Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SLO	41	43.9/49.6	1	9

INDEX OF 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

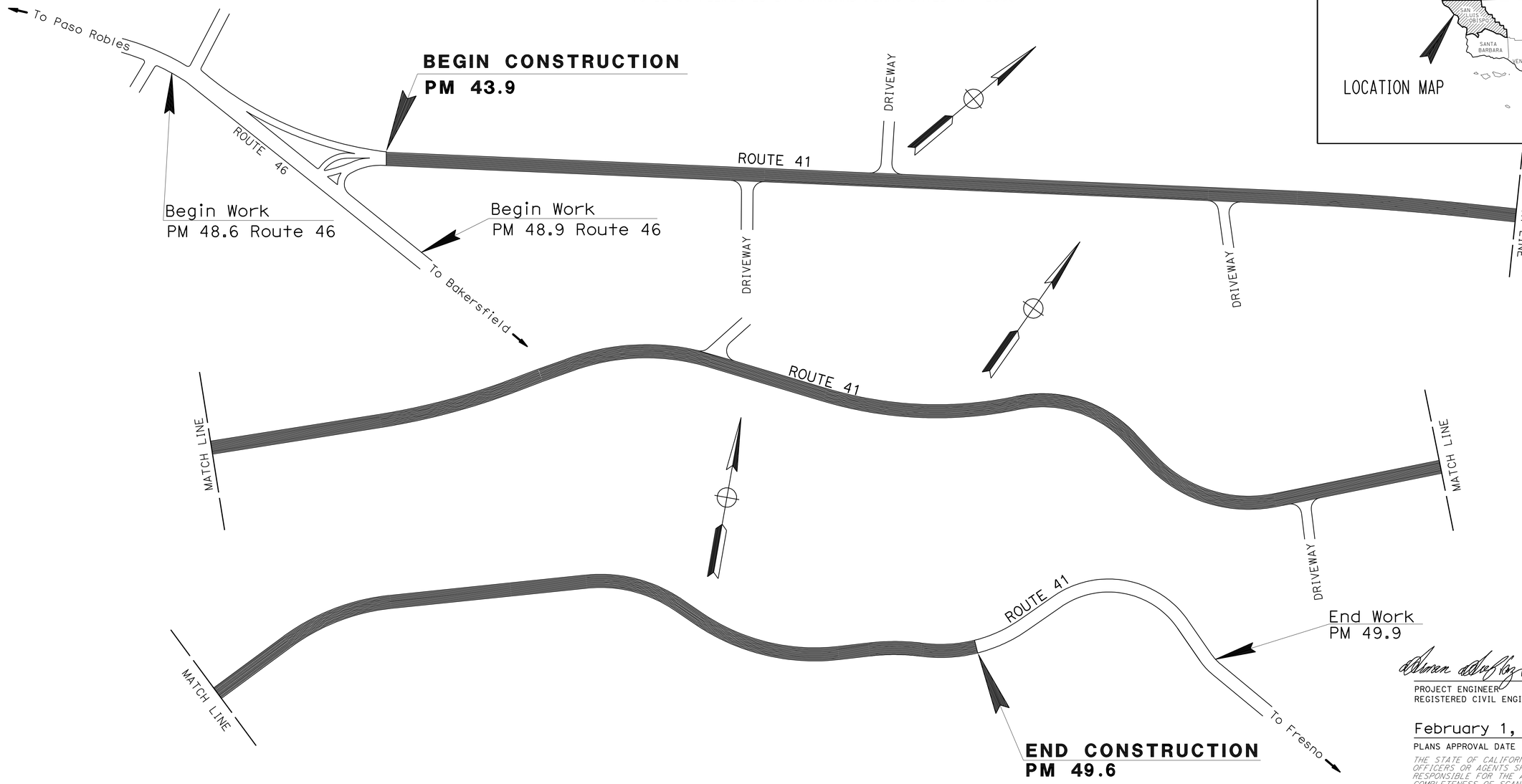
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN LUIS OBISPO COUNTY
ABOUT 25 MILES EAST OF PASO ROBLES
FROM EAST JUNCTION ROUTE 46
TO 5.7 MILE NORTH OF EAST JUNCTION ROUTE 46

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



NO SCALE

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

PROJECT MANAGER: KELLY McCLAIN

DESIGN ENGINEER: KELLY McCLAIN

12-09-09
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

Arman Asefvaziri
No. 52047
Exp. 12/31/10
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

February 1, 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.

