Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las	395	128.7/131.0	1	9

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION AREA SIGNS
4	PAVEMENT DELINEATION DETAILS AND QUANTITES
5	SUMMARY OF QUANTITIES
6-9	NEW AND REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

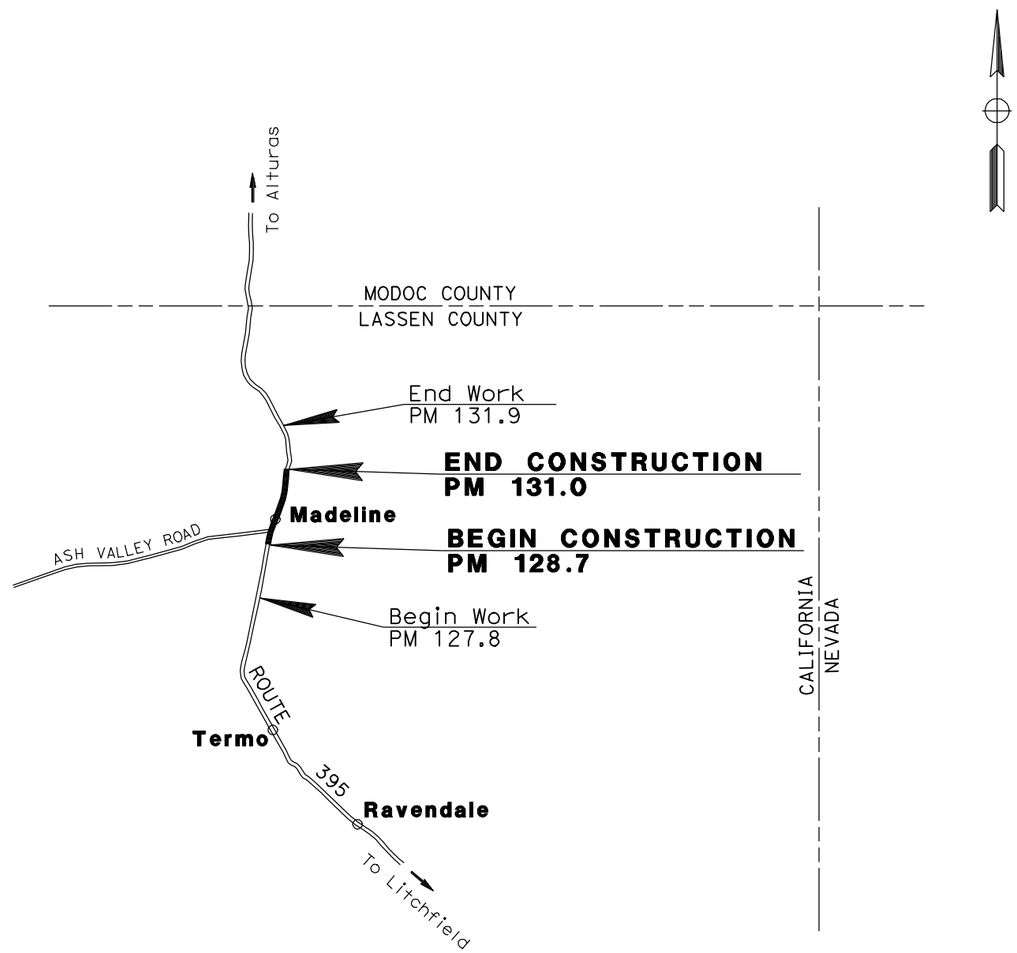
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN LASSEN COUNTY AT AND NEAR MADELINE FROM 0.5 MILE SOUTH TO 1.8 MILES NORTH OF ASH VALLEY ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



NO SCALE

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

Scott C. Gregory 01-05-12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 5, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-12 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.

CONTRACT No.	**02-3E9504**
PROJECT ID	**0200020218**

LAST REVISION 01-05-12

DATE PLOTTED => 06-JAN-2012
TIME PLOTTED => 14:51

DESIGN ENGINEER	PROJECT MANAGER
LANCE BROWN	LANCE BROWN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las	395	128.7/131.0	2	9

