

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-6	DETOUR PLAN
7	PAVEMENT DELINEATION QUANTITIES
8	SUMMARY OF QUANTITIES
9	INDUCTIVE LOOP DETECTOR
10-18	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

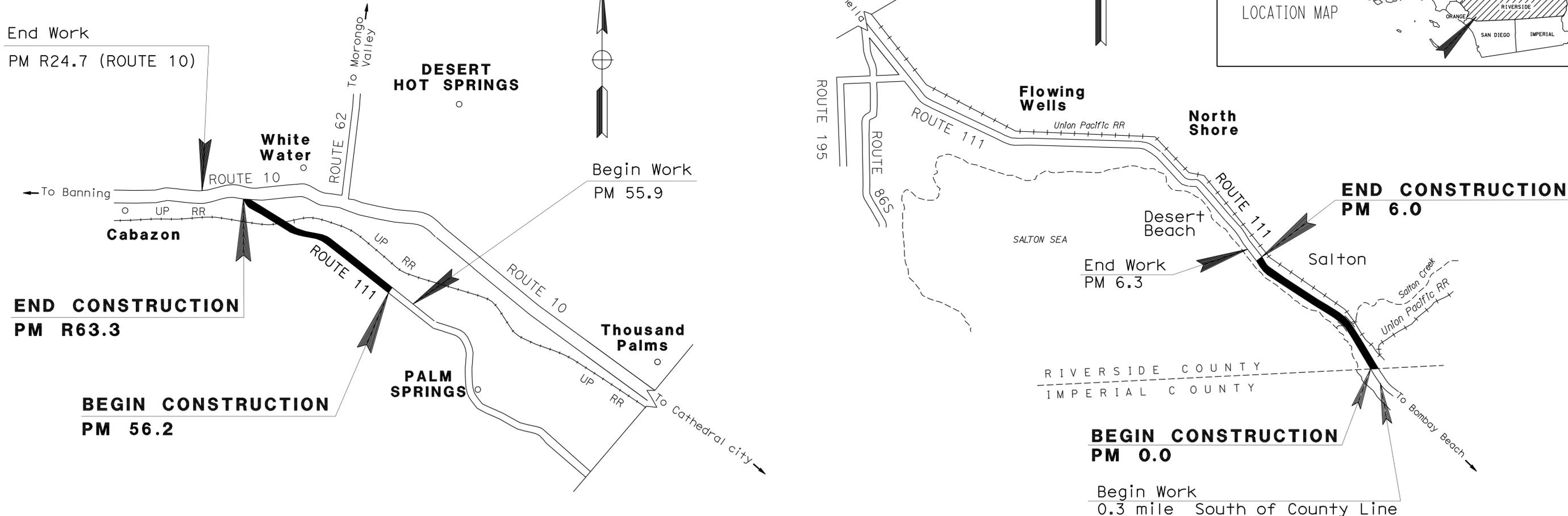
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN RIVERSIDE COUNTY
AT SALTON AND IN PALM SPRINGS
FROM RIVERSIDE-IMPERIAL COUNTY LINE
TO MECCA BEACH CAMP ROAD
AND FROM CHINO CREEK BRIDGE
TO ROUTE 111/10 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	1	18

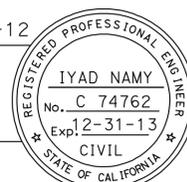
LOCATION MAP



PROJECT MANAGER
CATALINO PINING

DESIGN ENGINEER
IYAD NAMY

IAD 01-30-12
PROJECT ENGINEER REGISTERED CIVIL ENGINEER DATE



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.	08-0P9404
PROJECT ID	0800020042

NO SCALE

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

DATE PLOTTED => 02-FEB-2012 TIME PLOTTED => 10:42

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

REVISOR BY
 PHILLIP PHAN
 IYAD NAMY

DESIGNED BY
 CHECKED BY

SUPERVISOR
 KUANG CHEN

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. EXACT LIMITS OF WORK SHALL BE DETERMINED BY THE ENGINEER.
5. PROTECT IN PLACE EXISTING SURVEY MONUMENTS, EXACT LOCATION OF EXISTING SURVEY MONUMENTS (SHEET Q-1) SHALL BE DETERMINED BY THE ENGINEER.
6. FOR DIGOUT LOCATIONS AND DIMENSIONS SEE SHEET Q-1.
7. PLACE RHMA-G UP TO THE CURB AND GUTTER WHERE EXIST.

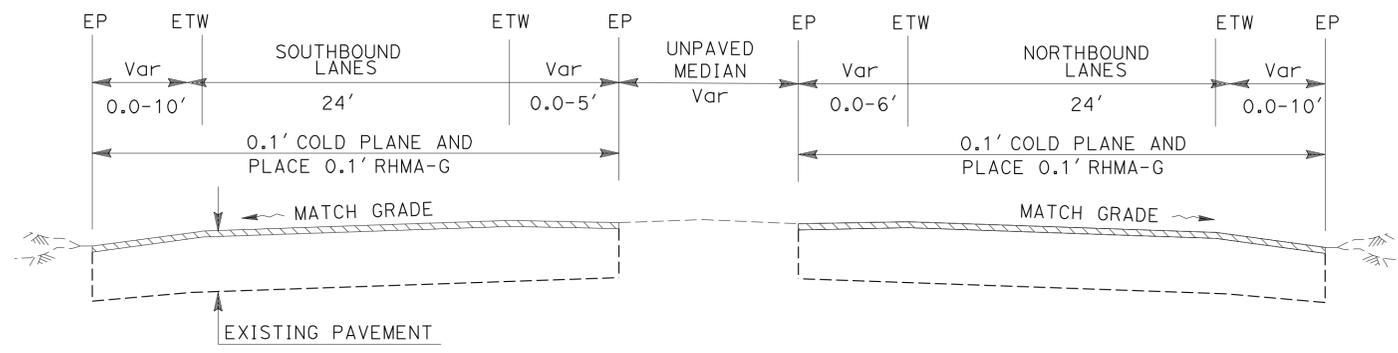
LEGEND:



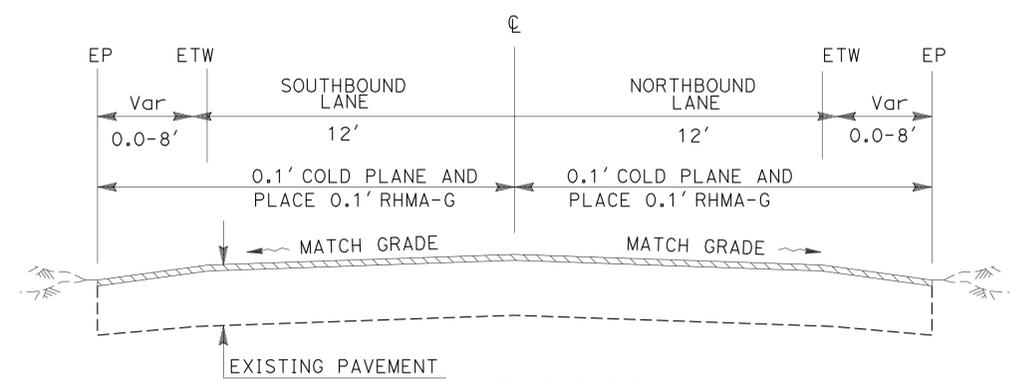
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	2	18

REGISTERED CIVIL ENGINEER IYAD NAMY
 No. C 74762
 Exp. 2-31-13
 CIVIL
 DATE 01-30-12
 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.



PM 56.2/R63.3



PM 0.0/6.0

ROUTE 111

TYPICAL CROSS SECTIONS

NO SCALE

X-1

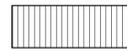
NOTES:

1. EXACT LIMITS OF WORK SHALL BE DETERMINED BY THE ENGINEER.

LEGEND:

