Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	2	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

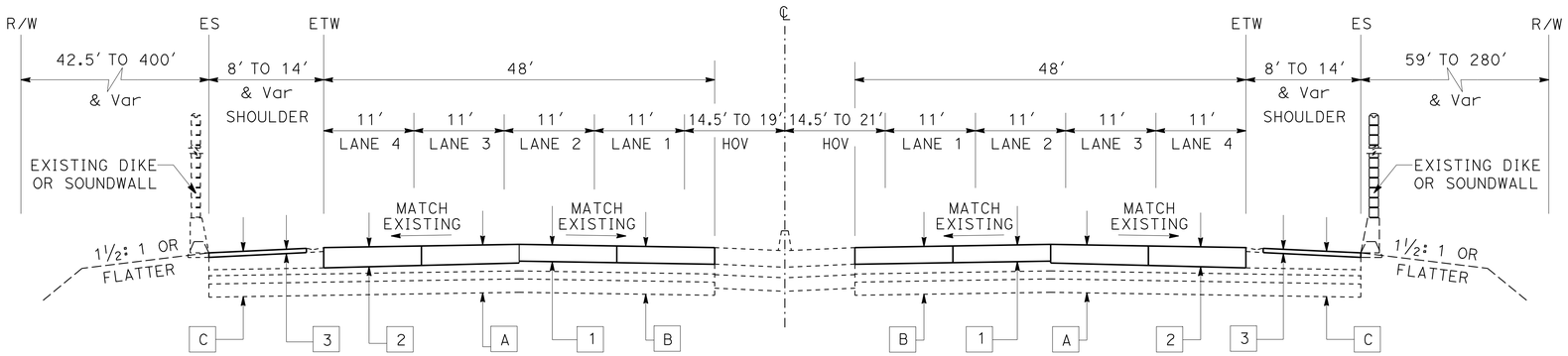
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
5. EXISTING DRAINAGE INLETS HAVE NOT BEEN PLOTTED ON THESE PLANS.
6. DO NOT GRIND BRIDGES.
7. EXACT LOCATIONS FOR INDIVIDUAL SLAB REPLACEMENT (RSC) WILL BE DETERMINED BY THE ENGINEER.
8. MAINLINE EXISTING PROFILE.



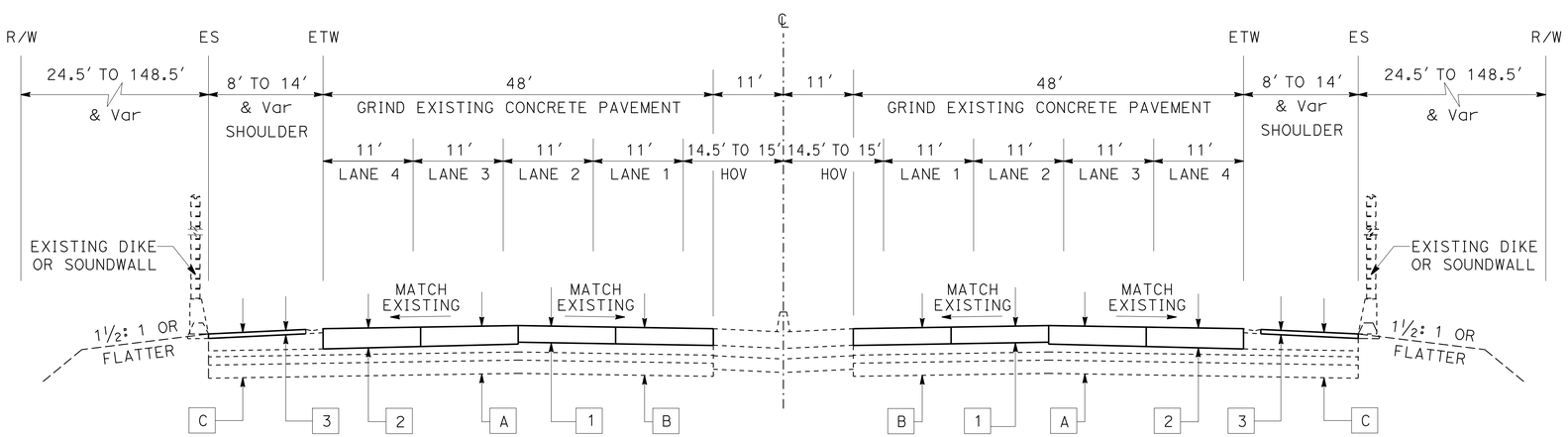
ROUTE 405

SOUTHBOUND

Sta 2362+00 TO Sta 2484+65
Sta 2494+00 TO Sta 2497+60

NORTHBOUND

Sta 2362+00 TO Sta 2475+00
Sta 2481+75 TO Sta 2490+75



SOUTHBOUND NORTHBOUND

ROUTE 405

Sta 2092+00 TO Sta 2362+00

PROPOSED STRUCTURAL SECTIONS

1 — 0.67′ INDIVIDUAL SLAB REPLACEMENT (RSC) AT VARIOUS LOCATIONS

2 — 0.75′ INDIVIDUAL SLAB REPLACEMENT (RSC) AT VARIOUS LOCATIONS

3 — 0.20′ RUBBERIZED HOT MIX ASPHALT, SUPERPAVE (GAP GRADED)
0.20′ COLD PLANE AC PAVEMENT

EXISTING STRUCTURAL SECTIONS

A — 0.75′ PORTLAND CEMENT CONCRETE
0.33′ CEMENT TREATED BASE
0.25′ AGGREGATE BASE
0.67′ AGGREGATE SUBBASE

B — 0.67′ PORTLAND CEMENT CONCRETE
0.33′ CEMENT TREATED BASE
0.33′ AGGREGATE BASE
0.67′ AGGREGATE SUBBASE

C — 0.35′ ASPHALT CONCRETE (TYPE B)
0.60′ AGGREGATE BASE
1.16′ & Var AGGREGATE SUBBASE

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	4	179

REGISTERED CIVIL ENGINEER DATE 5-30-12

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.

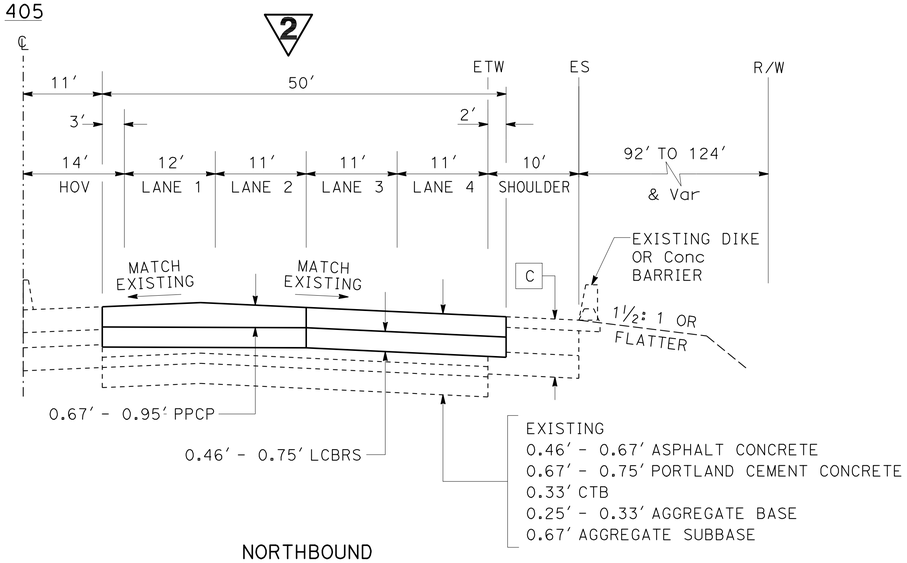
NOTE:

EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC.

ABBREVIATION:

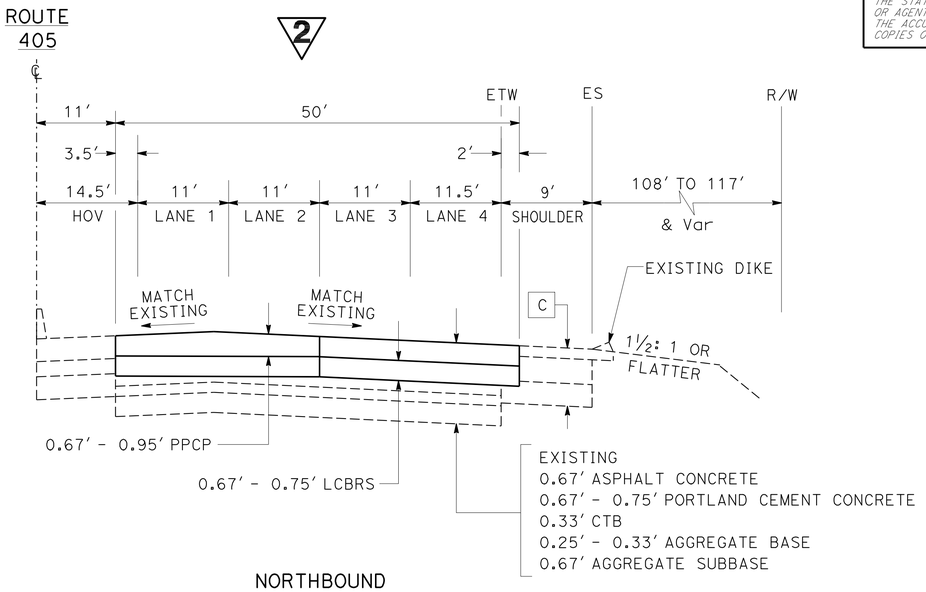
2 PPCP - PRECAST PRESTRESSED CONCRETE PAVEMENT
LCBRS - LEAN CONCRETE BASE RAPID SETTING

ROUTE 405

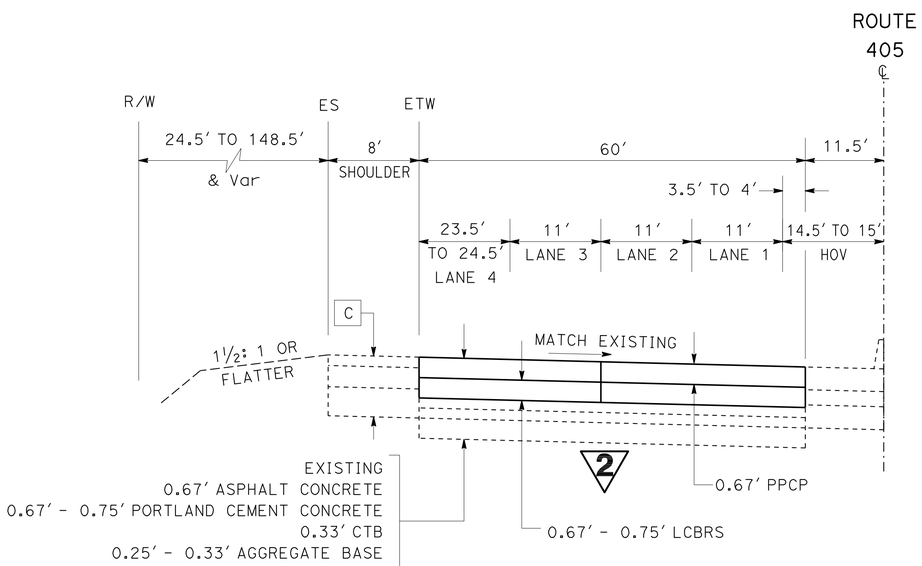


NORTHBOUND
Sta 2289+46.20 TO Sta 2292+48.51

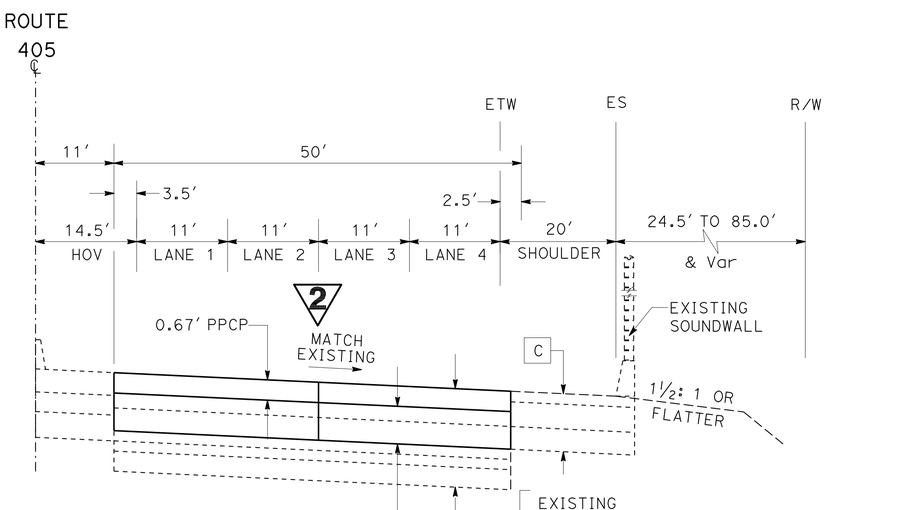
ROUTE 405



NORTHBOUND
Sta 2294+48.50 TO Sta 2297+48.51



SOUTHBOUND
Sta 2176+08.04 TO Sta 2179+09.89



NORTHBOUND
Sta 2174+93.48 TO Sta 2178+49.44

TYPICAL CROSS SECTIONS
NO SCALE

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

X-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	5	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

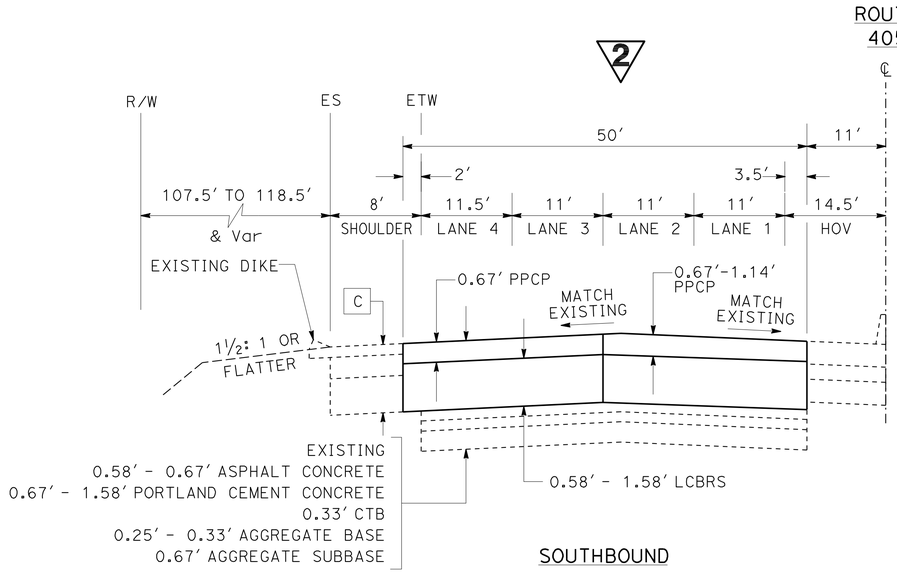
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

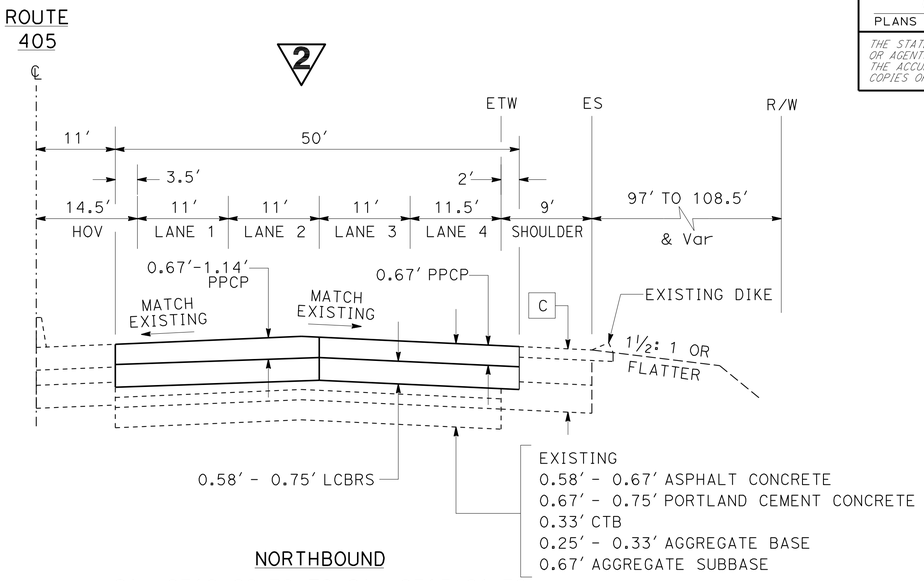
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

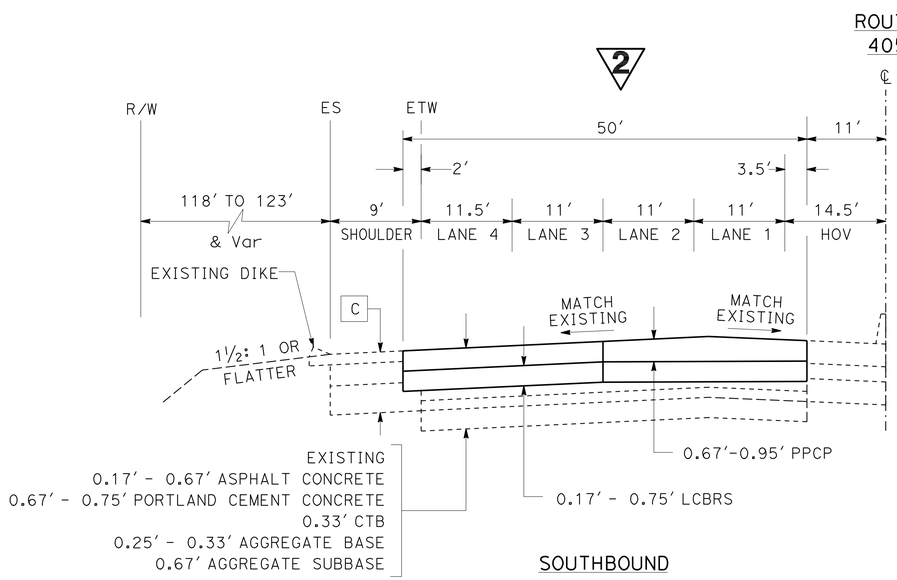
EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC.



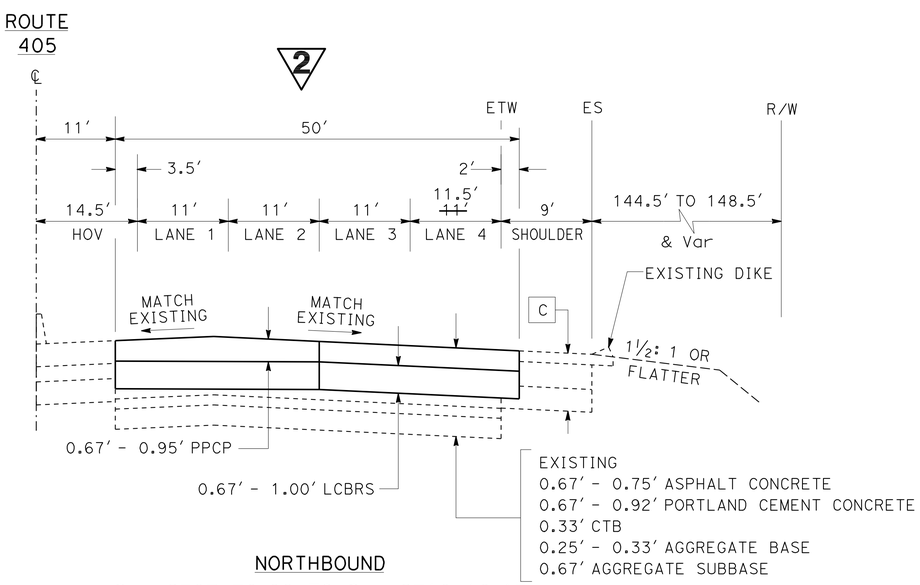
SOUTHBOUND
Sta 2312+27.77 TO Sta 2315+21.77



NORTHBOUND
Sta 2312+28.78 TO Sta 2315+21.79



SOUTHBOUND
Sta 2307+30.09 TO Sta 2310+10.10



NORTHBOUND
Sta 2307+30.08 TO Sta 2310+10.13

TYPICAL CROSS SECTIONS
NO SCALE

X-4

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	6	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

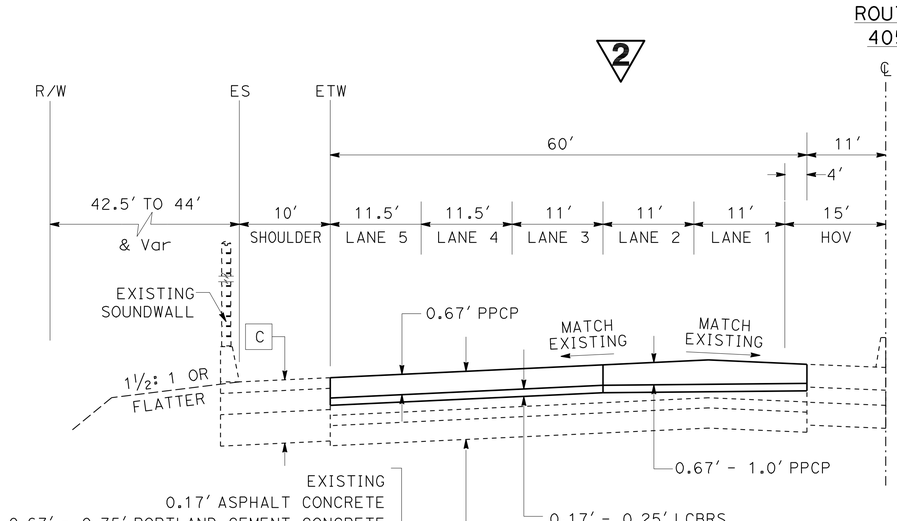
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.

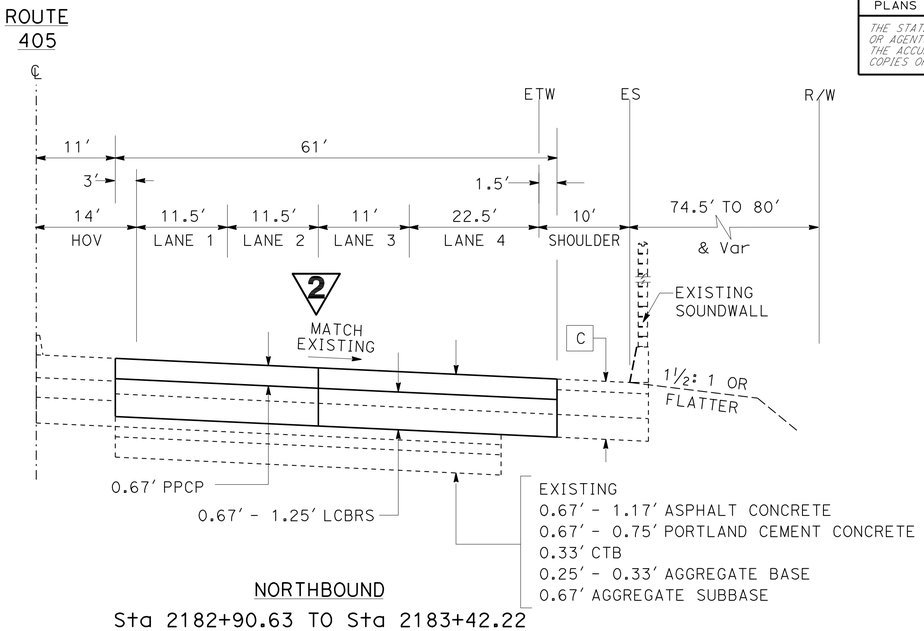
NOTE:

EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC.



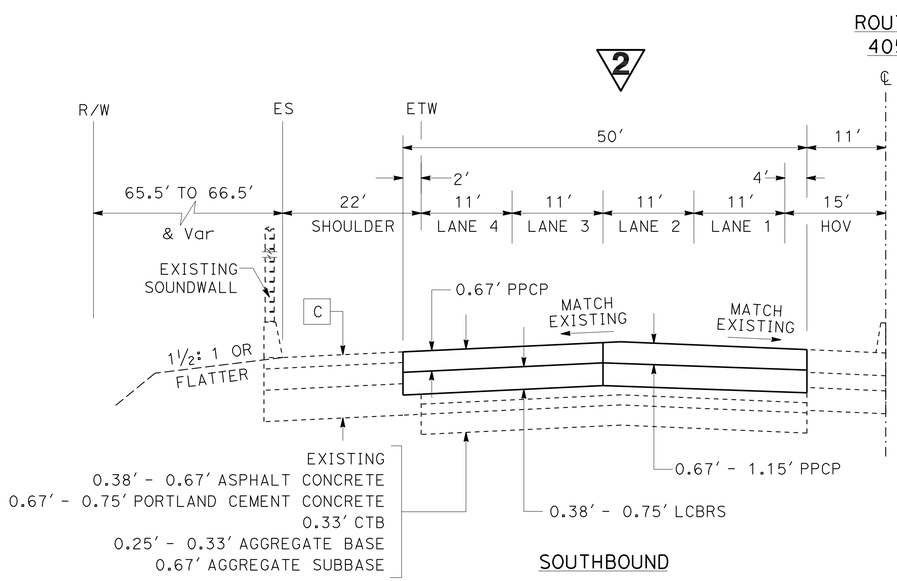
SOUTHBOUND

Sta 2412+10.62 TO Sta 2414+83.10



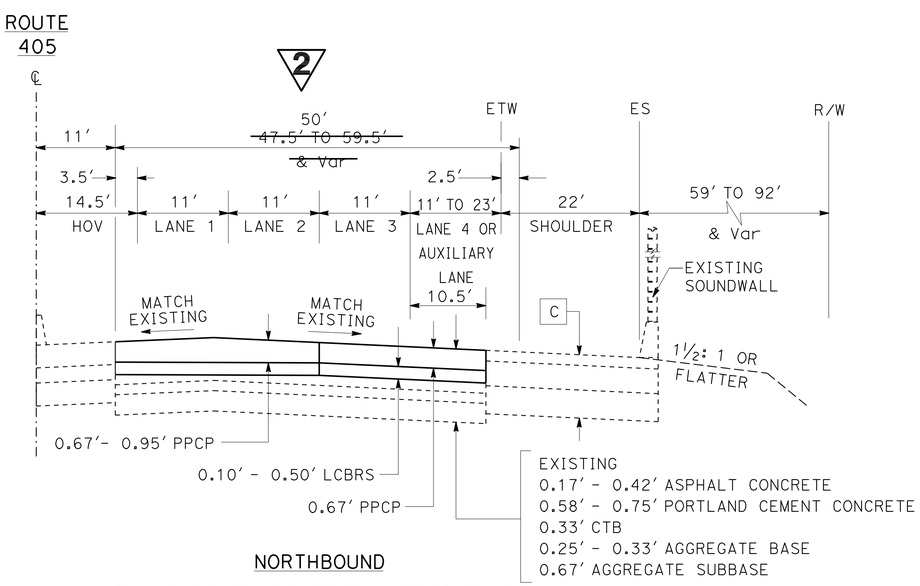
NORTHBOUND

Sta 2182+90.63 TO Sta 2183+42.22



SOUTHBOUND

Sta 2332+84.92 TO Sta 2335+48.92



NORTHBOUND

Sta 2373+01.95 TO Sta 2378+05.94

TYPICAL CROSS SECTIONS

NO SCALE

X-5

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	7	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

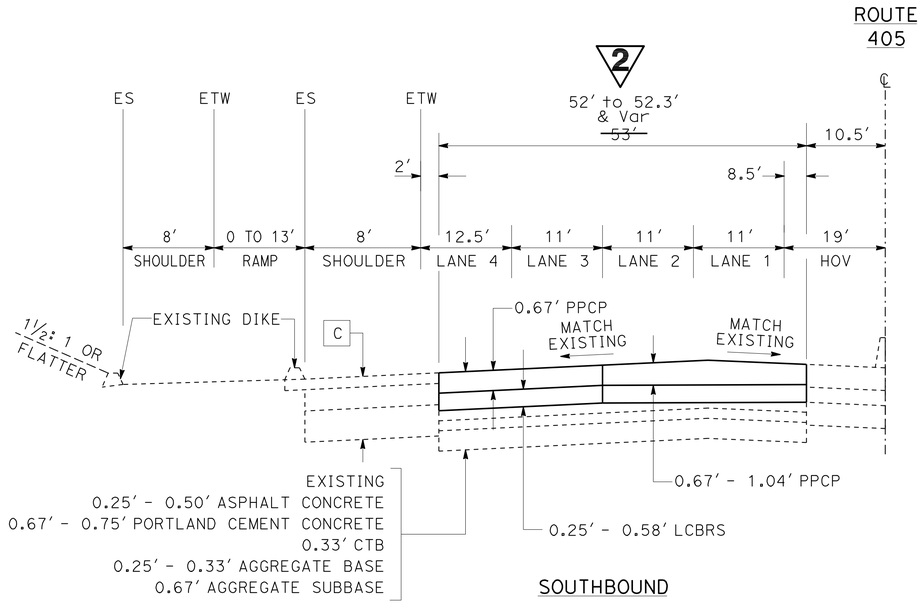
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

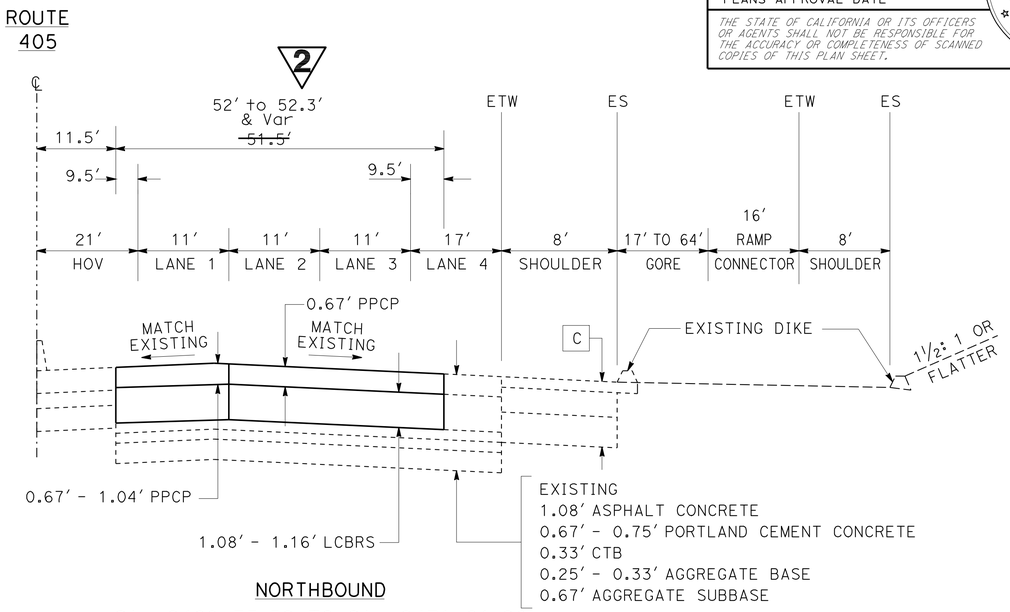
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

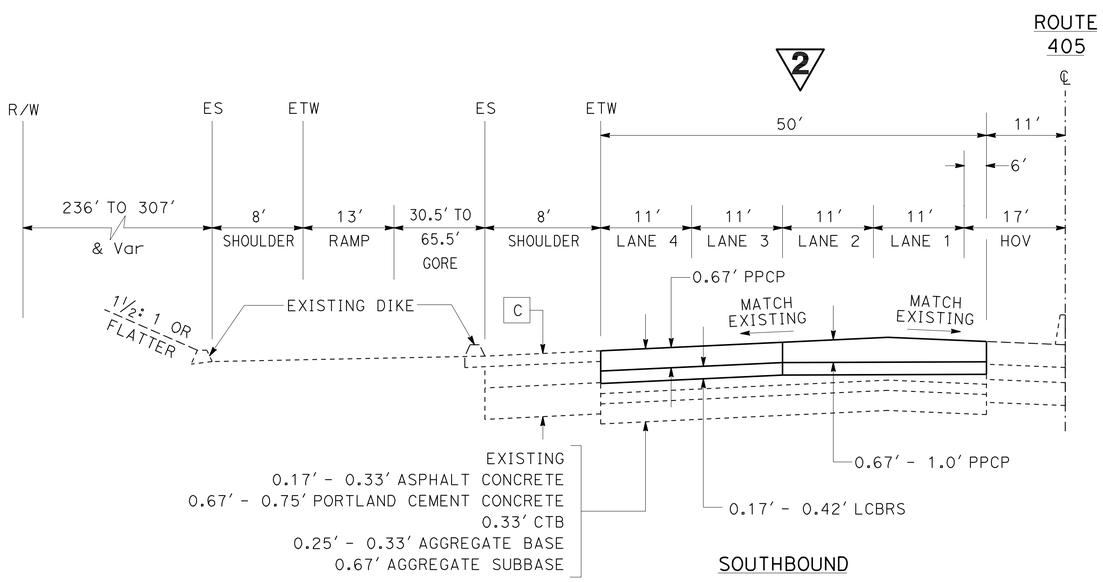
EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC.