REGISTERED CIVIL ENGINEER 01-05-12 DATE

01-05-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA

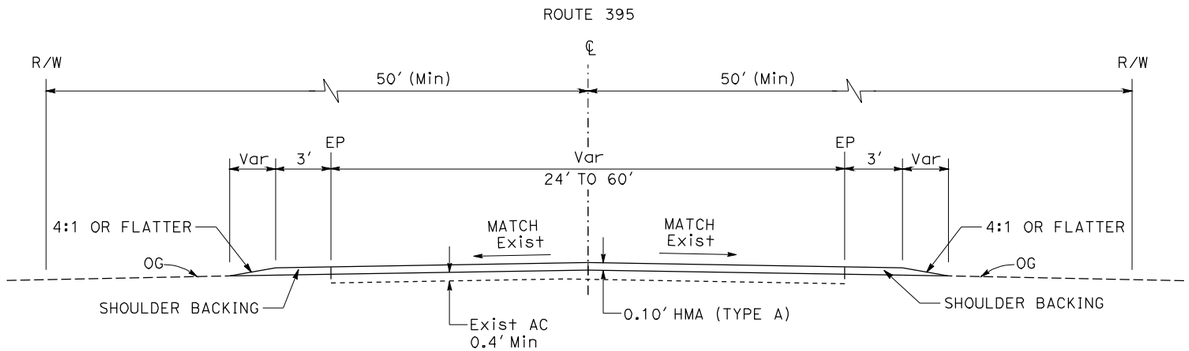
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. ACTUAL LOCATIONS OF REPLACE ASPHALT CONCRETE SURFACING TO BE DETERMINED BY THE ENGINEER.
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

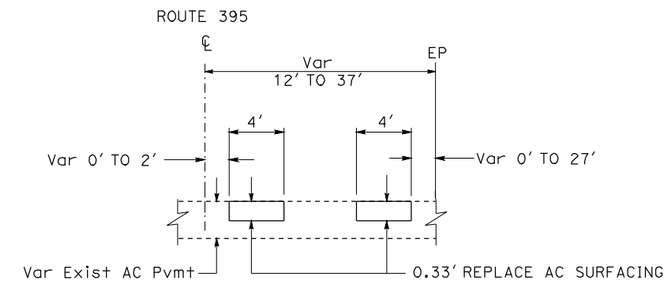
LEGEND:

COLD PLANE AC PAVEMENT (0.00′ TO 0.10′)



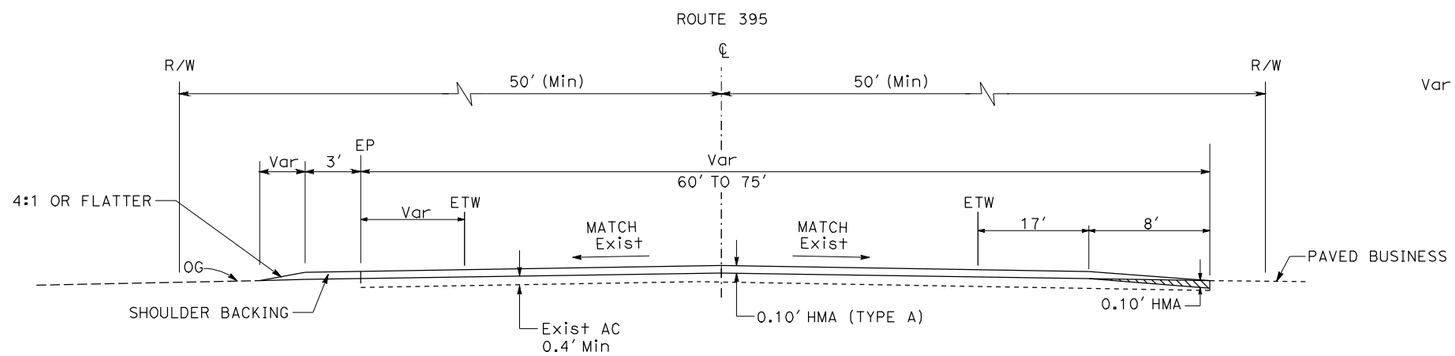
TYPICAL CROSS SECTION

PM 128.7 TO 129.02
PM 129.08 TO 131.00



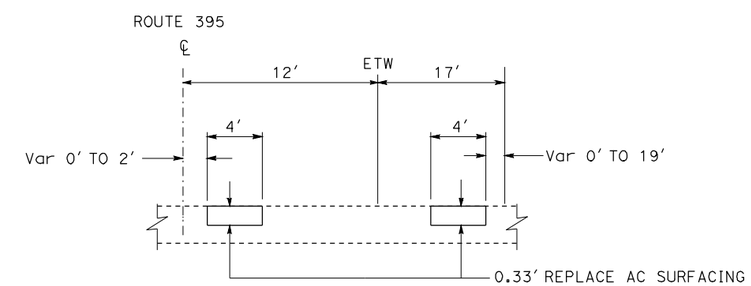
REPLACE AC SURFACING

PM 128.7 TO 129.02 (TYPICAL BOTH DIRECTIONS)
PM 129.02 TO 129.08 (SOUTHBOUND ONLY)
PM 129.08 TO 131.00 (TYPICAL BOTH DIRECTIONS)



