Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	1	20

ACIM-47B8(004)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

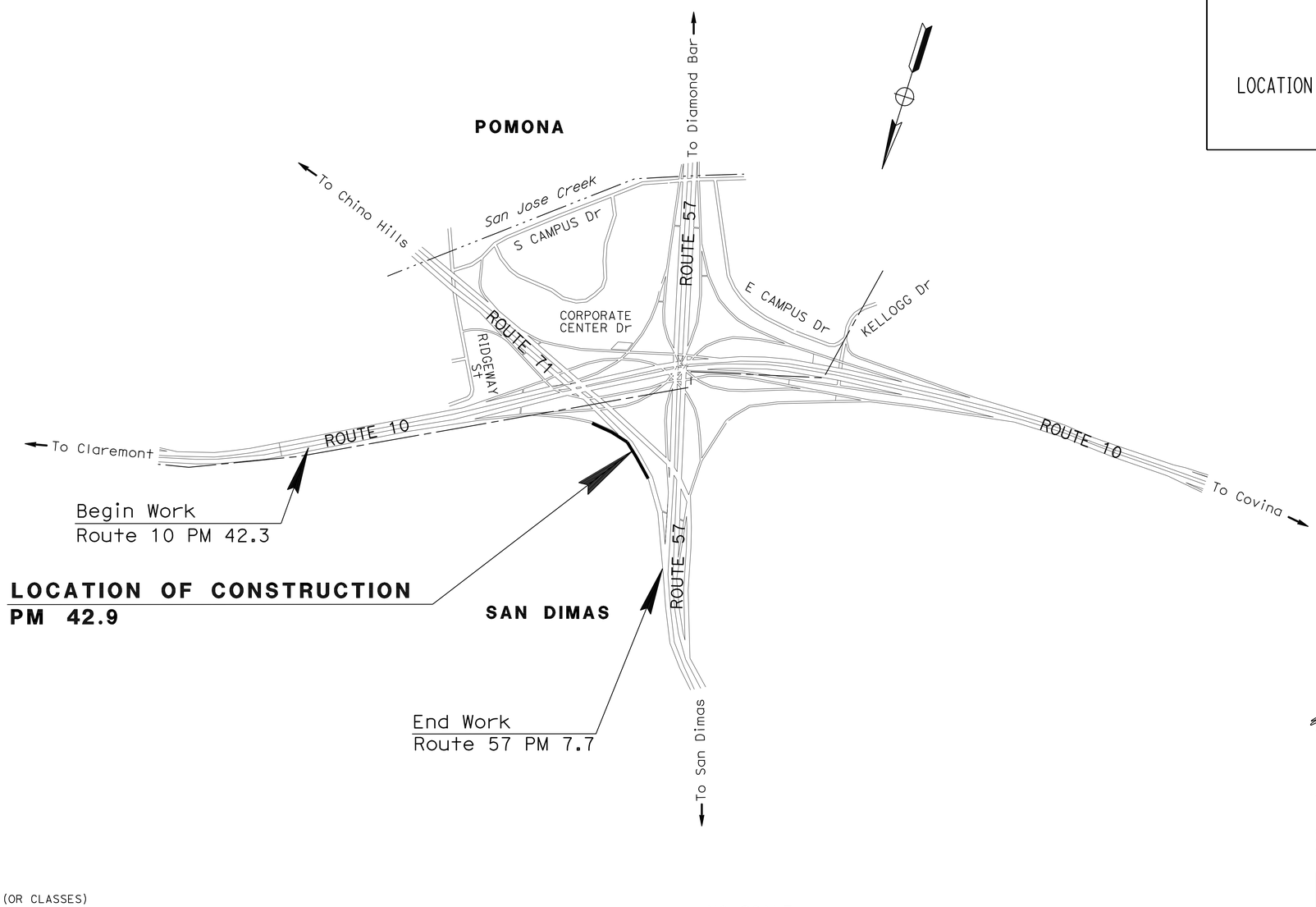
IN LOS ANGELES COUNTY
IN POMONA AND SAN DIMAS
AT ROUTE 10/57 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	LAYOUT
4	PROFILE
5	CONSTRUCTION DETAILS
6	EROSION CONTROL PLAN
7	CONSTRUCTION AREA SIGNS
8-11	TRAFFIC HANDLING DETAILS
12	SUMMARY OF QUANTITIES
13	PLANT LIST
14-20	REVISED AND NEW STANDARD PLANS

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



NO SCALE

PROJECT MANAGER: JIWANJIT PALAHA

DESIGN ENGINEER: GIAP M. HOANG

4-16-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

June 18, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
GIAP M. HOANG
No. 31769
Exp. 12/31/12
STATE OF CALIFORNIA

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

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

CONTRACT No.	07-3X0104
PROJECT ID	0700020910

LAST REVISION 00-00-00 DATE PLOTTED => 27-AUG-2012 TIME PLOTTED => 06:59

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	2	20

REGISTERED CIVIL ENGINEER 4-16-12 DATE

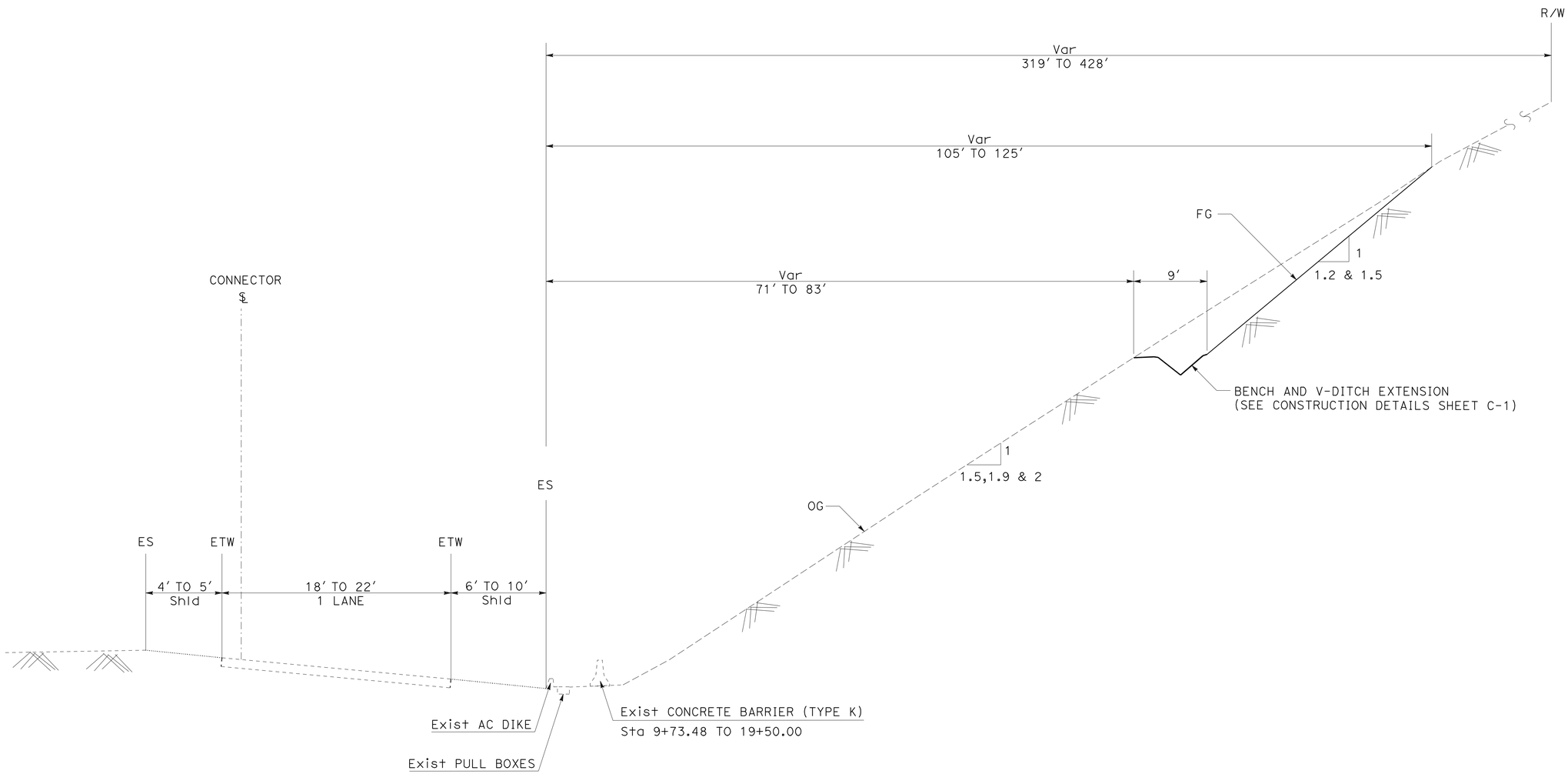
6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GIAP M. HOANG No. 31769 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAMS.
3. EXACT LOCATIONS AND TYPES OF HMA DIKE ARE SHOWN ON THE LAYOUTS AND SUMMARY OF QUANTITIES SHEETS.



