Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	1	10

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

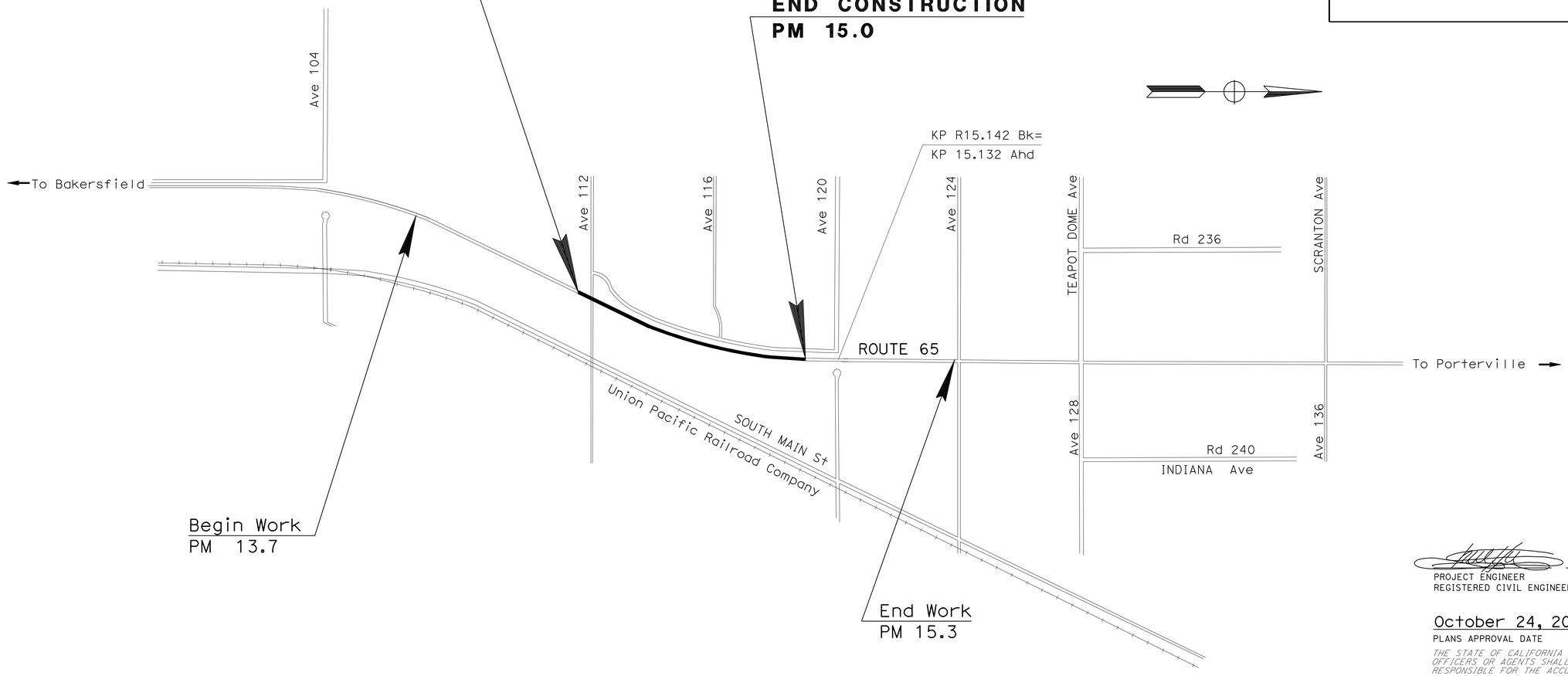
IN TULARE COUNTY NEAR PORTERVILLE

FROM AVENUE 112

TO 0.1 MILE SOUTH OF AVENUE 120

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."

09-15-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
SHUE X. VUE
No. 63657
Exp. 09-30-12
CIVIL
STATE OF CALIFORNIA

October 24, 2011
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.

