Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8 8.9/12.0	1	14

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5	PAVEMENT DELINEATION DETAILS AND QUANTITIES
6	SUMMARY OF QUANTITIES
7	TRAFFIC MONITORING STATION
8-14	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

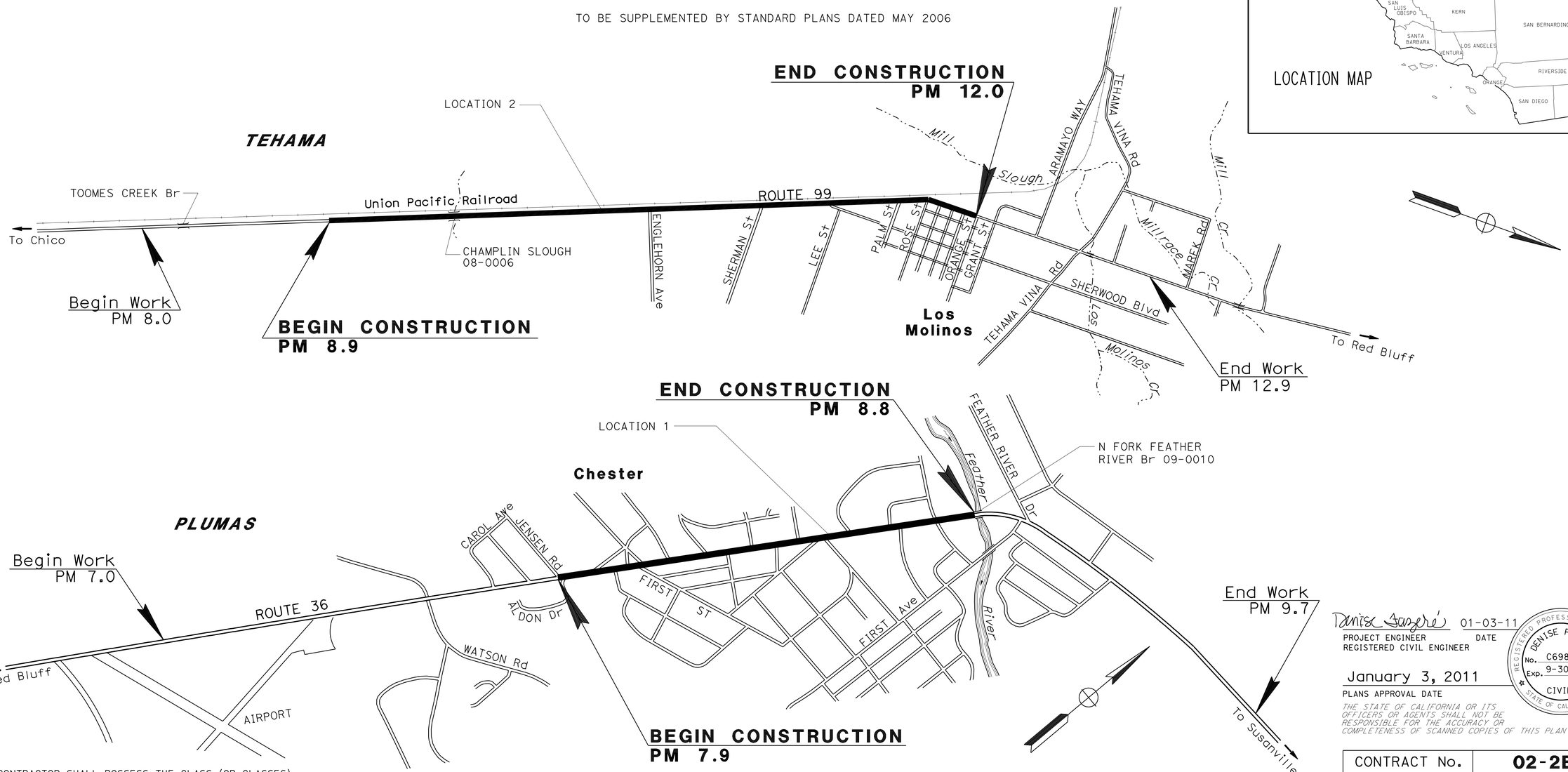
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN PLUMAS AND TEHAMA COUNTIES ON ROUTE 36 FROM JENSEN ROAD TO NORTH FORK FEATHER RIVER BRIDGE AND ON ROUTE 99 FROM 0.5 MILE NORTH OF TOOMES CREEK BRIDGE TO ORANGE STREET

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."

Denise Fuzeré 01-03-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

January 3, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DENISE FUZERE No. C69865 Exp. 9-30-12 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.	02-2E7004
PROJECT ID	0200000596

PROJECT MANAGER: LANCE BROWN
DESIGN ENGINEER: LANCE BROWN

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	2	14

Denise Fuzere 01-03-11
REGISTERED CIVIL ENGINEER DATE

01-03-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DENISE FUZERE No. C69865 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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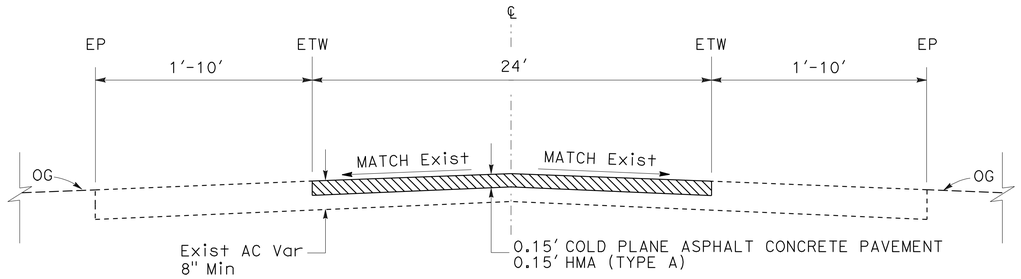
NOTES:

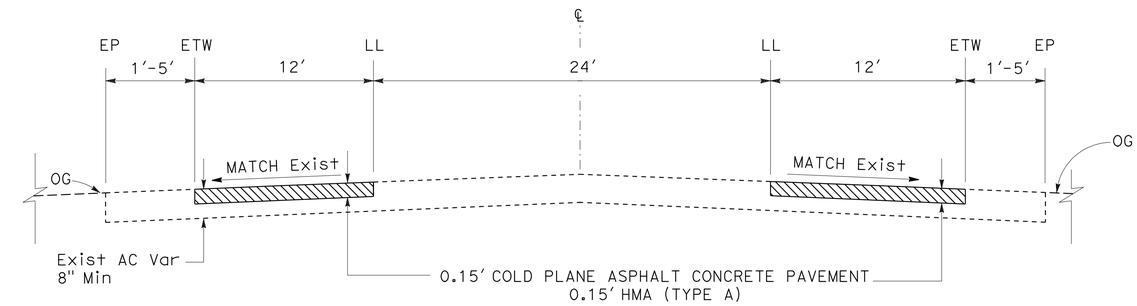
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DETERMINED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY LOCATED, AND HAVE NOT BEEN PLOTTED ON PORTIONS OF THESE PLANS.
4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
5. DO NOT PAVE BRIDGE DECKS.

