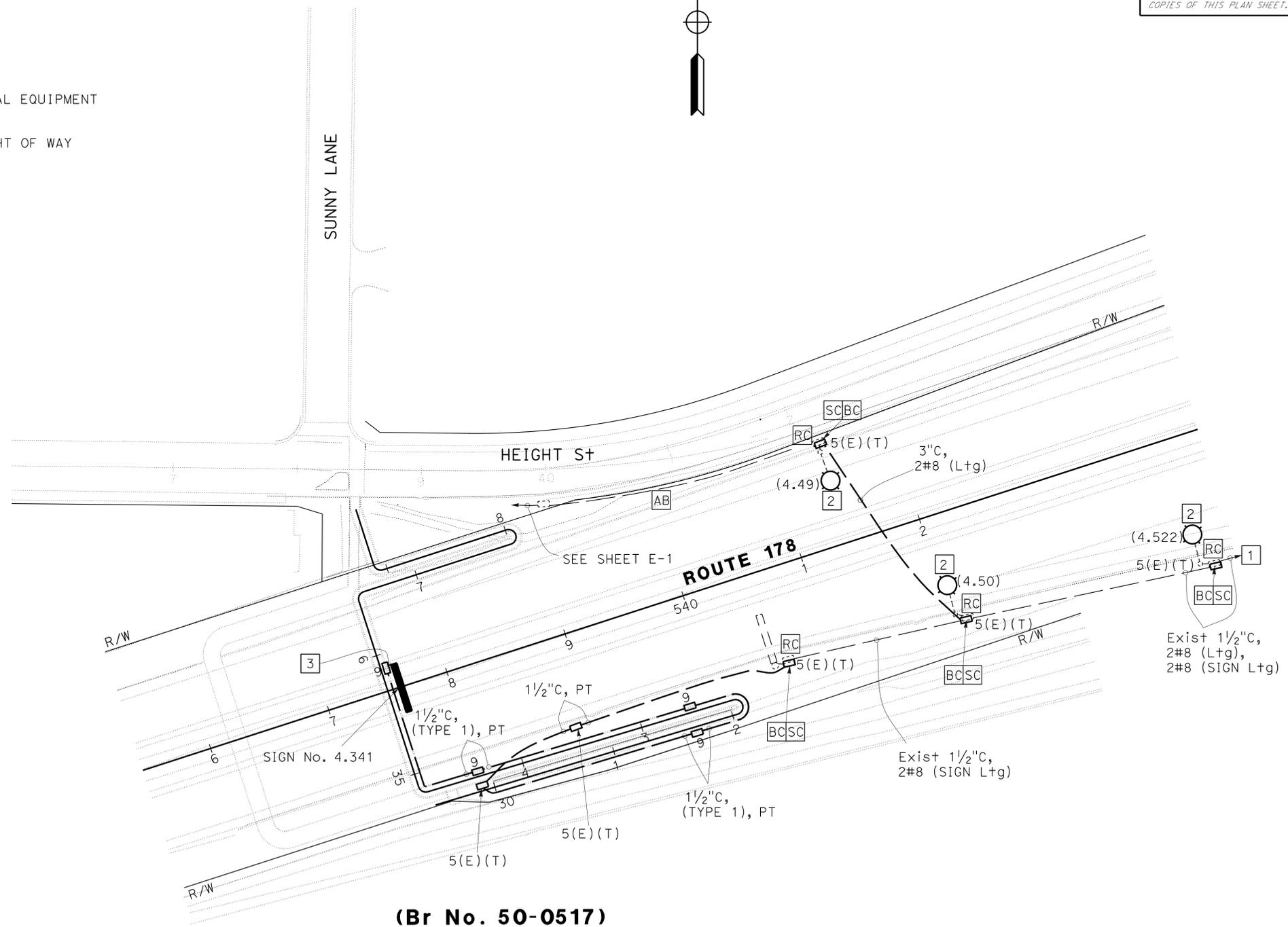
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- 1 APPROX 700' TO Exist SERVICE CABINET ON THE SOUTH SIDE OF EB ROUTE 99 OFF RAMP, JUST WEST OF Mt VERNON Ave.
- 2 RS Exist 310 W HPS LUMINAIRE. INSTALL 235 W LED LUMINAIRE.
- 3 1" CONDUIT FOR FUTURE OH SIGN LIGHTING.

NOTES:

- 1. SEE STRUCTURE PLANS FOR DETAILS OF ELECTRICAL EQUIPMENT ON Ped OC.
- 2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



(Br No. 50-0517)

APPROVED FOR ELECTRICAL WORK ONLY

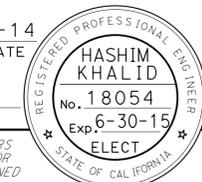
SCALE 1"=50'

**MODIFY LIGHTING
E-3**

| | | | |
|--|-----------------------|-----------------------|-----------------------|
| STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | FUNCTIONAL SUPERVISOR | DESIGNED BY | REVISOR |
| Caltrans ELECTRICAL DESIGN | ALT BAKHDOUD | HASHIM MOHAMED KHALID | HASHIM MOHAMED KHALID |
| | | CHECKED BY | DATE REVISED |
| | | OMAR MENDOZA | |

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 28 | 95 |

REGISTERED ELECT ENGINEER DATE 5-12-14
 5-12-14
 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.

NOTE:

ITEMS SHOWN IN TABLES ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

LIGHTING (CITY STREET)

| SHEET No. | No. 2 CONDUCTOR | No. 6 CONDUCTOR | No. 10 CONDUCTOR | No. 8 CONDUCTOR | 3" C, TYPE 3 | 2" C, TYPE 3 | 1 1/2" C, TYPE 1 | 3" C, TYPE 1 | No. 8 CONDUCTOR (G) |
|-----------|-----------------|-----------------|------------------|-----------------|--------------|--------------|------------------|--------------|---------------------|
| E-1 | LF | | | | | | | | |
| | 1,300 | 950 | 4,650 | 950 | 745 | 140 | 2,030 | 10 | 2,500 |

LIGHTING (CITY STREET)

| SHEET No. | Ltg STANDARD WITH LED LUMINAIRE | No. 9 PB | PB PER UTILITY REQUIREMENT | TYPE III-CF CABINET | TYPE III-CF FOUNDATION | No. 5(E)(T) PB | No. 5(T) PB | No. 6(E)(T) PB |
|-----------|---------------------------------|----------|----------------------------|---------------------|------------------------|----------------|-------------|----------------|
| E-1 | EA | | | | | | | |
| | 21 | 25 | 1 | 1 | 1 | 7 | 1 | 1 |

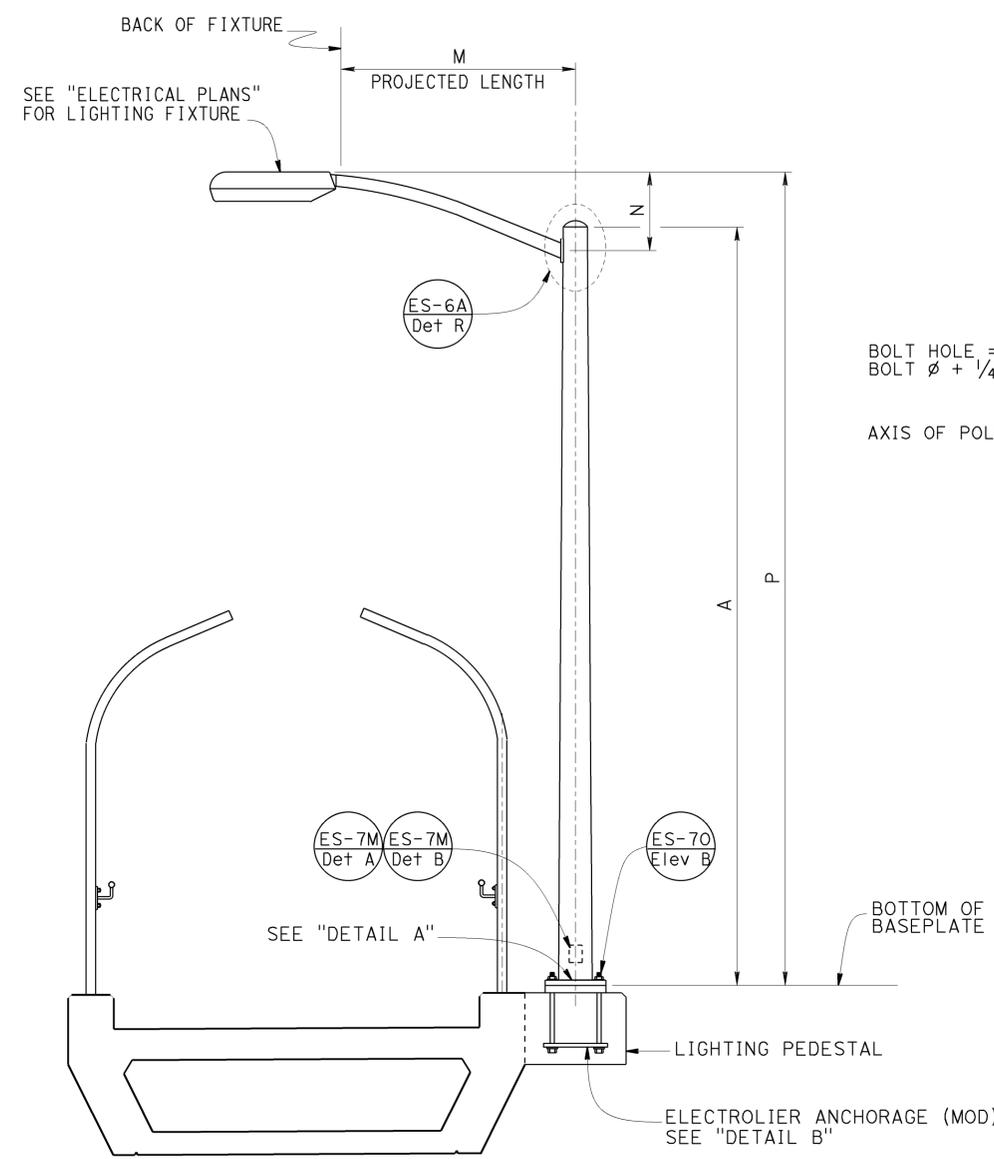
MODIFY LIGHTING

| SHEET No. | No. 8 CONDUCTOR | No. 8 CONDUCTOR (G) | 3" C, TYPE 3 | 1 1/2" C, TYPE 3 | 1 1/2" C, TYPE 1 | 1" C, TYPE 1 | No. 9 PB | No. 5(E)(T) PB | LED LUMINAIRE |
|-----------|-----------------|---------------------|--------------|------------------|------------------|--------------|----------|----------------|---------------|
| E-3 | LF | | | | | | | | |
| | 390 | 195 | 190 | 260 | 590 | 10 | 4 | 6 | 3 |

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
 CALCULATED/DESIGNED BY: HASHIM MOHAMED KHALID
 CHECKED BY: OMAR MENDOZA
 REVISED BY: DATE REVISED:

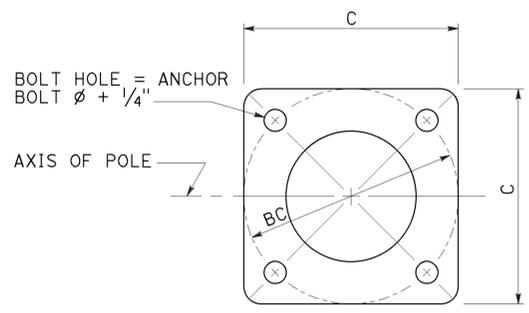
ELECTRICAL QUANTITIES E-4

LAST REVISION DATE PLOTTED => 23-AUG-2014
 05-12-14 TIME PLOTTED => 17:34

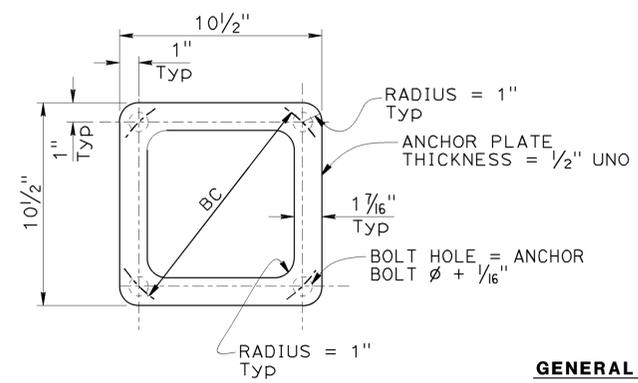


**TYPE 15 (MOD) BRIDGE MOUNTED
ELEVATION**

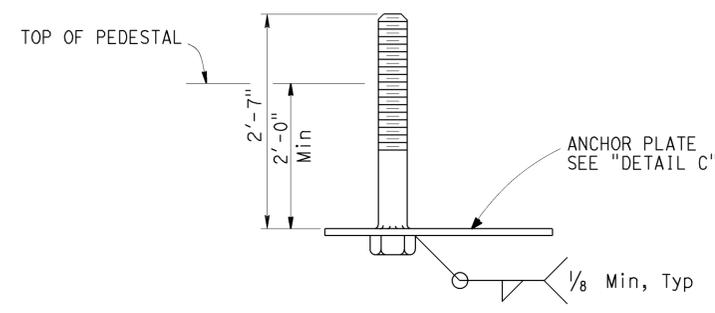
NOTE: Bridge and Lighting Pedestal configuration may vary.



**BASE PLATE
DETAIL A**



**ANCHOR PLATE
DETAIL C**



**ELECTROLIER ANCHORAGE (MODIFIED)
DETAIL B**

GENERAL NOTES:

SPECIFICATIONS

Design: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, Fifth Edition.

LOADING

Wind Loading: 100 MPH

UNIT STRESSES

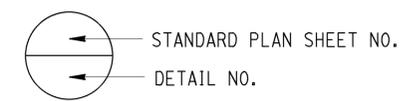
Structural steel: $f_y = 55,000$ psi (Tapered steel tube and anchor bolts)
 $f_y = 50,000$ psi unless otherwise noted

NOTES:

- For pole locations, see "ELECTRICAL" plans.
- All steel shall be galvanized after fabrication.
- During pole erection the pole shall be raked as necessary with the use of leveling nuts to provide a plumb pole axis.
- For Anchor Details not shown see "DETAIL A" on "2010 STANDARD PLANS" ES-7M.
- This plan accurate only for lighting pole and anchorage. For bridge and lighting pedestal details see "BRIDGE PLANS".
- For details not shown, see "2010 STANDARD PLANS".

| POLE TYPE | POLE DATA | | | | BASE PLATE DATA | | | | LUMINAIRE MAST ARM DATA | | | | |
|---------------|-----------|--------|----------|-----------|-----------------|------------------|-----------|-------------------|-------------------------|-------------|----------------|-----------|--------------|
| | A HEIGHT | Min OD | | THICKNESS | C | BC = BOLT CIRCLE | THICKNESS | ANCHOR BOLT SIZE | M PROJECTED LENGTH | N RISE | Min OD AT POLE | THICKNESS | P |
| | | BASE | TOP | | | | | | | | | | |
| 15 (MODIFIED) | 15'-0" | 8" | 5 13/16" | 0.1196" | 1'-0" | 1'-0" | 2" | 1" ϕ x 2'-7" | 4'-9" | 1'-6" \pm | 3/4" | 0.1196" | 16'-0" \pm |

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



NO SCALE

| | | | | | | | |
|-----------------------------------|---------------------------------|-------------------------------|---|--|-----------------------|--|-------|
| BRANCH CHIEF JEFF WOODY | DESIGN BY J. JAUREGUI | CHECKED E. LOPEZ | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH A | BRIDGE NO. 50-0517 | SUNNY LANE PEDESTRIAN OC TYPE 15 MODIFIED - DETAILS | SES-1 |
| | DETAILS BY T. NGUYEN | CHECKED J. JAUREGUI | | | POST MILE R 4.4 | | |
| | QUANTITIES BY | CHECKED | | | | | |

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3 UNIT: 3619 PROJECT NUMBER & PHASE: 0614000265-1 CONTRACT NO.: 06-0H6414 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 0/30/13 11/8/13 2/26/13 6/2/14 SHEET OF

| | | |
|------------|--|--|
| | M | |
| Maint | MAINTENANCE | |
| Max | MAXIMUM | |
| MB | METAL BEAM | |
| MBB | METAL BEAM BARRIER | |
| MBGR | METAL BEAM GUARD RAILING | |
| Med | MEDIAN | |
| MGS | MIDWEST GUARDRAIL SYSTEM | |
| MH | MANHOLE | |
| Min | MINIMUM | |
| Misc | MISCELLANEOUS | |
| Misc I & S | MISCELLANEOUS IRON AND STEEL | |
| Mkr | MARKER | |
| Mod | MODIFIED, MODIFY | |
| Mon | MONUMENT | |
| MP | METAL PLATE | |
| MPGR | METAL PLATE GUARD RAILING | |
| MR | MOVEMENT RATING | |
| MSE | MECHANICALLY STABILIZED EMBANKMENT | |
| Mt | MOUNTAIN, MOUNT | |
| MtI | MATERIAL | |
| MVP | MAINTENANCE VEHICLE PULLOUT | |
| | N | |
| N | NORTH | |
| NB | NORTHBOUND | |
| No. | NUMBER (MUST HAVE PERIOD) | |
| Nos. | NUMBERS (MUST HAVE PERIOD) | |
| NPS | NOMINAL PIPE SIZE | |
| NS | NEAR SIDE | |
| NSP | NEW STANDARD PLAN | |
| NTS | NOT TO SCALE | |
| | O | |
| Obir | OBLITERATE | |
| OC | OVERCROSSING | |
| OD | OUTSIDE DIAMETER | |
| OF | OUTSIDE FACE | |
| OG | ORIGINAL GROUND | |
| OGAC | OPEN GRADED ASPHALT CONCRETE | |
| OGFC | OPEN GRADED FRICTION COURSE | |
| OH | OVERHEAD | |
| OHWM | ORDINARY HIGH WATER MARK | |
| O-O | OUT TO OUT | |
| Opp | OPPOSITE | |
| OSD | OVERSIDE DRAIN | |
| | P | |
| p | PAGE | |
| PAP | PERFORATED ALUMINUM PIPE | |
| PB | PULL BOX | |
| PC | POINT OF CURVATURE, PRECAST | |
| PCC | POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE | |
| PCMS | PORTABLE CHANGEABLE MESSAGE SIGN | |
| PCP | PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE | |
| PCVC | POINT OF COMPOUND VERTICAL CURVE | |
| PEC | PERMIT TO ENTER AND CONSTRUCT | |
| Ped | PEDESTRIAN | |
| Ped OC | PEDESTRIAN OVERCROSSING | |
| Ped UC | PEDESTRIAN UNDERCROSSING | |
| Perm MtI | PERMEABLE MATERIAL | |

| | | |
|---------|---|--|
| | P continued | |
| PG | PROFILE GRADE | |
| PI | POINT OF INTERSECTION | |
| PJP | PARTIAL JOINT PENETRATION | |
| Pkwy | PARKWAY | |
| PL, PL | PLATE | |
| P/L | PROPERTY LINE | |
| PM | POST MILE, TIME FROM NOON TO MIDNIGHT | |
| PN | PAVING NOTCH | |
| POC | POINT OF HORIZONTAL CURVE | |
| POT | POINT OF TANGENT | |
| POVC | POINT OF VERTICAL CURVE | |
| PP | PIPE PILE, PLASTIC PIPE, POWER POLE | |
| PPL | PREFORMED PERMEABLE LINER | |
| PPP | PERFORATED PLASTIC PIPE | |
| PRC | POINT OF REVERSE CURVE | |
| PRF | PAVEMENT REINFORCING FABRIC | |
| PRVC | POINT OF REVERSE VERTICAL CURVE | |
| PS&E | PLANS, SPECIFICATIONS AND ESTIMATES | |
| PS, P/S | PRESTRESSED | |
| PSP | PERFORATED STEEL PIPE | |
| PT | POINT OF TANGENCY | |
| PVC | POLYVINYL CHLORIDE | |
| Pvmt | PAVEMENT | |
| | Q | |
| Qty | QUANTITY | |
| | R | |
| R | RADIUS | |
| R & D | REMOVE AND DISPOSE | |
| R & S | REMOVE AND SALVAGE | |
| R/C | RATE OF CHANGE | |
| RCA | REINFORCED CONCRETE ARCH | |
| RCB | REINFORCED CONCRETE BOX | |
| RCP | REINFORCED CONCRETE PIPE | |
| RCPA | REINFORCED CONCRETE PIPE ARCH | |
| Rd | ROAD | |
| Reinf | REINFORCED, REINFORCEMENT, REINFORCING | |
| Rel | RELOCATE | |
| Repl | REPLACEMENT | |
| Ret | RETAINING | |
| Rev | REVISED, REVISION | |
| Rdwy | ROADWAY | |
| RHMA | RUBBERIZED HOT MIX ASPHALT | |
| Riv | RIVER | |
| RM | ROAD-MIXED | |
| RP | RADIUS POINT, REFERENCE POINT | |
| RR | RAILROAD | |
| RSP | ROCK SLOPE PROTECTION, REVISED STANDARD PLAN | |
| Rt | RIGHT | |
| Rte | ROUTE | |
| RW | REDWOOD, RETAINING WALL | |
| R/W | RIGHT OF WAY | |
| Rwy | RAILWAY | |

| | | |
|-------|----------------------------------|--|
| | S | |
| S | SOUTH, SUPPLEMENT | |
| SAE | STRUCTURE APPROACH EMBANKMENT | |
| Salv | SALVAGE | |
| SAPP | STRUCTURAL ALUMINUM PLATE PIPE | |
| SB | SOUTHBOUND | |
| SC | SAND CUSHION | |
| SCSP | SLOTTED CORRUGATED STEEL PIPE | |
| SD | STORM DRAIN | |
| Sec | SECOND, SECTION | |
| Sep | SEPARATION | |
| SG | SUBGRADE | |
| Shld | SHOULDER | |
| Sht | SHEET | |
| Sim | SIMILAR | |
| SL | STATION LINE | |
| SM | SELECTED MATERIAL | |
| Spec | SPECIAL, SPECIFICATIONS | |
| SPP | SLOTTED PLASTIC PIPE | |
| SS | SLOPE STAKE | |
| SSBM | STRAP AND SADDLE BRACKET METHOD | |
| SSD | STRUCTURAL SECTION DRAIN | |
| SSPA | STRUCTURAL STEEL PLATE ARCH | |
| SSPP | STRUCTURAL STEEL PLATE PIPE | |
| SSPPA | STRUCTURAL STEEL PLATE PIPE ARCH | |
| SSRP | STEEL SPIRAL RIB PIPE | |
| St | STREET | |
| Sta | STATION | |
| STBB | SINGLE THRIE BEAM BARRIER | |
| Std | STANDARD | |
| Str | STRUCTURE | |
| Surf | SURFACING | |
| SW | SIDEWALK, SOUND WALL | |
| Swr | SEWER | |
| Sym | SYMMETRICAL | |
| S4S | SURFACE 4 SIDES | |
| | T | |
| T | SEMI-TANGENT | |
| Tan | TANGENT | |
| TBB | THRIE BEAM BARRIER | |
| Tbr | TIMBER | |
| TC | TOP OF CURB | |
| TCB | TRAFFIC CONTROL BOX | |
| TCE | TEMPORARY CONSTRUCTION EASEMENT | |
| TeI | TELEPHONE | |
| Temp | TEMPORARY | |
| TG | TOP OF GRADE | |
| Tot | TOTAL | |
| TP | TELEPHONE POLE | |
| TPB | TREATED PERMEABLE BASE | |
| TPM | TREATED PERMEABLE MATERIAL | |
| Trans | TRANSITION | |

| | | |
|-------|---|----------|
| | T continued | |
| TS | TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL | |
| Typ | TYPICAL | U |
| UC | UNDERCROSSING | |
| UD | UNDERDRAIN | |
| UG | UNDERGROUND | |
| UON | UNLESS OTHERWISE NOTED | |
| UP | UNDERPASS | V |
| V | VALVE, DESIGN SPEED | |
| Var | VARIABLE, VARIES | |
| VC | VERTICAL CURVE | |
| VCP | VITRIFIED CLAY PIPE | |
| Vert | VERTICAL | |
| Via | VIADUCT | |
| Vol | VOLUME | W |
| W | WEST, WIDTH | |
| WB | WESTBOUND | |
| WH | WEEP HOLE | |
| WM | WIRE MESH | |
| WS | WATER SURFACE | |
| WSP | WELDED STEEL PIPE | |
| Wt | WEIGHT | |
| WV | WATER VALVE | |
| WW | WINGWALL | |
| WWLOL | WINGWALL LAYOUT LINE | X |
| X Sec | CROSS SECTION | |
| Xing | CROSSING | Y |
| Yr | YEAR | |
| Yrs | YEARS | |

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 30 | 95 |

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Grace M. Tsushima
 No. C49814
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-12-14

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

| TABLE A | |
|-------------|--------------|
| SYMBOL USED | DEFINITIONS |
| ACRE | ACRE |
| CF | CUBIC FOOT |
| CY | CUBIC YARD |
| EA | EACH |
| GAL | GALLON |
| LB | POUND |
| LF | LINEAR FOOT |
| SQFT | SQUARE FOOT |
| SQYD | SQUARE YARD |
| STA | 100 FEET |
| TAB | TABLET |
| TON | 2,000 POUNDS |

Some of the symbols used in the plans other than in the project plan quantity tables are:

| TABLE B | |
|--------------------------|------------------------|
| SYMBOL USED | DEFINITIONS |
| ksi | KIPS PER SQUARE INCH |
| ksf | KIPS PER SQUARE FOOT |
| psi | POUNDS PER SQUARE INCH |
| psf | POUNDS PER SQUARE FOOT |
| lb/ft ³ , pcf | POUNDS PER CUBIC FOOT |
| tsf | TONS PER SQUARE FOOT |
| mph, MPH * | MILES PER HOUR |
| ø | NOMINAL DIAMETER |
| oz | OUNCE |
| lb | POUND |
| kíp | 1,000 POUNDS |
| cal | CALORIE |
| ft | FOOT OR FEET |
| gal | GALLON |

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 31 | 95 |

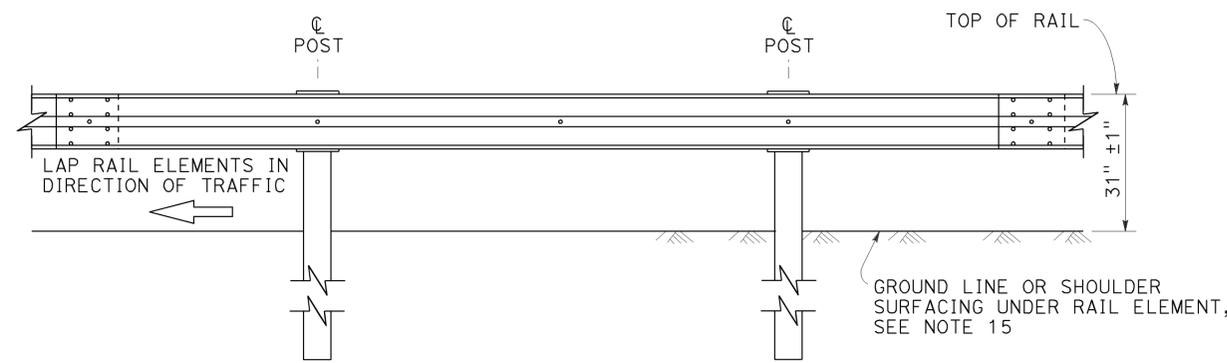
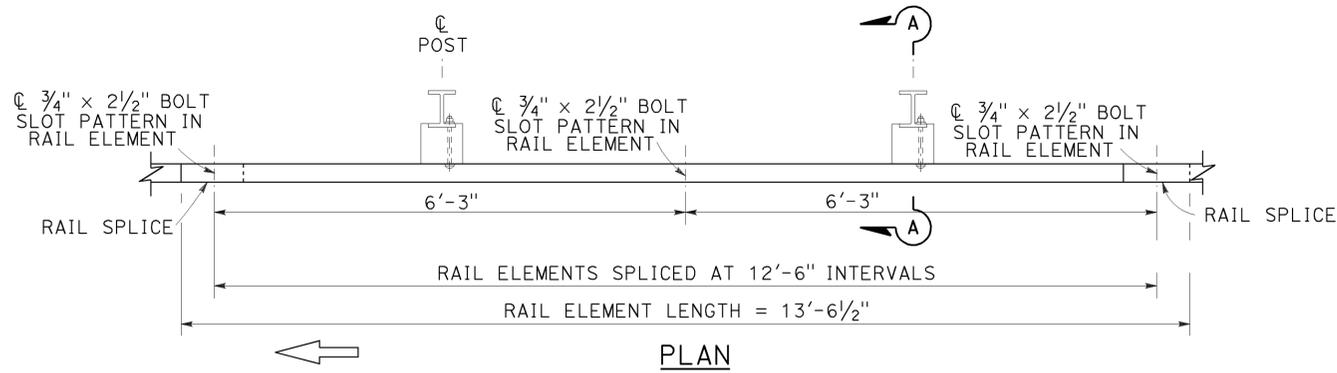
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

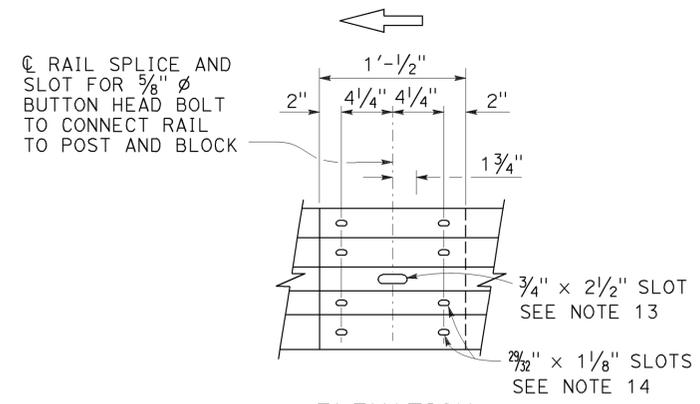
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TO ACCOMPANY PLANS DATED 5-12-14

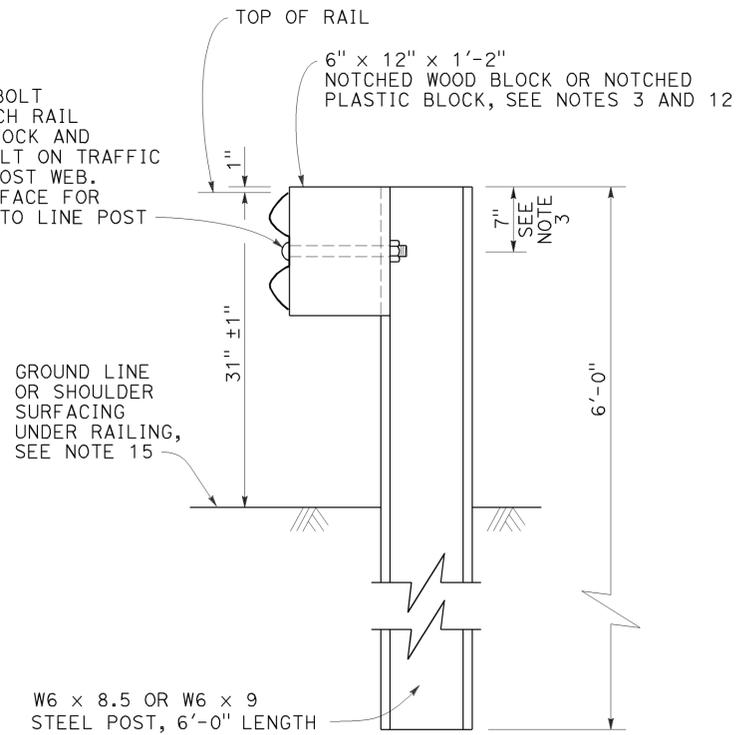
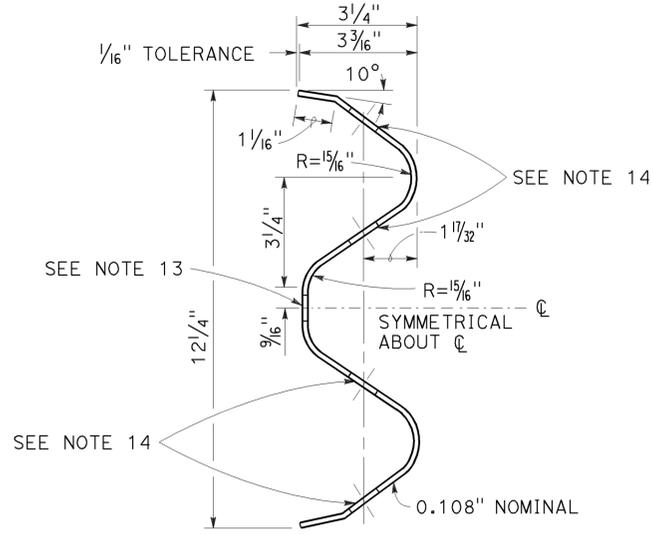
2010 REVISED STANDARD PLAN RSP A77L2



MIDWEST GUARDRAIL SYSTEM WITH STEEL POSTS AND NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCKS



- Connect the overlapped end of the rail elements with 5/8" ϕ x 1 3/8" button head oval shoulder splice bolts inserted into the 7/32" x 1 1/8" slots and bolted together with 5/8" ϕ recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.



SECTION A-A
TYPICAL STEEL LINE POST INSTALLATION
See Note 4

NOTES:

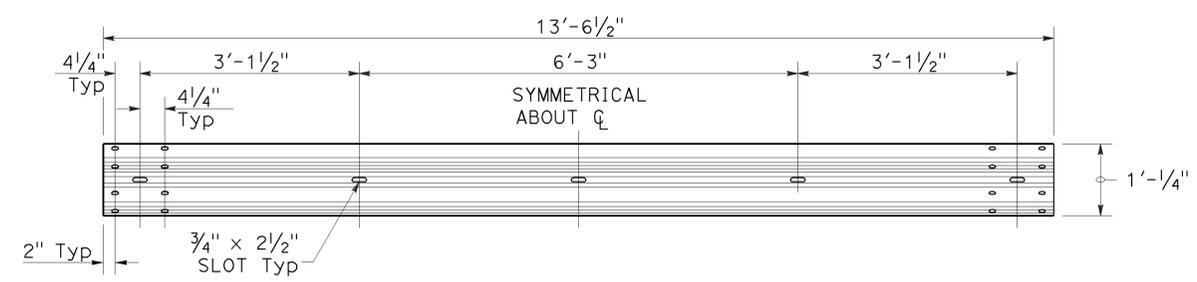
- For details of wood post installations, see Revised Standard Plan RSP A77L1.
- For details of standard hardware used to construct MGS, see Revised Standard Plan RSP A77M1.
- For details of steel posts and notched wood blocks used to construct MGS, see Revised Standard Plan RSP A77N2.
- For additional installation details, see Revised Standard Plan RSP A77N3.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- For MGS typical layouts, see the A77P, A77Q and A77R Series of Standard Plans.
- If railing is connected to terminal system end treatment, use 31" height terminal system end treatment.
- For MGS end anchor details, see Revised Standard Plans RSP A77S1 and RSP A77T2.
- For details of MGS transition to bridge railing, see Revised Standard Plan RSP A77U4.
- For additional details of MGS connection to bridge railings, see Revised Standard Plans RSP A77U1, RSP A77U2 and RSP A77V1.
- For dike positioning and MGS delineation details, see Revised Standard Plan RSP A77N4.
- Notched face of block faces steel post.
- Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
- Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
- Install posts in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM STANDARD RAILING SECTION (STEEL POST WITH NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCK)

NO SCALE

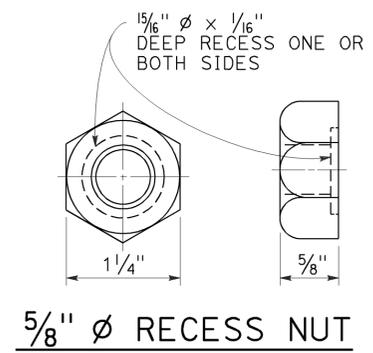
TO ACCOMPANY PLANS DATED 5-12-14



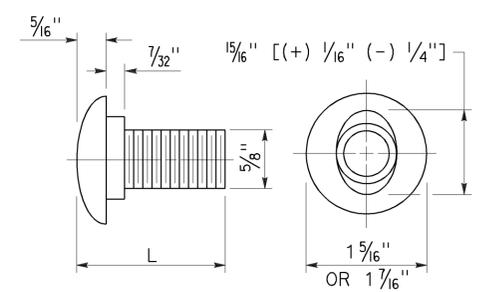
TYPICAL RAIL ELEMENT

NOTE:

1. Slotted holes for splice bolts to overlap ends of rail element.



5/8" ø RECESS NUT

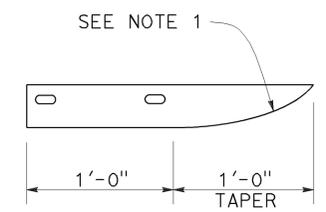


5/8" ø BUTTON HEAD BOLT

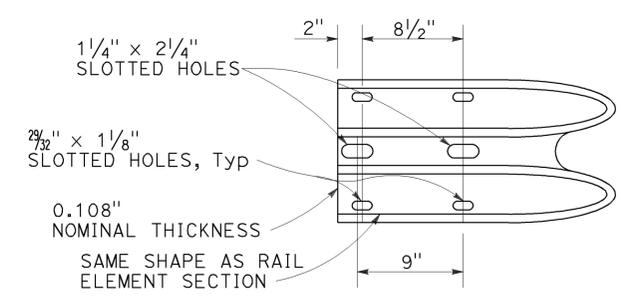
BUTTON HEAD BOLT

| L | THREAD LENGTH |
|-----------|----------------------|
| 1 3/8" | FULL THREAD LENGTH |
| 2" | FULL THREAD LENGTH |
| 10" | 4" Min THREAD LENGTH |
| 18" | 4" Min THREAD LENGTH |
| 20" | 4" Min THREAD LENGTH |
| 22" | 4" Min THREAD LENGTH |
| 26" | 4" Min THREAD LENGTH |
| 36" | 4" Min THREAD LENGTH |
| ** 2 3/4" | 2" Min THREAD LENGTH |
| ** 19" | 4" Min THREAD LENGTH |

** For nested rail applications.



PLAN



ELEVATION
 END CAP
 (TYPE A)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
 STANDARD HARDWARE

NO SCALE

RSP A77M1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77M1

2010 REVISED STANDARD PLAN RSP A77M1

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 33 | 95 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

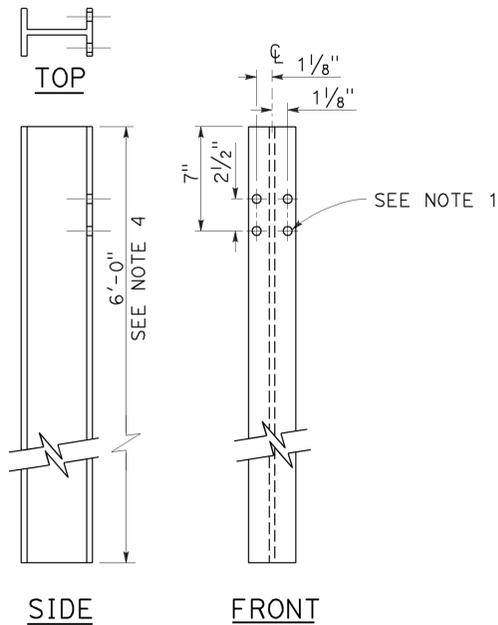
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TO ACCOMPANY PLANS DATED 5-12-14

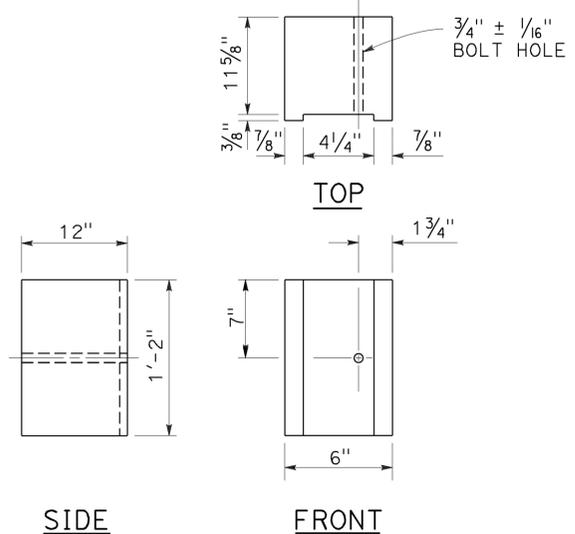
NOTES:

1. All holes in steel post shall be $\frac{13}{16}$ " Dia maximum.
2. Dimensions shown for wood block are nominal.
3. Notched face of block faces steel post.
4. 6'-0" length posts to be used for typical roadway installation. See Revised Standard Plan RSP A77N3.
5. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" notched wood blocks.
6. This post and 8" x 12" block combination to be used for line post sections of MGS on narrow roadways and where strengthened line post sections of MGS are warranted to shield fixed objects.

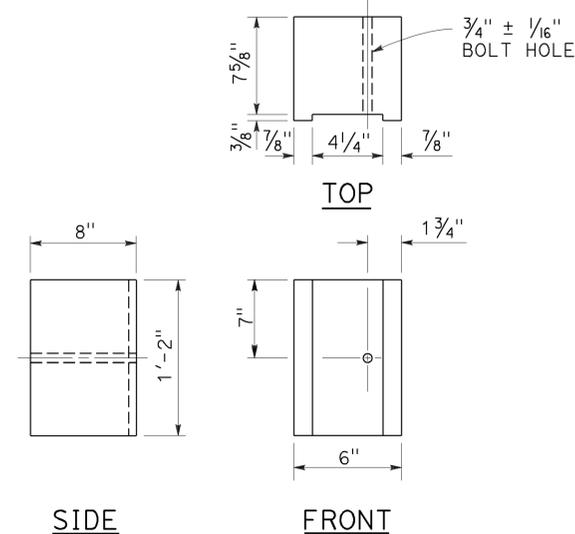
2010 REVISED STANDARD PLAN RSP A77N2



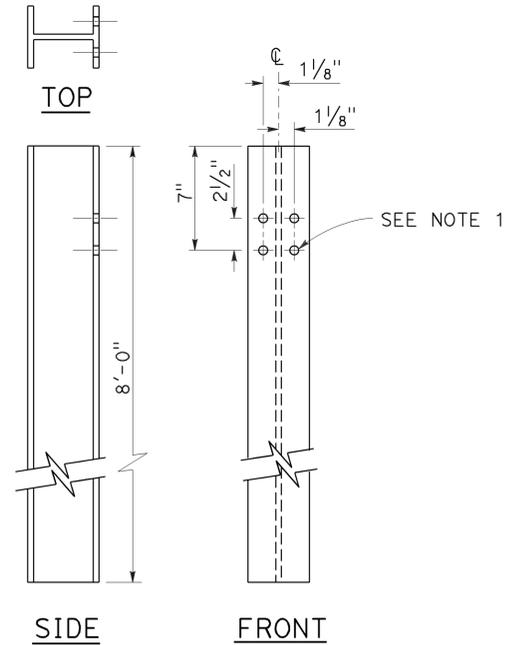
**W6 x 9 OR W6 x 8.5
STEEL POST**
See Note 4



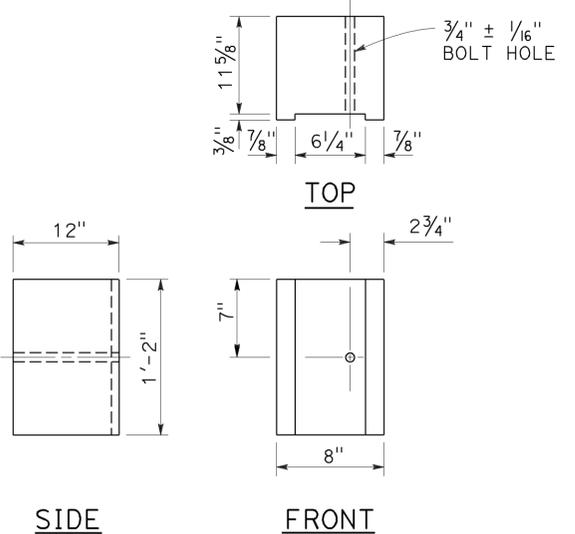
**6" x 12"
NOTCHED WOOD BLOCK**
See Notes 2 and 3



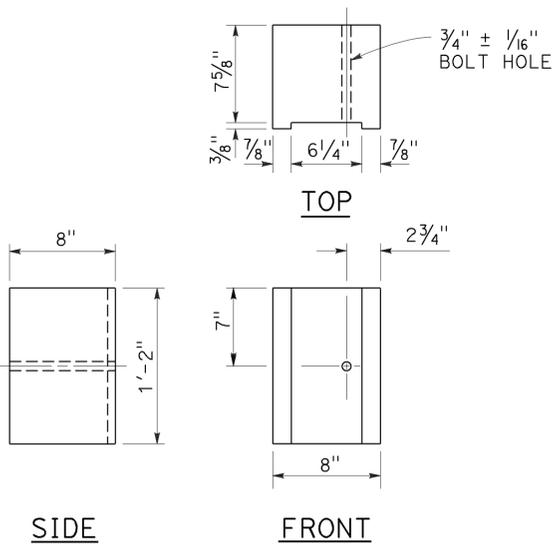
**6" x 8"
NOTCHED WOOD BLOCK**
Only for use with metal beam guard railing. See Note 5



**W6 x 15
STEEL POST**
See Note 6



**8" x 12"
NOTCHED WOOD BLOCK**
See Notes 2 and 3



**8" x 8"
NOTCHED WOOD BLOCK**
Only for use with metal beam guard railing. See Note 5

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
STEEL POST AND
NOTCHED WOOD BLOCK DETAILS**

NO SCALE

RSP A77N2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77N2
DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N2

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 34 | 95 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

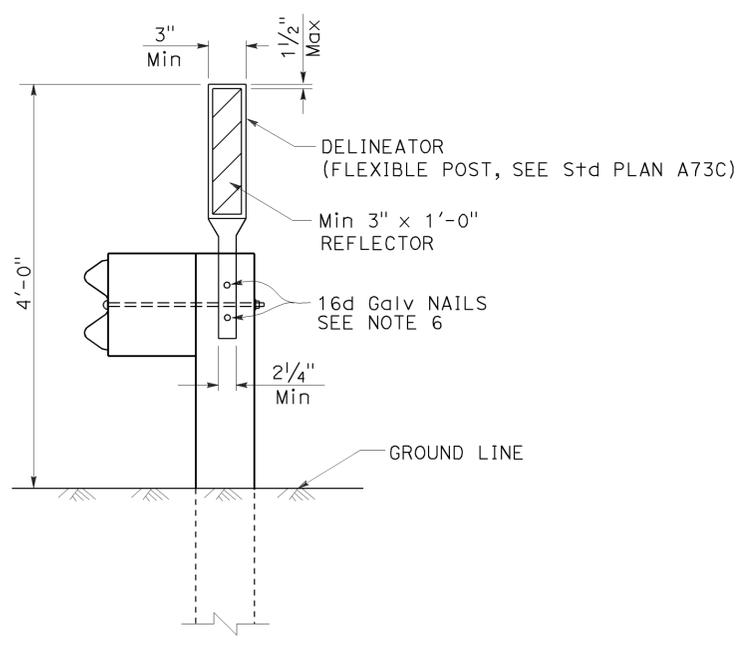
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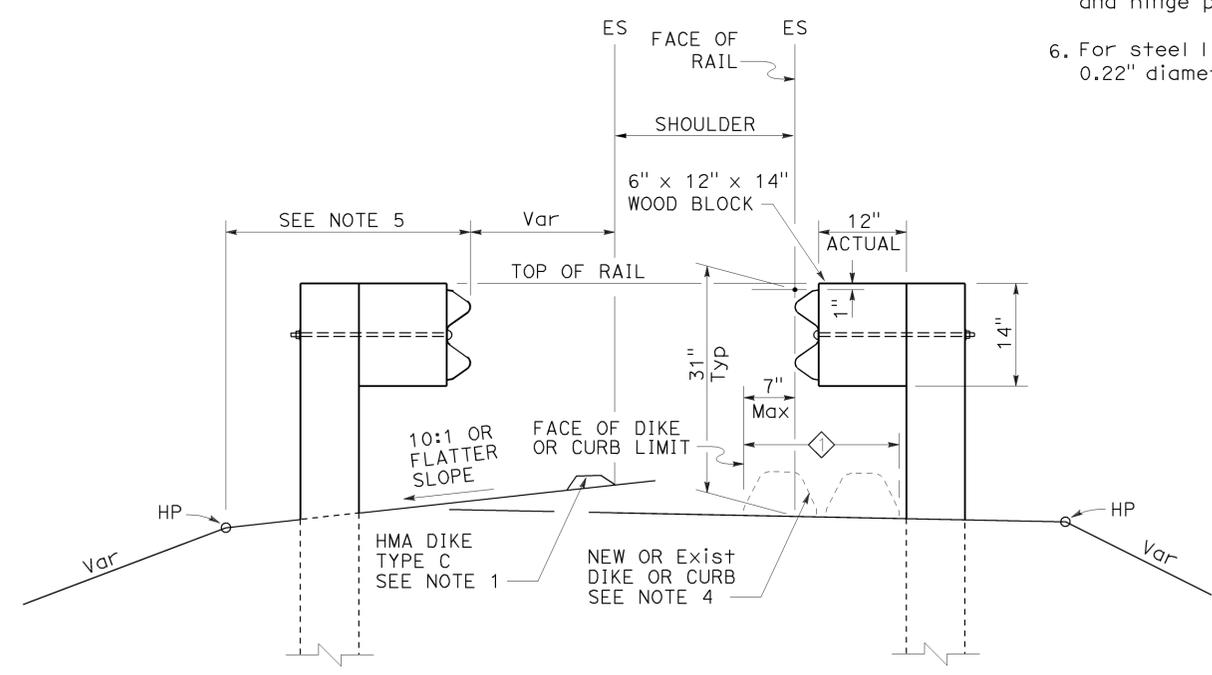
TO ACCOMPANY PLANS DATED 5-12-14

NOTES:

1. When necessary to place dike more than 7" in front of face of MGS, only Type C dike may be used. For dike details, see Revised Standard Plan RSP A87B.
2. For standard railing post embedment, see Revised Standard Plan RSP A77N3.
3. MGS delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under MGS, the maximum height of the dike or curb shall be 6". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and RSP A87B.
5. For details of typical distance between the face of rail and hinge point, see Revised Standard Plan RSP A77N3.
6. For steel line posts, use 1/4" - 20 self-tapping screws in 0.22" diameter holes or 1/4" bolts in 3/32" diameter holes.



MGS DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

◇ PERMISSIBLE DIKE OR CURB PLACEMENT AREA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TYPICAL RAILING DELINEATION
AND DIKE POSITIONING DETAILS**
NO SCALE

RSP A77N4 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A77N4

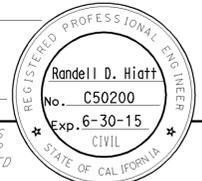
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|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 35 | 95 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

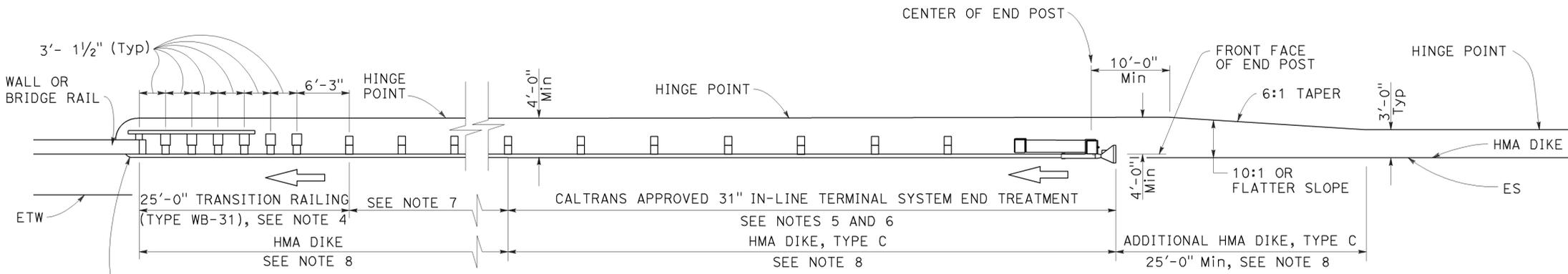
July 19, 2013
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TO ACCOMPANY PLANS DATED 5-12-14

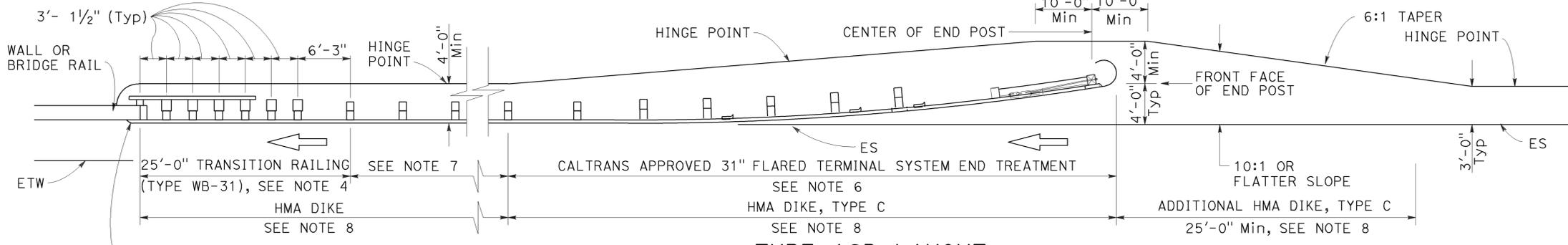


2010 REVISED STANDARD PLAN RSP A77Q1



TYPE 12A LAYOUT

(MGS installation at structure approach with 31" in-line end treatment at traffic approach end of railing)
See Notes 5 and 6
See Note 8



TYPE 12B LAYOUT

(MGS installation at structure approach with 31" Flared end treatment at traffic approach end of railing)
See Note 6
See Note 8

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans RSP A77L1, RSP A77L2, RSP A77M1, RSP A77N1 and RSP A77N2.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 12" x 1'-2" wood blocks. W6 x 8.5 or W6 x 9 steel posts, 6'-0" in length, with 6" x 12" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 12" x 1'-2" wood blocks where applicable and when specified.
- For Transition Railing (Type WB-31) details for Types 12A and 12B Layouts, see Revised Standard Plan RSP A77U4.
- 31" in-line terminal system end treatments are used where site conditions will not accommodate a 31" flared end treatment.
- The type 31" of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment. A 12.5 degree angle of departure can be drawn on the Project Plans from the edge of traveled way through the outer most point of the fixed object to determine the additional length of railing needed.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77N4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
 - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
 - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77Q3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77U1 and RSP A77U2 and Connection Detail FF on Revised Standard Plans RSP A77V1 and RSP A77V2.
- For additional details of a typical connection to walls or abutments, see Revised Standard Plan RSP A77U3.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

NO SCALE

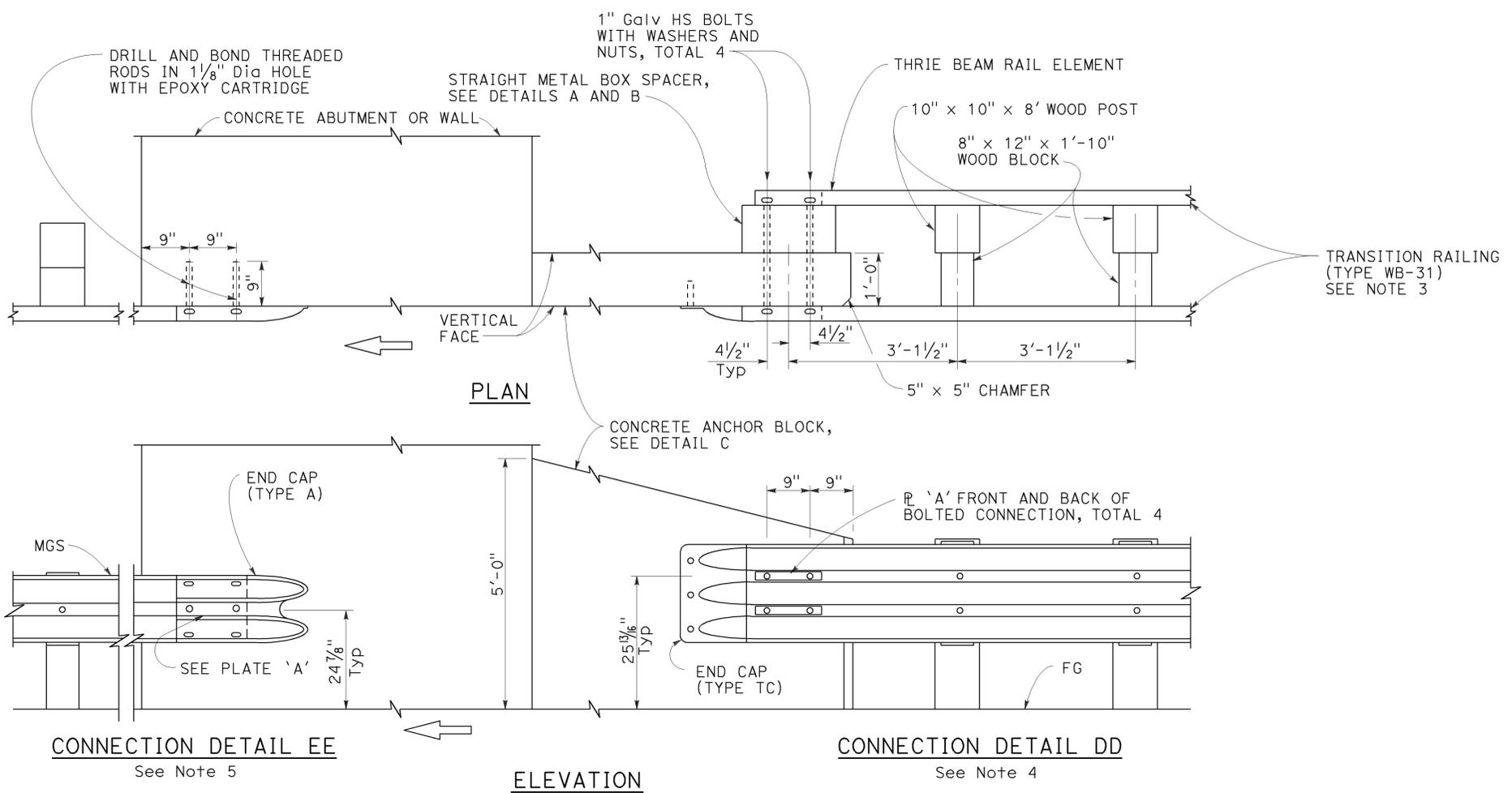
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|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 36 | 95 |

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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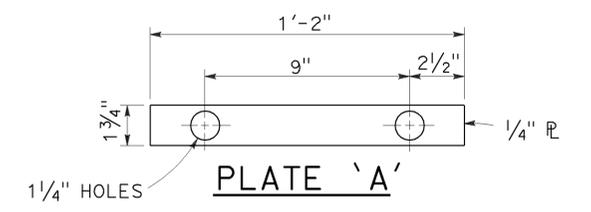
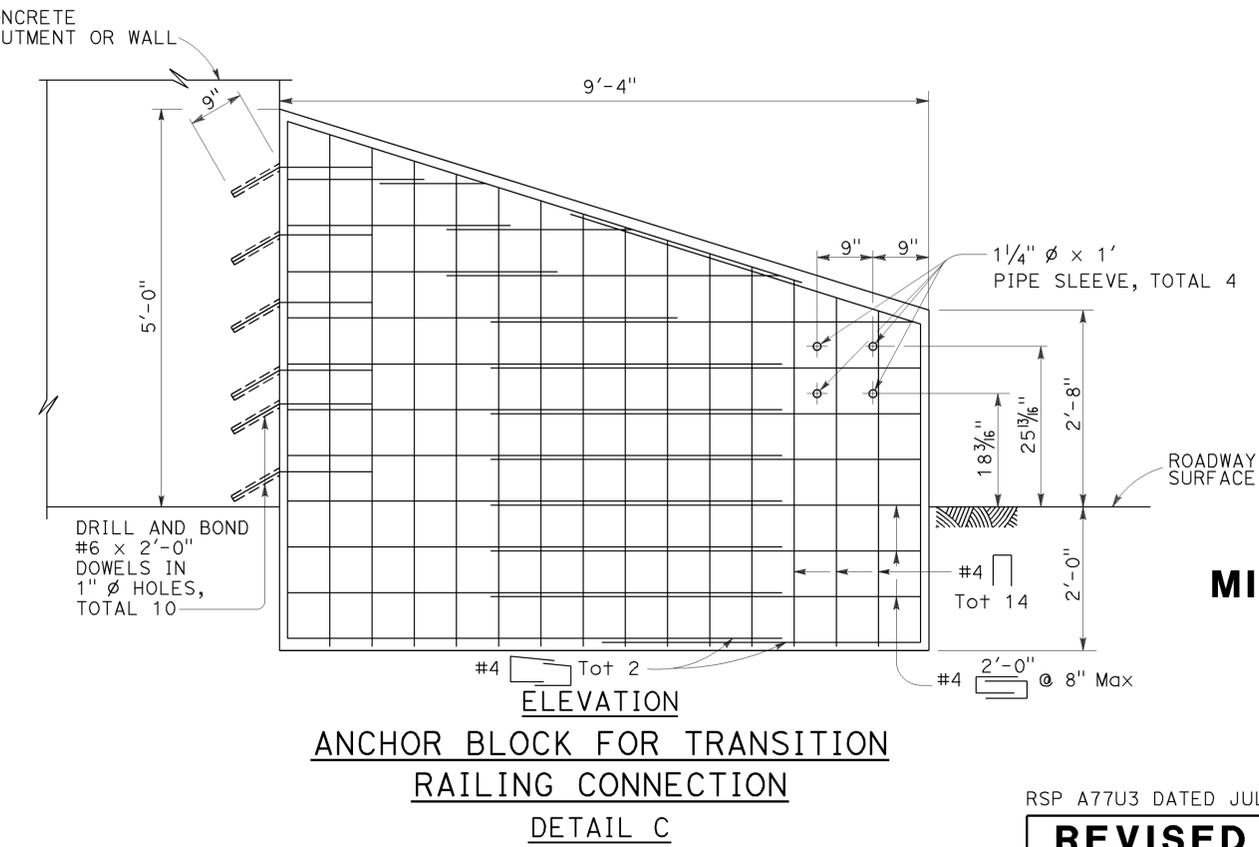
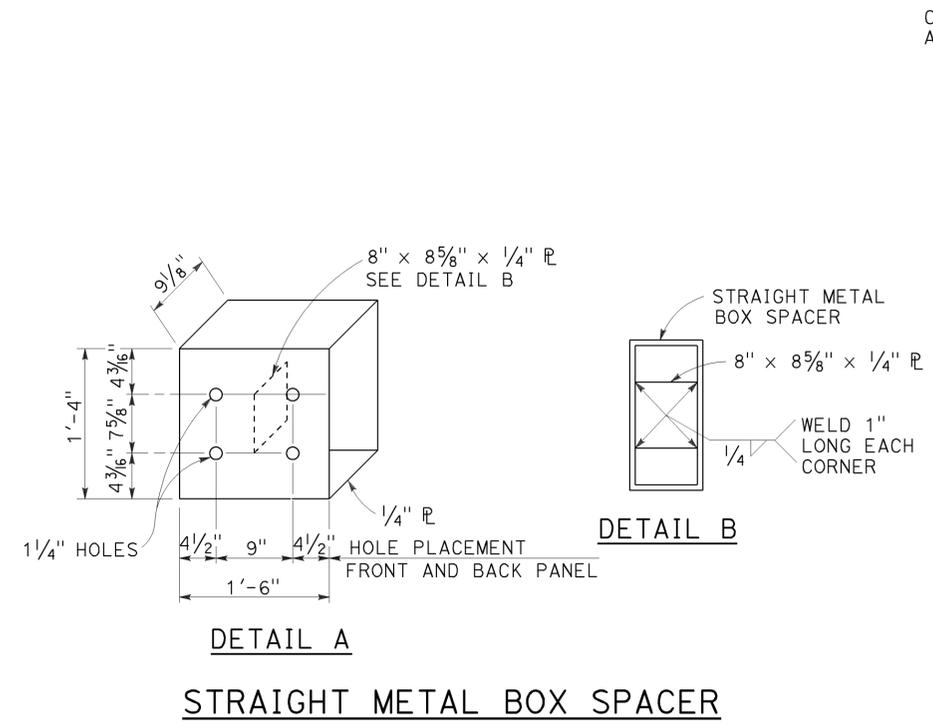
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TO ACCOMPANY PLANS DATED 5-12-14



NOTES:

1. These connection details apply to abutments and walls.
2. Additional details of posts, blocks and hardware are shown on Revised Standard Plans RSP A77M1, RSP A77N1 and RSP A77N2.
3. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested thrie beam railing section which is connected to the concrete anchor block.
4. For typical use of Connection Details DD, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1 and Layout Types 12C and 12D on Revised Standard Plan RSP A77Q2.
5. For typical use of Connection Detail EE, see Layout Type 12D on Revised Standard Plan RSP A77Q2 and Layout Type 12DD on Revised Standard Plan RSP A77Q5.



