

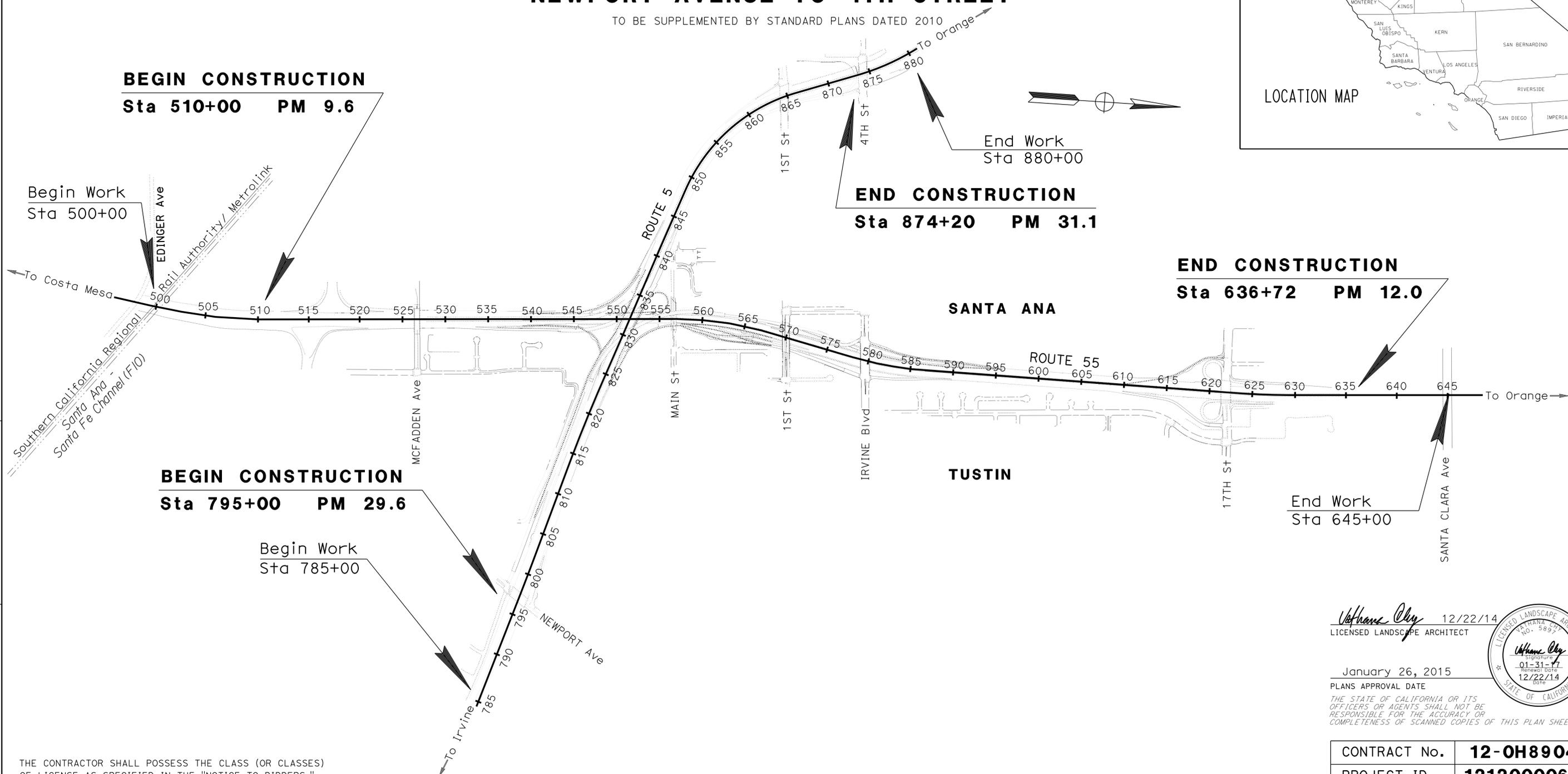
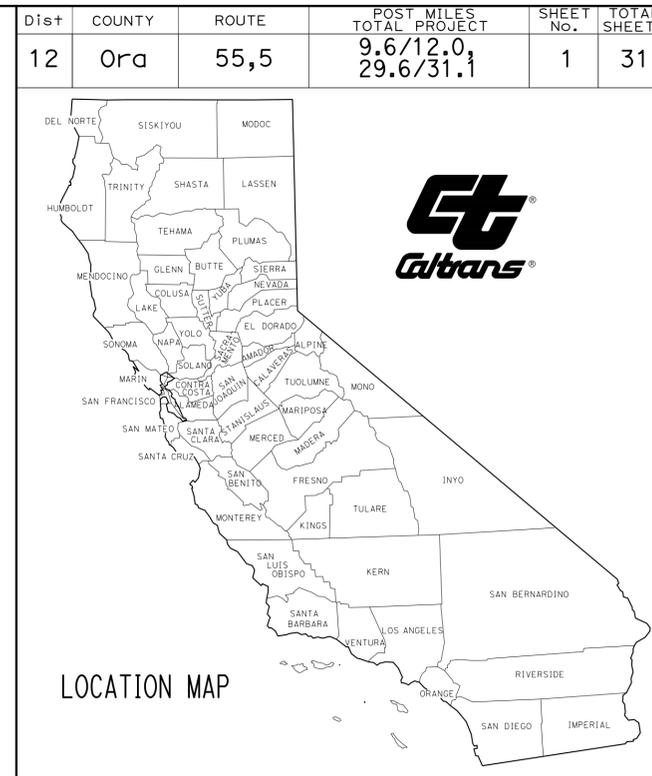
INDEX OF PLANS