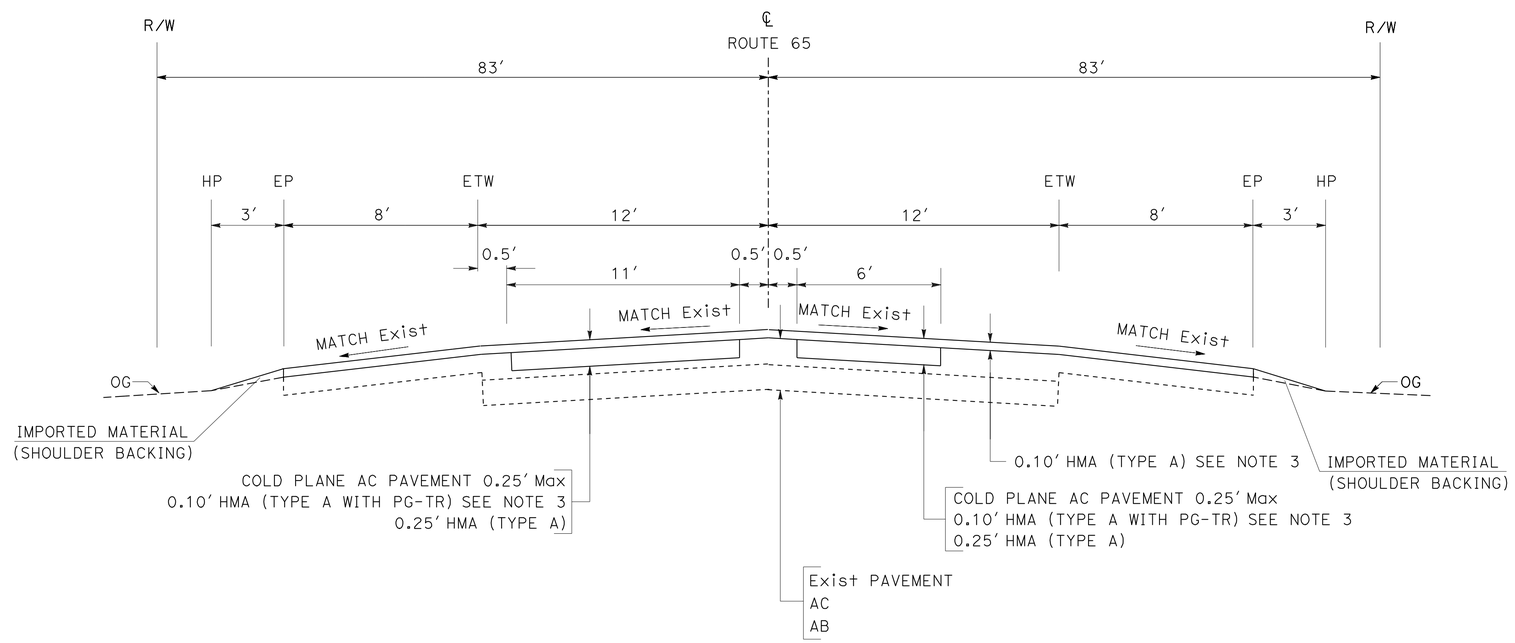
PROJECT MANAGER: FRANK GONZALEZ
DESIGN ENGINEER: SHUE VUE

CONTRACT No.	06-0N2404
PROJECT ID	0600020496

LAST REVISION 10-03-11
DATE PLOTTED => 24-NOV-2011
TIME PLOTTED => 07:57

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. HOT MIX ASPHALT (TYPE A WITH PG-TR) GRADE 64-28



ROUTE 65
PM 14.0 - PM 15.0

TYPICAL CROSS SECTION

NO SCALE

X-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	2	10

REGISTERED CIVIL ENGINEER — 09-15-11 DATE

SHUE X. VUE
No. 63657
Exp 09-30-12
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

10-24-11
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.

CALCULATED-DESIGNED BY: RENE SIQUEIROS
CHECKED BY: SHUE VUE
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION DATE PLOTTED => 09-NOV-2011
10-03-11 TIME PLOTTED => 08:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	3	10

REGISTERED CIVIL ENGINEER — 09-15-11 DATE

SHUE X. VUE No. 63657 Exp. 09-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

10-24-11
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.

ABBREVIATION:

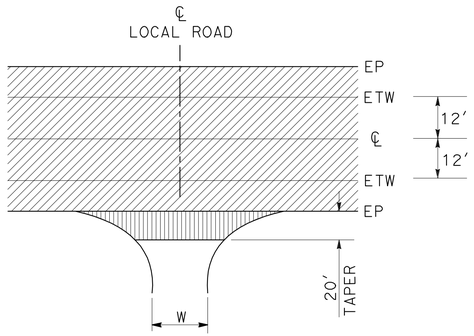
HMA-TR = HMA (TYPE A WITH PG-TR) GRADE 64-28