LEGEND

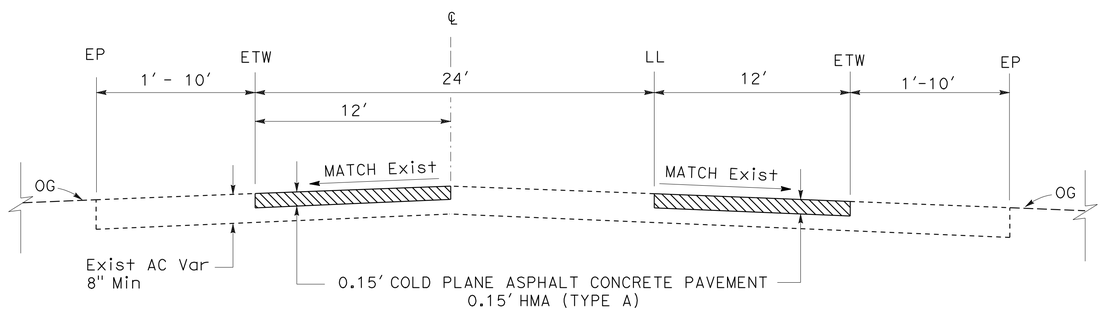
COLD PLANE AC PAVEMENT



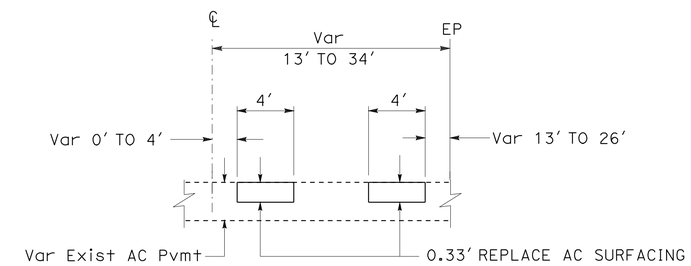
TYPICAL SECTION
LOCATION 1
Plu-36-7.90/8.14



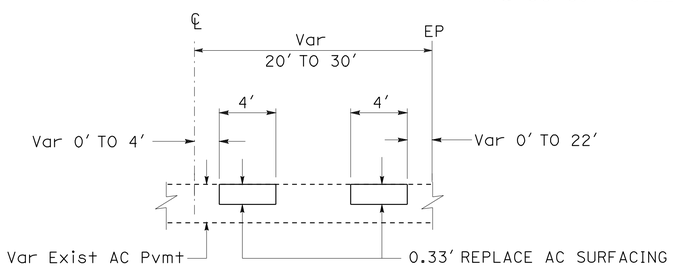
TYPICAL SECTION
LOCATION 1
Plu-36-8.22/8.80



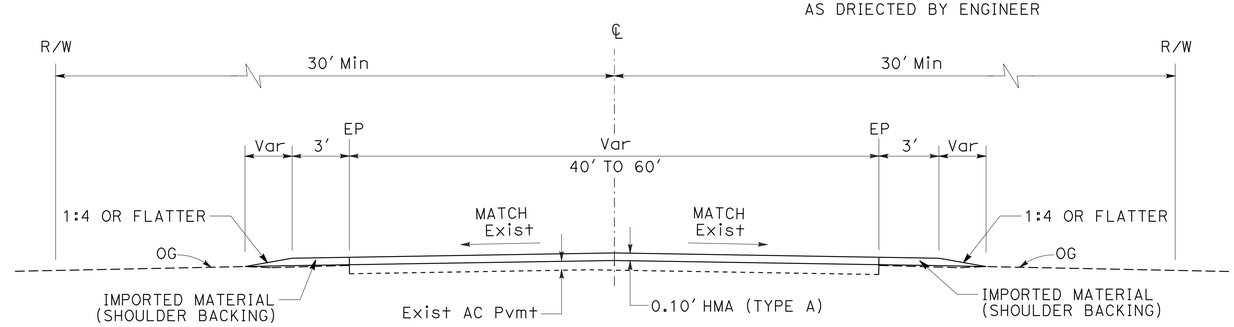
TYPICAL SECTION
LOCATION 1
Plu-36-8.14/8.22



REPLACE AC SURFACING
(TYPICAL BOTH DIRECTIONS)
LOCATION 1
NON COLD PLANED SECTIONS ONLY
AS DRIECTED BY ENGINEER



REPLACE AC SURFACING
(TYPICAL BOTH DIRECTIONS)
LOCATION 2



TYPICAL CROSS SECTION
LOCATION 2
Teh-99-8.9/12.0

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
DENISE FUZERE | KARLIE J. SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	3	14

Denise Fuzere 01-03-11
REGISTERED CIVIL ENGINEER DATE

01-03-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DENISE FUZERE No. C69865 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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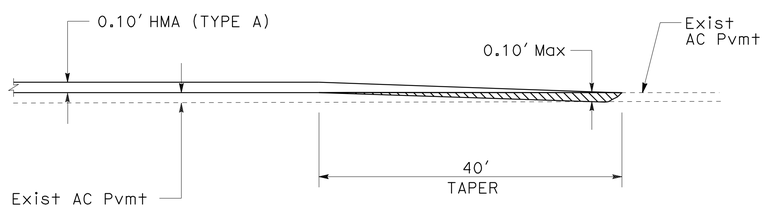
NOTES:

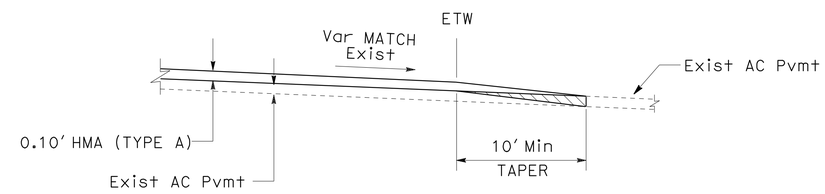
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN POSITIVELY LOCATED, AND HAVE NOT BEEN PLOTTED ON PORTIONS OF THESE PLANS.
2. DO NOT PAVE BRIDGE DECKS.

LEGEND

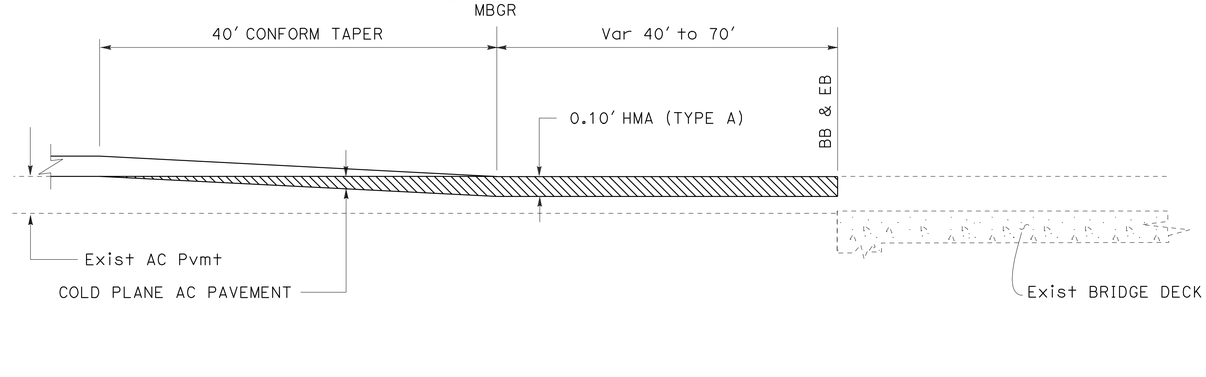
COLD PLANE AC PAVEMENT



MAINLINE CONFORM TAPER
Teh-99-8.9/12.0



CONFORM TAPER FOR PAVED ROAD CONNECTIONS
Teh-99-8.9/12.0



BRIDGE CONFORM TAPER
Teh-99-9.14/9.15

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: LANCE BROWN
CALCULATED-DESIGNED BY: DENISE FUZERE
CHECKED BY: KARLIE J. SMITH
REVISED BY / DATE REVISED

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	4	14

Denise Fuzere 01-03-11
REGISTERED CIVIL ENGINEER DATE

01-03-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DENISE FUZERE No. C69865 Exp. 9-30-12 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.

