

INDEX OF PLANS

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

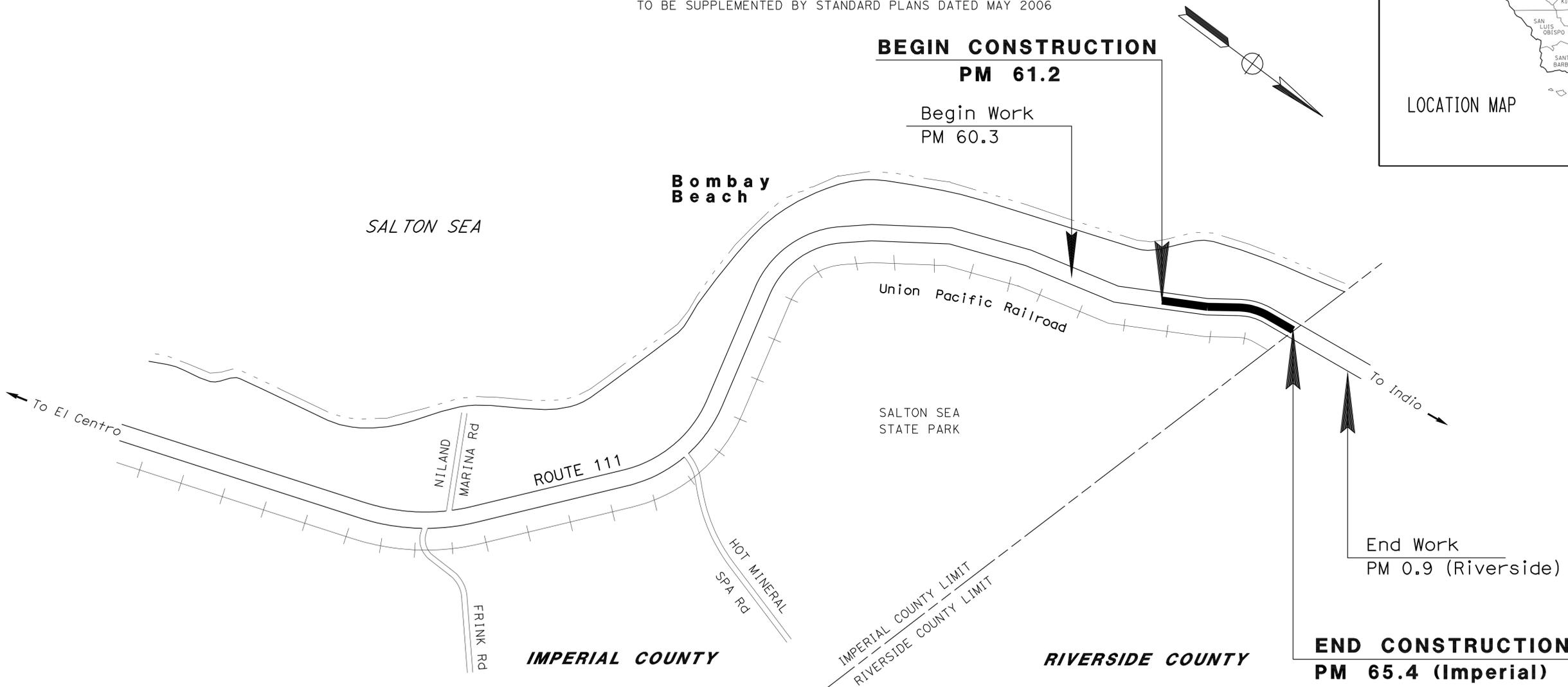
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN IMPERIAL COUNTY NEAR BOMBAY BEACH
FROM 4.2 MILES SOUTH OF RIVERSIDE COUNTY LINE
TO RIVERSIDE COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	111	61.2/65.4	1	9



PROJECT MANAGER
RICHARD ESTRADA

DESIGN ENGINEER
RICHARD ESTRADA

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER



DATE
May 3, 2010

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.