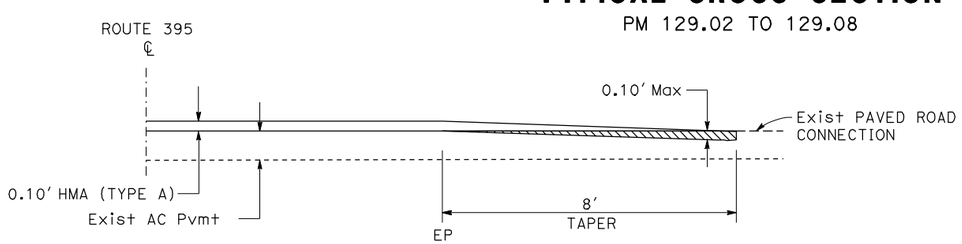
TYPICAL CROSS SECTION

PM 129.02 TO 129.08

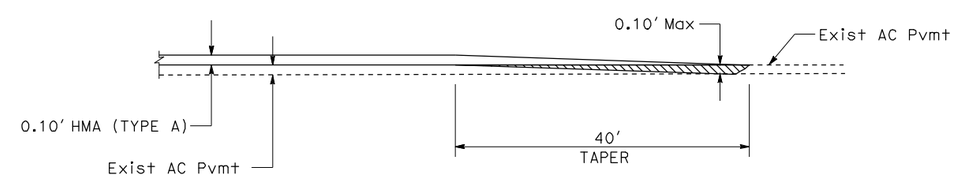


REPLACE AC SURFACING

PM 129.02 TO 129.08 (NORTHBOUND ONLY)



PAVED ROAD CONNECTION CONFORM TAPER



MAINLINE CONFORM TAPER

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY	DATE REVISED
SCOTT GREGORY	DENISE FUZERE
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-14-11 | DATE PLOTTED => 06-JAN-2012 | TIME PLOTTED => 14:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las	395	128.7/131.0	3	9

REGISTERED CIVIL ENGINEER 01-05-12 DATE

01-05-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-12 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.

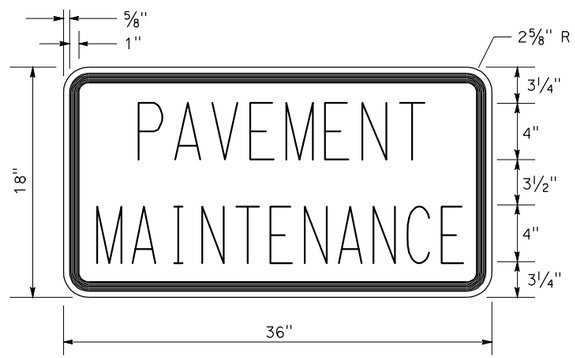
NOTES:

1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
3. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

LEGEND:

ONE POST STATIONARY MOUNTED SIGN.

DIRECTION OF TRAFFIC



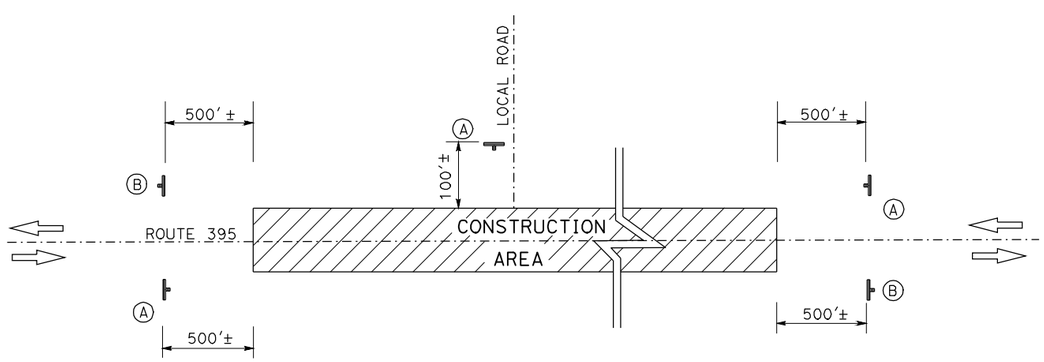
C23B(CA) SIGN PANEL DETAIL

ROAD CONNECTIONS

PM	DESCRIPTION
129.03	MAIN St - Rt AND Lt
129.08	CLARKS VALLEY Rd - Rt
129.08	LASSEN Rd - Lt
129.20	ASH VALLEY Rd - Lt

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

TYPE	CODE	PANEL SIZE	SIGN MESSAGE	No. AND SIZE OF POST	No. OF SIGNS
A	W20-1 C23B(CA)	48" x 48" 36" x 18"	ROAD WORK AHEAD "PAVEMENT MAINTENANCE"	1- 4" x 6"	7
B	G20-2	36" x 18"	END ROAD WORK	1- 4" x 4"	2



