Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	1	11

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	LAYOUT
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	SUMMARY OF QUANTITIES
6-8	REVISED STANDARD PLANS

STRUCTURES PLANS

SHEET No.	DESCRIPTION
9	GENERAL PLAN
10-11	FOOTING DETAILS 1 & 2

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

STATE OF CALIFORNIA **ACNHPI-015-3(046)251E**

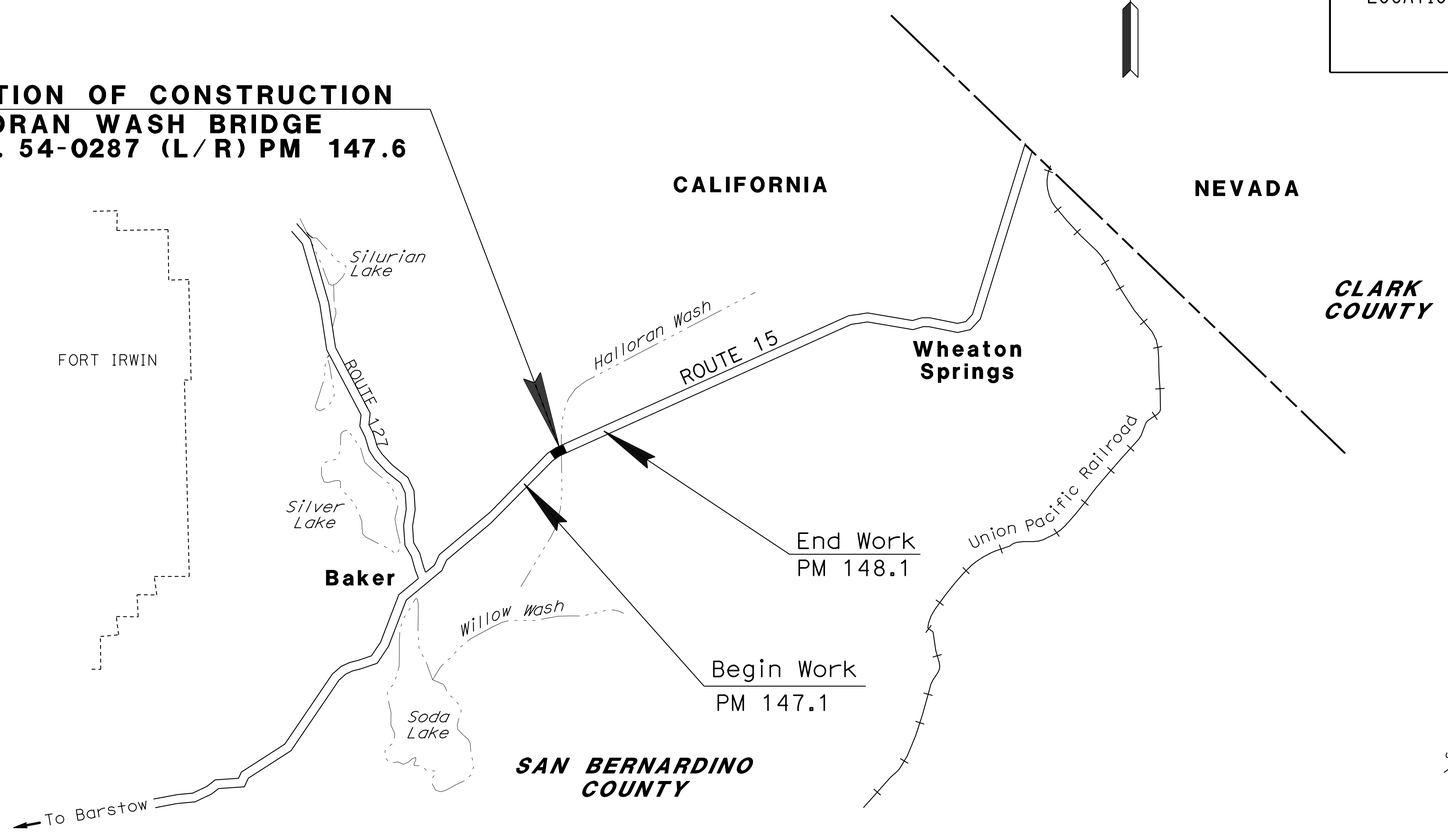
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN SAN BERNARDINO COUNTY NEAR BAKER AT HALLORAN WASH BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION OF CONSTRUCTION
HALLORAN WASH BRIDGE
Br No. 54-0287 (L/R) PM 147.6



NO SCALE

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

PROJECT MANAGER: R. YOUSSEF

DESIGN ENGINEER: DON NGUYEN

Renee Sasse 6-2-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
RENEE SASSE
No. C41092
Exp. 3-31-15
CIVIL
STATE OF CALIFORNIA

June 2, 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.	08-0J9304
PROJECT ID	0800020192

LAST REVISION 06-02-14 DATE PLOTTED => 29-MAY-2014 TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	2	11

Renee Sasse 6-2-14
REGISTERED CIVIL ENGINEER DATE

RENEE SASSE No. C41092 Exp. 3-31-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-2-14
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:

