

INDEX OF PLANS

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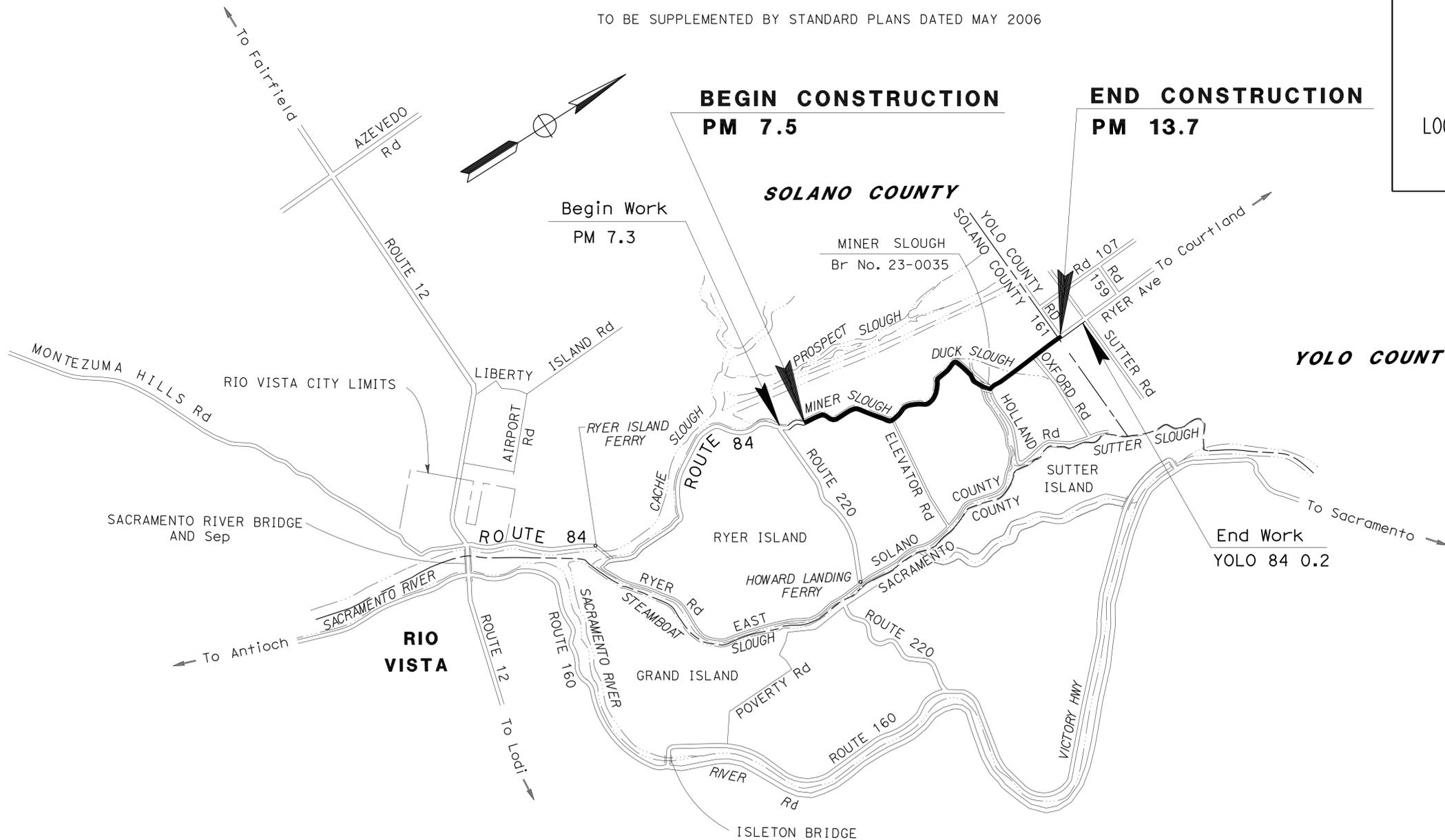
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN SOLANO COUNTY  
NEAR RIO VISTA  
FROM 0.2 MILE NORTH OF ROUTE 220 JUNCTION  
TO THE YOLO COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	84	7.5/13.7	1	11



PROJECT MANAGER  
RAMSES SARGISS

DESIGN ENGINEER  
ROBERT CAMARGO

Robert Camargo 3-30-10  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

April 19, 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."

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	2	11

<i>Robert Camargo</i>	3-30-10
REGISTERED CIVIL ENGINEER	DATE
4-19-10	
PLANS APPROVAL DATE	

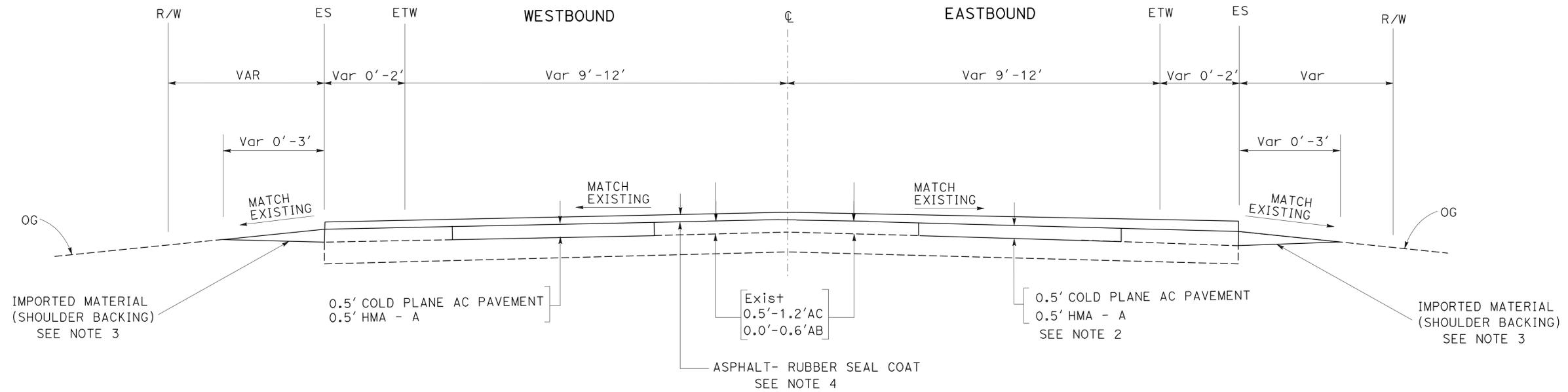
  

REGISTERED PROFESSIONAL ENGINEER
Robert Camargo
No. 34402
Exp. 9-30-11
CIVIL

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. ALL EXACTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED IN THE SAME LOCATION AS THE EXISTING.
2. EXACT LOCATIONS AND LIMITS OF COLD PLANE AC PAVEMENT TO BE DETERMINED BY THE ENGINEER.
3. EXACT LOCATIONS AND LIMITS OF IMPORTED MATERIAL (SHOULDER BACKING) TO BE DETERMINED BY THE ENGINEER.
4. EXACT LIMITS OF ASPHALT-RUBBER SEAL COAT TO BE DETERMINED BY ENGINEER.