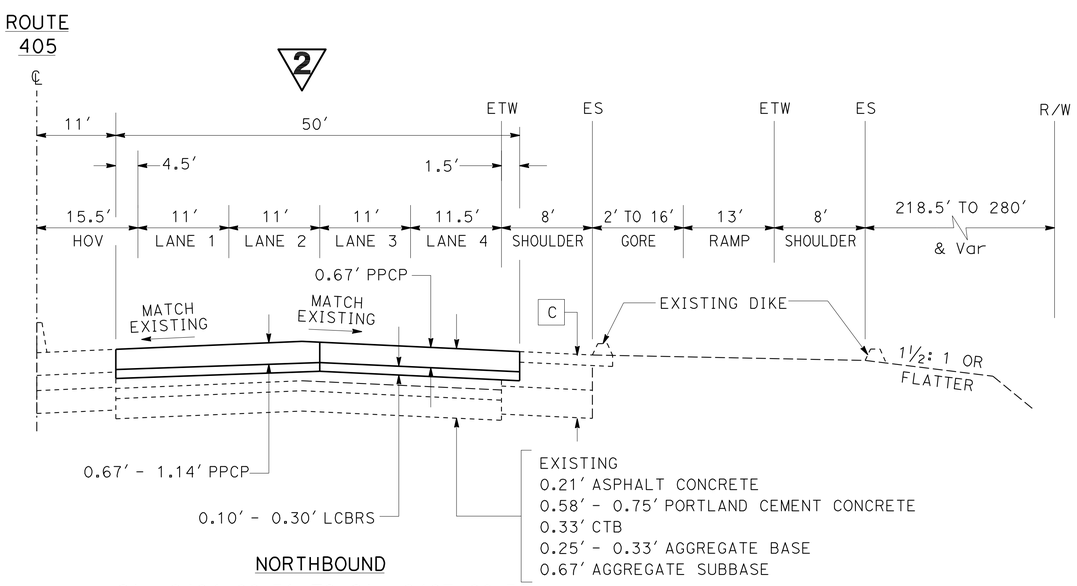
SOUTHBOUND
Sta 2469+73.06 TO Sta 2471+93.36



NORTHBOUND
Sta 2469+75.52 TO Sta 2471+91.20



SOUTHBOUND
Sta 2464+88.51 TO Sta 2467+60.52



NORTHBOUND
Sta 2464+88.51 TO Sta 2467+60.51

TYPICAL CROSS SECTIONS
NO SCALE

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

X-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	8	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

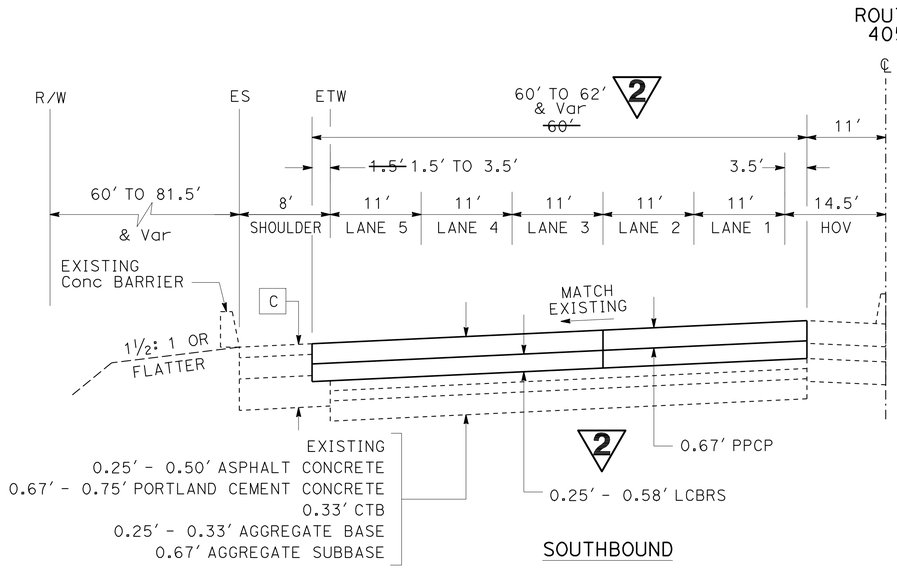
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.

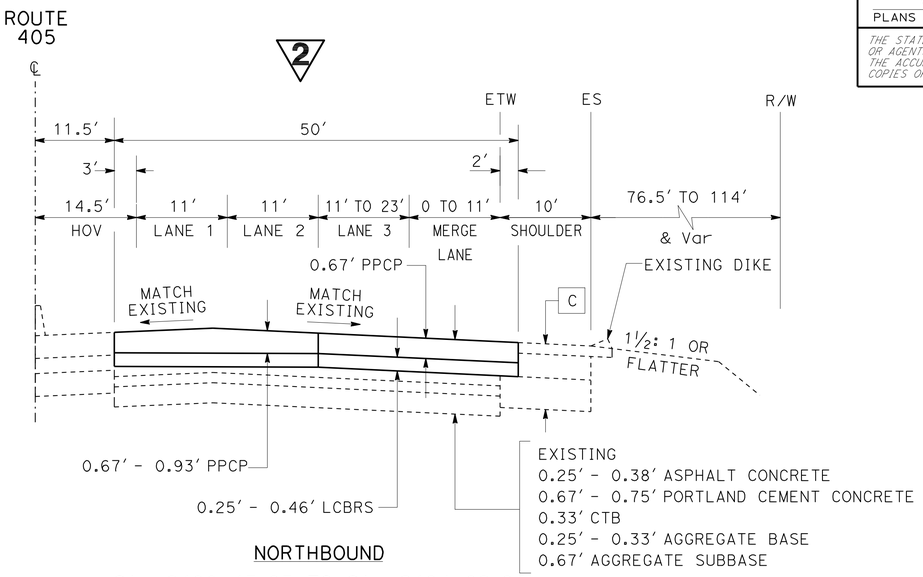
NOTE:

EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC.



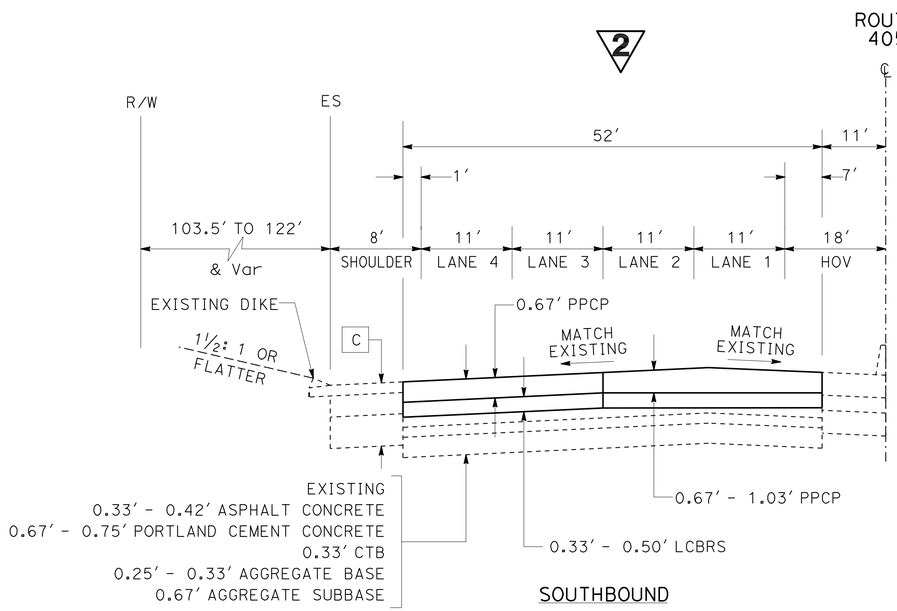
SOUTHBOUND

Sta 2490+25.90 TO Sta 2494+01.22



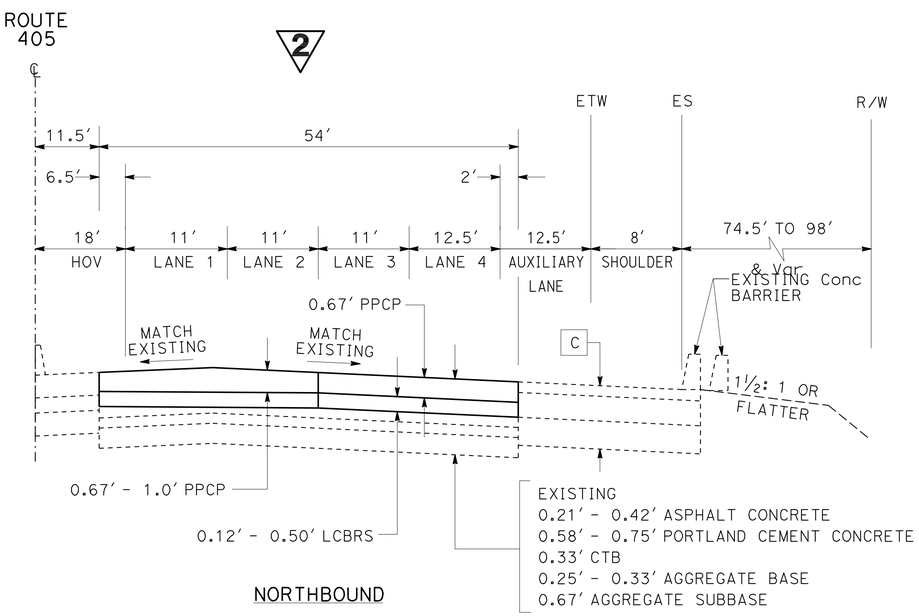
NORTHBOUND

Sta 2490+43.85 TO Sta 2494+02.64



SOUTHBOUND

Sta 2475+26.09 TO Sta 2479+32.08



NORTHBOUND

Sta 2475+27.30 TO Sta 2478+5.30

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

TYPICAL CROSS SECTIONS

NO SCALE

X-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	9	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

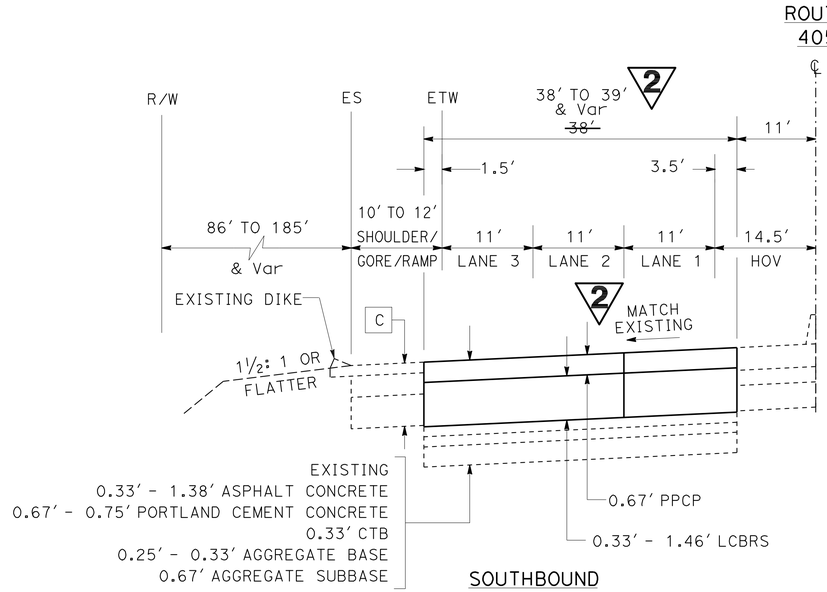
7-30-12
PLANS APPROVAL DATE

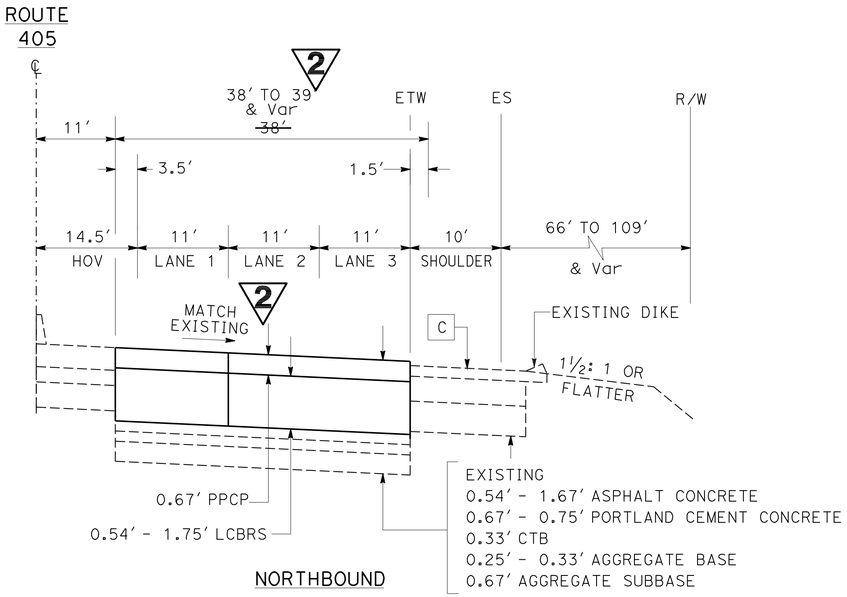
REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

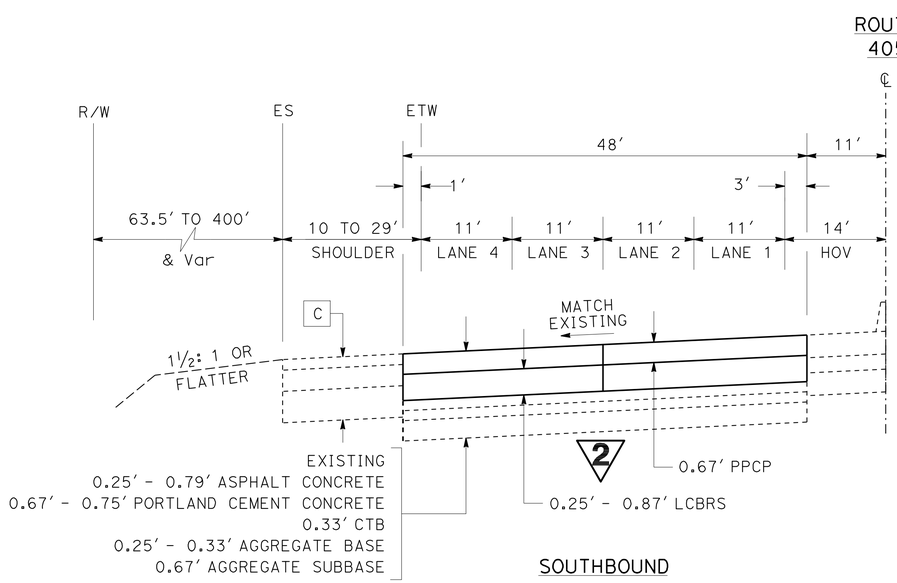
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

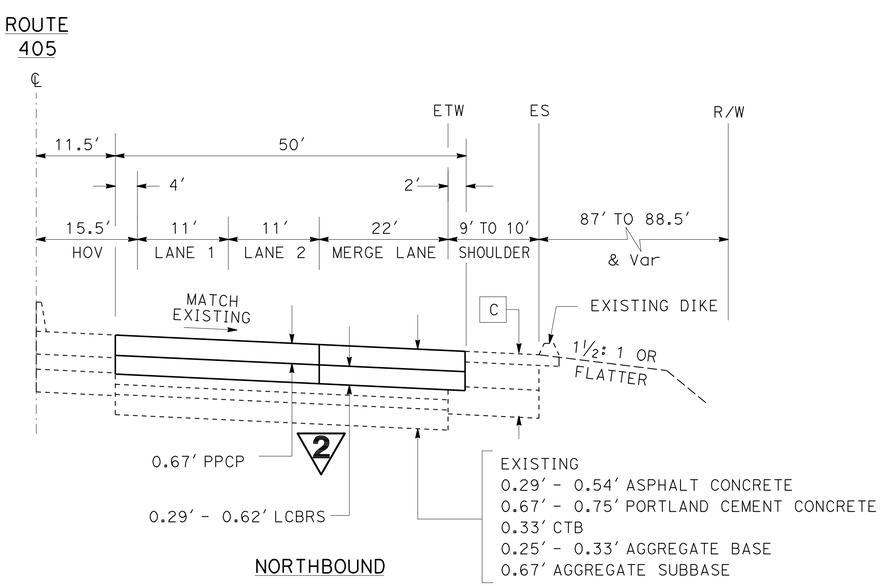
NOTE:

EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC









TYPICAL CROSS SECTIONS

NO SCALE

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

X-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	10	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

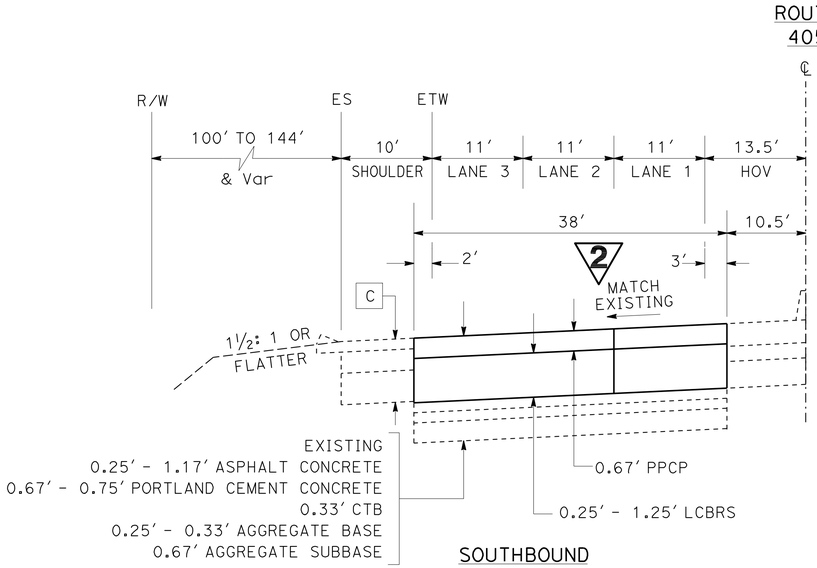
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.

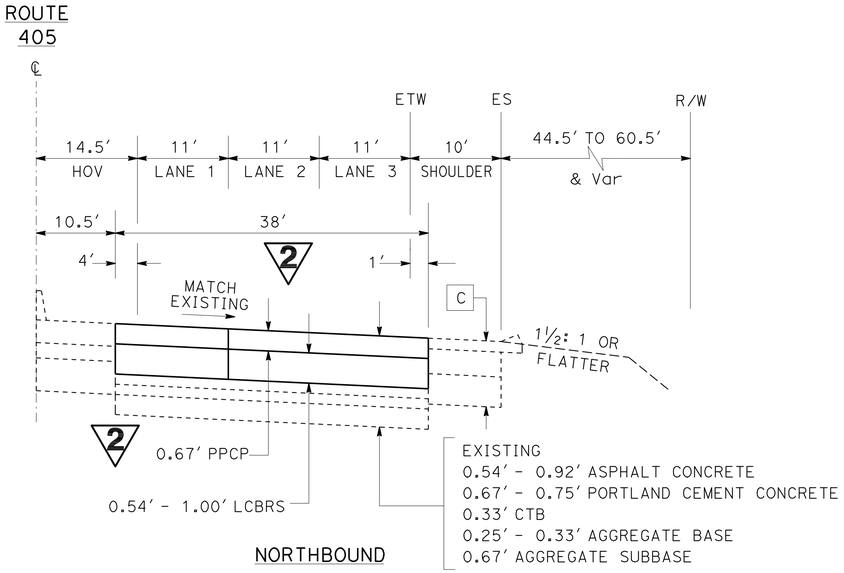
NOTE:

EXISTING AC PAVEMENT INCLUDES PAVEMENT REINFORCING FABRIC.



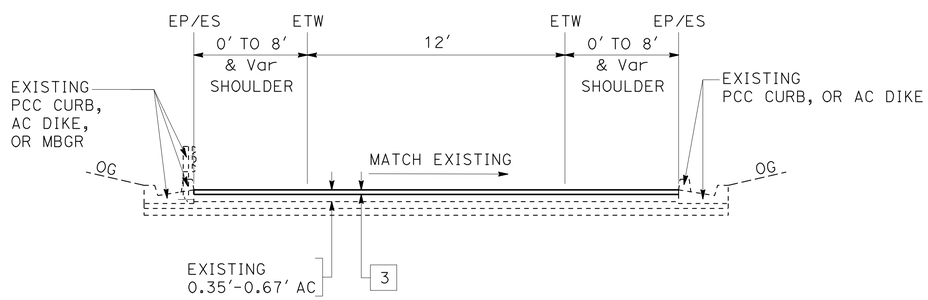
SOUTHBOUND

Sta 2523+17.38 TO Sta 2530+37.76



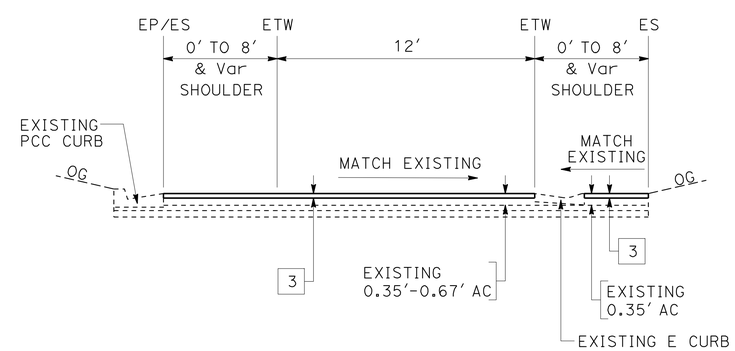
NORTHBOUND

Sta 2523+23.17 TO Sta 2530+32.77



RAMPS

SB ON-RAMP FROM VICTORY Blvd
NB ON-RAMP FROM EB DEVONSHIRE St
NB ON-RAMP FROM WB DEVONSHIRE St
SB ON-RAMP FROM EB DEVONSHIRE St
SB ON-RAMP FROM WB DEVONSHIRE St
NB OFF-RAMP TO SAN FERNANDO MISSION Blvd



RAMP

NB ON-RAMP FROM EB DEVONSHIRE St

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

TYPICAL CROSS SECTIONS

NO SCALE

X-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	12	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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:

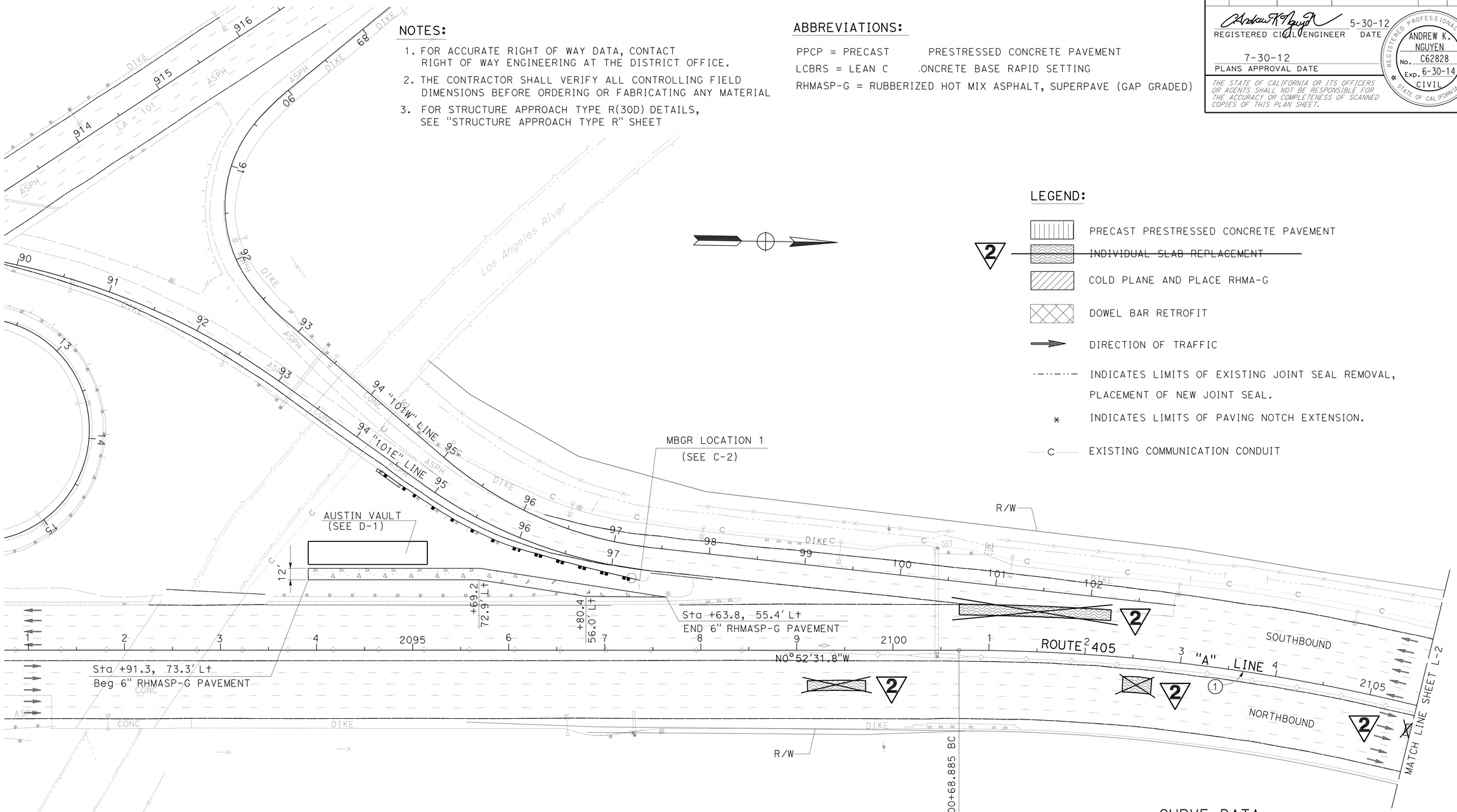
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL
3. FOR STRUCTURE APPROACH TYPE R(30D) DETAILS, SEE "STRUCTURE APPROACH TYPE R" SHEET

ABBREVIATIONS:

PPCP = PRECAST PRESTRESSED CONCRETE PAVEMENT
LCBRS = LEAN CONCRETE BASE RAPID SETTING
RHMASP-G = RUBBERIZED HOT MIX ASPHALT, SUPERPAVE (GAP GRADED)

LEGEND:

- PRECAST PRESTRESSED CONCRETE PAVEMENT
- ~~INDIVIDUAL SLAB REPLACEMENT~~
- COLD PLANE AND PLACE RHMA-G
- DOWEL BAR RETROFIT
- DIRECTION OF TRAFFIC
- INDICATES LIMITS OF EXISTING JOINT SEAL REMOVAL, PLACEMENT OF NEW JOINT SEAL.
- * INDICATES LIMITS OF PAVING NOTCH EXTENSION.
- C EXISTING COMMUNICATION CONDUIT



CURVE DATA

No.	R	Δ	T	L
1	2000.06'	27°43'00"	493.42'	967.52'

LAYOUT

SCALE: 1" = 50'

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	13	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

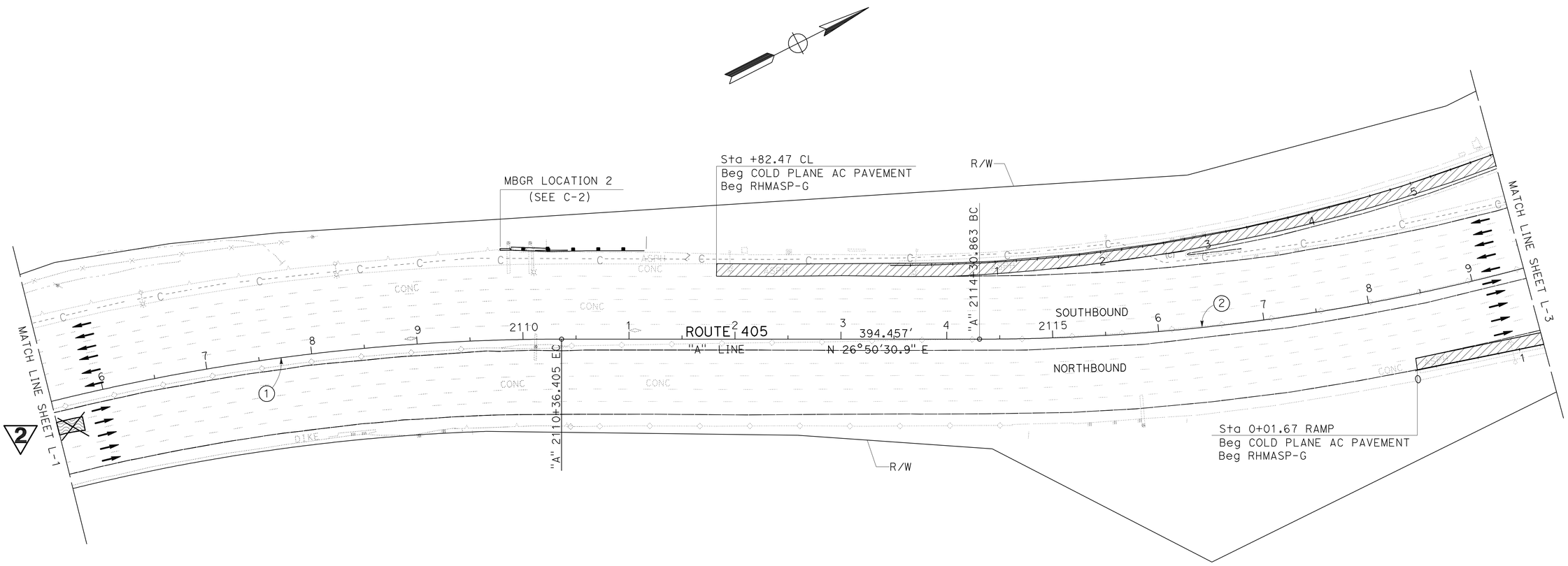
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