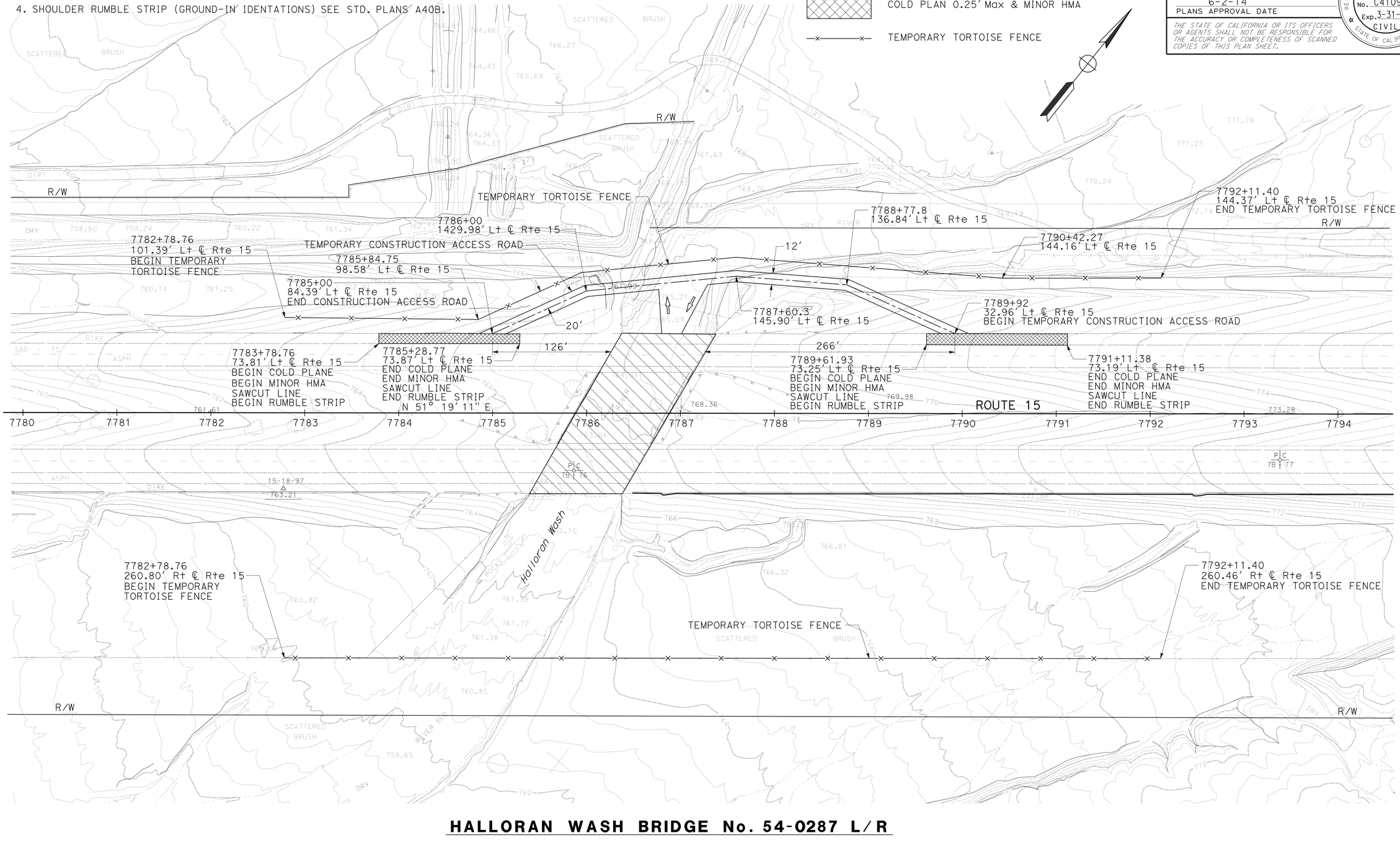
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE STRUCTURE PLANS FOR BRIDGE WORK.
3. COLD PLANE & MINOR HMA 0.25′ Max AFTER THE BRIDGE WORK IS FINISHED. THE WIDTH IS THE EXISTING SHOULDER WIDTH.
4. SHOULDER RUMBLE STRIP (GROUND-IN IDENTATIONS) SEE STD. PLANS A40B.

LEGEND:

BRIDGE WORK AREA

COLD PLAN 0.25′ Max & MINOR HMA

TEMPORARY TORTOISE FENCE



HALLORAN WASH BRIDGE No. 54-0287 L/R

LAYOUT

SCALE: 1 = 50′ **L-1**

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: RENEE SASSE
CALCULATED-DESIGNED BY: DON NGUYEN
CHECKED BY: RENEE SASSE
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 29-MAY-2014
06-02-14 | TIME PLOTTED => 10:14

BORDER LAST REVISED 7/2/2010

USERNAME => s125726
DGN FILE => 0800020192ea001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2229

PROJECT NUMBER & PHASE 08000201921

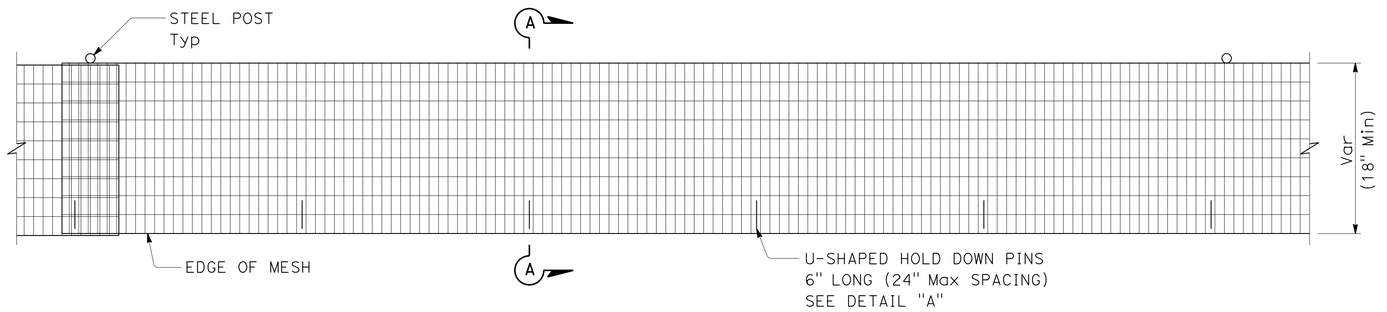
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	3	11

Renee Sasse 6-2-14
REGISTERED CIVIL ENGINEER DATE

6-2-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RENEE SASSE
No. C41092
Exp. 3-31-15
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.