LAST REVISION 12-09-09
DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 13:37

CONTRACT No. 05-0S2004

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SLO	41	43.9/49.6	2	9

12-09-09
REGISTERED CIVIL ENGINEER DATE

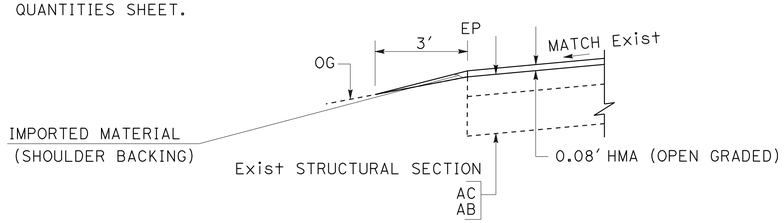
2-1-10
PLANS APPROVAL DATE

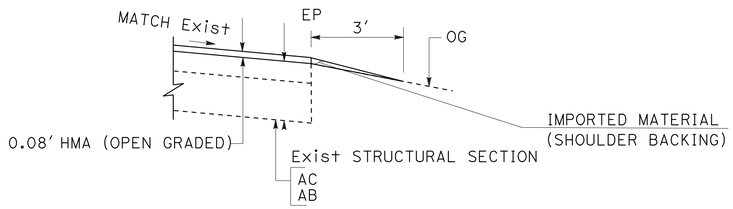
REGISTERED PROFESSIONAL ENGINEER
Arman Asefvaziri
No. 52047
Exp.12/31/10
CIVIL
STATE OF CALIFORNIA

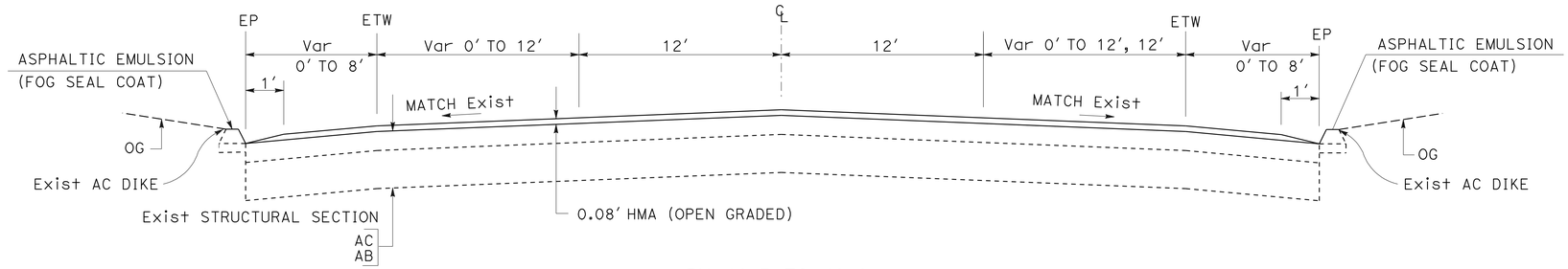
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. ASPHALTIC EMULSION (FOG SEAL COAT) SHALL BE APPLIED TO EXISTING AC DIKE, DOWNDRAINS AND OVERSIDE DRAINS.
4. EXACT LOCATION OF HMA DIKES ARE SHOWN ON SUMMARY OF QUANTITIES SHEET.
5. EXACT LOCATION OF COLD PLANE AC BERMS ARE SHOWN ON SUMMARY OF QUANTITIES SHEET.

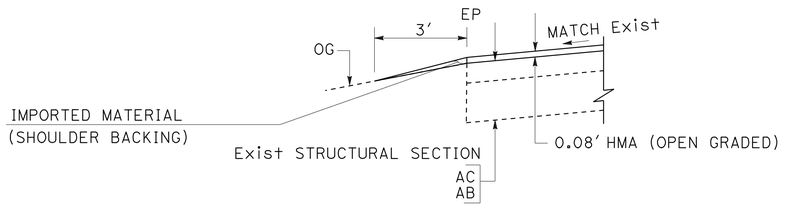


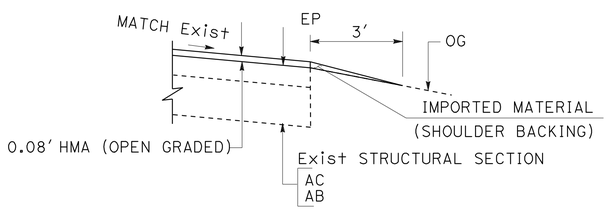


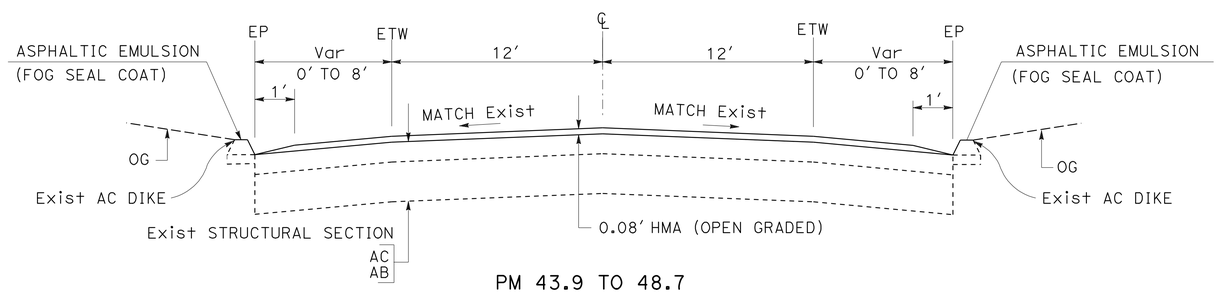


PM 48.7 TO 49.6

ROUTE 41







PM 43.9 TO 48.7

ROUTE 41

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY McCLAIN

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ARMAN ASEFVAZIRI	KELLY McCLAIN		10/15/09

