Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.9/4.9	2	1082

REGISTERED CIVIL ENGINEER 12-14-09 DATE

6-21-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NGIM NANCY PE No. 58161 Exp. 6-30-10 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.

Caltrans Metric

PROPOSED STRUCTURAL SECTIONS

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. SECTIONS FOR DETOURS ARE SHOWN ON SC-SHEETS.
4. COLD PLANE AC PAVEMENT & OVERLAY HOT MIX ASPHALT FROM NB/SB STA 29+94 TO 30+15.
5. SEE LAYOUT PLANS FOR EXACT LIMIT OF RETAINING CURB.
6. TCGE: TEMPORARY CONSTRUCTION AND GRADING EASEMENT.

1 — 315 mm JOINTED PLAIN CONCRETE PAVEMENT (JPCP)
150 mm LEAN CONCRETE BASE
210 mm CLASS 3 AGGREGATE BASE

2 — 240 mm PORTLAND CEMENT CONCRETE
105 mm LEAN CONCRETE BASE
150 mm CLASS 3 AGGREGATE BASE

3 — 270 mm JOINTED PLAIN CONCRETE PAVEMENT (JPCP)
150 mm LEAN CONCRETE BASE
210 mm CLASS 3 AGGREGATE BASE

4 — 50 mm HOT MIX ASPHALT (Misc AREA)

5 — 150 mm PORTLAND CEMENT CONCRETE (RAPID STRENGTH CONCRETE)
150 mm CLASS 2 AGGREGATE BASE

6 — 150 mm PORTLAND CEMENT CONCRETE
150 mm CLASS 2 AGGREGATE BASE

7 — 180 mm HOT MIX ASPHALT (TYPE B)
300 mm CLASS 2 AGGREGATE BASE
360 mm CLASS 4 AGGREGATE SUBBASE

8 — 195 mm HOT MIX ASPHALT (TYPE B)
330 mm CLASS 2 AGGREGATE BASE
390 mm CLASS 4 AGGREGATE SUBBASE

9 — 180 mm HOT MIX ASPHALT (TYPE B)
180 mm CLASS 3 AGGREGATE BASE

10 — 50 mm-850 mm OVERLAY HOT MIX ASPHALT (TYPE B)

11 — 100 mm PORTLAND CEMENT CONCRETE
150 mm CLASS 3 AGGREGATE BASE

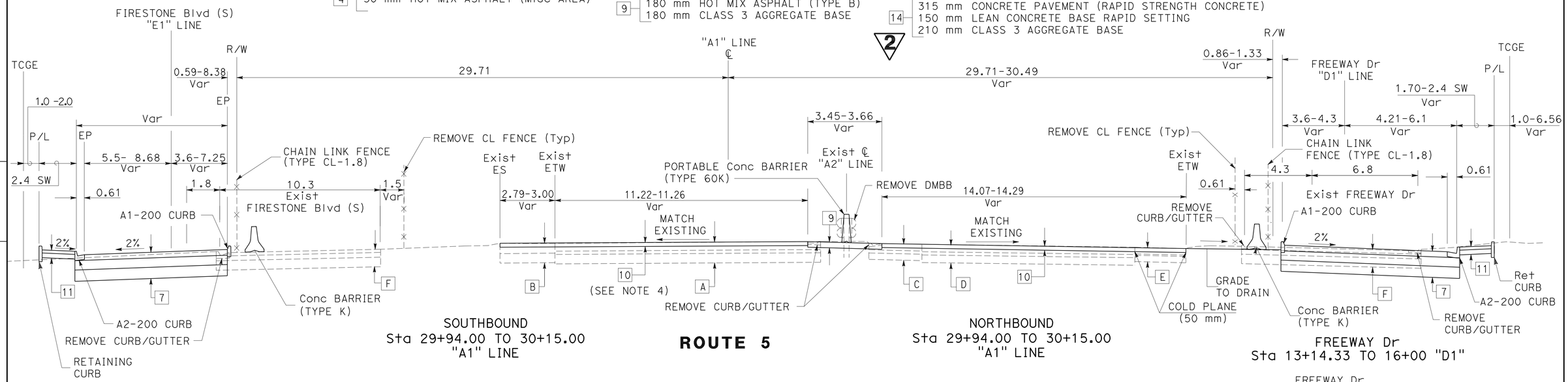
12 — 200 mm PORTLAND CEMENT CONCRETE
330 mm CLASS 2 AGGREGATE BASE
385 mm CLASS 4 AGGREGATE SUBBASE

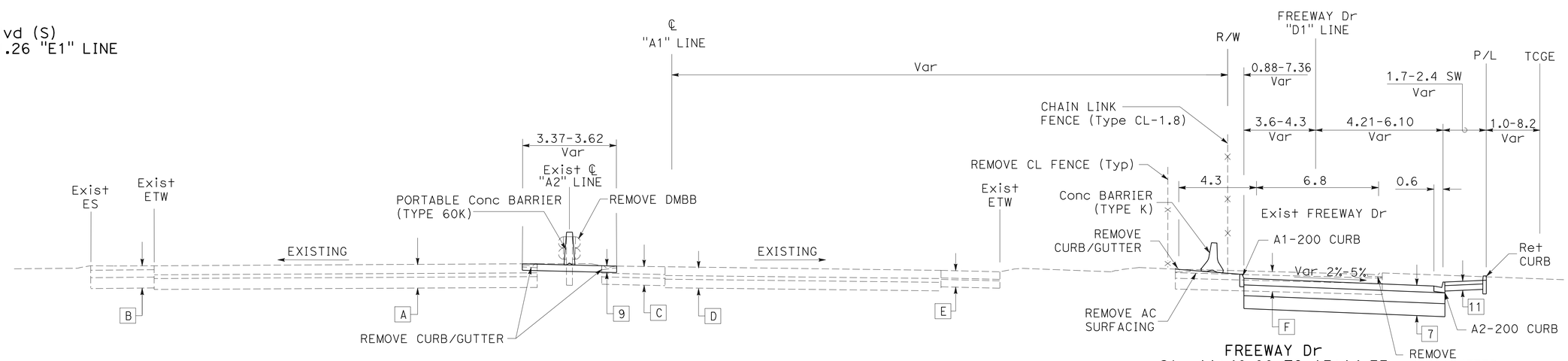
13 — 180 mm HOT MIX ASPHALT (TYPE B)
285 mm CLASS 2 AGGREGATE BASE
330 mm CLASS 4 AGGREGATE SUBBASE

14 — 315 mm CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)
150 mm LEAN CONCRETE BASE RAPID SETTING
210 mm CLASS 3 AGGREGATE BASE

DESIGN DESIGNATION:

2005 ADT = 171,289 D=56%
2030 ADT = 280,914 T=10%
DHV = 4838 V=115 km/h





ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

2 REVISED PER ADDENDUM No. 2 DATED MAY 6, 2011

TYPICAL CROSS SECTIONS

NO SCALE

X-1

KEVIN Q NGUYEN — NGIM NANCY PE — KN 9/09 — REVISED BY — DATE REVISED
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — NGIM NANCY PE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans OFFICE OF DESIGN A

LAST REVISION 00-00-00 — DATE PLOTTED => 04-MAY-2011 — TIME PLOTTED => 09:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.9/4.9	24	1082

REGISTERED CIVIL ENGINEER 12-23-09 DATE

6-21-10
PLANS APPROVAL DATE

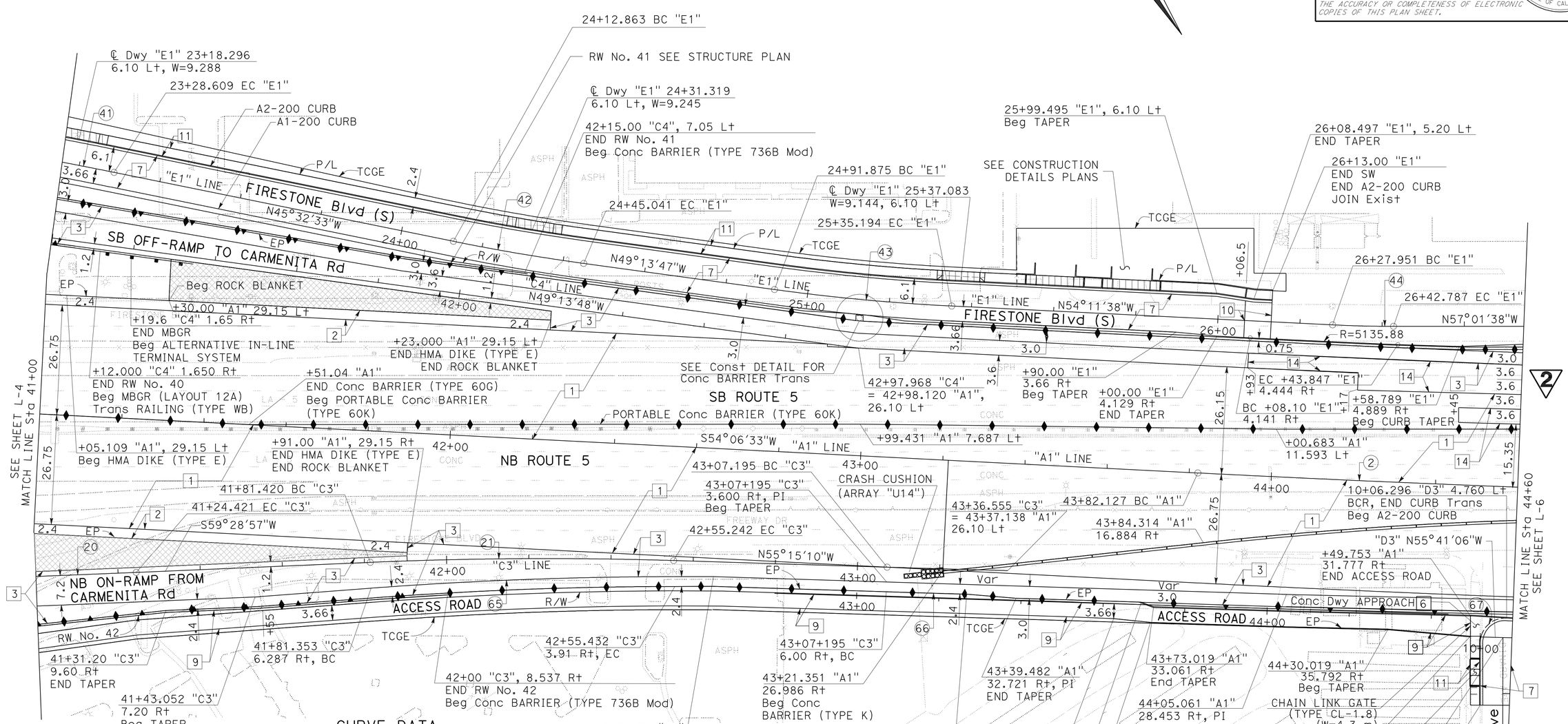
REGISTERED PROFESSIONAL ENGINEER NGIM NANCY PE No. 58161 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

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.

Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR FIRESTONE Blvd (N) "D3" LINE CONSTRUCTION, SEE CONSTRUCTION DETAILS.



CURVE DATA

No.	R	Δ	T	L
2	6000.00	3°13'45"	169.116	338.098
20	6000.00	1°11'42"	62.575	125.144
21	1000.00	4°13'47"	36.928	73.823
22	6523.70	0°10'18"	9.78	19.56
41	1200.00	18°03'52"	190.754	378.342
42	500.00	3°41'14"	16.095	32.173
43	500.00	4°57'50"	21.673	43.318
44	300.00	2°50'0"	7.419	14.834
65	996.40	4°14'25"	36.8871	73.741
66	6529.70	0°10'18"	9.780	19.559
67	6.00	93°53'40"	6.422	9.833

2 REVISED PER ADDENDUM No. 2 DATED MAY 6, 2011

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAYOUT
SCALE 1:500

L-5

REVISED BY	DATE REVISED
KN	9/09

CALCULATED-DESIGNED BY: KEVIN Q. NGUYEN
CHECKED BY: NGIM NANCY PE
FUNCTIONAL SUPERVISOR: NGIM NANCY PE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF DESIGN A

72159cea005.add

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2011 | TIME PLOTTED => 10:34

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => trmnguye | DGN FILE => 72159cea005.add | CU 07225 | EA 2159C1

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.9/4.9	25	1082

REGISTERED CIVIL ENGINEER 12-23-09 DATE

6-21-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NGIM NANCY PE No. 58161 Exp. 6-30-10 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.