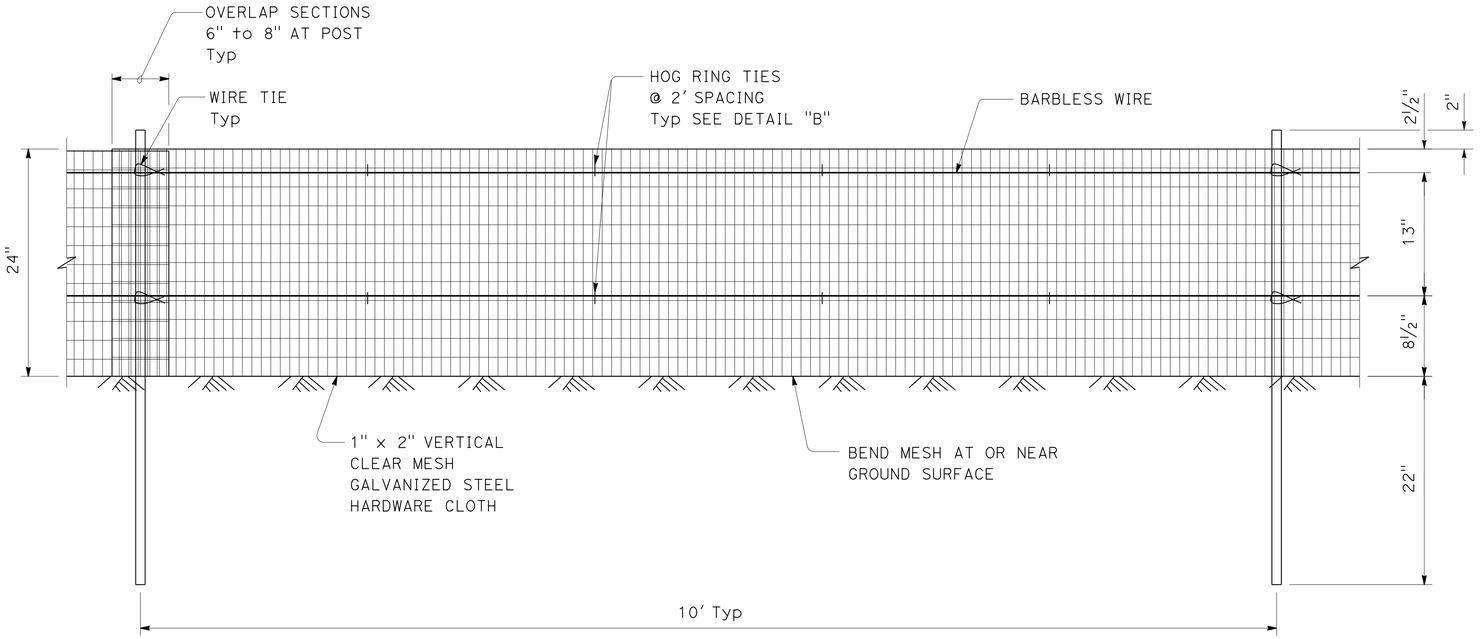
PLAN VIEW

LEGEND:

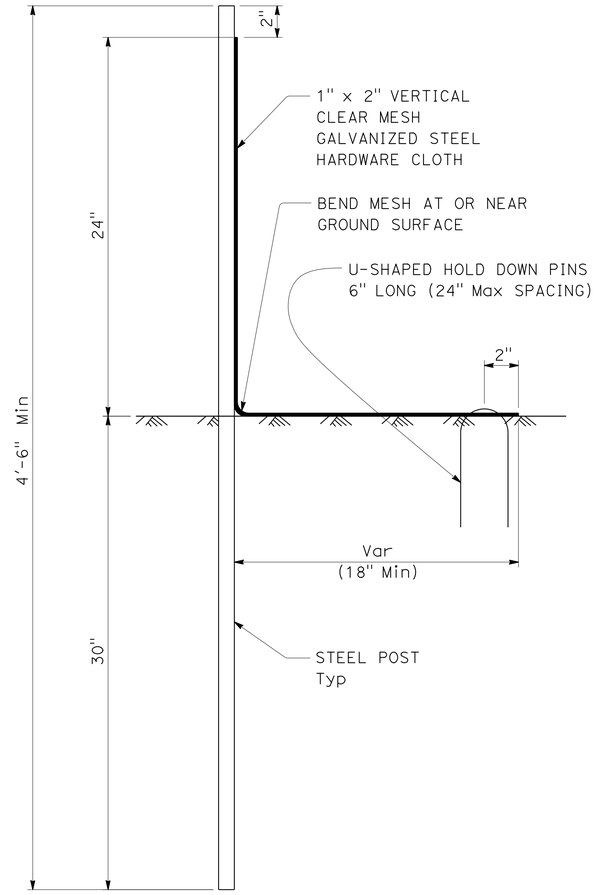
DESERT TORTOISE HABITAT

NOTES:

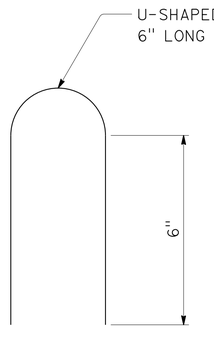
1. EXACT LOCATIONS FOR TEMPORARY DESERT TORTOISE FENCE ARE SHOWN ON THE PLANS.
2. HORIZONTAL PORTION OF HARDWARE CLOTH MUST BE ON HABITAT SIDE OF POSTS.



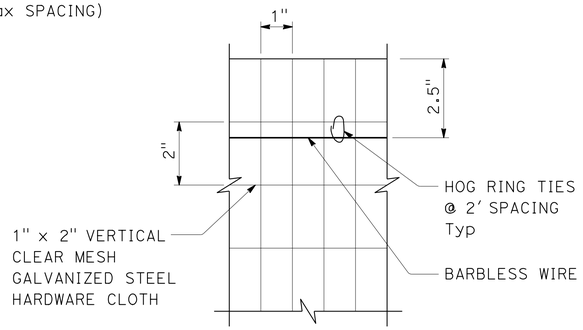
FRONT VIEW



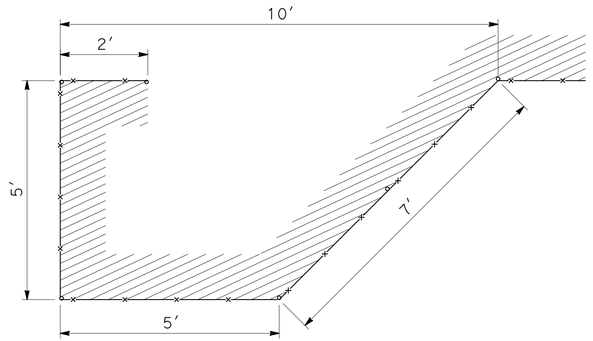
SECTION A-A



DETAIL "A"



DETAIL "B"



PLAN VIEW
REDIRECTIONAL CONFIGURATION

CONSTRUCTION DETAILS
TEMPORARY FENCE
(TYPE DESERT TORTOISE)

NO SCALE

C-1

REVISED BY | DATE REVISED
DON NGUYEN | RENEE SASSE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RENEE SASSE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 06-02-14 | DATE PLOTTED => 29-MAY-2014 | TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	4	11

W E Wasser 6-2-14
REGISTERED CIVIL ENGINEER DATE

6-2-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
W. E. WASSER
No. C37378
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