STATE OF CALIFORNIA
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**MIDWEST GUARDRAIL SYSTEM
CONNECTIONS TO
ABUTMENTS AND WALLS**

NO SCALE

RSP A77U3 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U3

2010 REVISED STANDARD PLAN RSP A77U3

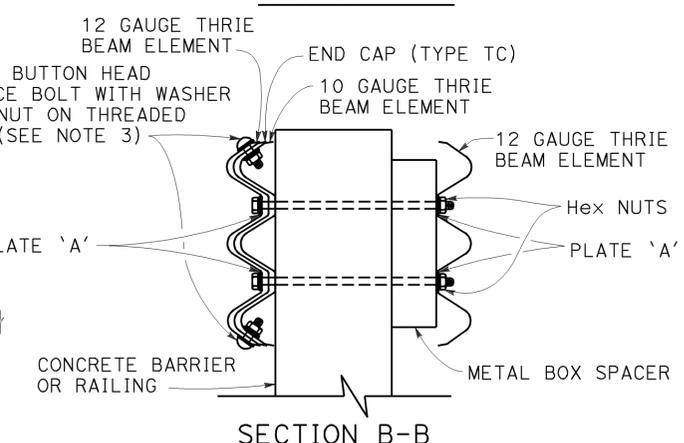
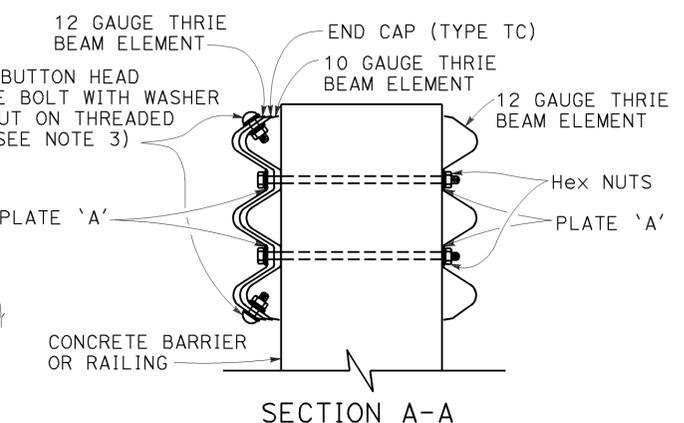
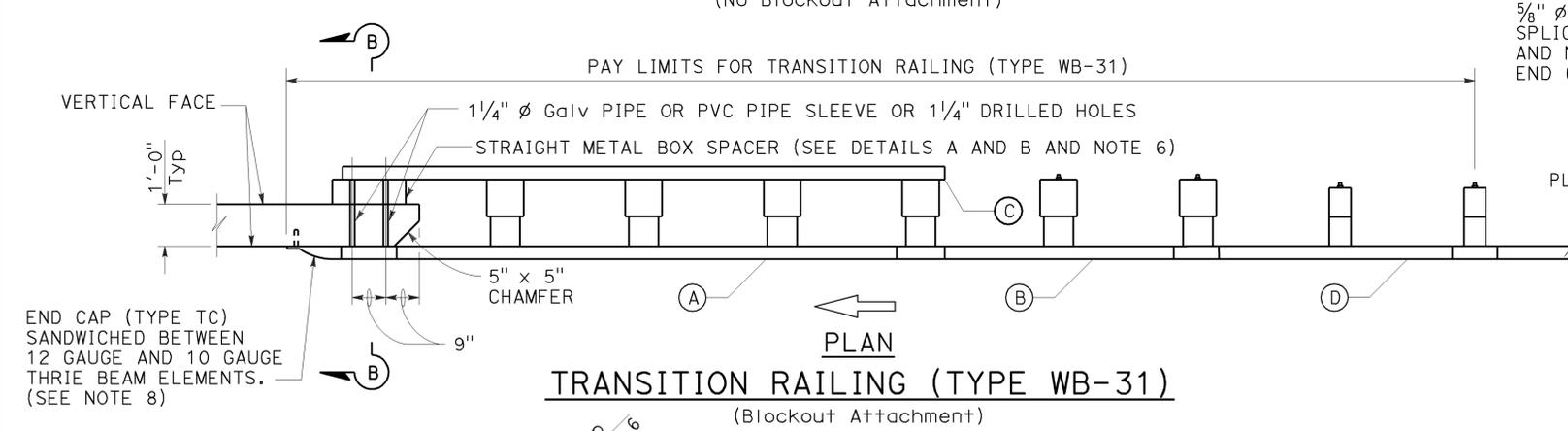
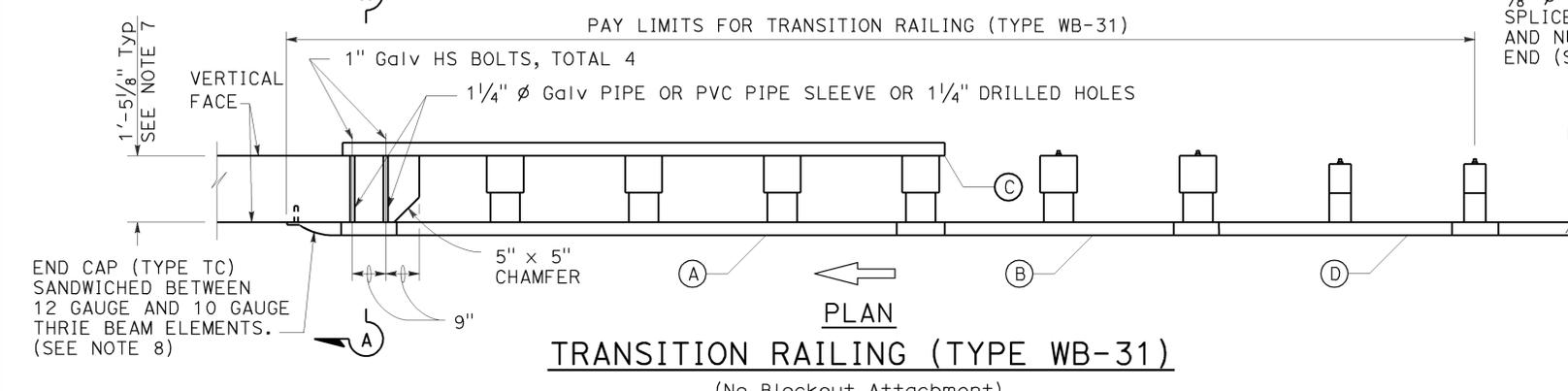
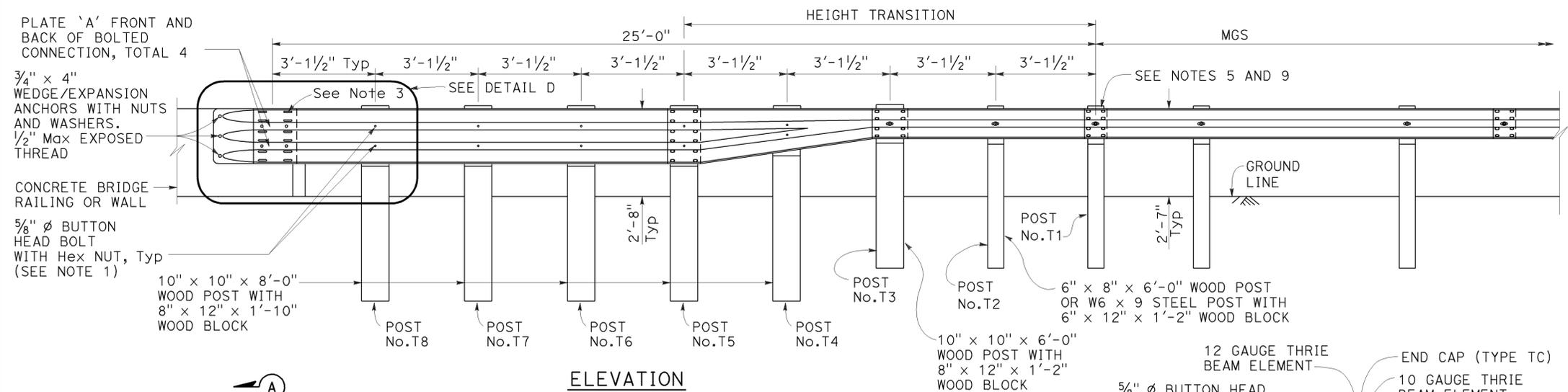
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 37 | 95 |

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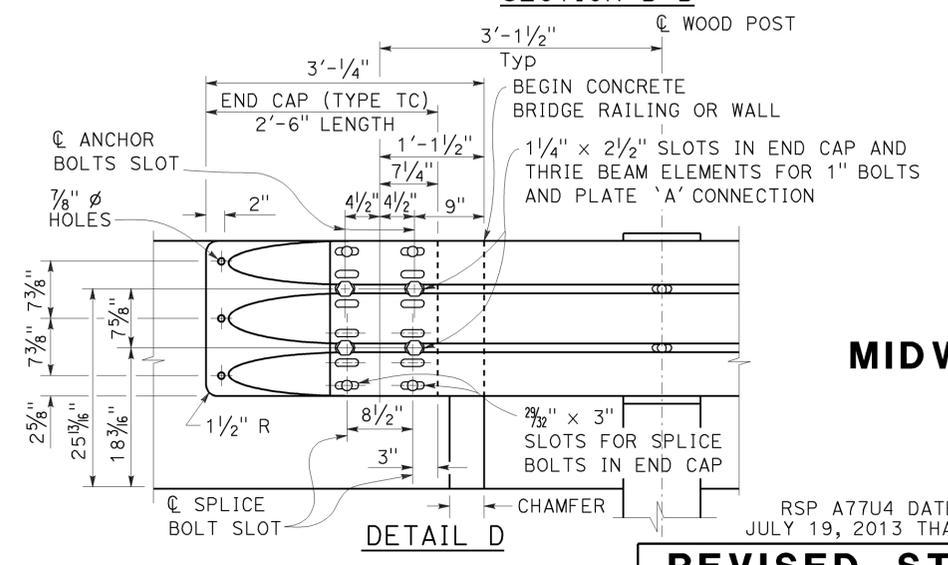
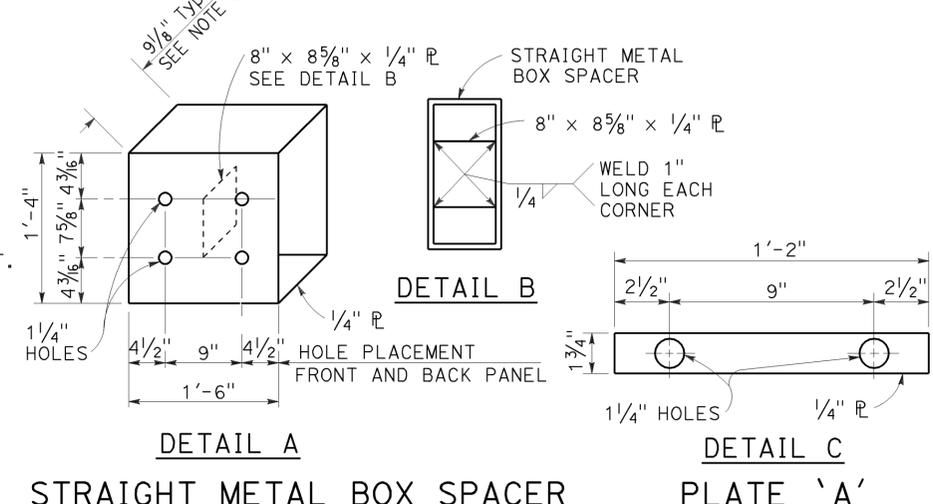
November 15, 2013
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA



- LEGEND:**
- (A) NESTED THRIE BEAM ELEMENTS (ONE 12 GAUGE ELEMENT NESTED OVER ONE 10 GAUGE ELEMENT).
 - (B) ONE ASYMMETRICAL 10 GAUGE "W" BEAM TO THRIE BEAM ELEMENT.
 - (C) ONE 12 GAUGE THRIE BEAM ELEMENT.
 - (D) ONE 10 GAUGE "W" BEAM RAIL ELEMENT (7'-3/2" LENGTH)
- 10 GAUGE = 0.138" THICK
12 GAUGE = 0.108" THICK



- NOTES:** TO ACCOMPANY PLANS DATED 5-12-14
1. Use 5/8" ϕ Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
 2. The nested rail elements, end cap, and 'W' beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
 3. Exterior splice bolt holes for rail element splices at Post No. T5 and the connection to the concrete barrier or railing shall be the standard 7/32" x 1/8" slot size. Interior splice bolt holes at these locations may be increased up to 1/4" ϕ . Only the top 4 and the bottom 4 splice bolts with washers and nuts are required for rail splices at Post No. T5 and the connection to the concrete barrier or railing.
 4. The top elevation of Posts No. T2 through No. T7 shall not project more than 1" above the top elevation of the rail element.
 5. Typically, the railing connected to Transition Railing (Type WB-31) will be either standard railing section of MGS with height transition ratio of 150:1 or a Caltrans approved 31" end treatment attached to Post No. T1.
 6. The depth of the metal box spacer varies from the 9/8" to 1 1/2" and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 21 1/8". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1 1/2", metal plates similar to Plate 'A' are to be used as spacers.
 7. Where the width of the concrete railing or wall is greater than 17 1/8", wood blocks are to be used to fill the space created between the backside of Posts No. T5 through No. T8 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
 8. End cap may be installed over 12 gauge and 10 gauge thrie beam elements where transition railing is installed on the departure end of bridge railing.
 9. Conform standard railing section height to 31" at Post No. T1 using height transition ratio of 150:1.

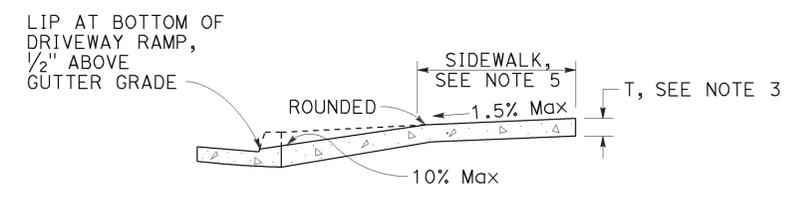
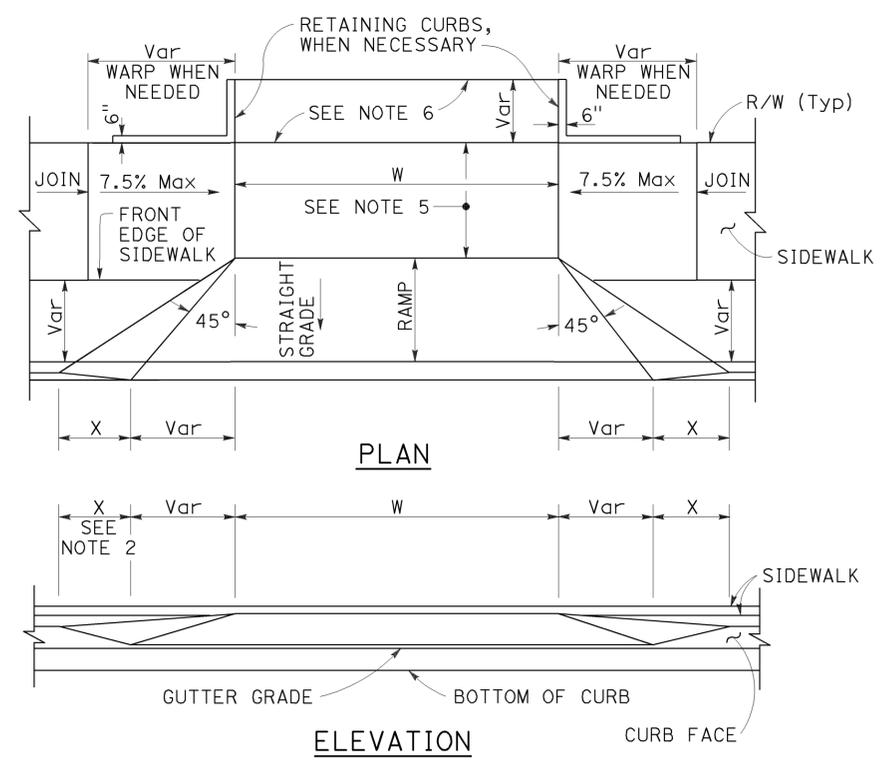
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TRANSITION RAILING
(TYPE WB-31)**
NO SCALE

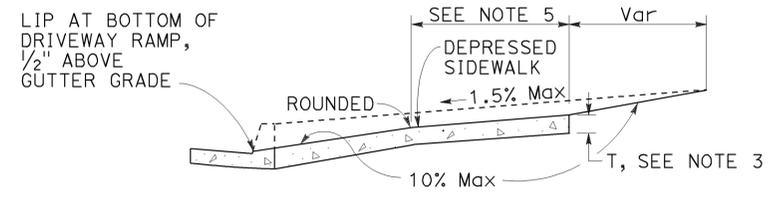
RSP A77U4 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77U4 DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A77U4

TO ACCOMPANY PLANS DATED 5-12-14



CASE A
Typical driveway, sidewalk not depressed



CASE B
Driveway with depressed sidewalk

SECTIONS

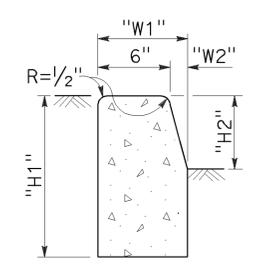
TABLE A

| CURB TYPE | DIMENSIONS | | | |
|-----------|------------|------|-----------|--------|
| | "H1" | "H2" | "W1" | "W2" |
| A1-6 | 1'-2" | 6" | 7 1/2" | 1 1/2" |
| A1-8 | 1'-4" | 8" | 8" | 2" |
| A2-6 | 1'-0" | 6" | 2'-7 1/2" | 1 1/2" |
| A2-8 | 1'-2" | 8" | 2'-8" | 2" |
| A3-6 | 6" | 5" | 7 1/4" | 1 1/4" |
| A3-8 | 8" | 7" | 7 3/4" | 1 3/4" |
| B1-4 | 1'-0" | 4" | 7 1/2" | 2 1/2" |
| B1-6 | 1'-2" | 6" | 9" | 4" |
| B2-4 | 10" | 4" | 2'-7 1/2" | 2 1/2" |
| B2-6 | 1'-0" | 6" | 2'-9" | 4" |
| B3-4 | 4" | 3" | 7" | 2" |
| B3-6 | 6" | 5" | 8 1/2" | 3 1/2" |
| D-4 | 10" | 4" | 1'-6" | 1'-1" |
| D-6 | 1'-0" | 6" | 2'-2" | 1'-9" |

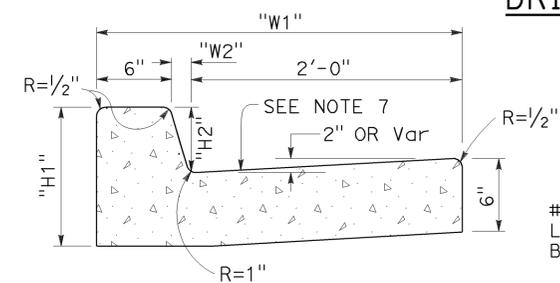
CURB QUANTITIES

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

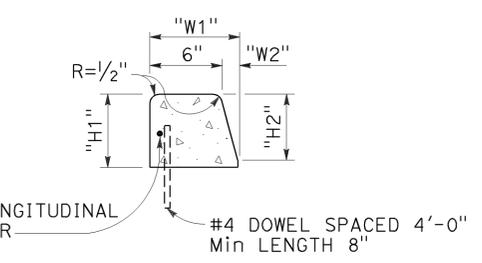
DRIVEWAYS



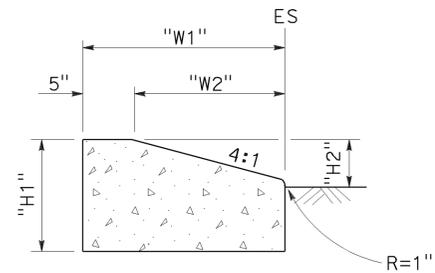
TYPE A1 CURBS
See Table A



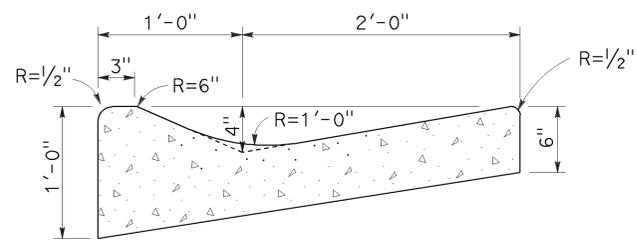
TYPE A2 CURBS
See Table A



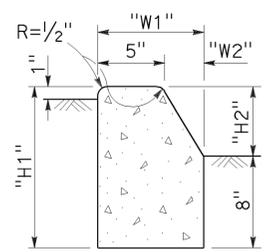
TYPE A3 CURBS
Superimposed on existing pavement
See Table A



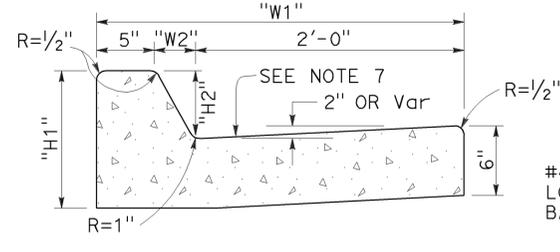
TYPE D CURBS
See Table A



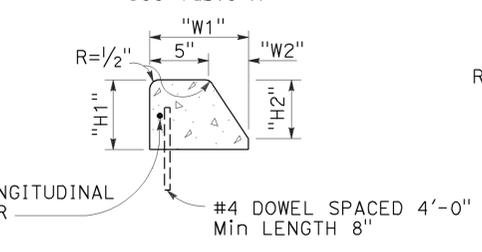
TYPE E CURB



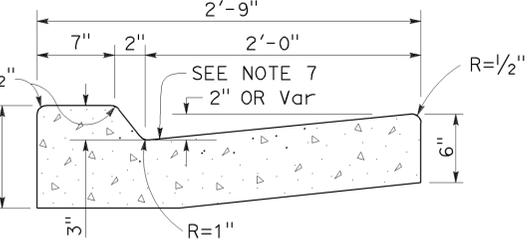
TYPE B1 CURBS
See Table A



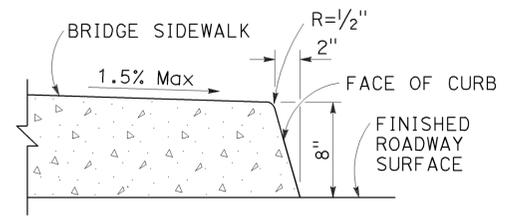
TYPE B2 CURBS
See Table A



TYPE B3 CURBS
Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB
On Bridges

CURBS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP A87A

2010 REVISED STANDARD PLAN RSP A87A

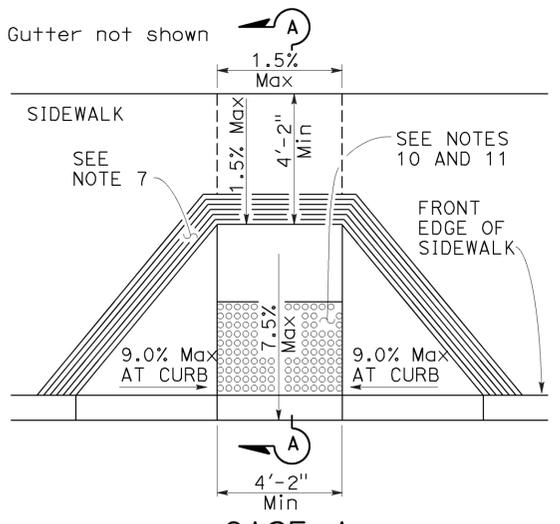
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 39 | 95 |

H. David Cordova
REGISTERED CIVIL ENGINEER

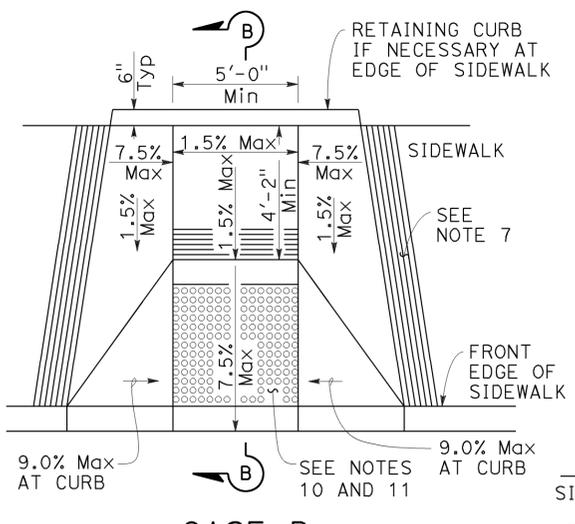
March 21, 2014
PLANS APPROVAL DATE

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.

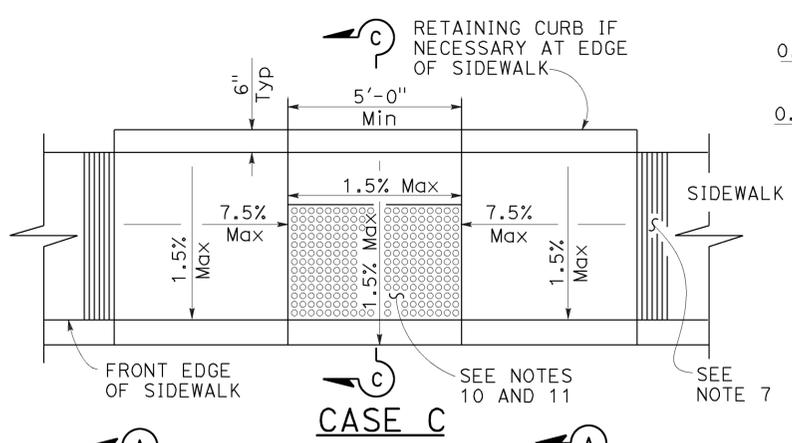
Hector David Cordova
REGISTERED PROFESSIONAL ENGINEER
No. C41957
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA



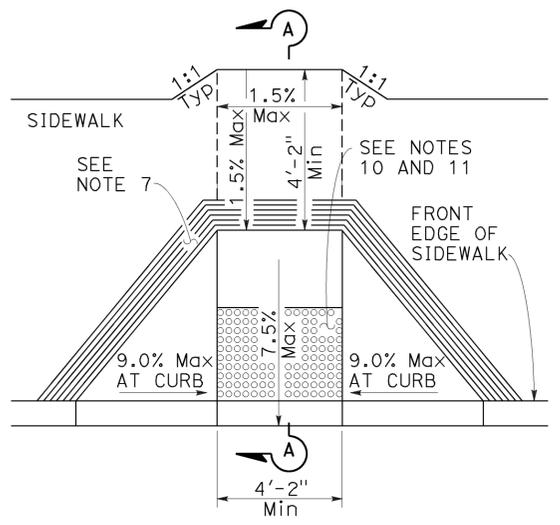
CASE A



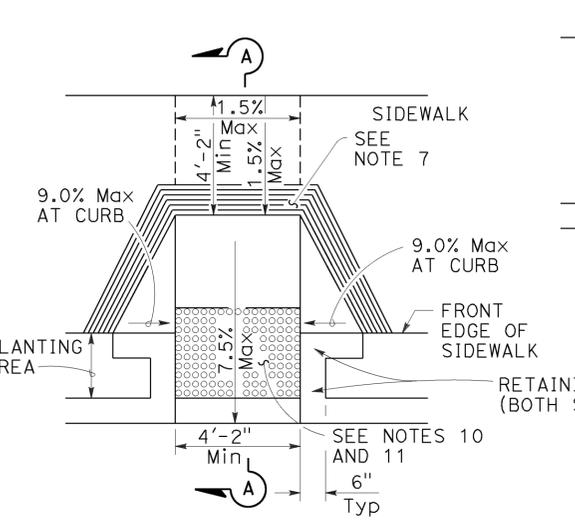
CASE B



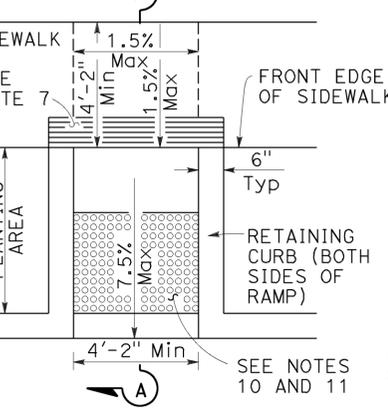
CASE C



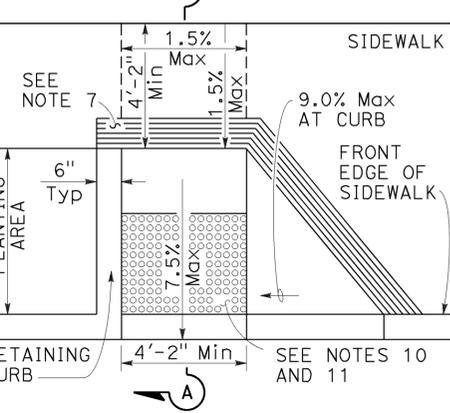
CASE D



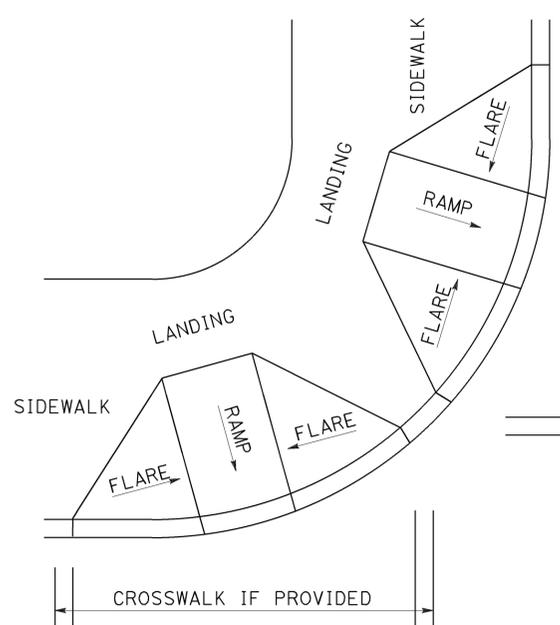
CASE E



CASE F



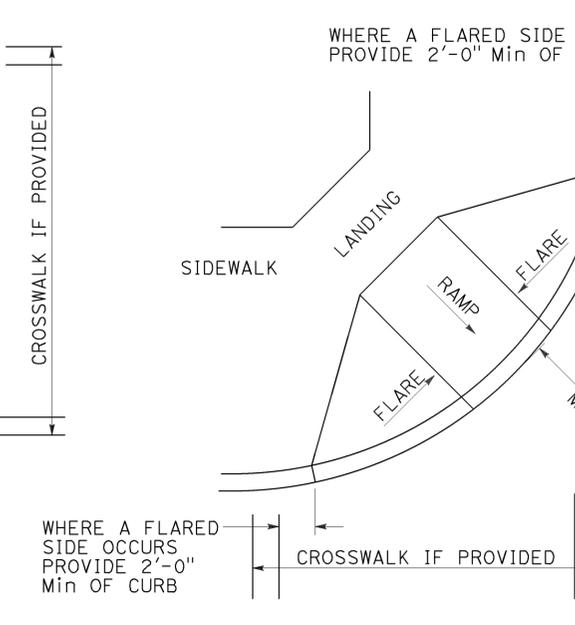
CASE G



DETAIL A

TYPICAL TWO-RAMP CORNER INSTALLATION

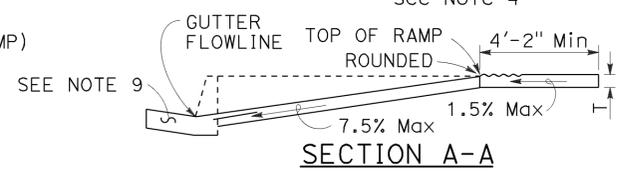
See Note 1



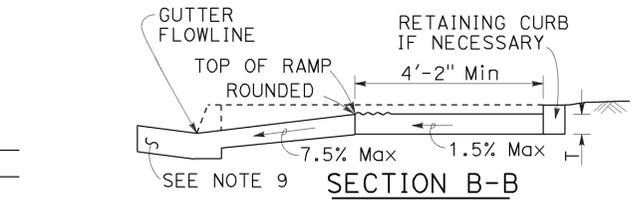
DETAIL B

TYPICAL ONE-RAMP CORNER INSTALLATION

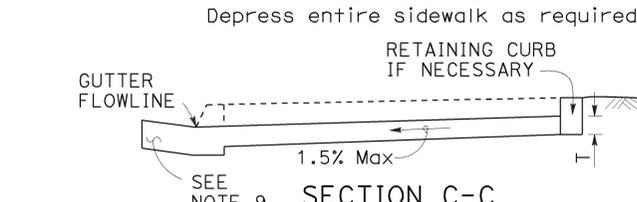
See Notes 1 and 3



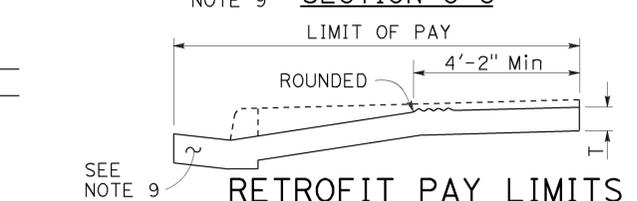
SECTION A-A



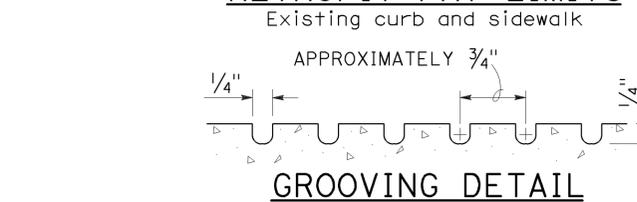
SECTION B-B



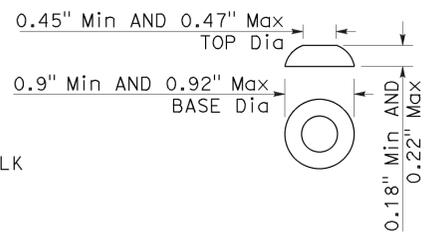
SECTION C-C



RETROFIT PAY LIMITS



GROOVING DETAIL



RAISED TRUNCATED DOME



RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE

See Note 10

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS
NO SCALE

RSP A88A DATED MARCH 21, 2014 SUPERSEDES RSP A88A DATED JULY 19, 2013 AND STANDARD PLAN A88A DATED MAY 20, 2011 - PAGE 121 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A88A

NOTES:

- As site conditions dictate, Case A through Case G curb ramps may be used for corner installations similar to those shown in Detail A and Detail B. The case of curb ramps used in Detail A do not have to be the same. Case A through Case G curb ramps also may be used at mid block locations, as site conditions dictate.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B, or C or may be widened as in Case D.
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
- As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
- If located on a curve, the sides of the ramp need not be parallel, but the minimum width of the ramp shall be 4'-2".
- Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
- The curb ramp shall be outlined, as shown, with a 1'-0" wide border with 1/4" grooves approximately 3/4" on center. See grooving detail.
- Transitions from ramps and landing to walks, gutters or streets shall be flush (no lip) and free of abrupt changes.
- Counter slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
- Curb ramps shall have a detectable warning surface that extends the full width and 3'-0" depth of the ramp. A 4'-0" wide detectable warning surface may be used on a 4'-2" wide curb ramp. Detectable Warning Surfaces shall conform to the requirements in the Standard Specifications.
- The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
- Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
- Detectable warning surface may have to be cut to allow removal of utility covers while maintaining full detectable warning width and depth.

2010 REVISED STANDARD PLAN RSP A88A

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 40 | 95 |

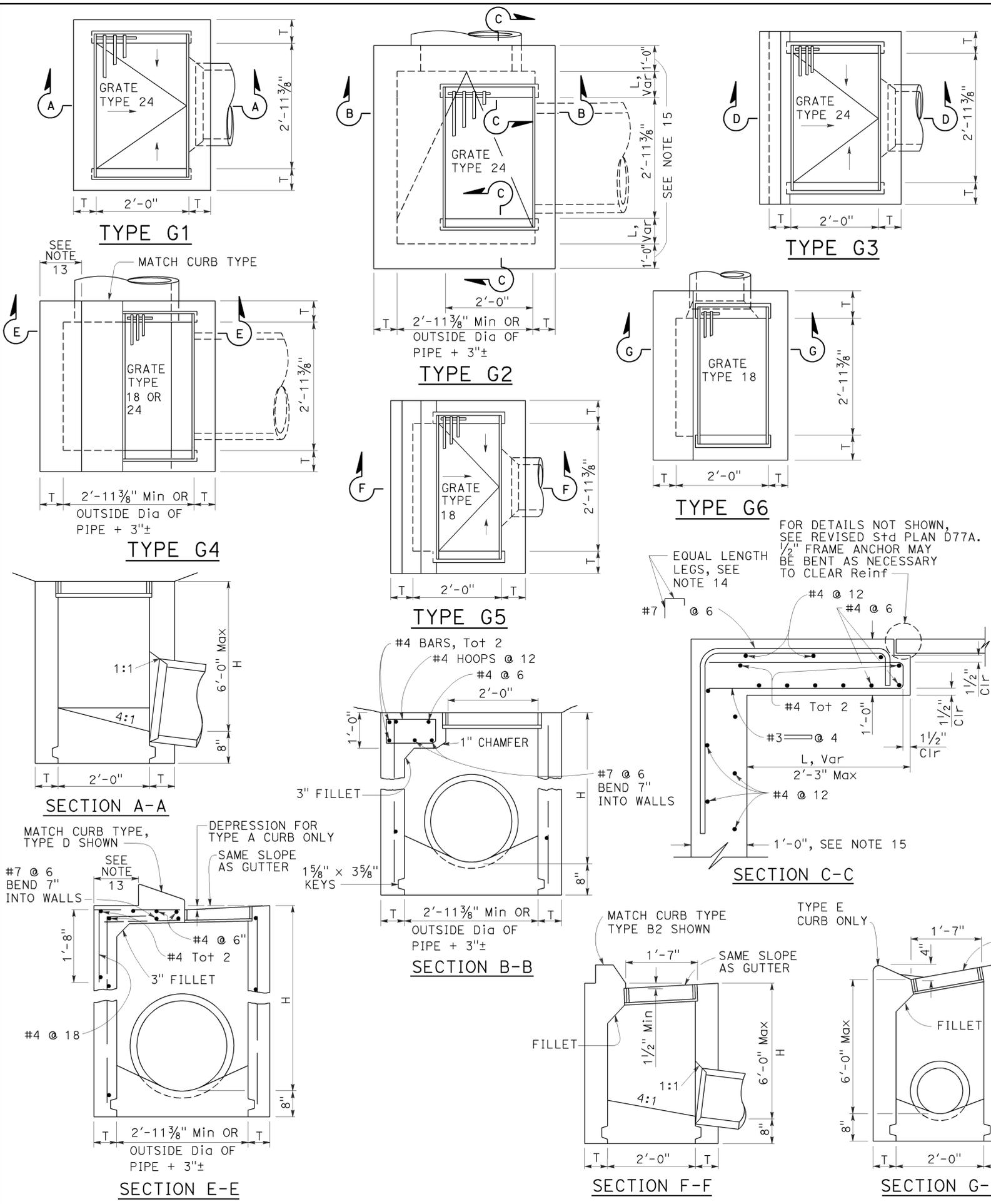
Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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

2010 REVISED STANDARD PLAN RSP D73



NOTES:

- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
- For "T" wall thickness, see Table A below.
- Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 bars @ 1'-6" ± centers placed 1 1/2" clear to inside of box unless otherwise shown.
- Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom and alternative half round bottom.
- Steps-None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
- Details shown apply to both metal and concrete pipe.
- Pipe(s) can be placed in any wall.
- Curb section shall match adjacent curb.
- Basin floors shall have wood trowel finish and a minimum slope of 12:3 from all directions toward outlet pipe.
- Set inlet so that grate bars are parallel to direction of principal surface flow.
- See Revised Standard Plans D77A and D77B for grate and frame details and weights of miscellaneous iron and steel.
- See Standard Plan D78A for gutter depression details.
- This dimension will vary with different grates, curbs types, box width and wall thickness.
- Bar may be rotated as necessary to clear opening. Where "L" is 6" or less, bar may be omitted.
- Where "L" is 6" or less, wall thickness shall be as shown in Table A.
- Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet, and concrete poured in one continuous operation. Precast inlets shall have mortared connections conforming to details for Type GCP Inlet shown on Standard Plan D75B. See Standard Specifications for mortar composition.

TABLE A

| TYPE | CONCRETE QUANTITIES | | | |
|----------------|-------------------------|--------------------------|--------------|------------------------------|
| | H=3'-0" TO 8'-0" (T=6") | H=8'-1" TO 20'-0" (T=8") | H=8'-1" (CY) | ADDITIONAL PCC PER FOOT (CY) |
| G-1 | 0.95 | 0.220 | See Note A | SEE NOTE A |
| G-2* | 1.31 | 0.255 | 3.50 | 0.357 |
| G-3 | 1.03 | 0.220 | See Note A | SEE NOTE A |
| G-4* (TYPE 24) | 1.27 | 0.255 | 3.48 | 0.357 |
| G-4* (TYPE 18) | 1.30 | 0.255 | 3.50 | 0.357 |
| G-5 | 1.02 | 0.220 | SEE NOTE A | SEE NOTE A |
| G-6 | 1.04 | 0.220 | SEE NOTE A | SEE NOTE A |

TABLE BASED ON 8" FLOOR SLAB. NO DEDUCTIONS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES OR DIFFERENT CURB TYPES. * QUANTITIES FOR TYPE G-2 AND G-4 INLETS BASED ON THE MINIMUM INTERIOR DIMENSIONS.

NOTE A:

Maximum allowable height 6'-0".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DRAINAGE INLETS
NO SCALE

RSP D73 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN D73 DATED MAY 20, 2011 - PAGE 156 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D73

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 41 | 95 |

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
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.

TO ACCOMPANY PLANS DATED 5-12-14

A

AB AGGREGATE BASE
 ABS ACRYLONITRILE-BUTADIENE-STYRENE
 AC ASPHALT CONCRETE
 ACC ARMOR-CLAD CONDUCTORS
 Adj ADJACENT/ADJUSTABLE
 AIC AUXILIARY IRRIGATION CONTROLLER
 Alt ALTERNATIVE
 AMEND AMENDMENT
 ARV AIR RELEASE VALVE
 AUTO AUTOMATIC
 AUX AUXILIARY
 AVB ATMOSPHERIC VACUUM BREAKER

B

B&B BALLED AND BURLAPPED
 B/B BRASS/BRONZE
 B/B/PL BRASS/BRONZE/PLASTIC
 B/PL BRASS/PLASTIC
 BFM BONDED FIBER MATRIX
 Bit Ctd BITUMINOUS COATED
 BP BOOSTER PUMP
 BPA BACKFLOW PREVENTER ASSEMBLY
 BPE BACKFLOW PREVENTER ENCLOSURE
 BV BALL VALVE

C

C CONDUIT
 CAP CORRUGATED ALUMINUM PIPE
 CARV COMBINATION AIR RELEASE VALVE
 CB COUPLING BAND
 CCA CAM COUPLER ASSEMBLY
 CEC CONTROLLER ENCLOSURE CABINET
 CHDPE CORRUGATED HIGH DENSITY POLYETHYLENE
 CL CHAIN LINK
 CNC CONTROL AND NEUTRAL CONDUCTORS
 Conc CONCRETE
 CP COPPER PIPE
 CS COMPOST SOCK
 CSP CORRUGATED STEEL PIPE
 CST CENTER STRIP
 CV CHECK VALVE

D

Dia DIAMETER
 DIP DUCTILE IRON PIPE
 DIT DRIP IRRIGATION TUBING
 DG DECOMPOSED GRANITE
 DN DIAMETER NOMINAL
 DVA DRIP VALVE ASSEMBLY

E

EC EROSION CONTROL
 ECTC EROSION CONTROL TECHNOLOGY COUNCIL
 Elect ELECTRIC/ELECTRICAL
 Elev ELEVATION
 ELL ELBOW
 ENCL ENCLOSURE
 EP EDGE OF PAVEMENT
 ES EDGE OF SHOULDER
 EST END STRIP
 ESTB ESTABLISHMENT
 ETW EDGE OF TRAVELED WAY

F

F FULL CIRCLE
 F/P FULL/PART CIRCLE
 FCV FLOW CONTROL VALVE
 FERT FERTILIZER
 FG FINISHED GRADE
 FH FLEXIBLE HOSE
 FIPT FEMALE IRON PIPE THREAD
 FIS FERTILIZER INJECTOR SYSTEM
 FL FLOW LINE
 FR FIBER ROLL
 FS FLOW SENSOR
 FSC FLOW SENSOR CABLE
 FV FLUSH VALVE

G

Galv GALVANIZED
 GARV GARDEN VALVE
 GARVA GARDEN VALVE ASSEMBLY
 GM GRAVEL MULCH
 GPH GALLONS PER HOUR
 GPM GALLONS PER MINUTE
 GSP GALVANIZED STEEL PIPE
 GV GATE VALVE

H

H HALF CIRCLE
 HDPE HIGH DENSITY POLYETHYLENE
 HP HORSEPOWER/HINGE POINT
 HPL HIGH PRESSURE LINE
 Hwy HIGHWAY

I

IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET
 ID INSIDE DIAMETER
 IFS IRRIGATION FILTRATION SYSTEM
 IPS IRON PIPE SIZE
 IPT IRON PIPE THREAD
 Irr IRRIGATION

L

L LENGTH

M

Max MAXIMUM
 MBGR METAL BEAM GUARD RAILING
 MCV MANUAL CONTROL VALVE
 MIC MASTER IRRIGATION CONTROLLER
 Min MINIMUM
 MIPT MALE IRON PIPE THREAD
 Misc MISCELLANEOUS
 MtI MATERIAL
 MVP MAINTENANCE VEHICLE PULLOUT

N

NCN NO COMMON NAME
 NL NOZZLE LINE
 No. NUMBER
 NPT NATIONAL PIPE THREAD

O

O/C ON CENTER
 OD OUTSIDE DIAMETER
 OL OVERLAP

P

P PART CIRCLE
 PB PULL BOX
 PCC PORTLAND CEMENT CONCRETE
 PE POLYETHYLENE
 Pkt+ PACKET
 PL PLASTIC
 PLS PURE LIVE SEED
 PLT PLANT/PLANTING
 PLT ESTB PLANT ESTABLISHMENT
 PM POST MILE
 PR PRESSURE RATED
 PRLV PRESSURE RELIEF VALVE
 PRV PRESSURE REGULATING VALVE
 PVC POLYVINYL CHLORIDE
 Pvm+ PAVEMENT

Q

Q QUARTER CIRCLE
 QCV QUICK COUPLING VALVE

NOTE:
 For additional abbreviations, see Standard Plans A10A and A10B.

R

R RADIUS
 RCP REINFORCED CONCRETE PIPE
 RCV REMOTE CONTROL VALVE
 RCVM REMOTE CONTROL VALVE (MASTER)
 RCVMF REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
 RCVP REMOTE CONTROL VALVE W/PRESSURE REGULATOR
 RCW RECYCLED WATER
 RECP ROLLED EROSION CONTROL PRODUCT
 REQ REQUIRED
 RICS REMOTE IRRIGATION CONTROL SYSTEM
 R/W RIGHT OF WAY

S

S SLIP
 SCH SCHEDULE
 SF STATE-FURNISHED
 Shld SHOULDER
 Sq SQUARE
 SST SIDE STRIP
 Sta STATION
 Std STANDARD
 SW SIDEWALK/SOUND WALL

T

T THIRD CIRCLE/THREAD
 TLS TRUCK LOADING STANDPIPE
 TQ THREE QUARTER CIRCLE
 TRM TURF REINFORCEMENT MAT
 TT TWO-THIRDS CIRCLE
 TWSA TREE WELL SPRINKLER ASSEMBLY
 Typ TYPICAL

U

UG UNDERGROUND

W

W WIDTH
 W/ WITH
 WM WATER METER
 WS WYE STRAINER
 WSA WYE STRAINER ASSEMBLY
 WSP WELDED STEEL PIPE
 WWM WELDED WIRE MESH

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE AND EROSION CONTROL ABBREVIATIONS
 NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 42 | 95 |

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

November 15, 2013
PLANS APPROVAL DATE

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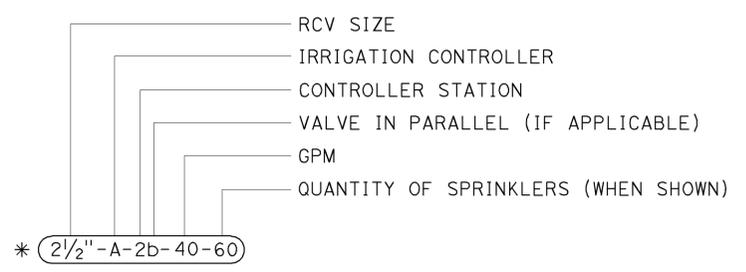
LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer
2-28-15
11-15-13
date

TO ACCOMPANY PLANS DATED 5-12-14

2010 REVISED STANDARD PLAN RSP H2

| EXISTING | NEW | ITEM DESCRIPTION |
|----------|-----|---|
| | | WATER METER (WM) |
| | | BACKFLOW PREVENTER ASSEMBLY (BPA) |
| | | BACKFLOW PREVENTER ENCLOSURE (BPE) |
| | | BOOSTER PUMP (BP) |
| | | TRUCK LOADING STANDPIPE (TLS) |
| | | FLOW SENSOR (FS) |
| | | MASTER IRRIGATION CONTROLLER (MIC) |
| | | AUXILIARY IRRIGATION CONTROLLER (AIC) |
| | | IRRIGATION CONTROLLER (IC) IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR) IRRIGATION CONTROLLER (IC) (TWO WIRE) IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC) |
| | | ARMOR-CLAD CONDUCTORS (ACC) |
| | | CONTROL AND NEUTRAL CONDUCTORS (CNC) |
| | | IRRIGATION CONDUIT |
| | | EXTEND IRRIGATION CONDUIT |
| | | DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP) |
| | | GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP) |
| | | GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP) |
| | | PLASTIC PIPE (SUPPLY LINE) (MAIN) |
| | | PLASTIC PIPE (SUPPLY LINE) (LATERAL) |
| | | COPPER PIPE (SUPPLY LINE) |
| | | DRIP IRRIGATION TUBING |
| | | REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF) |
| | | REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP) |
| | | EXISTING MANUAL CONTROL VALVE (MCV) |
| | | DRIP VALVE ASSEMBLY (DVA) |
| | | WYE STRAINER ASSEMBLY (WSA) |

| EXISTING | NEW | ITEM DESCRIPTION |
|----------|-----|--|
| | | GATE VALVE (GV) |
| | | BALL VALVE (BV) |
| | | QUICK COUPLING VALVE (QCV) |
| | | CAM COUPLER ASSEMBLY (CCA) |
| | | GARDEN VALVE ASSEMBLY (GARVA) |
| | | PRESSURE REGULATING VALVE (PRV) |
| | | PRESSURE RELIEF VALVE (PRLV) |
| | | FLOW CONTROL VALVE (FCV) |
| | | COMBINATION AIR RELEASE VALVE (CARV) |
| | | CHECK VALVE (CV) |
| | | FLUSH VALVE (FV) |
| | | EXISTING NOZZLE LINE W/TURNING UNION |
| | | EXISTING IRRIGATION SYSTEM |
| | | EXISTING IRRIGATION SYSTEM TO BE REMOVED |
| | | CHAIN LINK GATE |
| | | QUICK COUPLING VALVE W/SPRINKLER PROTECTOR |
| | | SPRINKLER W/SPRINKLER PROTECTOR |
| | | CONNECT TO EXISTING SYSTEM |
| | | CAP |
| | | CAP EXISTING |
| | | FIBER ROLL |
| | | COMPOST SOCK |



* 2 1/2" - A - 2b - 40 - 60

VALVE CODE

* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

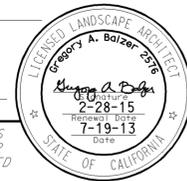
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**LANDSCAPE AND EROSION
CONTROL SYMBOLS**
NO SCALE

RSP H2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

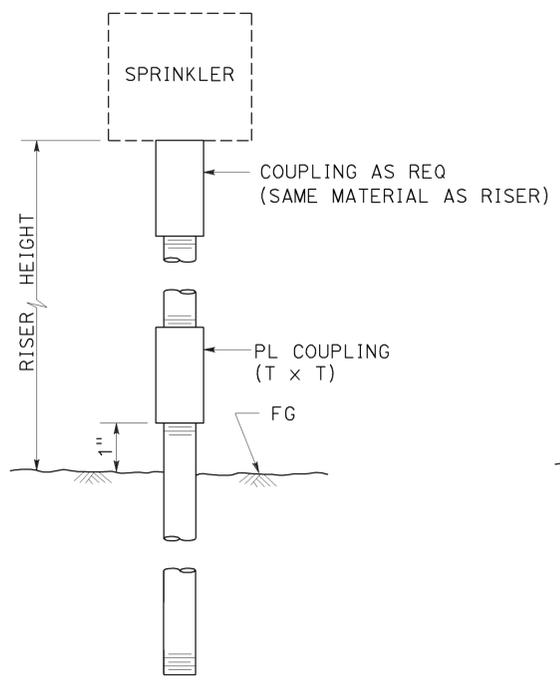
REVISED STANDARD PLAN RSP H2

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 43 | 95 |

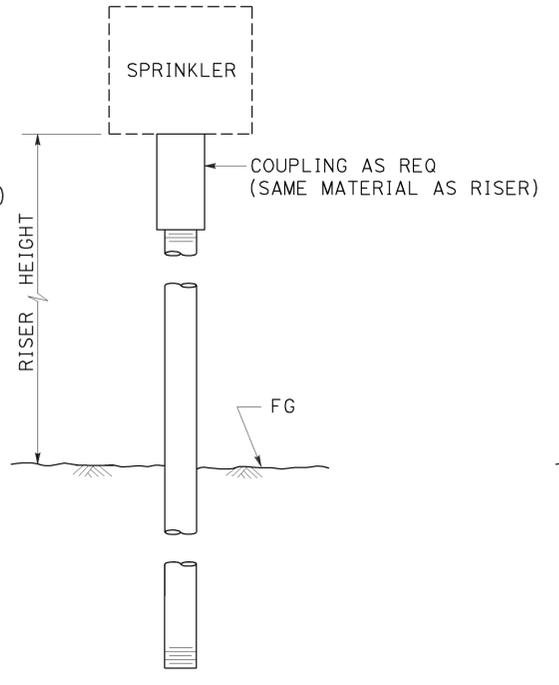
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



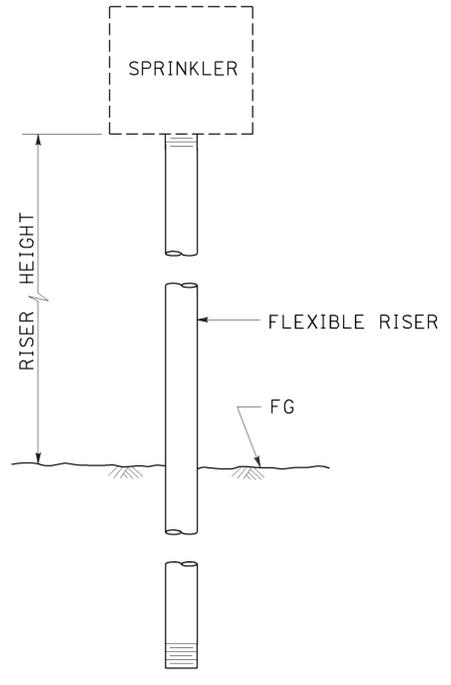
TO ACCOMPANY PLANS DATED 5-12-14



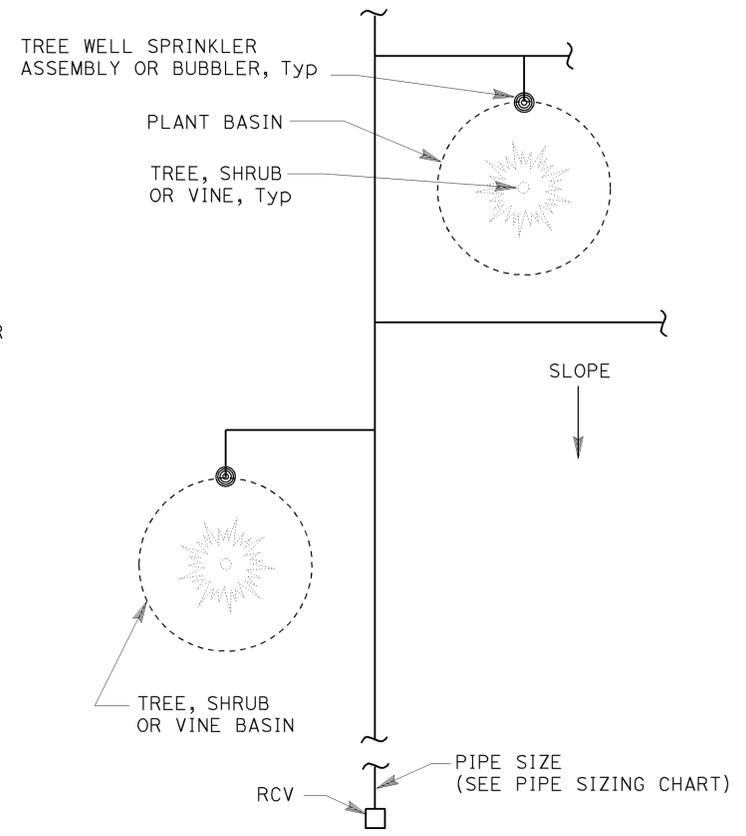
ELEVATION
RISER SPRINKLER
ASSEMBLY TYPE I



ELEVATION
RISER SPRINKLER
ASSEMBLY TYPE II



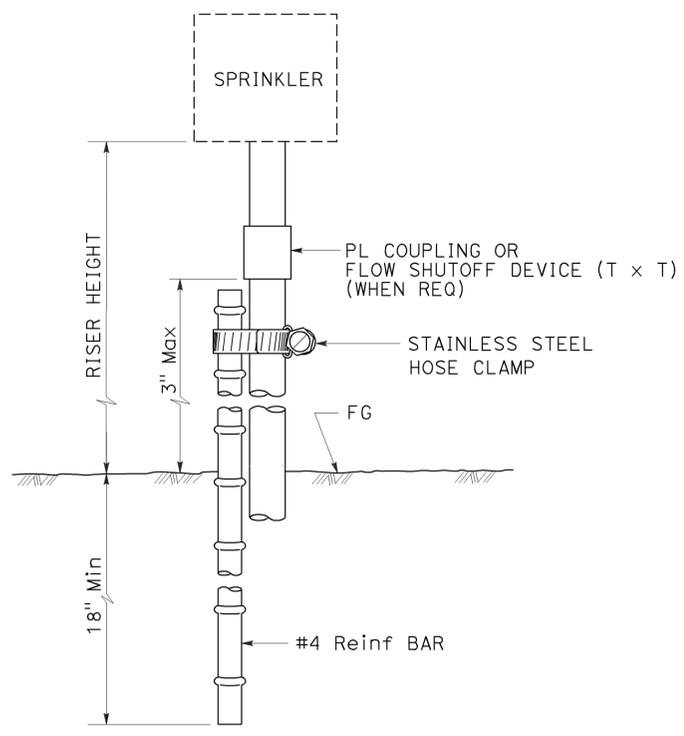
ELEVATION
RISER SPRINKLER
ASSEMBLY TYPE III



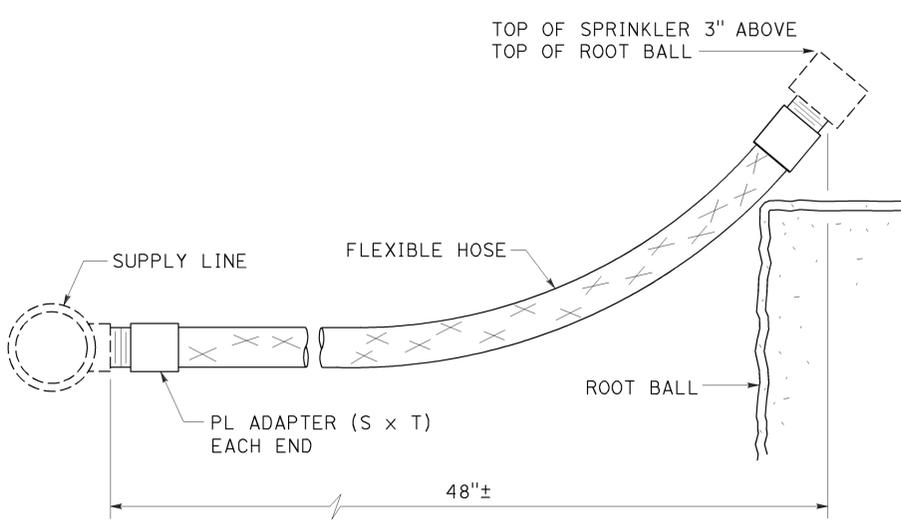
PLAN

NOTES:

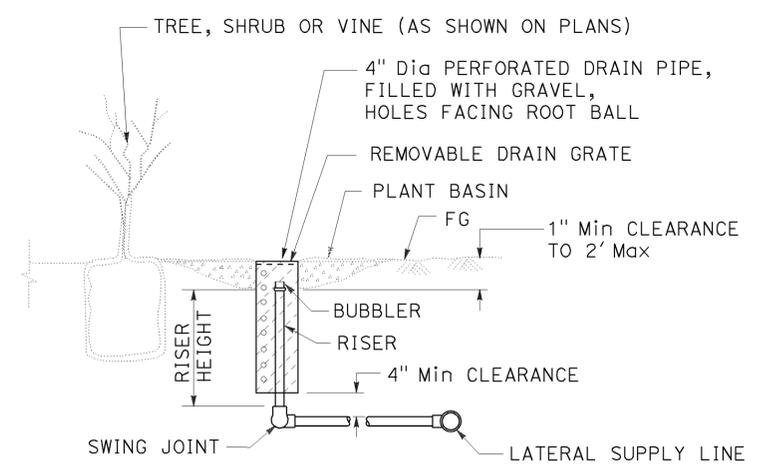
1. Install tree well sprinkler assembly on up-hill side of plant when on slope.
2. Install bubbler within basin.



ELEVATION
RISER SPRINKLER
ASSEMBLY TYPE IV



ELEVATION
RISER SPRINKLER
ASSEMBLY TYPE V



SECTION
TREE WELL SPRINKLER ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
NO SCALE

RSP H5 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H5 DATED MAY 20, 2011 - PAGE 222 OF THE STANDARD PLANS BOOK DATED 2010.

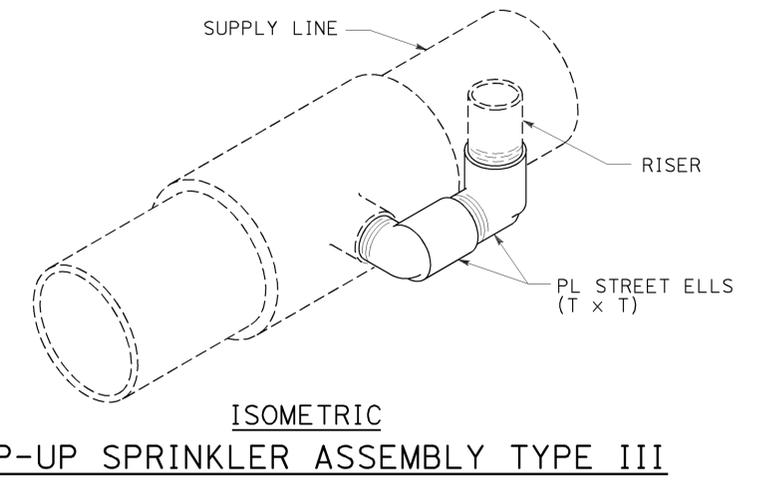
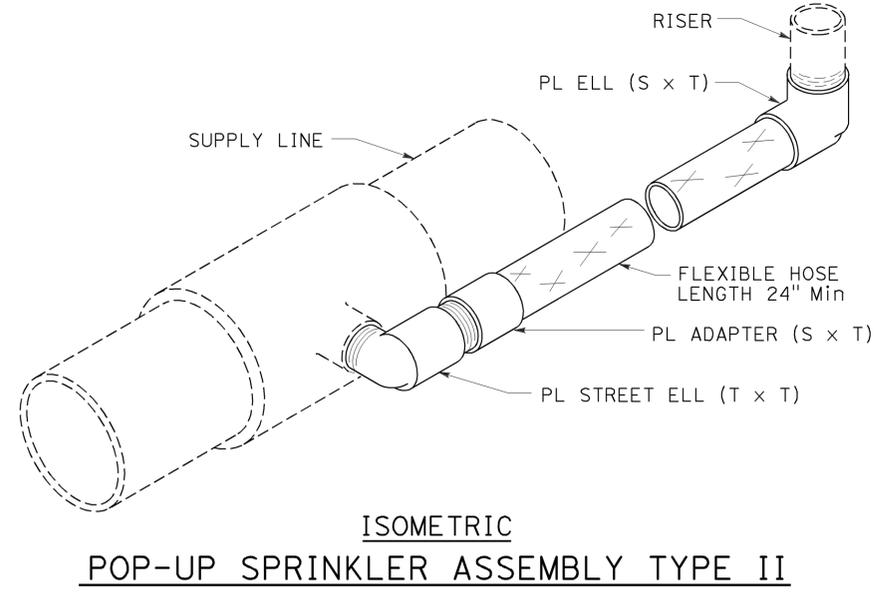
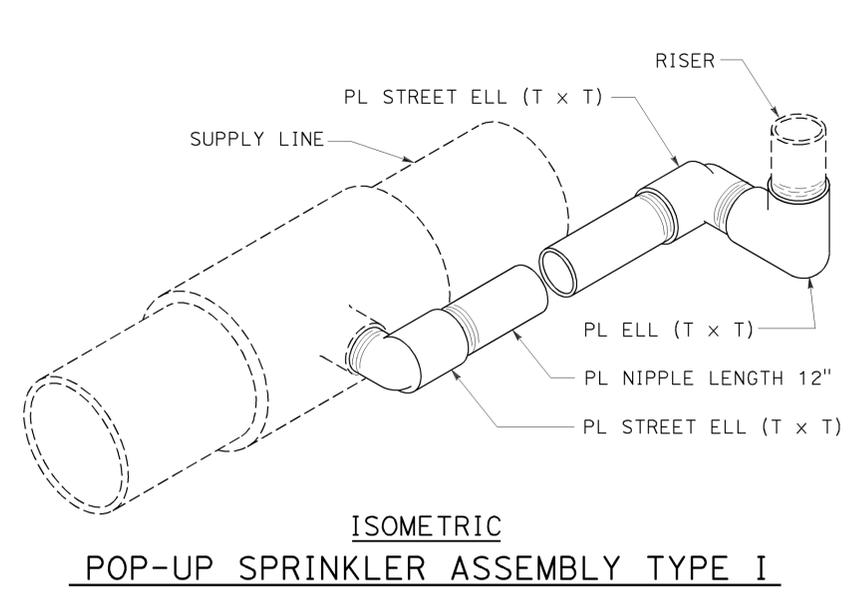
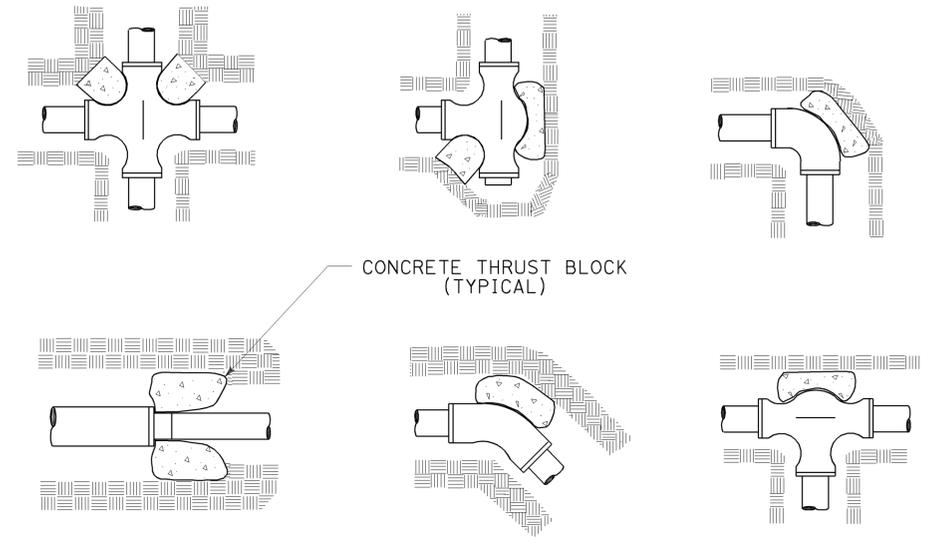
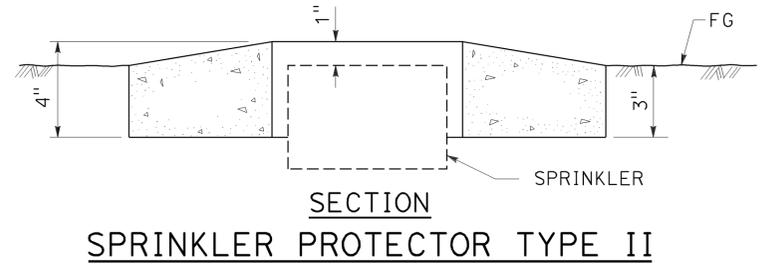
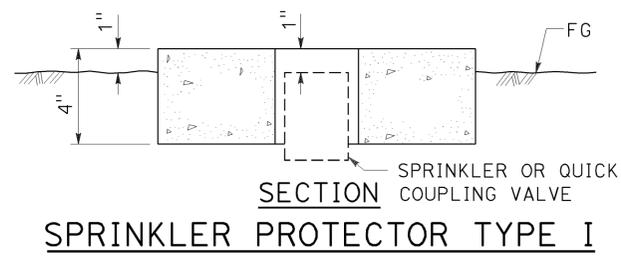
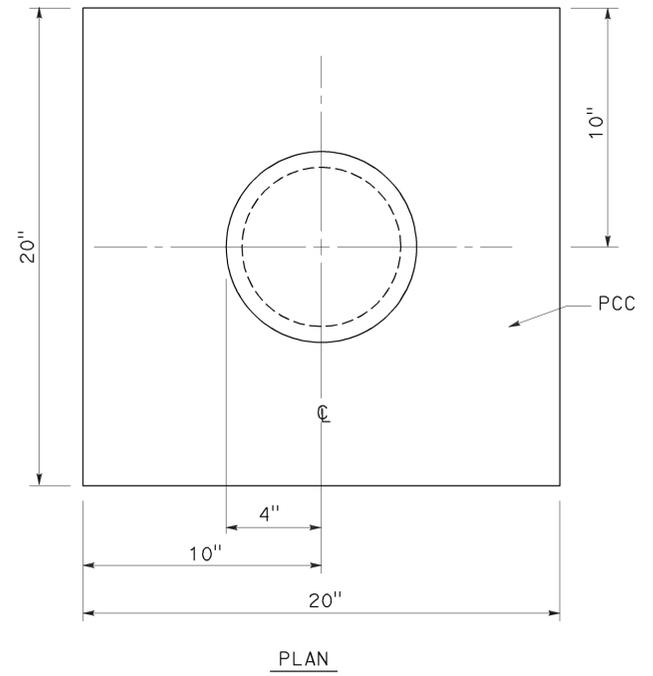
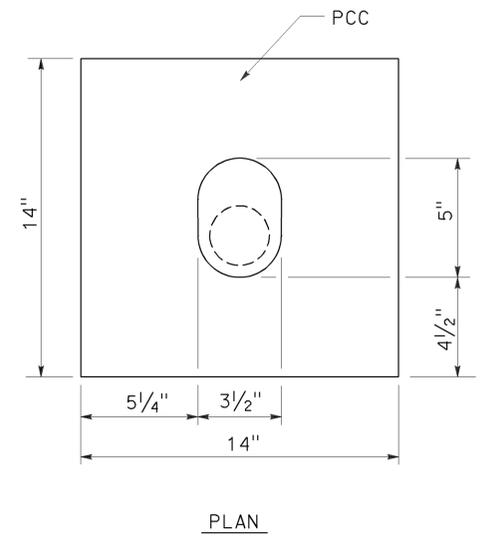
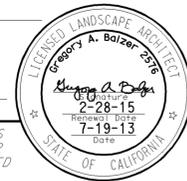
REVISED STANDARD PLAN RSP H5

2010 REVISED STANDARD PLAN RSP H5

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 44 | 95 |

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 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.