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

NO SCALE

CONTRACT No. **11-299004**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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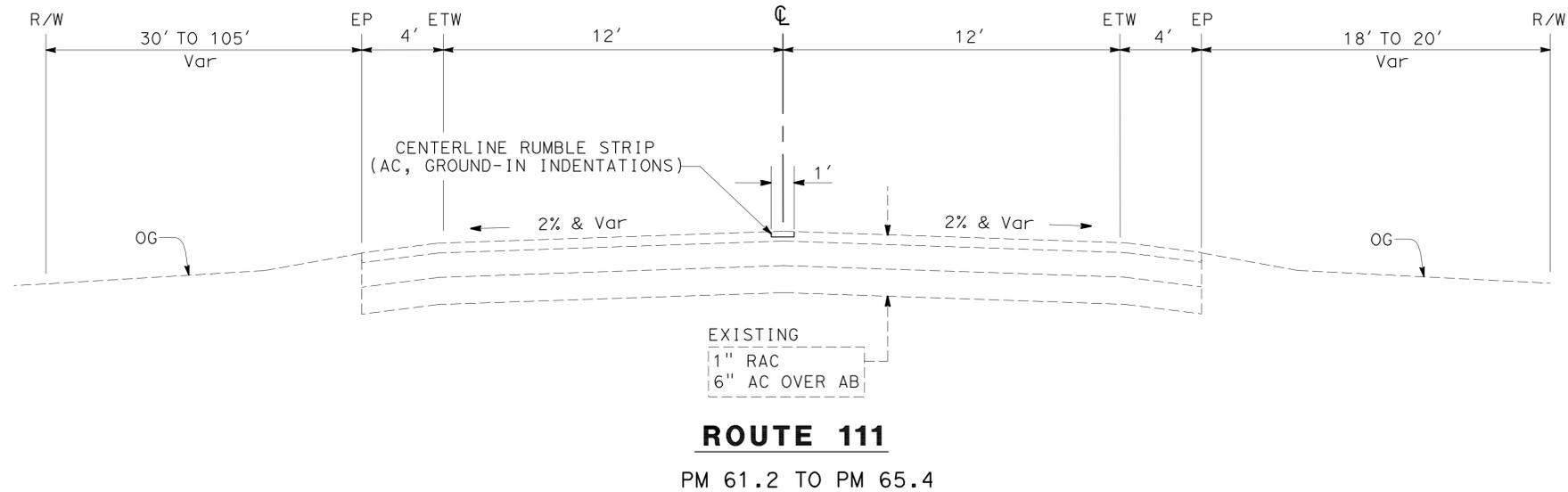
<i>A. N. Labrador</i>	02-09-10
REGISTERED CIVIL ENGINEER	DATE
05-03-10	
PLANS APPROVAL DATE	

ALBERT LABRADOR
No. 65294
Exp. 09-30-11
CIVIL

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

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. MAINTAIN EXISTING TRAFFIC MONITORING SYSTEM. EXISTING PIEZO STRIPS AT COUNTY LINE (PM 65.4) ARE TO REMAIN INTACT.



TYPICAL CROSS SECTION

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	RICHARD N. ESTRADA	CHECKED BY	MATTHEW MACE	
TRAFFIC PROJECT DEVELOPMENT			ALBERT N. LABRADOR	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	111	61.2/65.4	3	9