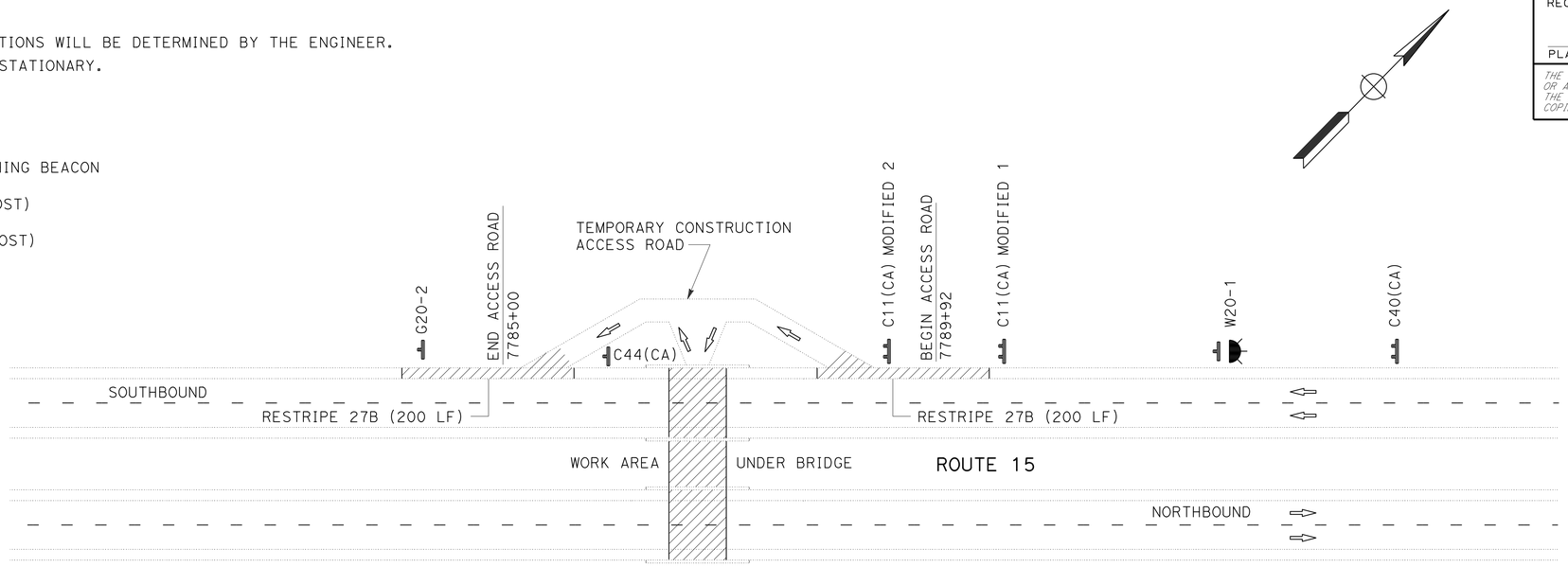
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. THE EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. ALL SIGNS SHALL BE STATIONARY.

LEGEND:

- PORTABLE FLASHING BEACON
- SIGN (SINGLE POST)
- SIGN (DOUBLE POST)
- WORK AREA



HALLORAN WASH BRIDGE No. 54-0287 L/R
ROUTE 15 PM 147.6

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
FEDERAL	CALIFORNIA				
G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	1
W20-1		48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1
	C40(CA)	72" x 36"		2 - 4" x 6"	1
	C44(CA)	48" x 48"	TRUCKS EXITING	1 - 6" x 6"	1
	C11(CA) MODIFIED 1	90" x 48"		2 - 6" x 6"	1
	C11(CA) MODIFIED 2	90" x 48"		2 - 6" x 6"	1

72" × 36"
TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES
C40(CA)
LETTER SIZE : 6" D

90" × 48"
CONSTRUCTION EQUIPMENT ACCESS AHEAD
C11(CA) MODIFIED 1
LETTER SIZE : 8" C

90" × 48"
CONSTRUCTION EQUIPMENT ACCESS
C11(CA) MODIFIED 2
LETTER SIZE : 8" C

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

(EA)
1

FLASHING BEACON (PORTABLE)

(EA)
1

DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)
	4" WHITE
	LF
27B	400

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS AND PAVEMENT DELINEATION PLAN

NO SCALE

CS-1

REVISED BY | DATE REVISED
JAMES LIANG | THANH TRINH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: BILL WASSER
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

LAST REVISION 06-02-14
DATE PLOTTED => 29-MAY-2014
TIME PLOTTED => 10:14

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 08000201921a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2284
PROJECT NUMBER & PHASE 08000201921

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	5	11

Renee Sasse 6-2-14
REGISTERED CIVIL ENGINEER DATE

6-2-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RENEE SASSE
No. C41092
Exp. 3-31-15
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.

ROADWAY QUANTITIES

ROADWAY EXCAVATION	COLD PLANE AC (0.25' Max)	MINOR HOT MIX ASPHALT	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	TEMPORARY FENCE (TORTOISE)
CY	SQYD	TON	STA	LF
150	400	80	3	2,000

TEMPORARY WATER POLLUTION CONTROL

DESCRIPTION	UNIT	QUANTITY
JOB SITE MANAGEMENT	LS	1
PREPARE WATER POLLUTION CONTROL PROGRAM	LS	1
TEMPORARY SOIL BINDER	SQFT	4,000
TEMPORARY CONSTRUCTION ROADWAY	SQFT	67

SUMMARY OF QUANTITIES Q-1

REVISED BY | DATE REVISED
DON NGUYEN | RENEE SASSE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RENEE SASSE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 06-02-14
DATE PLOTTED => 29-MAY-2014
TIME PLOTTED => 10:14

BORDER LAST REVISED 7/2/2010
USERNAME => s125726
DGN FILE => 0800020192pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2229
PROJECT NUMBER & PHASE 08000201921

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
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, 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 Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, 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
℄	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
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE, 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
08	SBd	15	147.6	6	11

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 6-2-14

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
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

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

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	7	11

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 6-2-14

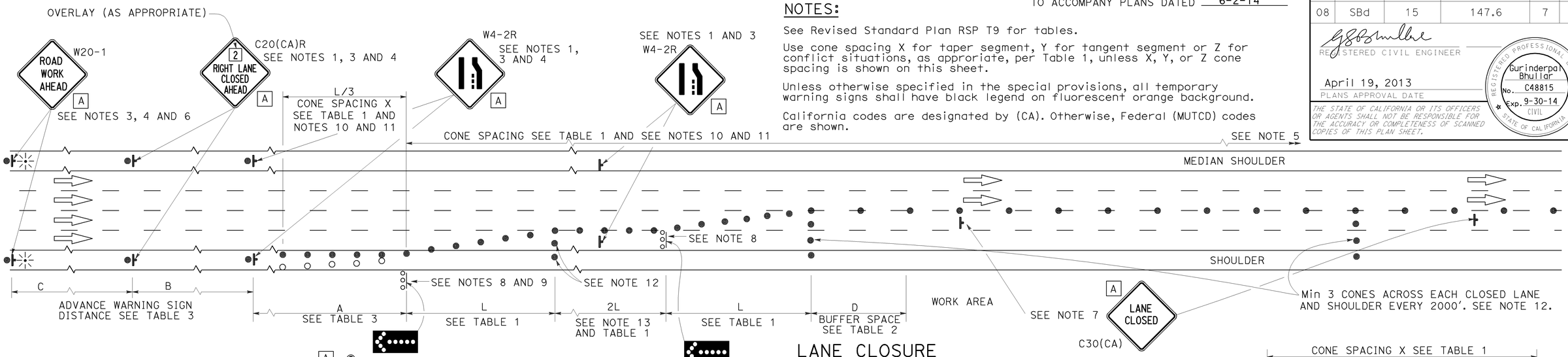
NOTES:

See Revised Standard Plan RSP T9 for tables.