TO ACCOMPANY PLANS DATED 5-12-14



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
 NO SCALE

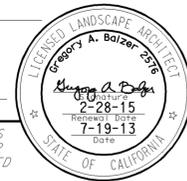
RSP H6 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H6 DATED MAY 20, 2011 - PAGE 223 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H6

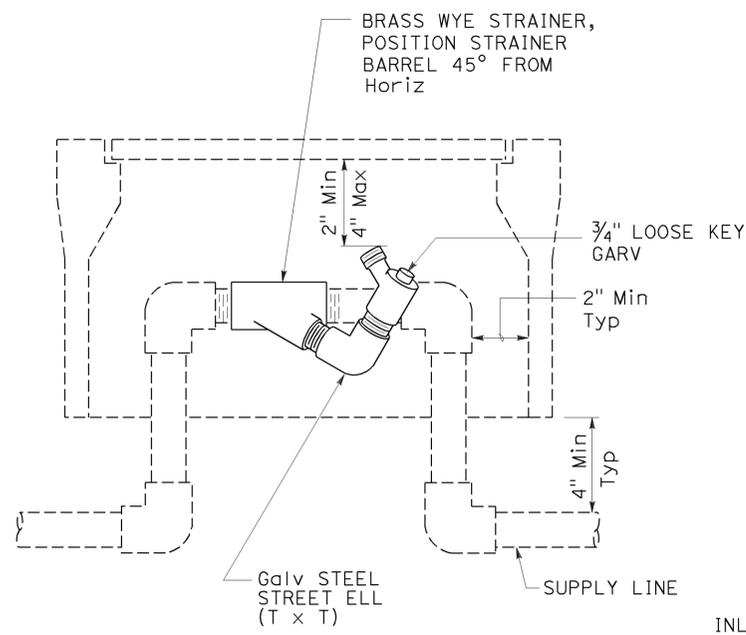
2010 REVISED STANDARD PLAN RSP H6

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 45 | 95 |

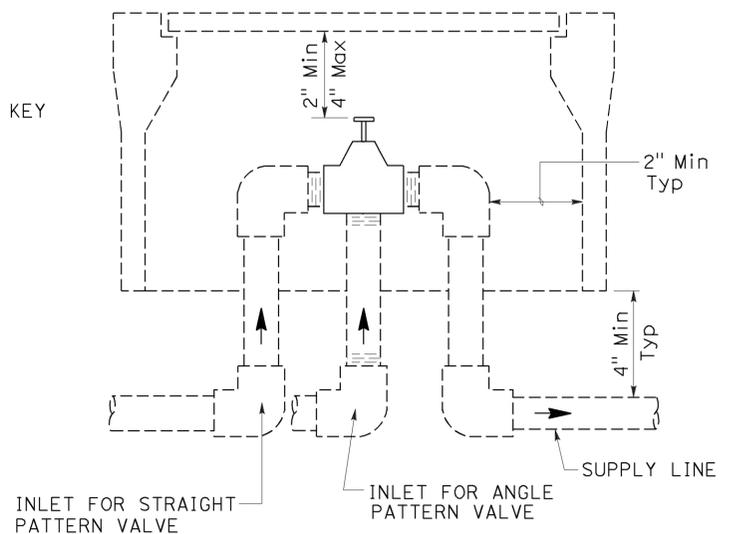
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
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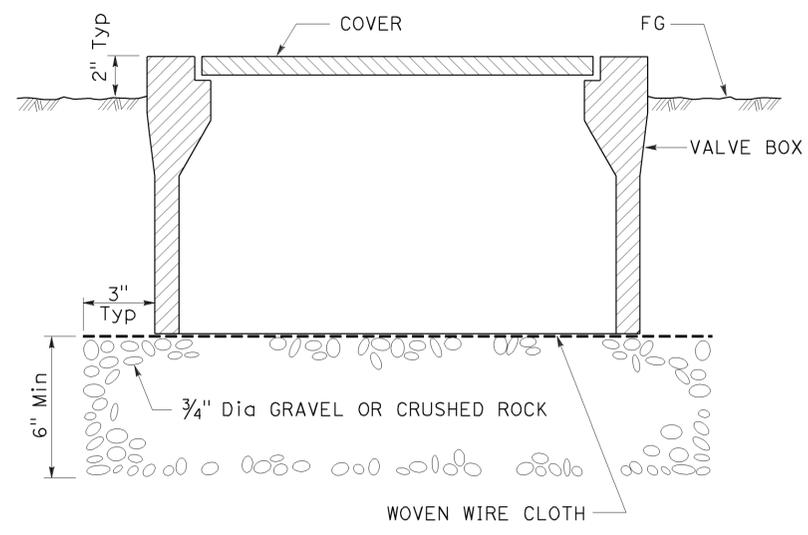
TO ACCOMPANY PLANS DATED 5-12-14



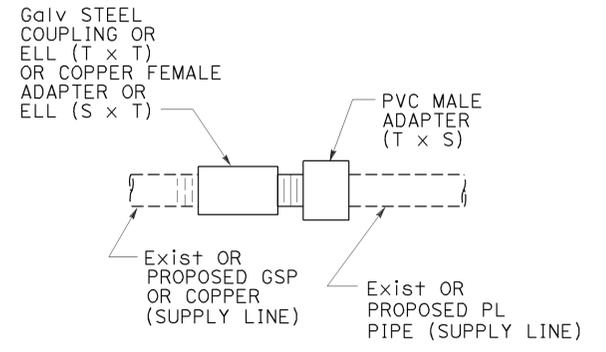
ELEVATION
WYE STRAINER ASSEMBLY



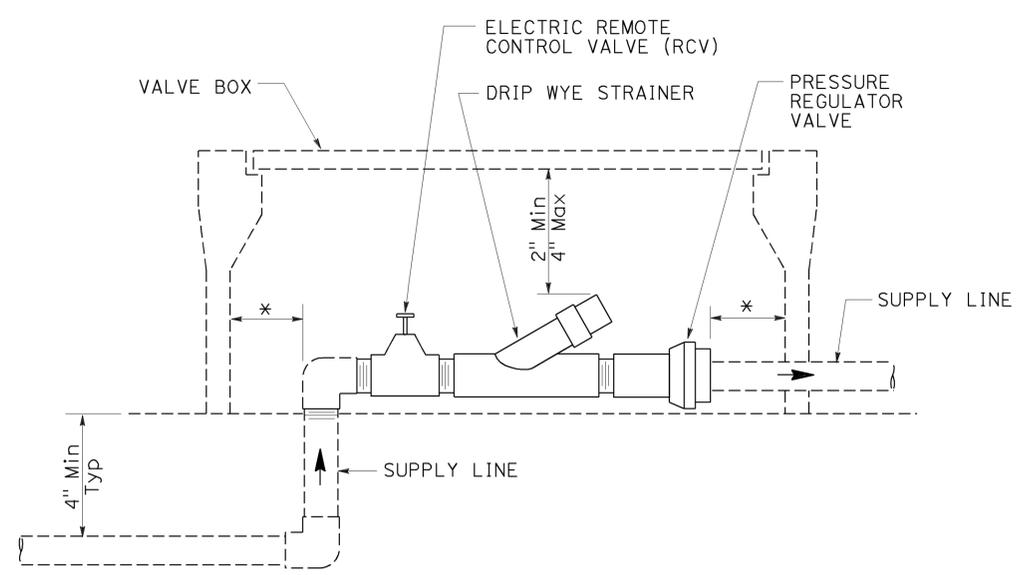
ELEVATION
VALVE



SECTION
VALVE BOX



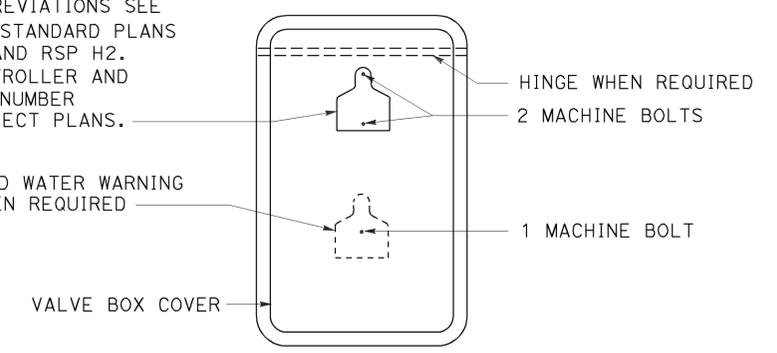
GALVANIZED OR COPPER PIPE CONNECTION TO PLASTIC PIPE



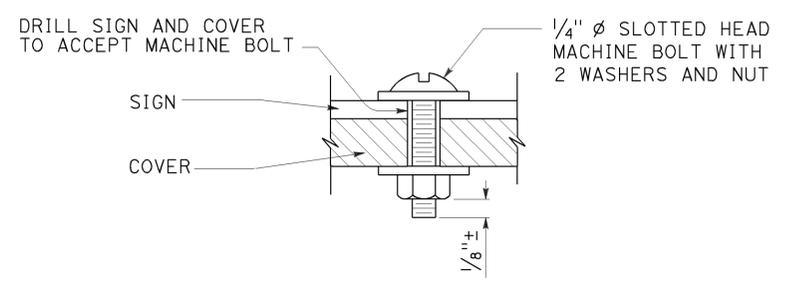
ELEVATION
DRIP VALVE ASSEMBLY

IDENTIFICATION LABEL:
FOR ABBREVIATIONS SEE
REVISED STANDARD PLANS
RSP H1 AND RSP H2.
FOR CONTROLLER AND
STATION NUMBER
SEE PROJECT PLANS.

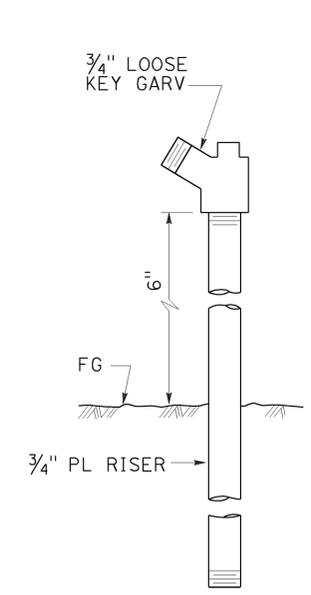
RECYCLED WATER WARNING
SIGN WHEN REQUIRED



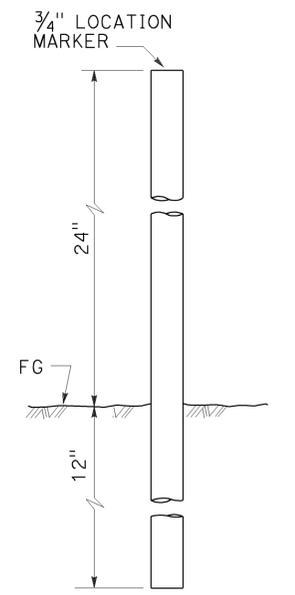
PLAN



SECTION
VALVE BOX IDENTIFICATION



ELEVATION
GARDEN VALVE ASSEMBLY



ELEVATION
LOCATION MARKER

GARDEN VALVE ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H7 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H7
DATED MAY 20, 2011 - PAGE 224 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H7

2010 REVISED STANDARD PLAN RSP H7

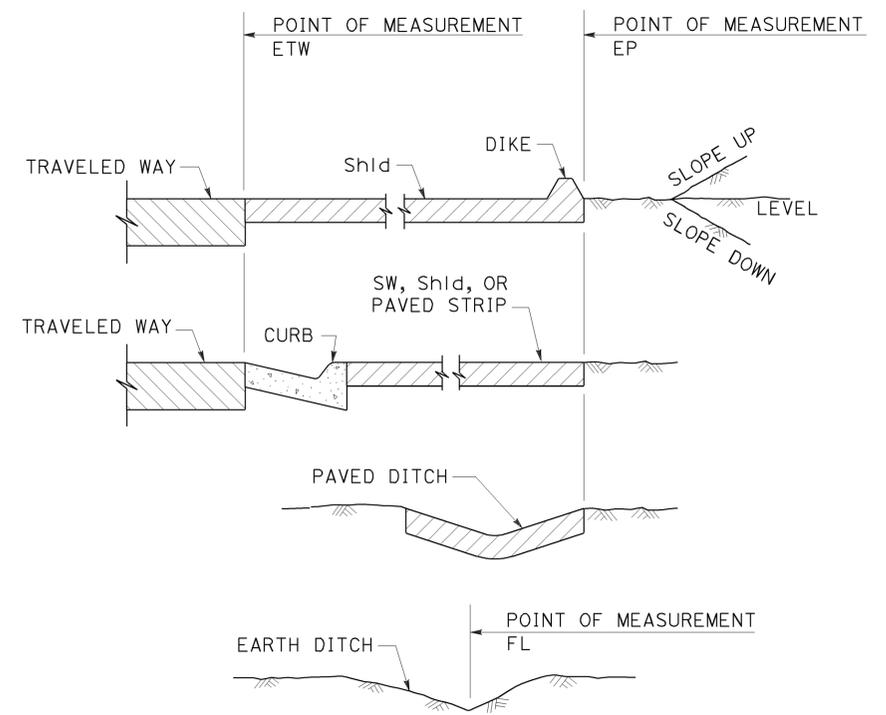
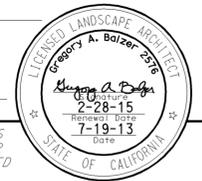
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 46 | 95 |

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT

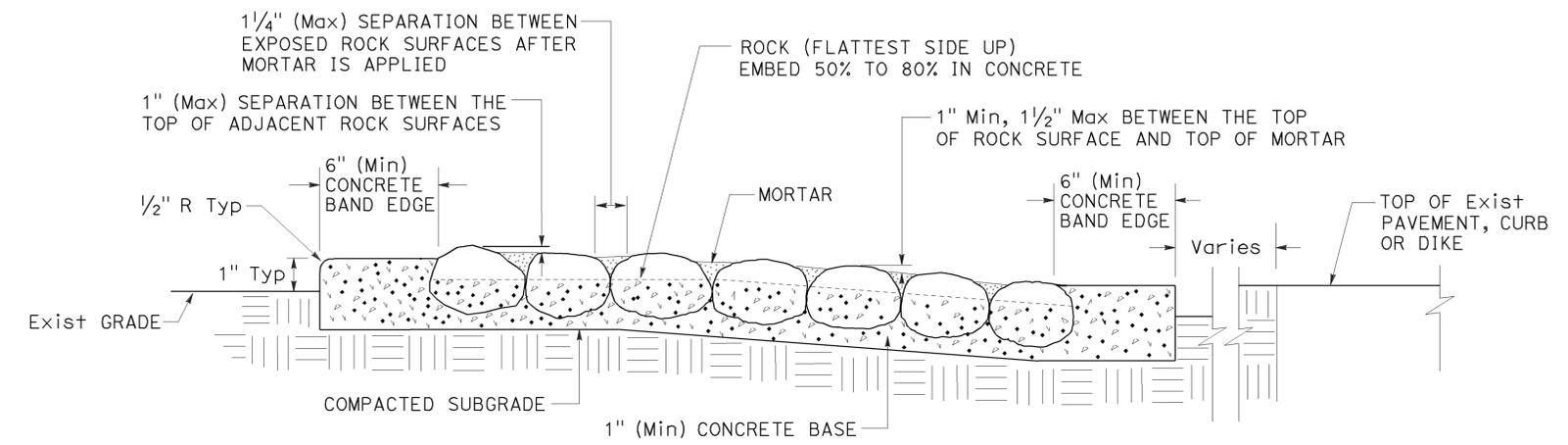
July 19, 2013
 PLANS APPROVAL DATE

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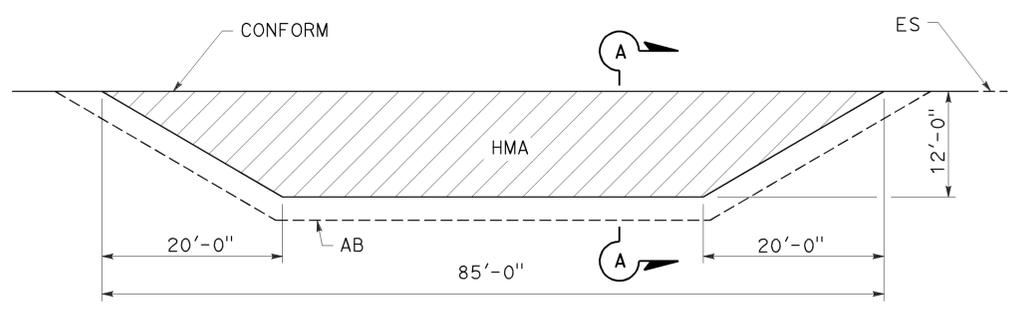
TO ACCOMPANY PLANS DATED 5-12-14



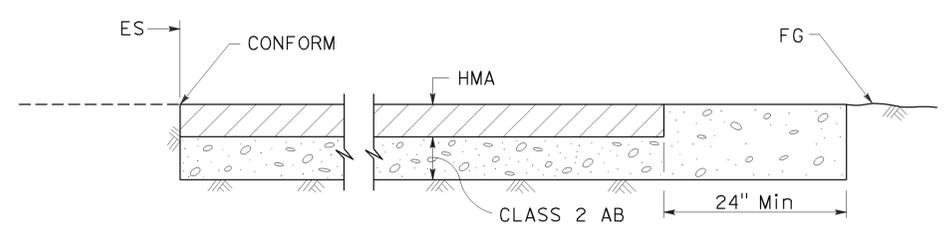
**SECTION
POINTS OF MEASUREMENT**



**SECTION
ROCK BLANKET**



PLAN



**SECTION A-A
MAINTENANCE VEHICLE PULLOUT**

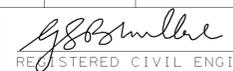
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
 NO SCALE

RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9A

2010 REVISED STANDARD PLAN RSP H9A

| | | | | | |
|------|--------|-------|-----------------------------|--------------|-----------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 47 | 95 |


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 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.

TO ACCOMPANY PLANS DATED 5-12-14

TABLE 1

| TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING | | | | | | | |
|---|---|--------------|-----------------|-----------------|--|---------|----------|
| SPEED (S) | MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W) | | | | MAXIMUM CHANNELIZING DEVICE SPACING | | |
| | TANGENT 2L | MERGING L | SHIFTING L/2 | SHOULDER L/3 | X | Y | Z ** |
| | | | | | TAPER | TANGENT | CONFLICT |
| mph | ft | ft | ft | ft | ft | ft | ft |
| 20 | 160 | 80 | 40 | 27 | 20 | 40 | 10 |
| 25 | 250 | 125 | 63 | 42 | 25 | 50 | 12 |
| 30 | 360 | 180 | 90 | 60 | 30 | 60 | 15 |
| 35 | 490 | 245 | 123 | 82 | 35 | 70 | 17 |
| 40 | 640 | 320 | 160 | 107 | 40 | 80 | 20 |
| 45 | 1080 | 540 | 270 | 180 | 45 | 90 | 22 |
| 50 | 1200 | 600 | 300 | 200 | 50 | 100 | 25 |
| 55 | 1320 | 660 | 330 | 220 | 55 | 110 | 27 |
| 60 | 1440 | 720 | 360 | 240 | 60 | 120 | 30 |
| 65 | 1560 | 780 | 390 | 260 | 65 | 130 | 32 |
| 70 | 1680 | 840 | 420 | 280 | 70 | 140 | 35 |

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

| LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING | | | | |
|---|----------|---------------------|-----|-----|
| SPEED * | Min D ** | DOWNGRADE Min D *** | | |
| | | -3% | -6% | -9% |
| | | ft | ft | ft |
| 20 | 115 | 116 | 120 | 126 |
| 25 | 155 | 158 | 165 | 173 |
| 30 | 200 | 205 | 215 | 227 |
| 35 | 250 | 257 | 271 | 287 |
| 40 | 305 | 315 | 333 | 354 |
| 45 | 360 | 378 | 400 | 427 |
| 50 | 425 | 446 | 474 | 507 |
| 55 | 495 | 520 | 553 | 593 |
| 60 | 570 | 598 | 638 | 686 |
| 65 | 645 | 682 | 728 | 785 |
| 70 | 730 | 771 | 825 | 891 |

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

| ADVANCE WARNING SIGN SPACING | | | |
|------------------------------------|--------------------------|------|------|
| ROAD TYPE | DISTANCE BETWEEN SIGNS * | | |
| | A | B | C |
| | ft | ft | ft |
| URBAN - 25 mph OR LESS | 100 | 100 | 100 |
| URBAN - MORE THAN 25 mph TO 40 mph | 250 | 250 | 250 |
| URBAN - MORE THAN 40 mph | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY / FREEWAY | 1000 | 1500 | 2640 |

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013
 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 48 | 95 |

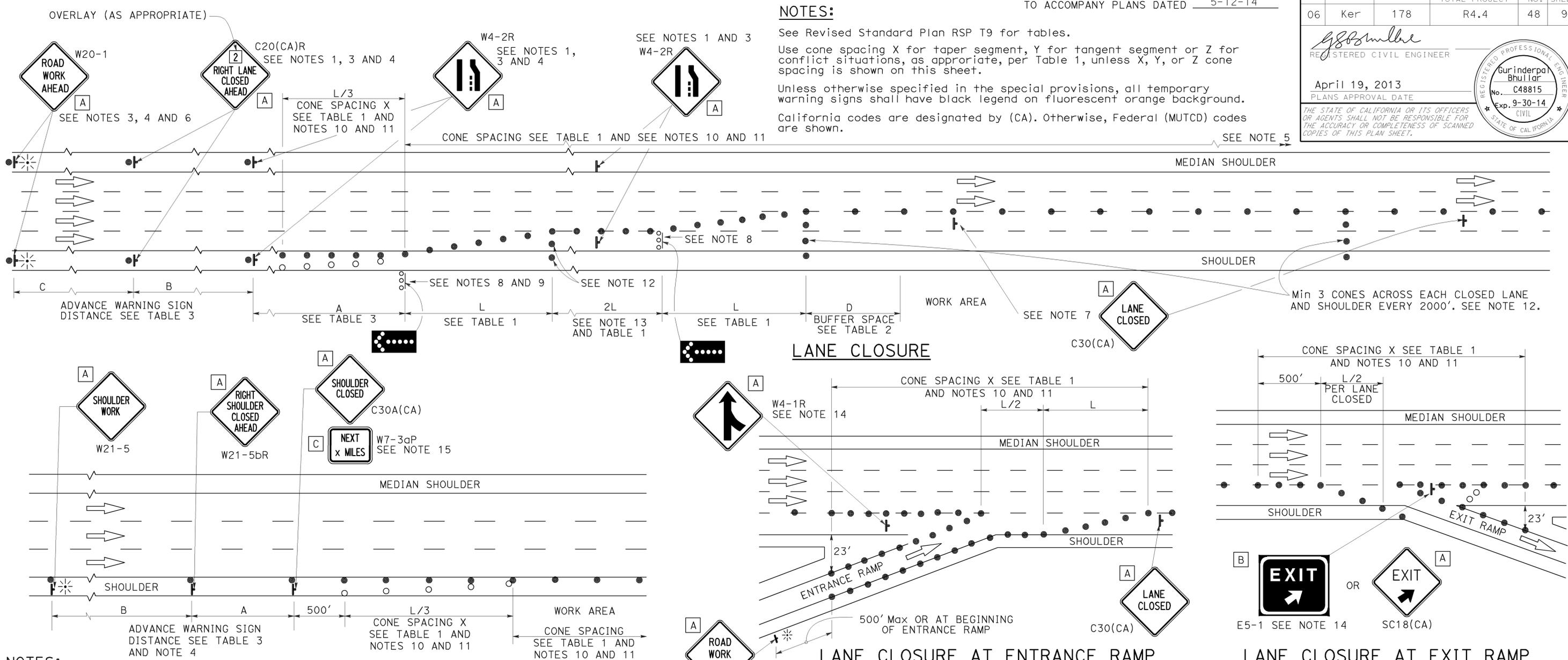
REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

TO ACCOMPANY PLANS DATED 5-12-14

NOTES:

See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

LANE CLOSURE AT ENTRANCE RAMP

12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 49 | 95 |

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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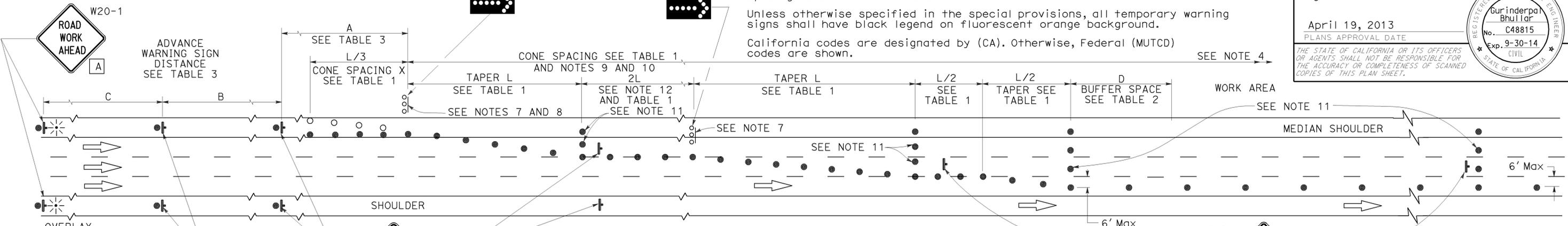
NOTES: See Revised Standard Plan RSP T9 for tables.

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

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

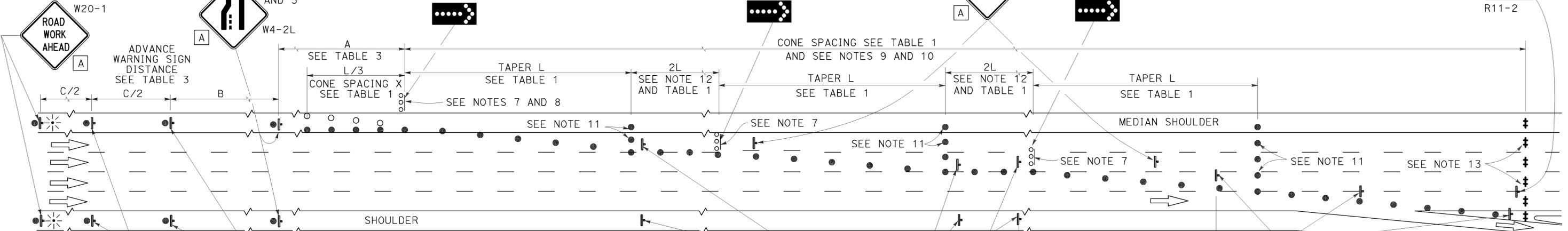
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

LEGEND:

| | |
|------------|--|
| AB | ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS |
| BC | INSTALL PULL BOX IN EXISTING CONDUIT RUN |
| BP | PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN |
| CB | INSTALL CONDUIT INTO EXISTING PULL BOX |
| CC | CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED |
| CF | CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE |
| DH | DETECTOR HANDHOLE |
| FA | FOUNDATION TO BE ABANDONED |
| IS | INSTALL SIGN ON SIGNAL MAST ARM |
| NS | NO SLIP BASE ON STANDARD |
| PEC | PHOTOELECTRIC CONTROL |
| PEU | PHOTOELECTRIC UNIT |
| RC | EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR |
| RE | REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS |
| RL | RELOCATE EQUIPMENT |
| RR | REMOVE AND REUSE EQUIPMENT |
| RS | REMOVE AND SALVAGE EQUIPMENT |
| SC | SPLICE NEW TO EXISTING CONDUCTORS |
| SD | SERVICE DISCONNECT |
| TSP | TELEPHONE SERVICE POINT |

ABBREVIATIONS

| | | | |
|-------|---|-------|--------------------------------------|
| APS | ACCESSIBLE PEDESTRIAN SIGNAL | M/M | MULTIPLE TO MULTIPLE TRANSFORMER |
| BBS | BATTERY BACKUP SYSTEM | Mtg | MOUNTING |
| BC | BOLT CIRCLE | MV | MERCURY VAPOR LIGHTING FIXTURE |
| BPB | BICYCLE PUSH BUTTON | MVDS | MICROWAVE VEHICLE DETECTION SYSTEM |
| C | CONDUIT | N | NEUTRAL (GROUNDED CONDUCTOR) |
| CB | CIRCUIT BREAKER | NB | NEUTRAL BUS |
| CCTV | CLOSED CIRCUIT TELEVISION | NC | NORMALLY CLOSE |
| Ck+ | CIRCUIT | NO | NORMALLY OPEN |
| CMS | CHANGEABLE MESSAGE SIGN | P | CIRCUIT BREAKER'S POLE |
| Ctid | CALTRANS IDENTIFICATION | PB | PULL BOX |
| Comm | COMMUNICATION | PBA | PUSH BUTTON ASSEMBLY |
| DLC | LOOP DETECTOR LEAD-IN CABLE | PEC | PHOTOELECTRIC CONTROL |
| EMS | EXTINGUISHABLE MESSAGE SIGN | Ped | PEDESTRIAN |
| EVUC | EMERGENCY VEHICLE UNIT CABLE | PEU | PHOTOELECTRIC UNIT |
| EVUD | EMERGENCY VEHICLE UNIT DETECTOR | PT | CONDUIT WITH PULL TAPE |
| FB | FLASHING BEACON | RE | RELOCATED EQUIPMENT |
| FBCA | FLASHING BEACON CONTROL ASSEMBLY | RM | RAMP METERING |
| FBS | FLASHING BEACON WITH SLIP BASE | RWIS | ROADSIDE WEATHER INFORMATION SYSTEM |
| FO | FIBER OPTIC | SB | SLIP BASE |
| G | EQUIPMENT GROUNDING CONDUCTOR | SIC | SIGNAL INTERCONNECT CABLE |
| GB | GROUND BUS | Sig | SIGNAL |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | SMA | SIGNAL MAST ARM |
| HAR | HIGHWAY ADVISORY RADIO | SNS | STREET NAME SIGN |
| Hex | HEXAGONAL | SP | SERVICE POINT |
| HPS | HIGH PRESSURE SODIUM | TDC | TELEPHONE DEMARCATION CABINET |
| IISNS | INTERNALLY ILLUMINATED STREET NAME SIGN | TMS | TRAFFIC MONITORING STATION |
| ISL | INDUCTION SIGN LIGHTING | TOS | TRAFFIC OPERATIONS SYSTEM |
| LED | LIGHT EMITTING DIODE | Veh | VEHICLE |
| LMA | LUMINAIRE MAST ARM | VIVDS | VIDEO IMAGE VEHICLE DETECTION SYSTEM |
| LPS | LOW PRESSURE SODIUM | WIM | WEIGH-IN-MOTION |
| Ltg | LIGHTING | Xfmr | TRANSFORMER |
| Lum | LUMINAIRE | | |
| M | METERED | | |
| MAT | MAST ARM MOUNTING TOP ATTACHMENT | | |
| MAS | MAST ARM MOUNTING SIDE ATTACHMENT | | |

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 50 | 95 |

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-12-14

SOFFIT AND WALL MOUNTED LUMINAIRES

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

| SYMBOL USED | DEFINITIONS |
|-------------|----------------------------|
| Ω | OHMS |
| min | MINUTE |
| s | SECOND |
| bps | BITS PER SECOND |
| Bps | BYTES PER SECOND |
| A | AMPERE |
| V | VOLT |
| V(dc) | VOLT (DIRECT CURRENT) |
| V(ac) | VOLT (ALTERNATING CURRENT) |
| FC | FOOT - CANDLE |
| W | WATTS |
| VA | VOLT-AMPERE |
| M | MEGA |
| k | KILO |
| m | MILLI |
| μ | MICRO |
| P | PICO |
| Hz | HERTZ |

MISCELLANEOUS ELECTROLIERS

| NEW | EXISTING | |
|-----|----------|---|
| | | LUMINAIRE ON WOOD POLE |
| | | NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS) |
| | | CITY ELECTROLIER |
| | | ELECTROLIER FOUNDATION (FUTURE INSTALLATION) |

- NOTES:**
- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
 - LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

| NEW | EXISTING | STANDARD TYPE |
|-----|----------|---------------|
| | | 15 |
| | | 15D |
| | | 15 STRUCTURE |
| | | 15D STRUCTURE |
| | | 21 |
| | | 21D |
| | | 21 STRUCTURE |
| | | 21D STRUCTURE |
| | | 30 |
| | | 31 |
| | | 32 |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 51 | 95 |

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 5-12-14

CONDUIT

| NEW | EXISTING | |
|----------|----------|---|
| --- | --- | LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED |
| --- | --- | TRAFFIC SIGNAL CONDUIT |
| ---C--- | ---c--- | COMMUNICATION CONDUIT |
| ---T--- | ---t--- | TELEPHONE CONDUIT |
| ---F--- | ---f--- | FIRE ALARM CONDUIT |
| ---FO--- | ---fo--- | FIBER OPTIC CONDUIT |
| --- | --- | CONDUIT TERMINATION |
| | | CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE |

SIGNAL EQUIPMENT

| NEW | EXISTING | |
|-----|----------|---|
| | | PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD |
| | | PUSH BUTTON ASSEMBLY POST |
| | | PEDESTRIAN BARRICADE |
| | | VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN) |
| | | VEHICLE SIGNAL HEAD WITH ANGLE VISOR |
| | | MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED) |
| | | VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS |
| | | VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION |
| | | VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS |
| | | TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE |
| | | TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE |
| | | STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS |
| | | TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS |
| | | STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN |
| | | CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET |

SERVICE EQUIPMENT

| NEW | EXISTING | |
|----------|----------|---|
| ---OH--- | ---oh--- | OVERHEAD LINES |
| | | WOOD POLE, "U" INDICATES UTILITY OWNED |
| | | POLE GUY WITH ANCHOR |
| | | UTILITY TRANSFORMER - GROUND MOUNTED |
| | | SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE |
| | | TELEPHONE DEMARCATION CABINET |

POLE-MOUNTED SERVICE DESIGNATION

| | | |
|--|-------------------------|--|
| | TYPE H SERVICE, 28'-10" | TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE |
|--|-------------------------|--|

FLASHING BEACON

| NEW | EXISTING | |
|-----|----------|--|
| | | FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION |
| | | FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN. |
| | | FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED |

SIGNAL EQUIPMENT Cont

| NEW | EXISTING | |
|-----|----------|---|
| | | GUARD POST |
| | | TYPE 1 STANDARD WITH RAMP METERING SIGN |
| | | OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM |

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

ILLUMINATED OVERHEAD SIGN

| NEW | EXISTING | |
|-----|----------|--|
| | | SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY |
| | | SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY |
| | | SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER |
| | | DOUBLE POST, SINGLE ILLUMINATED SIGN |
| | | SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE |
| | | DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

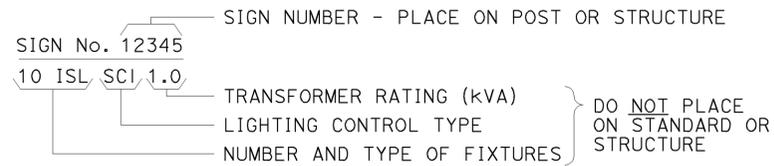
RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

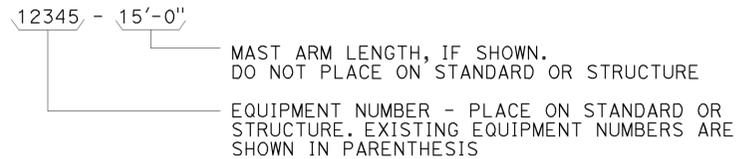
2010 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

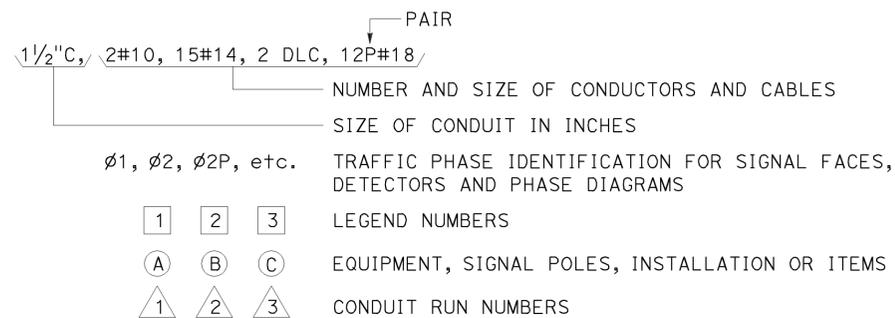
ILLUMINATED SIGN IDENTIFICATION NUMBER:



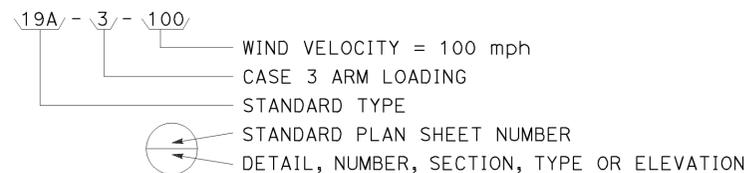
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



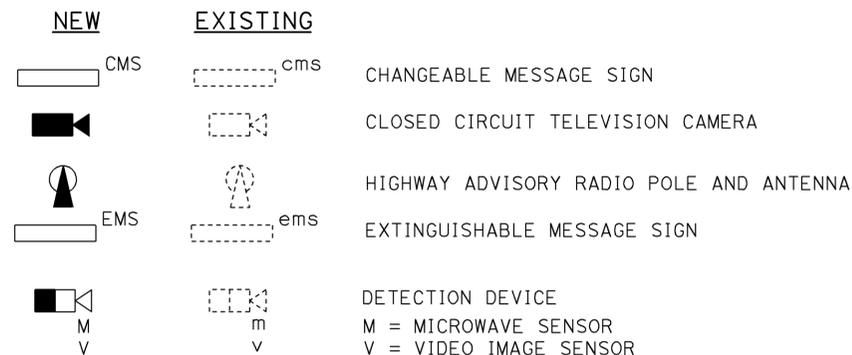
CONDUIT AND CONDUCTOR IDENTIFICATION:



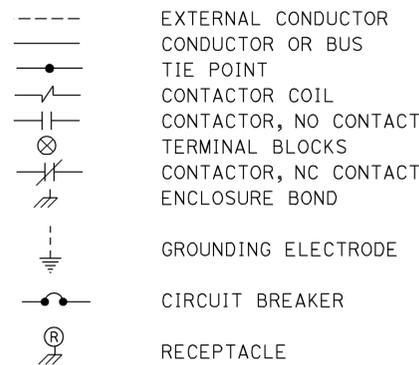
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



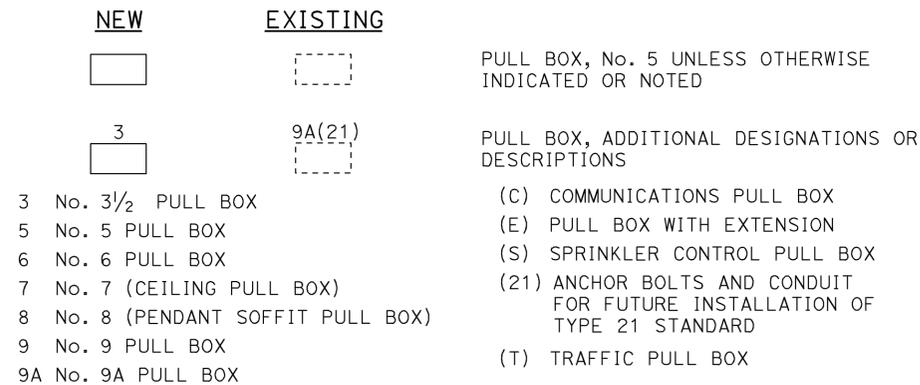
MISCELLANEOUS EQUIPMENT



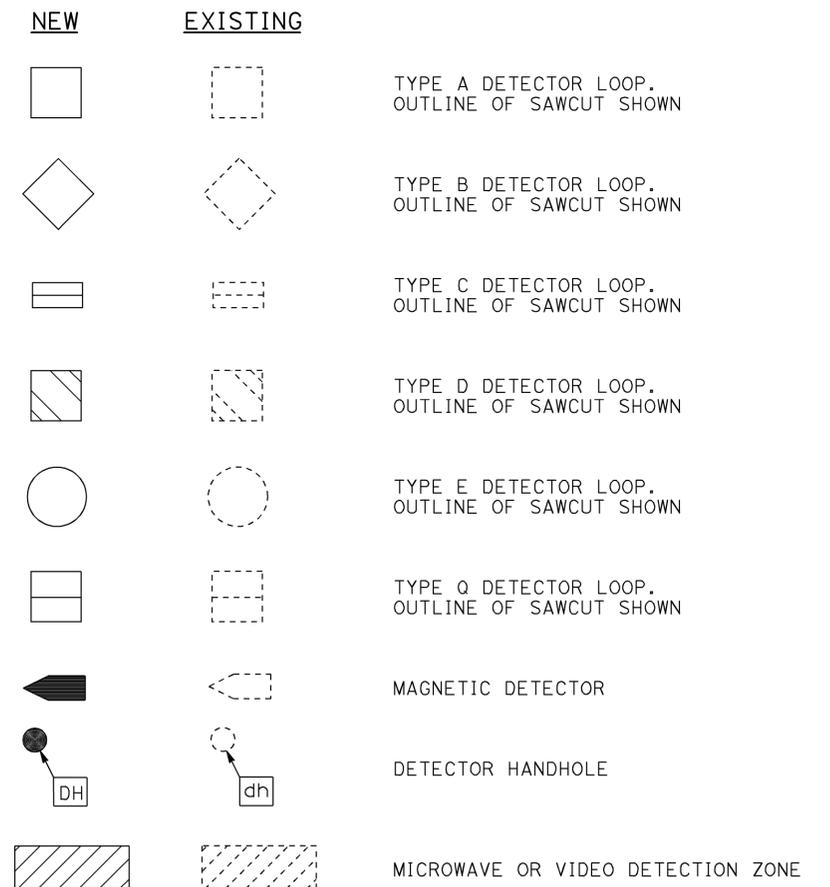
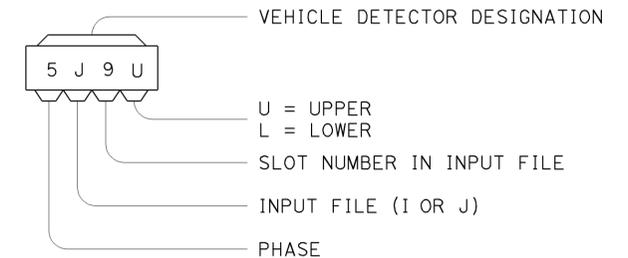
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

2010 REVISED STANDARD PLAN RSP ES-1C

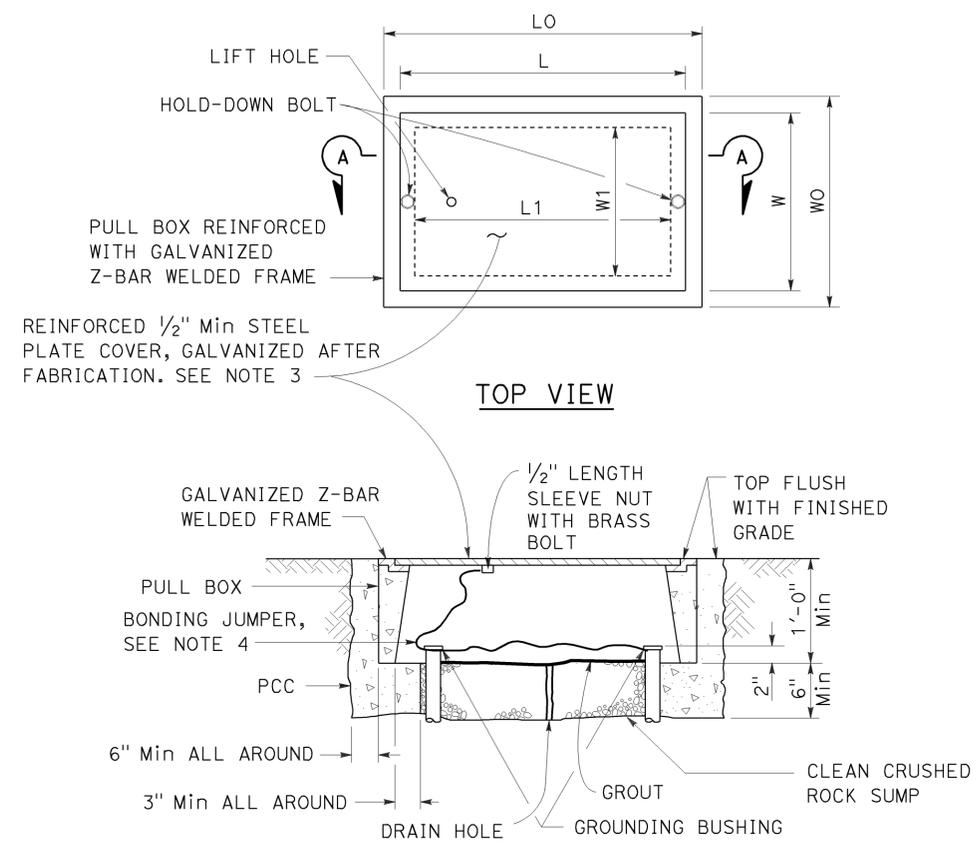
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 53 | 95 |

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 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.

REGISTERED PROFESSIONAL ENGINEER
 Theresa Aziz Gabriel
 No. E15129
 Exp. 6-30-14
 ELECTRICAL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 5-12-14



SECTION A-A
**No. 3 1/2(T), No. 5(T) AND
 No. 6(T) TRAFFIC PULL BOX**

NOTES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
 - No. 3 1/2(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
 - "BOOSTER PUMP" - Booster pump circuit.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8".

| PULL BOX | PULL BOX | | | | | | COVER | | | | |
|--------------|---------------------|---------------------------------|----------------|-------------|-------------|-------------|--------|------------|----|----------------|------------|
| | MINIMUM * THICKNESS | MINIMUM DEPTH BOX AND EXTENSION | W0 | L0 | L1 | W1 | L ** | W ** | R | EDGE THICKNESS | EDGE TAPER |
| No. 3 1/2(T) | 1 1/2" | 1'-0" | 1'-5"± 1" | 1'-8 3/8"± | 1'-2 1/2"± | 10 5/8"± 1" | 1'-8"± | 1'-1 3/4"± | 0" | 1/2" | NONE |
| No. 5(T) | 1 3/4" | 1'-0" | 1'-11 1/2"± 1" | 2'-5 1/2"± | 1'-7"± | 1'-1"± 1" | 2'-3"± | 1'-4"± | 0" | 1/2" | NONE |
| No. 6(T) | 2" | 1'-0" | 2'-6"± 1" | 2'-11 1/2"± | 1'-11 1/2"± | 1'-5"± 1" | 2'-9"± | 1'-8"± | 0" | 1/2" | NONE |

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (TRAFFIC PULL BOX)**
 NO SCALE

RSP ES-8B DATED JULY 19, 2013 SUPERSEDES RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
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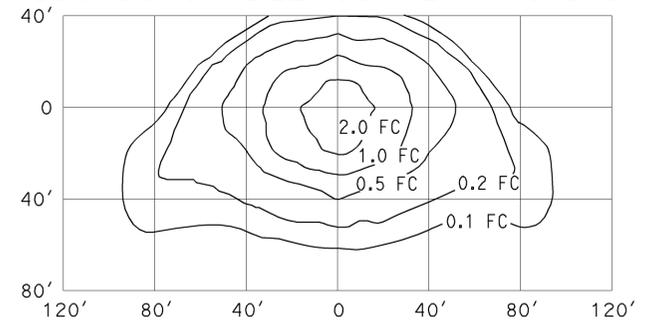
Theresa Gabriel
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 PLANS APPROVAL DATE

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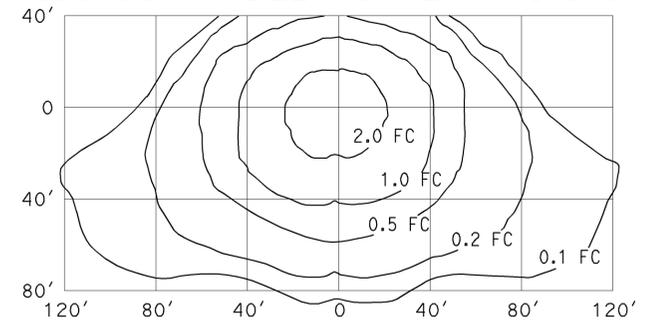
TO ACCOMPANY PLANS DATED 5-12-14

ISOFOOTCANDLE CURVE - MINIMUM



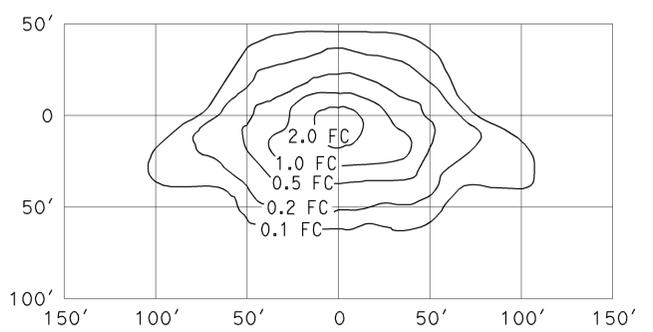
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 34' Mounting Height
 Lamp operated at 22,000 lm
 200-W high pressure sodium lamp
 ANSI Designation S66

ISOFOOTCANDLE CURVE - MINIMUM



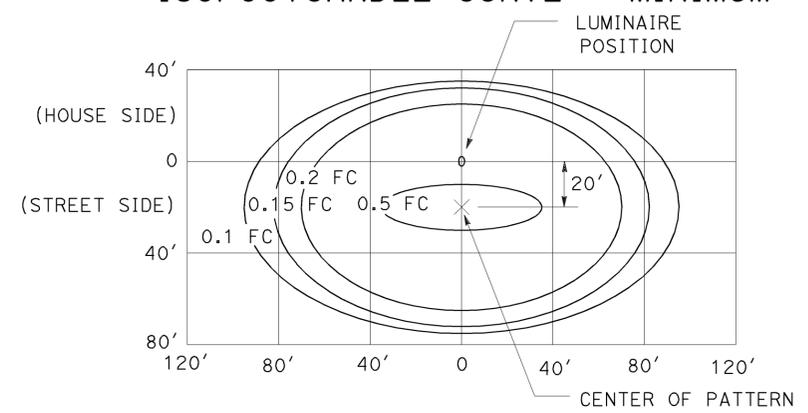
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 40' Mounting Height
 Lamp operated at 37,000 lm
 310-W high pressure sodium lamp
 ANSI Designation S67

ISOFOOTCANDLE CURVE - MINIMUM



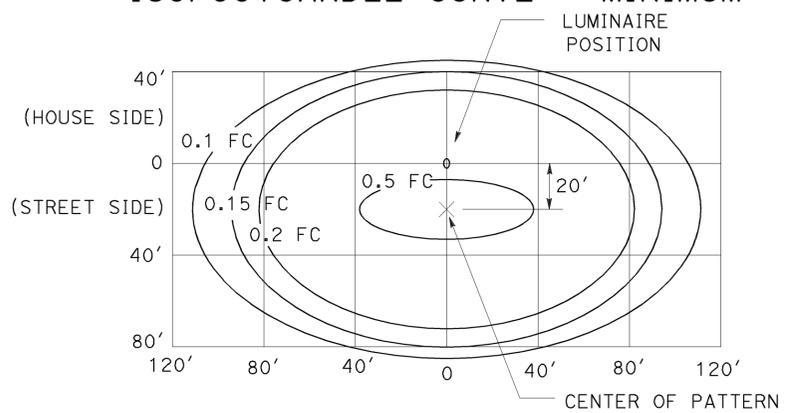
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 30' Mounting Height
 Lamp operated at 16,000 lm
 150-W high pressure sodium lamp
 ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



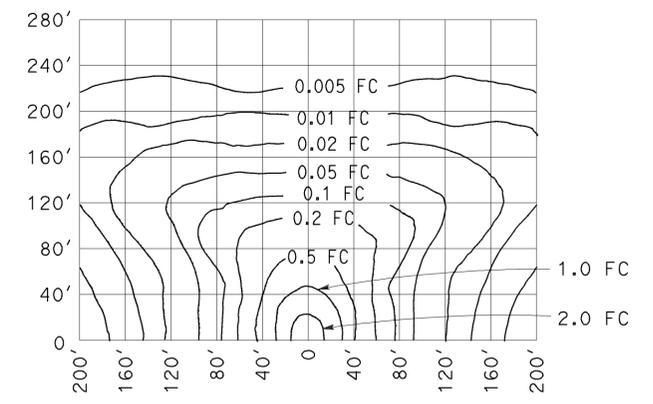
LED LUMINAIRE ROADWAY 1
 165-W at 34' Mounting Height

ISOFOOTCANDLE CURVE - MINIMUM



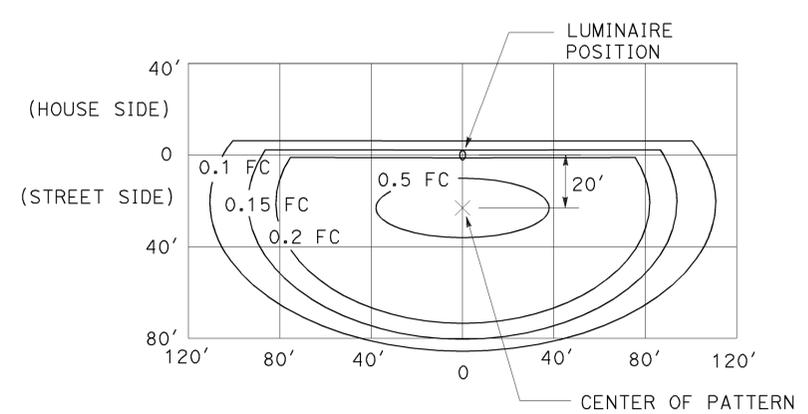
LED LUMINAIRE ROADWAY 2
 235-W at 40' Mounting Height

ISOFOOTCANDLE CURVE - MINIMUM



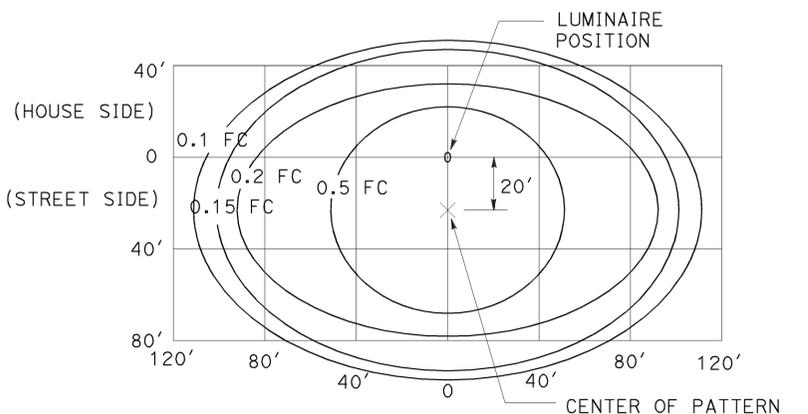
LOW PRESSURE SODIUM LUMINAIRE
 40' Mounting Height
 Lamp operated at 33,000 lm
 180-W low pressure sodium lamp

ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 3
 235-W at 40' Mounting Height
 with back side control

ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4
 300-W at 40' Mounting Height

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (ISOFOOTCANDLE DIAGRAMS)**

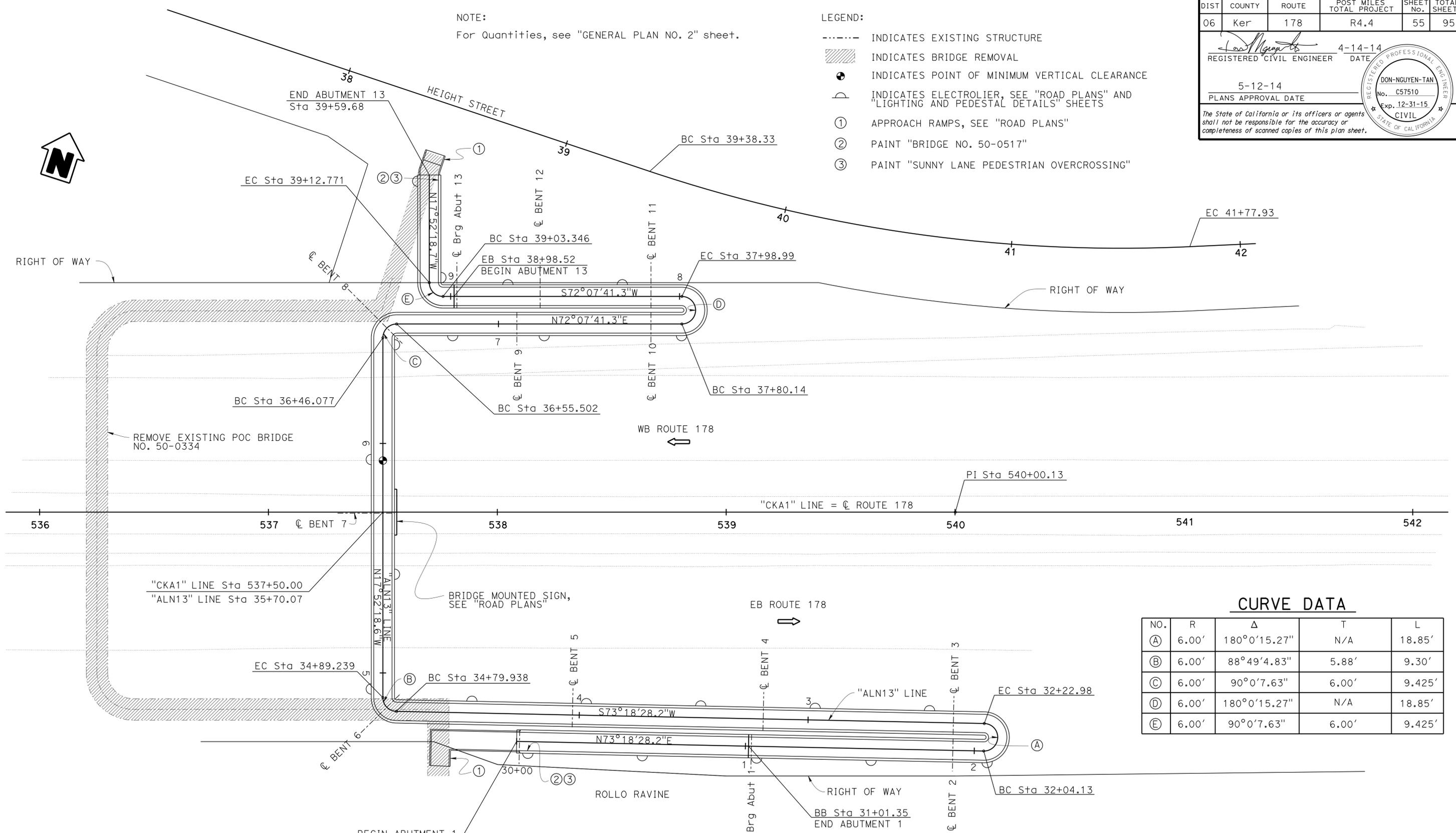
NO SCALE
 RSP ES-10A DATED JULY 19, 2013 SUPERSEDES RSP ES-10A DATED JULY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-10A

| | | | | | |
|--|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 55 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 4-14-14 | DATE | |
| 5-12-14 PLANS APPROVAL DATE | | |  | | |
| <small>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.</small> | | | | | |

NOTE:
For Quantities, see "GENERAL PLAN NO. 2" sheet.

- LEGEND:
- INDICATES EXISTING STRUCTURE
 -  INDICATES BRIDGE REMOVAL
 -  INDICATES POINT OF MINIMUM VERTICAL CLEARANCE
 -  INDICATES ELECTROLIER, SEE "ROAD PLANS" AND "LIGHTING AND PEDESTAL DETAILS" SHEETS
 - ① APPROACH RAMP, SEE "ROAD PLANS"
 - ② PAINT "BRIDGE NO. 50-0517"
 - ③ PAINT "SUNNY LANE PEDESTRIAN OVERCROSSING"



CURVE DATA

| NO. | R | Δ | T | L |
|-----|-------|--------------|-------|--------|
| (A) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (B) | 6.00' | 88°49'4.83" | 5.88' | 9.30' |
| (C) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |
| (D) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (E) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |

PLAN
1" = 20'

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

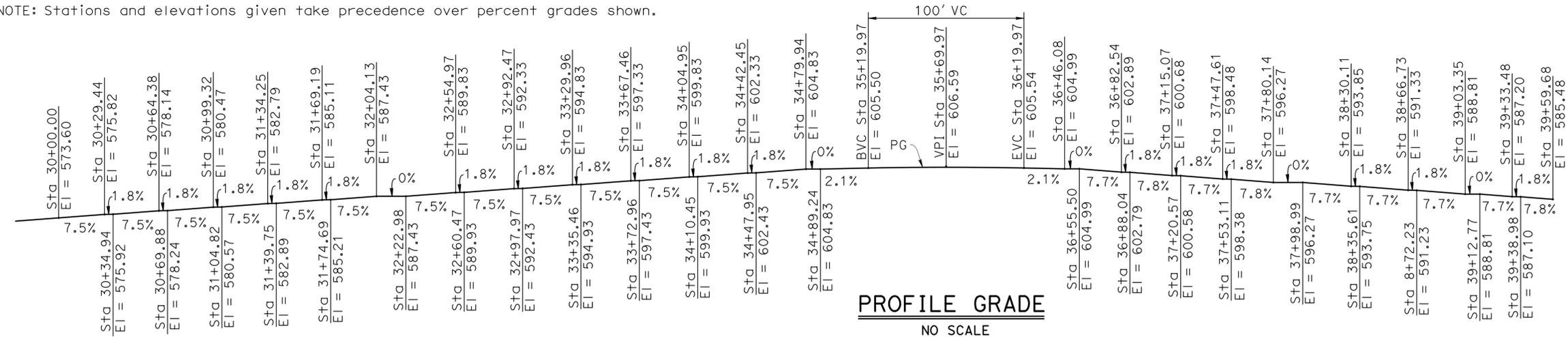
| | | | | | | | | | | | |
|--|------------|-------------------|---------------------------|---------------------------------|---------------------------------|--|--|--------------------------------------|--|---|---------------|
| Gary Blakesley DESIGN ENGINEER | DESIGN | BY David Alvarez | CHECKED Hilario Tuazon | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADING: PEDESTRIAN AND H5 | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. | SUNNY LANE POC GENERAL PLAN NO. 1 | | |
| | DETAILS | BY David Elliott | CHECKED Hilario Tuazon | LAYOUT | BY David Elliott | | | CHECKED Hilario Tuazon | | 50-0517 | |
| | QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington | SPECIFICATIONS | BY Sirisha Nelapatla | | | PLANS AND SPECS COMPARED Jim Corrado | | R 4.35 | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | | 0 1 2 3 | UNIT: 3591 PROJECT NUMBER & PHASE: 0614000265-1 CONTRACT NO.: 06-0H6414 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | REVISION DATES 3-28-14 2-27-14 3-12-14 | SHEET 1 OF 41 |

NOTE: Stations and elevations given take precedence over percent grades shown.

