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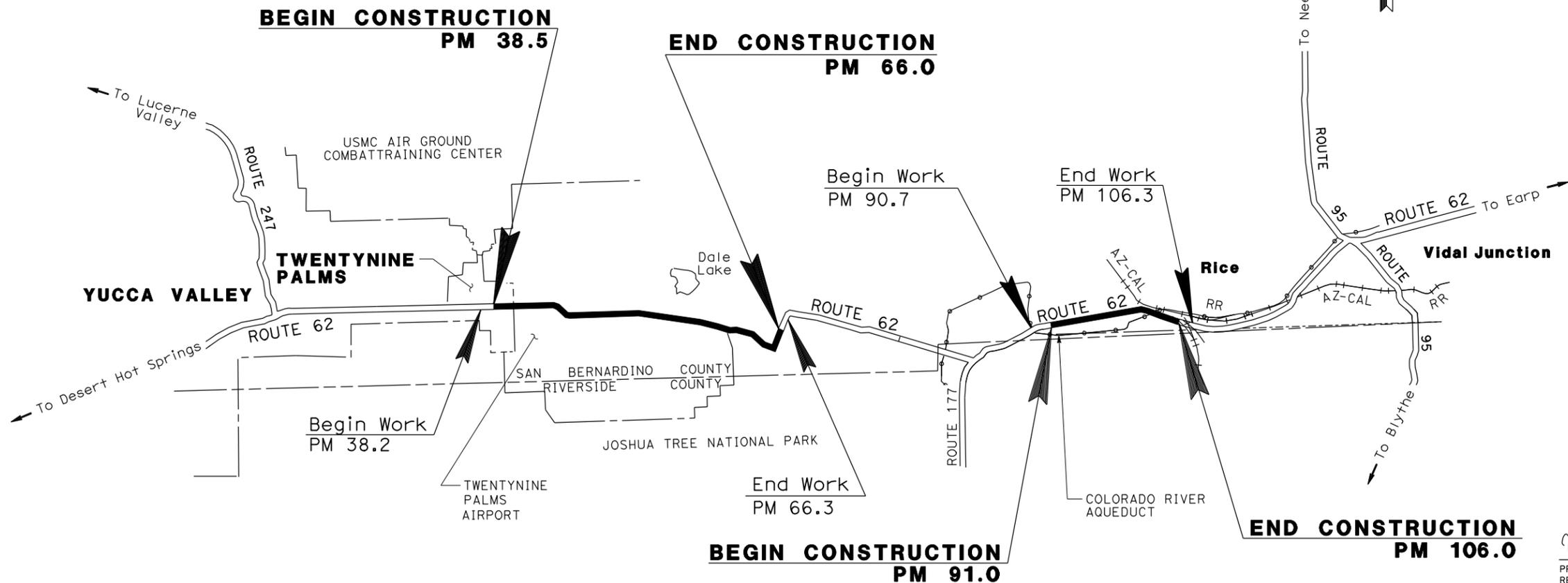
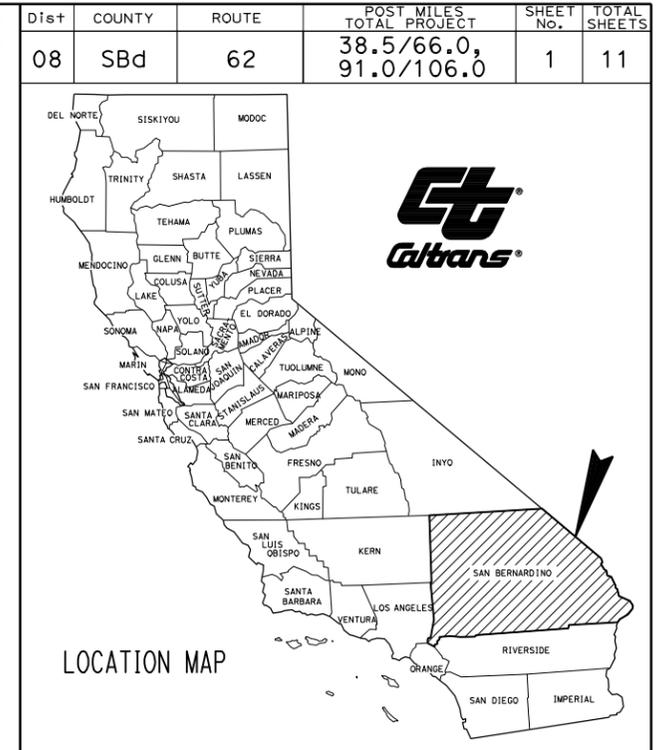
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

ACSTP-P062(028)E

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN SAN BERNARDINO COUNTY  
NEAR TWENTYNINE PALMS AND RICE  
FROM GOPHER GROVE LANE TO 11 MILES EAST OF IRONAGE ROAD  
AND FROM 0.8 MILE WEST OF COLORADO RIVER AQUEDUCT  
TO 3.8 MILES EAST OF CADIZ ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



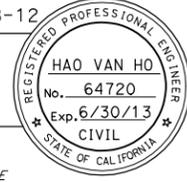
PROJECT MANAGER  
CATALINO PINING

DESIGN ENGINEER  
HAO VAN HO

*Vanitas* 12-28-12  
PROJECT ENGINEER  
REGISTERED CIVIL ENGINEER

December 31, 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.