CURVE DATA

No.	R	Δ	T	L
1	2000.06′	27°43′00"	493.42′	967.52′
2	1999.91′	27°43′26"	493.52′	967.70′



2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

LAYOUT
SCALE: 1" = 50′

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	14	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

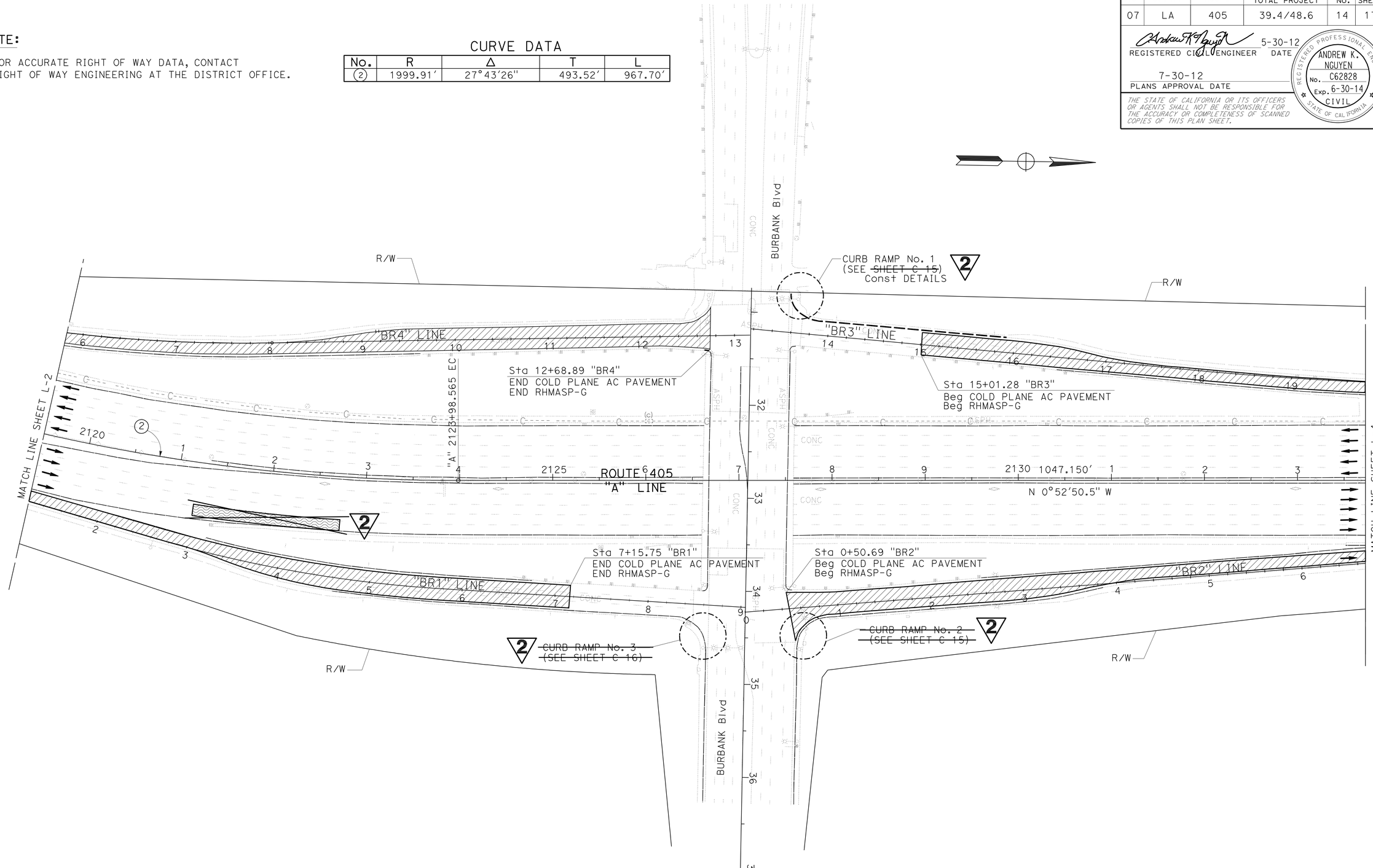
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

CURVE DATA

No.	R	Δ	T	L
2	1999.91′	27°43′26″	493.52′	967.70′



2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

LAYOUT
SCALE: 1" = 50′

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:45

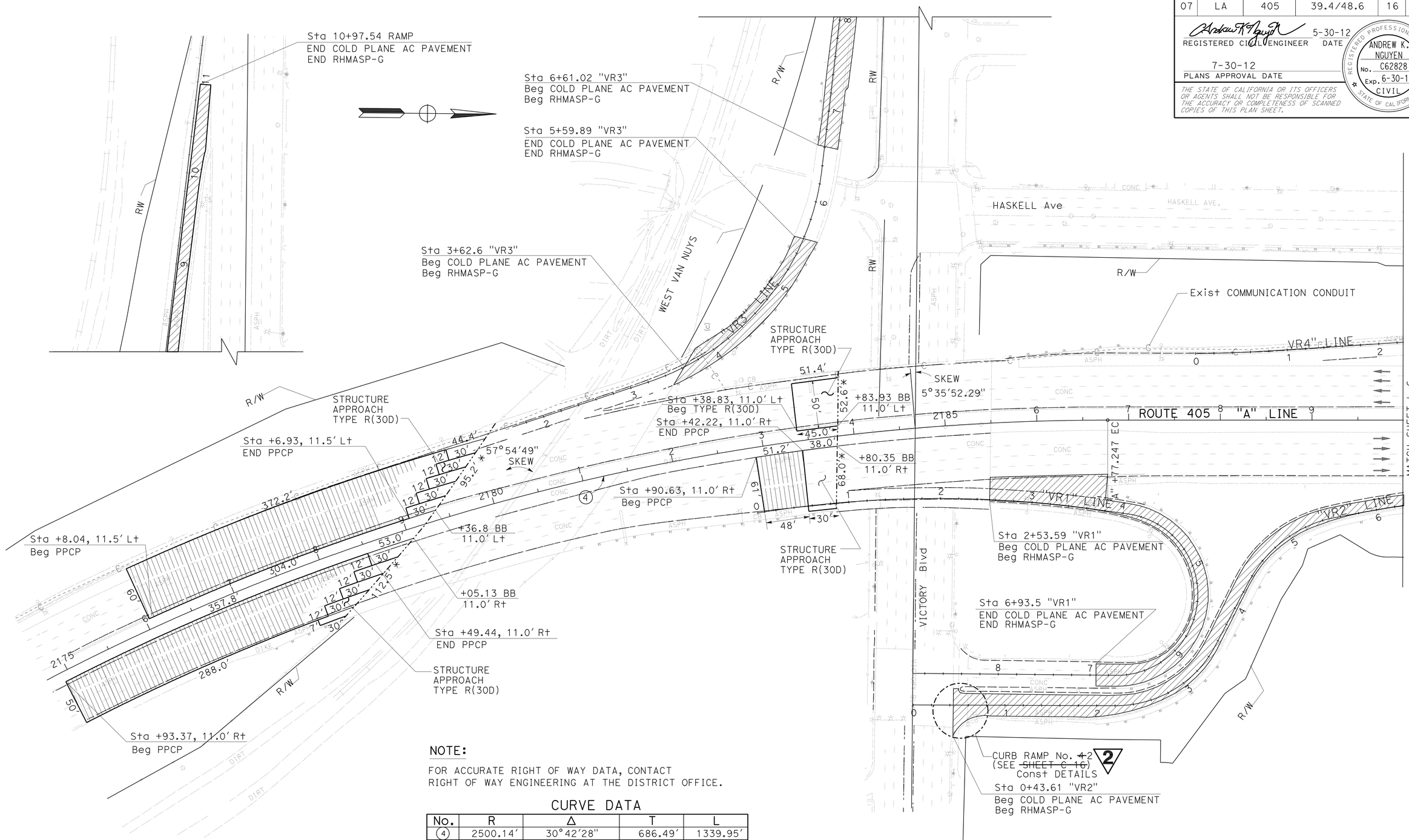
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	16	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.



NOTE:

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

CURVE DATA

No.	R	Δ	T	L
4	2500.14'	30°42'28"	686.49'	1339.95'

LAYOUT
SCALE: 1" = 50'

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY / DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	17	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

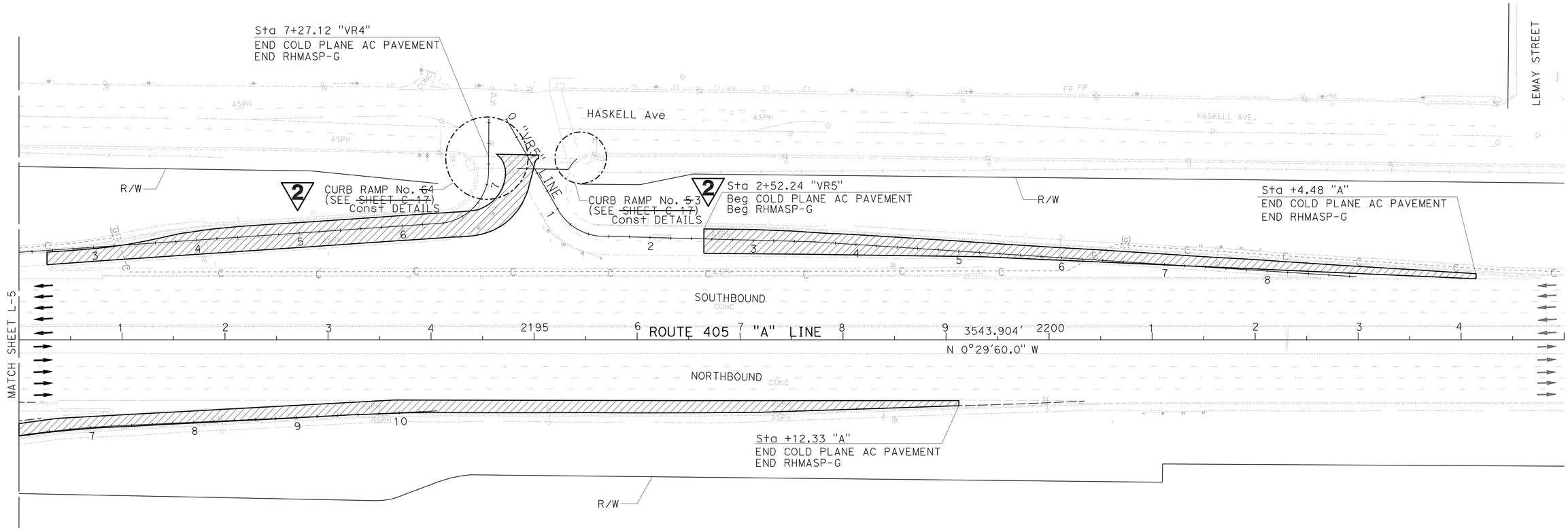
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

NOTE:

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



LAYOUT
SCALE: 1" = 50'

L-6

REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	18	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

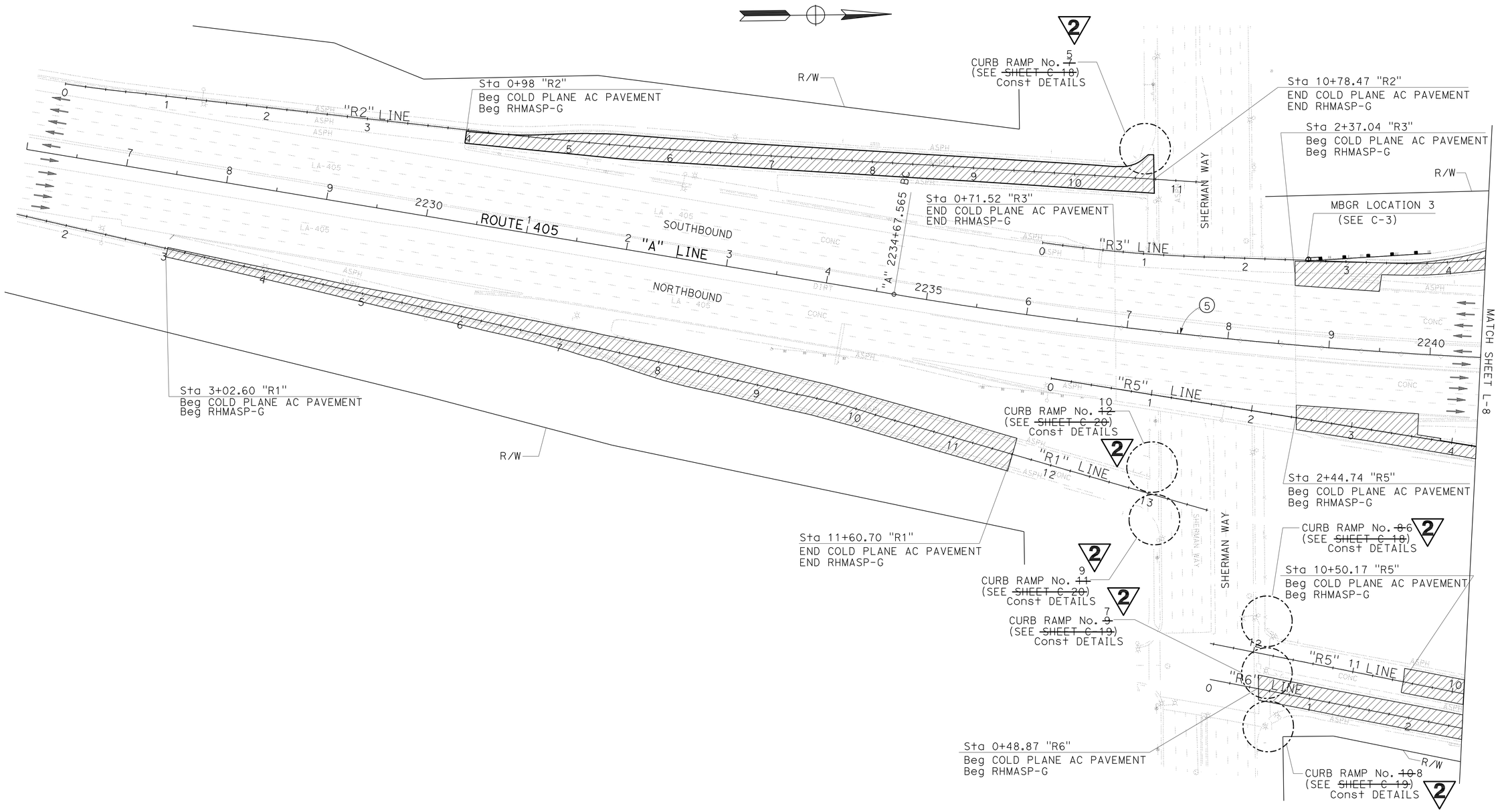
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

CURVE DATA

No.	R	Δ	T	L
5	5000.16′	9°29′01"	414.76′	827.63′



LAYOUT
SCALE: 1" = 50′

REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	21	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

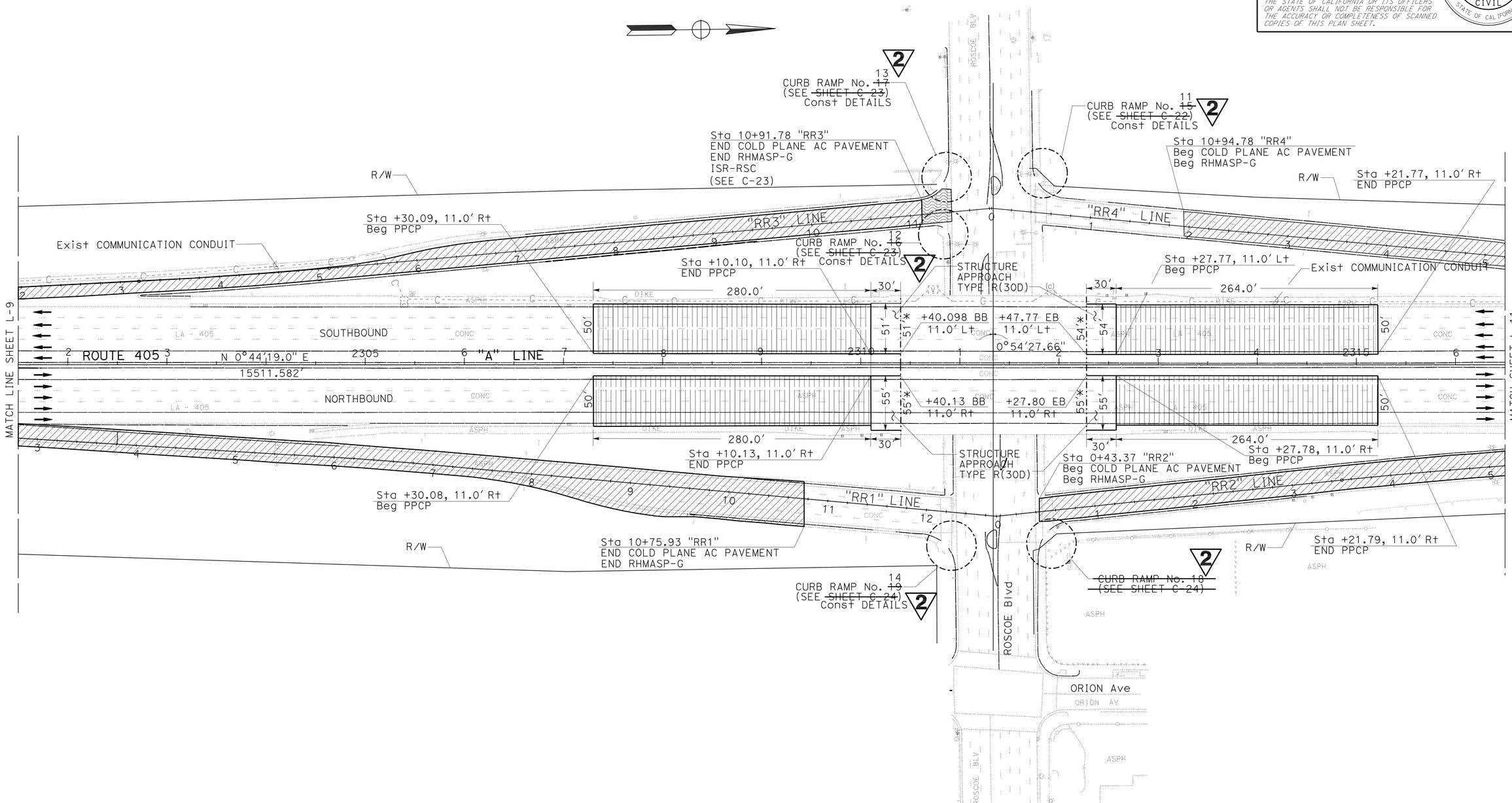
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

NOTE:

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



2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

LAYOUT
SCALE: 1" = 50'

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	24	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

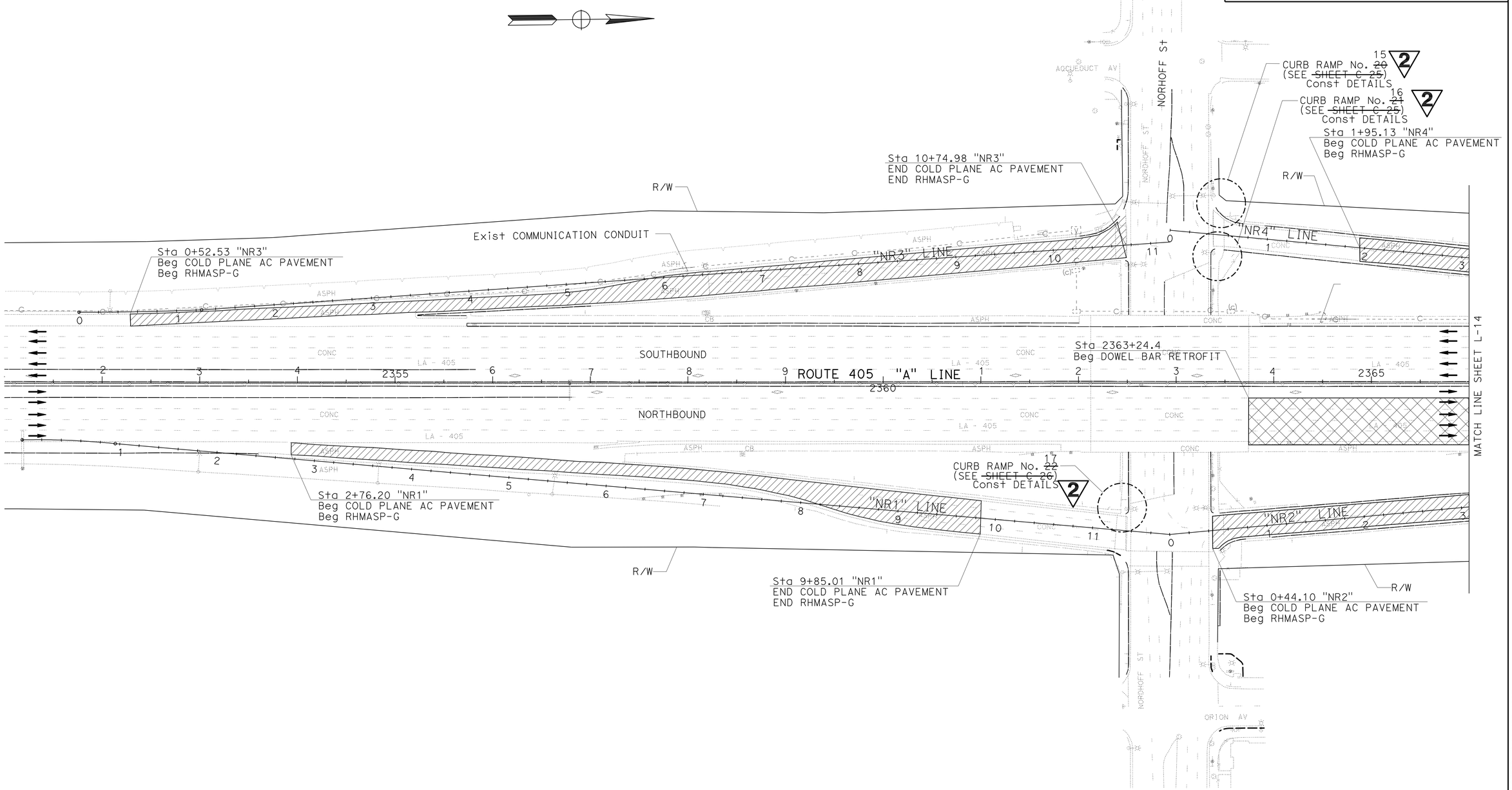
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

NOTE:

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



LAYOUT
SCALE: 1" = 50"

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

L-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	28	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

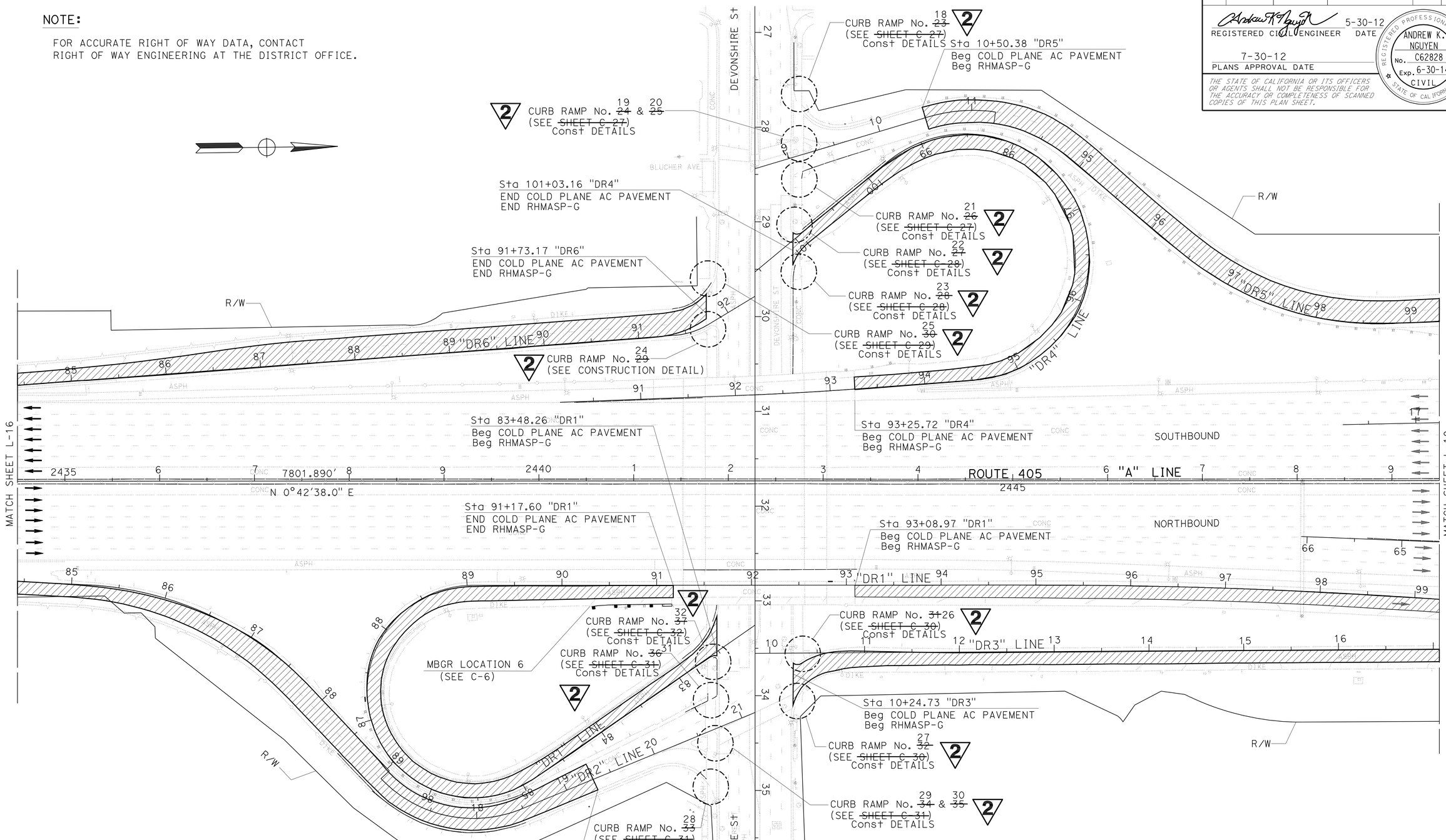
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

NOTE:

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



REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

LAYOUT
SCALE: 1" = 50"

L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	32	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

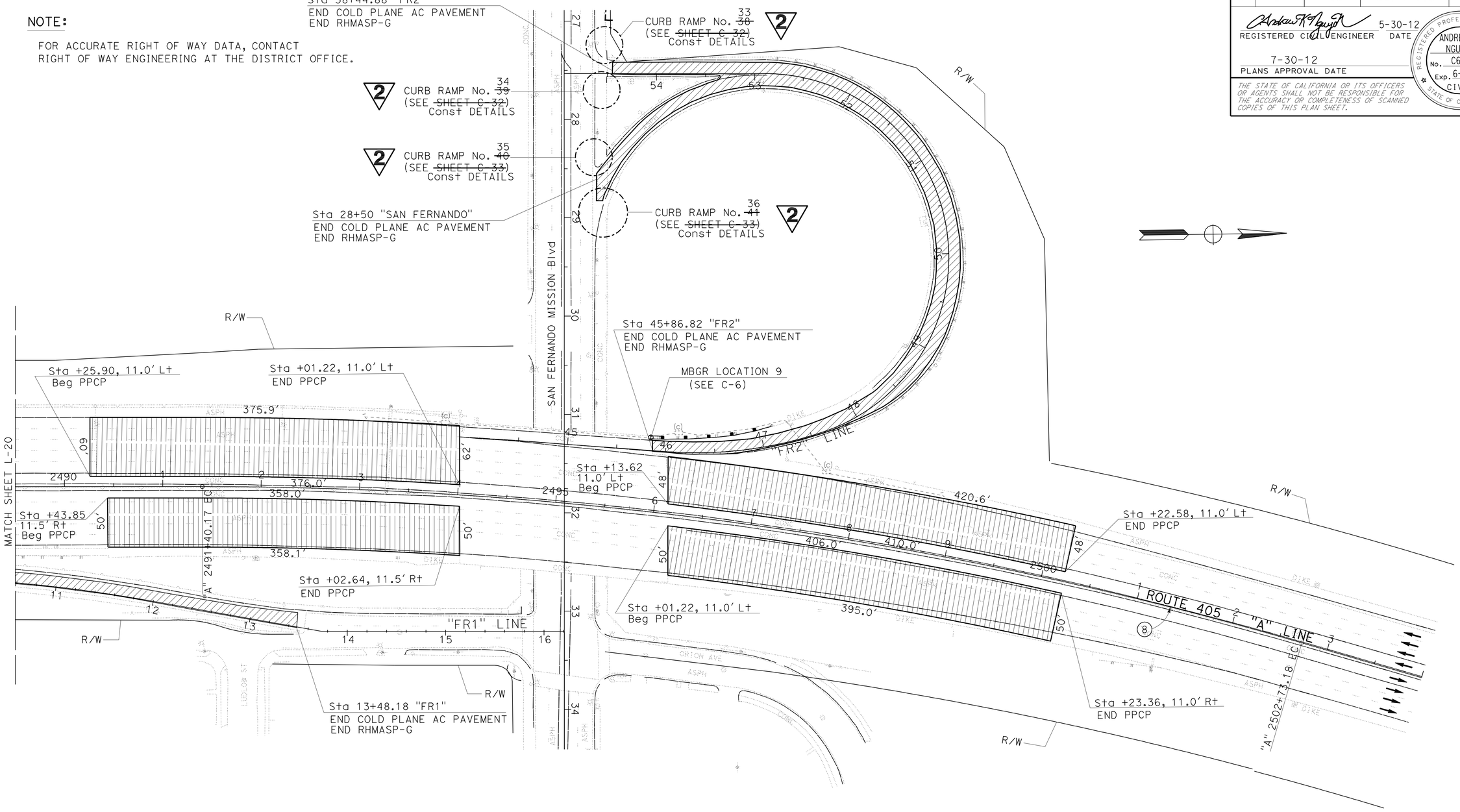
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

