Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	1	38

ACNH-000C(332)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN FRESNO, KERN, TULARE, INYO, AND MONO COUNTIES AT VARIOUS LOCATIONS

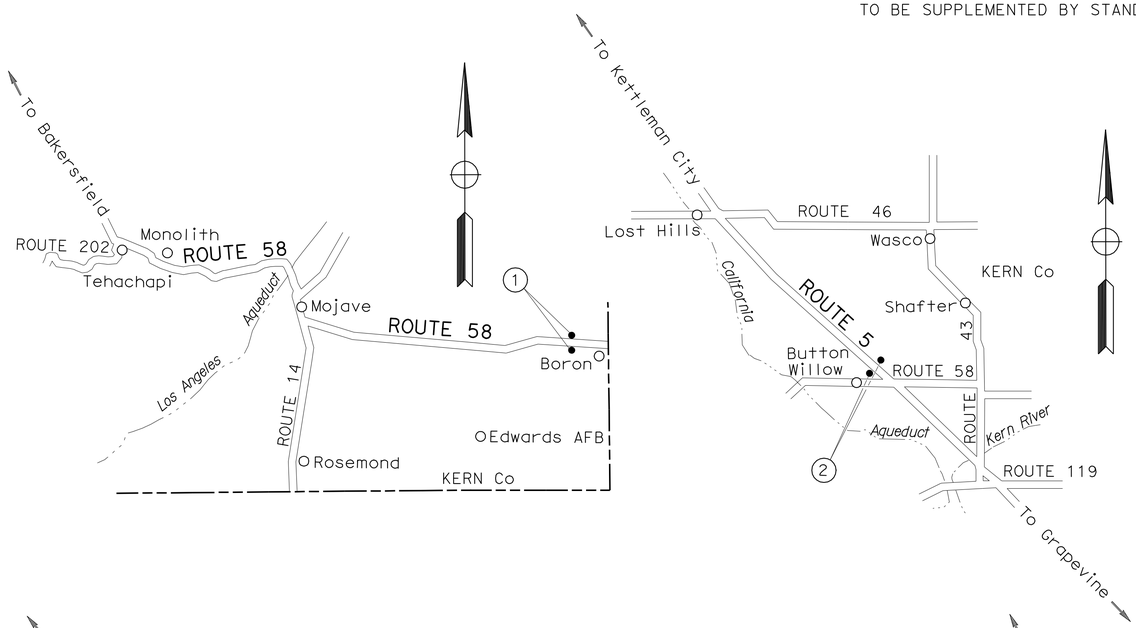
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

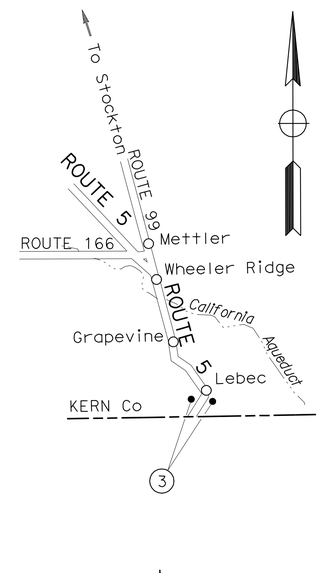
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-5	TYPICAL CROSS SECTIONS
6-17	CONSTRUCTION DETAILS
18	CONSTRUCTION AREA SIGNS
19	PAVEMENT DELINEATION QUANTITIES
20	SUMMARY OF QUANTITIES
21	ELECTRICAL PLANS
22-38	REVISED AND NEW STANDARD PLANS

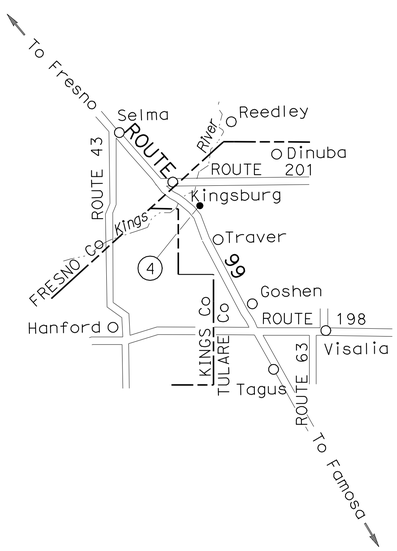
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

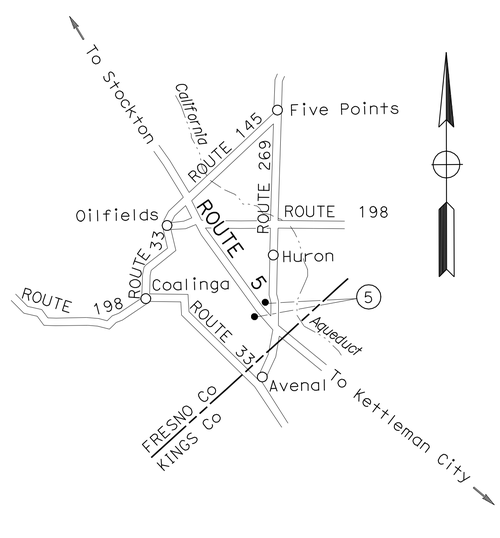
LOCATION MAP

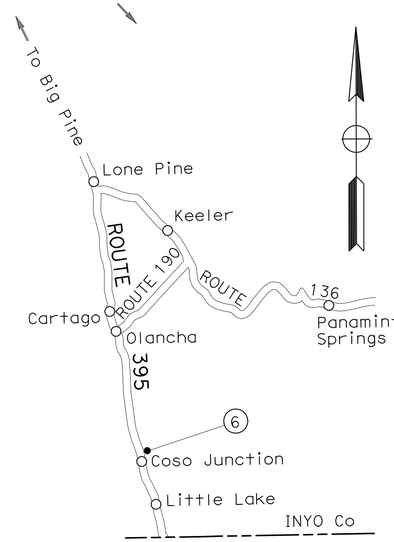


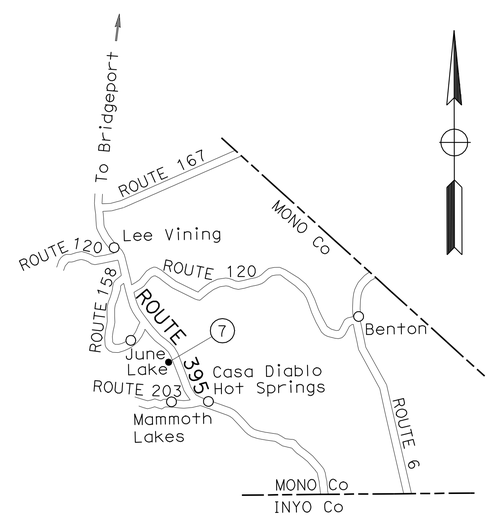


LOCATIONS OF CONSTRUCTION							
No.	DISTRICT	SRRA	COUNTY	ROUTE	POST MILE	WORK DESCRIPTION	DIRECTION
1	06	BORON	Ker	58	R138.9	PLACE HMA ON EXISTING PAVEMENT	EASTBOUND WESTBOUND
2	06	BUTTONWILLOW	Ker	5	R54.1	REPLACE EXISTING PAVEMENT SURFACE	NORTHBOUND SOUTHBOUND
3	06	TEJON	Ker	5	1.1	REPLACE EXISTING PAVEMENT SURFACE	NORTHBOUND SOUTHBOUND
4	06	WARLOW	Tul	99	51.9	REPLACE EXISTING PAVEMENT SURFACE	NORTHBOUND
5	06	COALINGA	Fre	5	1.4	REPLACE EXISTING PAVEMENT SURFACE	NORTHBOUND SOUTHBOUND
6	09	COSO JUNCTION	Iny	395	R17.9	PLACE HMA ON EXISTING PAVEMENT	NORTHBOUND
7	09	CRESTVIEW	Mno	395	32.4	PLACE HMA ON EXISTING PAVEMENT	SOUTHBOUND









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

NO SCALE

Zhi Zhan 10-04-10
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

November 8, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ZHI ZHAN LIN No. 60881 Exp. 12-31-10 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.	06-0M5104
PROJECT ID	0600020001

PROJECT MANAGER FRANK MOMEN
DESIGN ENGINEER RENE SANCHEZ

LAST REVISION 10-04-10
DATE PLOTTED => 18-JAN-2011
TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	2	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 09-30-11 CIVIL STATE OF CALIFORNIA

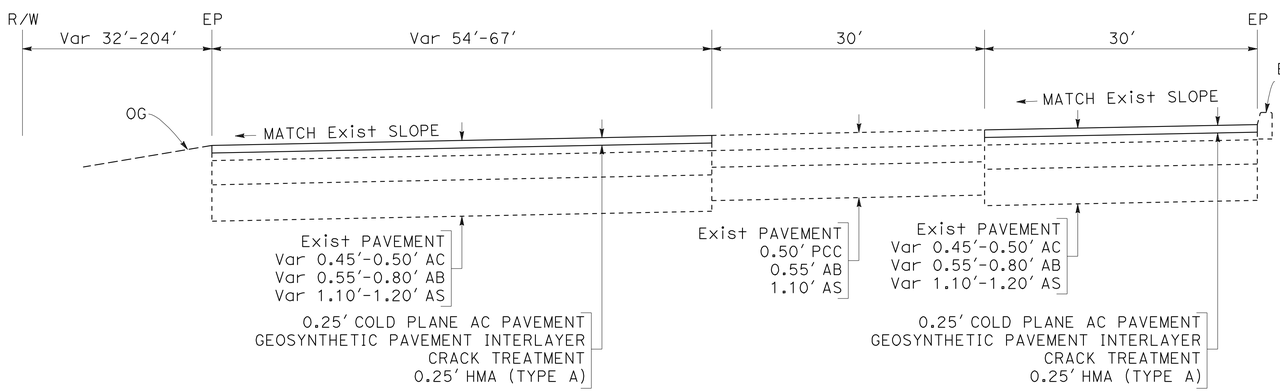
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

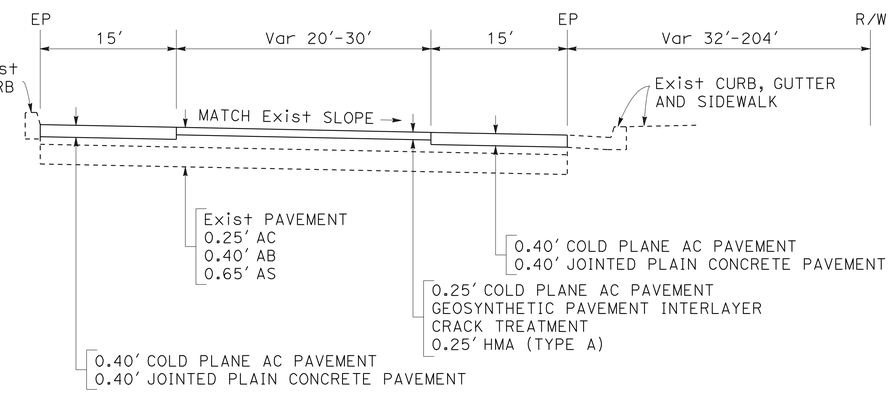
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ABBREVIATION:

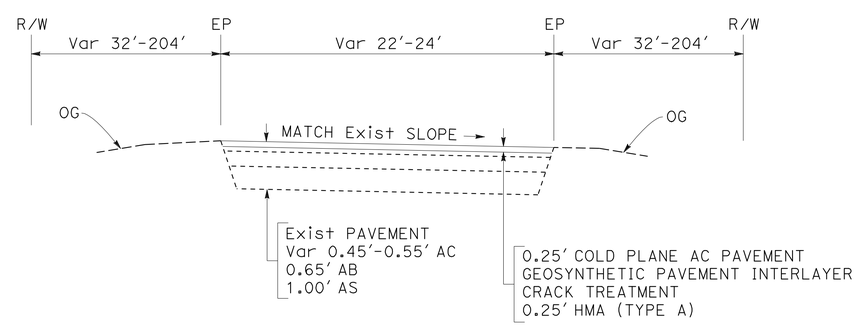
SRRA SAFETY ROADSIDE REST AREA



TRUCK PARKING
(NORTHBOUND AND SOUTHBOUND)
LOCATION 2
BUTTONWILLOW SRRA



AUTO PARKING
(NORTHBOUND AND SOUTHBOUND)
LOCATION 2
BUTTONWILLOW SRRA



RAMPS
(NORTHBOUND AND SOUTHBOUND)
LOCATION 2
BUTTONWILLOW SRRA

TYPICAL CROSS SECTIONS
X-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:49

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	3	38

Lin Zhi Zhan 10-04-10
REGISTERED CIVIL ENGINEER DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ZHI ZHAN LIN No. 60881 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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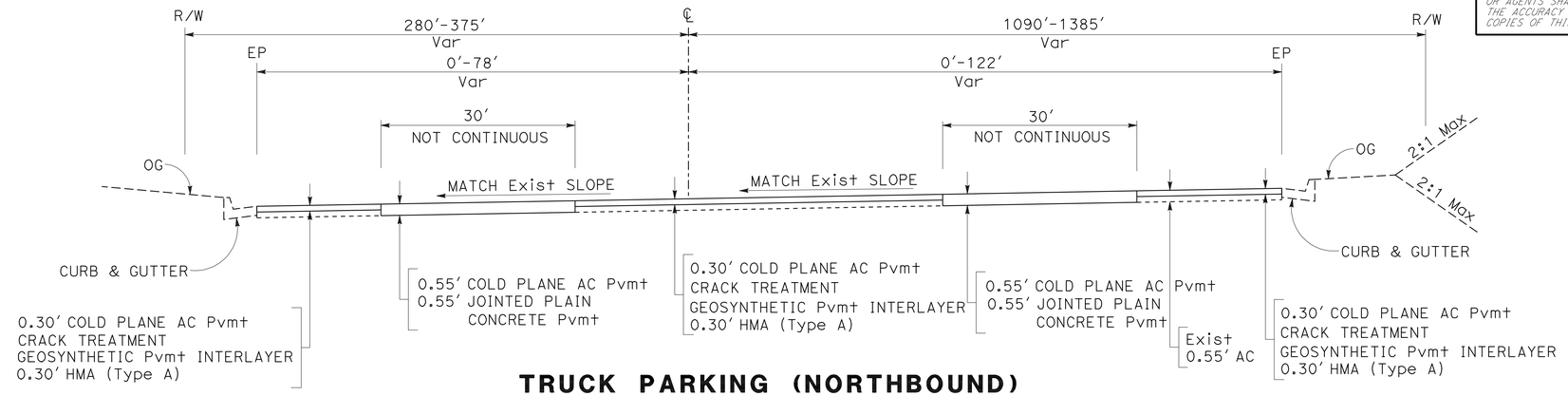
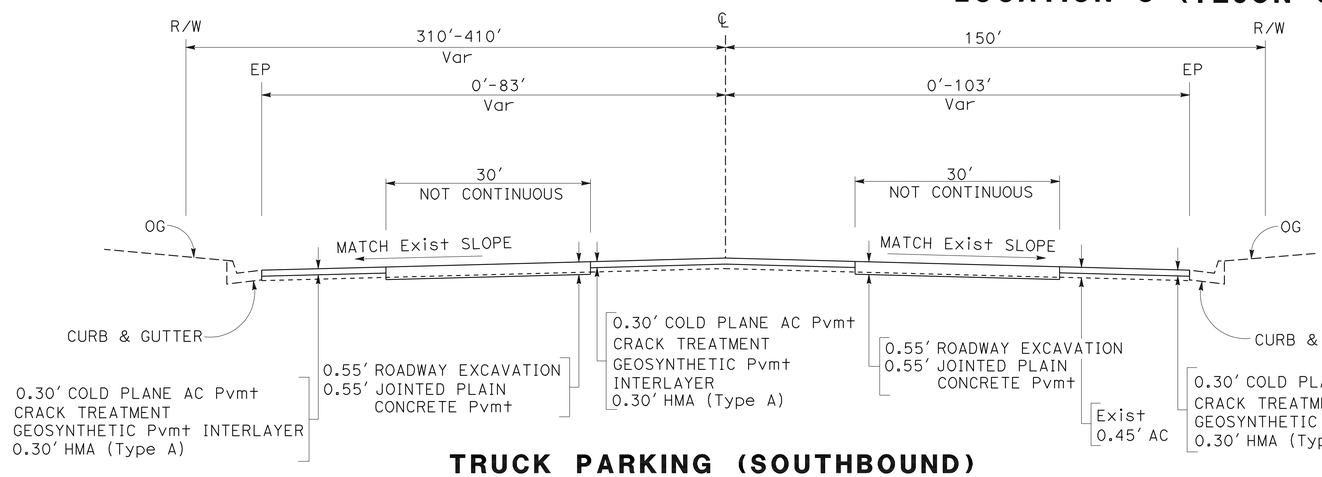
4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ABBREVIATION:

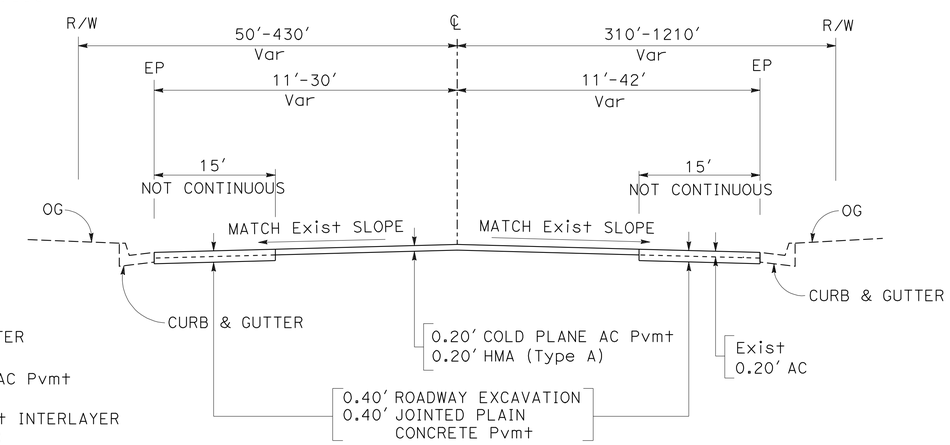
SRRA SAFETY ROADSIDE REST AREA



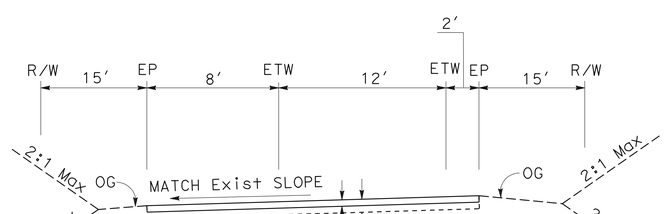
TRUCK PARKING (NORTHBOUND) LOCATION 3 (TEJON SRRA)



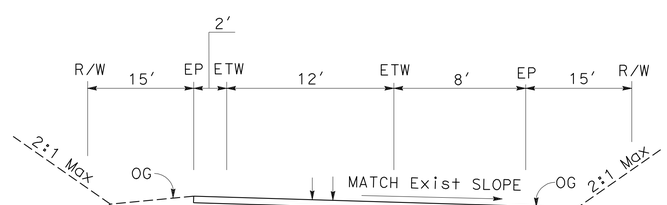
TRUCK PARKING (SOUTHBOUND) LOCATION 3 (TEJON SRRA)



AUTO PARKING (NORTHBOUND & SOUTHBOUND) LOCATION 3 (TEJON SRRA)



RAMPS (SOUTHBOUND) LOCATION 3 (TEJON SRRA)



RAMPS (NORTHBOUND) LOCATION 3 (TEJON SRRA)

TYPICAL CROSS SECTIONS

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	4	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ZHI ZHAN LIN No. 60881 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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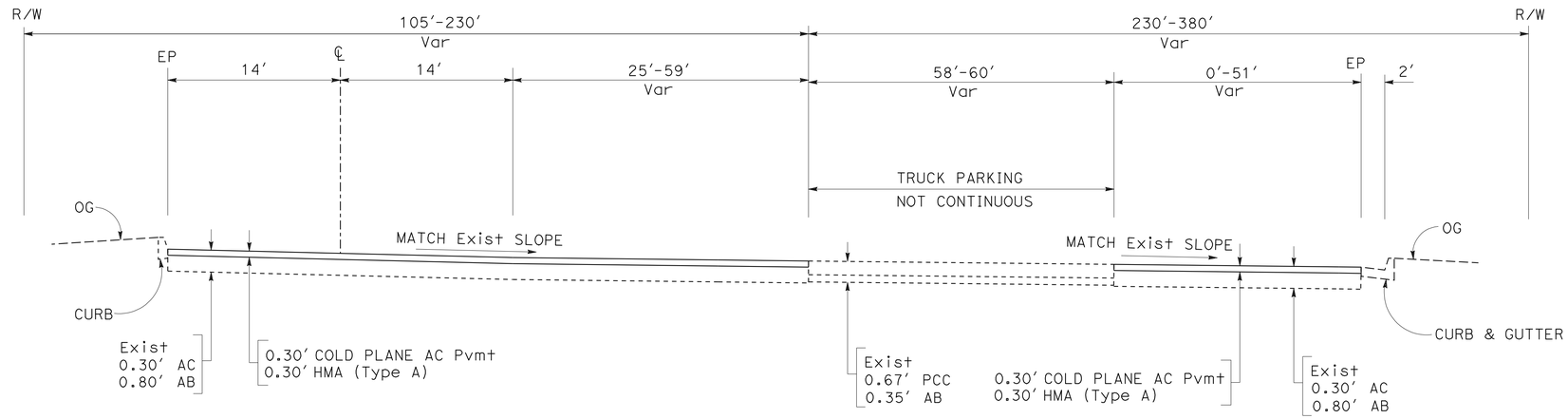
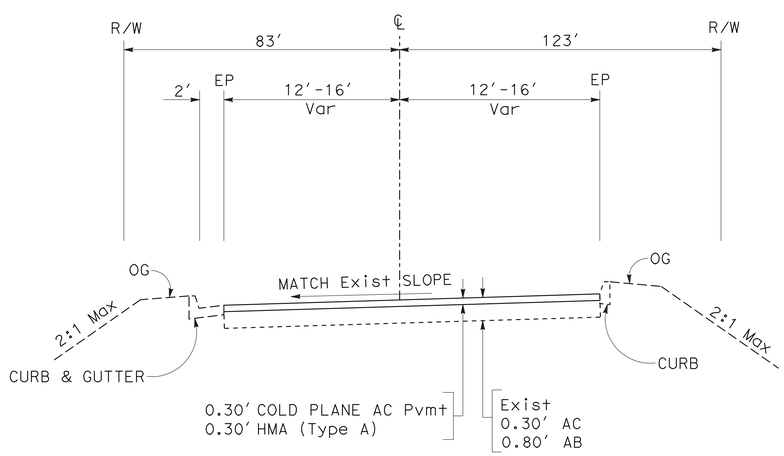
ABBREVIATION:

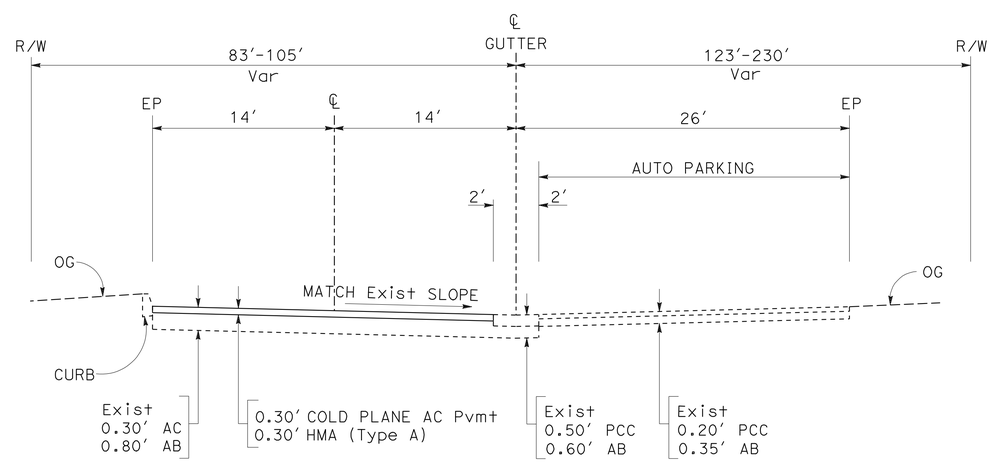
SRRA SAFETY ROADSIDE REST AREA



TRUCK PARKING
LOCATION 4
(WARLOW SRRA)



RAMP
LOCATION 4
(WARLOW SRRA)



AUTO PARKING
LOCATION 4
(WARLOW SRRA)