LAST REVISION | DATE PLOTTED => 04-FEB-2010
12-09-09 | TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trienard
DGN FILE => 50S200ca001.dgn

CU 05602

EA 0S2001

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SLO	41	43.9/49.6	3	9

Arman Asefvaziri 12-09-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Arman Asefvaziri No. 52047 Exp.12/31/10 CIVIL — STATE OF CALIFORNIA

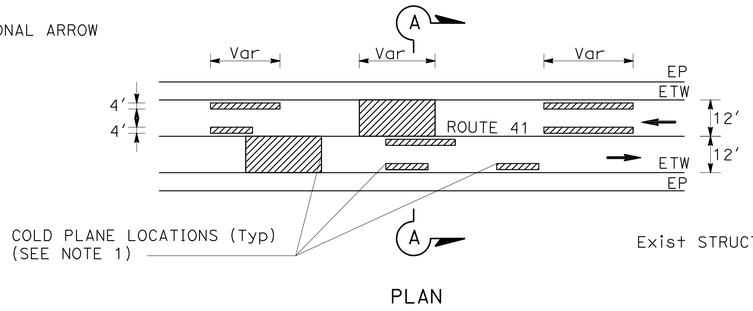
NOTE:

1. FOR LOCATIONS OF COLD PLANE AC BERM AND COLD PLANE AC PAVEMENT SEE SUMMARY OF QUANTITIES SHEET.

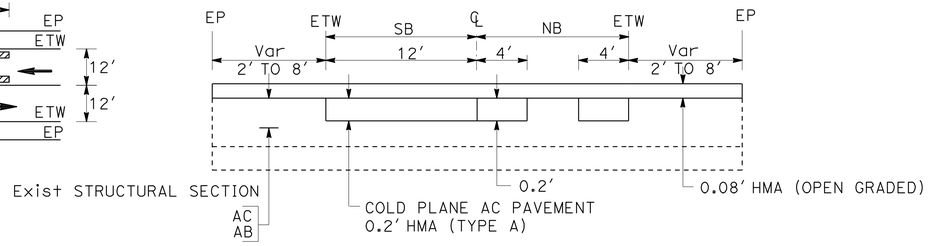
LEGEND:

COLD PLANE AC Pvmt, AND HMA (TYPE A)