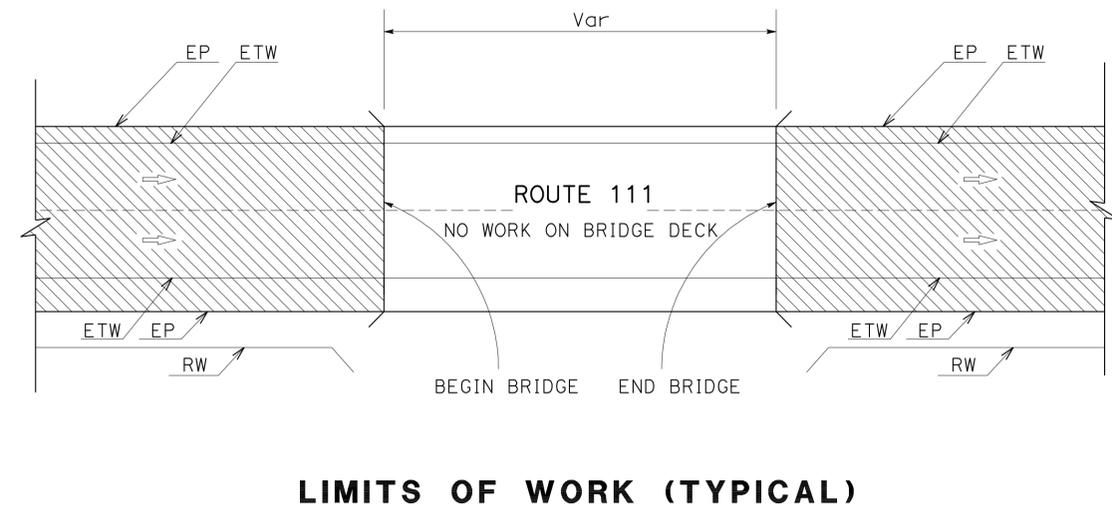
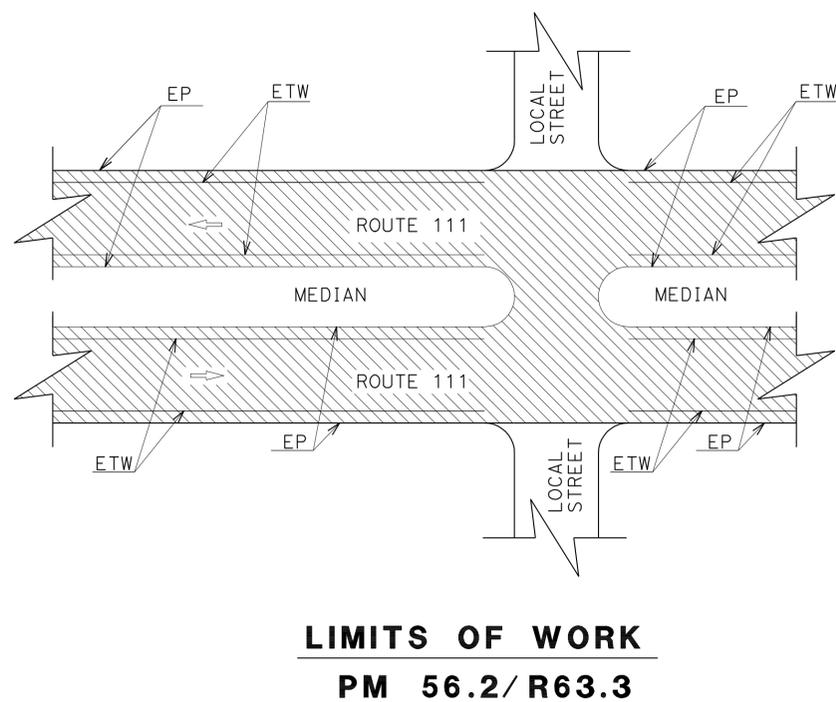
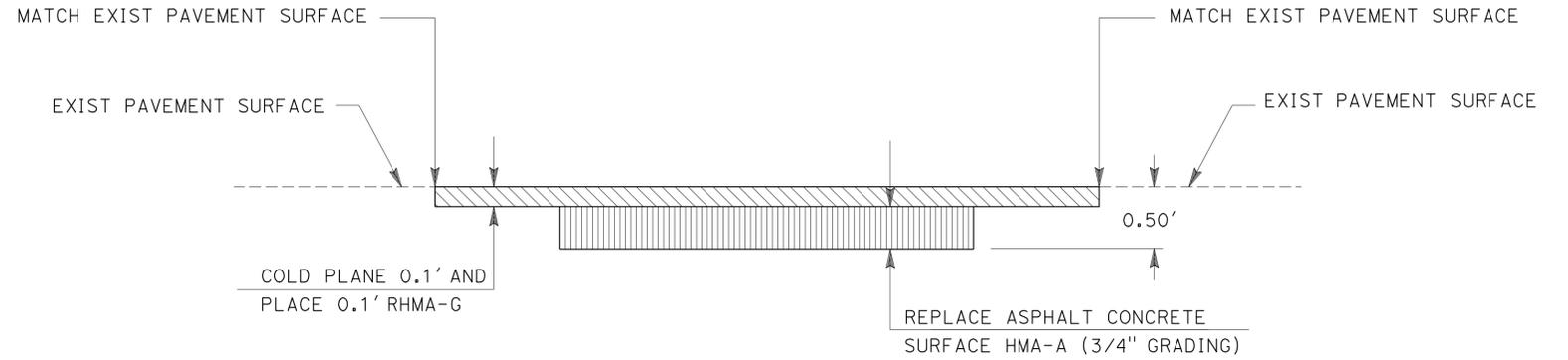
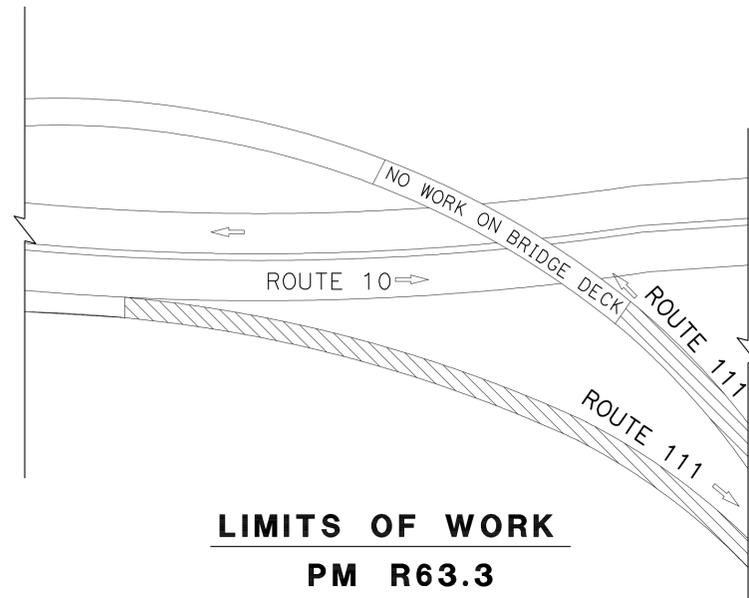


COLD PLANE 0.1 f+ AND PLACE 0.1 f+ RHMA-G ON MAIN LANES AND ON SHOULDERS FROM PM 0.0 TO 6.0 AND FROM 56.2 TO R63.3



DIG OUTS FOR LOCATIONS AND DIMENSIONS, SEE SHEET Q-1.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	3	18
			01-30-12	DATE	
REGISTERED CIVIL ENGINEER			IYAD NAMY No. C 74762 Exp. 2-31-13 CIVIL		
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.					



CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
KUANG CHEN

CALCULATED/DESIGNED BY
CHECKED BY

PHILLIP PHAN
IYAD NAMY

REVISED BY
DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	4	18

W.E. Wasser 01-30-12
 REGISTERED CIVIL ENGINEER DATE

W.E. WASSER
 No. 37378
 Exp. 01-30-12
 CIVIL

PLANS APPROVAL DATE _____

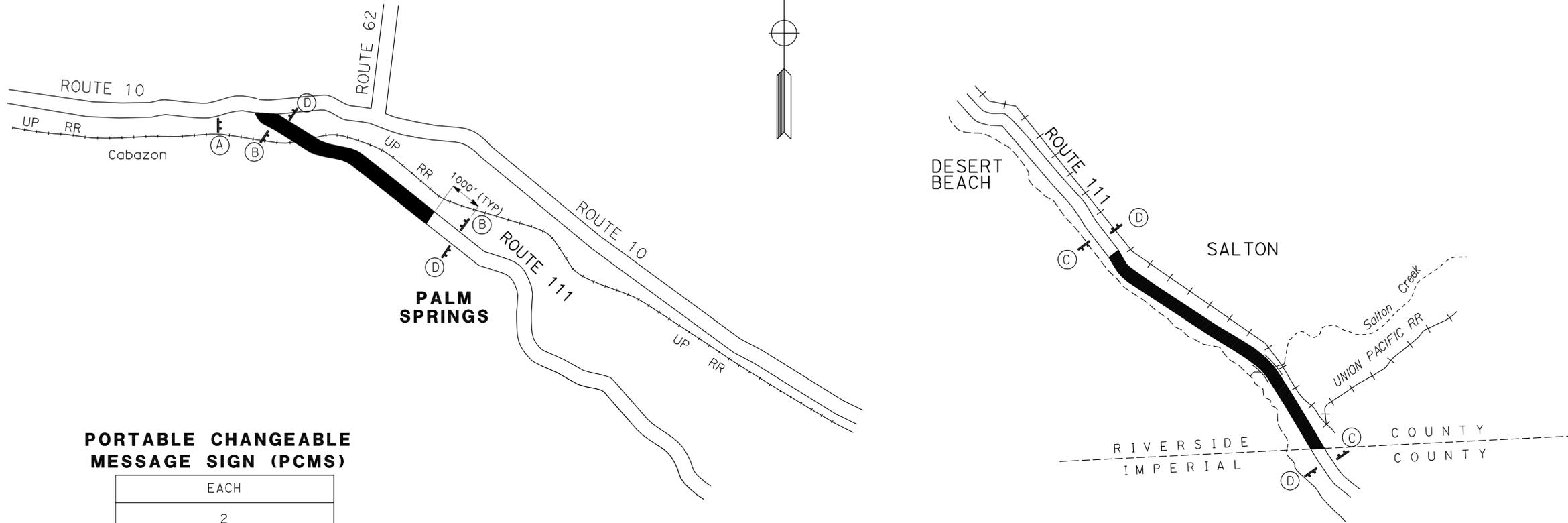
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- 1 - THE LOCATION OF CONSTRUCTION AREA SIGNS ON THE PLAN IS APPROXIMATE, THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER.
- 2 - ALL CONSTRUCTION AREA SIGNS MUST BE ACCORDING TO CALIFORNIA MUTCD.

