

INDEX OF PLANS

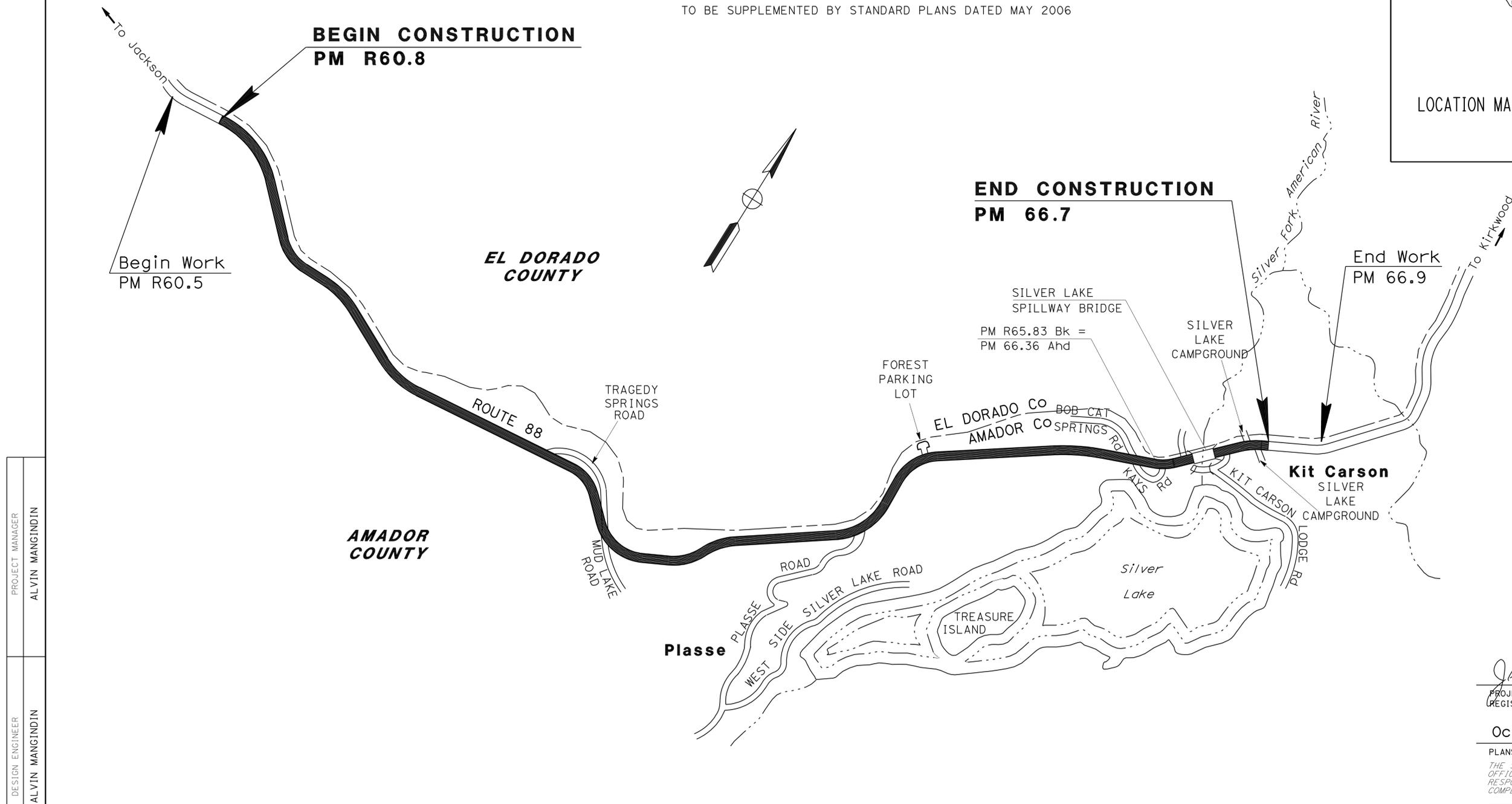
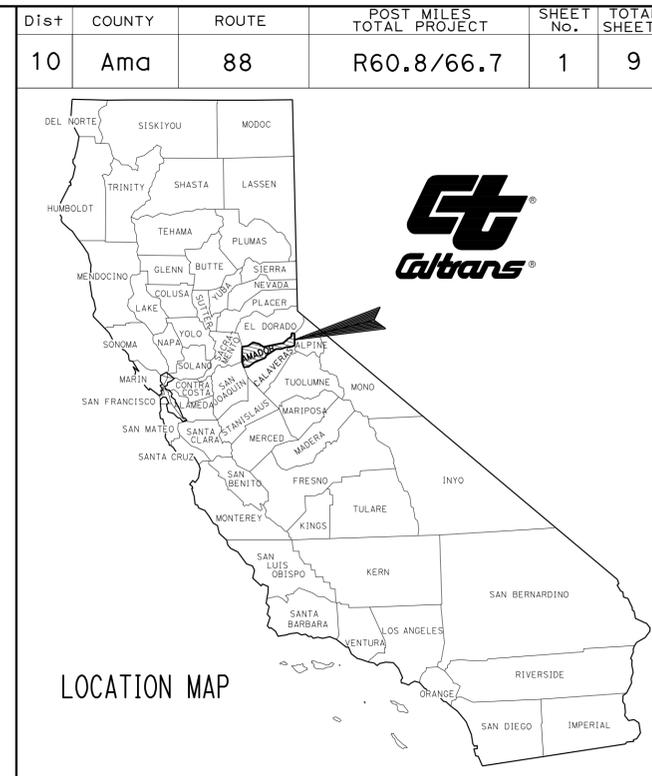
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	SUMMARY OF QUANTITIES
6-8	REVISED STANDARD PLANS
9	NEW STANDARD PLAN

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

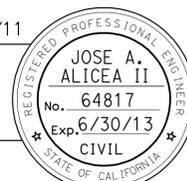
PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN AMADOR COUNTY  
AT AND NEAR PLASSE  
FROM 2.0 MILES WEST OF TRAGEDY SPRINGS ROAD  
TO 0.3 MILE EAST OF KIT CARSON LODGE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER	ALVIN MANGINDIN
DESIGN ENGINEER	ALVIN MANGINDIN

 9/19/11  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**October 10, 2011**  
 PLANS APPROVAL DATE