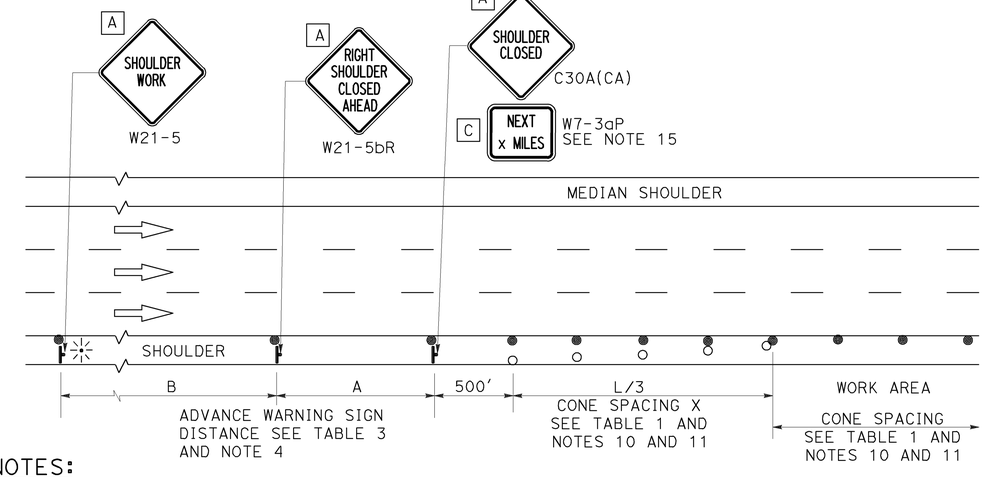
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

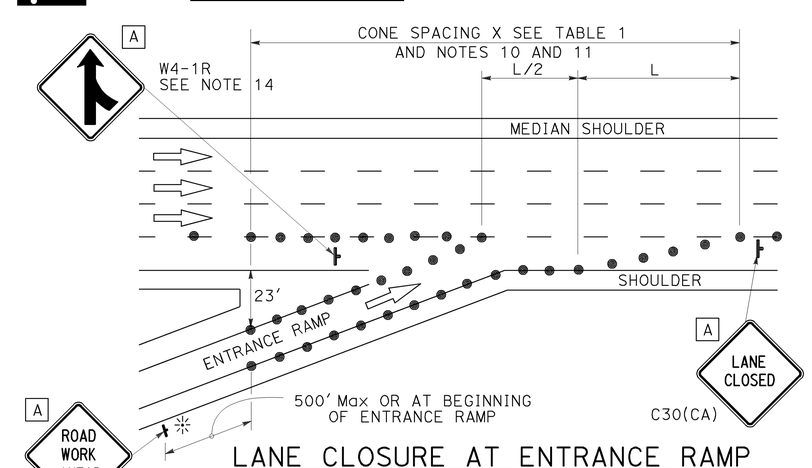
Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.

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

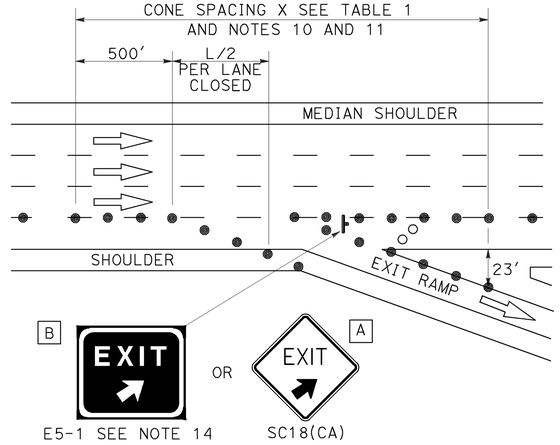


LANE CLOSURE





LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

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

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT___MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	15	147.6	8	11

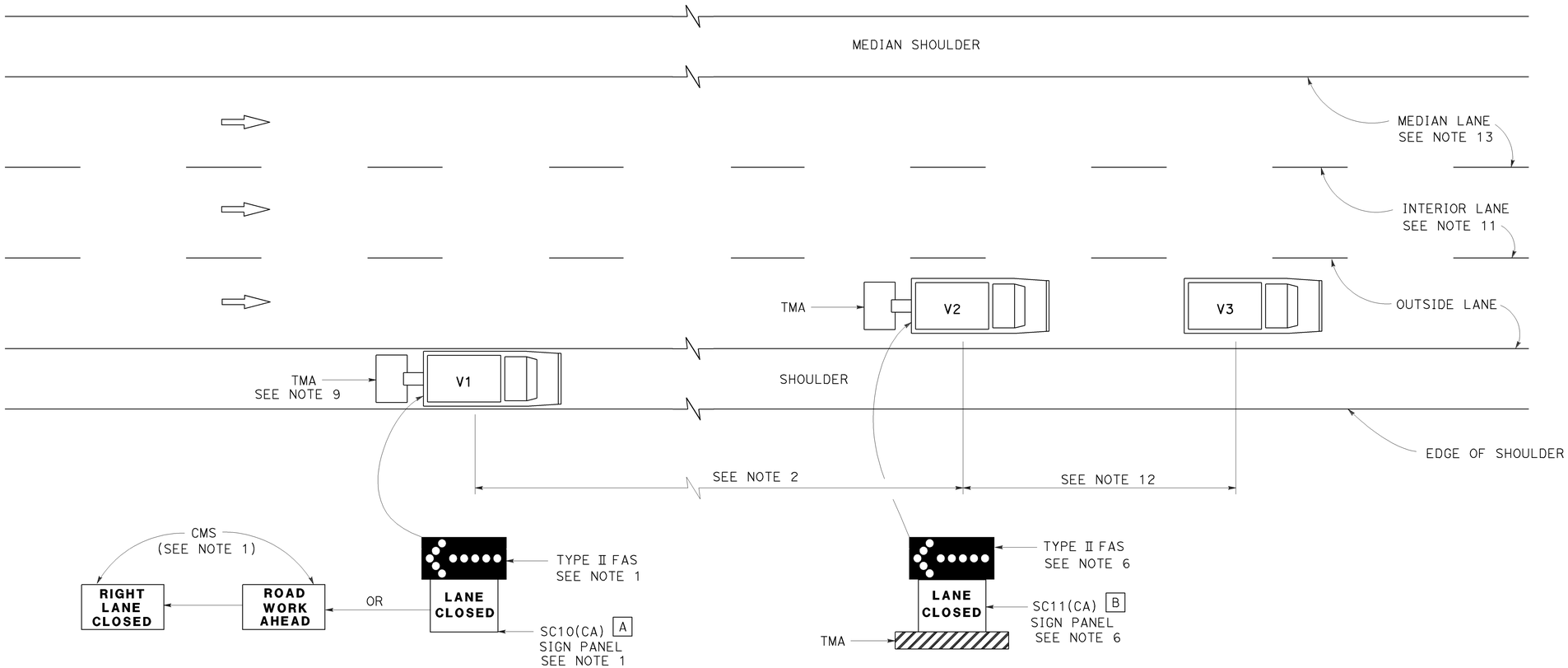
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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