**ROUTE 84**  
PM 7.5 TO 13.7

**TYPICAL CROSS SECTIONS**

NO SCALE

**X-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	3	11

*Lourdes David* 3-30-10  
 REGISTERED CIVIL ENGINEER DATE  
 4-19-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 No. 51428  
 Exp. 6-30-10  
 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.

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

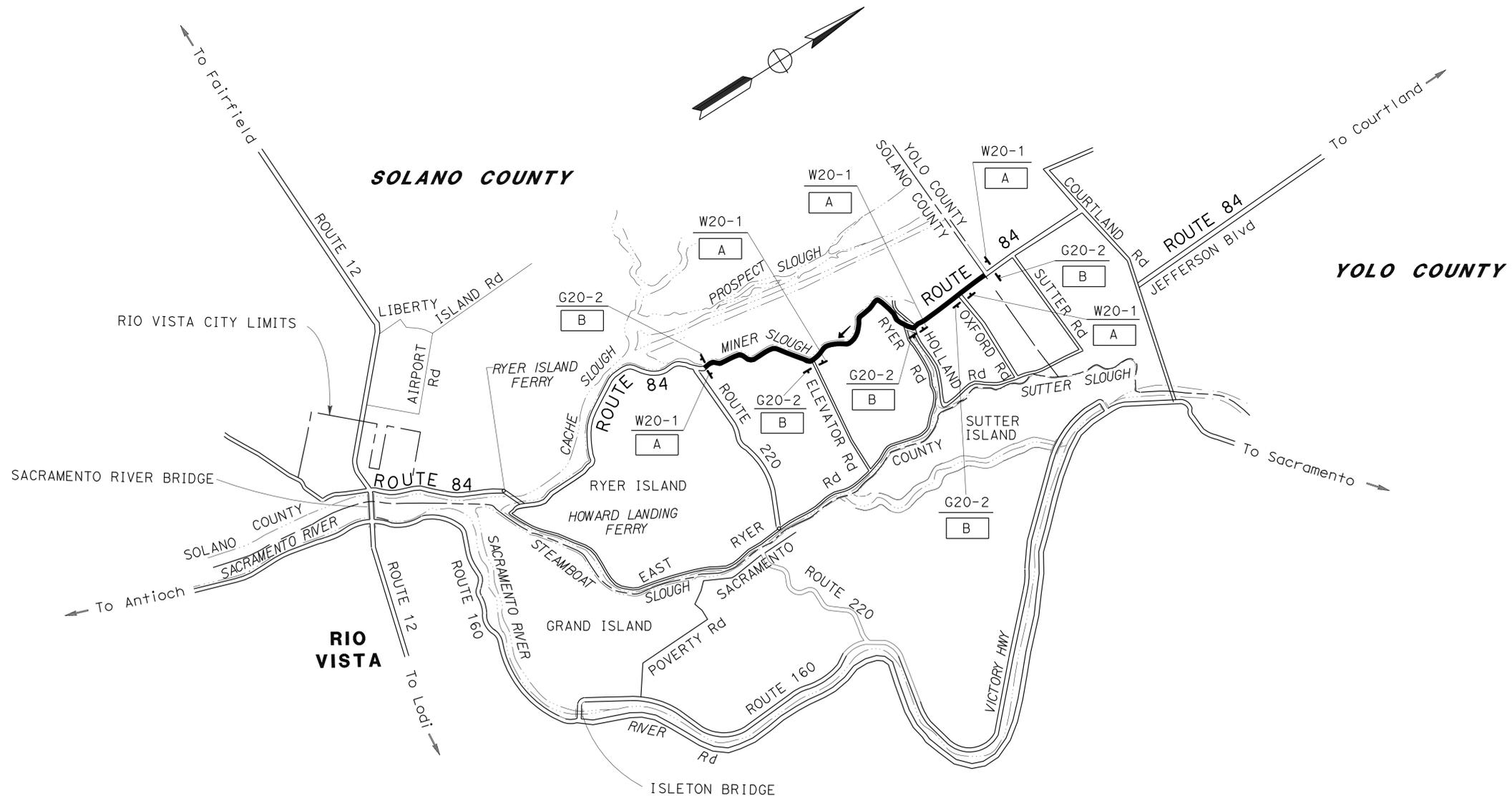
SIGN	SIGN CODE	MESSAGE	PANEL SIZE (Inches)	No. OF POSTS & SIZE (Inches) (EA)	No. OF SIGNS	REMARKS
A	W20-1	ROAD WORK AHEAD	48 x 48	1-4 x 6	5	
B	G20-2	END ROAD WORK	36 x 18	1-4 x 4	5	
C	W20-2	DETOUR AHEAD	36 x 36	1-4 x 6	6	
D	M4-10R	DETOUR RIGHT ARROW	48 x 18	1-4 x 6	9	
E	M4-10L	DETOUR LEFT ARROW	48 x 18	1-4 x 6	9	
F	M4-8a	END DETOUR	24 x 18	1-4 x 6	6	
G	SC3(↑)(CA)	DETOUR UP ARROW	48 x 18	1-4 x 6	14	
H	SC6-4(CA)	ROAD CLOSED	48 x 60	1-4 x 6	6	

#### LEGEND:

- C CONSTRUCTION AREA SIGN LETTER
- ← TRAFFIC DIRECTION
- X PROJECT AREA CLOSED TO TRAFFIC

#### NOTE:

EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.