TYPICAL CROSS SECTIONS

NO SCALE

X-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	5	38

Lin Zhi Zhan 10-04-10
REGISTERED CIVIL ENGINEER DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ZHI ZHAN LIN No. 60881 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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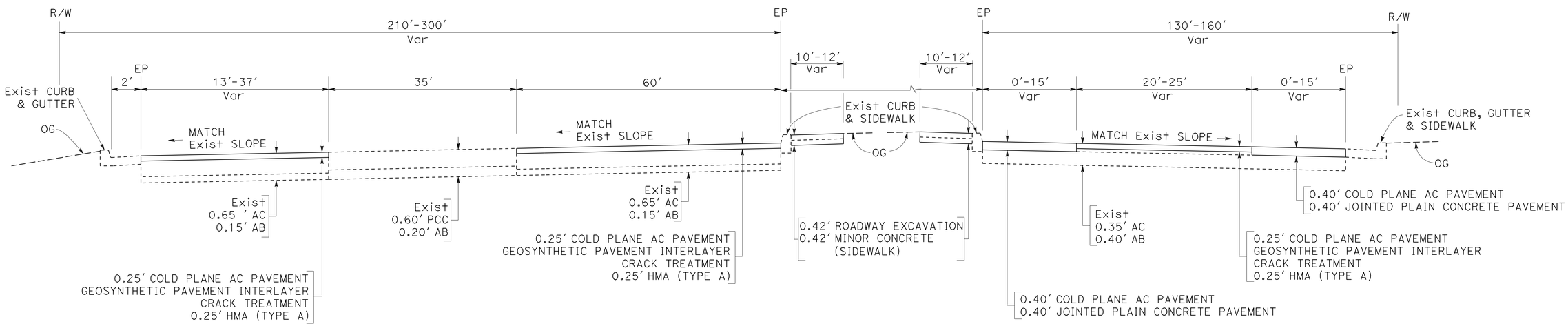
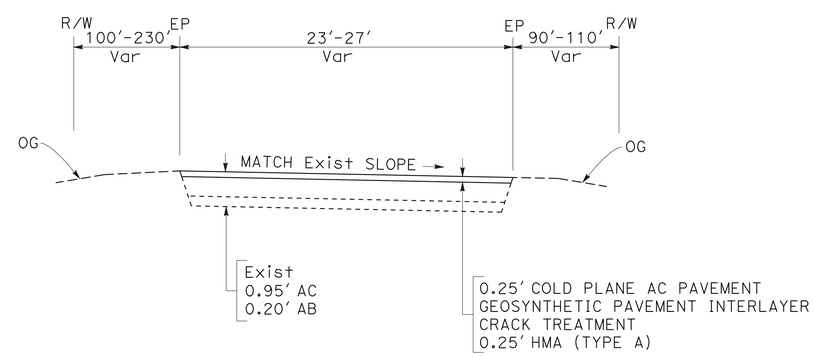
ABBREVIATION:

SRRA SAFETY ROADSIDE REST AREA



TRUCK PARKING
(NORTHBOUND AND SOUTHBOUND)
LOCATION 5
COALINGA SRRA

AUTO PARKING
(NORTHBOUND AND SOUTHBOUND)
LOCATION 5
COALINGA SRRA



RAMPS
(NORTHBOUND AND SOUTHBOUND)
LOCATION 5
COALINGA SRRA

TYPICAL CROSS SECTIONS
X-4

NO SCALE

REVISED BY | DATE REVISED
ZHI ZHAN LIN | RENE SANCHEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RENE SANCHEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	6	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

11-8-10
PLANS APPROVAL DATE

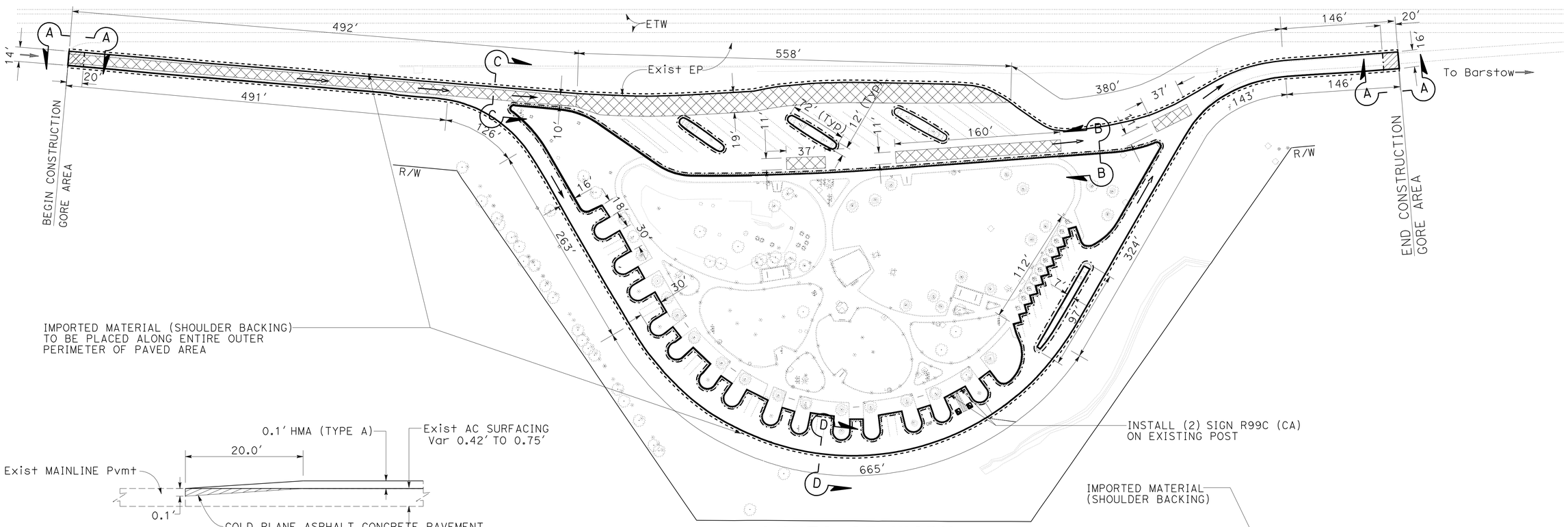
REGISTERED PROFESSIONAL ENGINEER MATTHEW GOIKE No. 63638 Exp 9/31/10 CIVIL STATE OF CALIFORNIA

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.

LEGEND:

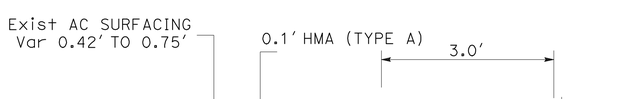
- 0.1′ HMA (TYPE A)
- 0.3′ COLD PLANE AC Pvmt
- 0.3′ HMA (TYPE A)
- COLD PLANE AC Pvmt
- IMPORTED MATERIAL (SHOULDER BACKING)

ROUTE 58

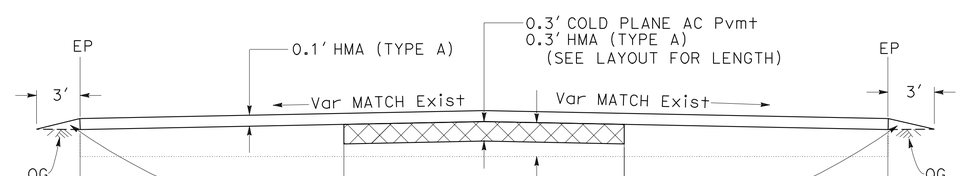


LIMITS OF WORK
EASTBOUND
LOCATION 1
BORON SRRA

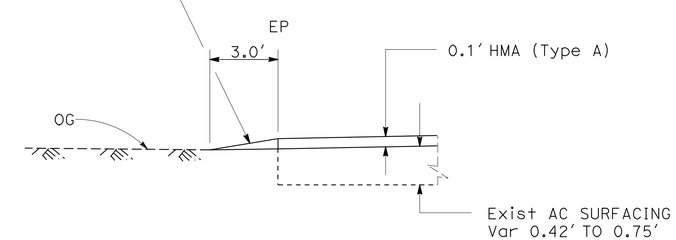
SECTION A-A (Typ)



SECTION B-B (Typ)



SECTION C-C (Typ)



SECTION D-D (Typ)

CONSTRUCTION DETAILS C-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: JOHN FOX
CALCULATED-DESIGNED BY: MATTHEW GOIKE
CHECKED BY: MALISSA REYNOLDS
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	7	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

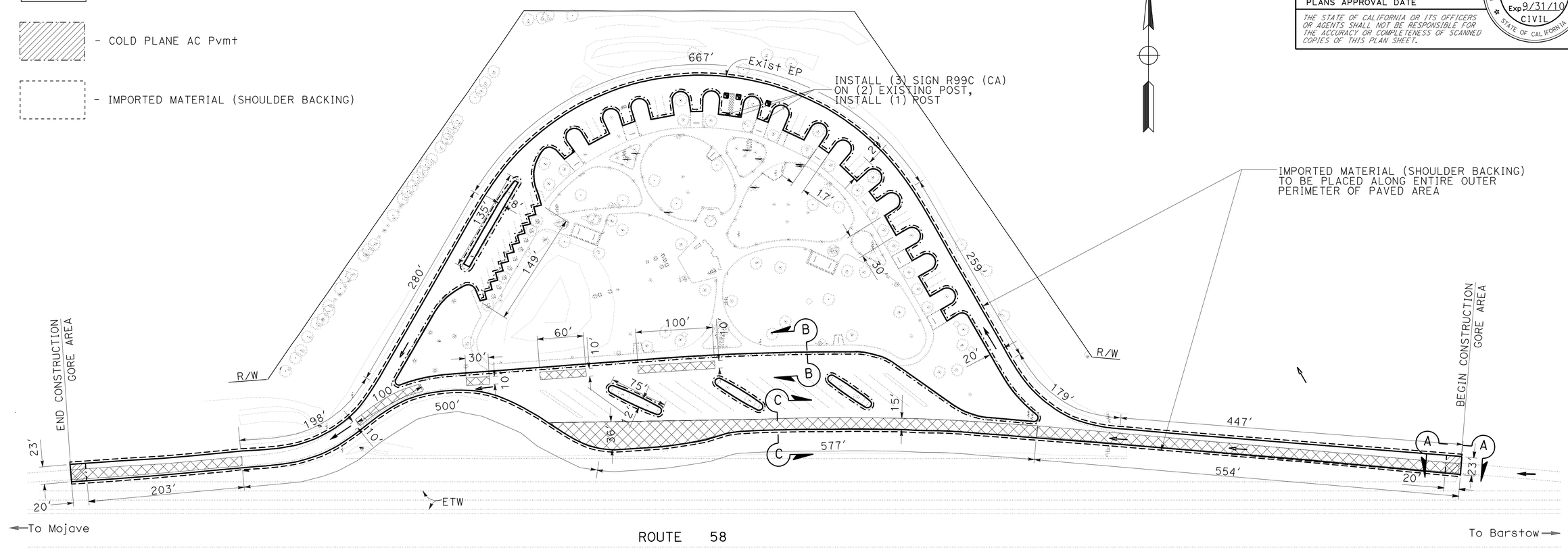
11-8-10
PLANS APPROVAL DATE

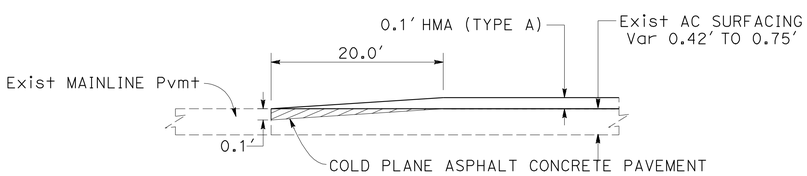
REGISTERED PROFESSIONAL ENGINEER MATTHEW GOIKE No. 63638 Exp 9/31/10 CIVIL STATE OF CALIFORNIA

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.

LEGEND:

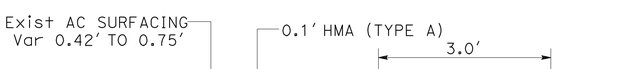
- 0.1′ HMA (TYPE A)
- 0.3′ COLD PLANE AC Pvmt
- 0.3′ HMA (TYPE A)
- COLD PLANE AC Pvmt
- IMPORTED MATERIAL (SHOULDER BACKING)



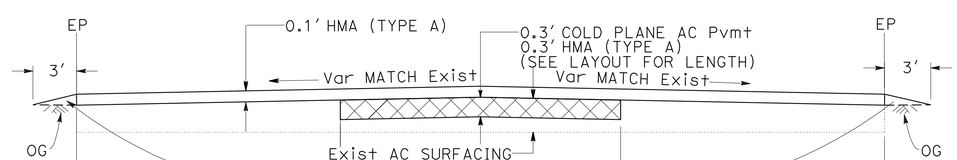


SECTION A-A (Typ)

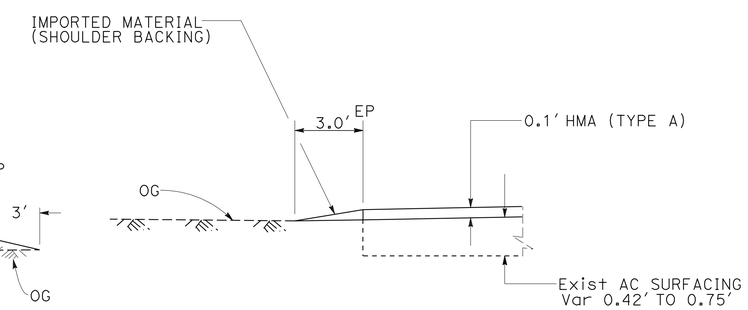
LIMITS OF WORK
WESTBOUND
LOCATION 1
BORON SRRA



SECTION B-B (Typ)



SECTION C-C (Typ)



SECTION D-D (Typ)

CONSTRUCTION DETAILS
NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: JOHN FOX
CALCULATED-DESIGNED BY: MATTHEW GOIKE
CHECKED BY: MALISSA REYNOLDS
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	8	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

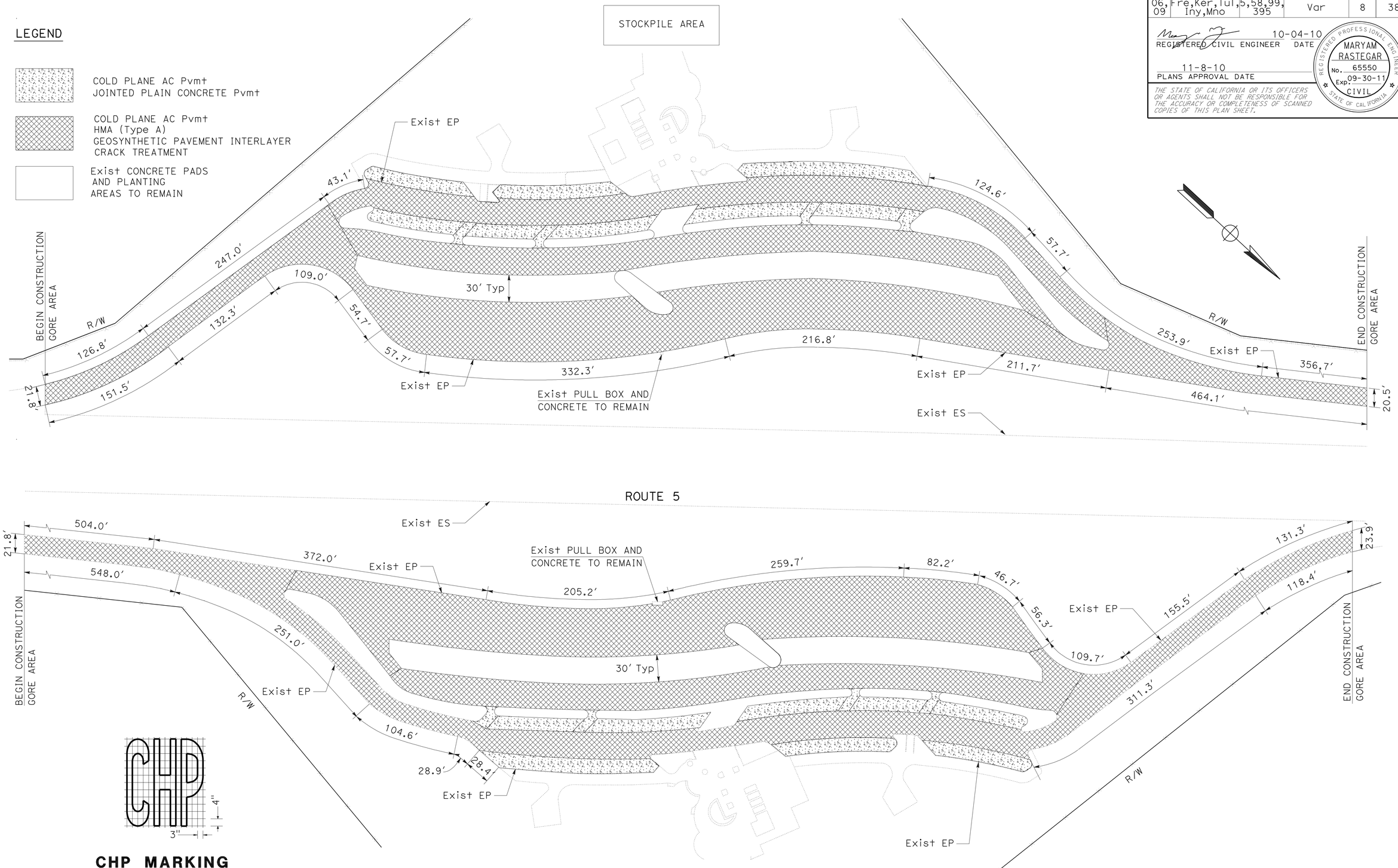
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARYAM RASTEGAR
No. 65550
Exp. 09-30-11
CIVIL
STATE OF CALIFORNIA

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

LEGEND

- COLD PLANE AC Pvmt
  JOINTED PLAIN CONCRETE Pvmt
- COLD PLANE AC Pvmt
  HMA (Type A)
  GEOSYNTHETIC PAVEMENT INTERLAYER
  CRACK TREATMENT
- Exist CONCRETE PADS
  AND PLANTING
  AREAS TO REMAIN



CHP MARKING

DESIGNATED CHP PARKING

LOCATION 2 LIMITS OF WORK
BUTTONWILLOW SRRA

STOCKPILE AREA

CONSTRUCTION DETAILS
C-3

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:50

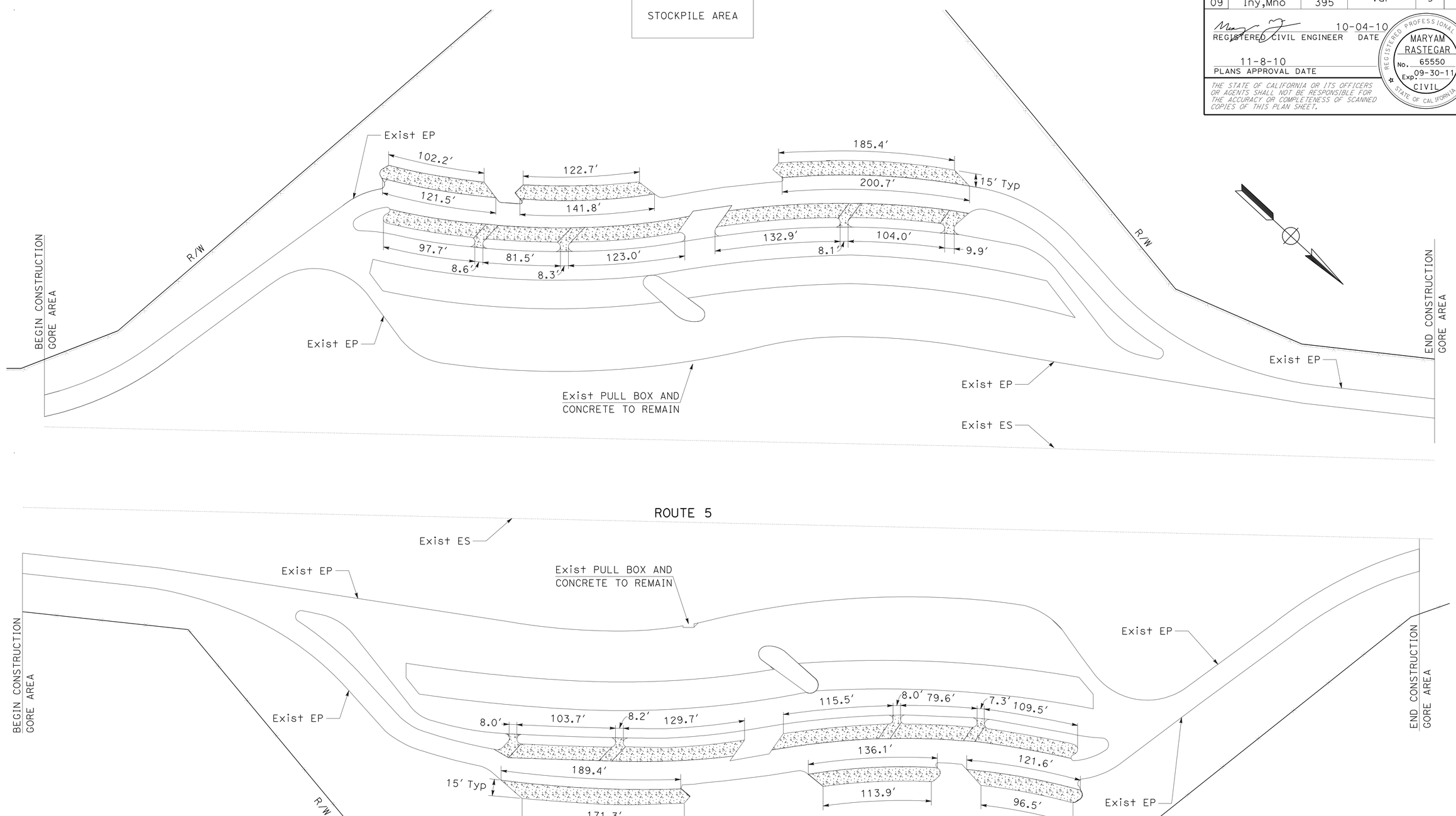
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	9	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARYAM RASTEGAR
No. 65550
Exp. 09-30-11
CIVIL
STATE OF CALIFORNIA

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



STOCKPILE AREA

LOCATION 2 LIMITS OF CONCRETE PAVEMENT
BUTTONWILLOW SRRA

CONSTRUCTION DETAILS
C-4

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	10	38

Lin Zhi Zhan 10-04-10
REGISTERED CIVIL ENGINEER DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
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.