NOTE:

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



CURVE DATA

No.	R	Δ	T	L
8	3999.65'	16°13'50"	570.32'	1133.00'

LAYOUT
SCALE: 1" = 50"

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

L-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	33	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

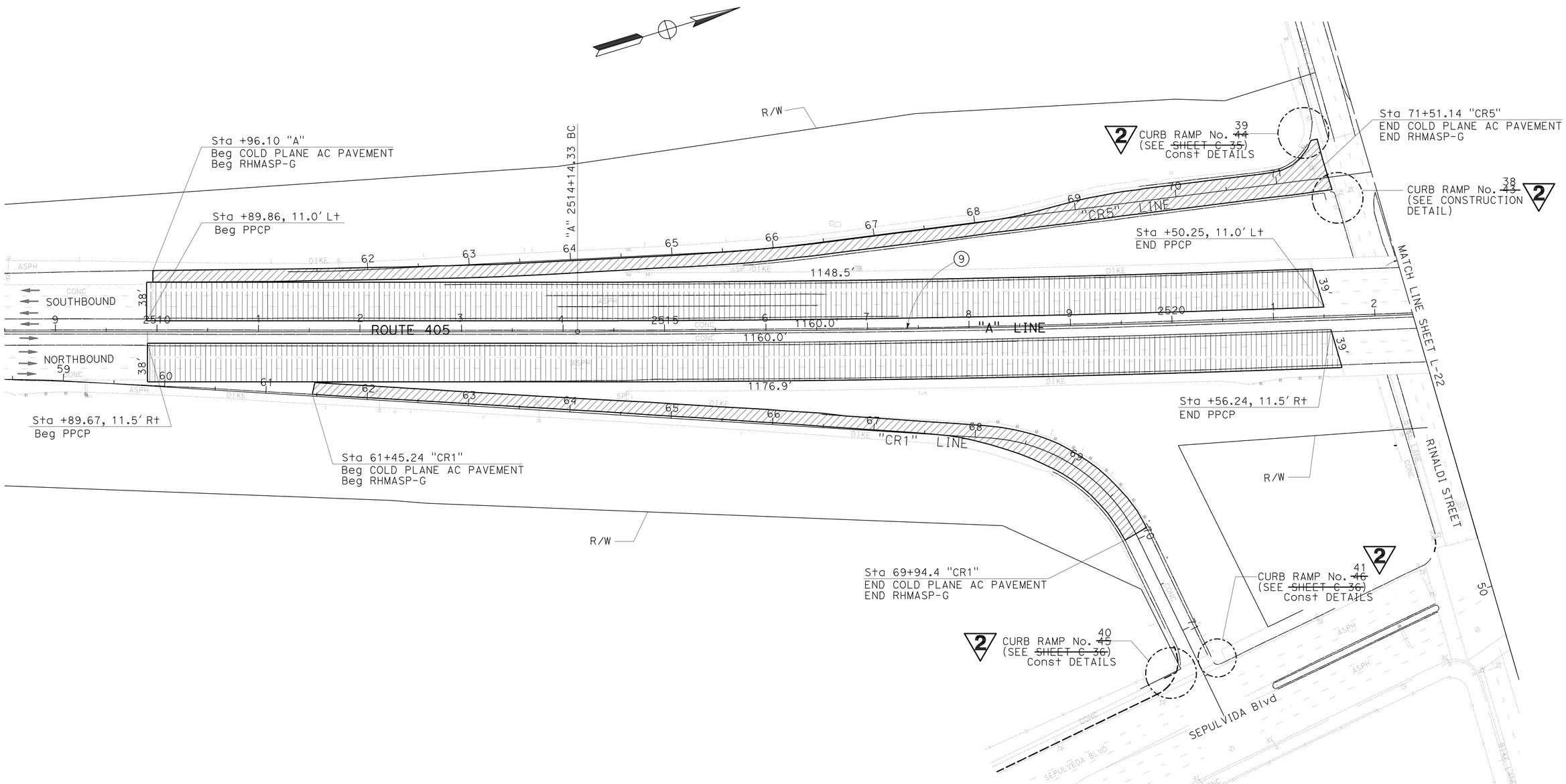
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

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

CURVE DATA

No.	R	Δ	T	L
9	20000.50′	6°0′40″	1050.15′	2098.37′



2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

LAYOUT
SCALE: 1" = 50"

L-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	34	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

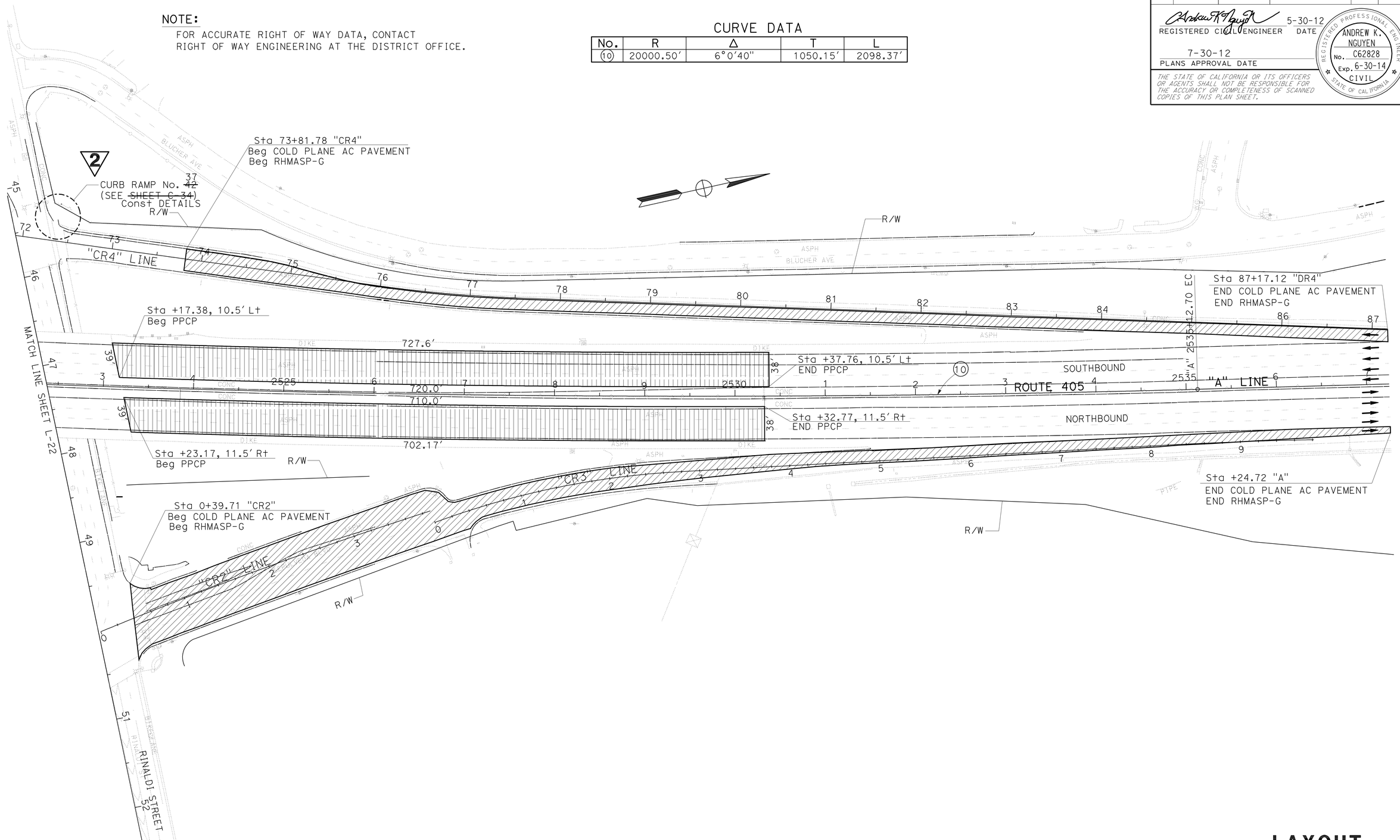
REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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.

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

CURVE DATA

No.	R	Δ	T	L
10	20000.50′	6°0′40"	1050.15′	2098.37′



2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

LAYOUT
SCALE: 1" = 50"

L-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:46

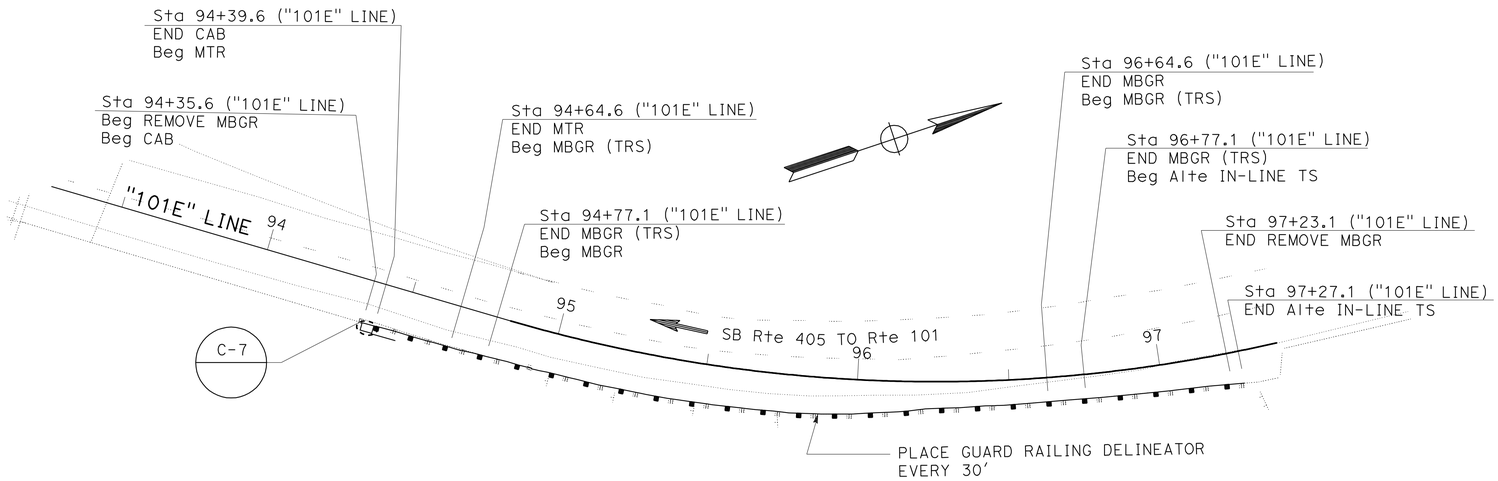
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	37	179

REGISTERED CIVIL ENGINEER 6/22/12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ESTHER M. KIM No. 48363 Exp. 6/30/14 CIVIL STATE OF CALIFORNIA

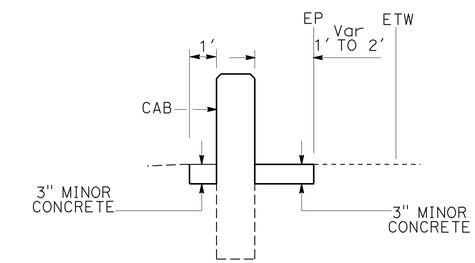
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



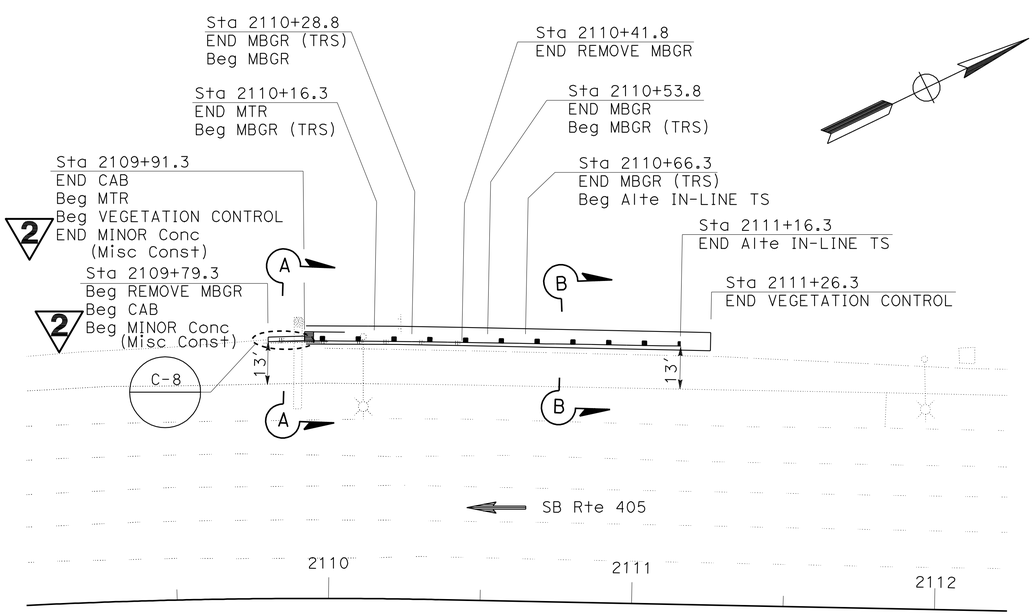
LOCATION 1

NOTES:

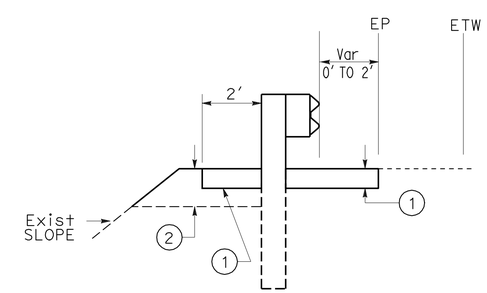
1. PLACE GUARD RAILING DELINEATOR AT THE BEGIN AND END OF MBGR AT EACH LOCATION.
2. R/W NOT SHOWN ON THESE PLANS.
3. HMA DIKE TRANSITION AND CONCRETE CURB TRANSITION, SEE SHEET C-1.



SECTION A-A



LOCATION 2



SECTION B-B

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

CONSTRUCTION DETAILS

NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY: RICHARD KHAW
CHECKED BY: ESTHER M. KIM
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	38	179

REGISTERED CIVIL ENGINEER 6-22-12 DATE

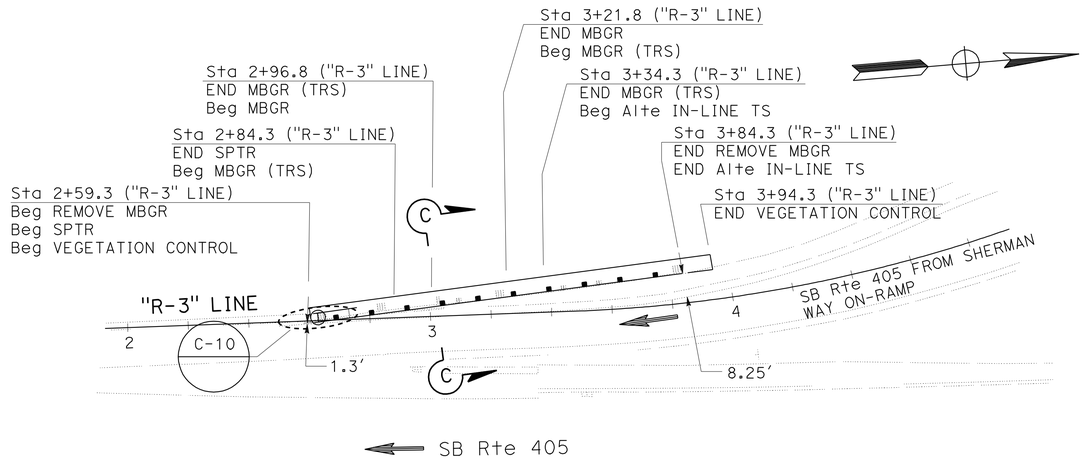
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ESTHER M. KIM No. 48363 Exp. 6/30/14 CIVIL STATE OF CALIFORNIA

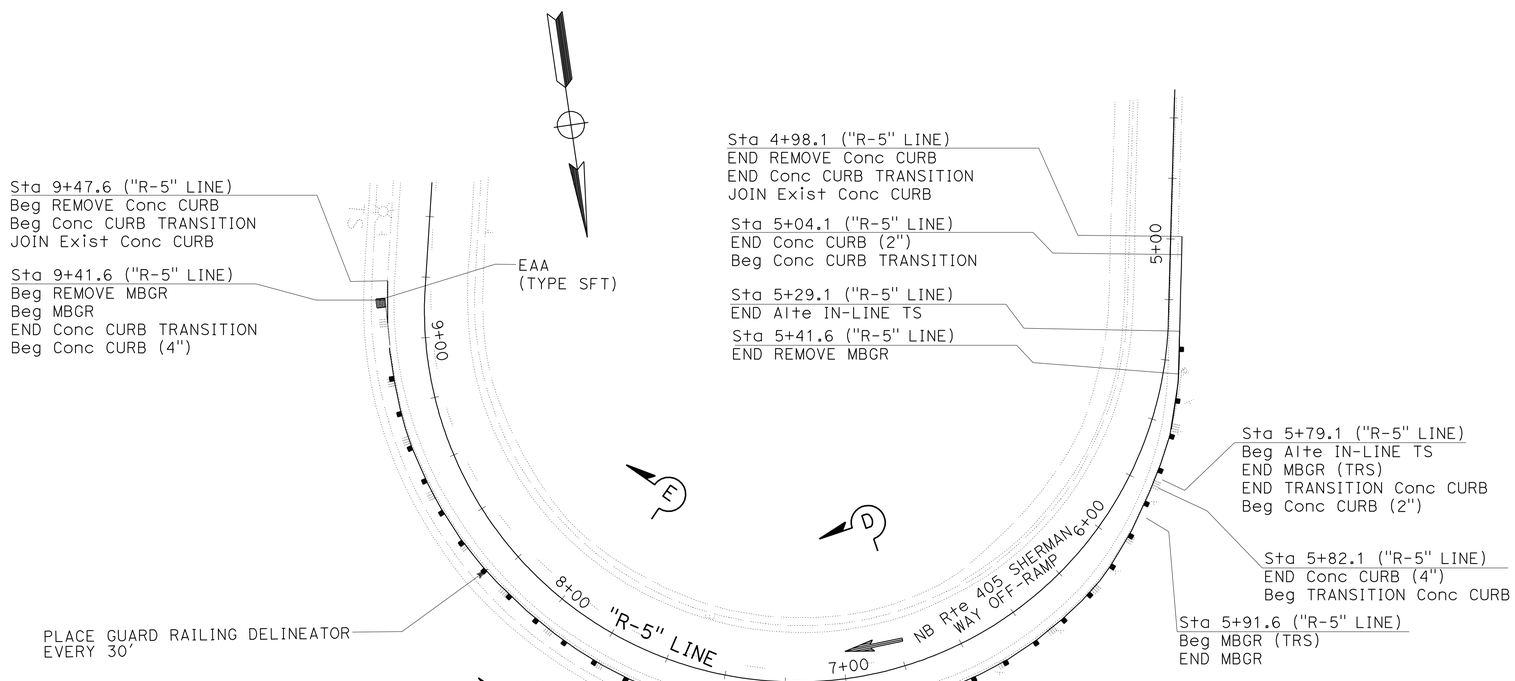
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR NOTES, SEE SHEET C-2

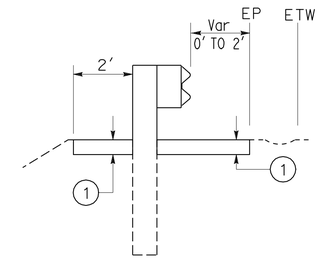


LOCATION 3

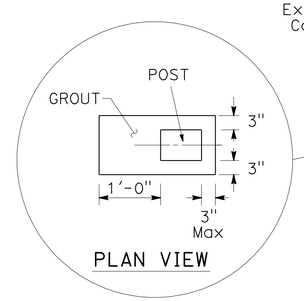


LOCATION 4

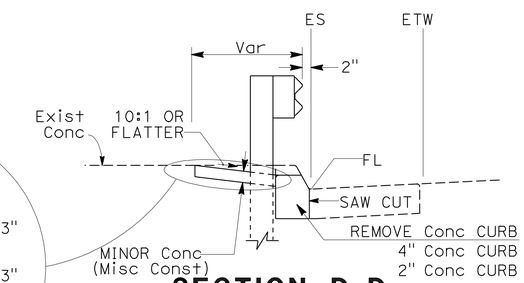
2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013



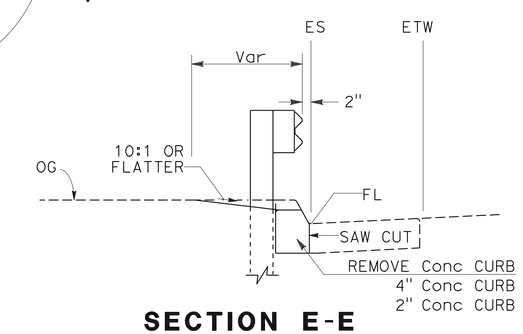
SECTION C-C



PLAN VIEW



2 SECTION D-D



SECTION E-E

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
CALCULATED-DESIGNED BY: RICHARD KHAW
CHECKED BY: ESTHER M. KIM
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:47

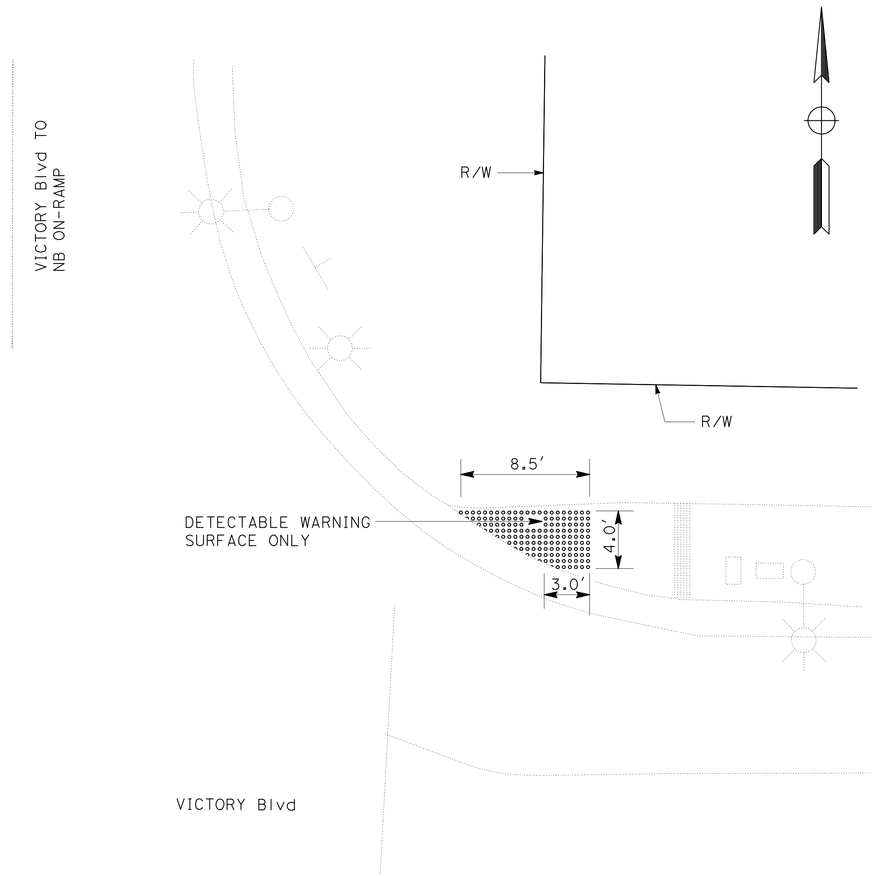
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	51	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



PLAN

2

CURB RAMP No. ~~4~~ 2
(DETECTABLE WARNING SURFACE)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-16

REVISED BY	PETER DINH
DATE REVISED	
CALCULATED-DESIGNED BY	PAUL CRISPI
CHECKED BY	
FUNCTIONAL SUPERVISOR	PAUL CRISPI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:47

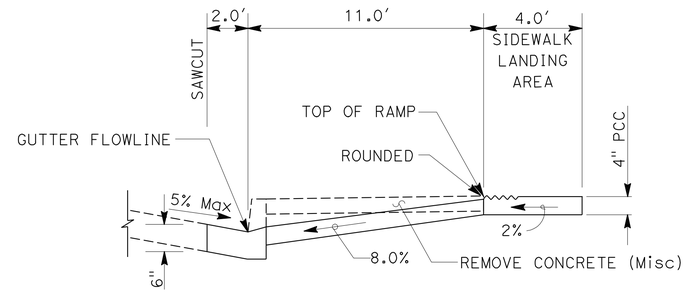
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	52	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

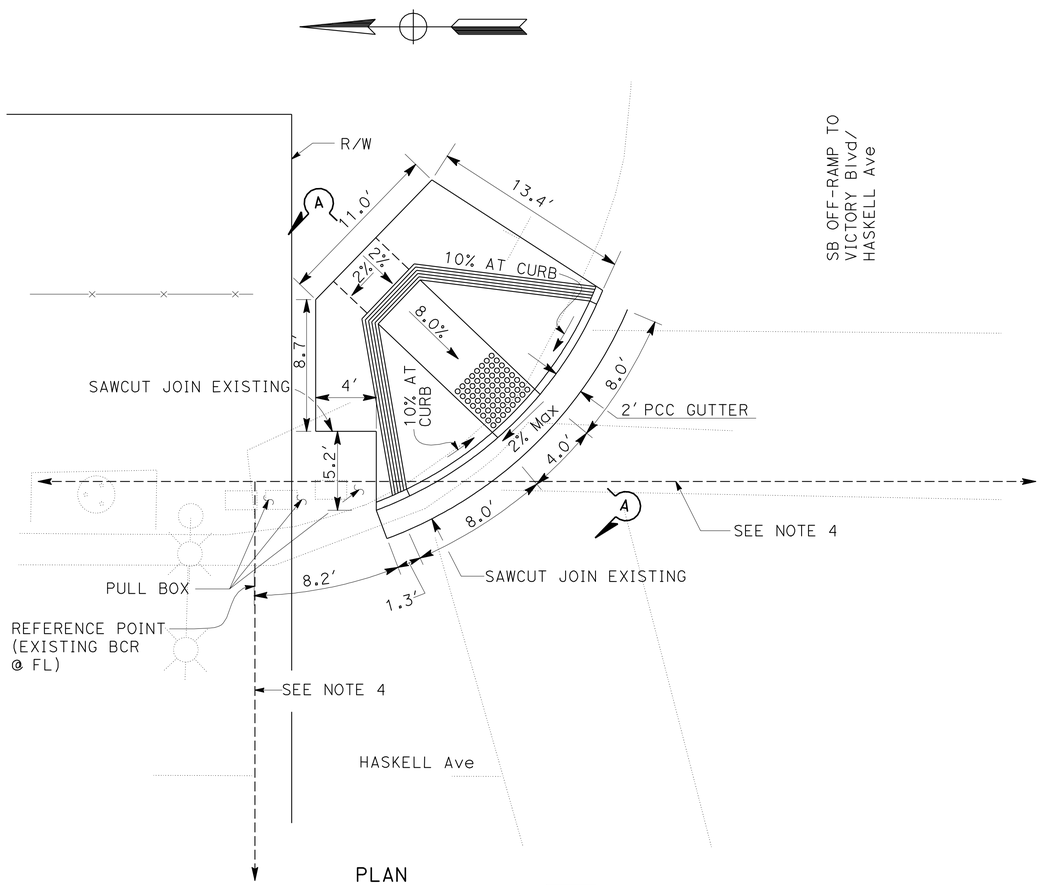
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A

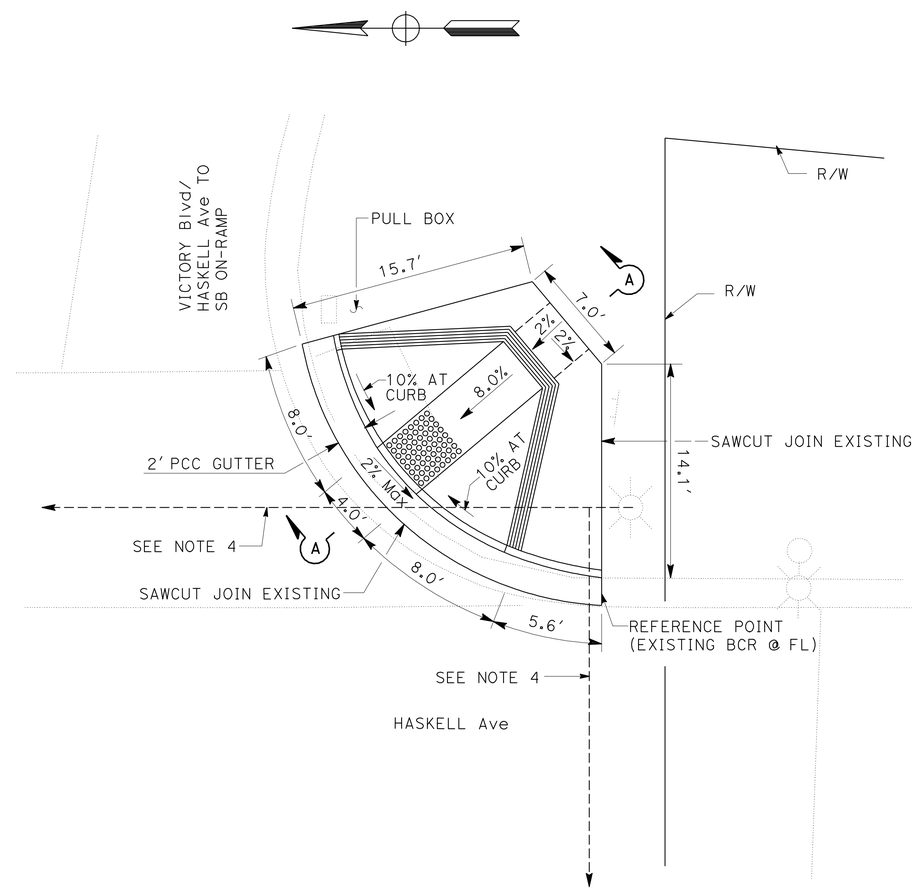


PLAN

2

CURB RAMP No. ~~5~~ 3

(CASE A)



PLAN

2

CURB RAMP No. ~~6~~ 4

(CASE A)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS

NO SCALE

C-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:47

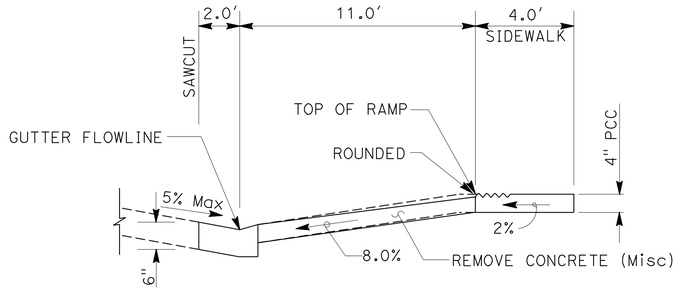
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	53	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