LEGEND

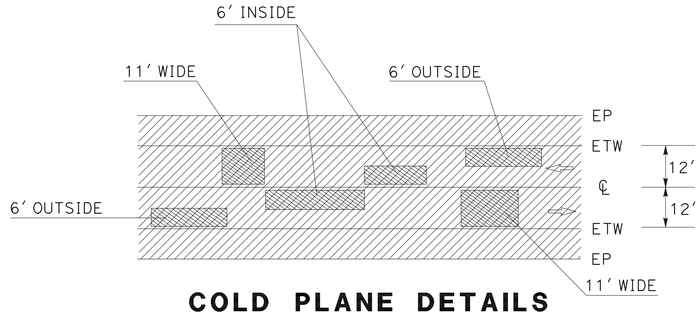
0.25′ COLD PLANE AC PAVEMENT
0.25′ HMA (TYPE A)
LENGTHS AND WIDTHS VARY

0.10′ HMA (TYPE A WITH PG-TR) GRADE 64-28

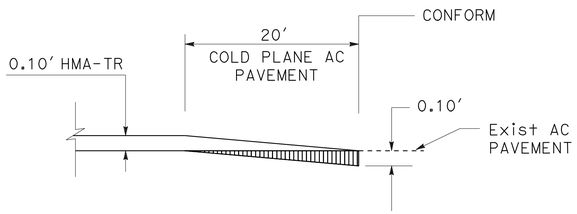
0.10′ Max COLD PLANE AC Pvmt
0.10′ TR HMA (TYPE A)



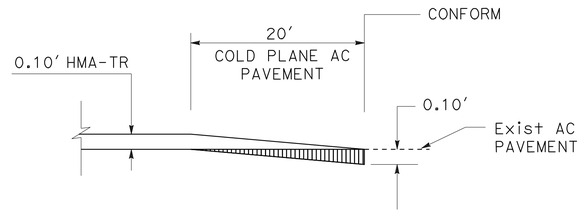
TYPICAL INTERSECTION WORK



COLD PLANE DETAILS



PUBLIC ROAD CONFORM TAPER



LONGITUDINAL CONFORM TAPER AT BEGIN AND END CONSTRUCTION

CONSTRUCTION DETAILS
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
CALCULATED-DESIGNED BY: RENE SIQUEIROS
CHECKED BY: SHUE VUE
REVISED BY
DATE REVISED

LAST REVISION 10-03-11 | DATE PLOTTED => 09-NOV-2011 | TIME PLOTTED => 08:57

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 60N240ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1594
PROJECT NUMBER & PHASE 06000204961

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	4	10

REGISTERED CIVIL ENGINEER — 09-15-11 DATE

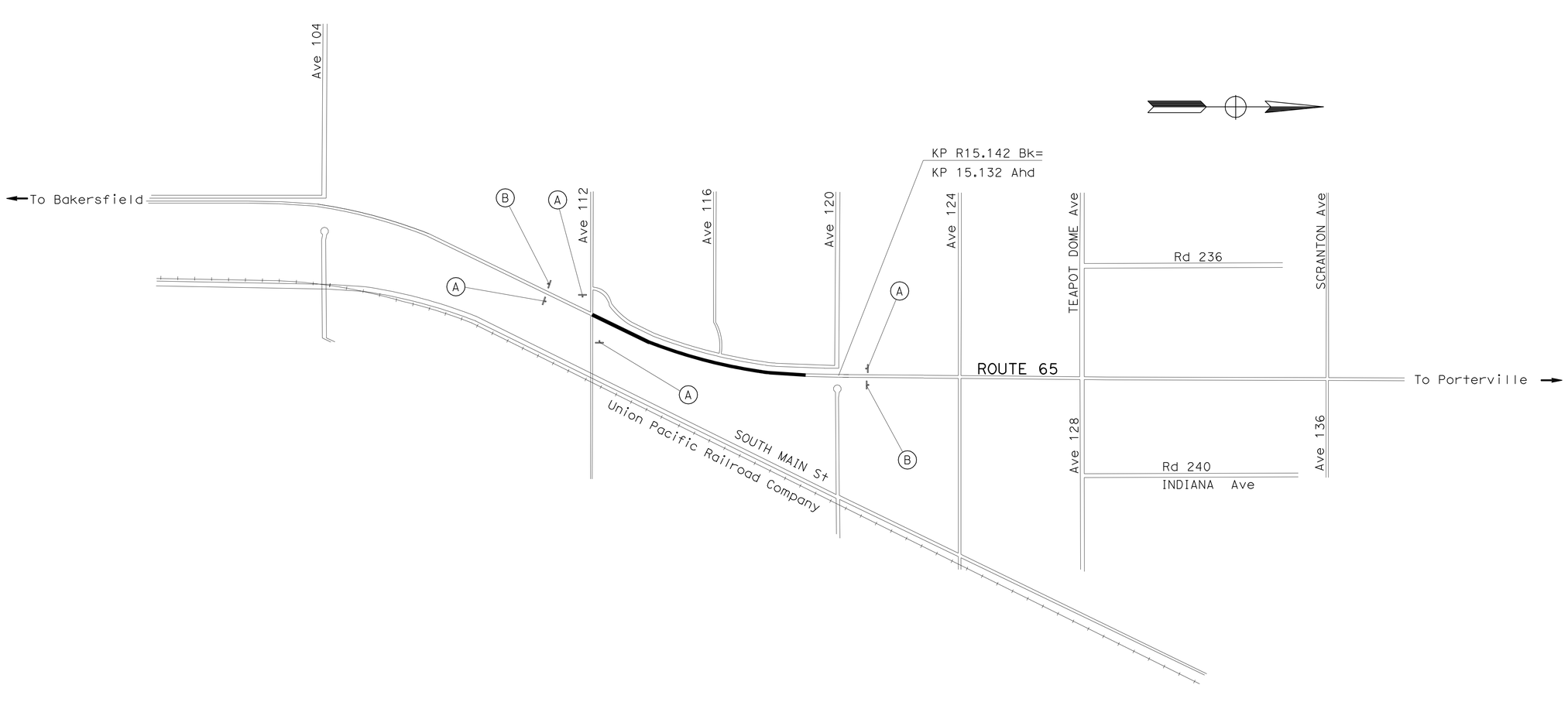
SHUE X. VUE No. 63657 Exp. 09-30-12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