ROUTE 10 WB TO ROUTE 57 NB CONNECTOR

Sta 15+00.00 TO Sta 17+10.00

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
RAKESH KARKI | GIAP M. HOANG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: O.C. LEE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 04-12-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	3	20

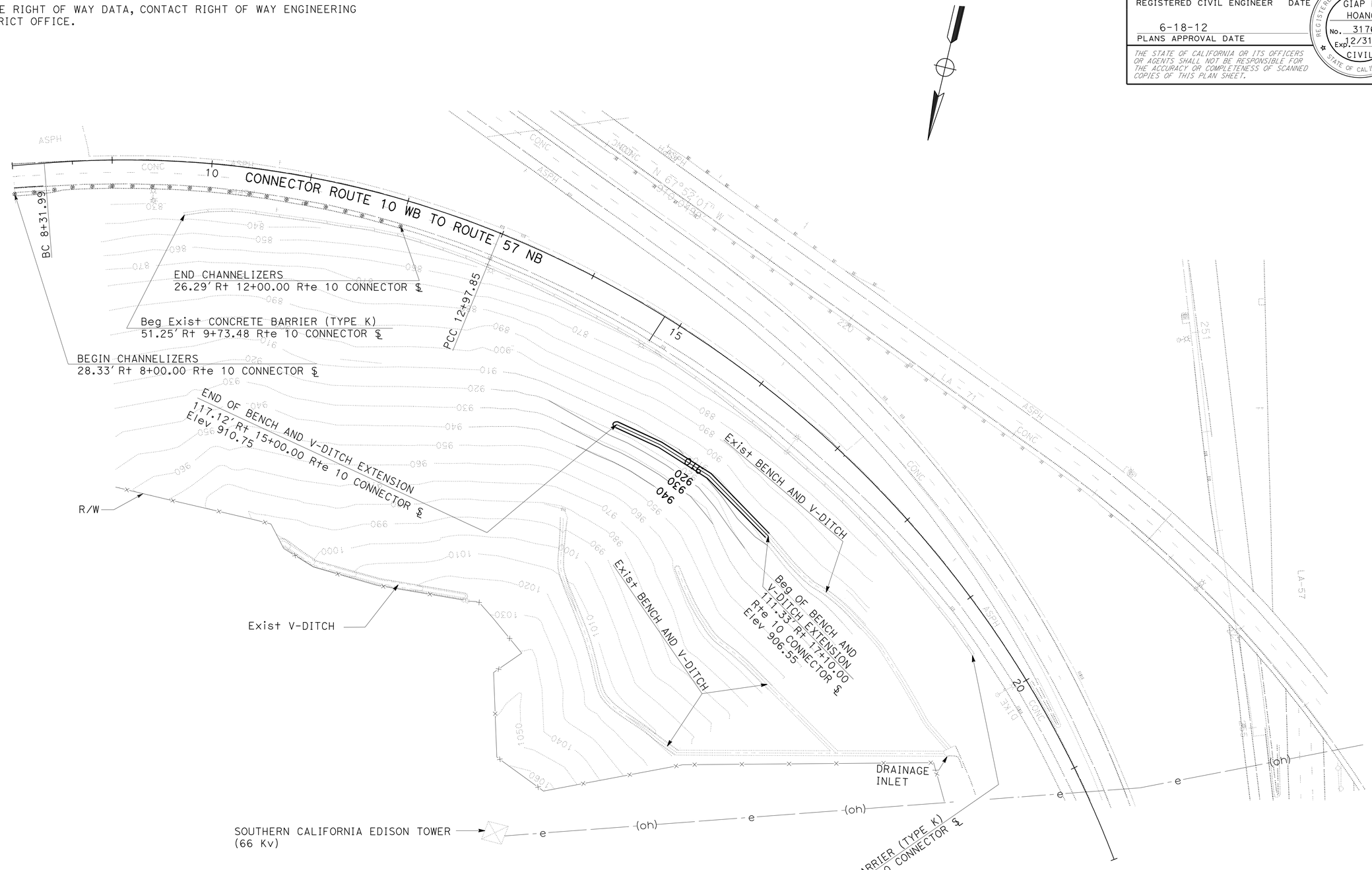
REGISTERED CIVIL ENGINEER 4-16-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GIAP M. HOANG No. 31769 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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

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



LAYOUT

SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: O.C. LEE
CALCULATED-DESIGNED BY: RAKESH KARKI
CHECKED BY: GIAP M. HOANG
REVISED BY
DATE REVISED

LAST REVISION 04-12-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

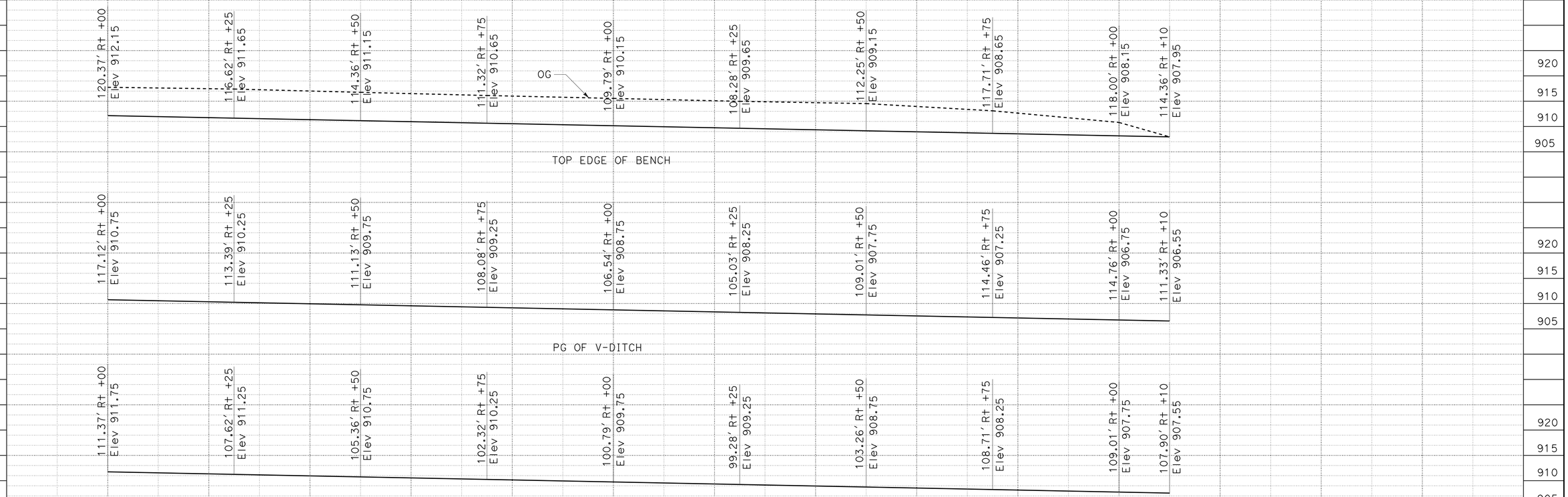
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	4	20

REGISTERED CIVIL ENGINEER 4-16-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GIAP M. HOANG No. 31769 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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



PROFILE

SCALE: Horiz 1" = 20'
Vert 1" = 20'

P-1

STATION	15+00	15+20	15+40	15+60	15+80	16+00	16+20	16+40	16+60	16+80	17+00	17+20	TOTAL
CY Exc						811.00							
CY Emb						000.00							

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: O.C. LEE
CALCULATED-DESIGNED BY: RAKESH KARKI
CHECKED BY: GIAP M. HOANG
REVISED BY
DATE REVISED

LAST REVISION 04-12-12
DATE PLOTTED => 27-AUG-2012
TIME PLOTTED => 07:00

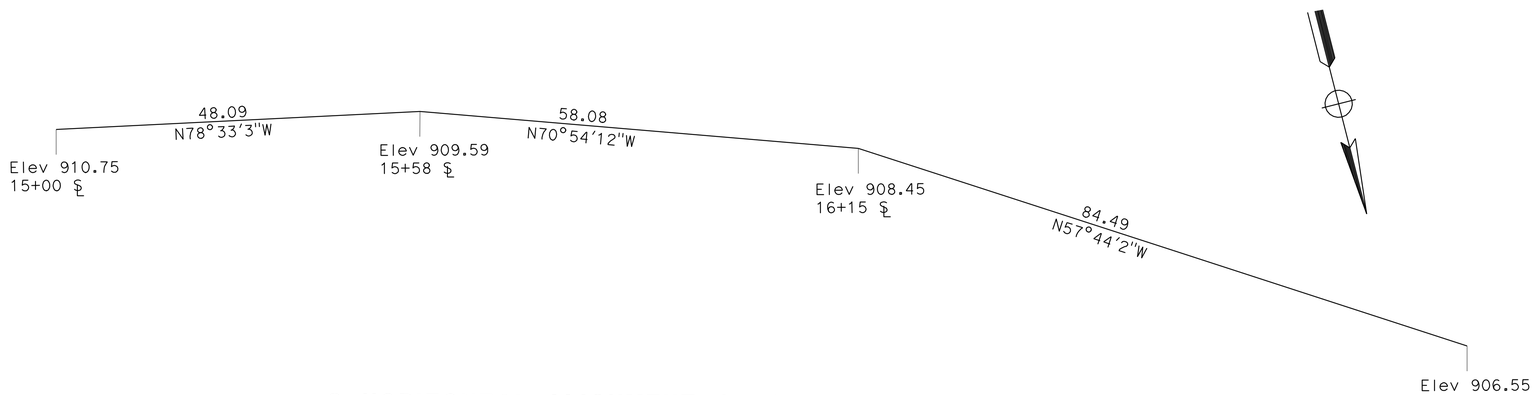
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	5	20

REGISTERED CIVIL ENGINEER 4-16-12 DATE

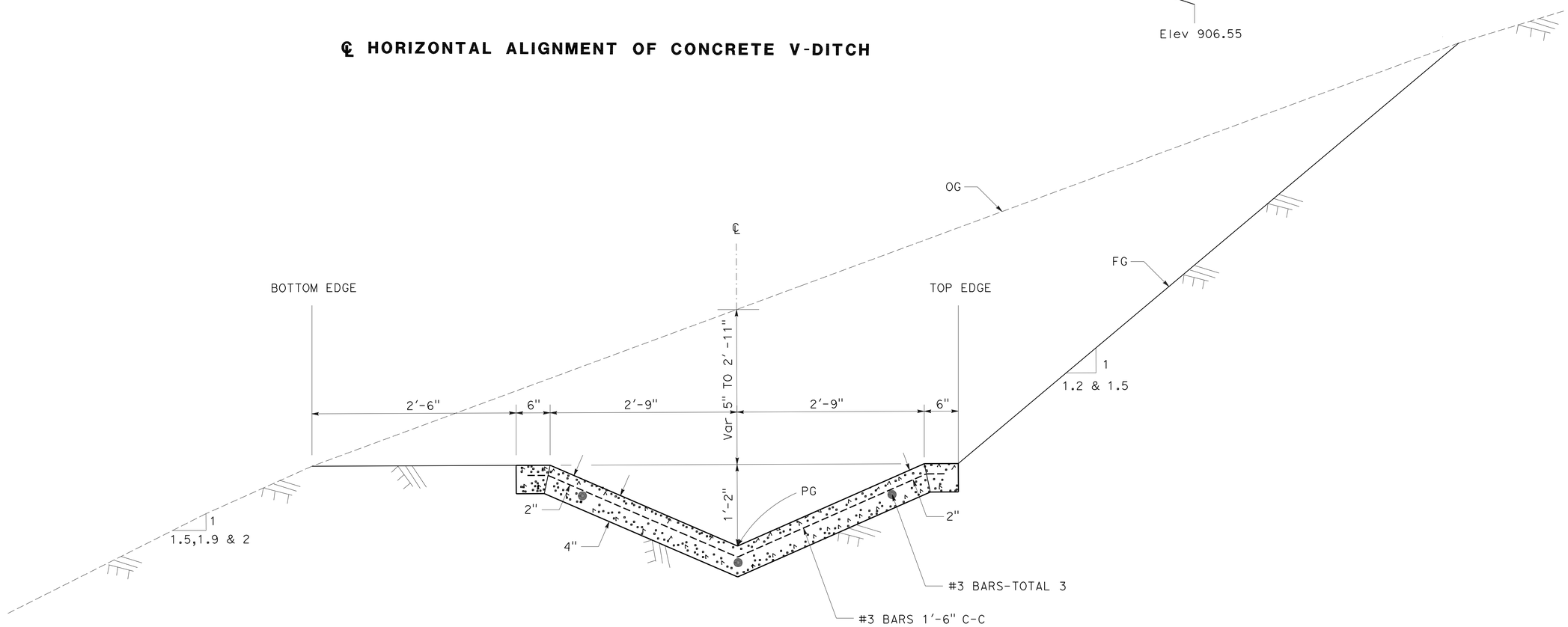
6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
GIAP M. HOANG
No. 31769
Exp. 12/31/12
CIVIL
STATE OF CALIFORNIA