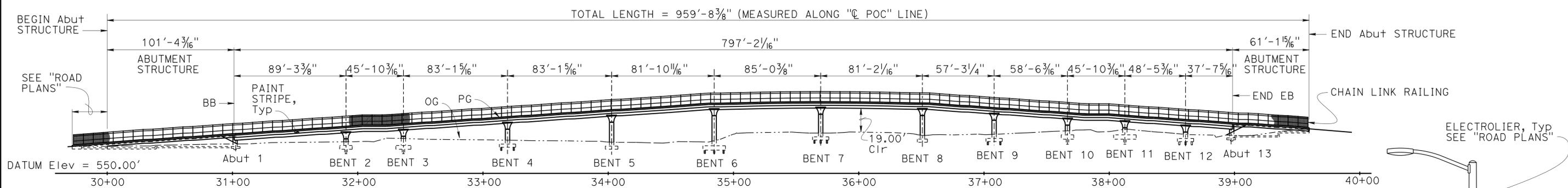
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 56 | 95 |

4-14-14
 REGISTERED CIVIL ENGINEER DATE
 5-12-14
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 DON-NGUYEN-TAN
 No. C57510
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



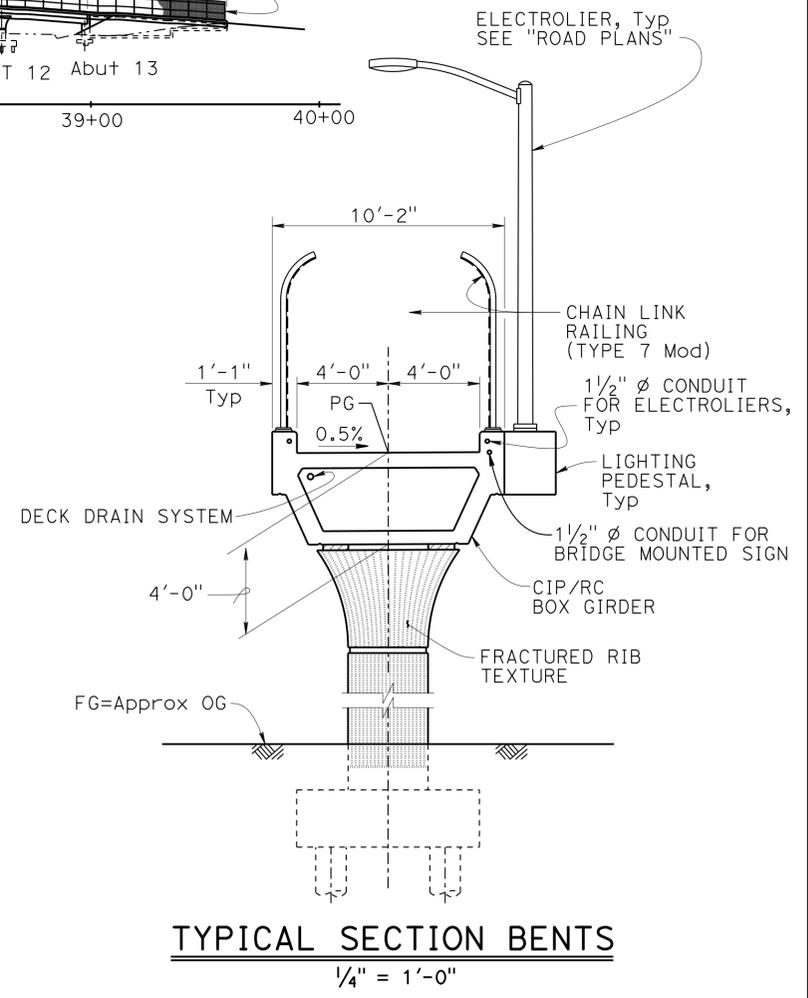
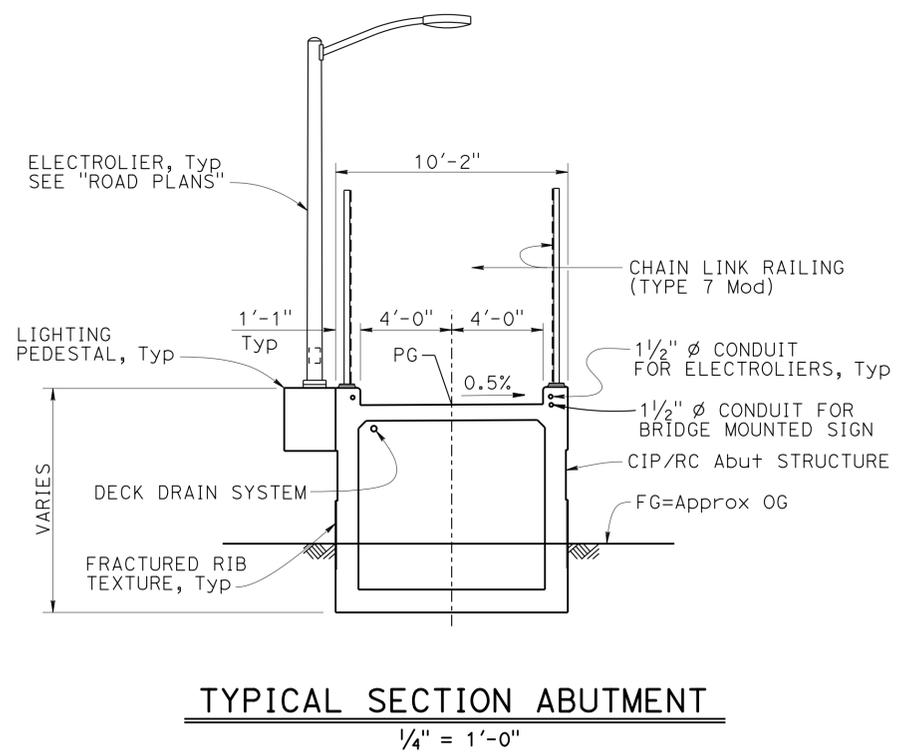
NOTES:
 1. Electroliers not shown in "DEVELOPED ELEVATION, see "STRUCTURE PLANS" and "LIGHTING PEDESTAL DETAILS" sheet for location and details.



- BAR REINFORCEMENT SPLICING NOTES:
- "Ultimate butt splices" are required for the column hoop reinforcement.
 - No splices are allowed in main column reinforcing.
 - "Service splices" are required for:
 - Additional Reinforcement in superstructure
 - Bar reinforcing in bent caps
 - Bar reinforcing in pile cap and spread footings
 - "Lap splices" are allowed for bar reinforcing in:
 - Abutment structures
 - Girder, curb, soffit, and deck (except additional reinforcement)

QUANTITIES

| DESCRIPTION | LUMP | SUM |
|--------------------------------------|---------|------|
| BRIDGE REMOVAL | | |
| STRUCTURE EXCAVATION (BRIDGE) | 690 | CY |
| STRUCTURE BACKFILL (BRIDGE) | 350 | CY |
| FURNISH PILING (CLASS 200) | 1,557 | LF |
| (ALTERNATIVE W) | | |
| DRIVE PILE (CLASS 200) | 30 | EA |
| (ALTERNATIVE W) | | |
| STRUCTURAL CONCRETE, BRIDGE FOOTING | 194 | CY |
| STRUCTURAL CONCRETE, BRIDGE | 910 | CY |
| FRACTURED RIB TEXTURE | 2,300 | SOFT |
| JOINT SEAL (MR 1 1/2") | 18 | LF |
| BAR REINFORCING STEEL (BRIDGE) | 270,600 | LB |
| BRIDGE DECK DRAINAGE SYSTEM | 4,100 | LB |
| CHAIN LINK RAILING (TYPE 7 MODIFIED) | 1,916 | LF |



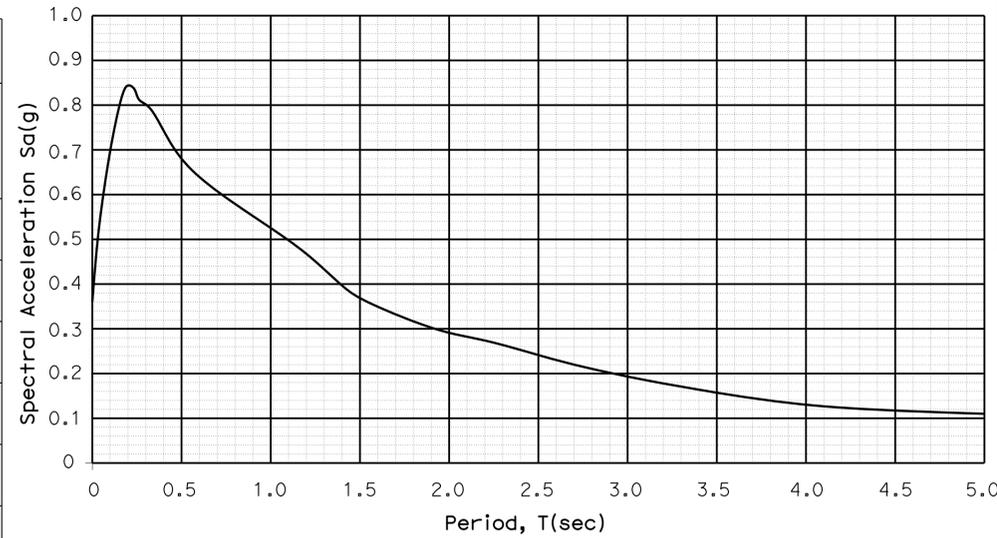
NOTE:
 VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

| | | | | | | | | | | |
|-----------------------------------|------------|-------------------|---------------------------|---------------------------------|---------------------------------|---|---|--------------------------|-------------|--------------------------------------|
| Gary Blakesley DESIGN ENGINEER | DESIGN | BY David Alvarez | CHECKED Hilario Tuazon | LOAD & RESISTANCE FACTOR DESIGN | LIVE LOADING: PEDESTRIAN AND H5 | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. | 50-0517 | SUNNY LANE POC GENERAL PLAN NO. 2 |
| | DETAILS | BY David Elliott | CHECKED Hilario Tuazon | LAYOUT | BY David Elliott | | | POST MILE | R 4.35 | |
| | QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington | SPECIFICATIONS | BY Sirisha Nelapatla | | | PLANS AND SPECS COMPARED | JIM CORRADO | |

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 UNIT: 3591
 PROJECT NUMBER & PHASE: 0614000265-1
 CONTRACT NO.: 06-0H6414
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES: 3-28-14, 3-28-14, 3-28-14
 SHEET 2 OF 41

SPREAD FOOTING DATA TABLE

| SUPPORT LOCATION | WORKING STRESS DESIGN (WSD) | | LOAD AND RESISTANCE FACTOR DESIGN (LRFD) | | |
|------------------|---|--|---|---|--|
| | PERMISSIBLE GROSS CONTACT STRESS (SETTLEMENT) (ksf) | ALLOWABLE GROSS BEARING CAPACITY (ksf) | SERVICE NET PERMISSABLE CONTACT STRESS (SETTLEMENT) (ksf) | STRENGTH FACTORED GROSS NOMINAL BEARING RESISTANCE $\phi_b = .45$ (ksf) | EXTREME EVENT GROSS NOMINAL BEARING RESISTANCE $\phi_b = 1.00$ (ksf) |
| ABUTMENT 1 | 5.8 | 8.2 | N/A | N/A | N/A |
| BENT 2 | N/A | N/A | 4.6 | 25.8 | 57.3 |
| BENT 3 | N/A | N/A | 4.0 | 26.7 | 59.4 |
| BENT 5 | N/A | N/A | 4.3 | 24.2 | 53.8 |
| BENT 8 | N/A | N/A | 5.2 | 22.9 | 50.8 |
| BENT 10 | N/A | N/A | 4.9 | 27.4 | 60.9 |
| BENT 11 | N/A | N/A | 3.4 | 31.3 | 69.4 |
| ABUTMENT 13 | 5.3 | 7.8 | N/A | N/A | N/A |



ACCELERATION RESPONSE SPECTRA CURVE

No Scale

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 57 | 95 |

4-14-14
 REGISTERED CIVIL ENGINEER DATE
 5-12-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DON NGUYEN-TAN
 No. C57510
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA

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INDEX TO PLANS

- 1 GENERAL PLAN NO. 1
- 2 GENERAL PLAN NO. 2
- 3 INDEX TO PLANS
- 4 STRUCTURE PLAN NO. 1
- 5 STRUCTURE PLAN NO. 2
- 6 STRUCTURE PLAN NO. 3
- 7 STRUCTURE PLAN NO. 4
- 8 DECK CONTOURS NO. 1
- 9 DECK CONTOURS NO. 2
- 10 DECK CONTOURS NO. 3
- 11 DECK CONTOURS NO. 4
- 12 DECK CONTOURS NO. 5
- 13 DECK CONTOURS NO. 6
- 14 FOUNDATION PLAN
- 15 ABUTMENT LAYOUT
- 16 ABUTMENT DETAILS NO. 1
- 17 ABUTMENT DETAILS NO. 2
- 18 BENT LAYOUT
- 19 BENT DETAILS NO. 1
- 20 BENT DETAILS NO. 2
- 21 BENT DETAILS NO. 3
- 22 BENT DETAILS NO. 4
- 23 BENT DETAILS NO. 5
- 24 BENT DETAILS NO. 6
- 25 BENT DETAILS NO. 7
- 26 BENT DETAILS NO. 8
- 27 BENT DETAILS NO. 9
- 28 BENT DETAILS NO. 10
- 29 BENT DETAILS NO. 11
- 30 TYPICAL SECTION
- 31 GIRDER LAYOUT
- 32 ADDITIONAL REINFORCEMENT NO. 1
- 33 ADDITIONAL REINFORCEMENT NO. 2
- 34 ADDITIONAL REINFORCEMENT NO. 3
- 35 ADDITIONAL REINFORCEMENT NO. 4
- 36 ADDITIONAL REINFORCEMENT NO. 5
- 37 LIGHTING PEDESTAL DETAILS
- 38 CHAIN LINK RAILING DETAILS NO. 1
- 39 CHAIN LINK RAILING DETAILS NO. 2
- 40 LOG OF TEST BORINGS
- 41 LOG OF TEST BORINGS (AS-BUILTS)

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:

AASHTO LRFD Bridge Design Specifications, 4th edition and the California Amendments Preface dated November 2011. AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, December 2009.

SEISMIC DESIGN:

Caltrans Seismic Design Criteria (SDC), Version 1.7 dated April 2013.

LIVE LOADING:

Pedestrian and H5 Design loading.

SEISMIC LOADING:

USGS Interactive Deaggregation procedure with 5% probability of Exceedance in 50 years

PGA = 0.38g
 $M_{max} = 7.4$
 $V_{s30} = 890$ ft/s
 See "ACCELERATION RESPONSE SPECTRUM"

REINFORCED CONCRETE:

$f_y = 60,000$ psi
 See "CONCRETE STRENGTH AND TYPE LIMITS"

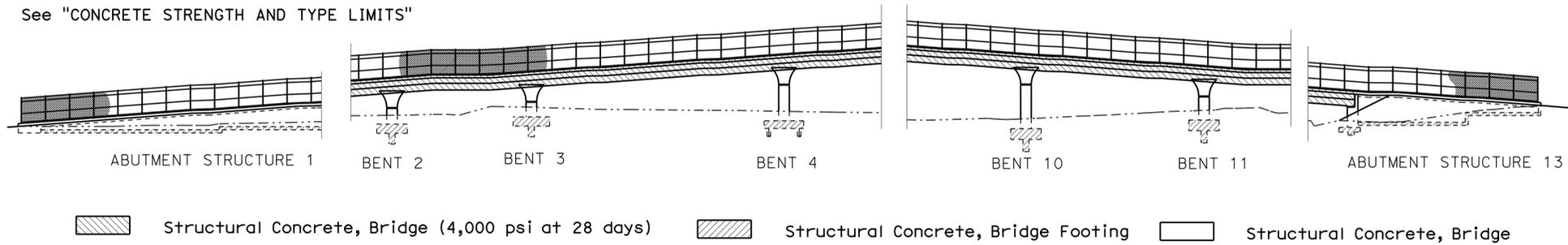
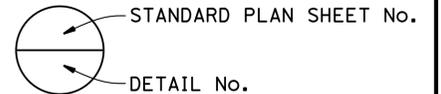
PILE DATA TABLE

| Support Location | Pile Type | Nominal Resistance (kips) | | Design Tip Elevation | Specified Tip Elevation | Nominal Driving Resistance (KIPS) |
|------------------|-------------------|---------------------------|---------|----------------------|-------------------------|-----------------------------------|
| | | Compression | Tension | | | |
| Bent 4 | Class 200 A1+ "W" | 340 | 170 | 514 (a) 523 (b) | 514 | 340 |
| Bent 6 | Class 200 A1+ "W" | 200 | 110 | 524 (a) 529 (b) | 524 | 200 |
| Bent 7 | Class 200 A1+ "W" | 310 | 140 | 522 (a) 534 (b) | 522 | 310 |
| Bent 9 | Class 200 A1+ "W" | 320 | 170 | 521 (a) 529 (b) | 521 | 320 |
| Bent 12 | Class 200 A1+ "W" | 330 | 200 | 520 (a) 524 (b) | 520 | 330 |

Note: Design tip elevations for Bents are controlled by: (a) Compression (b) Tension

STANDARD PLANS DATED MAY 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- RSP A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACFILL - BRIDGE
- B0-1 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B2-8 PILE DETAILS-CLASS 200
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B7-1 BOX GIRDER DETAILS
- B7-5 DECK DRAIN
- B7-8 DECK DRAINAGE DETAILS
- B7-10 UTILITY OPENING BOX GIRDER
- B14-3 COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 4")
- ES-6A ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 AND 21)
- ES-6B ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 AND 21, BARRIER RAIL MOUNTED DETAILS)
- ES-7M ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARDS - DETAILS NO. 1)
- ES-9A ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)
- ES-9B ELECTRICAL SYSTEMS (CONDUIT RISER AND EXPANSION FITTING, STRUCTURE INSTALLATIONS)
- ES-9C ELECTRICAL SYSTEMS (STRUCTURE PULL BOX)
- ES-9D ELECTRICAL SYSTEMS (STRUCTURE PULL BOX INSTALLATIONS)



CONCRETE STRENGTH AND TYPE LIMITS

No Scale

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

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC INDEX TO PLANS



NOTES:

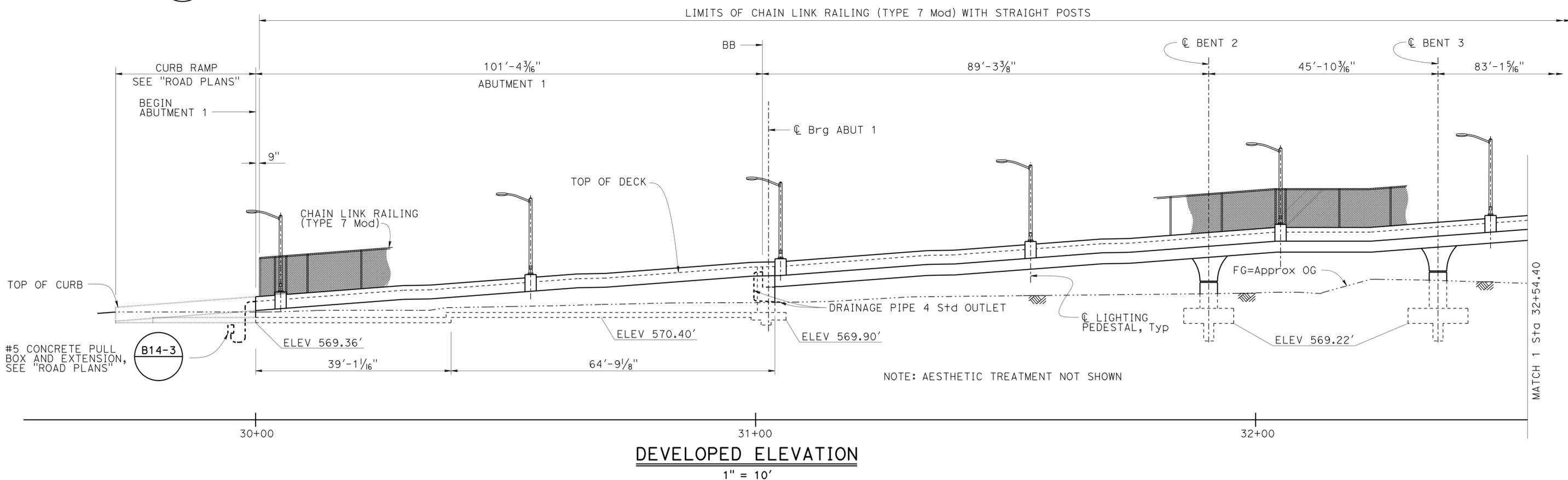
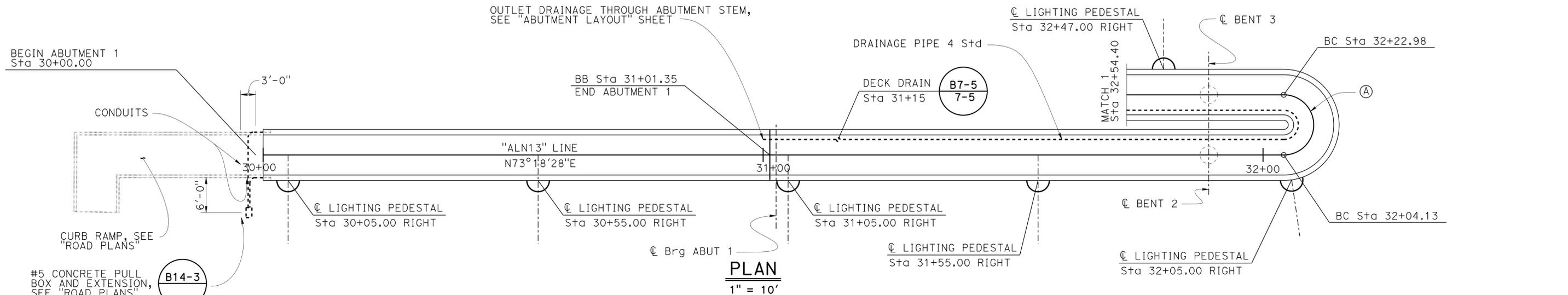
1. For clarity, not all railing details are shown.
2. For column architectural details, see "BENT DETAILS NO. 11" sheet.
3. For lighting pedestal details, see "LIGHTING PEDESTAL DETAILS" sheet.
4. For abutment architectural details, see "ABUTMENT LAYOUT" and "ABUTMENT DETAILS" sheets.

CURVE DATA

| NO. | R | Δ | T | L |
|-----|-------|--------------|-------|--------|
| (A) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (B) | 6.00' | 88°49'4.83" | 5.88' | 9.30' |
| (C) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |
| (D) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (E) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 58 | 95 |

REGISTERED CIVIL ENGINEER DATE 4-14-14
 5-12-14
 PLANS APPROVAL DATE
 DON NGUYEN-TAN
 No. C57510
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA
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| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
STRUCTURE PLAN NO. 1

CURVE DATA

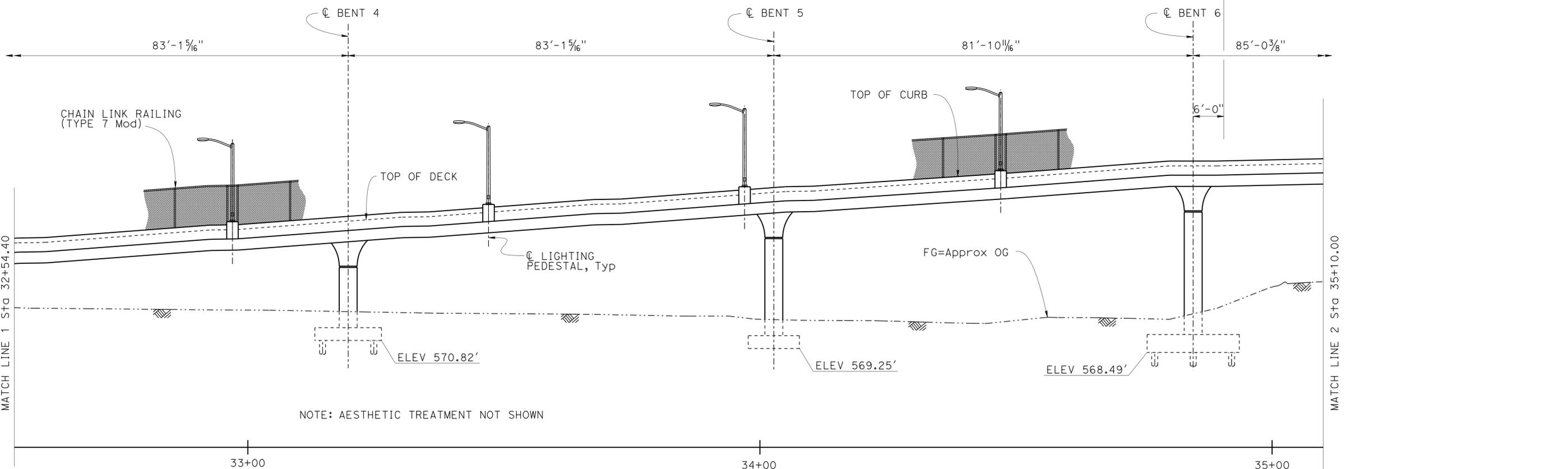
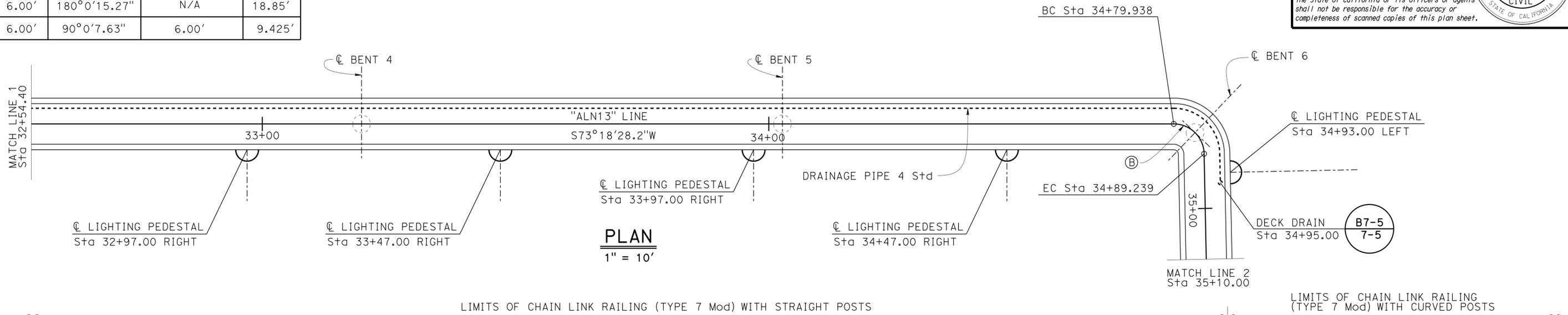
| NO. | R | Δ | T | L |
|-----|-------|--------------|-------|--------|
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NOTES:

1. For clarity, not all railing details are shown.
2. For column architectural details, see "BENT DETAILS NO. 11" sheet.
3. For lighting pedestal details, see "LIGHTING PEDESTAL DETAILS" sheet.
4. For abutment architectural details, see "ABUTMENT LAYOUT" and "ABUTMENT DETAILS" sheets.

| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 59 | 95 |

REGISTERED CIVIL ENGINEER *Don Nguyen-Tan* DATE 4-14-14
 PLANS APPROVAL DATE 5-12-14
 No. C57510 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA
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DEVELOPED ELEVATION
1" = 10'

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

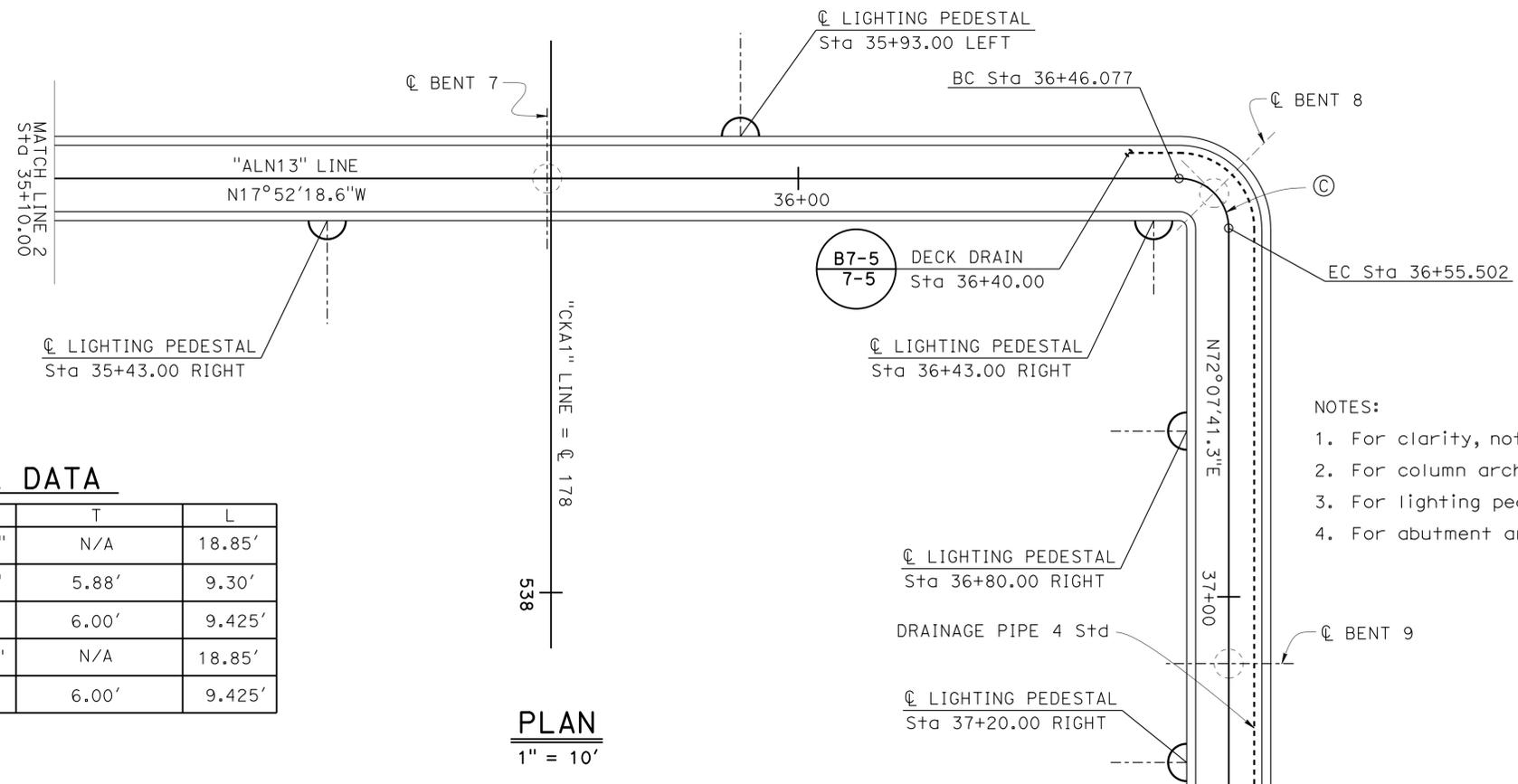
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

**SUNNY LANE POC
STRUCTURE PLAN NO. 2**



| | | |
|-------------------------|-------|----|
| REVISION DATES | SHEET | OF |
| 3-12-14 3-27-14 3-28-14 | 5 | 41 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|---|--------|-------|--------------------------|---------------------|--------------|
| 06 | Ker | 178 | R4.4 | 60 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | PLANS APPROVAL DATE | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C57510 Exp. 12-31-15 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. | | | | | |



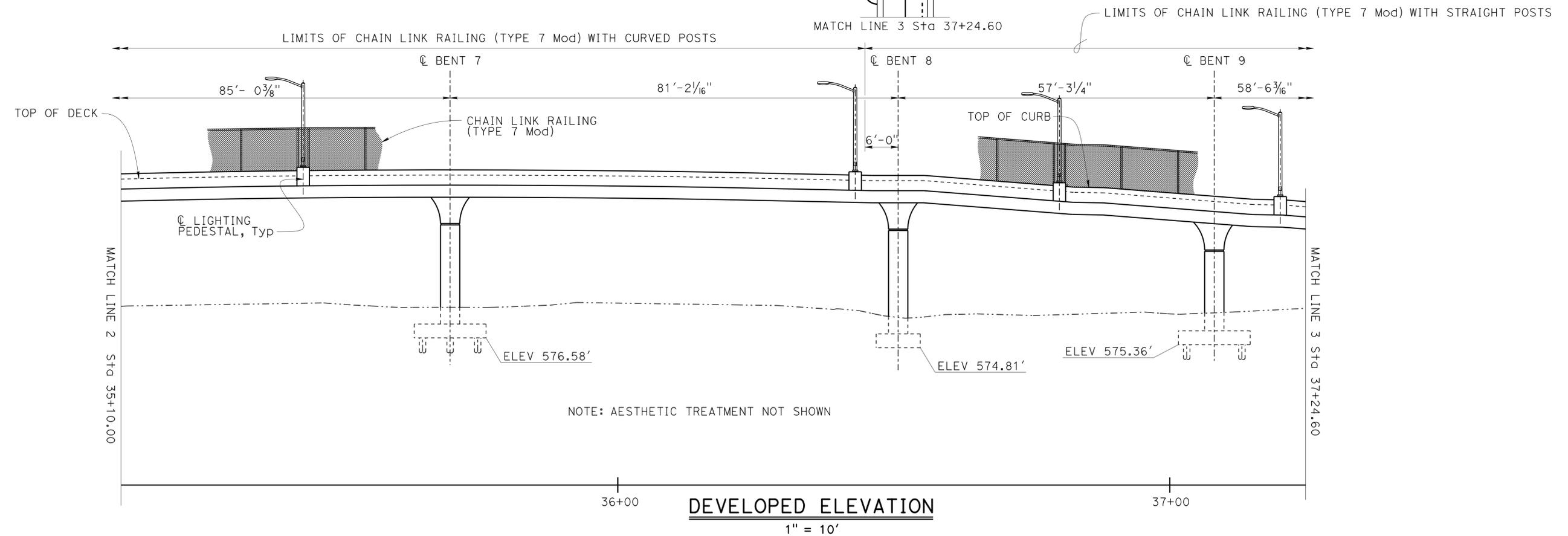
CURVE DATA

| NO. | R | Δ | T | L |
|-----|-------|--------------|-------|--------|
| (A) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (B) | 6.00' | 88°49'4.83" | 5.88' | 9.30' |
| (C) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |
| (D) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (E) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |

PLAN
1" = 10'

NOTES:

1. For clarity, not all railing details are shown.
2. For column architectural details, see "BENT DETAILS NO. 11" sheet.
3. For lighting pedestal details, see "LIGHTING PEDESTAL DETAILS" sheet.
4. For abutment architectural details, see "ABUTMENT LAYOUT" and "ABUTMENT DETAILS" sheets.



DEVELOPED ELEVATION
1" = 10'

NOTE: AESTHETIC TREATMENT NOT SHOWN

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

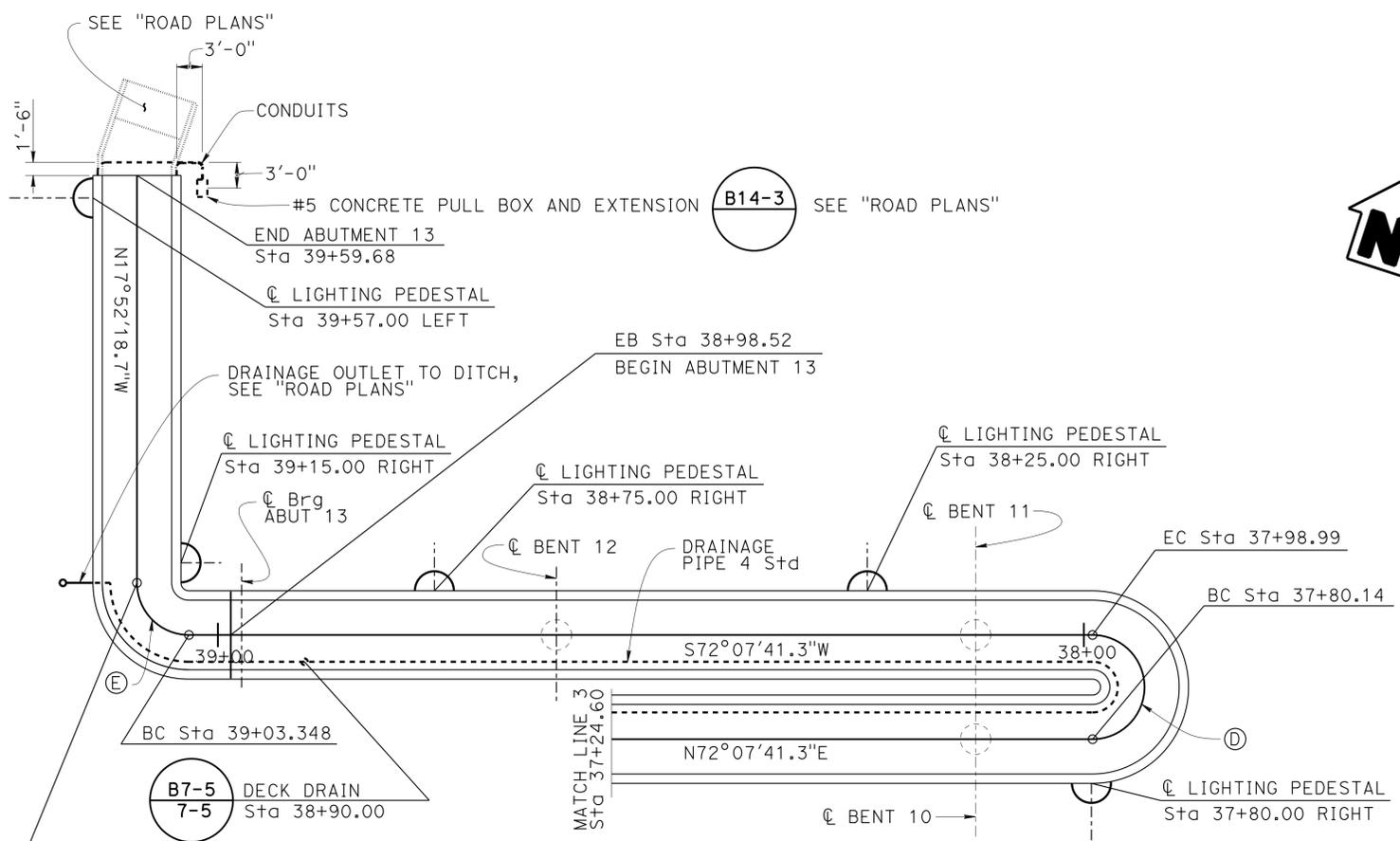
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

**SUNNY LANE POC
STRUCTURE PLAN NO. 3**

| | | | | | |
|--|--------|-------|----------------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 61 | 95 |
| | | | DATE | | |
| | | | 4-14-14 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | PLANS APPROVAL DATE | | |
| | | | 5-12-14 | | |
| | | | REGISTERED PROFESSIONAL ENGINEER | | |
| | | | DON NGUYEN-TAN | | |
| | | | No. C57510 | | |
| | | | Exp. 12-31-15 | | |
| | | | CIVIL | | |
| <small>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.</small> | | | | | |

CURVE DATA

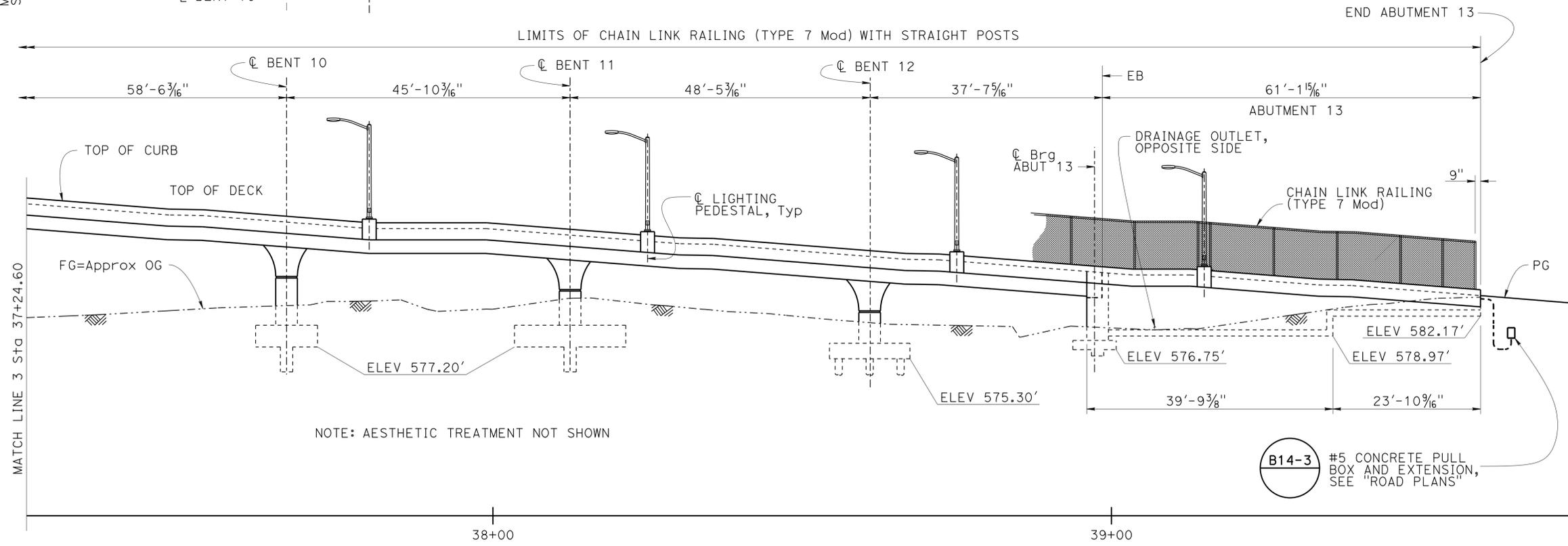
| NO. | R | Δ | T | L |
|-----|-------|--------------|-------|--------|
| (A) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (B) | 6.00' | 88°49'4.83" | 5.88' | 9.30' |
| (C) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |
| (D) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (E) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |



NOTES:

- For clarity, not all railing details are shown.
- For column architectural details, see "BENT DETAILS NO. 11" sheet.
- For lighting pedestal details, see "LIGHTING PEDESTAL DETAILS" sheet.
- For abutment architectural details, see "ABUTMENT LAYOUT" and "ABUTMENT DETAILS" sheets.

PLAN
1" = 10'



NOTE: AESTHETIC TREATMENT NOT SHOWN

B14-3 #5 CONCRETE PULL BOX AND EXTENSION, SEE "ROAD PLANS"

DEVELOPED ELEVATION
1" = 10'

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

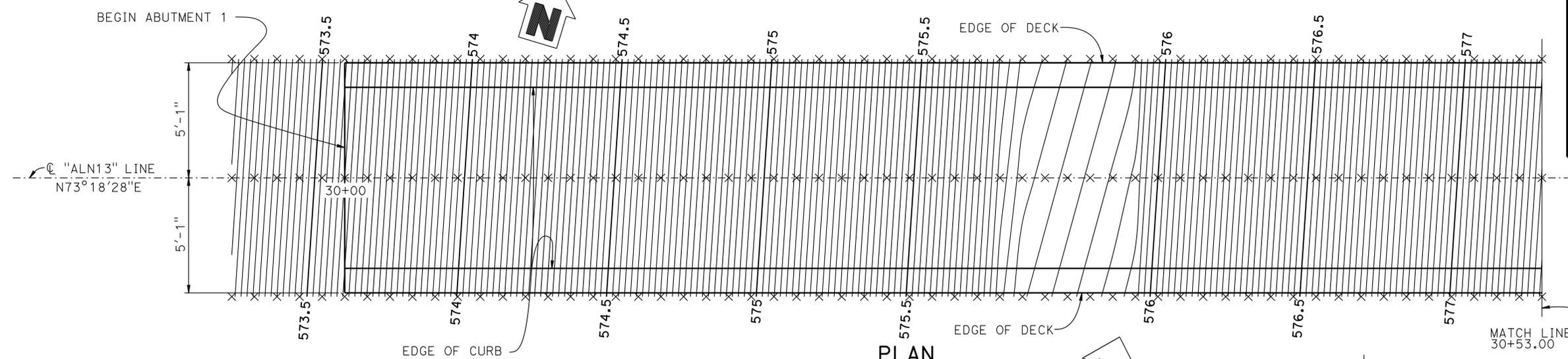
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

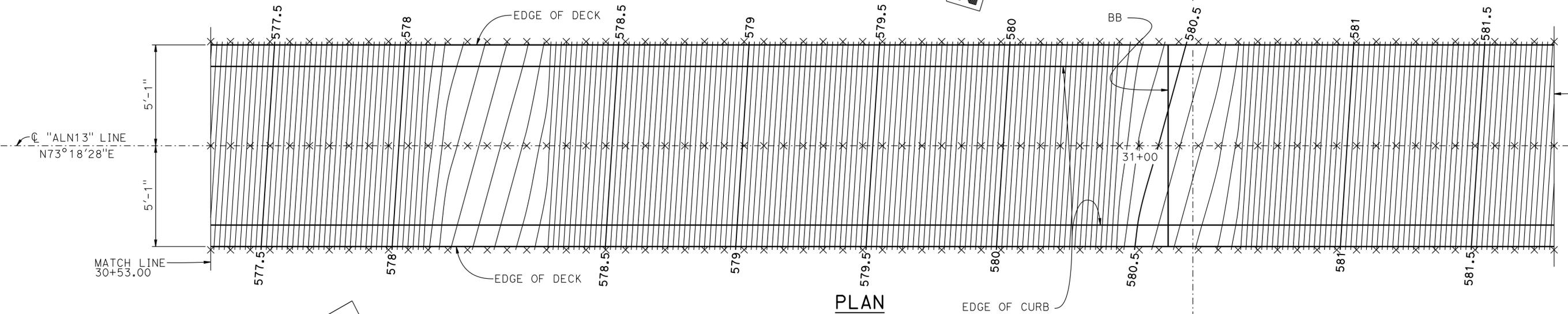
**SUNNY LANE POC
STRUCTURE PLAN NO. 4**

| | | | | | |
|---|--------|-------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 62 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | PLANS APPROVAL DATE | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C 57510 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA | | | | | |

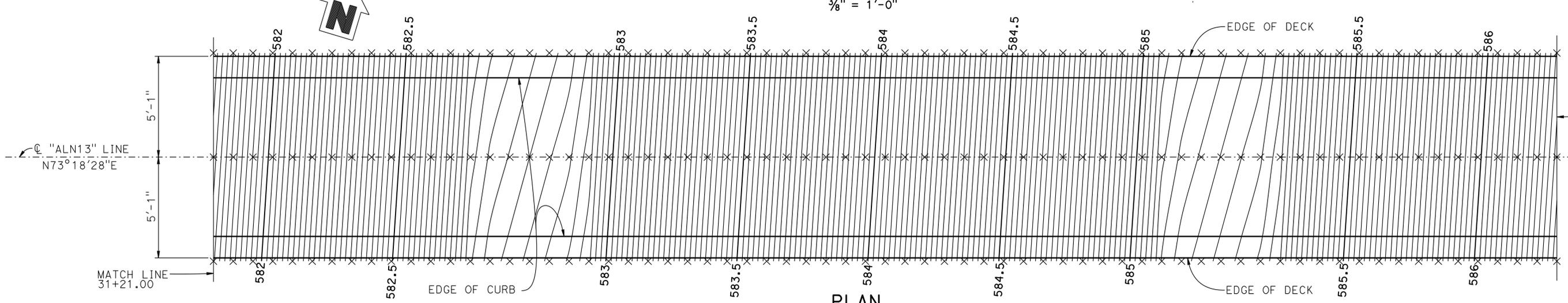


PLAN
3/8" = 1'-0"

- NOTES:
- 0.02' Contour Interval.
X - 1.0' Station Interval.
Contours do not include camber.
 - Deck contours extended past exterior edge of curb. Determine curb contour by adding curb height to deck contour. See "CURB HEIGHT" on "DECK CONTOUR NO. 2" sheet.



PLAN
3/8" = 1'-0"



PLAN
3/8" = 1'-0"

NOTE:
For Match Line, see "DECK CONTOURS NO.2" sheet.

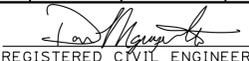
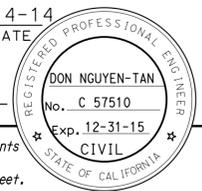
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY DAVID ALVAREZ | CHECKED HILARIO TUAZON |
| DETAILS | BY DAVID PATO | CHECKED HILARIO TUAZON |
| QUANTITIES | BY HILARIO TUAZON | CHECKED RACHEL WASHINGTON |

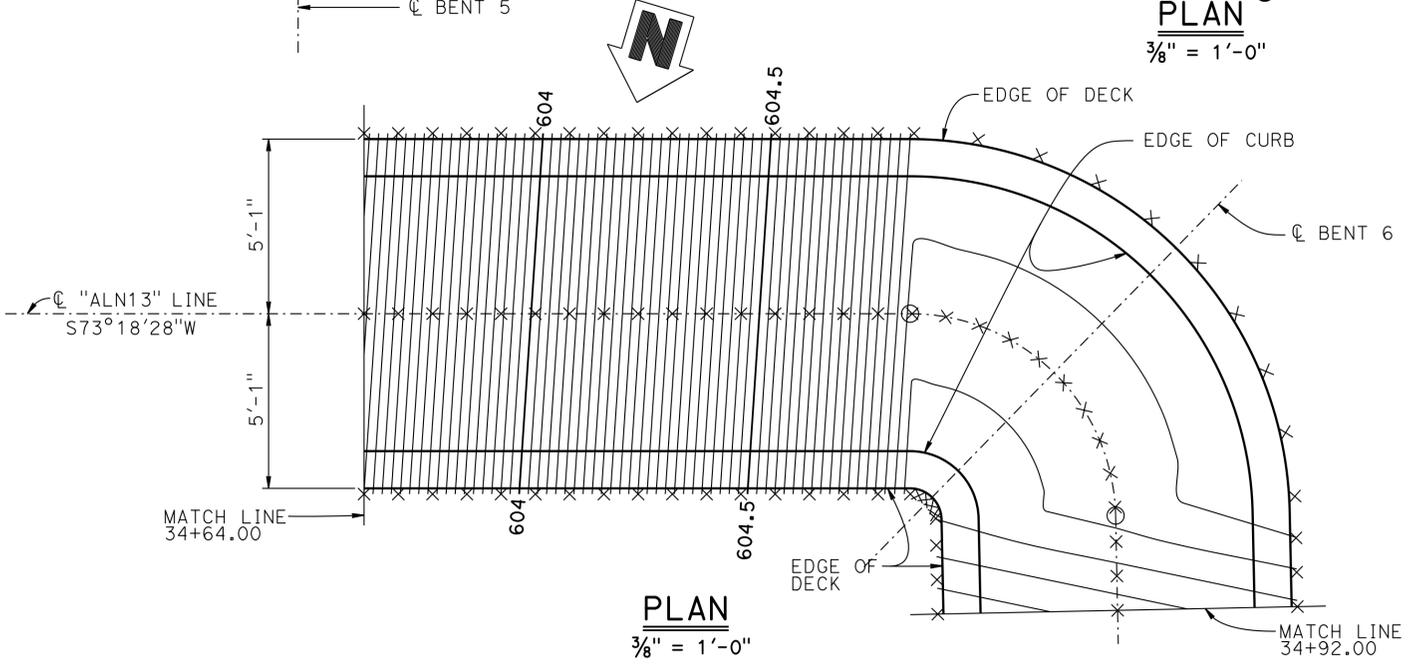
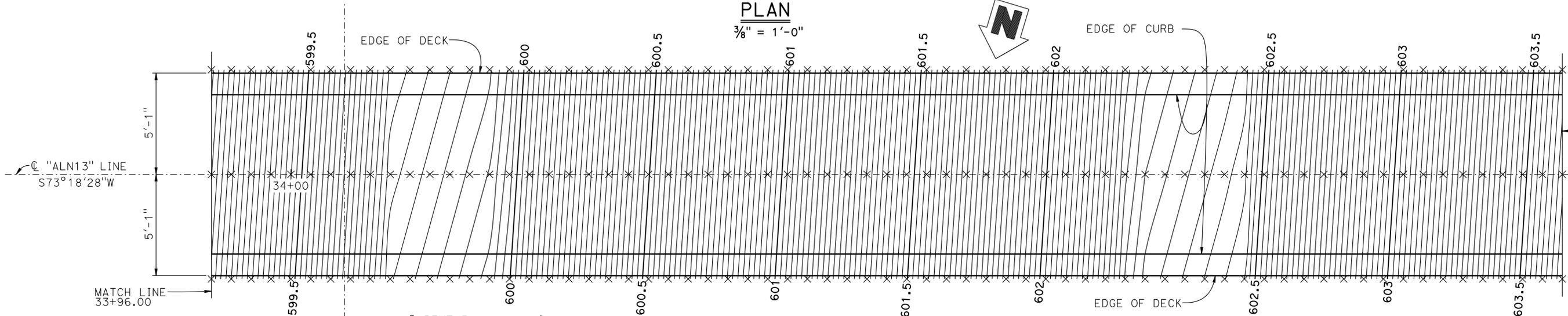
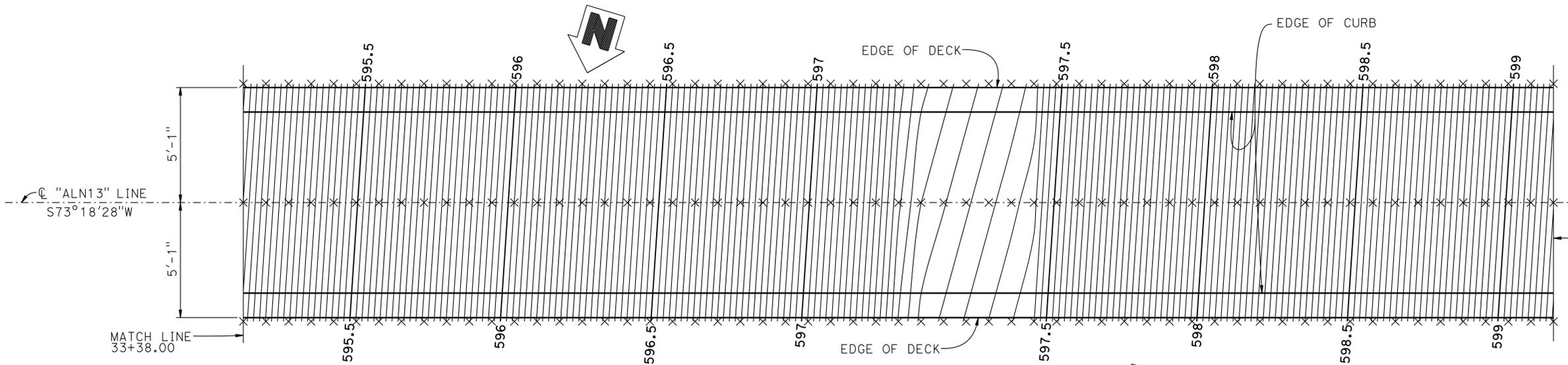
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | 4.35 |

SUNNY LANE POC
DECK CONTOURS NO. 1

| | | | | | |
|--|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 64 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 4-14-14 | DATE | |
| 5-12-14 PLANS APPROVAL DATE | | |  | | |
| <small>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.</small> | | | | | |



NOTES:

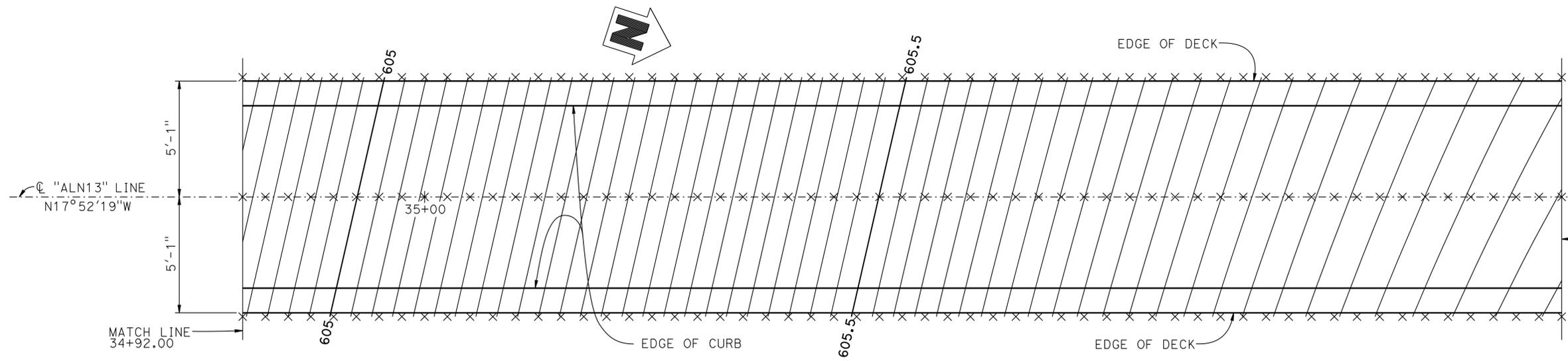
- 0.02' Contour Interval.
X - 1.0' Station Interval.
Contours do not include camber.
- Deck contours extended past exterior edge of curb. Determine curb contour by adding curb height to deck contour. See "CURB HEIGHT" on "DECK CONTOUR NO. 2" sheet.

NOTE:

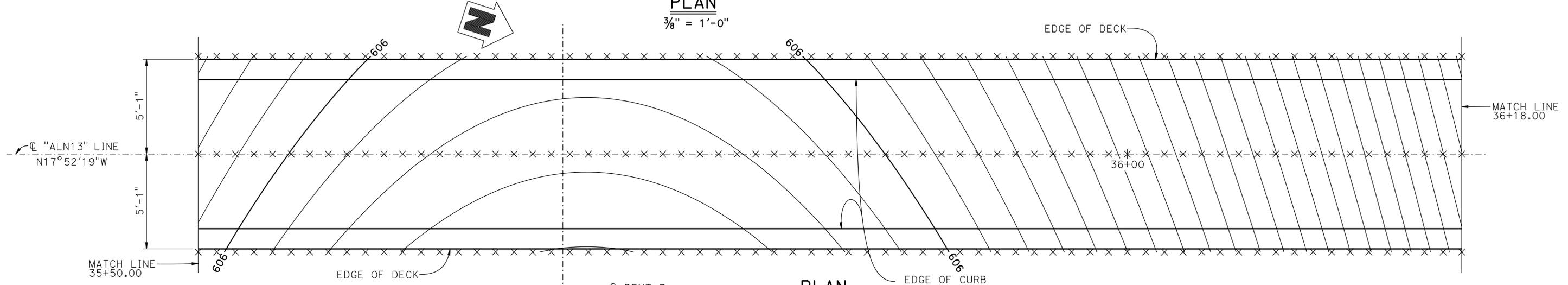
For Match Line, see "DECK CONTOURS NO.2" and "DECK CONTOURS NO.4" sheets.

| | | | | | | | | | |
|--|------------|-------------------|---------------------------|--|--|---|----------------------------|--|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | DESIGN | BY DAVID ALVAREZ | CHECKED HILARIO TUAZON | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. | SUNNY LANE POC | | |
| | DETAILS | BY DAVID PATO | CHECKED HILARIO TUAZON | | | 50-0517 | DECK CONTOURS NO. 3 | | |
| | QUANTITIES | BY HILARIO TUAZON | CHECKED RACHEL WASHINGTON | | | POST MILE | 4.35 | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | UNIT: 3591 PROJECT NUMBER & PHASE: 0614000265-1 | CONTRACT NO.: 06-0H6414 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | | REVISION DATES 11-08-13 11-14-14 03-13-14 | SHEET 10 OF 41 |

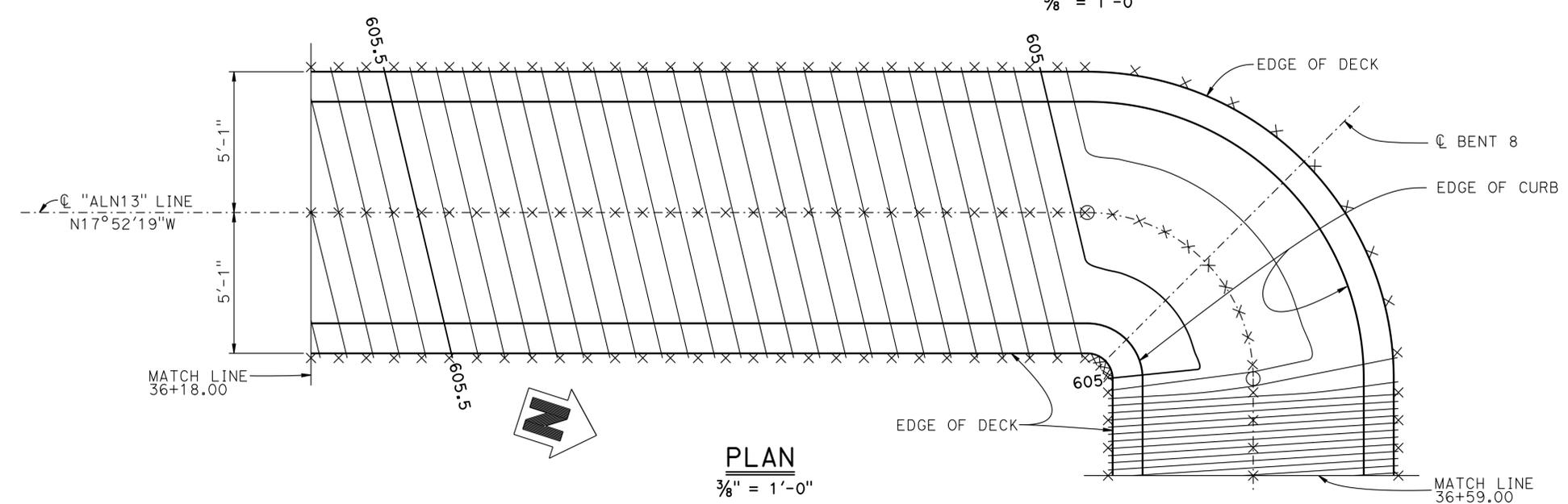
| | | | | | |
|---|--------|-------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 65 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | PLANS APPROVAL DATE | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C 57510 Exp. 12-31-15 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. | | | | | |



PLAN
3/8" = 1'-0"



PLAN
3/8" = 1'-0"



PLAN
3/8" = 1'-0"

- NOTES:
- 0.02' Contour Interval.
X - 1.0' Station Interval.
Contours do not include camber.
 - Deck contours extended past exterior edge of curb. Determine curb contour by adding curb height to deck contour. See "CURB HEIGHT" on "DECK CONTOUR NO. 2" sheet.
- NOTE:
For Match Line, see "DECK CONTOURS NO.3" and "DECK CONTOURS NO.5" sheets.

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY DAVID ALVAREZ | CHECKED HILARIO TUAZON |
| DETAILS | BY DAVID PATO | CHECKED HILARIO TUAZON |
| QUANTITIES | BY HILARIO TUAZON | CHECKED RACHEL WASHINGTON |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

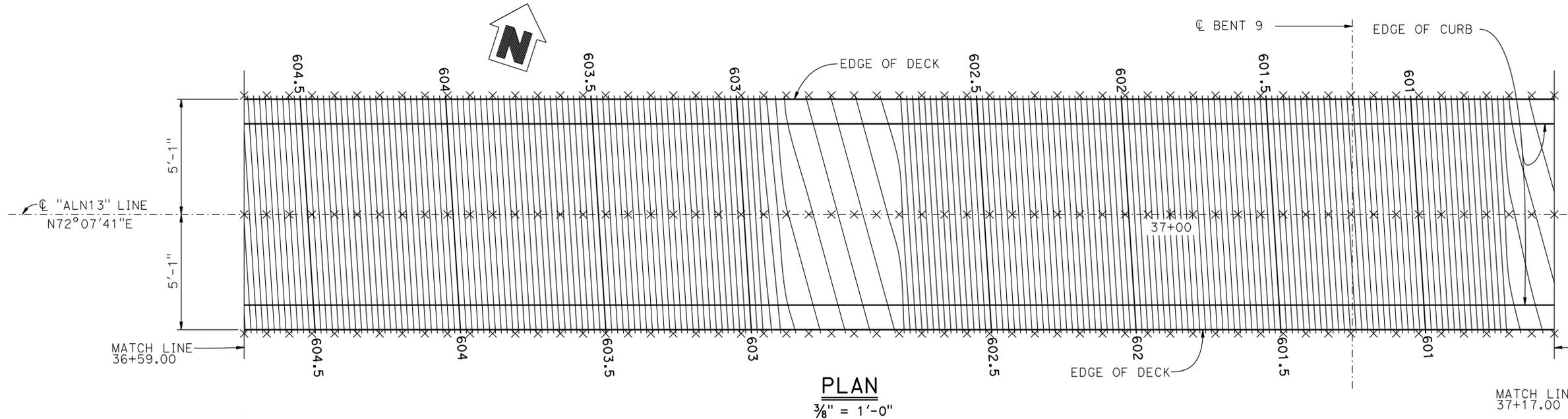
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | 4.35 |

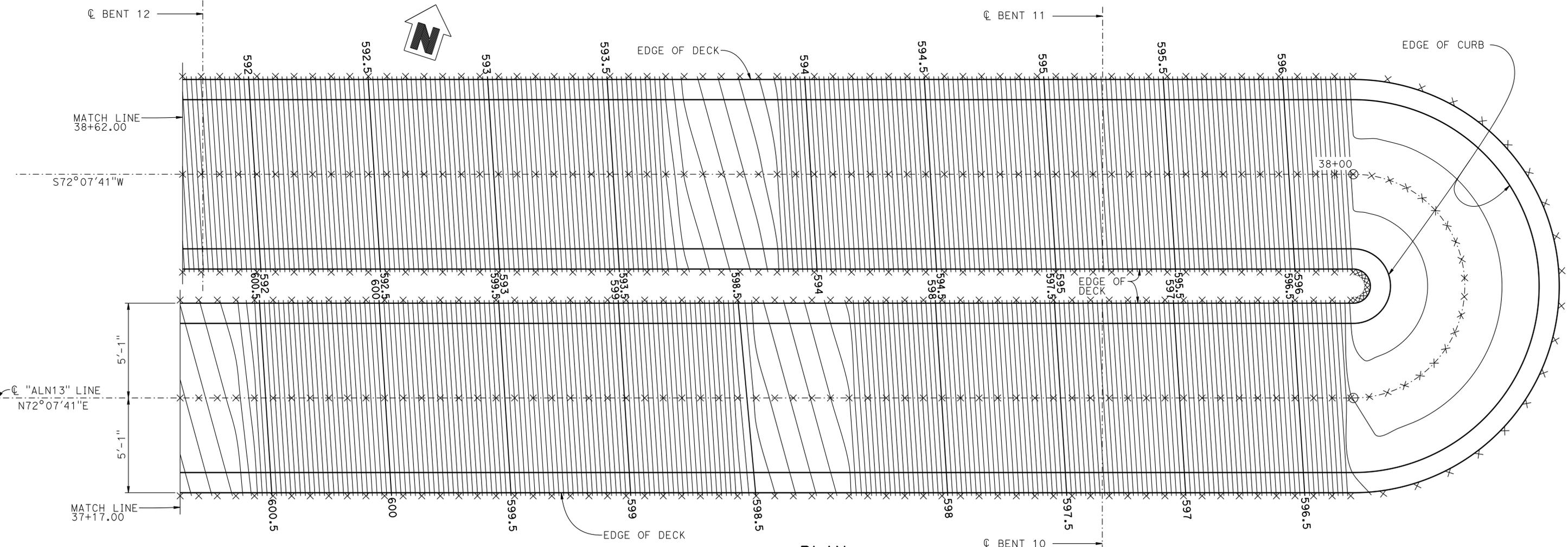
**SUNNY LANE POC
DECK CONTOURS NO. 4**

| | | | | | |
|---|--------|-------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 66 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | PLANS APPROVAL DATE | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C 57510 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA | | | | | |

- NOTES:
- 0.02' Contour Interval.
X - 1.0' Station Interval.
Contours do not include camber.
 - Deck contours extended past exterior edge of curb. Determine curb contour by adding curb height to deck contour. See "CURB HEIGHT" on "DECK CONTOUR NO. 2" sheet.



PLAN
3/8" = 1'-0"



PLAN
3/8" = 1'-0"

NOTE:
For Match Line, see "DECK CONTOURS NO.4"
and "DECK CONTOURS NO.6" sheets.

