Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	1	11

INDEX OF PLANS

SHEET No.	DESCRITPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6-7	SUMMARY OF QUANTITIES
8-10	REVISED STANDARD PLANS
11	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

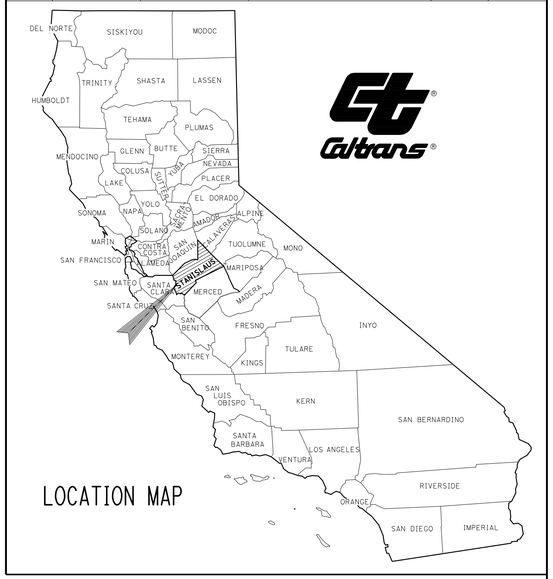
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

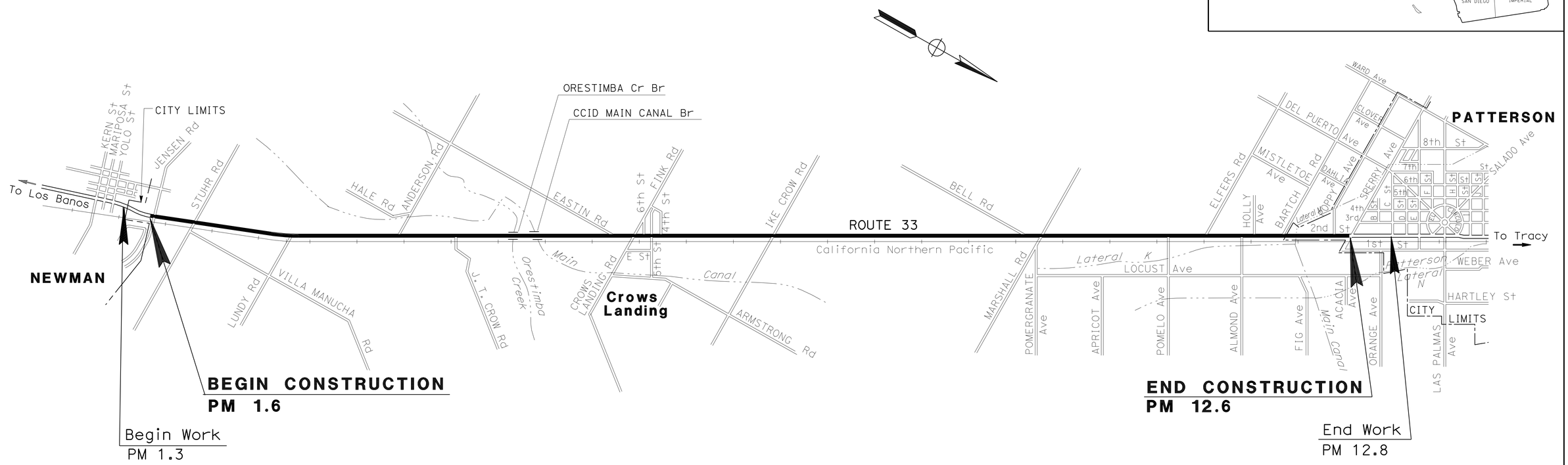
STATE HIGHWAY

IN STANISLAUS COUNTY AT AND NEAR CROWS LANDING FROM 0.1 MILE SOUTH OF JENSEN ROAD TO SPERRY AVENUE

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: ALVIN MANGINDIN

DESIGN ENGINEER: ALVIN MANGINDIN

PROJECT ENGINEER / REGISTERED CIVIL ENGINEER — DATE: 10/13/11

REGISTERED PROFESSIONAL ENGINEER — JOSE A. ALICEA II — No. 64817 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

October 17, 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.

CONTRACT No.	10-0V8804
PROJECT ID	1000020467

LAST REVISION 00-00-00 — DATE PLOTTED => 13-JAN-2012 — TIME PLOTTED => 11:06

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	2	11

REGISTERED ELECTRICAL ENGINEER 10/13/11 DATE

10/17/11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/13 CIVIL STATE OF CALIFORNIA

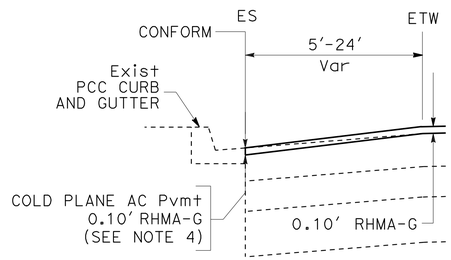
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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.