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



℄ HORIZONTAL ALIGNMENT OF CONCRETE V-DITCH



CROSS SECTION OF CONCRETE V-DITCH AND BENCH

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: O.C. LEE
CALCULATED-DESIGNED BY: RAKESH KARKI
CHECKED BY: GIAP M. HOANG
REVISED BY
DATE REVISED

LAST REVISION 04-12-12
DATE PLOTTED => 27-AUG-2012
TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	6	20

LICENSED LANDSCAPE ARCHITECT

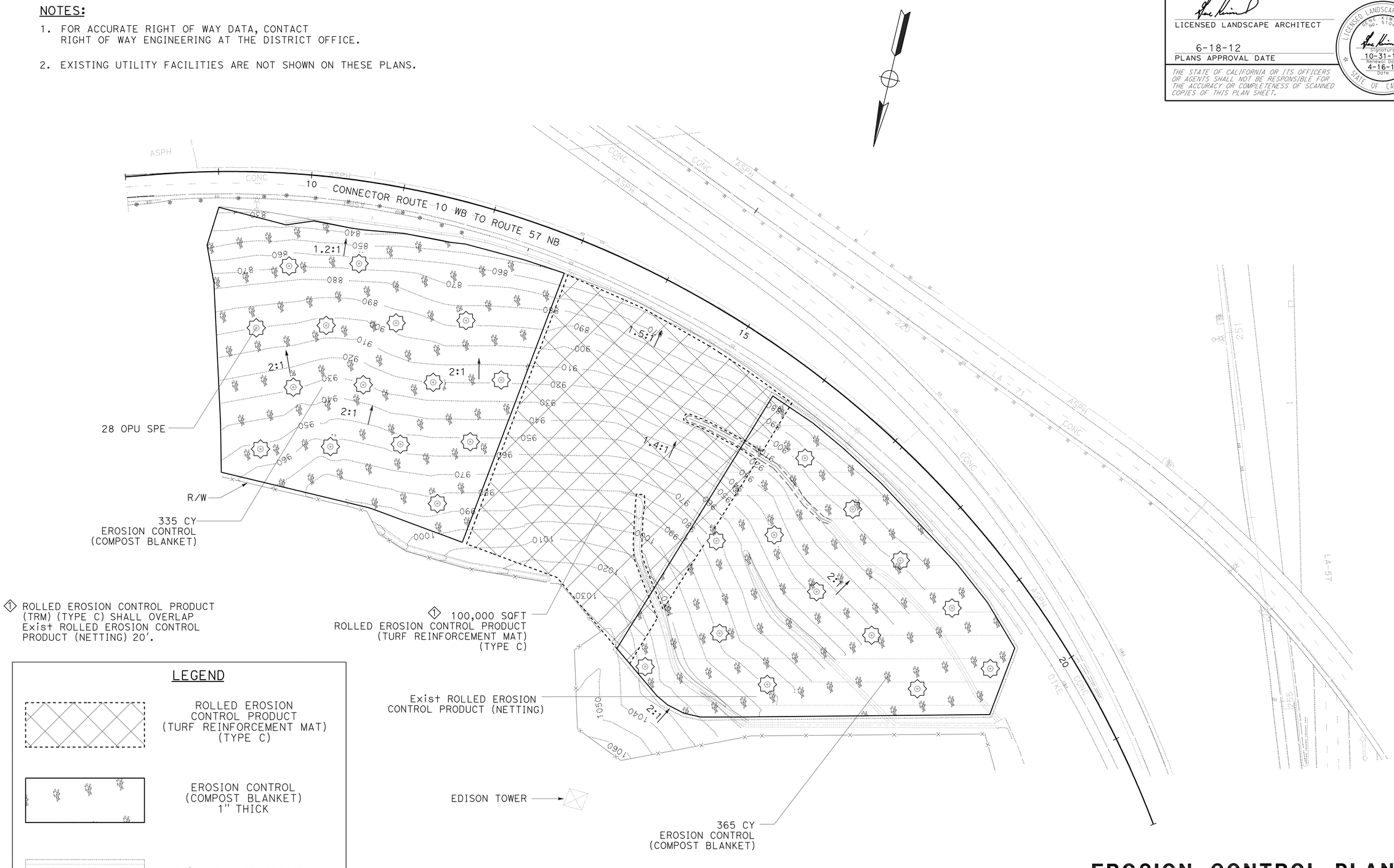
6-18-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
GENE KIMMEL
No. 5104
Signature
10-31-12
Renewal Date
4-16-12
Date
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. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.



APPROVED FOR PLANTING AND EROSION CONTROL WORK ONLY

EROSION CONTROL PLAN

SCALE: 1" = 50'

EC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: JENNIFER TAIRA

CALCULATED-DESIGNED BY: GENE KIMMEL
CHECKED BY: JENNIFER TAIRA

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 27-AUG-2012
TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	7	20

REGISTERED CIVIL ENGINEER 4-16-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GIAP M. HOANG No. 31769 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

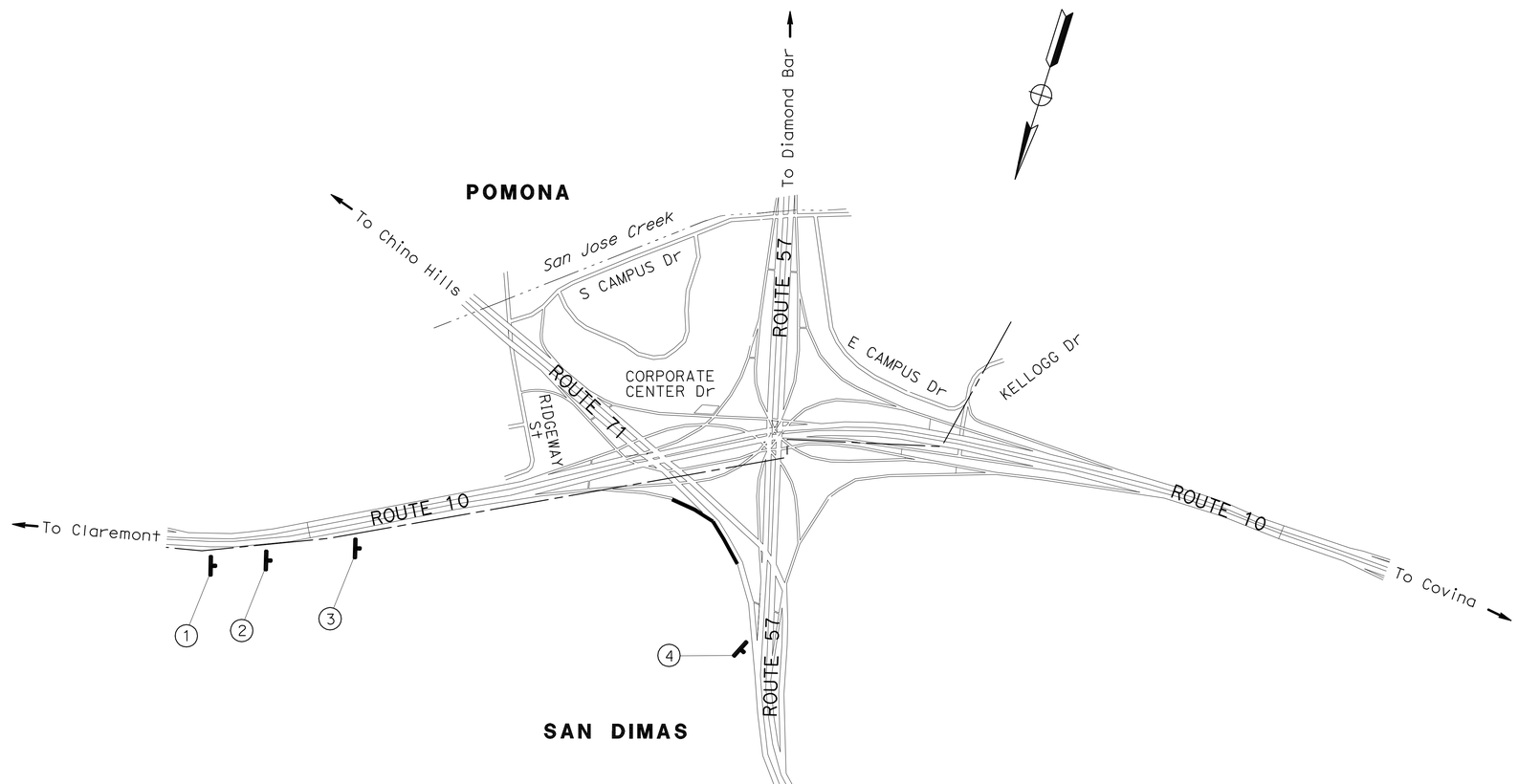
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
2. SIGN "C40" (TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES), SHALL BE BLACK LETTERS ON WHITE BACKGROUND.
3. SIGN CODES PER 2012 MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) AND CALIFORNIA SUPPLEMENT.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
1	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2-6" x 6"	1
2		C40	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2-6" x 8"	1
3	W21-5b		30" x 30"	RIGHT SHOULDER CLOSED AHEAD	1-6" x 6"	1
4	G20-2	C14	48" x 24"	END ROAD WORK	1-4" x 6"	1



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: O.C. LEE
CALCULATED-DESIGNED BY: RAKESH KARKI
CHECKED BY: GIAP M. HOANG
REVISED BY
DATE REVISED