LEGEND:

COLD PLANE AC Pvmt
JOINTED PLAIN CONCRETE Pvmt OR ROADWAY EXCAVATION
JOINTED PLAIN CONCRETE Pvmt

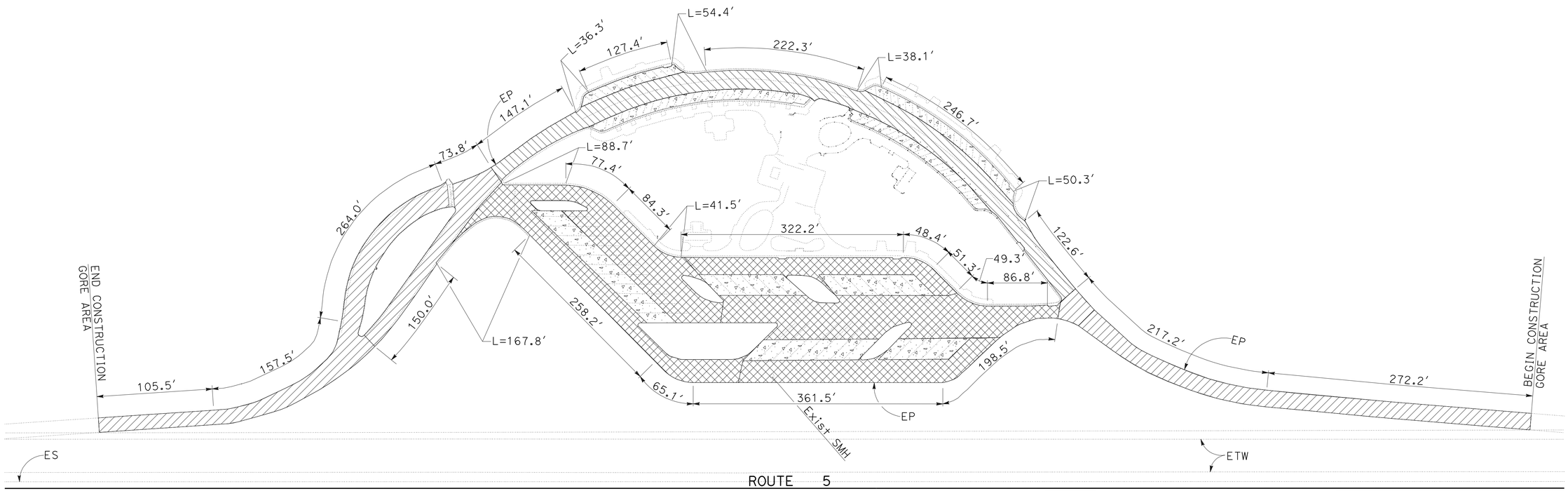
COLD PLANE AC Pvmt
CRACK TREATMENT
GEOSYNTHETIC Pvmt INTERLAYER
HMA (Type A)

COLD PLANE AC Pvmt
CRACK TREATMENT
HMA (Type A)

COLD PLANE AC Pvmt
HMA (Type A)

ABBREVIATION:

SMH SEWER MANHOLE



LIMIT OF WORK
SOUTHBOUND
LOCATION 3
(TEJON SRRA)

CONSTRUCTION DETAILS
C-5

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	11	38

Lin Zhi Zhan 10-04-10
REGISTERED CIVIL ENGINEER DATE

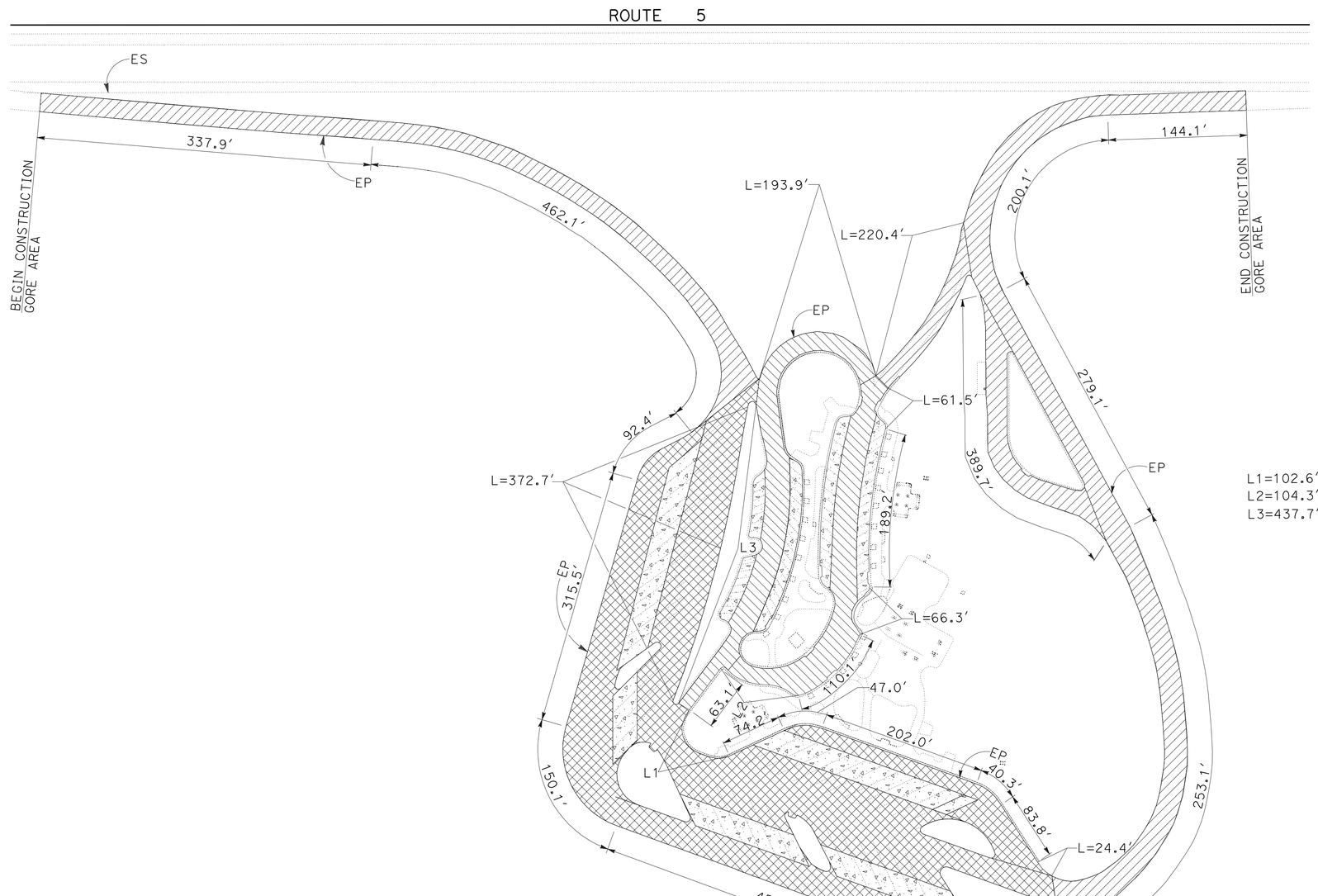
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
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.

LEGEND:

- COLD PLANE AC Pvmt OR ROADWAY EXCAVATION
  JOINTED PLAIN CONCRETE Pvmt
  JOINTED PLAIN CONCRETE Pvmt
- COLD PLANE AC Pvmt
  CRACK TREATMENT
  GEOSYNTHETIC Pvmt INTERLAYER
  HMA (Type A)
- COLD PLANE AC Pvmt
  CRACK TREATMENT
  HMA (Type A)
- COLD PLANE AC Pvmt
  HMA (Type A)



LIMIT OF WORK
NORTHBOUND
LOCATION 3
(TEJON SRRA)

CONSTRUCTION DETAILS
C-6

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:51

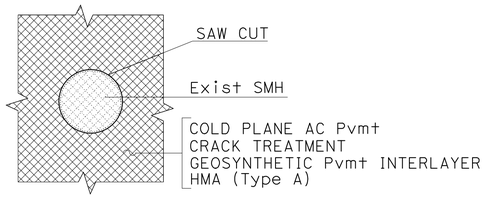
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	12	38

Zhi Zhan Lin 10-04-10
REGISTERED CIVIL ENGINEER DATE

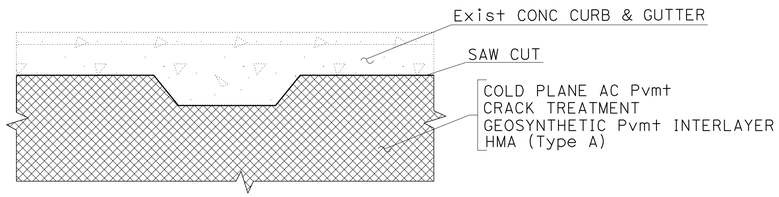
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ZHI ZHAN LIN No. 60881 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

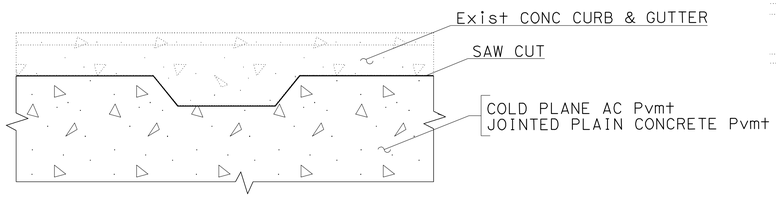
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



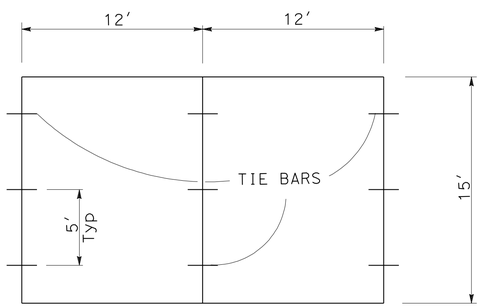
LOCATION 3



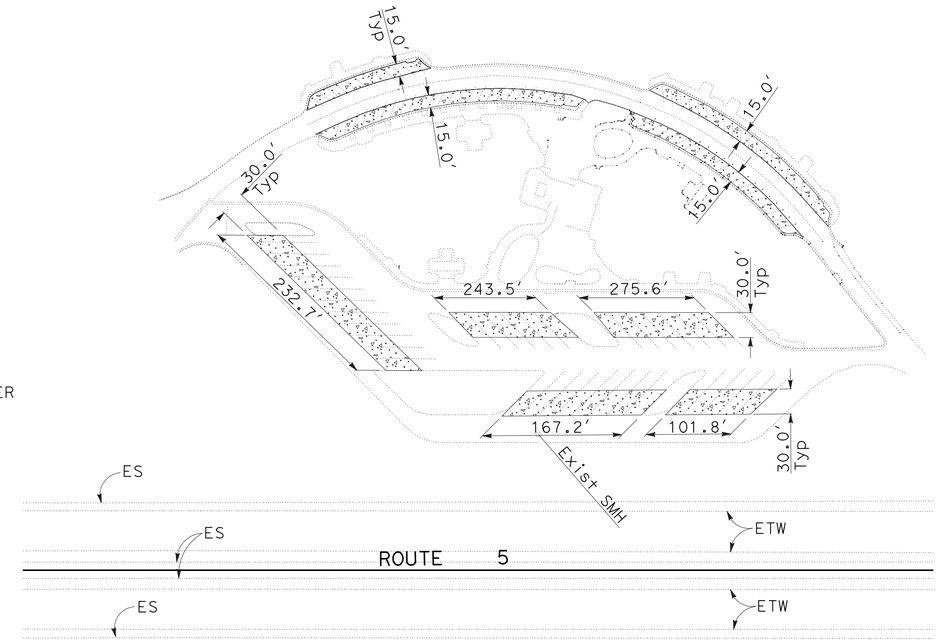
TRUCK PARKING
LOCATION 3

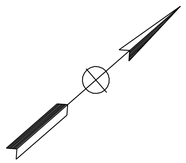


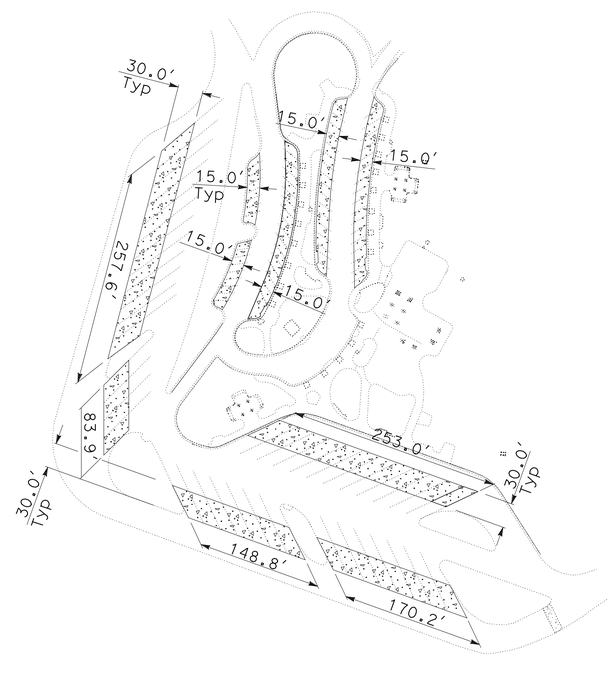
AUTO PARKING
LOCATION 3



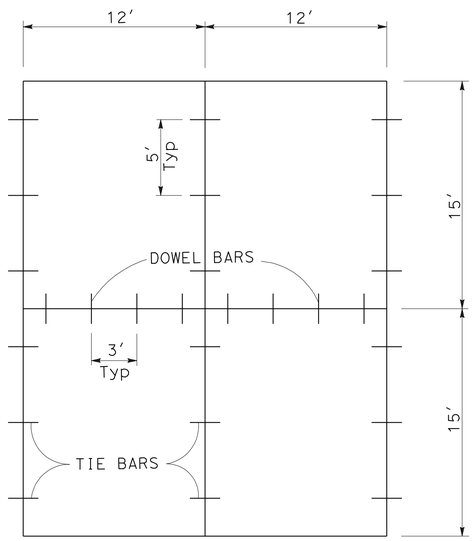
AUTO PARKING
JOINTED PLAIN CONCRETE PAVEMENT
DOWEL BARS AND TIE BARS
LOCATION DETAILS
FOR OTHER DETAILS SEE STANDARD PLANS







LIMIT OF CONCRETE PAVEMENT
LOCATION 3
(TEJON SRRA)



TRUCK PARKING
JOINTED PLAIN CONCRETE PAVEMENT
DOWEL BARS AND TIE BARS
LOCATION DETAILS
FOR OTHER DETAILS SEE STANDARD PLANS

CONSTRUCTION DETAILS
C-7

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 15-NOV-2010
10-04-10 TIME PLOTTED => 09:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	13	38

Zhi Zhan Lin 10-04-10
REGISTERED CIVIL ENGINEER DATE

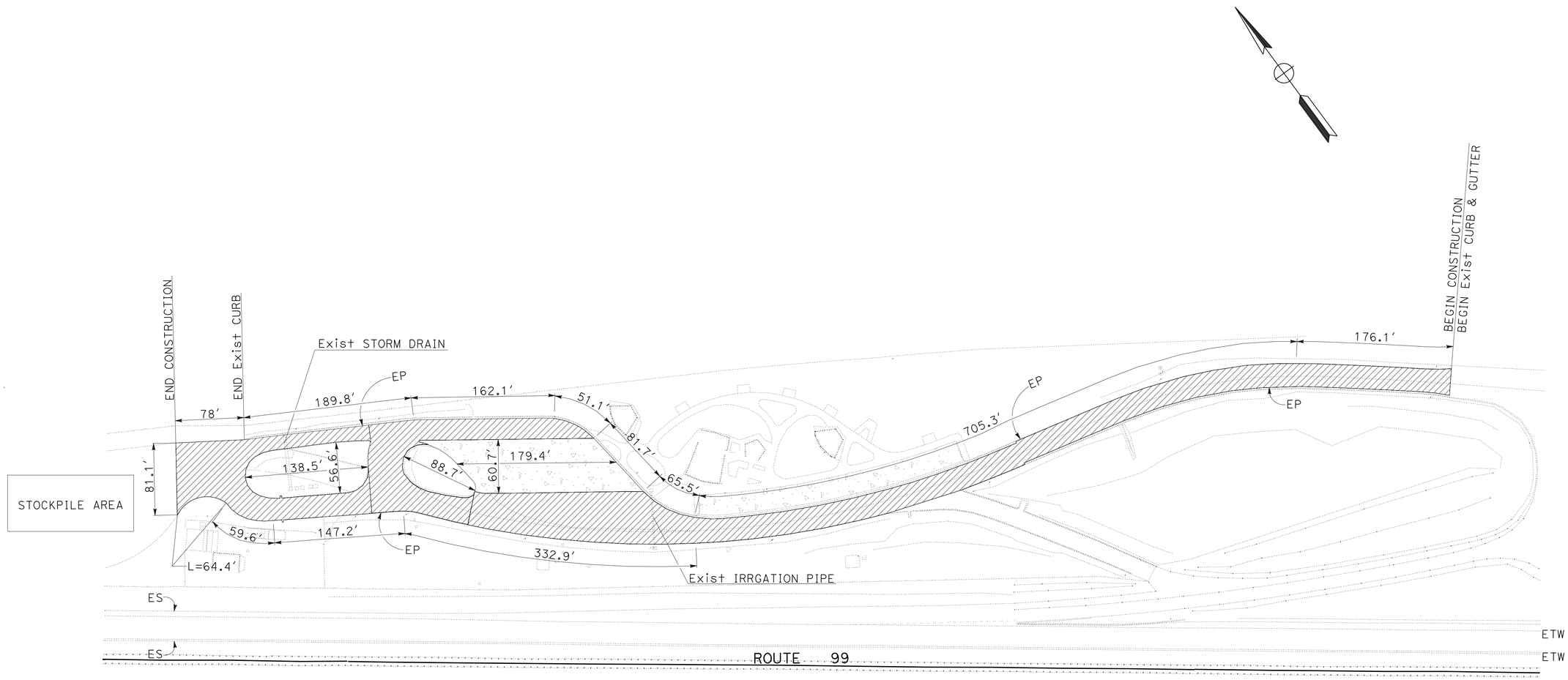
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
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.

LEGEND

COLD PLANE AC Pvmt
HMA (Type A)



LIMIT OF WORK
LOCATION 4
(WARLOW SRRA)

CONSTRUCTION DETAILS
C-8

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	14	38

Zhi Zhan Lin 10-04-10
REGISTERED CIVIL ENGINEER DATE

11-8-10
PLANS APPROVAL DATE

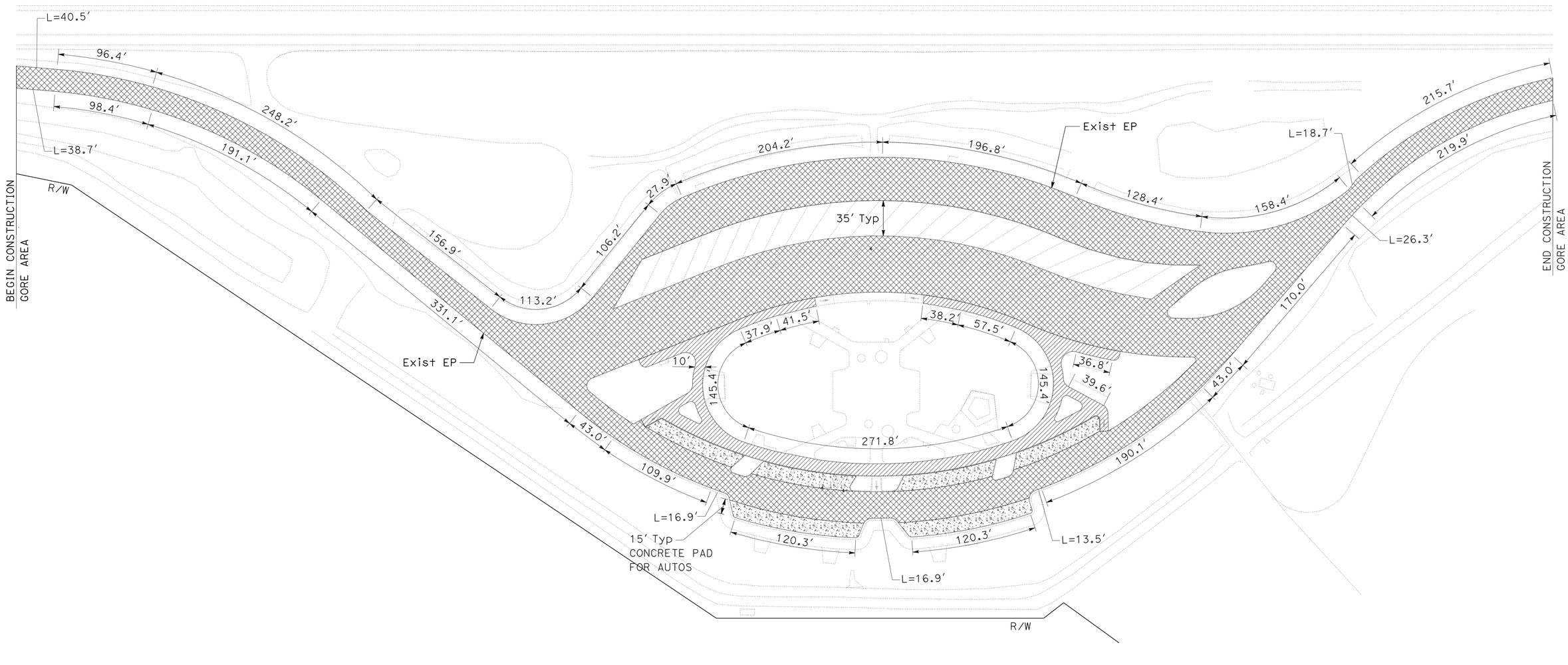
REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

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.

LEGEND

- COLD PLANE AC Pvmt
  JOINTED PLAIN CONCRETE Pvmt
- COLD PLANE AC Pvmt
  HMA (Type A)
  GEOSYNTHETIC Pvmt INTERLAYER
  CRACK TREATMENT
- ROADWAY EXCAVATION
  MINOR CONCRETE
  (SIDEWALK)
- Exist CONCRETE PADS
  AND PLANTING
  AREAS TO REMAIN

ROUTE 5



LIMITS OF WORK
NORTHBOUND
LOCATION 5
COALINGA SRRA

CONSTRUCTION DETAILS
C-9

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	15	38

Zhi Zhan Lin 10-04-10
REGISTERED CIVIL ENGINEER DATE

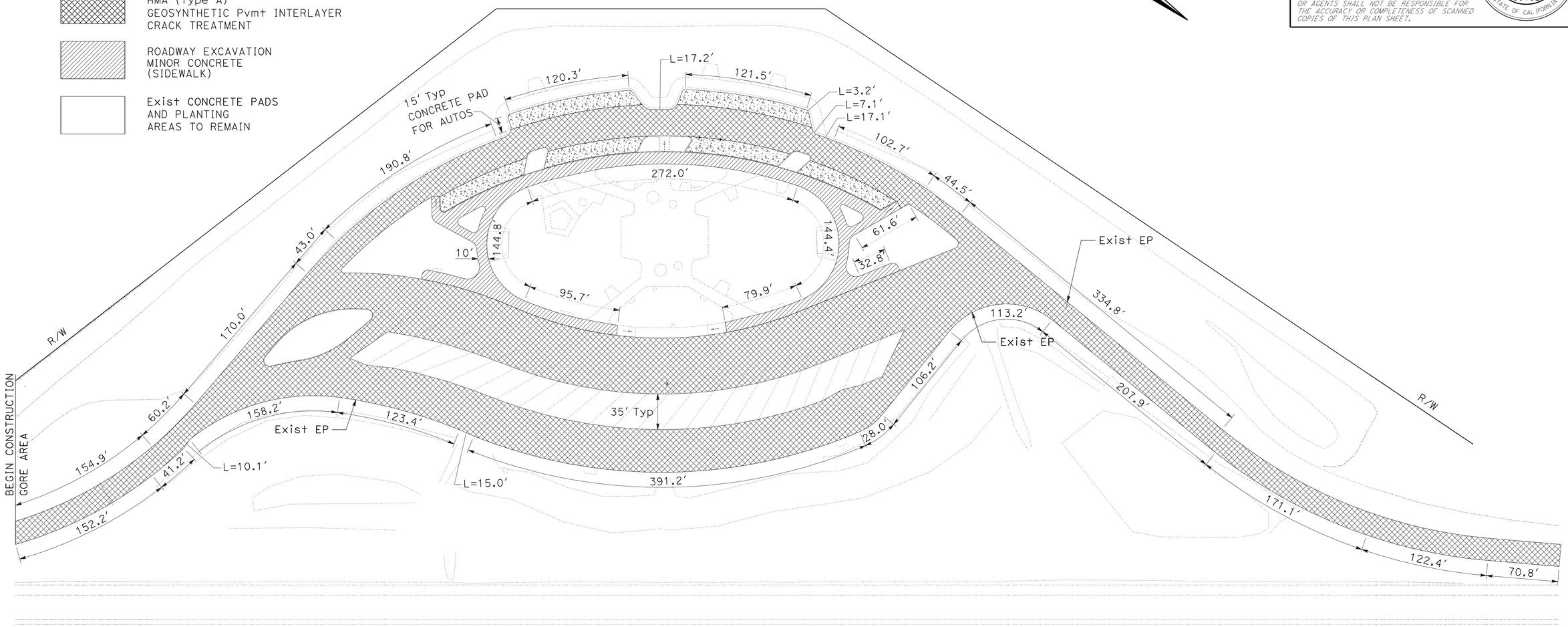
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
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.