10-24-11
PLANS APPROVAL DATE

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	4
(B)	G20-1	36" x 18"	END ROAD WORK	1 - 4" x 4"	2

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



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

REVISED BY | DATE REVISED
RENE SIQUEIROS | SHUE VUE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 09-NOV-2011
10-03-11 | TIME PLOTTED => 08:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	5	10

09-15-11
REGISTERED CIVIL ENGINEER DATE

SHUE X. VUE
No. 63657
Exp. 09-30-12
CIVIL

10-24-11
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.

NOTE:
* = QUANTITIES ARE INCLUDED IN ROADWAY QUANTITIES TABLE (SHEET Q-2).

CONFORM TAPER

ROUTE	PM	SIDE	LOCATION	"L"	"W"	COLD PLANE AC PAVEMENT SQYD	HMA (TYPE A WITH PG-TR) TON
65	14.00		BEGIN	20'	40'	89	6
	14.01	L+	Ave 112	20'	120'	400	26
	14.01	R+	Ave 112	20'	120'	400	26
	15.00		END	20'	28'	89	6
TOTAL						978 *	64 *

COLD PLANE AREAS

Tul 65														
NORTHBOUND							SOUTHBOUND							
BEGIN (PM)	END (PM)	LENGTH (LF) 11' WIDE	6' INSIDE	6' OUTSIDE	COLD PLANE AC PAVEMENT SQYD	HMA (TYPE A) TON	BEGIN (PM)	END (PM)	LENGTH (LF) 11' WIDE	6' INSIDE	6' OUTSIDE	COLD PLANE AC PAVEMENT SQYD	HMA (TYPE A) TON
14.00	14.02	84			103	17	14.97	14.78	972			1,188	194
14.02	14.03	53			65	11	14.77	14.75	106			130	21
14.06	14.07	26			32	5	14.74	14.73	21			26	4
14.07	14.08	53			65	11	14.73	14.71		74		50	8
14.09	14.09	32			39	6	14.70	14.69		26		17	3
14.09	14.12		153		102	17	14.69	14.69	16			20	4
14.12	14.17	248			303	49	14.69	14.68		79		53	9
14.17	14.18		37		25	4	14.65	14.64			32	21	4
14.18	14.19		21		14	2	14.59	14.58			26	17	3
14.20	14.23	190			232	38	14.57	14.37	1,061			1,297	212
14.24	14.24		21		14	2	14.36	14.29	364			445	73
14.24	14.34	528			645	105	14.29	14.28			58	39	6
14.34	14.36		95		63	10	14.28	14.07	1,119			1,368	223
14.36	14.57	1104			1349	220	14.07	14.05			111	75	12
14.57	14.60		190		127	21	14.05	14.01	211			257	42
14.60	14.61			26	18	3							
14.61	14.64	137			168	27							
14.64	14.64			26	18	3							
14.64	14.73	449			549	90							
14.73	14.74			42	28	5							
14.74	14.76	127			155	25							
14.76	14.78			132	88	14							
14.78	14.82	164			200	33							
14.82	14.83			74	49	8							
14.83	14.87	227			278	45							
14.87	14.88			48	32	5							
14.88	14.92	185			226	37							
14.92	14.93			63	42	7							
14.93	14.93	32			39	6							
14.93	14.95			58	39	6							
TOTAL					5107 *	832 *						5003 *	818 *

