

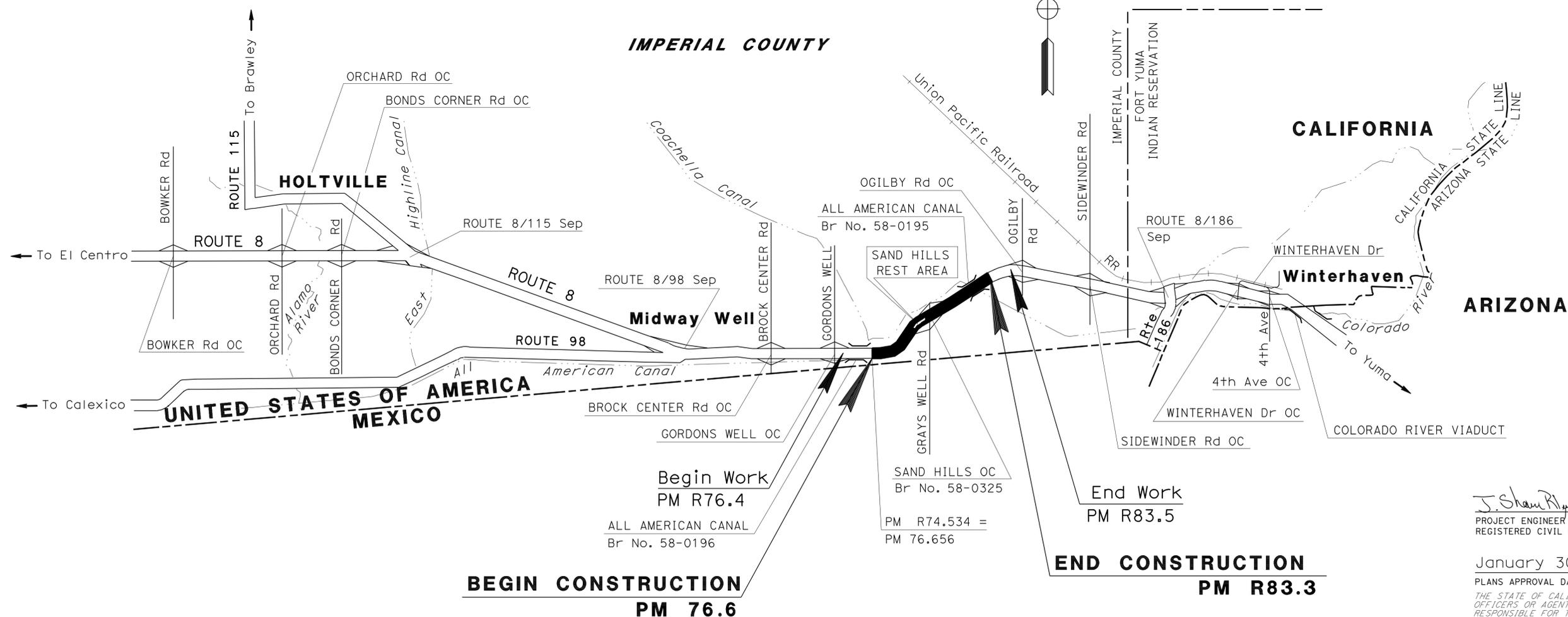
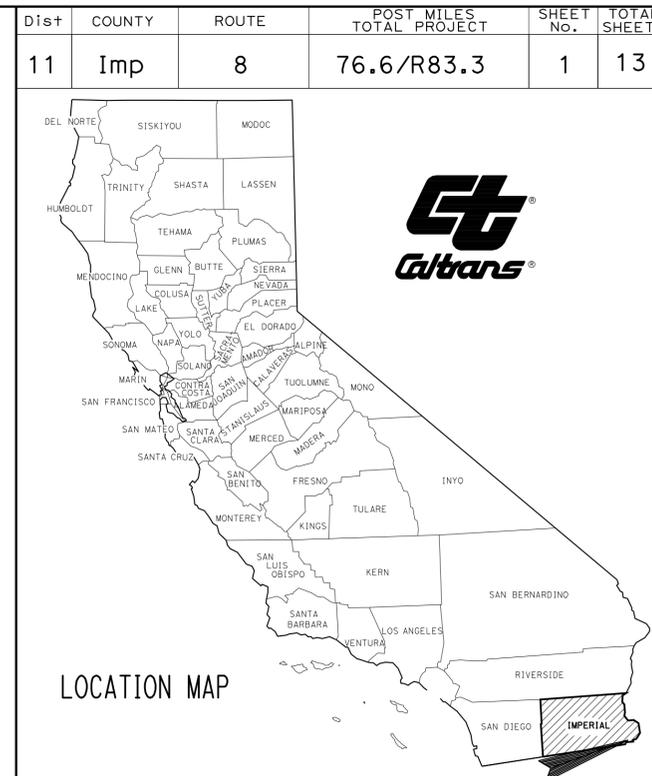
INDEX OF PLANS

Sheet No.	Description
1	Title and Location Map
2	Typical Cross Sections
3-4	Construction Details
5	Construction Area Signs
6	Pavement Delineation Details and Quantities
7-9	Summary of Quantities
10-13	Revised 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 IMPERIAL COUNTY
ABOUT 35 MILES EAST OF EL CENTRO FROM
1 MILE EAST OF GORDONS WELL OVERCROSSING
TO 0.5 MILES WEST OF OGILBY ROAD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
ALBERTO GAYON
 DESIGN ENGINEER
J. SHAWN RIZZUTTO

J. Shawn Rizzutto 02-14-11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 January 30, 2012
 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.	11-2M2604
PROJECT ID	1100020034

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

DATE PLOTTED => 01-FEB-2012
 TIME PLOTTED => 10:11
 LAST REVISION 02-24-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	2	13