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

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

REVISOR BY  
 DATE

HAO VAN HO  
 MICHAEL RISTIC

CALCULATED-DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 MICHAEL RISTIC

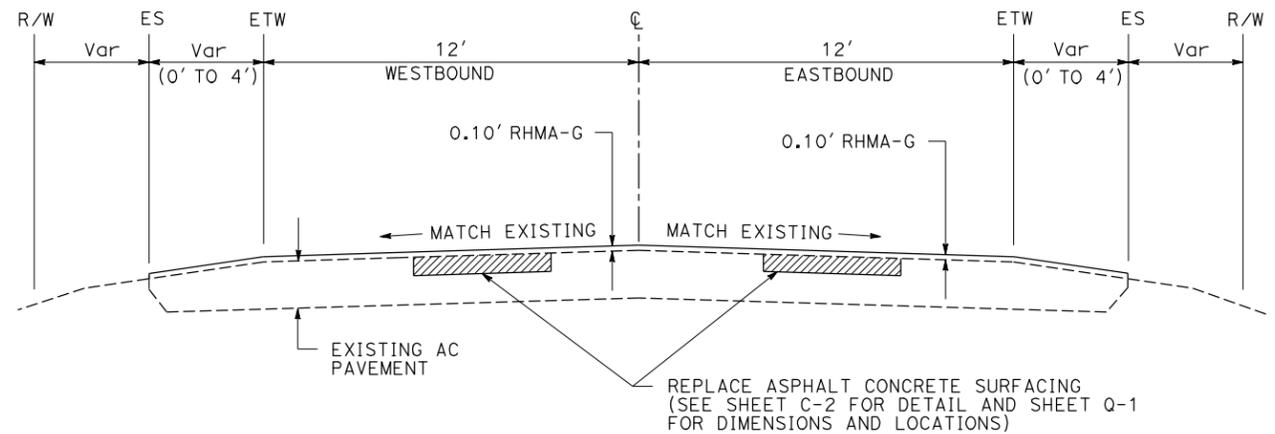
- NOTES:**
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO THE TOLERANCE SPECIFIED IN THE STANDARD SPECIFICATIONS.
  2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
  3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
  4. EXACT LOCATIONS FOR REPLACE AC SURFACING TO BE DETERMINED BY ENGINEER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	62	38.5/66.0, 91.0/106.0	2	11

*Van Ho* 12-28-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-31-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**HAO VAN HO**  
 No. 64720  
 Exp 6/30/13  
 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.



**ROUTE 62**  
 PM 38.5 TO 66.0  
 PM 91.0 TO 106.0

**PAVEMENT AND SHOULDER WIDTHS AT WORK LOCATIONS**

PM	EASTBOUND			WESTBOUND		
	No. OF LANES	LANE WIDTH	OUTSIDE SHOULDER	No. OF LANES	LANE WIDTH	OUTSIDE SHOULDER
38.5/48.5	1	12'	4'	1	12'	4'
48.5/54.0	1	12'	2'	1	12'	2'
54.0/R63.0	1	12'	0'	1	12'	0'
R63.0/63.7	1	12'	2'	1	12'	2'
63.7/66.0	1	12'	0'	1	12'	0'
91.0/106.0	1	12'	2'	1	12'	2'

**TYPICAL CROSS SECTIONS**  
 NO SCALE  
**X-1**

DATE PLOTTED => 28-DEC-2012  
 TIME PLOTTED => 14:03  
 LAST REVISION  
 06-26-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

REVISOR  
 REVISION  
 DATE

HAO VAN HO  
 MICHAEL RISTIC

CALCULATED-DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 MICHAEL RISTIC

**NOTES:**  
 1. EXACT LIMITS TO BE DETERMINED BY THE ENGINEER.  
 2. ALL WORK WITHIN STATE RIGHT OF WAY.

**LEGEND:**  
 PAVING LIMITS OF WORK

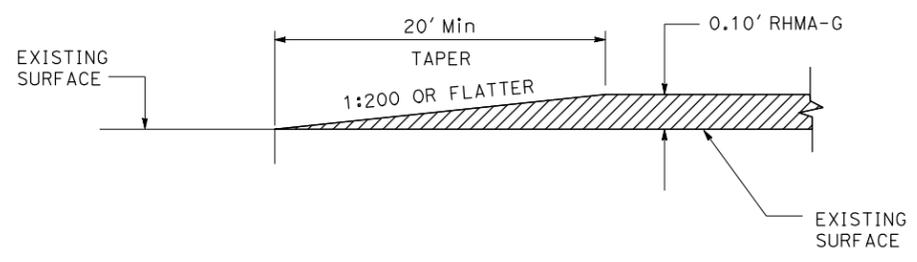
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	62	38.5/66.0, 91.0/106.0	3	11

*Van Ho* 12-28-12  
 REGISTERED CIVIL ENGINEER DATE

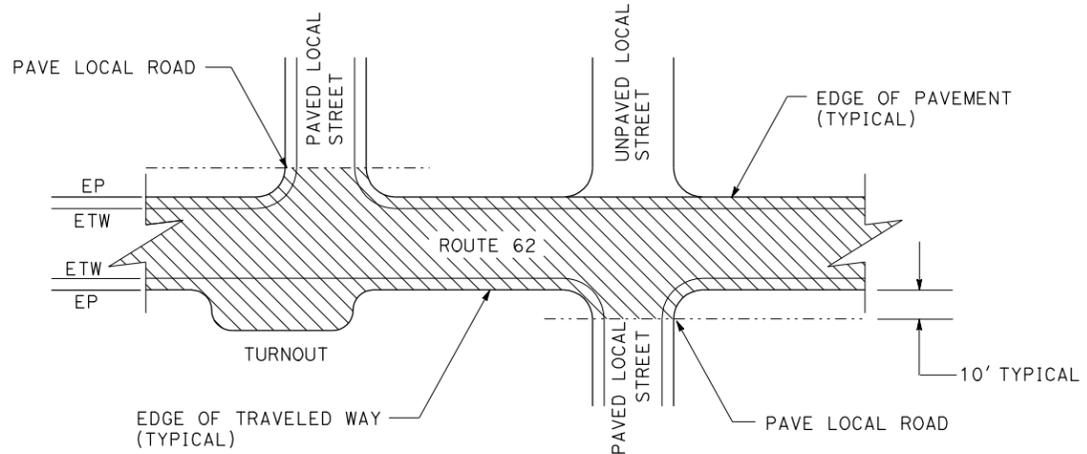
12-31-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 HAO VAN HO  
 No. 64720  
 Exp. 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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**PAVEMENT CONFORM**  
 AT BEGIN AND END OF OVERLAY