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY DAVID ALVAREZ | CHECKED HILARIO TUAZON |
| DETAILS | BY DAVID PATO | CHECKED HILARIO TUAZON |
| QUANTITIES | BY HILARIO TUAZON | CHECKED RACHEL WASHINGTON |

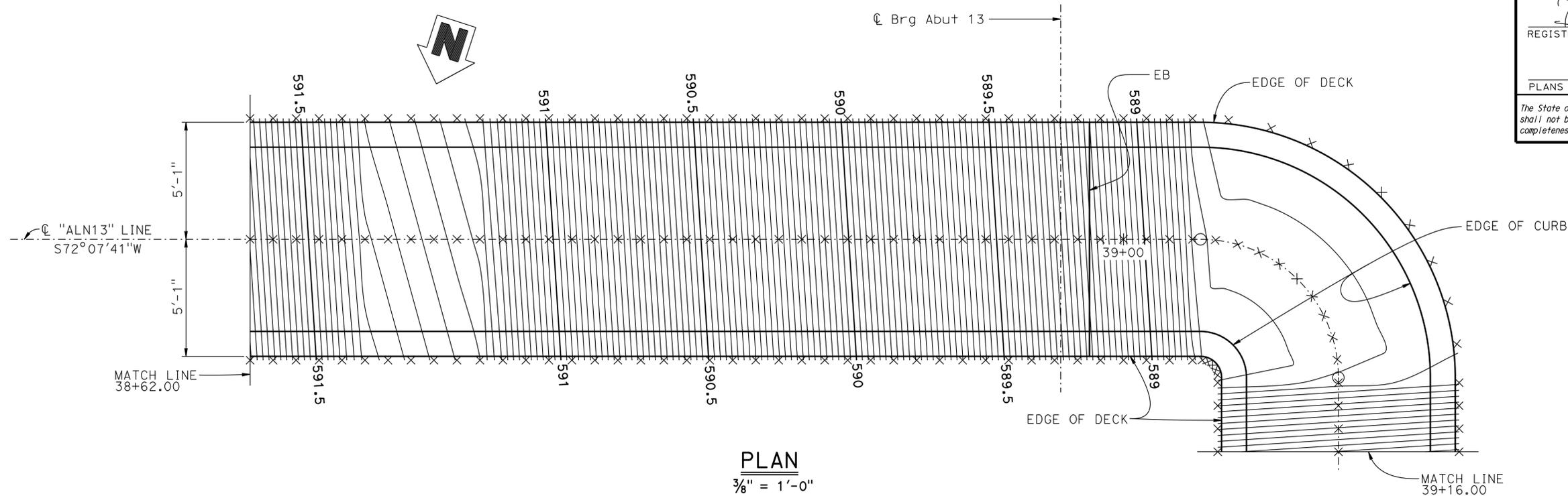
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

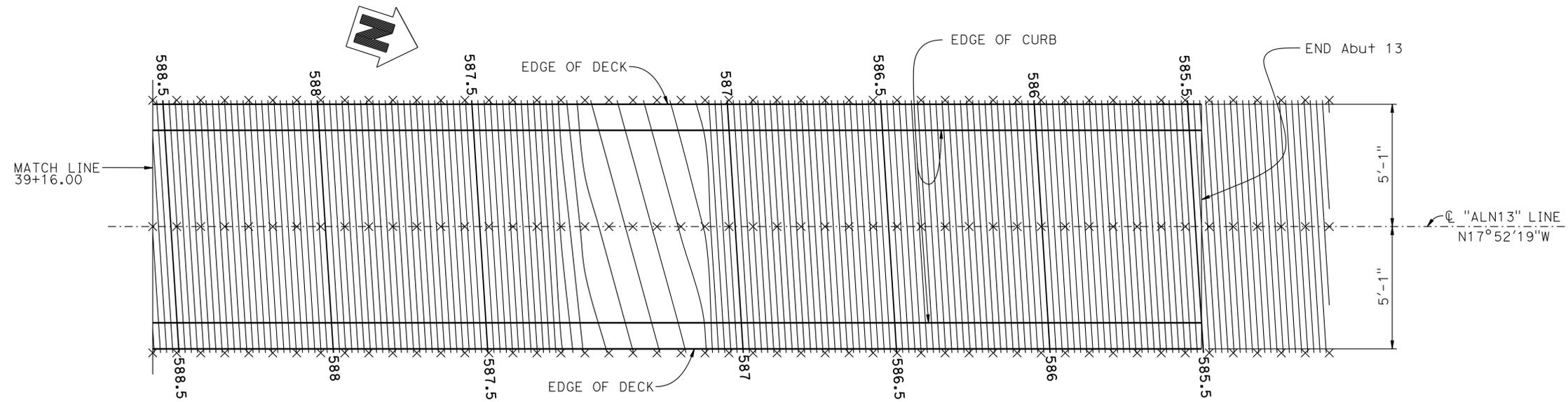
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | 4.35 |

SUNNY LANE POC
DECK CONTOURS NO. 5

| | | | | | |
|---|--------|-------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 67 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | PLANS APPROVAL DATE | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C 57510 Exp. 12-31-15 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. | | | | | |



PLAN
3/8" = 1'-0"



PLAN
3/8" = 1'-0"

NOTES:

- 0.02' Contour Interval.
X - 1.0' Station Interval.
Contours do not include camber.
- Deck contours extended past exterior edge of curb. Determine curb contour by adding curb height to deck contour. See "CURB HEIGHT" on "DECK CONTOUR NO. 2" sheet.

NOTE:
For Match Line, see "DECK CONTOURS NO.5" sheet.

| | | |
|------------|-------------------|------------------------|
| DESIGN | BY DAVID ALVAREZ | CHECKED HILARIO TUAZON |
| DETAILS | BY DAVID PATO | CHECKED HILARIO TUAZON |
| QUANTITIES | BY HILARIO TUAZON | CHECKED R. WASHINGTON |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | 4.35 |

SUNNY LANE POC
DECK CONTOURS NO. 6

CURVE DATA

| No. | R | Δ | T | L |
|-----|---------|--------------|---------|---------|
| (A) | 650.05' | 21°07'08" | 121.18' | 239.61' |
| (B) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (C) | 6.00' | 88°49'4.83" | 5.88' | 9.30' |
| (D) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |
| (E) | 6.00' | 180°0'15.27" | N/A | 18.85' |
| (F) | 6.00' | 90°0'7.63" | 6.00' | 9.425' |

SUHV211 (AJ00211)
N 2,331,018.04
E 6,271,985.21
Elev=585.11

EC 39+12.77
ALN13" LINE
Sta 36+50.79
CULVERT
Dia=UNKNOWN
Elev=577.17

LEGEND:

- XXX.XX Indicates bottom of footing elevation.
- s Indicates footing pile
- Indicates existing structure
- Indicates new structure



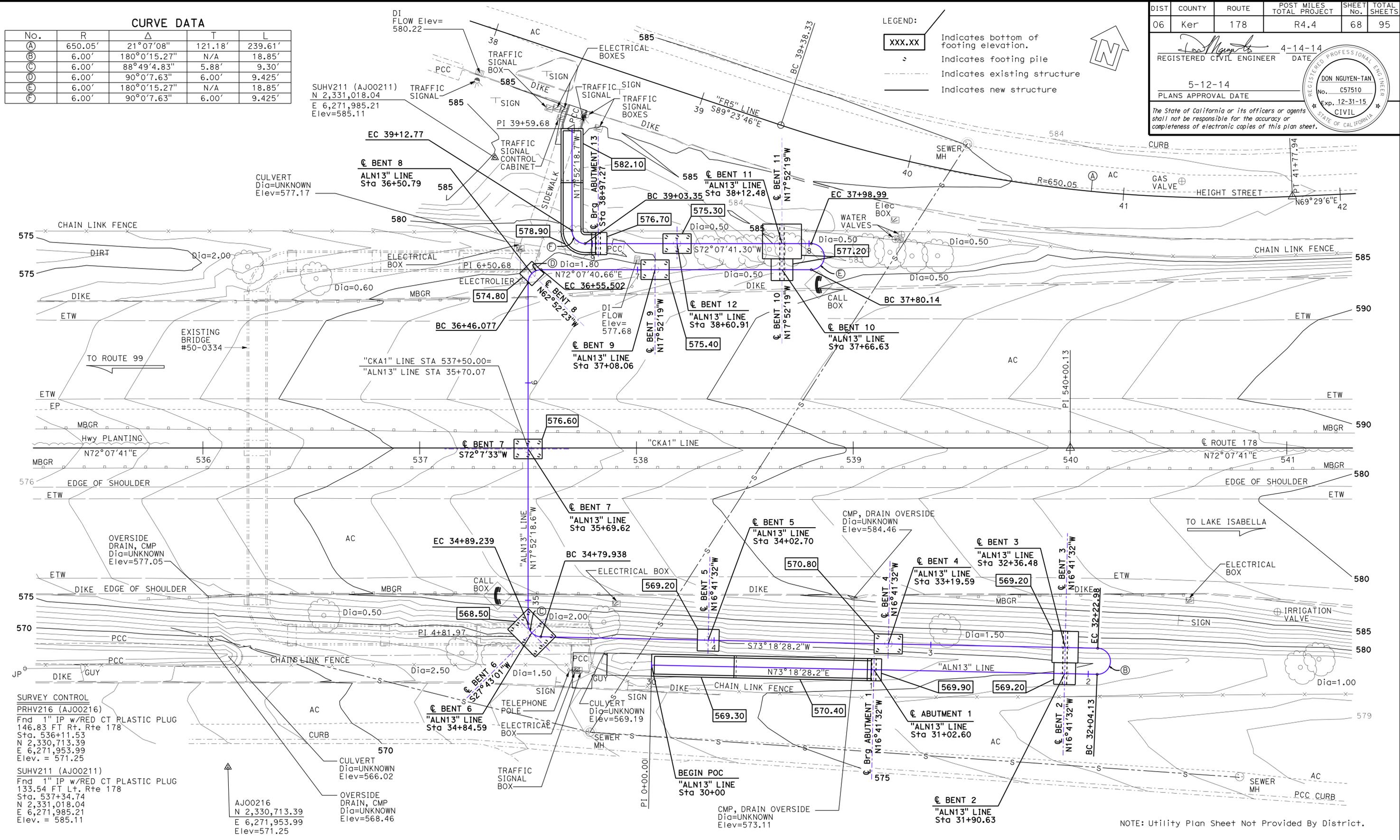
| | | | | | |
|------|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 68 | 95 |

4-14-14
REGISTERED CIVIL ENGINEER DATE

5-12-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DON NGUYEN-TAN
No. C57510
Exp. 12-31-15
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.



SURVEY CONTROL
PRHV216 (AJ00216)
Fnd 1" IP w/RED CT PLASTIC PLUG
146.83 FT Rt. Rte 178
Sta. 536+11.53
N 2,330,713.39
E 6,271,953.99
Elev. = 571.25

SUHV211 (AJ00211)
Fnd 1" IP w/RED CT PLASTIC PLUG
133.54 FT Lt. Rte 178
Sta. 537+34.74
N 2,331,018.04
E 6,271,985.21
Elev. = 585.11

AJ00216
N 2,330,713.39
E 6,271,953.99
Elev=571.25

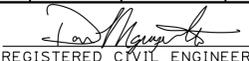
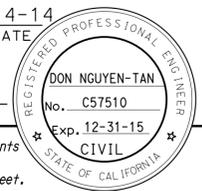
CULVERT
Dia=UNKNOWN
Elev=566.02

OVERSIDE DRAIN, CMP
Dia=UNKNOWN
Elev=568.46

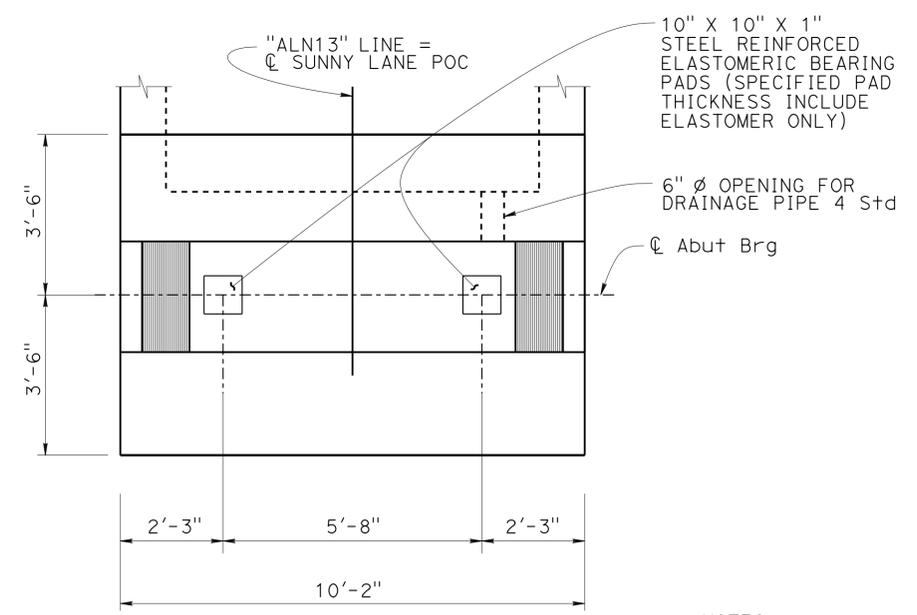
NOTE: Utility Plan Sheet Not Provided By District.

| | | | | | | | | | |
|--|---------------------------|-------------------------------|-------------------------------|------------------------------|------------------------|---|-------------------------|---|----------------|
| PRELIMINARY INVESTIGATION SECTION | | | | DESIGN BY David Alvarez | CHECKED Hilario Tuazon | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. 50-0517 | SUNNY LANE POC FOUNDATION PLAN | |
| SCALE VERT. DATUM NAVD88 | PHOTOGRAMMETRY AS OF: X | DRAFTED BY T. ZOLNIKOV | CHECKED Hilario Tuazon | POST MILE R4.40 | | | | | |
| 1"=20' | HORIZ. DATUM NAD83 (2007) | SURVEYED BY DISTRICT | CHECKED Rachel Washington | | | | | | |
| ALIGNMENT TIES Dist. Traverse Sheet | | CHECKED BY C. FASSETT 11/2012 | CHECKED BY C. FASSETT 11/2012 | QUANTITIES BY Hilario Tuazon | UNIT: 3591 | PROJECT NUMBER & PHASE: 0614000265 1 | CONTRACT NO.: 06-0H6414 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | |
| STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10) | | | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | 0 1 2 3 | REVISION DATES | SHEET 14 OF 41 |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 69 | 95 |

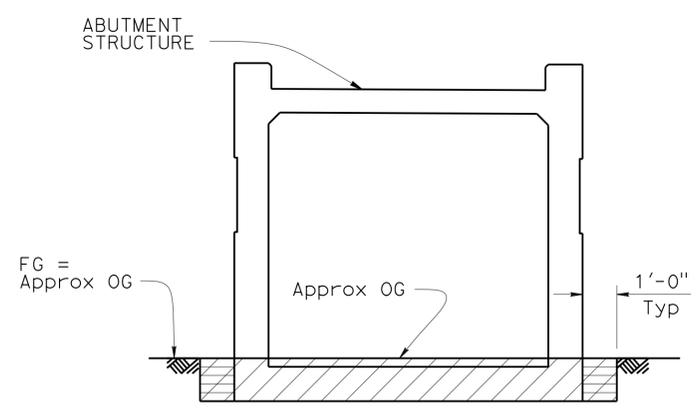
| | | |
|---|--|---|
|  REGISTERED CIVIL ENGINEER DATE 4-14-14 | |  |
| PLANS APPROVAL DATE 5-12-14 | | |

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.



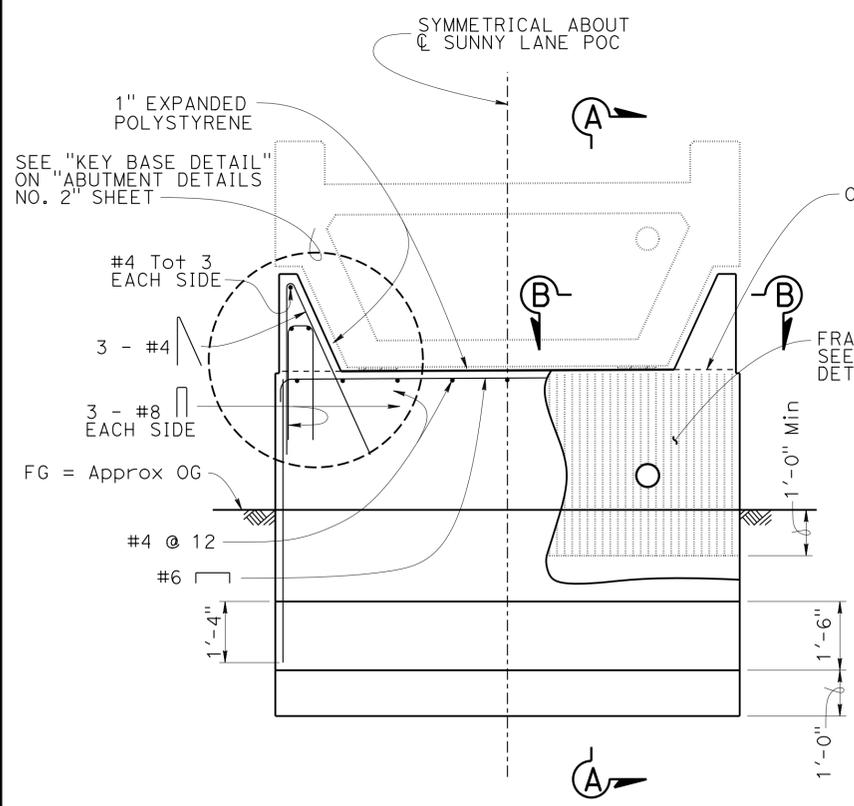
PLAN
1/2" = 1'-0"

- NOTES:
1. Abutment 1 shown, Abutment 13 similar.
 2. At Abutment 13, provide 5" diameter formed hole through abutment structure wall, see "STRUCTURE PLAN NO. 4" sheet.
 3. For Section B-B, see "ABUTMENT DETAILS NO. 2" sheet.



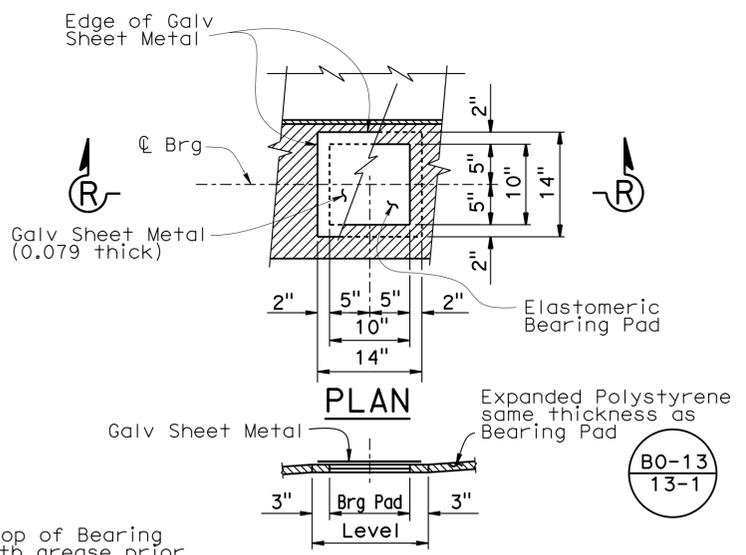
ABUTMENT STRUCTURE
LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
3/8" = 1'-0"

- LEGEND:
-  STRUCTURE EXCAVATION (BRIDGE)
 -  STRUCTURE BACKFILL (BRIDGE)



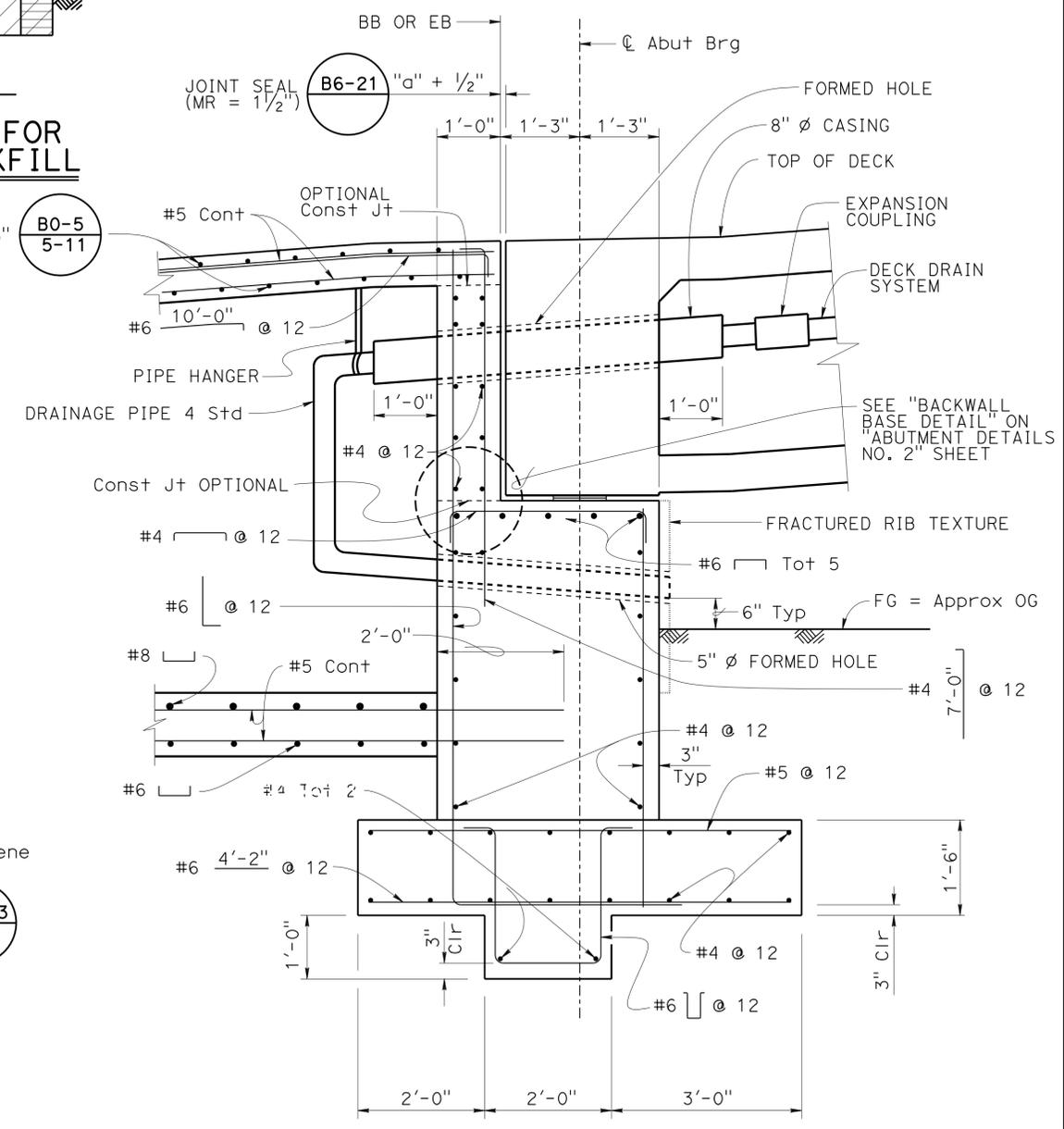
ELEVATION
1/2" = 1'-0"

NOTE: FOR Reinf NOT SHOWN, SEE SECTION A-A



SECTION R-R
BEARING PAD DETAIL
No Scale

Details typical at all bearing pads



SECTION A-A
3/4" = 1'-0"

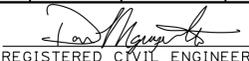
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

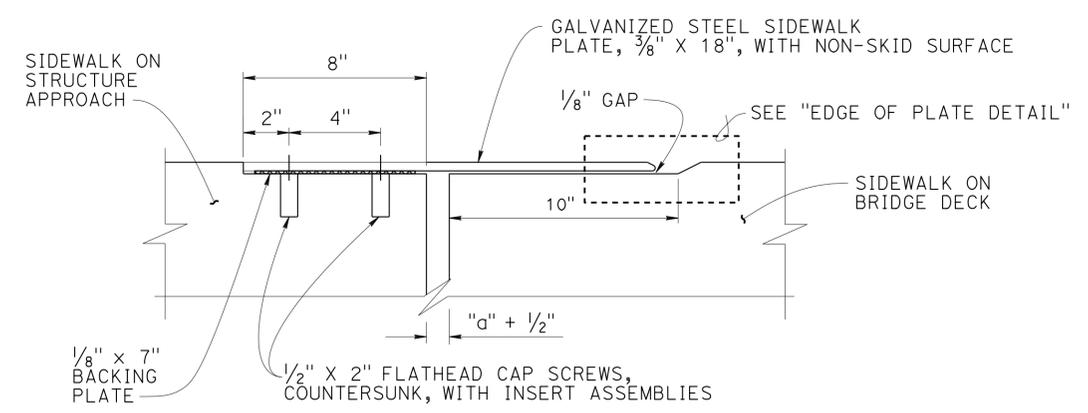
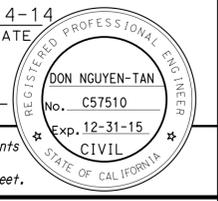
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

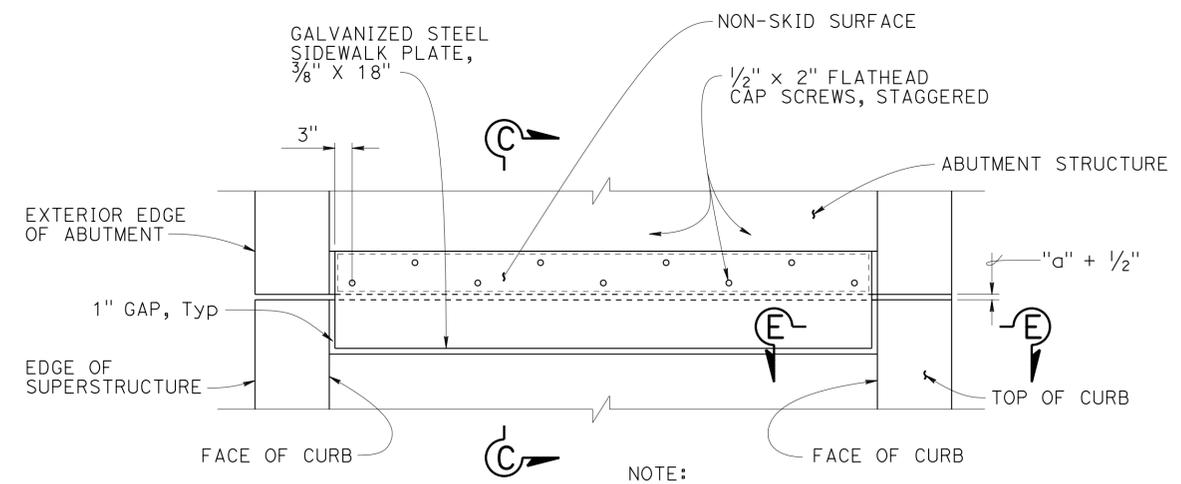
BRIDGE NO. 50-0517
POST MILE R 4.35

SUNNY LANE POC
ABUTMENT LAYOUT

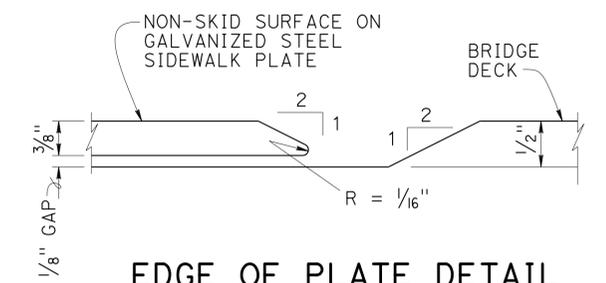
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|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 70 | 95 |
|  REGISTERED CIVIL ENGINEER | | | | 4-14-14 | DATE |
| PLANS APPROVAL DATE | | | | 5-12-14 | |
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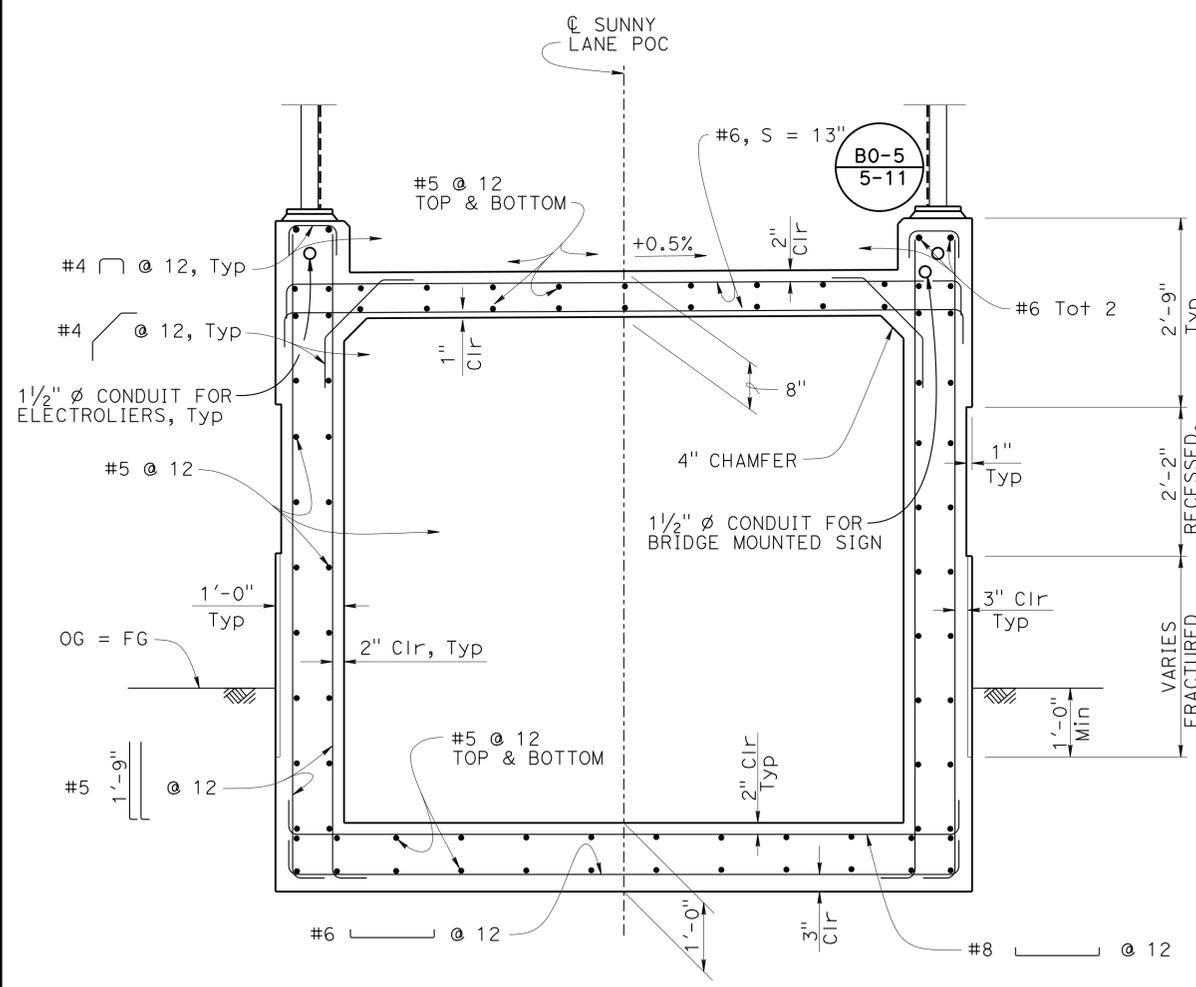
SECTION C-C
NO SCALE



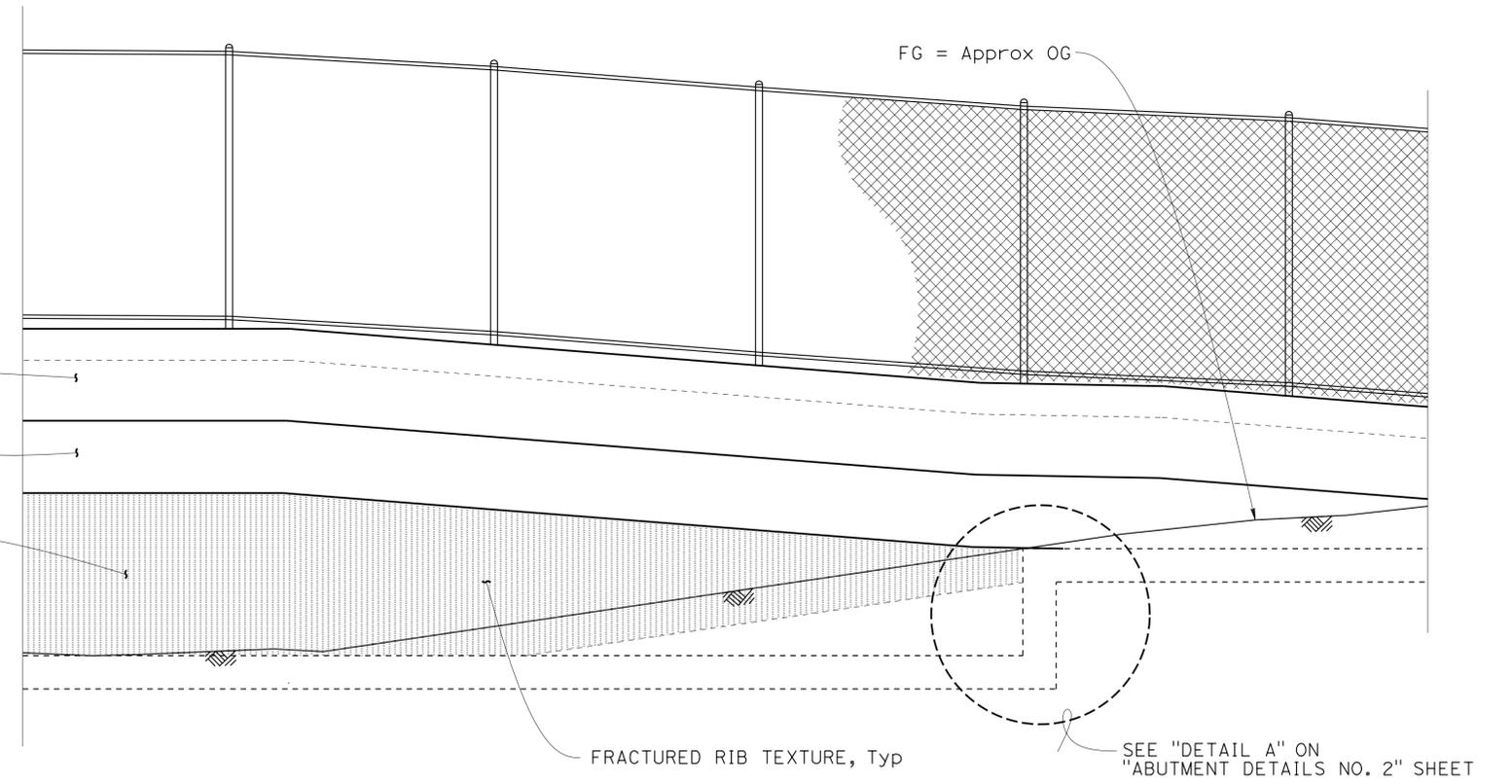
SIDEWALK EXPANSION JOINT ARMOR
NO SCALE



EDGE OF PLATE DETAIL
NO SCALE



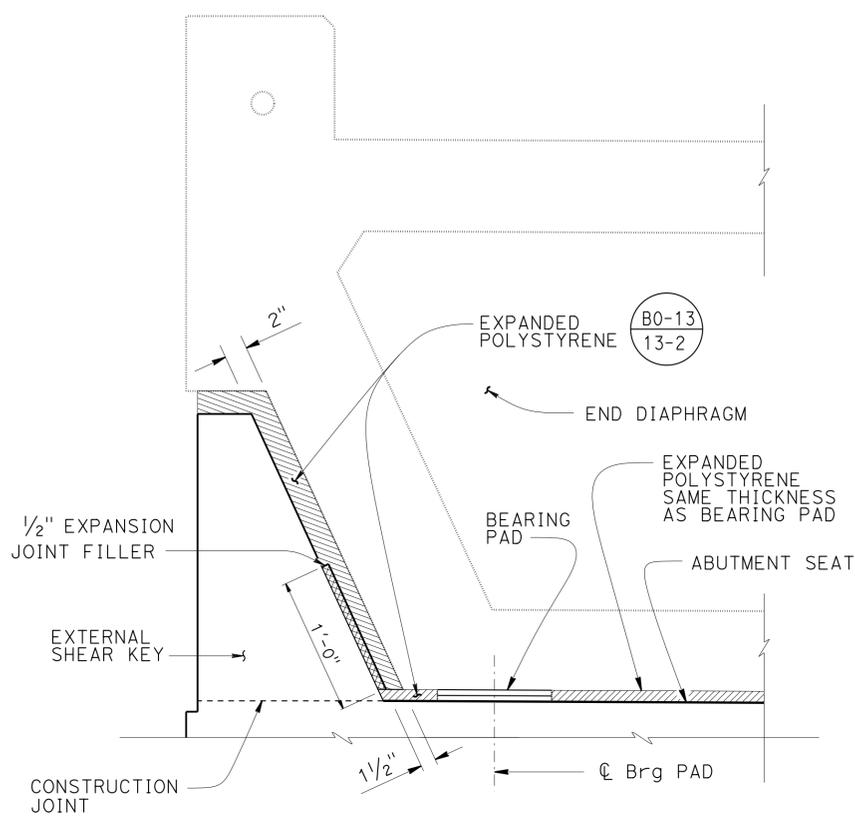
TYPICAL SECTION
3/4" = 1'-0"



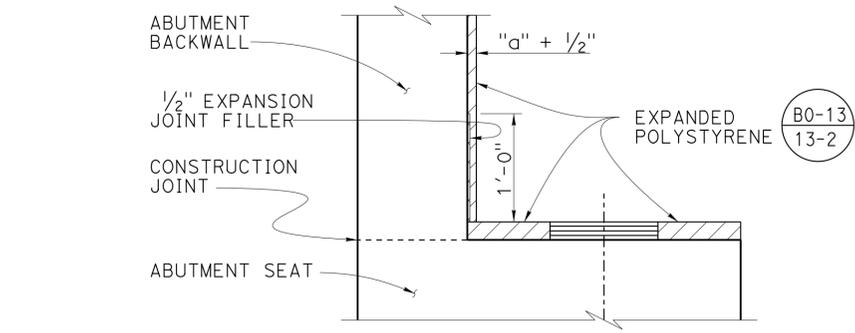
ELEVATION - FRACTURED RIB DETAILS
NO SCALE

| | | | | | | | | | |
|--|------------|-------------------|---------------------------|---|--|----------------|---------------------------|--|----|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | DESIGN | BY David Alvarez | CHECKED Hilario Tuazon | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. | 50-0517 | SUNNY LANE POC ABUTMENT DETAILS NO. 1 | |
| | DETAILS | BY David Elliott | CHECKED Hilario Tuazon | | | POST MILE | R 4.35 | | |
| | QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington | | | REVISION DATES | 4-2-14, 10-23-13, 3-13-14 | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | UNIT: 3591 PROJECT NUMBER & PHASE: 0614000265-1 CONTRACT NO.: 06-0H6414 | DISREGARD PRINTS BEARING EARLIER REVISION DATES | SHEET | 16 | OF | 41 |

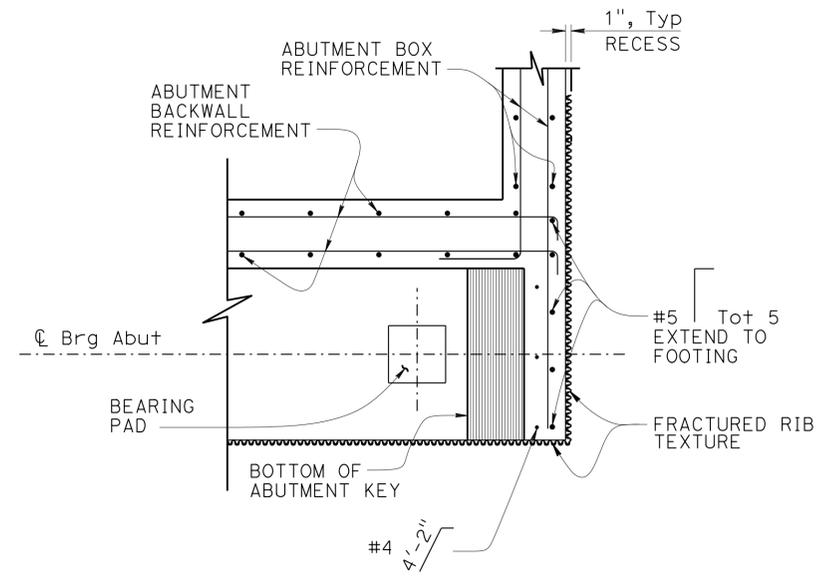
| | | | | | |
|---|--------|-------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 71 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | PLANS APPROVAL DATE | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C57510 Exp. 12-31-15 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. | | | | | |



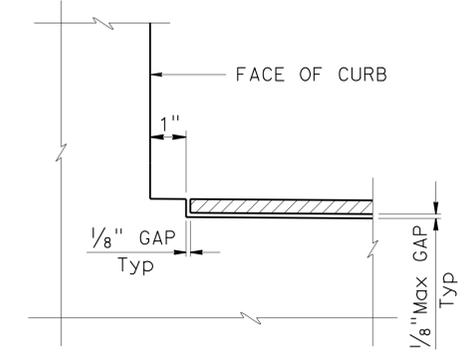
KEY BASE DETAIL
NO SCALE



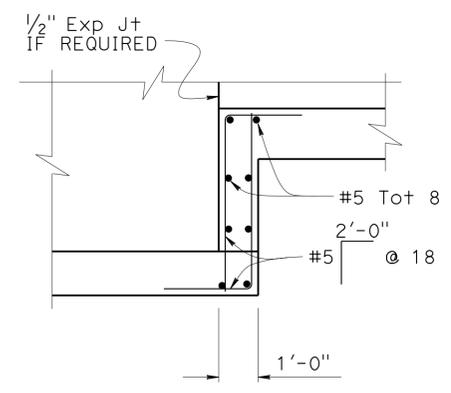
BACKWALL BASE DETAIL
NO SCALE



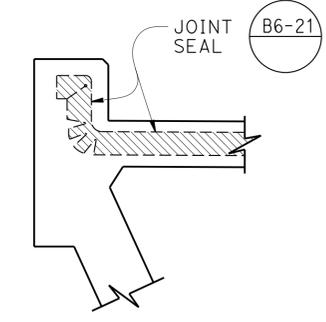
SECTION B-B
3/4" = 1'-0"



SECTION E-E
NO SCALE



DETAIL A
NO SCALE



JOINT SEALS DETAILS
NO SCALE

- NOTES:
1. For origin of Section E-E, see "ABUTMENT DETAILS NO. 1" sheet.
 2. For origin of Section B-B, see "ABUTMENT LAYOUT" sheet.

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

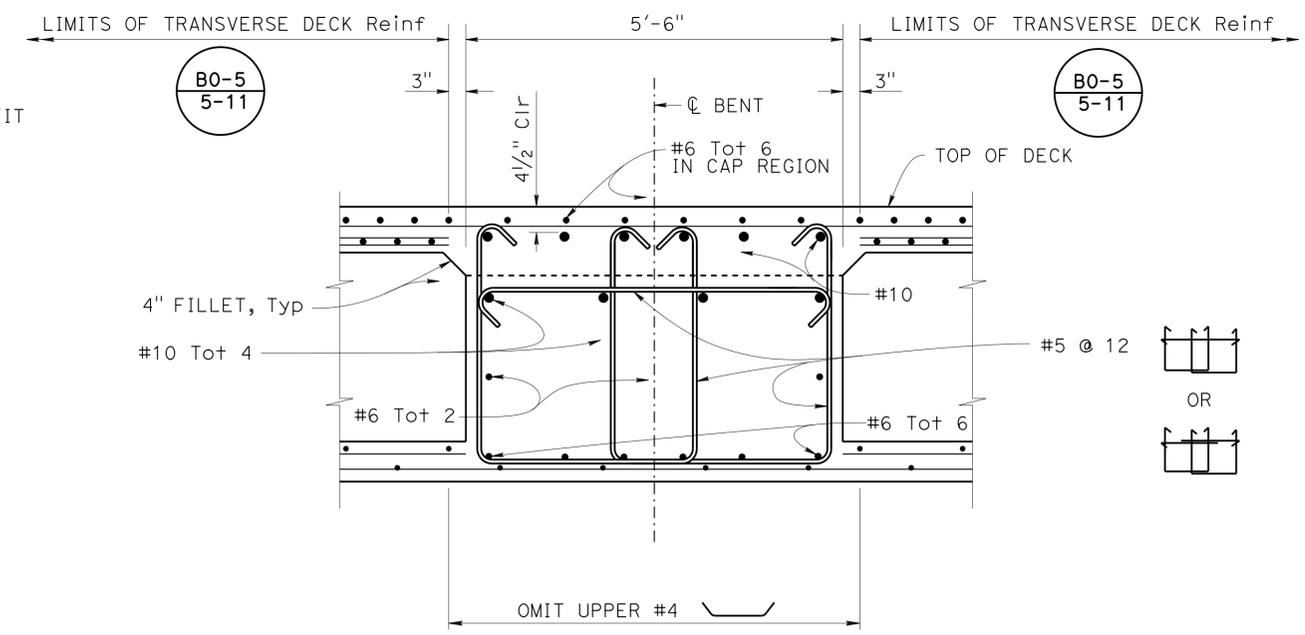
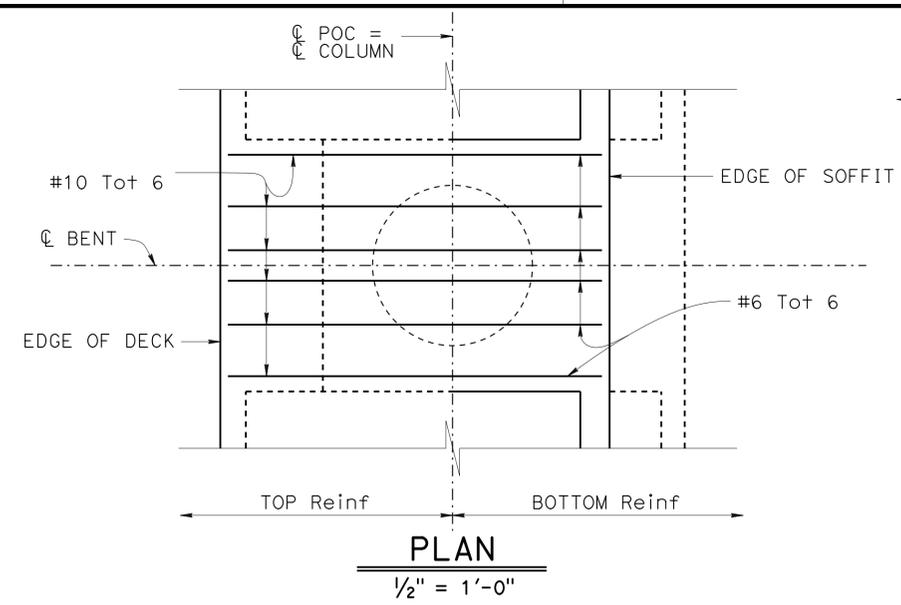
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
ABUTMENT DETAILS NO. 2

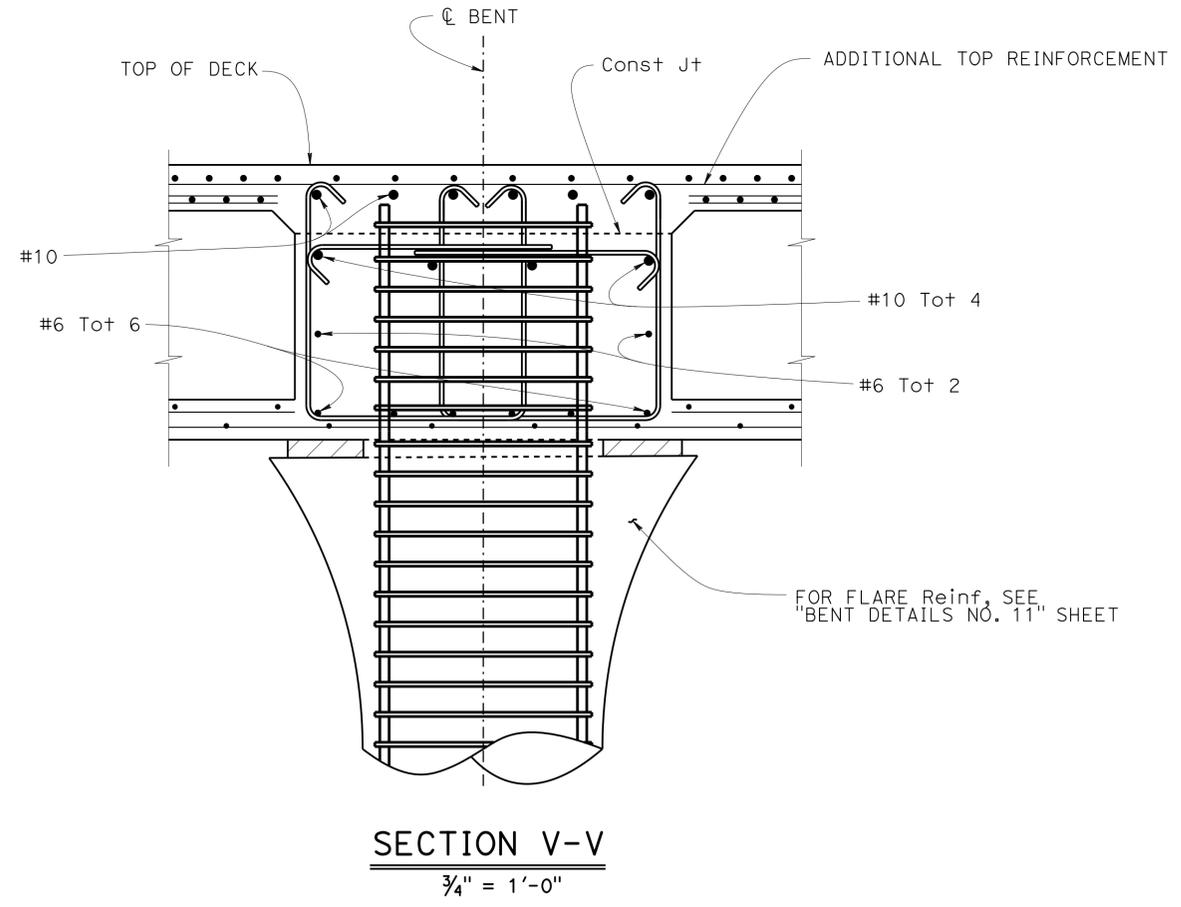
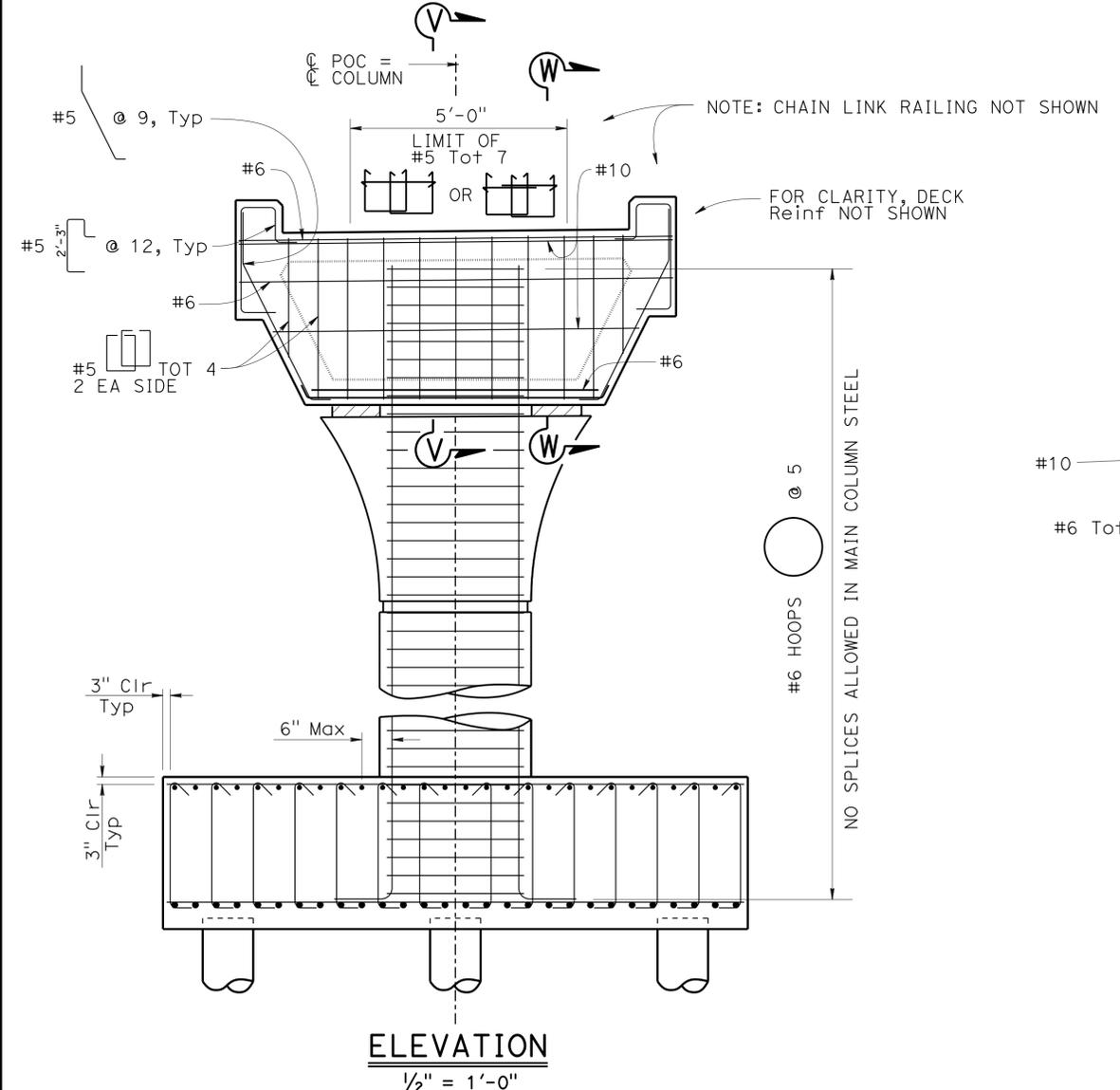
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|--|--------|-------|--------------------------|---------------------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 72 | 95 |
| | | | | 4-14-14 | |
| REGISTERED CIVIL ENGINEER | | | | DATE | |
| 5-12-14 | | | | PLANS APPROVAL DATE | |
| <small>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.</small> | | | | | |



- NOTE:
- For more details, see "BENT DETAILS" sheets.
 - Use "Ultimate Butt" splice to fabricate column hoop reinforcement.
 - See "BENT DETAILS NO. 11" sheet for column flare geometry, flare reinforcing, and architectural details.

LEGEND:

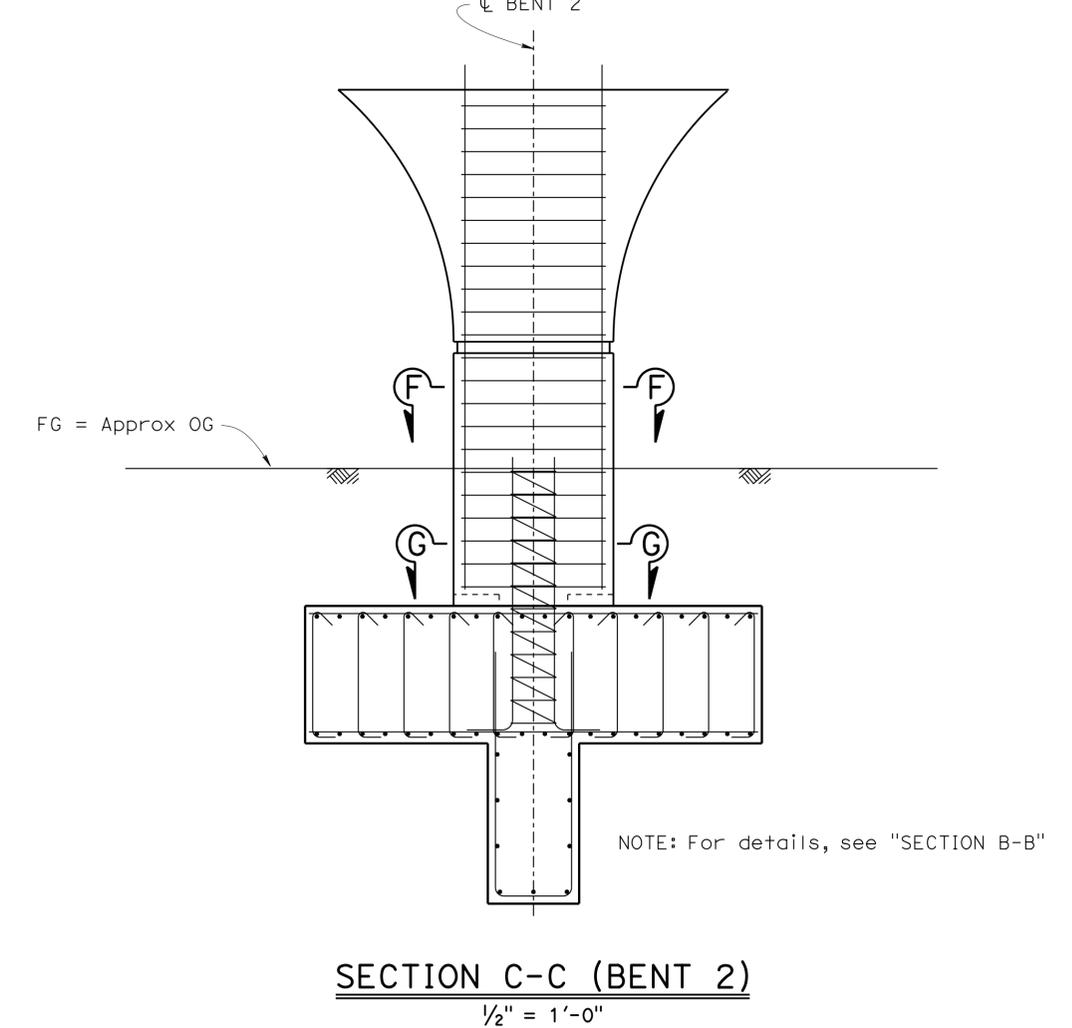
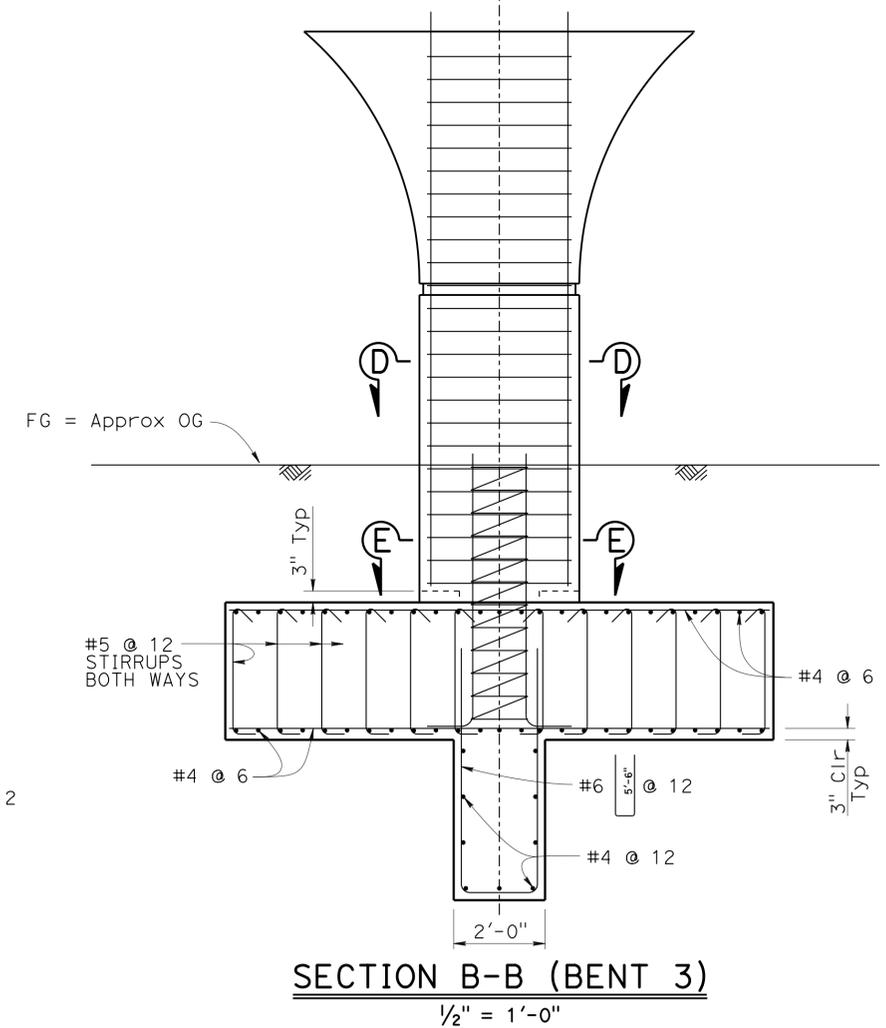
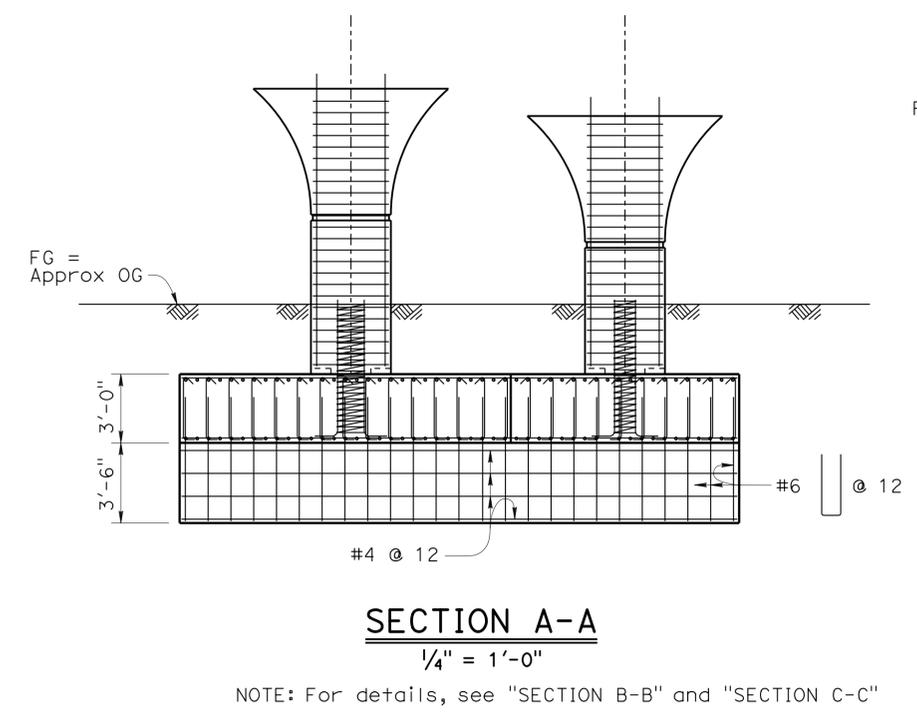
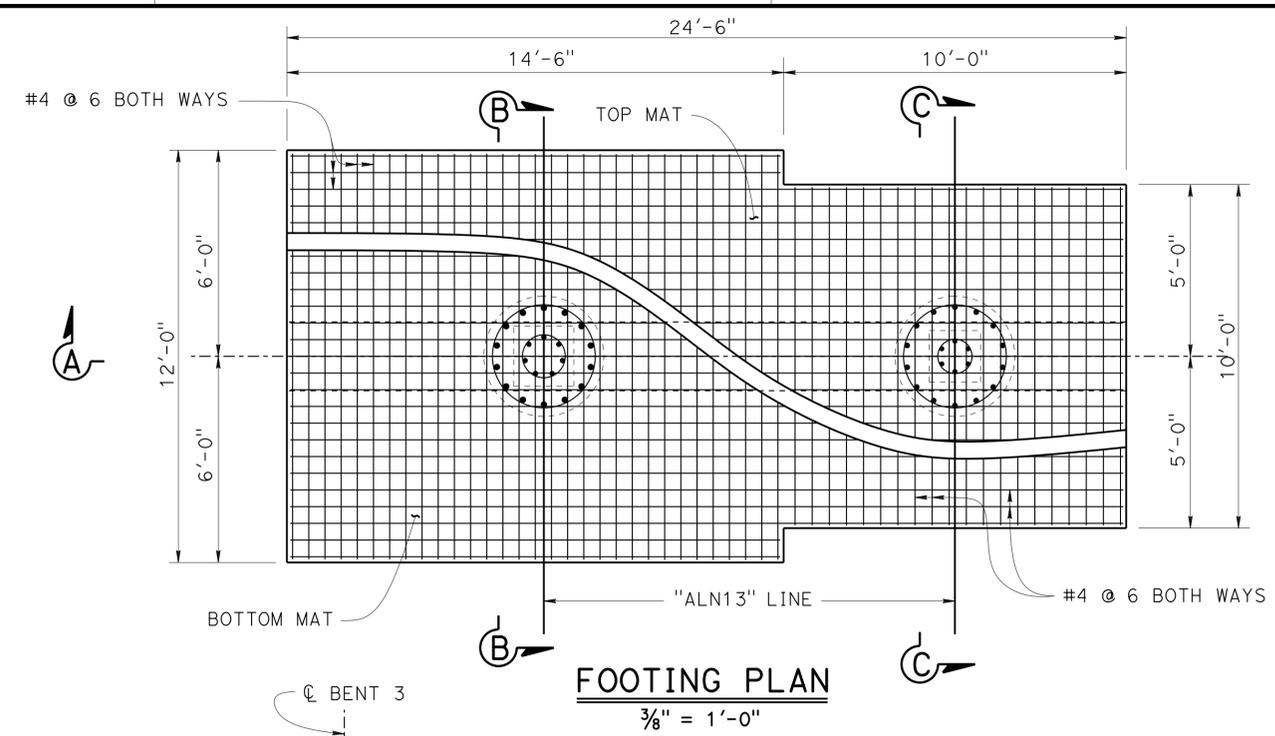
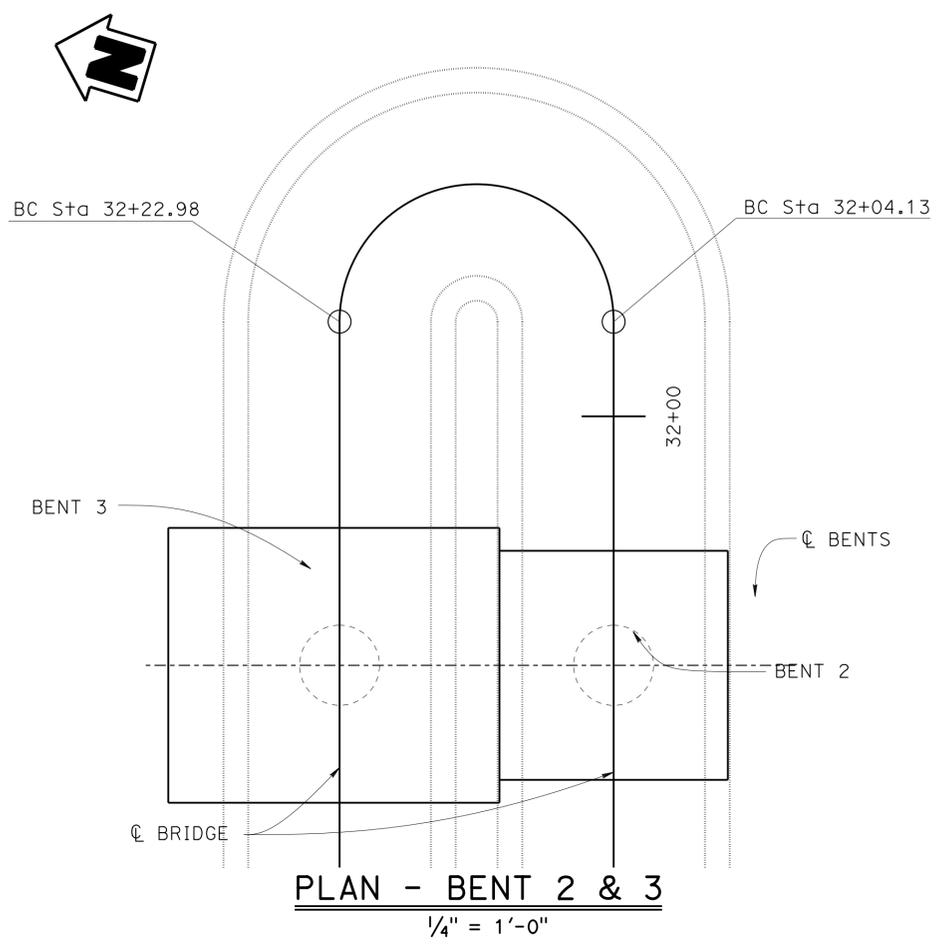
Denotes expanded polystyrene



| | | | | | |
|---|--|--|--|--|---|
| DESIGN BY David Alvarez CHECKED Hilario Tuazon | | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. | SUNNY LANE POC BENT LAYOUT |
| DETAILS BY David Elliott CHECKED Hilario Tuazon | | | | 50-0517 | |
| QUANTITIES BY Hilario Tuazon CHECKED Rachel Washington | | | | POST MILE R 4.35 | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | UNIT: 3591 PROJECT NUMBER & PHASE: 0614000265-1 | CONTRACT NO.: 06-0H6414 | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | 0 1 2 3 | REVISION DATES 3-12-13 3-13-14 4-3-14 | SHEET 18 OF 41 |

| | | | | | |
|---|--------|-------|---------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 73 | 95 |
| | | | DATE | | |
| | | | 4-14-14 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | 5-12-14 | | |
| | | | PLANS APPROVAL DATE | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |
| | | | | | |

- NOTES:
- For Section D-D, E-E, F-F and G-G, see "BENT DETAILS NO. 10" sheet.