LEGEND:

■ WORK AREA



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

EACH
2

LOCATION TO BE DETERMINED BY ENGINEER

STATIONARY CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	ROAD WORK AHEAD	48" X 48"	2 - 4" X 4"	1
(B)	G20-1	ROAD WORK NEXT 7 MILES	90" X 48"	2 - 6" X 6"	2
(C)	G20-1	ROAD WORK NEXT 6 MILES	90" X 48"	2 - 6" X 6"	2
(D)	G20-2	END ROAD WORK	42" X 18"	2 - 4" X 4"	4

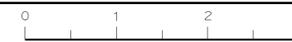
CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	5	18

W.E. Wasser 01-30-12
 REGISTERED CIVIL ENGINEER DATE

W.E. WASSER
 No. 37378
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE _____

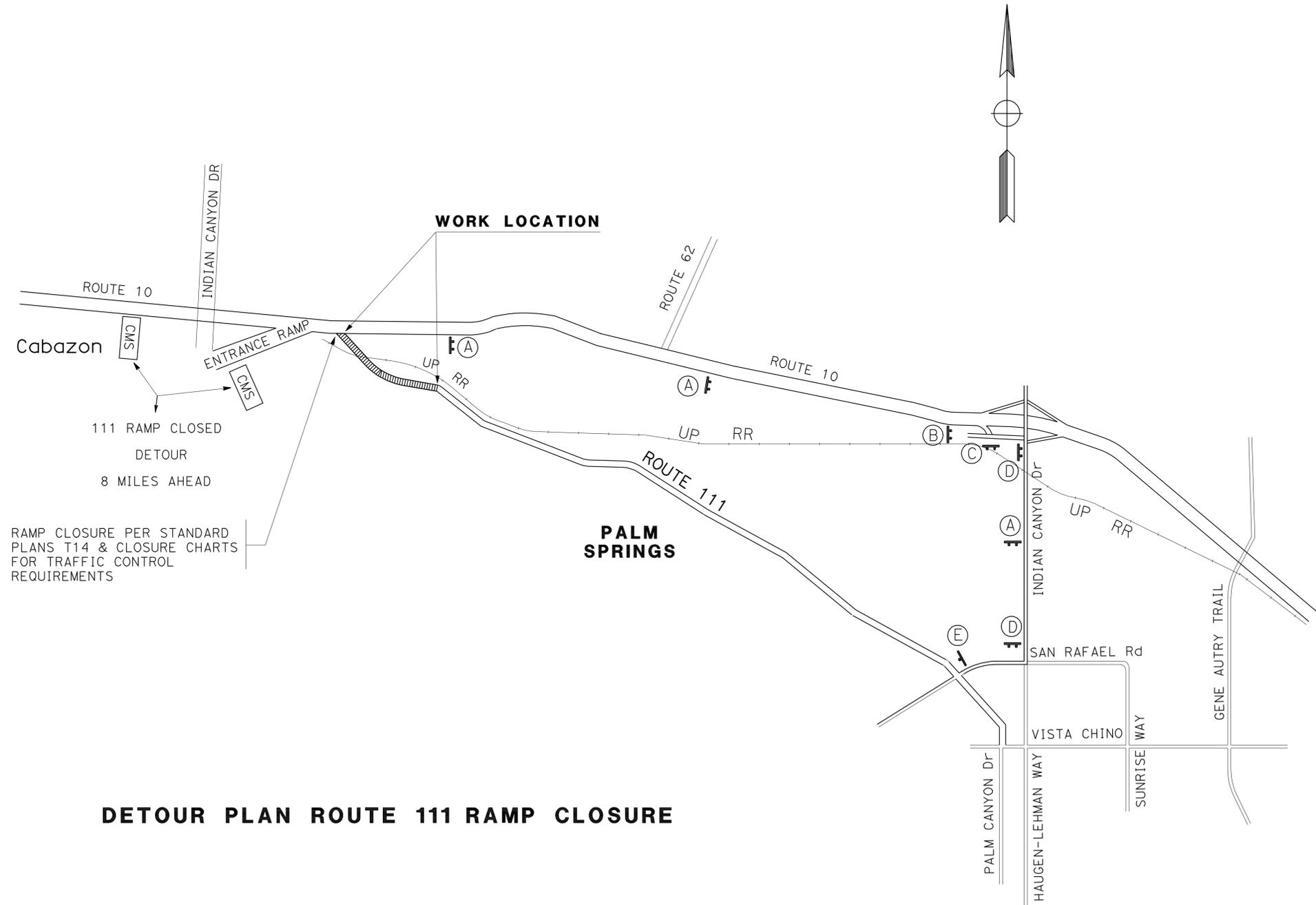
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- EXISTING SIGNS, CONFLICTING WITH CONSTRUCTION AREA SIGNS, SHOULD BE COVERED.

LEGEND:

-  CONSTRUCTION AREA SIGN (ONE-POST)
-  CONSTRUCTION AREA SIGN (TWO-POST)
-  CHANGEABLE MESSAGE SIGN
-  CONSTRUCTION AREA SIGN NUMBER



DETOUR PLAN ROUTE 111 RAMP CLOSURE

DETOUR PLAN

NO SCALE **DE-1**

APPROVED FOR DETOUR SIGN WORK ONLY



UNIT 2284

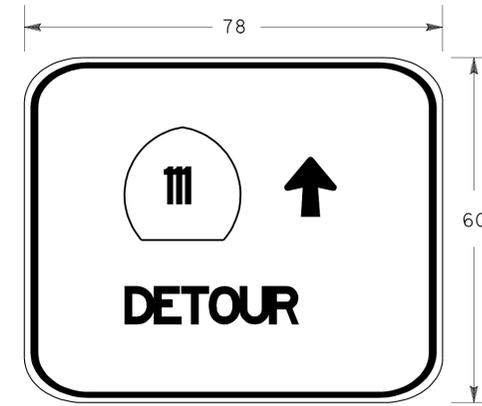
PROJECT NUMBER & PHASE

08000200421

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGNED BY	REVISOR	DATE
Caltrans TRAFFIC DESIGN	W.E. WASSER	S. MOKHTARI	
FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
W.E. WASSER	W.E. WASSER	S. MOKHTARI	

DETOUR SIGNS

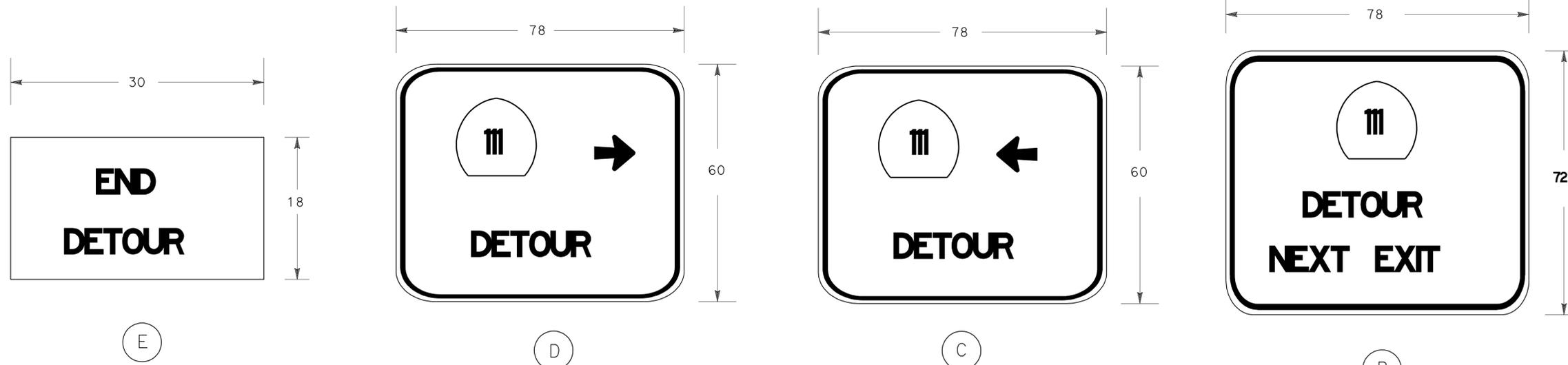
SIGN No.	SIGN CODE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)	SPECIAL 1	78" X 60"	2 - 6" X 6"	3	DETOUR WITH STRAIGHT ARROW
(B)	SPECIAL 2	78" X 72"	2 - 6" X 6"	1	DETOUR NEXT EXIT
(C)	SPECIAL 3	78 X 60	2 - 6" X 6"	2	DETOUR WITH LEFT ARROW
(D)	SPECIAL 4	78" X 60"	2 - 6" X 6"	1	DETOUR WITH RIGHT ARROW
(E)	M4-8A	30" X 18"	1 - 4" X 4"	1	END DETOUR



(A)
SPECIAL SIGN DETAIL

NOTES:

- BORDER & LEGEND - BLACK (NON-REFLECTIVE) BACKGROUND - ORANGE (REFLECTIVE)
- 8" LETTERING.