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
RENE SIQUEIROS | SHUE VUE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
FRANK GONZALEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 09-NOV-2011
10-03-11 | TIME PLOTTED => 08:57

BORDER LAST REVISED 7/2/2010
USERNAME => s115755
DGN FILE => 60N240pq001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1594
PROJECT NUMBER & PHASE 06000204961

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	6	10

9-15-11
REGISTERED CIVIL ENGINEER DATE

10-24-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SHUE X. VUE
No. 63657
Exp.09-30-12
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.

ROADWAY QUANTITIES

LOCATION	COLD PLANE AC PAVEMENT	HMA (TYPE A)	TACK COAT	HMA (TYPE A WITH PG-TR)	IMPORTED MATERIAL (SHOULDER BACKING)
PM TO PM	SQYD	TON	TON	TON	TON
14.0 TO 15.0	11,088	1650	10	1670	260
TOTAL	11,088	1650	10	1670	260

PAVEMENT DELINEATION

LOCATION	DETAIL No.	4" THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER (RETROREFLECTIVE)		REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER (N)
		SOLID	(BROKEN 36 - 12)	(BROKEN 12 - 3)	TYPE D (YELLOW TWO WAY)	TYPE H (YELLOW ONE WAY)		
PM		LF	LF	LF	EA	EA	LF	EA
14.0-15.0	6		4,600		98		4,600	150
	19	640	640		15	28	1,280	
	27B	10,000						
	27C			960				
SUB TOTAL		10,640	5,040	960	113	28		
TOTAL		10,640	5,040	960	141		5,880	

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

SUMMARY OF QUANTITIES
Q-2

REVISED BY | DATE REVISED
RENE SIQUEIROS | SHUE VUE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: FRANK GONZALEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION DATE PLOTTED => 24-NOV-2011
10-03-11 TIME PLOTTED => 08:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Tul	65	14.0/15.0	7	10

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

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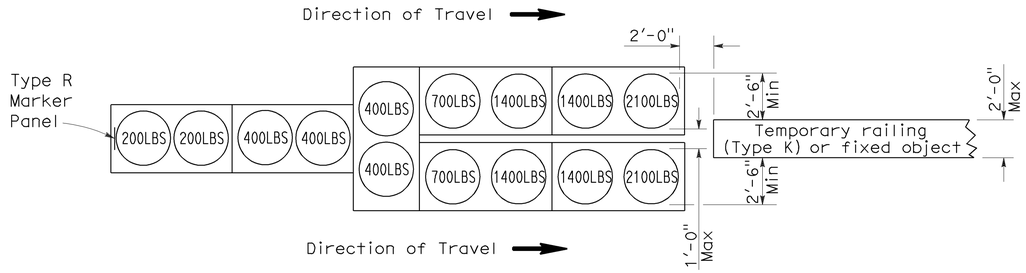
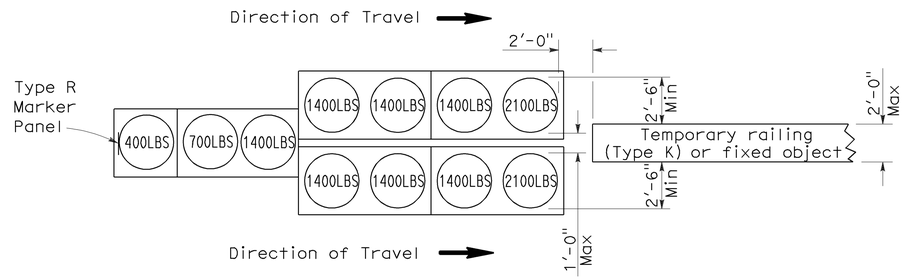
To accompany plans dated 10-24-11