CONTRACT No.	<b>10-0V9904</b>
PROJECT ID	<b>1000020555</b>

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** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN  
 CALCULATED/DESIGNED BY: THOA HUYNH  
 CHECKED BY: JOSE ALICEA II  
 REVISED BY: JAA  
 DATE REVISED: 10/10/11

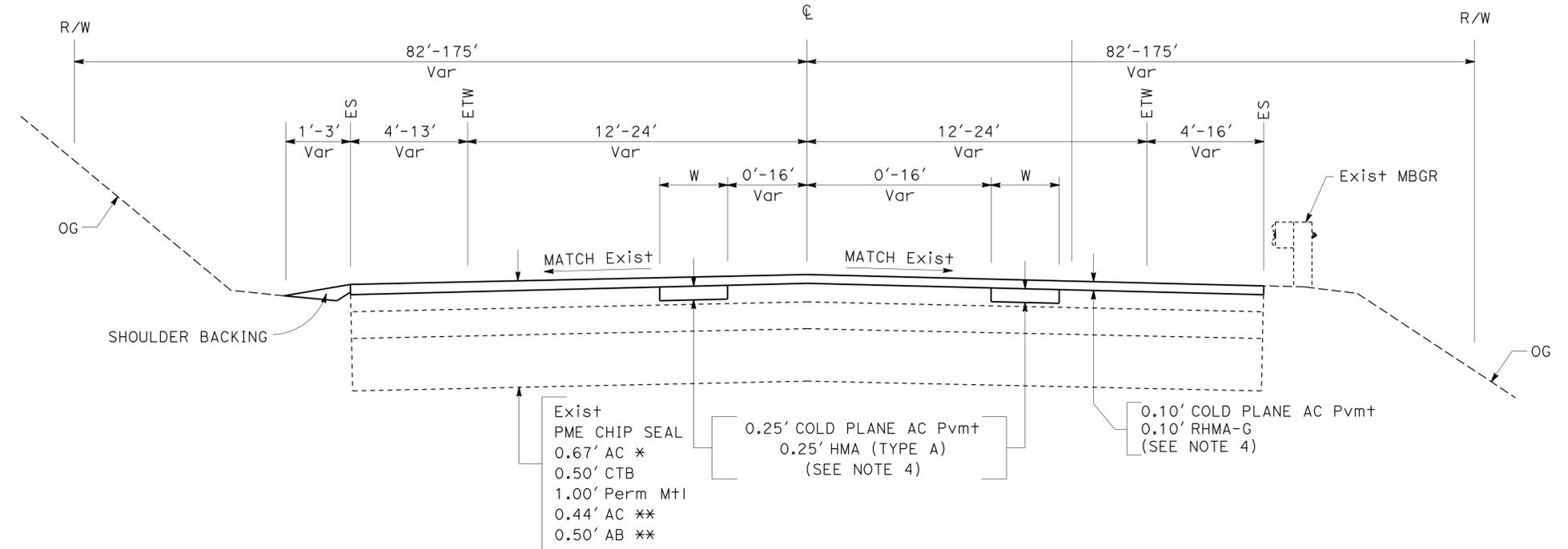
- NOTES:
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
  2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS
  4. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.
  5. SEE SUMMARY OF QUANTITIES FOR MBGR LOCATIONS.

ABBREVIATION

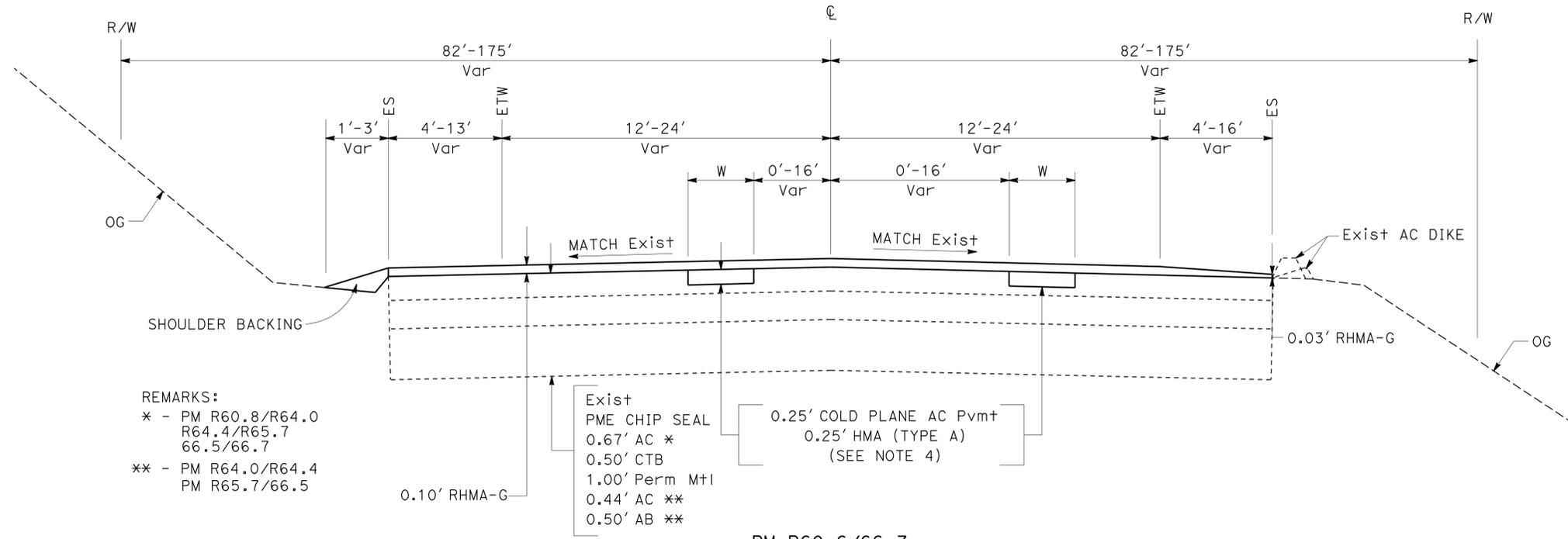
RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	2	9

REGISTERED ELECTRICAL ENGINEER DATE 9/9/11  
 JOSE A. ALICEA II  
 No. 64817  
 Exp. 6/30/13  
 CIVIL  
 PLANS APPROVAL DATE 10/10/11  
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.