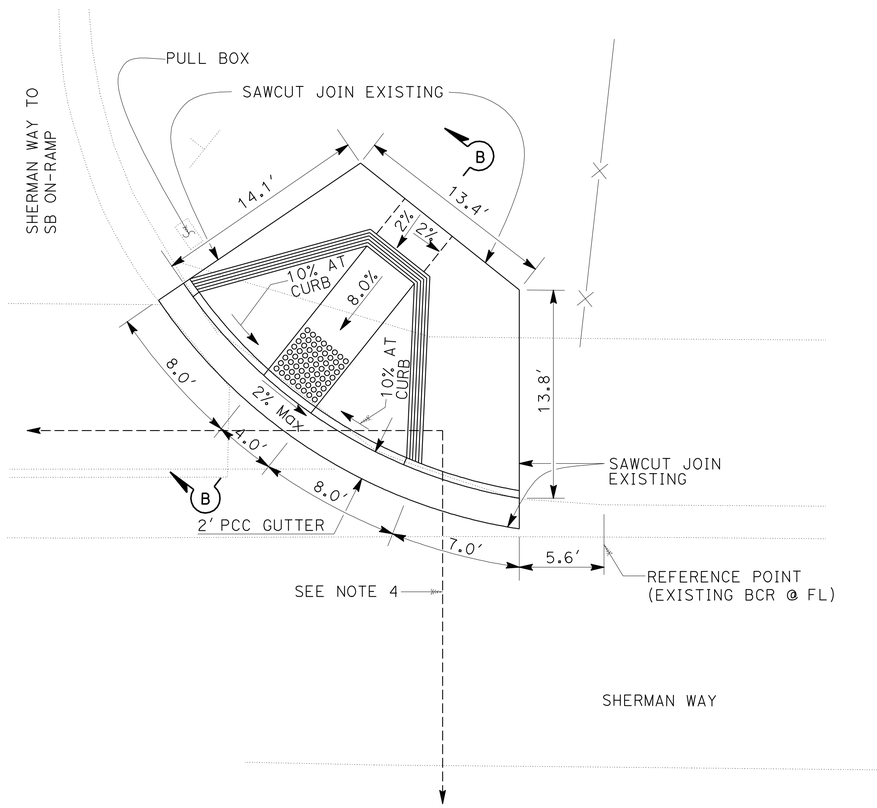
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION B-B



PLAN

2

CURB RAMP No. ~~7~~ 5
(CASE A)

PLAN

2

CURB RAMP No. ~~8~~ 6
(DETECTABLE WARNING SURFACE)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:47

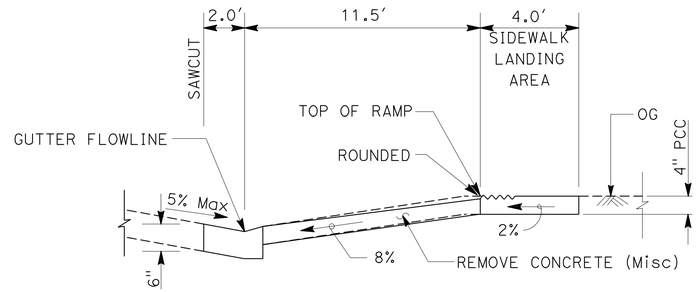
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	54	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

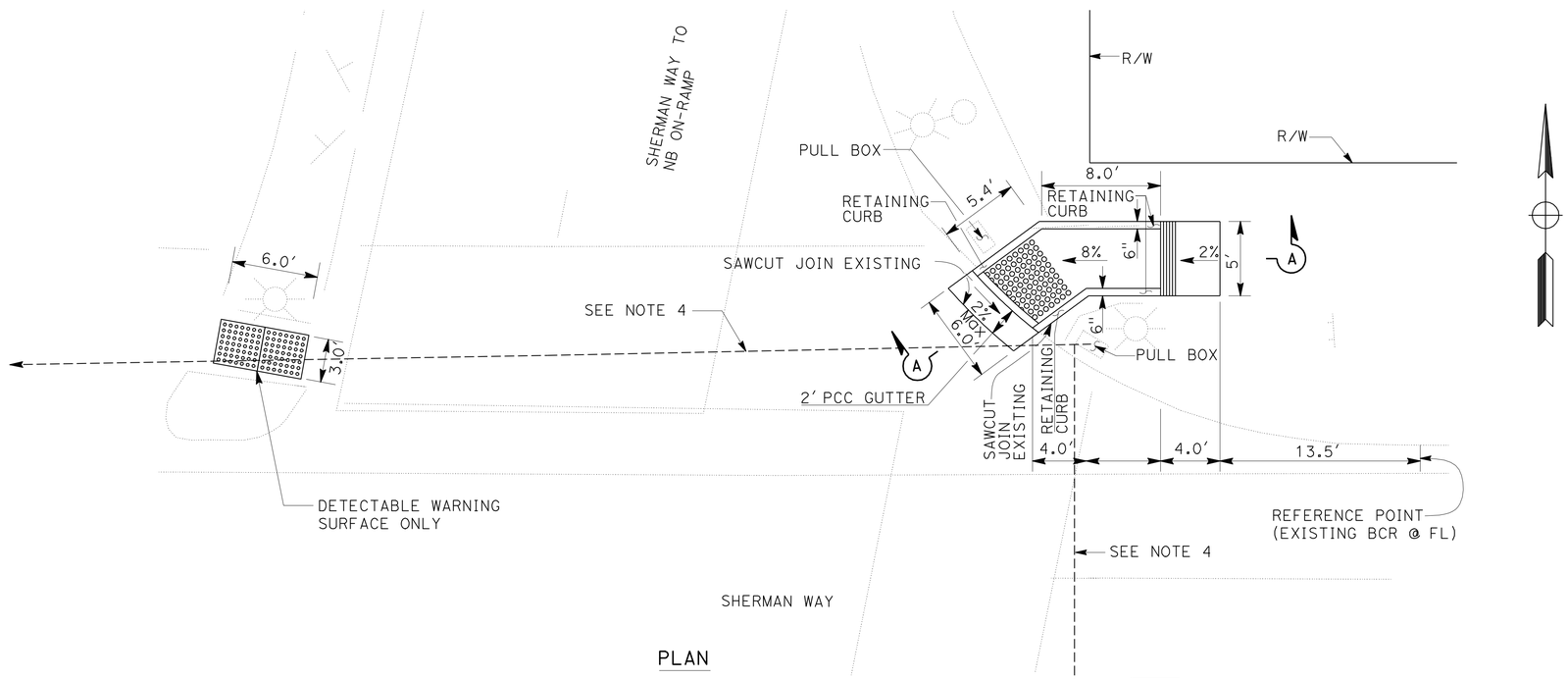
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A



PLAN

2

CURB RAMP No. ~~9~~ 7
(DETECTABLE WARNING SURFACE)

2

CURB RAMP No. ~~10~~ 8
(CASE F Mod)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-19

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
PETER DINH	PAUL CRISPI

FUNCTIONAL SUPERVISOR: PAUL CRISPI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:48

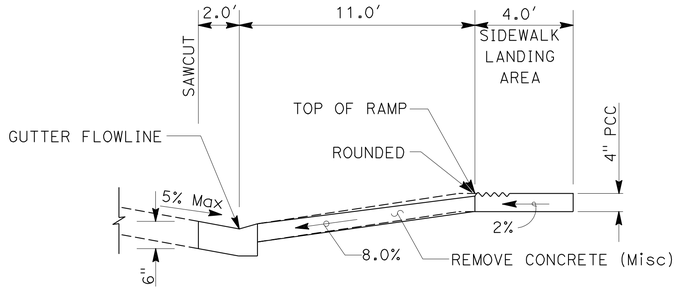
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	55	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

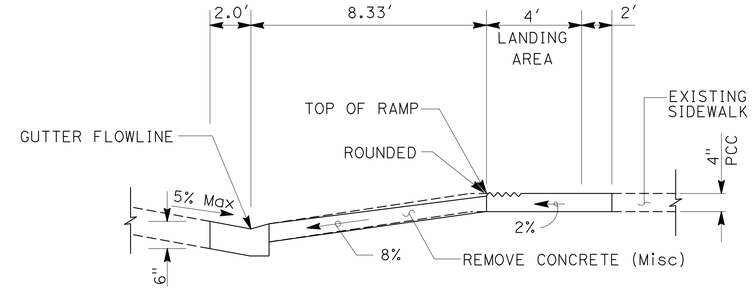
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

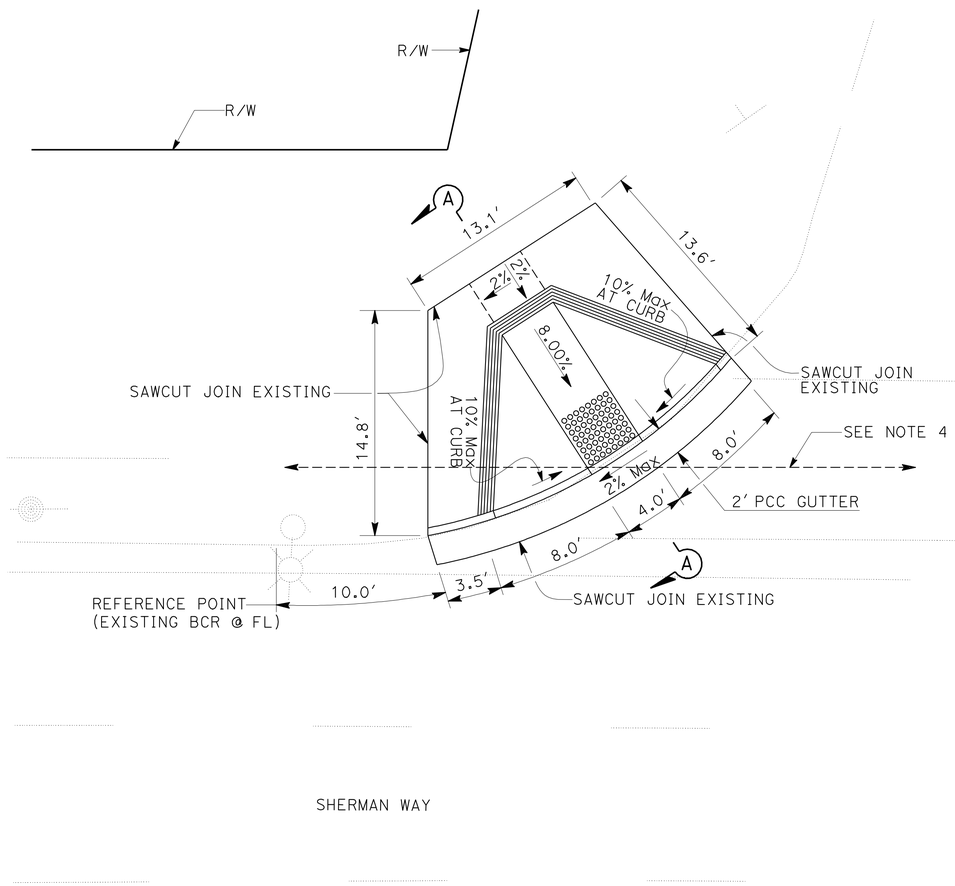
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

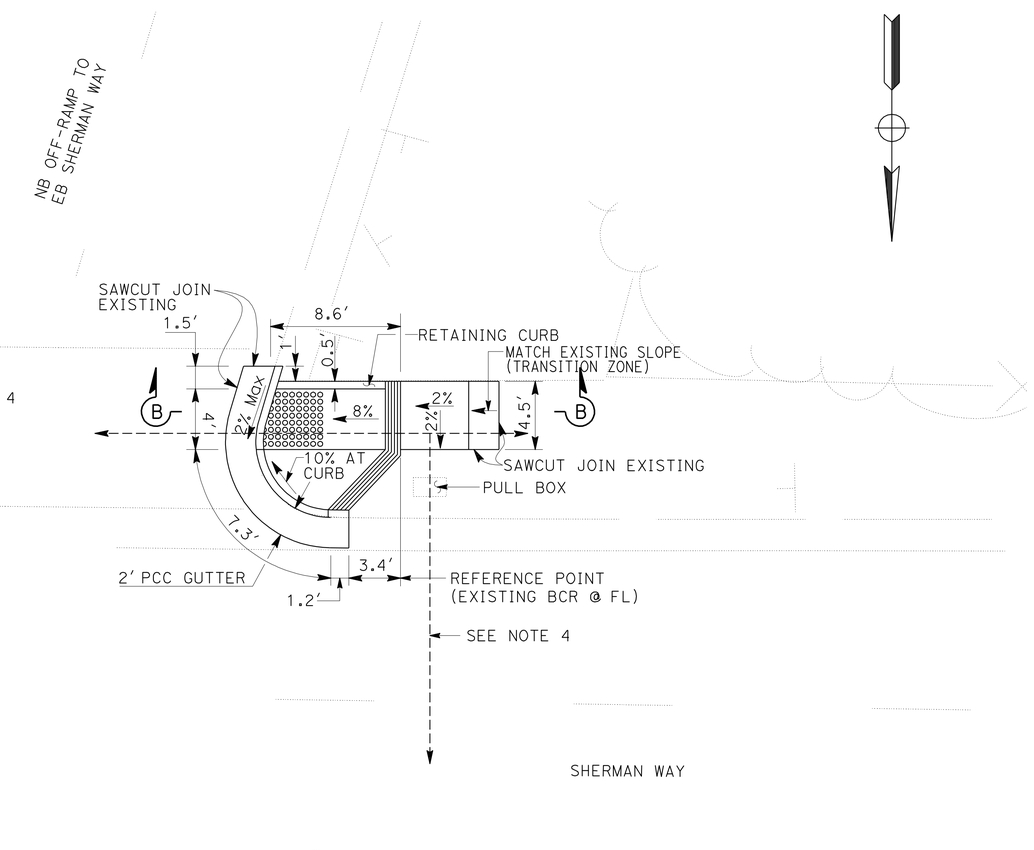


SECTION A-A



SECTION B-B





PLAN

2

CURB RAMP No. ~~11~~ 9
(CASE A)

2

CURB RAMP No. ~~12~~ 10
(CASE G)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:48

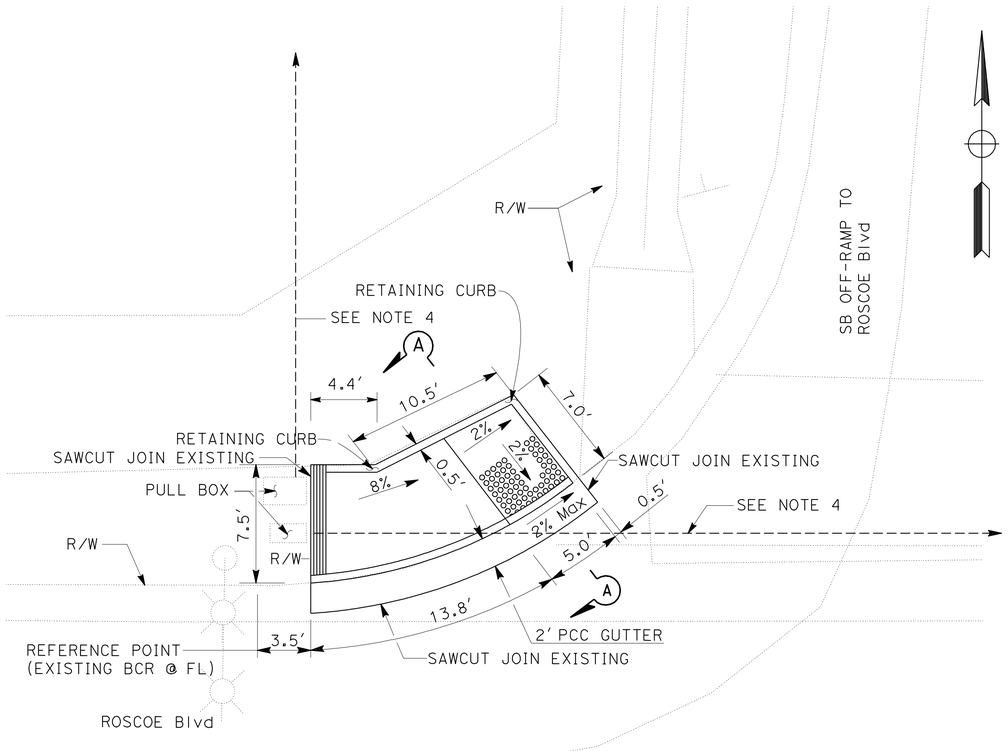
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	56	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

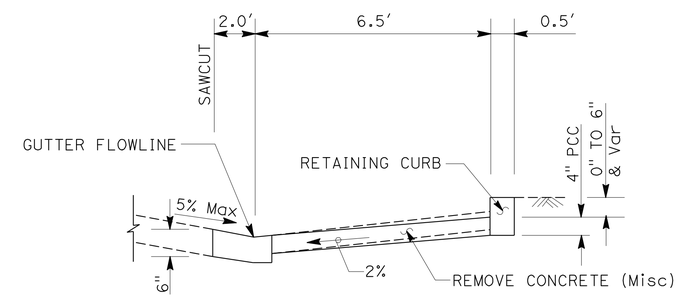
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



PLAN



SECTION A-A

2

CURB RAMP No. ~~15~~ 11
(CASE C Mod)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:48

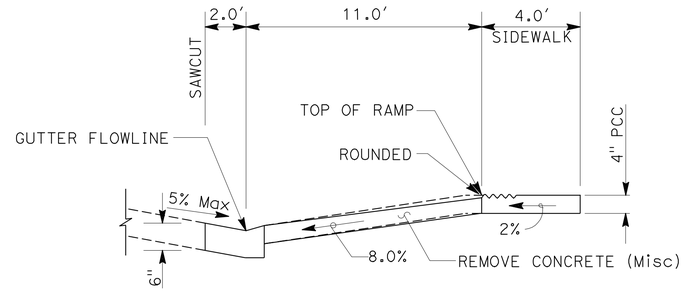
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	57	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

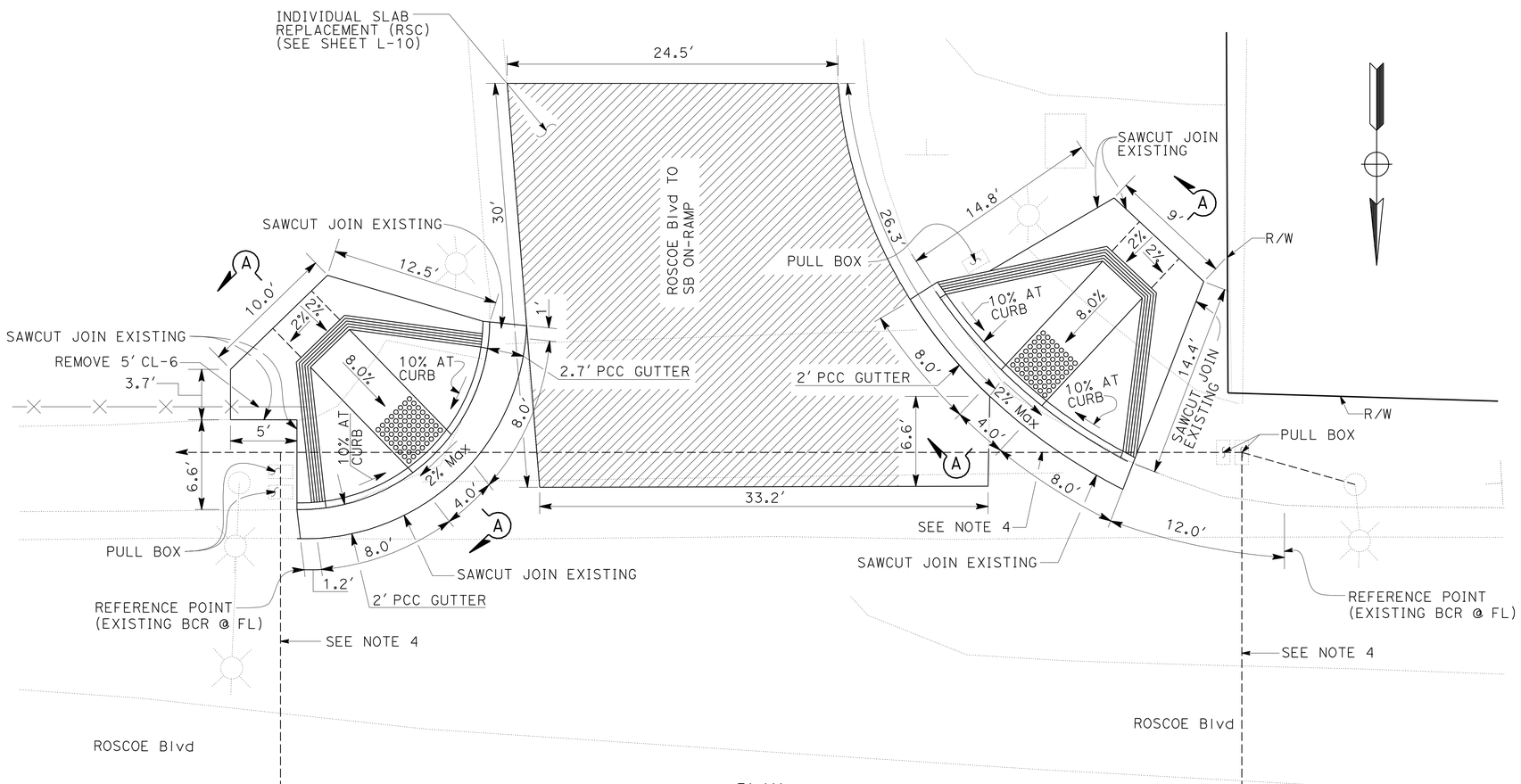
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A



PLAN

CURB RAMP No. ~~16~~ 12
(CASE A)

CURB RAMP No. ~~17~~ 13
(CASE A)

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

CONSTRUCTION DETAILS
NO SCALE

C-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

PETER DINH — CALCULATED-DESIGNED BY
PAUL CRISPI — CHECKED BY
PAUL CRISPI — FUNCTIONAL SUPERVISOR
REVISED BY — DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:48

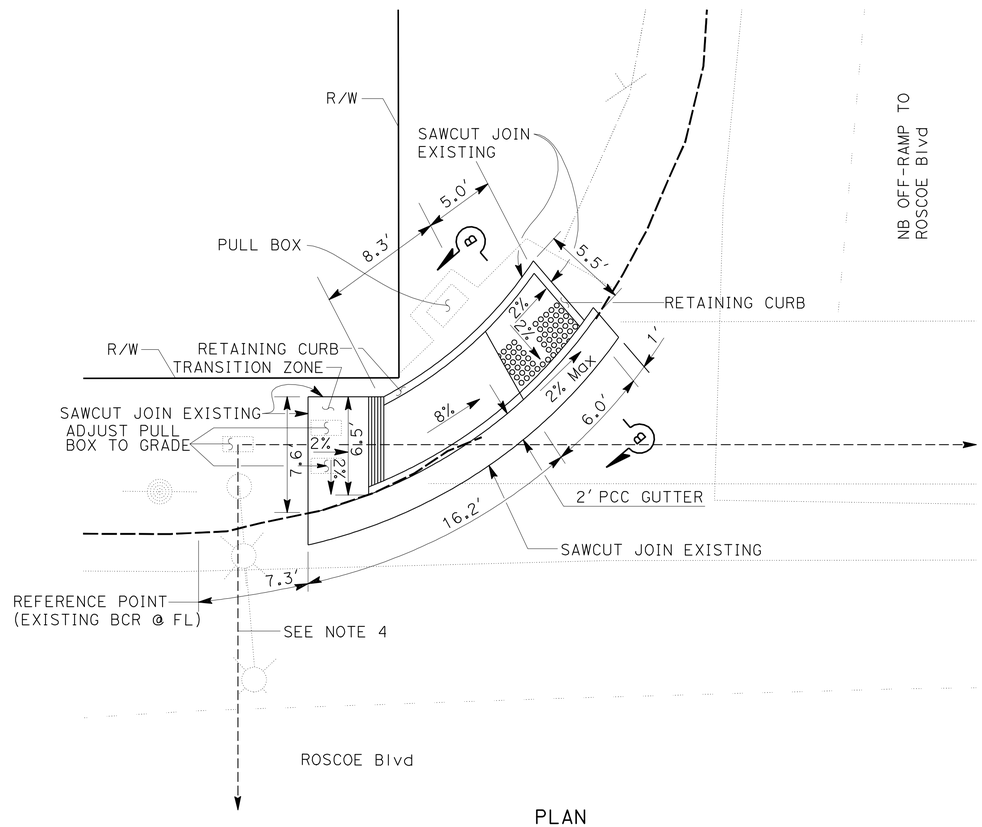
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	58	179

REGISTERED CIVIL ENGINEER DATE 5-30-12

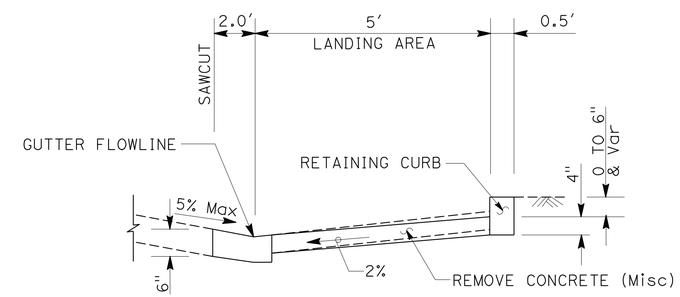
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



PLAN



SECTION B-B

2

CURB RAMP No. ~~19~~ 14

(CASE C Mod)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS

NO SCALE

C-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:48

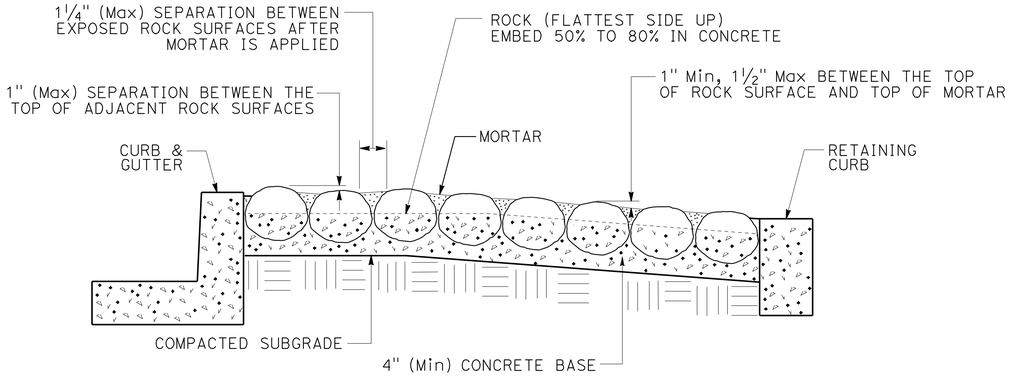
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	59	179

REGISTERED CIVIL ENGINEER DATE 5-30-12

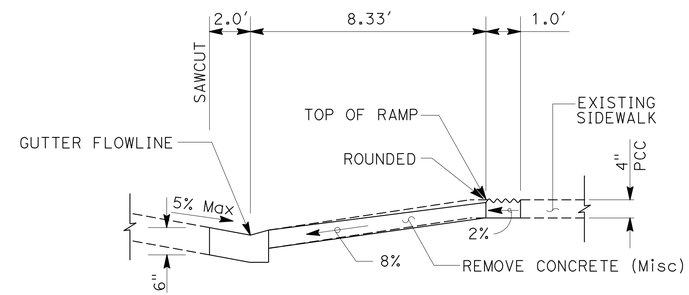
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

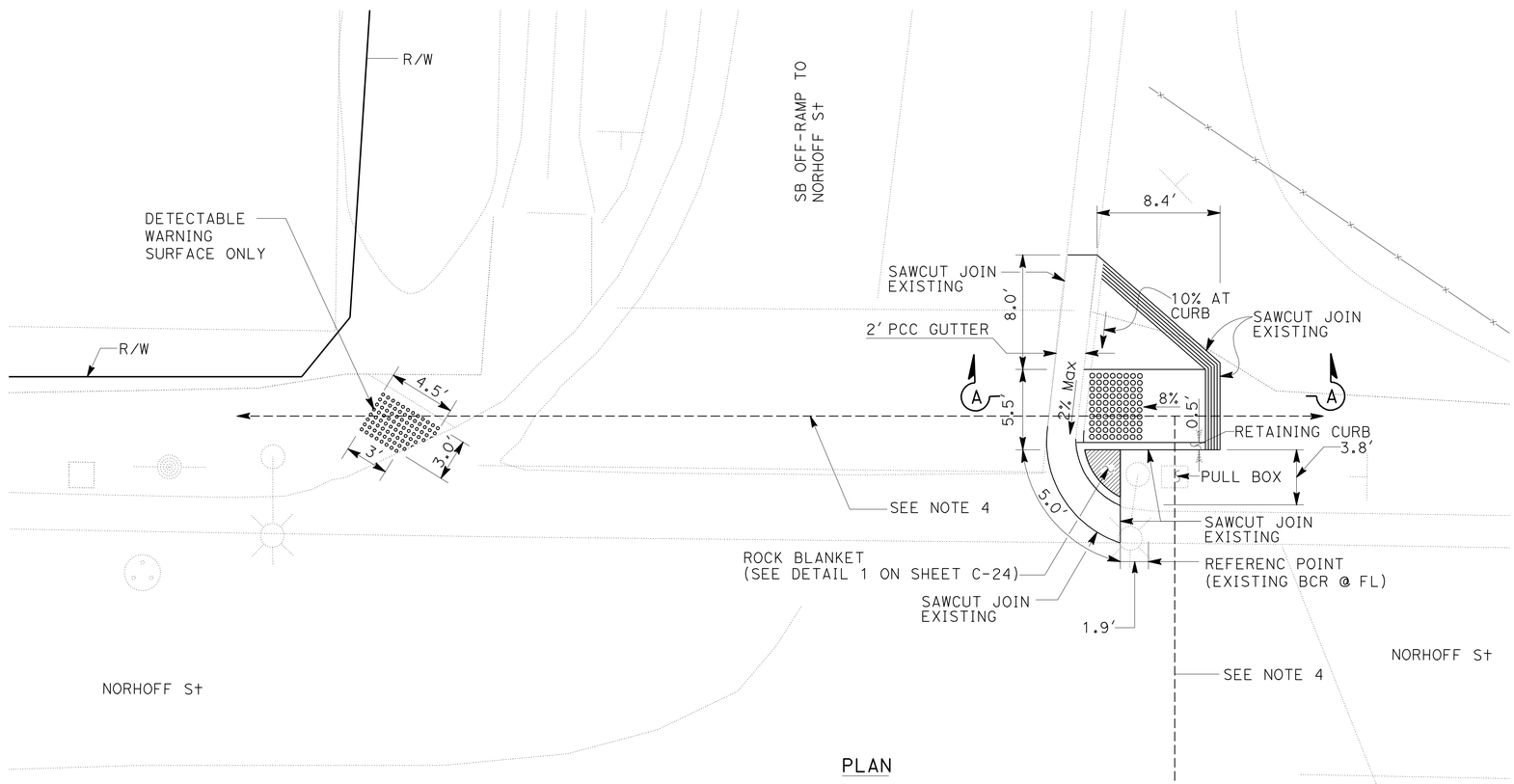
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DETAIL 1
ROCK BLANKET