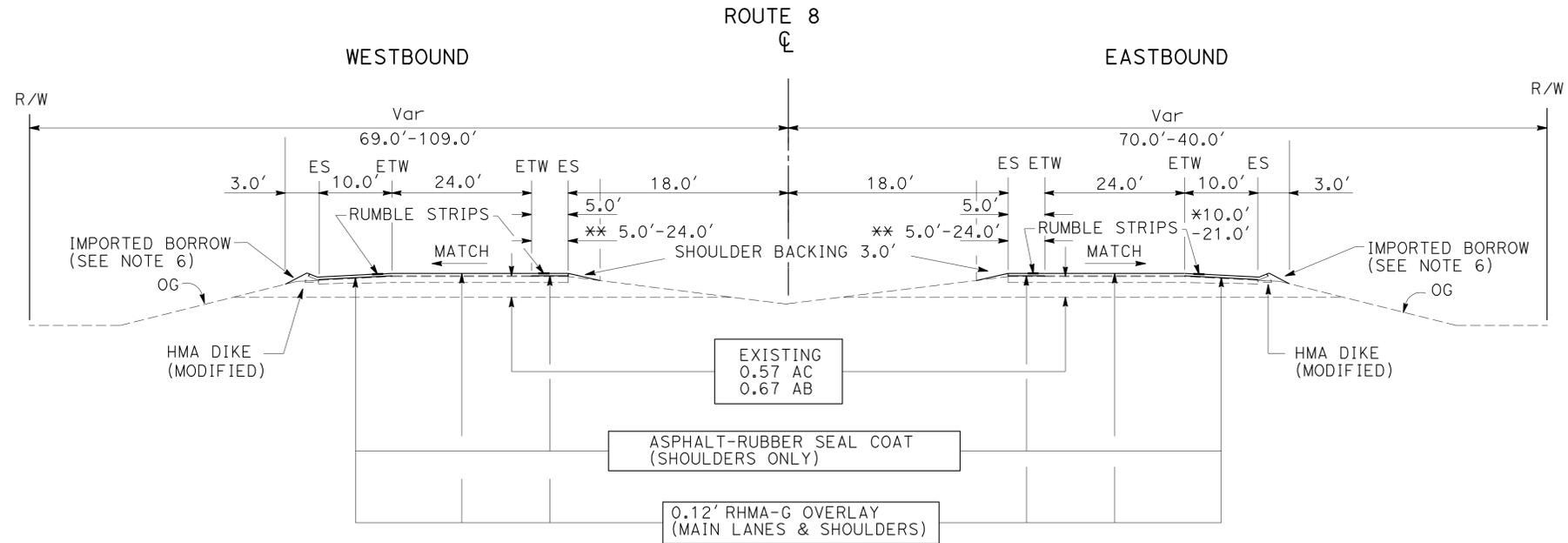
J. Shawn Rizzutto 02-14-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOG SEAL COAT SHALL BE APPLIED TO ALL HMA SURFACES EXCEPT TRAVELED WAYS.
3. CONSTRUCT SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS) ON ALL SHOULDERS.
4. FOR DIKE LOCATIONS, SEE SUMMARY OF QUANTITIES SHEETS.
5. SEE CONSTRUCTION DETAILS FOR DIKE, SHOULDER BACKING, AND PAVEMENT TRANSITION DETAILS.
6. IMPORTED BORROW WILL BE PLACED AT DIKE LOCATIONS, OTHERWISE PLACE SHOULDER BACKING

DESIGN DESIGNATION (ROUTE 8):

2009 ADT = 14,200 D = 50%
 2030 ADT = 25,200 T = 24%
 DHV = 1,790 V = 70 MPH



ROUTE 8

PM 76.60 TO R83.30

LEGEND:

- * = MAINTENANCE VEHICLE PULL OUT AREA AT PM 78.9.
- ** = 2376' OF REST AREA ENTRANCE/EXIT LANE, NO RUMBLE STRIPS ON INSIDE SHOULDERS
- RHMA-G = RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans CONSTRUCTION
 J. SHAWN RIZZUTTO
 FUNCTIONAL SUPERVISOR
 CHECKED BY
 VICENTE GARCIA TORRES
 REVISOR
 ALBERTINO HERNANDEZ
 DATE REVISOR
 REVISED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	4	13

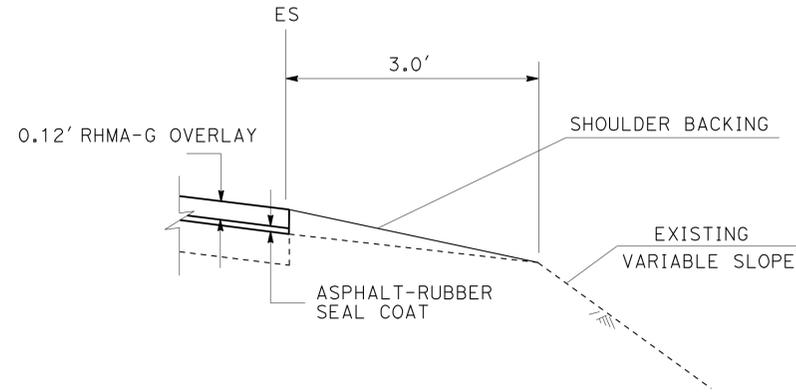
J. Shawn Rizzutto 02-14-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 J. SHAWN RIZZUTTO
 No. 56058
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

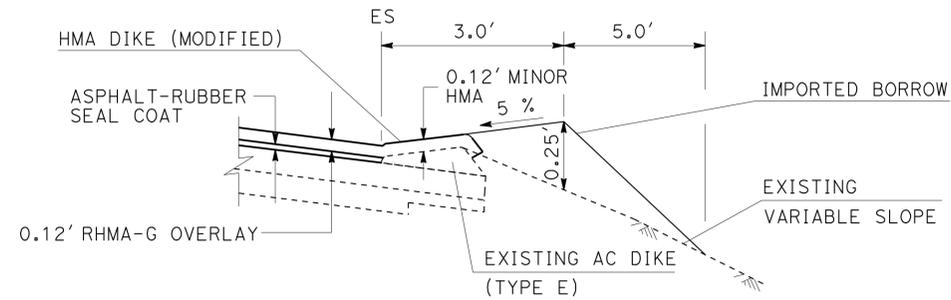
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NOTES:

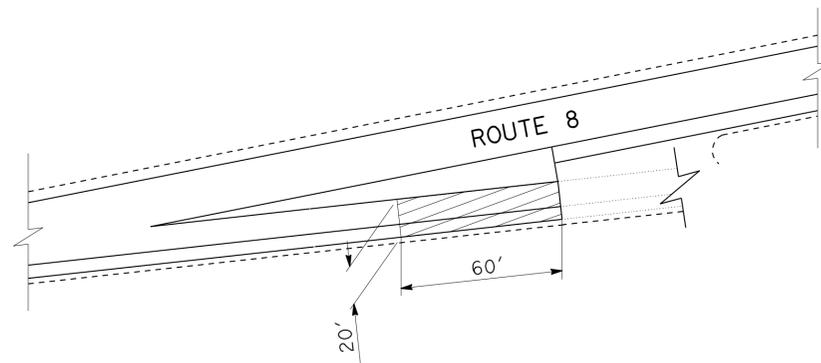
- CROSS SLOPE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- FOR IMPORTED BORROW AND SHOULDER BACKING LOCATIONS, SEE SUMMARY OF QUANTITIES SHEETS.