**MBGR LOCATIONS**  
(SEE NOTE 5)



- REMARKS:
- \* - PM R60.8/R64.0  
R64.4/R65.7  
66.5/66.7
  - \*\* - PM R64.0/R64.4  
PM R65.7/66.5

PM R60.6/66.7  
**ROUTE 88**

**TYPICAL CROSS SECTIONS**

NO SCALE **X-1**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	3	9

REGISTERED CIVIL ENGINEER DATE 9/19/11  
 JOSE A. ALICEA II  
 No. 64817  
 Exp. 6/30/13  
 CIVIL  
 STATE OF CALIFORNIA  
 PLANS APPROVAL DATE 10/10/11  
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.

**ABBREVIATION**  
 RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

**LEGEND**  
 - COLD PLANE AC PAVEMENT  
 RHMA-G  
 - COLD PLANE AC PAVEMENT HMA (TYPE A)

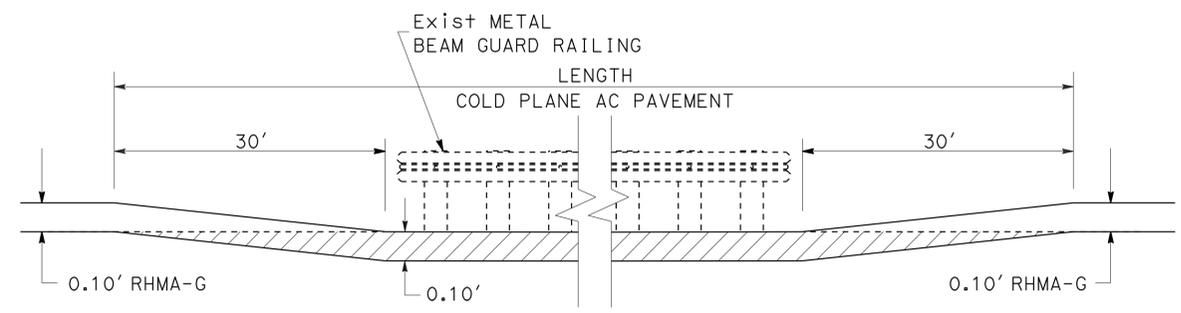
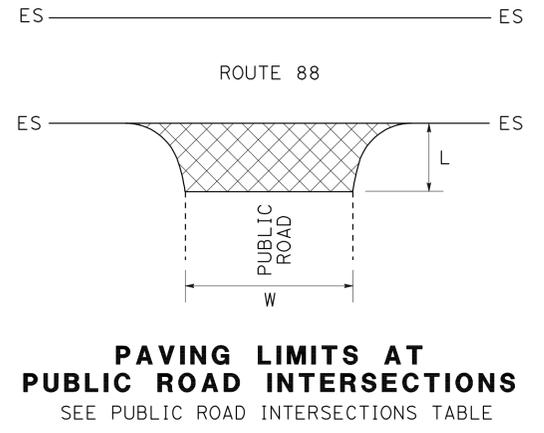
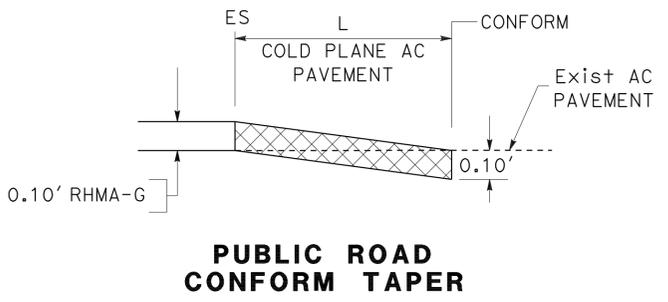
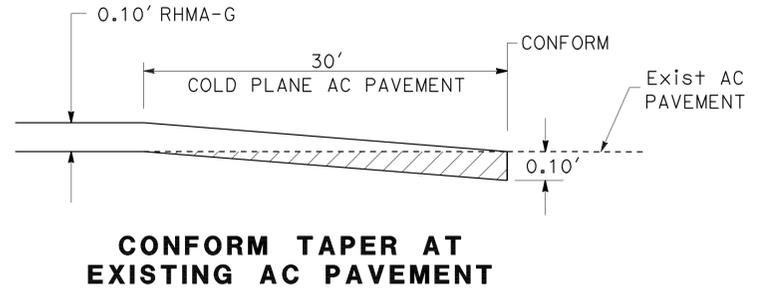
**TABLE OF BRIDGE**

PM	BRIDGE NAME	BRIDGE No.
66.37	SILVER LAKE SPILLWAY	26-0049

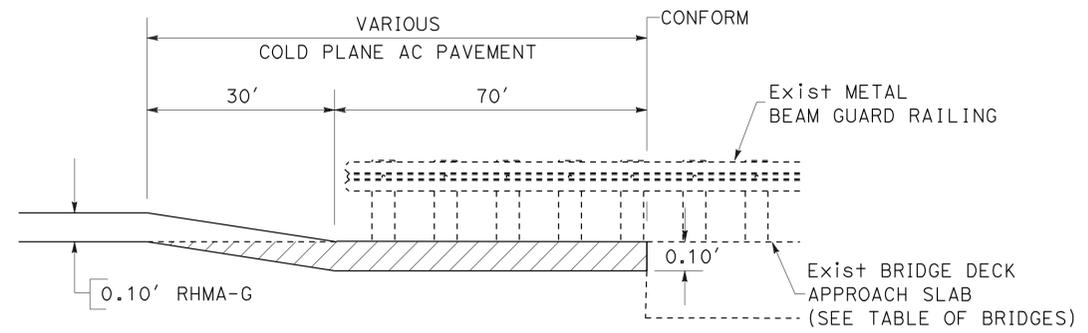
**PUBLIC ROAD INTERSECTIONS**

PM	SIDE	ROAD NAME	L	W
R62.8	L+	TRAGEDY SPRINGS Rd	30'	50'
R63.1	L+	TRAGEDY SPRINGS Rd	30'	50'
R63.1	R+	MUD LAKE Rd	45'	30'
R64.2	L+	PLASSE Rd	55'	30'
R64.7	L+	PARKING LOT	30'	30'
R65.5	R+	KAYES Rd	45'	22'
R65.5	L+	BOB CAT SPRINGS	25'	30'
R65.8	L+	KAYES Rd	50'	25'
R65.8	L+	KIT CARSON LODGE Rd	35'	40'
66.5	R+	KIT CARSON LODGE Rd	45'	50'
66.4	R+	SILVER LAKE CAMPGROUND	30'	30'
66.4	R+	SILVER LAKE CAMPGROUND	45'	30'

SEE CONSTRUCTION AREA SIGNS FOR ALL PUBLIC ROAD LOCATIONS.