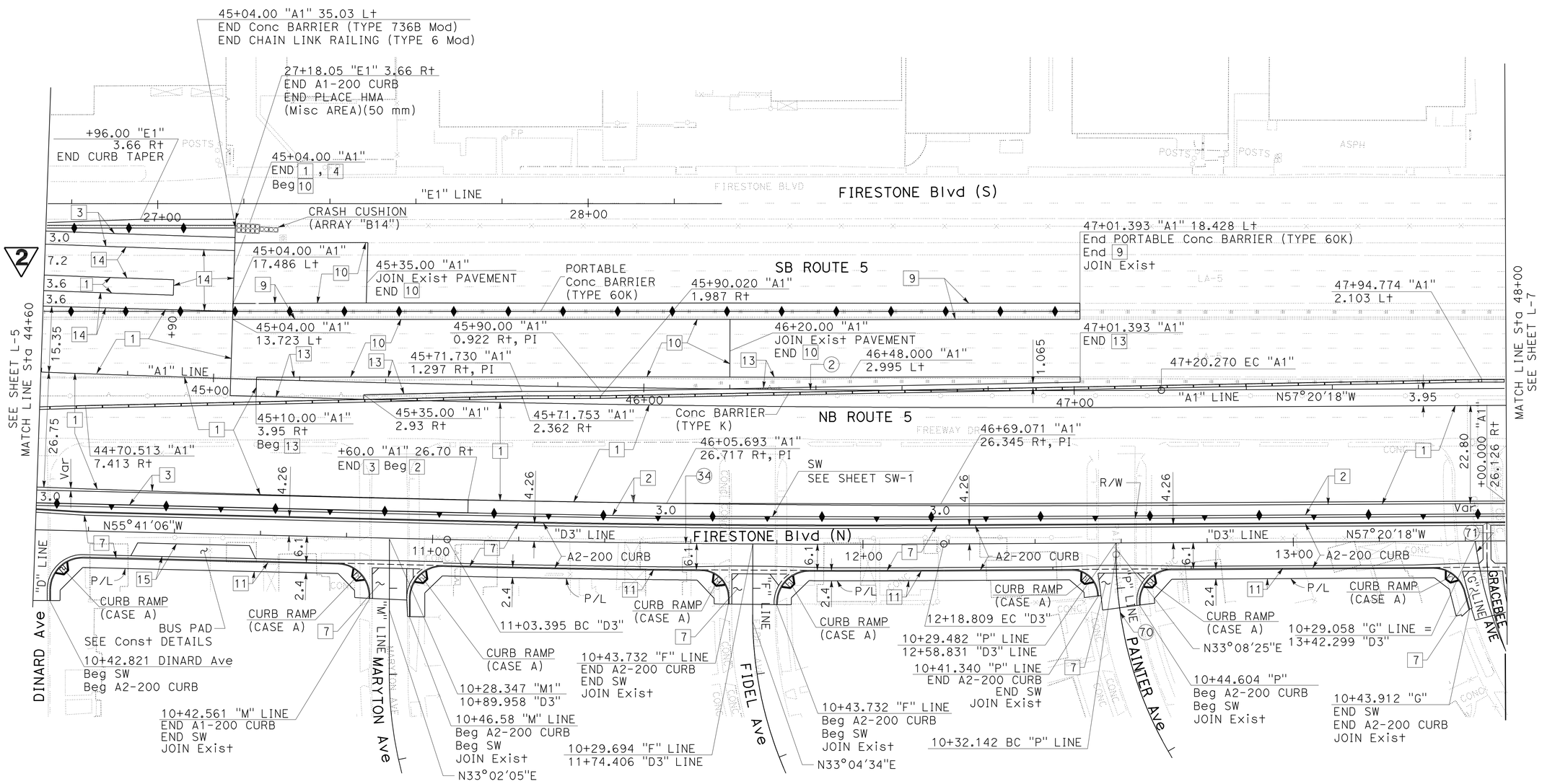
Caltrans Metric

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR FIRESTONE Blvd (N) "D3" LINE CONSTRUCTION, SEE CONSTRUCTION DETAILS.

CURVE DATA

No.	R	Δ	T	L
2	6000.00	3°13'45"	169.116	338.143
34	4000.00	1°39'11"	57.711	115.414
70	91.445	33°08'44"	27.214	52.901
71	91.440	25°52'01"	20.999	41.282



ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

LAYOUT
SCALE 1:500

L-6

2 REVISED PER ADDENDUM No. 2 DATED MAY 6, 2011

REVISED BY	DATE REVISED
KN	9/09

CALCULATED-DESIGNED BY: KEVIN Q. NGUYEN
CHECKED BY: NGIM NANCY PE
FUNCTIONAL SUPERVISOR: NGIM NANCY PE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF DESIGN A

72159cea006.add

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2011 | TIME PLOTTED => 07:44

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.9/4.9	636	1082

Caltrans Metric

REGISTERED CIVIL ENGINEER 12-23-09 DATE

6-21-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER NGIM NANCY PE No. 58161 Exp. 6-30-10 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.