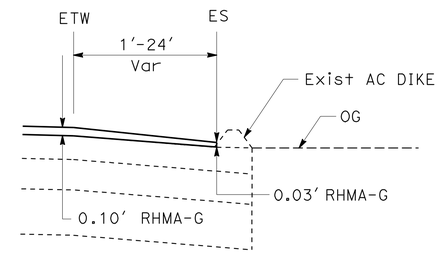
ABBREVIATION

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



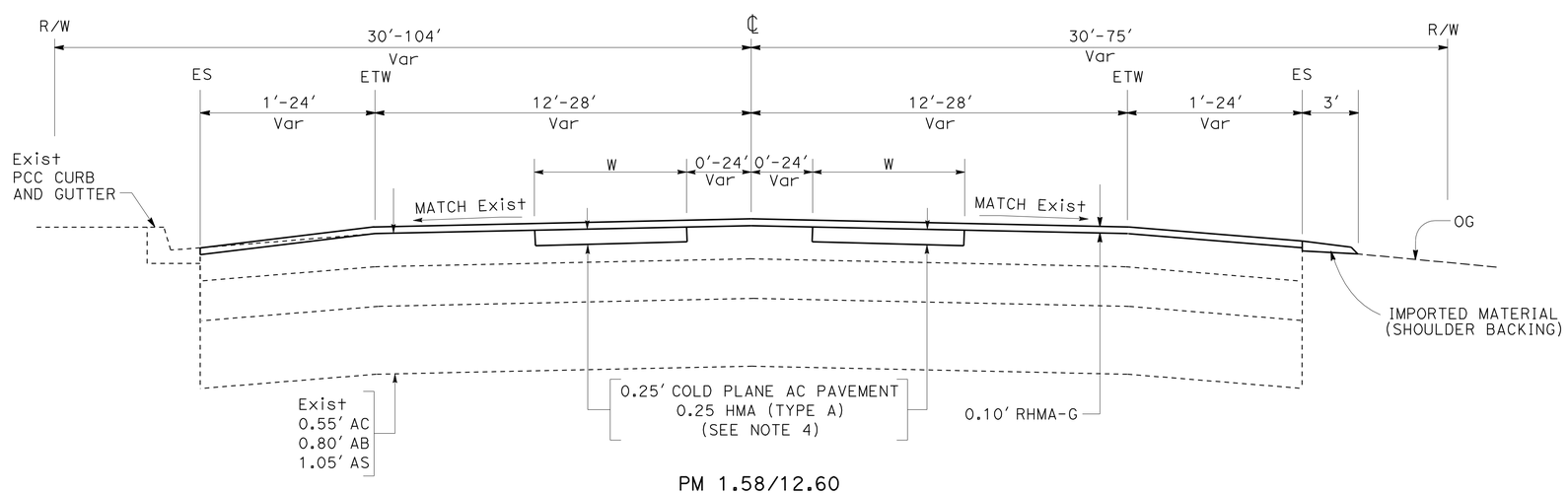
PM 1.67/1.81 (Lt)
PM 6.89/7.01 (Lt)
PM 12.20/12.23 (Lt)
PM 12.47/12.58 (Lt)

CURB & GUTTER LOCATIONS



PM 1.58/1.75 (Rt)
PM 1.76/1.80 (Rt)

AC DIKE LOCATIONS



PM 1.58/12.60
ROUTE 33

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY	DATE REVISED
JAA	10/13/11

JOSE ALICEA II — THOA HUYNH — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

LAST REVISION 00-00-00 — DATE PLOTTED => 13-JAN-2012 — TIME PLOTTED => 11:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	3	11

REGISTERED CIVIL ENGINEER DATE 10/13/11

PLANS APPROVAL DATE 10/17/11

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/13 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.

ABBREVIATION

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

LEGEND

- COLD PLANE AC PAVEMENT RHMA-G
- COLD PLANE AC PAVEMENT HMA (TYPE A)
- HMA (TYPE A) PLACE HMA (Misc AREA)

PUBLIC ROAD INTERSECTIONS

PM	SIDE	ROAD NAME	L	W
1.6	R+	SHERMAN Rd	25′	60′
1.6	L+	JENSEN Rd	30′	22′
2.1	R+	STUHR Rd	45′	43′
2.1	L+	STUHR Rd	35′	35′
3.2	R+	LUNDY Rd	45′	24′
4.4	L+	ANDERSON Rd	30′	40′
4.8	R+	J.T. CROW Rd	45′	22′
6.5	L+	EASTIN Rd	35′	76′
6.7	R+	CROWS LANDING Rd	45′	75′
6.7	L+	FINK Rd	65′	54′
6.8	L+	6TH St	40′	30′
6.9	R+	5TH St	35′	35′
6.9	L+	5TH St	40′	35′
7.0	L+	4TH St	30′	35′
7.9	R+	IKE CROW Rd	40′	35′
7.9	L+	IKE CROW Rd	30′	28′
10.2	R+	MARSHALL Rd	35′	30′
10.2	L+	MARSHALL Rd	30′	37′
11.2	R+	POMELO Ave	35′	25′
11.4	L+	ELFERS Rd	35′	18′
11.7	R+	ALMOND Ave	35′	25′
11.8	L+	HOLLY Ave	30′	16′
12.0	L+	BARTCH Rd	35′	37′
12.4	L+	POPPY Ave	30′	30′

SEE CONSTRUCTION AREA SIGNS FOR ALL PUBLIC ROAD LOCATIONS.

