Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	3	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 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.

NOTES:

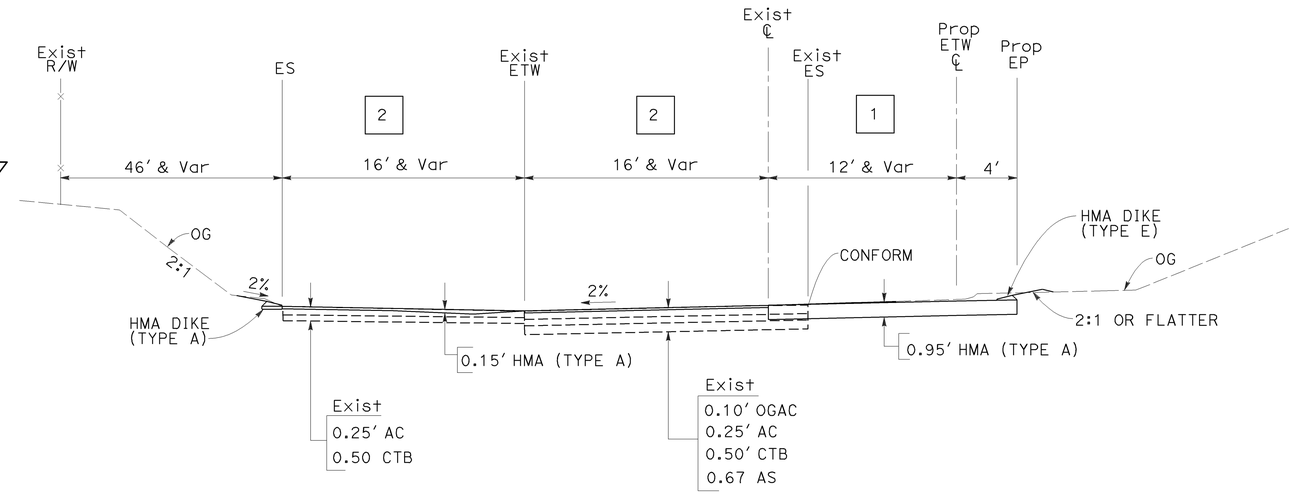
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. SEE SHEET L-1 FOR LOCATIONS AND DIMENSIONS OF RAMP WIDENING.
4. ~~SEE SHEET ECD-1 FOR EROSION CONTROL.~~ 1

LEGEND:

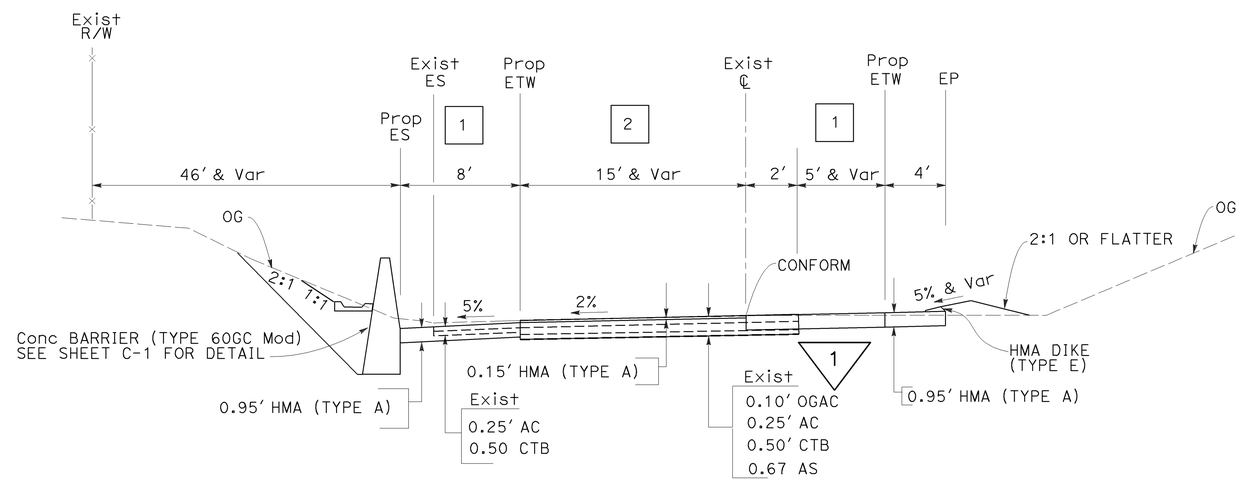
No. STRUCTURAL SECTION TYPE

ABBREVIATION:

HMA (A) HOT MIXED ASPHALT (TYPE A)



AVALON Dr SB ON-RAMP
Sta AV 45+25 TO 46.57



AVALON Dr SB ON-RAMP
Sta S1 355+31.57 TO AV 45+25

STRUCTURAL SECTION NOTES:

1 PROPOSED STRUCTURAL SECTION
0.95' HMA (TYPE A)

2 *COLD PLANE 0.15'*
~~Exist STRUCTURAL SECTION~~ 1
0.15' HMA (TYPE A)

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

TYPICAL CROSS SECTIONS
NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: PAUL MAI
CALCULATED-DESIGNED BY: DANIEL MULUGETA
CHECKED BY: TUNG LY
REVISED BY
DATE REVISED

J:\1hermie\153401add\add\415340ca001.add

LAST REVISION 11-09-09
DATE PLOTTED => 11-JAN-2010
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	4	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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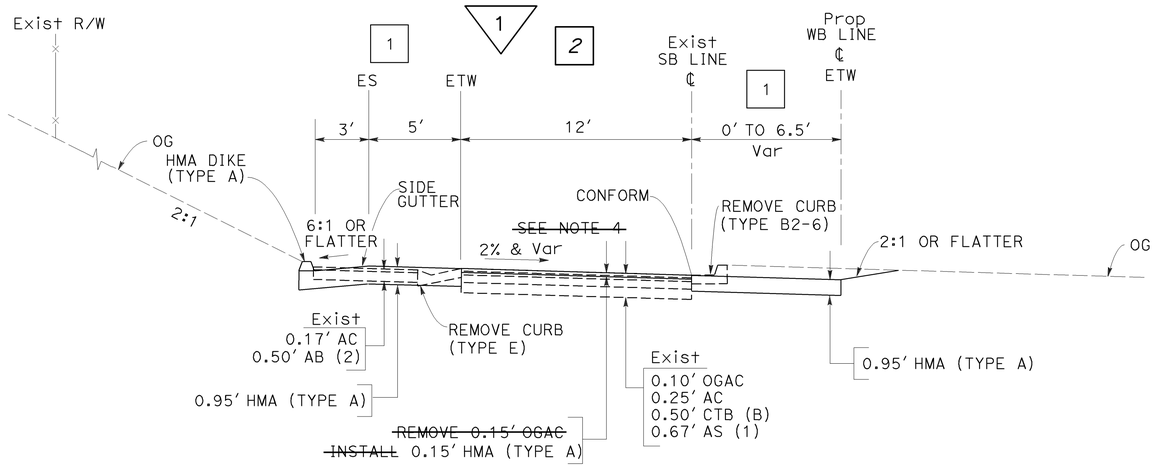
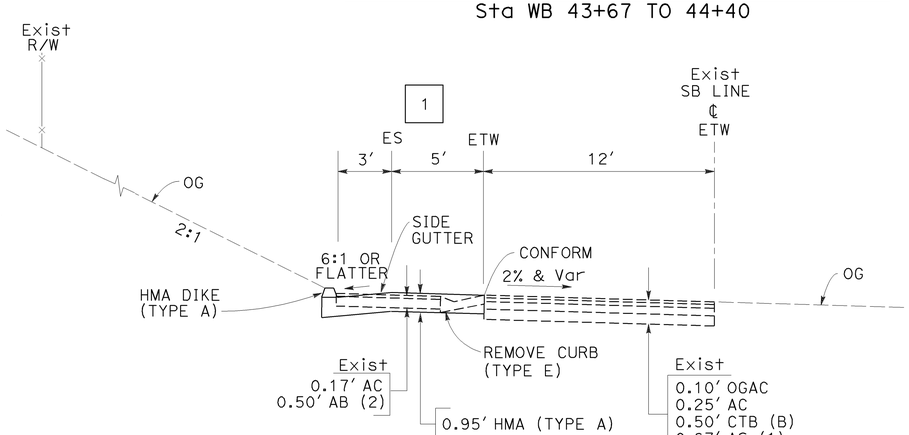
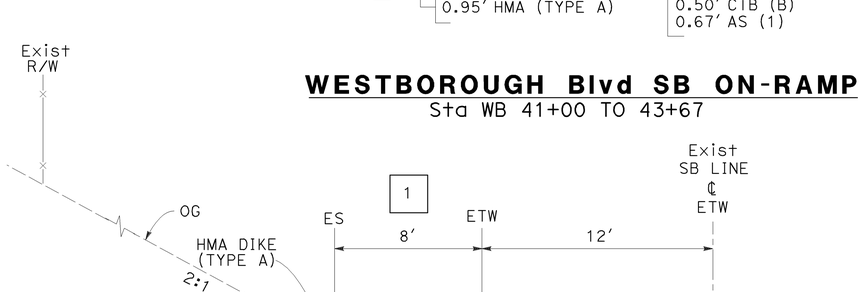