LEGEND

- COLD PLANE AC Pvmt
  JOINTED PLAIN CONCRETE Pvmt
- COLD PLANE AC Pvmt
  HMA (Type A)
  GEOSYNTHETIC Pvmt INTERLAYER
  CRACK TREATMENT
- ROADWAY EXCAVATION
  MINOR CONCRETE
  (SIDEWALK)
- Exist CONCRETE PADS
  AND PLANTING
  AREAS TO REMAIN



ROUTE 5

LIMITS OF WORK
SOUTHBOUND
LOCATION 5
COALINGA SRRA

CONSTRUCTION DETAILS
C-10

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10
DATE PLOTTED => 15-NOV-2010
TIME PLOTTED => 09:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	16	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

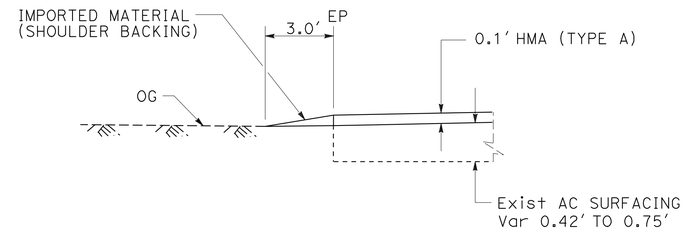
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MATTHEW GOIKE No. 63638 Exp 9/31/10 CIVIL STATE OF CALIFORNIA

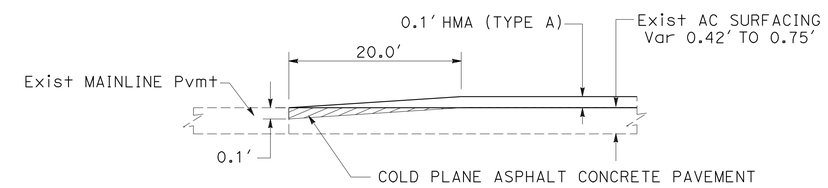
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

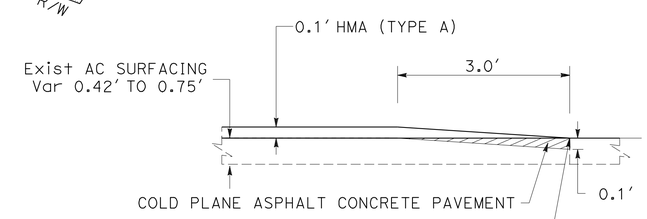
- 0.1′ HMA (TYPE A)
- COLD PLANE AC Pvmt
- IMPORTED MATERIAL (SHOULDER BACKING)

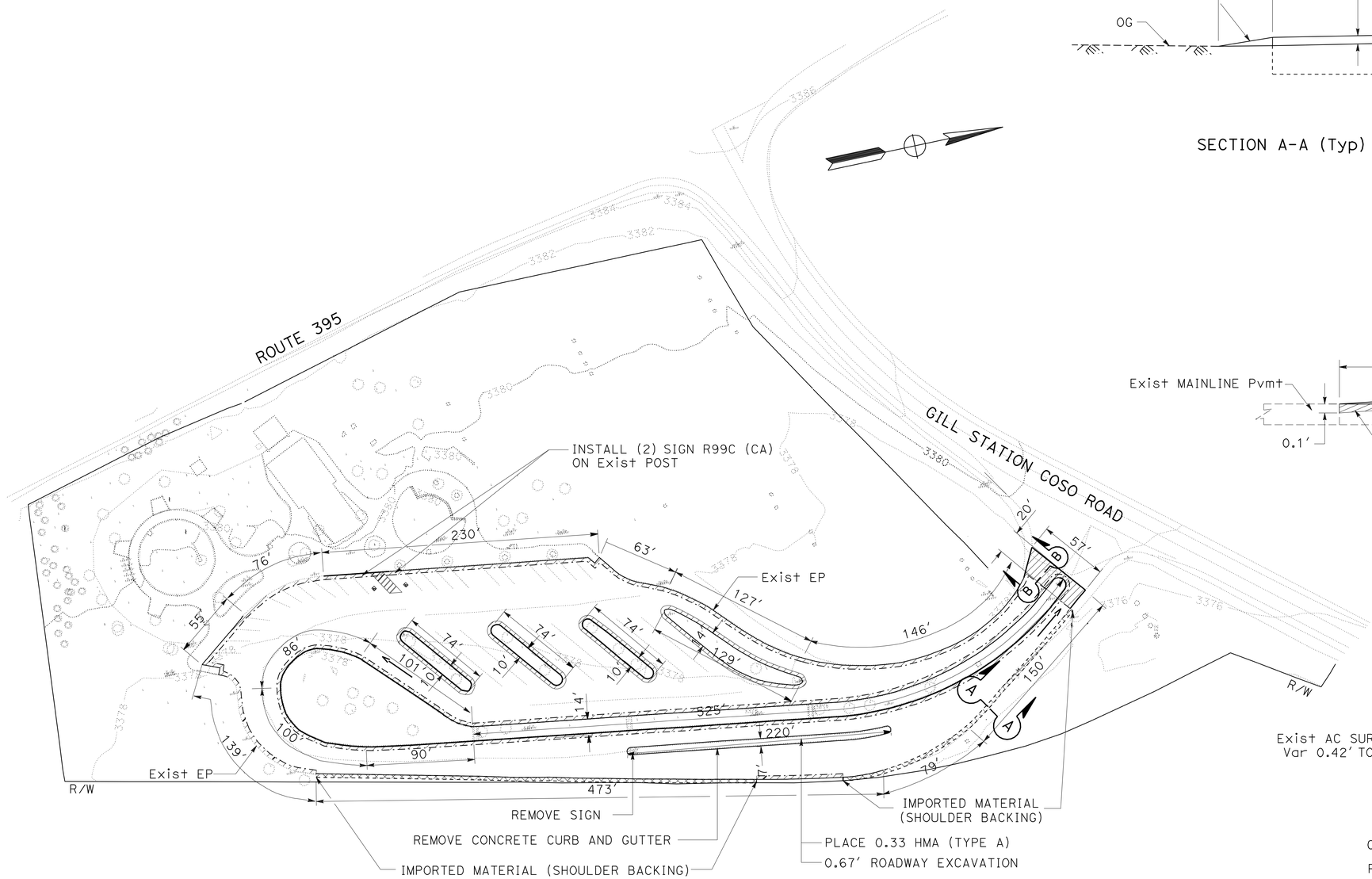


SECTION A-A (Typ)



SECTION B-B (Typ)





LIMIT OF WORK
LOCATION 6
COSO JUNCTION SRRA

CONSTRUCTION DETAILS

NO SCALE **C-11**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: JOHN FOX
CALCULATED-DESIGNED BY: MATTHEW GOIKE
CHECKED BY: MALISSA REYNOLDS
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	17	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

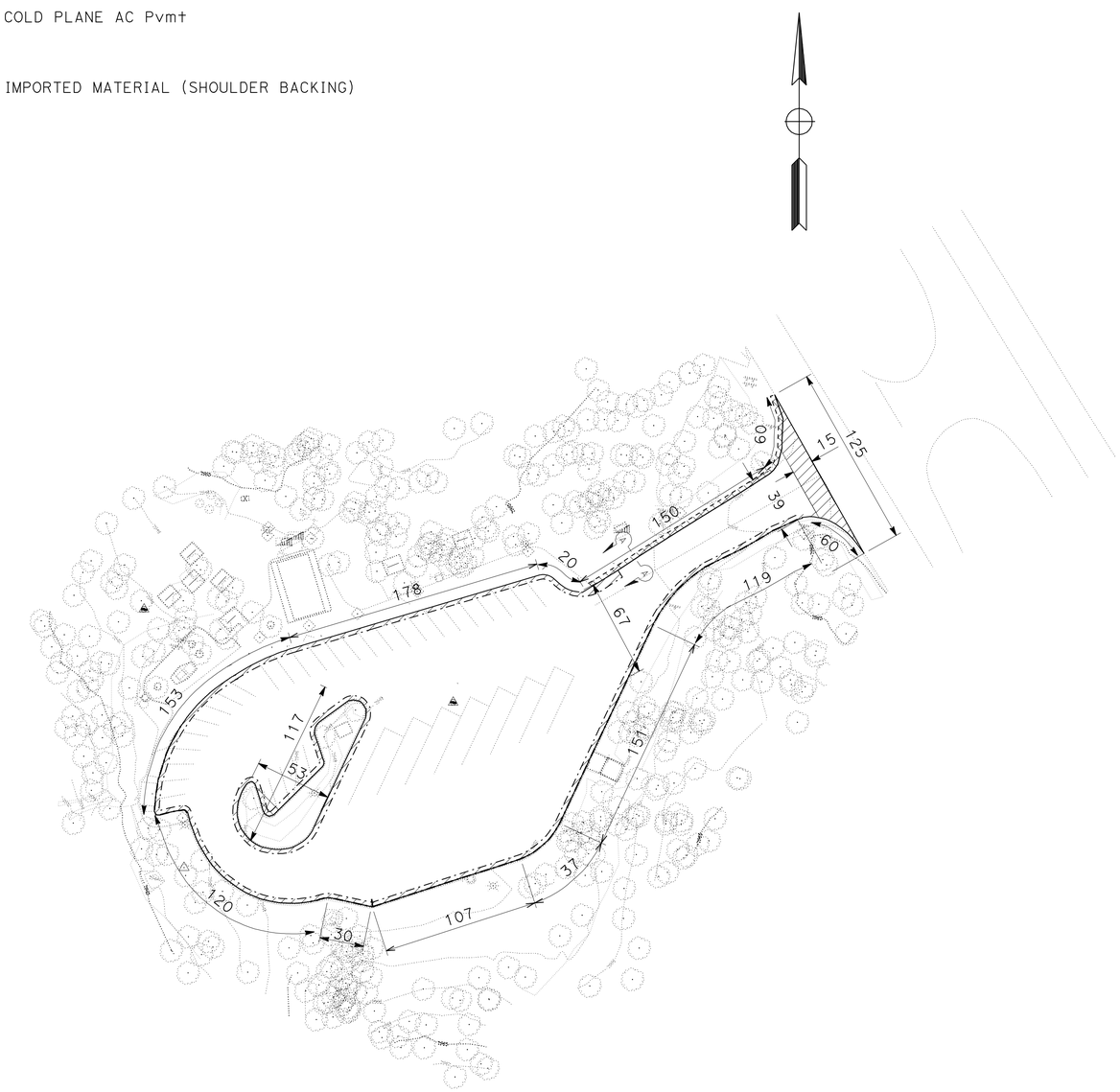
11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MATTHEW GOIKE No. 63638 Exp 9/31/10 CIVIL STATE OF CALIFORNIA

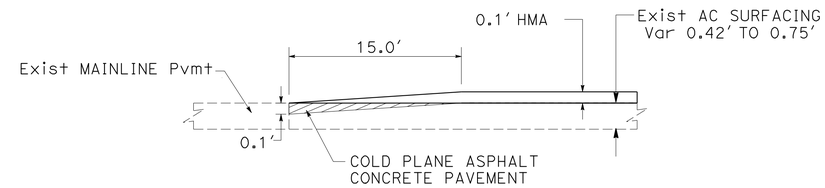
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

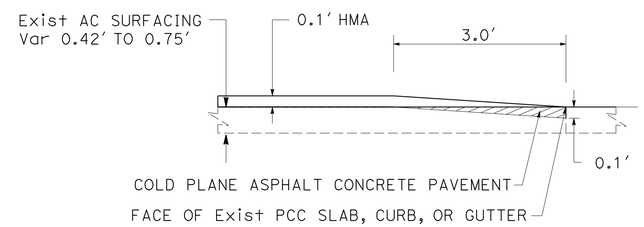
LEGEND

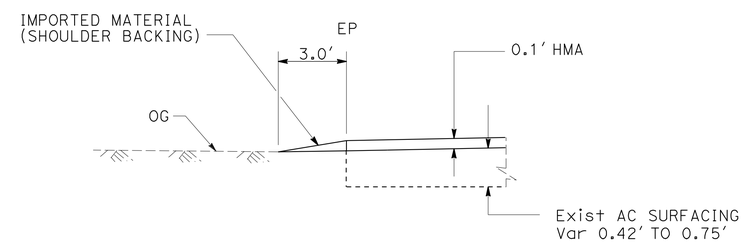
- COLD PLANE AC Pvmt
- IMPORTED MATERIAL (SHOULDER BACKING)



LIMIT OF WORK
LOCATION 7







SECTION A-A (Typ)

CONSTRUCTION DETAILS

NO SCALE **C-12**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: JOHN FOX

CALCULATED-DESIGNED BY: MATTHEW GOIKE
CHECKED BY: MALISSA REYNOLDS

REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 15-NOV-2010
10-04-10 TIME PLOTTED => 09:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	18	38

REGISTERED CIVIL ENGINEER 10-04-10 DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ZHI ZHAN LIN No. 60881 Exp. 12-31-10 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.

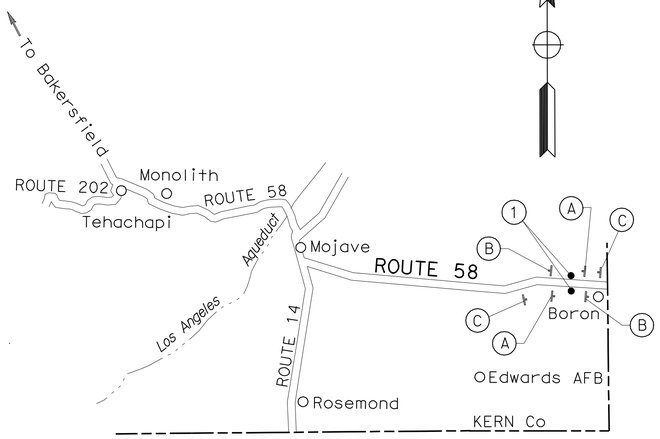
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS	INSTALL SIGN OVERLAY (N)
A	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	13	
B	G20-2	36" X 18"	END ROAD WORK	1 - 4" x 4"	13	
C	D5-1/D5-2	53" X 96"				11

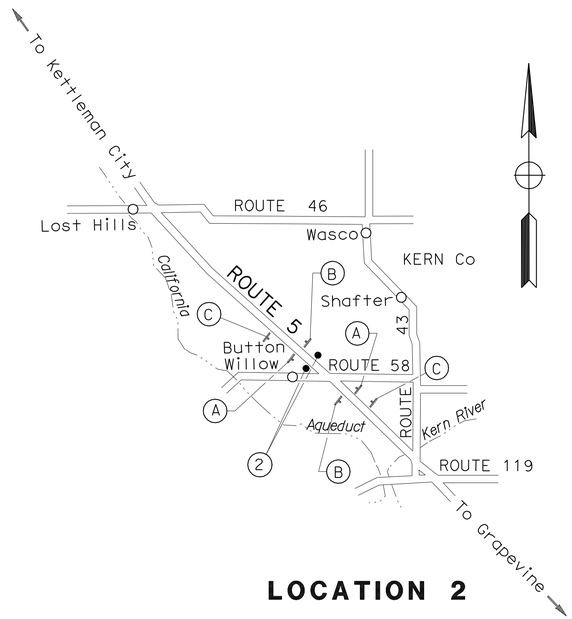
NOTE: SIGN LOCATIONS SHOWN ARE APPROXIMATE.
EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

D5-1 REST AREA 1 MILE — OVERLAY "CLOSED" ON THE EXISTING SIGN

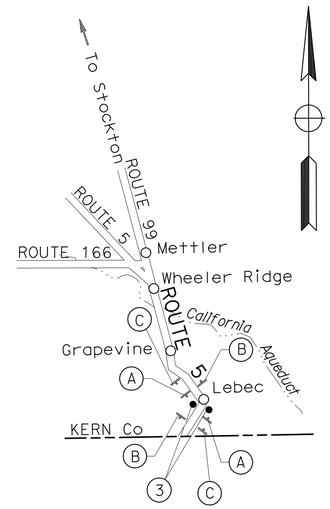
D5-2 REST AREA — OVERLAY "CLOSED" ON THE EXISTING SIGN



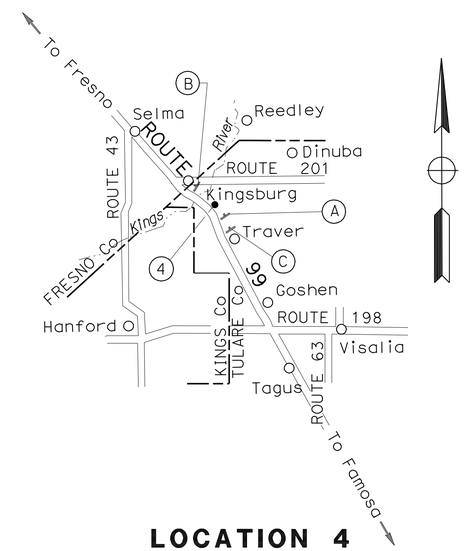
LOCATION 1



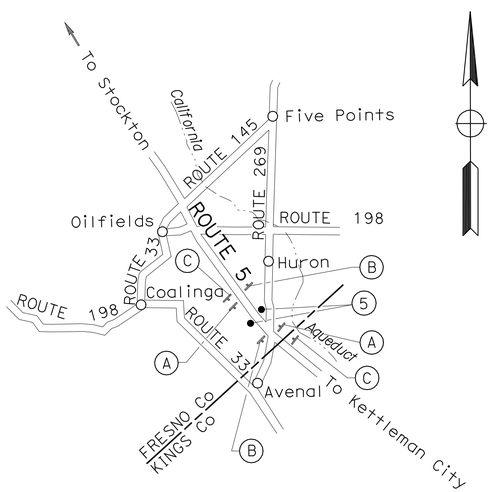
LOCATION 2



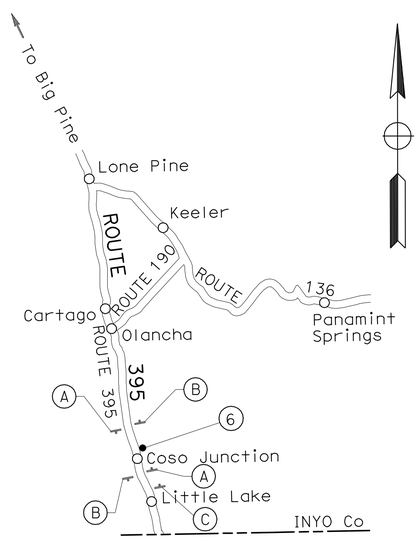
LOCATION 3



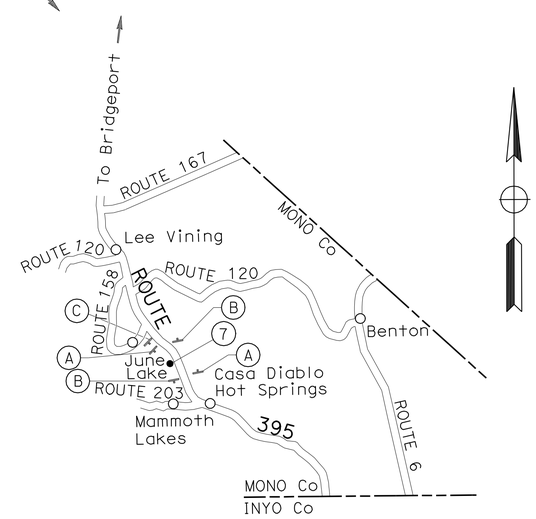
LOCATION 4



LOCATION 5



LOCATION 6



LOCATION 7

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: ZHI ZHAN LIN
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	19	38

Lin Zhi Zhan 10-04-10
REGISTERED CIVIL ENGINEER DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL	THERMOPLASTIC TRAFFIC STRIPE	PAINT TRAFFIC STRIPE (2-COAT)	PAVEMENT MARKER (RETROREFLECTIVE)			PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	REMOVE PAVEMENT MARKING	PAINT PAVEMENT MARKING (2-COAT)		THERMOPLASTIC PAVEMENT MARKING	
		4" SOLID	4" SOLID	TYPE D TWO-WAY YELLOW	TYPE G ONE-WAY CLEAR	TYPE H ONE-WAY YELLOW	TYPE H ONE-WAY YELLOW					
		LF	LF	EA	EA	EA	EA	SQFT	DESCRIPTION	SQFT	DESCRIPTION	SQFT
LOCATION 1	24		1,830					512			2-TYPE I 24'-0" ARROW	62
	27B		8,050								12-TYPE V ARROW	396
	4" BLUE		220								5-DISABLED PERSONS PARKING SYMBOL (WHITE)	20
											5-DISABLED PERSONS BACKGROUND (BLUE)	45
											3-KEEP CLEAR	153
											2-CHP	30
LOCATION 2	25A		1,921			81					12-TYPE I 18'-0" ARROW	300
	27B		4,388								6-TYPE V ARROW	198
	38	330			40						8-DISABLED PERSONS PARKING SYMBOL (WHITE)	72
	38A	1,645									8-DISABLED PERSONS PARKING SYMBOL (BLUE)	112
	4" WHITE		8,100								CROSSWALK	940
	4" BLUE		562								2-CHP MARKING	30
LOCATION 3	25A		2,120				92		13-TYPE I 10'-0" ARROW	182		
	27B		2,120						8-DISABLED PERSONS PARKING SYMBOL (WHITE)	72		
	4" WHITE		5,000						8-DISABLED PERSONS PARKING SYMBOL (BLUE)	112		
LOCATION 4	22	3,000		129							2-TYPE I 10'-0" ARROW	28
	25A	1,300				56					1-TYPE IV (L) ARROW	15
	27B	1,300									1-DISABLED PERSONS PARKING SYMBOL (WHITE)	9
											1-DISABLED PERSONS PARKING SYMBOL (BLUE)	14
LOCATION 5	25A	992				42					6-TYPE I 10'-0" ARROW	84
	27B	1,373									3-DISABLED PERSONS PARKING SYMBOL	27
	4" BLUE	190									3-DISABLED PERSONS PARKING SYMBOL	42
	4" WHITE	2,717										
LOCATION 6	27B		1,210					107			2-TYPE V ARROW	66
	4" BLUE		100								2-DISABLED PERSONS PARKING SYMBOLS	8
											2-DISABLED PERSONS SYMBOLS BACKGROUND	18
											1-CHP	15
LOCATION 7	21		180					97	2-DISABLED PERSONS PARKING SYMBOLS	8		
	27B		1,240						2-DISABLED PERSONS SYMBOLS BACKGROUND	18		
	4" BLUE		100						1-CHP	15		
									4-TYPE I 10'-0" ARROW	56		
									2-"STOP"	44		
									1-"AHEAD"	31		
									1' WHITE LIMIT LINE	33		
SUBTOTAL		12,847	37,141	129	40	179	92	716		571		2684
TOTAL		12,847	37,141	348			92	716		571		2684

REVISED BY | DATE REVISED
ZHI ZHAN LIN | RENE SANCHEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RENE SANCHEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

PAVEMENT DELINEATION QUANTITIES
PDQ-1

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	20	38

Zhi Zhan Lin 10-04-10
REGISTERED CIVIL ENGINEER DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ZHI ZHAN LIN
No. 60881
Exp. 12-31-10
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.

L - LENGTH OF SIGN
D - DEPTH OF SIGN

SIGN SUMMARY

LOCATION	CODE	MESSAGE	SIZE (L x D)	ROADSIDE SIGN - ONE POST	INSTALL ROADSIDE SIGN PANEL ON EXISTING POST	REMOVE ROADSIDE SIGN	SIGN MATERIALS: FURNISH SINGLE SHEET ALUMINUM SIGN 0.063" UNFRAMED	SINGLE FACED	BACKGROUND: SHEETING COLOR	BACKGROUND: RETROREFLECTIVE ASTM TYPE	LEGEND: SHEETING COLOR	LEGEND: RETROREFLECTIVE ASTM TYPE	GRAFFITI FILM: STANDARD	GRAFFITI FILM: PREMIUM	SQUARE METAL POSTS: SIZE
				EA	EA	EA	SQFT								
1	R99C(CA)	ADA PARKING ONLY	12" x 24"	1	5		10.0	X	BLUE	VII	WHITE		X		2" x 2"
6	R99C(CA)	ADA PARKING ONLY	12" x 24"		2	1	4.0	X	BLUE	VII	WHITE		X		2" x 2"
7	R99C(CA)	ADA PARKING ONLY	12" x 24"		2		4.0	X	BLUE	VII	WHITE		X		2" x 2"
		TOTAL		1	9	1	18.0								

ROADWAY QUANTITIES

LOCATION	ROUTE	TEMPORARY FIBER ROLL	ROADWAY EXCAVATION	COLD PLANE ASPHALT CONCRETE PAVEMENT	DRAINAGE INLET MARKER	JOINTED PLAIN CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE A)	CRACK TREATMENT	GEOSYNTHETIC PAVEMENT INTERLAYER	PAVING ASPHALT (BINDER, GEOSYNTHETIC PAVEMENT INTERLAYER)	TACK COAT	SEAL PAVEMENT JOINT	IMPORTED MATERIAL (SHOULDER BACKING)	REMOVE CONCRETE	MINOR CONCRETE (SIDEWALK)
		LF	CY	SQYD	EA	CY	TON	LNMI	SQYD	TON	TON	LF	TON	CY	CY
LOCATION 1	Ker 58	180		8,610			3,260				16		160		
LOCATION 2	Ker 5	335		28,904	4	456	3,361	3.6	25,468	23		6,500			
LOCATION 3	Ker 5	575	900	42,200	26	1470	7,220	4.0	21,100	23	5	16,000			
LOCATION 4	Tul 99	160		6,720			1,320				2				
LOCATION 5	Fre 5	470	390	29,000	10	282	4,250		27,000	30		3,000			390
LOCATION 6	Iny 395	55	90	1,340			670				4		13	12	
LOCATION 7	Mno 395	25		590			440				3		4		
TOTAL		1800	1380	117,364	40	2208	20,521	7.6	73,568	76	30	25,500	177	12	390

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
ZHI ZHAN LIN | RENE SANCHEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RENE SANCHEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	21	38

REGISTERED ELEC. ENGINEER 10-04-10 DATE

11-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCHELL NGO No. 18920 Exp 12-31-11 ELEC STATE OF CALIFORNIA