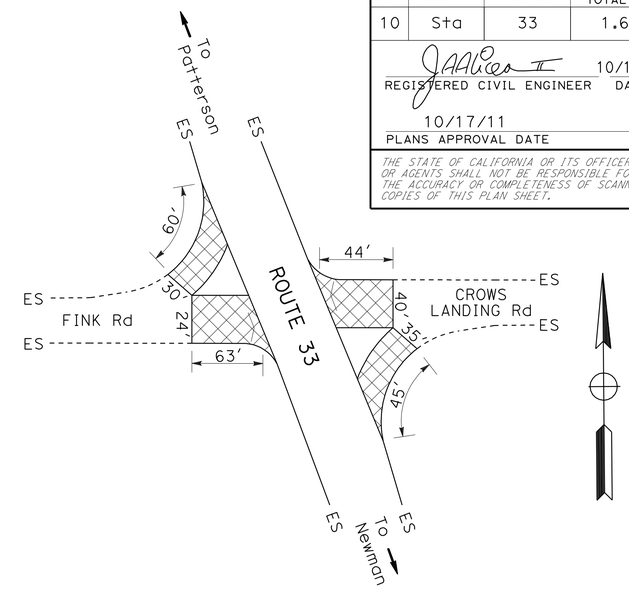
TABLE OF BRIDGES

PM	BRIDGE NAME	BRIDGE No.
5.57	ORESTIMBA CREEK	38-0021
6.09	CCID MAIN CANAL	38-0022

PRIVATE DRIVEWAY INTERSECTIONS

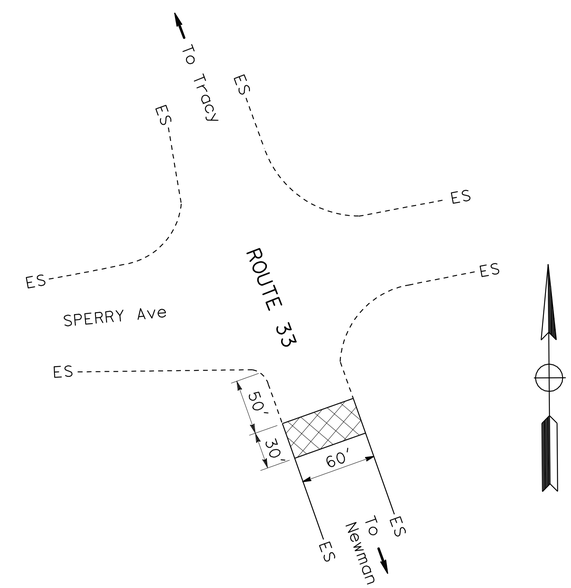
PM	SIDE	WIDTH	PM	SIDE	WIDTH
1.55	L+	20′	4.33	R+	20′
1.67	L+	20′	5.53	R+	20′
1.69	L+	20′	5.63	L+	20′
1.70	L+	20′	6.66	L+	20′
1.71	L+	20′	7.34	R+	20′
1.75	R+	20′	8.52	R+	20′
2.00	L+	20′	9.65	R+	20′
2.03	L+	20′	10.05	L+	20′
2.06	L+	20′	10.40	R+	20′
2.08	L+	20′	11.84	L+	20′
3.15	L+	20′	12.07	L+	20′
3.22	L+	20′	12.44	L+	20′
3.65	L+	20′			

ACTUAL WIDTHS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.



Rte 33 - PM 6.73

PAVING LIMIT AT FINK Rd & CROWS LANDING Rd



Rte 33 - PM 12.57

PAVING LIMIT AT SPERRY AVENUE

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

CALCULATED-DESIGNED BY: JOSE A. ALICEA II

CHECKED BY: THOA HUYNH

REVISED BY: JAA

DATE REVISED: 10/13/11

LAST REVISION 00-00-00

DATE PLOTTED => 13-JAN-2012

TIME PLOTTED => 11:06

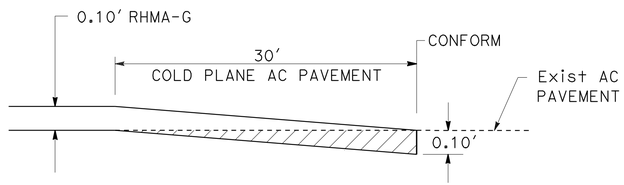
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	4	11

REGISTERED CIVIL ENGINEER 10/13/11 DATE

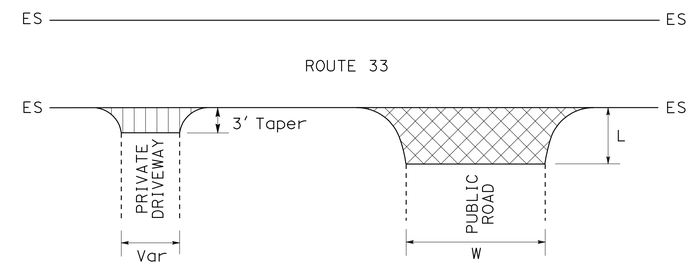
10/17/11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 06/30/13 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.