## CONSTRUCTION AREA SIGNS DETOUR PLAN

NO SCALE

CS-1

THIS PLAN ACCURATE FOR  
CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY: LEOPOLDO G. BONGATO  
 CHECKED BY: LOURDES DAVID  
 REVISIONS: LGB 12/09/09  
 REVISIONS:

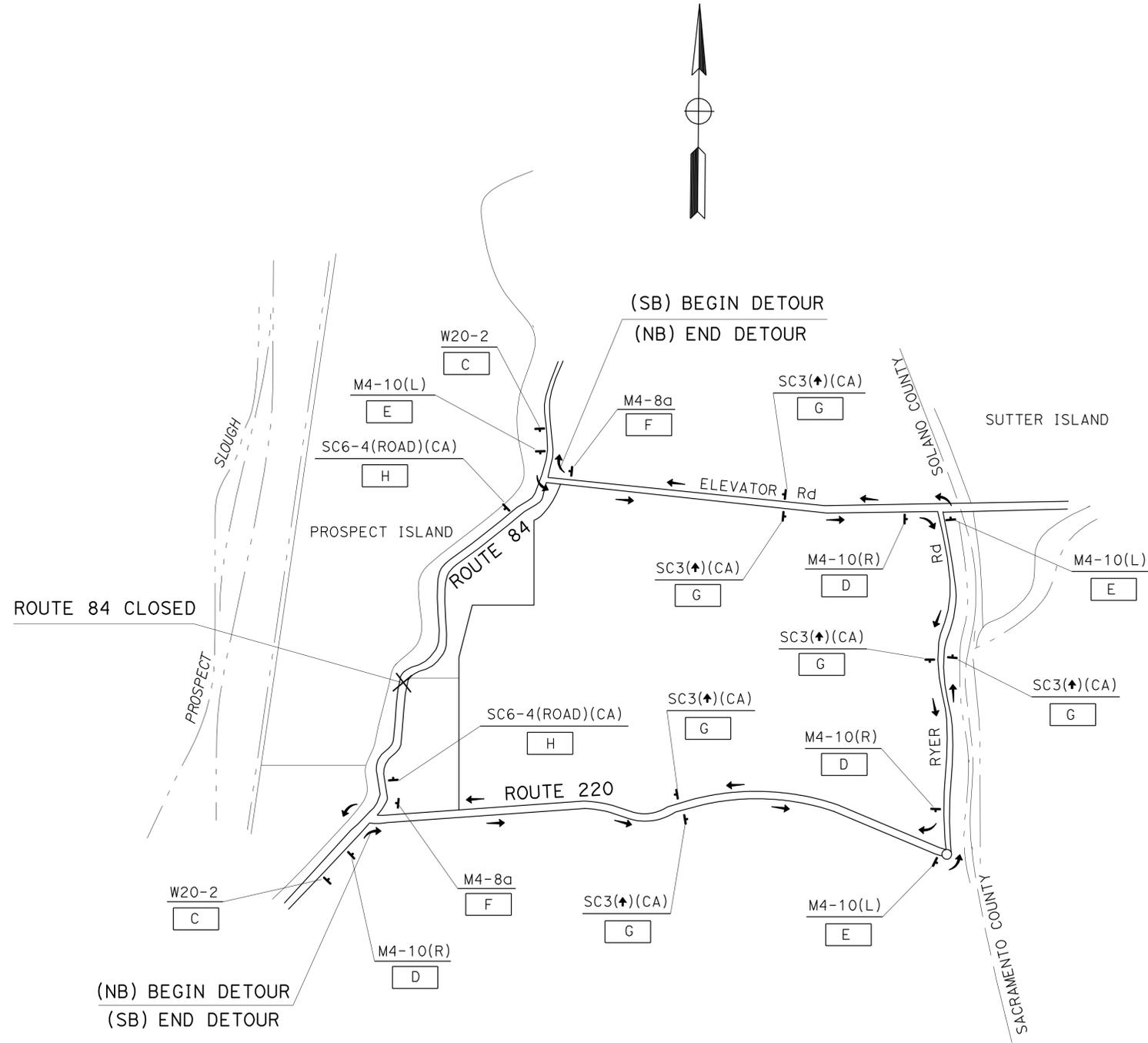
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	4	11

*Lourdes David* 3-30-10  
 REGISTERED CIVIL ENGINEER DATE  
 4-19-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Lourdes David  
 No. 51428  
 Exp. 6-30-10  
 CIVIL  
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LEOPOLDO G. BONGATO	REVISOR	LGB
Caltrans	LOURDES DAVID	DATE REVISOR	12/09/09
FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	
ROLAND AU-YEUNG			