DIRECTIONAL ARROW

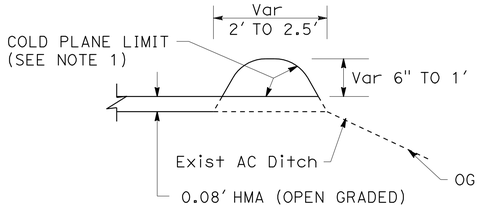


PLAN

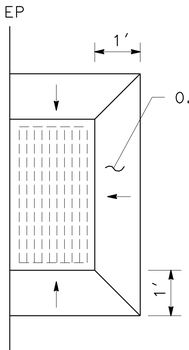


SECTION A-A

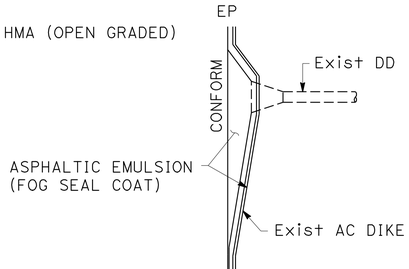
ROADWAY REPAIR



COLD PLANE AC BERM

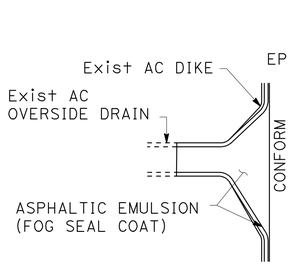


DRAINAGE INLET

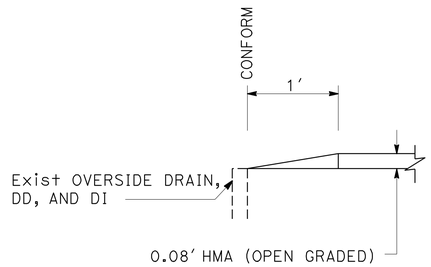


DOWN DRAIN

PLAN

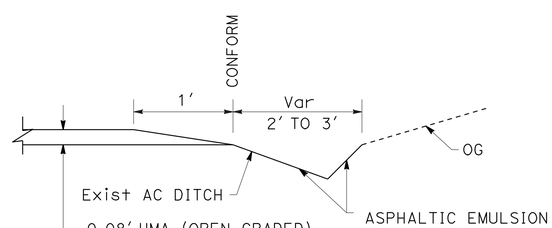


OVERSIDE DRAIN

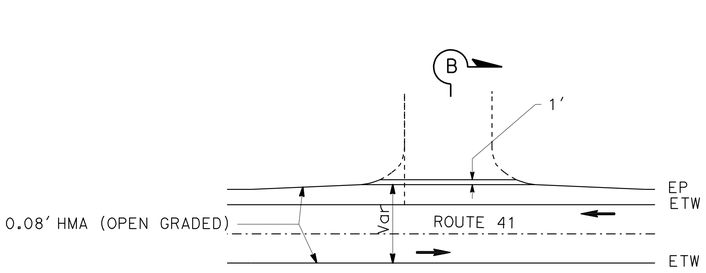


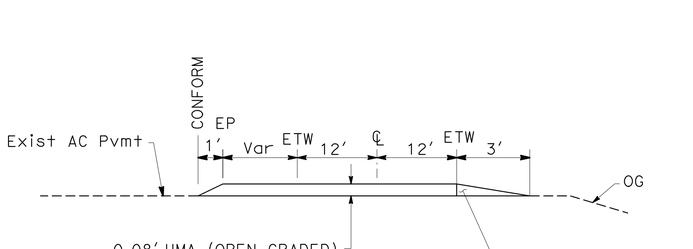
PROFILE

DRAINAGE CONFORM



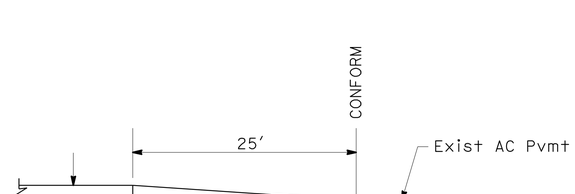
AC DITCHES CONFORM





SECTION B-B

TYPICAL INTERSECTION AND PRIVATE DRIVEWAY CONFORMS



LONGITUDINAL AC CONFORM TAPER

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

REVISED BY	DATE REVISED
ARMAN ASEFVAZIRI	10/15/09
KELLY McCLAIN	

CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR: KELLY McCLAIN

LAST REVISION | DATE PLOTTED => 04-FEB-2010
12-09-09 | TIME PLOTTED => 13:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SLO	41	43.9/49.6	4	9

Arman Asefvaziri 12-09-09
REGISTERED CIVIL ENGINEER DATE

2-1-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Arman Asefvaziri — No. 52047 — Exp.12/31/10 — CIVIL — STATE OF CALIFORNIA

NOTES:

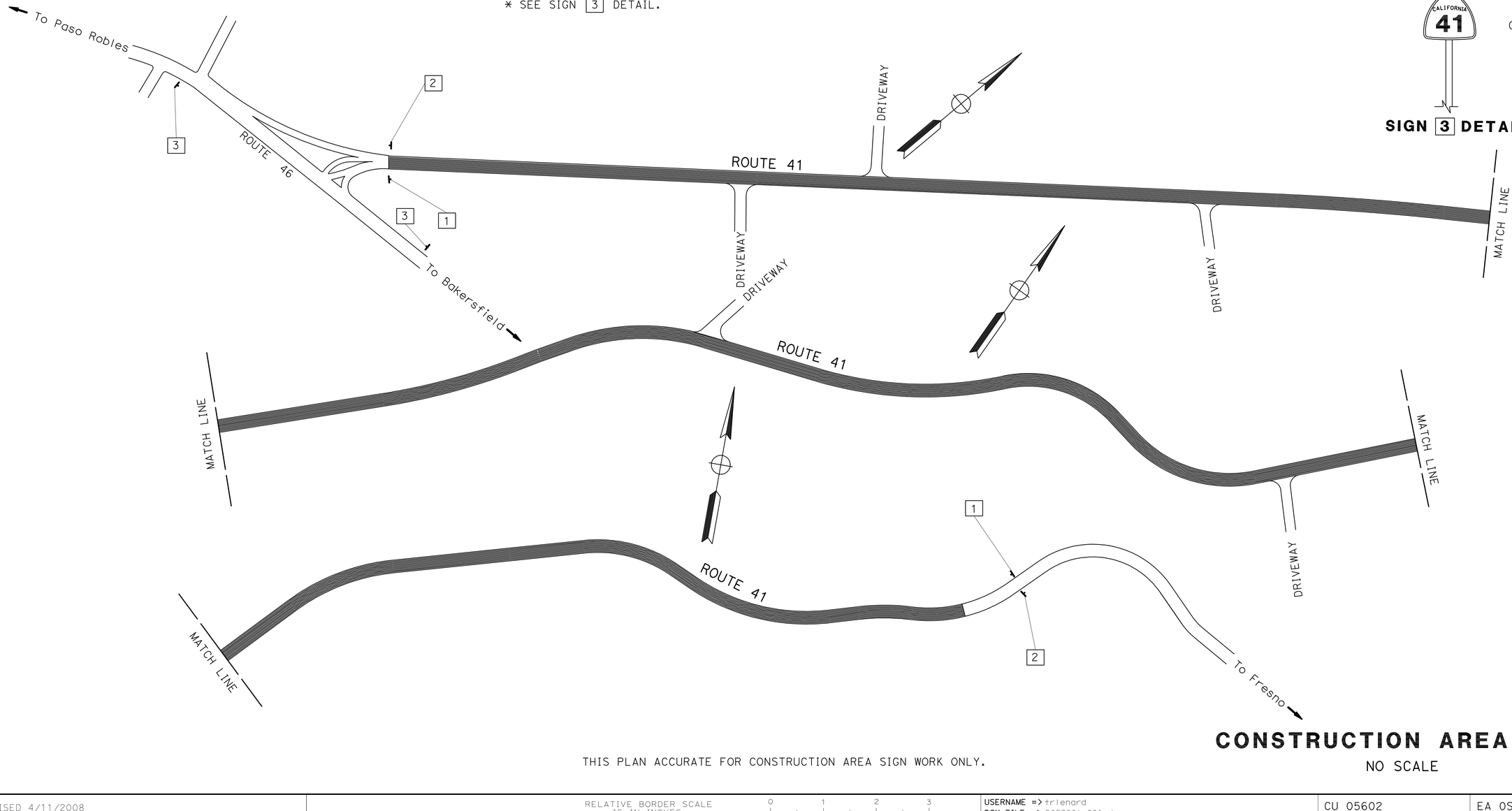
1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NUMBER	SIGN CODE	PANEL SIZE (in)	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
1	G20-1	36 x 18	ROAD WORK AHEAD NEXT ___ MILE	1 - 4" x 4"	2
2	G20-2	36 x 18	END ROAD WORK	1 - 4" x 4"	2
*	W20-1	36 X 36	ROAD WORK AHEAD	1 - 4" X 4"	2
3	W1-6	36 X 18	(ONE DIRECTION LARGE ARROW)		
	G28-2(CA)	24 X 25	CALIFORNIA 41 (STATE ROUTE MARKER)		