**CONFORM TAPER AT METAL BEAM GUARD RAIL**  
 SEE SUMMARY OF QUANTITIES



**CONFORM TAPER AT BRIDGE DECK**  
 SEE SUMMARY OF QUANTITIES (CONFORM TAPER)

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

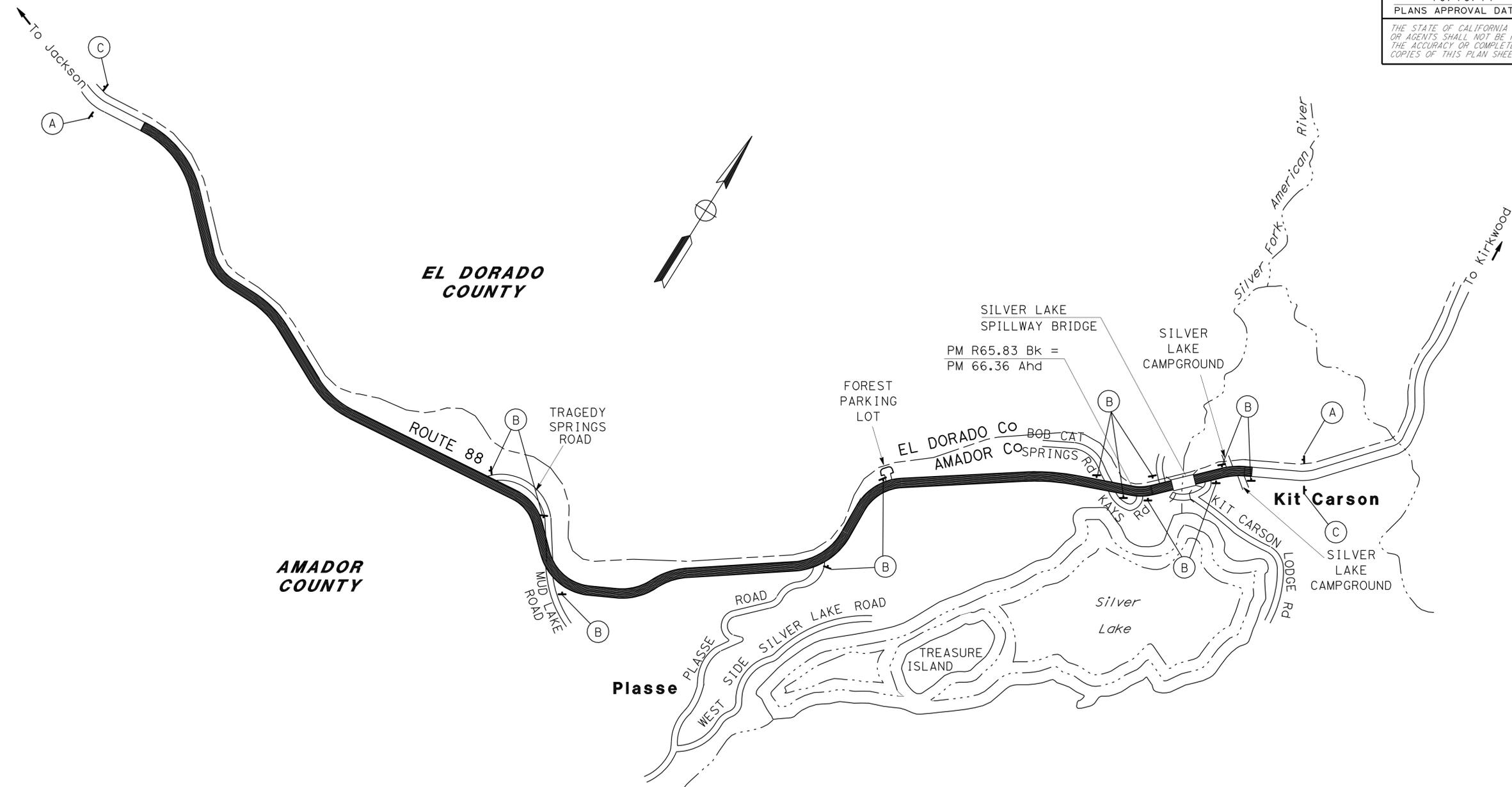
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 MAINTENANCE  
 FUNCTIONAL SUPERVISOR ALVIN MANGINDIN  
 CALCULATED/DESIGNED BY THOA HUYNH  
 CHECKED BY JOSE A. ALICEA II  
 REVISED BY JAA  
 DATE REVISED 10/10/11  
 USERNAME => s123936  
 DGN FILE => a0v990ga001.dgn  
 RELATIVE BORDER SCALE IS IN INCHES  
 UNIT 2593  
 PROJECT NUMBER & PHASE 10000205551

LAST REVISION DATE PLOTTED => 13-DEC-2011  
 00-00-00 TIME PLOTTED => 11:08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	4	9

REGISTERED CIVIL ENGINEER DATE 9/19/11  
 JOSE A. ALICEA II  
 No. 64817  
 Exp. 6/30/13  
 CIVIL  
 PLANS APPROVAL DATE 10/10/11

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	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)	G20-1	60" x 36"	2 - 4" x 6"	2	ROAD WORK NEXT 6 MILES
(B)	W20-1	36" x 36"	1 - 4" x 6"	12	ROAD WORK AHEAD
(C)	G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.

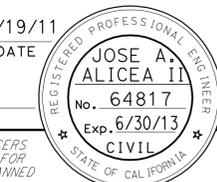
**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 MAINTENANCE  
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN  
 CALCULATED/DESIGNED BY: JOSE ALICEA II  
 CHECKED BY: THOA HUYNH  
 REVISED BY: JAA  
 DATE REVISED: 10/10/11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	5	9


 REGISTERED CIVIL ENGINEER DATE 9/19/11  
 PLANS APPROVAL DATE 10/10/11



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.

**ABBREVIATION**

RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

**NOTES:**

- \* - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
- (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
- \*\* - SEE PM EQUATION ON TITLE SHEET.