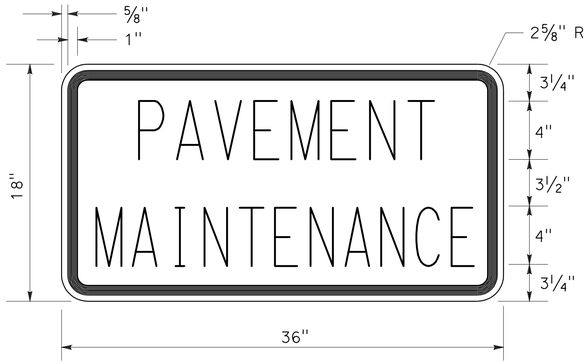
NOTES:

1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.

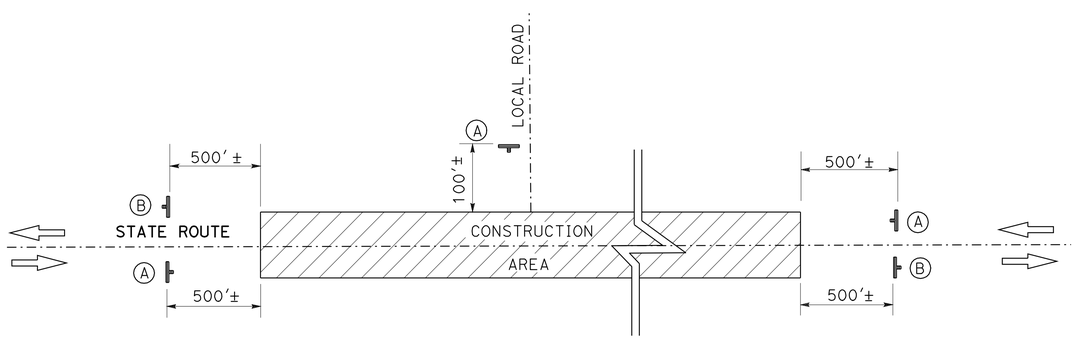
LEGEND

ONE POST STATIONARY MOUNTED SIGN

DIRECTION OF TRAVEL



C23B SIGN PANEL DETAIL



CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

TYPE	CODE	PANEL SIZE	SIGN MESSAGE	NUMBER 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"	31
B	G20-2	36" x 18"	END ROAD WORK	1-4" X 4"	2

ROAD CONNECTIONS

LOCATION	Co-Rte	PM	DESCRIPTION
1	Plu-36	7.91	JENSEN Rd Lt
		7.94	ALDON Dr Rt
		8.03	FARRAR Dr Rt
		8.07	CHATEAU Way Lt
		8.09	FIRST St Rt
		8.15	COLLINS Dr Lt
		8.24	GLENWOOD Dr Lt
		8.28	IRWIN WAY Rt
		8.34	RIVERWOOD Dr Lt
		8.39	ALLEY Rt
		8.44	ALLEY/REYNOLDS Lt
		8.48	MARTIN WAY Rt
		8.49	ASPEN St Rt
		8.55	MEADOW Rd Lt
		8.64	WILLOW WAY Lt
		8.67	MYRTLE St Rt
		8.75	WILLOW St Rt, Lt
2	Teh-99	10.73	ENGLEHORN Ave Rt
		11.18	SHERMAN St Rt
		11.34	SHERWOOD Blvd Rt
		11.71	PALM St Rt
		11.78	ROSE St Rt
		11.84	SOUTH CENTER St Rt
		11.88	NORTH CENTER St Rt
		11.98	JOSEPHINE St Rt
		12.04	ORANGE St Lt, Rt

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY | DATE REVISED
DENISE FUZERE | KARLIE J. SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
LANCE BROWN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	5	14

Denise Fuzere 01-03-11
REGISTERED CIVIL ENGINEER DATE

01-03-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DENISE FUZERE No. C69865 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND

⇨ Dir OF TRAFFIC

ABBREVIATIONS;

Mid MIDDLE

THERMOPLASTIC PAVEMENT MARKING

Loc	PM	L+	Mid	R+	EA	SQFT	REMARKS
1	8.26	X			1	15.0	TYPE VI ARROW
	8.26			X	2	46.0	SLOW (YELLOW)
	8.27			X	2	70.0	SCHOOL (YELLOW)
	8.27	X			1	15.0	TYPE VI ARROW
	8.28			X	2	42.0	XING (YELLOW)
	8.28	X			1	15.0	TYPE VI ARROW
	8.31		X		1	206.0	CROSSWALK (YELLOW)
	8.34	X			2	42.0	XING (YELLOW)
	8.36	X			2	70.0	SCHOOL (YELLOW)
	8.37			X	2	46.0	SLOW (YELLOW)
	8.45			X	2	46.0	SLOW (YELLOW)
	8.46			X	2	36.0	PED (YELLOW)
	8.47			X	2	42.0	XING (YELLOW)
	8.48			X	1	152.0	CROSSWALK (YELLOW)
	8.55		X		1	179.0	CROSSWALK (YELLOW)
	8.62	X			2	42.0	XING (YELLOW)
	8.63	X			2	36.0	PED (YELLOW)
	8.64	X			2	46.0	SLOW (YELLOW
	8.79		X		1	224.0	CROSSWALK
	8.80			X	1	15.0	TYPE VI ARROW
	8.81			X	1	15.0	TYPE VI ARROW
	8.83			X	1	15.0	TYPE VI ARROW
	8.85			X	1	15.0	TYPE VI ARROW
2	9.50			X	1	3.0	DETAIL A
	10.50			X	1	3.0	DETAIL A
	11.50			X	1	3.0	DETAIL A
	11.72		X		1	15.0	TYPE IV (L) ARROW
	11.73		X		1	15.0	TYPE IV (L) ARROW
	11.78			X	1	20.0	LIMIT LINE
	11.79		X		1	15.0	TYPE IV (L) ARROW
	11.86		X		1	15.0	TYPE IV (L) ARROW
	11.87		X		1	64.0	CROSSWALK
	11.88		X		1	15.0	TYPE IV (L) ARROW
	11.91		X		1	15.0	TYPE IV (L) ARROW
	11.92		X		1	64.0	CROSSWALK
	11.92		X		1	15.0	TYPE IV (L) ARROW
	11.97		X		1	15.0	TYPE IV (L) ARROW
	11.98		X		1	64.0	CROSSWALK
	11.99			X	1	20.0	LIMIT LINE
	11.99			X	1	15.0	TYPE IV (L) ARROW
	12.00		X		2	30.0	TYPE IV (L) ARROW
TOTAL						1836.0	