SHOULDER BACKING

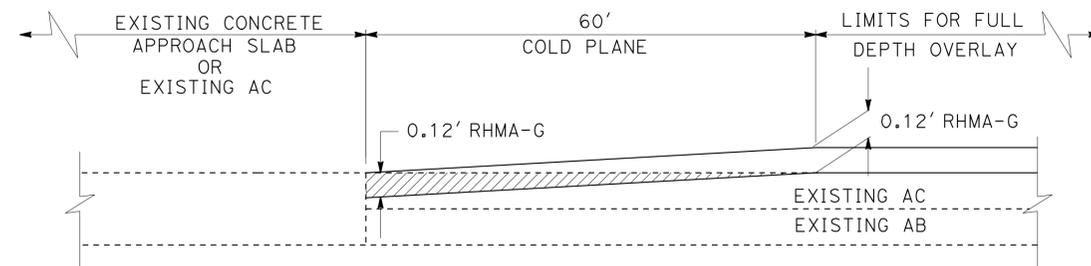


HMA DIKE (MODIFIED)



ON/OFF RAMP

CONFORM LIMITS AT RAMPS



CONFORM DETAIL

LEGEND:



COLD PLANE AC PAVEMENT (0'-0.12' Max)

CONSTRUCTION DETAILS

NO SCALE

C-2

CONSTRUCTION AREA SIGNS					
SIGN No.	TYPE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS	REMARKS
1	C40 (CA)	72 X 36	2-4 X 6 (S)	2	
2	C11 (7) (CA)	60 X 36	2-4 X 4 (S)	2	
3	C14 (CA)	48 X 24	1-4 X 4 (S)	4	
4	C23 (CA)	48 X 48	1-4 X 6 (S)	2	
5	SC6-4	48 X 72	PORTABLE	4	
TOTAL				14	

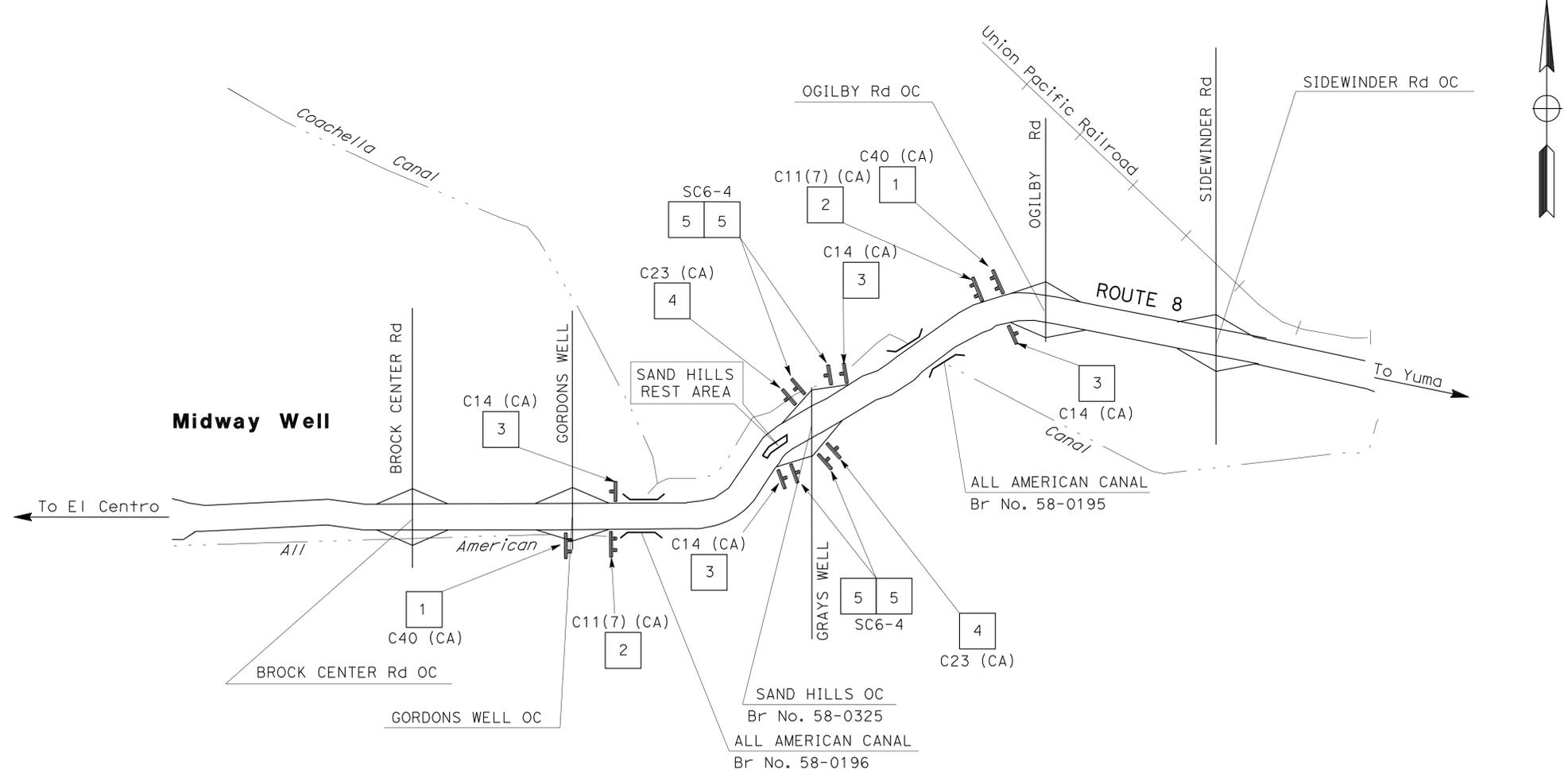
(S) DENOTES STATIONARY MOUNTED SIGN.

LEGEND:

- X = CONSTRUCTION AREA SIGN
- = DIRECTION OF TRAFFIC

NOTES:

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA MUTCD.
3. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans CONSTRUCTION
 FUNCTIONAL SUPERVISOR
 J. SHAWN RIZZUTTO
 CALCULATED/DESIGNED BY
 CHECKED BY
 ALBERTINO HERNANDEZ
 VICENTE GARCIA TORRES
 REVISED BY
 DATE REVISED

LAST REVISION DATE PLOTTED => 01-FEB-2012
 02-25-11 TIME PLOTTED => 10:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	6	13

J. Shawn Rizzutto 02-14-11
 REGISTERED CIVIL ENGINEER DATE

01-30-12
 PLANS APPROVAL DATE

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NOTES:

- (N) = NOT A SEPARATE PAY ITEM; FOR INFORMATION ONLY.
- ALL PAVEMENT DELINEATION SHALL BE REPLACED IN KIND UNLESS OTHERWISE NOTED.