(E)
SPECIAL SIGN DETAIL

(D)
SPECIAL SIGN DETAIL

(C)
SPECIAL SIGN DETAIL

(B)
SPECIAL SIGN DETAIL

DETOUR PLAN

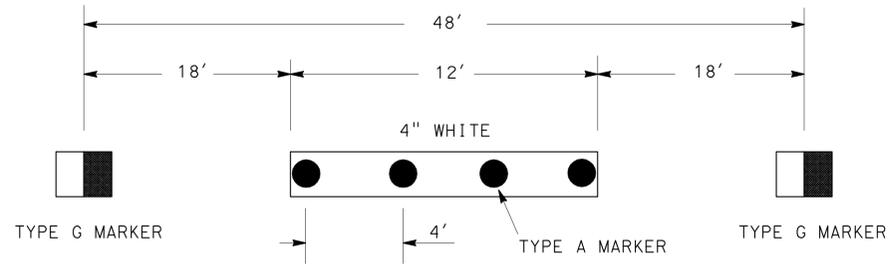
NO SCALE **DE-2**

THIS PLAN APPROVED FOR DETOUR SIGNS WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	7	18
<i>W.E. Wasser</i> REGISTERED CIVIL ENGINEER		01-30-12	DATE		
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:

NEEDED MARKER SHALL BE PLACED BEFORE MARKERS.



DETAIL 13 (MODIFIED)

PAVEMENT DELINEATION QUANTITIES

	DETAIL No.	REMOVE PAVEMENT MARKERS	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKERS			RECESSED PAVEMENT MARKERS			
				WHITE	YELLOW	RETRO-REFLECTIVE			NON-REFLECTIVE		RETRO-REFLECTIVE	
						EA	EA	EA	EA	EA	EA	
				EA	SQFT	LF	EA	EA	EA	EA	EA	EA
PM 56.2 TO PM R58.4 AND PM R60.9 TO PM R63.3	13 (MODIFIED)	9550		48600		1050			4080			
	25						1050					
	27B			48600								
	TYPE V ARROW			1546								
PM 58.4 TO PM R60.9	13 (MODIFIED)	9550		26400					2220	550		
	25										550	
	27B			26400								
	TYPE V ARROW			830								
PM 0.0 TO PM 6.0	6	9550			2000			50				
	27B			1000								
	SUB TOTAL	9550	2376	151000	77000	1050	1050	50	6300	550	550	
	TOTAL	9550	2376	228000		2150			6300	1100		

**PAVEMENT DELINEATION
QUANTITIES
PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR
 W.E. WASSER

CALCULATED-
DESIGNED BY
 CHECKED BY

MOKHTARI
 WASSER

REVISED BY
 DATE REVISED

x

x

x

x

x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	8	18

01-30-12
REGISTERED CIVIL ENGINEER DATE

IYAD NAMY
No. C 74762
Exp. 12-31-11
CIVIL

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.

REPLACE ASPHALT CONCRETE SURFACING (DIGOUTS) QUANTITIES

LOCATION#	POST MILE	DIRECTION	DIMENSIONS IN FT			VOLUME
			L	W	D	CY
1	0.01	NB	246	6	0.50	27.40
2	0.01	NB&SB	29	12	0.50	6.50
3	0.02	SB	135	6	0.50	15.00
4	0.22	SB	63	6	0.50	7.00
5	0.80	NB&SB	87	6	0.50	9.70
6	0.90	SB	67	6	0.50	7.50
7	1.10	NB&SB	19	6	0.50	2.20
8	1.10	SB	100	12	0.50	22.30
9	2.30	SB	28	6	0.50	3.20
10	2.30	SB	75	6	0.50	8.40
11	2.40	NB	20	6	0.50	2.30
12	2.42	NB	20	6	0.50	2.30
13	2.43	NB	23	12	0.50	5.20
14	2.50	NB	69	6	0.50	7.70
15	2.50	NB	99	6	0.50	11.00
16	2.99	NB	100	6	0.50	11.30
17	3.02	NB	65	6	0.50	7.30
18	3.91	NB	46	6	0.50	5.20
19	3.92	SB	290	6	0.50	32.30
20	3.94	SB	63	6	0.50	7.00
21	3.98	NB	83	6	0.50	9.30
22	3.99	NB&SB	54	18	0.50	18.00
23	4.02	NB	30	6	0.50	3.40
24	4.25	NB	30	6	0.50	3.40
25	4.25	SB	30	6	0.50	3.40
26	4.42	NB	31	6	0.50	3.44
27	4.50	NB	30	6	0.50	3.40
28	4.60	NB	30	6	0.50	3.40
29	4.60	NB	15	6	0.50	1.9
30	4.70	NB	44	6	0.50	4.90
31	4.71	NB	38	6	0.50	4.40
32	4.73	NB	30	12	0.50	6.70
33	5.01	NB	30	6	0.50	3.40
34	5.02	NB	30	6	0.50	3.40
35	5.10	SB	30	12	0.50	6.70
36	5.10	SB	35	18	0.50	11.80
37	5.20	NB	132	12	0.50	29.50
38	5.25	NB	80	6	0.50	8.90
39	5.80	NB&SB	133	6	0.50	14.80
40	5.90	SB	45	6	0.50	5.00
TOTAL						350.00

NOTE: EXACT LOCATION AND DIMENSION TO BE DETERMINED BY THE ENGINEER

PAVEMENT QUANTITIES

DESCRIPTION	PM	COLD PLANE AC PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP-GRADED)	TACK COAT
		(SQYD)	(TON)	(TON)
NB & SB	0.0 / 6.0	116200	7845	40
NB & SB	56.2 / R63.3	309200	21155	105
TOTAL		425400	29000	145

SURVEY MONUMENTS (PROTECT IN PLACE)

SURVEY MONUMENT DESCRIPTION	POST MILE	QUANTITY (N)
STd Disk, in well, stamped "CL IMP 106+00.00 POC"	62.0	1
STd Disk, in well, stamped " CL IMP 96+19.75 BC"	62.2	1
STd Disk, in well, stamped "CL IMP 72+85.00 POC"	62.7	1
STd Disk, in well, stamped "62+00.16 BC CL IMP 111"	62.9	1
STd Disk, in well, stamped "CL IMP 111 49+00.00 POT"	63.15	1
STd Disk, in well, stamped "47+37.10 EC 3' LT LL 10-111 CONN"	63.2	1
TOTAL		6

N- NOT A SEPARATE PAY ITEM.