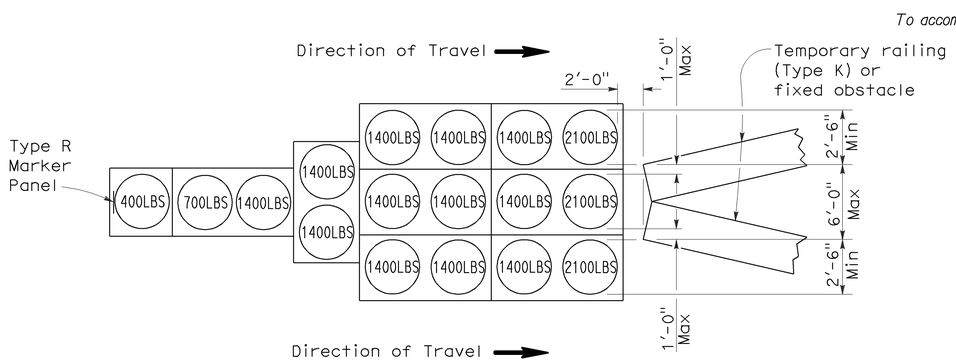
ARRAY 'TU14'

Approach speed 45 mph or more



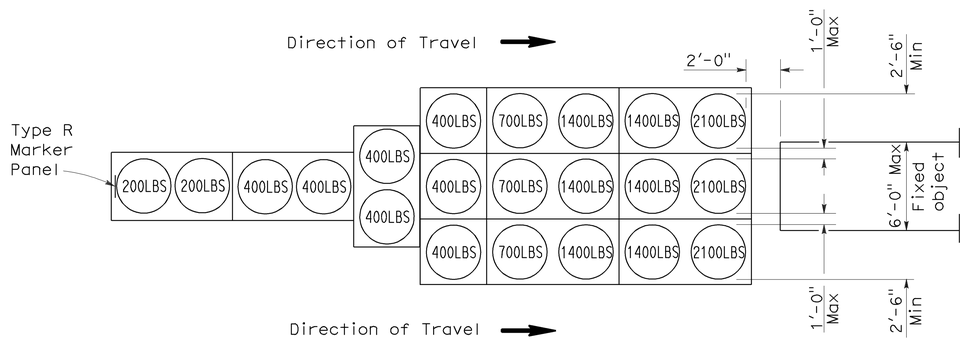
ARRAY 'TU11'

Approach speed less than 45 mph



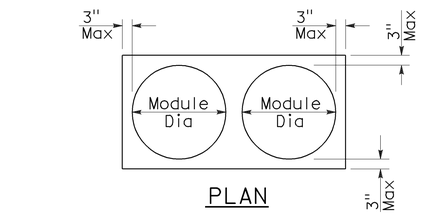
ARRAY 'TU17'

Approach speed less than 45 mph

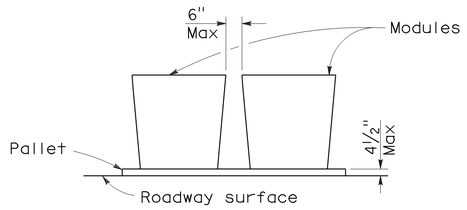


ARRAY 'TU21'

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
06	Tul	65	14.0/15.0	8	10

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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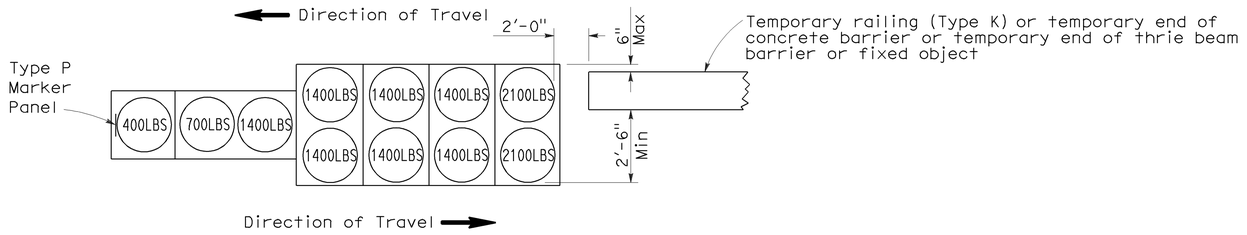
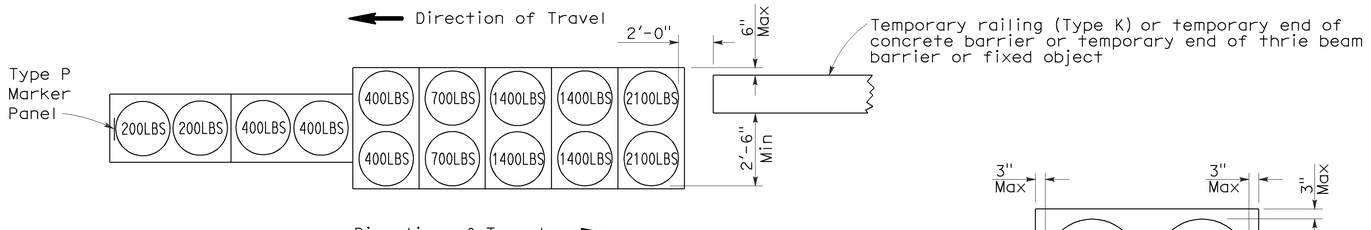
To accompany plans dated 10-24-11