NOTE: For details, see "SECTION B-B" and "SECTION C-C"

NOTE: For details, see "SECTION B-B"

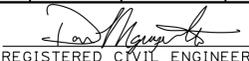
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

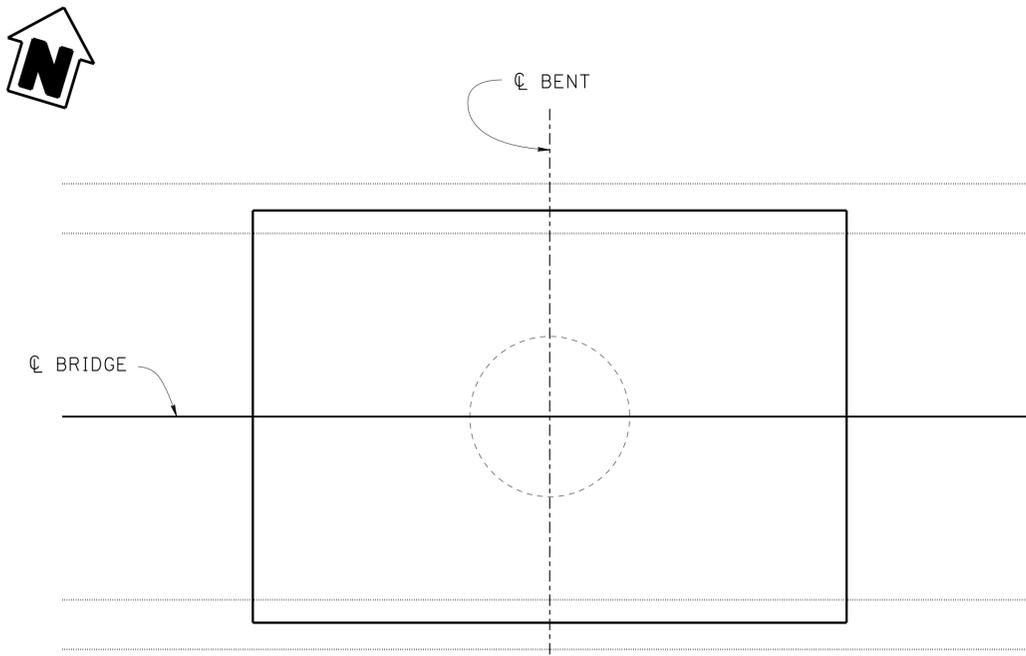
SUNNY LANE POC
BENT DETAILS NO. 1

| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 74 | 95 |
|  REGISTERED CIVIL ENGINEER | | | | 4-14-14 | DATE |
| PLANS APPROVAL DATE 5-12-14 | | | | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |

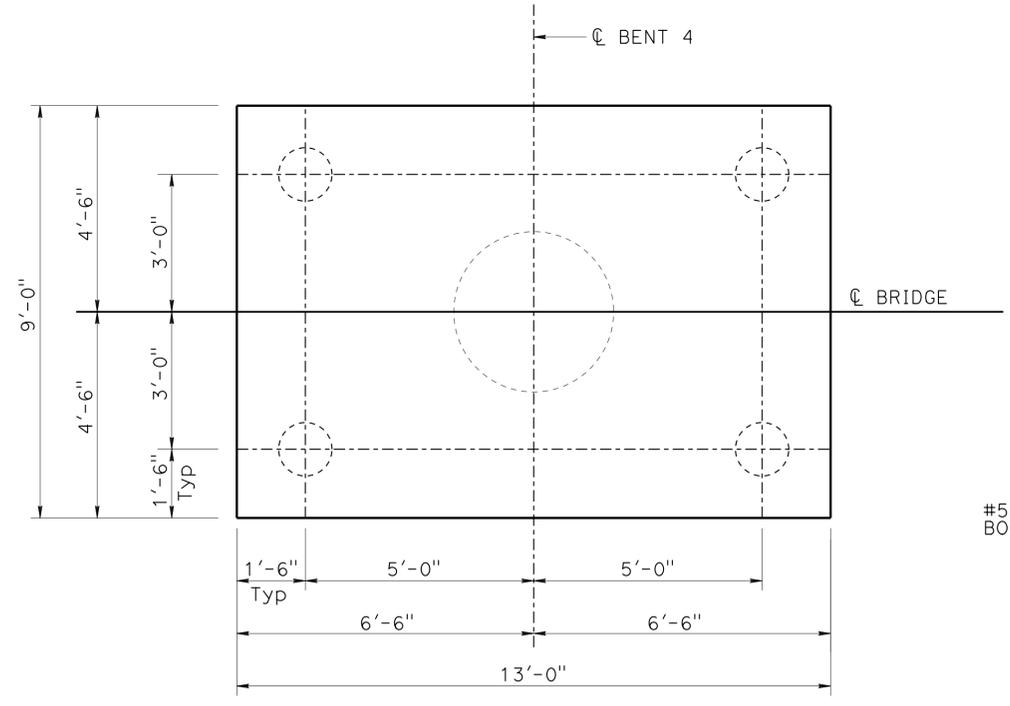


NOTES:
 1. For Section F-F, see "BENT DETAILS NO. 10" sheet.

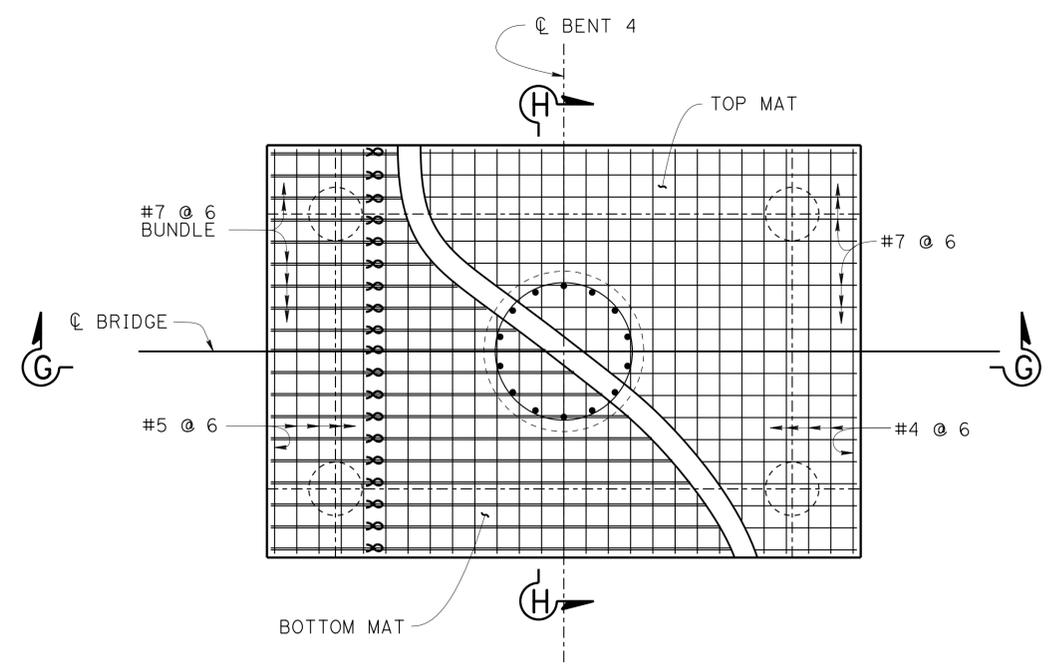
LEGEND:
 ∞ Denotes bundled bars



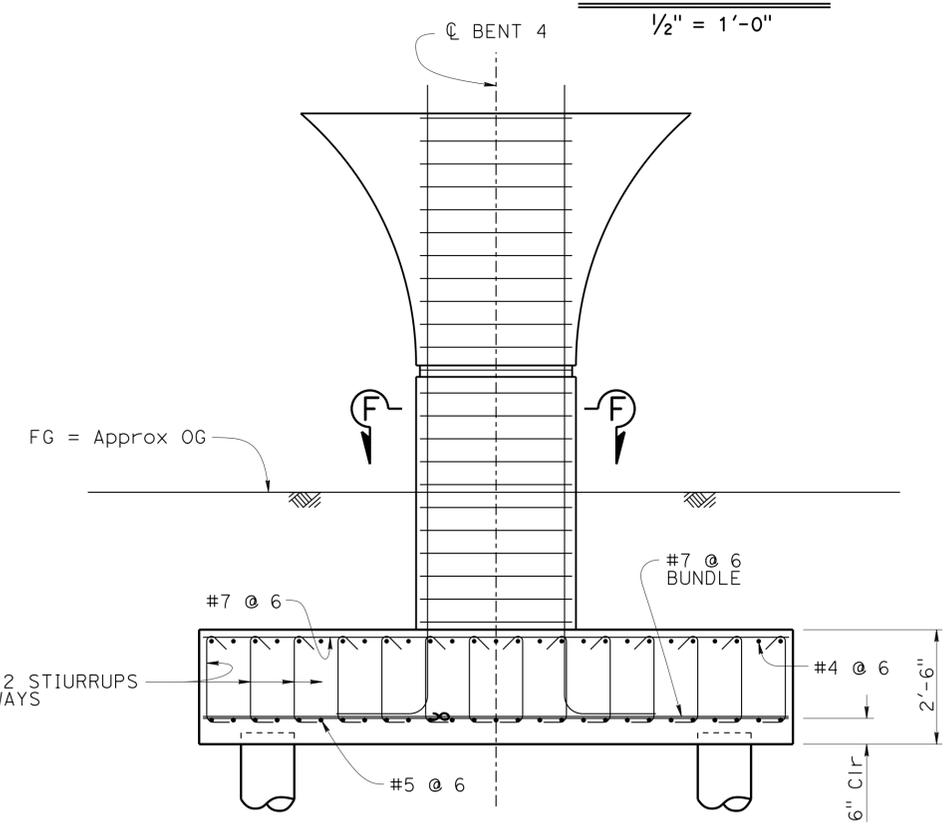
PLAN - BENT 4
 $\frac{1}{2}'' = 1'-0''$



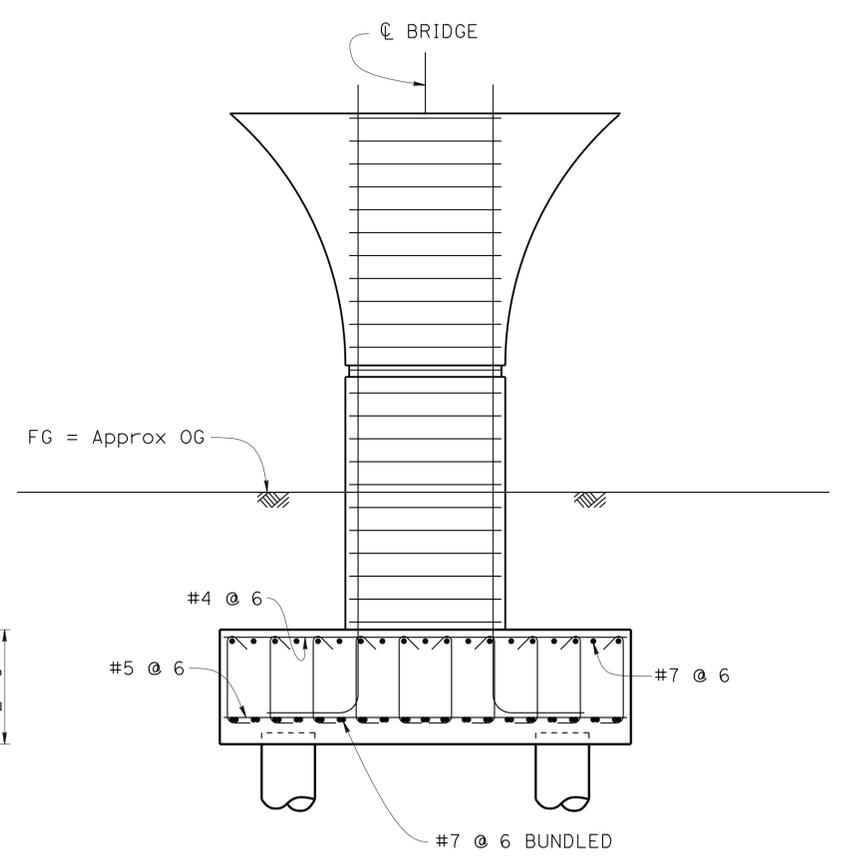
FOOTING PILE LAYOUT
 $\frac{1}{2}'' = 1'-0''$



FOOTING PLAN
 $\frac{1}{2}'' = 1'-0''$



SECTION G-G (B2-8)
 $\frac{1}{2}'' = 1'-0''$



NOTE: For details, see "SECTION G-G"

SECTION H-H (B2-8)
 $\frac{1}{2}'' = 1'-0''$

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

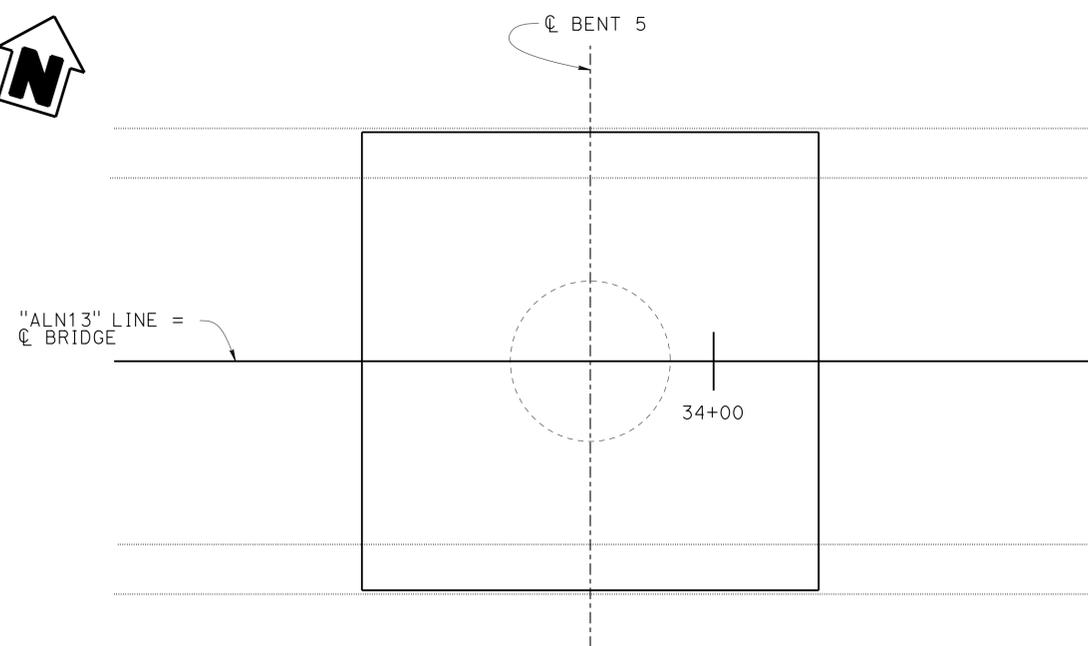
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

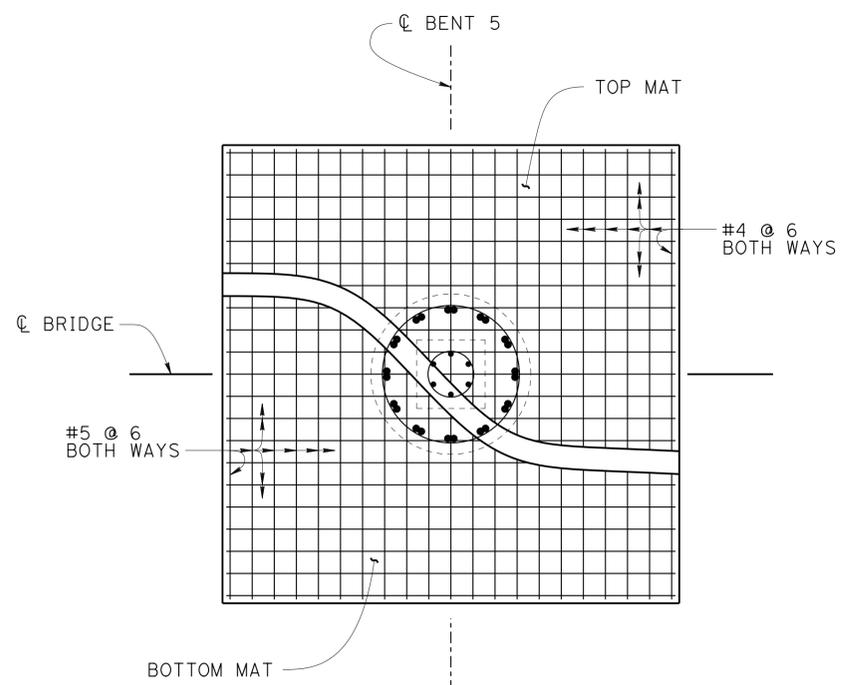
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 2

| | | | | | |
|---|--------|-------|---------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 75 | 95 |
| | | | DATE | | |
| | | | 4-14-14 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | 5-12-14 | | |
| | | | PLANS APPROVAL DATE | | |
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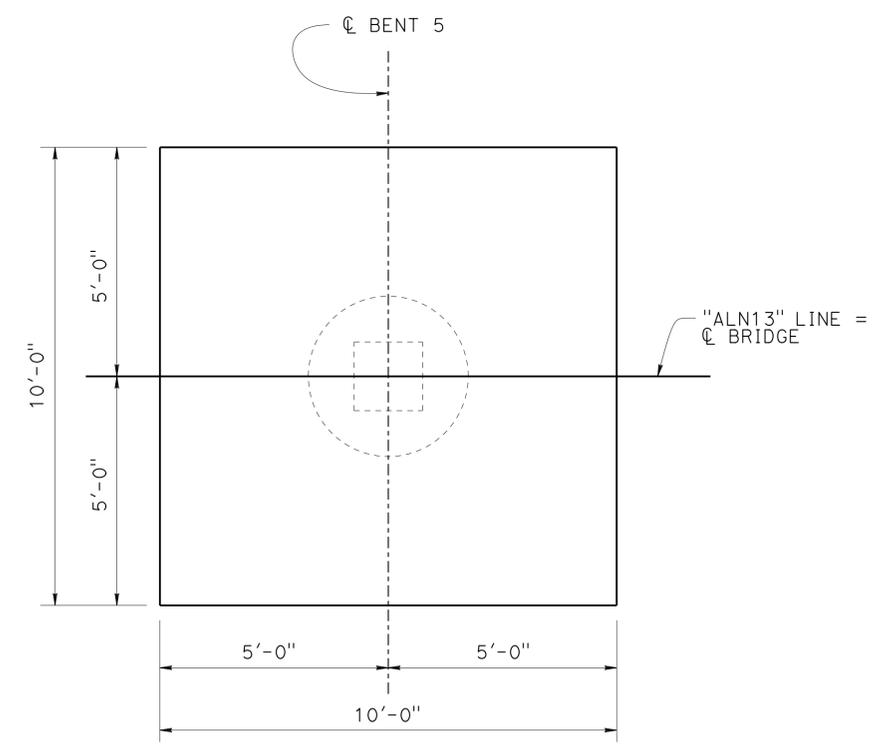


PLAN - BENT 5
1/2" = 1'-0"

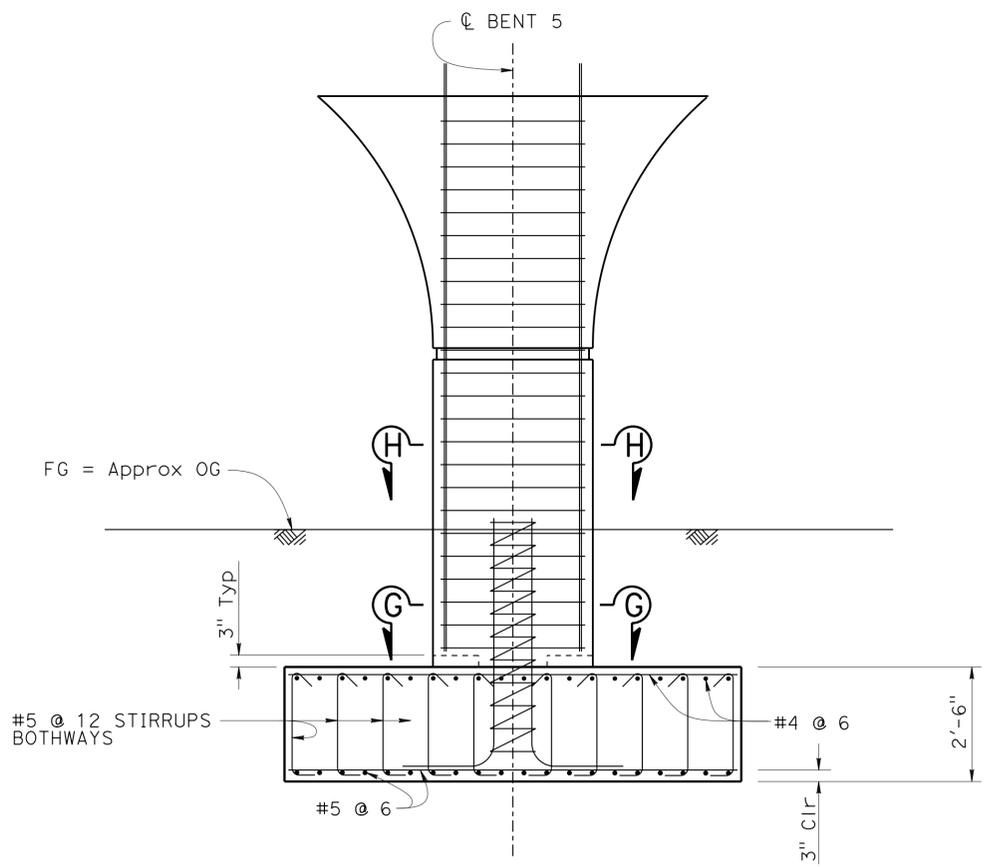


FOOTING PLAN
1/2" = 1'-0"

NOTE:
1. For "SECTION H-H" and "SECTION G-G", see "BENT DETAILS NO. 10" sheet.



PLAN - SPREAD FOOTING LAYOUT
1/2" = 1'-0"



ELEVATION - BENT 5
1/2" = 1'-0"

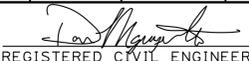
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|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

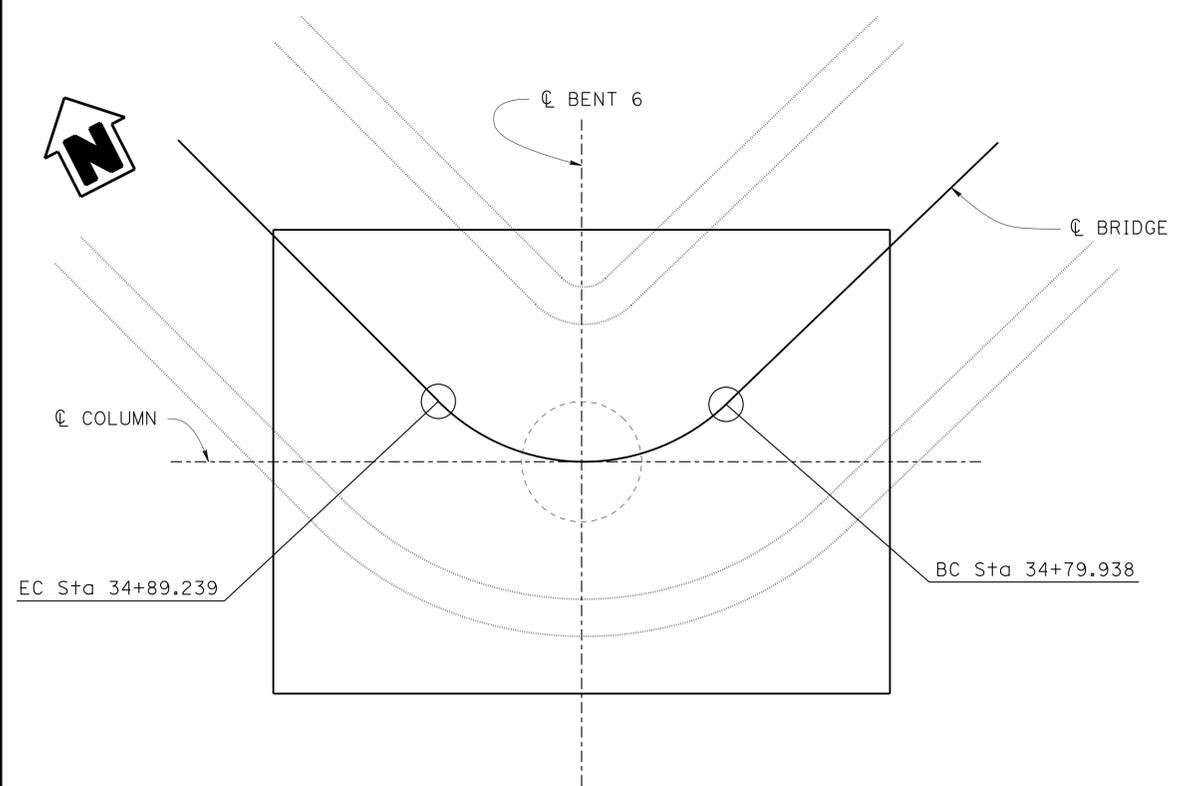
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

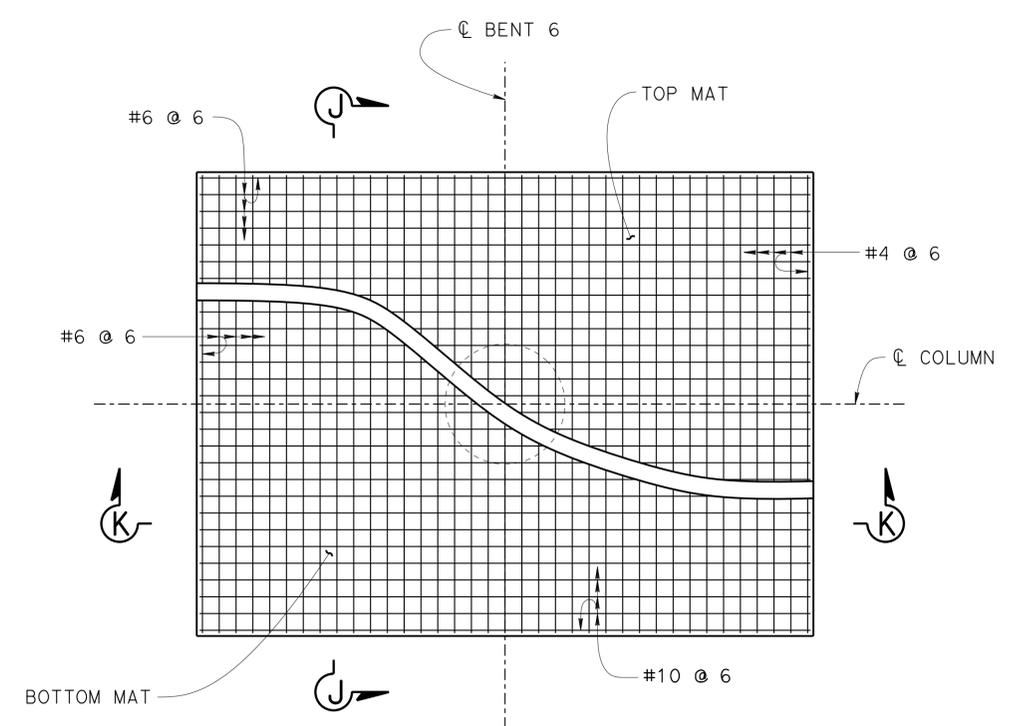
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 3

| | | | | | |
|--|--------|-------|--------------------------|---|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 76 | 95 |
|  REGISTERED CIVIL ENGINEER DATE 4-14-14 | | | |  | |
| PLANS APPROVAL DATE 5-12-14 | | | | | |
| <small>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.</small> | | | | | |

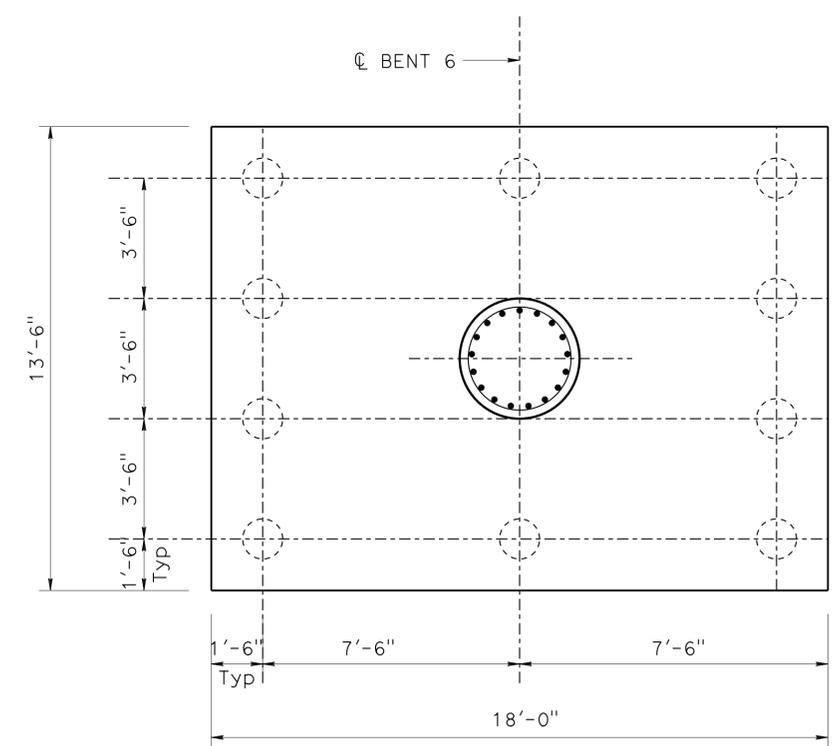


PLAN - BENT 6
 $\frac{3}{8}'' = 1'-0''$

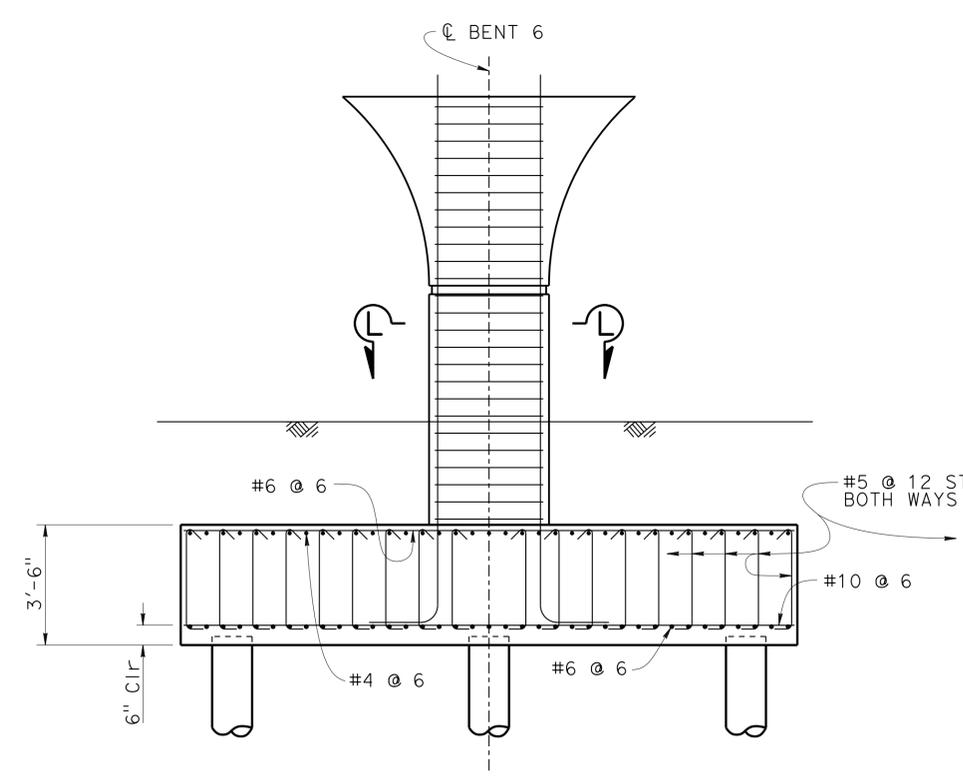


FOOTING PLAN
 $\frac{3}{8}'' = 1'-0''$

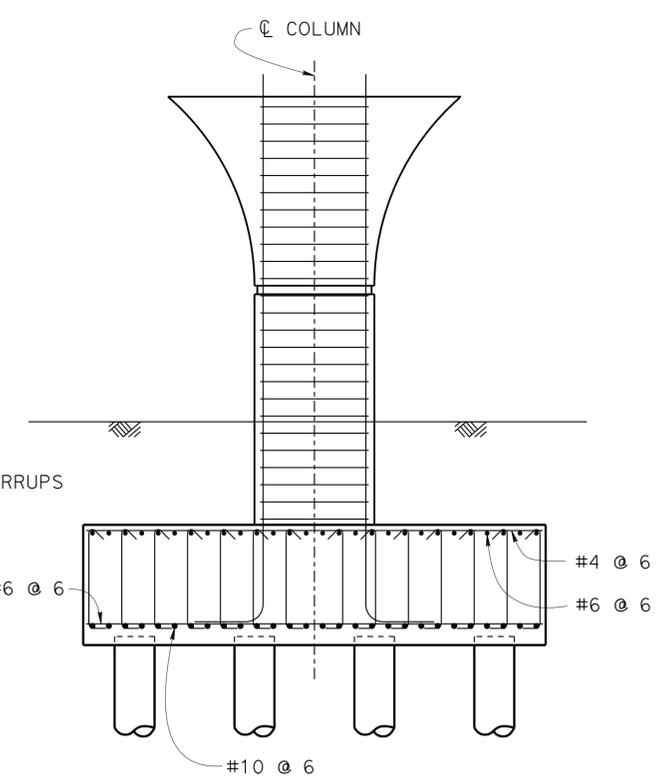
NOTE:
 1. For SECTION L-L, see "BENT DETAILS NO. 10" sheet.



FOOTING PILE LAYOUT
 $\frac{3}{8}'' = 1'-0''$



SECTION K-K (B2-8)
 $\frac{3}{8}'' = 1'-0''$



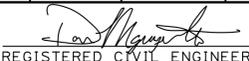
SECTION J-J (B2-8)
 $\frac{3}{8}'' = 1'-0''$

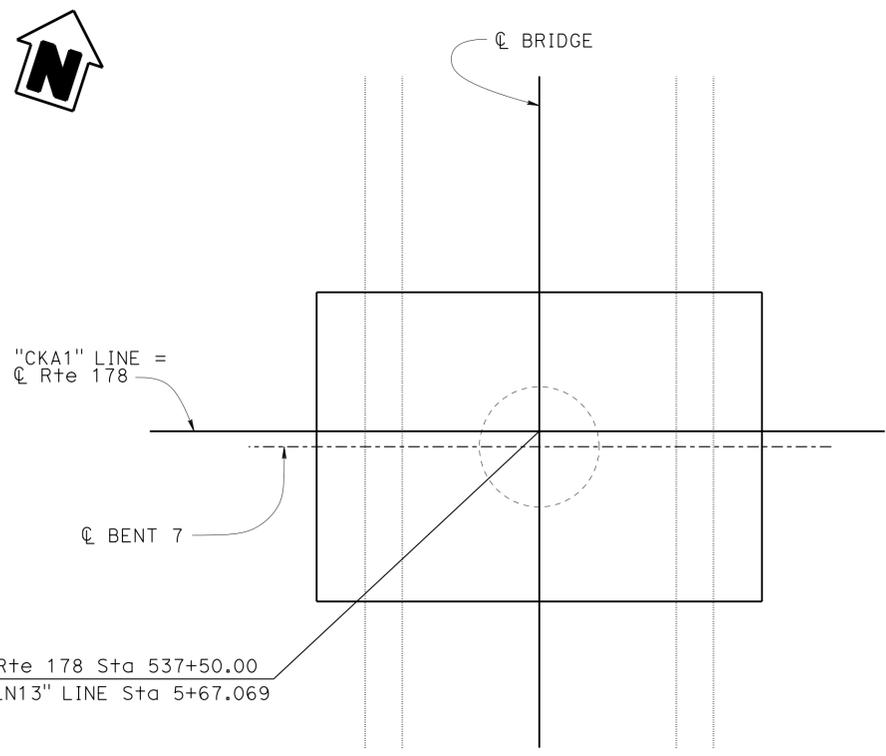
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

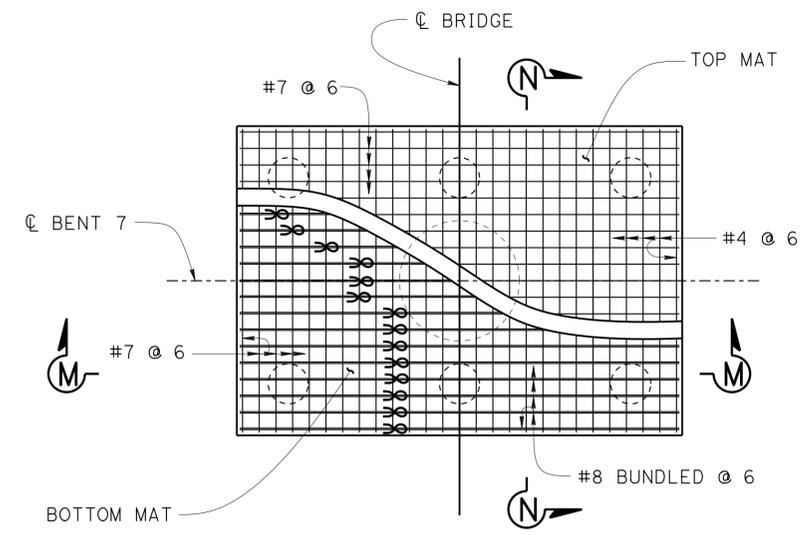
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 4

| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 77 | 95 |
|  REGISTERED CIVIL ENGINEER | | | | DATE | 4-14-14 |
| PLANS APPROVAL DATE | | | | 5-12-14 | |
| 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. | | | | | |
|  | | | | | |



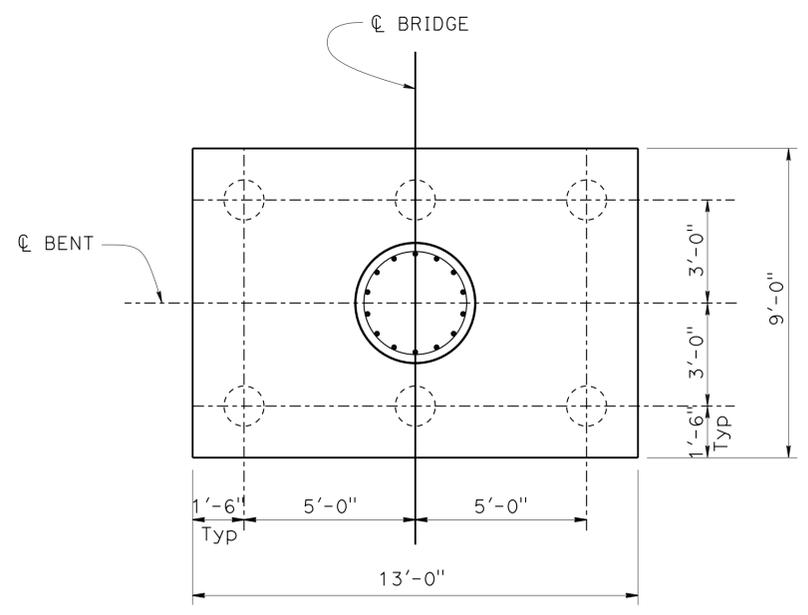
PLAN - BENT 7
 $\frac{3}{8}'' = 1'-0''$



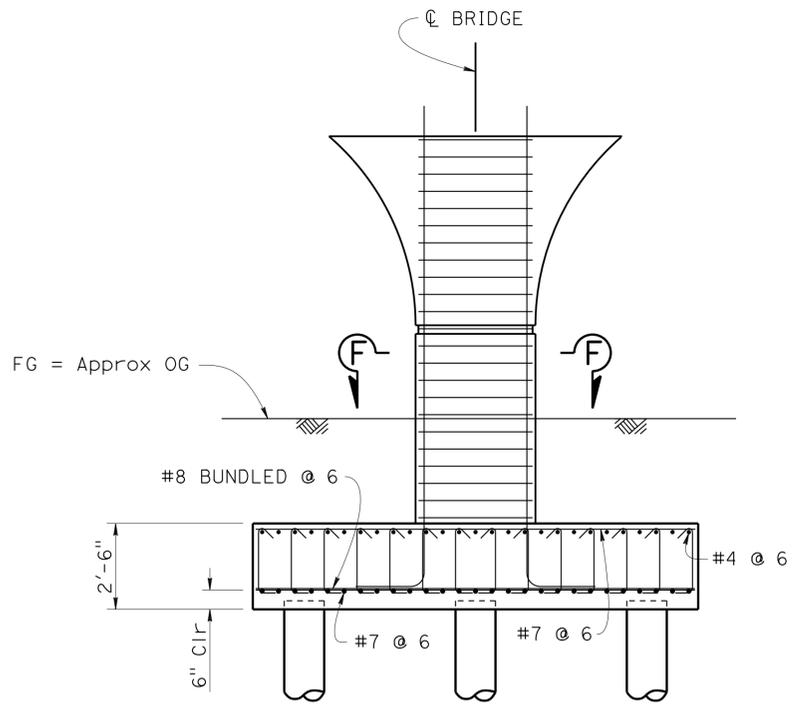
FOOTING PLAN
 $\frac{3}{8}'' = 1'-0''$

NOTE:
 1. For SECTION F-F, see "BENT DETAILS NO. 10" sheet.

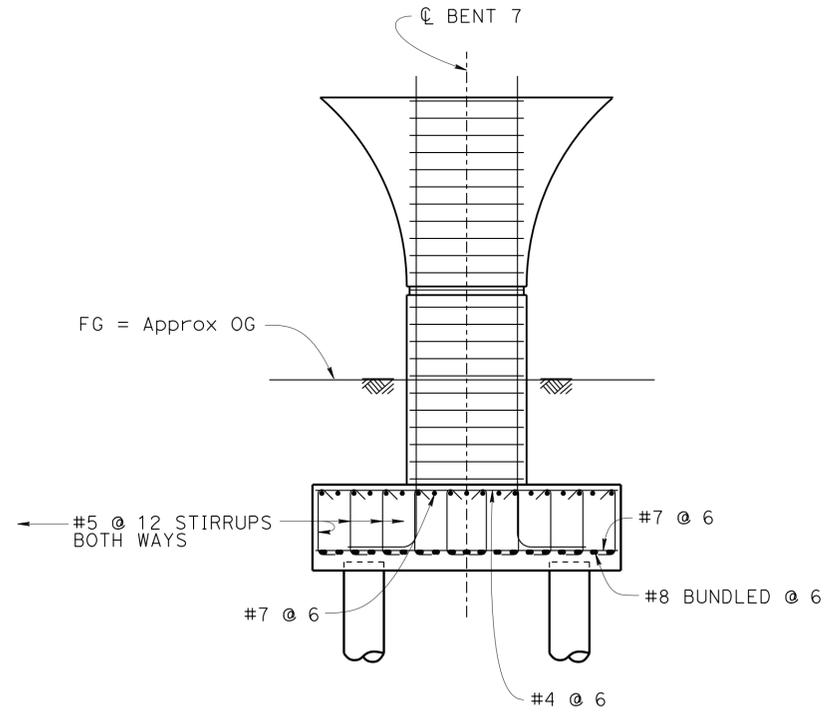
∞ Indicates bundled bars



FOOTING PILE LAYOUT
 $\frac{3}{8}'' = 1'-0''$



SECTION M-M (B2-8)
 $\frac{3}{8}'' = 1'-0''$



SECTION N-N (B2-8)
 $\frac{3}{8}'' = 1'-0''$

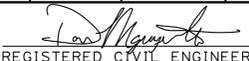
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

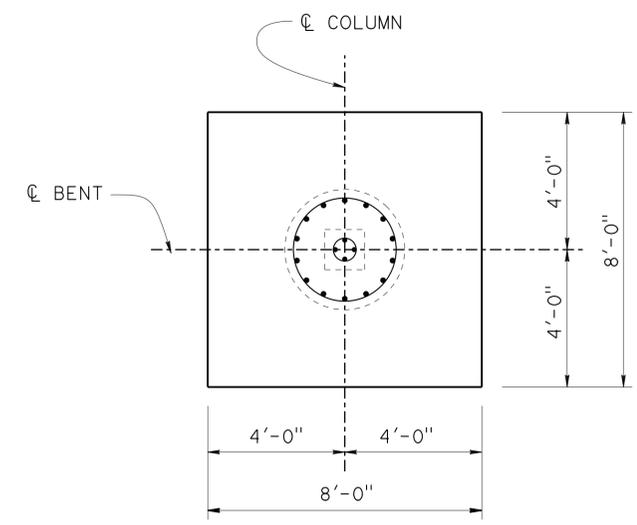
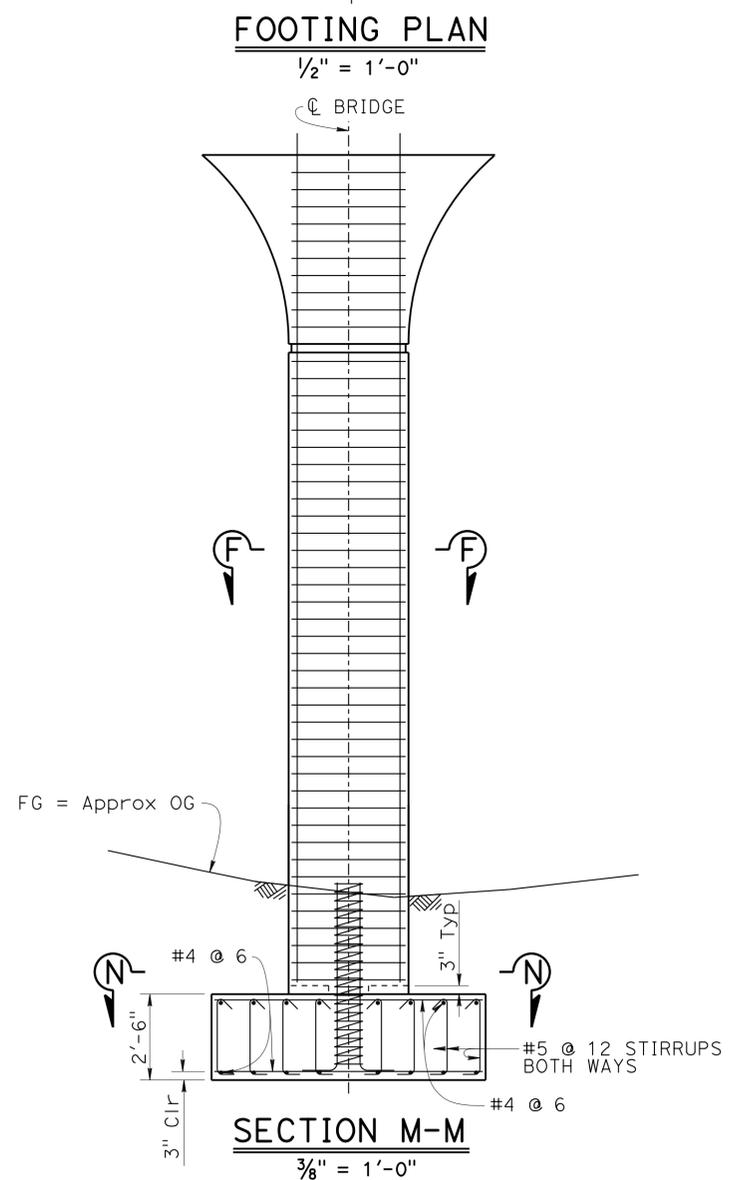
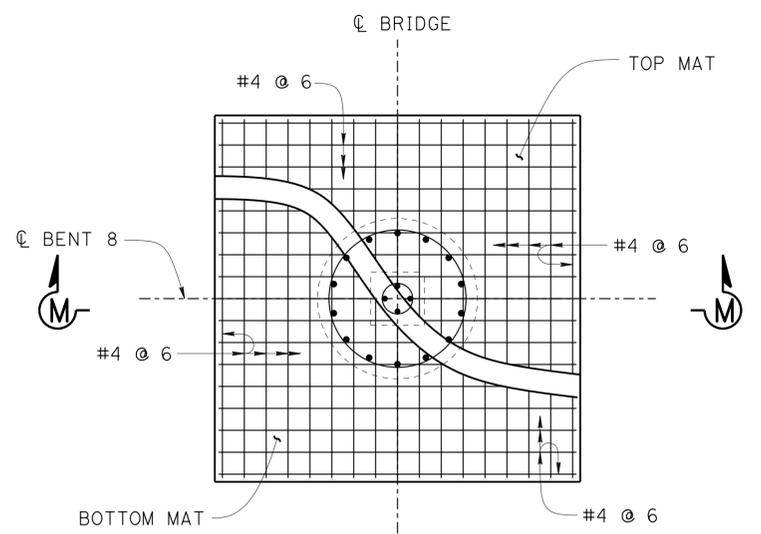
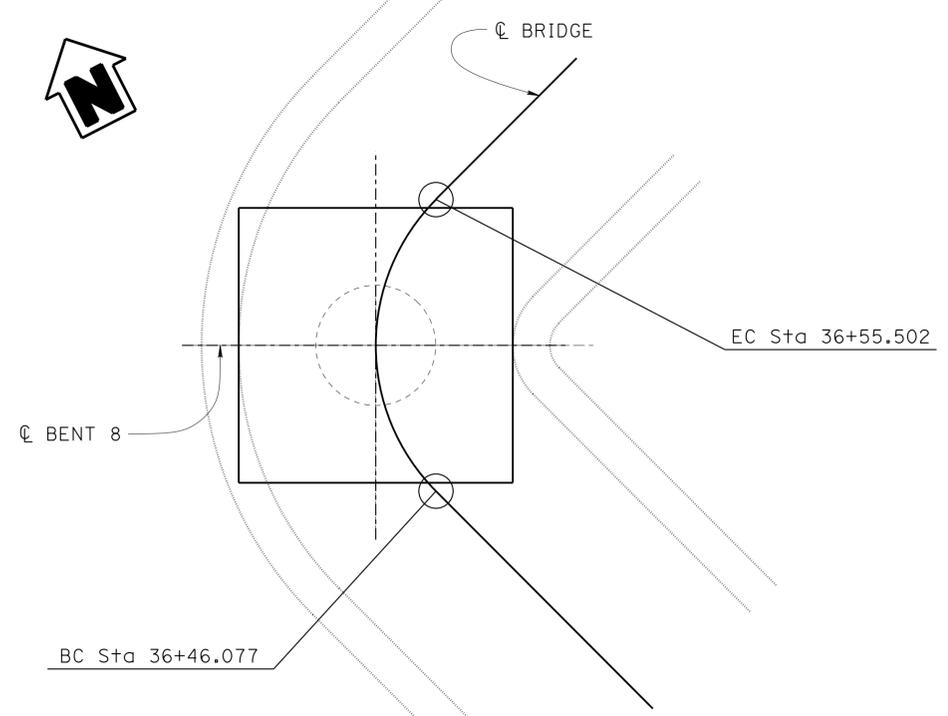
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 5

| | | | | | |
|--|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 78 | 95 |
|  REGISTERED CIVIL ENGINEER | | | | 4-14-14 | DATE |
| PLANS APPROVAL DATE | | | | 5-12-14 | |
|  | | | | | |
| <small>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.</small> | | | | | |



NOTE:
 1. For SECTION N-N and SECTION F-F, see "BENT DETAILS NO. 10" sheet.

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

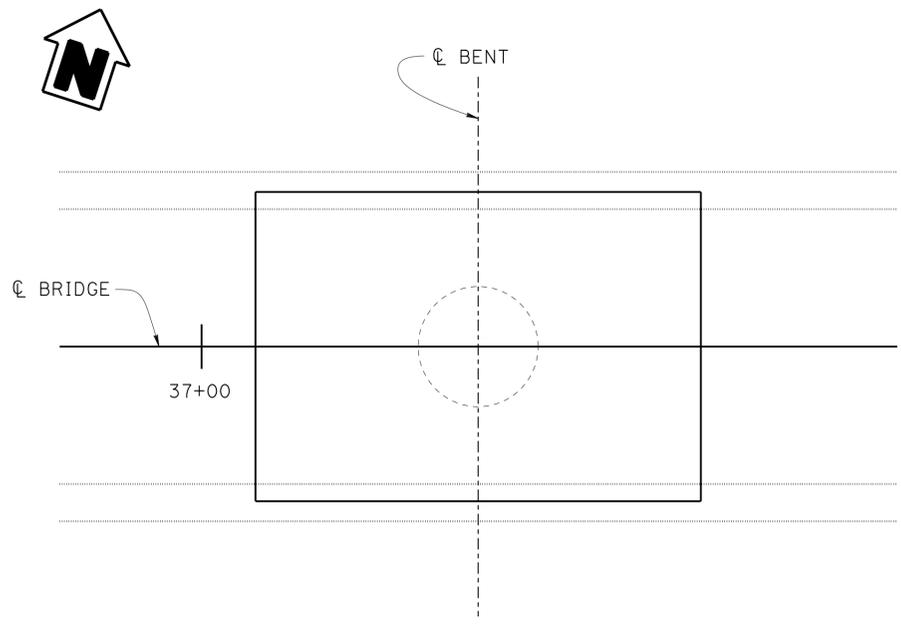
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

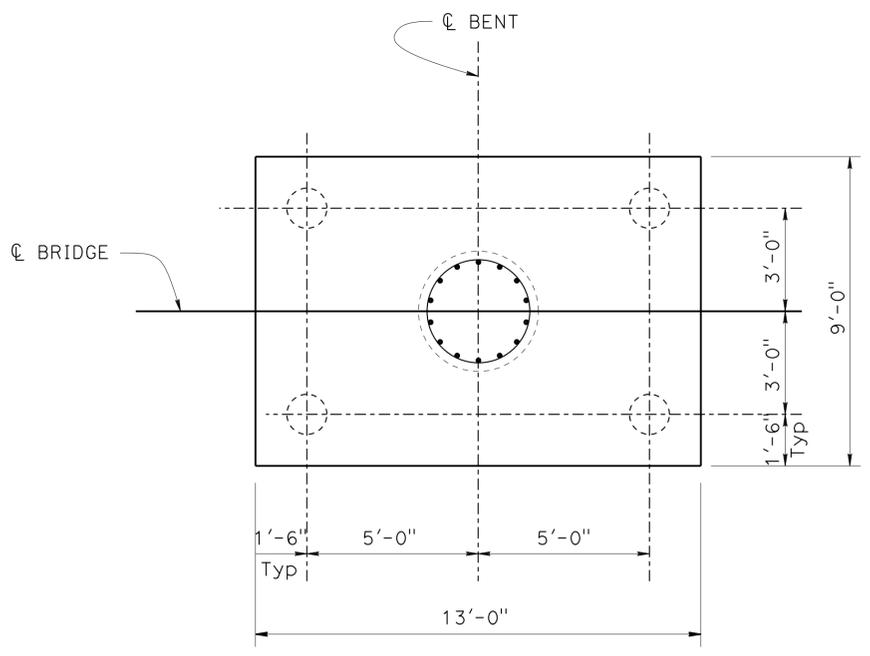
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 6

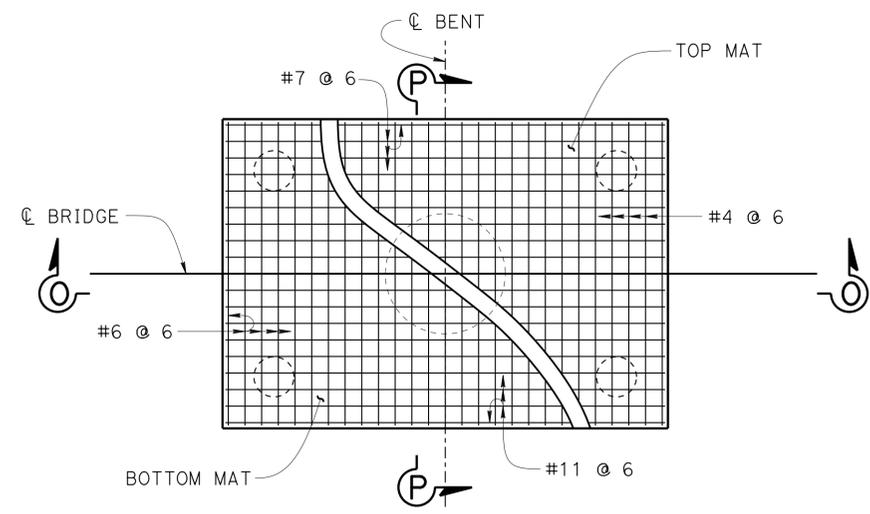
| | | | | | |
|---|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 79 | 95 |
| | | | DATE | | |
| | | | 4-14-14 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | 5-12-14 | | |
| | | | PLANS APPROVAL DATE | | |
| | | | REGISTERED PROFESSIONAL ENGINEER DON NGUYEN-TAN No. C57510 Exp. 12-31-15 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. | | | | | |



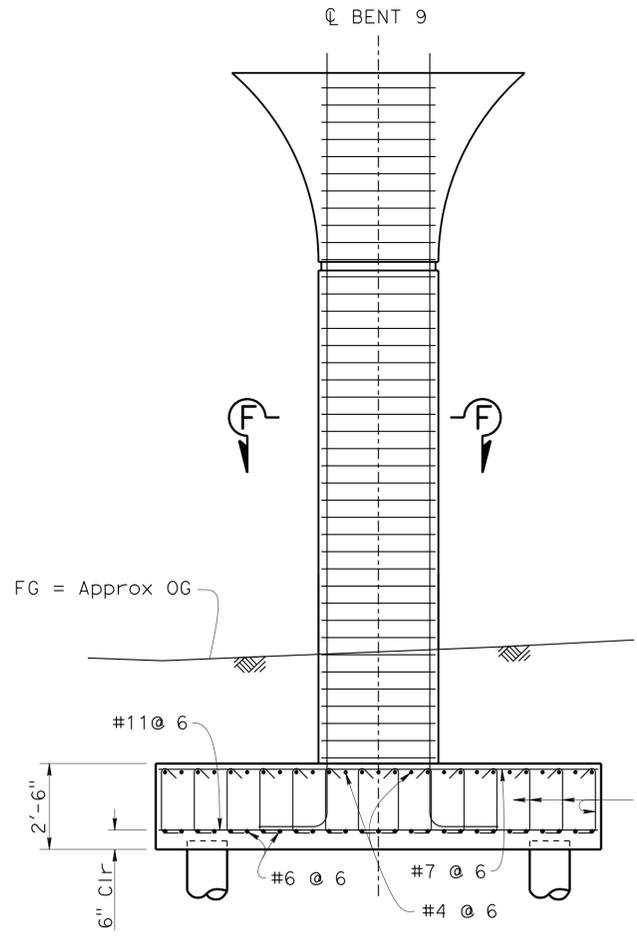
PLAN - BENT 9
3/8" = 1'-0"



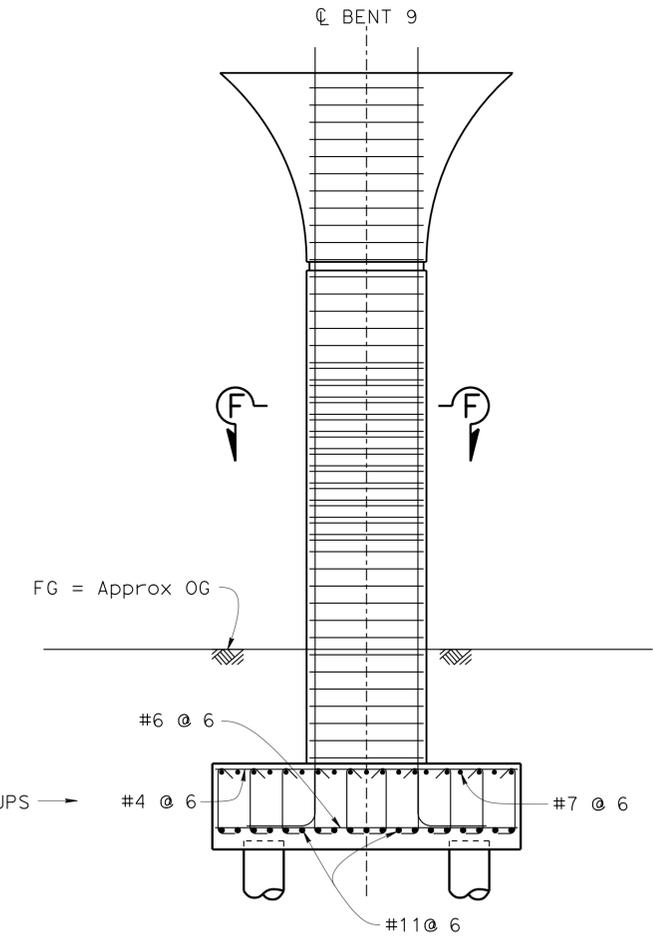
FOOTING PILE LAYOUT
3/8" = 1'-0"



FOOTING PLAN
1/2" = 1'-0"



SECTION 0-0
3/8" = 1'-0" (B2-8)



SECTION P-P
3/8" = 1'-0"

NOTE:
1. For SECTION F-F, see "BENT DETAILS NO. 10" sheet.

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

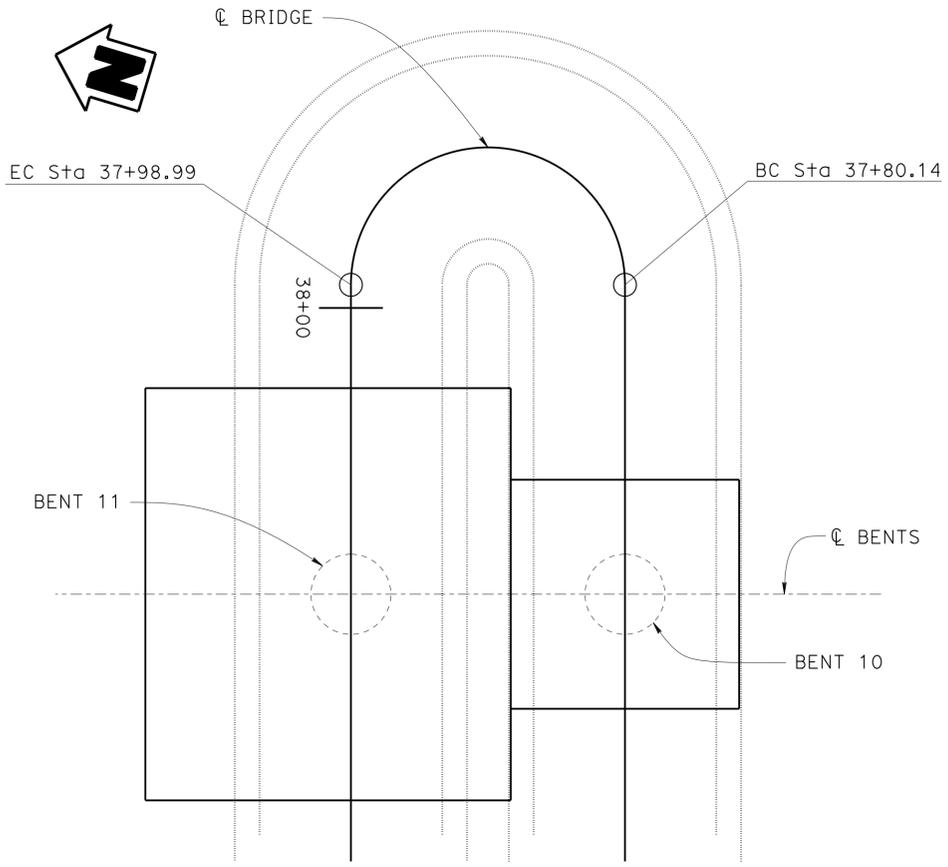
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 7

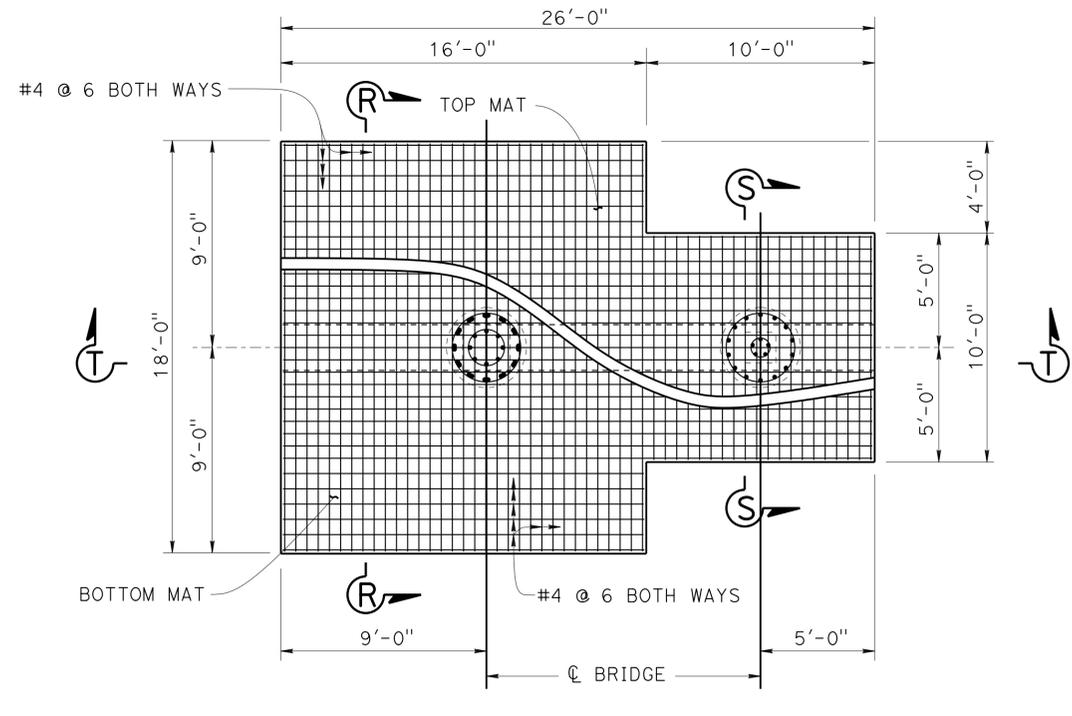
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|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 80 | 95 |
| | | | 4-14-14 | | |
| REGISTERED CIVIL ENGINEER | | | DATE | | |
| | | | 5-12-14 | | |
| PLANS APPROVAL DATE | | | | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |



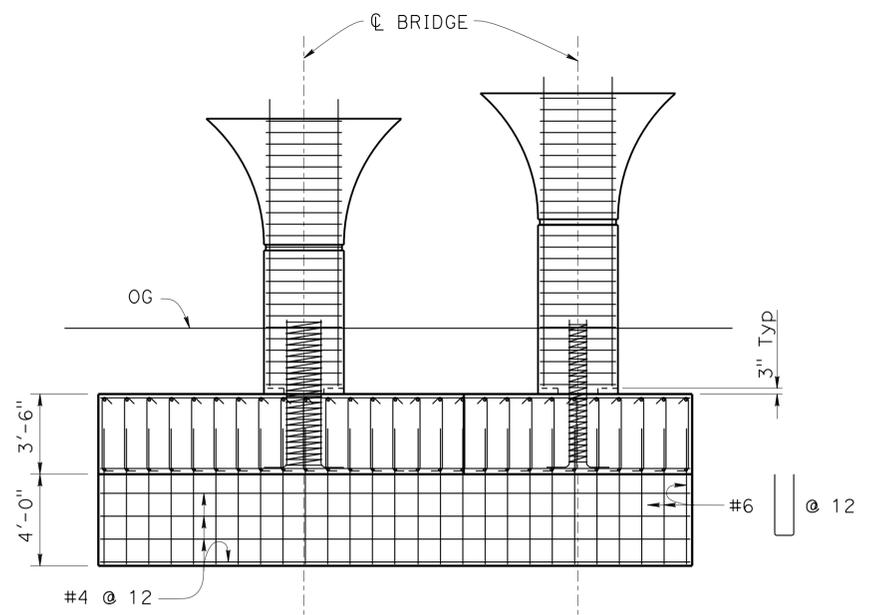
- NOTES:
- For Section F-F, H-H, U-U, and V-V, see "BENT DETAILS NO. 10" sheet.