SUMMARY OF QUANTITIES

Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	10	18

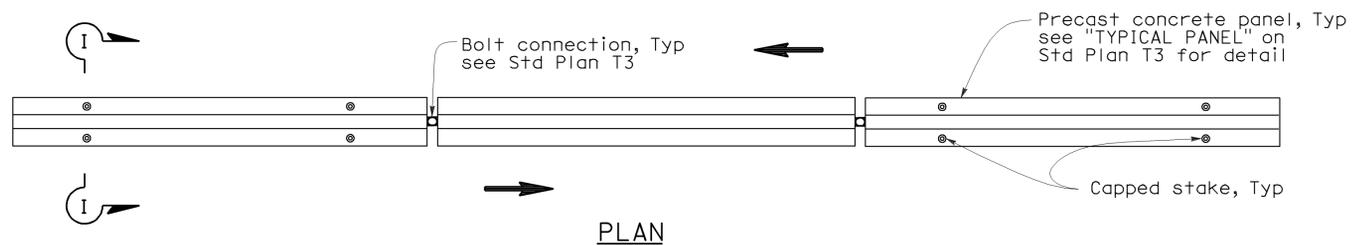
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

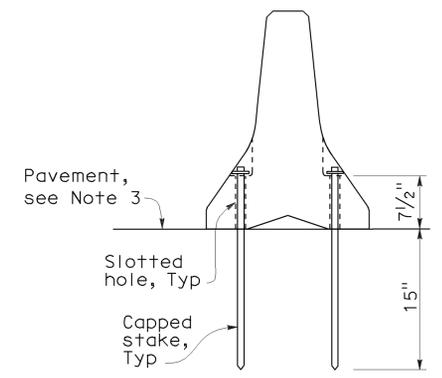
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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

To accompany plans dated 01-30-12



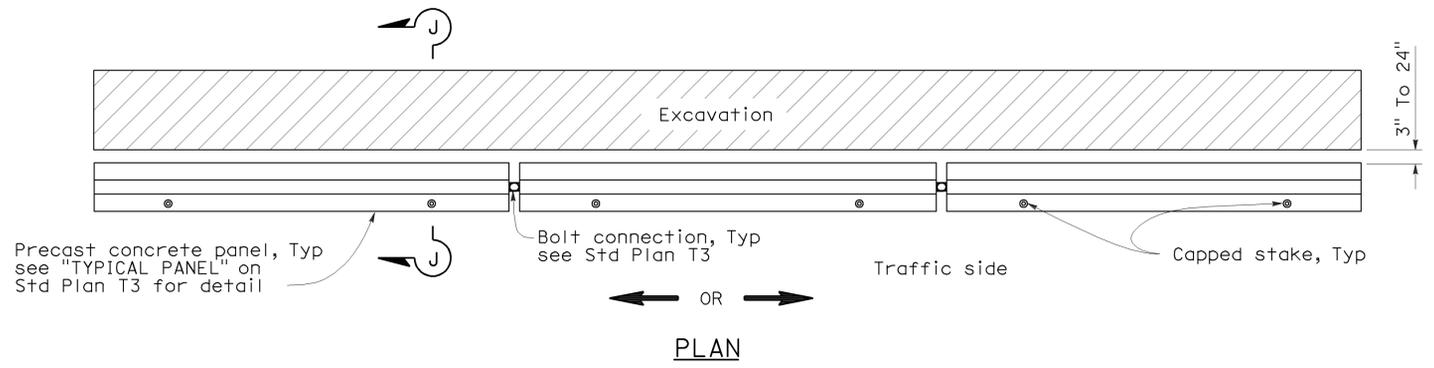
RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1



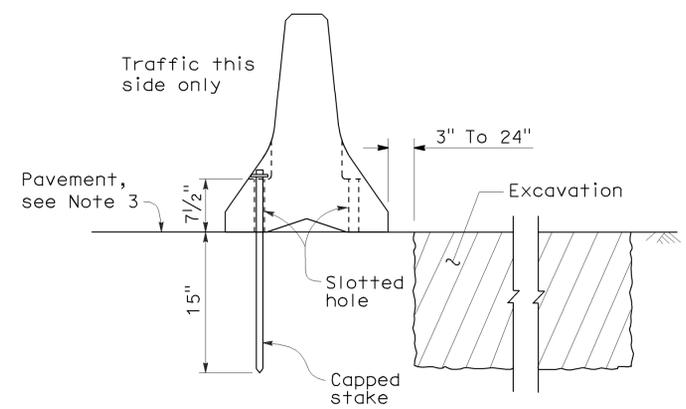
SECTION I-I

NOTES:

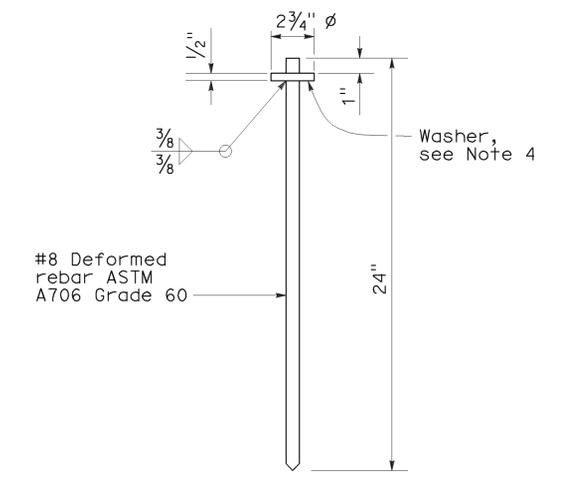
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



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.

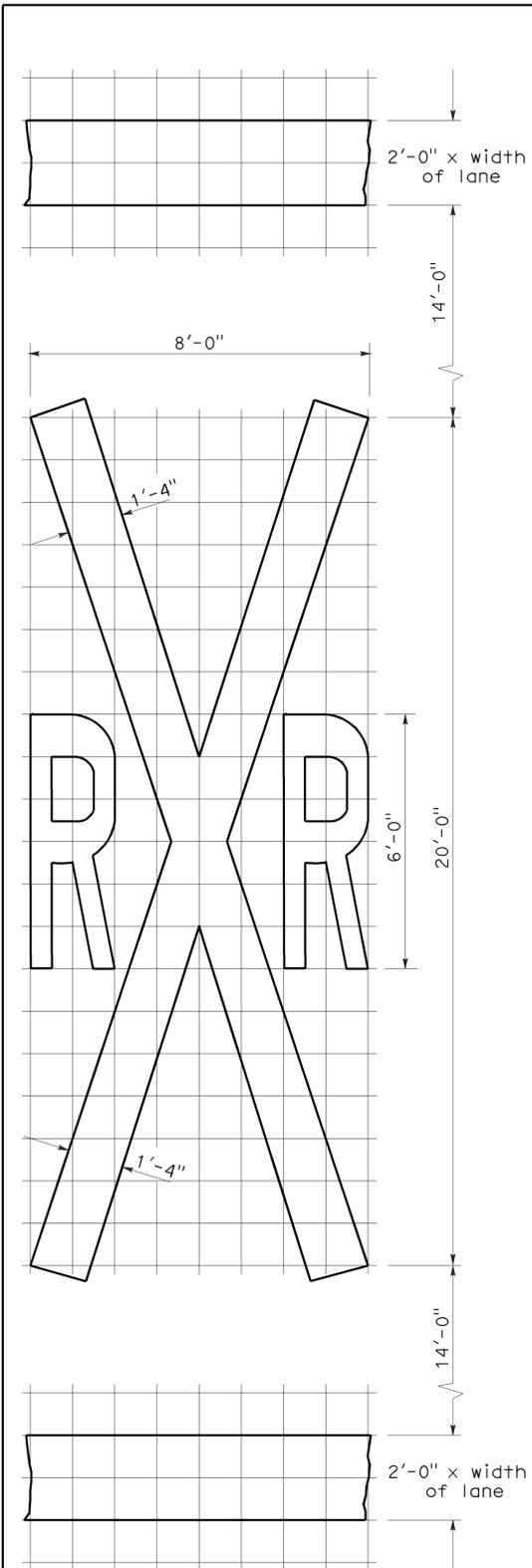
NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	11	18

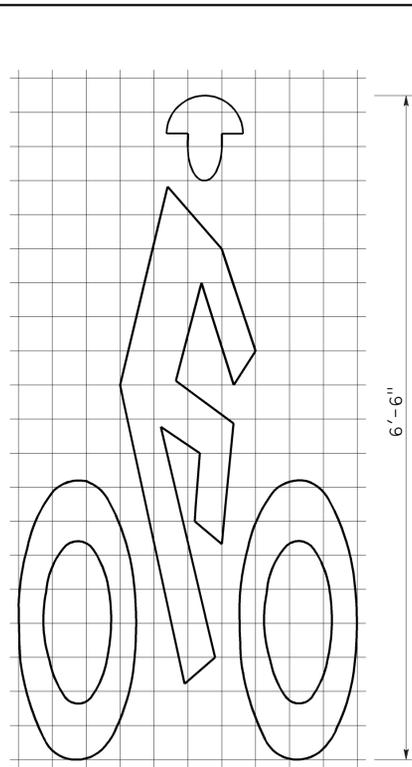
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