**DETOUR VIA:**

**SOUTHBOUND Rte 84:**  
 EAST ON ELEVATOR Rd  
 SOUTH ON EAST RYER Rd  
 WEST ON CA-220 EAST  
 TO SOUTHBOUND Rte 84

**NORTHBOUND Rte 84:**  
 EAST ON CA-220 EAST  
 NORTH ON EAST RYER Rd  
 WEST ON ELEVATOR Rd  
 TO NORTHBOUND Rte 84

**DETOUR 1**  
 FULL CLOSURE OF ROUTE 84 FROM 7.3 TO 9.5

**CONSTRUCTION AREA SIGNS  
 DETOUR PLAN**  
 NO SCALE

THIS PLAN ACCURATE FOR  
 CONSTRUCTION AREA SIGN WORK ONLY

**CS-2**

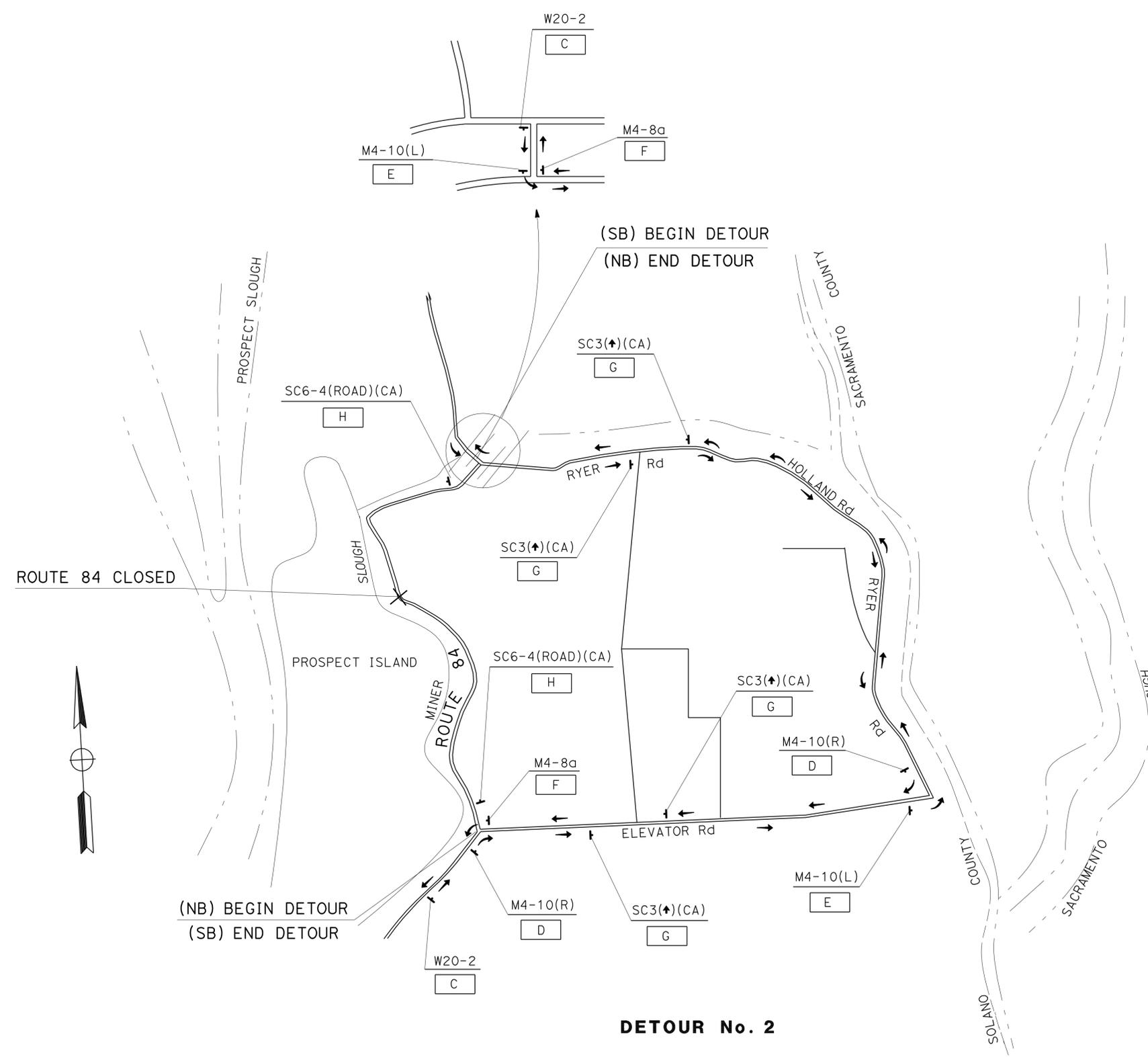
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LEOPOLDO G. BONGATO	REVISOR	LGB
<b>Caltrans</b>	LOURDES DAVID	DATE	12/09/09
FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	
ROLAND AU-YEUNG			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	5	11

3-30-10  
 REGISTERED CIVIL ENGINEER DATE  
 4-19-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Lourdes David  
 No. 51428  
 Exp. 6-30-10  
 CIVIL  
 STATE OF CALIFORNIA