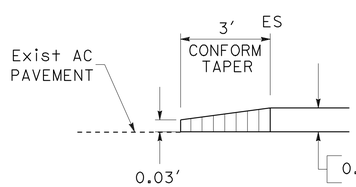


CONFORM TAPER AT EXISTING AC PAVEMENT

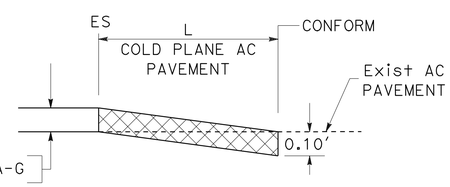


PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS

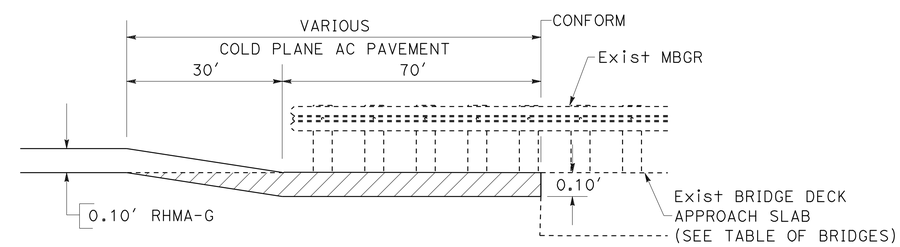
SEE PUBLIC ROAD AND PRIVATE DRIVEWAY INTERSECTIONS TABLES



PRIVATE DRIVEWAY CONFORM TAPER



PUBLIC ROAD CONFORM TAPER



SECTION

CONFORM TAPER AT APPROACH/DEPARTURE BRIDGE DECK

SEE SUMMARY OF QUANTITIES

CONSTRUCTION DETAILS

NO SCALE

C-2

JOSE A. ALICEA II	JAA	CALCULATED-DESIGNED BY	REVISED BY
THOA HUYNH	10/13/11	CHECKED BY	DATE REVISED
ALVIN MANGINDIN		FUNCTIONAL SUPERVISOR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 00-00-00
DATE PLOTTED => 13-JAN-2012
TIME PLOTTED => 11:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	5	11

REGISTERED CIVIL ENGINEER DATE 10/13/11

10/17/11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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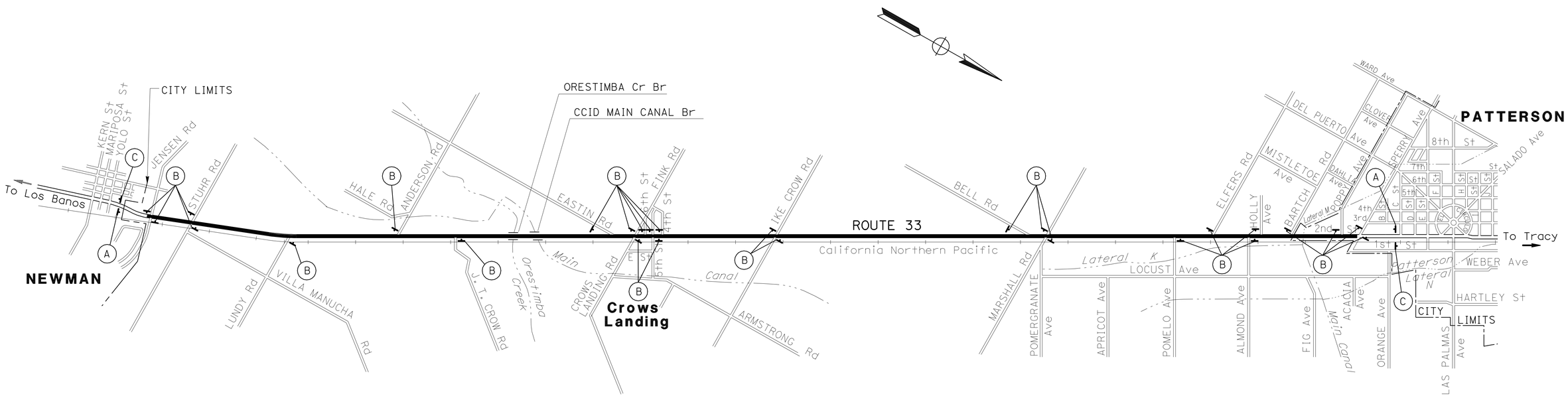

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	G20-1	60" x 36"	2 - 6" x 6"	2	ROAD WORK NEXT 11 MILES
B	W20-1	36" x 36"	1 - 4" x 4"	26	ROAD WORK AHEAD
C	G20-2	36" x 18"	1 - 4" x 6"	2	END ROAD WORK

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

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

CALCULATED-DESIGNED BY	JOSE A ALICEA II
CHECKED BY	THOA HUYNH
REVISED BY	JAA
DATE REVISED	10/13/11
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 00-00-00
DATE PLOTTED => 13-JAN-2012
TIME PLOTTED => 11:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	6	11

REGISTERED CIVIL ENGINEER 10/13/11 DATE

10/17/11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 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 ELECTRONIC COPIES OF THIS PLAN SHEET.

CONFORM TAPERS

LOCATION PM	LOCATION DESCRIPTION	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt SQYD	RHMA-G TON
1.58	Rte 33 (BEGIN CONSTRUCTION)	30'	40'	134	9
5.57	ORESTIMBA CREEK Br	100'	28'	312	21
5.57	ORESTIMBA CREEK Br	100'	28'	312	21
6.09	CCID MAIN CANAL Br	100'	28'	312	21
6.09	CCID MAIN CANAL Br	100'	28'	312	21
12.57	Rte 33 (END CONSTRUCTION)	30'	60'	200	14
			TOTAL	1582 *	107 *

ABBREVIATION

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

NOTES:

1. * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE
2. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