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY	DATE REVISED
SCOTT GREGORY	DENISE FUZERE
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-14-11 | DATE PLOTTED => 06-JAN-2012 TIME PLOTTED => 14:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las	395	128.7/131.0	4	9

REGISTERED CIVIL ENGINEER 01-05-12 DATE

01-05-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-12 CIVIL STATE OF CALIFORNIA

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NOTE:

1. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

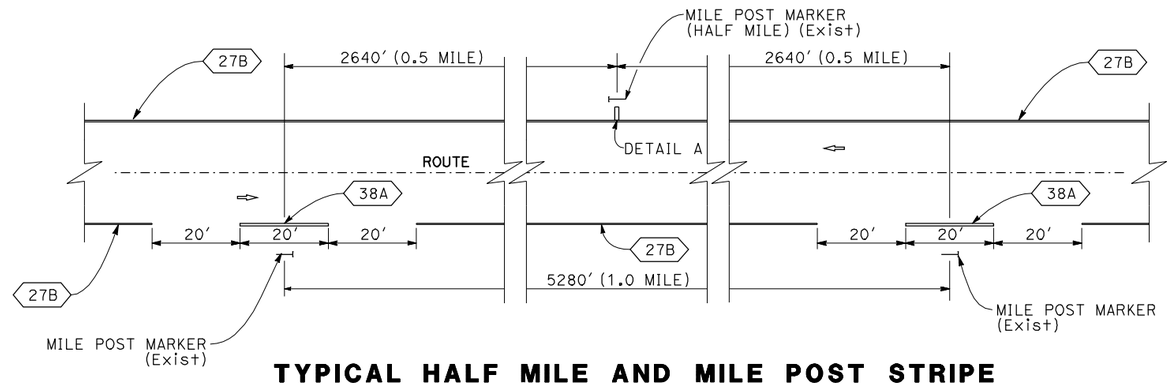
LEGEND:

⇨ DIRECTION OF TRAFFIC

⟨-⟩ TRAFFIC STRIPE DETAIL No.

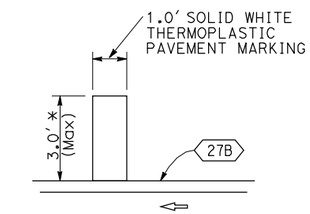
PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)

POST MILE LIMITS	TYPE D
	EA
128.7/131.0	971
TOTAL	971



TYPICAL HALF MILE AND MILE POST STRIPE

NO HALF MILE STRIPE WITHIN AN EQUATION

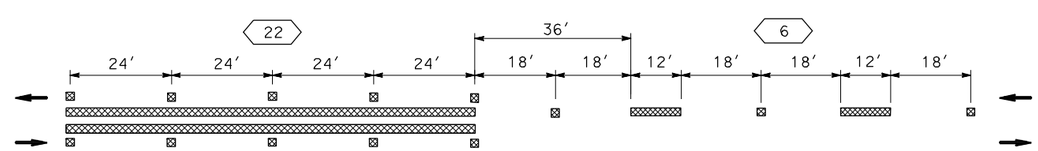


DETAIL A

* ACTUAL LENGTH MAY VARY DUE TO PAVEMENT WIDTH

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

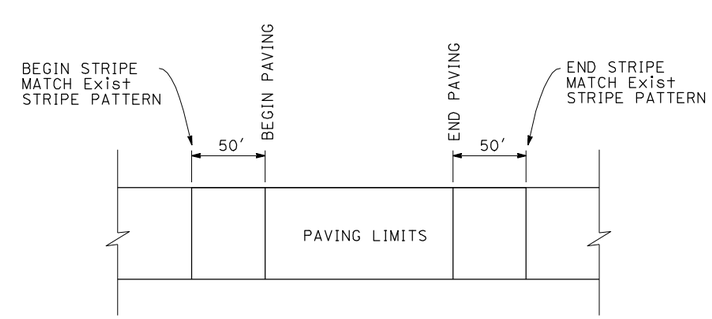
POST MILE LIMITS	DETAIL 6	DETAIL 22	DETAIL 27B	DETAIL 27C	DETAIL 38A
	LF	LF	LF	LF	LF
128.7/131.0	713	11,432	23,734	405	50
TOTAL	36,334				