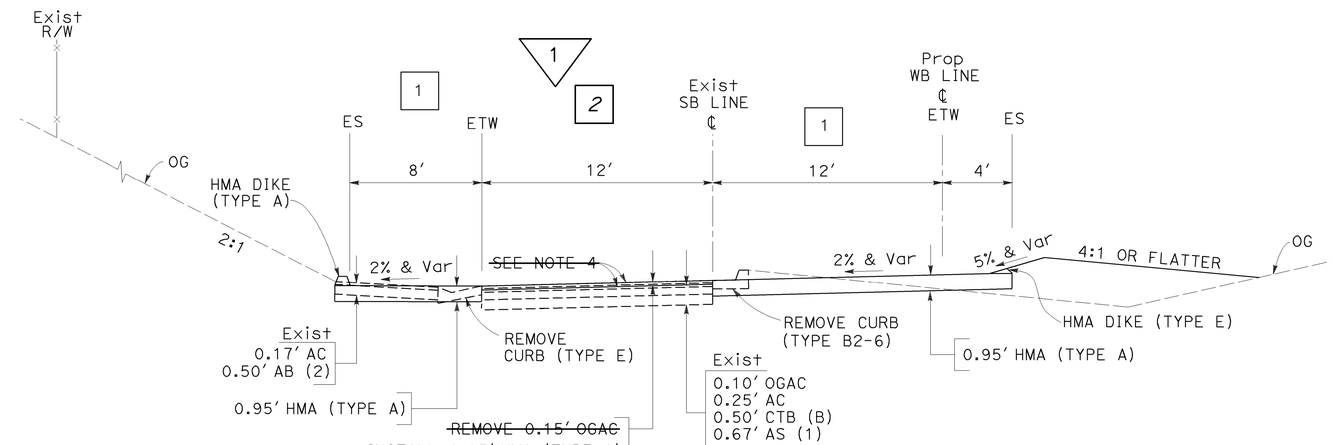
WESTBOROUGH Blvd SB ON-RAMP
Sta WB 43+67 TO 44+40



WESTBOROUGH Blvd SB ON-RAMP
Sta WB 41+00 TO 43+67



WESTBOROUGH Blvd SB ON-RAMP
Sta S1 387+88.92 TO WB 41+00



WESTBOROUGH Blvd SB ON-RAMP
Sta WB 44+40 TO 49+90.84

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

FOR NOTES AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTIONS
NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **DESIGN**
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DATE REVISED

LAST REVISION 11-09-09
DATE PLOTTED => 11-JAN-2010
TIME PLOTTED => 13:17

J:\1hermie\153401add\add\415340ca002.add

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s133066
DGN FILE => 415340ca002.add
CU 04237
EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	7	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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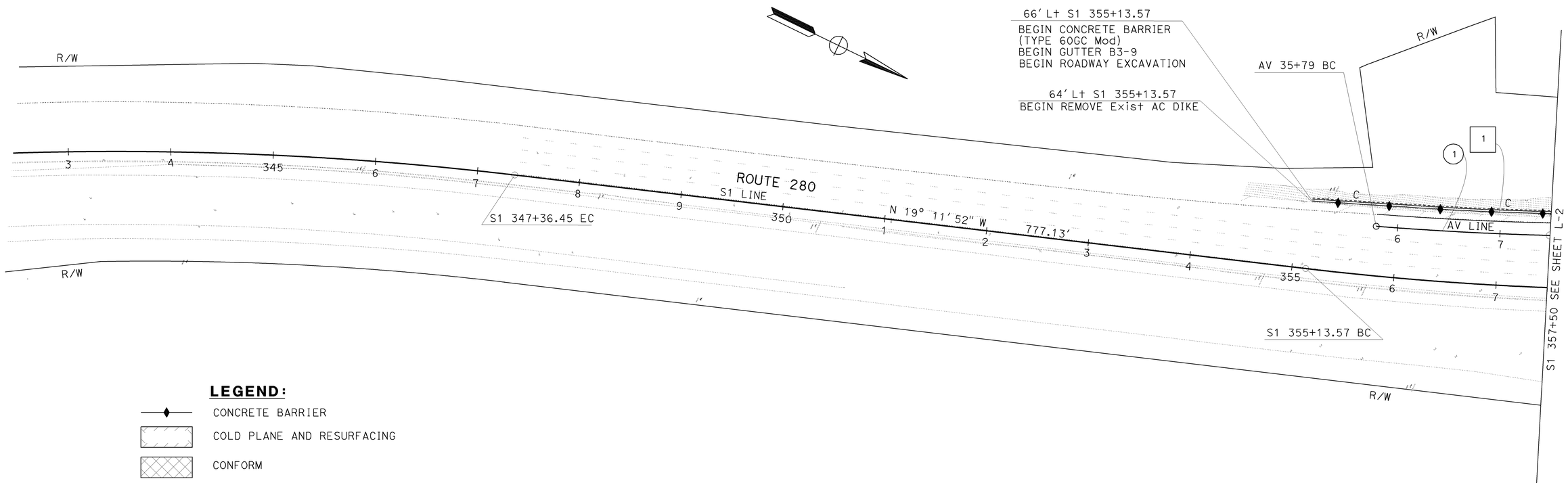
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2940.00′	3°18′20″	84.83′	169.61′	2059027.92	5997245.11

NOTE:

1. COORDINATE VALUES SHOWN ARE CCS83, ZONE 3. VERTICAL DATUM IS NAVD 1988.



LEGEND:

- CONCRETE BARRIER
- COLD PLANE AND RESURFACING
- CONFORM
- ~~REMOVE BASE & SURFACING~~ 1
- CONTRASTING SURFACING AREA TREATMENT
- No — STRUCTURAL SECTION

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

LAYOUT
(LOCATION 2A)
SCALE: 1″ = 50′

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**
FUNCTIONAL SUPERVISOR: TUNG LY
CALCULATED-DESIGNED BY: DANIEL MULUGETA
CHECKED BY: SON TRAN
REVISED BY / DATE REVISED

J:\1hermie\153401add\add\415340ea001.add

LAST REVISION 11-16-09 DATE PLOTTED => 11-JAN-2010 TIME PLOTTED => 13:17

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s133066 DGN FILE => 415340ea001.add | CU 04237 | EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	8	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

T. Ly No. 52534 Exp. 12-31-10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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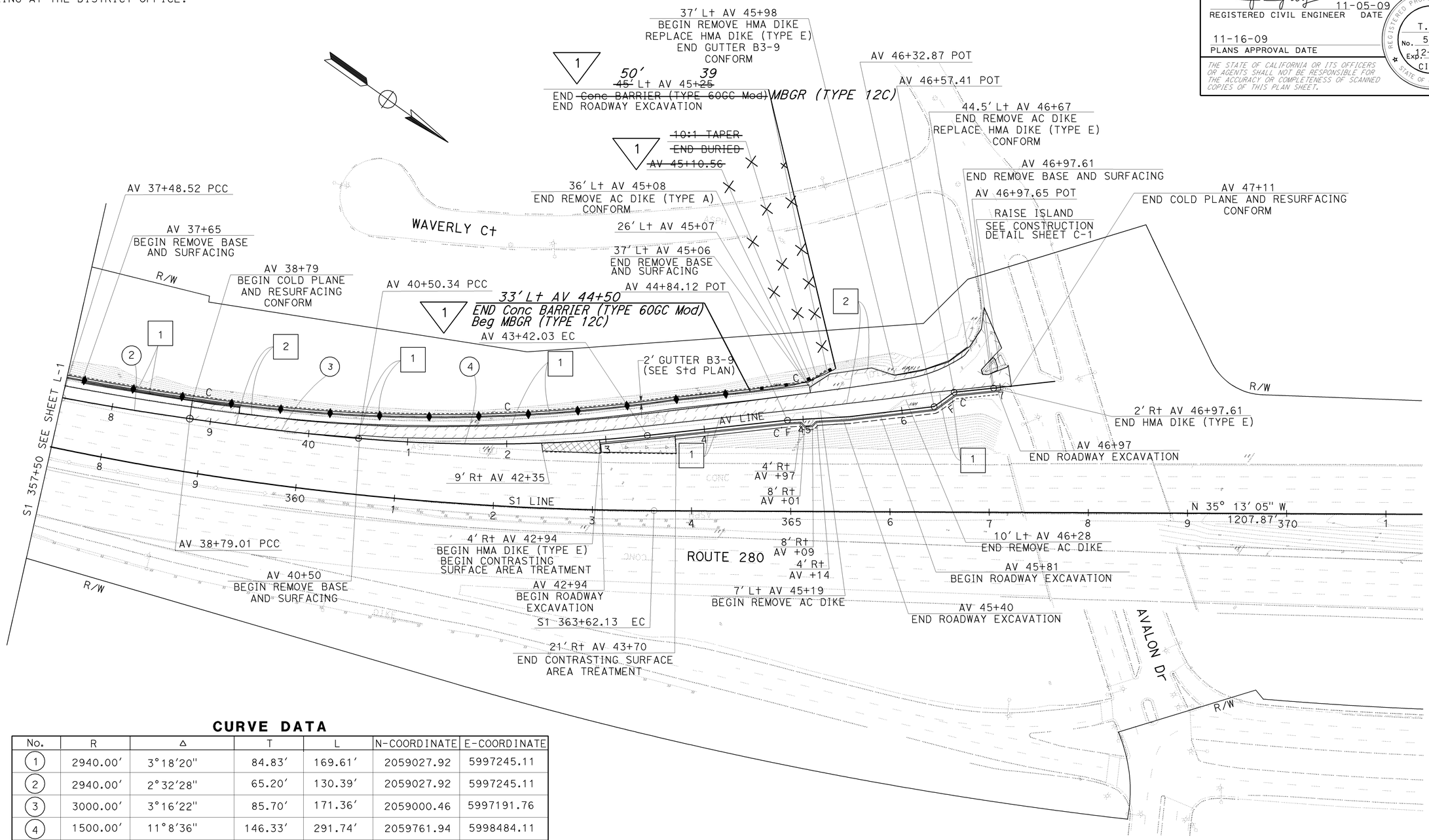
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2940.00'	3°18'20"	84.83'	169.61'	2059027.92	5997245.11
2	2940.00'	2°32'28"	65.20'	130.39'	2059027.92	5997245.11
3	3000.00'	3°16'22"	85.70'	171.36'	2059000.46	5997191.76
4	1500.00'	11°8'36"	146.33'	291.74'	2059761.94	5998484.11
5	3034.81'	16°1'13"	427.06'	848.56'	2059058.32	5997183.68