02-24-10
REGISTERED CIVIL ENGINEER DATE

05-03-10
PLANS APPROVAL DATE

SHAHIN T. ADIBI
No. 54839
Exp. 06-30-10
CIVIL
STATE OF CALIFORNIA

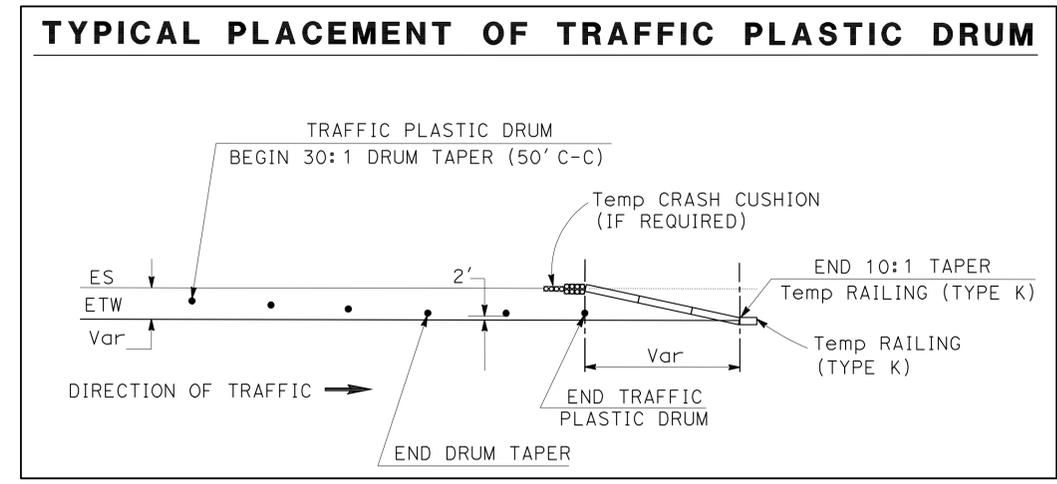
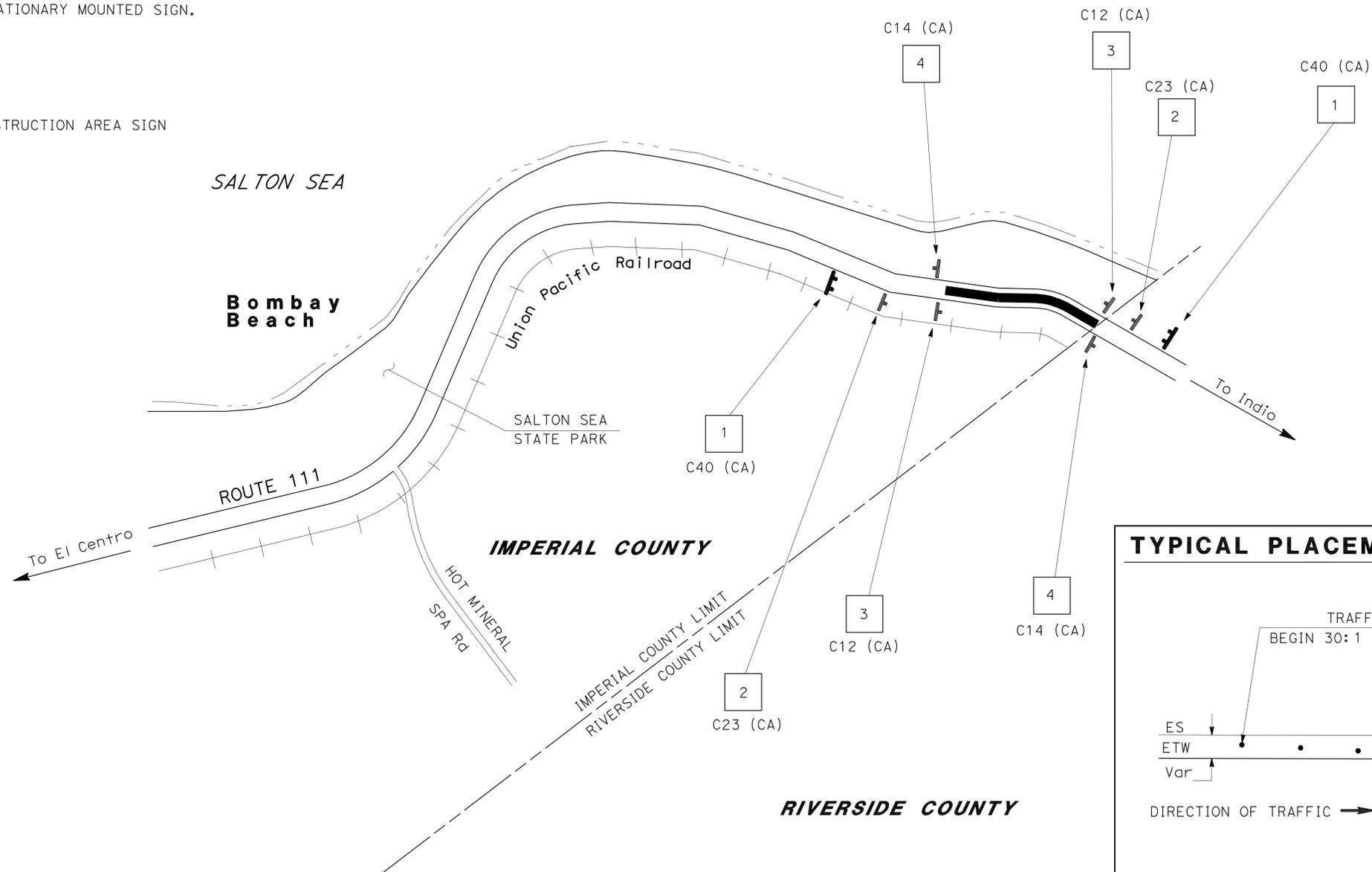
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONSTRUCTION AREA SIGNS				
SIGN No.	TYPE	PANEL SIZE INCH X INCH	No. OF POST AND SIZE INCH X INCH	SIGNS (EA)
1	C40 (CA)	108 X 42	2-4 X 6 (s)	2
2	C23 (CA)	48 X 48	1-4 X 6 (s)	2
3	C12 (CA)	48 X 48	1-4 X 6 (s)	2
4	C14 (CA)	48 X 24	1-4 X 4 (s)	2
TOTAL				8

(s) DENOTES STATIONARY MOUNTED SIGN.