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**DETOUR No. 2**

FULL CLOSURE OF ROUTE 84 FROM 9.5 TO 12.1

**DETOUR VIA:**

**SOUTHBOUND Rte 84:**  
 EAST ON RYER Rd  
 SOUTH ON EAST RYER Rd  
 WEST TO ELEVATOR Rd  
 TO SOUTHBOUND Rte 84

**NORTHBOUND Rte 84:**  
 EAST ON ELEVATOR Rd  
 NORTH ON EAST RYER Rd  
 NORTH ON RYER Rd  
 TO NORTHBOUND Rte 84

**CONSTRUCTION AREA SIGNS  
 DETOUR PLAN**  
 NO SCALE

THIS PLAN ACCURATE FOR  
 CONSTRUCTION AREA SIGN WORK ONLY

**CS-3**

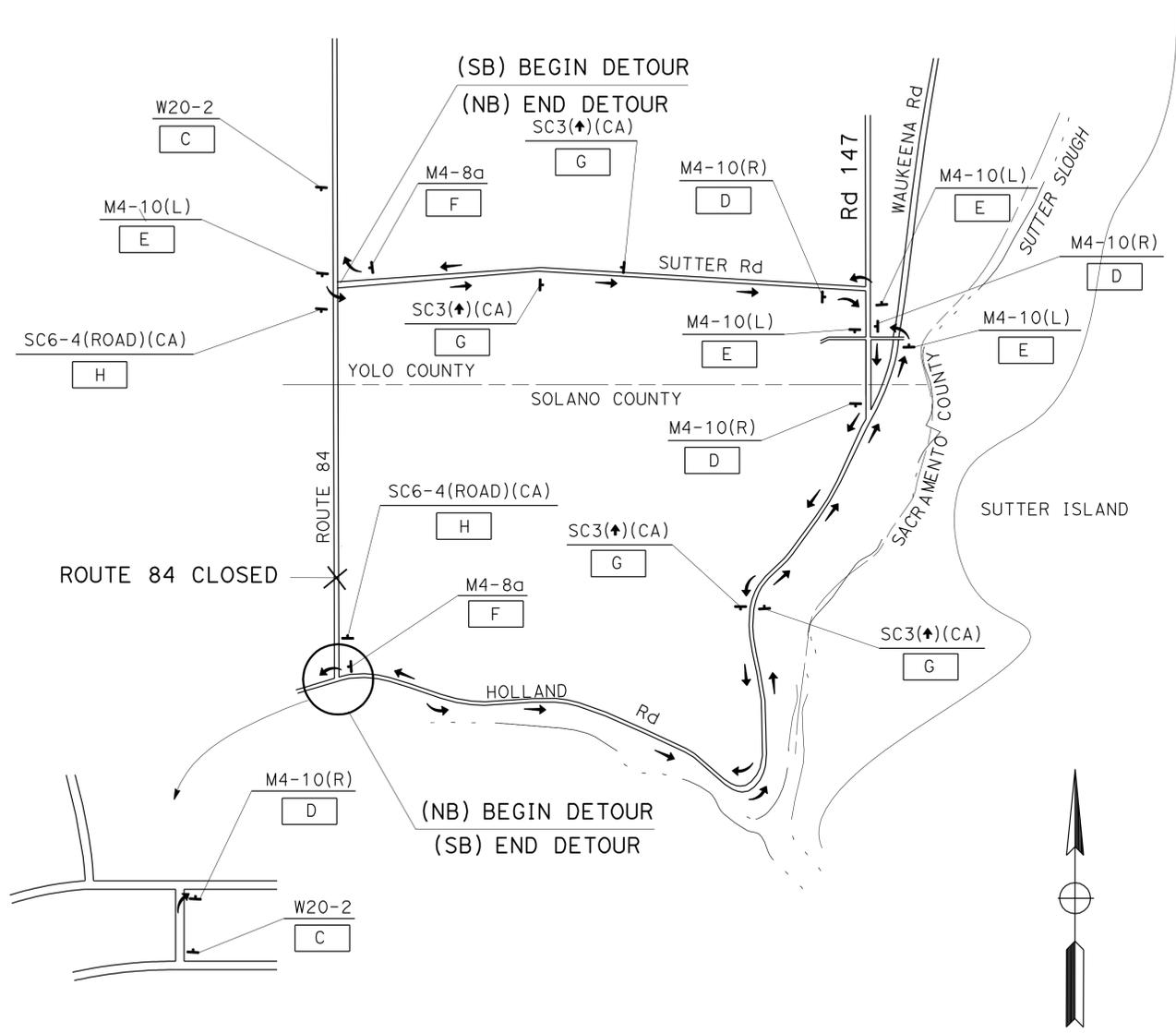
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LEOPOLDO G. BONGATO	REVISOR	LGB
Caltrans	LOURDES DAVID	DATE REVISOR	12/09/09
FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	CHECKED BY	
ROLAND AU-YEUNG			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	6	11

Lourdes David 3-30-10  
 REGISTERED CIVIL ENGINEER DATE  
 4-19-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Lourdes David  
 No. 51428  
 Exp. 6-30-10  
 CIVIL  
 STATE OF CALIFORNIA

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**DETOUR VIA:**

**SOUTHBOUND Rte 84:**  
 EAST ONTO Rd 160/W SUTTER Rd  
 SOUTH AT MORSE Rd/Rd 147  
 EAST TO STAY ON MORSE Rd/Rd 147  
 SOUTH ON Rd 145/WAUKEENA Rd  
 SOUTH ON HOLLAND Rd  
 WEST TO STAY ON HOLLAND Rd  
 TO SOUTHBOUND Rte 84

**NORTHBOUND Rte 84:**  
 EAST ON HOLLAND Rd  
 NORTH ON Rd 145/WAUKEENA Rd  
 WEST AT MORSE Rd/Rd 147  
 NORTH TO STAY ON MORSE Rd/Rd 147  
 WEST TO Rd 160/W SUTTER Rd  
 TO NORTHBOUND Rte 84

**DETOUR PLAN No. 3**

FULL CLOSURE OF ROUTE 84 FROM 12.1 TO 13.7

**CONSTRUCTION AREA SIGNS  
 DETOUR PLAN**  
 NO SCALE

**CS-4**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	7	11

*Robert Camargo* 3/30/10  
 REGISTERED CIVIL ENGINEER DATE  
 4-19-10  
 PLANS APPROVAL DATE

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### IMPORTED MATERIAL (SHOULDER BACKING)

DIRECTION	LOCATION PM	LENGTH(N)	WIDTH(N)	DEPTH(N)	VOLUME(N)	IMPORTED MATERIAL (SHOULDER BACKING)
		FT			CUFT	TONS
EB	8.6	70	6	0.167	70	5
EB	12.3	60	6	0.167	60	4
WB	8.2	230	6	0.167	230	17
WB	8.6	70	6	0.167	70	5
WB	9.3	50	6	0.167	50	4
WB	10.6	300	6	0.167	301	22
TOTAL						57

(N) NOT A PAY ITEM, FOR INFORMATION ONLY

### PAVEMENT DELINEATION

LOCATION PM/PM	DIRECTION	DESCRIPTION	DEATIL No.	REMOVE PAVEMENT MARKERS	REMOVE YELLOW THERMOPLASTIC STRIPE HAZARDOUS WASTE		REMOVE WHITE THERMOPLASTIC STRIPE	PAVEMENT MARKERS		4" THERMOPLASTIC TRAFFIC STRIPE		
					SOLID	BROKEN		RETROREFLECTIVE		YELLOW		WHITE
								EA	LF	TYPE D	TYPE H	BROKEN 36-12
					EA	LF		EA	LF	EA	LF	EA
7.5-13.7	EB		27B				32736					32736
13.7-7.5	WB		27B				32736					32736
7.5-7.7	EB & WB		22	115	2710			115			2710	
7.7-7.9	EB & WB		19	44	568	568		19	25	568	568	
7.9-8.2	EB & WB		6	38		1755		38		1755		
8.2-8.3	EB & WB		19	40	554	554		16	24	554	554	
8.4-9.5	EB & WB		19	33	444	444		13	20	444	444	
9.5-9.6	EB & WB		6	124		5918		124		5918		
9.6-10.7	EB & WB		19	28	305	305		9	19	305	305	
10.7-10.8	EB & WB		6	140		6651		140		6651		
10.9-11.0	EB & WB		19	33	447	447		13	20	447	447	
11.0-11.1	EB & WB		6	10		410		9		410		
11.1-12.1	EB & WB		19	24	340	340		10	14	340	340	
12.1-12.2	EB & WB		6	128		6100		128		6100		
12.2-12.3	EB & WB		19	15	185	185		6	9	185	185	
12.2-12.3	EB & WB	AFTER BRIDGE	22	54	1236			54			1236	
12.3-12.4	EB & WB		19	35	482	482		14	21	482	482	
12.4-13.0	EB & WB		6	96		3402		96		3402		
13.0-13.1	EB & WB		19	27	350	350		11	16	350	350	
13.1-13.2	EB & WB		19	22	295	295		9	13	295	295	
13.2-13.4	EB & WB		6	54		1906		54		1906		
13.4-13.7	EB & WB		19	28	376	376		11	17	376	376	
TOTAL				1088	8292	30488	65472	889	198	30488	8292	65472