TRAFFIC STRIPE SUMMARY

ROUTE	LOCATION		DETAIL No.	THERMOPLASTIC (LF)	
	FROM PM	TO PM		TRAFFIC STRIPE	8 In
8	76.60	R83.30	11/13	70,752	
8	76.60	R83.30	25	71,050	
8	76.60	R83.30	27B	71,283	
8	76.60	R83.30	38		3,458
8	76.60	R83.30	36		1,322
8	76.60	R83.30	36A		708
8	76.60	R83.30	8	290	
TOTAL				213,375	5,488

THERMOPLASTIC PAVEMENT MARKING

ROUTE	LOCATION		AIRCRAFT ENFORCEMENT MARKING (WHITE) (TYPE 1)	ARROW TYPE V	REMARKS
	FROM PM	TO PM			
8	76.60	R83.30		132	WESTBOUND
8	76.60	R83.30	42	132	EASTBOUND
SUB-TOTAL			42	264	
TOTAL			306		

PAVEMENT MARKER SUMMARY

ROUTE	LOCATION		DETAIL No.	PAVEMENT MARKERS (EA)		
	FROM PM	TO PM		NON-REFLECTIVE	RETROREFLECTIVE	
				TYPE A	TYPE G	TYPE H
8	76.60	R83.30	11/13	5,653	1,484	
8	76.60	R83.30	25			1,592
8	76.60	R83.30	27B			
8	76.60	R83.30	38		165	
8	76.60	R83.30	36		110	
8	76.60	R83.30	36A		30	
8	76.60	R83.30	8			
SUB-TOTAL				5,653	1,789	1,592
TOTAL				5,653	3,381	

REMOVE PAVEMENT MARKERS (N)

LOCATION		TYPE	QUANTITY EACH
FROM PM	TO PM		
76.60	R83.30	A,G,H	9,034
TOTAL			9,034

AIRCRAFT ENFORCEMENT MARKING TYPE 1 (N)

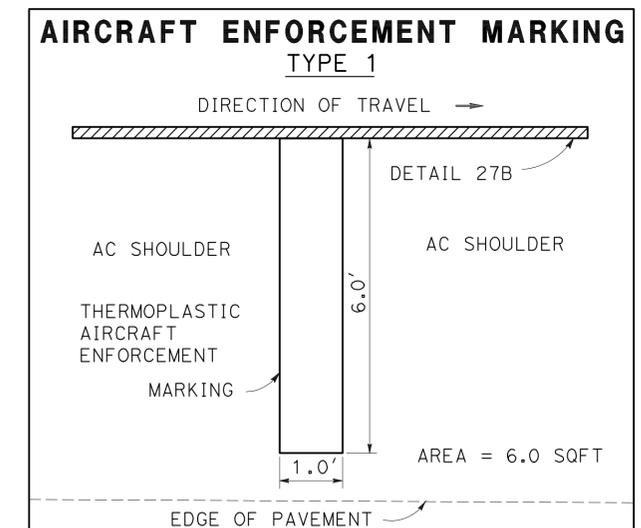
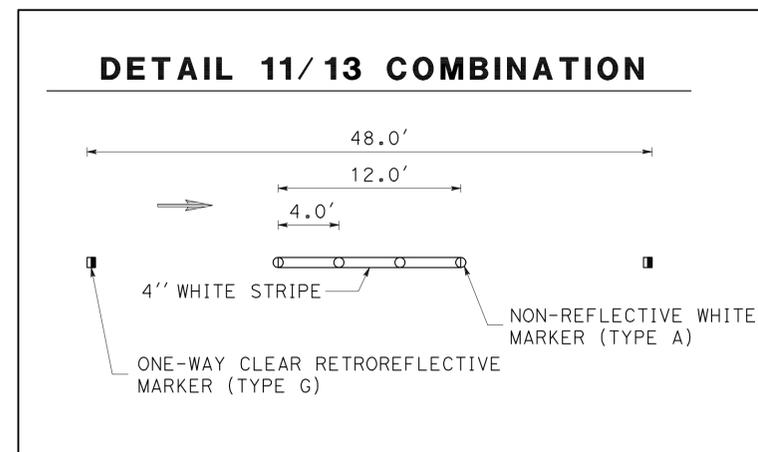
LOCATION	EA	REMARKS
PM 77.0-R83.0 (EB)	7	1 AT EVERY MILE

REMOVE THERMOPLASTIC PAVEMENT MARKING

DIRECTION	LOCATION	TYPE	SQFT
WE/EB	PM 76.60-R83.30	V ARROW	264
EB	PM 76.60-R83.30	AIRCRAFT MARKING	42
TOTAL			306

REMOVE THERMOPLASTIC TRAFFIC STRIPE

DIRECTION	LOCATION	TYPE	LF
WB/EB	PM 76.60-R83.30	DETAILS 8, 36, 36A, AND 38	5,778
TOTAL			5,778



PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	7	13

J. Shawn Rizzutto 02-14-11
 REGISTERED CIVIL ENGINEER DATE
 01-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 J. SHAWN RIZZUTTO
 No. 56058
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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ASPHALT-RUBBER SEAL COAT QUANTITIES

FROM PM	TO PM	DIRECTION	LENGTH (N)	WIDTH (N)	AREA (N)	ASPHALT-RUBBER BINDER	SCREENINGS (HOT-APPLIED)	COMMENTS
			LF	LF	SQFT	TON	TON	
76.60	83.30	WB	35,136	15	527,040	136.15	1171.20	LENGTH DOES NOT INCLUDE COLD PLANE SECTIONS
80.09	80.54	WB	720	14	10,080	2.60	22.40	REST AREA (FULL LANES 14')
80.09	80.54	WB	1,656	9.5	15,732	4.06	34.96	REST AREA (MERGING FROM 5' TO 14')
80.63	80.81	WB	964	15	16,388	4.23	36.42	WB GRAYS WELLS ON RAMP
80.94	80.98	WB	390	15	5,850	1.51	13.00	WB GRAYS WELLS OFF RAMP
76.60	83.30	EB	35,136	15	527,040	136.15	1171.20	LENGTH DOES NOT INCLUDE COLD PLANE SECTIONS
78.90	79.00	EB	528	15.5	8,184	2.11	18.19	MAINTENANCE VEHICLE PULL-OUT
80.09	80.54	EB	720	14	10,080	2.60	22.40	REST AREA (FULL LANES 14')
80.09	80.54	EB	1,656	9.5	15,732	4.06	34.96	REST AREA (MERGING FROM 5' TO 14')
80.62	80.69	EB	378	15	5,670	1.46	12.60	EB GRAYS WELLS OFF RAMP
80.86	81.03	EB	877	15	13,155	3.40	29.23	EB GRAYS WELLS ON RAMP
				TOTAL		298.33	2,566.56	

RUBBERIZED HOT MIX ASPHALT OVERLAY QUANTITIES

FROM PM	TO PM	DIRECTION	LENGTH (N)	WIDTH (N)	AREA (N)	TACK COAT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	ASPHALT EMULSION (FOG SEAL COAT)
			LF	LF	SQFT	TON	TON	TON
76.60	83.30	WB	35,376	39	1,379,664	36.35	12,251.42	14.35
80.09	80.54	WB	720	14	10,080	0.27	89.51	0.27
80.09	80.54	WB	1,656	9.5	15,732	0.41	139.70	0.43
80.63	80.81	WB	964	17	16,388	0.43	145.53	0.45
80.94	80.98	WB	390	15	5,850	0.15	51.95	0.16
76.60	83.30	EB	35,376	39	1,379,664	36.35	12,251.42	14.35
78.90	79.00	EB	528	15.5	8,184	0.22	72.67	0.22
80.09	80.54	EB	720	14	10,080	0.27	89.51	0.27
80.09	80.54	EB	1,656	9.5	15,732	0.41	139.70	0.43
80.62	80.69	EB	378	15	5,670	0.15	50.35	0.15
80.86	81.03	EB	877	15	13,155	0.35	116.82	0.36
				TOTAL		75.36	25,398.58	31.44