TYPICAL STRIPE TRANSITION DETAILS

THERMOPLASTIC PAVEMENT MARKING

PM	L†	R†	EA	SQFT	REMARKS
129.03		X	1	47	LIMIT LINE
129.03		X	1	22	STOP
129.03	X		1	47	LIMIT LINE
129.03	X		1	22	STOP
129.08		X	1	43	LIMIT LINE
129.08		X	1	22	STOP
129.08	X		1	40	LIMIT LINE
129.08	X		1	22	STOP
129.20	X		1	33	LIMIT LINE
129.20	X		1	22	STOP
129.50	X		1	3	DETAIL A
130.50	X		1	3	DETAIL A
TOTAL				326	



TRAFFIC STRIPE MATCH DETAIL

PAVEMENT DELINEATION DETAILS AND QUANTITIES

PDQ-1

REVISED BY	DATE REVISED
SCOTT GREGORY	DENISE FUZERE
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-14-11 | DATE PLOTTED => 06-JAN-2012 | TIME PLOTTED => 14:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las	395	128.7/131.0	5	9

REGISTERED CIVIL ENGINEER 01-05-12 DATE

01-05-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SCOTT C. GREGORY No. C75565 Exp. 06-30-12 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.

NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. * ACTUAL LOCATIONS OF REPLACE ASPHALT CONCRETE SURFACING TO BE DETERMINED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

ROADWAY QUANTITIES

POST MILE LIMITS	(N) LENGTH	(N) WIDTH	HOT MIX ASPHALT (TYPE A)	TACK COAT	SHOULDER BACKING
PM - PM	LF	LF	TON	TON	TON
128.70-128.75	264.0	32			
128.75-128.95	1056.0	32-33			
128.95-128.98	158.4	33-60			
128.98-129.06	422.4	60-75			
129.06-129.10	211.2	75-40			
129.10-129.15	264.0	40-27			
129.15-129.20	264.0	27			
129.20-129.36	844.8	27-26	2669	11.2	925
129.36-129.47	580.8	26			
129.47-129.66	1003.2	26-28			
129.66-129.68	105.6	28-35			
129.68-129.71	158.4	35-27			
129.71-129.97	1372.8	27-26			
129.97-130.01	211.2	26-24			
130.01-131.00	5227.2	24			
		TOTAL	2669	11.2	925

REPLACE ASPHALT CONCRETE SURFACING

POST MILE LIMITS	(N) Approx No. OF DIGOUTS	(N) LENGTH Avg	(N) WIDTH	(N) DEPTH	* REPLACE ASPHALT CONCRETE SURFACING
PM - PM		LF	LF	LF	CY
128.7-131.0	52	100	4	0.33	254
				TOTAL	254

COLD PLANE ASPHALT CONCRETE PAVEMENT

POST MILE LIMITS	(N) LENGTH	(N) WIDTH	AREA	REMARKS
	LF	LF	SQYD	
128.7	40	32	142	MAINLINE CONFORM TAPER
129.02-129.08	8	335	298	PARKING AREA/PAVED ROAD CONNECTION CONFORM TAPER - R†
129.03	8	73	65	PAVED ROAD CONNECTION CONFORM TAPER - L†
129.08	8	90	80	PAVED ROAD CONNECTION CONFROM TAPER - L†
129.20	8	87	77	PAVED ROAD CONNECTION CONFORM TAPER - L†
131.00	40	24	107	MAINLINE CONFORM TAPER
		TOTAL	769	

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
SCOTT GREGORY | DENISE FUZERE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 12-14-11 | DATE PLOTTED => 06-JAN-2012 | TIME PLOTTED => 14:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Las	395	128.7/131.0	6	9

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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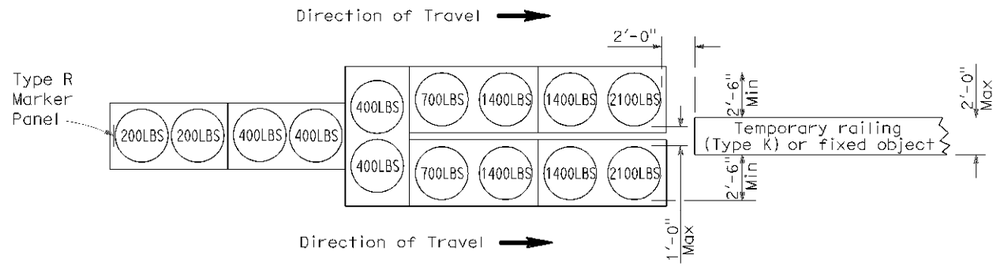
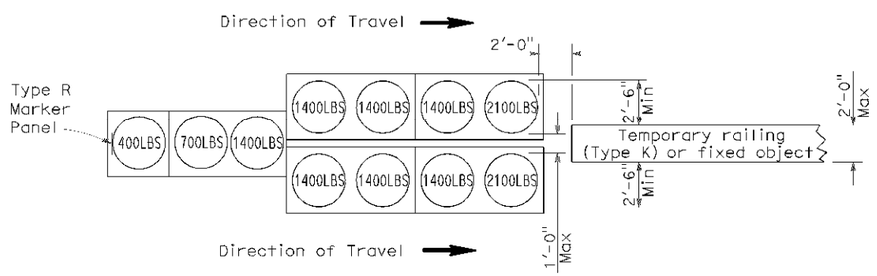
To accompany plans dated 01-05-12