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

STATE OF CALIFORNIA ACNHP-X059(060)E  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN ORANGE COUNTY**  
**IN SANTA ANA AND TUSTIN**  
**ON ROUTE 55 FROM**  
**MCFADDEN AVENUE TO 17TH STREET**  
**AND ON ROUTE 5 FROM**  
**NEWPORT AVENUE TO 4TH STREET**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER  
**ERIC DICKSON**  
 SENIOR LANDSCAPE ARCHITECT  
**ERIC DICKSON**

*William Oby* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT



January 26, 2015  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	<b>12-OH8904</b>
PROJECT ID	<b>1212000063</b>

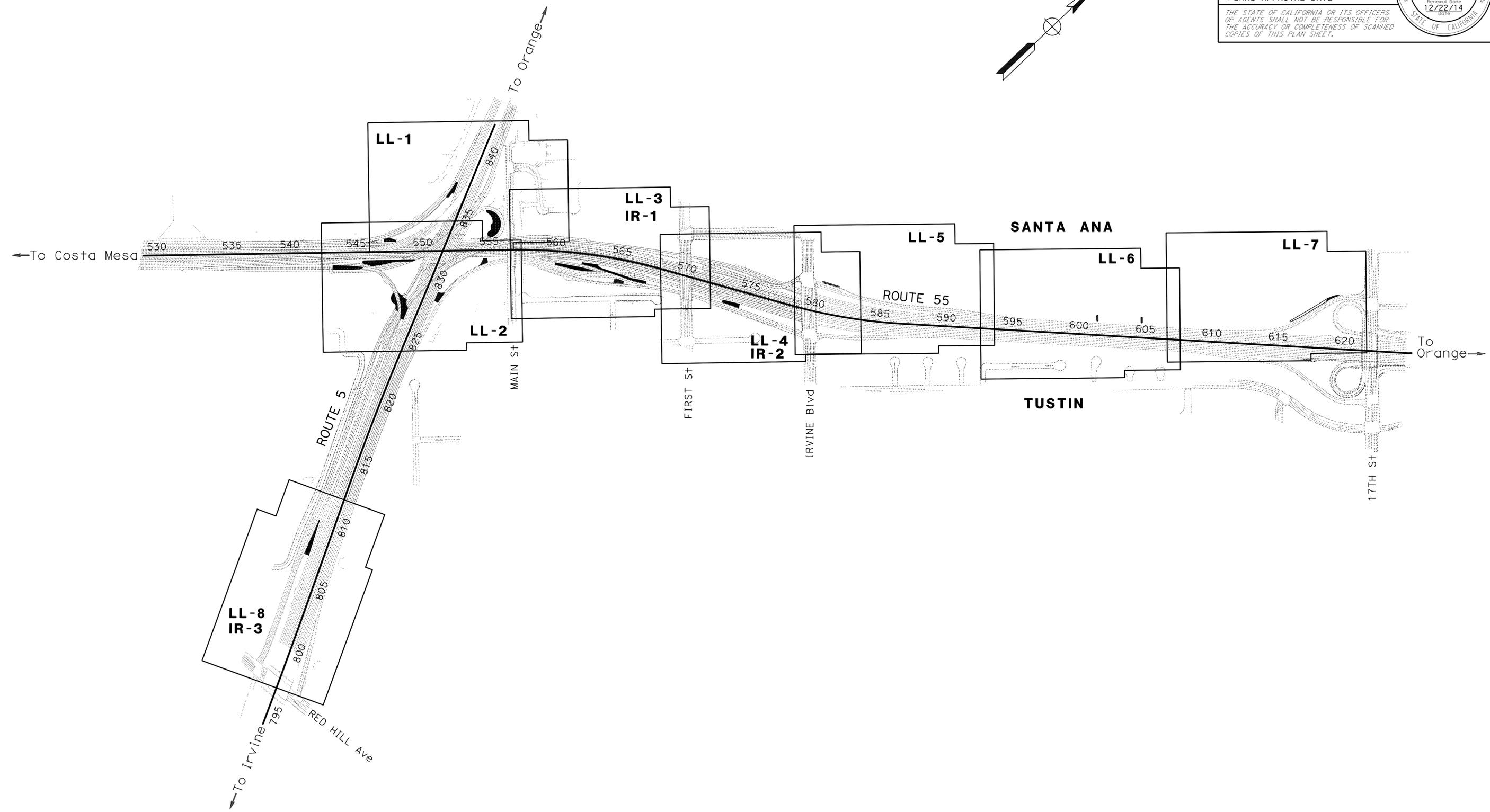
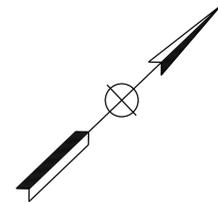
DATE PLOTTED => 18-MAR-2015  
 TIME PLOTTED => 08:55  
 LAST REVISION 03-18-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	2	31

*Athana Oly* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

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.

LICENSED LANDSCAPE ARCHITECT  
 ATHANA OLY  
 NO. 589  
 Signature: *Athana Oly*  
 01-31-17  
 Renewal Date: 12/22/14  
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	LANDON MARES	REVISOR
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	ERIC DICKSON	CHECKED BY	VATHANA CHY	DATE REVISOR