(N) NON-PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans CONSTRUCTION
 FUNCTIONAL SUPERVISOR
 J. SHAWN RIZZUTTO
 CALCULATED/DESIGNED BY
 CHECKED BY
 ALBERTINO HERNANDEZ
 VICENTE GARCIA TORRES
 REVISED BY
 DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	8	13

J. Shawn Rizzutto 02-14-11
 REGISTERED CIVIL ENGINEER DATE

01-30-12
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS
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COLD PLANE ASPHALT CONCRETE PAVEMENT

LOCATION PM	DIRECTION	DESCRIPTION	AREA SQYD
76.60	WB/EB	PAVEMENT TRANSITION TO PCC	520
77.39	WB	SLOTTED PIPE TRANSITION	45
77.58	WB	SLOTTED PIPE TRANSITION	45
77.81	WB	SLOTTED PIPE TRANSITION	45
78.08	WB	SLOTTED PIPE TRANSITION	45
78.17	WB	SLOTTED PIPE TRANSITION	45
78.78	EB	SLOTTED PIPE TRANSITION	45
79.16	EB	SLOTTED PIPE TRANSITION	45
79.19	EB	SLOTTED PIPE TRANSITION	45
81.92	WB/EB	ALL AMERICAN CANAL TRANSITION	1,040
80.20	WB/EB	REST AREA WB/EB OFF/ON RAMPS	240
80.43	WB/EB	REST AREA WB/EB ON/OFF RAMPS	240
80.69	EB	EB GRAY WELLS OFF RAMP	134
80.83	WB	WB GRAY WELLS ON RAMP	134
80.86	EB	EB GRAY WELLS ON RAMP	134
80.94	WB	WB GRAY WELLS OFF RAMP	134
83.26	WB/EB	PAVEMENT TRANSITION TO PCC	520
TOTAL			3,456

HMA DIKE QUANTITIES

FROM PM	TO PM	DIRECTION	PLACE HMA DIKE (MODIFIED)		MINOR HMA TON
			LF	CY (N)	
77.37	78.26	WB	4,712	30.63	61.26
80.71	80.85	WB	732	4.76	9.52
80.94	81.30	WB	1,916	12.45	24.91
81.98	82.00	WB	106	0.69	1.38
78.78	79.45	EB	3,557	23.12	46.24
80.65	80.73	EB	430	2.80	5.59
80.86	81.54	EB	3,612	23.48	46.96
TOTAL			15,065	97.92	195.86

(N) NON-PAY ITEM, FOR INFORMATION ONLY.

SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)

FROM PM	TO PM	DIRECTION	SIDE	STA
76.60	R83.30	WB	L+/R+	707.52
76.60	R83.30	EB	L+/R+	707.52
TOTAL				1,415.04

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans CONSTRUCTION
 FUNCTIONAL SUPERVISOR
 J. SHAWN RIZZUTTO
 CALCULATED/DESIGNED BY
 CHECKED BY
 ALBERTINO HERNANDEZ
 VICENTE GARCIA TORRES
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	9	13

J. Shawn Rizzutto 02-14-11
 REGISTERED CIVIL ENGINEER DATE

01-30-12
 PLANS APPROVAL DATE

J. SHAWN RIZZUTTO
 No. 56058
 Exp. 12-31-12
 CIVIL

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SHOULDER BACKING

FROM PM	TO PM	DIRECTION	LENGTH (N)	SHOULDER BACKING	COMMENTS
			LF	TON	
76.60	77.37	WB	4,066	265.31	INSIDE & OUTSIDE SHOULDERS
77.37	78.26	WB	4,712	153.73	INSIDE SHOULDER
78.26	80.71	WB	12,936	844.07	INSIDE & OUTSIDE SHOULDER
80.71	80.85	WB	739	24.12	INSIDE SHOULDER
80.85	80.94	WB	475	31.01	INSIDE & OUTSIDE SHOULDER
80.94	81.30	WB	1,916	62.51	INSIDE SHOULDER
81.30	81.98	WB	3,590	234.27	INSIDE & OUTSIDE SHOULDER
81.98	82.00	WB	62	2.02	INSIDE SHOULDER
82.00	83.30	WB	6,864	447.88	INSIDE & OUTSIDE SHOULDER
76.60	77.37	EB	4,066	265.31	INSIDE & OUTSIDE SHOULDER
77.37	78.78	EB	7,445	485.77	INSIDE & OUTSIDE SHOULDER
78.78	79.45	EB	3,557	117.34	INSIDE SHOULDER
79.45	80.65	EB	6,336	413.42	INSIDE & OUTSIDE SHOULDER
80.65	80.73	EB	430	14.03	INSIDE SHOULDER
80.73	80.86	EB	686	44.79	INSIDE & OUTSIDE SHOULDER
80.86	81.54	EB	3,590	117.14	INSIDE SHOULDER
81.54	83.30	EB	9,293	606.36	INSIDE & OUTSIDE SHOULDER
			TOTAL	4,129.08	

IMPORTED BORROW

FROM PM	TO PM	DIRECTION	LENGTH (N)	IMPORTED BORROW	COMMENTS
			LF	CY	
77.37	78.26	WB	4,712	201.05	MODIFIED DIKE
80.71	80.85	WB	739	31.54	MODIFIED DIKE
80.94	81.30	WB	1,916	81.75	MODIFIED DIKE
81.98	82.00	WB	62	2.65	MODIFIED DIKE
78.78	79.45	EB	3,557	151.77	MODIFIED DIKE
80.65	80.73	EB	430	18.35	MODIFIED DIKE
80.86	81.54	EB	3,590	153.19	MODIFIED DIKE
			TOTAL	640.30	

(N) NON-PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	10	13

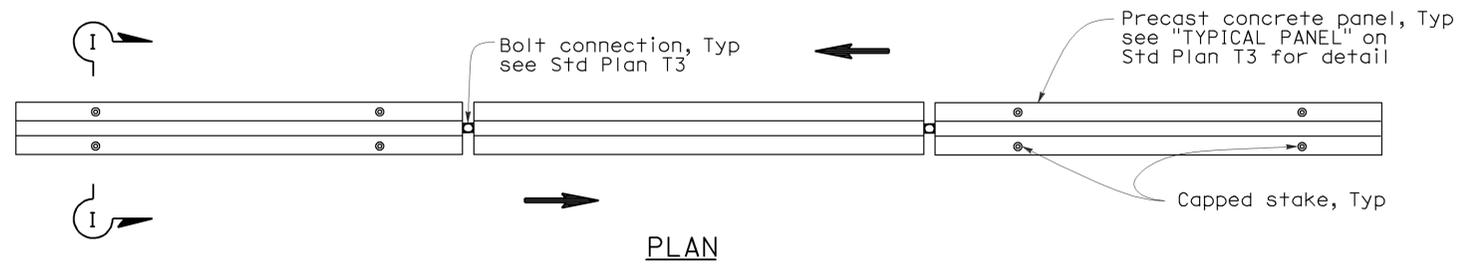
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