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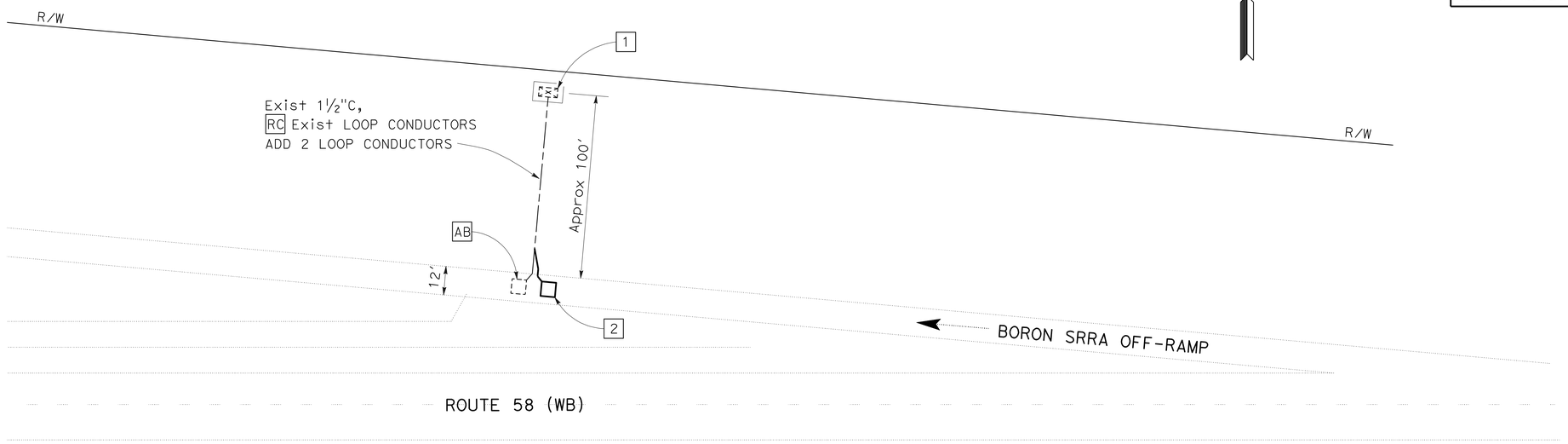
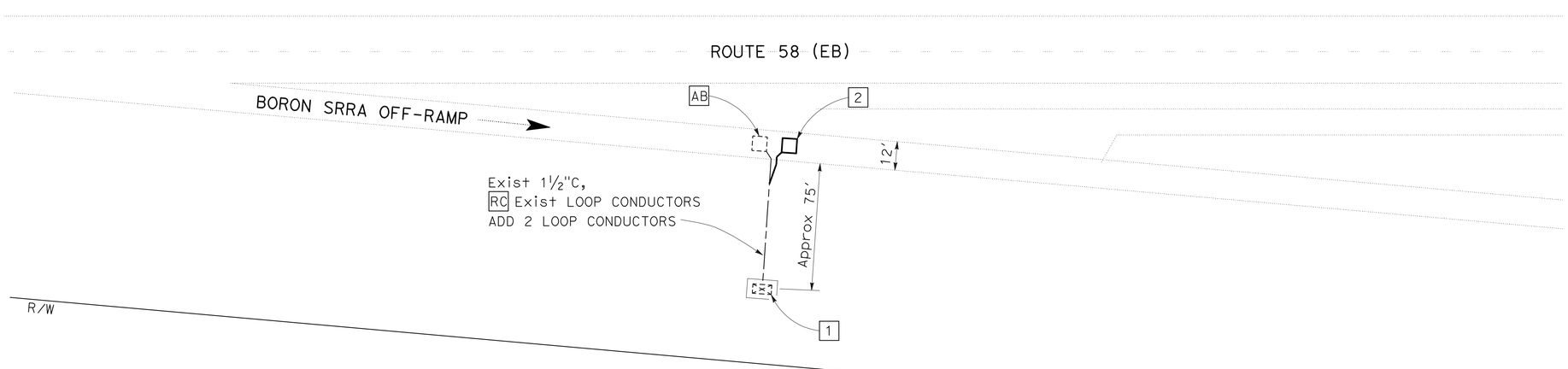
NOTES:

1. COIL 6′ OF LOOP CONDUCTORS IN EXISTING TYPE M CABINET.
2. DETECTOR LOOP SHALL BE INSTALLED WITH 4 TURNS OF LOOP WIRE.



WESTBOUND
BORON SAFETY ROADSIDE REST AREA



EASTBOUND
BORON SAFETY ROADSIDE REST AREA

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

DETECTOR LOOP

NO SCALE

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: JOHN FOX

CALCULATED-DESIGNED BY: MITCHELL NGO
CHECKED BY: MATTHEW GOIKE
REVISED BY
DATE REVISED

LAST REVISION 10-04-10 | DATE PLOTTED => 15-NOV-2010 | TIME PLOTTED => 09:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	22	38

REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Michael Janzen No. 44788 Exp. 03-31-08 CIVIL STATE OF CALIFORNIA

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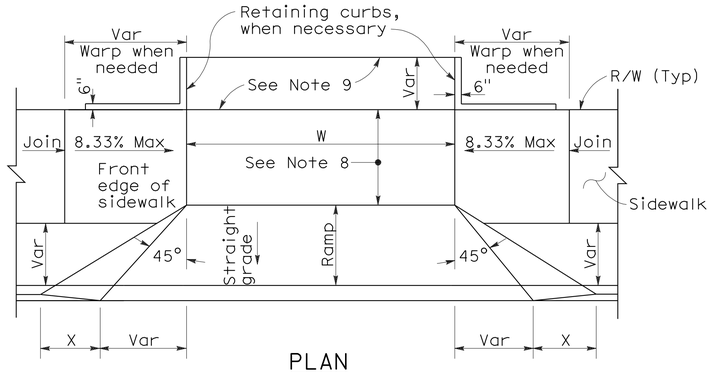
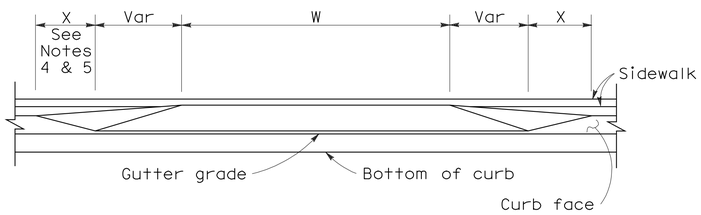
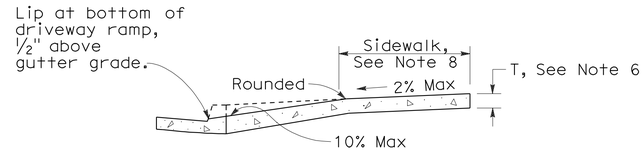
To accompany plans dated 11-8-10



PLAN

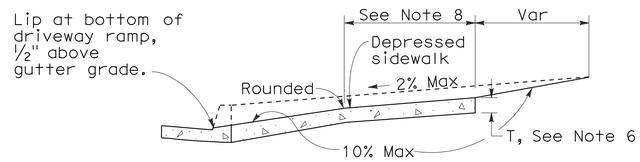


ELEVATION



CASE A

Typical driveway, sidewalk not depressed



CASE B

Driveway with depressed sidewalk

SECTIONS

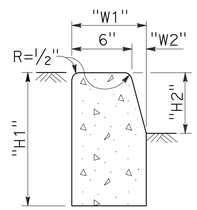
CURB QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

TABLE A

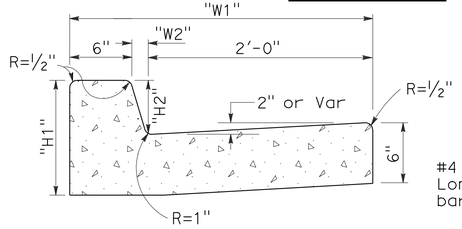
CURB TYPE	DIMENSIONS "H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7½"	1½"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7½"	1½"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7¼"	1¼"
A3-8	8"	7"	7¾"	1¾"
B1-4	1'-0"	4"	7½"	2½"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7½"	2½"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8½"	3½"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-8"

DRIVEWAYS



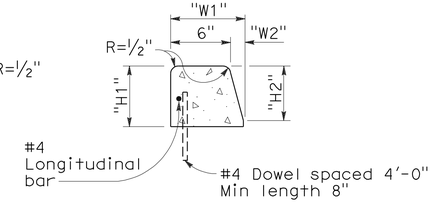
TYPE A1 CURBS

See Table A



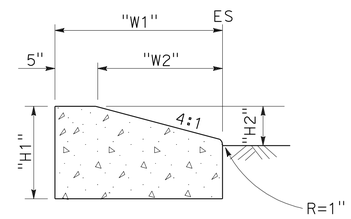
TYPE A2 CURBS

See Table A



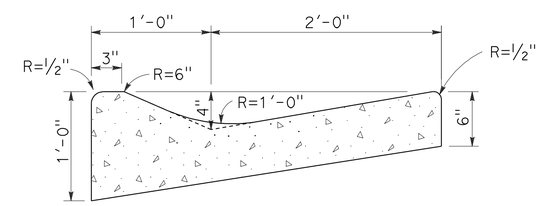
TYPE A3 CURBS

Superimposed on existing pavement
See Table A

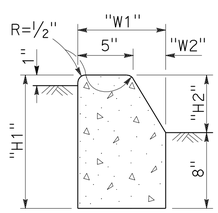


TYPE D CURBS

See Table A

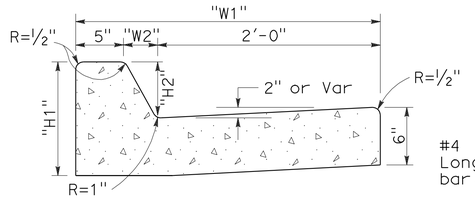


TYPE E CURB



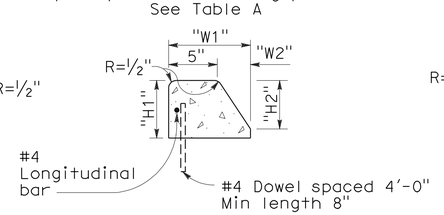
TYPE B1 CURBS

See Table A



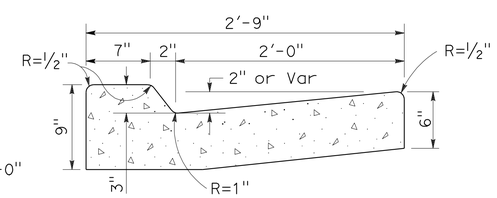
TYPE B2 CURBS

See Table A

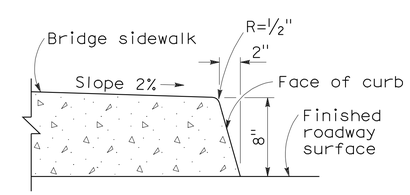


TYPE B3 CURBS

Superimposed on existing pavement
See Table A



TYPE B4 CURBS



TYPE H CURB

On Bridges

CURBS

NOTES:

1. Case A driveway section typically applies.
2. Use Case B driveway section when ramp slopes would exceed 10% in Case A.
3. Use Case B driveway section when sidewalk cross slope would exceed 2% in Case A.
4. X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
5. X is a variable when sidewalk is located where wheelchairs may traverse the surface. Slopes shall not exceed 8.33%.
6. Sidewalk and ramp thickness "T" at driveway shall be 4" for residental and 6" for commercial.
7. Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
8. Minimum width of clear passageway for sidewalk shall be 4'-0".
9. Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
10. Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CURBS AND DRIVEWAYS

NO SCALE

RSP A87A DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A87A DATED MAY 1, 2006 - PAGE 113 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A87A

2006 REVISED STANDARD PLAN RSP A87A

10-25-06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	23	38

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hector David Cordova No. C41957 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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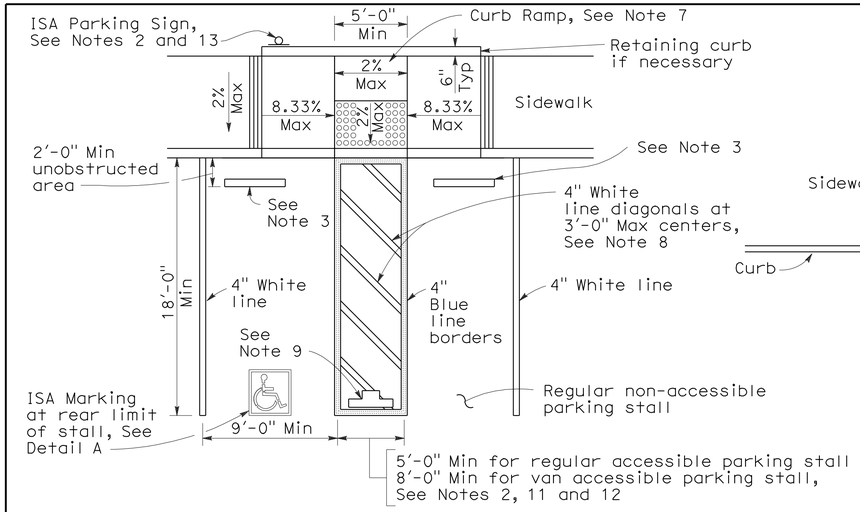
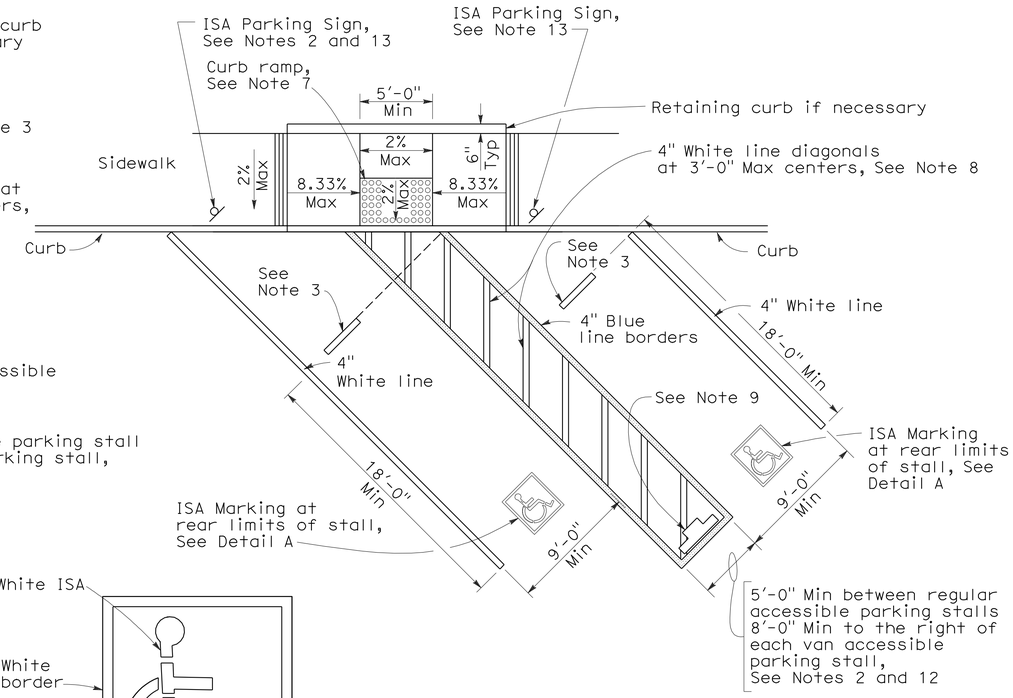
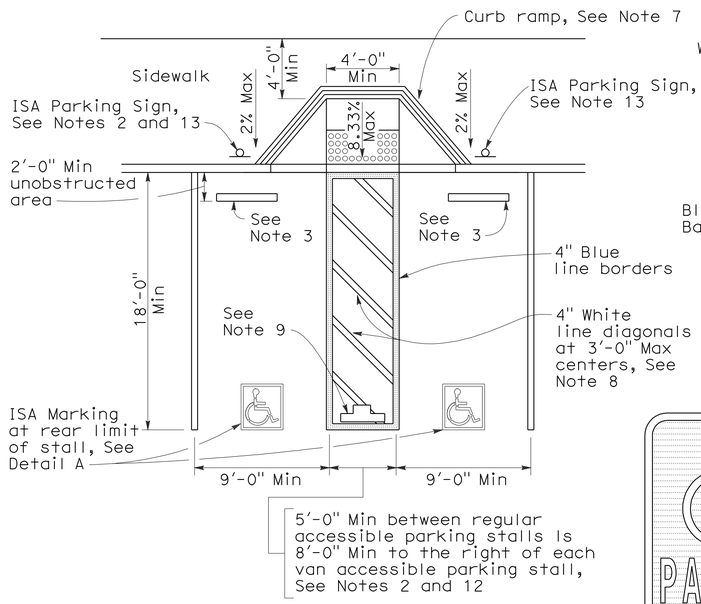
To accompany plans dated 11-8-10



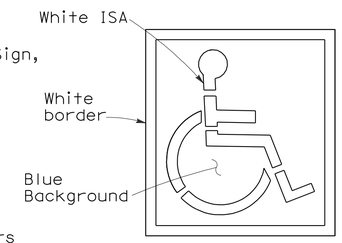
SINGLE PARKING STALL



DIAGONAL DOUBLE PARKING STALLS



DOUBLE PARKING STALL



ISA MARKING
See Revised Std Plan RSP A24C

DETAIL A

TABLE A

Total Number of Parking Spaces or Stalls	Minimum Number of Disabled Accessible Parking Spaces or Stalls
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 percent of total
Greater than 1001	20 plus 1 for each 100 or fraction thereof over 1001

SIGN R99 (CA)

PLAQUE R99B (CA)

SIGN R99 (CA) with PLAQUE R99B (CA)
See Note 6

SIGN R99C (CA)
See Note 6

UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE

TOWED VEHICLES MAY BE RECLAIMED AT
(Insert Address)

OR BY TELEPHONING
(Insert Telephone Number)

SIGN R100B (CA)
See Note 10

SIGN R7-8b
See Notes 2 and 6

OFF-STREET PARKING SIGNS
(Parking lot or garage)
See Note 6

ISA = International Symbol of Accessibility

NOTES:

1. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. In parking facilities that do not serve a particular building, accessible parking shall be located on the shortest accessible route of travel to an accessible pedestrian entrance of the parking facility.
2. One in every eight accessible off-street parking stalls, but not less than one, shall be served by an accessible aisle of 8'-0" minimum width and shall be signed van accessible. The R7-8b sign shall be mounted below the R99B (CA) plaque or the R99C (CA) sign.
3. In each parking stall, a curb or bumper shall be provided and located to prevent encroachment of vehicles over the required width of walkways. Parking stalls shall be so located that persons with disabilities are not compelled to wheel or walk behind parked cars other than their own.
4. Surface slopes of accessible off-street parking stalls shall be the minimum possible and shall not exceed 2 percent in any direction.
5. Table A shall be used to determine the required number of accessible parking stalls in each parking lot or garage.
6. Where Plaque R99B (CA), Sign R99C (CA) or Sign R7-8b are installed, the bottom of the sign or plaque panel shall be a minimum of 7'-0" above the surrounding surface.
7. Curb ramps shall conform to the details shown on Revised Standard Plan RSP A88A.
8. Blue paint, instead of white may be used for marking accessibility aisles in areas where snow may cause white markings to not be visible.
9. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high and located so that it is visible to traffic enforcement officials. See Revised Standard Plan RSP A90B for details of the "NO PARKING" pavement marking.
10. A R100B (CA) sign shall be posted in a conspicuous place at each entrance to off-street parking facilities or immediately adjacent to and visible from each stall. The sign shall include the address where the towed vehicle may be reclaimed and the telephone number of the local traffic law enforcement agency.
11. Where a single (non-van) accessible parking space is provided, the loading and unloading access aisle shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
12. Where a van accessible parking space is provided, the loading and unloading access aisle shall be 8'-0" wide minimum, and shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
13. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA).

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACCESSIBLE PARKING OFF-STREET

NO SCALE

RSP A90A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A90A
DATED MAY 1, 2006 - PAGE 117 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A90A

2006 REVISED STANDARD PLAN RSP A90A

6-3-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	24	38

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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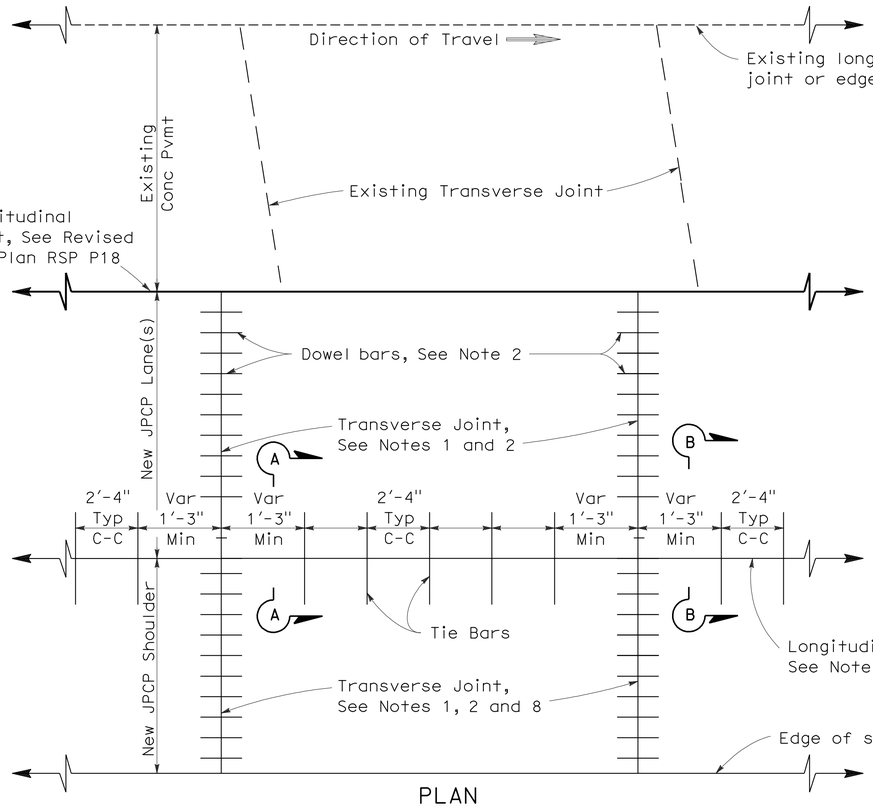
To accompany plans dated 11-8-10

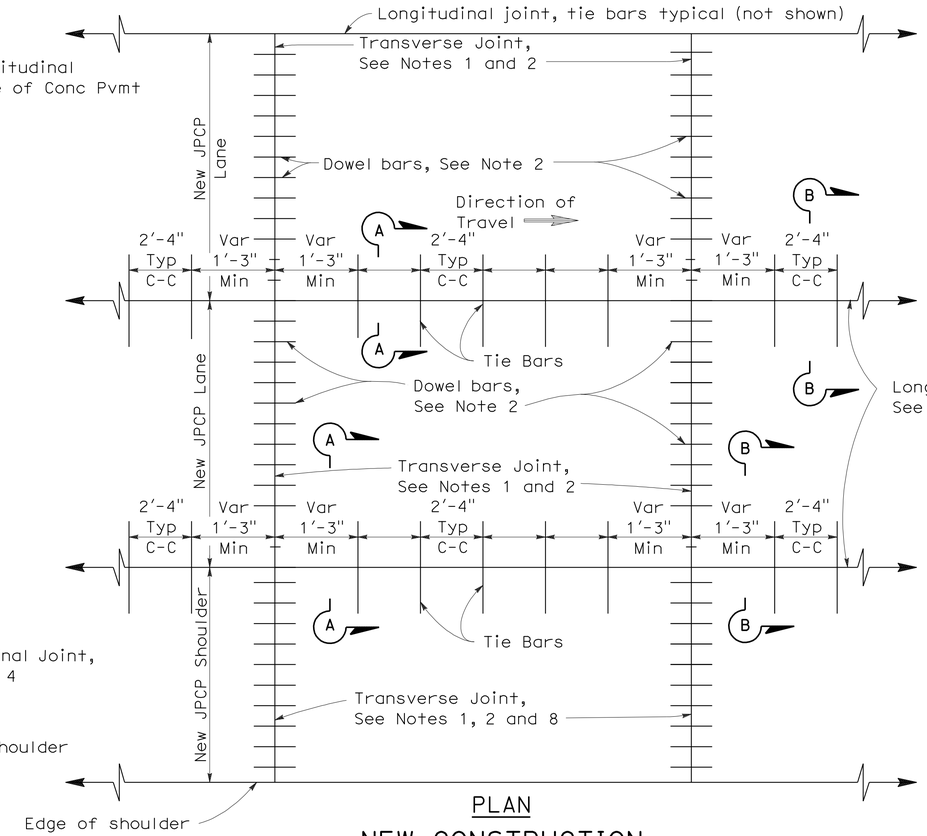
2006 REVISED STANDARD PLAN RSP P1



PLAN

LANE/SHOULDER ADDITION OR RECONSTRUCTION

See Notes 6 and 7



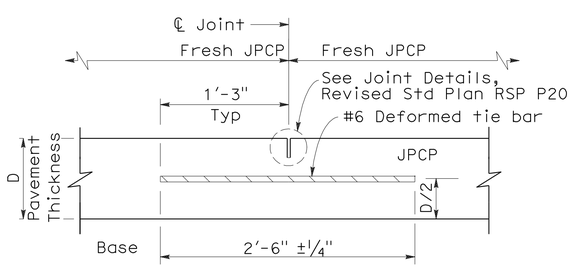
PLAN

NEW CONSTRUCTION

See Notes 6 and 7

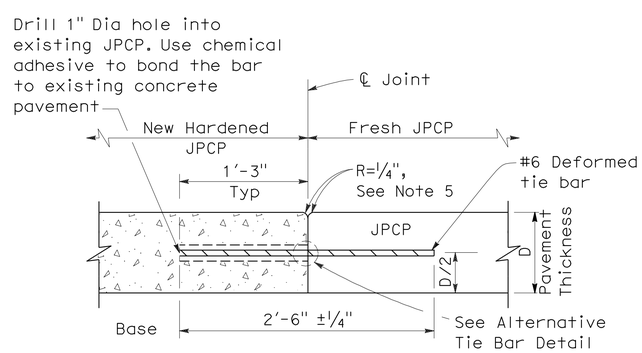
NOTES:

1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new jointed plain concrete pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For transverse joint and dowel bar details not shown, See Revised Standard Plan RSP P10.
3. Construct longitudinal contraction joints as shown in Section A-A when more than one lane or shoulder widths are placed at one time. If constructing one lane at a time, use longitudinal construction joint, as shown in Section B-B.
4. For additional longitudinal joint details, see Revised Standard Plan RSP P18.
5. If fresh concrete is placed adjacent to existing concrete, the top corner of the new hardened concrete does not need to be rounded to the 1/4" radius as shown.
6. Joint spacing patterns do not apply to intersections.
7. Details can also apply to inside widening.
8. Dowel bars may be omitted from shoulders when the shoulder cross slope is not the same as the adjacent traffic lane.