SECTION A-A



PLAN

2

CURB RAMP No. ~~20~~ 15
(DETECTABLE WARNING SURFACE)

2

CURB RAMP No. ~~21~~ 16
(CASE G Mod)

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

CONSTRUCTION DETAILS
NO SCALE

C-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:48

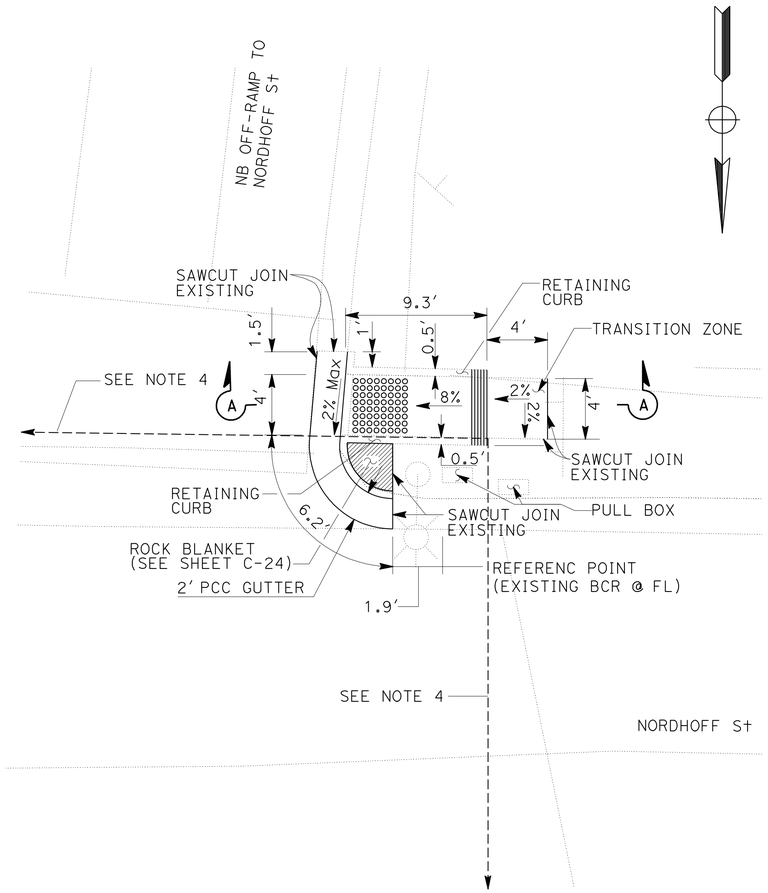
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	60	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

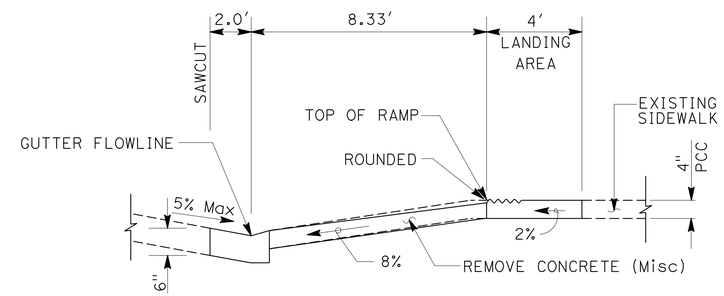
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



PLAN



SECTION A-A

2

CURB RAMP No. ~~22~~ 17

(CASE F Mod)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS

NO SCALE

C-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI

CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI

REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:48

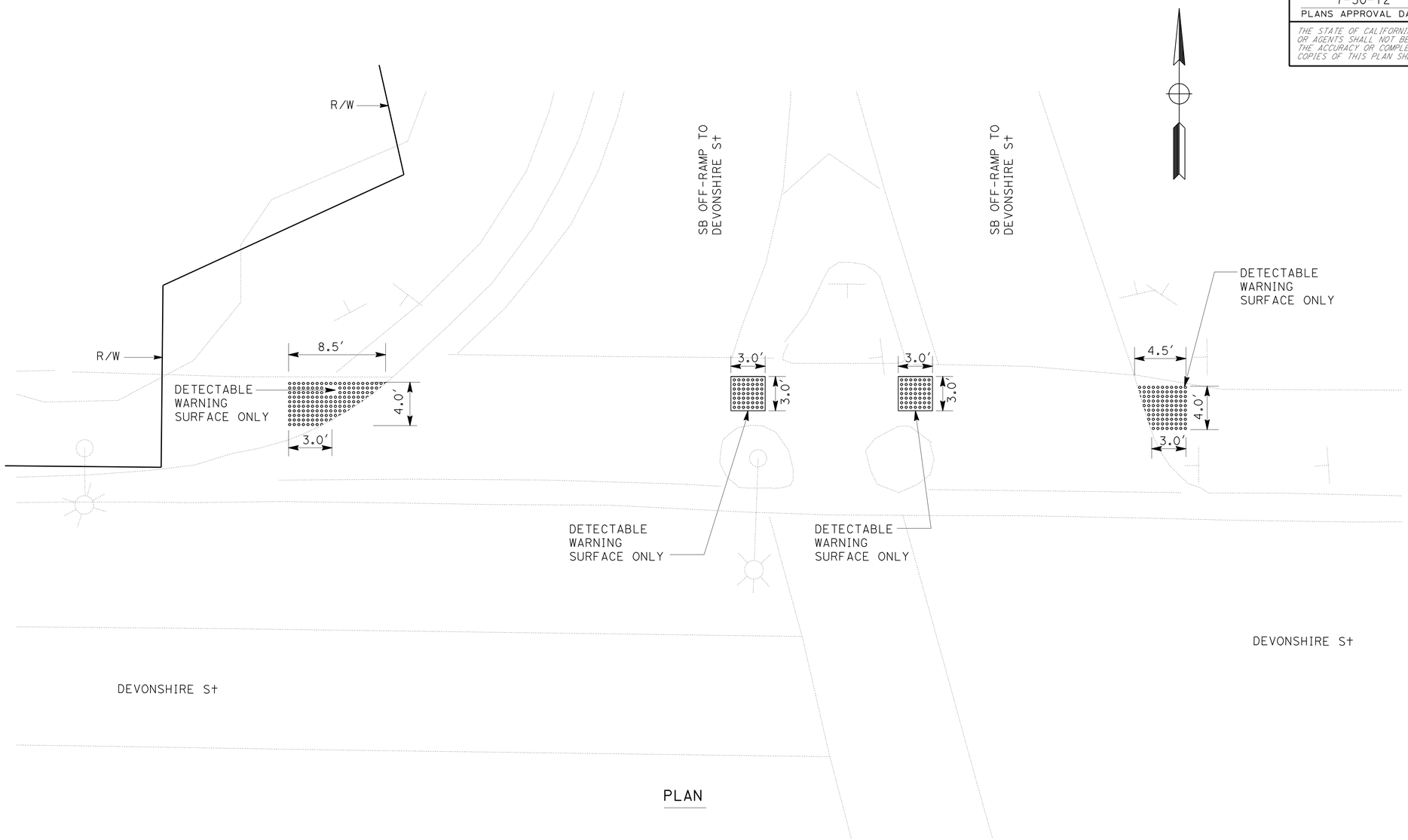
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	61	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



PLAN

2 **CURB RAMP No. ~~23~~ 18**
(DETECTABLE WARNING SURFACE)

2 **CURB RAMP No. ~~24~~ 19**
(DETECTABLE WARNING SURFACE)

2 **CURB RAMP No. ~~25~~ 20**
(DETECTABLE WARNING SURFACE)

2 **CURB RAMP No. ~~26~~ 21**
(DETECTABLE WARNING SURFACE)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:48

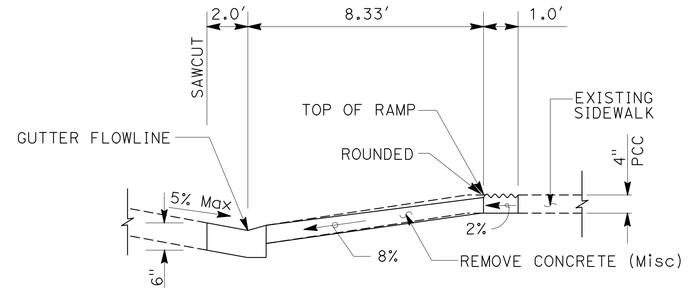
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	62	179

REGISTERED CIVIL ENGINEER DATE 5-30-12

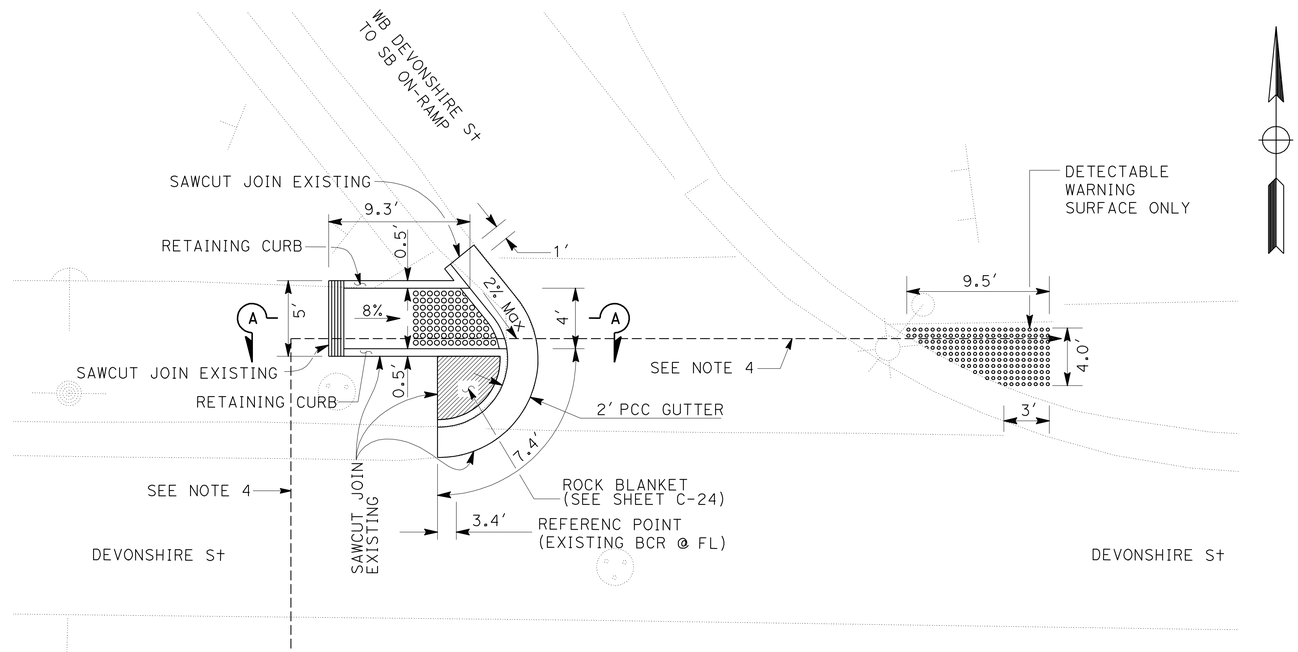
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A



PLAN

2 **CURB RAMP No. ~~27~~ 22**
(CASE F Mod)

2 **CURB RAMP No. ~~28~~ 23**
(DETECTABLE WARNING SURFACE)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-27

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
PETER DINH	PAUL CRISPI

FUNCTIONAL SUPERVISOR: PAUL CRISPI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:48

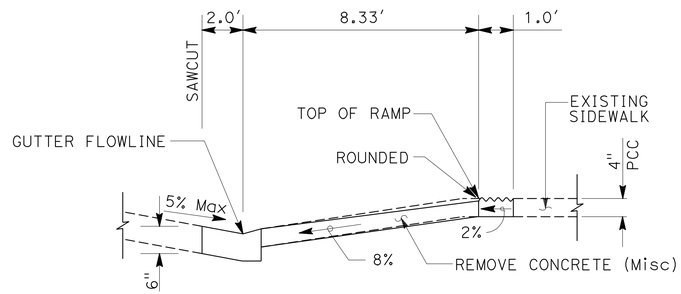
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	63	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

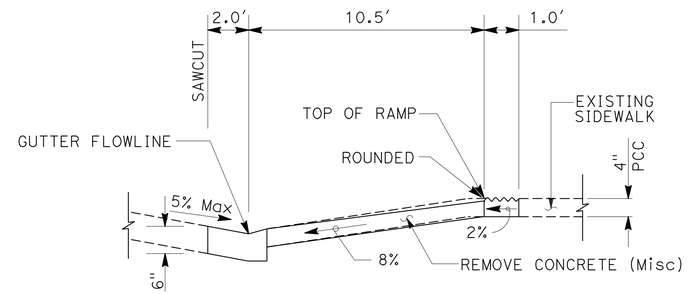
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

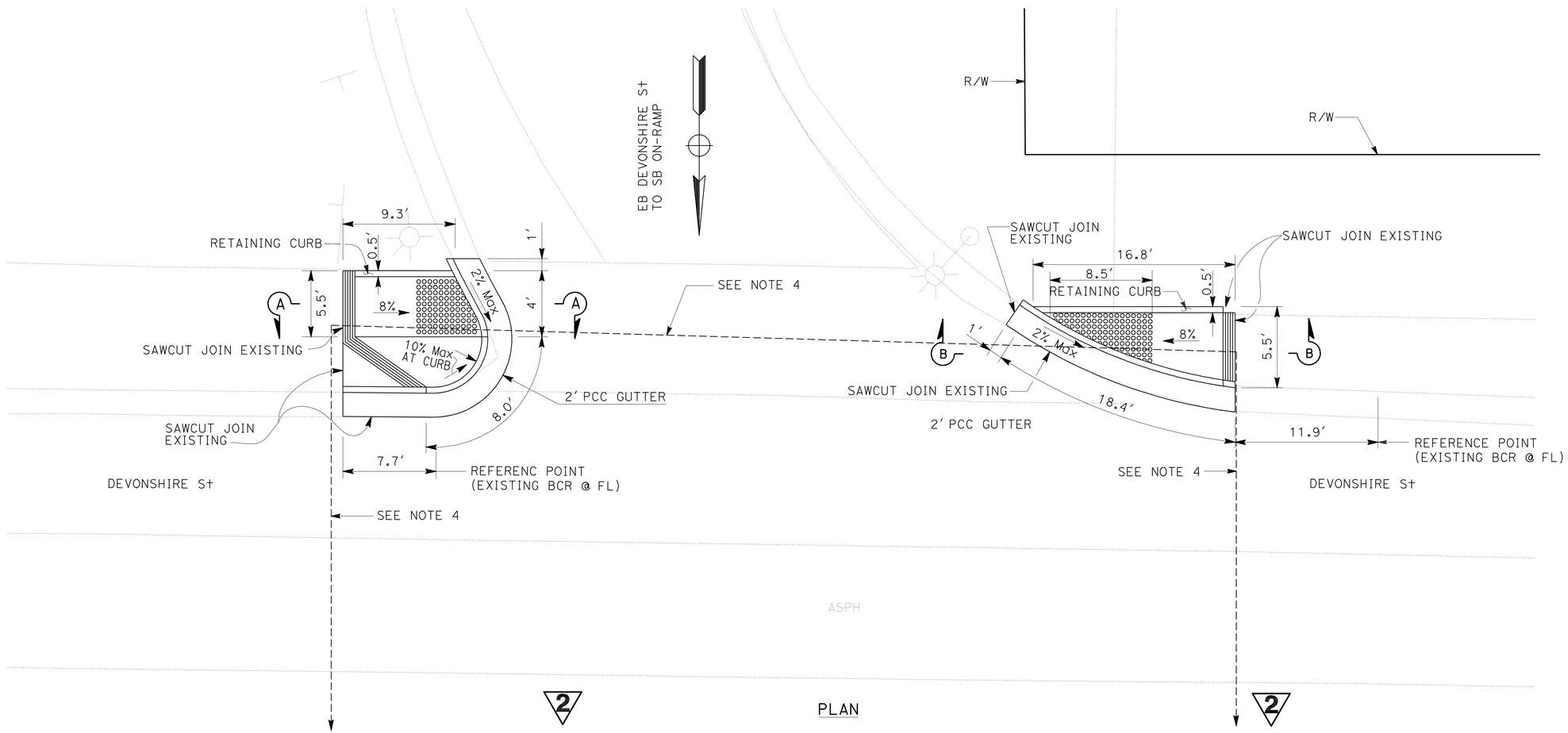
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SECTION A-A



SECTION B-B



PLAN

CURB RAMP No. ~~29~~ 24 (2)
(CASE G)

CURB RAMP No. ~~30~~ 25 (2)
(CASE CM)

(2) **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:48

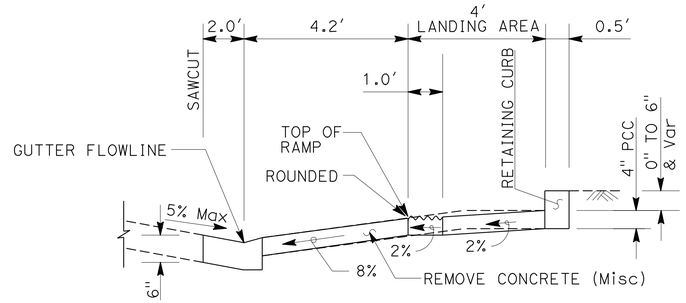
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	64	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

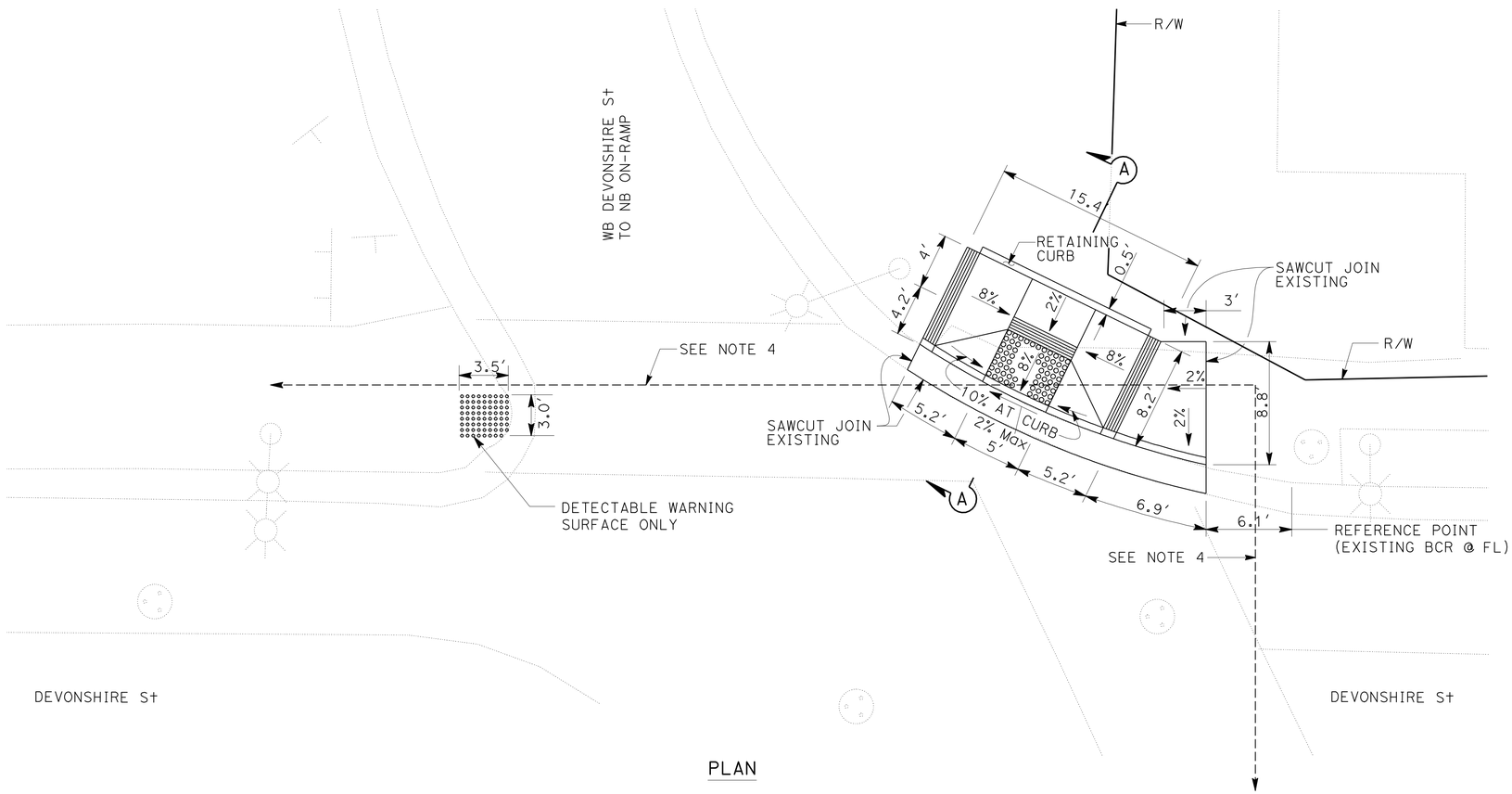
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A



PLAN

2

CURB RAMP No. ~~31~~ 26
(DETECTABLE WARNING SURFACE)

2

CURB RAMP No. ~~32~~ 27
(CASE B)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:49

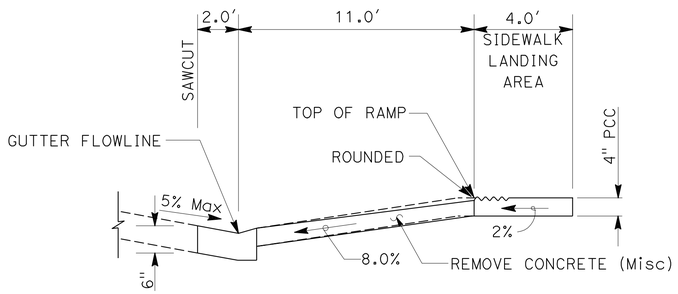
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	65	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

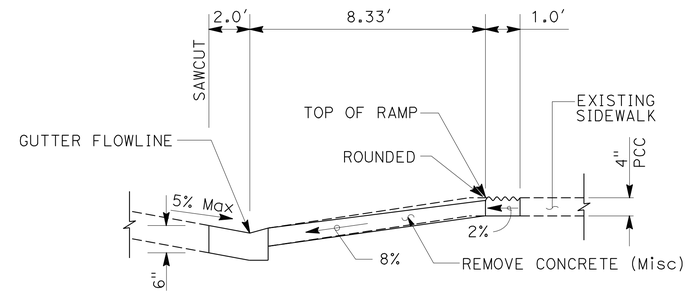
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

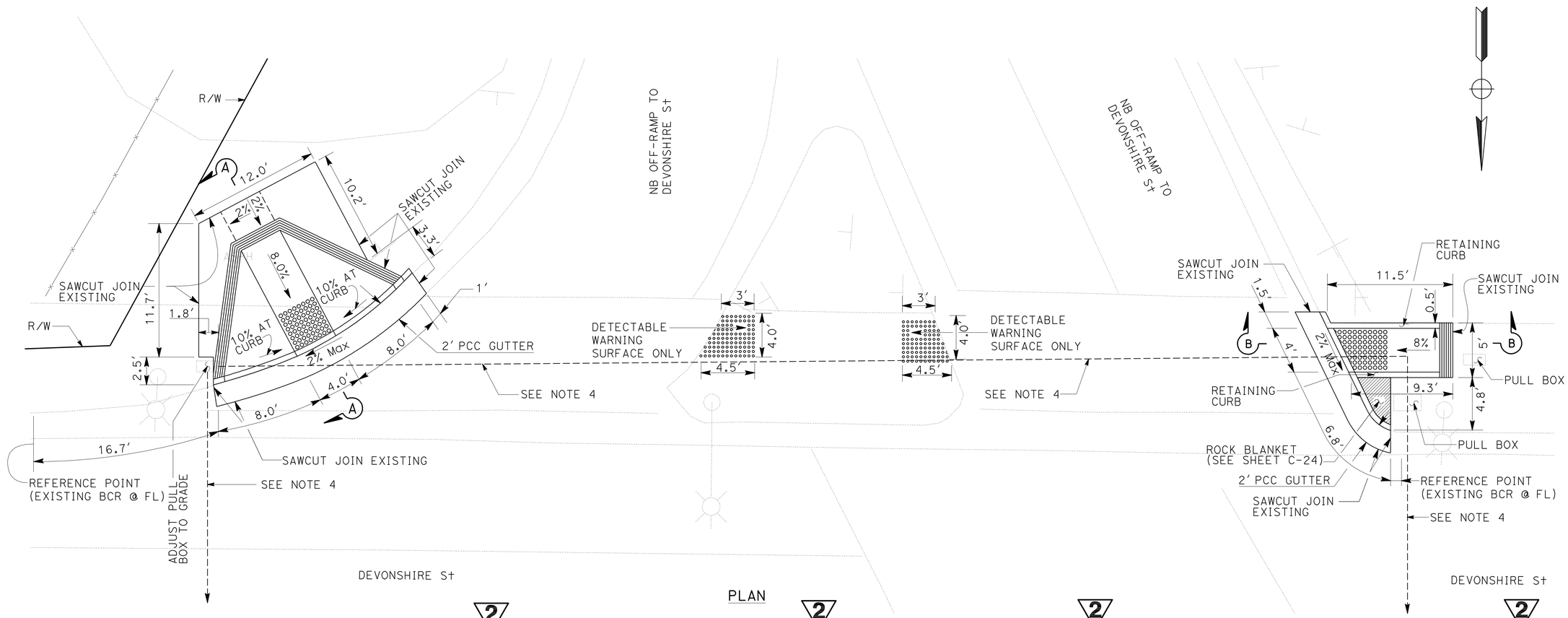
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SECTION A-A



SECTION B-B



PLAN

2 **CURB RAMP No. ~~33~~ 28**
(CASE A)

2 **CURB RAMP No. ~~34~~ 29**
(DETECTABLE WARNINGSURFACE)

2 **CURB RAMP No. ~~35~~ 30**
(DETECTABLE WARNING SURFACE)

2 **CURB RAMP No. ~~36~~ 31**
(CASE F Mod)

CONSTRUCTION DETAILS

NO SCALE

C-30

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:49

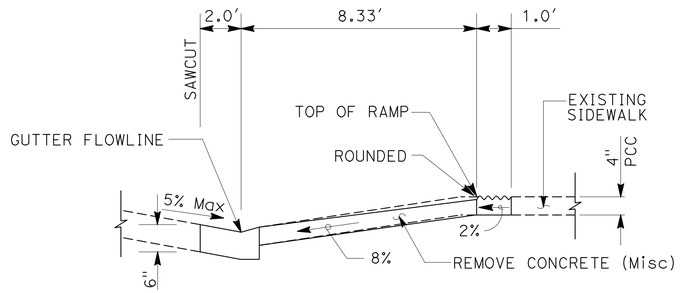
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	66	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

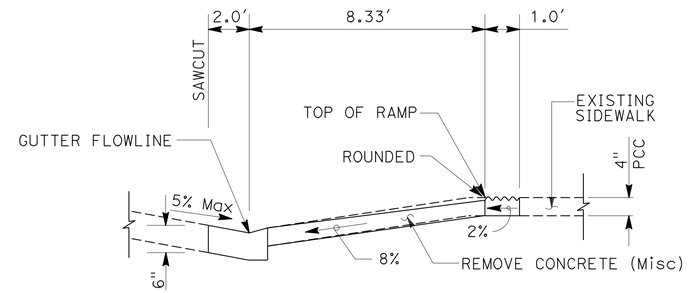
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

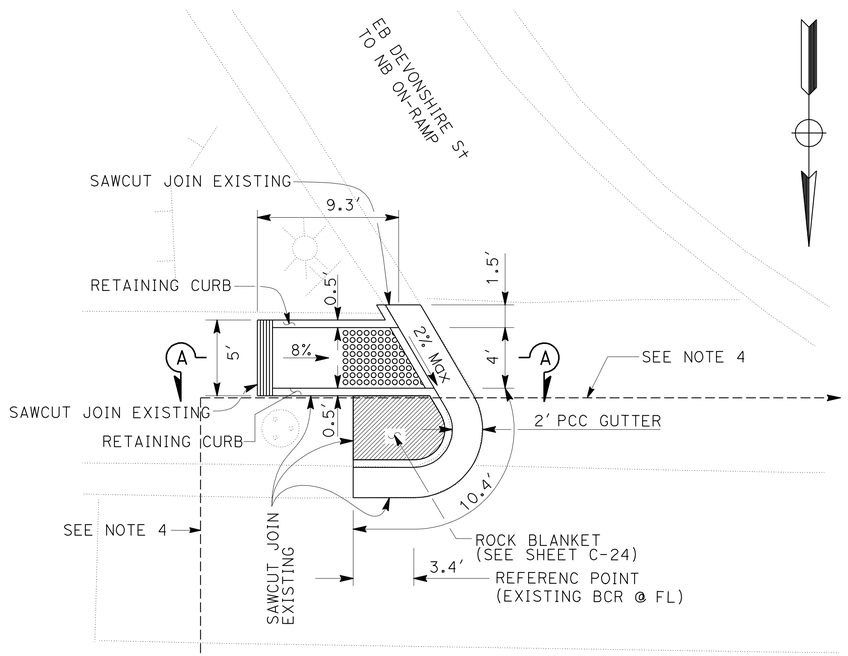
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SECTION A-A



SECTION A-A

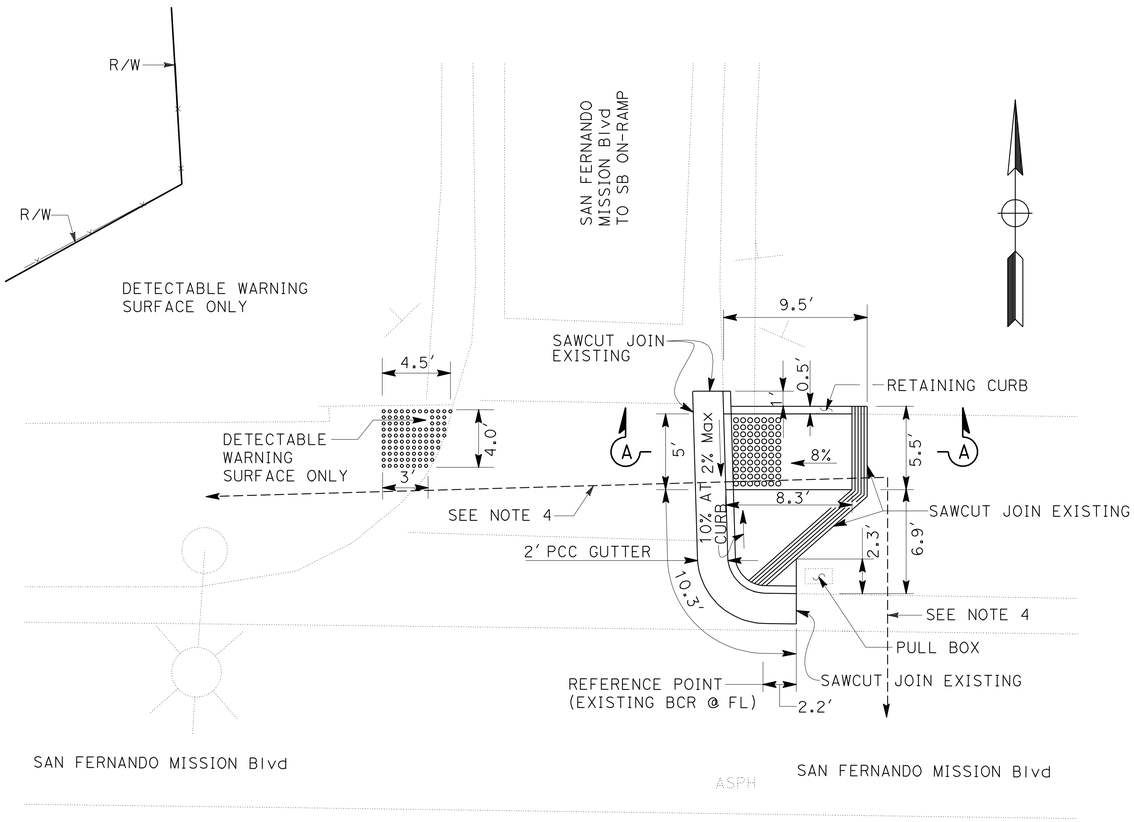


PLAN

2

CURB RAMP No. ~~37~~ 32

(CASE F Mod)