REMOVE THERMOPLASTIC PAVEMENT MARKING

Loc	PM	L+	Mid	R+	EA	SQFT	REMARKS
1	8.26	X			1	15.0	TYPE VI ARROW
	8.27	X			1	15.0	TYPE VI ARROW
	8.28	X			1	15.0	TYPE VI ARROW
	8.79		X		1	224.0	CROSSWALK
	8.80			X	1	15.0	TYPE VI ARROW
	8.81			X	1	15.0	TYPE VI ARROW
	8.83			X	1	15.0	TYPE VI ARROW
	8.85			X	1	15.0	TYPE VI ARROW
2	11.72		X		1	15.0	TYPE IV (L) ARROW
	11.73		X		1	15.0	TYPE IV (L) ARROW
	11.78			X	1	20.0	LIMIT LINE
	11.79		X		1	15.0	TYPE IV (L) ARROW
	11.86		X		1	15.0	TYPE IV (L) ARROW
	11.87		X		1	64.0	CROSSWALK
	11.88		X		1	15.0	TYPE IV (L) ARROW
	11.91		X		1	15.0	TYPE IV (L) ARROW
	11.92		X		1	64.0	CROSSWALK
	11.92		X		1	15.0	TYPE IV (L) ARROW
	11.97		X		1	15.0	TYPE IV (L) ARROW
	11.98		X		1	64.0	CROSSWALK
	11.99			X	1	20.0	LIMIT LINE
	11.99			X	1	15.0	TYPE IV (L) ARROW
	12.00		X		2	30.0	TYPE IV (L) ARROW
TOTAL						726.0	

REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING

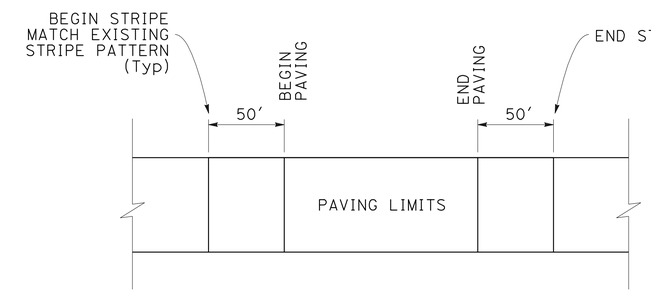
Loc	PM	L+	Mid	R+	EA	SQFT	REMARKS
1	8.26			X	2	46.0	SLOW (YELLOW)
	8.27			X	2	70.0	SCHOOL (YELLOW)
	8.28			X	2	42.0	XING (YELLOW)
	8.31		X		1	206.0	CROSSWALK (YELLOW)
	8.34	X			2	42.0	XING (YELLOW)
	8.36	X			2	70.0	SCHOOL (YELLOW)
	8.37			X	2	46.0	SLOW (YELLOW)
	8.45			X	2	46.0	SLOW (YELLOW)
	8.46			X	2	36.0	PED (YELLOW)
	8.47			X	2	42.0	XING (YELLOW)
	8.48			X	1	152.0	CROSSWALK (YELLOW)
	8.55		X		1	179.0	CROSSWALK (YELLOW)
	8.62	X			2	42.0	XING (YELLOW)
	8.63	X			2	36.0	PED (YELLOW)
	8.64	X			2	46.0	SLOW (YELLOW)
TOTAL						1101.0	

PAVEMENT MARKER (RETROREFLECTIVE)

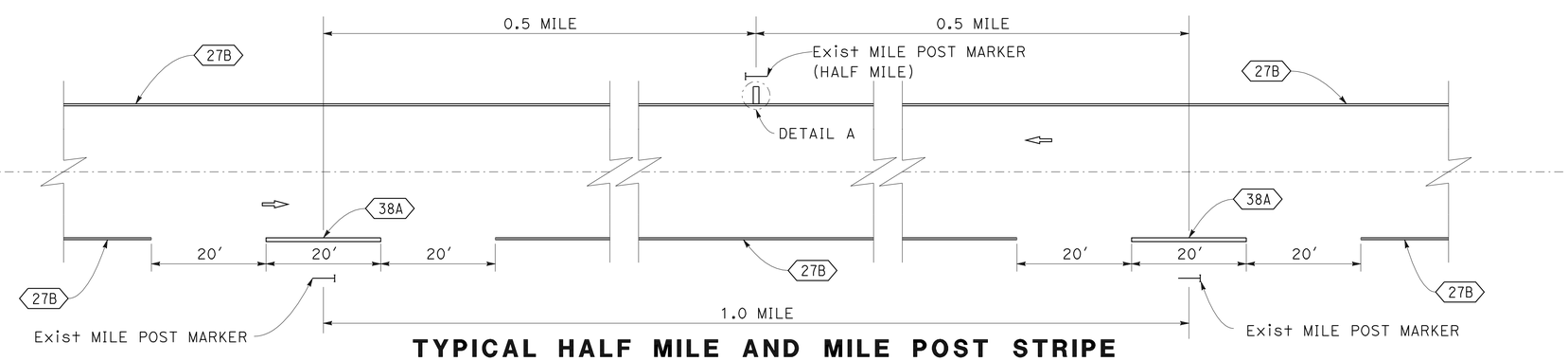
Loc	POST MILE LIMITS	TYPE D	TYPE H
	PM-PM	EA	EA
2	8.9-12.0	785	71
TOTAL		856	

THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)

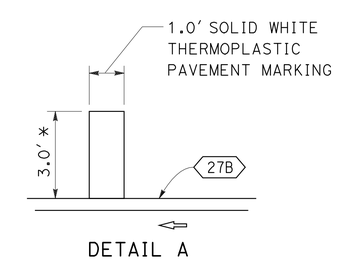
Loc	Co-Rte-PM	DETAIL 6	DETAIL 8	DETAIL 19	DETAIL 21	DETAIL 22	DETAIL 27B	DETAIL 27C	DETAIL 32	DETAIL 38A
		LF	LF	LF	LF	LF	LF	LF	LF	LF
1	Plu-36-7.9/8.8		9547		1267		9504	2904		
2	Teh-99-8.9/12.0	10,455		1637		2482	32,736		1532	60
SUB-TOTAL		10,455	9547	1637	1267	2482	42,240	2904	1532	60
TOTAL		72,124								



TRAFFIC STRIPE MATCH DETAIL



TYPICAL HALF MILE AND MILE POST STRIPE



* ACTUAL LENGTH MAY VARY DUE TO PAVEMENT WIDTH

PAVEMENT DELINEATION DETAILS AND QUANTITIES

NO SCALE

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

DENISE FUZERE — REVISED BY — DATE REVISED
KARLIE J. SMITH — CALCULATED-DESIGNED BY — CHECKED BY
LANCE BROWN — FUNCTIONAL SUPERVISOR

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	6	14

Denise Fuzere 01-03-11
REGISTERED CIVIL ENGINEER DATE

01-03-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DENISE FUZERE No. C69865 Exp. 9-30-12 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. DO NOT PLACE HMA ON BRIDGE DECK

ROADWAY QUANTITIES

LOCATION	POST MILE LIMITS	(N) LENGTH	(N) WIDTH	HMA (TYPE A)	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)
	PM - PM	LF	LF	TON	TON	TON
1	7.90 TO 8.00	528.0	24.0	1317	5.3	
	8.00 TO 8.14	739.2	24.0			
	8.14 TO 8.22	422.4	24.0			
	8.22 TO 8.37	792.0	24.0			
	8.37 TO 8.80	2270.4	24.0			
2	8.97 TO 9.14	897.6	40.0	277	1.2	98
	9.14 TO 9.15	63.4	40.0	*NOTE 2		
	9.15 TO 10.47	6969.6	40.0	5176	20.3	1637
	10.47 TO 10.98	2692.8	41.0			
	10.98 TO 11.17	1003.2	46.5			
	11.17 TO 11.35	950.4	53.0			
	11.35 TO 11.48	686.4	53.3			
	11.48 TO 11.66	950.4	53.5			
	11.66 TO 11.71	264.0	53.3			
	11.71 TO 11.78	369.6	54.0			
	11.78 TO 11.86	422.4	56.8			
	11.86 TO 11.91	264.0	56.3			
	11.91 TO 12.00	475.2	54.0			
			TOTAL	6770	26.8	1735