CONFORM TAPERS AT INTERSECTIONS

LOCATION PM	SIDE	DESCRIPTION	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt SQYD	HMA (TYPE A) TON
1.64	Rt	SHERMAN ROAD	25'	60'	167	12
1.64	Lt	JENSEN ROAD	30'	22'	74	5
2.06	Rt	STUHR ROAD	45'	43'	215	15
2.06	Lt	STUHR ROAD	35'	35'	137	10
3.15	Rt	LUNDY ROAD	45'	24'	120	9
4.35	Lt	ANDERSON ROAD	30'	40'	134	9
4.82	Rt	J.T. CROW ROAD	45'	22'	110	8
6.45	Lt	EASTIN ROAD	35'	76'	296	20
6.73	Rt	CROWS LANDING ROAD	45'	75'	375	26
6.73	Lt	FINK ROAD	65'	54'	390	27
6.84	Lt	6TH STREET	40'	30'	134	9
6.94	Rt	5TH STREET	35'	35'	137	10
6.94	Lt	5TH STREET	40'	35'	156	11
7.04	Lt	4TH STREET	30'	35'	117	8
7.91	Rt	IKE CROW ROAD	40'	35'	156	11
7.91	Lt	IKE CROW ROAD	30'	28'	94	7
10.23	Rt	MARSHALL ROAD	35'	30'	117	8
10.23	Lt	MARSHALL ROAD	30'	37'	124	9
11.18	Rt	POMELO AVENUE	35'	25'	98	7
11.40	Lt	ELFERS ROAD	35'	18'	70	5
11.68	Rt	ALMOND AVENUE	35'	25'	98	7
11.78	Lt	HOLLY AVENUE	30'	16'	54	4
11.97	Lt	BARTCH ROAD	35'	37'	144	10
12.37	Lt	POPPY AVENUE	30'	30'	100	7
DRIVEWAYS				3'		12
				TOTAL	3617 *	266 *

DIGOUTS

LOCATION PM / PM	SIDE	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt SQYD	HMA (TYPE A) TON
1.6 / 2.0	NB	200'	8'	178	30
2.0 / 3.0	NB	200'	8'	178	30
3.0 / 4.0	NB	200'	8'	178	30
4.0 / 5.0	NB	200'	8'	178	30
5.0 / 6.0	NB	200'	8'	178	30
6.0 / 7.0	NB	200'	8'	178	30
7.0 / 8.0	NB	200'	8'	178	30
8.0 / 9.0	NB	200'	8'	178	30
9.0 / 10.0	NB	200'	8'	178	30
10.0 / 11.0	NB	200'	8'	178	30
11.0 / 12.0	NB	200'	8'	178	30
12.0 / 12.6	NB	200'	8'	178	30
1.6 / 2.0	SB	200'	8'	178	30
2.0 / 3.0	SB	200'	8'	178	30
3.0 / 4.0	SB	200'	8'	178	30
4.0 / 5.0	SB	200'	8'	178	30
5.0 / 6.0	SB	200'	8'	178	30
6.0 / 7.0	SB	200'	8'	178	30
7.0 / 8.0	SB	200'	8'	178	30
8.0 / 9.0	SB	200'	8'	178	30
9.0 / 10.0	SB	200'	8'	178	30
10.0 / 11.0	SB	200'	8'	178	30
11.0 / 12.0	SB	200'	8'	178	30
12.0 / 12.6	SB	200'	8'	178	30
			TOTAL	4272 *	720 *

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	PLACE HMA (Misc. AREA)
	SQYD	TON				
PM 1.6/12.6			13,040	82	6286	
DIGOUTS	4272	720		3		
CONFORM TAPERS	1582		107	1		170
CONFORM TAPERS AT INTERSECTIONS	3617	266		2		
CONFORM TAPERS AT CURB & GUTTER	3054		205	1		
TOTAL	12,525	986	13,352	89	6286	170

CONFORM TAPERS AT CURB & GUTTER

LOCATION PM / PM	SIDE	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt SQYD	RHMA (GAP GRADED) TON
1.67 / 1.81	Lt	740'	5'	412	28
6.89 / 7.01	Lt	640'	12'	854	57
12.20 / 12.23	Lt	160'	12'	214	15
12.47 / 12.58	Lt	590'	24'	1574	105
			TOTAL	3054*	205*

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 10/13/11

LAST REVISION 00-00-00
DATE PLOTTED => 13-JAN-2012
TIME PLOTTED => 11:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Sta	33	1.6/12.6	7	11

REGISTERED CIVIL ENGINEER 2/13/11 DATE

10/17/11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 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.

PAVEMENT DELINEATION ITEMS

LOCATION	REMOVE THERMOPLASTIC PAVEMENT MARKING						THERMOPLASTIC PAVEMENT MARKING								
	LIMIT LINE	CROSS WALK (WHITE)	STOP	AHEAD	PED	XING	LIMIT LINE	CROSS WALK (WHITE)	STOP	AHEAD	PED	XING	RAILROAD XING SYMBOL	RAILROAD XING LIMIT LINE	TYPE V ARROW
	SQFT						SQFT								
PM 1.6/12.6	50	204	132	62	36	42	769	204	682	62	36	42	490	452	66
TOTAL	526						2803								

PAVEMENT DELINEATION ITEMS

LOCATION	REMOVE YELLOW THERMO-PLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)			REMOVE THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)							REMOVE PAVEMENT MARKER (N)	PAVEMENT MARKER (RETROREFLECTIVE)					
	4" YELLOW			8" WHITE	4" WHITE		8" WHITE	4" YELLOW					TYPE D				TYPE G	TYPE H
	Det 19	Det 22	Det 29	Det 38	Det 27B	Det 27C	Det 38	Det 6	Det 19	Det 22	Det 29		Det 6	Det 19	Det 22	Det 29	Det 38	Det 19
	LF			LF	LF							EA	EA					
PM 1.6/12.6	17,636	14,782	1268	2132	116,371	3525	1066	41,658	8818	8271	634	2436	876	200	718	28	52	562
TOTAL	33,686			2132	180,343								2436					