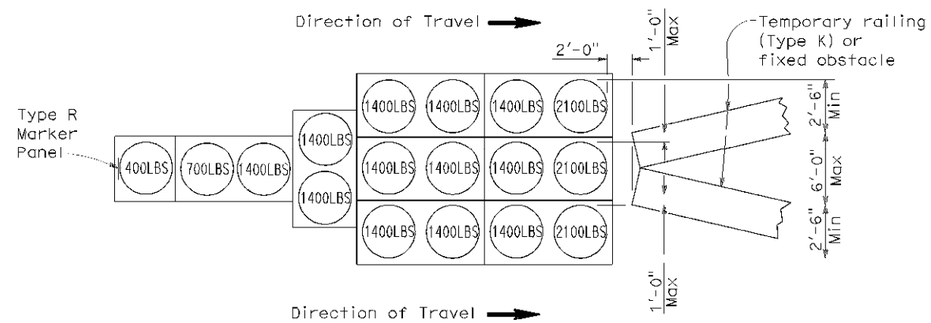
ARRAY 'TU14'

Approach speed 45 mph or more



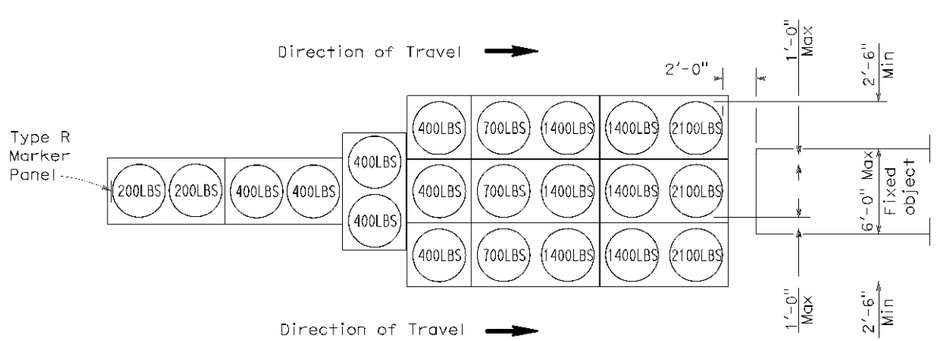
ARRAY 'TU11'

Approach speed less than 45 mph



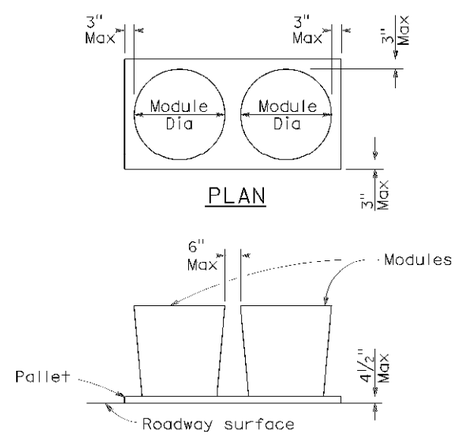
ARRAY 'TU17'

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

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5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Las	395	128.7/131.0	7	9