LAST REVISION 03-15-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

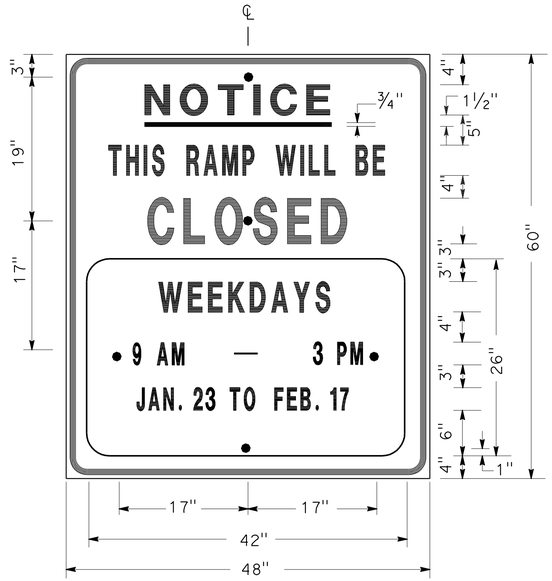
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	8	20

REGISTERED CIVIL ENGINEER 4-6-12 DATE

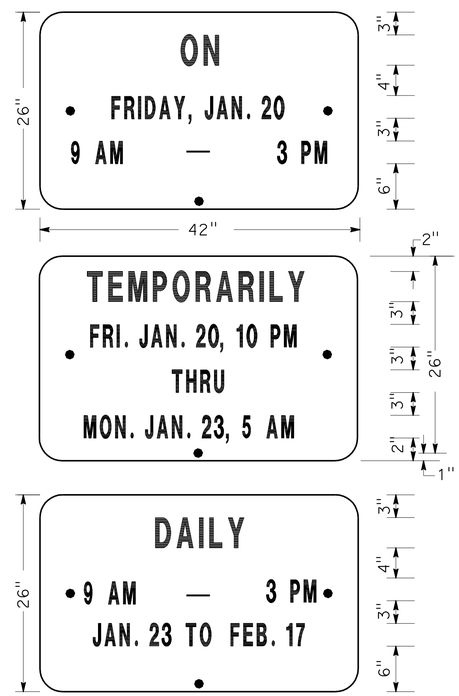
6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. 56816 Exp. 6-30-13 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.



SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

SPECIAL ADVANCE NOTICE PUBLICITY SIGN

NOTES: (SIGN SP-1)

1. SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
2. BOLT HOLES SHALL BE 3/8" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

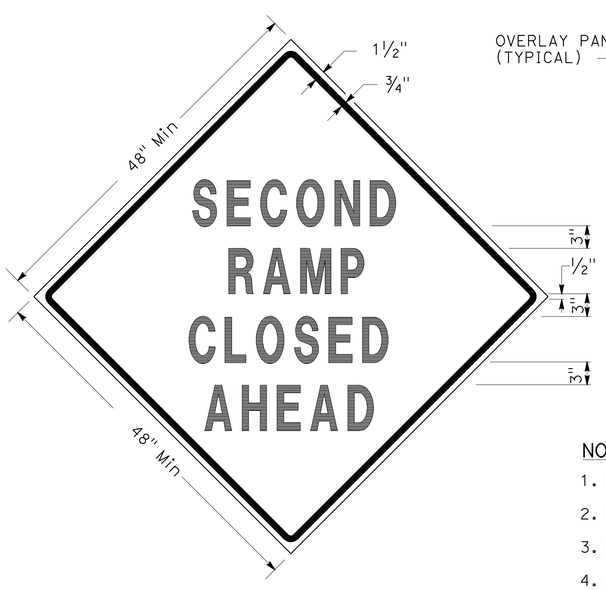
SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								

SIGN SP-4

NOTES: (SIGN SP-4)

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES



SIGN SP-3

SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SPECIAL SIGN FOR EXIT RAMP CLOSURES

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 04-12-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	9	20

REGISTERED CIVIL ENGINEER 4-6-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. 56816 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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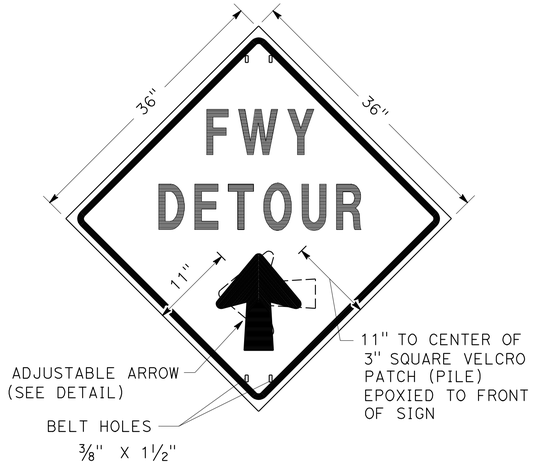
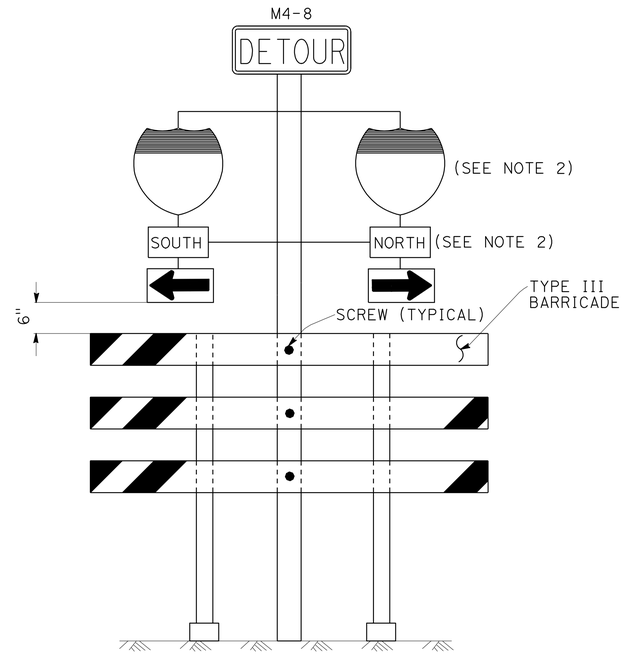
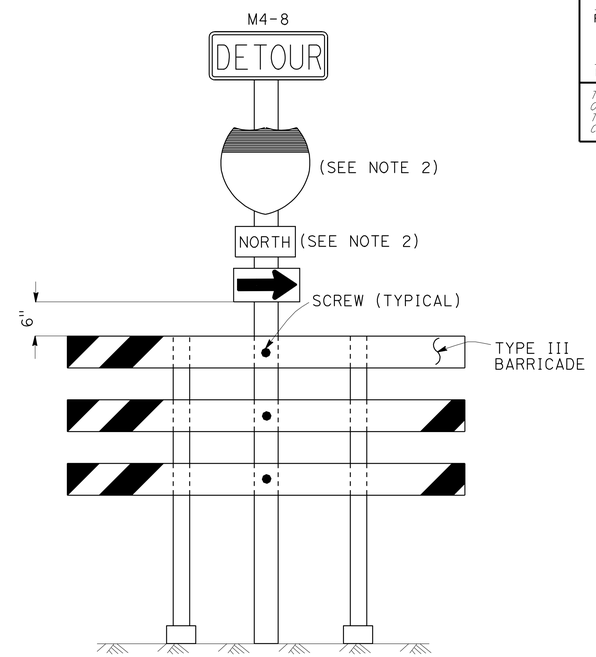


SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

1. LETTERS -6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

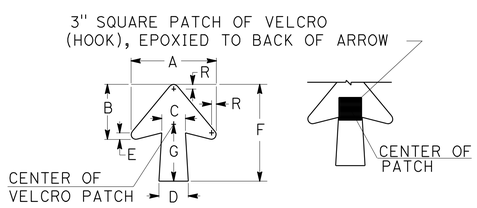
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

THD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 04-12-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

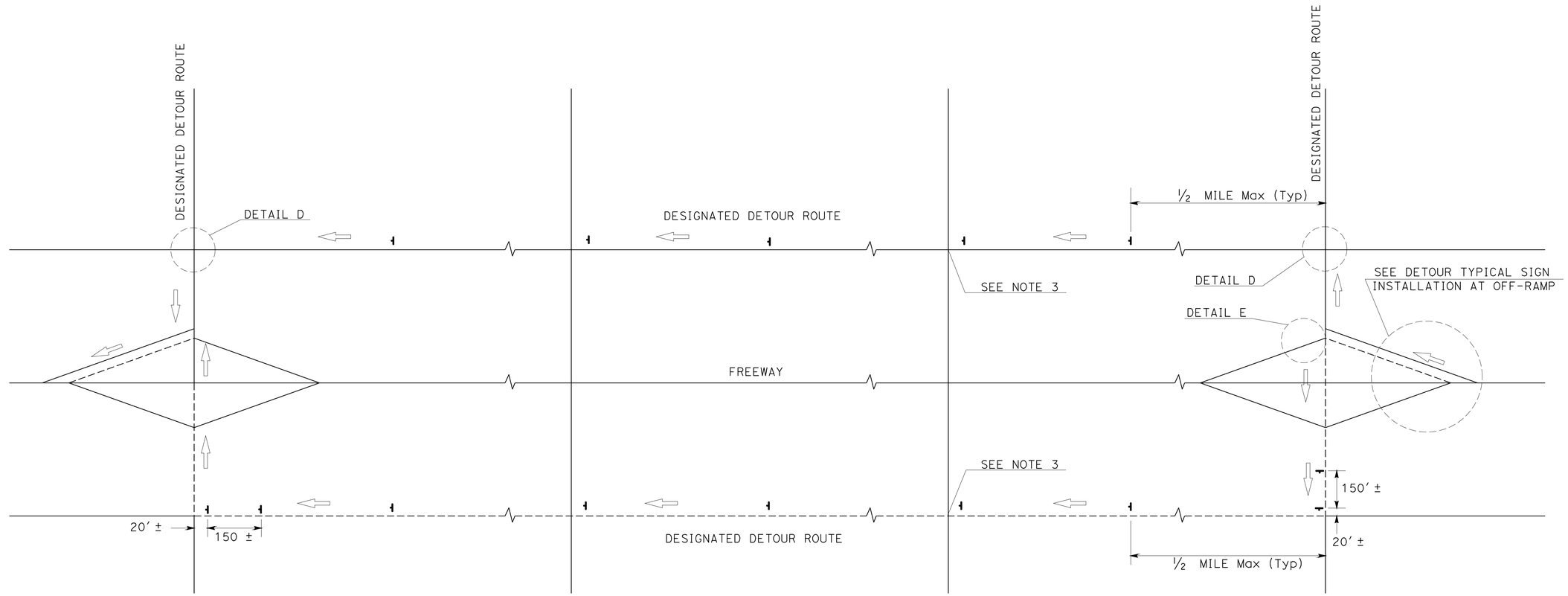
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	10	20

REGISTERED CIVIL ENGINEER 4-6-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. 56816 Exp. 6-30-13 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.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

LEGEND

- TEMPORARY SIGN (SP-2)
- AND/OR DESIGNATED DETOUR ROUTE
- DIRECTION OF TRAVEL

NOTES:

1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR ½ MILE MAXIMUM APART.