SUMMARY OF QUANTITIES

Q-2

REVISED BY	JAA
DATE REVISED	10/13/11
JOSE A ALICEA II	
THOA HUYNH	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
ALVIN MANGINDIN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 13-JAN-2012 | TIME PLOTTED => 11:06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Sta	33	1.6/12.6	8	11

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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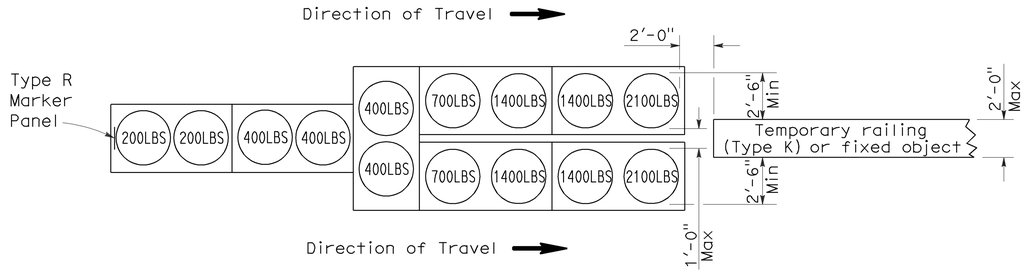
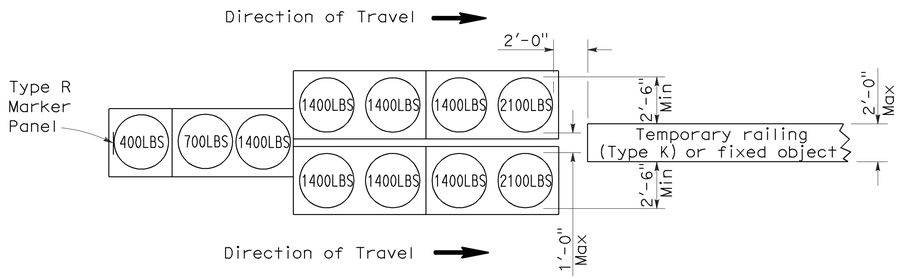
To accompany plans dated 10/17/11



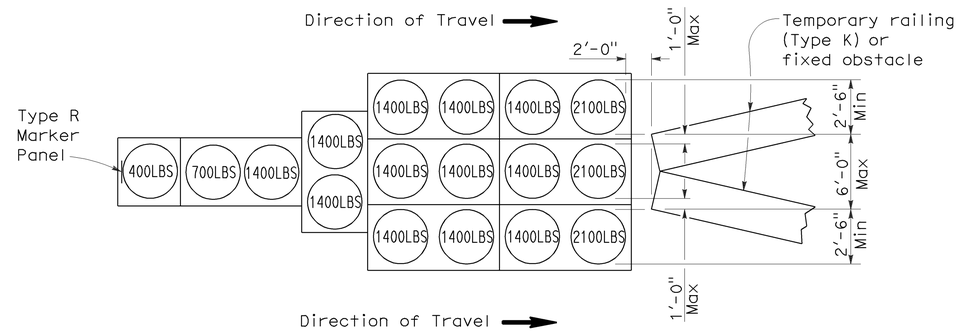
ARRAY 'TU14'

Approach speed 45 mph or more



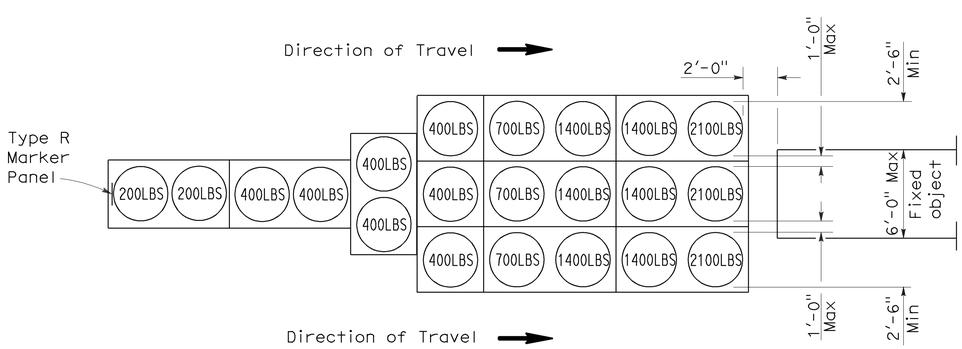
ARRAY 'TU11'

Approach speed less than 45 mph



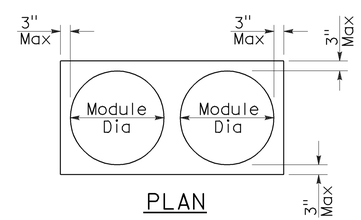
ARRAY 'TU17'

Approach speed less than 45 mph

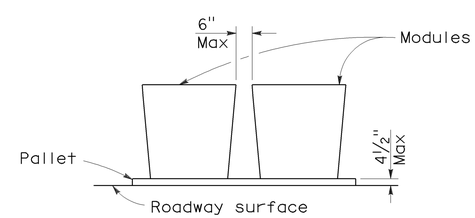


ARRAY 'TU21'