**SUMMARY OF QUANTITIES**  
 NO SCALE  
**Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 RAMSES SARGISS  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 BRIAN SANTOS  
 ROBERT CAMARGO  
 REVISED BY  
 DATE REVISED  
 BS  
 04/05/10



**COLD PLANE AC PAVEMENT/HMA-A**

DIRECTION	POSTMILE	LENGTH (N)	WIDTH (N)	DEPTH (N)	COLD PLANE AC	HMA TYPE (A)
		FT			SQYD	TON
EB	7.5	23	6	0.5	15	5
	7.6	60	6	0.5	40	13
	8.8	100	9	0.5	100	33
	8.8	50	6	0.5	33	11
	9	30	6	0.5	20	7
	9.5	80	9	0.5	80	26
	9.7	200	9	0.5	200	65
	9.8	40	6	0.5	27	9
	9.9	760	9	0.5	760	248
	10.1	256	9	0.5	256	84
	10.2	50	9	0.5	50	16
	11.6	50	9	0.5	50	16
	12.2	30	9	0.5	30	10
	12.3	326	6	0.5	217	71
	12.6	520	6	0.5	347	113
	12.7	120	6	0.5	80	26
	12.9	400	10	0.5	444	145
	13.1	155	10	0.5	172	56
13.3	500	6	0.5	333	109	
13.6	400	10	0.5	444	145	
SUBTOTAL					3700	1207
WB	7.5	83	6	0.5	55	18
	7.6	52	6	0.5	35	11
	7.7	250	9	0.5	250	82
	7.7	75	6	0.5	50	16
	7.9	75	6	0.5	50	16
	7.9	24	4	0.5	11	3
	8.6	20	6	0.5	13	4
	9.1	50	6	0.5	33	11
	9.4	110	9	0.5	110	36
	9.5	50	9	0.5	50	16
	9.9	800	9	0.5	800	261
	11.6	20	9	0.5	20	7
	12.1	60	12	0.5	80	26
	12.2	30	9	0.5	30	10
	12.9	530	10	0.5	589	192
	13.0	30	6	0.5	20	7
	13.1	155	10	0.5	172	56
	13.5	450	6	0.5	300	98
13.6	400	10	0.5	444	145	
SUBTOTAL					3113	1016
TOTAL					6813	2223

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY  
EXACT LIMITS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SoI	84	7.5/13.7	8	11

*Robert Camargo* 3-30-10  
 REGISTERED CIVIL ENGINEER DATE  
 4-19-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**Robert Camargo**  
 No. 34402  
 Exp. 9-30-11  
 CIVIL  
 STATE OF CALIFORNIA

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**ASPHALT- RUBBER SEAL COAT**

DIRECTION	LOCATION PM-PM	SEAL RANDOM CRACKS	ASPHALTIC EMULSION (FOG SEAL)	SCREENING (HOT-APPLIED)	RUBBER ASPHALT BINDER	SAND COVER
		LNMI	TON			
EB	7.5-12.9	1.25	3.5	539.0	67.5	54.0
	12.1-13.6		1.5	222.5	28.0	22.5
WB	7.5-12.9	1.25	3.5	539.0	67.5	22.5
	12.1-13.6		1.5	222.5	28.0	54.0
TOTAL		2.50	10.0	1523.0	191.0	153.0

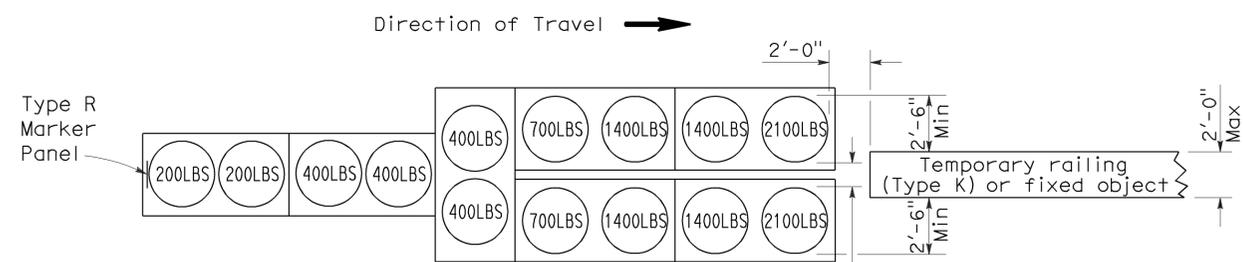
EXACT LIMITS AND LOCATIONS TO BE DETERMINED BY THE ENGINEER