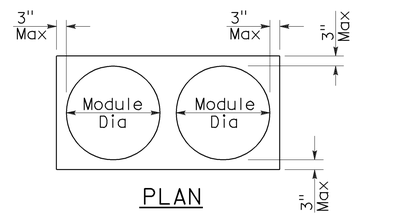
ARRAY 'TB11'

Approach speed less than 45 mph

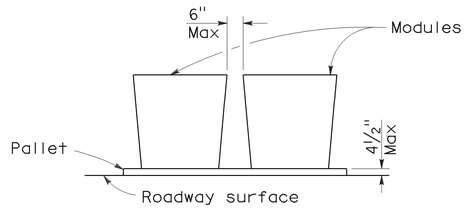


ARRAY 'TB14'

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
06	Tul	65	14.0/15.0	9	10

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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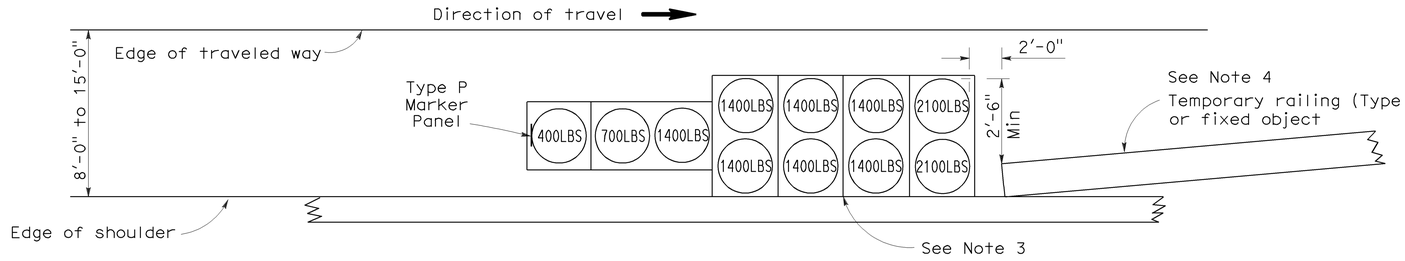
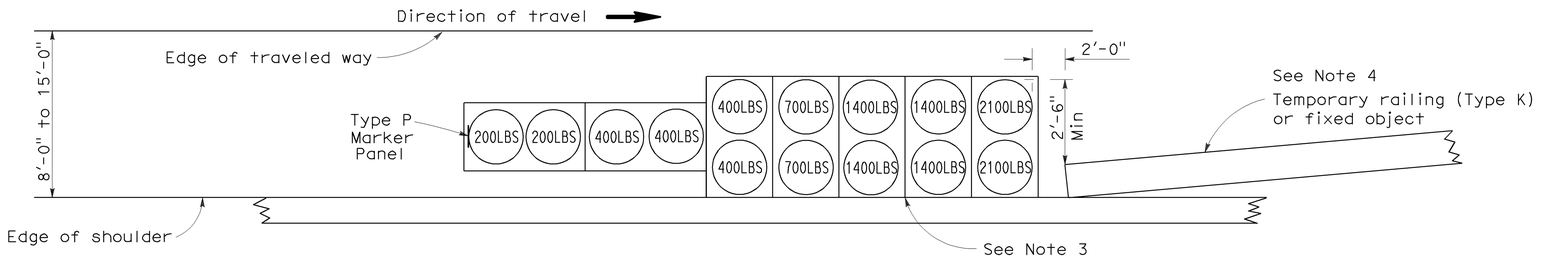
To accompany plans dated 10-24-11



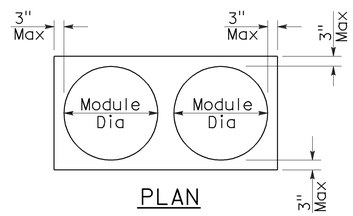
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