1 **REVISED PER ADDENDUM No. 1 DATED** JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT
(LOCATION 2B)
SCALE: 1'' = 50'

L-2

REVISED BY | DATE REVISED
DANIEL MULUGETA | SON TRAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: PAUL MAI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

J:\thermie\153401add\add\415340ea002.add

LAST REVISION 11-12-09 | DATE PLOTTED => 11-JAN-2010 | TIME PLOTTED => 13:17

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s133066 | DGN FILE => 415340ea002.add | CU 04237 | EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	9	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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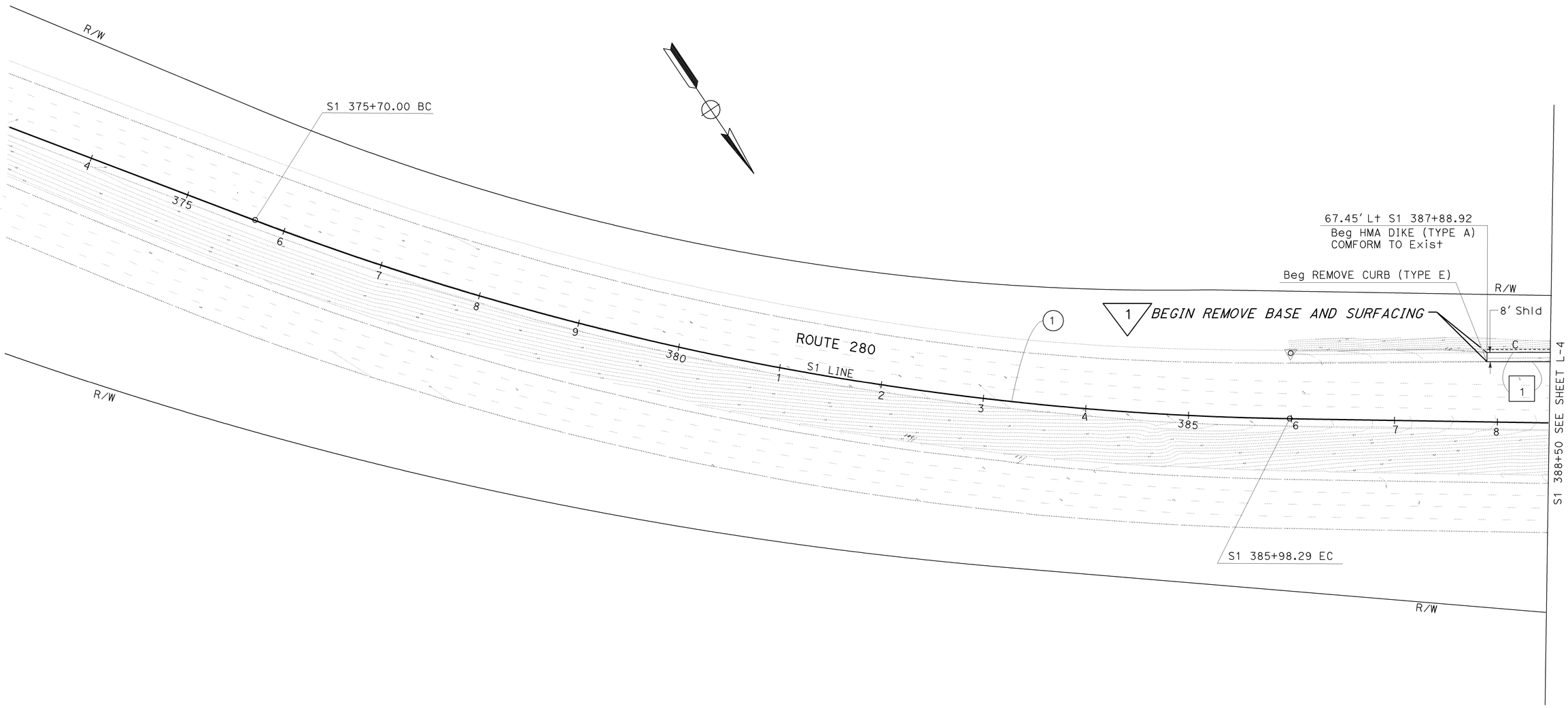
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2962.719′	19°53′09″	519.366′	1028.284′	2060086.663	5996546.024



1 REVISED PER ADDENDUM No. 1 DATED JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT
(LOCATION 3A)
SCALE: 1″ = 50′

L-3

REVISED BY | DATE REVISED
ANH LE | SON TRAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
TUNG LY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

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LAST REVISION 11-12-09 | DATE PLOTTED => 11-JAN-2010 | TIME PLOTTED => 14:07

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s133066 | DGN FILE => 415340ea003.add | CU 04237 | EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	10	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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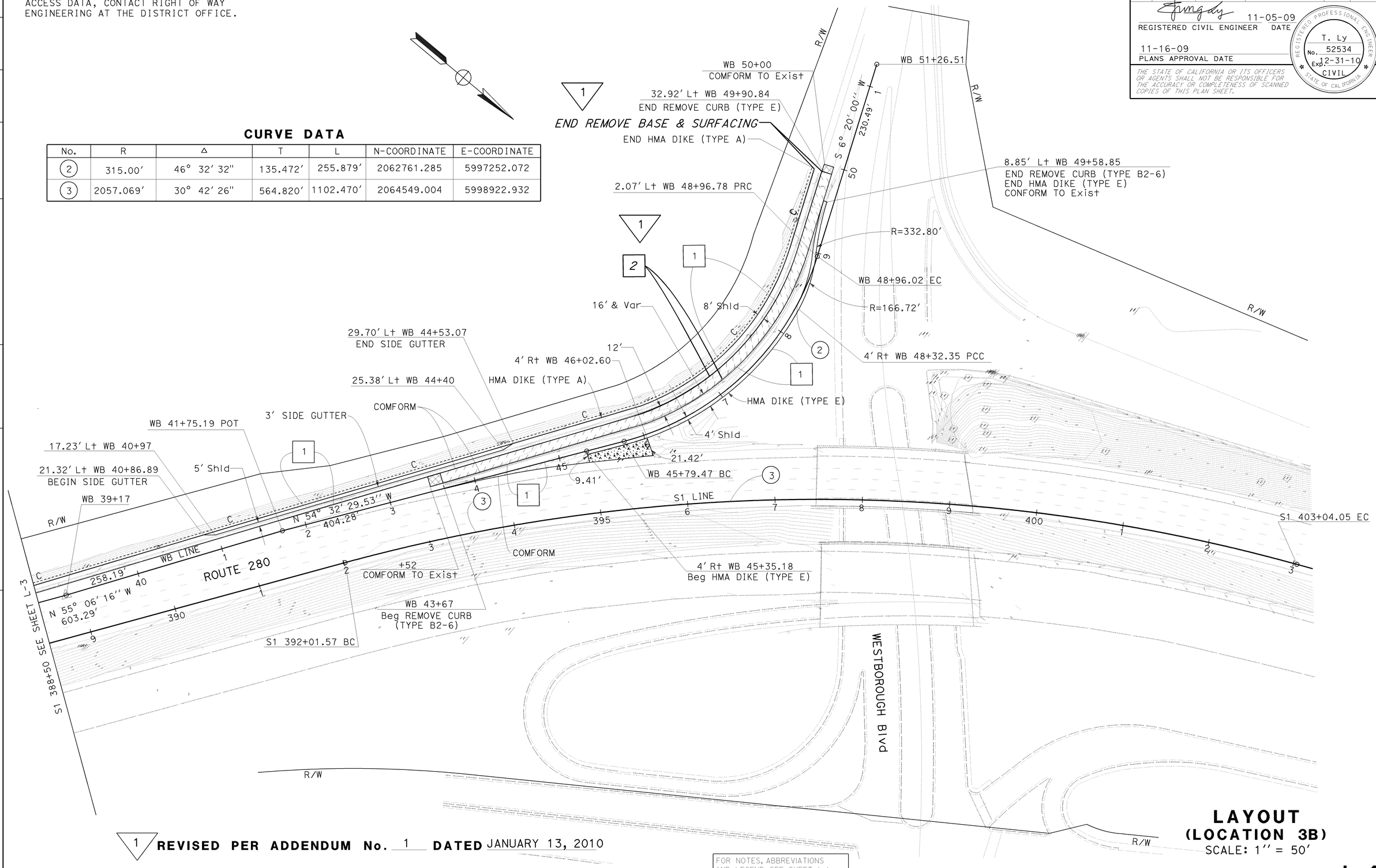
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
2	315.00′	46° 32′ 32″	135.472′	255.879′	2062761.285	5997252.072
3	2057.069′	30° 42′ 26″	564.820′	1102.470′	2064549.004	5998922.932