**PAVEMENT DELINEATION ITEMS**

LOCATION	REMOVE YELLOW THERMO-PLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)			REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)						REMOVE THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC PAVEMENT MARKING			
	4" YELLOW			8" WHITE	4" WHITE		8" WHITE	4" YELLOW				LIMIT LINE	STOP	TYPE III ARROW (L)	
	De+ 18	De+ 21	De+ 28	De+ 38A	De+ 27B	De+ 27C	De+ 38A	De+ 5	De+ 18	De+ 21					De+ 28
PM	LF			LF	LF						SQFT	SQFT			
R60.8/66.7**	5306	52,540	4268	1480	62,310	125	740	1168	2653	26,270	2134	66	360	264	66
TOTAL	62,114			1480	95,400						66	690			

**CONFORM TAPERS AT MBGR**

LOCATION	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvm+	RHMA-G
PM / PM			SQYD	TON
R65.68 / R65.83	830'	32'	2952*	197*

**CONFORM TAPERS**

LOCATION		LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvm+	RHMA-G
PM	DESCRIPTION			SQYD	TON
R60.8	Rte 88 (BEGIN CONSTRUCTION)	30'	32'	107	8
66.4	SILVER LAKE SPILLWAY Br (APPROACH)	100'	40'	445	30
66.7	Rte 88 (END CONSTRUCTION)	30'	32'	107	8
TOTAL				659 *	46 *

**DIGOUTS**

LOCATION		LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvm+	HMA (TYPE A)
PM / PM	SIDE			SQYD	TON
R60.80 / R62.00	EB	225'	8'	200	34
R62.00 / R62.00	EB	225'	8'	200	34
R62.00 / R63.00	EB	225'	8'	200	34
R63.00 / R64.00	EB	225'	8'	200	34
R64.00 / R65.00	EB	225'	8'	200	34
R65.00 / 66.70	EB	225'	8'	200	34
R60.80 / R62.00	WB	225'	8'	200	34
R62.00 / R62.00	WB	225'	8'	200	34
R62.00 / R63.00	WB	225'	8'	200	34
R63.00 / R64.00	WB	225'	8'	200	34
R64.00 / R65.00	WB	225'	8'	200	34
R65.00 / 66.70	WB	225'	8'	200	34
TOTAL				2400 *	408*

ACTUAL LOCATIONS AND DIMENSIONS OF DIGOUTS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.

**ROADWAY ITEMS**

LOCATION	COLD PLANE AC PAVEMENT	HOT MIX ASPHALT (TYPE A)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT	SHOULDER BACKING
PM R60.8/66.7**			7670	49	3400
DIGOUTS	2400	408		1	
CONFORM TAPERS	659		46	1	
CONFORM TAPERS AT INTERSECTIONS	1790	128		1	
CONFORM TAPERS AT MBGR	2952		197	2	
TOTAL	7801	536	7913	54	3400

**CONFORM TAPERS AT INTERSECTIONS**

LOCATION		LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvm+	HMA (TYPE A)	
PM	SIDE DESCRIPTION			SQYD	TON	
R62.7	L+	TRAGEDY SPRINGS Rd	30'	50'	167	12
R63.1	L+	TRAGEDY SPRINGS Rd	30'	50'	167	12
R63.1	R+	MUD LAKE Rd	45'	30'	150	11
R64.2	L+	PLASSE Rd	55'	30'	184	13
R64.7	L+	PARKING LOT	30'	55'	184	13
R65.5	R+	KAYES Rd	25'	30'	84	6
R65.5	L+	BOB CAT SPRINGS	35'	20'	78	6
R65.8	L+	KAYES Rd	50'	25'	139	10
R65.8	L+	KIT CARSON LODGE Rd	35'	35'	137	10
66.5	R+	KIT CARSON LODGE Rd	45'	50'	250	17
66.4	R+	SILVER LAKE CAMPGROUND	30'	30'	100	7
66.4	R+	SILVER LAKE CAMPGROUND	45'	30'	150	11
TOTAL				1790*	128*	

**SUMMARY OF QUANTITIES Q-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 MAINTENANCE  
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN  
 CALCULATED/DESIGNED BY: JOSE ALICEA II  
 CHECKED BY: THOA HUYNH  
 REVISED BY: JAA  
 DATE REVISED: 10/10/11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	6	9

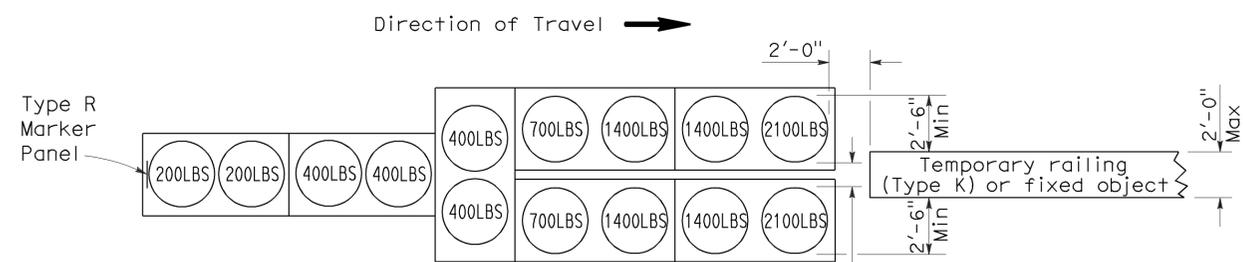
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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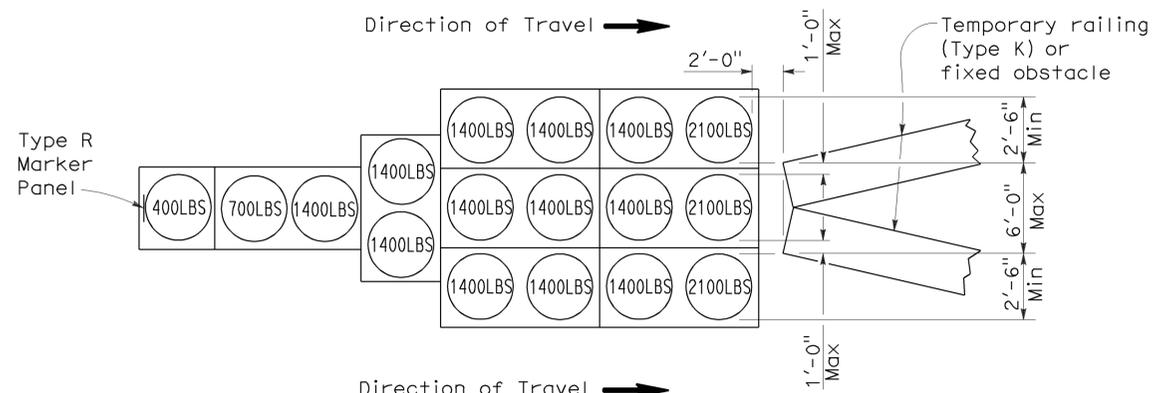
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 10/10/11