**PAVING LIMITS OF WORK**  
 LOCAL STREETS

**CONSTRUCTION DETAILS**  
 NO SCALE  
**C-1**

DATE PLOTTED => 28-DEC-2012 TIME PLOTTED => 14:03

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 CALCULATED-DESIGNED BY: MICHAEL RISTIC  
 CHECKED BY: MICHAEL RISTIC  
 HAO VAN HO  
 MICHAEL RISTIC  
 REVISED BY: HAO VAN HO  
 DATE REVISION: MICHAEL RISTIC

**NOTES:**

- ALL WORK ARE WITHIN STATE RIGHT OF WAY.
- EXACT LIMITS AND LOCATIONS OF REPLACE ASPHALT CONCRETE SURFACING SHALL BE DETERMINED BY THE ENGINEER.

**LEGEND:**

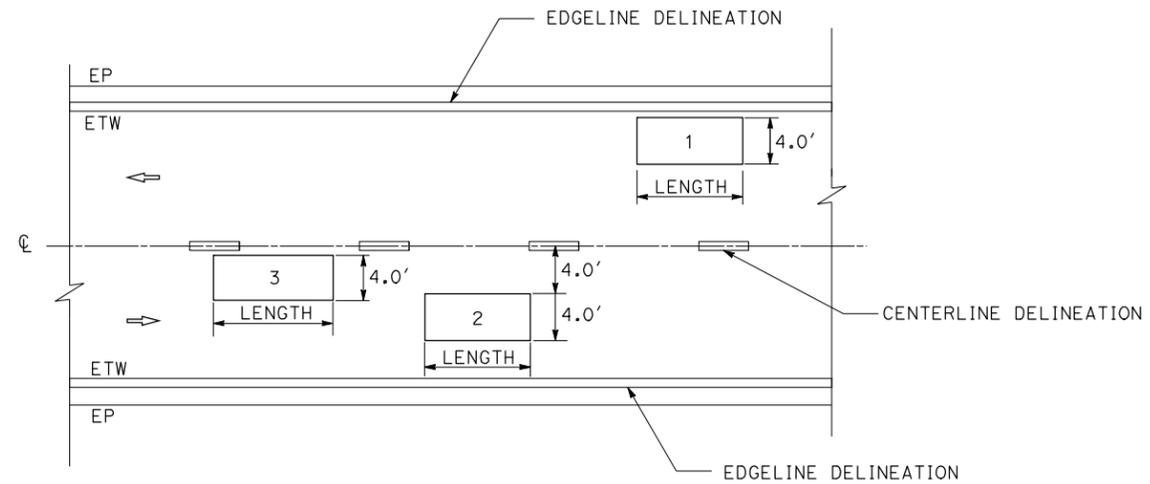
-  RHMA-G
-  REPLACE ASPHALT CONCRETE SURFACING (HMA-A)
-  DIRECTION OF TRAVEL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	62	38.5/66.0, 91.0/106.0	4	11

*Van Ho* 12-28-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-31-12  
 PLANS APPROVAL DATE

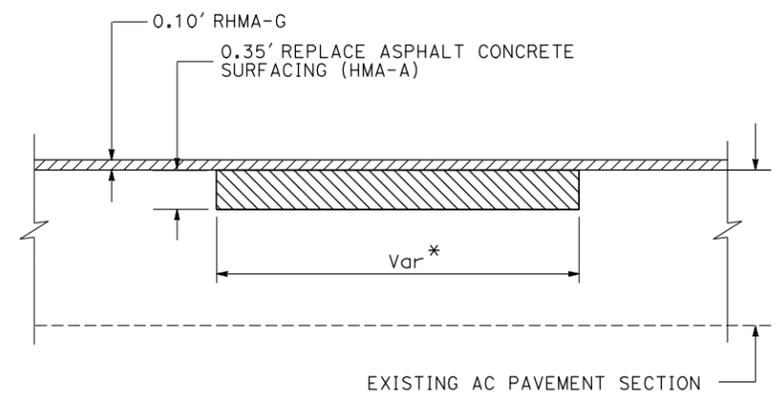
REGISTERED PROFESSIONAL ENGINEER  
 HAO VAN HO  
 No. 64720  
 Exp. 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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.



**TYPICAL REPLACE ASPHALT CONCRETE SURFACING LOCATIONS**

- CASE 1: RIGHT WHEEL TRACK (R)
- CASE 2: CENTER OF A TRAVELED WAY LANE (C)
- CASE 3: LEFT WHEEL TRACK (L)



**REPLACE ASPHALT CONCRETE SURFACING (TYP)**

\* FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS AND DIMENSIONS SEE SHEET Q-1

**CONSTRUCTION DETAILS**  
 NO SCALE  
**C-2**

DATE PLOTTED => 28-DEC-2012 TIME PLOTTED => 14:03

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Caltrans** TRAFFIC DESIGN 'B'  
 FUNCTIONAL SUPERVISOR LARRY SARTORI  
 CALCULATED/DESIGNED BY LARRY SARTORI  
 CHECKED BY LARRY SARTORI  
 SIDHARTHA CHOWDHURY  
 LARRY SARTORI  
 REVISED BY DATE REVISION  
 SIDHARTHA CHOWDHURY  
 LARRY SARTORI

**NOTES:**

- LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- REFER TO STANDARD PLAN T13 AND T17 FOR TRAFFIC CONTROL REQUIREMENTS.
- MESSAGE IN PORTABLE CHANGEABLE MESSAGE SIGNS TO BE AS DETERMINED BY THE ENGINEER.