1 REVISED PER ADDENDUM No. 1 DATED JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT (LOCATION 3B)

SCALE: 1″ = 50′

L-4

REVISED BY | DATE REVISED
ANH LE | SON TRAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
TUNG LY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

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LAST REVISION 11-12-09 | DATE PLOTTED => 11-JAN-2010 | TIME PLOTTED => 13:18

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s133066 | DGN FILE => 415340ea004.add | CU 04237 | EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	11	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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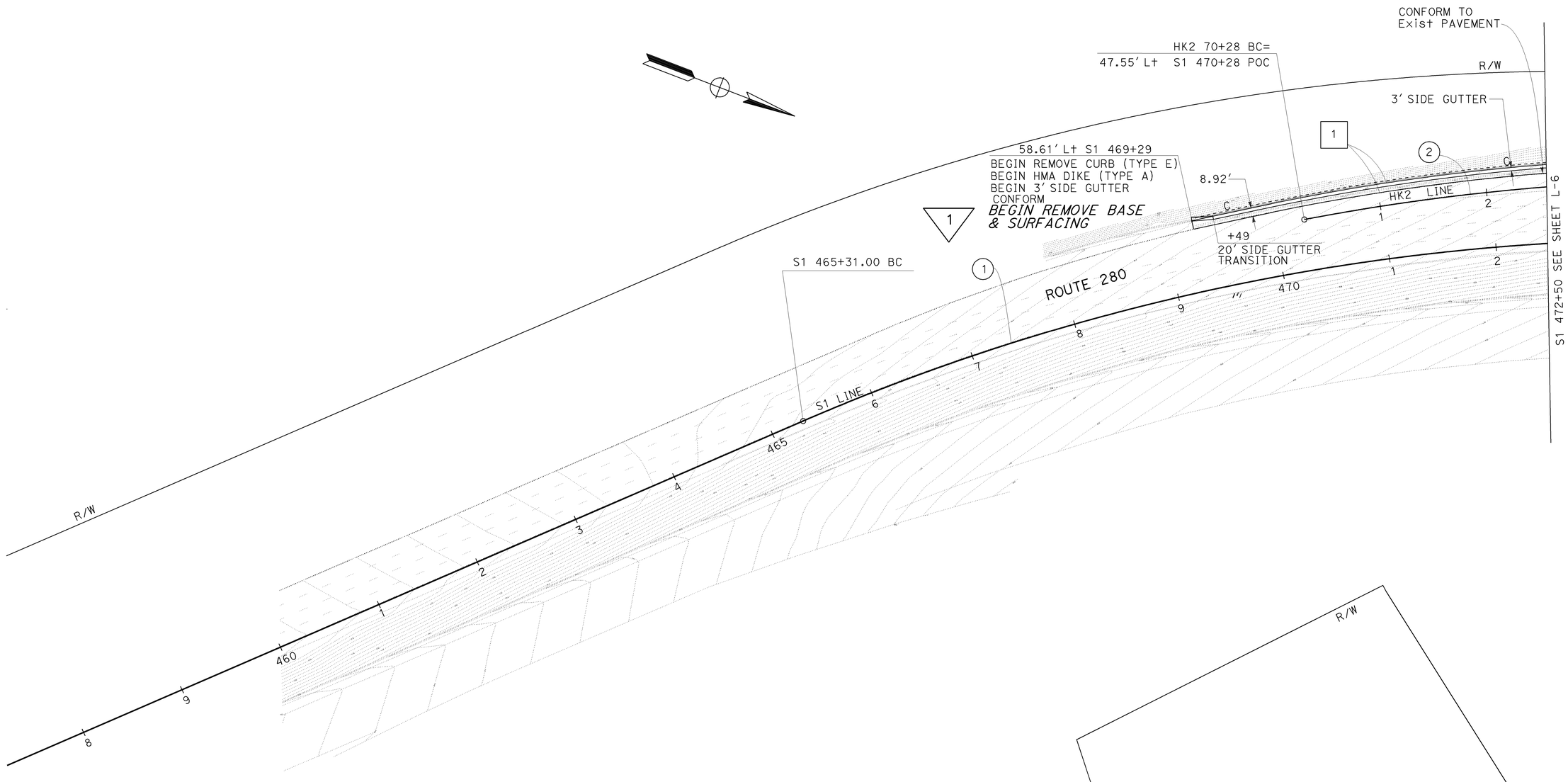
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2060.37′	31°34′23″	582.50′	1135.37′	2070013.85	5994770.78
2	2107.92′	7°55′35″	146.04′	291.61′	2070051.19	5994747.70



1 REVISED PER ADDENDUM No. 1 DATED JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT
(LOCATION 4A)
SCALE: 1″ = 50′

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: TUNG LY
CALCULATED-DESIGNED BY: QUOC TRAN
CHECKED BY: SON TRAN
REVISED BY
DATE REVISED

LAST REVISION 11-12-09
DATE PLOTTED => 11-JAN-2010
TIME PLOTTED => 13:18

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BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s133066
DGN FILE => 415340ea005.add
CU 04237
EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	12	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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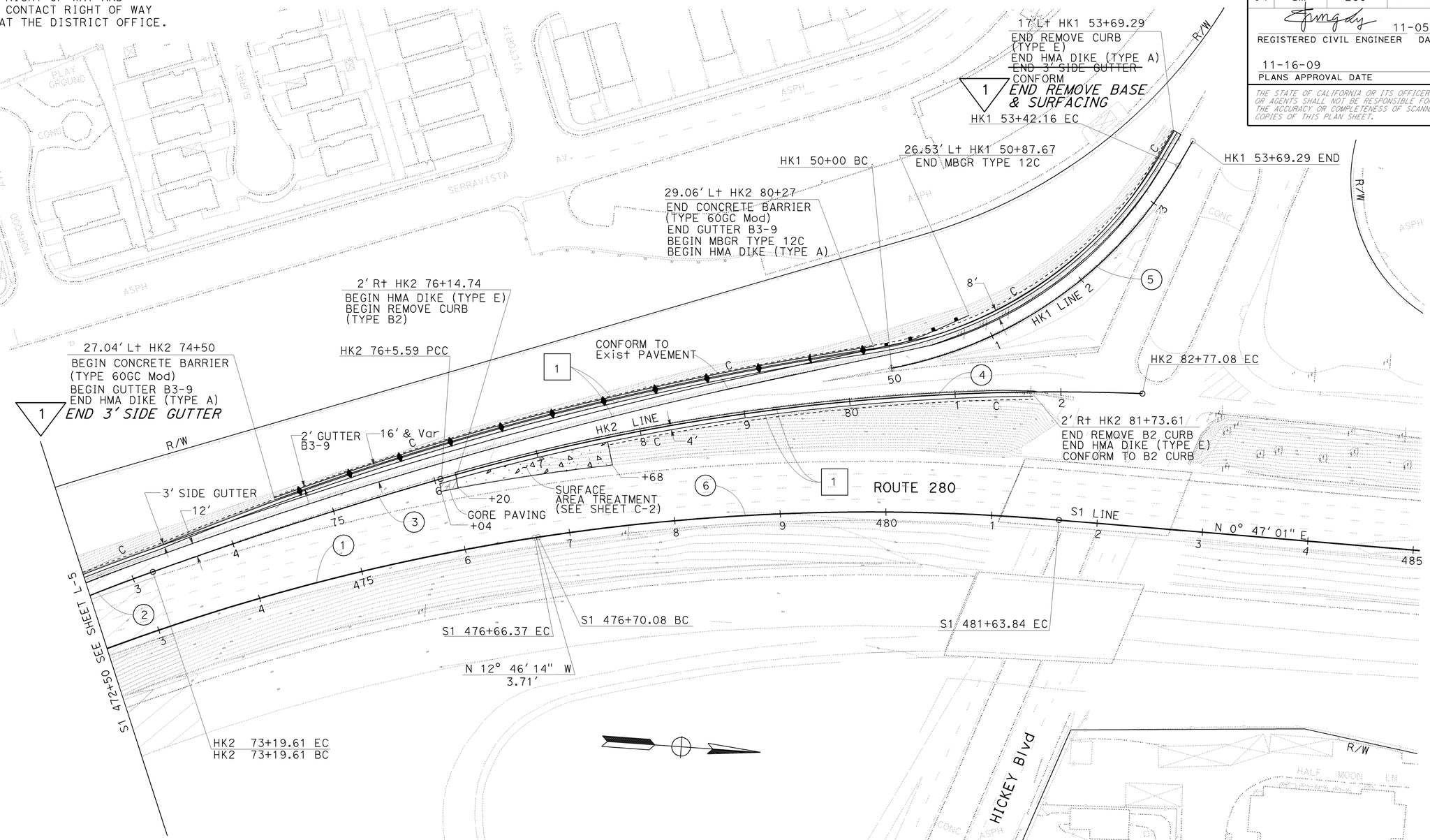
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2060.37'	31°34'23"	582.50'	1135.37'	2070013.85	5994770.78
2	2107.92'	7°55'35"	146.04'	291.61'	2070051.19	5994747.70
3	4499.64'	3°38'29"	143.04'	285.97'	2071016.65	5996935.89
4	2097.41'	18°20'37"	338.65'	671.50'	2070188.50	5994680.93
5	400.01'	49°0'36"	182.33'	342.16'	2069781.57	5992190.62
6	2073.37'	13°38'41"	248.05'	493.76'	2070020.37	5994782.63