* SEE SIGN 3 DETAIL.

SIGN 3 DETAIL



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY McCLAIN
CALCULATED-DESIGNED BY: ARMAN ASEFVAZIRI
CHECKED BY: KELLY McCLAIN
REVISED BY: DATE REVISED: 10/15/09

LAST REVISION: DATE PLOTTED => 04-FEB-2010
TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trlenard | DGN FILE => 50S2001a001.dgn | CU 05602 | EA 0S2001

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SLO	41	43.9/49.6	5	9

REGISTERED CIVIL ENGINEER — 12-09-09 DATE

2-1-10
PLANS APPROVAL DATE

Arman Asefvaziri, No. 52047, Exp. 12/31/10, CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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.

ROADWORK SUMMARY

LIMIT	HMA (OPEN GRADED)	HMA (TYPE A)		ASPHALTIC EMULSION (FOG SEAL COAT)	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)
		AC DIKE	Rdwy REPAIR			
PM	TON	TON	TON	TON	TON	TON
43.9 TO 49.6	5200	10		12	35	500
Rdwy REPAIR			860		15	
TOTAL	5200	870		12	50	500

REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE

LIMIT	4" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)		4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	
	DETAIL						
	16	19	22	6	19	2	16
PM	LF						
43.9/49.6	2112	3168	62,100	340	792	2279	616
SUB TOTAL	67,373			1132		2895	
TOTAL	71,400						

THERMOPLASTIC TRAFFIC STRIPE

LIMIT	4" THERMOPLASTIC TRAFFIC STRIPE			4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)			PAVEMENT MARKER (RETROREFLECTIVE)		
	DETAIL								
	19	22	27B	6	12	19	TYPE		
PM	LF						D	G	H
43.9/49.6	5280	62,100	60,000	9200	5400	5280	EA		
SUB TOTAL	127,380			19,880			961	114	225
TOTAL	127,380			19,880			1300		

THERMOPLASTIC PAVEMENT MARKING

LIMIT	TYPE VI ARROW	
PM	EA (N)	SQFT
43.9/49.6 SB	3	126
TOTAL	126	

REMOVE THERMOPLASTIC PAVEMENT MARKING

LIMIT	TYPE VI ARROW	
PM	EA (N)	SQFT
43.9/49.6 SB	3	126
TOTAL	126	

REMOVE PAINTED TRAFFIC STRIPE

LIMIT	4" THERMOPLASTIC TRAFFIC STRIPE	
	DETAIL	
	12	27B
PM	LF	
43.9/49.6	1350	60,000
TOTAL	61,350	

HMA DIKE AND COLD PLANE AC BERM

	LIMIT	PLACE HMA DIKE (TYPE E)	COLD PLANE AC BERM
	PM	LF	SQYD
NORTHBOUND	45.92 TO 46.08	850	140
	46.71 TO 46.91	1050	175
	47.71 TO 47.51	530	90
	48.17 TO 48.34	900	150
	48.66 TO 48.78	635	110
	48.89 TO 48.94	265	45
	49.00 TO 49.07	370	65
SOUTHBOUND	45.96 TO 46.05	475	80
	46.42 TO 46.45	160	30
	46.52 TO 46.61	475	80
	47.03 TO 47.07	200	35
	47.09 TO 47.12	160	30
	47.21 TO 47.25	200	35
	48.16 TO 48.34	950	160
	48.64 TO 48.72	420	70
	48.87 TO 48.90	160	25
	TOTAL	7800	1320