(N) NOT A SEPARATE PAY ITEM

ROADWAY QUANTITIES

SHEET No.	ALIGNMENT	LOCATION	ROADWAY EXCAVATION	EMBANKMENT(N)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	IMPORT BORROW	CONTAMINATED SOIL DISPOSAL	ROADWAY EXCAVATION (CONTAMINATED SOIL)	ROADWAY EXCAVATION (TYPE Y-2) (AERIALLY DEPOSITED LEAD)	METAL BEAM GUARD RAILING	ALTERNATIVE FLARED TERMINAL SYSTEM	ALTERNATIVE IN-LINE TERMINAL SYSTEM	CONCRETE BARRIER (TYPE 60G)	CONCRETE BARRIER (TYPE 60GE)	CONCRETE BARRIER (TYPE 736B Mod)	CONCRETE BARRIER (TYPE K)	PORTABLE CONCRETE BARRIER (TYPE 60K)	MINOR CONCRETE (SIDEWALK, CURB, GUTTER, DRIVEWAY, CURB RAMP, CROSS GUTTER)	3.7 m CHAIN LINK GATE (TYPE CL-1.8)	CHAIN LINK RAILING (TYPE 6 Mod)	CHAIN LINK FENCE (TYPE CL-1.8)	CLASS 2 AGGREGATE BASE	CLASS 3 AGGREGATE BASE	CLASS 4 AGGREGATE SUBBASE	MINOR CONCRETE (RAPID STRENGTH CONCRETE)	CONCRETE PAVEMENT	ROCK BLANKET	LEAN CONCRETE BASE	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE B)	PLACE HOT MIX ASPHALT (MISC AREA)	SEAL PAVEMENT JOINT	CRASH CUSHION (ADIEM)	CRASH CUSHION MODULE, SAND FILLED	END ANCHOR ASSEMBLY (TYPE SFT)	END CAP (TYPE B)	END CAP (TYPE TA)	TRANSITION RAILING (TYPE WB)	CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	LEAN CONCRETE BASE (RAPID SETTING)
			m^3	m^3	m	m	m^3	m^3	m^3	m^3	m	EA	EA	m	m	m	m	m	m^3	EA	m	m	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	TONN	m^2	m	EA	EA	EA	EA	EA	EA	m^3	m^3
C-66	"A1"	Sta 27+71.898 TO 30+00.000	206							1195							316	227				369		148					169	376						1				
L-1	"D1"	Sta 11+20.000 TO 15+15.000	3666	59				271	555										196				1289	155	1547	16			305	2003	267									
	"E1"	Sta 10+40.000 TO 12+06.262	997	189															86	1		33	538	64	646	6			128	1357	61									
C-67	"A1"	Sta 30+00.000 TO 33+60.000	8529	44					1614	2155				28		690	30	332			690			7912			8548		4119	424	29		8560								
L-2	"D1"	Sta 15+15.000 TO 18+75.000	2532	2															115				320	88	383	11				1864	743	219									
	"E1"	Sta 12+06.262 TO 15+66.564	1377	55				321	2562										153				990	130	1188	25					1464	306									
C-68	"A1"	Sta 33+60.000 TO 37+20.000	11536	166						2987				360										4716			6967		3367				8630								
L-3	"C1"	Sta 36+08.000 TO 37+20.000	367	1094	126											293					293			306				469	219		10									
	"C2"	Sta 36+67.000 TO 37+20.000	144	185	74																			137				310	98		170									
	"D1"	Sta 18+75.000 TO 21+94.000	726													329			58		329		306	103	368	3				2340	793	502									
	"E1"	Sta 15+64.040 TO 19+22.575	4828	14				25	185										151				1026	120	1232	23					1515	306									
C-69	"A1"	Sta 37+20.000 TO 41+00.000	11466	274	73					2170	65	4		286	93	118				4		103		4625			6965		3300				9722			3		3	3		
L-4	"C1"	Sta 37+21.000 TO 38+93.573		994																				80			103		57												
	"C2"	Sta 37+20.000 TO 39+44.562		3889		21		174			23		1											346			444		247												
	"C3"	Sta 39+45.053 TO 44+69.031		689																		99		57			73		41												
	"C4"	Sta 38+90.651 TO 39+99.128		1413																				104			134		74												
	"E1"	Sta 19+22.575 TO 23+15.000	3961	10				177	774										64	2		318	371	49	445						595	508									
		Access Road																						166							399										
C-70	"A1"	Sta 41+00.000 TO 44+60.000	2879	6415	209		3960			534				51			140	309						5004			7320		3573	57			8559		14				1	142	68
L-5	"C3"	Sta 44+69.031 TO "A1" 44+60.000	7	1386												170					170			206			265	464	147		10										
	"C4"	Sta 41+00.405 TO "E1" 26+45.263		2535							8		1											227			291	575	162												
	"D3"	Sta 10+00.000 TO 10+05.000	42	5															17				41	9	49						59										
	"E1"	Sta 23+15.000 TO "E1" 26+45.263	2040	46					116							245			128		245		798	105	957	23					1201	429									
		Access Road																						306							734										
C-71	"A1"	Sta 44+60.000 TO 48+00.000	1775	3244			2000			51						44	340	241			44		160	2281	186		3201		1533	1990	11349	10	1996		14		1			164	78
L-6	"D3"	Sta 10+05.000 TO 13+49.237	4558	20															207				1008	116	1210						1453										
C-72	"A1"	Sta 44+60.000 TO 49+22.700															20			1		24													11		1				
L-7	"D3"	Sta 13+49.237 TO 14+93.000	1689	3															58				292	21	350					105	421										
		SUB-TOTAL	63325	22731	482	21	5960	968	5806	9092	96	4	2	725	93	1889	846	1109	1233	8	1771	946	7139	27581	8561	107	34311	1818	16937	7382	24681	2608	37467		39	3	3	3	4	306	146

2 REVISED PER ADDENDUM No. 2 DATED MAY 6, 2011

SUMMARY OF QUANTITIES
Q-3

KEVIN Q NGUYEN — REVISED BY 6/09
NGIM NANCY PE — DATE REVISED 5/09
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR NGIM NANCY PE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF DESIGN A

72159cpa003.add

LAST REVISION 00-00-00
DATE PLOTTED => 04-MAY-2011
TIME PLOTTED => 07:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.9/4.9	637	1082

Caltrans Metric

REGISTERED CIVIL ENGINEER — DATE 12-23-09

PLANS APPROVAL DATE 6-21-10

REGISTERED PROFESSIONAL ENGINEER NGIM NANCY PE No. 58161 Exp. 6-30-10 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.

(N) NOT A SEPARATE PAY ITEM

ROADWAY QUANTITIES

SHEET No.	ALIGNMENT	LOCATION	ROADWAY EXCAVATION	EMBANKMENT (N)	PLACE HMA DIKE (TYPE E)	PLACE HMA DIKE (TYPE F)	IMPORT BORROW	CONTAMINATED SOIL DISPOSAL	ROADWAY EXCAVATION (CONTAMINATED SOIL)	ROADWAY EXCAVATION (TYPE Y-2) (AERIALLY DEPOSITED LEAD)	METAL BEAM GUARD RAILING	ALTERNATIVE FLARES TERMINAL SYSTEM	ALTERNATIVE IN-LINE TERMINAL SYSTEM	CONCRETE BARRIER (TYPE 60G)	CONCRETE BARRIER (TYPE 60GE)	CONCRETE BARRIER (TYPE 736B Mod)	CONCRETE BARRIER (TYPE K)	PORTABLE CONCRETE BARRIER (TYPE 60K)	MINOR CONCRETE (SIDEWALK, CURB, GUTTER, DRIVEWAY, CURB RAMP, CROSS GUTTER)	3.7 m CHAIN LINK GATE (TYPE CL-1.8)	CHAIN LINK RAILING (TYPE 6 Mod)	CHAIN LINK FENCE (TYPE CL-1.8)	CLASS 2 AGGREGATE BASE	CLASS 3 AGGREGATE BASE	CLASS 4 AGGREGATE SUBBASE	MINOR CONCRETE (RAPID STRENGTH CONCRETE)	CONCRETE PAVEMENT	ROCK BLANKET	LEAN CONCRETE BASE	COLD PLANE ASPHALT CONCRETE PAVEMENT	HOT MIX ASPHALT (TYPE B)	PLACE HOT MIX ASPHALT (MISC AREA)	SEAL PAVEMENT JOINT	CRASH CUSHION (ADIEM)	CRASH CUSHION MODULE, SAND FILLED	END ANCHOR ASSEMBLY (TYPE SFT)	END CAP (TYPE B)	END CAP (TYPE TA)	TRANSITION RAILING (TYPE WB)	CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	LEAN CONCRETE BASE (RAPID SETTING)
			m^3	m^3	m	m	m^3	m^3	m^3	m^3	m	EA	EA	m	m	m	m	m	m^3	EA	m	m	m^3	m^3	m^3	m^3	m^3	m^2	m^3	m^2	TONN	m^2	m	EA	EA	EA	EA	EA	EA	m^3	m^3
C-73	"B1"	Sta 11+00.000 TO 12+80.000	1485	7959															100				1166	102	1378	9				957	2352			1							
L-8	"B2"	Sta 11+00.000 TO 12+85.000	1136	88															20				41	25	49	3				1060	186										
C-74	"B1"	Sta 12+80.000 TO 16+00.000	11167	3786															10				100	14							142										
	"B2"	Sta 12+85.000 TO 13+80.000	511	11															100				436	68	524	4				270	661										
	"E1"	Sta 19+40 TO 21+80																	98				659	72	791						950										
L-9	"E2"	Sta 0+00.000 TO 2+00.000	1681	5															65				483	61	580						697										
	"E3"	Sta 0+00.000 TO 2+18.310	1913	12					422										50				764	33	917	9					1102										
C-75	"B1"	Sta 16+00.000 TO 19+45.000	4076	13793			3832	237											90				1820	156	2151	24				1920	3980										
L-10	"D2"	Sta 16+00.000 TO 19+45.000	135	1680															33				396	52	475	5					570										
C-76	"D1"	Sta 21+94.000 TO 24+26.854	1249	33				103	2466										99				822	157	987	13					1377										
L-11	"D2"	Sta 14+00.000 TO 16+00.000	414																4				127	6	153					2380	470										
	"R1"																		42				410	31	492	5					591										
		SUB-TOTAL	23767	27367			3832	340	2888										711				7224	777	8497	72				6587	13078										
		TOTAL	87462	50098	482	21	9792	1308	8694	9092	96	4	2	725	93	1889	846	1109	2058.92	8	1771	959	14455	28681	17068	179	34311	11483	16937	14997	38960	2608	37467	1	39	3	3	3	4	306	146