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

SHEET 1 OF 2

NO SCALE

THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 04-12-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	11	20

REGISTERED CIVIL ENGINEER 4-6-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARTIN OREGEL No. 56816 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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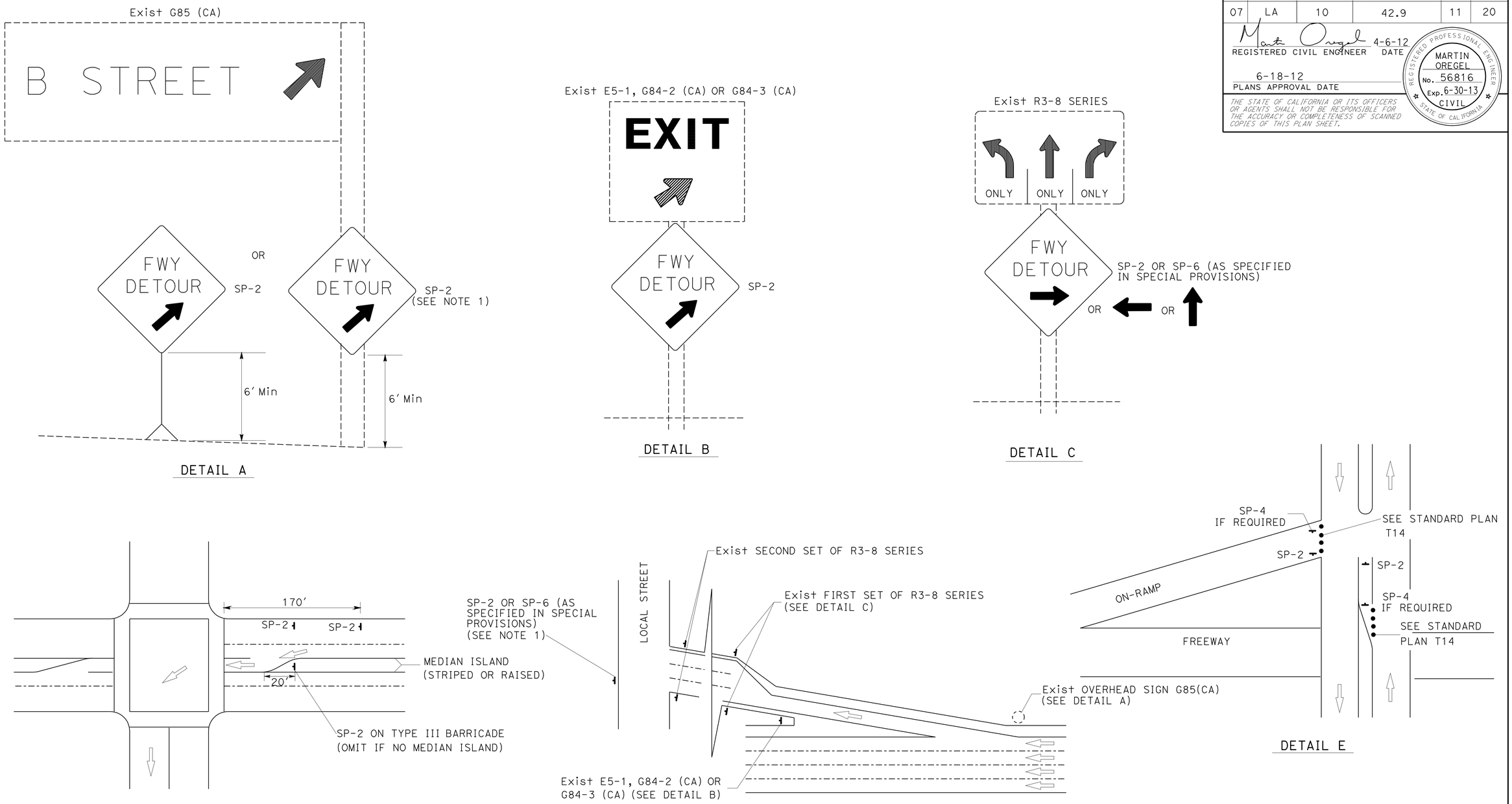


TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES:

1. TEMPORARY SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POSTS, OR SIGN POSTS.
2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.

ABBREVIATIONS

(CA) CALIFORNIA CODE

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- DIRECTION OF TRAVEL
- EXISTING OVERHEAD SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 2

NO SCALE

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: MARTIN OREGEL
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 8/10

LAST REVISION 04-12-12
DATE PLOTTED => 27-AUG-2012
TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	12	20

REGISTERED CIVIL ENGINEER 4-16-12 DATE

6-18-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GIAP M. HOANG No. 31769 Exp. 12/31/12 CIVIL STATE OF CALIFORNIA

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

ROADWAY QUANTITIES

LOCATION	SHEET No.	STATION	ROADWAY EXCAVATION	BAR REINFORCING STEEL (N)	CONCRETE (DITCH LINING)	CHANNELIZERS (SURFACE MOUNTED)	ROLLED EROSION CONTROL PRODUCT (TRM)	EROSION CONTROL (COMPOST BLANKET)
			CY	LB	CY	EA	SQFT	CY
ROUTE 10 WB TO ROUTE 57 NB CONNECTOR	L-1	STATION 8+00.00 TO 12+00.00				21		
		STATION 9+00.00 TO 13+00.00 AND STATION 15+90.00 TO 20+00.00						700
		STATION 9+73.48 TO 19+50.00						
		STATION 13+00.00 TO 15+90.00					100,000	
		STATION 15+00.00 TO 17+10.00	811	600	17			
		TOTAL	811	600	17	21	100,000	700

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

WATER POLLUTION CONTROL QUANTITIES

TEMPORARY GRAVEL BAG BERM	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY COVER	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)
LF	EA	SQYD	EA	SQYD
2000	1	150	5	1000

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: O.C. LEE
CALCULATED-DESIGNED BY: RAKESH KARKI
CHECKED BY: GIAP M. HOANG
REVISED BY
DATE REVISED

LAST REVISION 04-12-12 | DATE PLOTTED => 27-AUG-2012 | TIME PLOTTED => 07:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	13	20

LICENSED LANDSCAPE ARCHITECT

6-18-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
GENE KIMMEL
No. 5104
Signature
10-31-12
Renewal Date
4-16-12
Date
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.

PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE ①	SOIL AMEND ①	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH (CY)	STAKING	PLANTING LIMITS MINIMUM DISTANCE (ft) FROM ETW	Pvmt	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (ft)	REMARKS
H	1	⊛	OPUNTIA SPECIES	PRICKLY PEAR	CUTTING	28	③	③	II	—	—	1/4 LB	—	0.1 ②	—	—	45	30	—	20	20	75	TAKE FULL PADS FROM REPRESENTATIVE LOCALLY GROWING HEALTHY SPECIMENS WITHIN THE STATE R/W. ALLOW CUT TO DEVELOPE CALLUS BEFORE PLANTING.

APPLICABLE WHEN CIRCLED:

① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
② - USE COMPOST WITHOUT SEED MIX AS BASIN MULCH (REFER TO SPECIAL PROVISIONS).
③ - SUFFICIENT TO RECEIVE 1/3 TO 1/2 THE PAD.
4 - SEE DETAIL
5 - SEE SPECIAL PROVISIONS
6 - SEE STANDARD SPECIFICATIONS
7 - AS SHOWN ON PLANS
8 - UNLESS OTHERWISE SHOWN ON PLANS
9 - FOLIAGE PROTECTOR REQUIRED
10 - ROOT PROTECTOR REQUIRED
11 - ROOT BARRIER REQUIRED
12 - STATE-FURNISHED

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

PLANT LIST
PL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: JENNIFER TAIRA
CALCULATED-DESIGNED BY: GENE KIMMEL
CHECKED BY: JENNIFER TAIRA
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 27-AUG-2012
TIME PLOTTED => 07:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.9	14	20

LICENSED LANDSCAPE ARCHITECT

June 5, 2009
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.

LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2576
10-31-09 Expiration Date
2-28-11 Renewal Date
5-14-09 Date
STATE OF CALIFORNIA

To accompany plans dated 6-18-12

A

AB	aggregate base
ABS	acrylonitrile-butadiene-styrene
AC	asphalt concrete
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
BPAE	backflow preventer assembly in enclosure
BPE	backflow preventer enclosure
BV	ball valve

C

CAP	corrugated aluminum pipe
CARV	combination air release valve
CCA	cam coupler assembly
CEC	controller enclosure cabinet
CHDPE	corrugated high density polyethylene
CL	chain link
CNC	control and neutral conductors
Conc	concrete
Cond	conduit
CSP	corrugated steel pipe
CST	center strip
CV	check valve

D

Dia	diameter
DIP	ductile iron pipe
DN	diameter nominal

E

EA	each
Elect	electric/electrical
Elev	elevation
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
FAU	filter assembly unit
FCV	flow control valve
FERT	fertilizer
FG	finished grade
FIPT	female iron pipe thread
FIS	fertilizer injector system
FL	flow line
FM	flow monitor
FS	flow sensor
Ft	foot/feet
FV	flush valve

G

GAL	Gallon(s)
Galv	galvanized
GARV	garden valve
GPH	gallons per hour
GPM	gallons per minute
GSP	galvanized steel pipe
GV	gate valve

H

H	half circle
HB	hose bib
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
In	inches
IFS	irrigation filtration system
IPS	iron pipe size
IPT	iron pipe thread
Irr	irrigation

L

L	length
LF	linear foot

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
Mtl	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
Oz	ounce

P

P	part circle
PB	pull box
PCC	portland cement concrete
PE	polyethylene
Pkt	packet
PL	plastic
PLT	plant/planting
PLT ESTB	plant establishment
PM	post mile
PR	pressure rated
PRLV	pressure relief valve
PSFM	polymer stabilized fiber matrix
PSI	pounds per square inch
PRV	pressure reducing valve
PVC	polyvinyl chloride
Pvmt	pavement

Q

Q	quarter circle
QCV	quick coupling valve

R

R	radius
RCP	reinforced concrete pipe
RCV	remote control valve
RCVM	remote control valve (master)
RCVMF	remote control valve (master) w/ flow meter
RCW	recycled/reclaimed water
RECP	rolled erosion control product
REQ	required
R/W	right of way