REPLACE ASPHALT CONCRETE SURFACING

Loc	POST MILE LIMITS	DIRECTION	Approx No. OF DIGOUTS	(N) DEPTH	(N) WIDTH	(N) LENGTH	QUANTITY
	PM - PM			LF	LF	LF	CY
1	7.9 - 8.8	WB & EB	10	0.33	4	100	48.9
2	8.9 -12.0	NB & SB	33	0.33	4	100	161.3
						TOTAL	210.2

COLD PLANE ASPHALT CONCRETE PAVEMENT

LOCATION	POST MILE LIMITS	(N) LENGTH	(N) WIDTH	AREA	REMARKS
		LF	LF	SQYD	
1	7.90 TO 8.00	528.0	24.0	1408	GRIND AND REPLACE
	8.00 TO 8.14	739.2	24.0	1971	GRIND AND REPLACE
	8.14 TO 8.22	422.4	24.0	1126	GRIND AND REPLACE
	8.22 TO 8.37	792.0	24.0	2112	GRIND AND REPLACE
	8.37 TO 8.80	2270.4	24.0	6054	GRIND AND REPLACE
2	8.91 TO 8.90	40.0	40.0	178	MAINLINE CONFORM TAPER
	9.14	110.0	40.0	489	BRIDGE CONFORM TAPER
	9.15	110.0	40.0	489	BRIDGE CONFORM TAPER
	11.18	168.0	10.0	187	PAVED ROAD CONNECTION CONFORM TAPER
	11.34	100.0	10.0	111	PAVED ROAD CONNECTION CONFORM TAPER
	11.71	93.0	10.0	103	PAVED ROAD CONNECTION CONFORM TAPER
	11.78	65.0	10.0	72	PAVED ROAD CONNECTION CONFORM TAPER
	11.84	54.0	10.0	60	PAVED ROAD CONNECTION CONFORM TAPER
	11.88	43.3	10.0	48	PAVED ROAD CONNECTION CONFORM TAPER
	11.98	50.0	10.0	56	PAVED ROAD CONNECTION CONFORM TAPER
	12.00 TO 11.99	40.0	54.0	240	MAINLINE CONFORM TAPER
		TOTAL		14,704	

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
DENISE FUZERE | KARLIE J. SMITH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LANCE BROWN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Plu,Teh	36,99	7.9/8.8, 8.9/12.0	7	14

ART 01-03-11
REGISTERED ELECTRICAL ENGINEER DATE

01-03-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER A.P. ROBLES No. E15293 Exp. 3-31-11 ELECTRICAL 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.

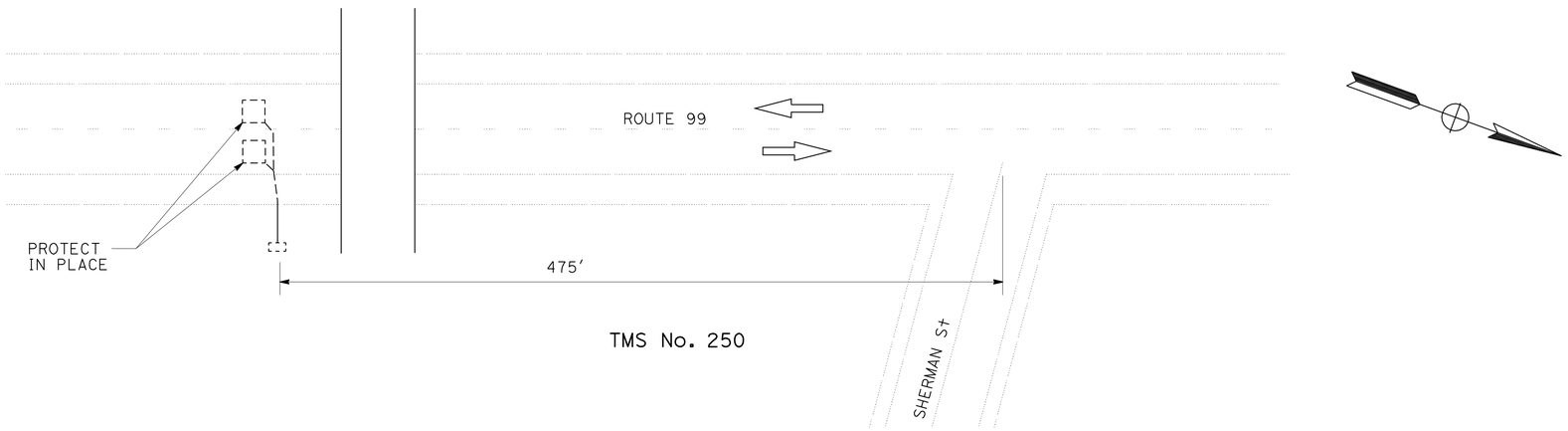
NOTES (THIS SHEET):

1. EXACT LOCATION OF LOOP DETECTORS WILL BE DETERMINED BY THE ENGINEER.

2. REUSE CONDUIT FOR LOOP WIRES AND LEAVE 10′ OF SLACK IN PB.

LEGEND

DIRECTION OF TRAVEL



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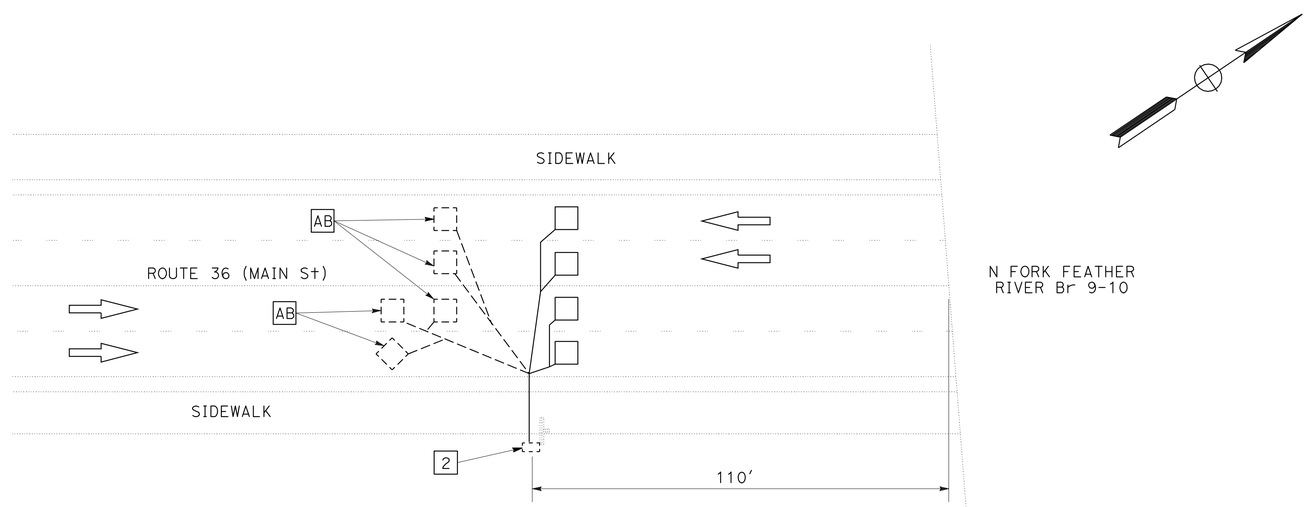