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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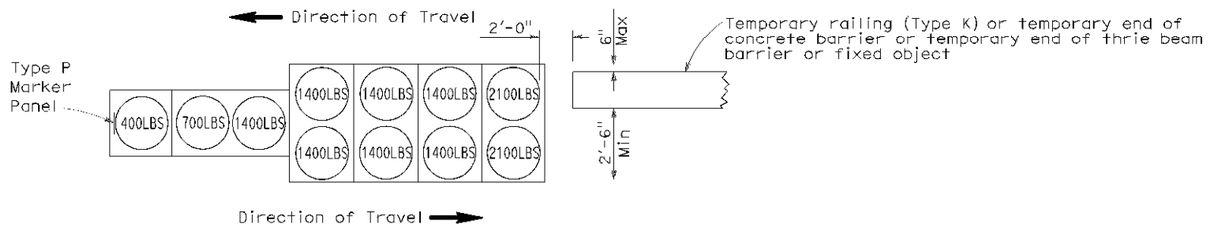
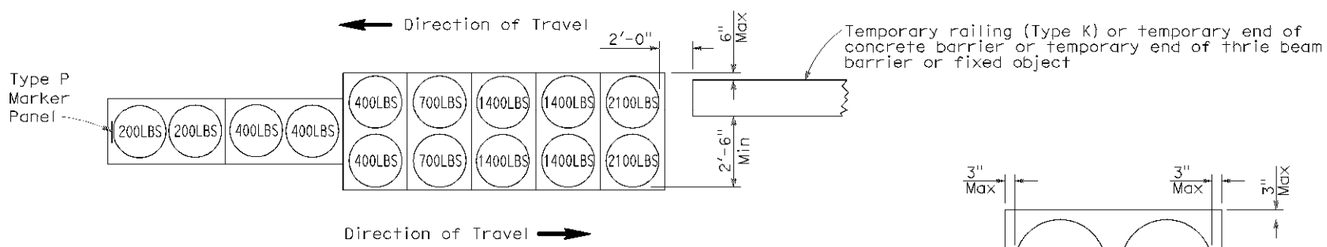
To accompany plans dated 01-05-12



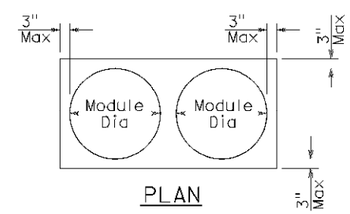
ARRAY 'TB11'

Approach speed less than 45 mph

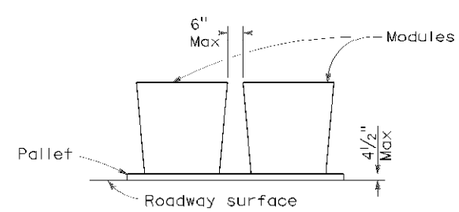


ARRAY 'TB14'

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

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5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Las	395	128.7/131.0	8	9

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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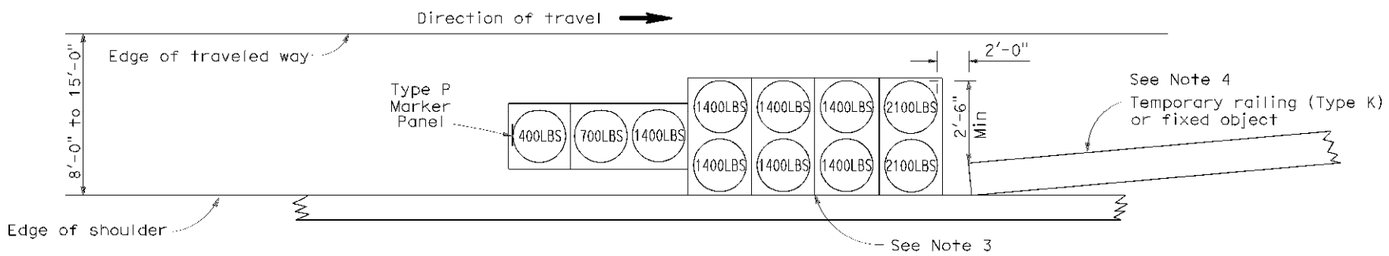
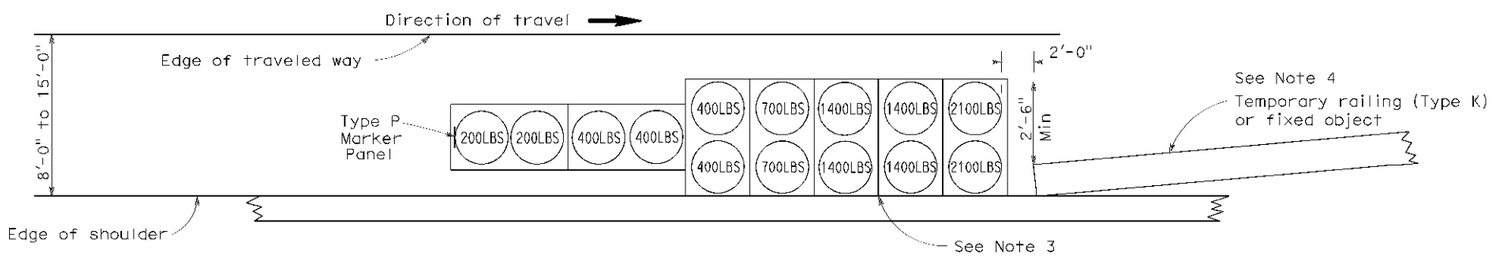
To accompany plans dated 01-05-12