METAL BEAM GUARD RAILING

LIMIT	RECONSTRUCT MBGR	
	NORTHBOUND	SOUTHBOUND
PM	LF	
47.0	375	
48.0		675
49.0	300	
49.5	175	350
SUB TOTAL	850	1025
TOTAL	1875	

COLD PLANE AC PAVEMENT

LIMITS	NORTHBOUND				SOUTHBOUND			
	4' WIDE		12' WIDE		4' WIDE		12' WIDE	
	No. OF Locs	AREA	No. OF Locs	AREA	No. OF Locs	AREA	No. OF Locs	AREA
PM	EA (N)	SQYD	EA (N)	SQYD	EA (N)	SQYD	EA (N)	SQYD
46.0 TO 46.5	3	602	1	378	1	47		
46.5 TO 47.0	2	152			1	61		
47.0 TO 47.5	1	61						
47.5 TO 48.0	1	65						
48.5 TO 48.5	3	350						
48.5 TO 49.0	3	712					1	1540
49.0 TO 49.5			1	1400			1	1246
SUB TOTAL		1790		1778		107		2786
TOTAL	6461							

(N) FOR INFORMATION ONLY, NOT A PAY ITEM

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: KELLY McCLAIN

CALCULATED-DESIGNED BY: ARMAN ASEFVAZIRI

CHECKED BY: KELLY McCLAIN

REVISED BY: — DATE REVISED: 10/15/09

LAST REVISION — DATE PLOTTED => 04-FEB-2010 — TIME PLOTTED => 13:37

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trlenard
DGN FILE => 50S200pa001.dgn

CU 05602

EA 0S2001

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	41	43.9/46.9	6	9

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

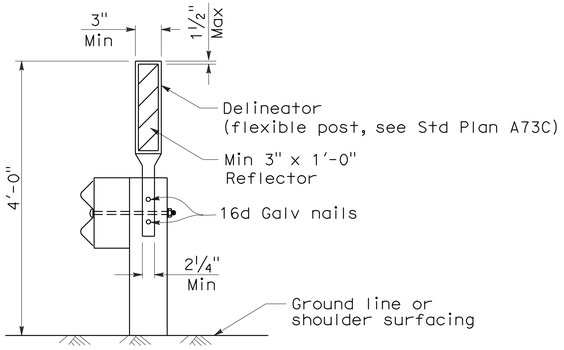
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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.

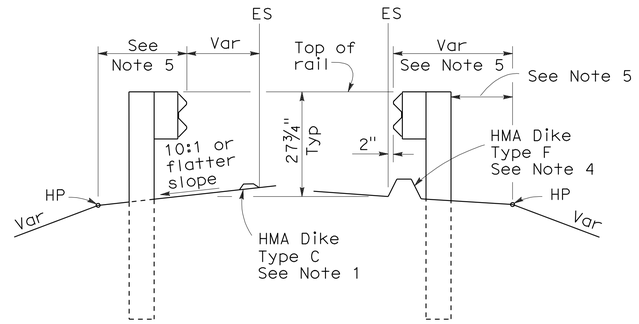
To accompany plans dated 2-1-10

NOTES:

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



GUARD RAILING DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL BEAM GUARD RAILING TYPICAL RAILING DELINEATION AND DIKE POSITIONING DETAILS

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

2006 REVISED STANDARD PLAN RSP A77C4

12-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	41	43.9/46.9	7	9

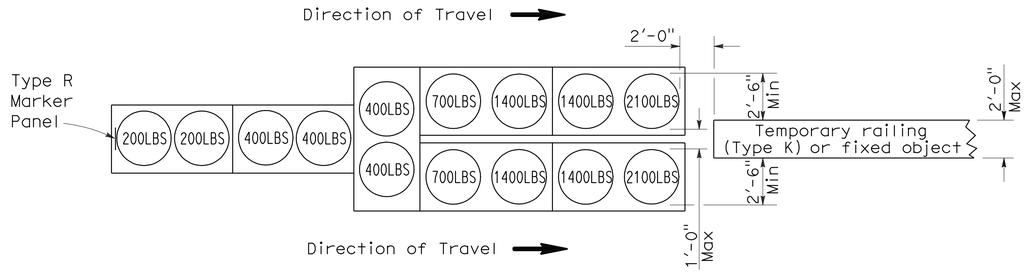
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