TO ACCOMPANY PLANS DATED 6-2-14



SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

12-18-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	147.6	9	11

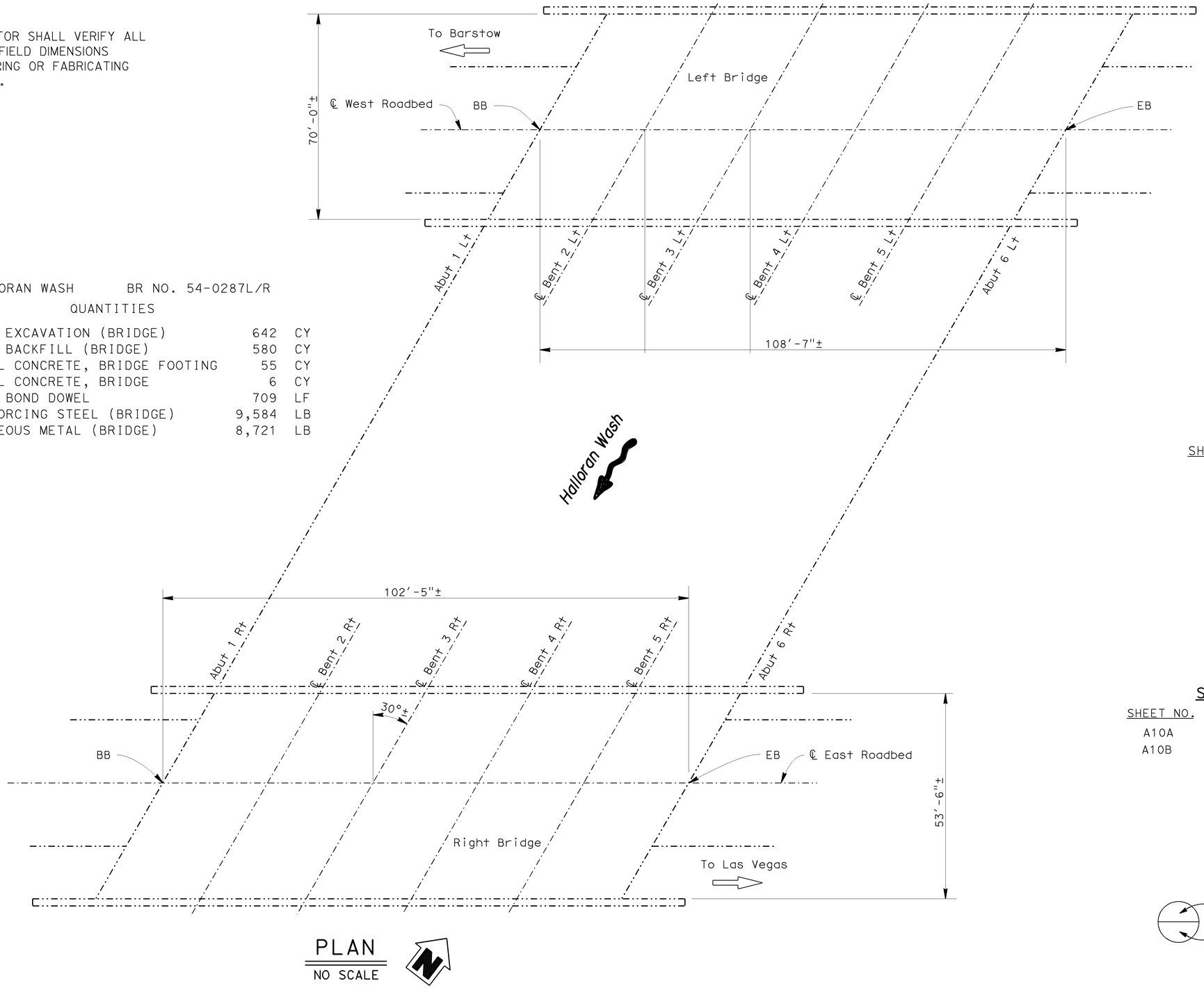
REGISTERED CIVIL ENGINEER — 02-07-14 DATE

6-2-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — HUBERT HOA DANG — No. C 69174 — Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

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

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



PLAN
NO SCALE

HALLORAN WASH BR NO. 54-0287L/R

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	642	CY
STRUCTURE BACKFILL (BRIDGE)	580	CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	55	CY
STRUCTURAL CONCRETE, BRIDGE	6	CY
DRILL AND BOND DOWEL	709	LF
BAR REINFORCING STEEL (BRIDGE)	9,584	LB
MISCELLANEOUS METAL (BRIDGE)	8,721	LB

Note:

---·---·-- Indicates existing structure.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOOTING DETAILS NO. 1
3	FOOTING DETAILS NO. 2

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)

Standard Plan Sheet No.
Detail No.

Michael J. Lee 02-07-14
DESIGN ENGINEER

DESIGN	BY Franz Espinoza	CHECKED Hubert Dang	LAYOUT	BY Trung Lam	CHECKED Franz Espinoza
DETAILS	BY Trung Lam	CHECKED Hubert Dang	SPECIFICATIONS	BY X	PLANS AND SPECIFICATIONS COMPARED X
QUANTITIES	BY Franz Espinoza	CHECKED Hubert Dang			

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. 54-0287LR
POST MILE 147.65

HALLORAN WASH
GENERAL PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0800020192 1 CONTRACT NUMBER: 08-0J9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES: 12-16-13 02-07-14 3-25-14

SHEET 1 OF 3

FILE => 08-0j9301_01_gp.dgn

USERNAME => s121283 DATE PLOTTED => 10-APR-2014 TIME PLOTTED => 08:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	147.6	10	11

REGISTERED CIVIL ENGINEER — 02-07-14 DATE

HUBERT HOA DANG No. C 69174 Exp. 6-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-2-14
PLANS APPROVAL DATE