**LEGEND:**

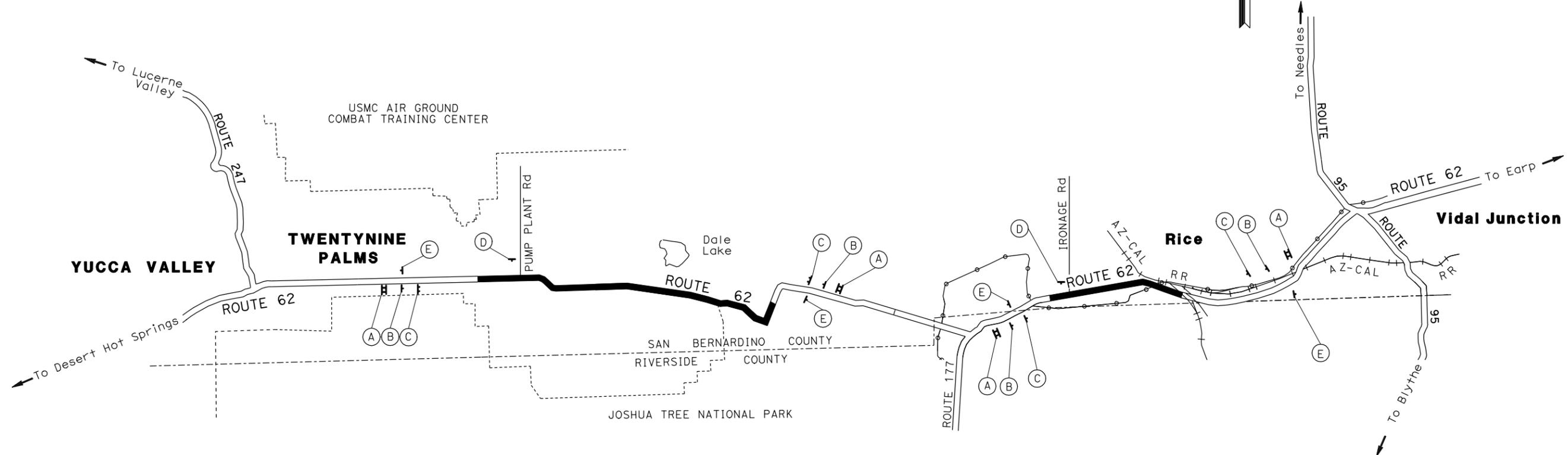
- 1 POST SIGN
- 2 POST SIGN
- H PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- WORK AREA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	62	38.5/66.0, 91.0/106.0	5	11

12-28-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-31-12  
 PLANS APPROVAL DATE

SIDHARTHA CHOWDHURY  
 No. 55418  
 Exp. 12/31/14  
 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 No.	SIGN CODE		PANEL SIZE	No. OF POSTS AND SIZE	SIGN MESSAGE	No. OF SIGNS (N)	COMMENT
	MUTCD	CALIFORNIA					
B	G20-1		60" x 36"	2 - 4" x 4"	ROAD WORK NEXT 28 MILES	2	(BETWEEN PM 38.5/66.0)
			60" x 36"	2 - 4" x 4"	ROAD WORK NEXT 15 MILES	2	(BETWEEN PM 91.0/106.0)
C		C40A(CA)	36" x 36"	1 - 4" x 6"	TRAFFIC FINES DOUBLED IN WORK ZONES	4	
D	W20-1		36" x 36"	1 - 4" x 6"	ROAD WORK AHEAD	4	
E	G20-2		36" x 18"	1 - 4" x 4"	END ROAD WORK	2	
TOTAL						14	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

**PORTABLE CHANGEABLE MESSAGE SIGNS**

SIGN SYMBOL	SIGN CODE	EA
A	PCMS	4

**CONSTRUCTION AREA SIGNS**  
 NO SCALE  
**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

DATE PLOTTED => 28-DEC-2012 TIME PLOTTED => 14:03

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**St. Caltrans** TRAFFIC DESIGN 'B'  
 FUNCTIONAL SUPERVISOR LARRY SARTORI  
 CALCULATED-DESIGNED BY CHECKED BY  
 SIDHARTHA CHOWDHURY LARRY SARTORI  
 REVISED BY DATE REVISION  
 SIDHARTHA CHOWDHURY LARRY SARTORI

**NOTES:**

- PAVEMENT MARKERS SHALL BE PLACED BEFORE SPRAYABLE THERMOPLASTIC STRIPE IS APPLIED.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	62	38.5/66.0, 91.0/106.0	6	11

12-28-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-31-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 SIDHARTHA CHOWDHURY  
 No. 55418  
 Exp. 12/31/14  
 CIVIL  
 STATE OF CALIFORNIA

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**PAVEMENT DELINEATION QUANTITIES**

LOCATION	FROM POST MILE / TO POST MILE	DETAIL OR PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)			PAVEMENT MARKER RETRO-REFLECTIVE		REMOVE PAVEMENT MARKER		THERMOPLASTIC PAVEMENT MARKING
			4" WHITE	4" YELLOW	8" WHITE	TYPE D	TYPE H	TYPE D	TYPE H	12" WHITE
			FT	FT	FT	EA	EA	EA	EA	SQFT
ROUTE 62	38.5/66.0 (FROM GOPHER GROVE LANE TO 11-MILE EAST OF IRONAGE Rd)	6		74052		1545		1545		
		16		37121		775	2325	775	2325	
		22		34027		2850		2850		
		27B	290400							
	91.0/106.0 (FROM 0.8-MILE WEST OF COLORADO RIVER AQUEDUCT TO 3.8-MILES EAST OF CADIZ Rd)	6		53760		1120		1120		
		16		13676		285	855	285	855	
		22		12038		1005		1005		
		27B	158400							
	38.5/66.0 91.0/106.0	AIRCRAFT * MARKER			400					
		LIMIT LINE								75
SUBTOTAL			448800	224674	400	7580	3180	7580	3180	75
TOTAL				673874			10760		10760	75