**SUMMARY OF QUANTITIES**

NO SCALE

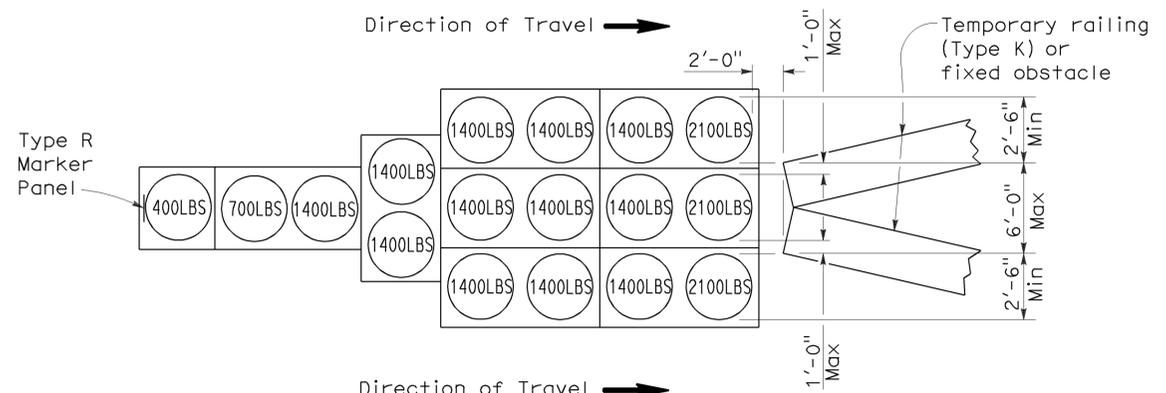
**Q-2**

To accompany plans dated 4-19-10



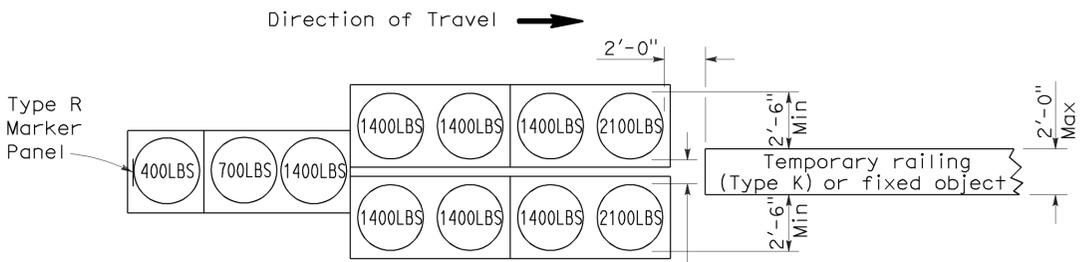
**ARRAY 'TU14'**

Approach speed 45 mph or more



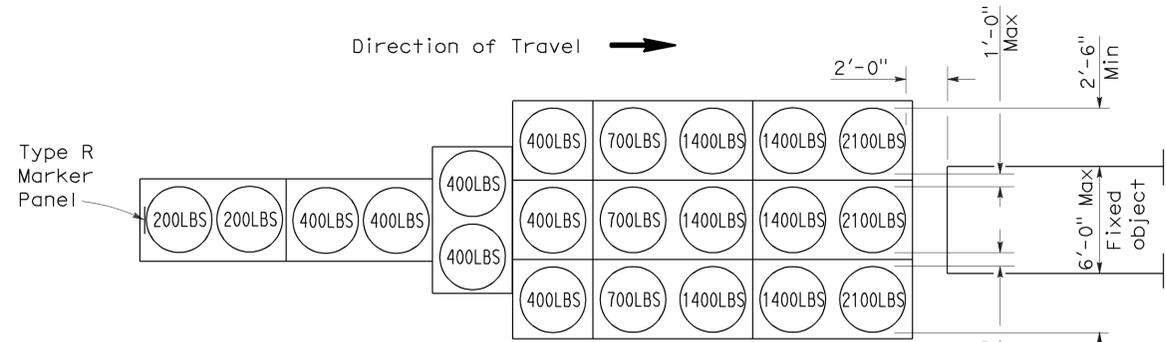
**ARRAY 'TU17'**

Approach speed less than 45 mph



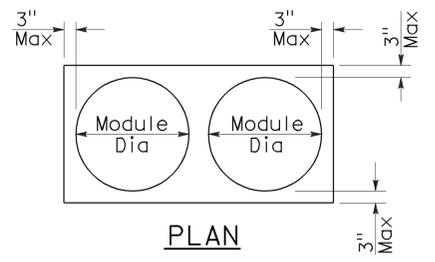
**ARRAY 'TU11'**

Approach speed less than 45 mph

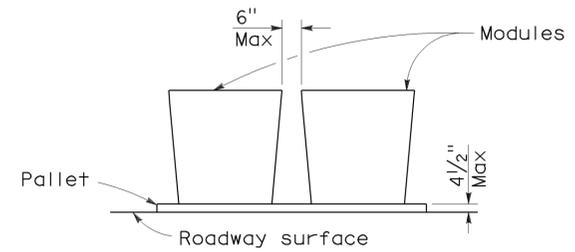


**ARRAY 'TU21'**

Approach speed 45 mph or more



**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
04	SoI	84	7.5/13.7	10	11

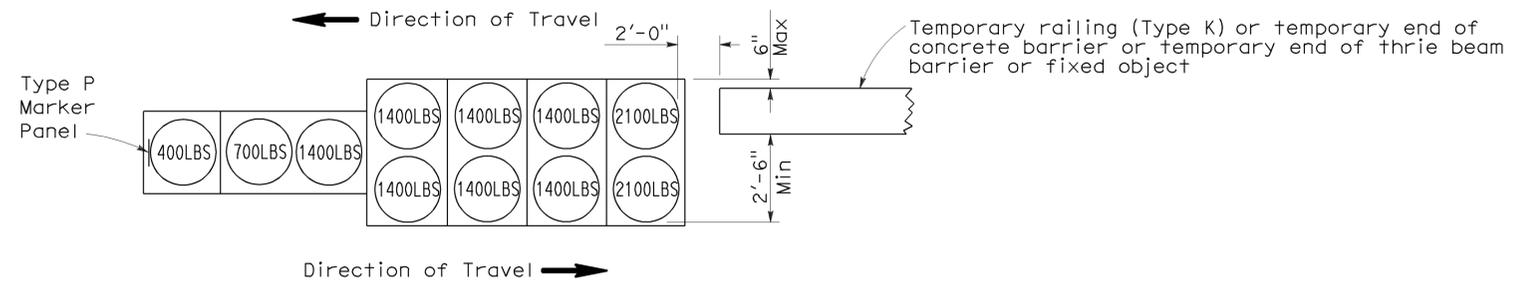
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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