**KEY MAP AND LINE INDEX**  
NO SCALE  
**K-1**

LAST REVISION    DATE PLOTTED => 18-MAR-2015  
 11-17-14    TIME PLOTTED => 08:55

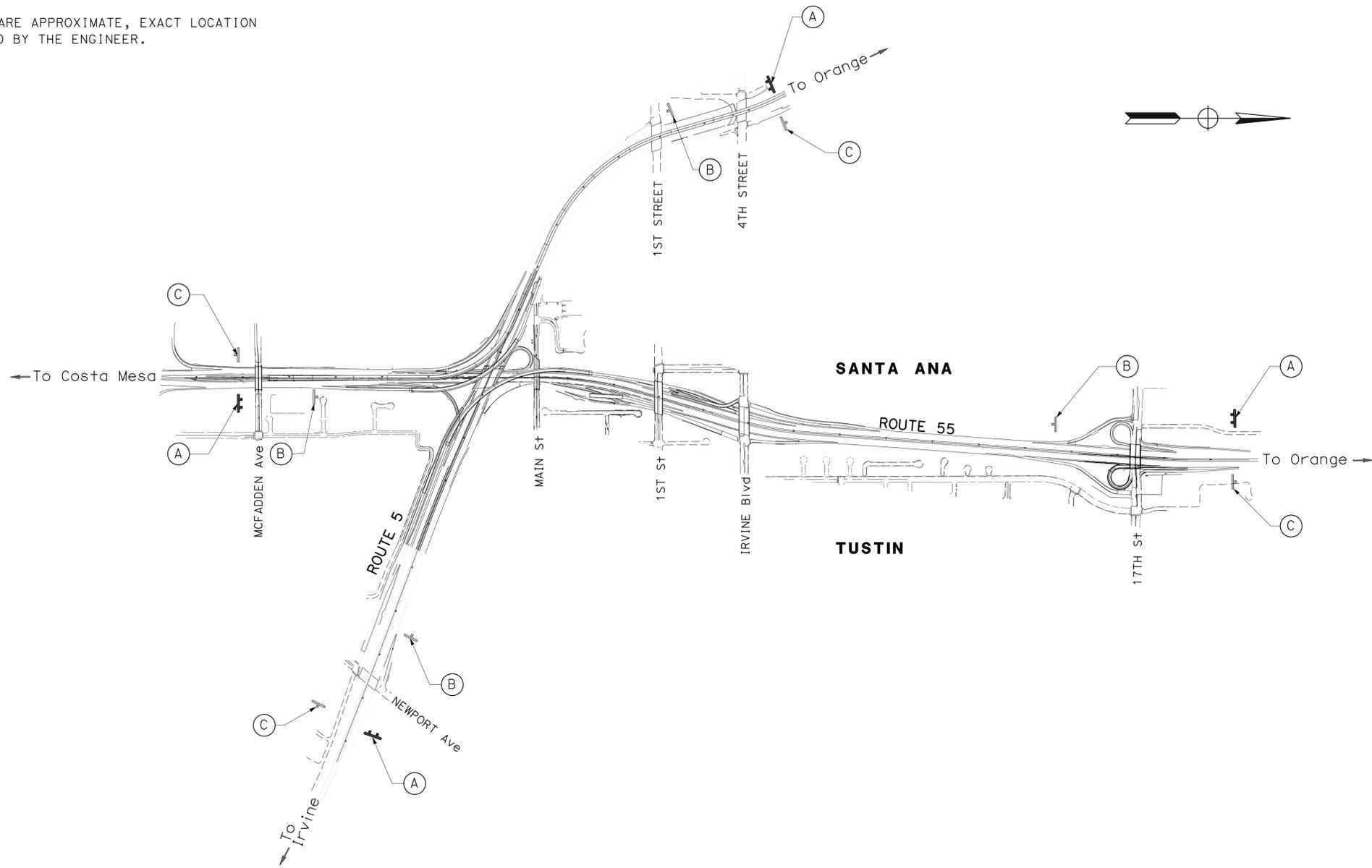
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55, 5	9.6/12.0 29.6/31.1	3	31

*Bang O. Hua* 12/22/14  
 REGISTERED CIVIL ENGINEER DATE  
 01/26/15  
 PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER  
 BANG HUA  
 No. C71273  
 Exp. 12-31-15  
 CIVIL  
 STATE OF CALIFORNIA

**NOTE:**  
SIGN LOCATIONS ARE APPROXIMATE, EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.



- LEGEND:**
- CONSTRUCTION AREA SIGN-ONE (1) POST
  - CONSTRUCTION AREA SIGN-TWO (2) POST
  - CONSTRUCTION AREA SIGNS
  - DIRECTION OF TRAVEL