PLAN - BENT 10 & 11
1/4" = 1'-0"

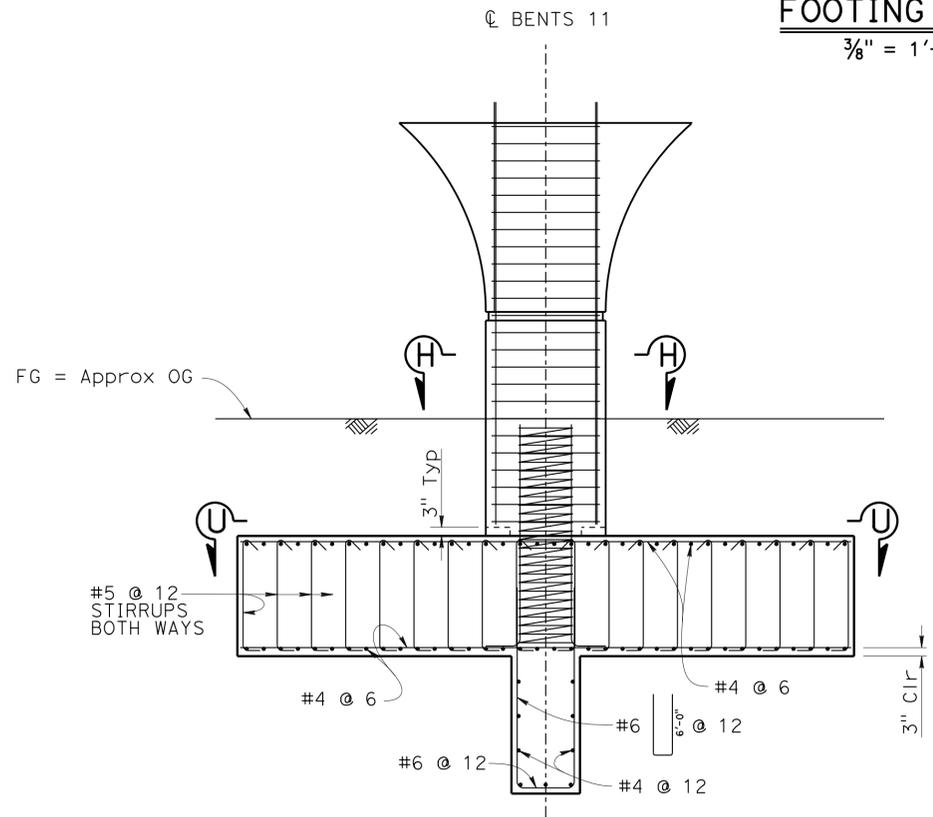


FOOTING PLAN
3/8" = 1'-0"

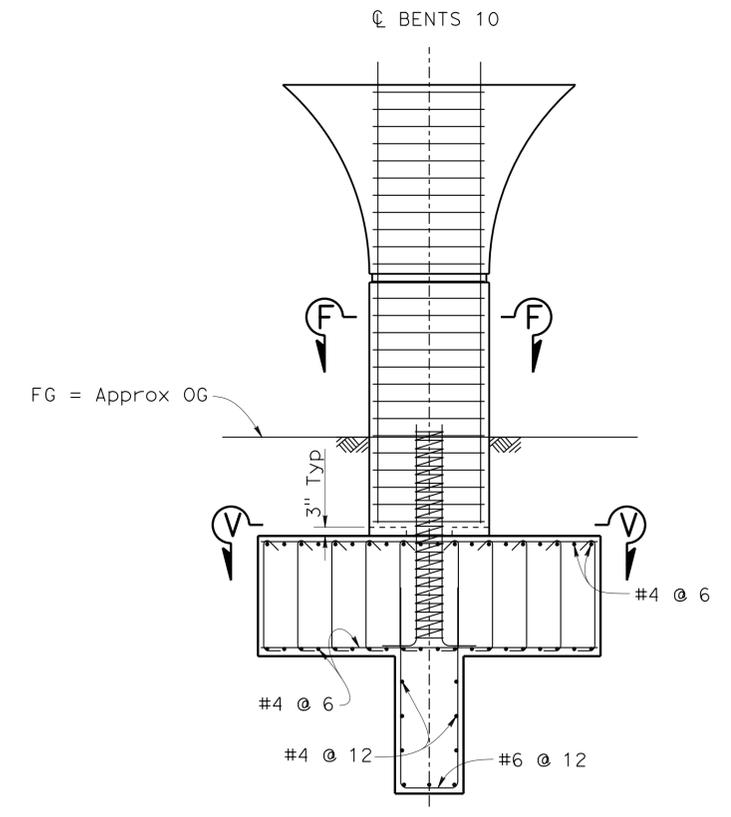


SECTION T-T
1/4" = 1'-0"

NOTE: For details, see "SECTION R-R"



SECTION R-R (BENT 11)
3/8" = 1'-0"



SECTION S-S (BENT 10)
3/8" = 1'-0"

NOTE: For details, see "SECTION R-R"

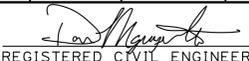
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

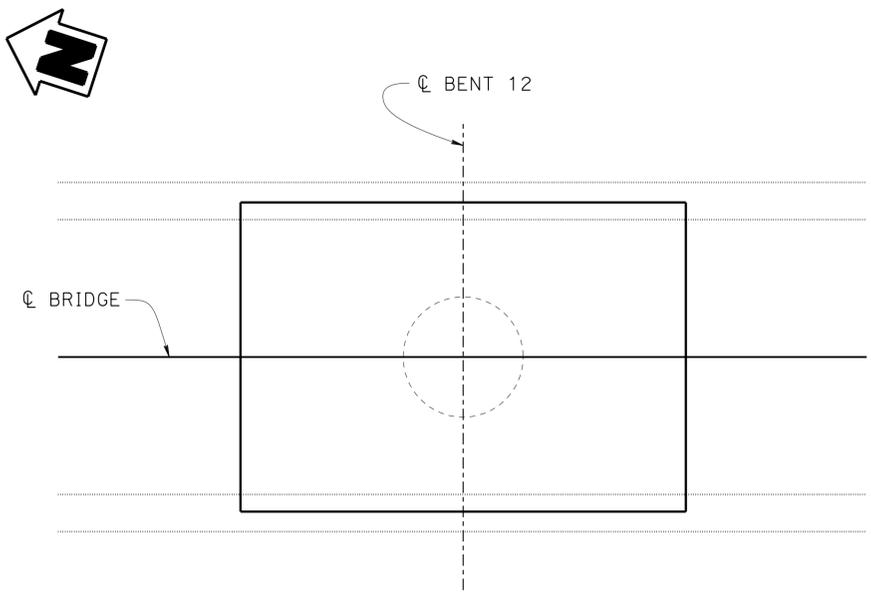
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

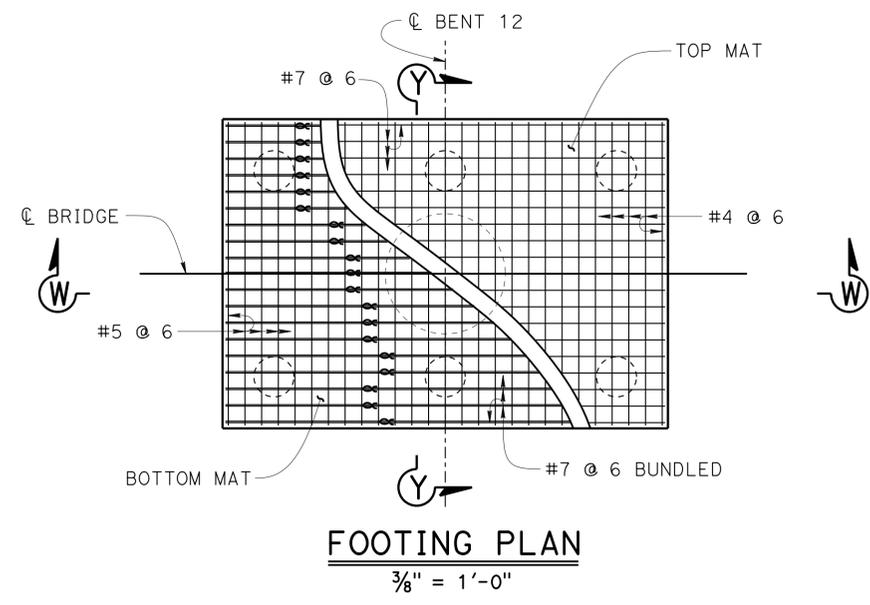
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 8

| | | | | | |
|--|--------|-------|--------------------------|---|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 81 | 95 |
|  REGISTERED CIVIL ENGINEER DATE 4-14-14 | | | |  | |
| PLANS APPROVAL DATE 5-12-14 | | | | | |
| <small>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.</small> | | | | | |



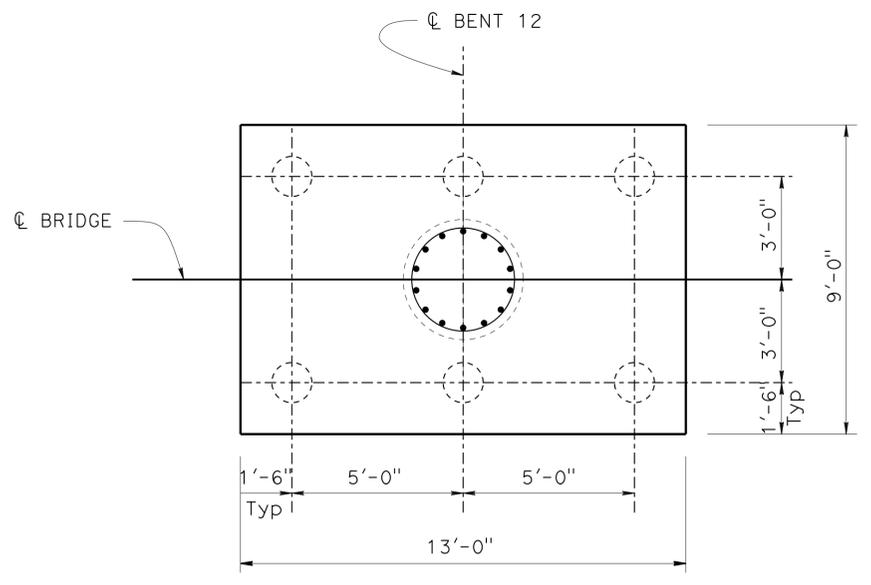
PLAN - BENT 12
 $\frac{3}{8}'' = 1'-0''$



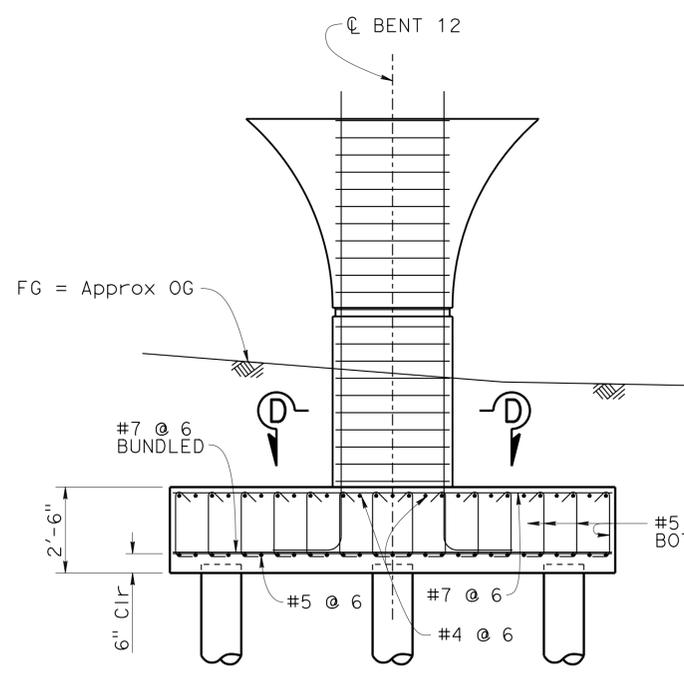
FOOTING PLAN
 $\frac{3}{8}'' = 1'-0''$

NOTE:
 1. For SECTION D-D, see "BENT DETAILS NO. 10" sheet.

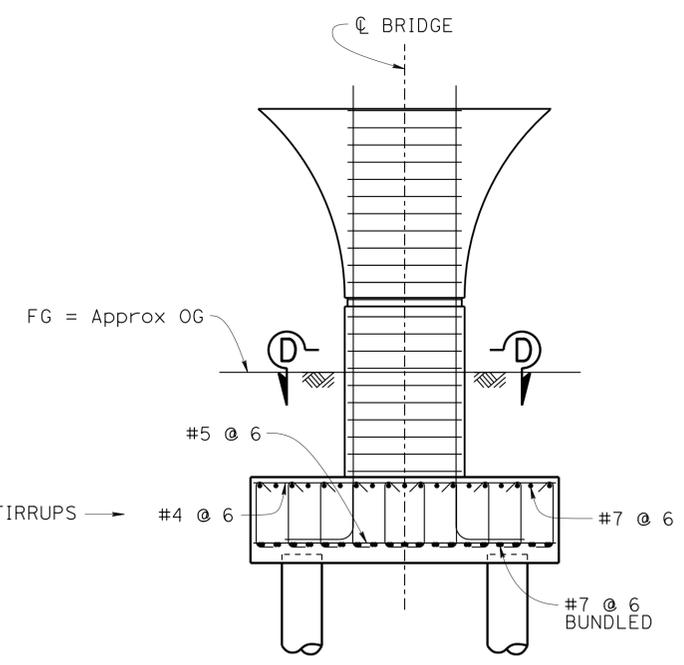
LEGEND:
 ∞ Denotes bundled bar



FOOTING PILE LAYOUT
 $\frac{3}{8}'' = 1'-0''$



SECTION W-W
 $\frac{3}{8}'' = 1'-0''$ (B2-8)



SECTION Y-Y
 $\frac{3}{8}'' = 1'-0''$ (B2-8)

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

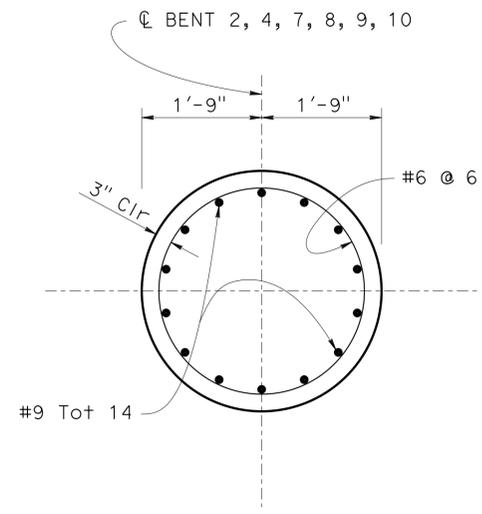
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
BENT DETAILS NO. 9

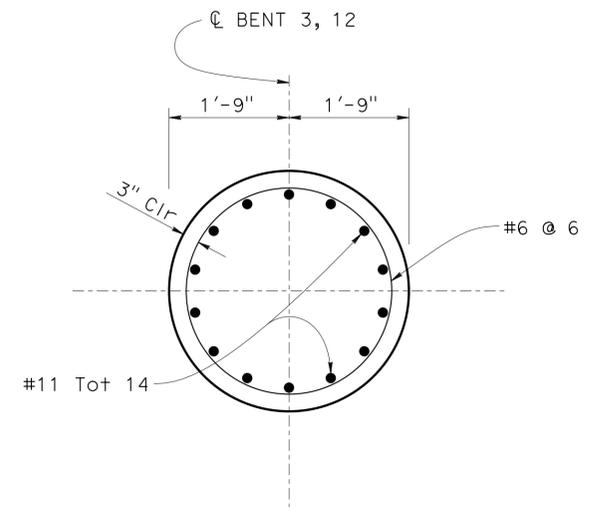
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|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 82 | 95 |
| REGISTERED CIVIL ENGINEER | | | DATE | 4-14-14 | |
| PLANS APPROVAL DATE | | | 5-12-14 | | |
| | | | | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |

- NOTES:
- For locations "SECTION D-D, E-E, F-F, G-G, H-H, L-L, N-N, U-U AND V-V", SEE "BENT DETAILS" sheets.
 - Bar reinforcing clearance indicated is to the valley of the fractured rib texture.
- * Galvanized Steel

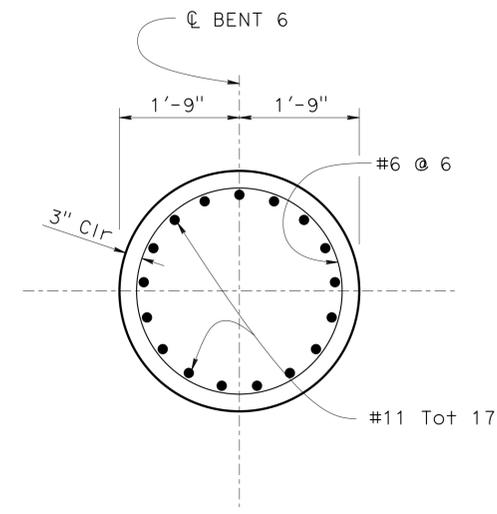
LEGEND:

 Denotes Expanded Polystyrene


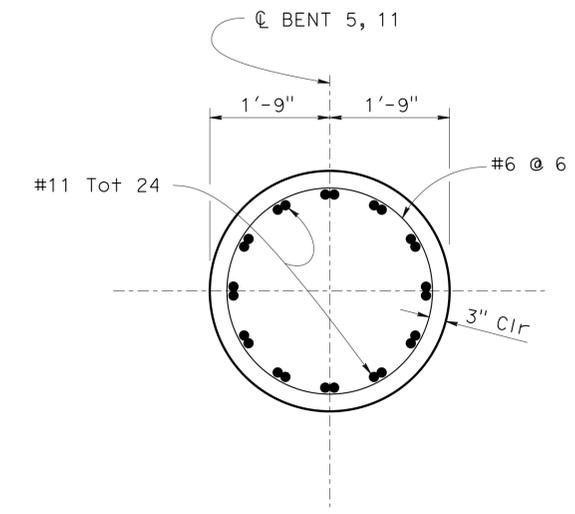
SECTION F-F
3/4" = 1'-0"



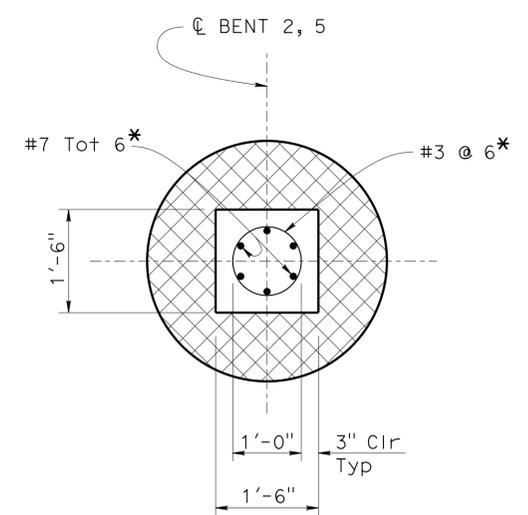
SECTION D-D
3/4" = 1'-0"



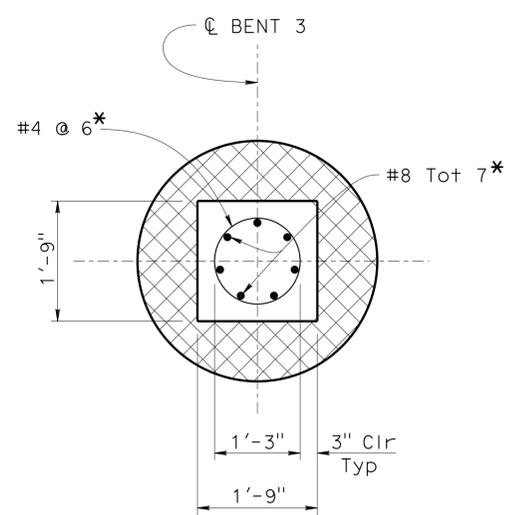
SECTION L-L
3/4" = 1'-0"



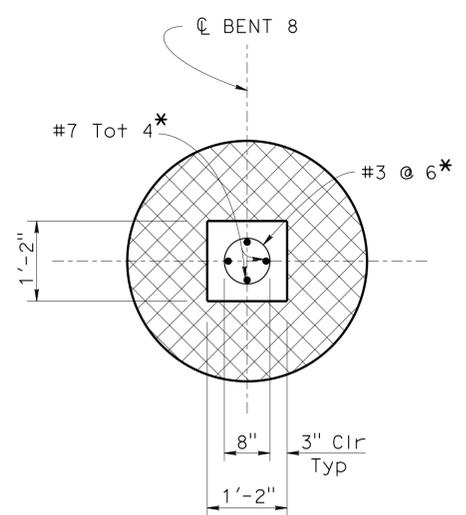
SECTION H-H
3/4" = 1'-0"



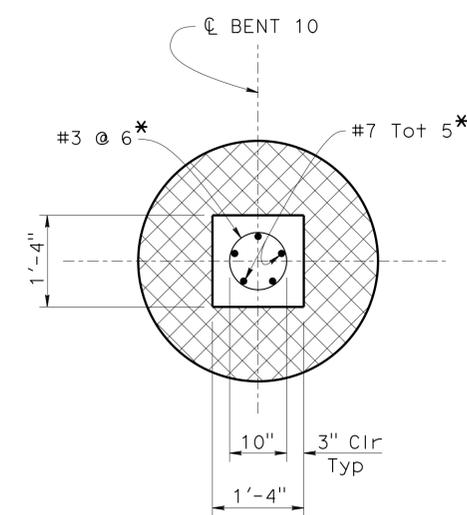
SECTION G-G
3/4" = 1'-0"



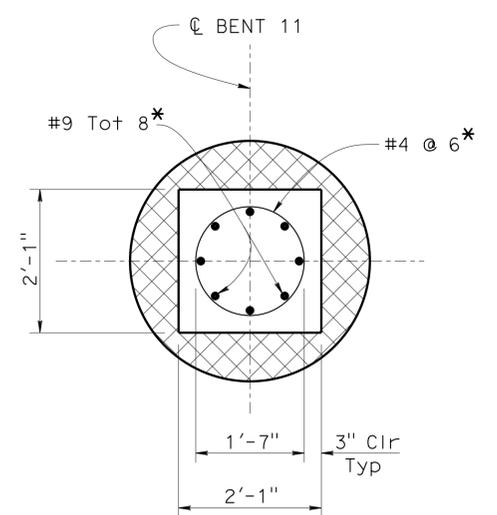
SECTION E-E
3/4" = 1'-0"



SECTION N-N
3/4" = 1'-0"



SECTION V-V
3/4" = 1'-0"



SECTION U-U
3/4" = 1'-0"

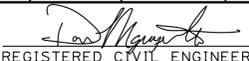
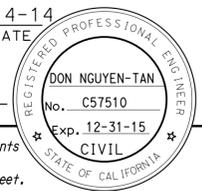
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

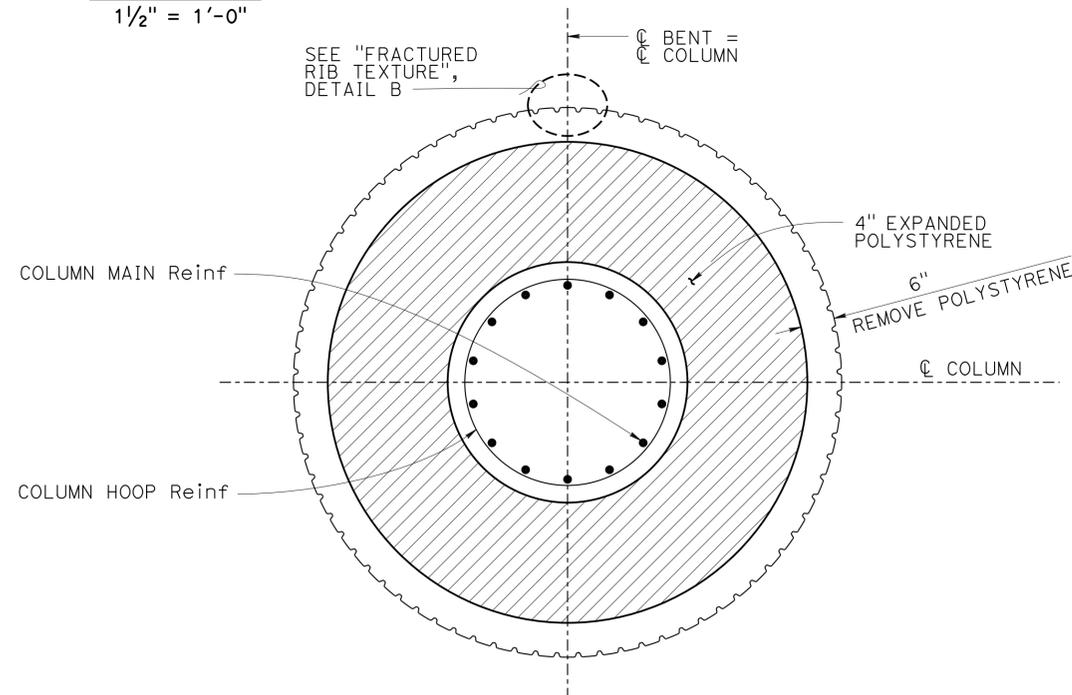
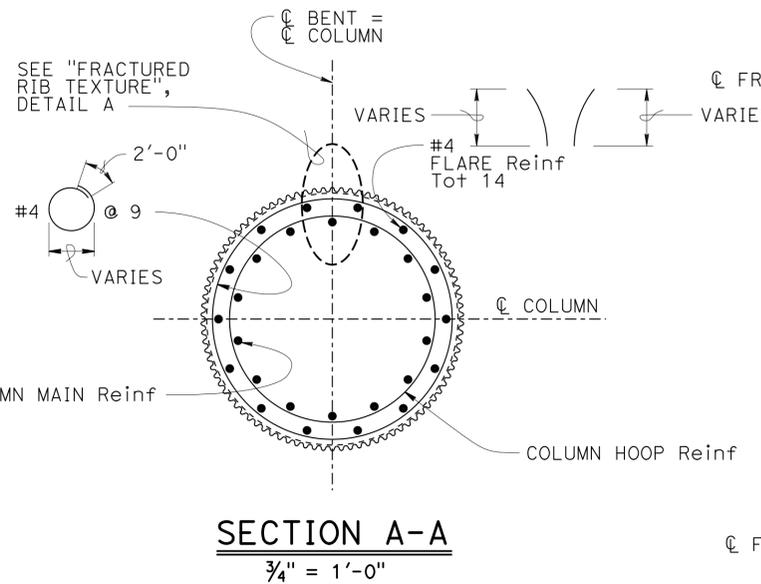
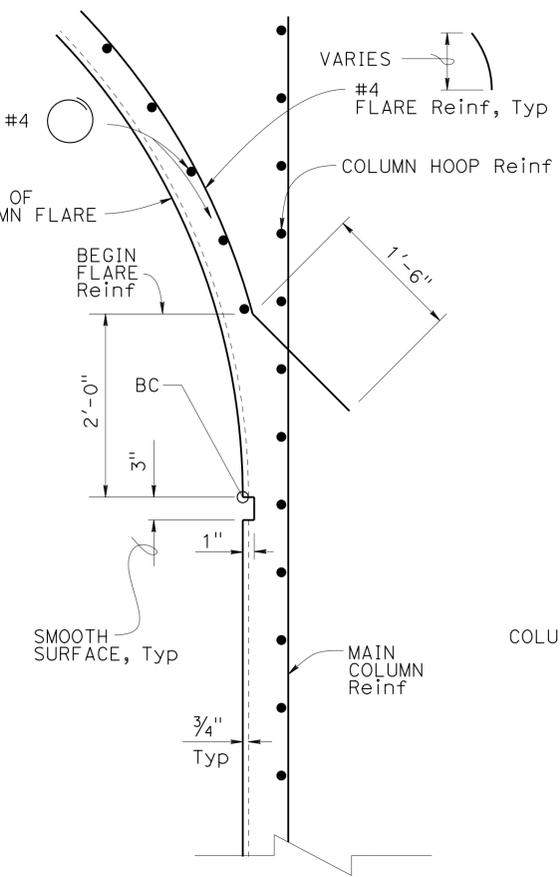
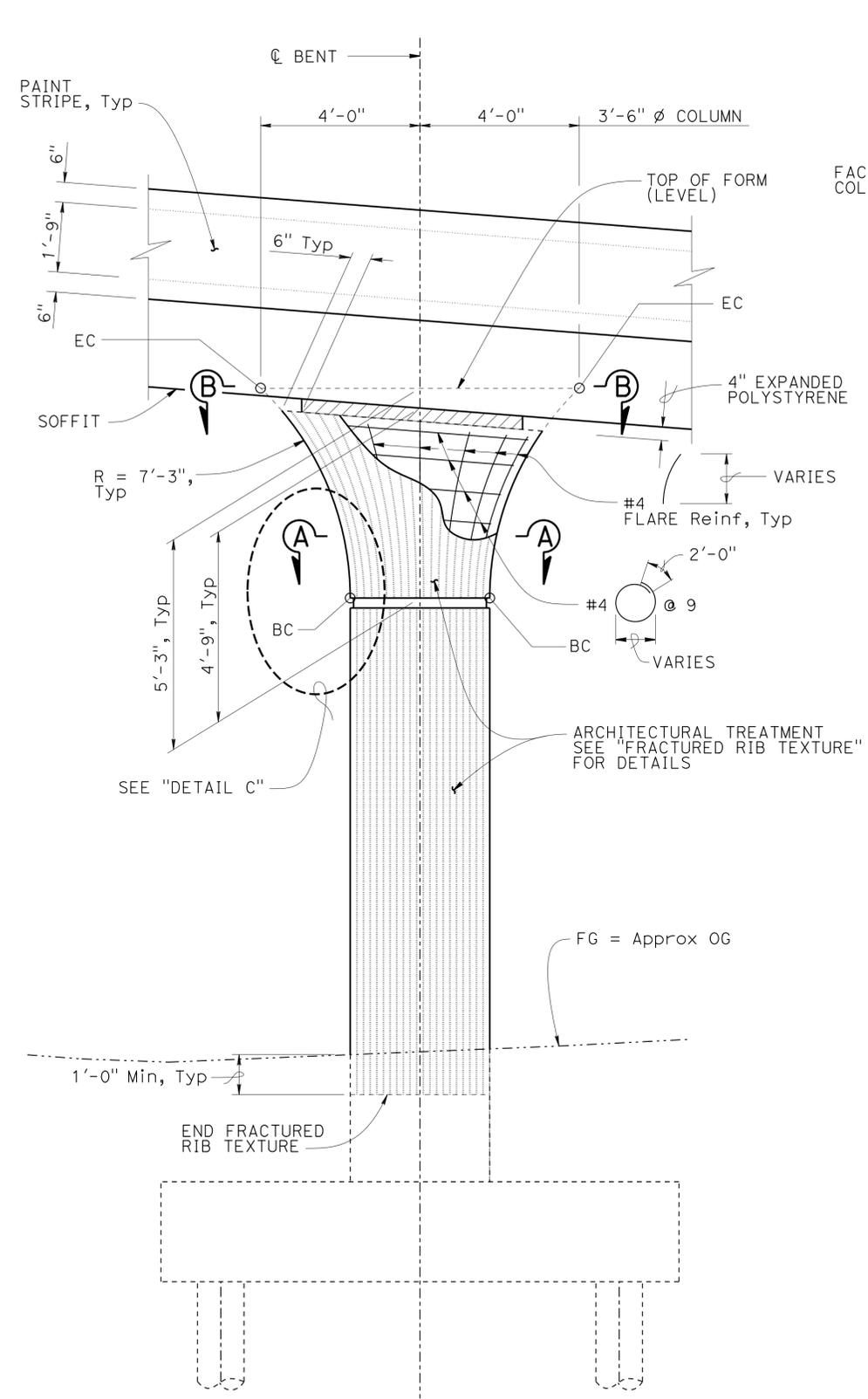
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

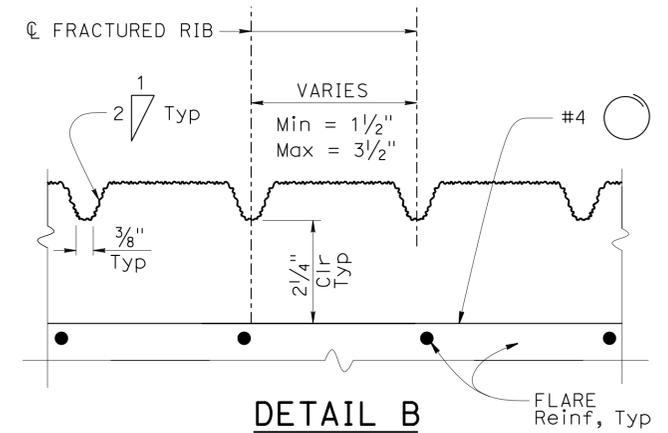
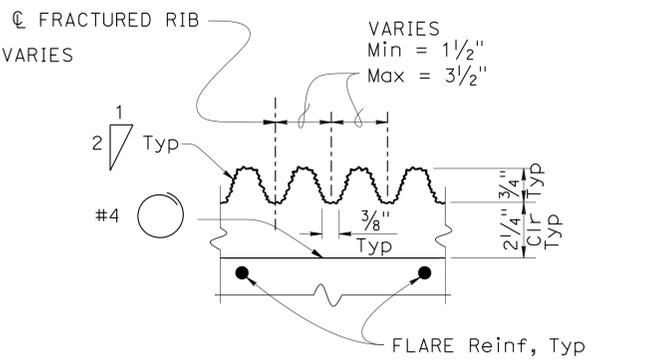
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

**SUNNY LANE POC
BENT DETAILS NO. 10**

| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 83 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 4-14-14 | DATE | |
| PLANS APPROVAL DATE 5-12-14 | | | | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |
|  | | | | | |



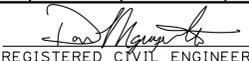
LEGEND:
 Denotes Expanded Polystyrene



FRACTURED RIB TEXTURE

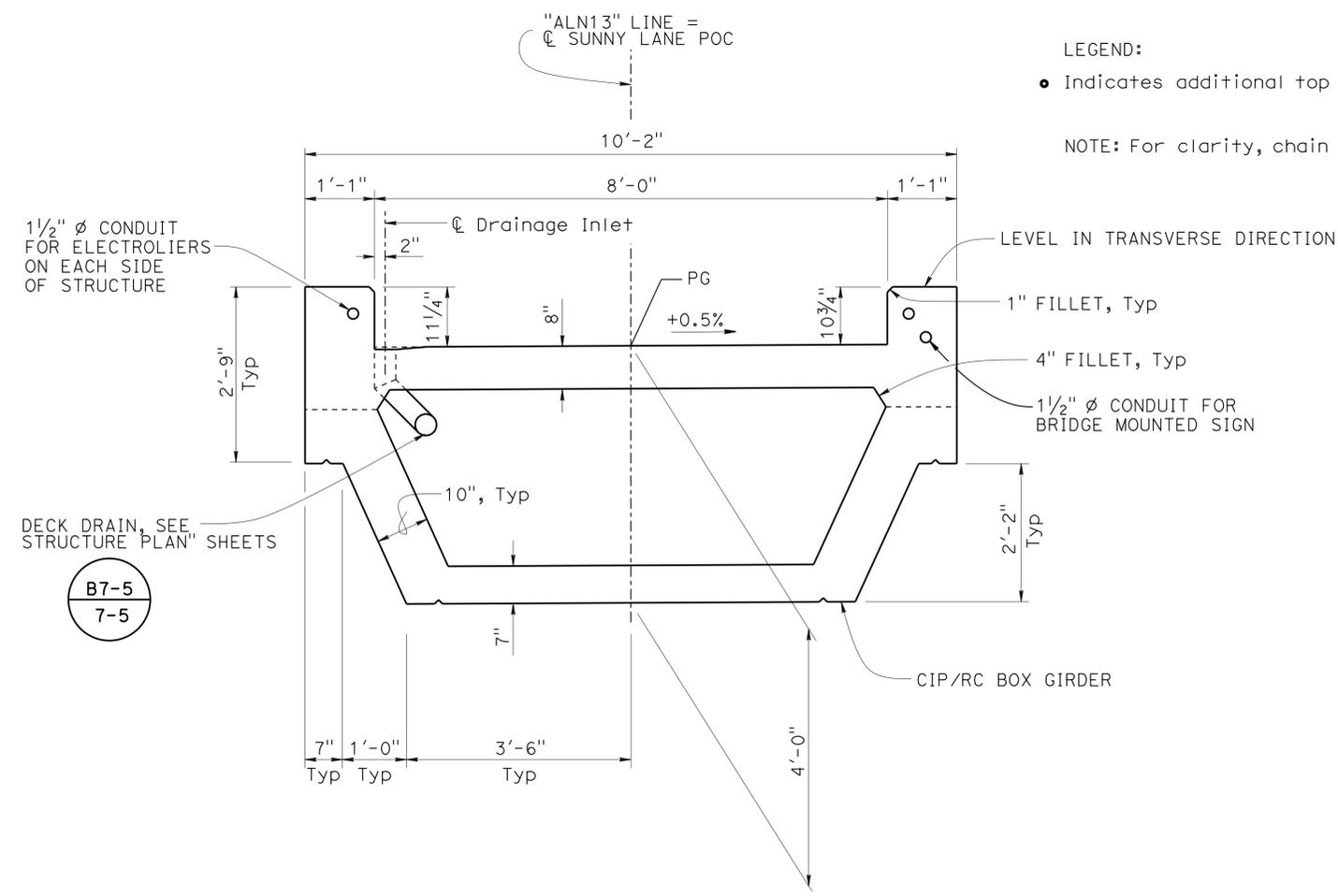
- NOTES:
1. For clarity, not all reinforcement shown.
 2. Flare Reinf concrete cover = 2".
 3. For clarity, Chain Link Railing not shown.

| | | | | | | |
|--|--|---------------------------|--|--|-------------------------|---|
| DESIGN BY David Alvarez | | CHECKED Hilario Tuazon | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. 50-0517 | SUNNY LANE POC BENT DETAILS NO. 11 |
| DETAILS BY David Elliott | | CHECKED Hilario Tuazon | | | POST MILE R 4.35 | |
| QUANTITIES BY Hilario Tuazon | | CHECKED Rachel Washington | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | UNIT: 3591 PROJECT NUMBER & PHASE: 0614000265-1 | CONTRACT NO.: 06-0H6414 | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
| | | | 0 1 2 3 | REVISION DATES | SHEET 29 | OF 41 |

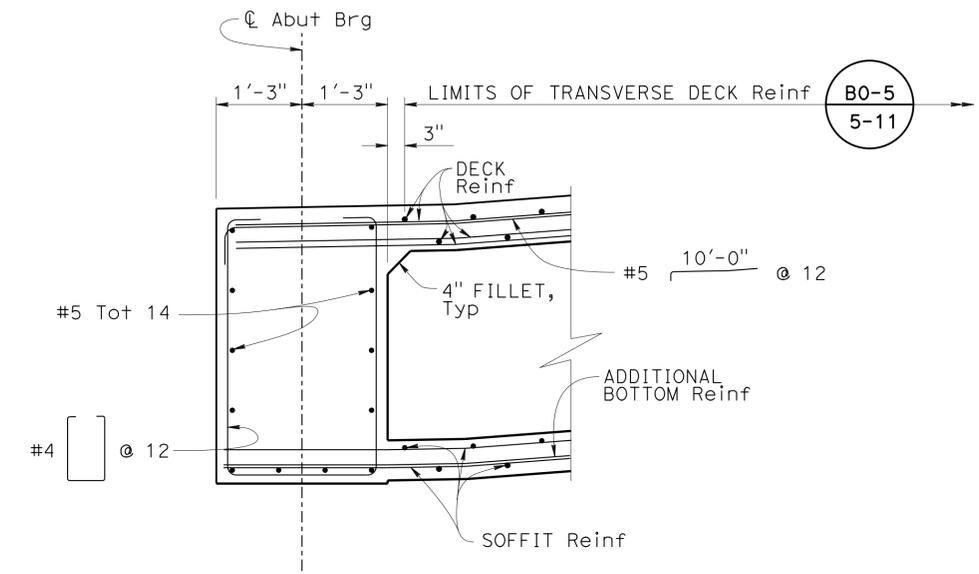
| | | | | | |
|--|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 84 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 4-14-14 | DATE | |
| PLANS APPROVAL DATE 5-12-14 | | |  | | |
| <small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small> | | | | | |

LEGEND:
 • Indicates additional top or bottom reinforcement, see "ADDITIONAL RENIFORCEMENT" sheets.

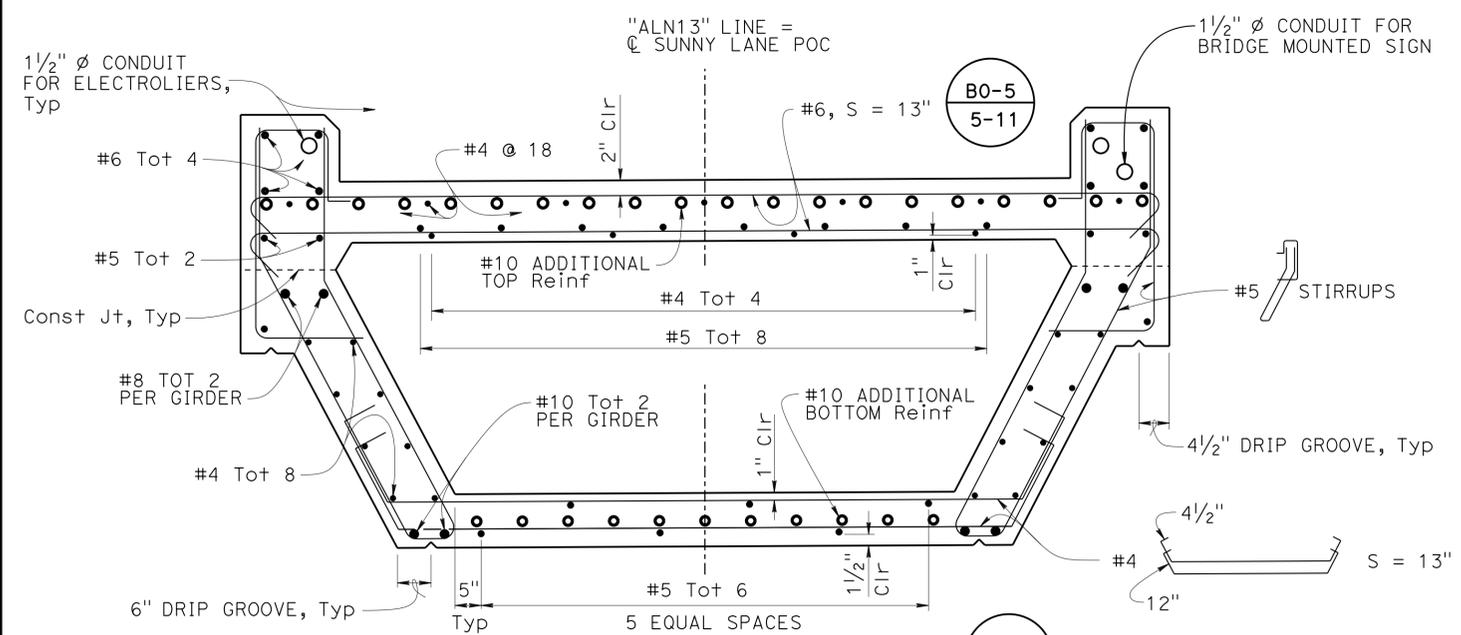
NOTE: For clarity, chain link railing and lighting pedestal not shown.



TYPICAL SECTION
 $\frac{3}{4}'' = 1'-0''$



DIAPHRAGM DETAILS
 $\frac{3}{4}'' = 1'-0''$



PART TYPICAL SECTION
 $1'' = 1'-0''$

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
TYPICAL SECTION

USERNAME => s115755 DATE PLOTTED => 25-AUG-2014 TIME PLOTTED => 14:57

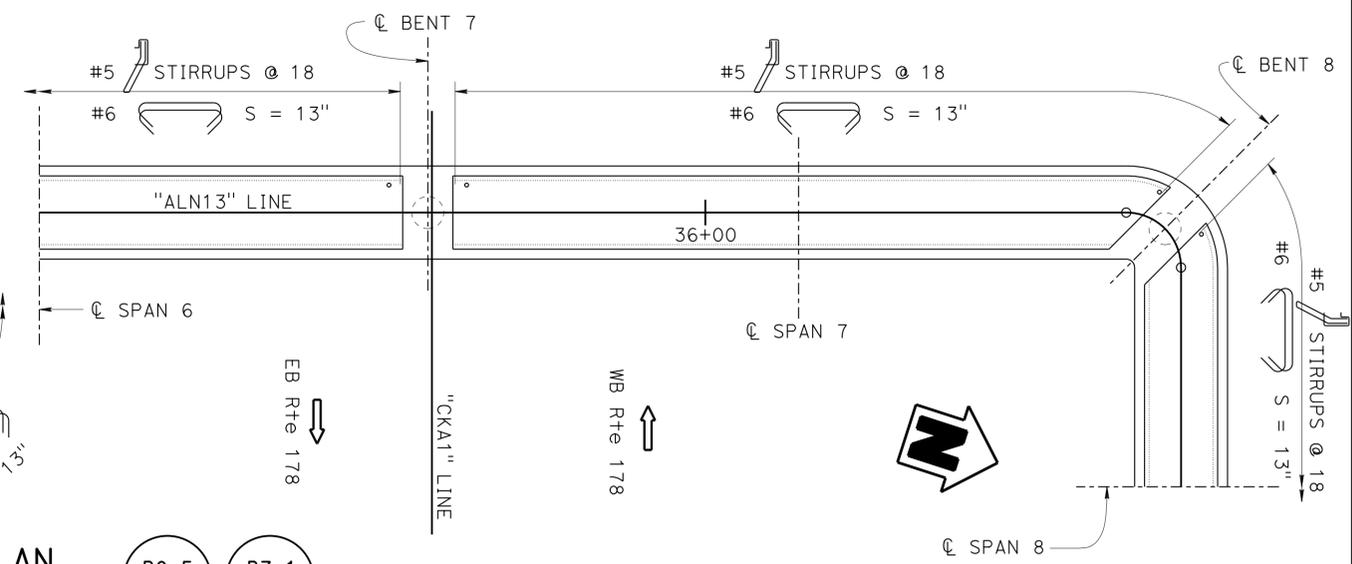
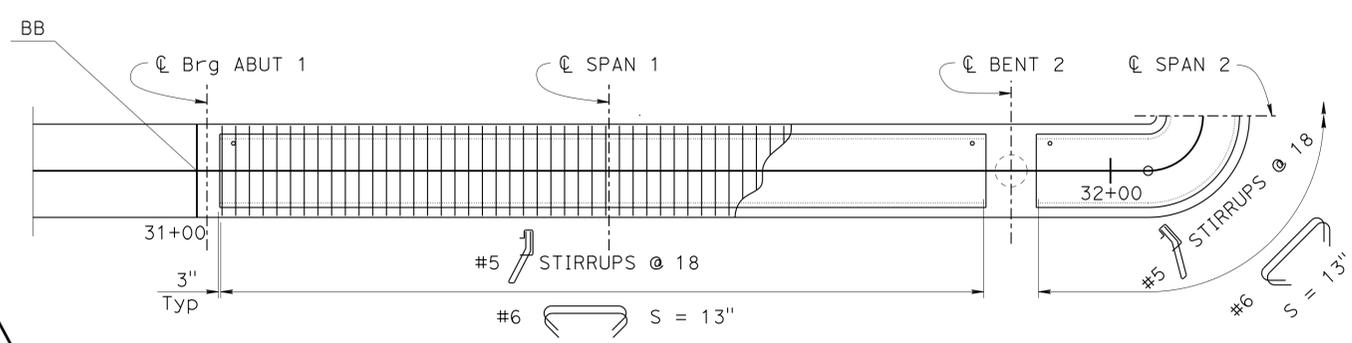
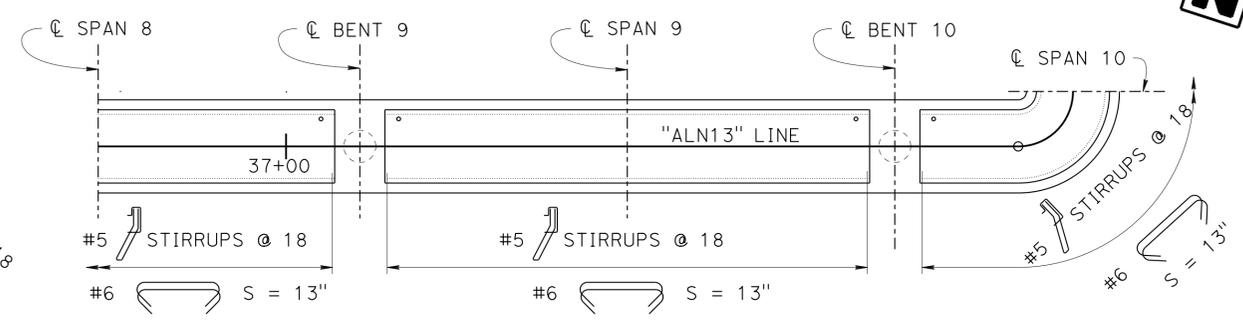
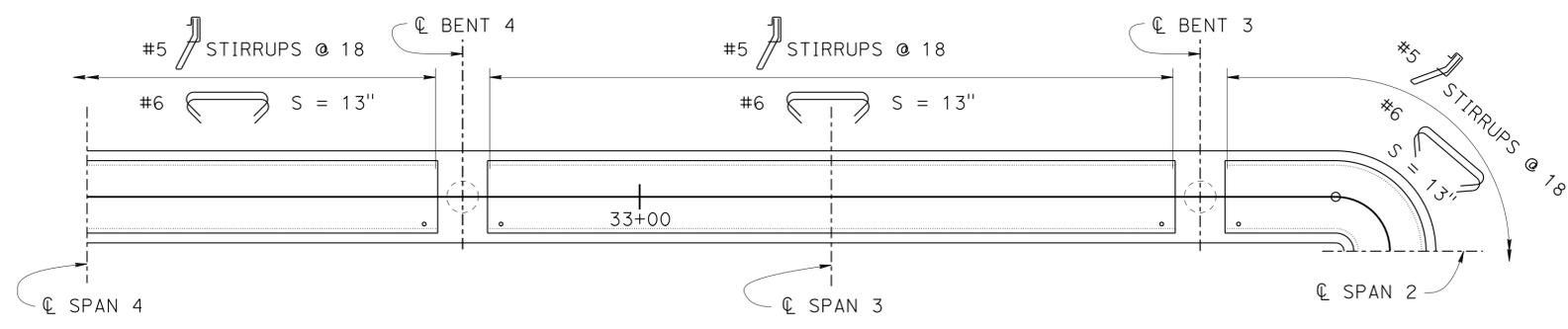
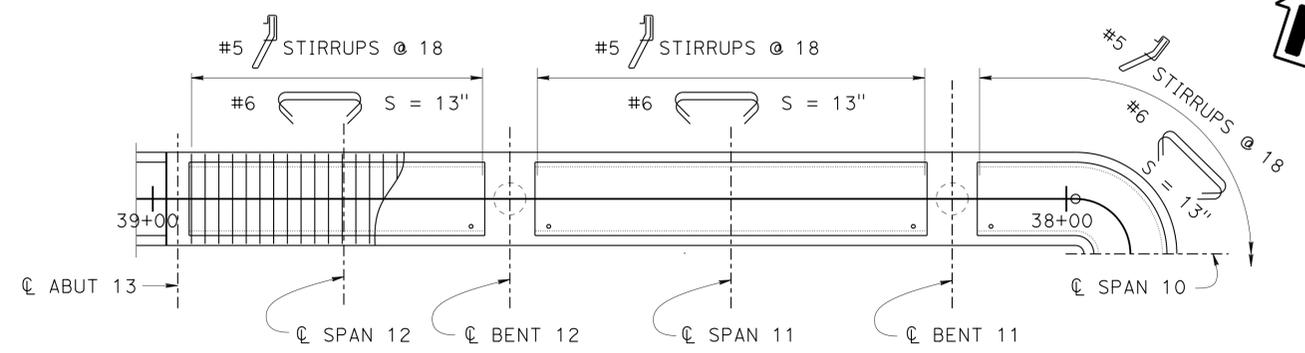
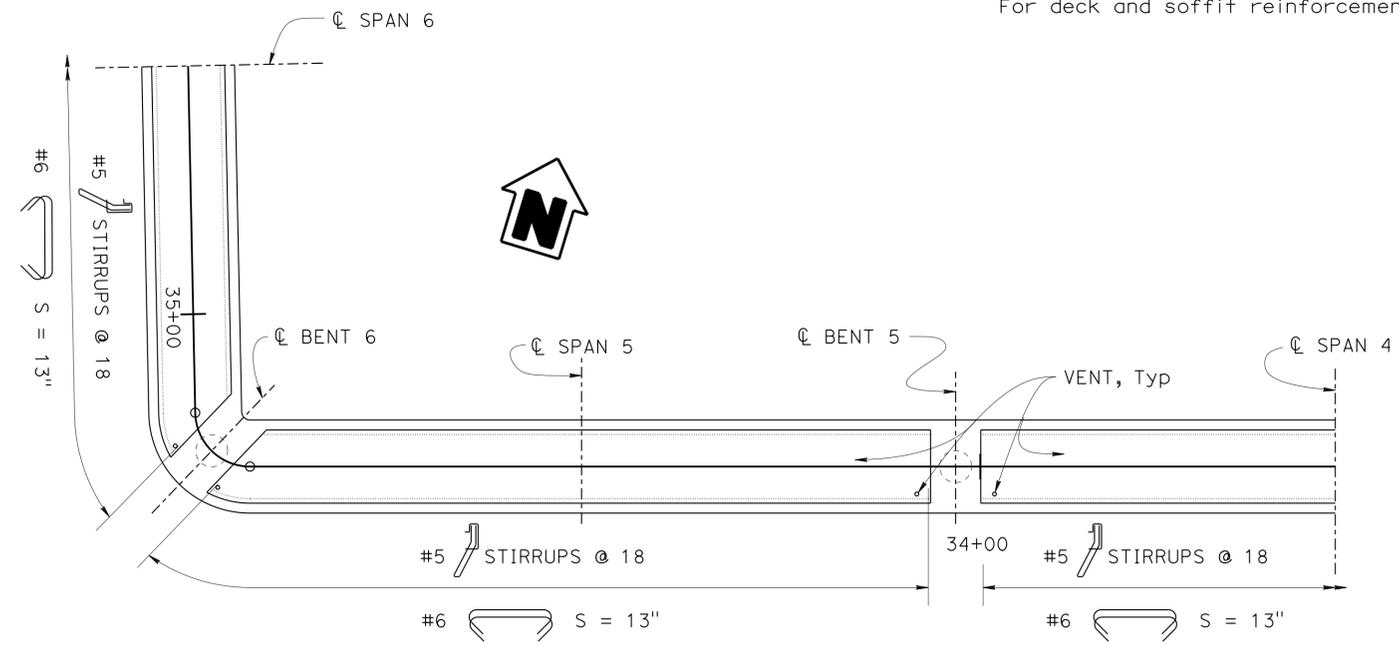
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 85 | 95 |

| | |
|---------------------------|---------|
| <i>Don Nguyen-Tan</i> | 4-14-14 |
| REGISTERED CIVIL ENGINEER | DATE |
| 5-12-14 | |
| PLANS APPROVAL DATE | |

| |
|----------------------------------|
| REGISTERED PROFESSIONAL ENGINEER |
| DON NGUYEN-TAN |
| No. C57510 |
| Exp. 12-31-15 |
| CIVIL |
| STATE OF CALIFORNIA |

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NOTE:
For deck and soffit reinforcement details in curved sections, see "BENT DETAILS NO. 11" sheet.



PLAN
1" = 5'

B0-5
5-11

B7-1
V-1

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 9

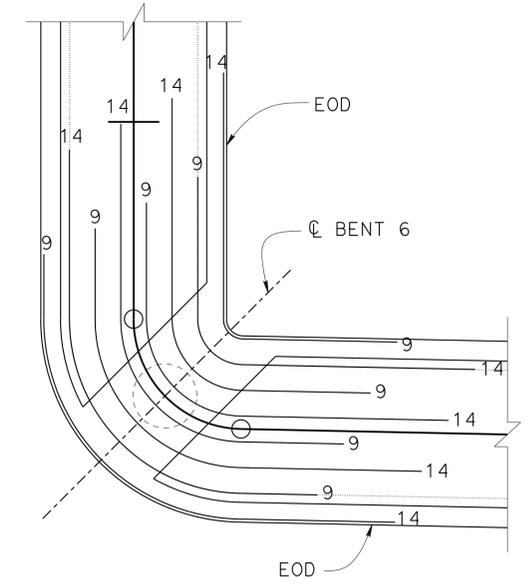
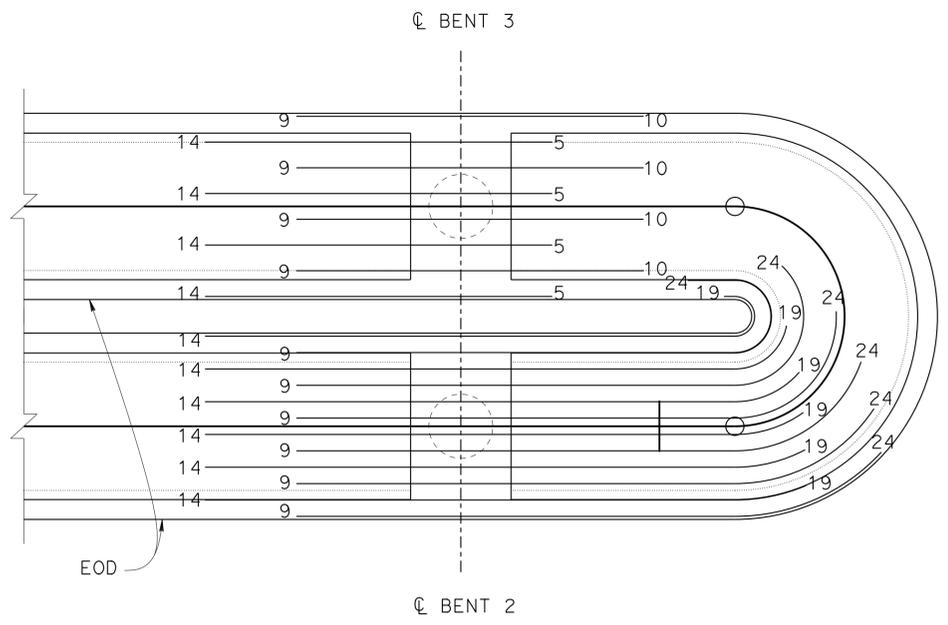
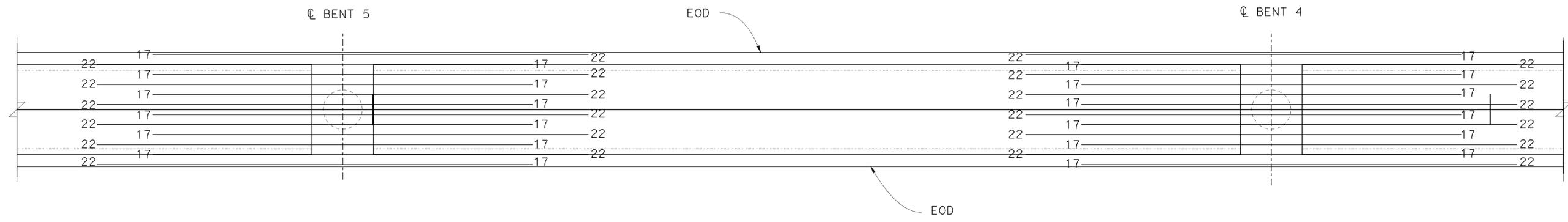
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
GIRDER LAYOUT

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 86 | 95 |

REGISTERED CIVIL ENGINEER DATE 4-14-14
 PLANS APPROVAL DATE 5-12-14
 REGISTERED PROFESSIONAL ENGINEER
 DON NGUYEN-TAN
 No. C57510
 Exp. 12-31-15
 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:
- All reinforcing bars shown on this sheet are size #11 unless otherwise noted.
 - Reinforcement shown on this sheet is in addition to that shown on "TYPICAL SECTION" sheet.
 - Numbers at ends of bars indicate distance to bar end from C Bent.
 - Space all bars evenly within limits shown.



PLAN - ADDITIONAL TOP REINFORCEMENT
1" = 5'

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

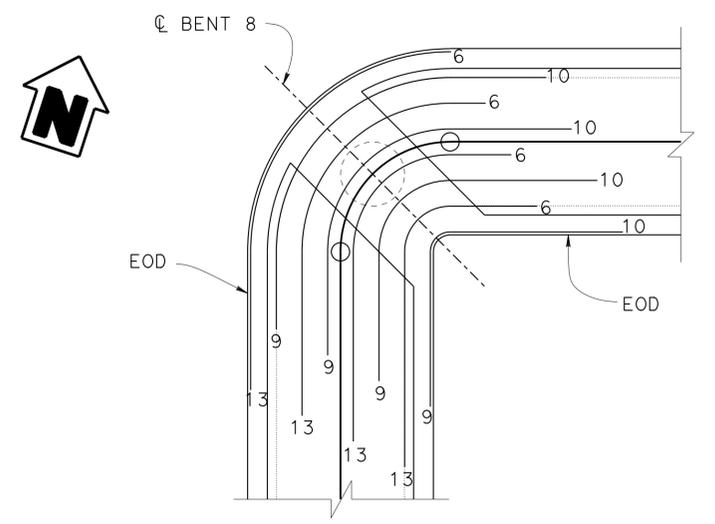
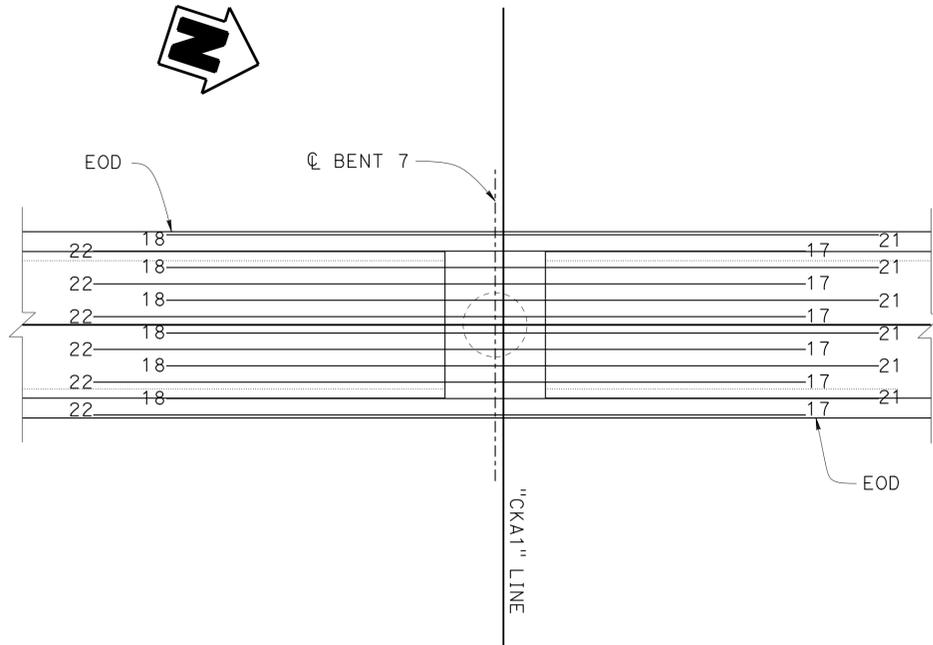
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 9

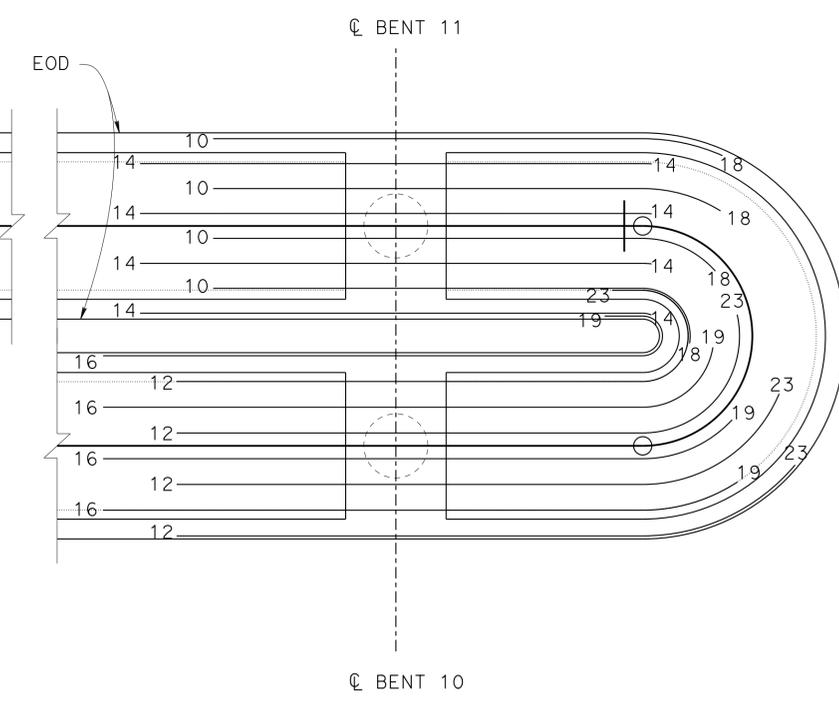
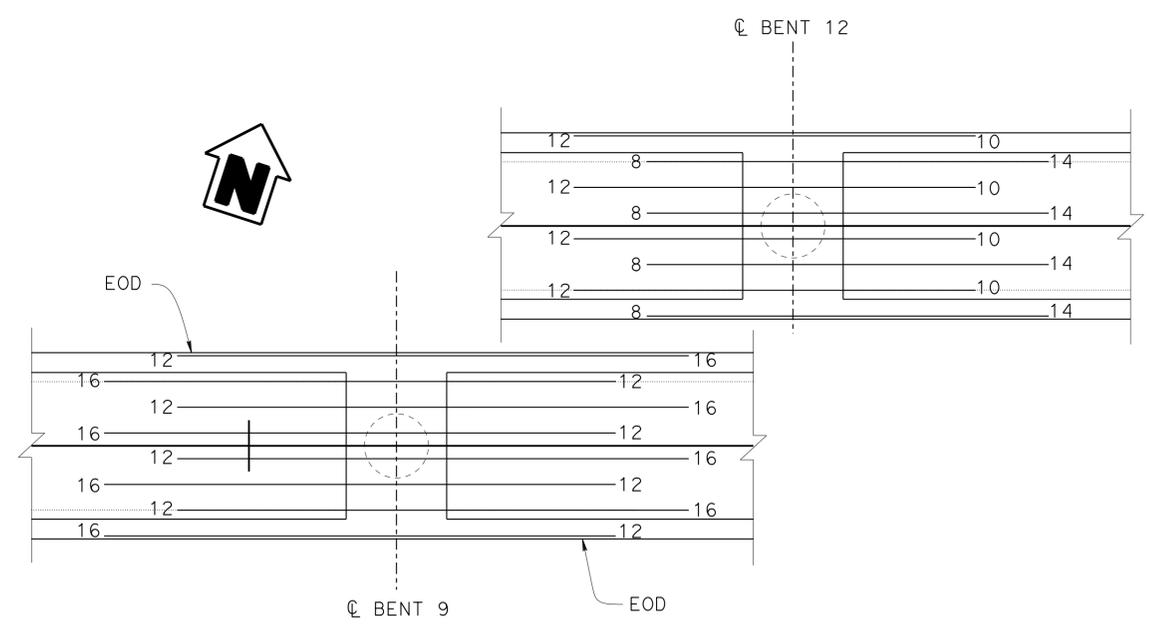
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
ADDITIONAL REINFORCEMENT NO. 1

| | | | | | |
|---|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 87 | 95 |
| | | | 4-14-14 | DATE | |
| | | | 5-12-14 | DATE | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | PLANS APPROVAL DATE | | |
| | | | REGISTERED PROFESSIONAL ENGINEER DON NGUYEN-TAN No. C57510 Exp. 12-31-15 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. All reinforcing bars shown on this sheet are size #11 unless otherwise noted
 2. Reinforcement shown on this sheet is in addition to that shown on "TYPICAL SECTION" sheet.
 3. Numbers at ends of bars indicate distance to bar end from C Bent.
 4. Space all bars evenly within limits shown.