AUSTIN VAULT SAND FILTER QUANTITIES

TYPE	STRUCTURAL CONCRETE	STRUCTURE EXCAVATION	STRUCTURE BACKFILL	BAR REINFORCE-MENT STEEL	150 mm PERFORATED PLASTIC PIPE UNDERDRAIN	150 mm NON-PERFORATED PLASTIC PIPE UNDERDRAIN	PERMEABLE MATERIAL	SAND BEDDING	GABION	FILTER FABRIC	MISCELLANEOUS METAL AND STEEL	CABLE RAILING
	m^3	m^3	m^3	Kg	m	m	m^3	m^3	m^3	m^2	Kg	m
S-99-1.37	91.7	259.8	74.3	12,484	37.8	8.7	26.8	33.6	8.4	91.1	52.2	43.6

SUMMARY OF QUANTITIES

2 REVISED PER ADDENDUM No. 2 DATED MAY 6, 2011

Q-4

KEVIN Q NGUYEN — REVISED BY 6/09
NGIM NANCY PE — DATE REVISED 5/09
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR NGIM NANCY PE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans OFFICE OF DESIGN A

72159cpa004.add

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2011 | TIME PLOTTED => 07:45

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	2.9/4.9	827A	1082

REGISTERED CIVIL ENGINEER

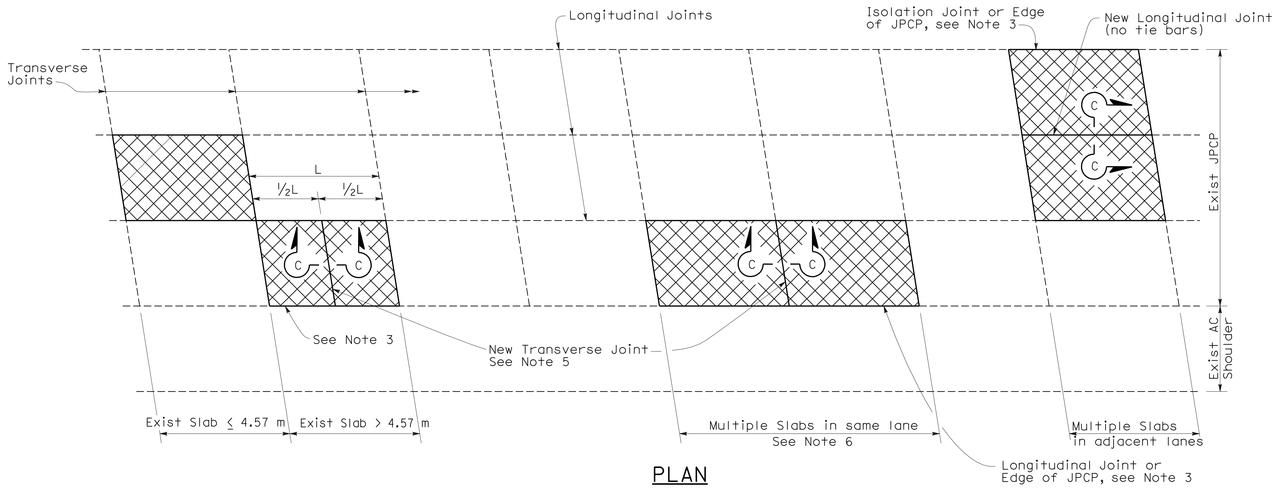
September 1, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Fornbach NO. 49042 EXP. 09-30-06 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 get to the Caltrans web site, go to: http://www.dot.ca.gov

To accompany plans dated 6-21-10



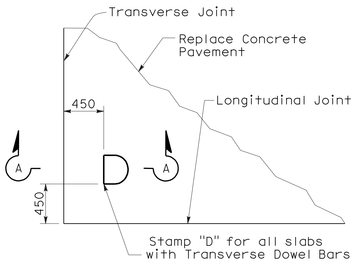
PLAN

NOTES:

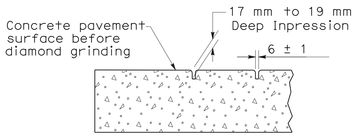
1. For details not shown see Revised Standard Plan RSP P10.
2. Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 305 mm and the "b" dimension shall be 610 mm.
3. Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
4. For detail see Transverse Contact 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 30 meters.