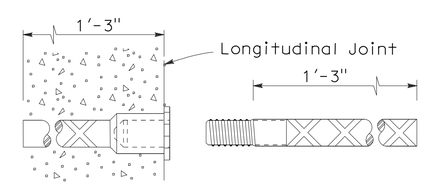
SECTION A-A

LONGITUDINAL CONTRACTION JOINT



SECTION B-B

LONGITUDINAL CONSTRUCTION JOINT



ALTERNATIVE TIE BAR SPLICE DETAIL

(Splice Coupler)

TIE BAR DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT

NO SCALE

RSP P1 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P1
DATED MAY 1, 2006 - PAGE 119 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P1

5-8-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	25	38

William K. Farnbach
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
William K. Farnbach
No. C49042
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

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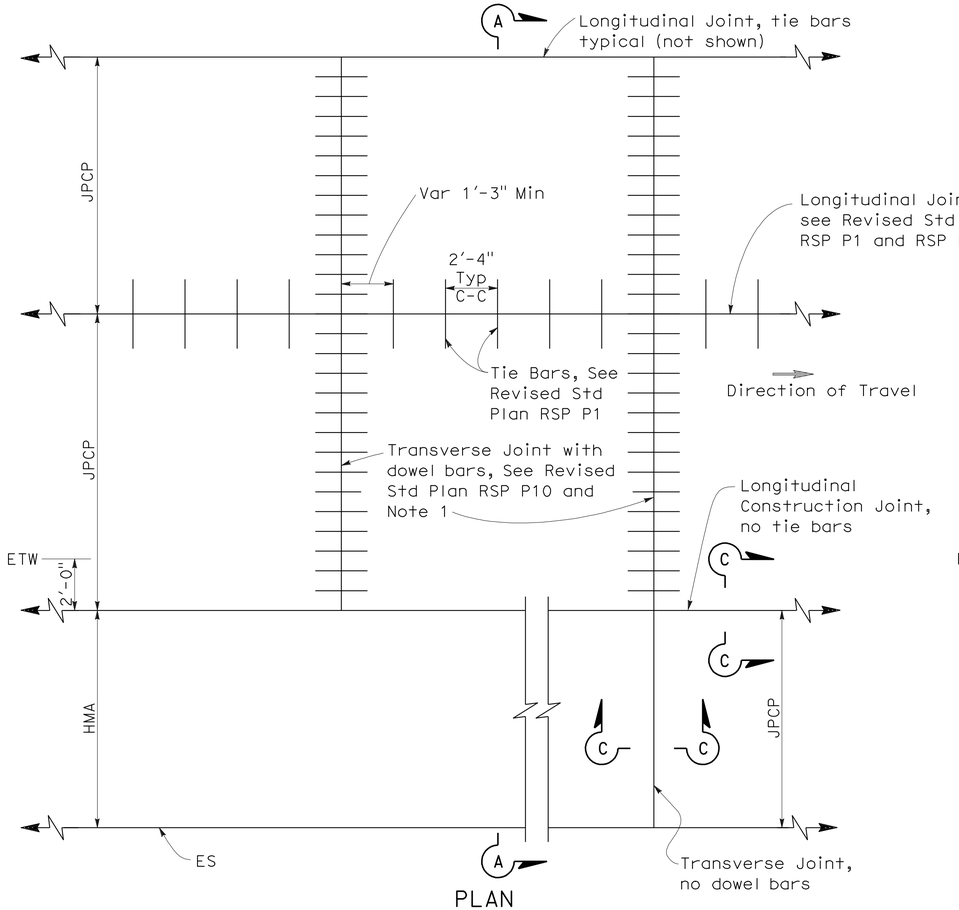
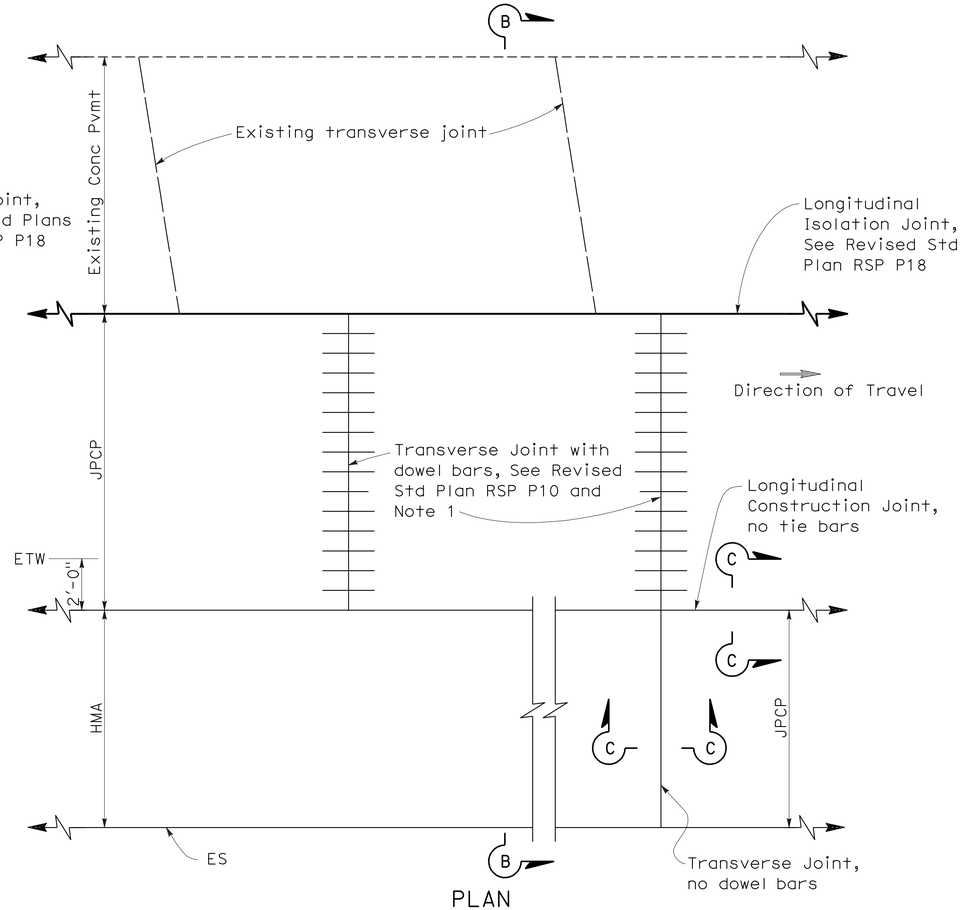
To accompany plans dated 11-8-10



PLAN

NEW CONSTRUCTION

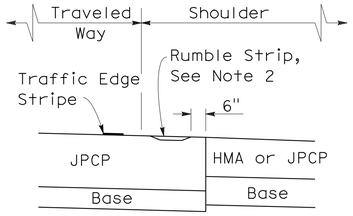


PLAN

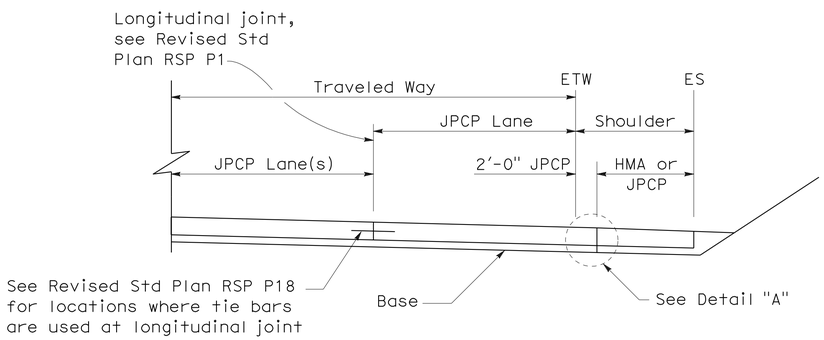
LANE/SHOULDER ADDITION OR RECONSTRUCTION

NOTES:

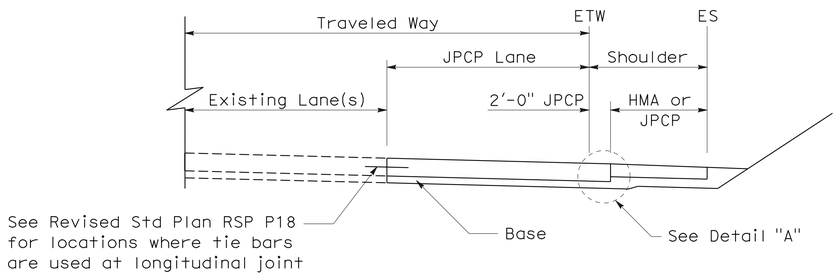
1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new Jointed Plain Concrete Pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For locations of rumble strips, see project plans. For rumble strip details not shown, see Standard Plans A40A and A40B.
3. Joint spacing patterns do not apply to intersections.



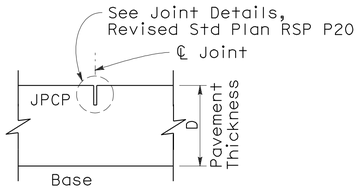
DETAIL "A"



SECTION A-A



SECTION B-B



SECTION C-C

TRANSVERSE/LONGITUDINAL JOINT

(no dowel bars/tie bars)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-WIDENED SLAB DETAILS

NO SCALE

RSP P2 DATED JUNE 5, 2009 SUPERCEDES STANDARD PLAN P2
DATED MAY 1, 2006 - PAGE 120 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P2

2006 REVISED STANDARD PLAN RSP P2

5-19-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	26	38

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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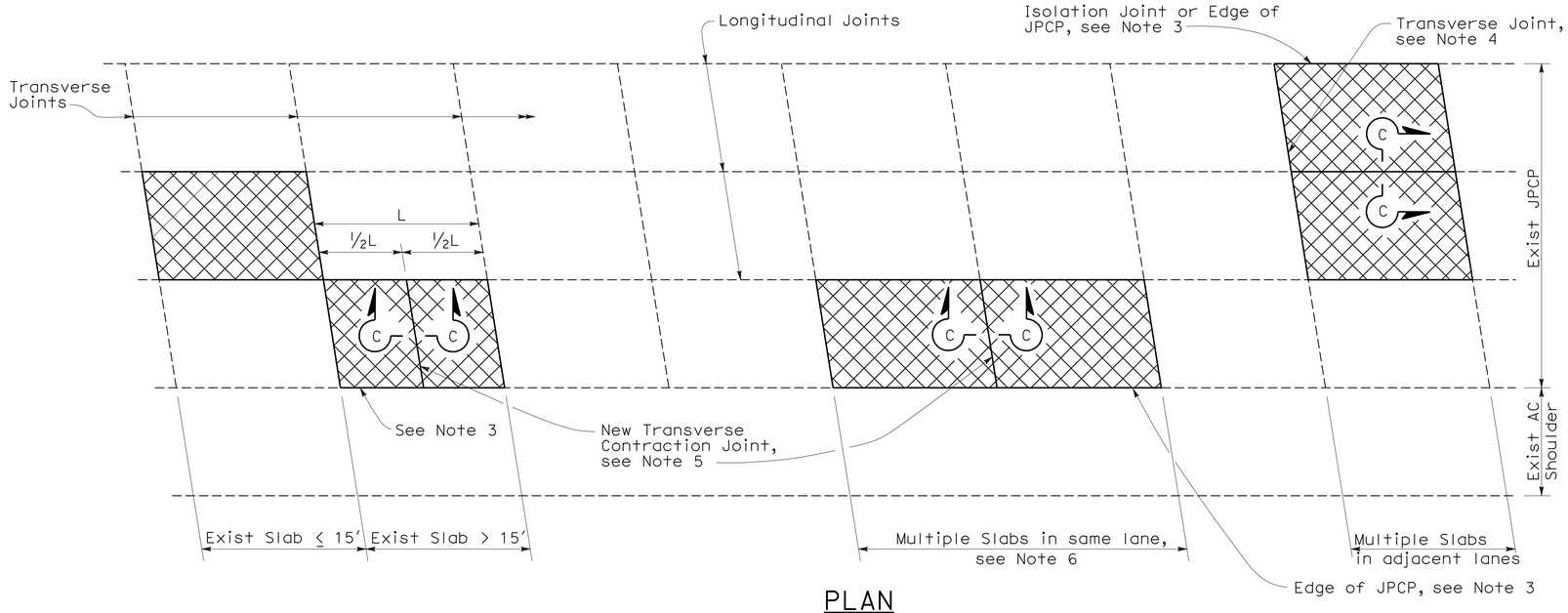
To accompany plans dated 11-8-10



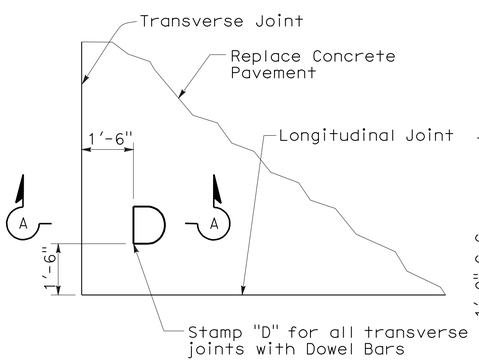
PLAN

NOTES:

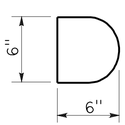
1. For details not shown, see Revised Standard Plan RSP P10.
2. Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 1′-0" and the "b" dimension shall be 2′-0".
3. Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
4. For detail, see Transverse Construction Joint for existing concrete pavement detail on Revised Standard Plan RSP P10.
5. Transverse joint to match skew of existing joint. Omit dowel bars.
6. This Standard Plan only applicable when replacing multiple slabs in the same lane is less than 100′.

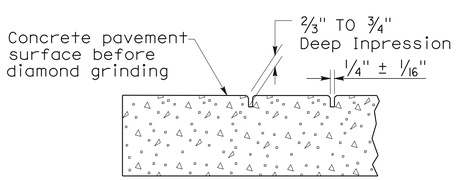
LEGEND

Replace Concrete Pavement (See Slab Layout Detail)

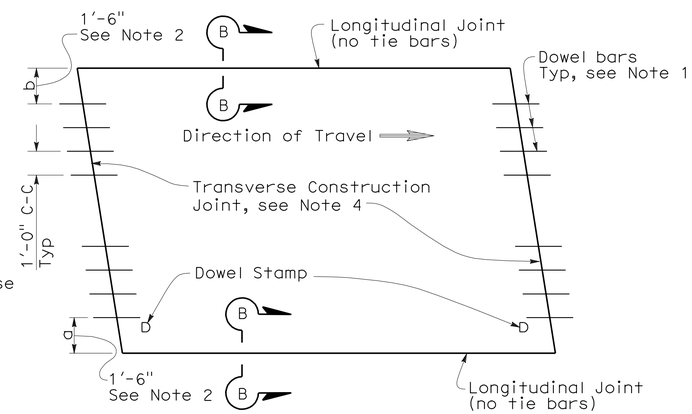


DOWEL STAMP DETAIL

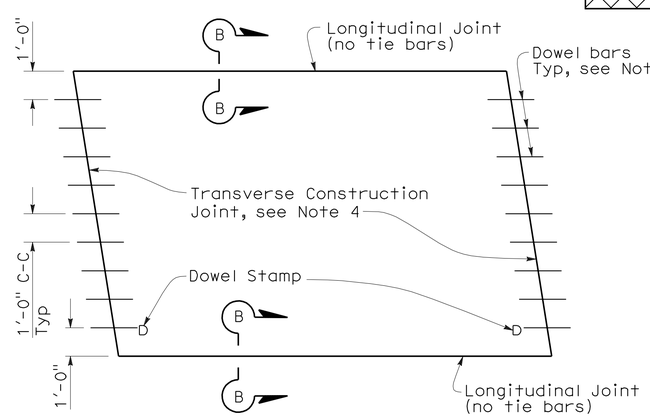




SECTION A-A

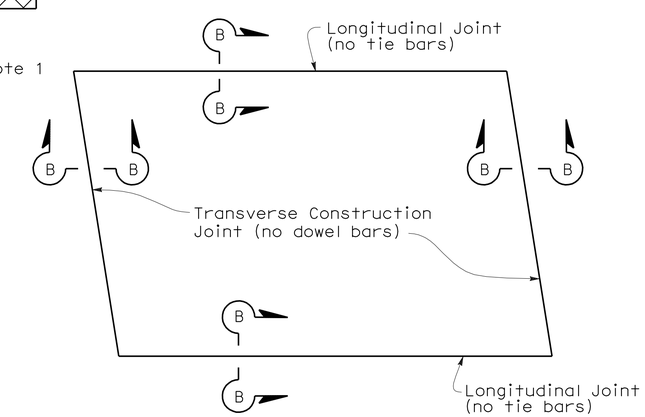


TYPE I
(traffic lane lines match longitudinal joints)

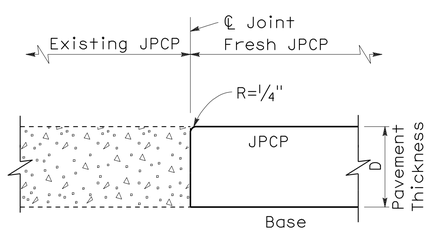


TYPE II
(traffic lane lines do not match longitudinal joints)

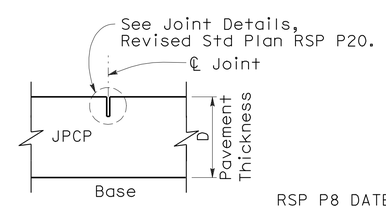
SLAB LAYOUT



TYPE III
(for short term repairs < 5 yrs design life or for slab replacements with a cracking and seating operation)



SECTION B-B



SECTION C-C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-INDIVIDUAL SLAB REPLACEMENT

NO SCALE

RSP P8 DATED MAY 15, 2009 SUPERSEDES RSP P8 DATED SEPTEMBER 1, 2006 AND STANDARD PLAN P8 DATED MAY 1, 2006 - PAGE 123 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P8

2006 REVISED STANDARD PLAN RSP P8

5-8-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	27	38

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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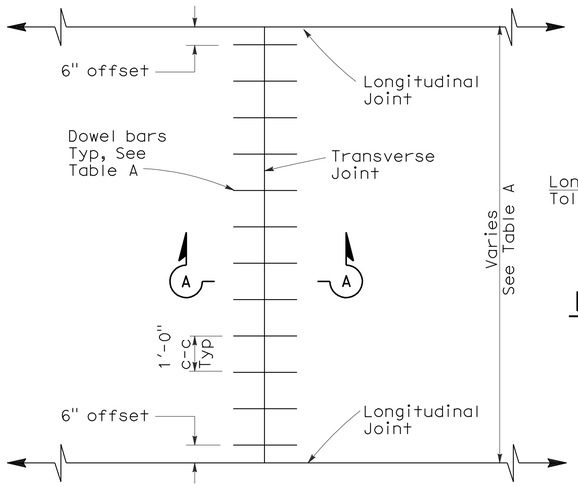
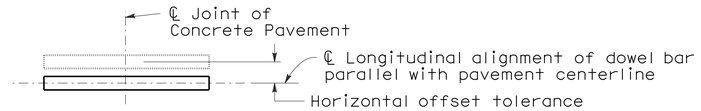
To accompany plans dated 11-8-10

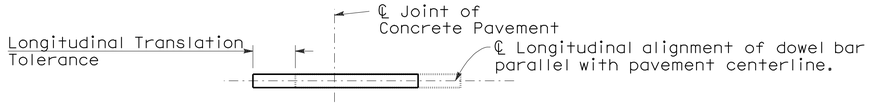


TRANSVERSE JOINT DOWEL BAR LAYOUT



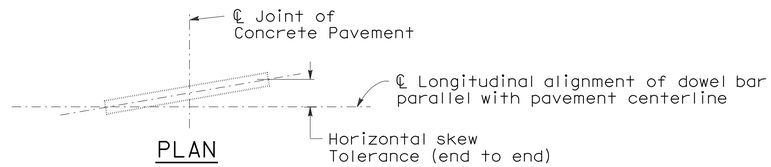
PLAN

HORIZONTAL OFFSET TOLERANCE



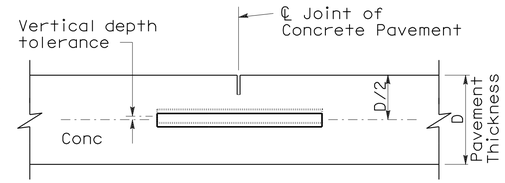
PLAN

LONGITUDINAL TRANSLATION TOLERANCE



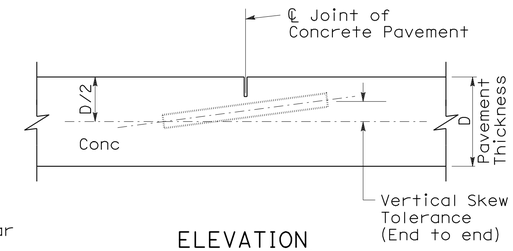
PLAN

HORIZONTAL SKEW TOLERANCE



ELEVATION

VERTICAL DEPTH TOLERANCE



ELEVATION

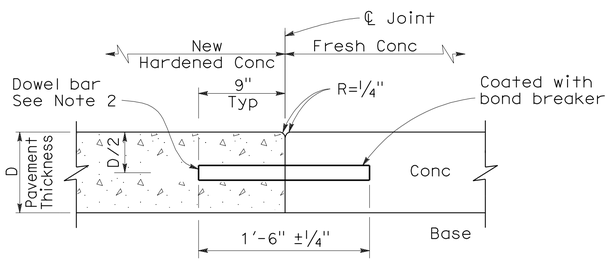
VERTICAL SKEW TOLERANCE

NOTES:

1. See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
2. 1½" Dia smooth dowel bars are to be used with a pavement thickness, D, equal to or greater than 0.70 feet. For pavement thickness, D, less than 0.70 feet, use 1¼" Dia smooth dowel bars.
3. For widths not shown, see Project Plans.
4. If fresh concrete pavement is placed adjacent to existing concrete pavement, the top corner of the existing concrete pavement does not need to be rounded to the ¼" radius, as shown.