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Sta	33	1.6/12.6	9	11

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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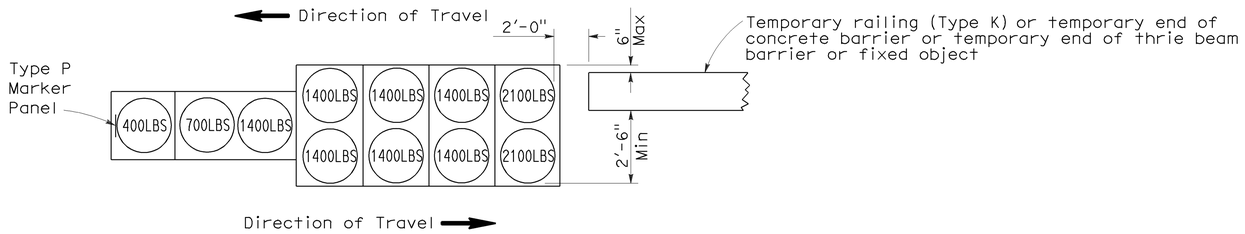
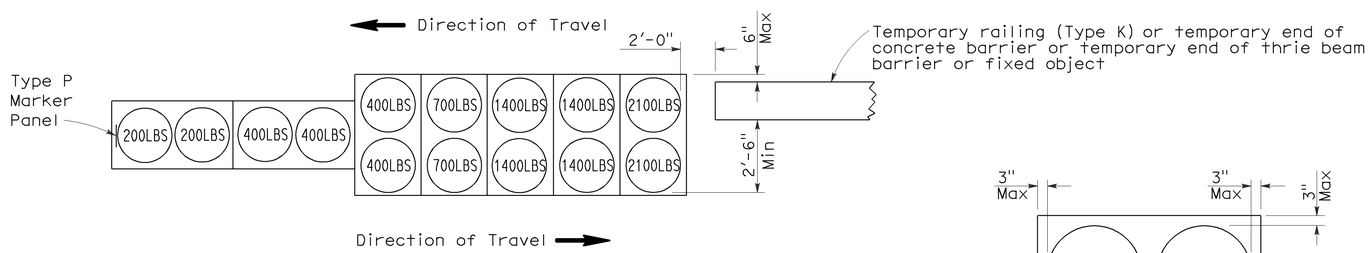
To accompany plans dated 10/17/11



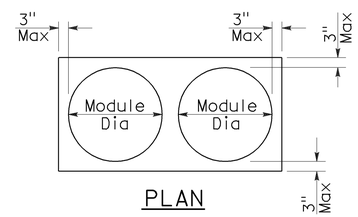
ARRAY 'TB11'

Approach speed less than 45 mph

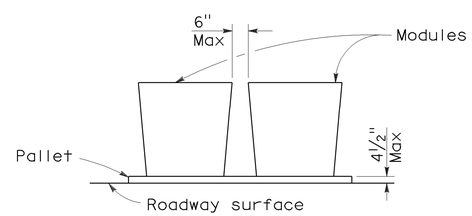


ARRAY 'TB14'

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
10	Sta	33	1.6/12.6	10	11

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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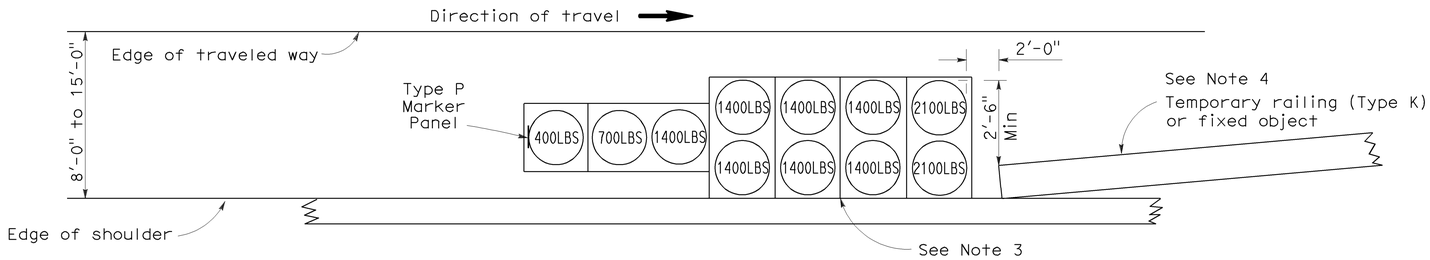
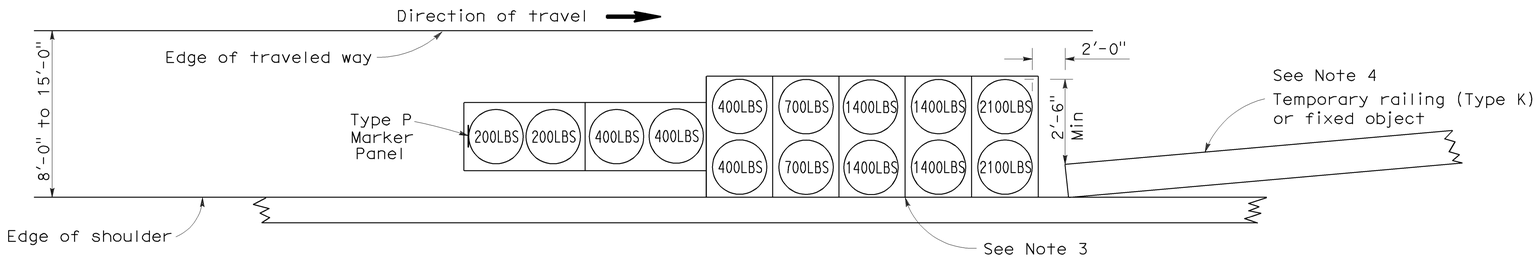
To accompany plans dated 2/17/11