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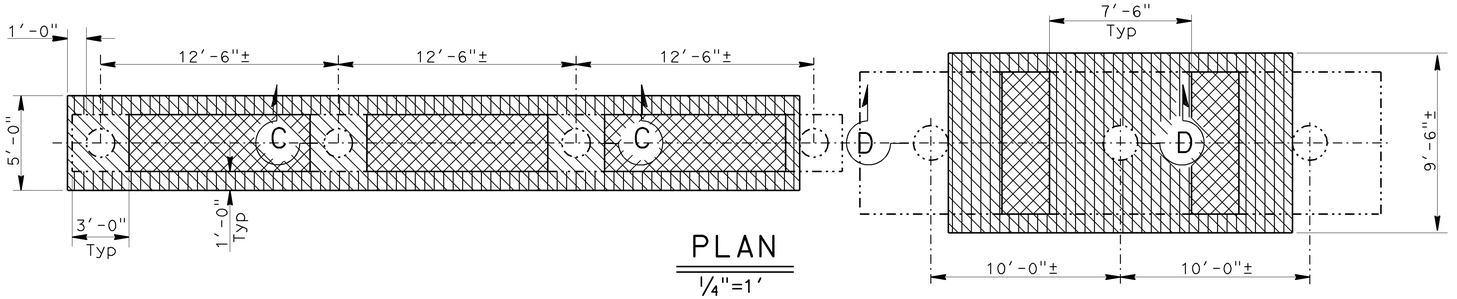
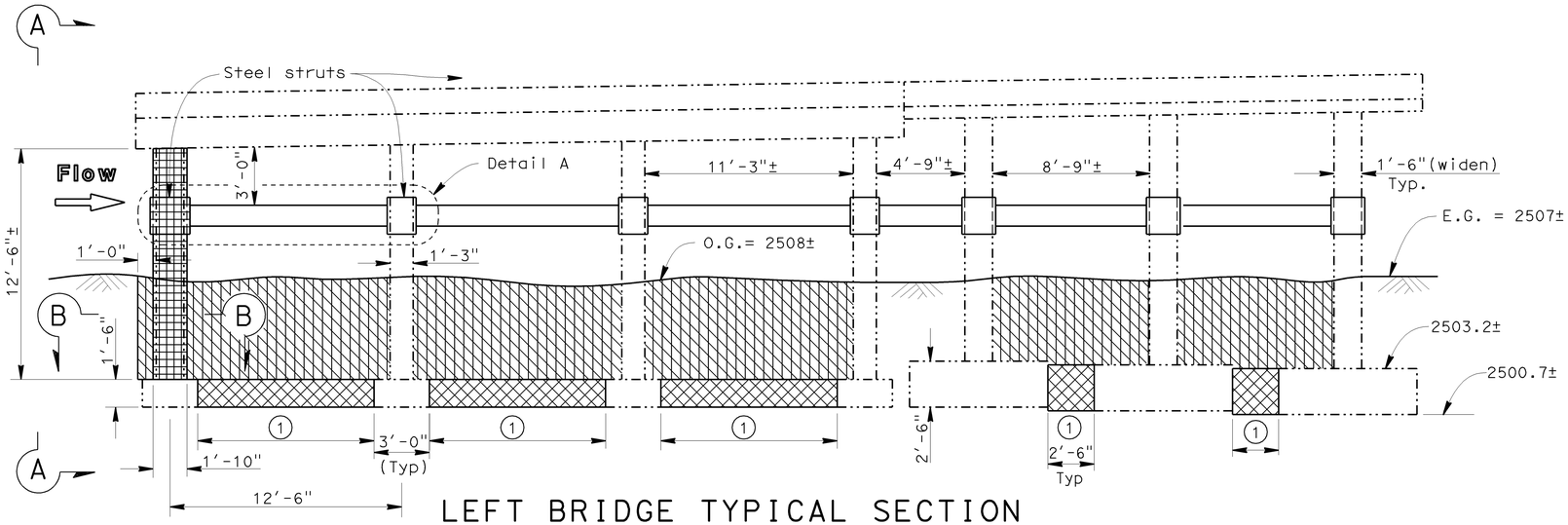
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PLAN
1/4"=1'



LEFT BRIDGE TYPICAL SECTION
1/4"=1'

Note:

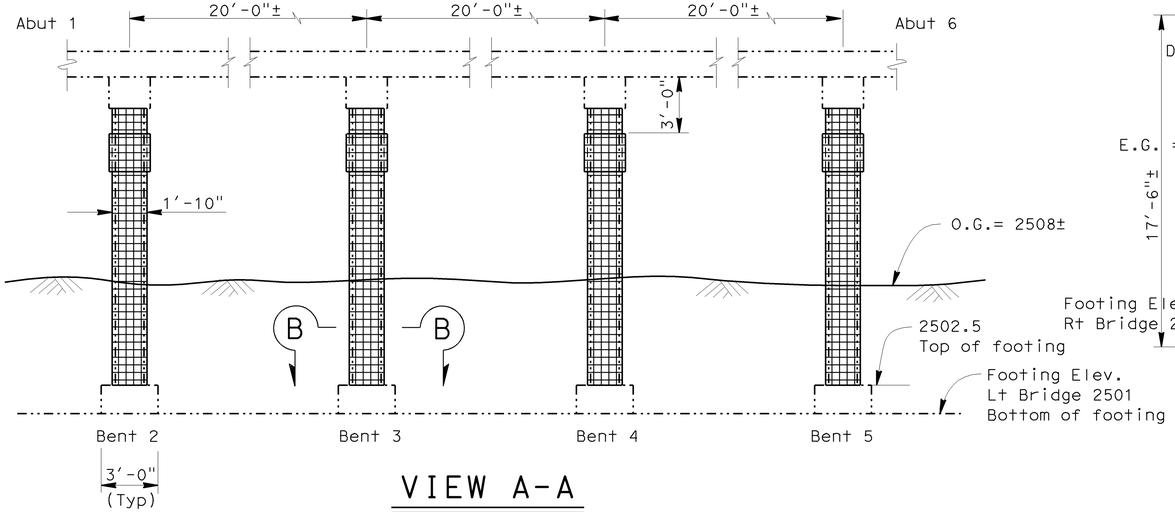
- Indicates existing structure.
- Indicates new concrete.
- Indicates structure excavation.
- Indicates structure backfill.
- Indicates piles encasement.

For DETAIL A, SECTION B-B, SECTION C-C and SECTION D-D see FOOTING DETAILS NO. 2 sheet.

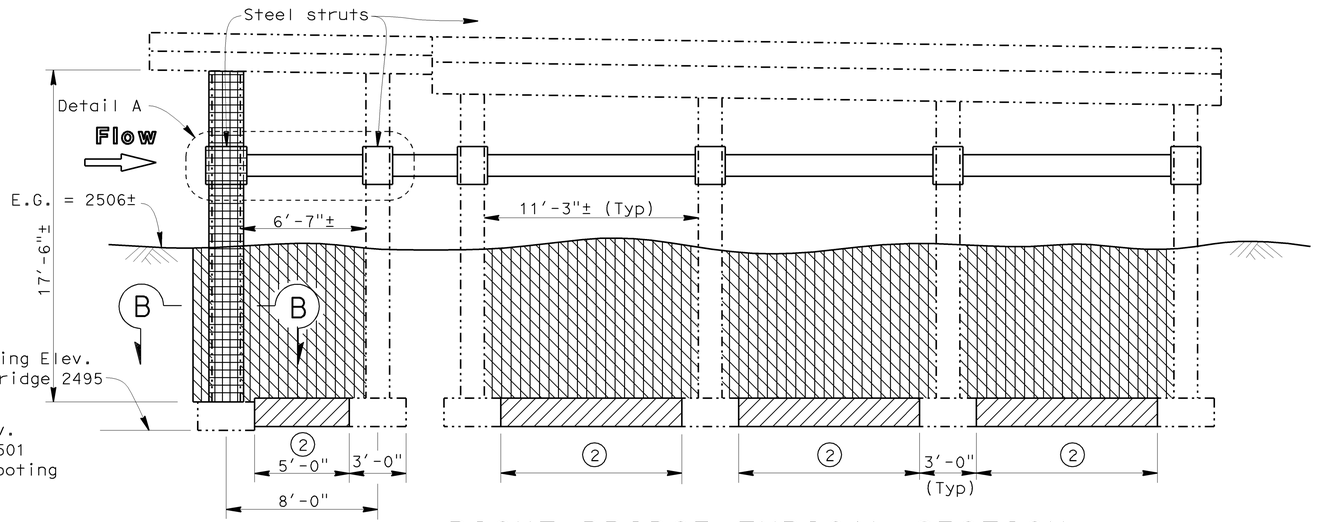
(1) Indicates new concrete at left bridge.