To accompany plans dated 01-30-12

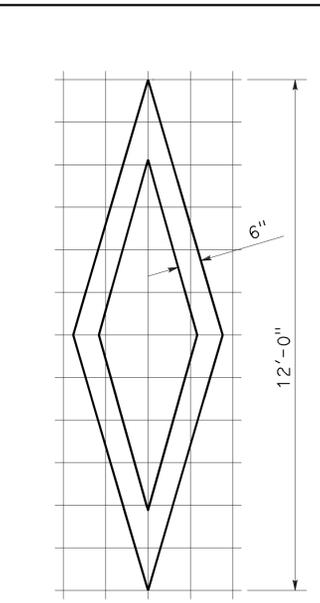


1'-0" GRID
A=70 sq ft *
RAILROAD CROSSING SYMBOL

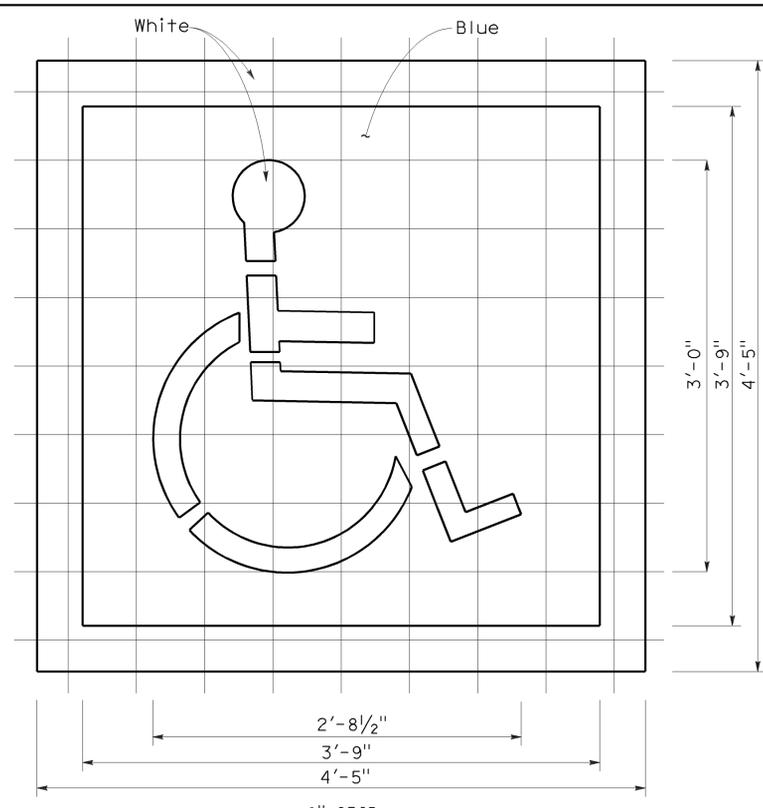
*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



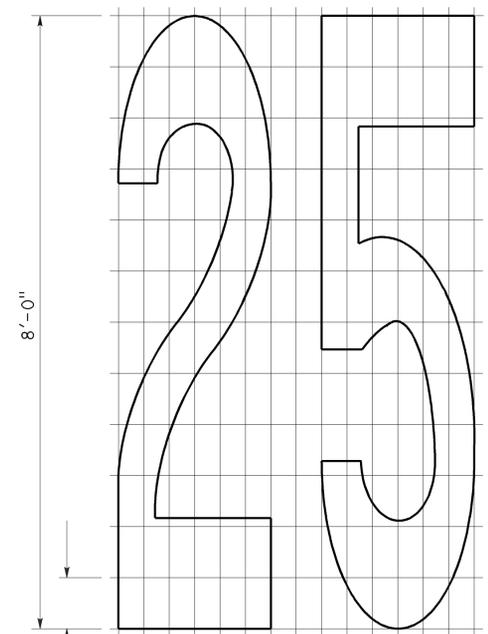
4" GRID 3'-4"
A=7 sq ft
BIKE LANE SYMBOL



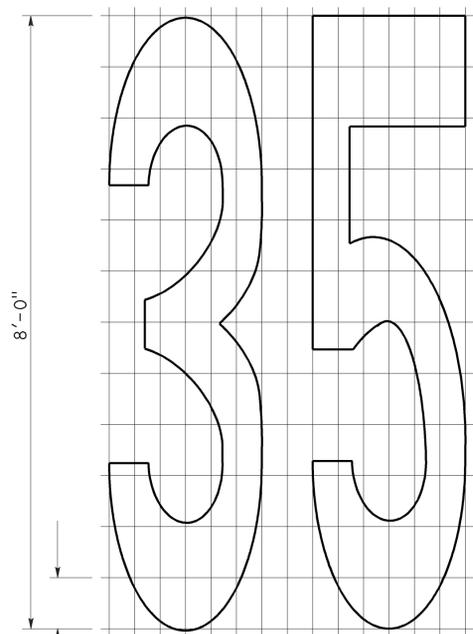
1'-0" GRID 3'-3"
A=11 sq ft
DIAMOND SYMBOL



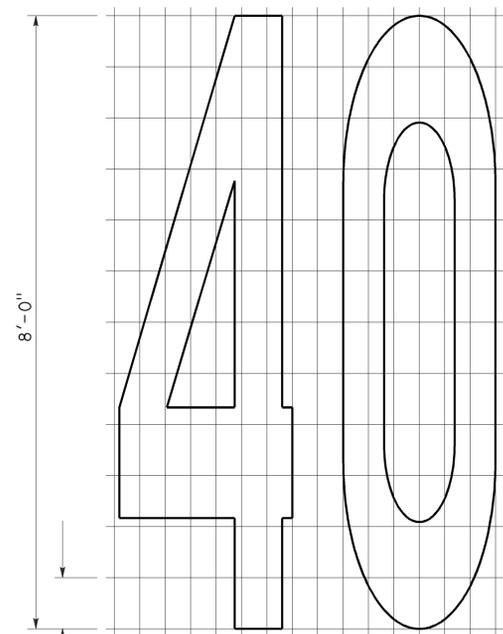
6" GRID
A (White) = 9 sq ft
A (Blue) = 14 sq ft
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



8" 4" 4'-8"
A=17.5 sq ft

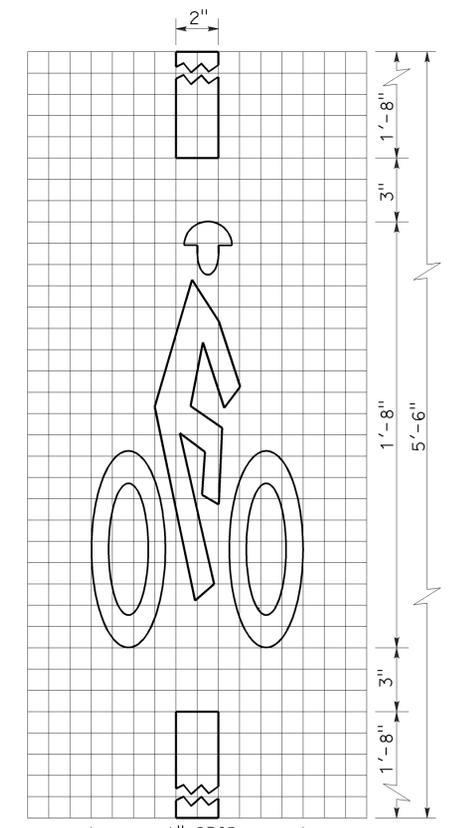


8" 4" 4'-8"
A=16.5 sq ft



8" 4" 4'-11"
A=19.5 sq ft

NUMERALS



1" GRID 10"
A=2 sq ft
BICYCLE LOOP DETECTOR SYMBOL

NOTE:
1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

ELECTROLIERS

STANDARD TYPES	Symbol	Description
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)

NOTES:

- Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS 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.
- Variations noted adjacent to symbol on project plans.

Electrolier (see project notes or project plans)

Luminaire on wood pole

STANDARD NOTES:

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 wire or rope.
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.
SF	Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
TSP	Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	12	18

REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 REGISTERED PROFESSIONAL ENGINEER
 ELECTRICAL
 STATE OF CALIFORNIA

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To accompany plans dated 01-30-12

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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)**

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A
DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	13	18

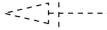
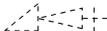
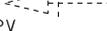
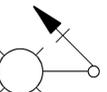
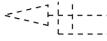
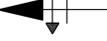
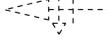
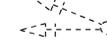
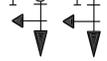
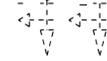
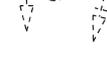
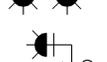
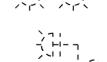
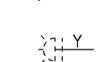
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
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 STATE OF CALIFORNIA

CONDUIT

PROPOSED	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 in/on structure or service pole

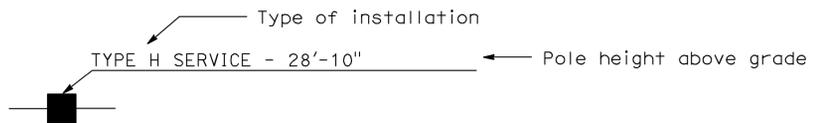
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections lowered "LG" indicates lowered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

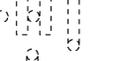
SERVICE EQUIPMENT

PROPOSED	EXISTING	
— — — — OH	— — — — oh	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

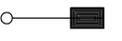
POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