TMS No. 114

TRAFFIC MONITORING STATION

NO SCALE

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ROB STINGER
CALCULATED-DESIGNED BY: ARTURO ROBLES
CHECKED BY: KAREN CARMO
REVISED BY / DATE REVISED

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LAST REVISION 01-03-11 | DATE PLOTTED => 03-JAN-2011 | TIME PLOTTED => 14:57

BORDER LAST REVISED 7/2/2010 | USERNAME => s115152 | DGN FILE => 22e700ua001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0147 | PROJECT NUMBER & PHASE 02000005961

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	8	14

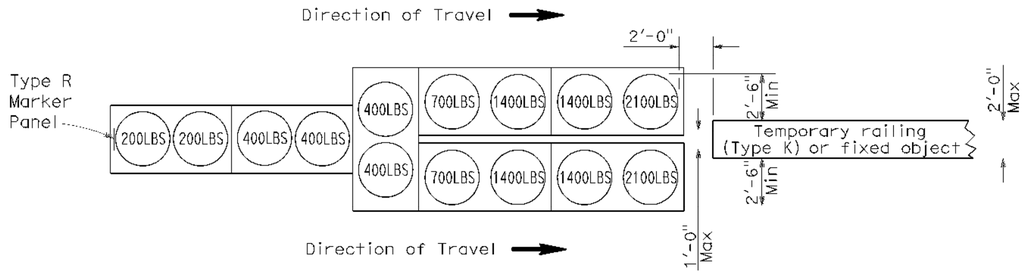
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

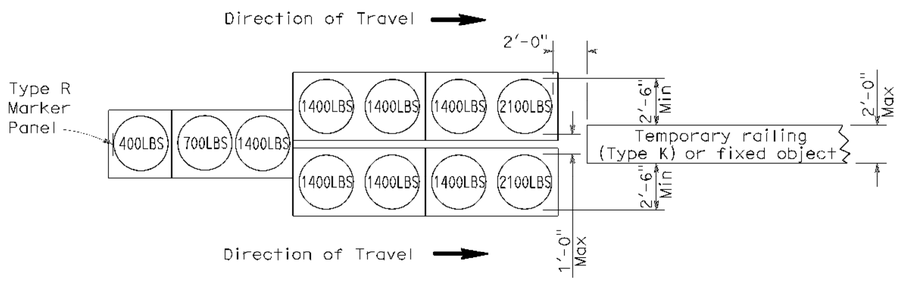
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 01-03-11



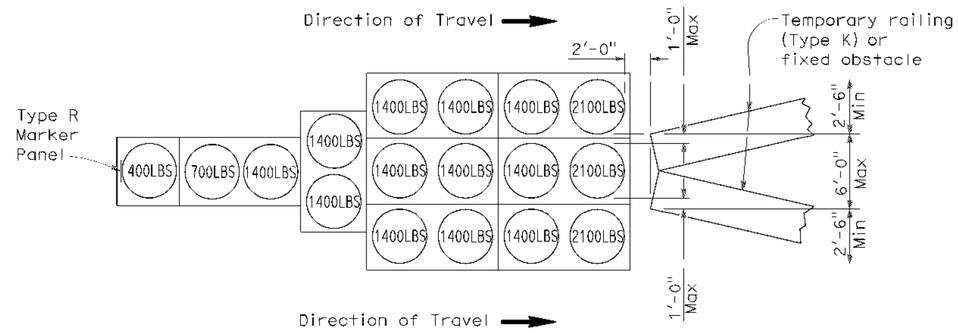
ARRAY 'TU14'

Approach speed 45 mph or more



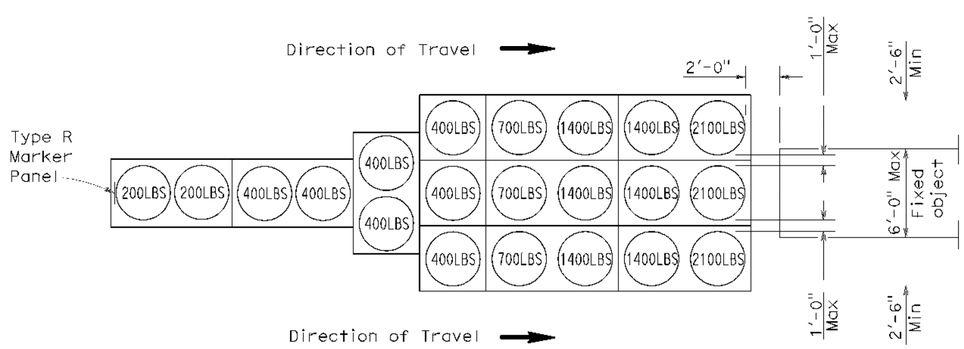
ARRAY 'TU11'

Approach speed less than 45 mph



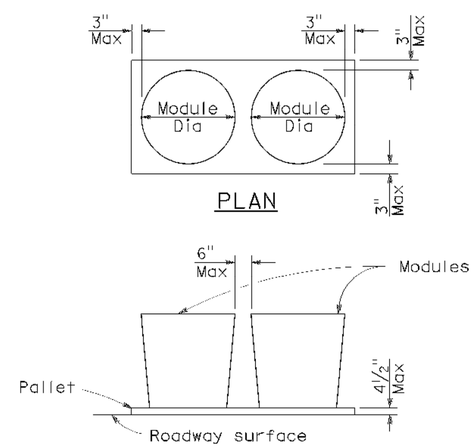
ARRAY 'TU17'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



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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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	9	14

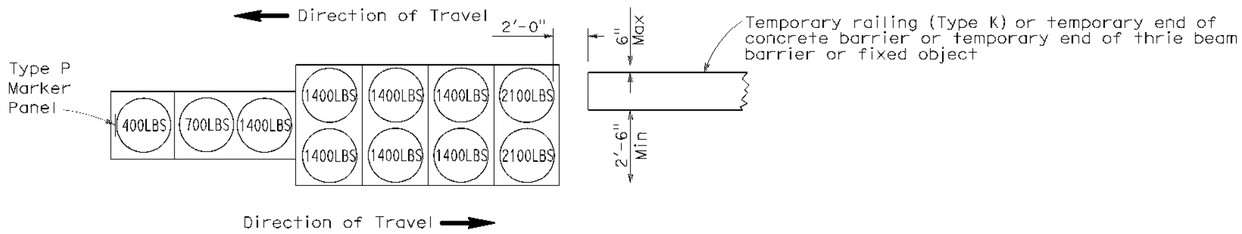
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