\* REPLACE IN-KIND

**PAVEMENT DELINEATION QUANTITIES PDQ-1**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE ENGINEERING  
 FUNCTIONAL SUPERVISOR: MICHAEL RISTIC  
 CALCULATED-DESIGNED BY: CHECKED BY:  
 HAO VAN HO: MICHAEL RISTIC  
 REVISED BY: DATE REVISED:  
 x  
x  
x  
x  
x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	62	38.5/66.0, 91.0/106.0	7	11

*Van Ho* 12-28-12  
 REGISTERED CIVIL ENGINEER DATE  
 12-31-12  
 PLANS APPROVAL DATE

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**PAVEMENT QUANTITIES**

ROUTE	PM	AREA	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT
		(SQYD) (N)	(TON)	(TON)
62	38.5/66.0	448683	30286	140
	91.0/106.0	246400	16632	77
TOTAL		695083	46918	217

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

**REPLACE ASPHALT CONCRETE SURFACING  
LOCATIONS AND QUANTITIES**

PM LIMIT		REPLACE ASPHALT CONCRETE SURFACING	
FROM	TO	EASTBOUND (CY)	WESTBOUND (CY)
38.5	42.0	70	70
42.0	46.0	275	275
46.0	50.0	138	138
50.0	54.0	172	137
54.0	58.0	69	69
58.0	62.0	137	103
62.0	66.0	206	241
91.0	95.0	200	160
95.0	99.0	160	240
99.0	103.0	240	160
103.0	106.0	120	120
SUBTOTAL		1787	1713
TOTAL		3500	

EXACT LOCATIONS AND DIMENSIONS TO BE DETERMINED BY THE ENGINEER

**SUMMARY OF QUANTITIES  
Q-1**

DATE PLOTTED => 28-DEC-2012  
 TIME PLOTTED => 14:03  
 LAST REVISION  
 06-26-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	62	38.5/66.0, 91.0/106.0	8	11

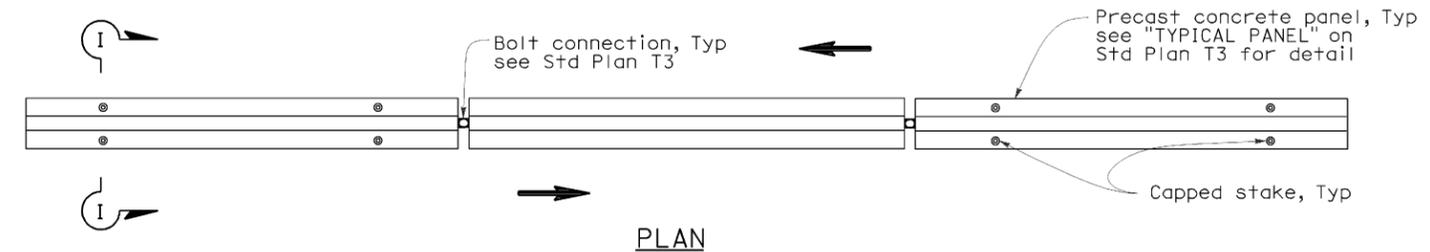
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

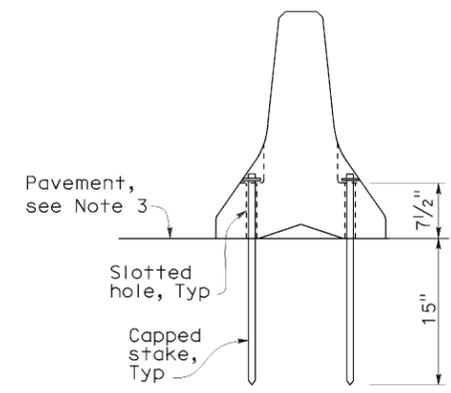
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REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 12-31-12