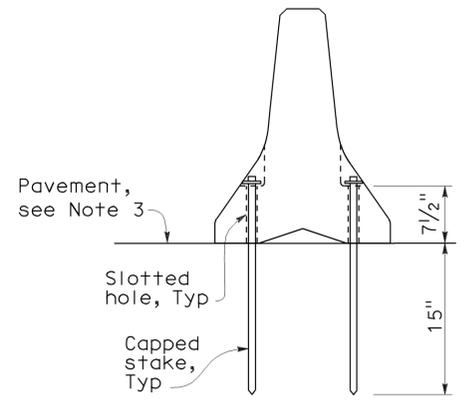
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 01-30-12

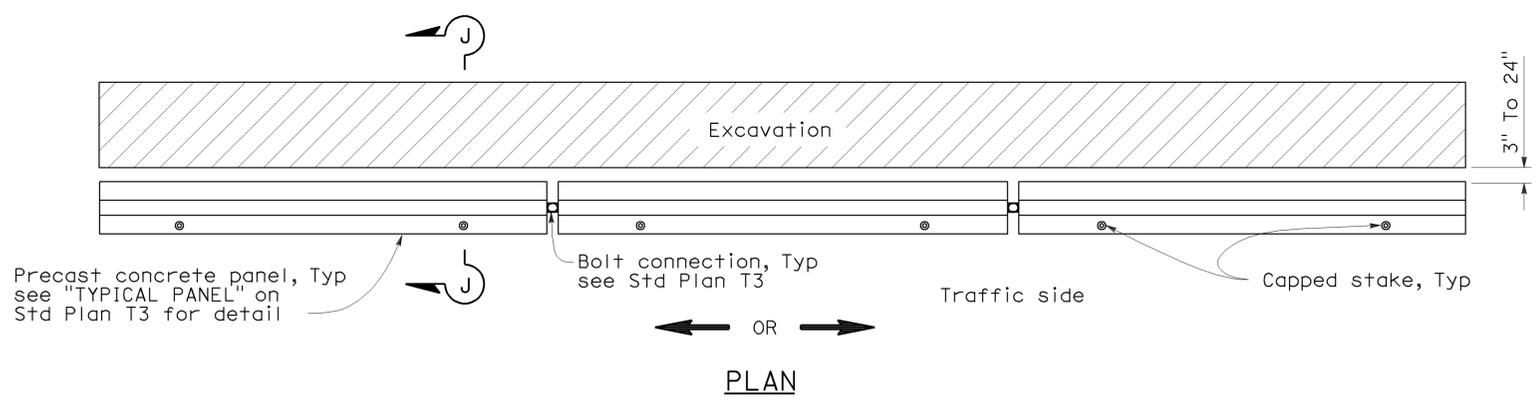


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

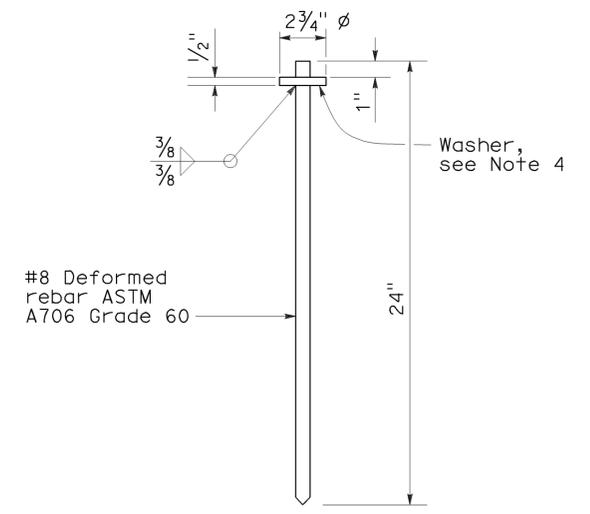
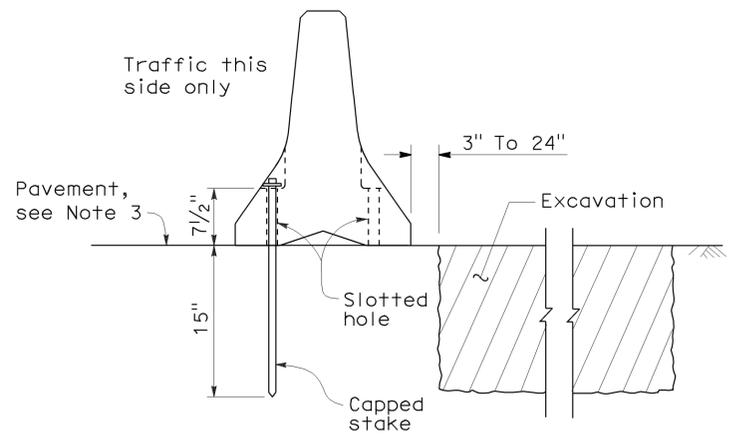


NOTES:

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 \Rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



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.

2006 NEW STANDARD PLAN NSP T3A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	11	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