LEGEND

[X] = CONSTRUCTION AREA SIGN



NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- FEDERAL MUTCD SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA) INDICATING STANDARD CALIFORNIA SIGN SPECIFICATIONS ARE USED.
- EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATIONS OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

REVISOR
IRAM SYED
SHAHIN T ADIBI

DESIGNER
CAMILLE ABOUFADEL

CHECKED BY

FUNCTIONAL SUPERVISOR

TRAFFIC

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES

USERNAME => s127400
DGN FILE => b299001a001.dgn

CU 11233

EA 299001

LAST REVISION DATE PLOTTED => 03-MAY-2010
02-25-10 TIME PLOTTED => 15:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	111	61.2/65.4	4	9

 02-24-10
 REGISTERED CIVIL ENGINEER DATE

05-03-10
 PLANS APPROVAL DATE

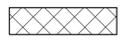
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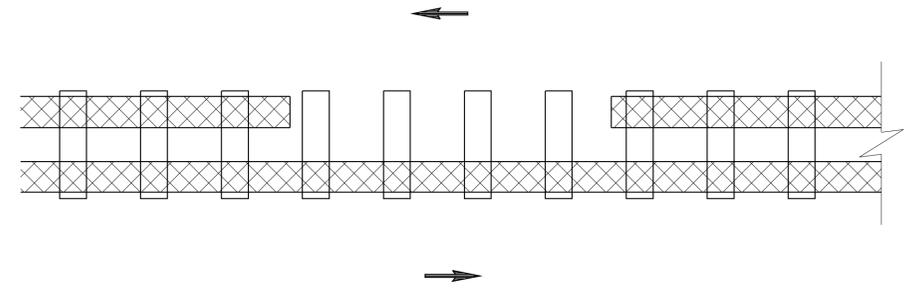
REGISTERED PROFESSIONAL ENGINEER
 SHAHIN T. ADIBI
 No. 54839
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

NOTES:

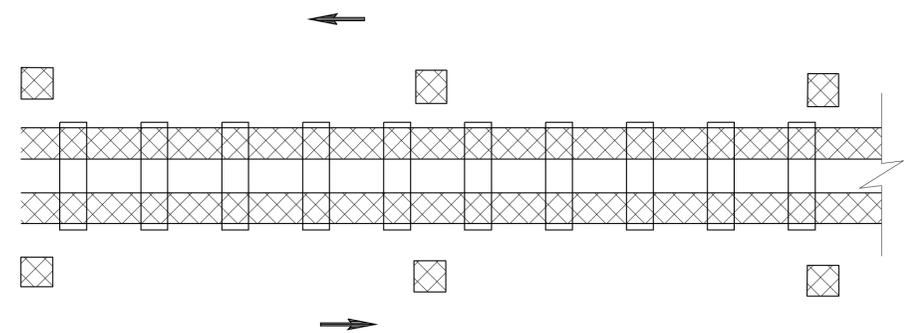
1. PAINT TRAFFIC STRIPE (2 COAT) SHALL BE PLACED OVER CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)
2. SEE STANDARD PLAN A40B FOR CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)
3. ALL PAVEMENT DELINEATION SHALL BE REPLACED IN KIND.

LEGEND:

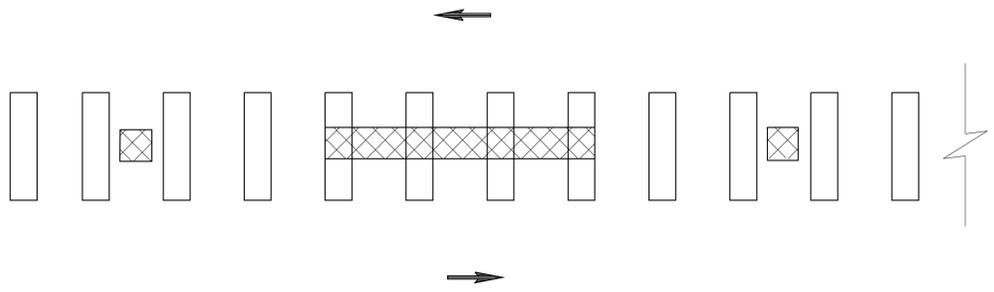
-  = DIRECTION OF TRAVEL
-  = CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)
-  = PAVEMENT MARKER (TYPE D)
-  = 4" YELLOW TRAFFIC STRIPE