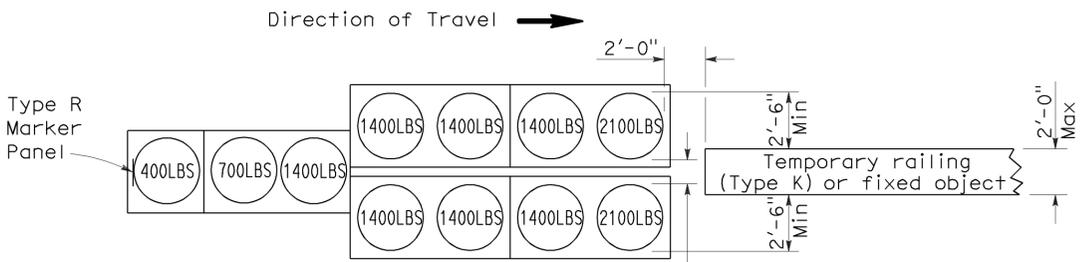
**ARRAY 'TU14'**

Approach speed 45 mph or more



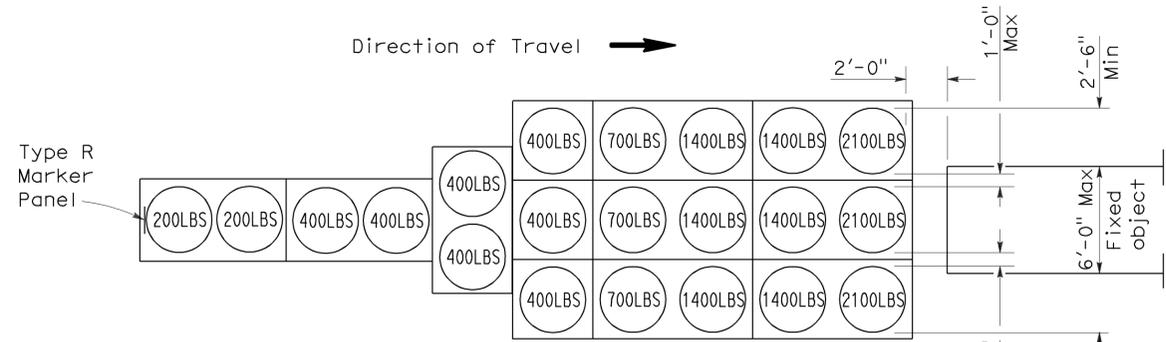
**ARRAY 'TU17'**

Approach speed less than 45 mph



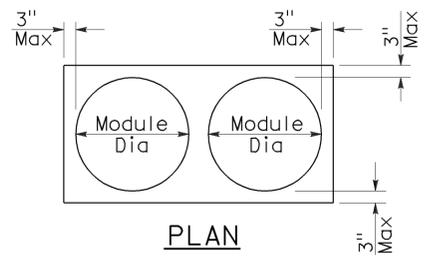
**ARRAY 'TU11'**

Approach speed less than 45 mph

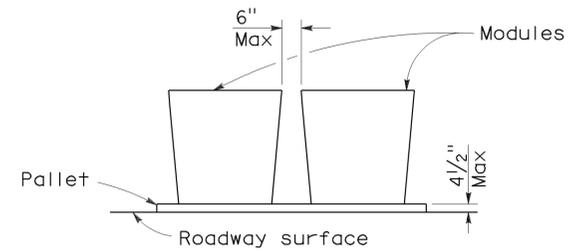


**ARRAY 'TU21'**

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**

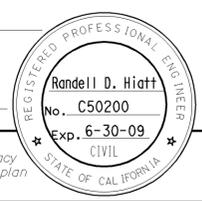
2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Amo	88	R60.8/66.7	7	9

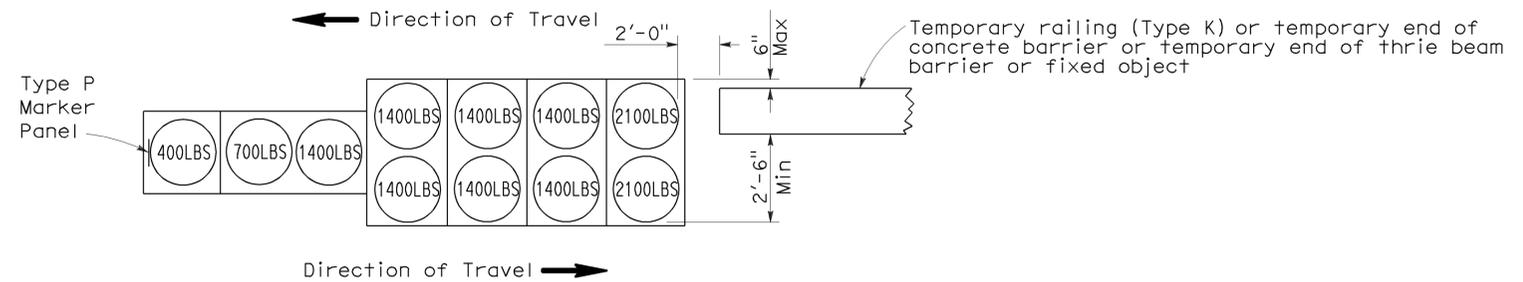
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