PLAN - ADDITIONAL TOP REINFORCEMENT
1" = 5'

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 9

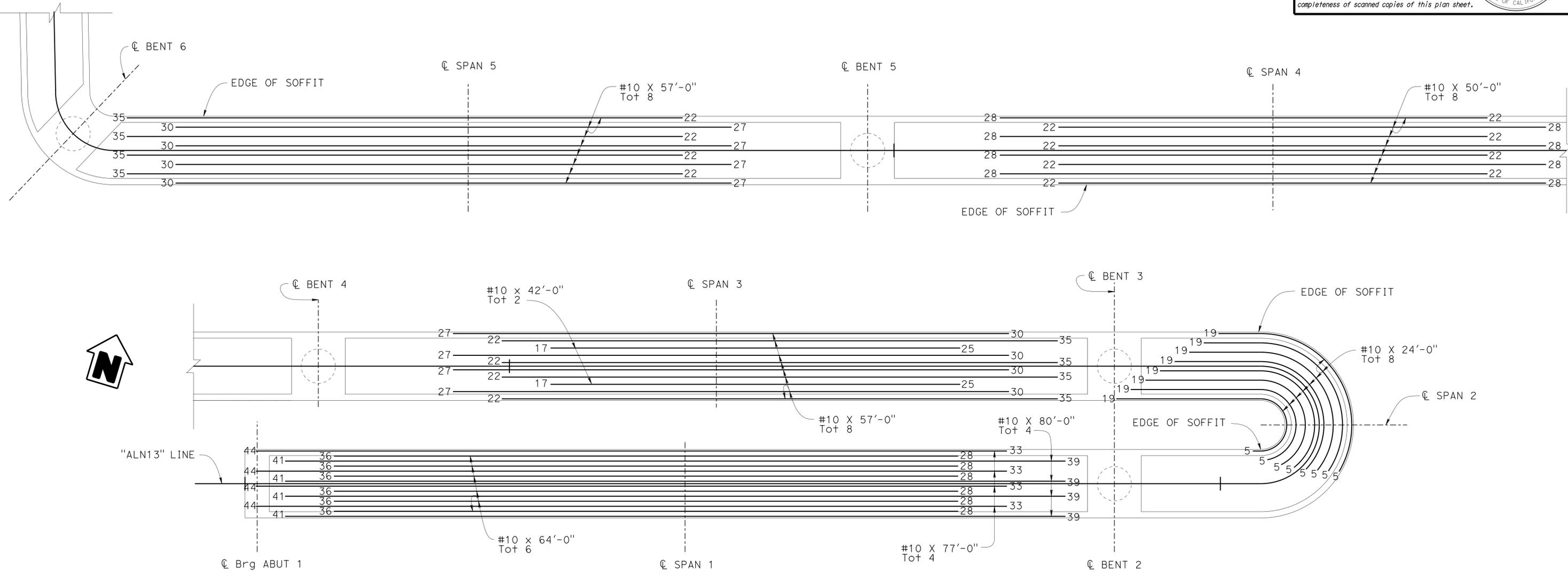
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
ADDITIONAL REINFORCEMENT NO. 2

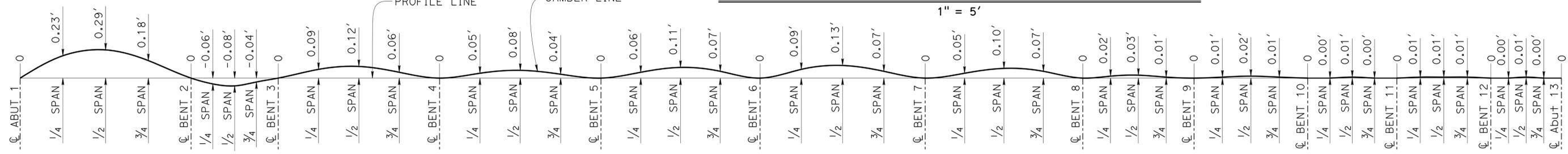
| | | | | | |
|---|--------|-------|----------------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 88 | 95 |
| | | | DATE | | |
| | | | 4-14-14 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | PLANS APPROVAL DATE | | |
| | | | 5-12-14 | | |
| | | | REGISTERED PROFESSIONAL ENGINEER | | |
| | | | DON NGUYEN-TAN | | |
| | | | No. C57510 | | |
| | | | Exp. 12-31-15 | | |
| | | | CIVIL | | |
| 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. All reinforcing bars shown on this sheet are size #10 unless otherwise noted.
2. Reinforcement shown on this sheet is in addition to that shown on "TYPICAL SECTION" sheet.
3. Numbers at ends of bars indicate distance to bar end from ϕ Span.
4. Space all bars evenly within limits shown.



PLAN - ADDITIONAL BOTTOM REINFORCEMENT



CAMBER DIAGRAM
NO SCALE

NOTE: Camber line does not include allowance for falsework settlement.

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 9

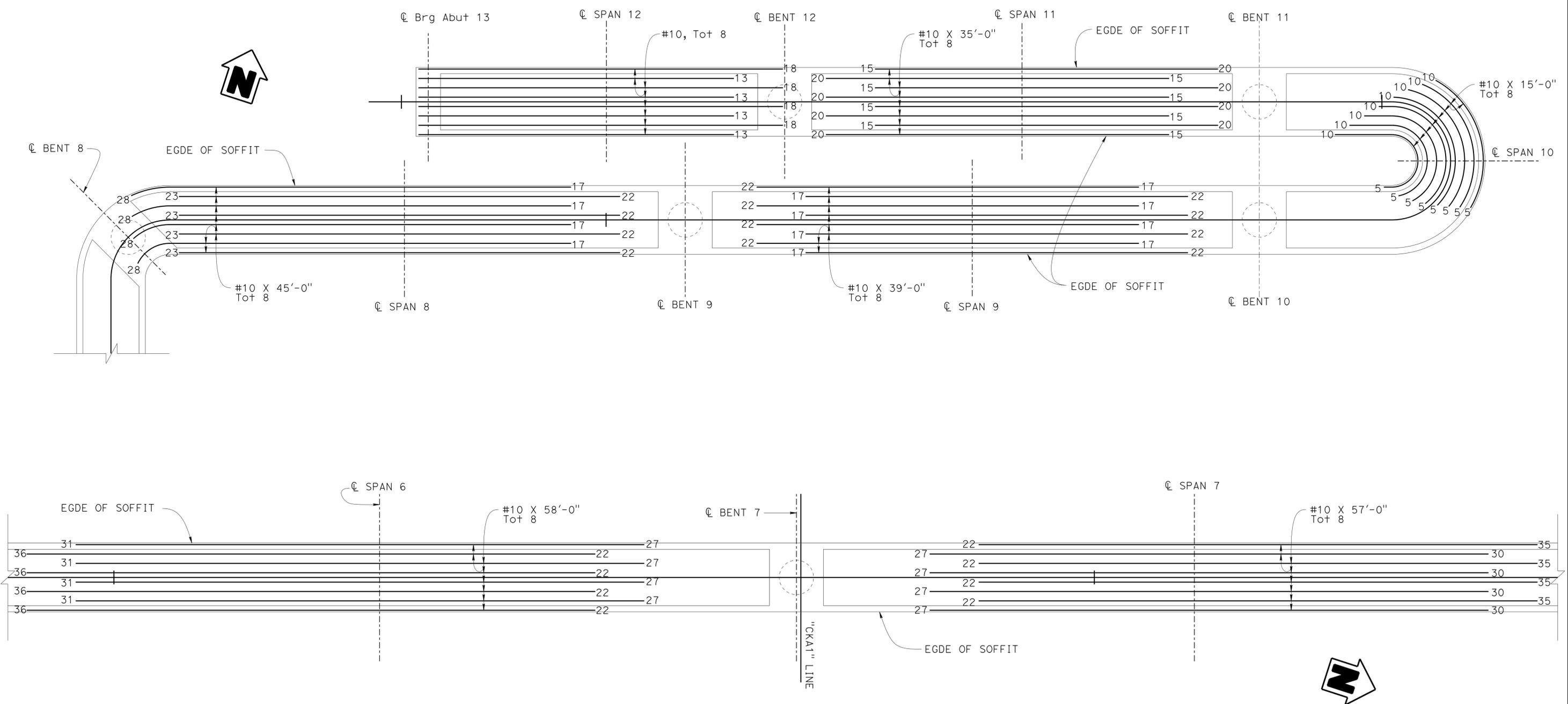
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
ADDITIONAL REINFORCEMENT NO. 3

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|--------------------------|-----------|--------------|
| 06 | Ker | 178 | R4.4 | 89 | 95 |

REGISTERED CIVIL ENGINEER *Don Nguyen-Tan* DATE 4-14-14
 PLANS APPROVAL DATE 5-12-14
 REGISTERED PROFESSIONAL ENGINEER
 DON NGUYEN-TAN
 No. C57510
 Exp. 12-31-15
 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:
- All reinforcing bars shown on this sheet are size #10 unless otherwise noted.
 - Reinforcement shown on this sheet is in addition to that shown on "TYPICAL SECTION" sheet.
 - Numbers at ends of bars indicate distance to bar end from \varnothing Span.
 - Space all bars evenly within limits shown.

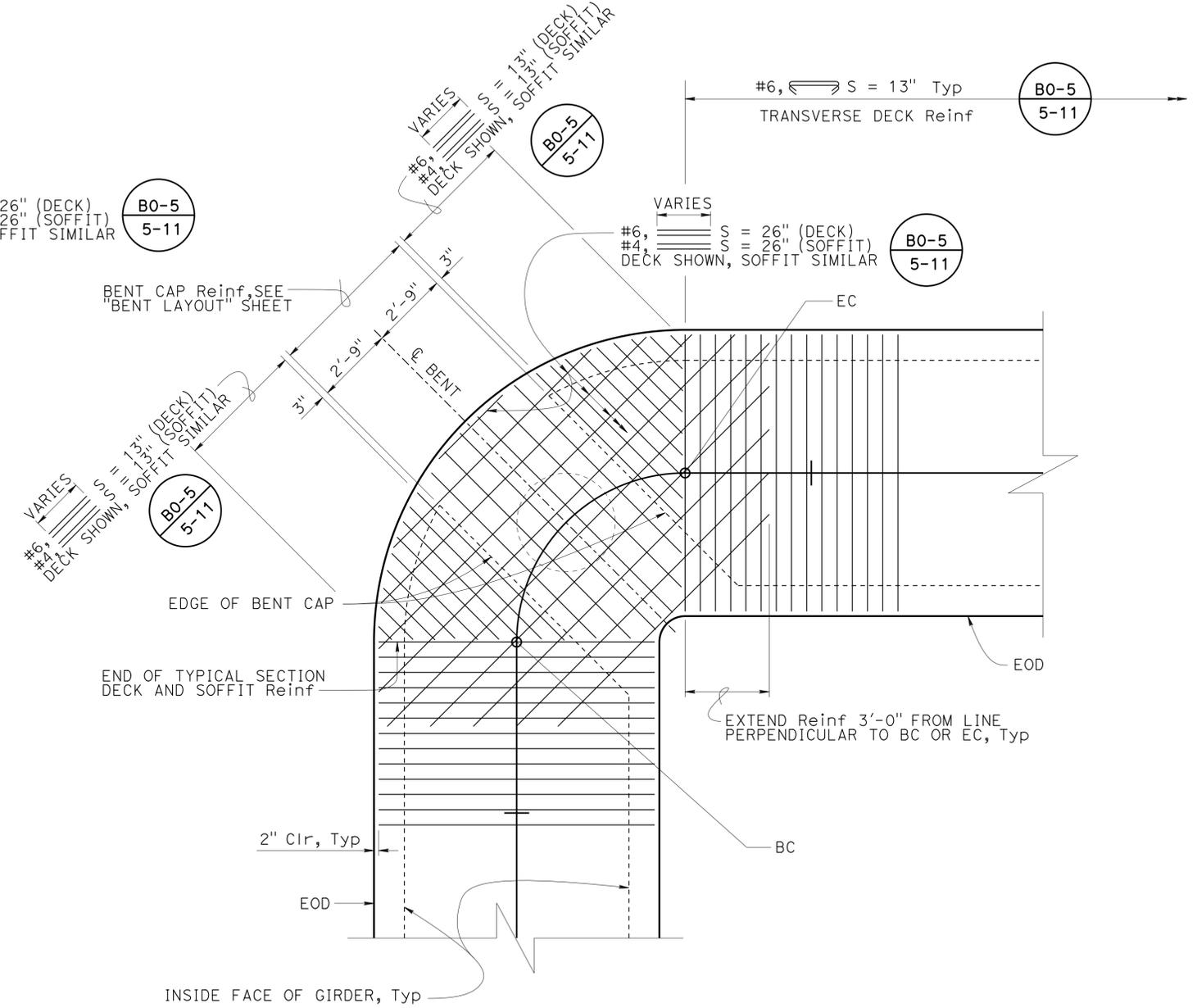
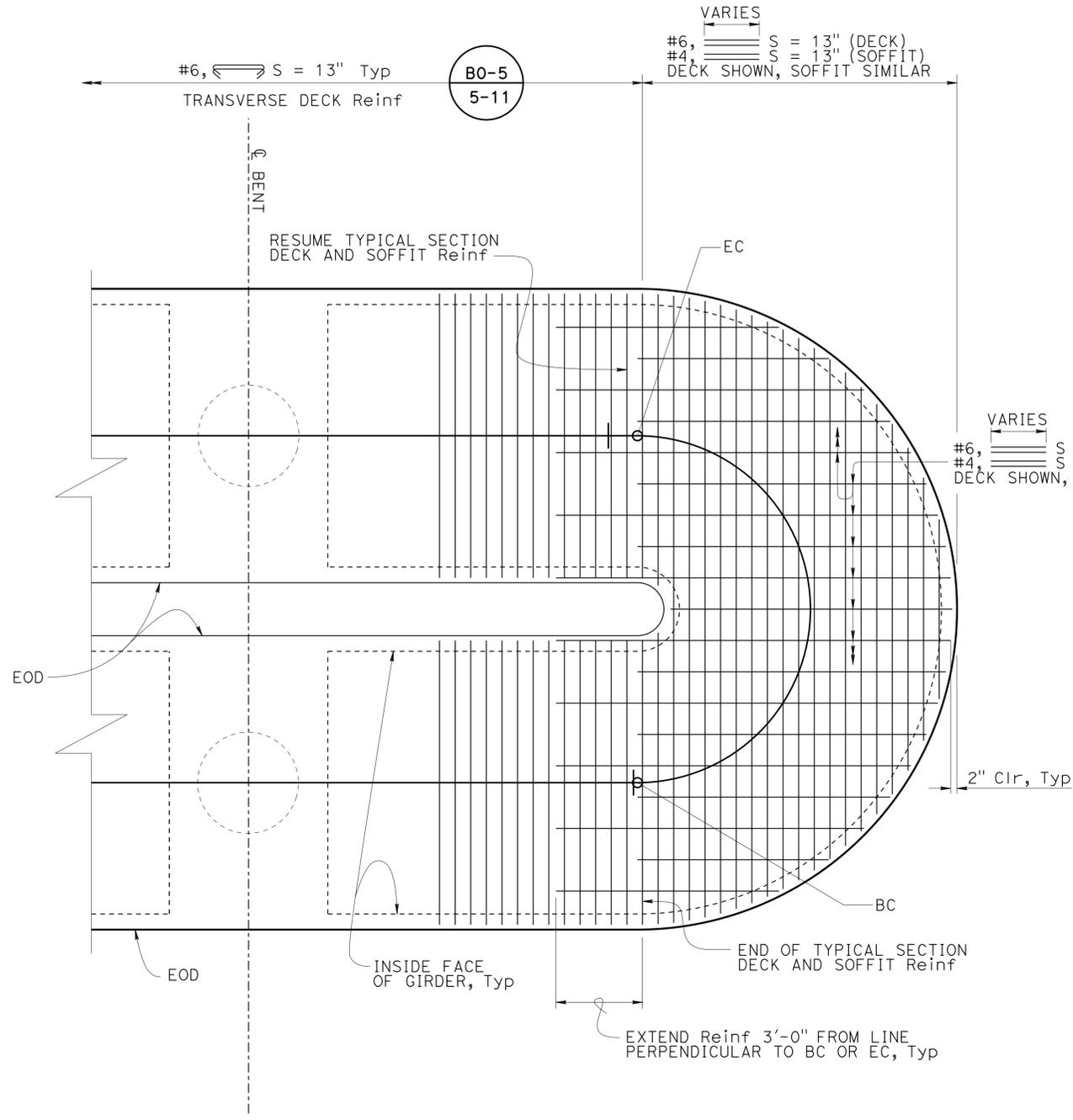


PLAN - ADDITIONAL BOTTOM REINFORCEMENT
1" = 5'

| | | | | | | | | | |
|--|------------|-------------------|---------------------------|---|---|--------------------------------------|---------|--|----------------|
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | DESIGN | BY David Alvarez | CHECKED Hilario Tuazon | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 9 | BRIDGE NO. | 50-0517 | SUNNY LANE POC ADDITIONAL REINFORCEMENT NO. 4 | |
| | DETAILS | BY David Elliott | CHECKED Hilario Tuazon | | | POST MILE | R 4.35 | | |
| | QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington | | | | | | |
| ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | | | | UNIT: 3591 | PROJECT NUMBER & PHASE: 0614000265-1 | | CONTRACT NO.: 06-0H6414 | |
| DISREGARD PRINTS BEARING EARLIER REVISION DATES | | | | | | | | REVISION DATES | SHEET 35 OF 41 |

| | | | | | |
|---|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 90 | 95 |
| | | | DATE | 4-14-14 | |
| | | | PLANS APPROVAL DATE | 5-12-14 | |
| REGISTERED CIVIL ENGINEER DON NGUYEN-TAN No. C57510 Exp. 12-31-15 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. Replace typical deck and soffit transverse and longitudinal reinforcement with deck and soffit reinforcement details at curve.
 2. With the exception of bent cap reinforcement provide curve reinforcement at Abutment 13 similarly.



CURVES BETWEEN BENT 2 & 3 AND 10 & 11

CURVES AT BENTS 6 AND 8

DECK AND SOFFIT REINFORCEMENT DETAILS AT CURVES

3/8" = 1'-0"

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 9

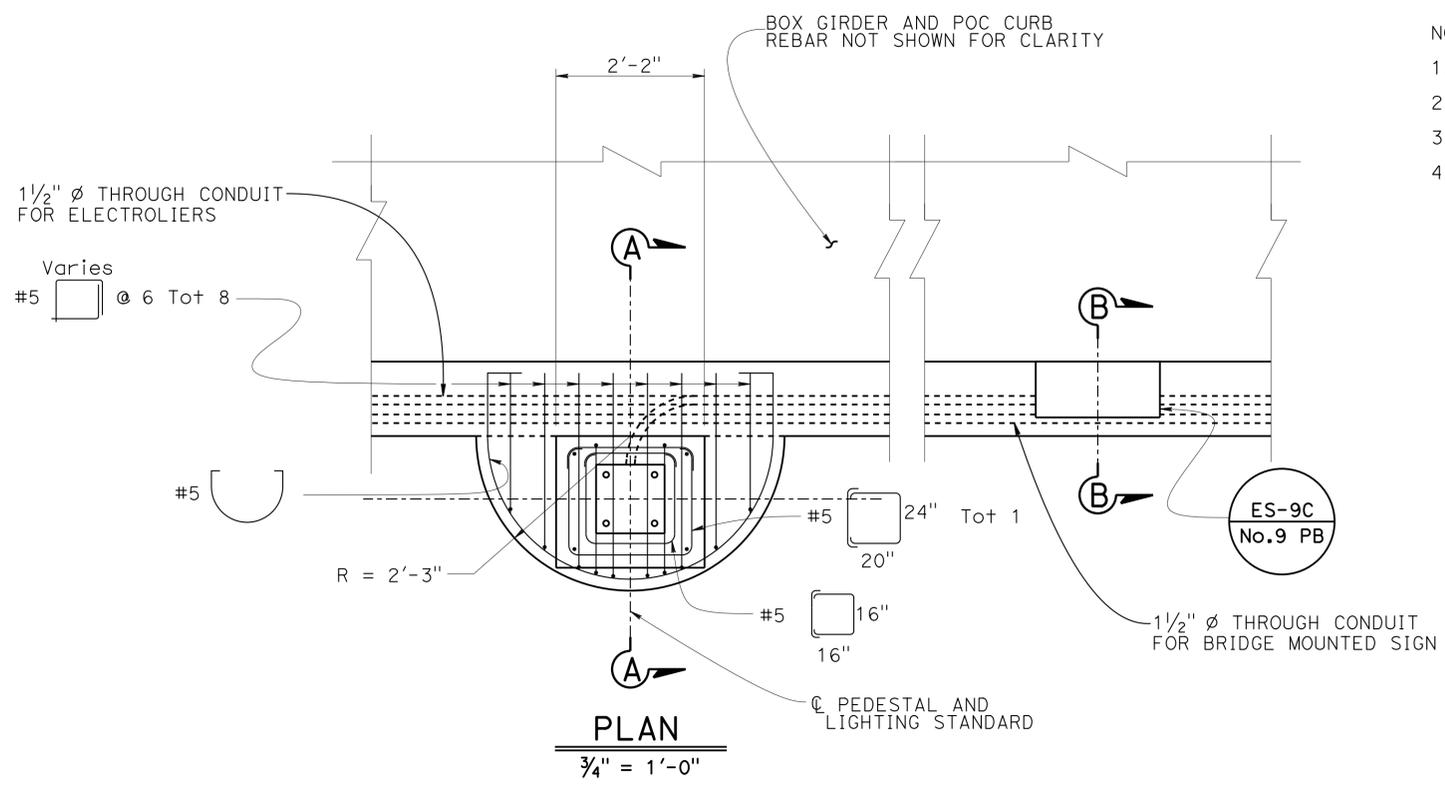
| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

SUNNY LANE POC
ADDITIONAL REINFORCEMENT NO. 5

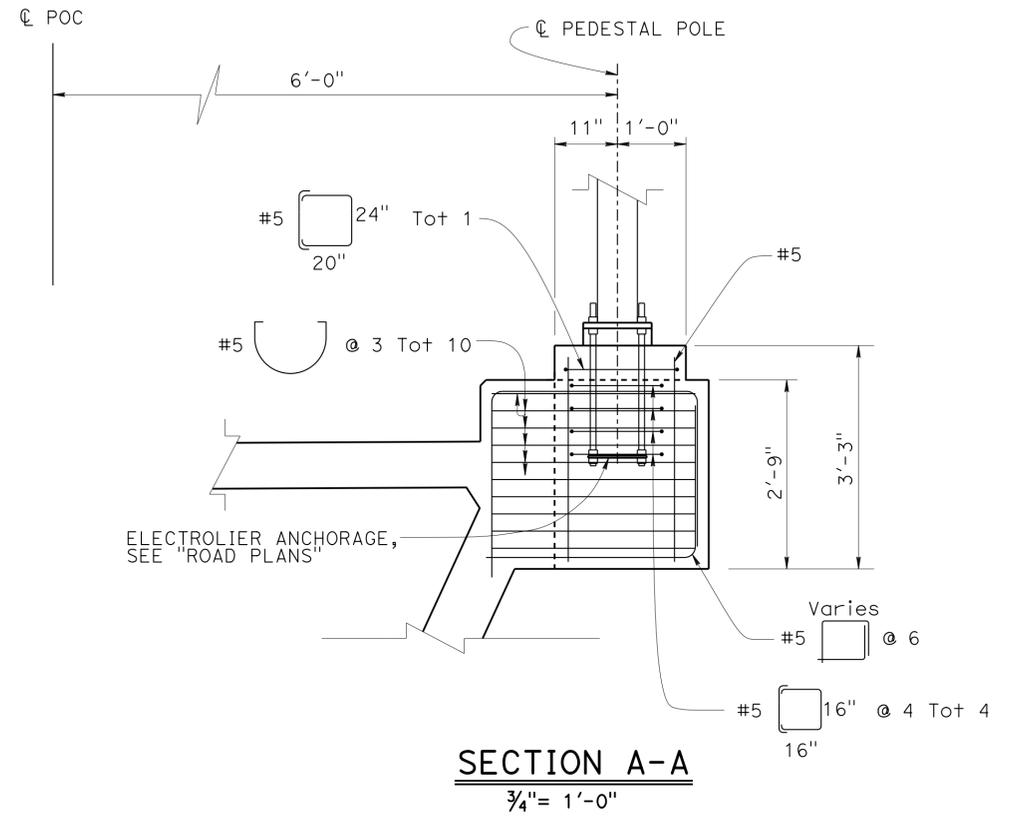
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|--|--------|-------|----------------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 91 | 95 |
| | | | DATE | | |
| | | | 4-14-14 | | |
| | | | REGISTERED CIVIL ENGINEER | | |
| | | | PLANS APPROVAL DATE | | |
| | | | 5-12-14 | | |
| | | | REGISTERED PROFESSIONAL ENGINEER | | |
| | | | DON NGUYEN-TAN | | |
| | | | No. C57510 | | |
| | | | Exp. 12-31-15 | | |
| | | | CIVIL | | |
| <small>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.</small> | | | | | |

NOTES:

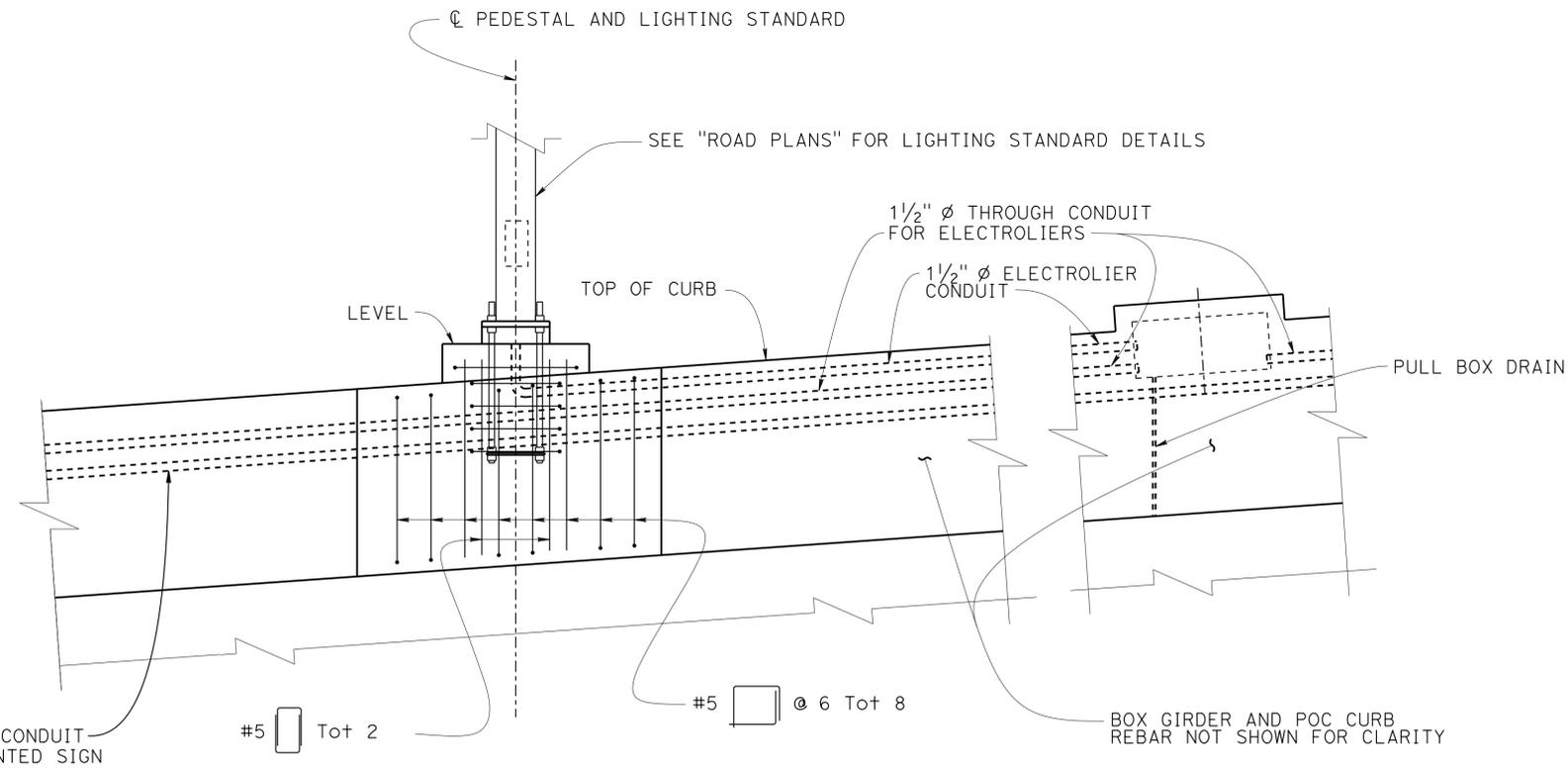
1. Pedestal shall have a minimum of 2" concrete cover over rebar.
2. For clarity, curb-mounted fence not shown.
3. For clarity, box girder and POC curb reinforcement not shown.
4. Conduits for electroliers and conduits for bridge mounted signs must not share pull boxes.



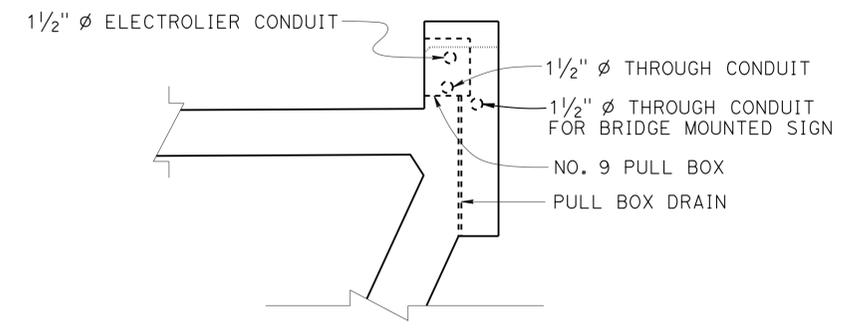
PLAN
3/4" = 1'-0"



SECTION A-A
3/4" = 1'-0"



ELEVATION
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"

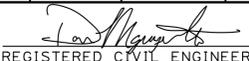
| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

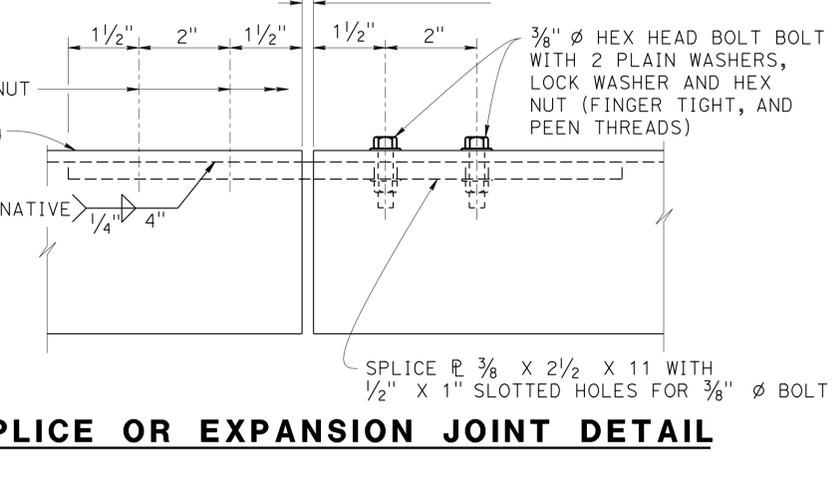
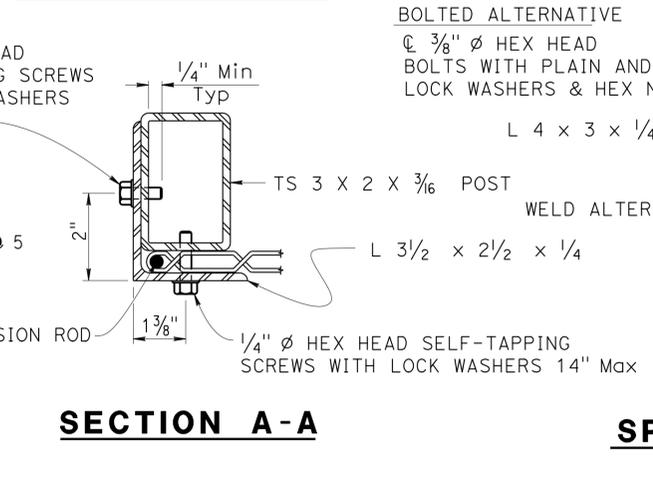
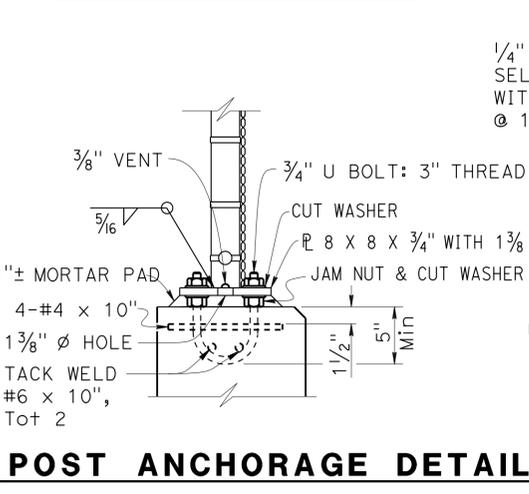
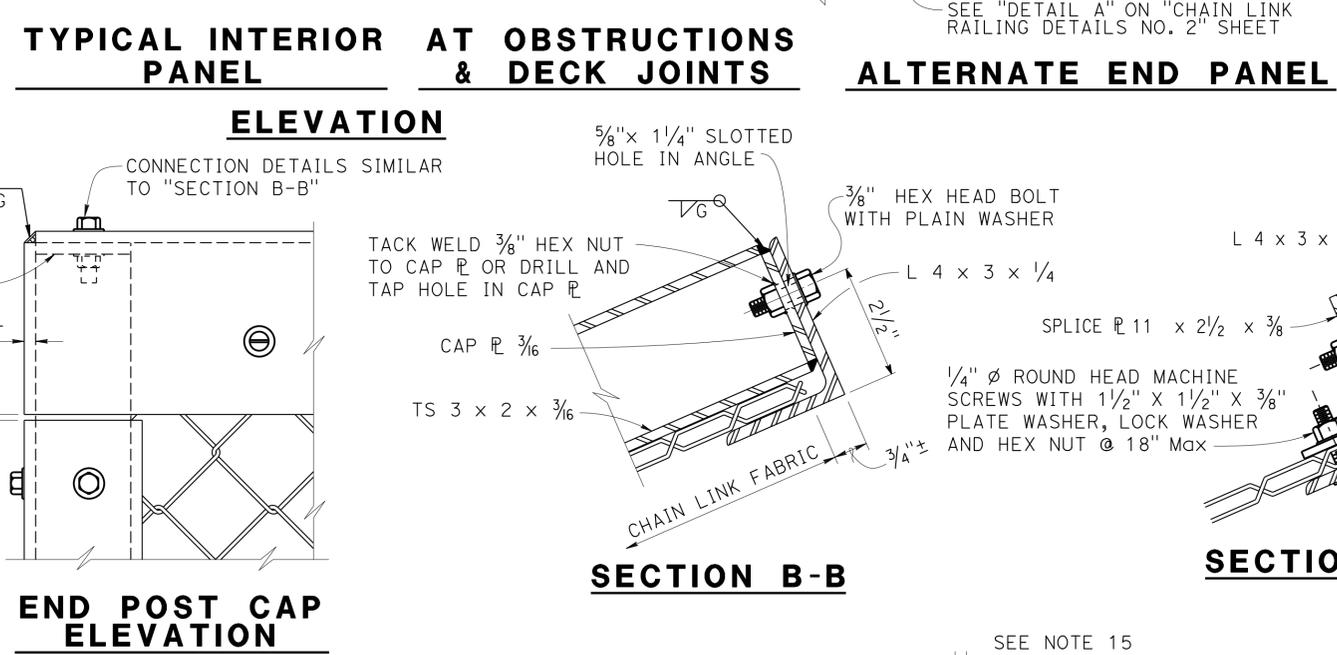
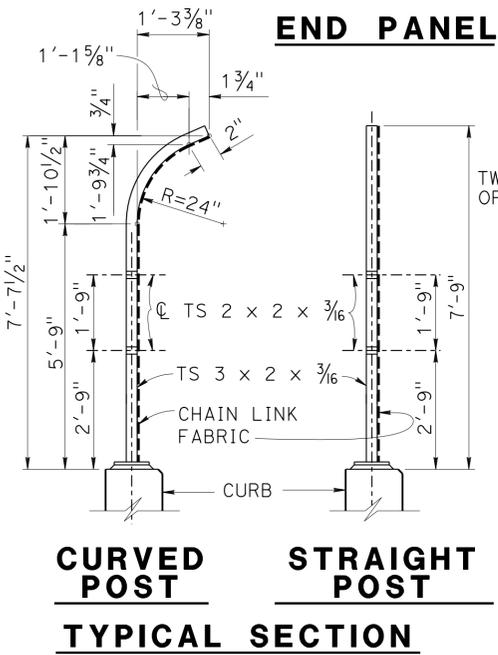
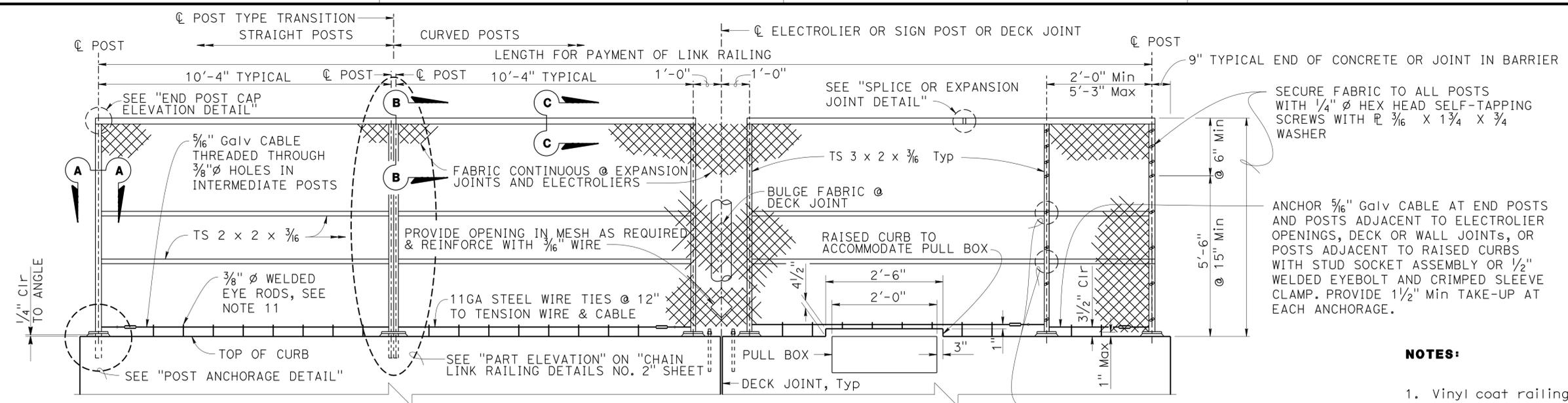
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

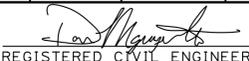
SUNNY LANE POC LIGHTING PEDESTAL DETAILS

| | | | | | |
|---|--------|-------|---|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 92 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 4-14-14 | DATE | |
| 5-12-14 PLANS APPROVAL DATE | | |  | | |
| The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet. | | | | | |

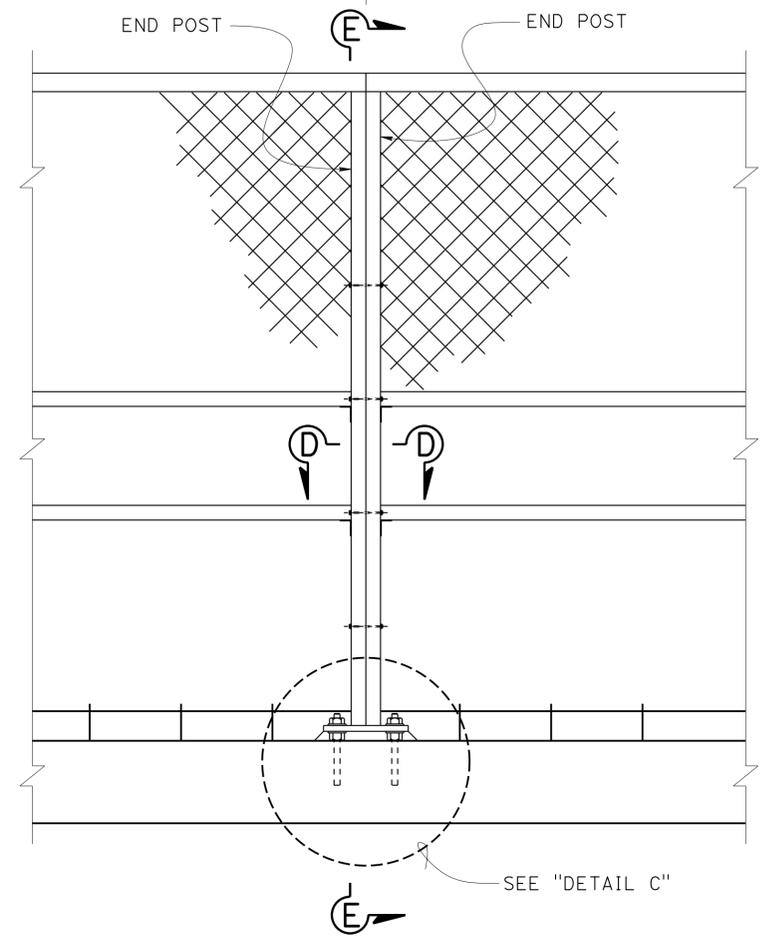


- NOTES:**
- Vinyl coat railing assembly and chain link fabric, black, after fabrication.
 - Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electroliers, and other rail discontinuities.
 - Except for posts adjacent to electroliers, install straight posts and straight portions of curved posts normal to bridge profile grade. At electroliers install posts vertical.
 - Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves and grade breaks.
 - When railing is on slope, place fabric parallel to the slope.
 - Alternative details may be submitted for Engineer's approval.
 - For details and reinforcement not shown, see "TYPICAL SECTION" sheet.
 - See "STRUCTURE PLAN" sheets for limits of Chain Link Railing.
 - Provide thimbles at all cable loops.
 - Chain link fabric to be 96" wide with 1" mesh and with knuckled selvage top and bottom.
 - When railing is placed on a horizontal alignment with a radius of 150'-0" or less, thread 5/16" cable through 3/8" x welded eye embedded rods 4" into the top of the concrete curb and equally spaced to limit the middle ordinate distance between the 5/16" cable and the curve to 1" max.
 - Holes in posts for 5/16" cable and its anchorages may be field drilled and painted with zinc rich paint.
 - For fencing panels at locations containing pull boxes, adjust location of 5/16" cable and height of 3/8" diameter welded eye rods.
 - Bend horizontal components to conform to curve.
 - At expansion joint, provide gap dimension equal to gap for deck joint. Increase slotted hole length and splice length accordingly.

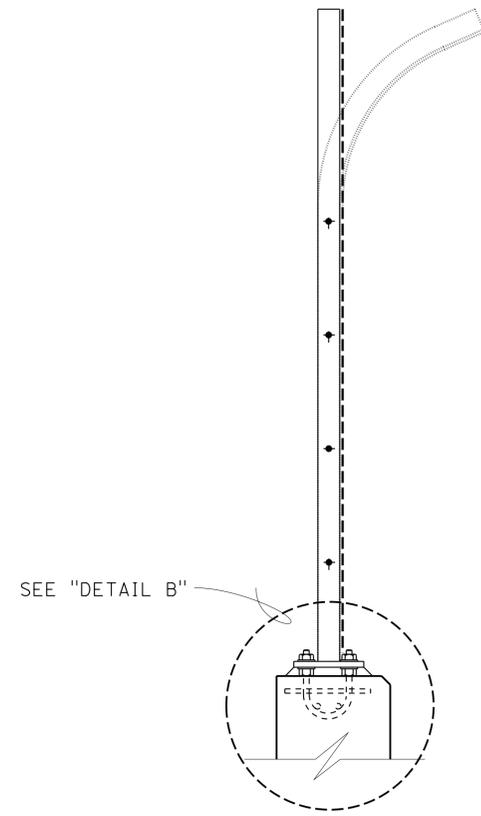
| | | | | | | |
|--|--|---------------------------|---|--|-------------------------|--|
| DESIGN BY David Alvarez | | CHECKED Hilario Tuazon | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | BRIDGE NO. 50-0517 | SUNNY LANE POC CHAIN LINK RAILING DETAILS NO. 1 |
| DETAILS BY David Elliott | | CHECKED Hilario Tuazon | | | POST MILE R 4.35 | |
| QUANTITIES BY Hilario Tuazon | | CHECKED Rachel Washington | | | | |
| STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | UNIT: 3591 PROJECT NUMBER & PHASE: 0614000265-1 | CONTRACT NO.: 06-0H6414 | DISREGARD PRINTS BEARING EARLIER REVISION DATES |
| | | | | REVISION DATES | SHEET | OF |
| | | | | 8-3-13 1-28-14 2-26-14 | 38 | 41 |

| | | | | | |
|--|--------|-------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 06 | Ker | 178 | R4.4 | 93 | 95 |
|  REGISTERED CIVIL ENGINEER | | | 4-14-14 | DATE | |
| PLANS APPROVAL DATE | | | 5-12-14 | | |
|  | | | | | |
| <small>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.</small> | | | | | |

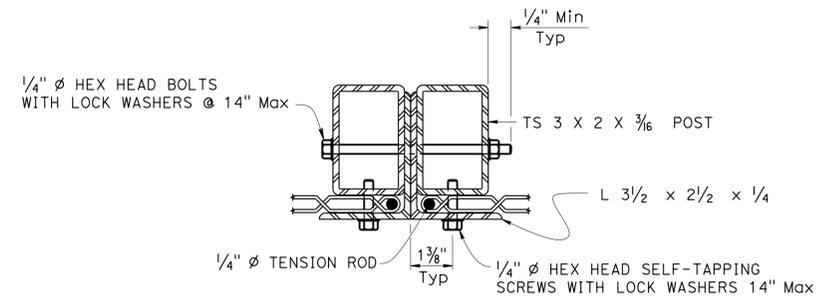
← LIMITS OF CHAIN LINK RAILING WITH STRAIGHT POSTS LIMITS OF CHAIN LINK RAILING WITH CURVE POSTS →



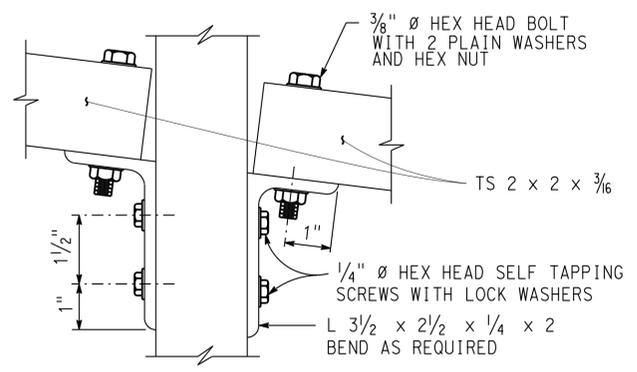
PART ELEVATION
NO SCALE



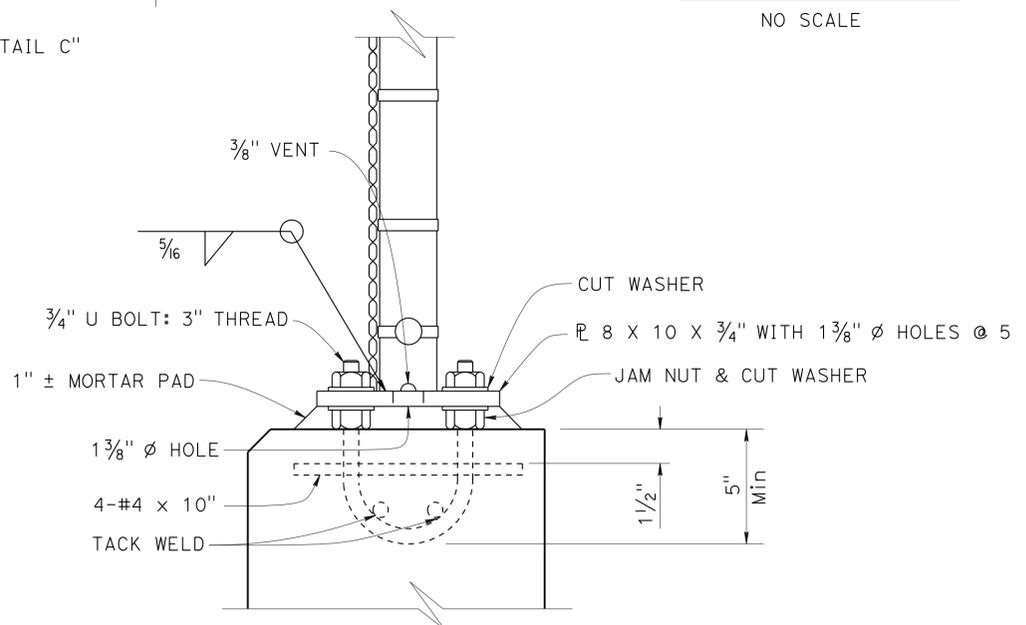
SECTION E-E
NO SCALE



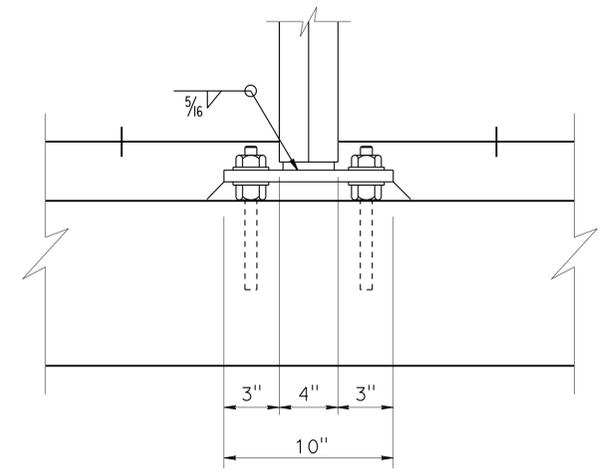
SECTION D-D
NO SCALE



DETAIL A
NO SCALE



DETAIL B
NO SCALE



DETAIL C
NO SCALE

| | | |
|------------|-------------------|---------------------------|
| DESIGN | BY David Alvarez | CHECKED Hilario Tuazon |
| DETAILS | BY David Elliott | CHECKED Hilario Tuazon |
| QUANTITIES | BY Hilario Tuazon | CHECKED Rachel Washington |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

| | |
|------------|---------|
| BRIDGE NO. | 50-0517 |
| POST MILE | R 4.35 |

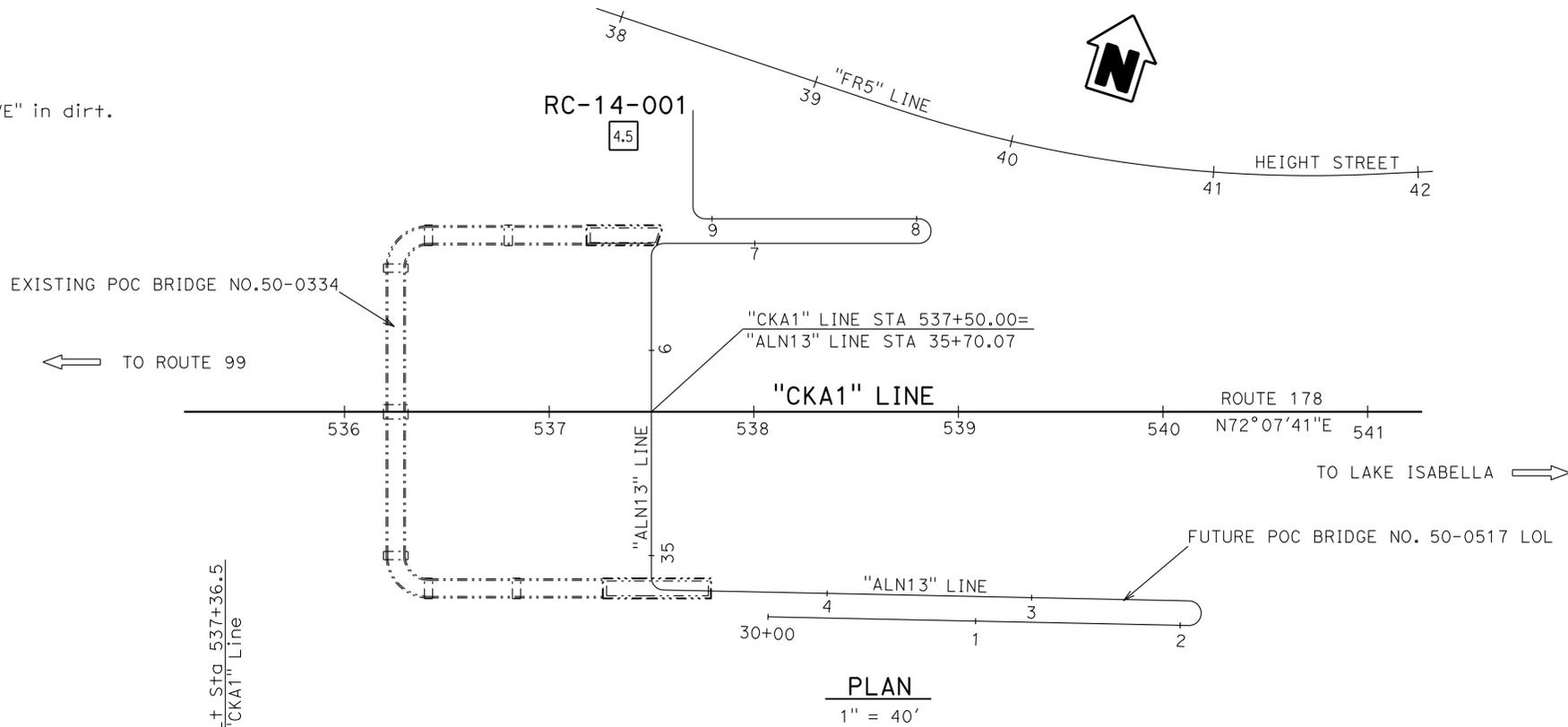
SUNNY LANE POC
CHAIN LINK RAILING DETAILS NO. 2

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|--------------------------|----------|--------------|
| 06 | Ker | 178 | R4.4 | 94 | 95 |

Chris Koepke 5-12-14
 CERTIFIED ENGINEERING GEOLOGIST
 5-12-14
 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.

BENCH MARK

Fnd. red CT plastic plug marked "SAVE" in dirt.
 133' Lt Sta 537+36.5 "CKA1-Line"
 Elev 584.0
 NAVD ??

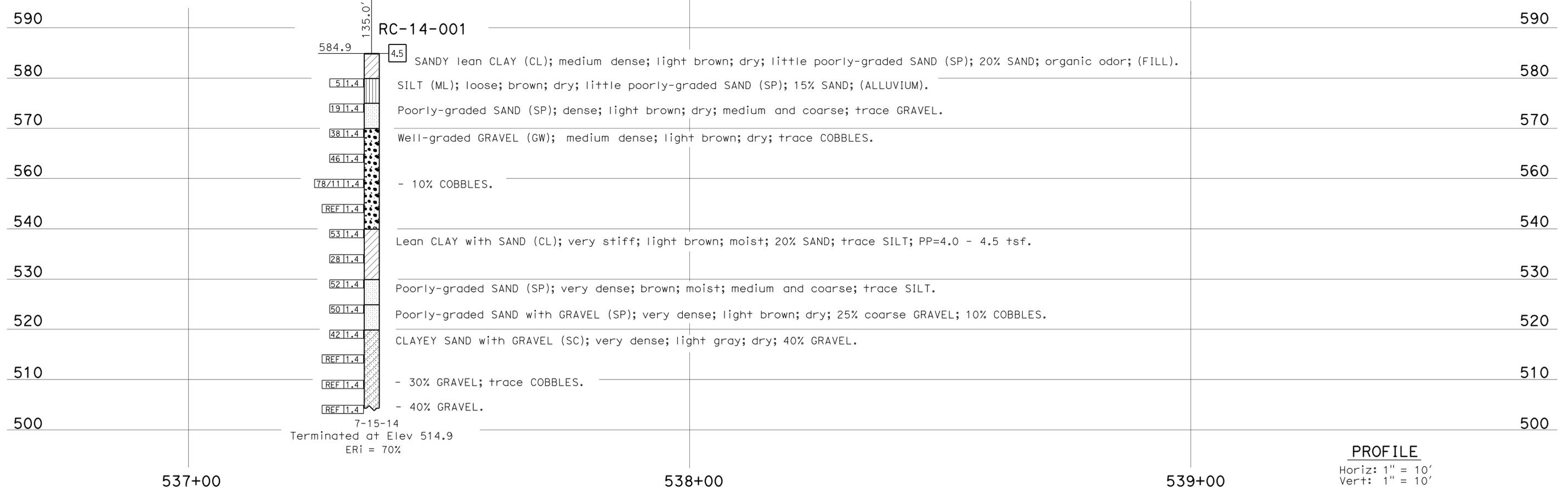


This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

Note: No ground water encountered during field investigation.

PLAN
1" = 40'



PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

| | | | | | | | | | |
|-------------------------------------|------------------------|--|--|---|--|--|--|---|--|
| ENGINEERING SERVICES | | MATERIALS AND GEOTECHNICAL SERVICES | | STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | | DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 6 | | SUNNY LANE POC (REPLACE) LOG OF TEST BORINGS | |
| FUNCTIONAL SUPERVISOR | DRAWN BY: W. Tang 7/14 | FIELD INVESTIGATION BY: C. Koepke | | BRIDGE NO. 50-0517 | | POST MILE R3.8/R4.8 | | REVISION DATES | |
| NAME: Q. Huang | CHECKED BY: X. Zheng | | | UNIT: 3643 | | PROJECT NUMBER & PHASE: 0614000265-1 | | SHEET 40 OF 41 | |
| 06S CIVIL LOG OF TEST BORINGS SHEET | | | | ORIGINAL SCALE IN INCHES FOR REDUCED PLANS | | CONTRACT NO.: 06-0H6414 | | DISREGARD PRINTS BEARING EARLIER REVISION DATES | |

USERNAME => s115755 DATE PLOTTED => 25-AUG-2014 TIME PLOTTED => 14:38

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|---------|-----------|--------------|
| VI | Ker | 57 | E | 46 | 46 |

DATE APPROVED: June 1, 1964

DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES

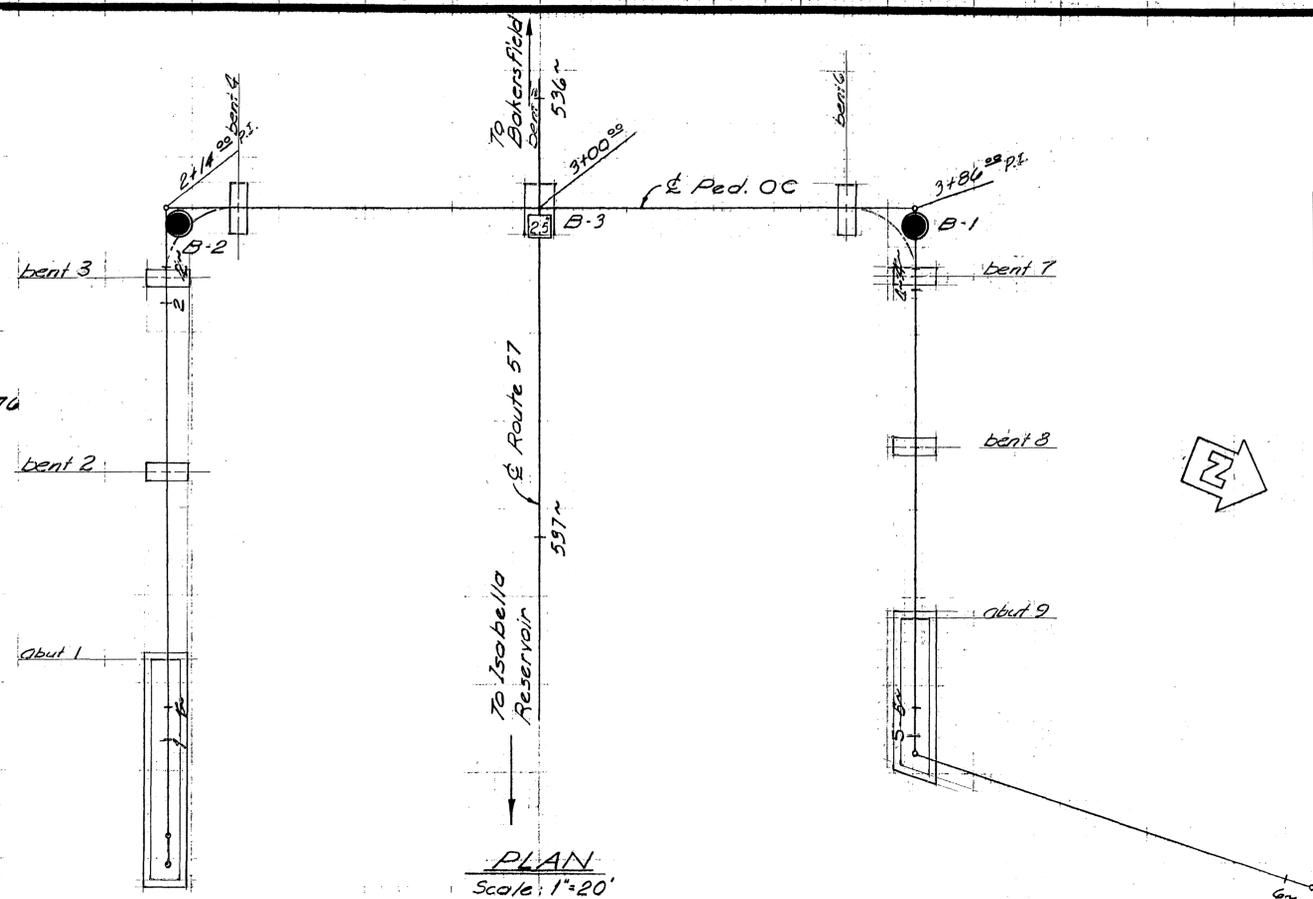
As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

| | | | | | |
|-------|--------|-------|-------------------------|-----------|--------------|
| DIST. | COUNTY | ROUTE | POST MILE-TOTAL PROJECT | Sheet No. | Total sheets |
| 06 | Ker | 178 | R4.4 | 95 | 95 |

UNIT: 3643 CONTRACT No. BRIDGE No.
 PROJ. No. & PHASE: 0614000265-1 06-0H6414 50-0517

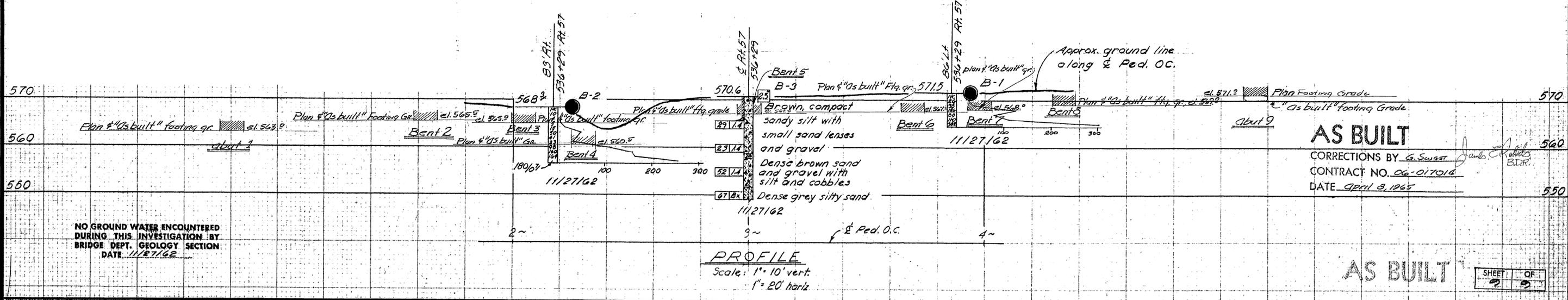
AS-BUILT VERT. DATUM: N/A DATUM CONVERSION: N/A Sheet of

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA 41 41



B.M.
 Chiseled "□" on south
 curb Rollo Ravine
 33' Lt of "Ped. OC" 1+76
 Elev. 568.88

PLAN
 Scale: 1"=20'



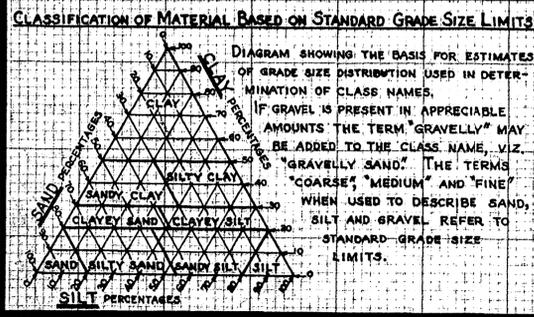
PROFILE
 Scale: 1"=10' vert.
 1"=20' horiz

AS BUILT
 CORRECTIONS BY G. SCAGST
 CONTRACT NO. 06-017014
 DATE April 9, 1965

AS BUILT

| | |
|-------|----|
| SHEET | OF |
| 2 | 2 |

NO GROUND WATER ENCOUNTERED
 DURING THIS INVESTIGATION BY
 BRIDGE DEPT. GEOLOGY SECTION
 DATE 11/27/62



LEGEND OF EARTH MATERIALS

| | |
|---------------------------|----------------------------|
| GRAVEL | SILTY CLAY OR CLAYEY SILT |
| SAND | PEAT AND/OR ORGANIC MATTER |
| SILT | FILL MATERIAL |
| CLAY | IGNEOUS ROCK |
| SANDY CLAY OR CLAYEY SAND | SEDIMENTARY ROCK |
| SANDY SILT OR SILTY SAND | METAMORPHIC ROCK |

LEGEND OF BORING OPERATIONS

- PENETROMETER
- 2 1/4" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT

1" SOIL TUBE

ROTARY BORING

PENETRATION BORING

NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

SUNNY LANE PEDESTRIAN OC

LOG OF TEST BORINGS

SCALE As noted BRIDGE 50-994 FILE DRAWING 50-934-6

BRIDGE DEPARTMENT

FIELD DIVISION
 DRAWN BY
 CHECKED BY
 APPROVED BY