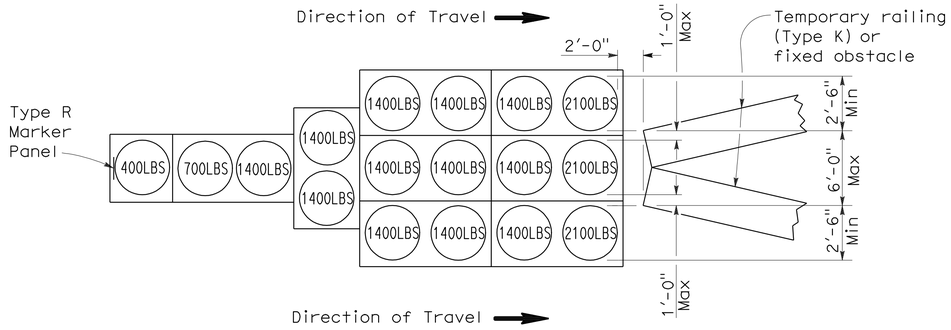
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-1-10



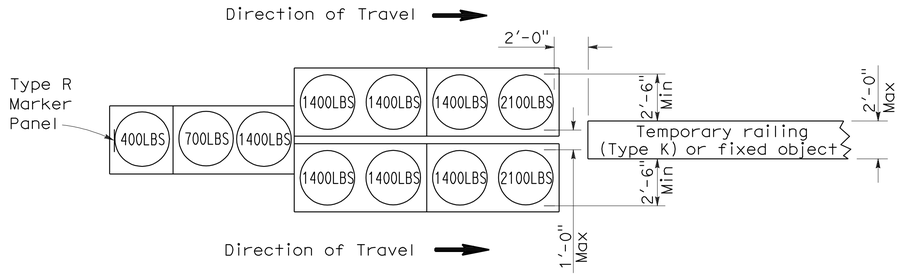
ARRAY 'TU14'

Approach speed 45 mph or more



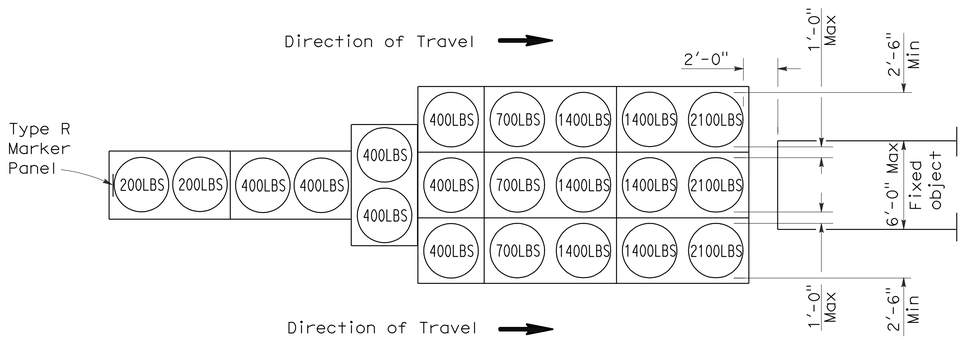
ARRAY 'TU17'

Approach speed less than 45 mph



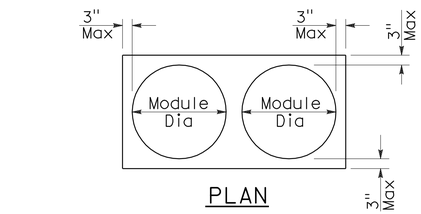
ARRAY 'TU11'

Approach speed less than 45 mph

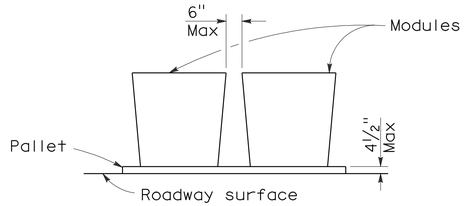


ARRAY 'TU21'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	41	43.9/46.9	8	9

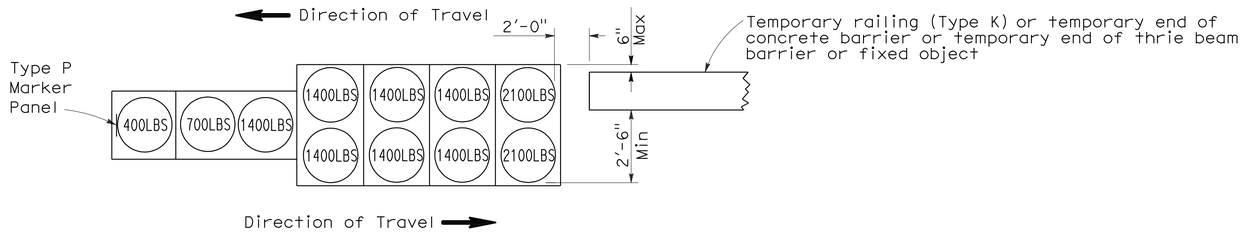
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