**DETAIL 18 WITH CENTERLINE RUMBLE STRIP
(AC, GROUND-IN INDENTATIONS)**



**DETAIL 22 WITH CENTERLINE RUMBLE STRIP
(AC, GROUND-IN INDENTATIONS)**



**DETAIL 6 WITH CENTERLINE RUMBLE STRIP
(AC, GROUND-IN INDENTATIONS)**

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	IRAM SYED	REVISED BY
Caltrans	CAMILLE ABOUFADEL	CHECKED BY	SHAHIN T ADIBI	DATE
				REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	111	61.2/65.4	5	9

 02-24-10
 REGISTERED CIVIL ENGINEER DATE

05-03-10
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
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LOCATION (PM)	DETAIL No.	PAVEMENT MARKER SUMMARY					TRAFFIC STRIPE SUMMARY			REMARKS	
		NON-REFLECTIVE	RETROREFLECTIVE (EA)				PAINT (LF)	THERMOPLASTIC (LF)			
		TYPE A WHITE	TYPE C RED&CLEAR	TYPE D YELLOW	TYPE G CLEAR	TYPE H YELLOW		4 In BROKEN	8 In		8 In BROKEN
61.2-65.4	22			730			8765				REPLACE IN KIND
↓	18						3432				
↓	6			208			9979				↓
↓	27B						44,352				REFRESH PAINT
SUB-TOTAL				938			66,528				
TOTAL				938			66,528				

REMOVE PAVEMENT MARKER						
ROUTE	LOCATION (PM)	TYPE (EA)				REMARKS
		A	D	G	H	
111	61.2 - 65.4		938			
SUBTOTAL			938			
TOTAL			938			

REMOVE PAINTED TRAFFIC STRIPE		
LOCATION (PM)	DETAIL No.	(LF)
61.2-65.4	22	17,530
↓	18	4290
↓	6	2495
TOTAL		24,315

**PAVEMENT DELINEATION
 QUANTITIES**
PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 TRAFFIC
 FUNCTIONAL SUPERVISOR
 CAMILLE ABOUFADEL
 CALCULATED/DESIGNED BY
 CHECKED BY
 IRAM SYED
 SHAHIN T ADIBI
 REVISED BY
 DATE REVISED

LAST REVISION | DATE PLOTTED => 03-MAY-2010
 02-25-10 TIME PLOTTED => 15:25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR
 RICHARD N. ESTRADA

CALCULATED/DESIGNED BY
 CHECKED BY

MATTHEW MACE
 ALBERT N. LABRADOR

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	111	61.2/65.4	6	9

Albert Labrador 02-09-10
 REGISTERED CIVIL ENGINEER DATE

05-03-10
 PLANS APPROVAL DATE

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CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)		
BEGIN PM	END PM	LENGTH (STA)
61.2	65.4	221.76
TOTAL		221.76

SUMMARY OF QUANTITIES
Q-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	111	61.2/65.4	7	9

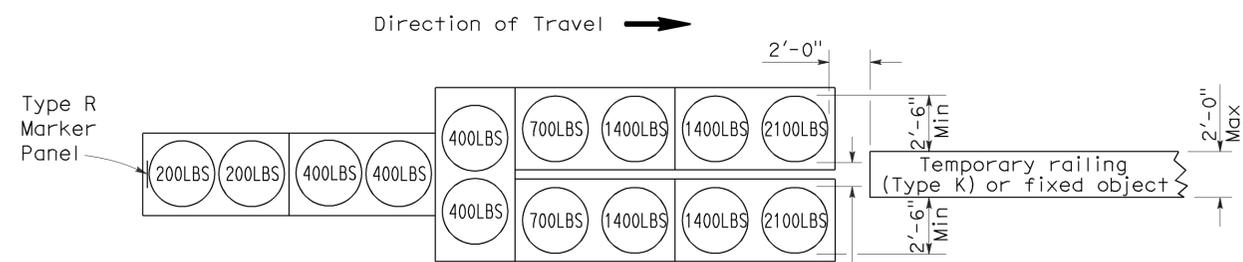
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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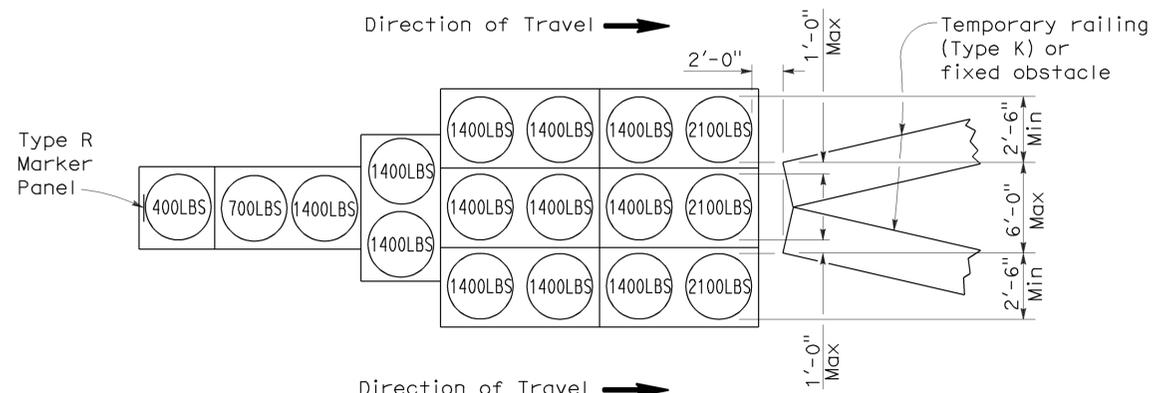
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 05-03-10