LEGEND

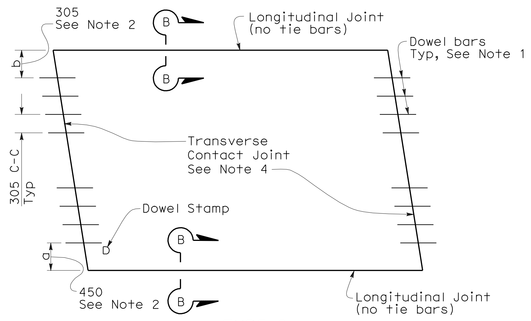
Replace Concrete Pavement (See Slab Layout Detail)



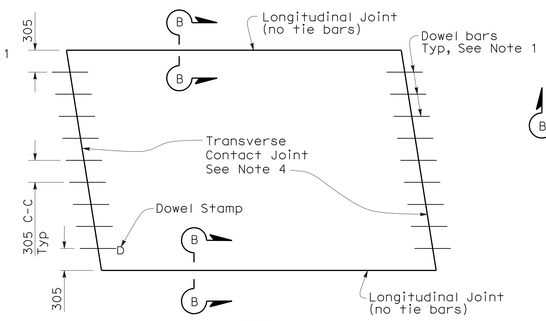
DOWEL STAMP DETAIL



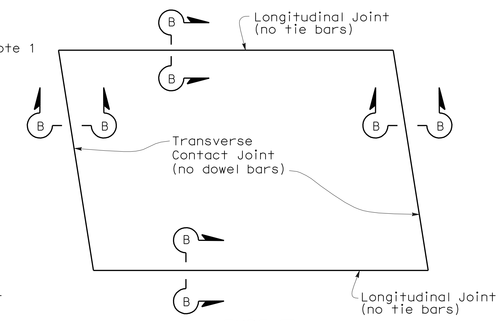
SECTION A-A



TYPE I
(traffic lane lines match longitudinal joints)

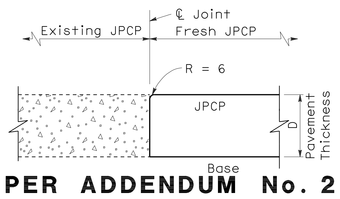


TYPE II
(traffic lane lines do not match longitudinal joints)

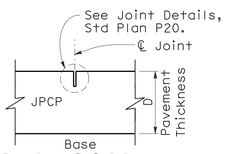


TYPE III
(for short term repairs < 5 yrs design life or for slab replacements with a cracking and seating operation)

SLAB LAYOUT



SECTION B-B



SECTION C-C

2 **ADDED PER ADDENDUM No. 2 DATED MAY 6, 2011**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-INDIVIDUAL SLAB REPLACEMENT

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NSP P8 DATED SEPTEMBER 1, 2006 SUPPLEMENTS THE STANDARD PLANS BOOK DATED JULY 2004.

NEW STANDARD PLAN NSP P8

2004 NEW Std PLAN NSP P8

8-8-06

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	2.9/4.9	827B	1082

REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

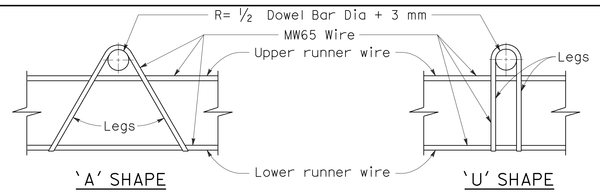
REGISTERED PROFESSIONAL ENGINEER William K. Fornbach NO. 49042 EXP. 09-30-08 CIVIL STATE OF CALIFORNIA

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.

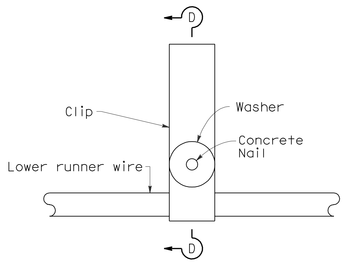
To get to the Caltrans web site, go to: http://www.dot.ca.gov