1 REVISED PER ADDENDUM No. 1 DATED JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT (LOCATION 4B)

SCALE: 1" = 50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: TUNG LY
CALCULATED-DESIGNED BY: QUOC TRAN
CHECKED BY: SON TRAN
REVISED BY / DATE REVISED

LAST REVISION 11-12-09
DATE PLOTTED => 11-JAN-2010
TIME PLOTTED => 13:18

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BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s133066
DGN FILE => 415340ea006.add
CU 04237
EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	13	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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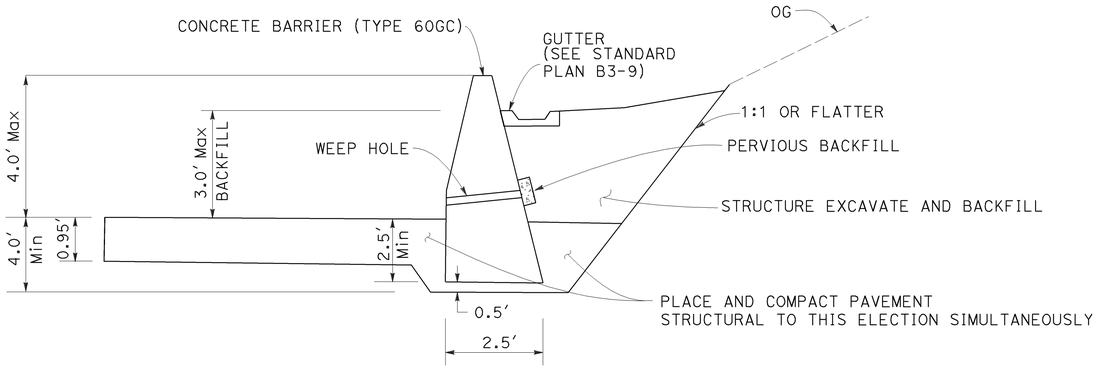
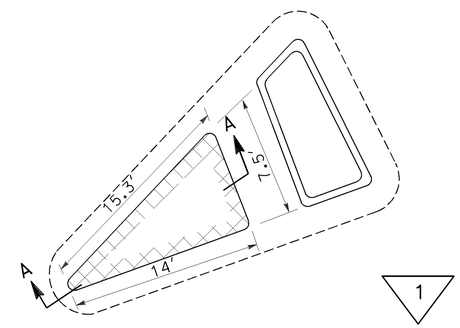


TYPICAL CROSS SECTION FOR TYPE 60GC BARRIER Mod

STA HK2 74+50 TO 80+27 - LOCATION 4, HICKEY Blvd/I280
STA S1 355+13.57 TO AV 45+25 - LOCATION 2, AVALON Dr/I 280

NOTES:

1. WEEP HOLE AND PERVIOUS BACKFILL, SEE STANDARD PLAN BO-3, BRIDGE DETAIL 3-1.
2. PLACE WEEP HOLE AT 25 FT INTERVALS.



1

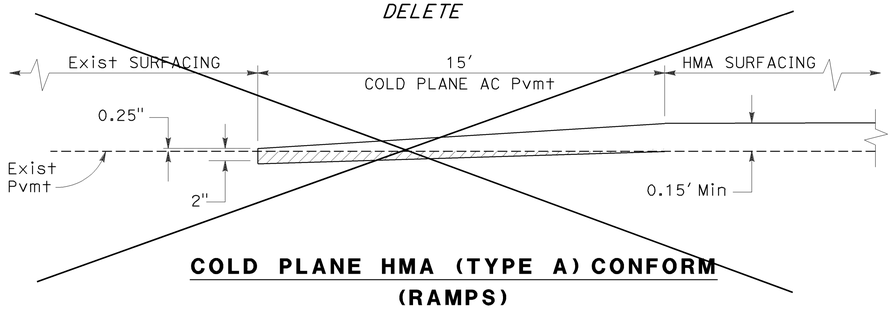
REMOVED AND RECONSTRUCTED

ISLAND TO ~~BE RAISED~~
ON AVALON Dr I 280 SB

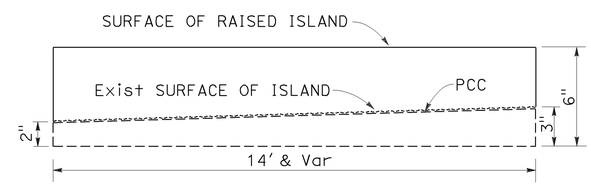
LOCATION 2

1

DELETE



COLD PLANE HMA (TYPE A) CONFORM
(RAMPS)



SECTION A-A

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: PAUL MAI
CALCULATED-DESIGNED BY: SON TRAN
CHECKED BY: TUNG LY
REVISED BY
DATE REVISED