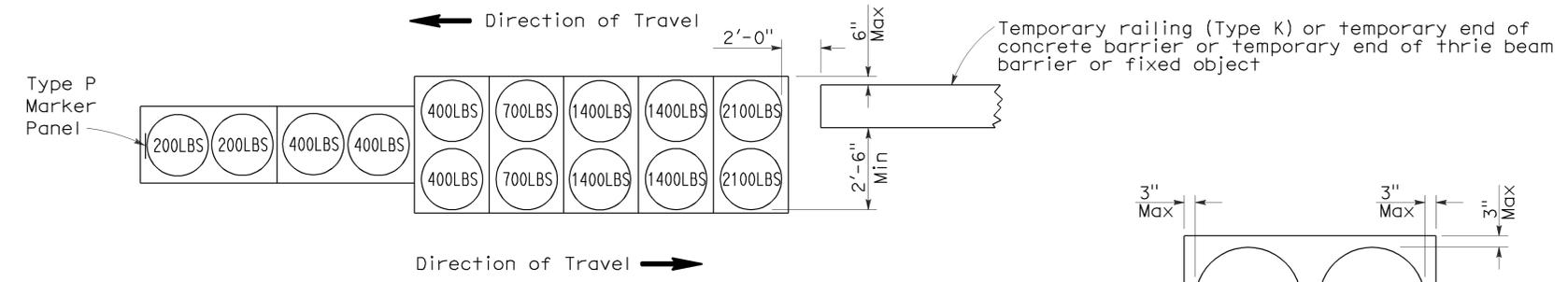
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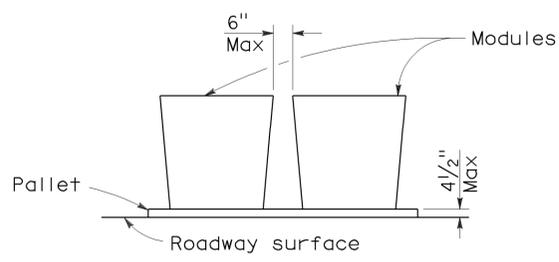
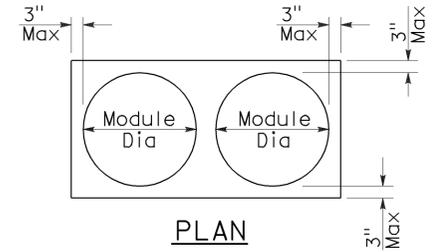
To accompany plans dated 10/10/11



**ARRAY 'TB11'**  
Approach speed less than 45 mph



**ARRAY 'TB14'**  
Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**  
See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

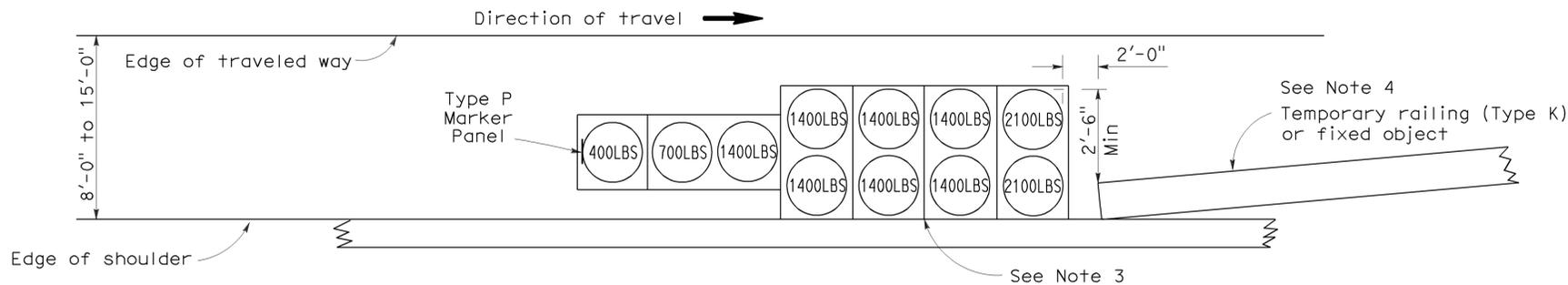
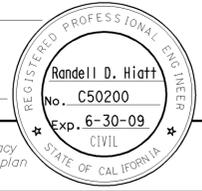
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	8	9

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

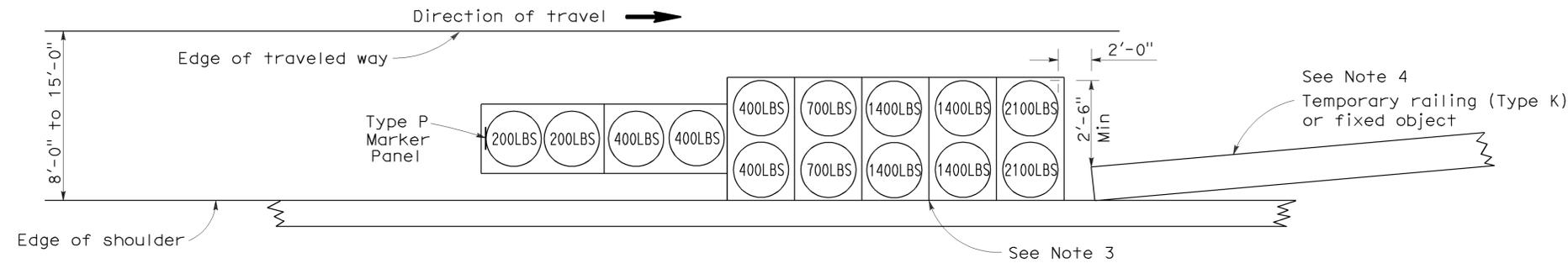
June 6, 2008  
PLANS APPROVAL DATE

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To accompany plans dated 10/10/11



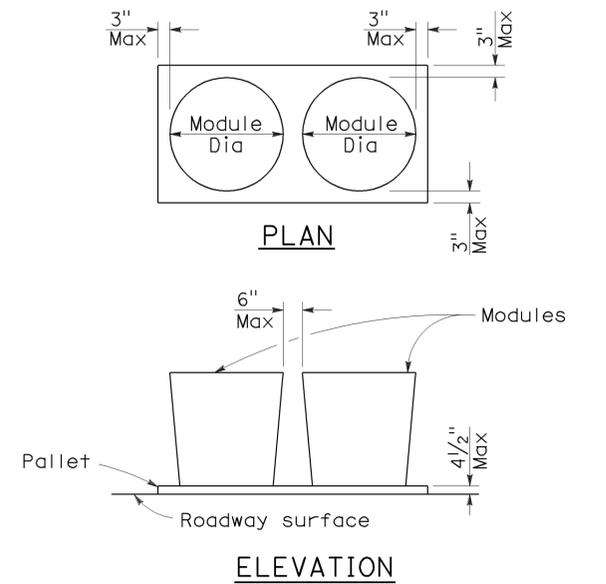
**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



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

**NOTES:**

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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**  
NO SCALE