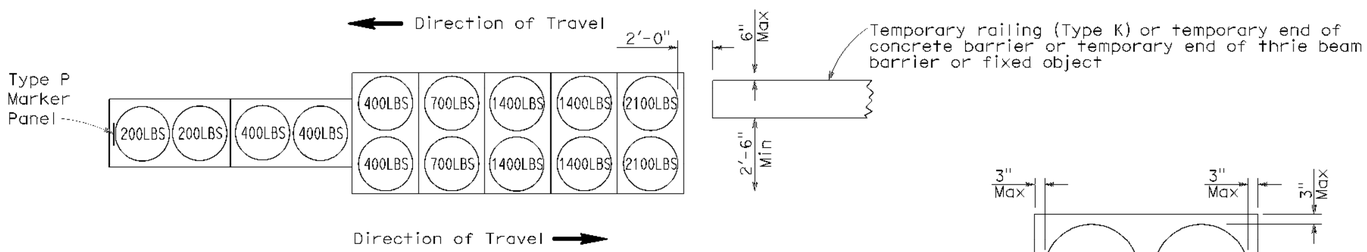
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 01-03-11



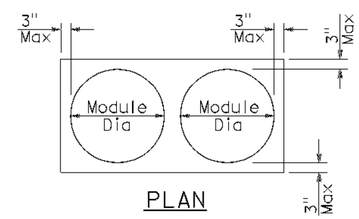
ARRAY 'TB11'

Approach speed less than 45 mph

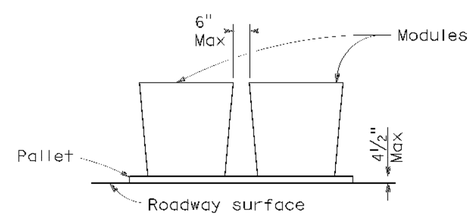


ARRAY 'TB14'

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

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	10	14

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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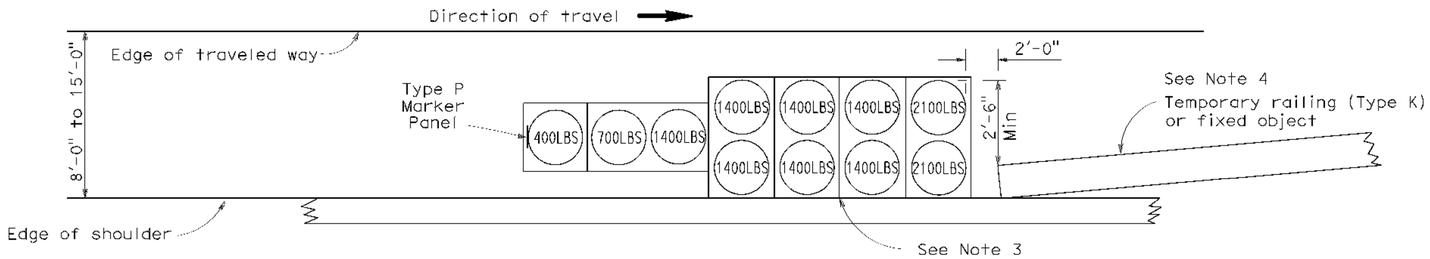
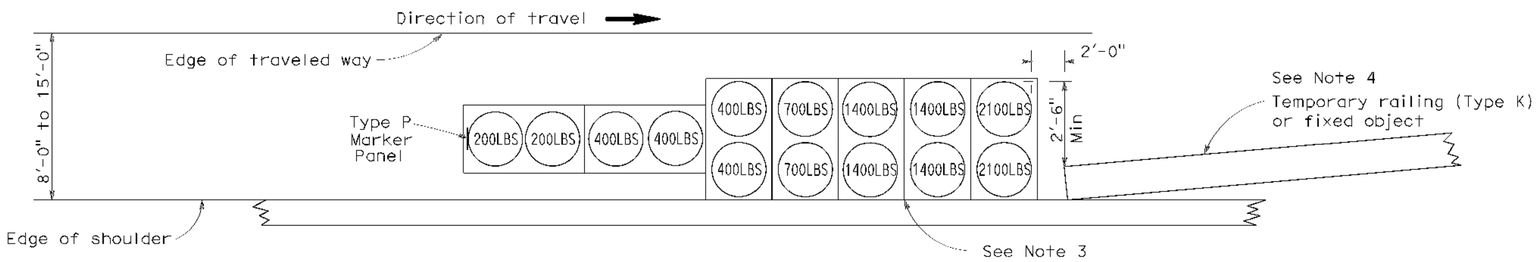
To accompany plans dated 01-03-11



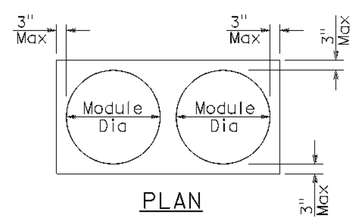
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

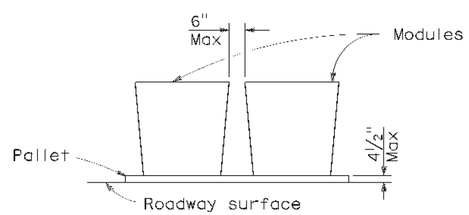


ARRAY 'TS14'

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

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5 15 08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	11	14

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL 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 01-03-11

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

1. Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
2. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
3. Variations noted adjacent to symbol on project plans.

Electrolier (see project notes or project plans)

Luminaire on wood pole

STANDARD NOTES:

- AB Abandon. If applied to conduit, remove conductors.
- BC Install pull box in existing conduit run.
- BP Pedestrian barricade, type as indicated on plan.
- CB Install conduit into existing pull box.
- CC Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH Detector handhole.
- FA Foundation to be abandoned.
- IS Install sign on signal mast arm.
- NS No slip base on standard.
- PEC Photoelectric control.
- PEU Photoelectric unit.
- RC Equipment or material to be removed and become the property of the Contractor.
- RE Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL Relocate equipment.
- RR Remove and reuse equipment.
- RS Remove and salvage equipment.
- SC Splice new to existing conductors.
- SD Service disconnect.
- SF Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED	EXISTING	
BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

SOFFIT AND WALL MOUNTED LUMINAIRES

Pendant, 70 W HPS unless otherwise specified.

Flush, 70 W HPS unless otherwise specified.

Wall surface, 70 W HPS unless otherwise specified.

Existing soffit or wall luminaire to remain unmodified.

Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	12	14

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

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To accompany plans dated 01-03-11

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
C	c	Communication conduit
T	t	Telephone conduit
F	f	Fire alarm conduit
FO	fo	Fiber optic conduit
		Conduit termination (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

PROPOSED	EXISTING	
OH	oh	Overhead lines
U	U	Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
III		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
T	t	Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION

Type of installation

TYPE H SERVICE - 28'-10" ← Pole height above grade

ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
PV	PV	Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
R	Y	Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. Signal indication shall be LED.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

2006 REVISED STANDARD PLAN RSP ES-1B

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	13	14

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL 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 01-03-11

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

Sign No. 12345 — Sign number - Place on post or structure

10 ISL SCI 1.0

- Transformer rating (kVA)
- Lighting control type
- Number and type of fixtures

} Do NOT place on standard or structure

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"

- 15'-0" — Mast arm length, if shown. Do not place on standard or structure.
- 12345 — Equipment number - Place on standard or structure. Existing equipment numbers are shown in parenthesis

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC

- 2#10, 15#14, 2 DLC — Number and size of conductors and cables
- 1½"C — Size of conduit in inches

ø1, ø2, ø2P, etc.	Traffic phase identification for signal faces, detectors and phase diagrams
1 2 3	Project note numbers
A B C	Equipment description, installation or item numbers
1 2 3	Conduit run numbers

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100

- 100 — Wind velocity = 100 mph
- 3 — Case 3 arm loading
- 19A — Standard type
- Standard Plan sheet number
- Detail number or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
EMS	ems	Extinguishable message sign
M V	m v	Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)

- External conductor
- Conductor or bus
- Tie point
- Contactor coil
- Contactor, Contact NO
- Terminal blocks
- Contactor, Contact NC
- Enclosure bond
- Grounding electrode
- Circuit breaker
- Receptacle

PULL BOXES

PROPOSED EXISTING

Pull box-No. 5 unless otherwise indicated or noted.