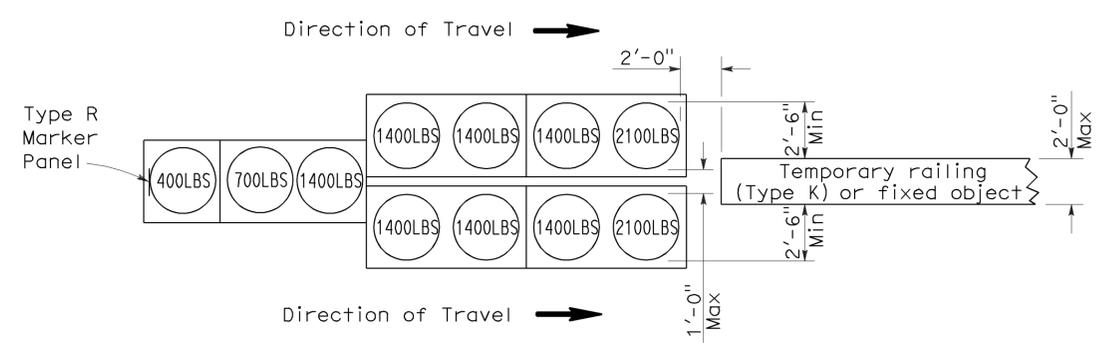
ARRAY 'TU14'

Approach speed 45 mph or more



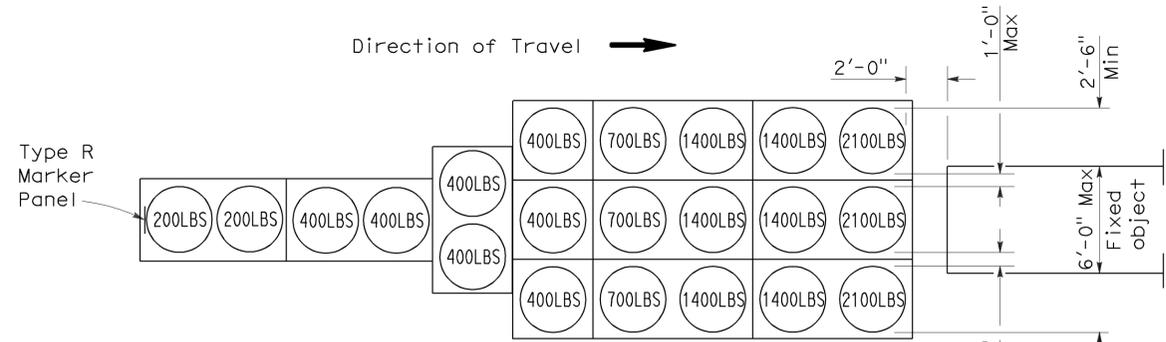
ARRAY 'TU17'

Approach speed less than 45 mph



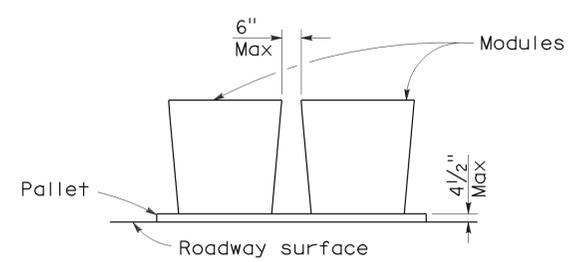
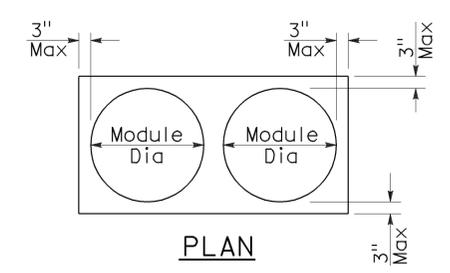
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