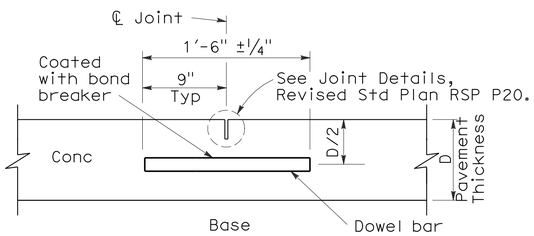
TABLE A (See Note 3)

Dowel Bar Transverse Spacing Table	
Width between Longitudinal Joints	Number of Dowels between Longitudinal Joints
14'-0"	14
13'-0"	13
12'-0"	12
11'-0"	11
10'-0"	10
8'-0"	8
5'-0"	5
4'-0"	4

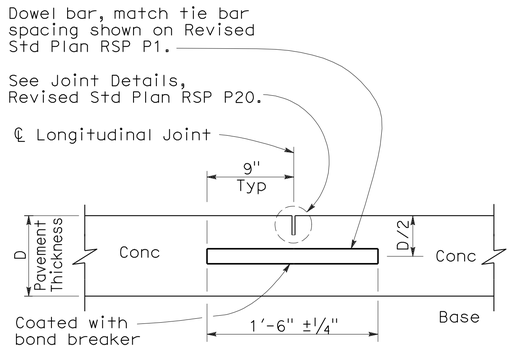


SECTION A-A

TRANSVERSE CONSTRUCTION JOINT DETAIL

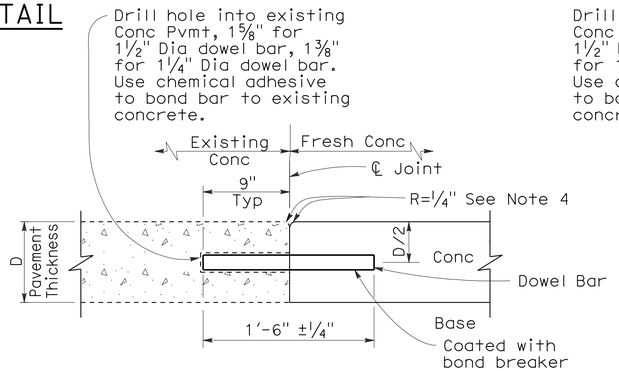


TRANSVERSE CONTRACTION JOINT



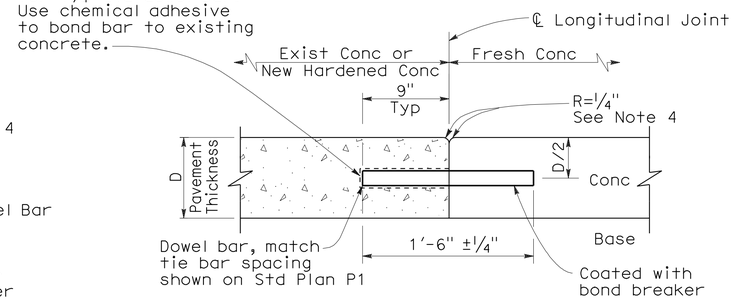
LONGITUDINAL CONTRACTION JOINT WITH DOWEL BARS

(See Revised Std Plan RSP P18)



TRANSVERSE CONSTRUCTION JOINT FOR EXISTING CONCRETE PAVEMENT

(Drill and bond locations)



LONGITUDINAL CONSTRUCTION JOINT WITH DOWEL BARS

(See Revised Std Plan RSP P18)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR DETAILS

NO SCALE

RSP P10 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P10 DATED MAY 1, 2006 - PAGE 124 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P10

2006 REVISED STANDARD PLAN RSP P10

5-8-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	28	38

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

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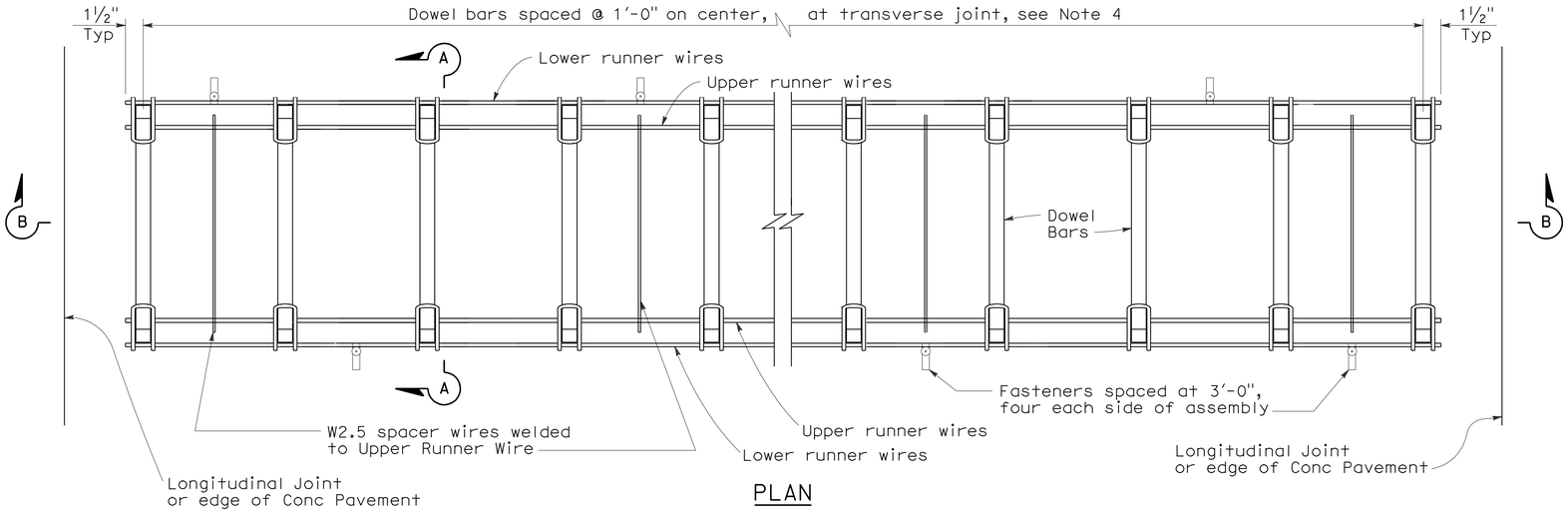
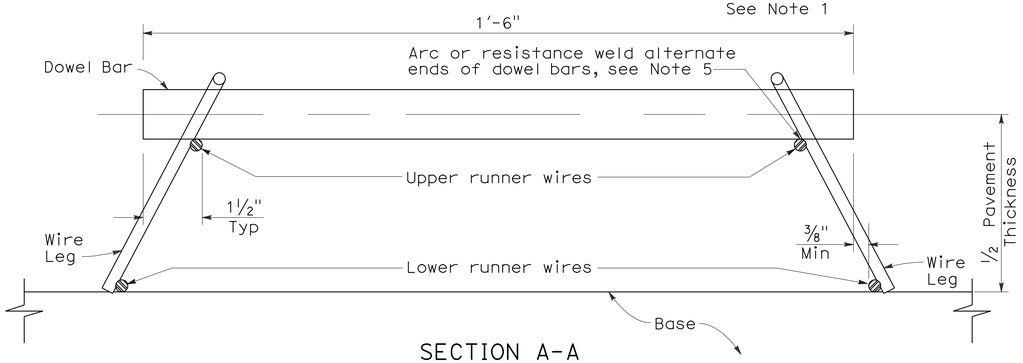
To accompany plans dated 11-8-10



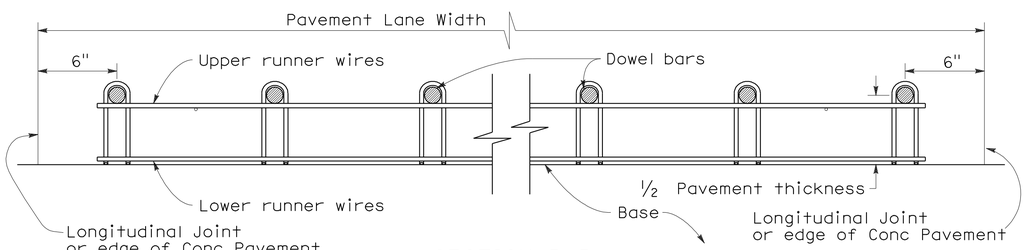
PLAN

DOWEL BAR BASKET (TRANSVERSE JOINT)

See Note 1

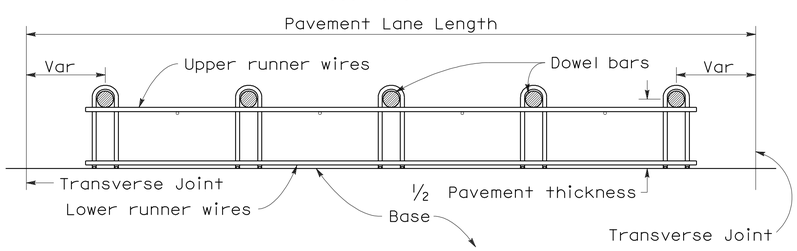


SECTION A-A



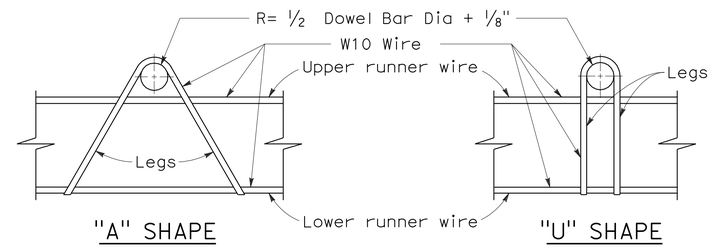
SECTION B-B

See Note 1

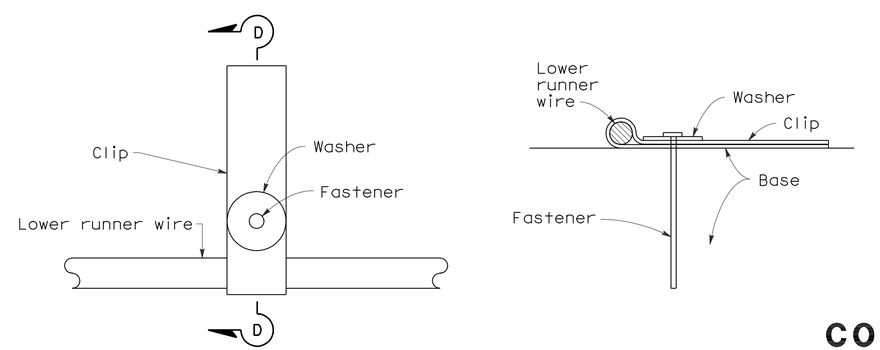


SECTION C-C

See Notes 1 and 4



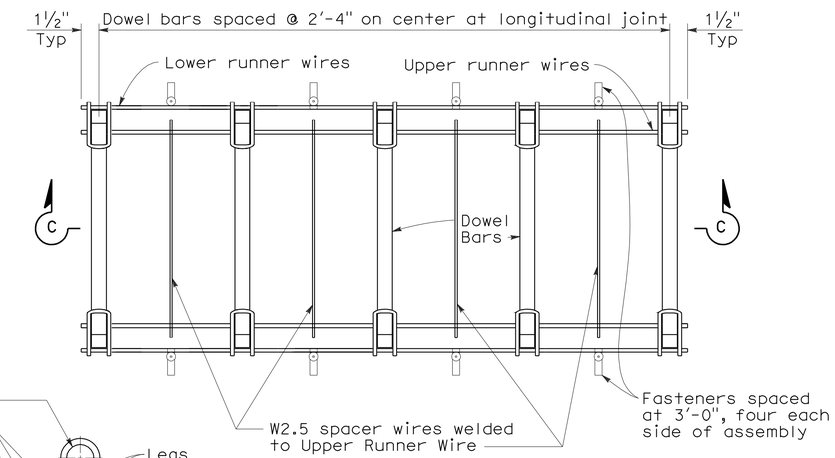
ASSEMBLY FRAME DETAILS



PLAN

SECTION D-D

FASTENER DETAIL



PLAN

DOWEL BAR BASKET (LONGITUDINAL JOINT)

See Note 1

NOTES:

1. "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
2. Wire sizes shown are minimum required.
3. All wire intersections are to be resistance welded.
4. Use tie bar spacing for longitudinal dowel bar locations. See Revised Std Plans RSPs P1, P2, and P3 for tie bar requirements.
5. Weld may be at top or bottom of dowel bar.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR BASKET DETAILS

NO SCALE

RSP P12 DATED MAY 15, 2009 SUPERSEDES RSP P12 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P12 DATED MAY 1, 2006 - PAGE 125 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P12

2006 REVISED STANDARD PLAN RSP P12

5-8-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	29	38

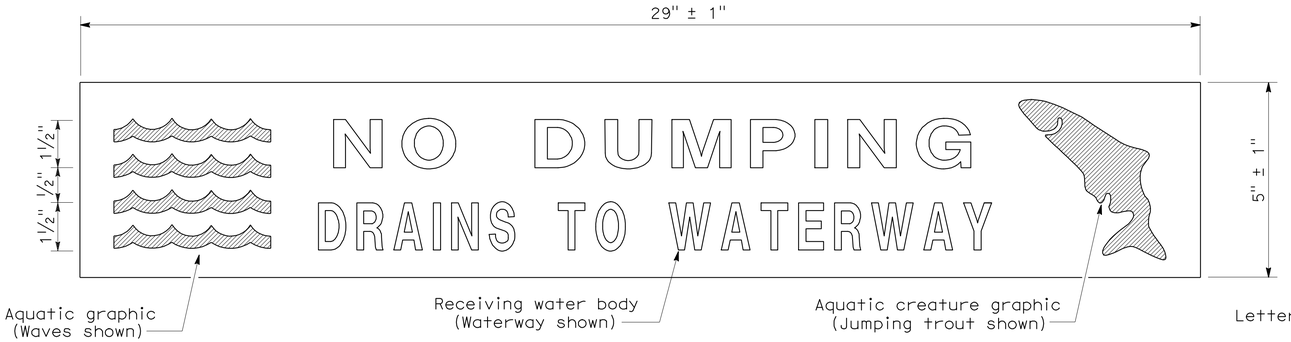
LICENSED LANDSCAPE ARCHITECT

April 3, 2009
PLANS APPROVAL DATE

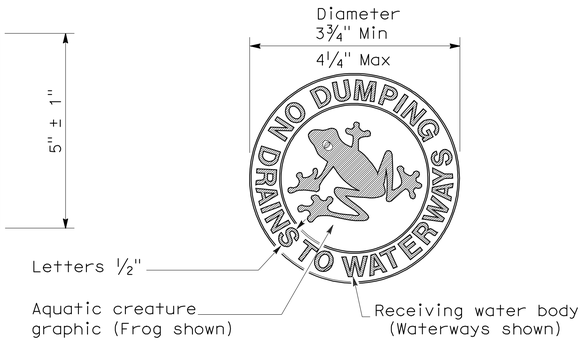
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LANDSCAPE ARCHITECT Robert B. Schott 3025 Signature 11-30-10 Renewal Date 2-25-09 Date STATE OF CALIFORNIA

To accompany plans dated 11-8-10

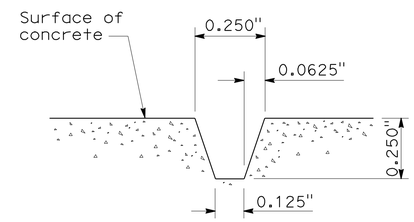


PLAN
DRAINAGE INLET MARKER
(PREFABRICATED THERMOPLASTIC)

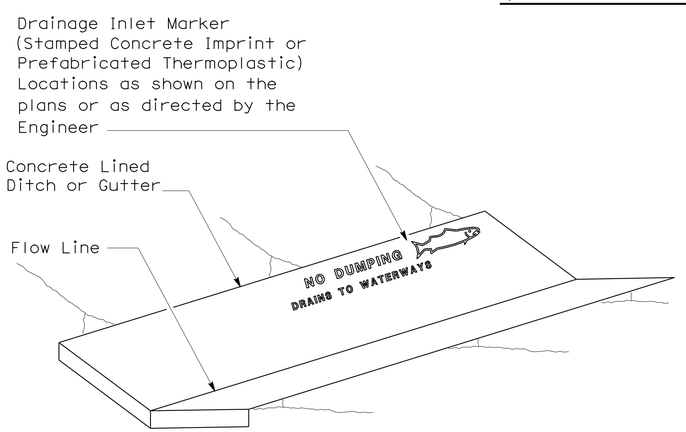


PLAN
DRAINAGE INLET MARKER
(MEDALLION)

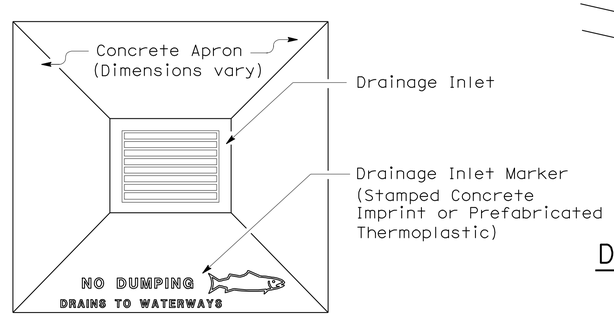
PLAN
DRAINAGE INLET MARKER
(STAMPED CONCRETE IMPRINT)



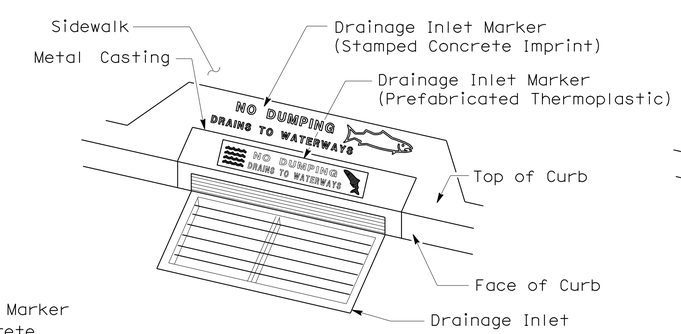
SECTION A-A
STAMPED CONCRETE
IMPRINT DETAIL



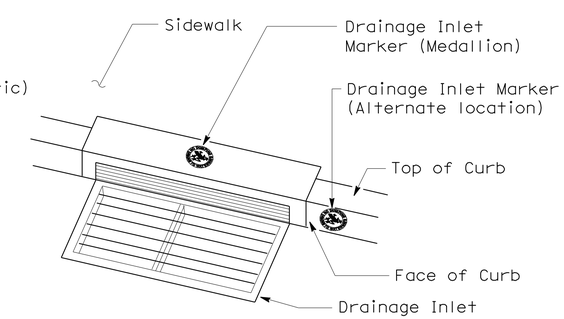
PERSPECTIVE
DRAINAGE INLET MARKER ON
CONCRETE LINED DITCH



PLAN
DRAINAGE INLET MARKER ON
DRAINAGE INLET APRON



PERSPECTIVE
DRAINAGE INLET MARKER ON
DRAINAGE INLET



PERSPECTIVE
DRAINAGE INLET MARKER (MEDALLION)
ON DRAINAGE INLET

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DRAINAGE INLET MARKERS

NO SCALE

NSP D71 DATED APRIL 3, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP D71

2006 NEW STANDARD PLAN NSP D71

7-24-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	30	38

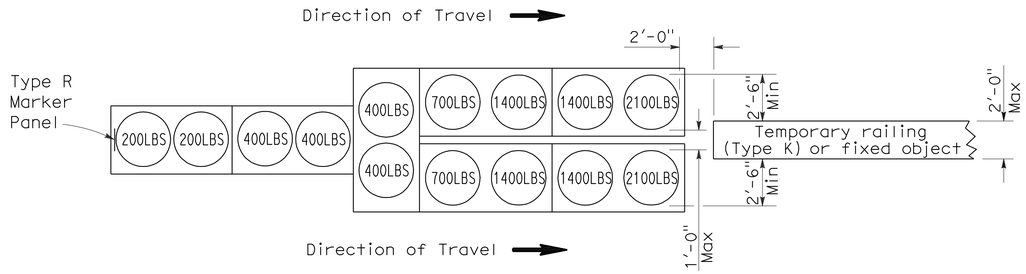
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

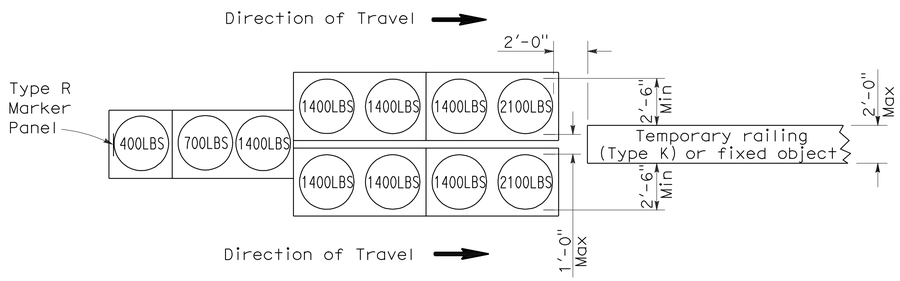
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-8-10



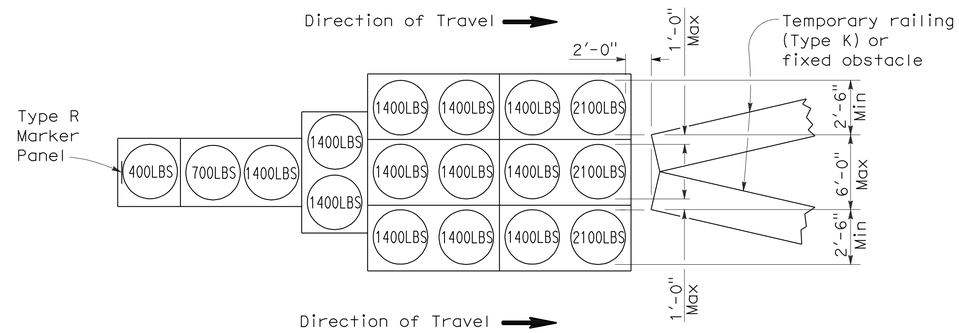
ARRAY 'TU14'

Approach speed 45 mph or more



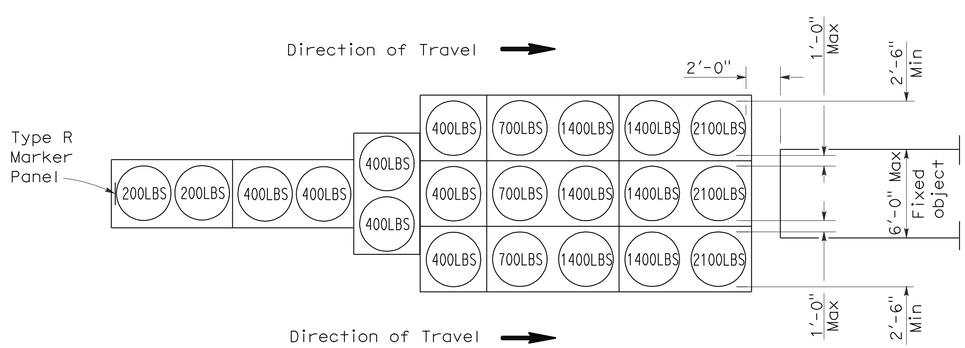
ARRAY 'TU11'

Approach speed less than 45 mph



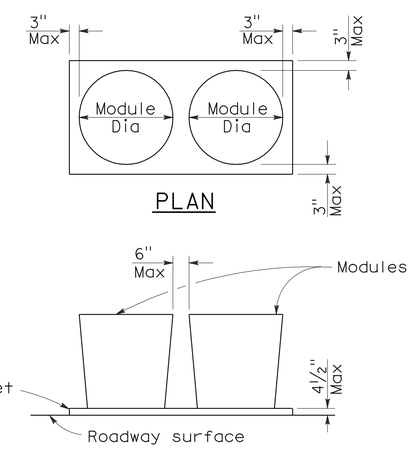
ARRAY 'TU17'

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	31	38

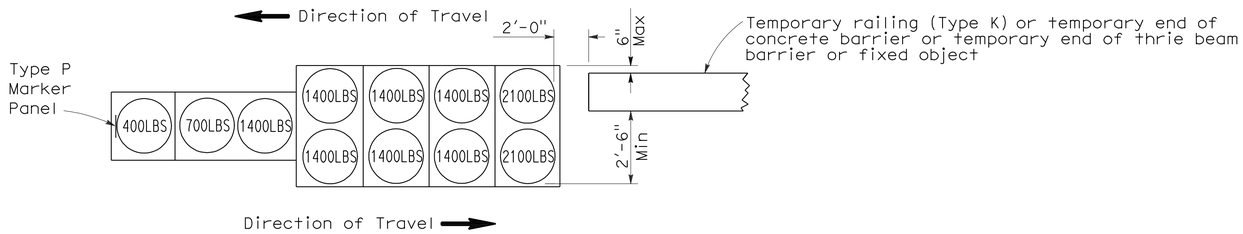
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

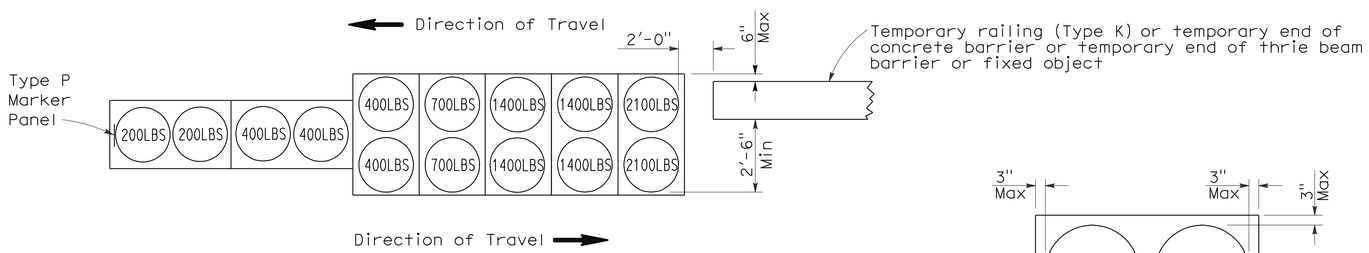
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-8-10



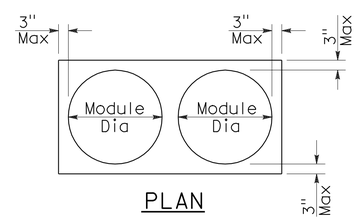
ARRAY 'TB11'