LAST REVISION 11-16-09
DATE PLOTTED => 11-JAN-2010
TIME PLOTTED => 13:18

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	51	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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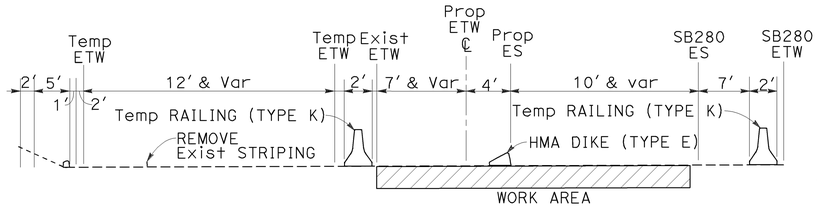
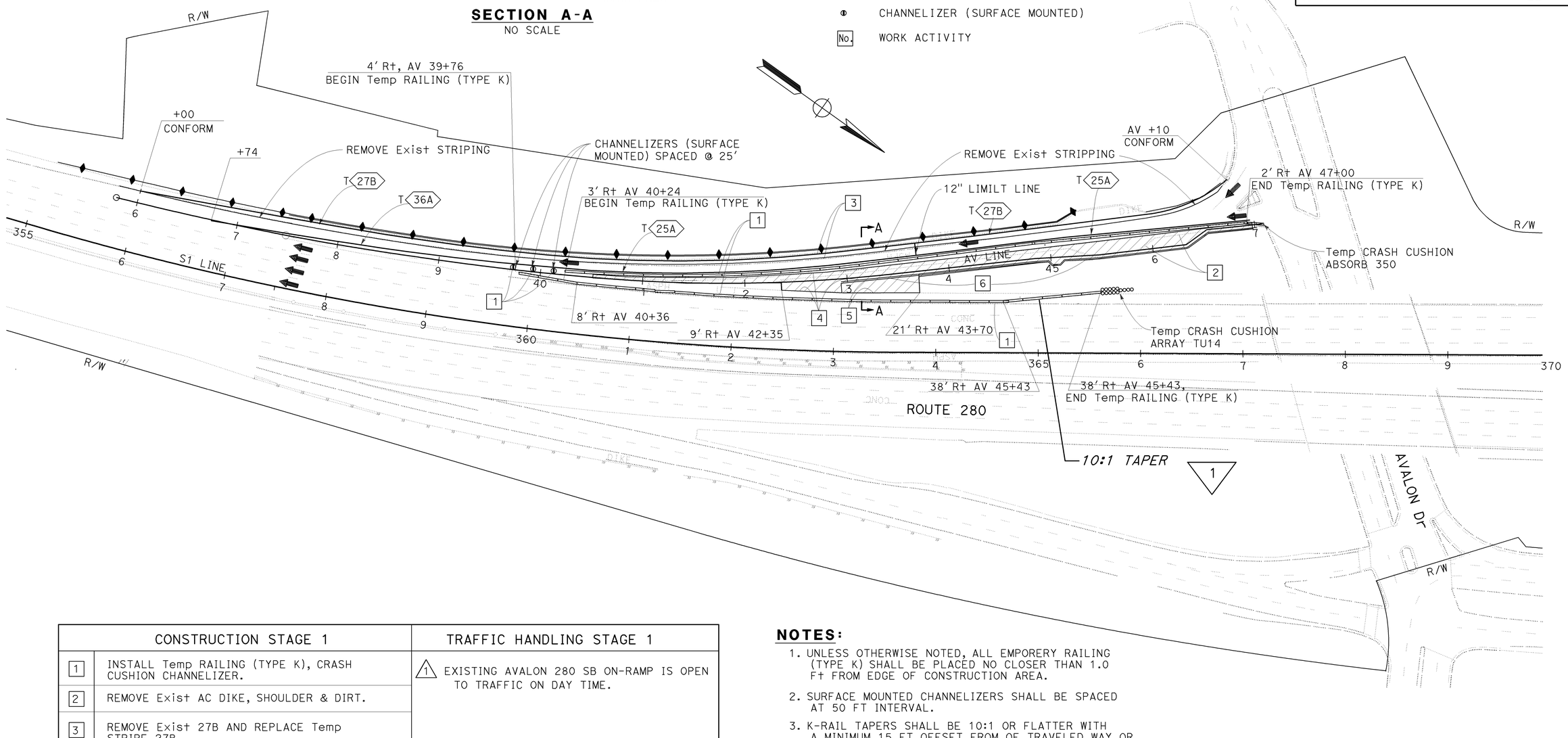
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SECTION A-A
NO SCALE

LEGEND:

- DIRECTION OF TRAVEL
- CONSTRUCT THIS STAGE
- T No. — TEMPORARY PAVEMENT DELINEATION DETAIL
- CHANNELIZER (SURFACE MOUNTED)
- No. — WORK ACTIVITY



CONSTRUCTION STAGE 1		TRAFFIC HANDLING STAGE 1
1	INSTALL Temp RAILING (TYPE K), CRASH CUSHION CHANNELIZER.	1 EXISTING AVALON 280 SB ON-RAMP IS OPEN TO TRAFFIC ON DAY TIME.
2	REMOVE Exist AC DIKE, SHOULDER & DIRT.	
3	REMOVE Exist 27B AND REPLACE Temp STRIPE 27B.	
4	INSTALL AC PAVEMENT, EXCEPT 1.8" HMA (A) FINAL LIFT.	
5	CONSTRUCT THE GORE AREA.	
6	INSTALL HMA DIKE (TYPE E).	

NOTES:

1. UNLESS OTHERWISE NOTED, ALL EMPORERY RAILING (TYPE K) SHALL BE PLACED NO CLOSER THAN 1.0 Ft FROM EDGE OF CONSTRUCTION AREA.
2. SURFACE MOUNTED CHANNELIZERS SHALL BE SPACED AT 50 FT INTERVAL.
3. K-RAIL TAPERS SHALL BE 10:1 OR FLATTER WITH A MINIMUM 15 FT OFFSET FROM OF TRAVELED WAY OR UNLESS PROTECTED BY A CRASH CUSHION.
4. SEE PD SHEETS FOR PERMANENT PAVEMENT DELINEATION LAYOUTS.
5. CONTRACTOR SHALL REMOVE ANY EXISTING CONFLICTING 1 *STRIPING* ~~STRIPPING,~~ PAVEMENT MARKERS AND MARKINGS, AND DELINEATOR.
6. UNLESS OTHERWISE NOTED, ALL TRAFFIC LANES SHALL BE AT LEAST 12.0 FT WIDE.

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

SCALE: 1'' = 50'

SC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: PAUL MAI
CALCULATED-DESIGNED BY: DANIEL MULUGETA
CHECKED BY: TUNG LY
REVISED BY
DATE REVISED

LAST REVISION 11-16-09
DATE PLOTTED => 11-JAN-2010
TIME PLOTTED => 13:18

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	53	118

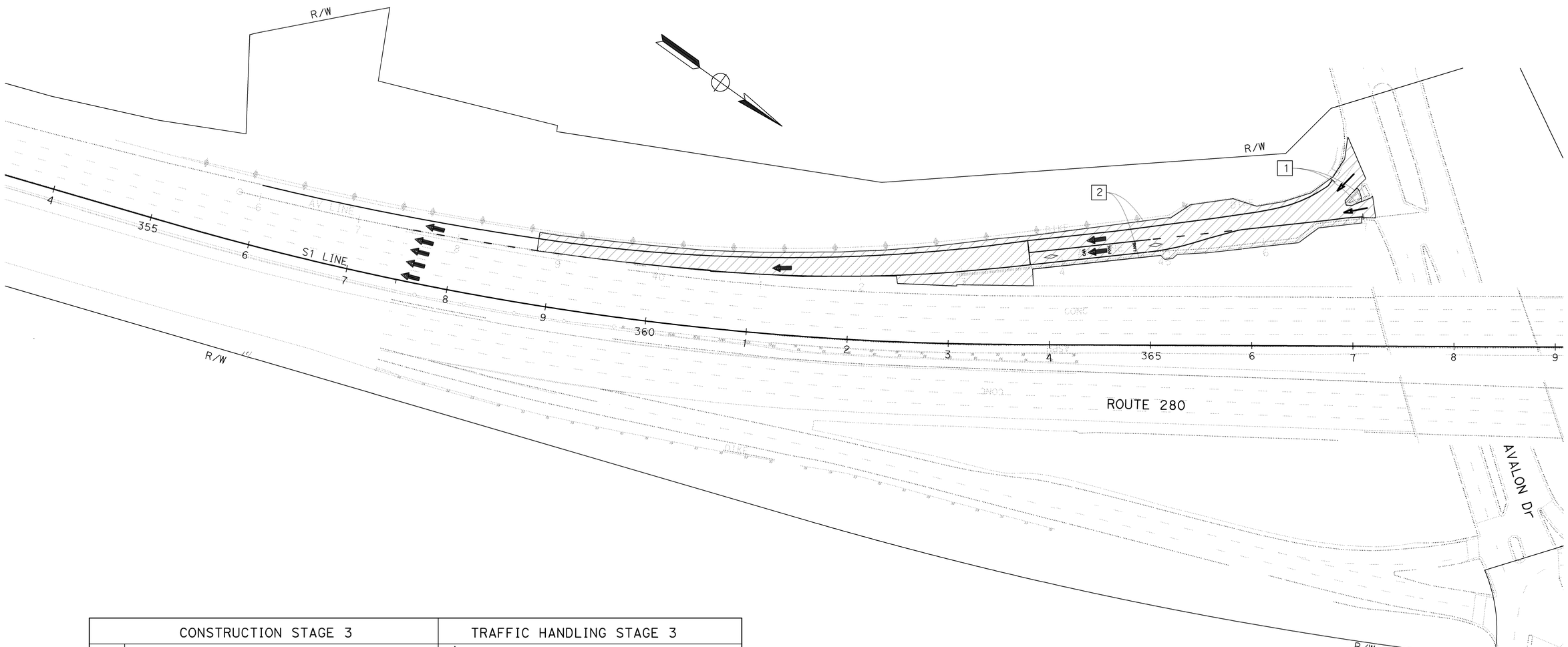
REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 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.

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



	CONSTRUCTION STAGE 3	TRAFFIC HANDLING STAGE 3
1	RAISE PART OF THE EXISTING ISLAND TO 6" (SEE Const DETAIL IN SHEET C-1).	1 EXISTING AVALON 280 SB ON-RAMP IS OPEN TO TRAFFIC DURING DAY TIME.
2	FINAL 1.8" HMA (A) ~~OVERLAY~~ *FINAL LIFT* ON THE WIDENED.	
3	FINAL PAVEMENT DELINEATION (SEE PAVEMENT DELINEATION SHEET PD-3 & 4).	