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
11	Imp	111	61.2/65.4	8	9

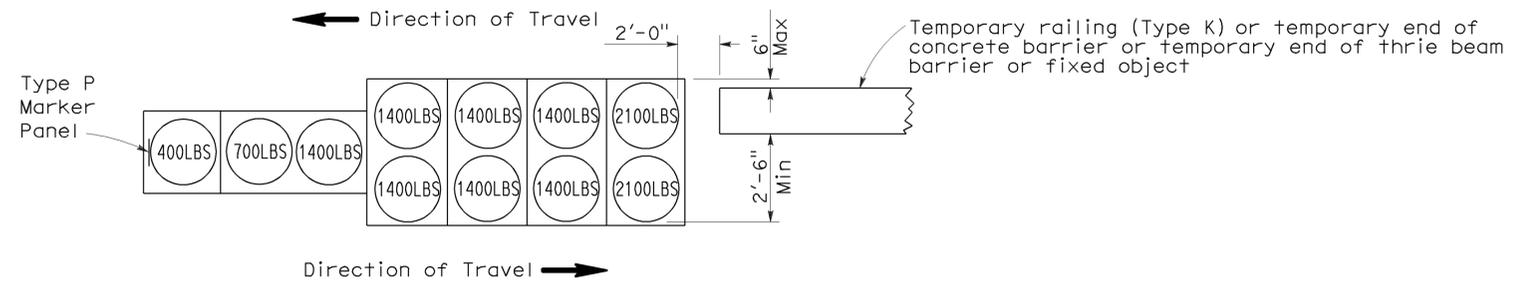
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

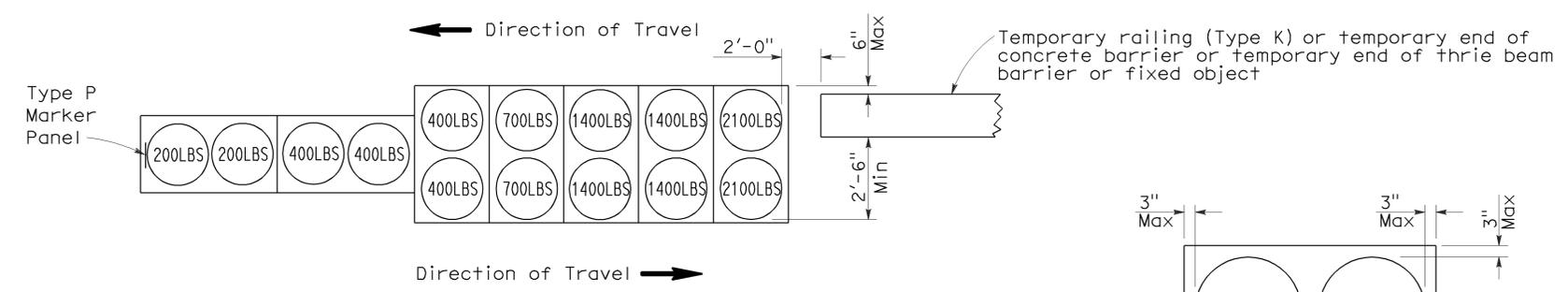
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Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

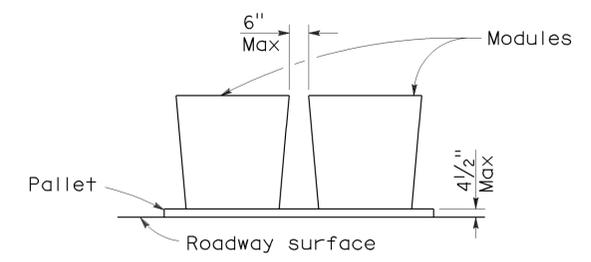
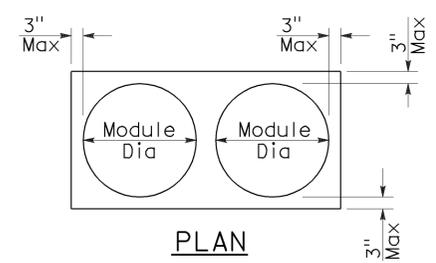
To accompany plans dated 05-03-10