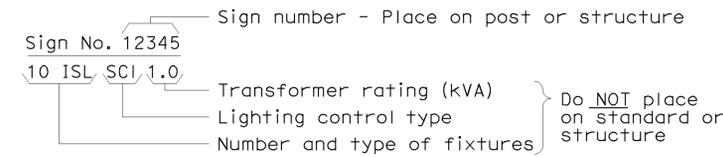
2006 REVISED STANDARD PLAN RSP ES-1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	14	18

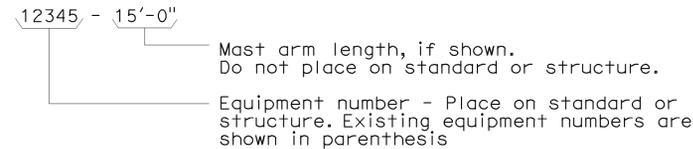
Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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EQUIPMENT IDENTIFICATION

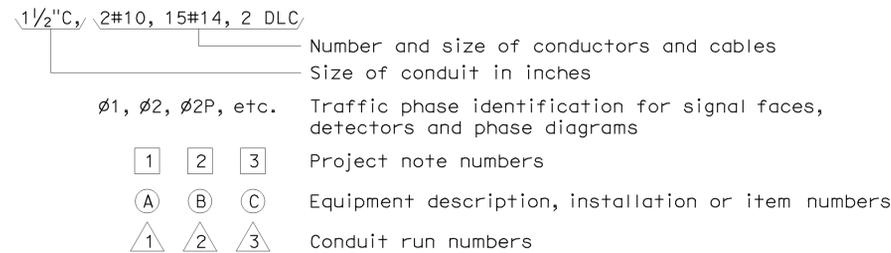
ILLUMINATED SIGN IDENTIFICATION NUMBER:



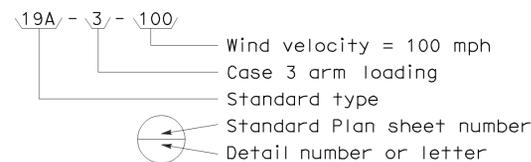
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:



SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
		Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
		Extinguishable message sign
		Detection device
		M = Microwave sensor
		V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole	----	External conductor
CB	Circuit breaker	—	Conductor or bus
A	Ampere	•	Tie point
V	Volt	—/—	Contactor coil
M	Metered	— —	Contactor, Contact NO
UM	Unmetered	— —	Contactor, Contact NC
NB	Neutral bus	⊗	Terminal blocks
GB	Ground bus	—/—	Enclosure bond
G	Equipment grounding conductor	⊕	Grounding electrode
N	Grounded conductor (Neutral)	⊕	Circuit breaker
		Ⓜ	Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
		Pull box-Additional designations or descriptions
3	9A(21)	(C) = Communications pull box
5		(E) = Pull box with extension
6		(S) = Sprinkler control pull box
7		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8		(T) = Traffic pull box
9		
9A		

VEHICLE DETECTORS

PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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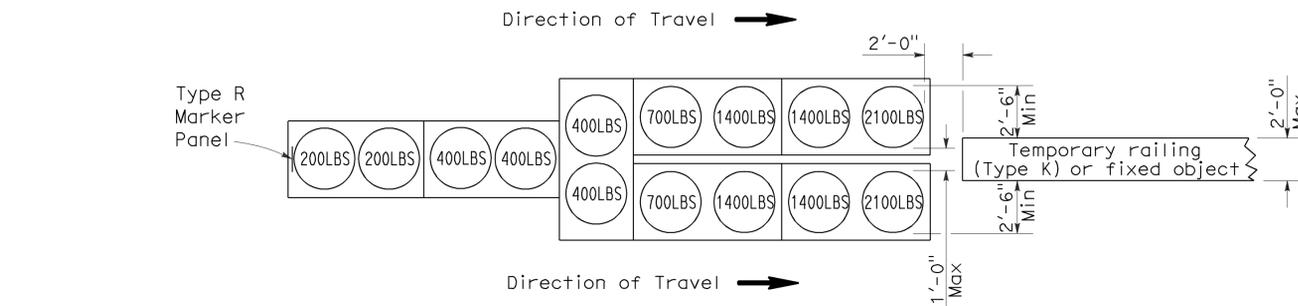
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

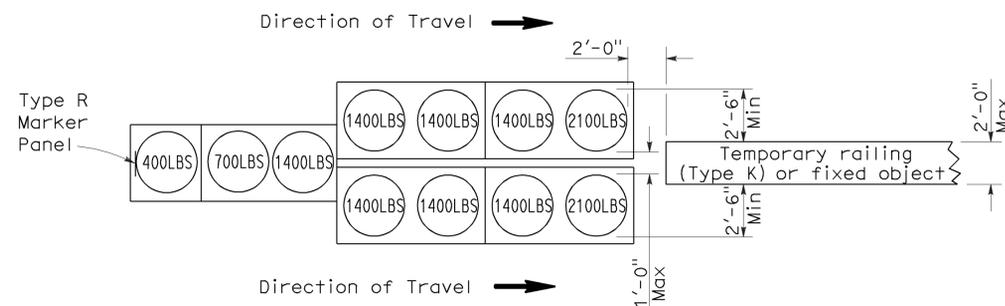
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

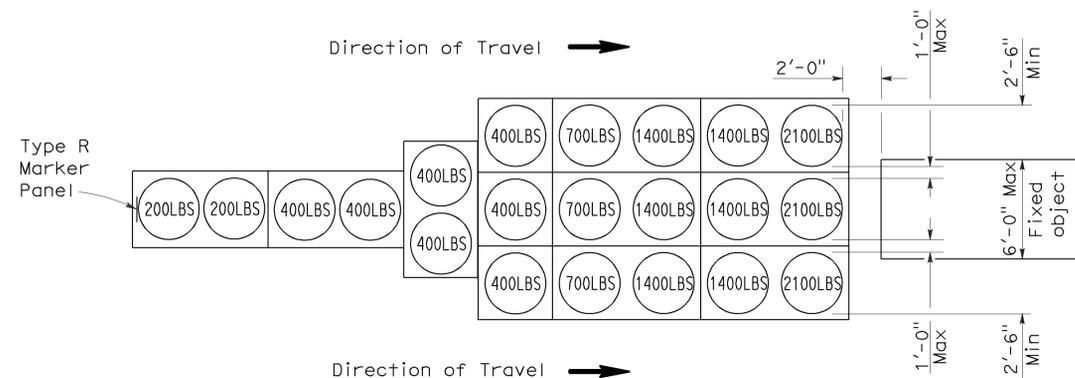
To accompany plans dated 01-30-12



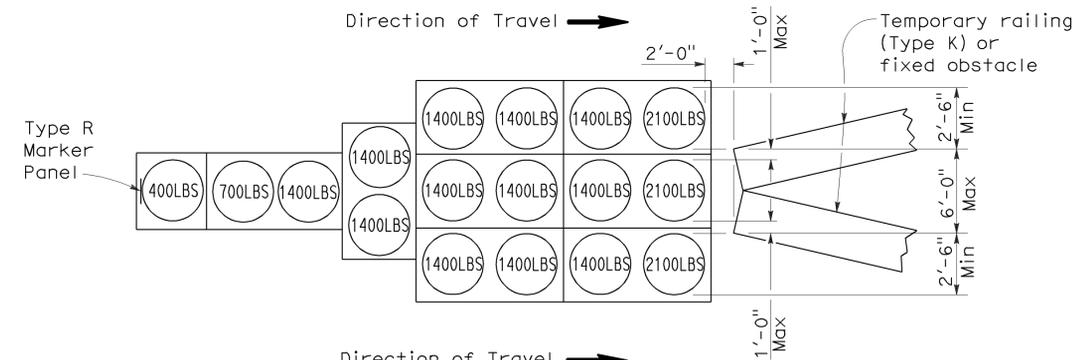
ARRAY 'TU14'
Approach speed 45 mph or more



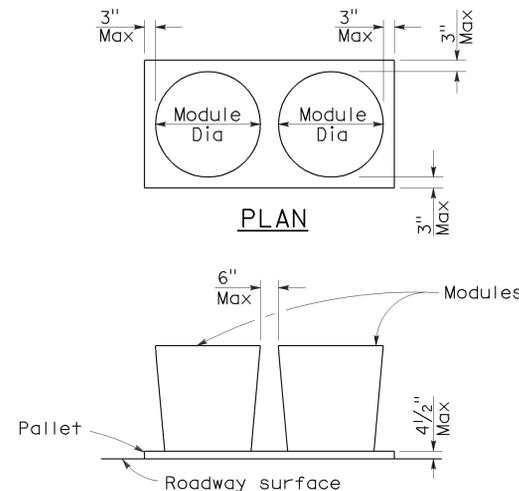
ARRAY 'TU11'
Approach speed less than 45 mph