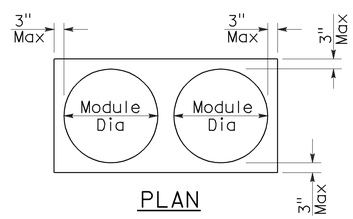
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

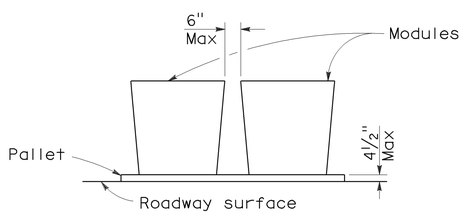


ARRAY 'TS14'

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
10	Sta	33	1.6/12.6	11	11

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

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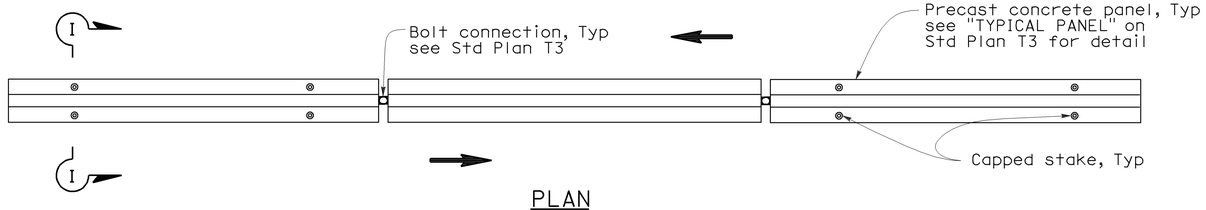
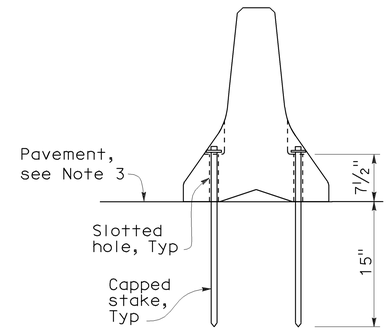
To accompany plans dated 10/17/11



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

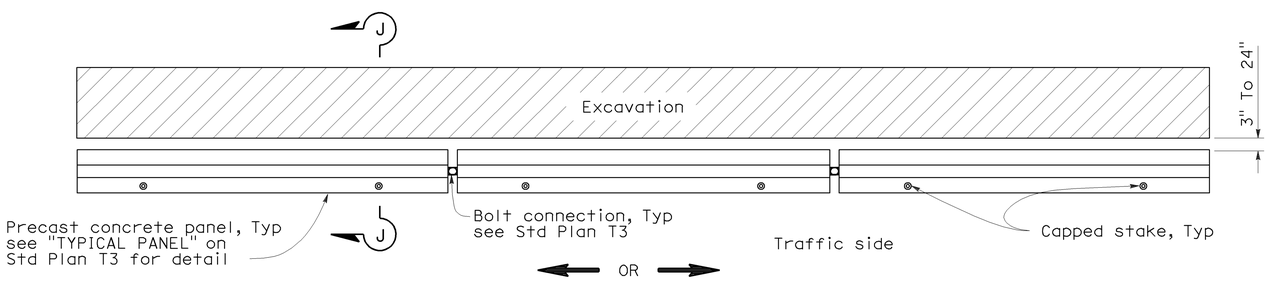
See Note 1



SECTION I-I

NOTES:

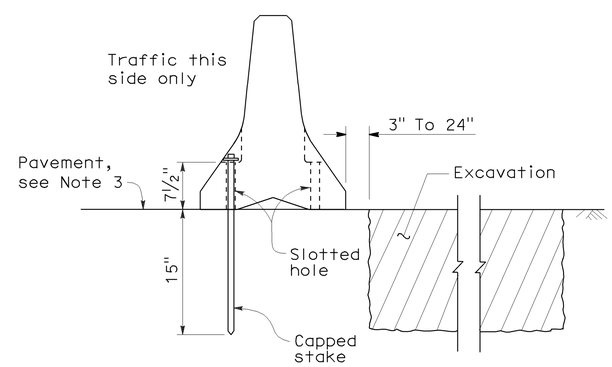
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



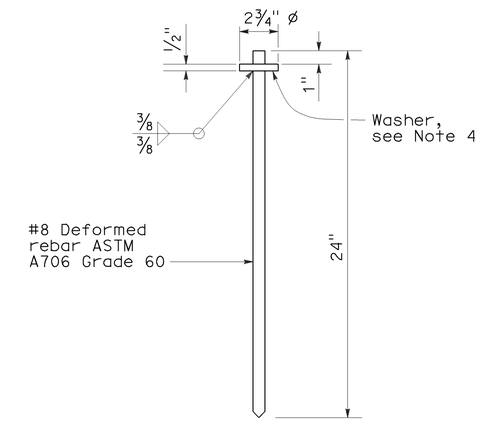
PLAN

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