To accompany plans dated 6-21-10

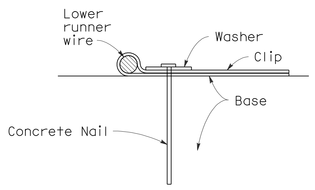
2



ASSEMBLY FRAME DETAILS

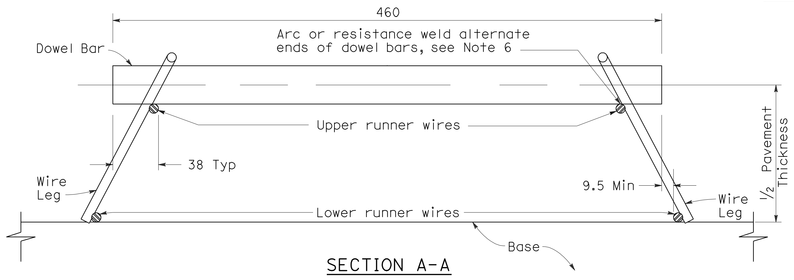


PLAN

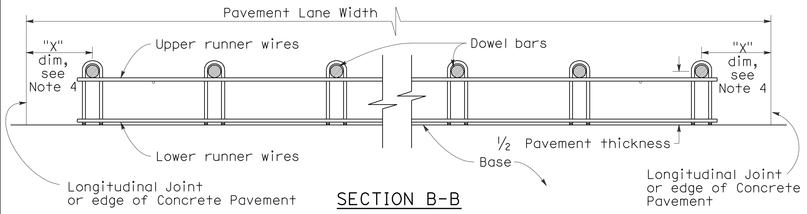


SECTION D-D

FASTENER DETAIL



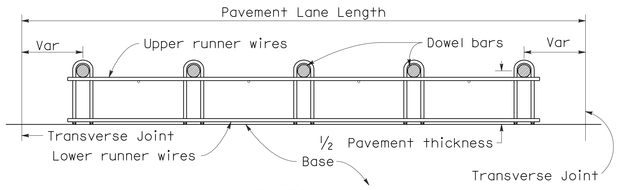
SECTION A-A



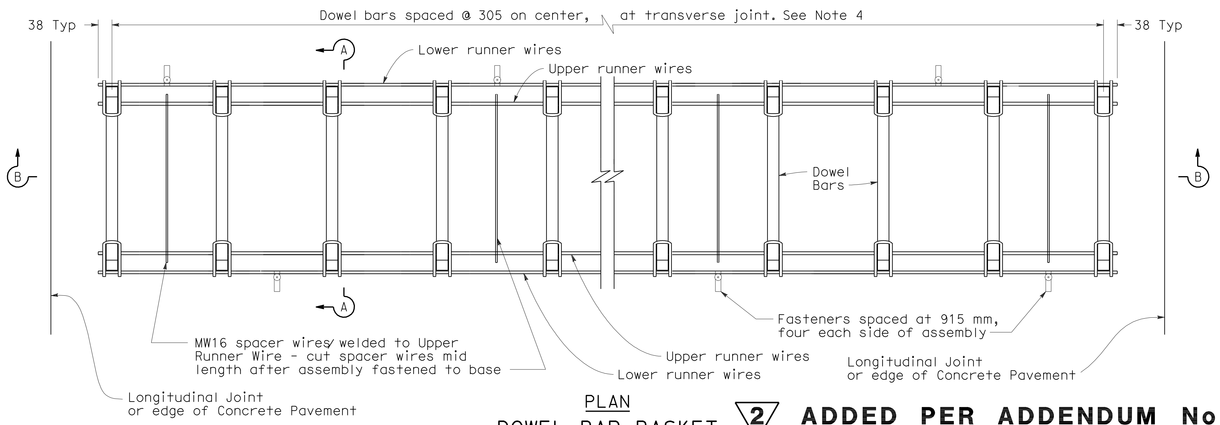
SECTION B-B
See Note 1

NOTES

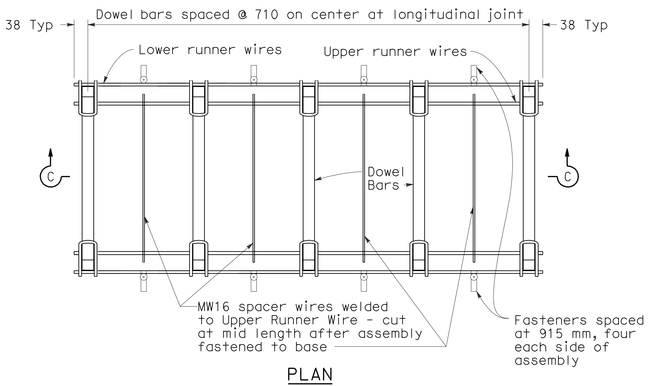
1. 'U' frame shape assembly shown. 'U' frame shape or 'A' frame shape are acceptable.
2. Wire sizes shown are minimum required.
3. All wire intersections are to be resistance welded.
4. For "X" dimension, number of dowel bars between longitudinal joints and other details for dowel bars not shown, See Revised Standard Plan RSP P10.
5. Use tie bar spacing for longitudinal dowel bar locations. See Revised Standard Plans RSP P1 and RSP P2, and New Standard Plan NSP P3 for tie bar requirements.
6. Weld may be at top or bottom of dowel bar.



SECTION C-C
See Note 1 and 5



PLAN
DOWEL BAR BASKET
(TRANSVERSE JOINT)
See Note 1



PLAN
DOWEL BAR BASKET
(LONGITUDINAL JOINT)
See Note 1

2 **ADDED PER ADDENDUM No. 2 DATED MAY 6, 2011**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR BASKET DETAILS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP P12 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN P12 DATED JULY 1, 2004-PAGE 126 OF THE STANDARD PLANS BOOK DATED JULY 2004.

REVISED STANDARD PLAN RSP P12

2004 REVISED Std PLAN RSP P12

10-25-06

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	2.9/4.9	827C	1082

REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

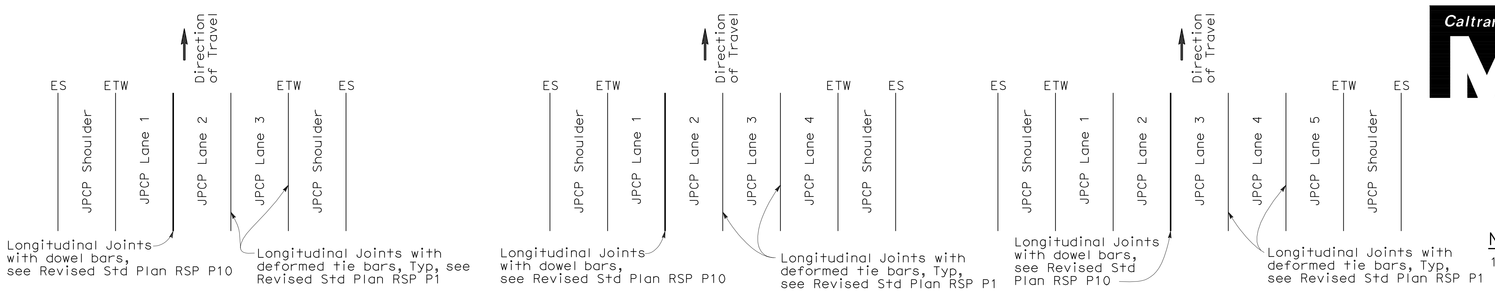
REGISTERED PROFESSIONAL ENGINEER William K. Fornbach NO. 49042 EXP. 09-30-08 CIVIL STATE OF CALIFORNIA

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 get to the Caltrans web site, go to: http://www.dot.ca.gov

To accompany plans dated 6-21-10

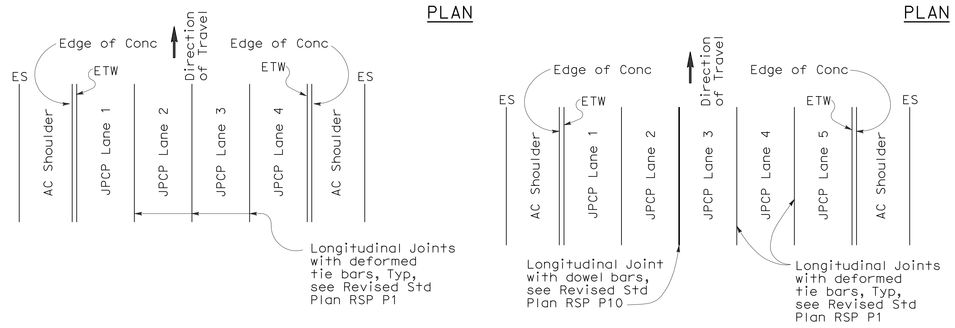
2



3 LANES WITH CONCRETE SHOULDERS
PLAN

4 LANES WITH CONCRETE SHOULDERS
PLAN

5 LANES WITH CONCRETE SHOULDERS
PLAN

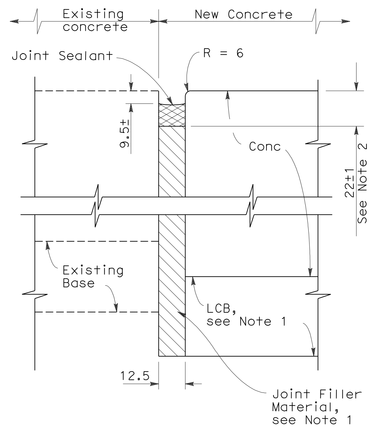


4 LANES OR LESS WITH AC SHOULDERS
PLAN

5 LANES WITH AC SHOULDERS
PLAN

NOTES

1. Where Lean Concrete Base is not used as base material, the joint filler material used for the longitudinal isolation joint shall only extend to the bottom of the new concrete slab. See Detail A.
2. Use 16±1 mm dimension for silicone sealant.
3. See Revised Stadard Plan RSP P10 for longitudinal joint with dowel bars.