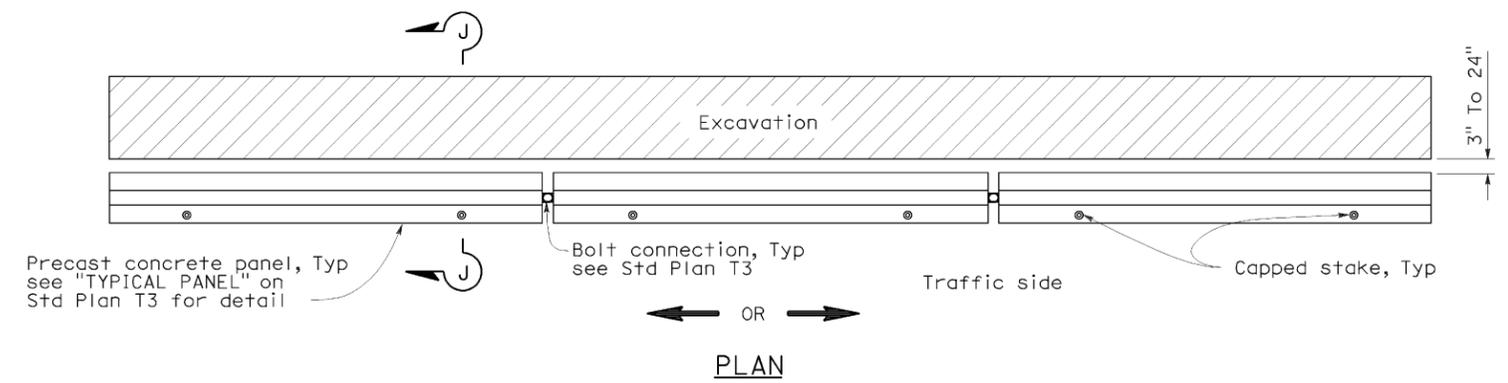


**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1

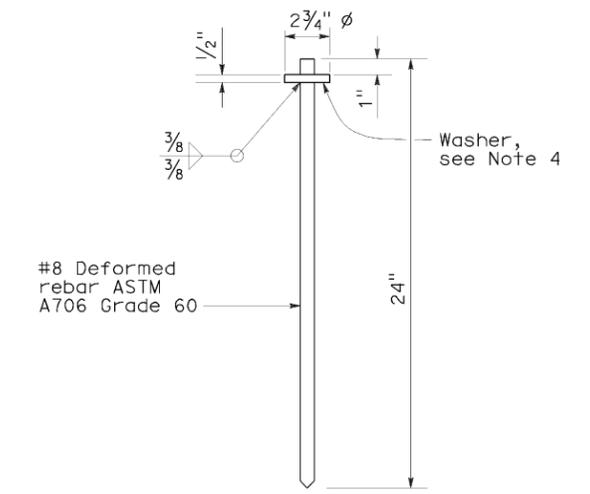
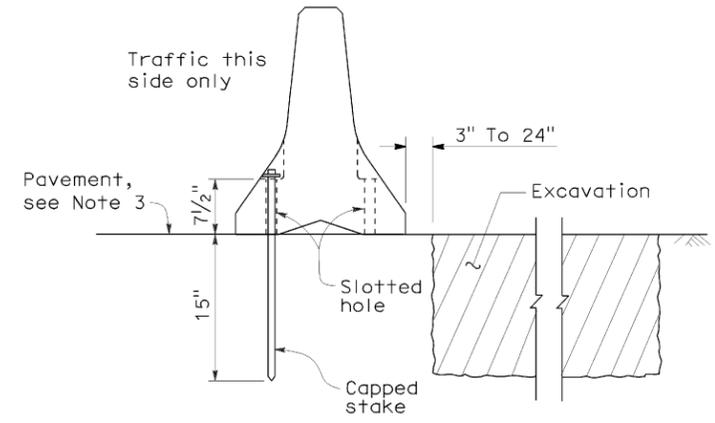


**NOTES:**

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 →.



**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.

**NEW STANDARD PLAN NSP T3A**

2006 NEW STANDARD PLAN NSP T3A

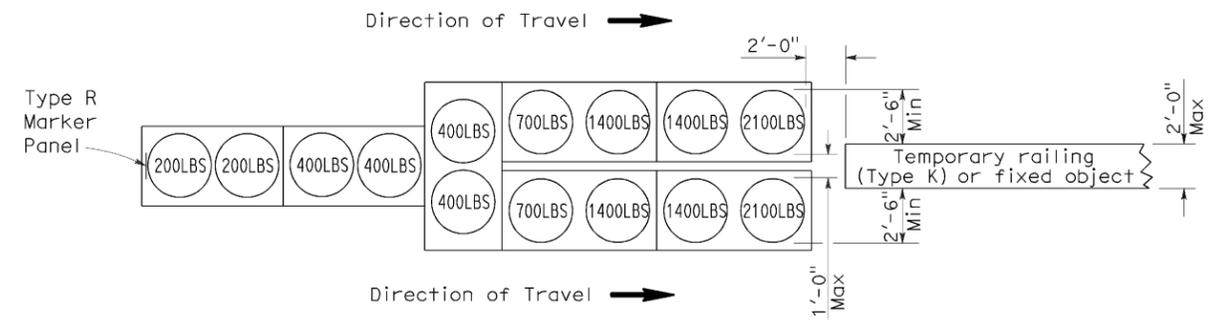
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	62	38.5/66.0, 91.0/106.0	9	11

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

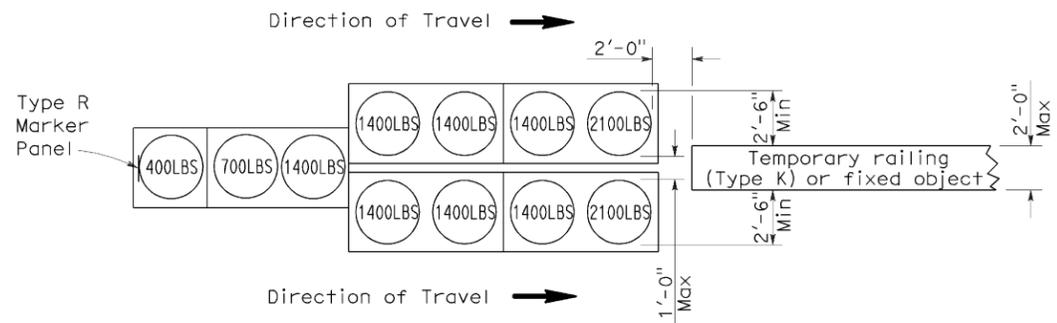
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To accompany plans dated 12-31-12