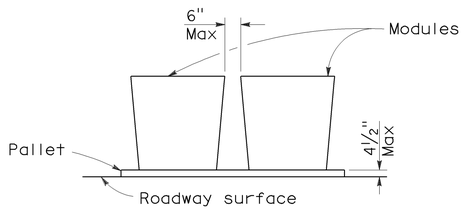


ARRAY 'TS14'

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	65	14.0/15.0	10	10

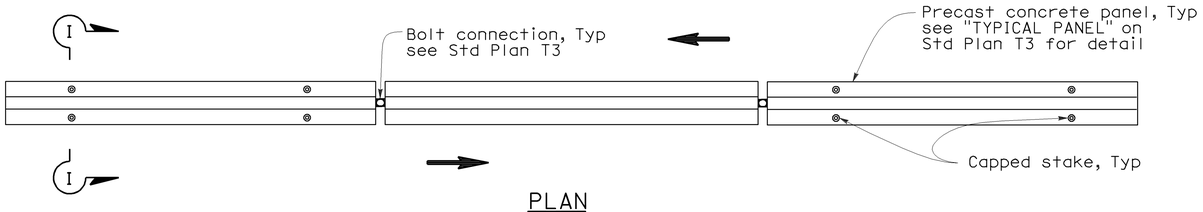
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
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.

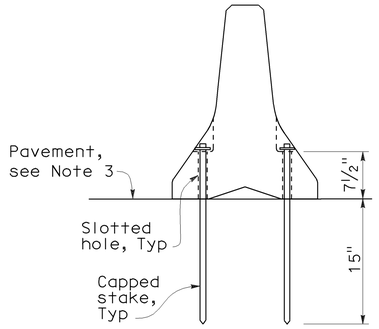
To accompany plans dated 10-24-11



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

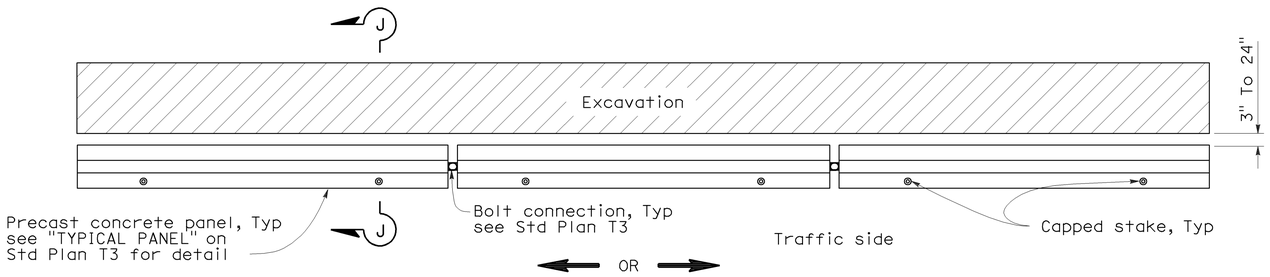
See Note 1



SECTION I-I

NOTES:

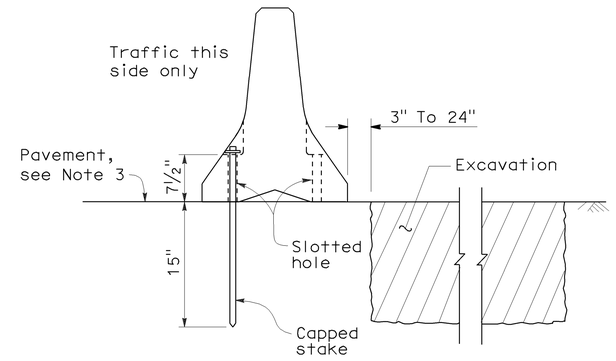
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



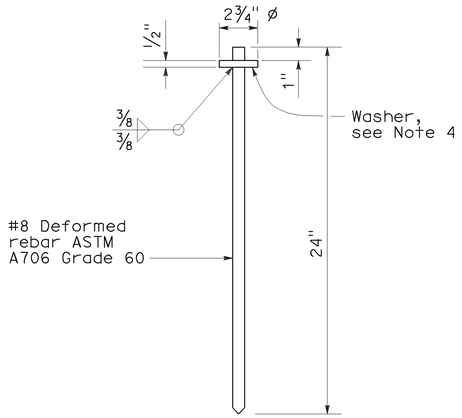
PLAN

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.

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A

8-31-10