S

S	slip
SCC	sprinkler control conduit
SCH	schedule
SF	state-furnished
Shld	shoulder
SQFT	square foot/feet
SQYD	square yard(s)
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
TRVD	traveled
TT	two third circle
Typ	typical

U

UG	underground

V

VAU	valve assembly unit

W

W	width
W/	with
WM	water meter
WS	wye strainer
WSP	welded steel pipe
WWM	welded wire mesh

NOTE:

FOR ADDITIONAL ABBREVIATIONS, SEE STANDARD PLANS A10A AND A10B.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PLANTING AND IRRIGATION ABBREVIATIONS

NO SCALE

RSP H1 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H1
DATED MAY 1, 2006 - PAGE 201 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H1

2006 REVISED STANDARD PLAN RSP H1

5-28-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.9	15	20

LICENSED LANDSCAPE ARCHITECT

June 5, 2009
PLANS APPROVAL DATE

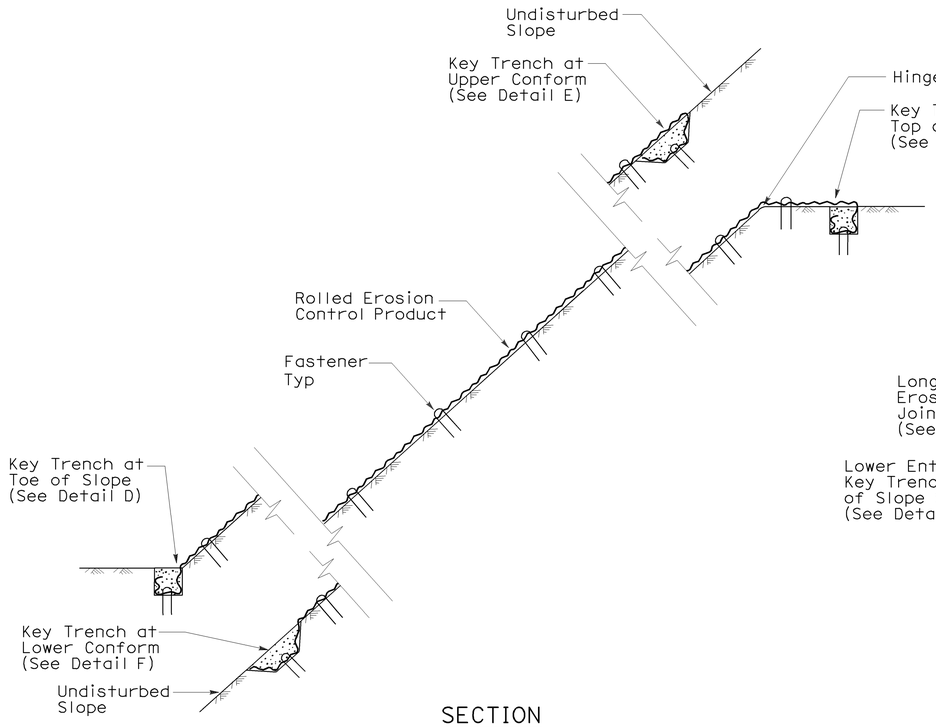
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LANDSCAPE ARCHITECT — Gregory A. Balzer — 2978 — 2-28-11 Renewal Date — 5-14-09 Date — STATE OF CALIFORNIA

To accompany plans dated 6-18-12

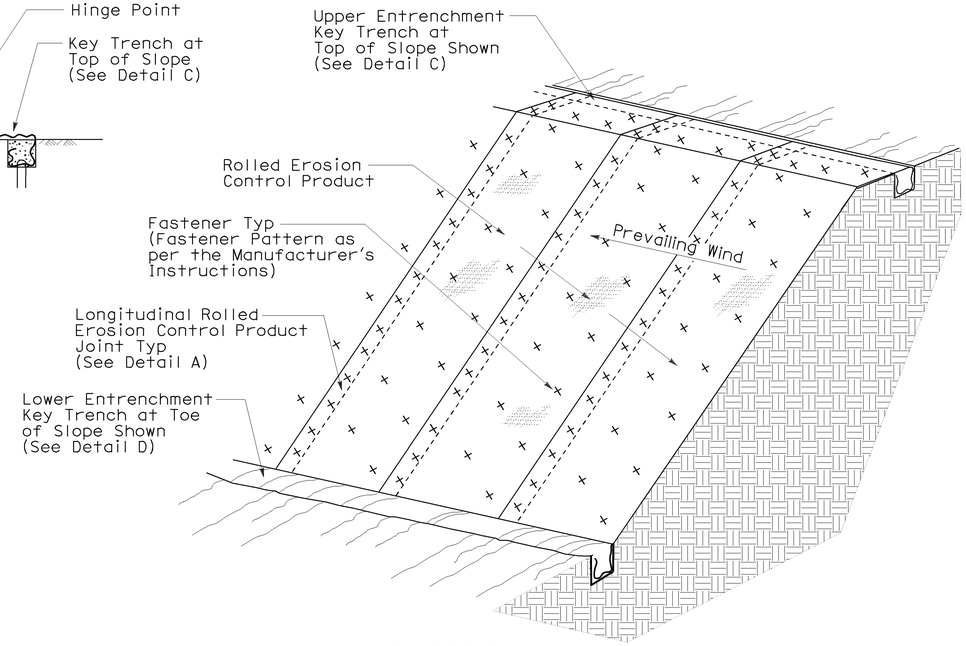
NOTE:

1. Fiber Roll/Compost Sock shown for reference purposes only.
2. If transverse rolled erosion control product joints are required on slopes, see Detail B.



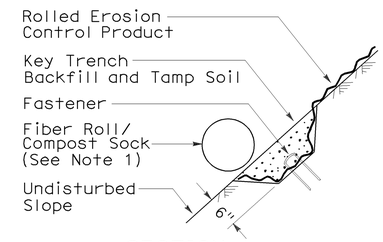
SECTION

ROLLED EROSION CONTROL PRODUCT ON SLOPE WITH VARIOUS KEY ENTRENCHMENTS



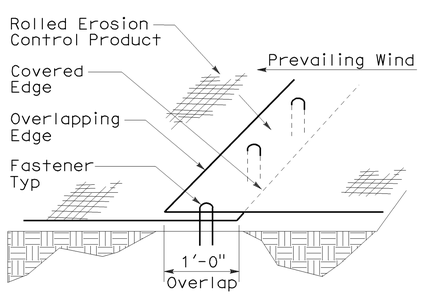
ISOMETRIC

ROLLED EROSION CONTROL PRODUCT ON SLOPE



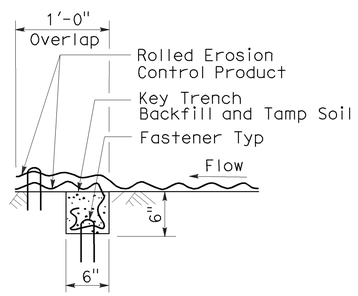
SECTION

DETAIL F
KEY TRENCH AT LOWER CONFORM



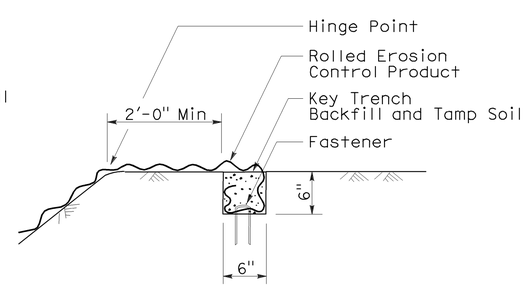
PERSPECTIVE

DETAIL A
LONGITUDINAL ROLLED EROSION CONTROL PRODUCT JOINT



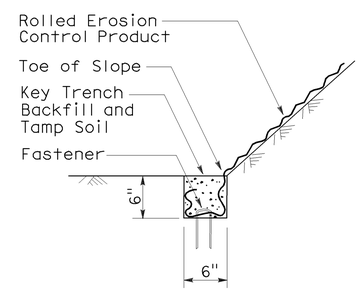
SECTION

DETAIL B
TRANSVERSE ROLLED EROSION CONTROL PRODUCT JOINT



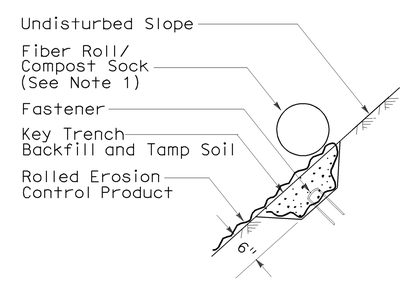
SECTION

DETAIL C
KEY TRENCH AT TOP OF SLOPE



SECTION

DETAIL D
KEY TRENCH AT TOE OF SLOPE



SECTION

DETAIL E
KEY TRENCH AT UPPER CONFORM

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ROLLED EROSION CONTROL PRODUCT

NO SCALE

NSP H53 DATED JUNE 5, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP H53

2006 NEW STANDARD PLAN NSP H53

3-4-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.9	16	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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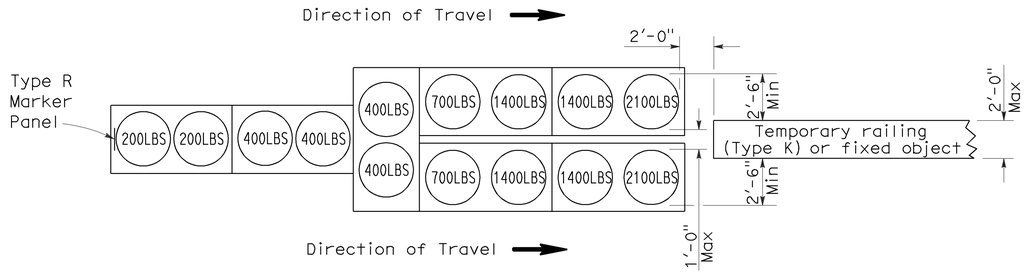
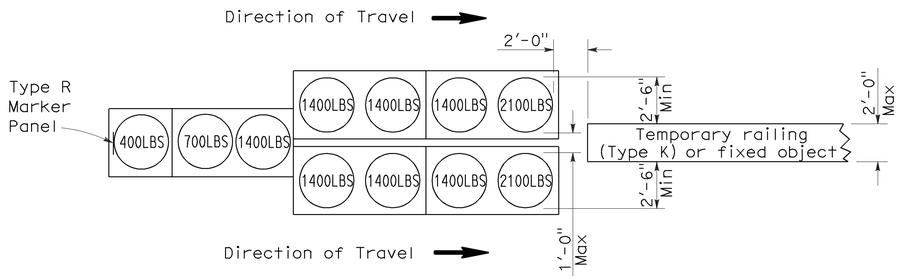
To accompany plans dated 6-18-12