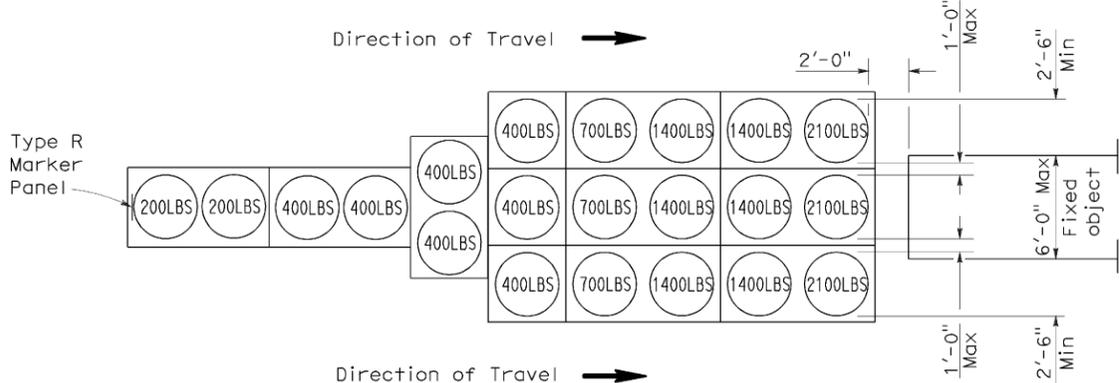
**ARRAY 'TU14'**

Approach speed 45 mph or more



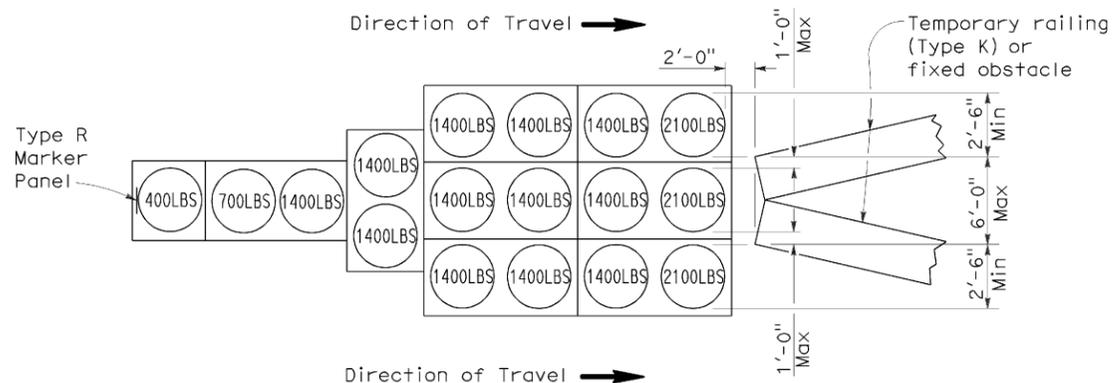
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more

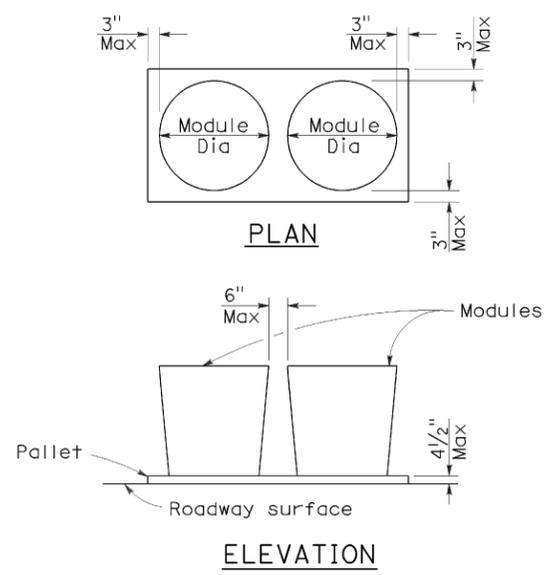


**ARRAY 'TU17'**

Approach speed less than 45 mph

**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.



**CRASH CUSHION PALLET DETAIL**

See Note 7

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

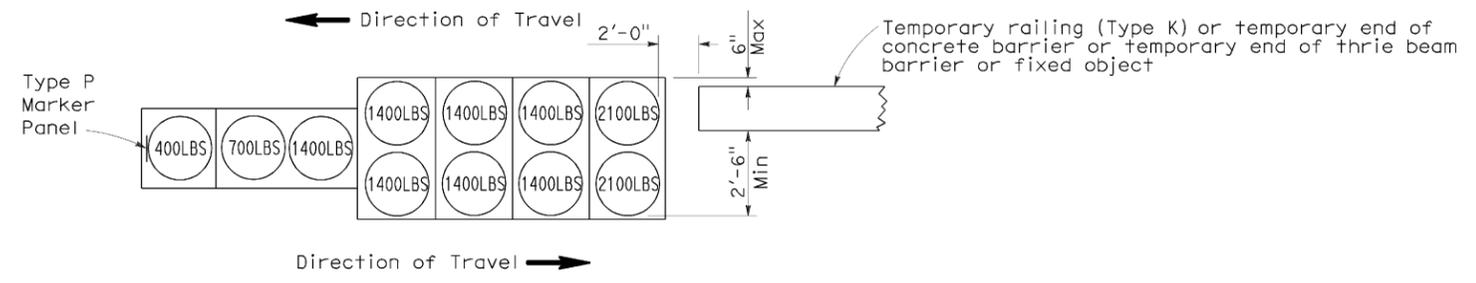
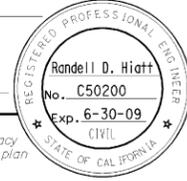
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	62	38.5/66.0, 91.0/106.0	10	11

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

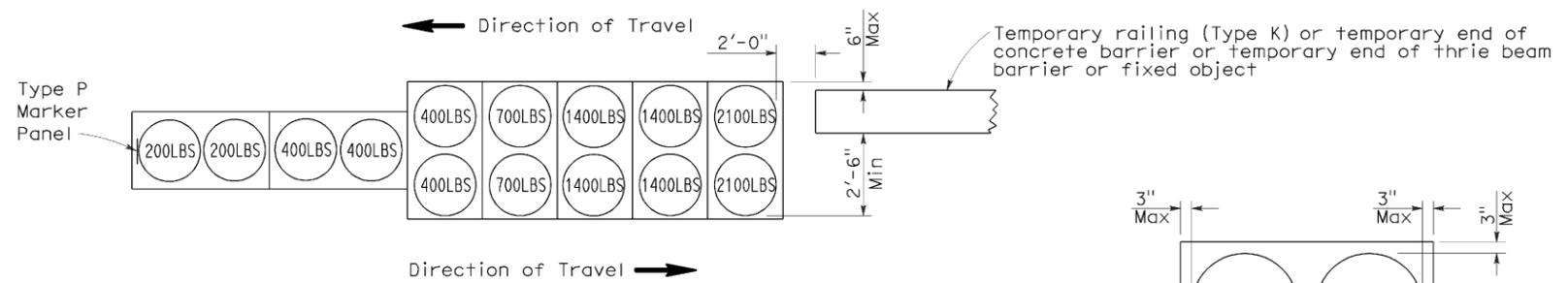
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To accompany plans dated 12-31-12