(2) Indicates new concrete at right bridge.

See Left Bridge for reinforcement detail.



VIEW A-A
1/4"=1'



RIGHT BRIDGE TYPICAL SECTION
1/4"=1'

DESIGN	BY Franz Espinoza	CHECKED Hubert Dang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 54-0287LR; POST MILE 147.65
DETAILS	BY Trung Lam	CHECKED Hubert Dang			
QUANTITIES	BY Franz Espinoza	CHECKED Hubert Dang			

HALLORAN WASH

FOOTING DETAILS NO. 1

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0800020192 1 CONTRACT NUMBER: 08-0J9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES: 12-16-13 02-07-14 3-25-14

SHEET 2 OF 3

FILE => 08-0j9301_02_ftg_dets_1.dgn

USERNAME => s1212289 DATE PLOTTED => 10-APR-2014 TIME PLOTTED => 08:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	15	147.6	11	11

REGISTERED CIVIL ENGINEER — 02-07-14 DATE

6-2-14
PLANS APPROVAL DATE

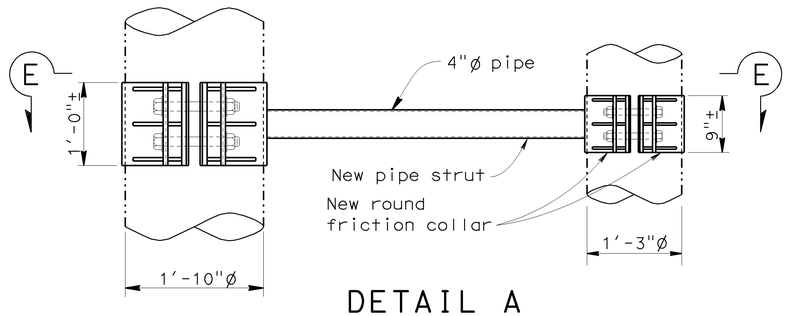
REGISTERED PROFESSIONAL ENGINEER — HUBERT HOA DANG — No. C 69174 — Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

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

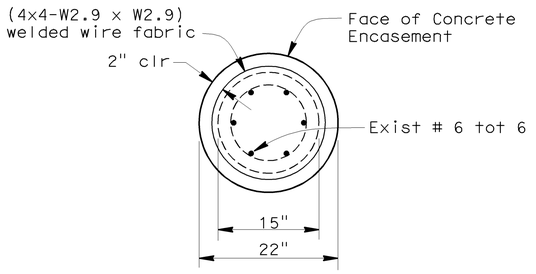
Note:

---·---·--- Indicates existing structure.

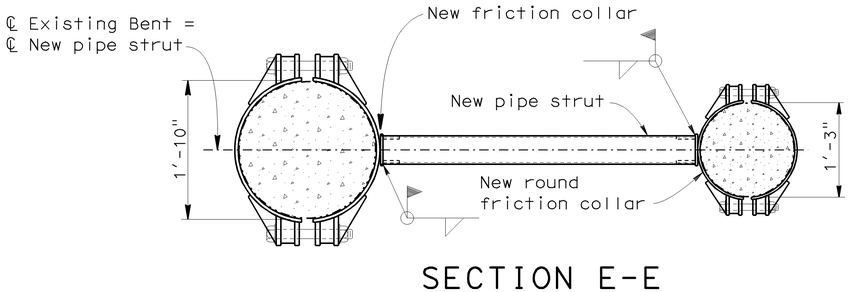
For DETAIL A, SECTION B-B, SECTION C-C and SECTION D-D locations, see FOOTING DETAILS NO. 1 sheet.



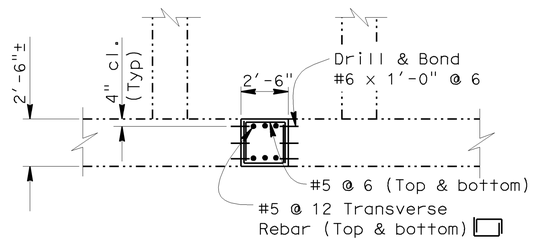
DETAIL A
1"=1'



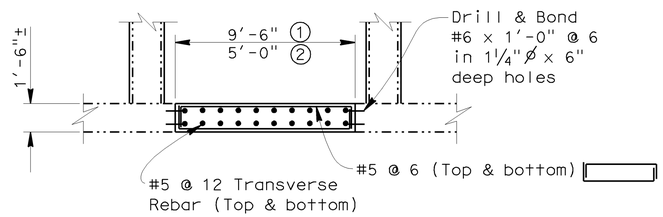
SECTION B-B
1"=1'



SECTION E-E
1"=1'



SECTION D-D
1/4"=1'



SECTION C-C
1/4"=1'

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

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: No provision for future wearing surface.

LIVE LOADING: HL93 and permit design load.

REINFORCED CONCRETE: fy = 60 ksi
f'c = 3.6 ksi
n = 8

STRUCTURAL STEEL: fy = ASTM A709 Grade 36

NOTES:

Miscellaneous Metal (Bridge) shall be galvanized.

Do not lubricate inner surfaces of friction collar.

Friction collar bolts shall be torqued per manufacturer's requirements.

Friction collar halves must not come into contact with each other at any time when torqued. Gap must be maintained between halves.

DESIGN	BY Franz Espinoza	CHECKED Hubert Dang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. 54-0287LR
DETAILS	BY Trung Lam	CHECKED Hubert Dang			POST MILE 147.65
QUANTITIES	BY Franz Espinoza	CHECKED Hubert Dang			

HALLORAN WASH
FOOTING DETAILS NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0800020192 1 CONTRACT NUMBER: 08-0J9301

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12-16-13	02-07-14	3-25-14		3	3

FILE => 08-0j9301_03_ftg_dets_2.dgn

USERNAME => s1212289 DATE PLOTTED => 10-APR-2014 TIME PLOTTED => 08:45