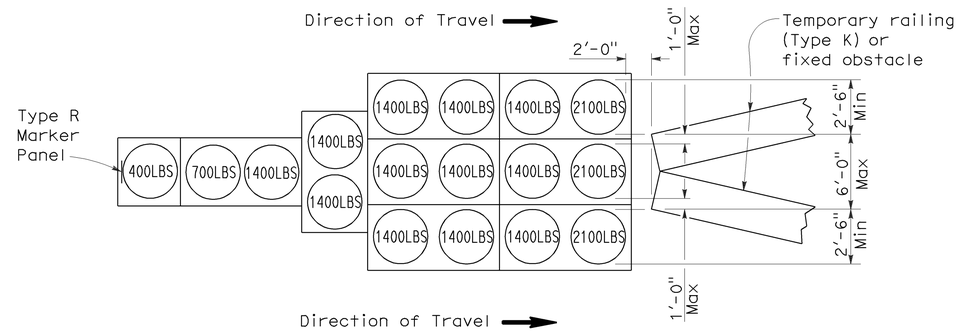
ARRAY 'TU14'

Approach speed 45 mph or more



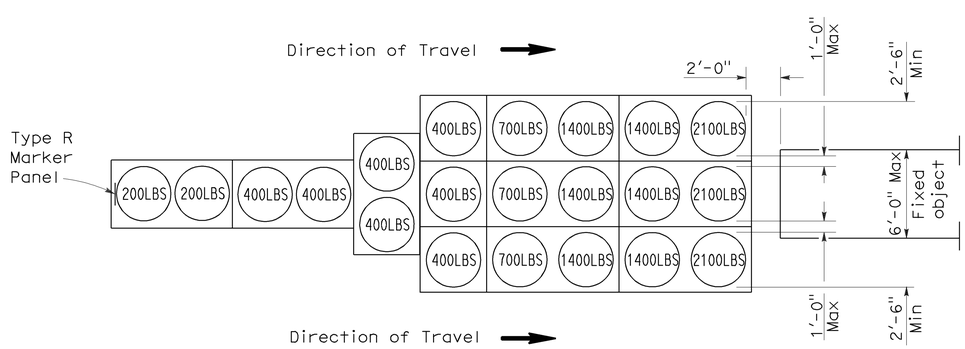
ARRAY 'TU11'

Approach speed less than 45 mph



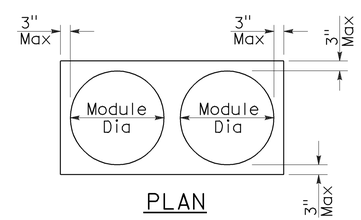
ARRAY 'TU17'

Approach speed less than 45 mph

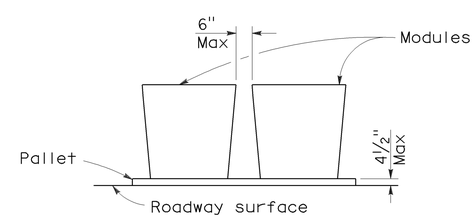


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.9	17	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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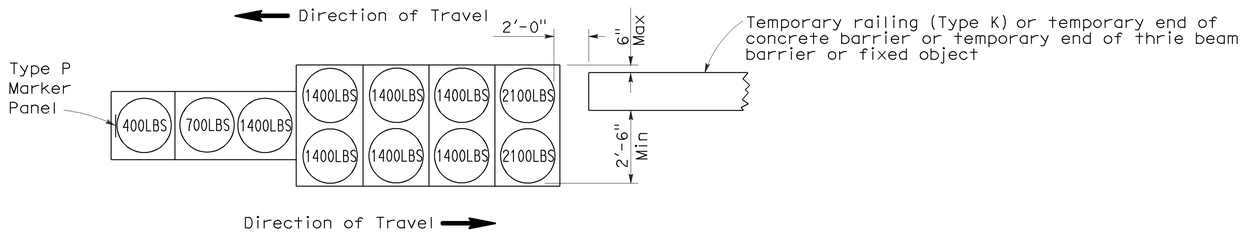
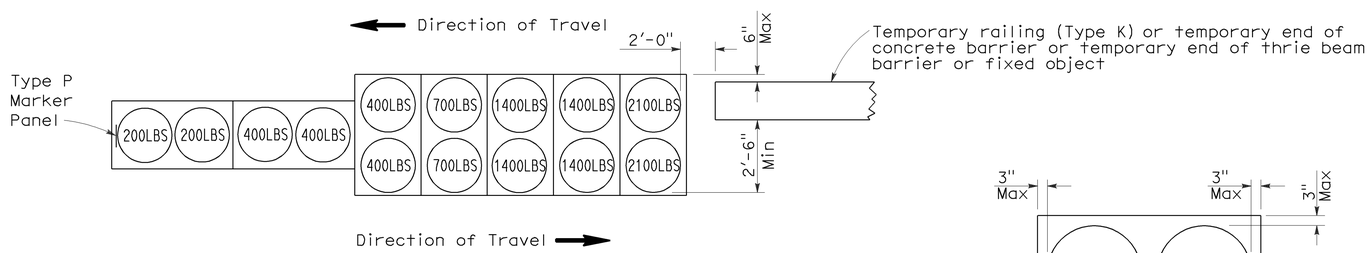
To accompany plans dated 6-18-12



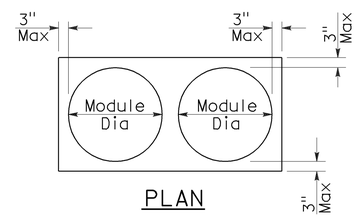
ARRAY 'TB11'

Approach speed less than 45 mph

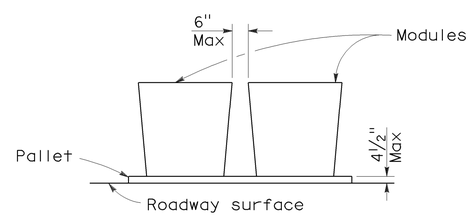


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.9	18	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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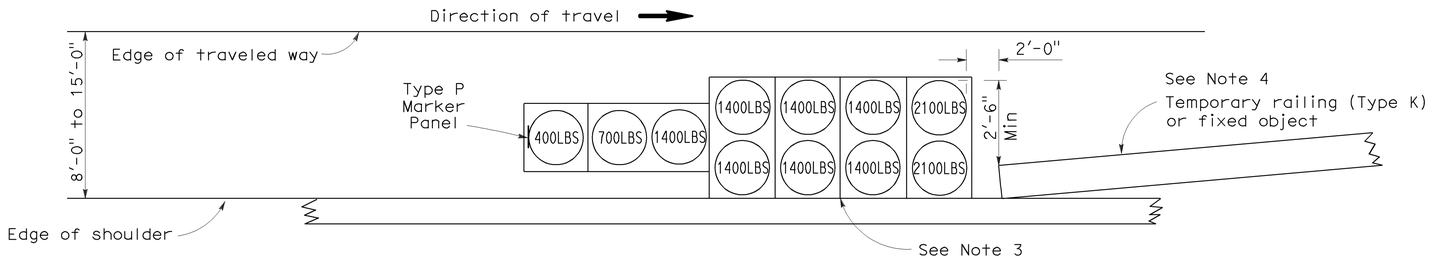
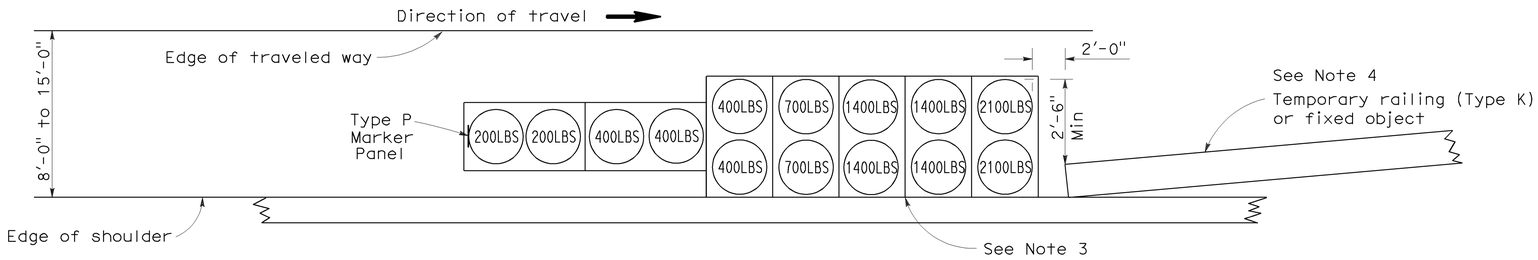
To accompany plans dated 6-18-12



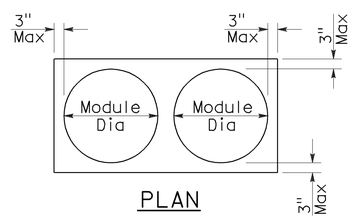
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

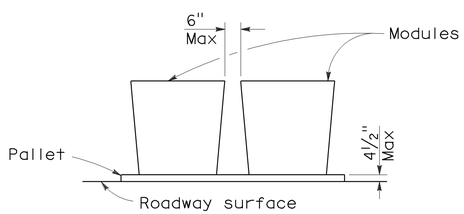


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	42.9	19	20

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

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

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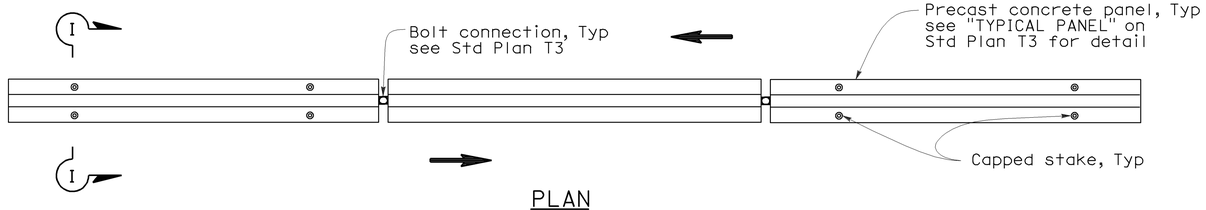
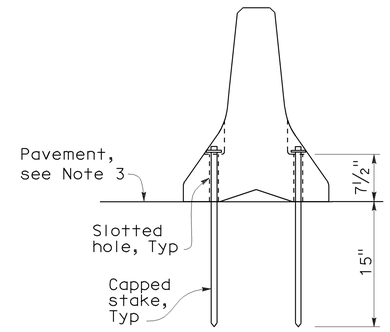
To accompany plans dated 6-18-12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