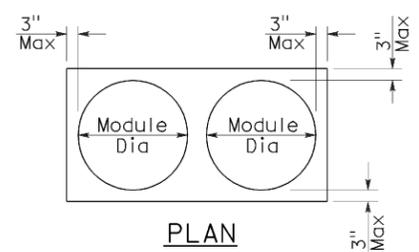
**ARRAY 'TB11'**

Approach speed less than 45 mph

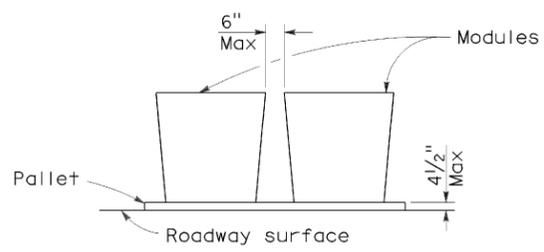


**ARRAY 'TB14'**

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

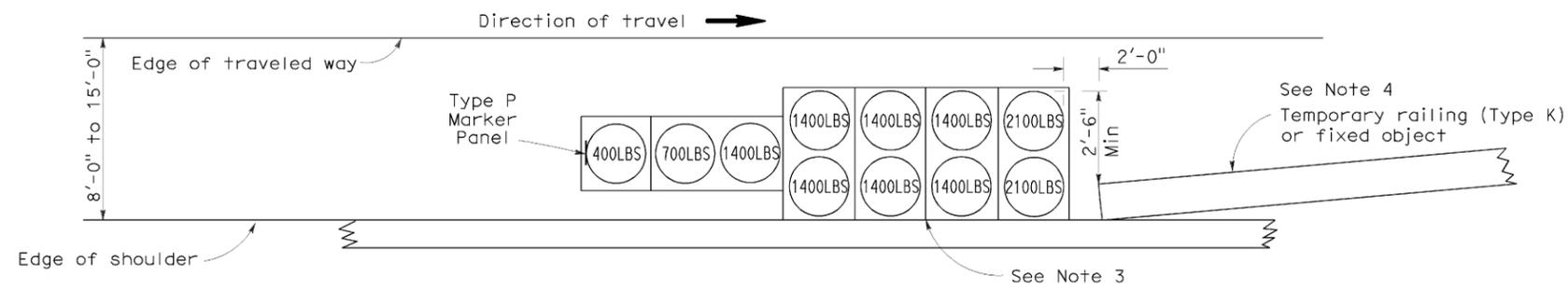
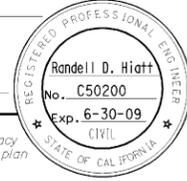
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	62	38.5/66.0, 91.0/106.0	11	11

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

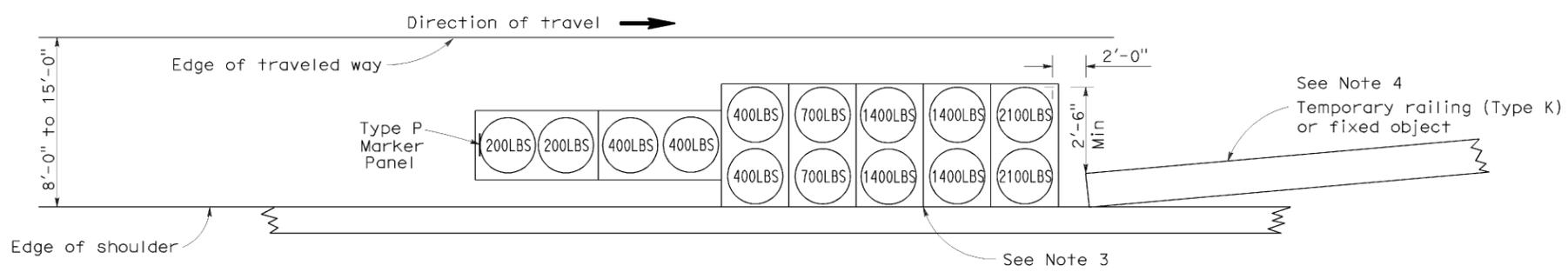
June 6, 2008  
PLANS APPROVAL DATE

*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.*

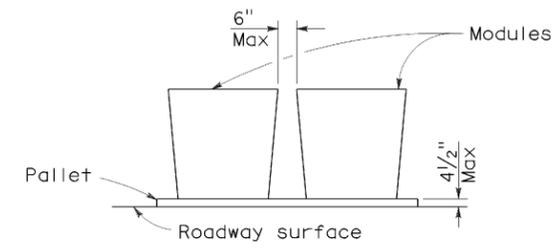
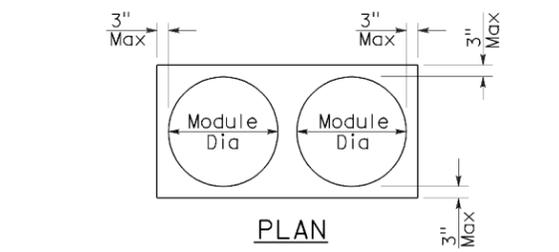
To accompany plans dated 12-31-12



**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:**

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