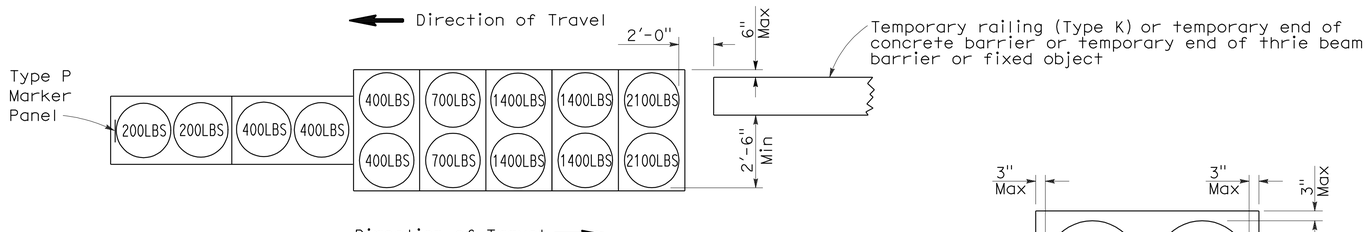
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-1-10



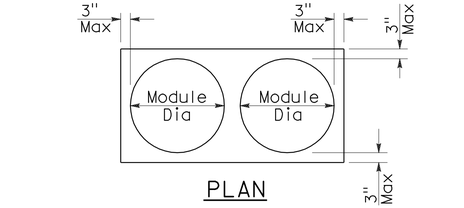
ARRAY 'TB11'

Approach speed less than 45 mph

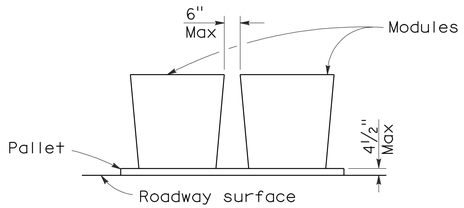


ARRAY 'TB14'

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SLO	41	43.9/46.9	9	9

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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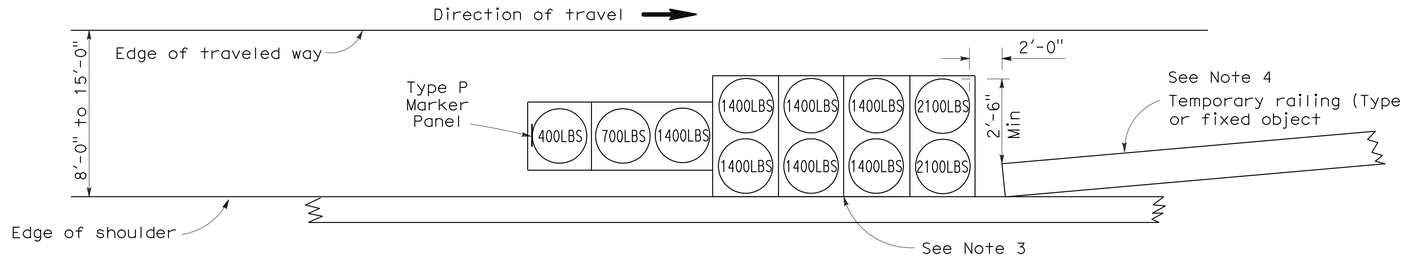
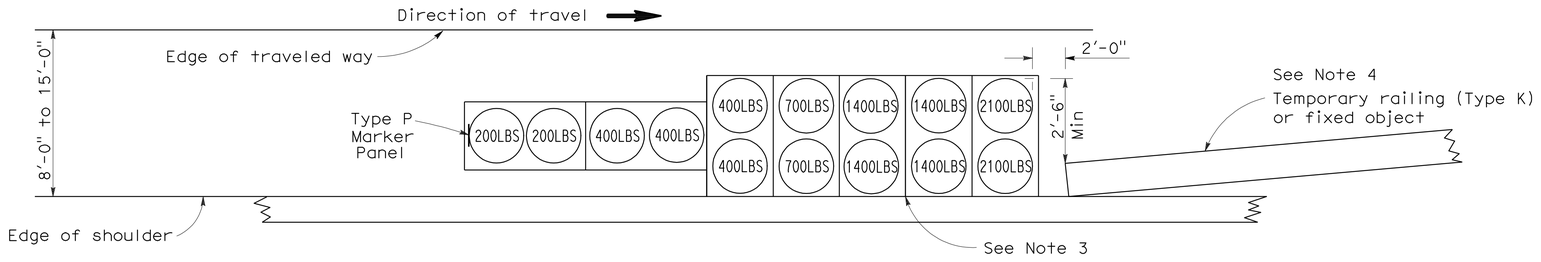
To accompany plans dated 2-1-10



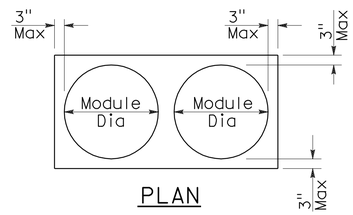
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

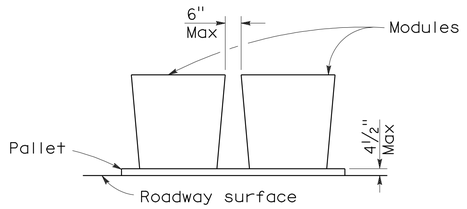


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08