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

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

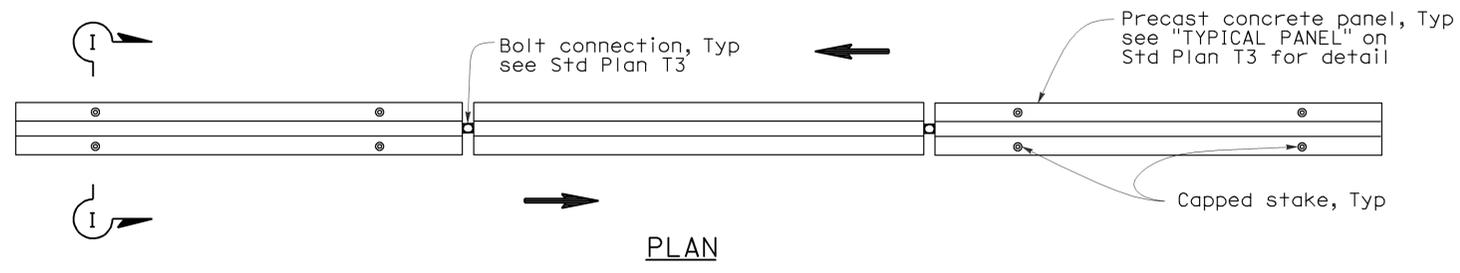
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	88	R60.8/66.7	9	9

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

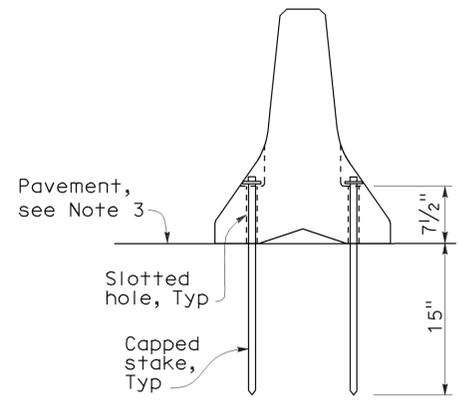
May 20, 2011  
PLANS APPROVAL DATE

*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 10/10/11



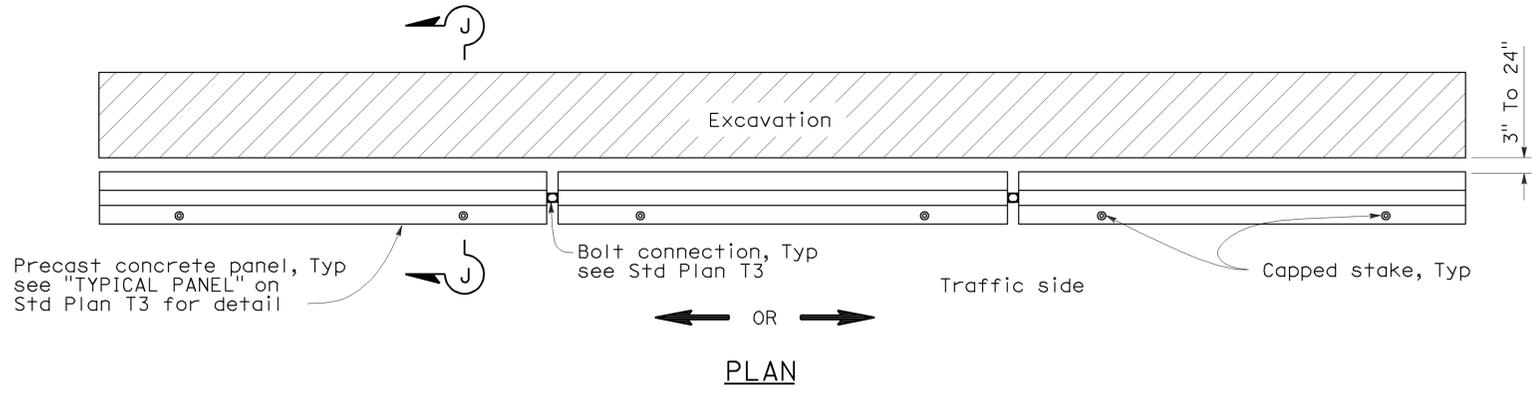
**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1



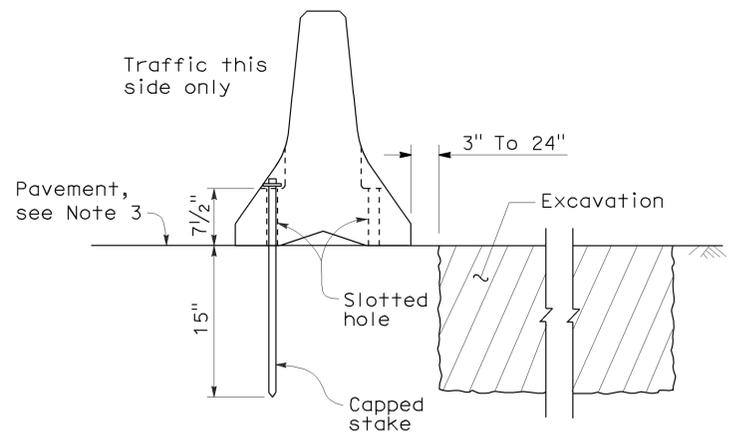
**SECTION I-I**

**NOTES:**

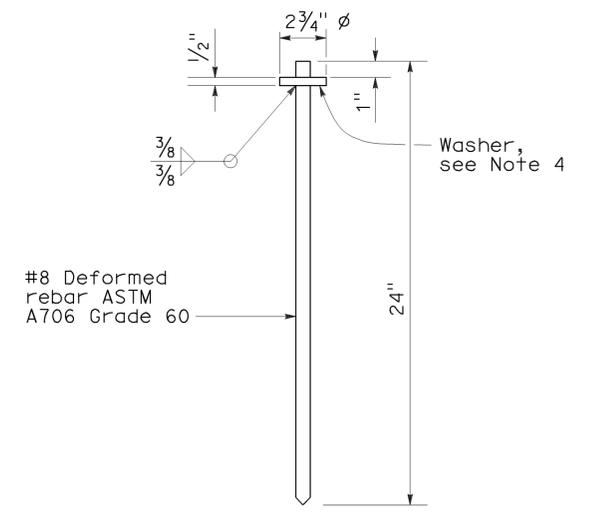
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of 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



**SECTION J-J**



**CAPPED STAKE DETAIL**

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