PLAN

2

CURB RAMP No. ~~38~~ 33

(DETECTABLE WARNING SURFACE)

2

CURB RAMP No. ~~39~~ 34

(CASE G)

CONSTRUCTION DETAILS

NO SCALE

C-31

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:49

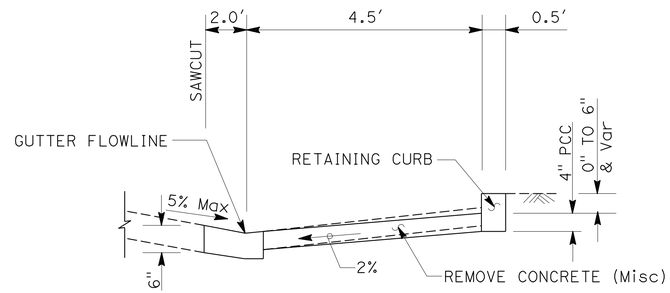
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	67	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

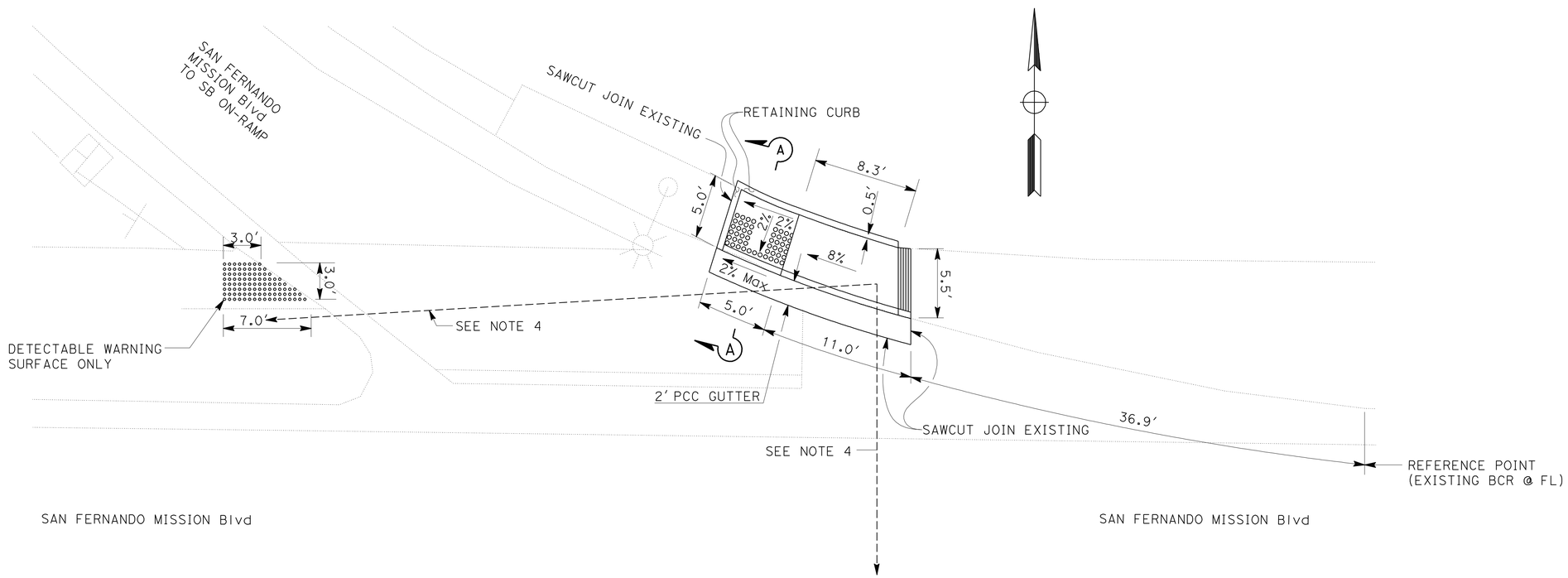
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A



PLAN

2

CURB RAMP No. ~~40~~ 35
(DETECTABLE WARNING SURFACE)

2

CURB RAMP No. ~~41~~ 36
(CASE C)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:49

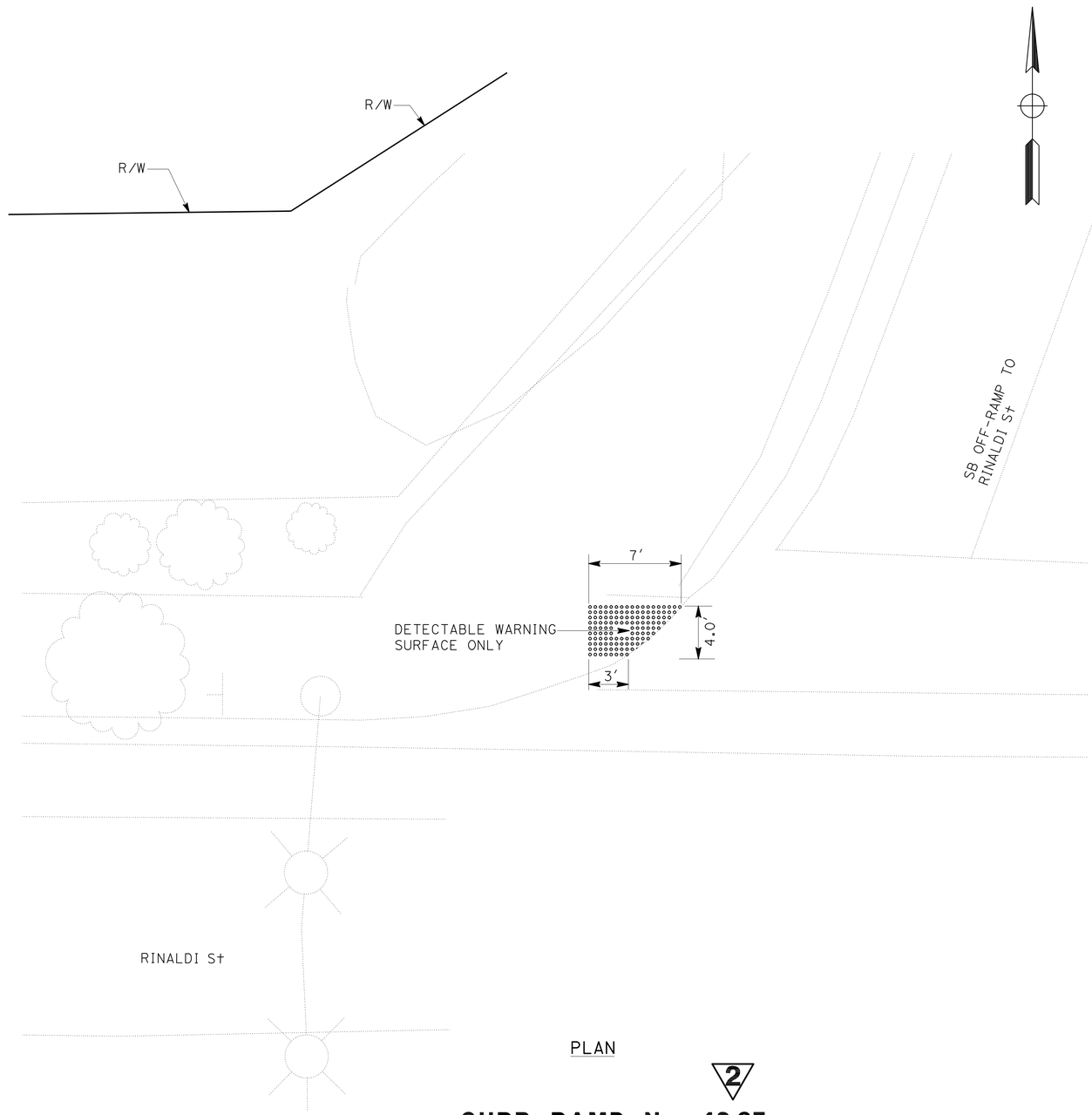
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	68	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



PLAN

2

CURB RAMP No. ~~42~~ 37
(DETECTABLE WARNING SURFACE)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:49

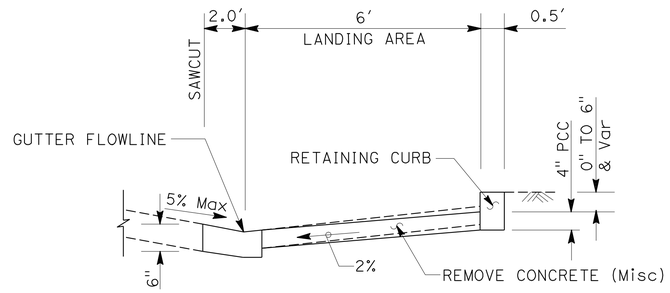
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	69	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

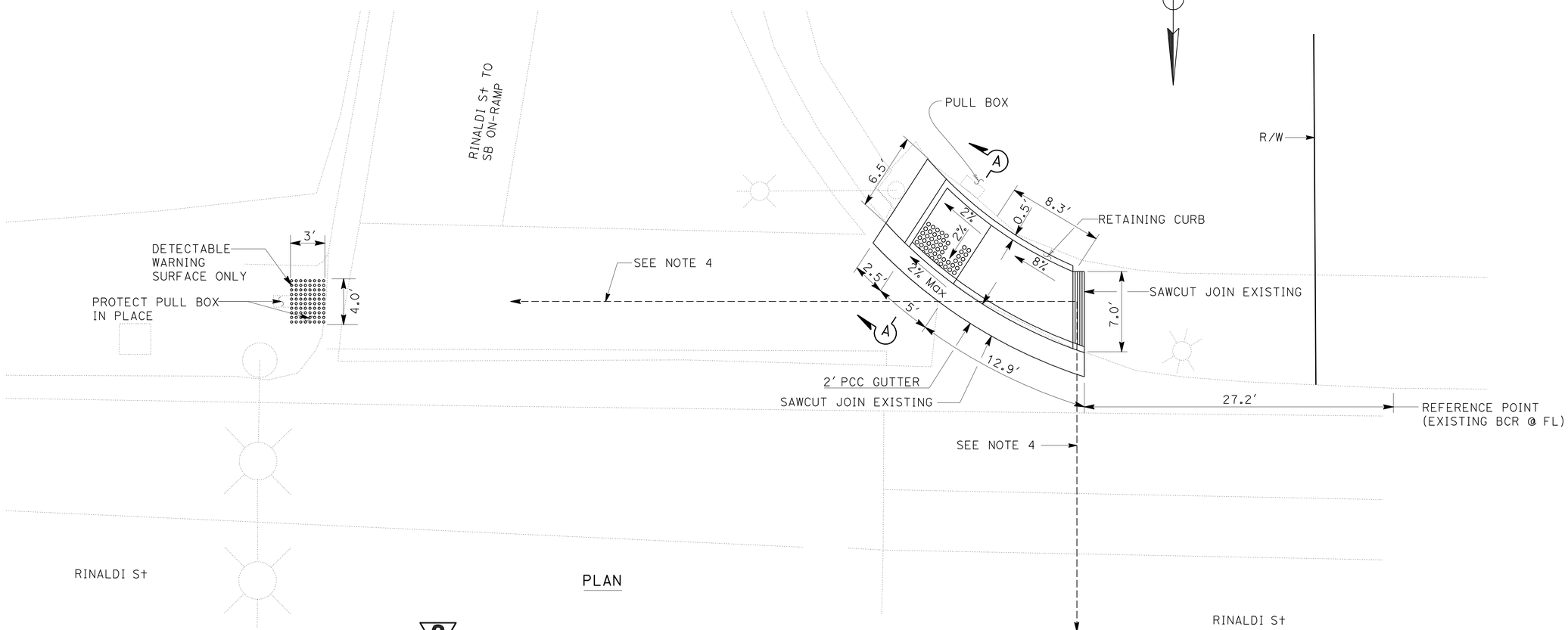
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 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.



SECTION A-A



PLAN

2

CURB RAMP No. ~~43~~ 38
(DETECTABLE WARNING SURFACE)

CURB RAMP No. ~~44~~ 39 2
(CASE C Mod)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:49

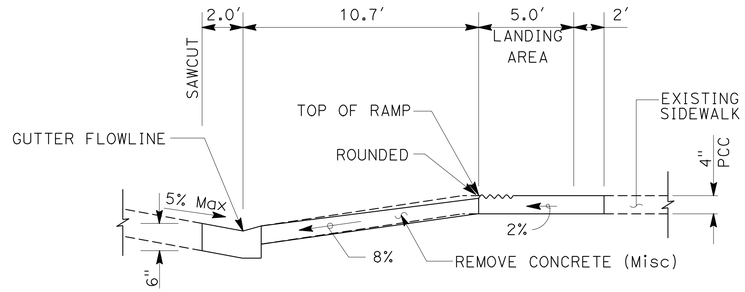
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	70	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

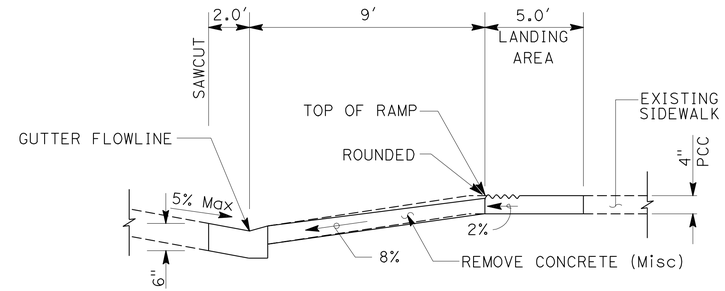
7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

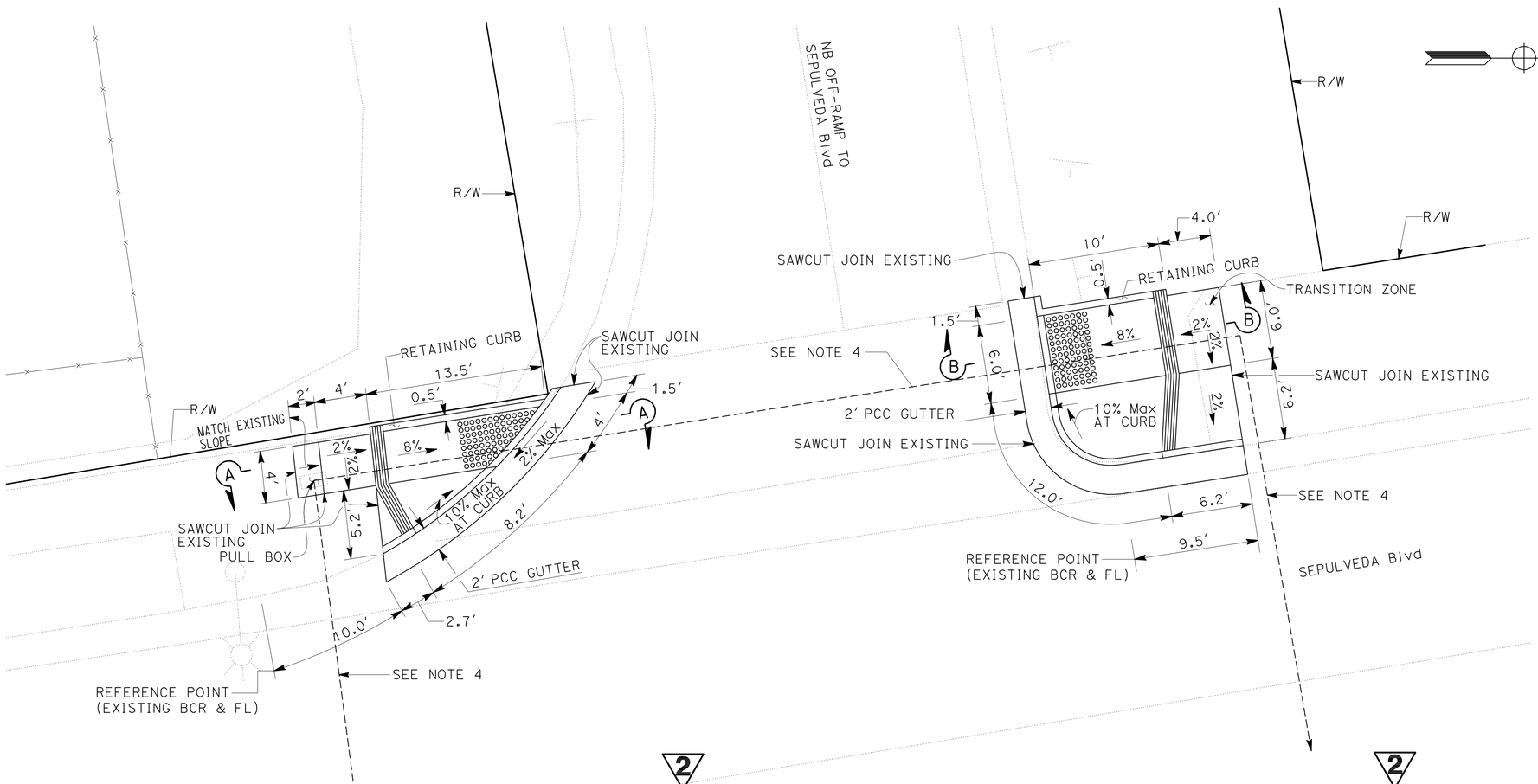
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SECTION A-A



SECTION B-B



2 **CURB RAMP No. ~~45~~ 40**
(CASE G Mod)

2 **CURB RAMP No. ~~46~~ 41**
(CASE G Mod)

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

CONSTRUCTION DETAILS
NO SCALE

C-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: PETER DINH
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:49

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	90	179

Timothy B Sobelman 6-1-12
REGISTERED CIVIL ENGINEER DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TIMOTHY B. SOBELMAN No. 59249 Exp. 6-30-13 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.

GENERAL NOTES

Designation:
Partial Austin Vault Sand Filters (AVSFs) are open air reinforced concrete vaults utilizing both sedimentation and sand filtration basins. Type designation is based on length configuration, water quality volume to be drained in a 24 hour period, and average depth of water.

Standard configurations are noted for the following design water quality volumes (WQV): 5,000, 10,000, and 15,000 cubic feet. Length configurations are either short (S) or long (L). The average water depth can be either 3 ft, 4.5 ft, or 6 ft as designed in Design Water Quality Volumes (WQV) table.

Special Reinforcement Coverage:
AVSF Standard Details are not to be used in a corrosive environment or where there is a severe abrasive flow condition or in freeze-thaw locations.

Special Design:
Required for the following conditions: ground water conditions above bottom of AVSF, surcharge loads exceeding HS20 truck load, design bearing pressures or sizes greater than those on this plan, inlet velocities which exceed 8.0 ft/sec at gabion wall, and settlement due to liquefaction.

DESIGN WATER QUALITY VOLUMES (WQV)

AVSF Type*	WQV (ft^3)	W(ft)	Ls(ft)	Lf(ft)	Hw(ft)
S-3500-3	3,500	21	14	38	3
L-3500-3	3,500	15	18	53	3
S-3500-4.5	4,380	21	14	38	4.5
L-3500-4.5	4,380	15	18	53	4.5
S-3500-6	5,260	21	14	38	6
L-3500-6	5,260	15	18	53	6
S-5000-3	5,000	27	15	42	3
L-5000-3	5,000	18	21	63	3
S-5000-4.5	6,250	27	15	42	4.5
L-5000-4.5	6,250	18	21	63	4.5
S-5000-6	7,500	27	15	42	6
L-5000-6	7,500	18	21	63	6
S-10000-3	10,000	36	21	63	3
L-10000-3	10,000	24	30	94	3
S-10000-4.5	12,500	36	21	63	4.5
L-10000-4.5	12,500	24	30	94	4.5
S-10000-6	15,000	36	21	63	6
L-10000-6	15,000	24	30	94	6
S-15000-3	15,000	45	25	76	3
L-15000-3	15,000	30	37	115	3
S-15000-4.5	18,750	45	25	76	4.5
L-15000-4.5	18,750	30	37	115	4.5
S-15000-6	22,500	45	25	76	6
L-15000-6	22,500	30	37	115	6

* AVSF Type = Length configuration (S or L) - water quality volume (CF) - design water depth (Hw elevation)

DESIGN NOTES

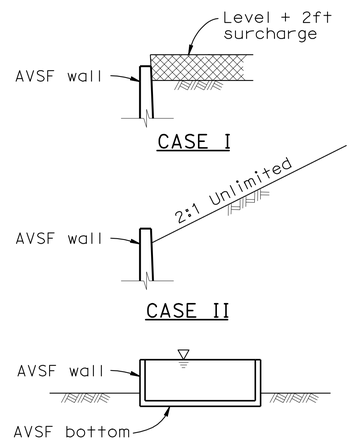
Specifications:
Design:
Bridge Design Specification April 2000 (LFD)
(1996 AASHTO) with interims and revisions by Caltrans

Wall & Footing (LFD): 1.5 D + 1.5 E + 1.5 W + 1.5 SC
Where D = Dead Load
E = Earth Load
W = Water Load
SC = Surcharge

Capacity reduction factor is included.

Earth Load: 125 lb/ft^3 vertical,
Water Load: 62.4 lb/ft^3 horizontal/vertical,

Earth pressure for 2:1 unlimited slope determined from Rankine's formula with ø = 33°42' (Case II).



DETAIL OF DESIGN LOADING CASES

CASE I Level + 2ft surcharge, AVSF empty
CASE II 2:1 Unlimited slope, AVSF empty
CASE III AVSF full of water, no soil pressure

Unit Stresses:
f'c = 4,000 psi
fy = 60,000 psi

INDEX TO PLAN

SHEET No.	TITLE
1	GENERAL NOTES
2	LAYOUT No. 1
3	LAYOUT No. 2
4	WALL DETAILS
5	DETAILS No. 1
6	DETAILS No. 2
7	DETAILS No. 3
8	DETAILS No. 4
9	MISCELLANEOUS DETAILS No. 1

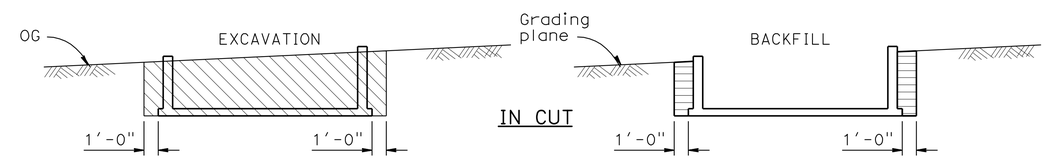
CONSTRUCTION NOTES

Expansion joints:
Inverts and sidewalls - Place ½" expansion joint filler and waterstop where indicated. see "Details No. 2" sheet for specific wall & invert details.

Construction Joints:
Shall be placed where indicated on plans.

Backfill:
See Standard Specifications, except the difference in backfill shall not exceed 8'-0" between side walls and inlet and outlet walls.

Earthwork:
Limits of payment for excavation and backfill.



LEGEND:
Structure excavation (AVSF)
Original ground, OG

NOTES:
1. Slope or shore excavation sides as necessary.
2. Dimensions shown are minimum.
3. 95% compaction 1'-0" below floor slabs.

STANDARD PLANS DATED JULY 2006

BO-3	BRIDGE DETAILS
B3-9	RETAINING WALL DETAILS No. 2
~~B6-21~~ RSPB6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
~~B11-47~~ RSPB11-47	CABLE RAILING
D100A	GABION BASKET DETAILS No. 1
D100B	GABION BASKET DETAILS No. 2

2

STANDARD PLAN SHEET No.
DETAIL No.

AUSTIN VAULT SAND FILTER
GENERAL NOTES

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

DRAINAGE DETAILS
NO SCALE

DD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
HYDRAULICS
FUNCTIONAL SUPERVISOR TIMOTHY B. SOBELMAN
CALCULATED-DESIGNED BY D. WANG
CHECKED BY L. HE
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:49

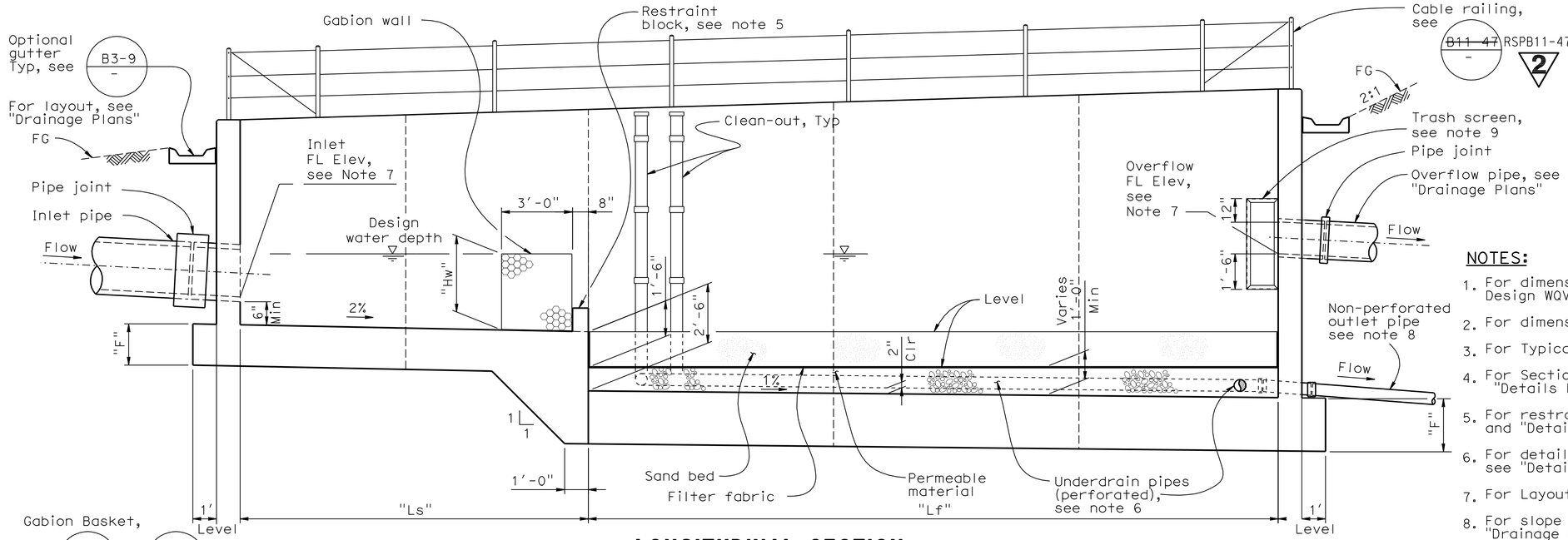
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	91	179

Timothy B Sobelman 6-1-12
REGISTERED CIVIL ENGINEER DATE

7-30-12
PLANS APPROVAL DATE

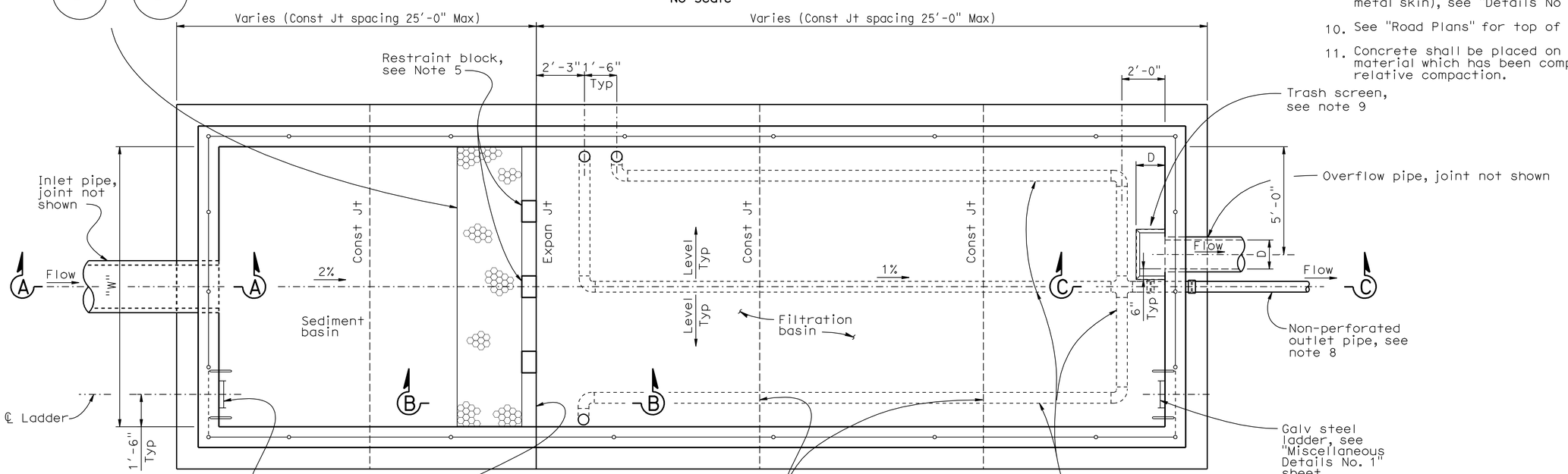
REGISTERED PROFESSIONAL ENGINEER TIMOTHY B. SOBELMAN No. 59249 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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.



LONGITUDINAL SECTION

No Scale



PLAN

No Scale

Note: Gutter not shown for clarity.

NOTES:

1. For dimensions "W", "Ls", "Lf" and "Hw", see Design WQV table on "General Notes" sheet.
2. For dimensions "C" and "F", see "Wall Details" sheet.
3. For Typical Section, see "Wall Details" sheet.
4. For Section A - A, B - B and C - C, see "Details No. 1" sheet.
5. For restraint block details, see "Details No. 1" and "Details No. 2" sheets.
6. For details of underdrain (sand filter), see "Details No. 4" sheet.
7. For Layout and FL elevation, see "Drainage Plans".
8. For slope of non-perforated outlet pipe, see "Drainage Plans".
9. For trash screen details (frame and perforated metal skin), see "Details No 3" sheet.
10. See "Road Plans" for top of wall elevations.
11. Concrete shall be placed on base or native material which has been compacted to 95% relative compaction.