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 3

SCALE: 1'' = 50'

SC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: PAUL MAI
CALCULATED-DESIGNED BY: DANIEL MULUGETA
CHECKED BY: TUNG LY
REVISED BY
DATE REVISED

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LAST REVISION 11-09-09 DATE PLOTTED => 11-JAN-2010 TIME PLOTTED => 13:18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	55	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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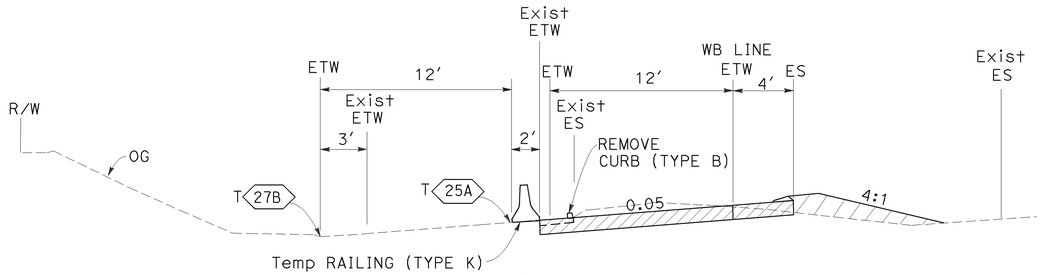
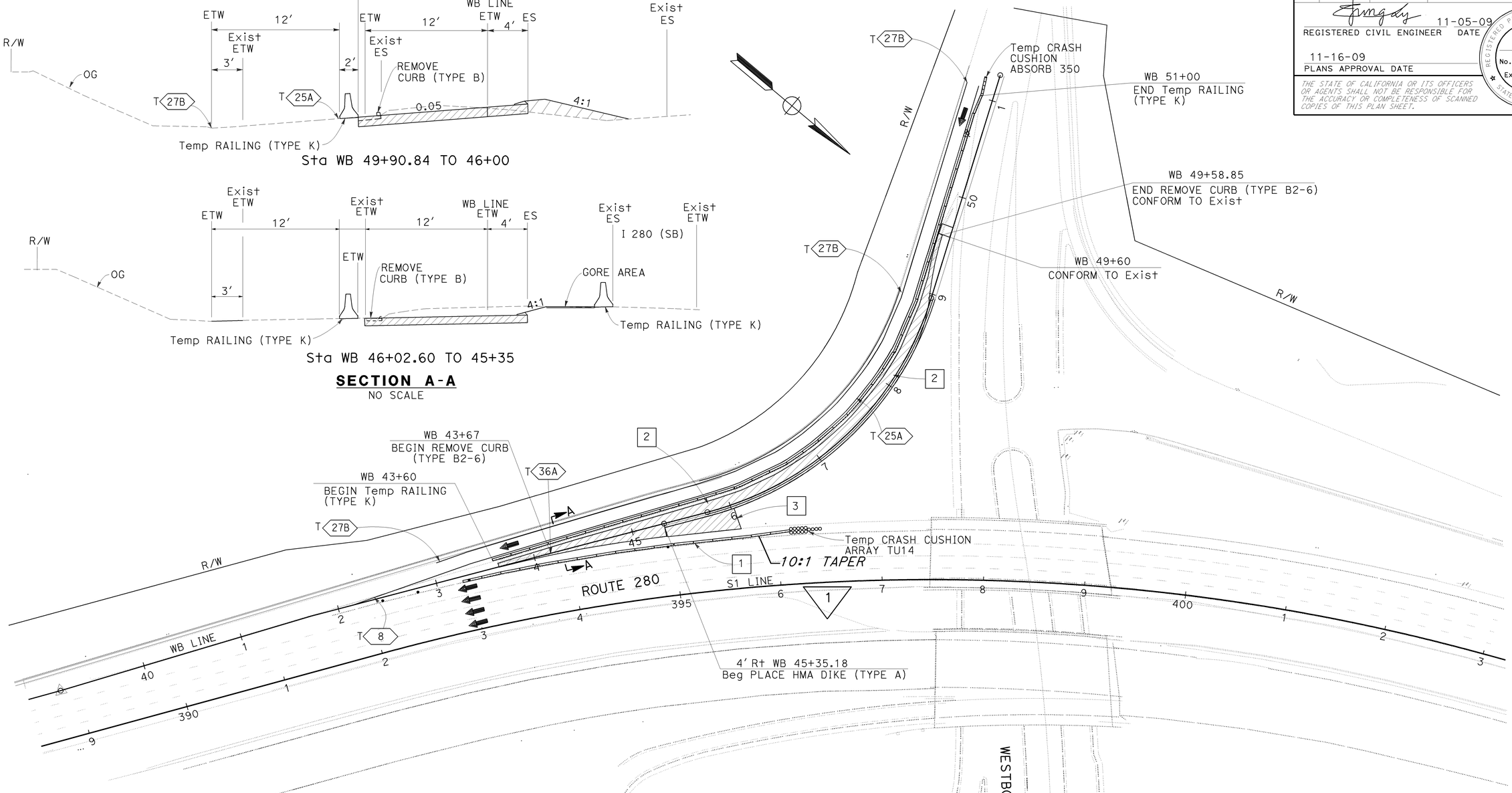


Sta WB 49+90.84 TO 46+00

Sta WB 46+02.60 TO 45+35

SECTION A-A
NO SCALE



CONSTRUCTION STAGE 2	TRAFFIC HANDLING STAGE 2
1 INSTALL Temp RAILING (TYPE K) AND CRASH CUSHION.	1 MAINTAIN 1 LANE TRAFFIC DURING CONSTRUCTION.
2 REMOVE EXISTING CURB (TYPE B2-6), REMOVE EXISTING GORE CONSTRUCT NEW LANE.	
3 CONSTRUCT NEW GORE.	

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

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STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN STAGE 2

SCALE: 1″ = 50′

SC-5

REVISED BY | DATE REVISED
SUSAN HALL | SON TRAN
CALCULATED-DESIGNED BY
FUNCTIONAL SUPERVISOR | TUNG LY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 11-11-09 | DATE PLOTTED => 11-JAN-2010 | TIME PLOTTED => 13:18

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	58	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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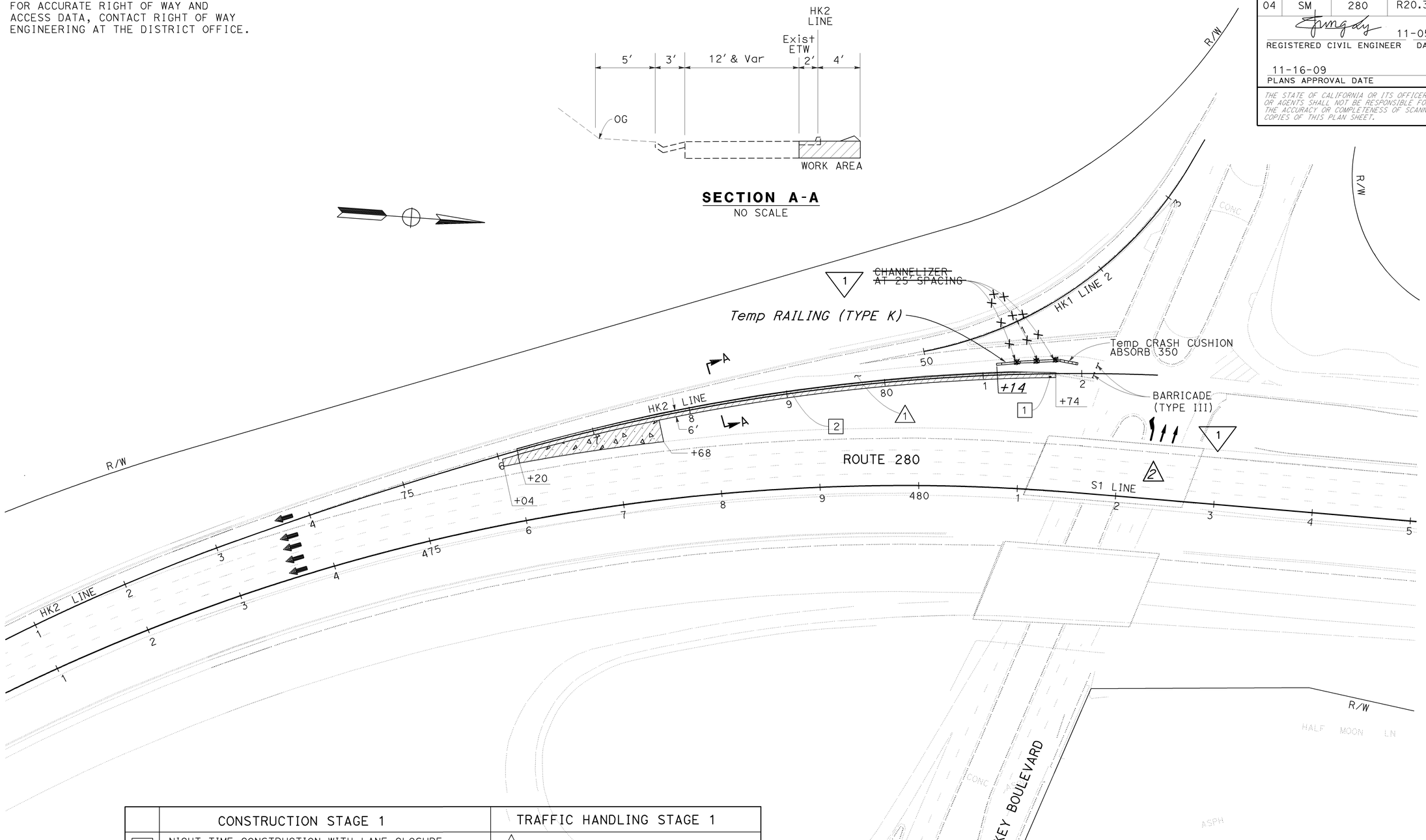
SECTION A-A
NO SCALE