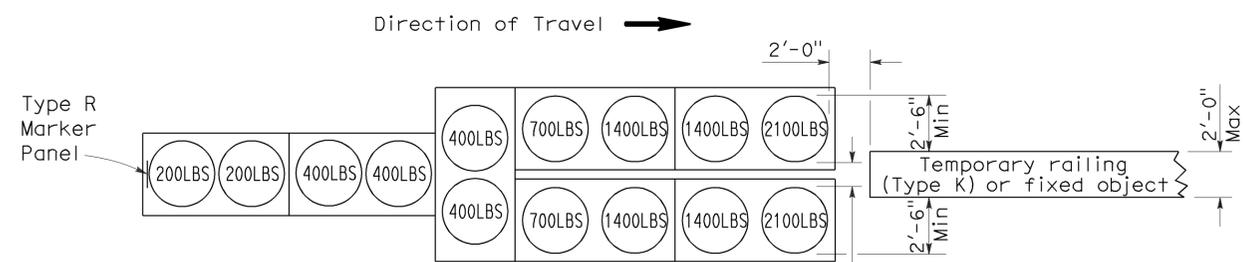
June 6, 2008
PLANS APPROVAL DATE

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

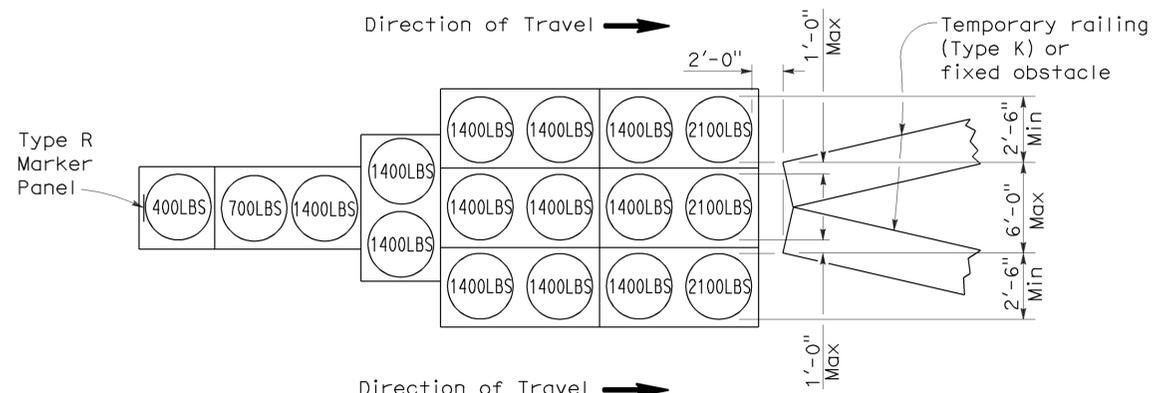
To accompany plans dated 01-30-12

2006 REVISED STANDARD PLAN RSP T1A



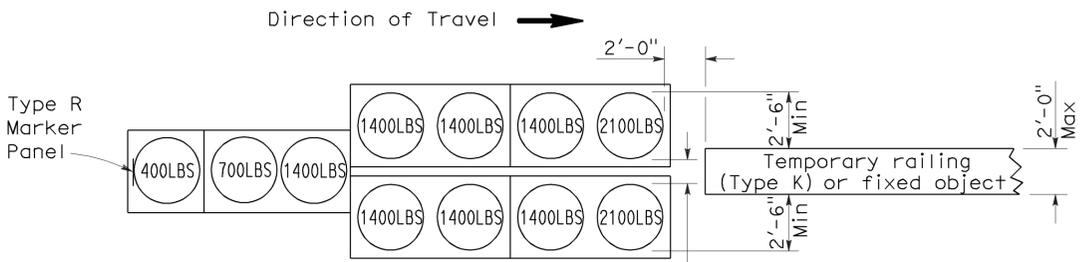
ARRAY 'TU14'

Approach speed 45 mph or more



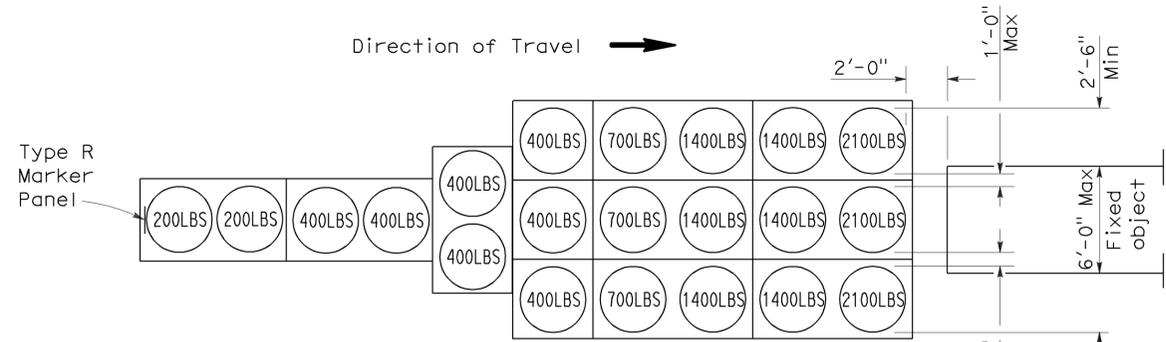
ARRAY 'TU17'

Approach speed less than 45 mph



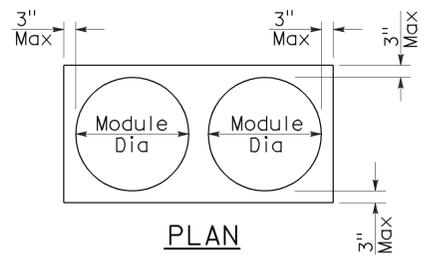
ARRAY 'TU11'

Approach speed less than 45 mph

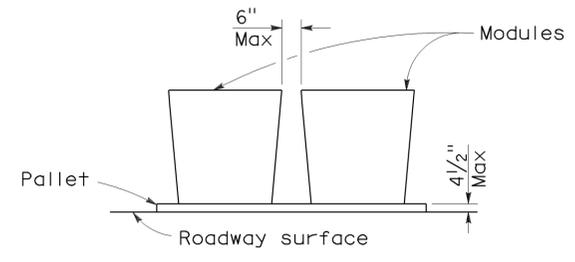


ARRAY 'TU21'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	12	13

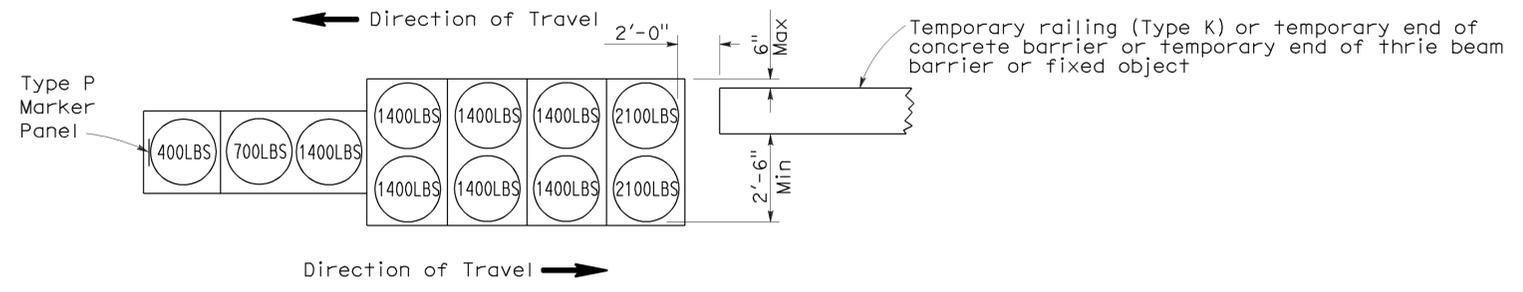
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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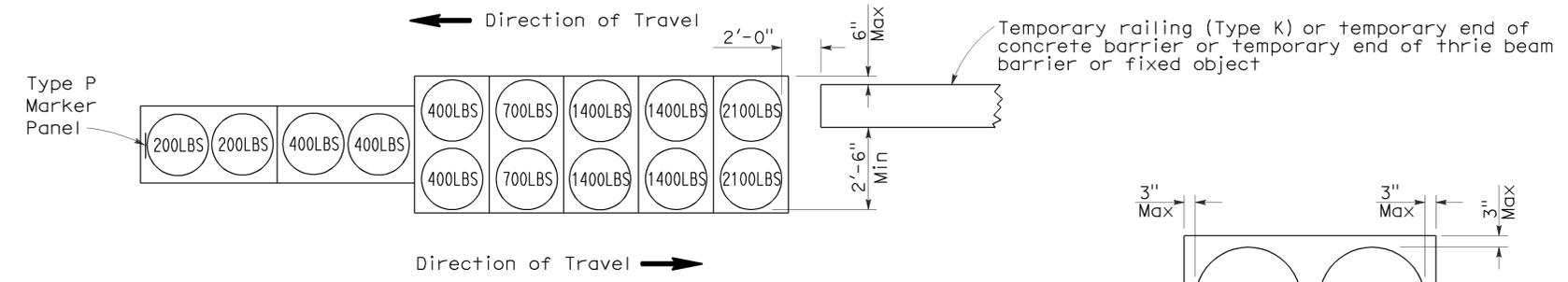
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 01-30-12