ARRAY 'TU21'
Approach speed 45 mph or more



ARRAY 'TU17'
Approach speed less than 45 mph



PLAN
ELEVATION
CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(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
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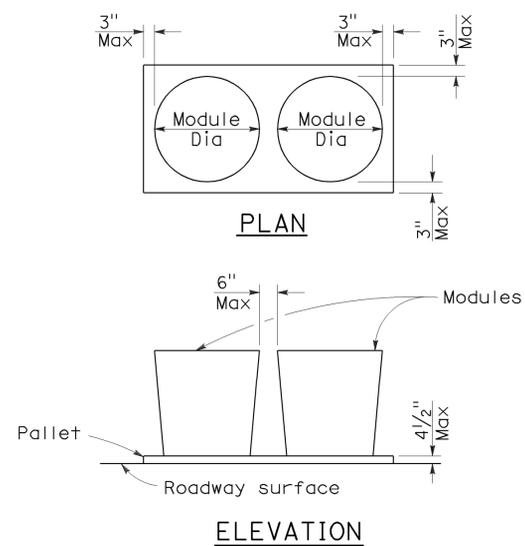
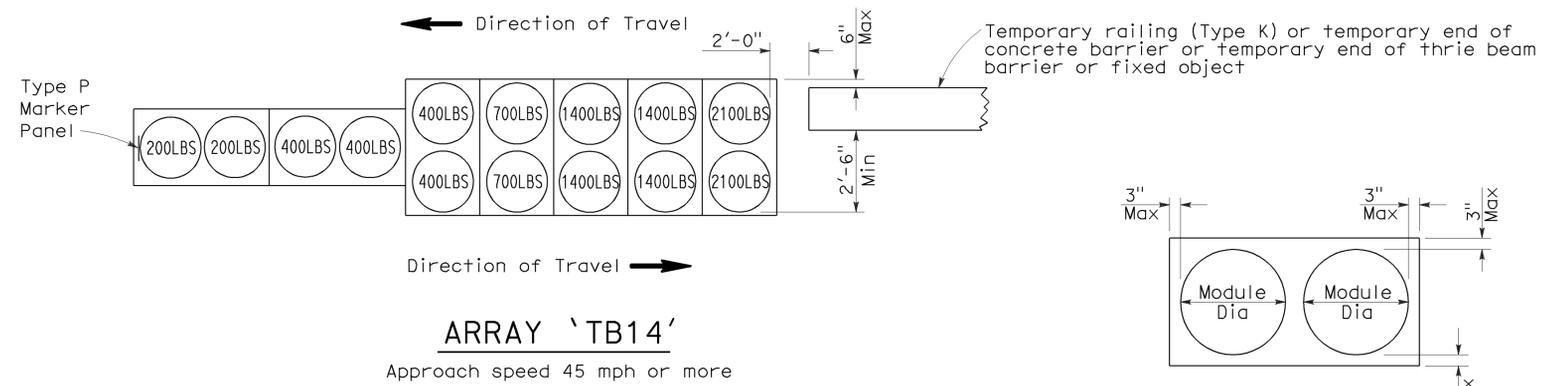
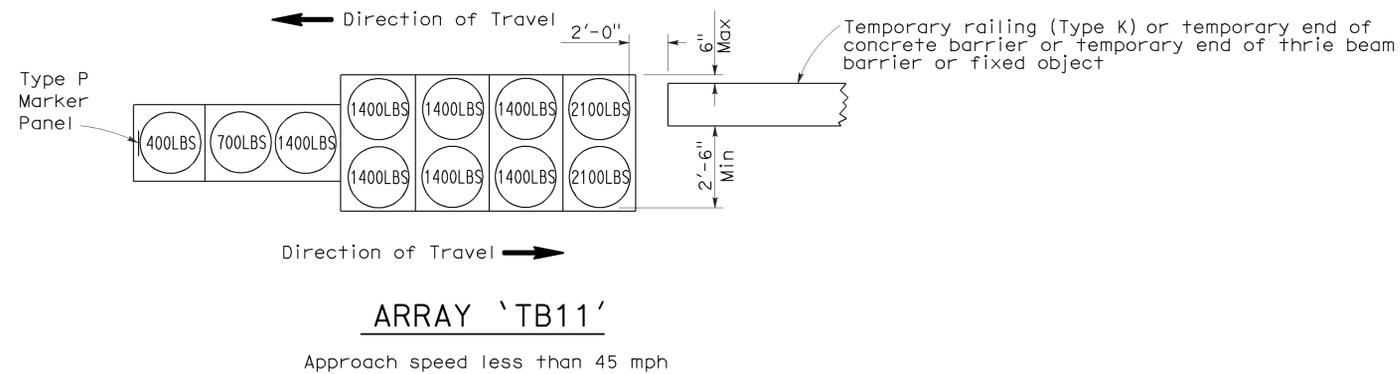
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

To accompany plans dated 01-30-12



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	Riv	111	0.0/6.0 56.2/R63.3	18	18

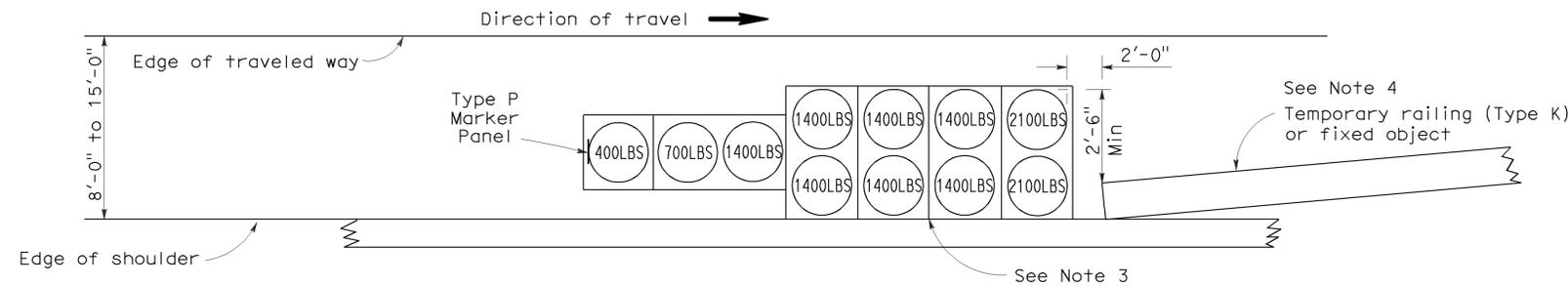
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

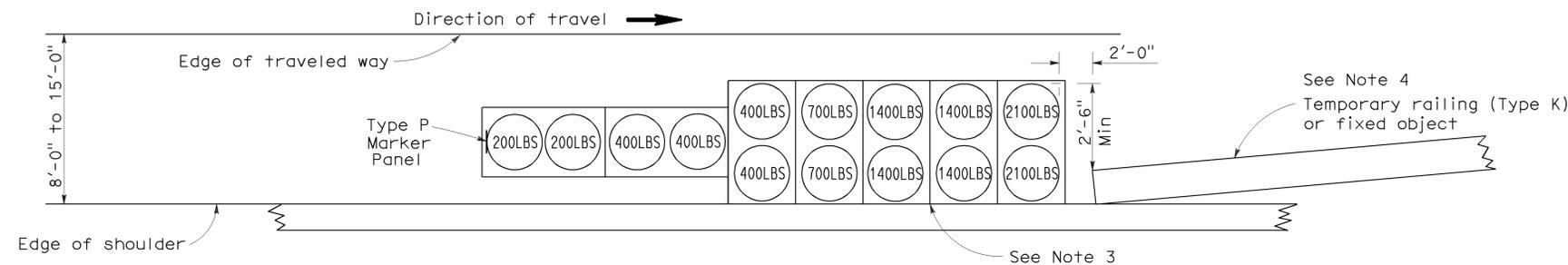
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

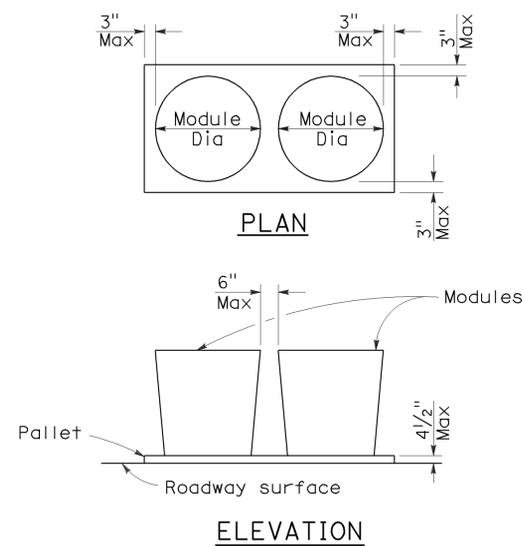
To accompany plans dated 01-30-12



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2