ARRAY 'TB11'
Approach speed less than 45 mph



ARRAY 'TB14'
Approach speed 45 mph or more



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

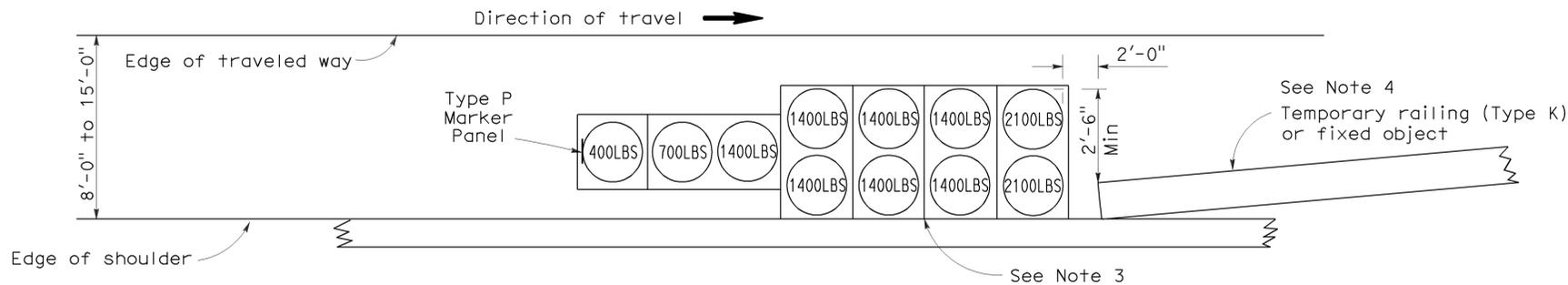
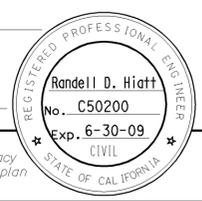
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	111	61.2/65.4	9	9

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

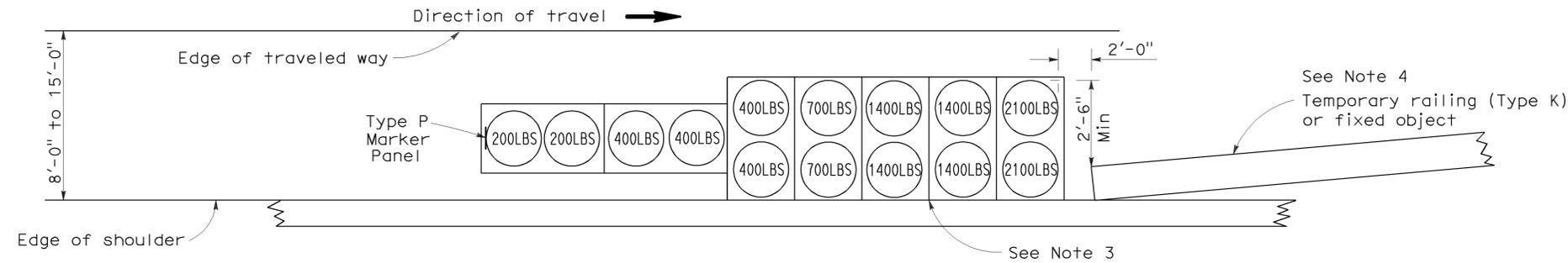
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated 05-03-10



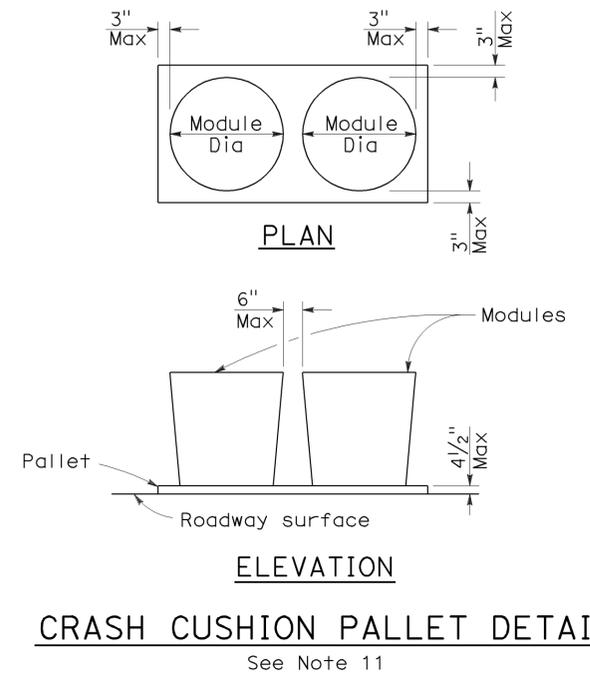
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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.



CRASH CUSHION PALLET DETAIL
See Note 11

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