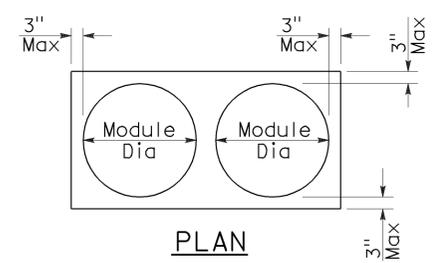
ARRAY 'TB11'

Approach speed less than 45 mph

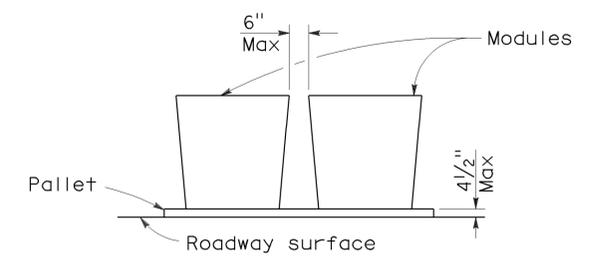


ARRAY 'TB14'

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

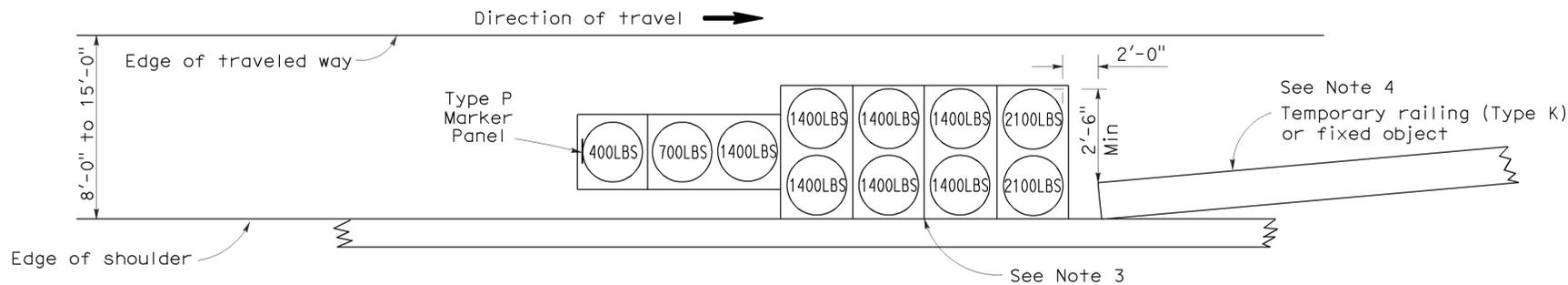
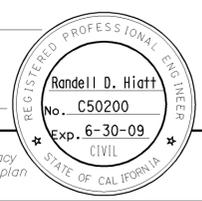
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	76.6/R83.3	13	13

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

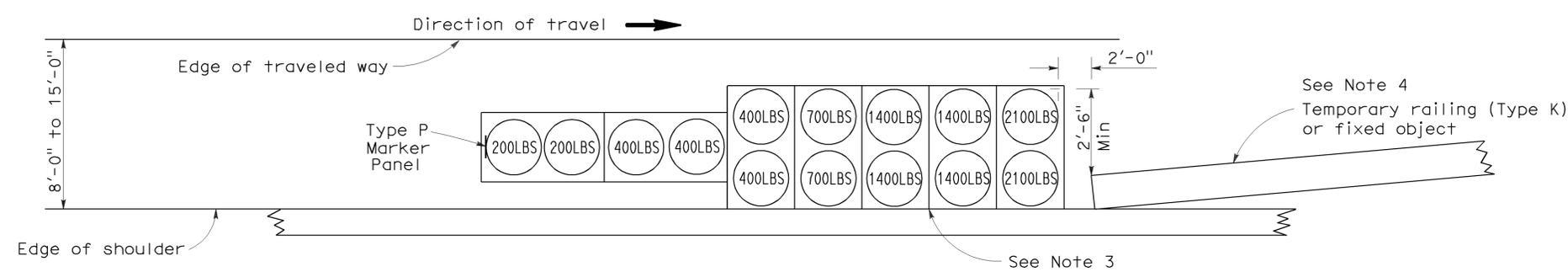
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated 01-30-12



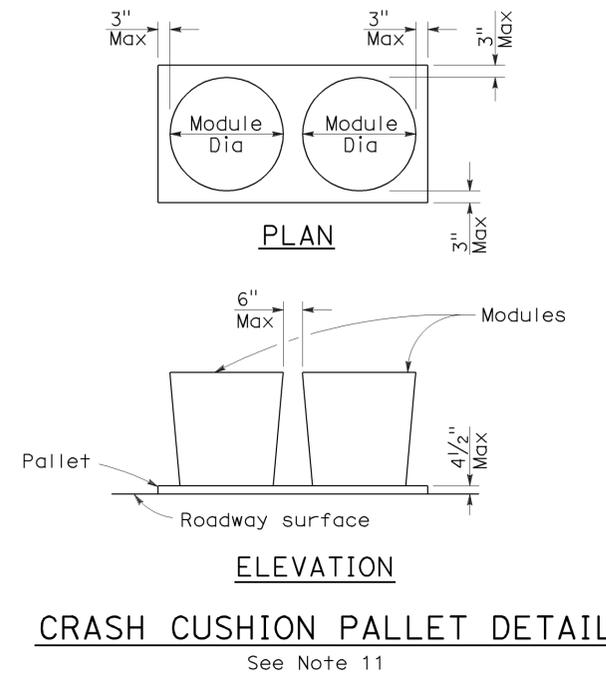
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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