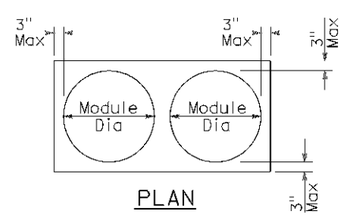
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

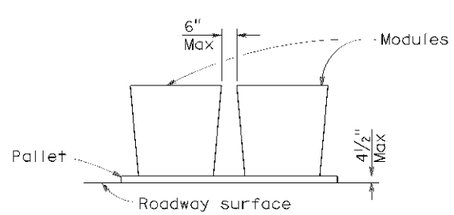


ARRAY 'TS14'

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

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5-15-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las	395	128.7/131.0	9	9

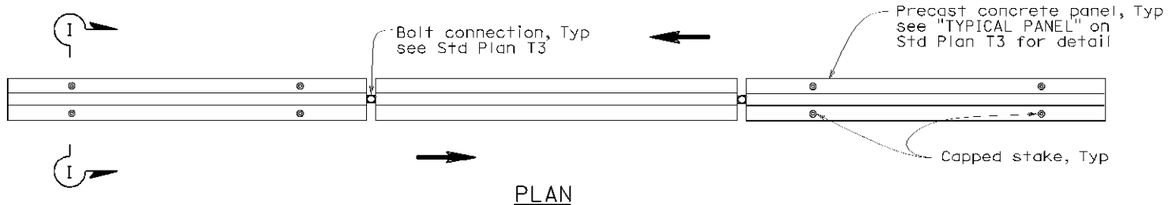
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

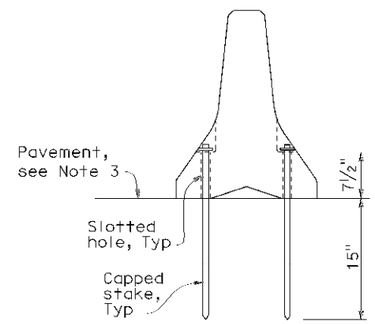
To accompany plans dated 01-05-12



PLAN

RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC

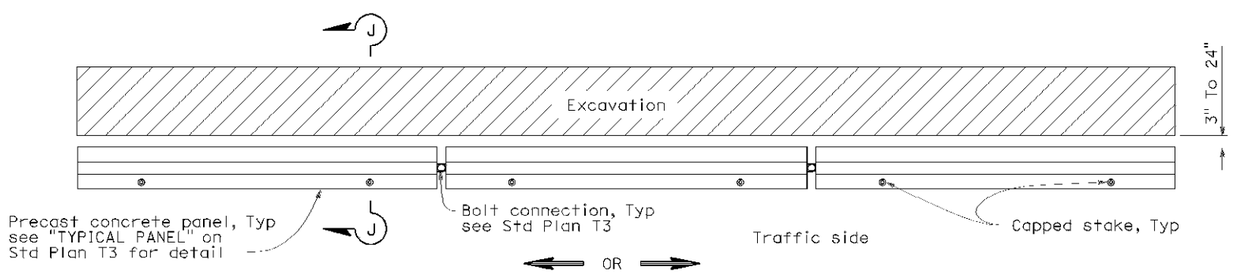
See Note 1



SECTION I-I

NOTES:

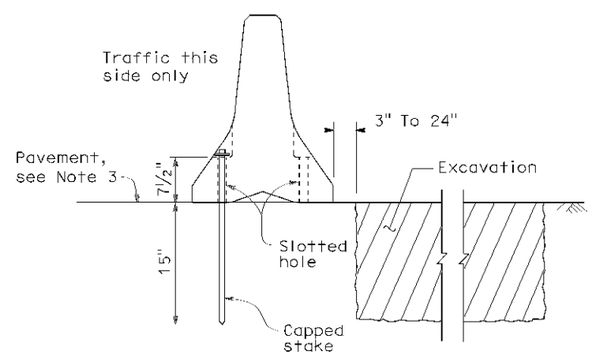
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



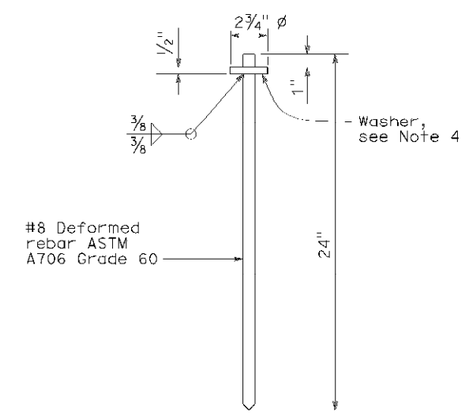
PLAN

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

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8-31-10