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE	PANEL SIZE (IN)	SIGN MESSAGE	No. OF POSTS AND	No. OF SIGNS (EA)
(A)	W20-1	60 x 60	ROAD WORK AHEAD	2- 6 x 6	4
(B)	W20-1	48 x 48	ROAD WORK AHEAD	1- 6 x 6	4
(C)	G20-2	48 x 24	END ROAD WORK	1- 6 x 6	4

**CONSTRUCTION AREA SIGNS**

NO SCALE **CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: KAMRAN MAZHAR  
 DESIGNED BY: RICHARD DANG  
 CHECKED BY: BANG HUA  
 REVISIONS:

LAST REVISION DATE PLOTTED => 18-MAR-2015  
 11-17-14 TIME PLOTTED => 08:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55,5	9.6/12.0 29.6/31.1	4	31

REGISTERED CIVIL ENGINEER DATE 12/22/14  
 JOSEPH H. Y. LEE  
 No. C59058  
 Exp. 06/30/15  
 CIVIL  
 PLANS APPROVAL DATE 01/26/15  
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:**

- SIGN LOCATIONS ARE APPROXIMATE, EXACT LOCATION TO BE DETERMINED BY THE ENGINEER
- SIGNS SHALL HAVE BLACK LETTERING AND BORDERS WITH AN ORANGE BACKGROUND

**LEGEND:**

- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION DETOUR SIGN
- DIRECTION OF TRAFFIC
- CLOSURE ZONE
- ONE-POST SIGN

**CLOSURE:**

NB ROUTE 5 TO SB ROUTE 55 LOOP CONNECTOR

**DETOUR:**

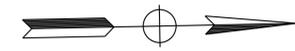
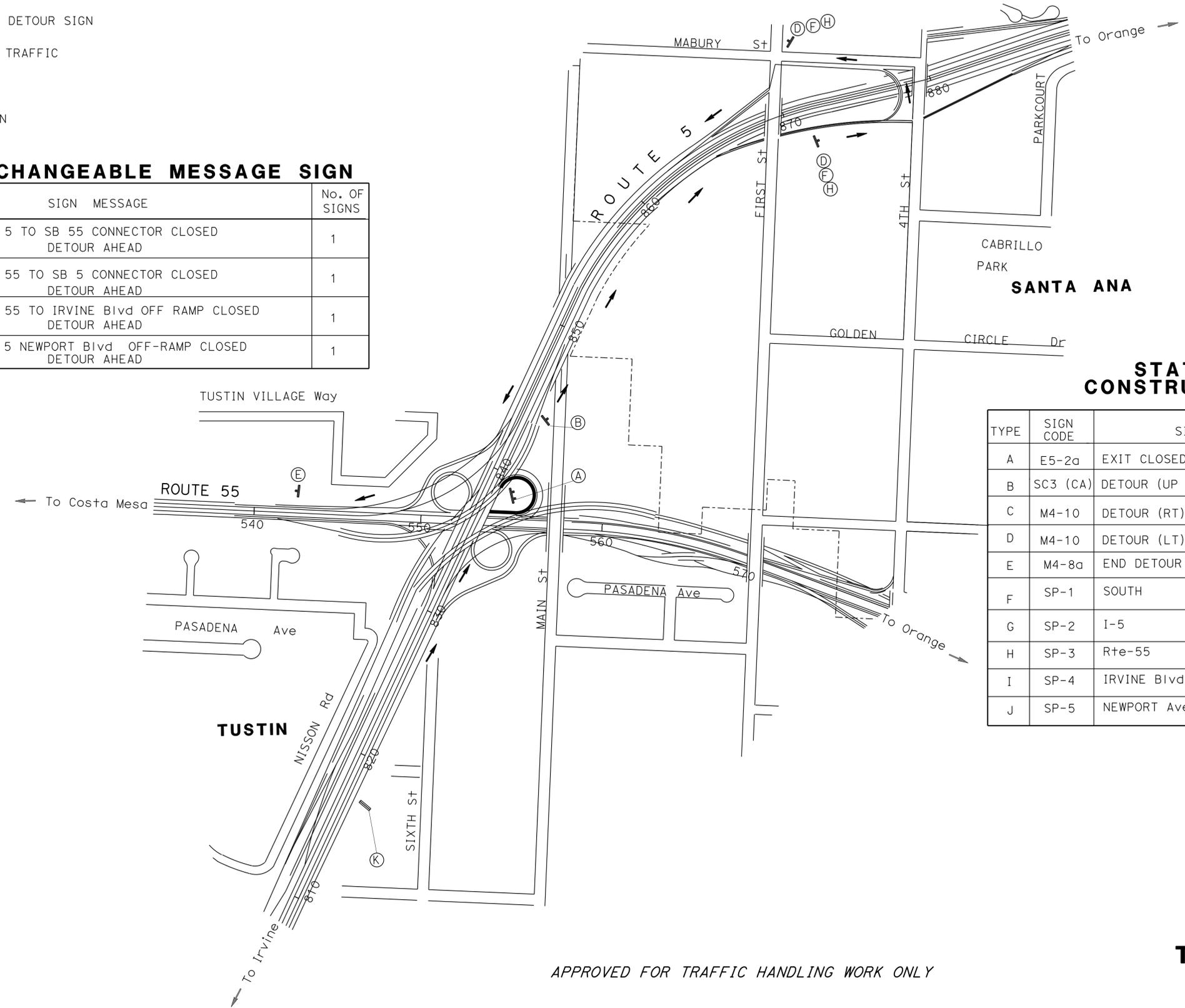
NB ROUTE 5 TO FIRST ST OFF RAMP, TO SB ROUTE 5, TO SB ROUTE 55