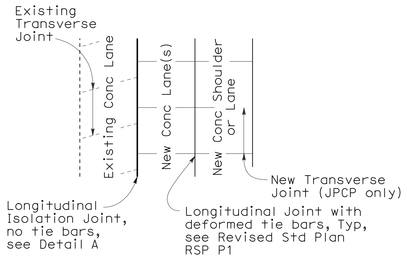


DETAIL A

ISOLATION JOINT

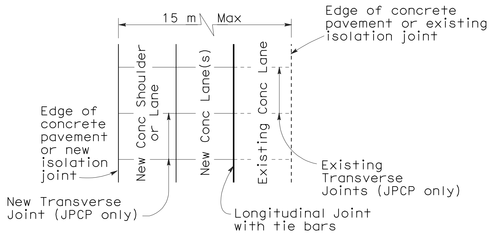
NEW CONSTRUCTION

Location of Longitudinal Joints (JPCP only)



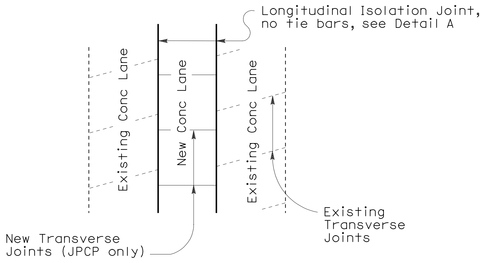
CASE 1
PLAN

Transverse Joints do not align between new and existing



CASE 2
PLAN

Transverse Joints align between new and existing



CASE 3 (INTERIOR LANE REPLACEMENT)
PLAN

Transverse Joints do not align between new and existing

LANE/SHOULDER ADDITION OR RECONSTRUCTION

For JPCP and Continuous Reinforced Concrete Pavement

2 **ADDED PER ADDENDUM No. 2 DATED MAY 6, 2011**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-LANE SCHEMATICS AND ISOLATION JOINT DETAIL

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP P18 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN P18 DATED JULY 1, 2004-PAGE 128 OF THE STANDARD PLANS BOOK DATED JULY 2004.

REVISED STANDARD PLAN RSP P18

2004 REVISED Std PLAN RSP P18

8-9-06

NOTE

1. Tie bars, dowel bars, and reinforcement are not shown in joint seal details, see Revised Std Plan RSP P1, New Std Plan NSP P3, Revised Std Plan RSP P10, Std Plan P35, Std Plan P45, or Std Plan P46 as applicable.

To accompany plans dated 6-21-10

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	5	2.9/4.9	827D	1082

REGISTERED CIVIL ENGINEER

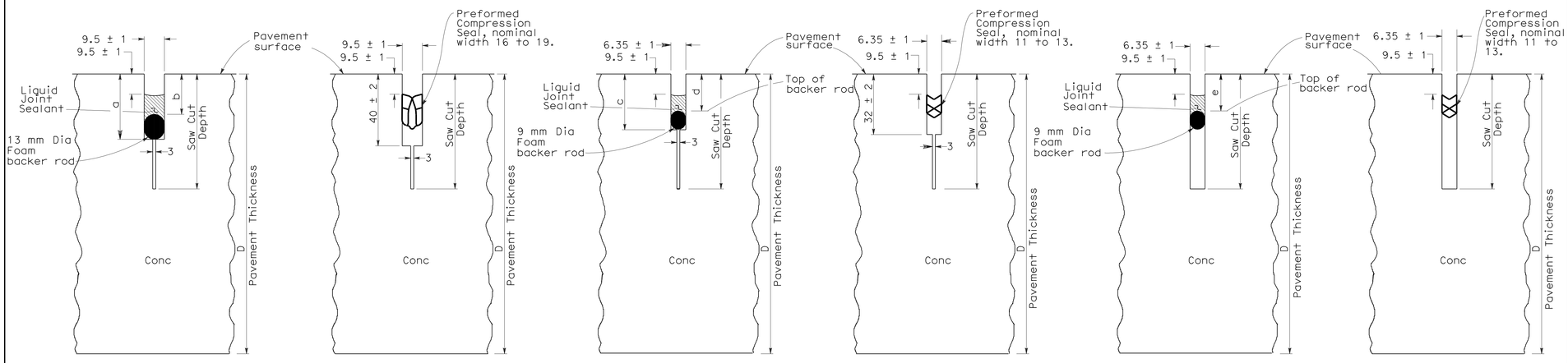
November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Fornbach NO. 49042 EXP. 09-30-08 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 get to the Caltrans web site, go to: http://www.dot.ca.gov

2



LIQUID SEALANT | COMPRESSION SEAL

TYPE A1
Transverse Weakened Plane Joints

LIQUID SEALANT | COMPRESSION SEAL

TYPE A2
Longitudinal Weakened Plane Joints

LIQUID SEALANT | COMPRESSION SEAL

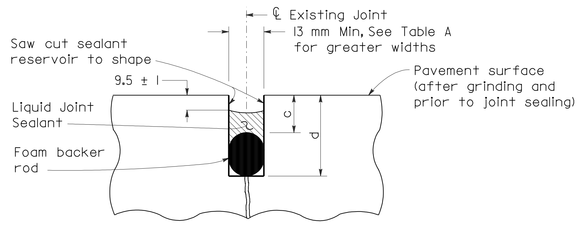
TYPE B
Longitudinal or Transverse Weakened Plane Joints

LIQUID SEALANT RESERVOIR DEPTH

LIQUID SEALANT MATERIAL	9.5 mm Joint Width Type A1		6.35 mm Joint Width Type A2		6.35 mm Joint Width Type B
	DIMENSION		DIMENSION		DIMENSION
	a	b	c	d	e
SILICONE	26 ± 1	15 ± 1	23 ± 1	14 ± 1	14 ± 1
ASPHALT RUBBER	30 ± 1	19 ± 1	26 ± 1	17 ± 1	17 ± 1

TABLE A

Sawn Joint Width	Backer Rod Diameter	Dimension "c"	Dimension "d"
mm	mm ± 1	mm	mm
25	33	22	55
22	30	20	50
19	25	19	44
16	22	18	40
13	17	16	33



LIQUID SEALANT TYPE R
Retrofit Transverse and Longitudinal Joints

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-JOINT DETAILS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP P20 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN P20 DATED JULY 1, 2004-PAGE 129 OF THE STANDARD PLANS BOOK DATED JULY 2004.

2 ADDED PER ADDENDUM No. 2 DATED MAY 6, 2011

REVISED STANDARD PLAN RSP P20

2004 REVISED Std PLAN RSP P20

10-24-06