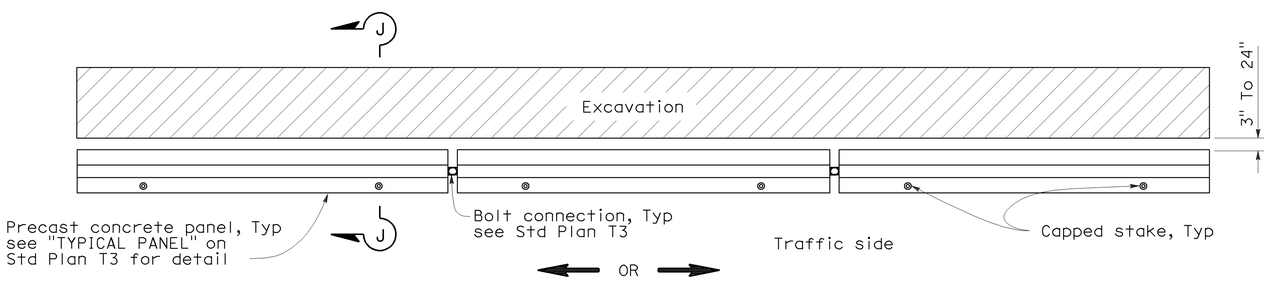
See Note 1



SECTION I-I

NOTES:

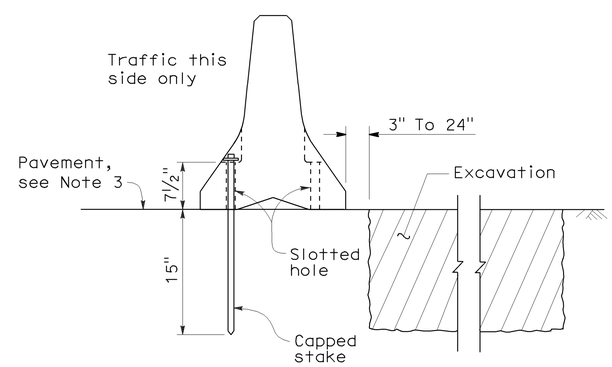
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



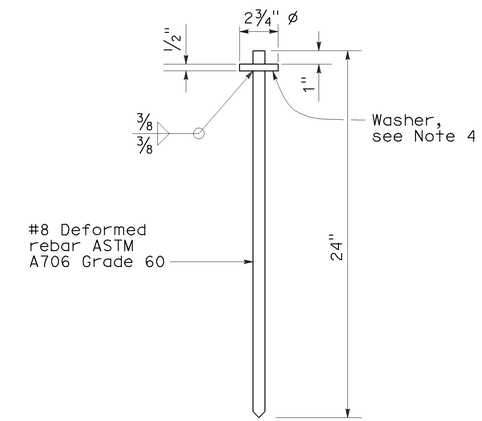
PLAN

RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION

See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY RAILING (TYPE K)

NO SCALE

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

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	10	42.9	20	20

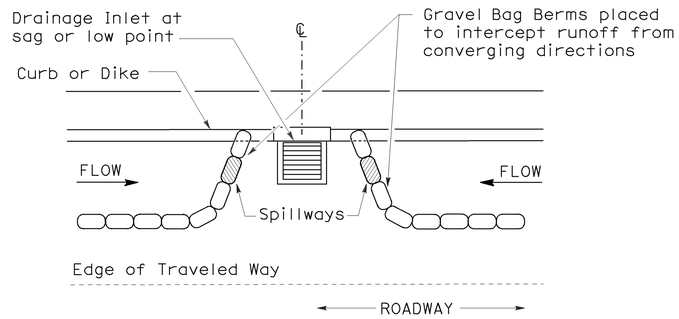
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

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

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

To accompany plans dated 6-18-12



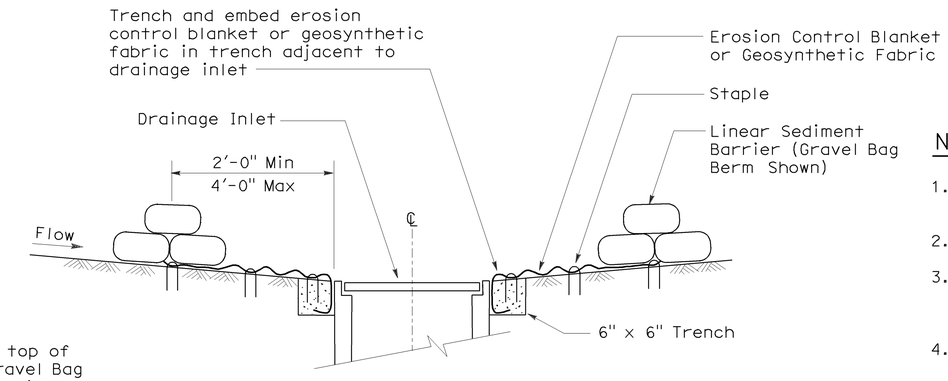
PLAN

CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100′	75′	50′	25′	12′

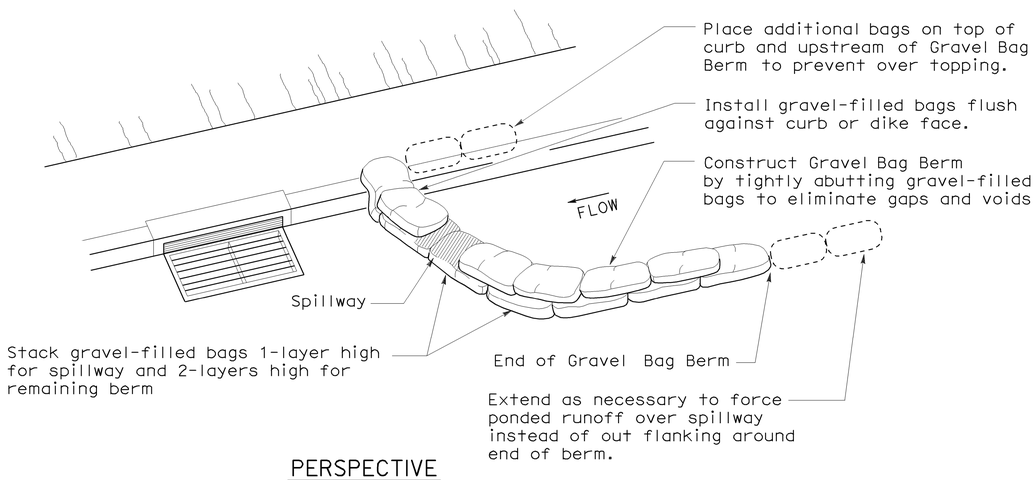
For slope of less than 1%, install barriers only if erosion/sediment is prevalent



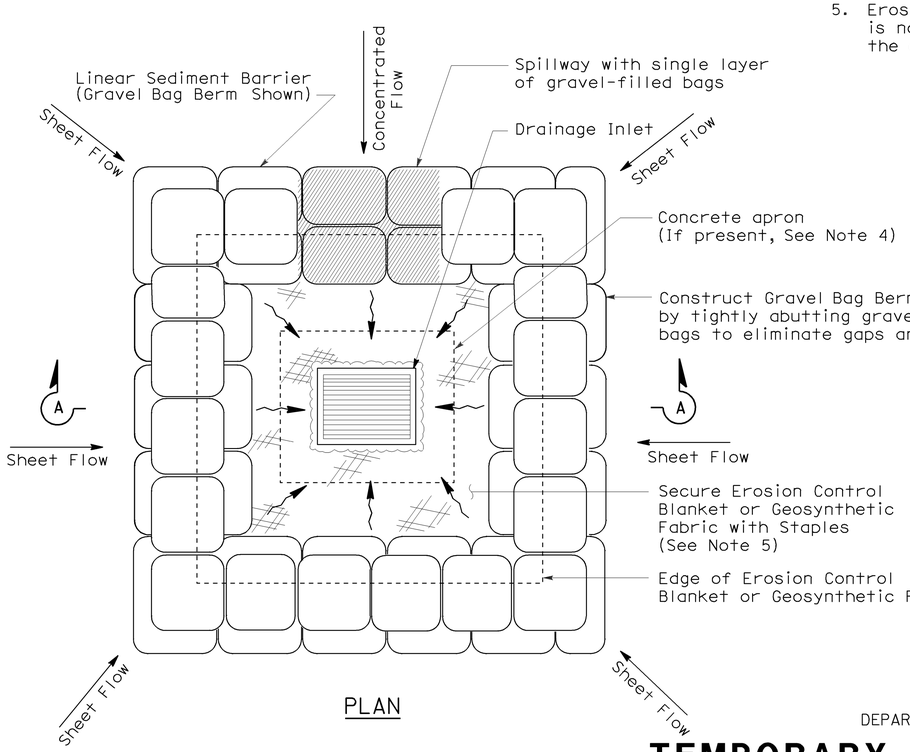
SECTION A-A

NOTES:

1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.

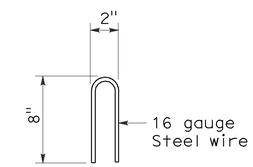


PERSPECTIVE

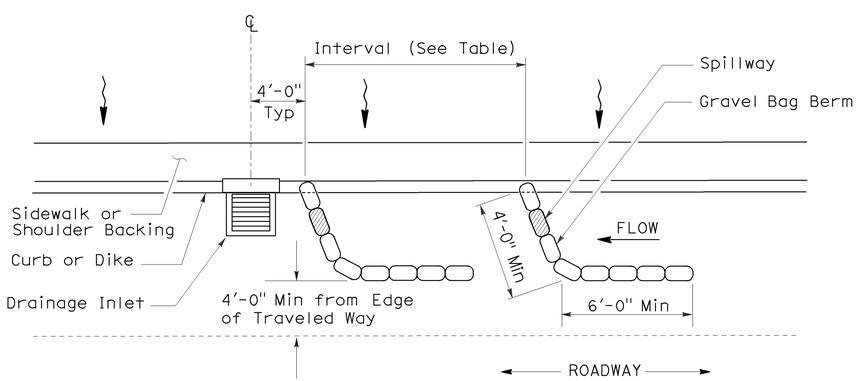


PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T62

2006 NEW STANDARD PLAN NSP T62

7-11-08