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

AUSTIN VAULT SAND FILTER LAYOUT No. 1

DRAINAGE DETAILS

NO SCALE

DD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
HYDRAULICS

FUNCTIONAL SUPERVISOR: TIMOTHY B. SOBELMAN
CALCULATED-DESIGNED BY: D. WANG
CHECKED BY: L. HE
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:49

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	93	179

Timothy B Sobelman 6-1-12
REGISTERED CIVIL ENGINEER DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TIMOTHY B. SOBELMAN No. 59249 Exp. 6-30-13 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.

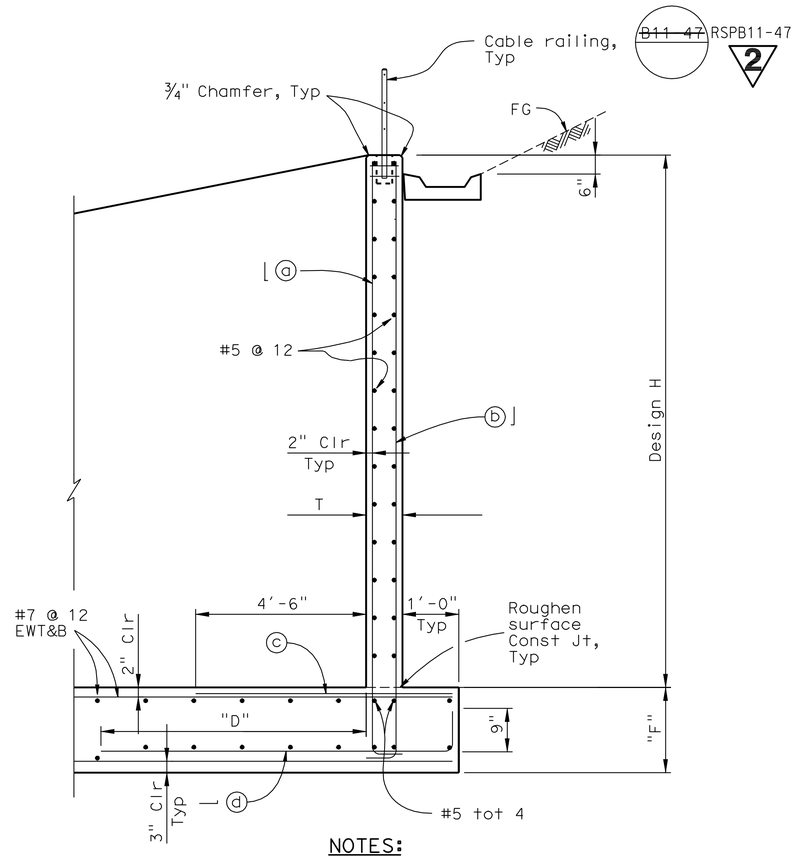
NOTES:

1. For width dimension "W", see "General Notes" sheet.
2. For footing details not shown, see "Footing Details" sheet.
3. The contractor shall have the option of matching the Sedimentation Basin wall thickness with the Filtration Basin wall thickness. This shall be at no
4. additional cost to the State.

   Reinforcement notation "EWT&B" is acronym for "Each Way Top & Bottom".
5. Width "W" is the inside width between walls, see "Layout No. 1" sheet and the Design WQV table on "General Notes" sheet.
6. For additional corner reinforcement not indicated see "Typical Corner Detail" on "Details No. 1" sheet.

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA FOR WALL

Design H	6′	8′	10′	12′	14′	16′
T	12"	12"	12"	12"	14"	14"
F	1′-3"	1′-3"	1′-3"	1′-6"	1′-9"	1′-9"
⌋ ⓐ bars # @ "	6 @ 12	6 @ 12	6 @ 8	7 @ 8	8 @ 8	9 @ 6
L ⓑ bars # @ "	6 @ 12	6 @ 12	6 @ 8	7 @ 8	8 @ 8	8 @ 6
ⓒ bars # @ "	6 @ 12	6 @ 12	6 @ 8	6 @ 8	7 @ 8	7 @ 6
— ⓓ bars # @ "	6 @ 12	6 @ 12	6 @ 8	6 @ 8	7 @ 8	7 @ 6



NOTES:

"D" = 8′-0" when "W" ≤ 30′-0"

"D" = 12′-0" when "W" > 30′-0"

TYPICAL SECTION
No Scale

AUSTIN VAULT SAND FILTER
WALL DETAILS

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

DRAINAGE DETAILS
NO SCALE

DD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **HYDRAULICS**

FUNCTIONAL SUPERVISOR: TIMOTHY B. SOBELMAN
CALCULATED-DESIGNED BY: D. WANG
CHECKED BY: L. HE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:50

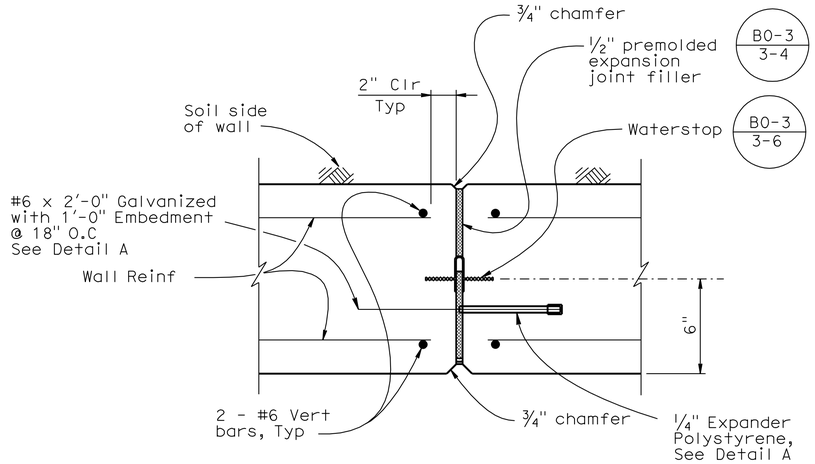
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	95	179

Timothy B Sobelman 6-1-12
REGISTERED CIVIL ENGINEER DATE

7-30-12
PLANS APPROVAL DATE

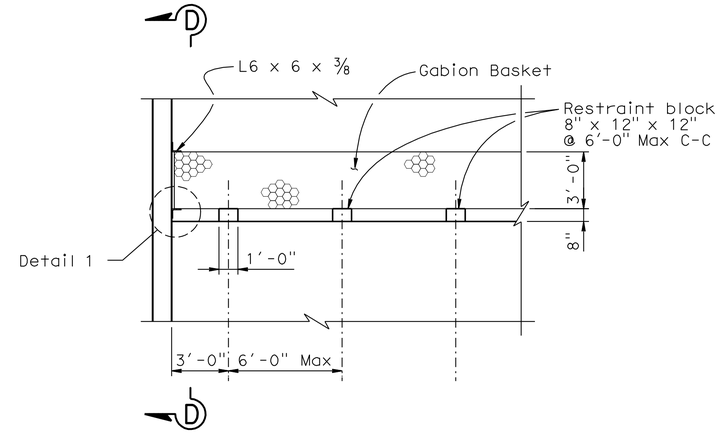
REGISTERED PROFESSIONAL ENGINEER TIMOTHY B. SOBELMAN No. 59249 Exp. 6-30-13 CIVIL STATE OF CALIFORNIA

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.



WALL EXPANSION JOINT DETAIL - PLAN SECTION

No Scale

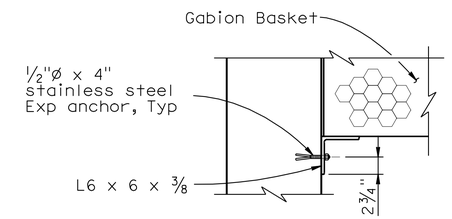


RESTRAINT BLOCK DETAIL

No Scale

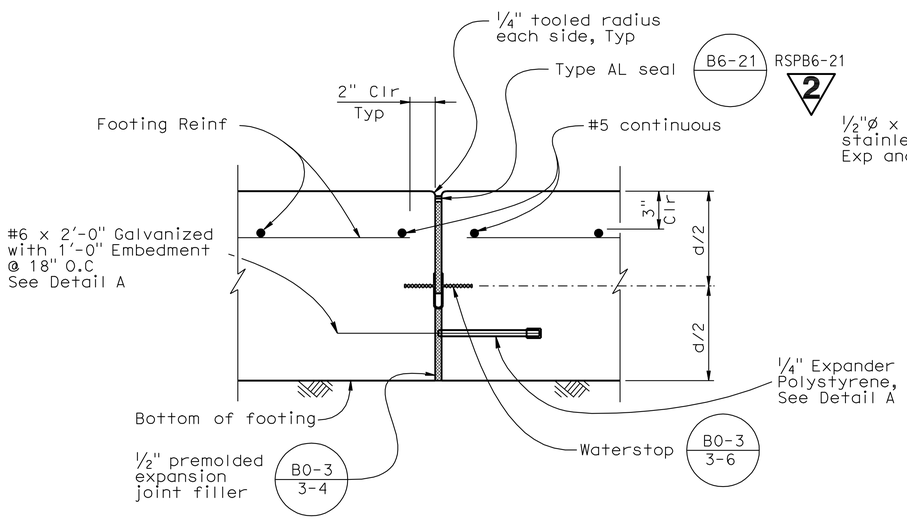
Notes:

1. Stagger splices unless noted otherwise.



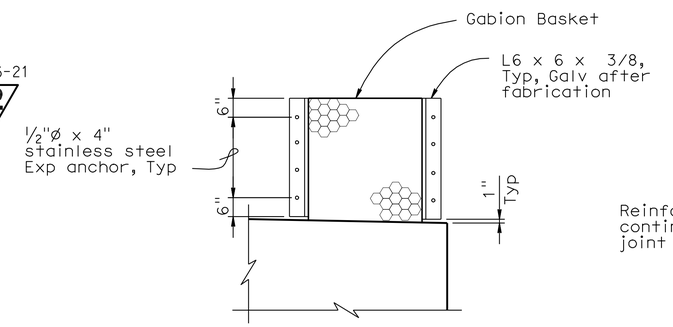
DETAIL 1

No Scale



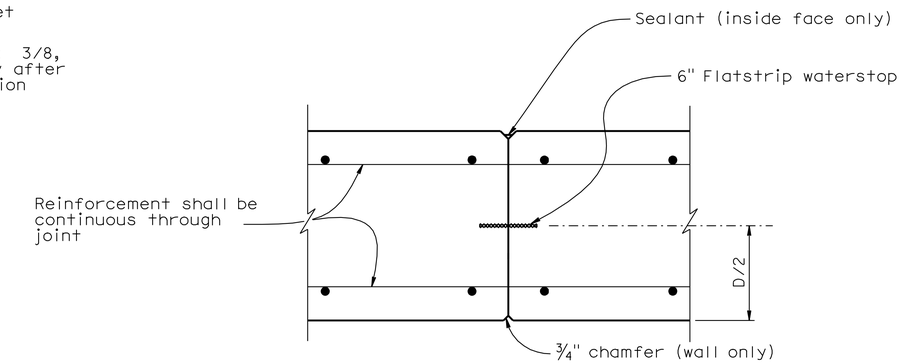
FOOTING EXPANSION JOINT DETAIL

No Scale



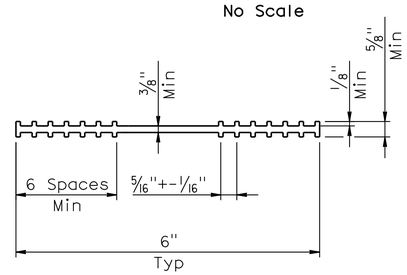
SECTION D - D

No Scale



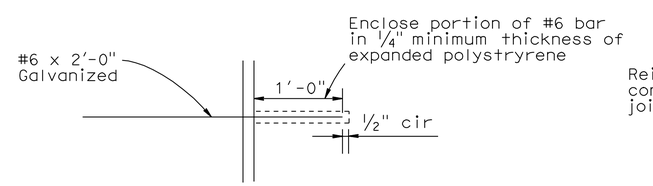
WALL CONSTRUCTION JOINT DETAIL

No Scale



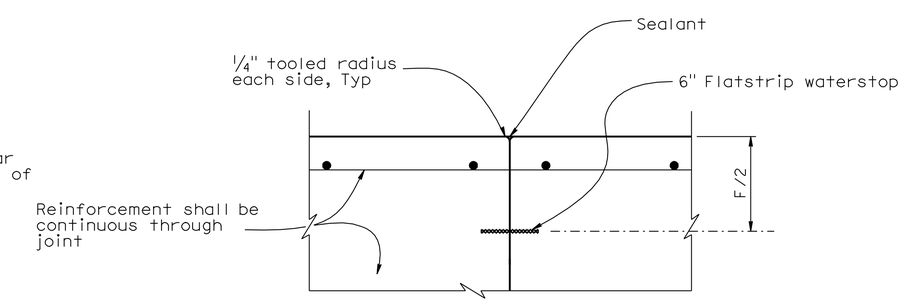
6" FLATSTRIP WATER STOP DETAIL

No Scale



DETAIL A

No Scale



FOOTING CONSTRUCTION JOINT DETAIL

No Scale

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

AUSTIN VAULT SAND FILTER DETAILS No. 2

DRAINAGE DETAILS

NO SCALE

DD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans HYDRAULICS

FUNCTIONAL SUPERVISOR: TIMOTHY B. SOBELMAN
CALCULATED-DESIGNED BY: D. WANG
CHECKED BY: L. HE
REVISED BY
DATE REVISED

LAST REVISION 07-30-12
DATE PLOTTED => 12-APR-2013
TIME PLOTTED => 23:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	113	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

NOTE:

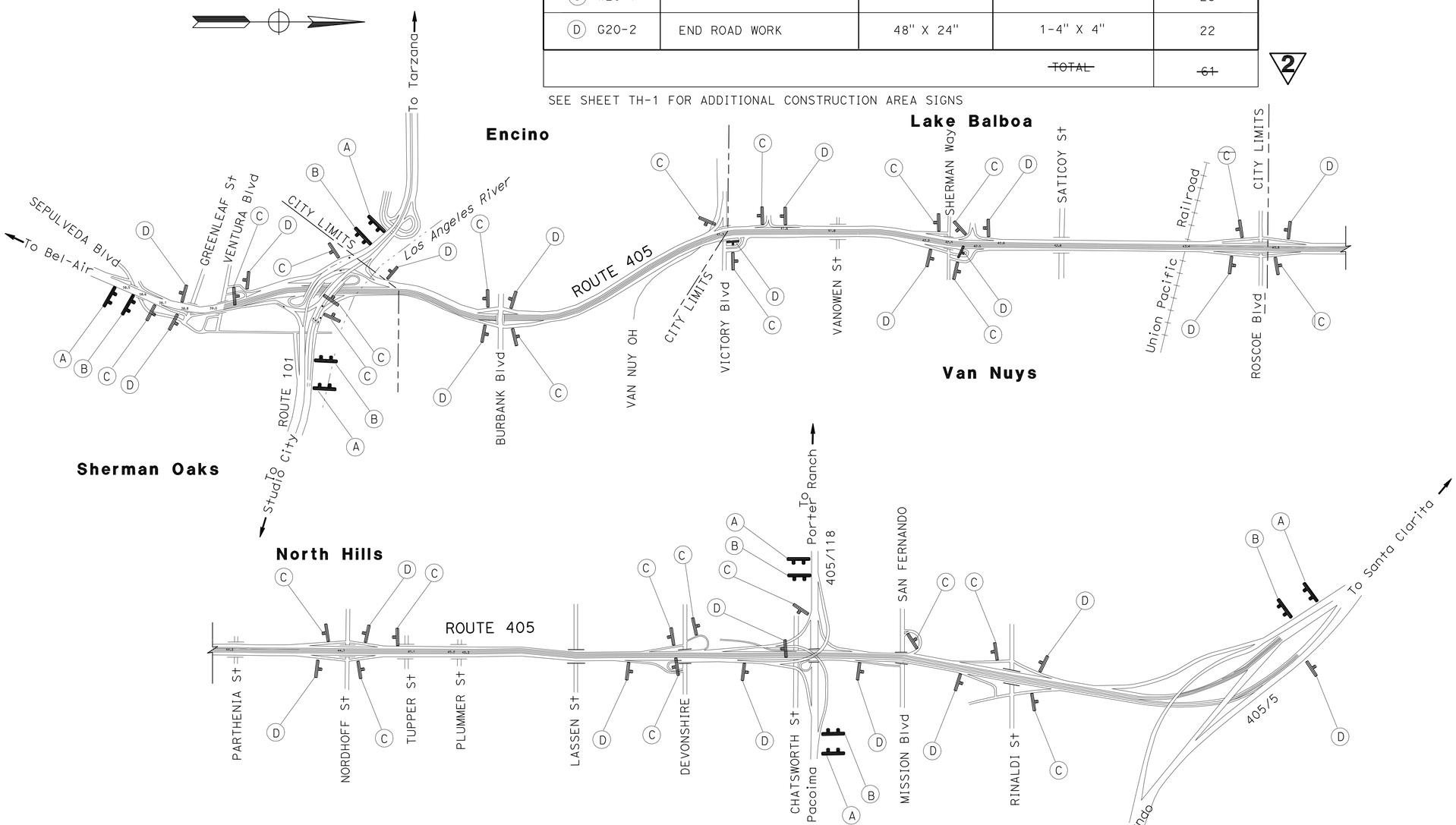
LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS (STATIONARY MOUNTED)

SIGN NUMBER AND CODE	DESCRIPTION	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
(A) C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144" X 60"	2- 4" X 6"	~~7~~6
(B) W20-1	ROAD WORK AHEAD	60"x 60"	2- 6" X 6"	~~7~~6
(C) W20-1	ROAD WORK AHEAD	48" X 48"	1- 6" X 6"	25
(D) G20-2	END ROAD WORK	48" X 24"	1-4" X 4"	22
			~~TOTAL~~	~~61~~

2 2 2

SEE SHEET TH-1 FOR ADDITIONAL CONSTRUCTION AREA SIGNS



2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	126	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

2

PRECAST PRESTRESSED SLABS QUANTITIES

LAYOUTS	ROADWAY EXCAVATION	REMOVE CONCRETE	REPLACE ~~REMOVE~~ UNDERLYING BASE	LEAN CONCRETE BASE RS	PRECAST PRESTRESSED CONCRETE PAVEMENT	SEAL PAVEMENT JOINT	SEAL ISOLATION JOINT	REPAIR SPALLED JOINTS (POLYESTER GROUT)	STATIONS
	CY	CY	CY	CY	CY	LF	LF	SQYD	
L-5	1,480	990	100	1,480	990	611	1,340	40	2174+90 TO 2180+00
	120	80	10	120	80	88	100	4	2182+90 TO 2183+45
L-9	530	360	~~40~~ 80	530	~~360~~ 400	195	600	14	2289+50 TO 2292+50
	510	340	~~40~~ 80	510	~~340~~ 380	194	580	14	2294+65 TO 2297+60
L-10	1,060	710	~~80~~ 150	1,060	~~710~~ 780	381	1,120	29	2307+30 TO 2310+10
	980	660	~~70~~ 200	980	~~660~~ 790	363	1,060	26	2312+55 TO 2315+20
L-12	490	330	~~40~~ 100	490	~~330~~ 390	182	528	13	2332+80 TO 2335+50
L-14	900	610	~~70~~ 135	900	~~610~~ 675	300	1,000	27	2373+00 TO 2378+10
L-15	630	420	~~50~~ 95	630	~~420~~ 465	198	540	21	2412+00 TO 2414+85
L-19	1,010	680	~~70~~ 180	1,010	~~680~~ 790	340	960	30	2464+90 TO 2467+60
	850	570	~~60~~ 135	850	~~570~~ 645	265	600	23	2469+75 TO 2472+00
	1,340	900	~~90~~ 220	1,340	~~900~~ 1030	413	1,250	36	2475+50 TO 2479+30
L-21	1,500	1,010	~~110~~ 155	1,500	~~1,010~~ 1055	449	1,340	40	2490+25 TO 2493+70
	1,480	1,000	100	1,480	1,000	476	1,520	41	2496+40 TO 2500+25
L-22	3,280	2,200	220	3,280	2,200	1,210	4,520	88	2509+80 TO 2521+20
L-23	2,020	1,350	140	2,020	1,350	765	2,720	54	2523+50 TO 2530+40
TOTAL	18,180	12,210	~~1,290~~2,100	18,180	~~12,210~~ 13,020	6,430	19,778	500	

2

ROADSIDE SIGN QUANTITIES

SHEET NUMBER	SIGN NUMBER	SIGN CODE CALIFORNIA	SIGN PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS EA
PD-1	S2	R89-1	22"X10"	1 - 4" X 4"	1
PD-2	S2	R89-1	22"X10"	1 - 4" X 4"	1
				TOTAL	2

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013**

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: PAUL CRISPI
CALCULATED-DESIGNED BY: ANDREW NGUYEN
CHECKED BY: PAUL CRISPI
REVISED BY
DATE REVISED

LAST REVISION 07-30-12 | DATE PLOTTED => 15-APR-2013 | TIME PLOTTED => 10:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	127	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

DOWEL BAR RETROFIT

STATION	N/B	EA
2363+24 TO 2373+00	X	1050
TOTAL		1050

2

ADA CURB RAMPS

LOCATION	REMOVE CONCRETE (Misc)	MINOR CONCRETE (Misc Const)	CURB RAMP DETECTABLE WARNING SURFACE	ROCK BLANKET	REMOVE CL-6 (N)	ADJUST PULL BOX TO GRADE (N)	LOCATION	REMOVE CONCRETE (Misc)	MINOR CONCRETE (Misc Const)	CURB RAMP DETECTABLE WARNING SURFACE	ROCK BLANKET	REMOVE CL-6 (N)	ADJUST PULL BOX TO GRADE
	CY	CY	SQFT	SQYD	LF	EA		CY	CY	SQFT	SQYD	LF	EA
1	5.4	5.9				1	24			13.5			
~~2~~	~~2.6~~	~~3.2~~					25			13.5			
~~3~~	~~4.1~~	~~4.9~~					26			13.5			
4			13.5				27	2.2	2.4		2.0		
5	5.6	6.1					28			13.5			
6	6.1	6.7					29	3.3	3.6				
7	6.9	7.6					30	2.3	2.6				
8			13.5				31			13.5			
9			13.5				32	4.5	4.9				
10	2.0	2.2					33	5.3	5.8				
11	6.3	6.9					34			13.5			
12	2.2	2.4					35			13.5			
~~13~~	~~2.8~~	~~3.0~~					36	1.9	2.1		1.0		
~~14~~	~~2.9~~	~~3.1~~					37	2.4	2.7		3.0		
15	3.4	3.7					38			13.5			
16	5.1	5.6			5		39	2.6	2.9				
17	4.9	5.3					40			13.5			
~~18~~	~~2.4~~	~~2.7~~					41	3.8	4.1				
19	2.9	3.1				2	42			13.5			
20			13.5				43			13.5			
21	2.9	3.1		1.0			44	3.5	3.8				
22	1.8	2.0		1.0			45	2.5	2.8				1
23			13.5				46	4.0	4.3				
SUBTOTAL	55.5 ~~70.3~~	60.6 ~~77.5~~	67.5	2.0	5	3	SUBTOTAL	38.3	42.0	148.5	6.0		1
							FROM Q-4		1.4				
							TOTAL	93.8 ~~108.6~~	104.0 ~~119.2~~	216.0	8.0	5	4

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

GRIND EXISTING CONCRETE PAVEMENT

STATION	SQYD
2083+50 TO 2126+62	54,350
2170+60 TO 2176+08	63,600
2180+50 TO 2183+50	570
2185+50 TO 2210+50	33,360
2211+90 TO 2236+87	33,360
2238+66 TO 2263+50	34,470
2265+00 TO 2292+90	38,650
2294+50 TO 2307+30	16,640
2315+25 TO 2335+90	25,500
2337+30 TO 2362+15	32,600
TOTAL	333,100

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

	TEMPORARY SILT FENCE	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY SOIL BINDER
	LF	EA	EA	SQYD
	1,000	1	48	19,100
TOTAL	1,000	1	48	19,100

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

SUMMARY OF QUANTITIES

Q-2

REVISED BY | DATE REVISED
ANDREW NGUYEN | PAUL CRISPI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: PAUL CRISPI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	128	179

REGISTERED CIVIL ENGINEER 5-30-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ANDREW K. NGUYEN No. C62828 Exp. 6-30-14 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.

ROADWAY QUANTITIES

DESCRIPTION	COLD PLANE ASPHALT CONCRETE PAVEMENT					RUBERIZED HOT MIXED ASPHALT, SUPERPAVE (GAP GRADED)	TACK COAT	REPLACE ASPHALT CONCRETE SURFACING
	RAMPS				MAINLINE SHOULDER			
	SOUTH BOUND		NORTH BOUND					
	ON-RAMP	OFF-RAMP	ON-RAMP	OFF-RAMP				
	SQYD	SQYD	SQYD	SQYD	SQYD	TON	TON	CY
~~VENTURA Blvd UC~~		~~1170~~				~~160~~	~~10~~	~~10~~
Jct 101/405					4340	590	10	30
BURBANK Blvd OC	2380	2030	2450	1430	7700	2160	20	110
VICTORY Bvld UC			2700	770	10100	1840	20	100
HASKELL Blvd	2080	1290				460	10	30
VAN OWEN St UC					4730	640	10	40
SHERMAN WAY UC	3750	2680	2070	3970	4700	2320	20	120
SATICOY St UC					4730	640	10	40
ROSCOE Blvd UC	2260	2110	2300	2490	8340	2320	20	120
PARTHENIA St UC					4520	620	10	40
NORDHOFF St UC	2060	2440	2580	1930	1680	1450	10	80
DEVONSHIRE St UC	8230	1160	7840	2580	14,120	4590	40	230
Rte 405/118 Sep			1580		5740	990	10	50
SAN FERNANDO	2080				3630	1030	10	60
RINALDI St UC	1990	1970	4290	1900	5070	2040	20	110
Jct 405/5 Sep				1740	8150	1100	10	60
SUBTOTAL	24,830	13,680 ~~14,850~~	25,810	16,810	87,550	22,790 ~~22,950~~	~~240~~ 230	~~1230~~ 1220
TOTAL	~~169,850~~ 168,680					22,790 ~~22,950~~	~~240~~ 230	~~1,230~~ 1,220

ROADWAY QUANTITIES

LOCATION	DIRECTION		NUMBER OF SLABS (N) SLAB NUMBER				INDIVIDUAL SLAB REPLACEMENT(RSC)	CRACK TREATMENT
	NB	SB	1	2	3	4	CY	LNMI
PM 39.4 TO 48.6	X							37.5
PM 39.4 TO 48.6		X						37.5
PM 39.4 TO 48.6	X		1	5	13	20	193	
		X	1	4	12	15	157	
TOTAL			71				350	75.0

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

APPROACH SLAB QUANTITIES

LAYOUTS	BRIDGE NAME	BRIDGE NUMBER	AGGREGATE BASE (APPROACH SLAB)	STRUCTURE CONCRETE, APPROACH SLAB (TYPE R)	PAVING NOTCH EXTENSION	JOINT SEAL (MR-1/2")
			CY ~~CF~~	CY	CF	LF ~~FT~~
L-5	WEST VAN NUYS OH	53-1362	13	130	208	271
L-5	VICTORY Blvd UC	53-1443	~~14~~ 13	140	120	153
L-9	RAYMER St OH	53-1348	10	100	122	145
L-10	ROSCOE Blvd UC	53-1409	18	180	215	280
L-12	PARTHENIA St UC	53-1439	5	50	50	72
L-15	LASSEN St UC	53-1498	5	50	60	85
	TOTAL		64	650	775	1006

REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

SUMMARY OF QUANTITIES

Q-3

REVISED BY | DATE REVISED
ANDREW NGUYEN | PAUL CRISPI
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | PAUL CRISPI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	405	39.4/48.6	129	179

REGISTERED CIVIL ENGINEER 6-22-12 DATE

7-30-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ESTHER M. KIM No. 48363 Exp. 6/30/14 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.

ROADWAY QUANTITIES

LOCATION	DIRECTION	SHEET No. 2	PLACE HMA DIKE (TYPE C) *	PLACE HMA DIKE (TYPE F) *	MINOR CONCRETE (MINOR STRUCTURE)	IMPORTED BORROW	MINOR HOT MIX ASPHALT	MINOR CONCRETE (Misc Const) 2	MINOR CONCRETE (CURB)	GUARD RAILING DELINEATOR	METAL BEAM GUARD RAILING (WOOD POST)	(N) BURIED POST END ANCHOR	TRANSITION RAILING (TYPE WB)	TRANSITION RAILING (TYPE SP)	ALTERNATIVE FLARED TERMINAL SYSTEM	ALTERNATIVE IN-LINE TERMINAL SYSTEM	END ANCHOR ASSEMBLY (TYPE SFT)	VEGETATION CONTROL (MINOR CONCRETE)	REMOVE METAL BEAM GUARD RAILING	REMOVE ASPHALT CONCRETE DIKE	REMOVE CONCRETE CURB	END CAP
			LF	LF	CY	CY	TON	CY	CY	EA	LF	EA	EA	EA	EA	EA	EA	SQYD	LF	LF	LF	EA
1	SB	C-42			0.7					10	212.5		1			1			287.5			
2	SB	C-42			2.2	5.0	2.4	0.3		2	50.0		1			1		74.2	62.5			
3	SB	C-23								2	50.0			1		1		74.2	125.0			1
4	NB	C-23						1.1	10.5	15	362.5					1	1		400.0		449.5	
5	NB	C-34							5.8	10	212.5					1	1	23.1	262.5		293.5	
6	NB	C-34	65.5	28.0	1.9		0.9			2			1		1				62.5	103.5		
7	SB	C-45	76.0	25.0	5.5		0.9			2			1		1			9.7	62.5	131.0		
8	SB	C-45	68.5	75.0	1.8		1.5			2	50.0		1		1			74.2	50.0	153.5		
9	SB	C-56	68.5	87.5			1.7			2	62.5			1	1			74.2	125.0	156.0		1
10	NB	C-56			2.1					2	87.5	1	1					16.3	62.5			
TOTAL			278.5	215.5	14.2	5.0	7.4	1.4** 2	16.3	49	1087.5		6	2	4	5	2	345.9	1500.0	544.0	743.0	2

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
(*) INCLUDES HMA DIKE TRANSITION.
2 (**) SEE TOTAL ON Q-2

2 REVISED PER ADDENDUM No. 2 DATED APRIL 15, 2013

SUMMARY OF QUANTITIES

Q-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

RICHARD KHAW | REVISED BY
ESTHER M. KIM | DATE REVISED
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY

F:\CALTRANSD7\Projects\FY12-13\2-Paul_Peter_252001\Addendum1\ADDENDUM\forprojectdir_4-12-13c1\725200pa004.dgn

LAST REVISION 07-30-12 | DATE PLOTTED => 12-APR-2013 | TIME PLOTTED => 23:50