	CONSTRUCTION STAGE 1	TRAFFIC HANDLING STAGE 1
1	NIGHT TIME CONSTRUCTION WITH LANE CLOSURE REMOVE EXISTING CURB (TYPE B2) ALONG HICKEY SB ON-RAMP RECONSTRUCT DI, INSTALL HMA DIKE (TYPE E). SEE TYPICAL CROSS SECTIONS SHEET X-3.	1 EXISTING SB ON-RAMP IS OPEN TO TRAFFIC DURING DAYTIME.
2	INSTALL AC PAVEMENT, GORE PAVING, AND CONTRASTING CONCRETE ARERA.	2 *MAINTAIN ONLY ONE (01) LEFTURNT TO SB ON-RAMP.* 1

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1

SCALE: 1'' = 50'

SC-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **DESIGN**
FUNCTIONAL SUPERVISOR: PAUL MAI
CALCULATED-DESIGNED BY: QUOC TRAN
CHECKED BY: TUNG LY
REVISED BY / DATE REVISED

LAST REVISION: DATE PLOTTED => 11-JAN-2010 TIME PLOTTED => 13:19
11-02-09

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BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s133066 DGN FILE => 415340ma008.add | CU 04237 | EA 153401

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	76	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 2-31-10 CIVIL STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION No.	STATION LIMITS	ASPHALT CONCRETE: HMA TYPE A FULL DEPTH (0.95')	ASPHALT CONCRETE: COLD PLANE (0.15')	PLACE HMA DIKE TYPE A	PLACE HMA DIKE TYPE E	ROADWAY EXCAVATION	IMPORTED BORROW	STRUCTURE BACKFILL	REMOVE CONCRETE CURB TYPE B-2-6	REMOVE CONCRETE CURB TYPE E	*REMOVE BASE AND SURFACING*
		TON	SQYD	LF		CY	CY	CY	LF	LF	*CY*
2	AV 35+97 TO 46.97	1282	1613	---	405	1782	---	1200	---	---	*298*
3	S1 387+89 TO 388+83 WB 39+17 TO 49+90	1285.8	832	1146	431	145	64	---	485	1146	*146*
4	HK1 50+00 TO 69+39 HK2 69+28 TO 82+77	1200	---	1220	560	802	---	1074	---	2030	*185*
	SUBTOTAL										
	TOTAL	3767.8	2445	2366	1396	2729	64	2274	485	3176	*629*

1

LOCATION No.	STATION LIMITS	REMOVE AC DIKE TYPE A	CONCRETE BARRIER TYPE 60GC	PAVING ASPHALT (BINDER-PAVEMENT REINFORCING FABRIC)	MINOR CONCRETE STRUCTURE MISCELLANEOUS CONSTRUCTION	*METAL BEAM GUARD RAILING (WOOD POST)*
		LF	LF	TON	CY	*LF*
2	AV 35+97 TO 46.97	1165	~~1010~~ *920*	9.24	21	*90*
3	S1 387+89 TO 388+83 WB 39+17 TO 49+90	---	---	4.76	19.3	
4	HK1 50+00 TO 69+39 HK2 69+28 TO 82+77	---	580	---	---	*100*
	SUBTOTAL					
	TOTAL	1165	~~1590~~ *1500*	14	40.3	*190*

1 1

LOCATION No.	STATION LIMITS	ROADWAY EXCAVATION AERIALLY DEPOSITED LEAD (TYPE Z-2)
		CY
2	S1 355+13.57 TO 357+50 AV 37+48.52 TO 46+57.41	1136.98
3	S1 387+88.92 TO 388+50 WB 39+00 TO 49+90.84	262.33
4	S1 469+29 TO 472+50 HK2 72+55 TO 81+73.61 HK1 50+00 TO 53+69.29	375.15
	TOTAL	1774.46

1 **REVISED PER ADDENDUM No.** 1 **DATED** JANUARY 13, 2010

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
DANIEL MULUGETA | ANH LE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: TUNG LY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SM	280	R20.3/R27.3	77	118

REGISTERED CIVIL ENGINEER 11-05-09 DATE

11-16-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER T. Ly No. 52534 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION

LOCATION No.	SHEET No.	STATION LIMITS	DETAIL NO	PAINT TRAFFIC STRIPE (2-COAT)	THERMOPLASTIC									PAVEMENT MARKER	
					TRAFFIC STRIPE						PAVEMENT MARKING			REFLECTIVE	
				27B	8	38, 38B	36A	25A	27B	9	WORD	6'' WHITE	12'' WHITE	38, 38B	25A
			LENGTH	4'' WHITE	4'' WHITE (BROKEN 17-7)	8'' WHITE		4'' YELLOW	4'' WHITE	4'' WHITE (BROKEN 36-12	CAR POOL LANE	DIAMOND SYMBOL	LIMIT LINE	TYPE G	TYPE H
			FT	LF	LF	LF		LF		LF	SQFT			EA	
2	PD-1 & 2	AV 35+97 TO 46+97.6		---	310	120	330	410	1100	---	130	22	24	14	17
3	PD-2 & 3	S1 387+89 TO 388+83 WB 39+17 TO 49+90		---	646	---	404	458	1342	---	64	22	24	18	20
4	PD-7 & 8	HK1 50+00 TO 69+39 HK2 69+28 TO 82+77		---	275	---	395	908	1542	516		---	24	19	78
		SUBTOTAL				120	1129	1776	3984		194	44	72		
		TOTAL			1231	1249		5760		516	310			51	115

REMOVE TRAFFIC STRIPE, PAVEMENT MARKING AND PAVEMENT MARKER

LOCATION No.	STATION LIMITS	DETAIL NO	THERMOPLASTIC				PAVEMENT MARKER
			TRAFFIC STRIPE			PAVEMENT MARKING	
			25A	8, 27B	36A	TYPE V ARROW	25A, 36A
		LENGTH	4''YELLOW	4''WHITE	8''WHITE		G, H
		FT	LF			SQFT	EA
2	AV 35+97 TO 46+97.6		470	1320	450	66	27
3	S1 387+89 TO 388+83 WB 39+17 TO 49+90		653	1258	296	---	39
4	HK1 50+00 TO 69+39 HK2 69+28 TO 82+77		930	1550	---	---	40
	SUBTOTAL			3728	746		
	TOTAL		2053	4474		66	106

TEMPORARY PAVEMENT DELINEATION

LOCATION No.	STATION LIMITS	PAINT TRAFFIC STRIPE (1-COAT)			PAVEMENT MARKER
		8, 27B	25A	36A, 38	25A, 36A
		4'' WHITE	4'' YELLOW	8'' WHITE	TYPE G, H
		LF			EA
2	AV 35+97 TO 46+97.6	2100	600	---	30
3	S1 387+89 TO 388+83 WB 39+17 TO 49+90	1878	1225	200	33
4	HK1 50+00 TO 69+39 HK2 69+28 TO 82+77	1817	908	600	39
	SUBTOTAL	5795	2733	800	
	TOTAL	9328			102

TEMPORARY RAILING (TYPE K) & TEMPORARY CRASH CUSHION

LOCATION No.	STATION LIMITS	RAILING (TYPE K)	CRASH CUSHION ABSORB 350 MODULE	TEMPORARY CRASH CUSHION MODULE (ARRAY TU14)	CHANNELIZER (SURFACE MOUNTED)
		LF	EA		
2	AV 35+97 TO 46+97.6	2500	2	14	6
3	S1 387+89 TO 388+83 WB 39+17 TO 49+90	3038	4	14	9
4	HK1 50+00 TO 69+39 HK2 69+28 TO 82+77	~~1480~~ 1642	2	---	6
	TOTAL	~~7018~~ 7180	8	28	21

1

1 REVISED PER ADDENDUM No. 1 DATED JANUARY 13, 2010

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

FUNCTIONAL SUPERVISOR: TUNG LY
CALCULATED-DESIGNED BY: DANIEL MULUGETA
CHECKED BY: ANH LE
REVISED BY
DATE REVISED

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LAST REVISION 11-16-09
DATE PLOTTED => 11-JAN-2010
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