3 — 9A(21)

Pull box-Additional designations or descriptions

- 3 = No. 3½ pull box
- 5 = No. 5 pull box
- 6 = No. 6 pull box
- 7 = No. 7 (Ceiling pull box)
- 8 = No. 8 (Pendant soffit pull box)
- 9 = No. 9 pull box
- 9A = No. 9A pull box

- (C) = Communications pull box
- (E) = Pull box with extension
- (S) = Sprinkler control pull box
- (21) = Anchor bolts and conduit for future installation of Type 21 Standard
- (T) = Traffic pull box

VEHICLE DETECTORS

5 J 9 U

- Vehicle detector designation
- U = Upper, L = Lower
- Slot number in input file
- Input file (I or J)
- Phase

PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
DH	dh	Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	Plu, Teh	36,99	7.9/8.8, 8.9/12.0	14	14

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

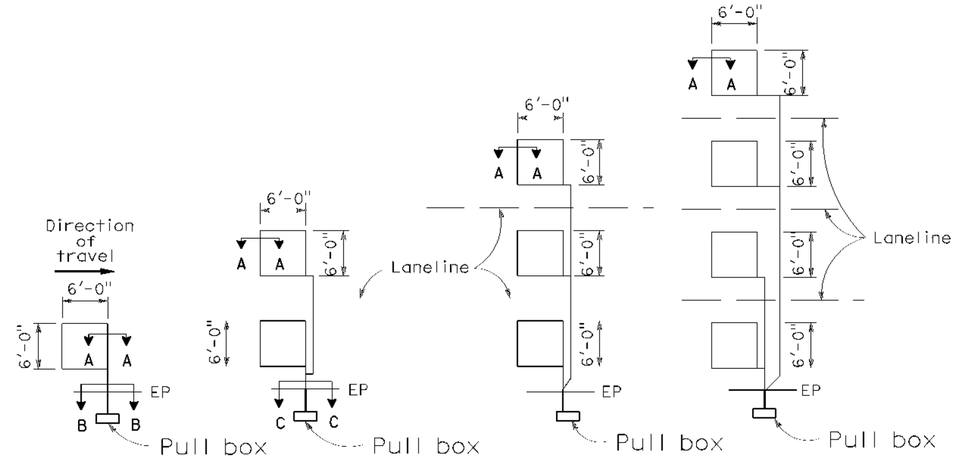
REGISTERED PROFESSIONAL ENGINEER Jeffery G. McRae No. E14512 Exp. 6-30-08 ELECTRICAL STATE OF CALIFORNIA

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 01-03-11

LOOP INSTALLATION PROCEDURE

1. Loops shall be centered in lanes.
2. Saw slots in pavement for loop conductors as shown in details.
3. Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
4. Bottom of saw slot shall be smooth with no sharp edges.
5. Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
6. Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
7. Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
8. Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
9. No more than 2 twisted pairs shall be installed in one sawed slot.
10. Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
11. The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
12. Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
13. Fill slots as shown in details.
14. Splice loop conductors to lead-in-cable. Splices shall be soldered.
15. End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
16. Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
17. Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
18. Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.

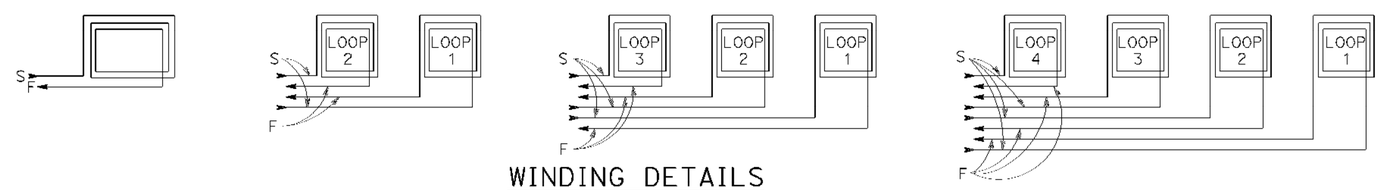


TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

SAWCUT DETAILS

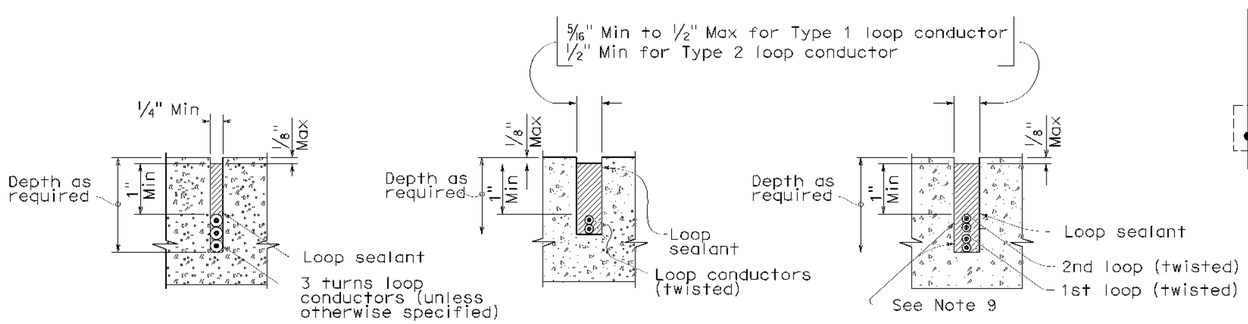
(Type A loop detector configurations illustrated)

1. 1A thru 4A = 1 Type A loop configuration in each lane.
2. 1B thru 4B = 1 Type B loop configuration in each lane.
3. 1C = 1 Type C loop configuration entering lanes as required.
4. 1D thru 4D = 1 Type D loop configuration in each lane.
5. 1E thru 4E = 1 Type E loop configuration in each lane.
6. 1Q thru 4Q = 1 Type Q loop configuration in each lane.
   (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



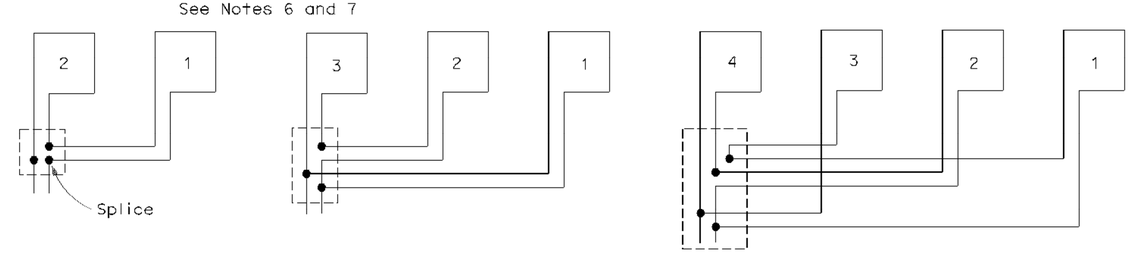
WINDING DETAILS

See Notes 6 and 7



SECTION A-A | SECTION B-B | SECTION C-C

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

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