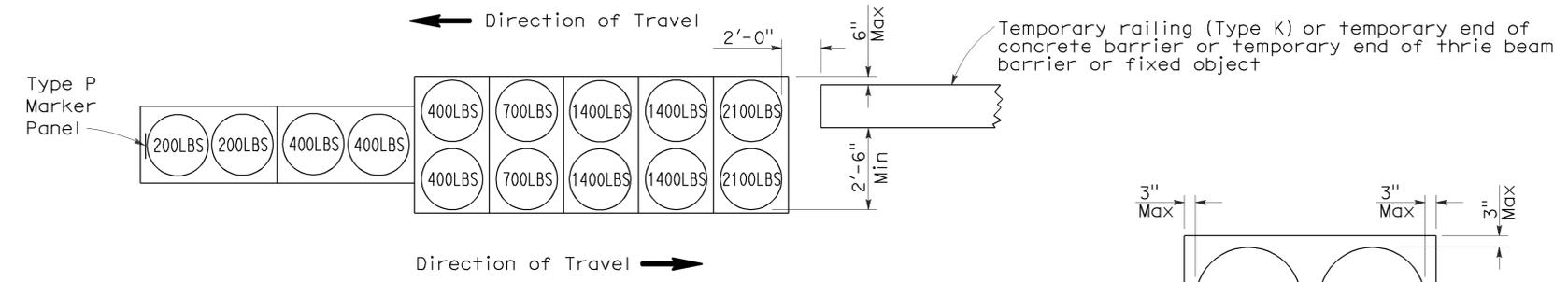
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To accompany plans dated 4-19-10



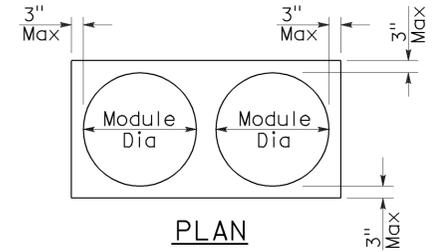
**ARRAY 'TB11'**

Approach speed less than 45 mph

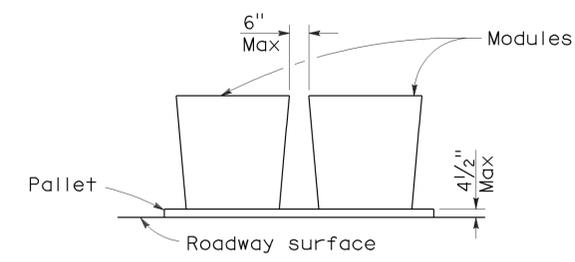


**ARRAY 'TB14'**

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SoI	84	7.5/13.7	11	11

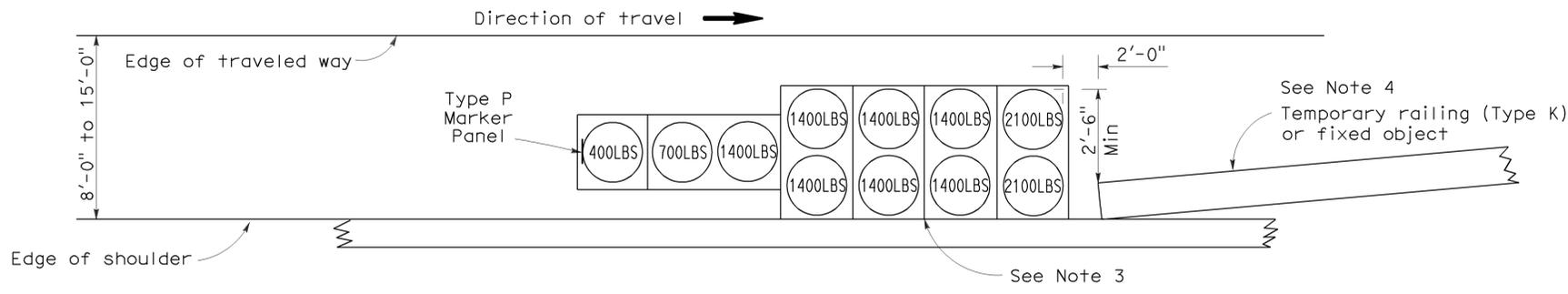
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

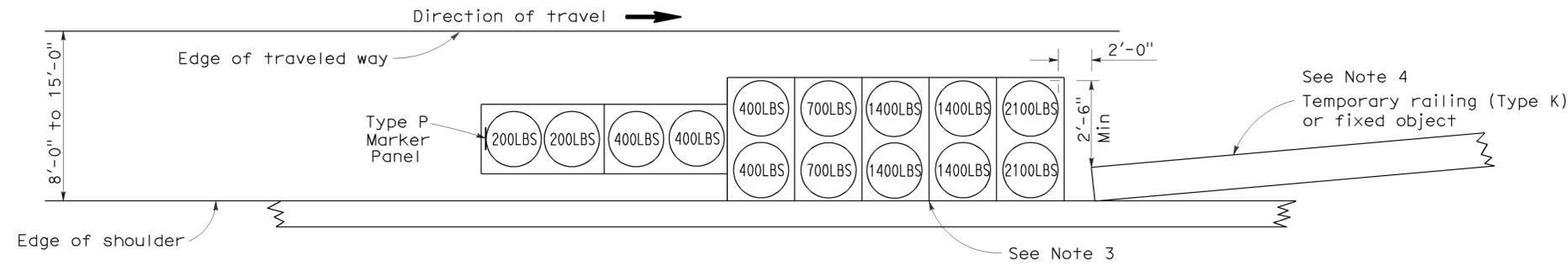
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REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

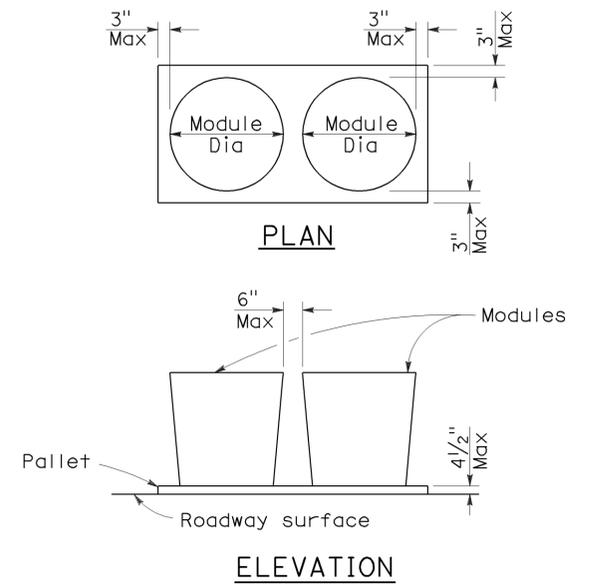
To accompany plans dated 4-19-10



**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