Approach speed less than 45 mph

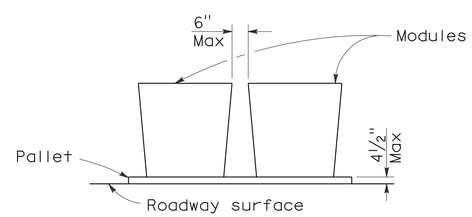


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	32	38

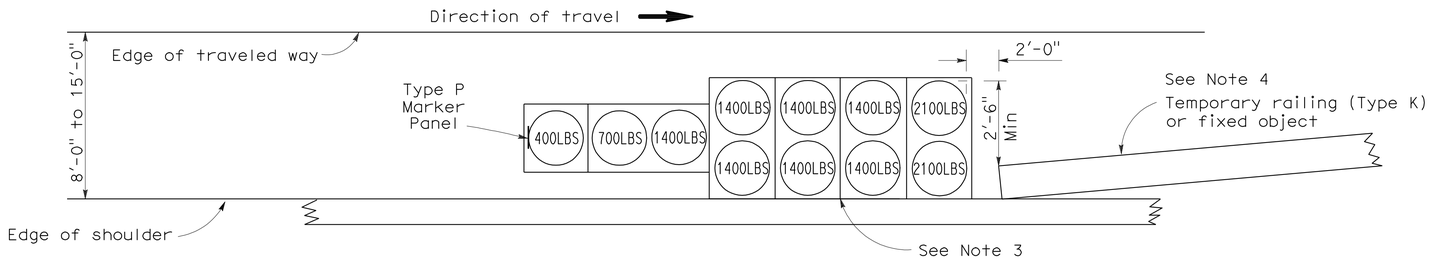
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

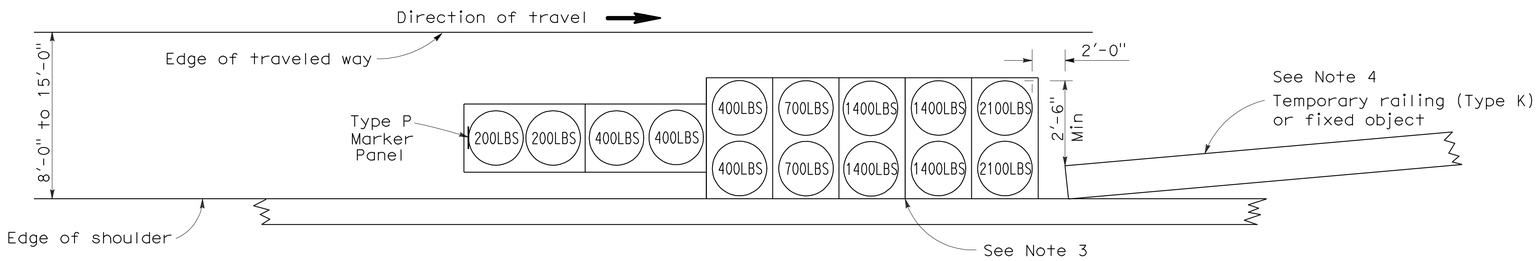
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 11-8-10



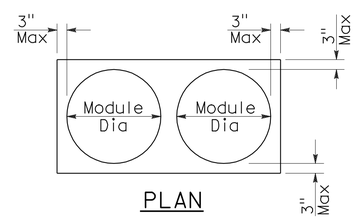
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

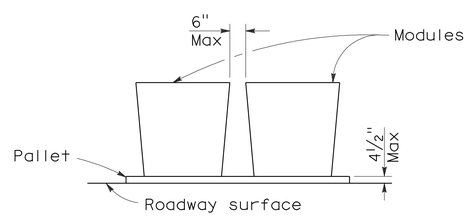


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	33	38

REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Greg W. Edwards — No. C36386 — Exp. 6-30-08 — CIVIL — STATE OF CALIFORNIA

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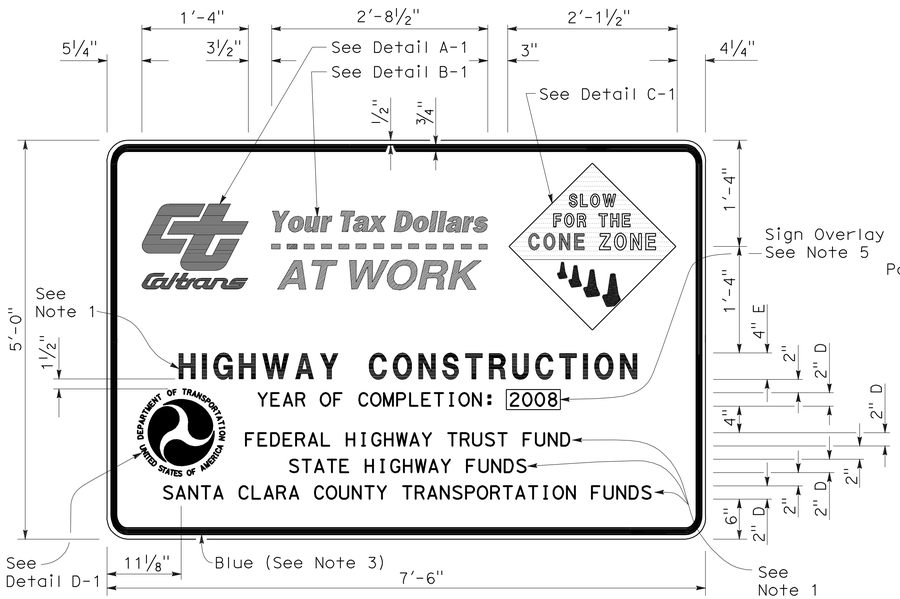
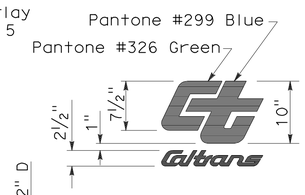
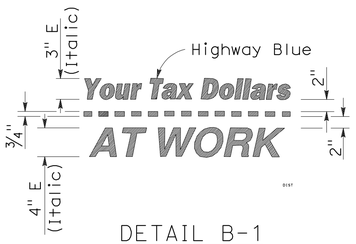
To accompany plans dated 11-8-10



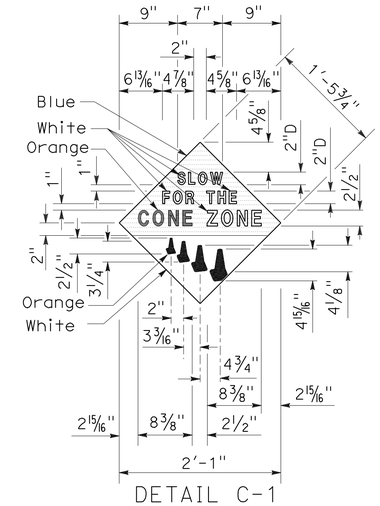
TYPE 1



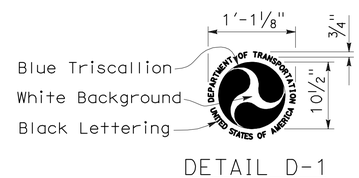
DETAIL A-1



DETAIL B-1
(See Note 3)



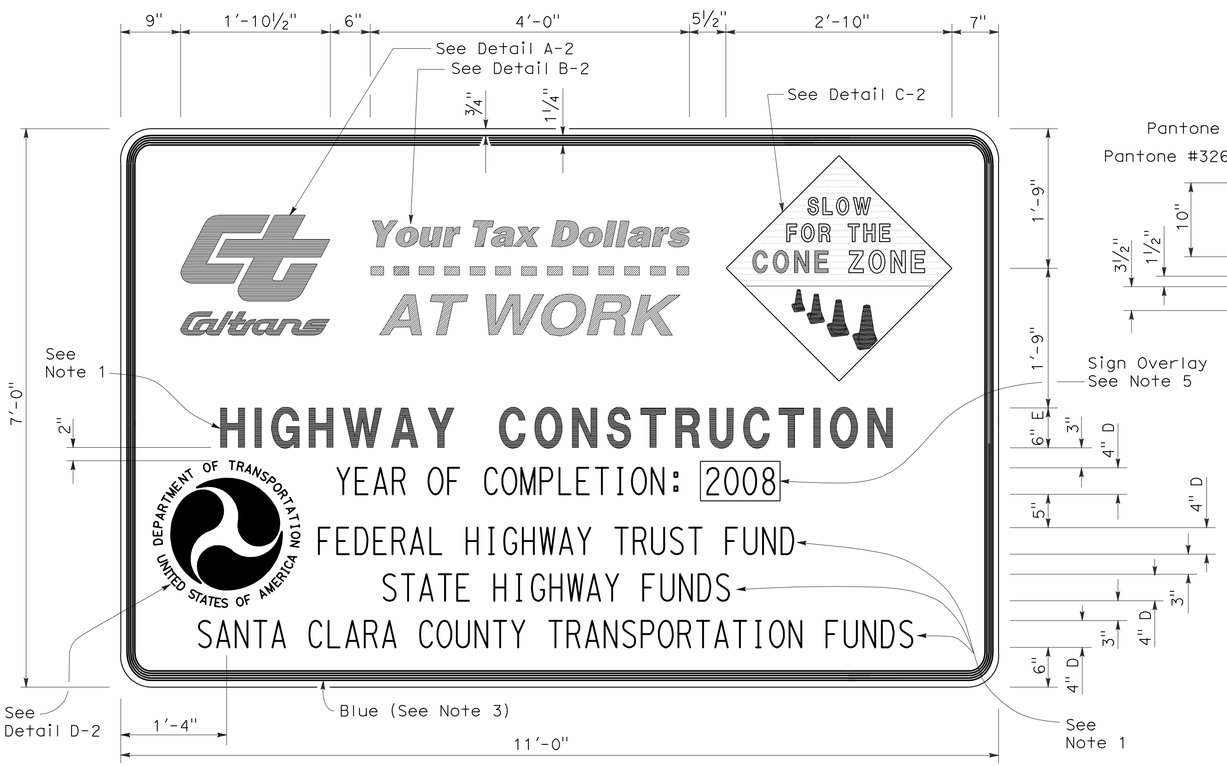
DETAIL C-1
(See Note 4)



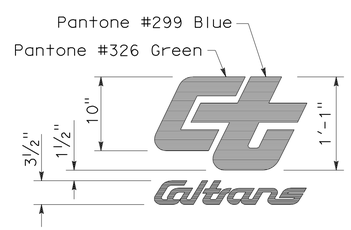
DETAIL D-1
(See Note 6)

NOTES:

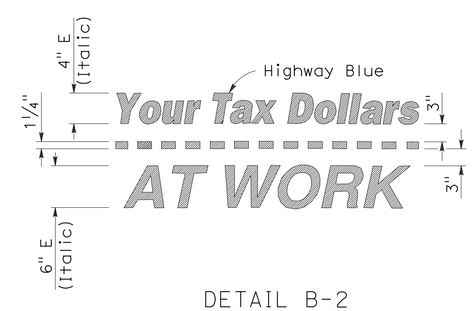
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, " SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



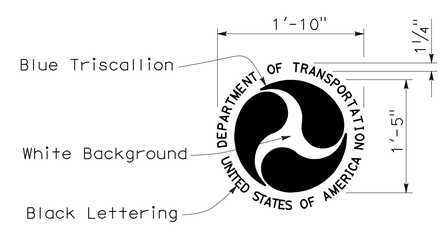
TYPE 2



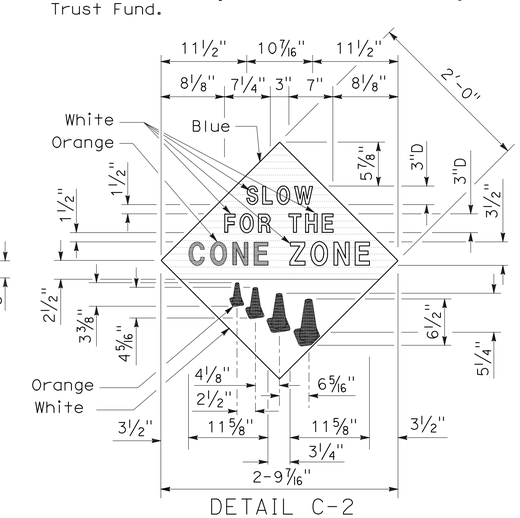
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL D-2
(See Note 6)



DETAIL C-2
(See Note 4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

9-7-06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	34	38

Robert B. Schott
LICENSED LANDSCAPE ARCHITECT

April 3, 2009
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott — 3025 — Signature — 11-30-10 Renewal Date — 2-25-09 Date — STATE OF CALIFORNIA

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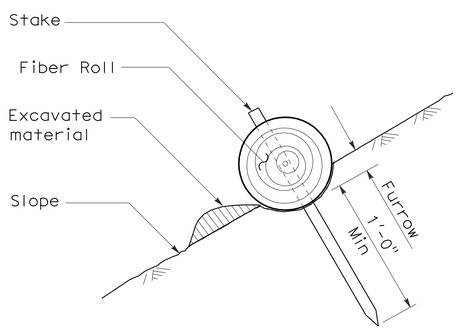
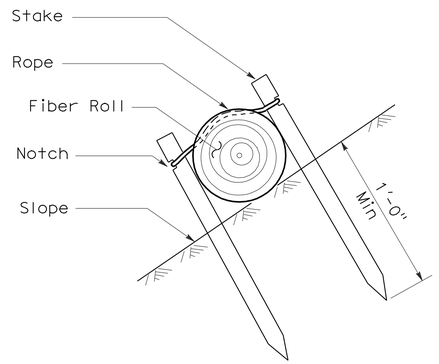
To accompany plans dated 11-8-10

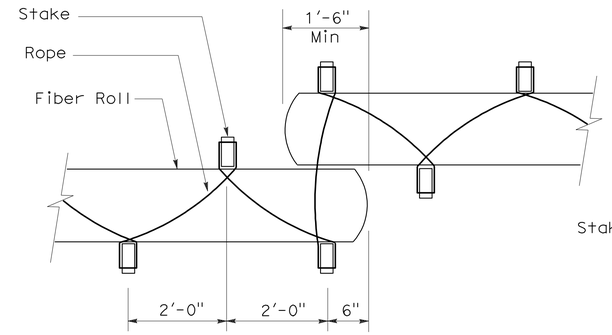


SECTION

TEMPORARY FIBER ROLL (TYPE 1)

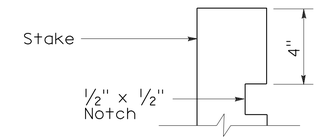


SECTION



PLAN

TEMPORARY FIBER ROLL (TYPE 2)

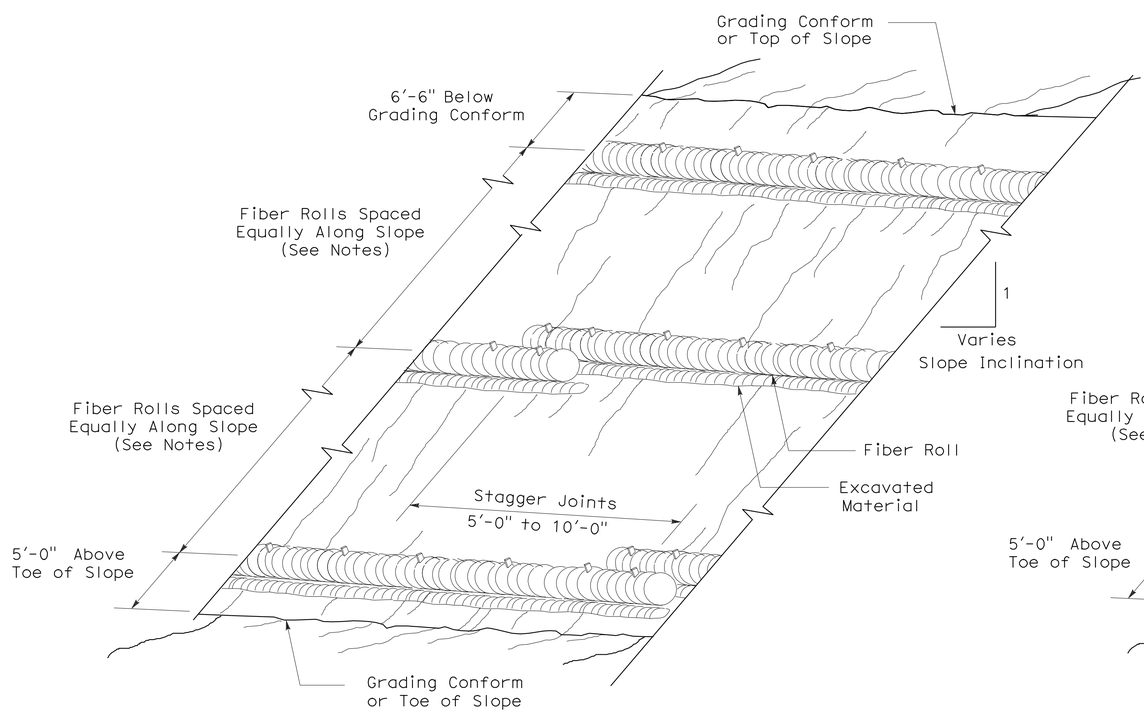


ELEVATION

STAKE NOTCH DETAIL

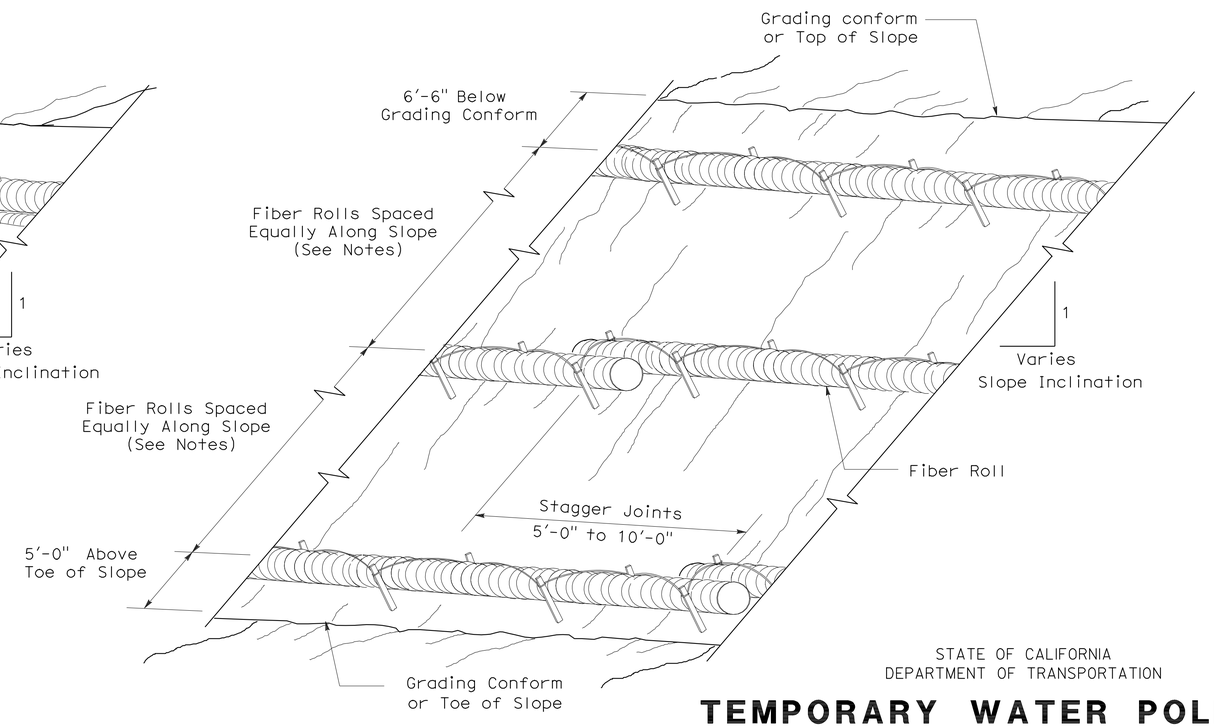
NOTES:

1. Temporary fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE

TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE

TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56
DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

2-23-09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	35	38

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 11-8-10

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	36	38

REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
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ELECTRICAL
STATE OF CALIFORNIA

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To accompany plans dated 11-8-10

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	37	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeffery G. McRae
No. E14512
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ELECTRICAL
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To accompany plans dated 11-8-10

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

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

10 ISL SCI 1.0

- 1.0 — Transformer rating (kVA)
- SCI — Lighting control type
- ISL — 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

- 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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06, 09	Fre,Ker,Tul, Iny,Mno	5,58,99, 395	Var	38	38

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October 5, 2007
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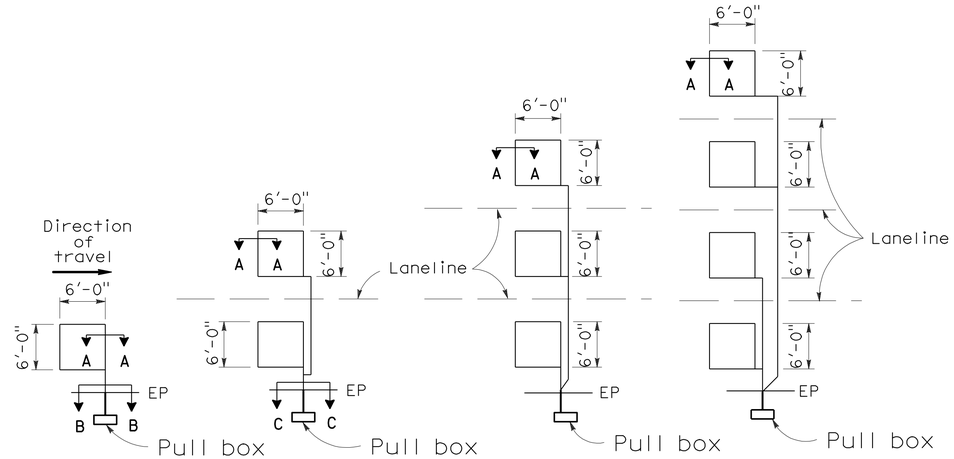
To accompany plans dated 11-8-10

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.

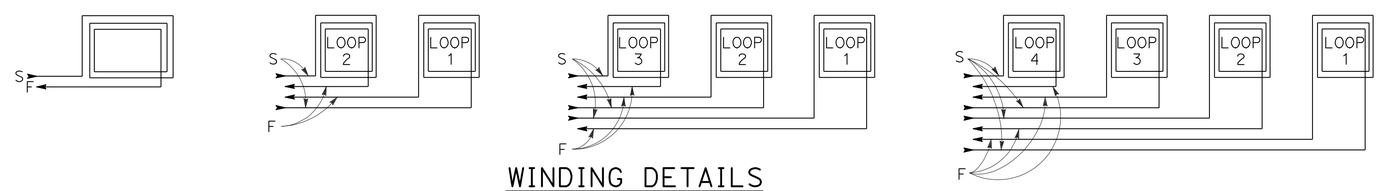


TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

SAWCUT DETAILS

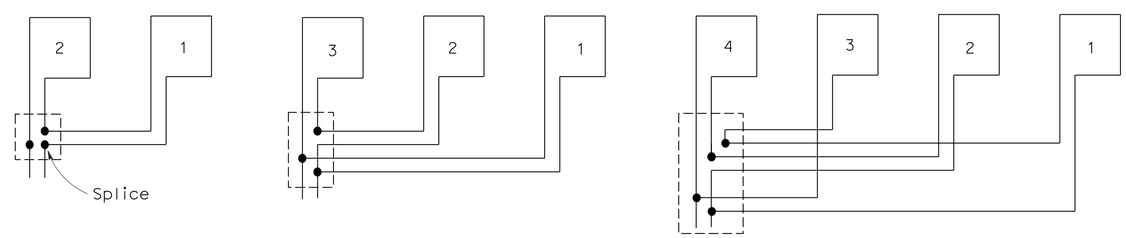
(Type A loop detector configurations illustrated)

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)



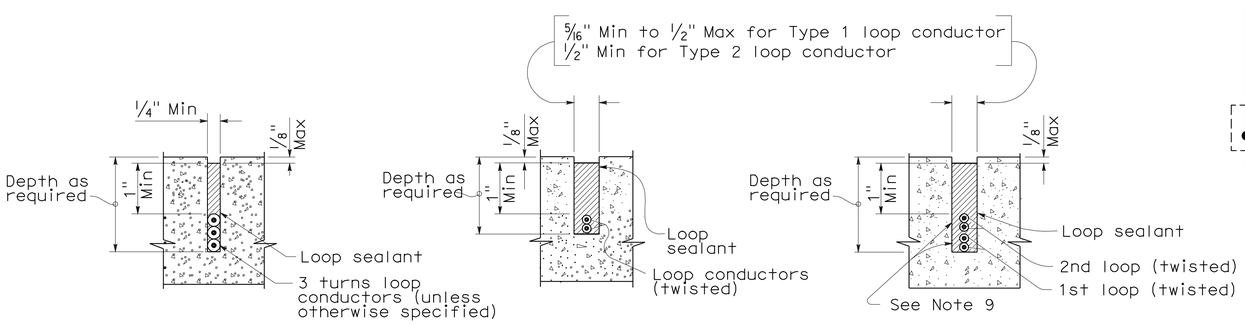
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



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

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

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.

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2006 REVISED STANDARD PLAN RSP ES-5A

8-17-07