**PORTABLE CHANGEABLE MESSAGE SIGN**

TYPE	SIGN CODE	SIGN MESSAGE	No. OF SIGNS
K	PCMS	NB 5 TO SB 55 CONNECTOR CLOSED DETOUR AHEAD	1
L	PCMS	NB 55 TO SB 5 CONNECTOR CLOSED DETOUR AHEAD	1
M	PCMS	NB 55 TO IRVINE Blvd OFF RAMP CLOSED DETOUR AHEAD	1
N	PCMS	SB 5 NEWPORT Blvd OFF-RAMP CLOSED DETOUR AHEAD	1

**STATIONARY MOUNTED CONSTRUCTION DETOUR SIGNS**

TYPE	SIGN CODE	SIGN MESSAGE	PANEL SIZE (in)	No. OF POST & SIZE (in)	No. OF SIGNS
A	E5-2a	EXIT CLOSED	48 x 36	2 - 4 x 6	4
B	SC3 (CA)	DETOUR (UP ARROW)	48 x 18	1 - 4 x 4	4
C	M4-10	DETOUR (RT)	48 x 18	1 - 4 x 4	5
D	M4-10	DETOUR (LT)	48 x 18	1 - 4 x 4	6
E	M4-8a	END DETOUR	24 x 18	1 - 4 x 4	4
F	SP-1	SOUTH	20 x 10		4
G	SP-2	I-5	20 x 20		2
H	SP-3	Rte-55	20 x 20		2
I	SP-4	IRVINE Blvd	48 x 24		4
J	SP-5	NEWPORT Ave	48 x 24		3



APPROVED FOR TRAFFIC HANDLING WORK ONLY

**TRAFFIC HANDLING PLAN**  
NO SCALE **TH-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN  
 Caltrans  
 FUNCTIONAL SUPERVISOR: MILI LIM STAMATION  
 CALCULATED/DESIGNED BY: JOSEPH LEE  
 CHECKED BY: NYCHOLE KHONG  
 REVISIONS: REVISOR: DATE  
 REVISOR: DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55,5	9.6/12.0 29.6/31.1	5	31

12/22/14  
 REGISTERED CIVIL ENGINEER DATE  
 01/26/15  
 PLANS APPROVAL DATE  
 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.

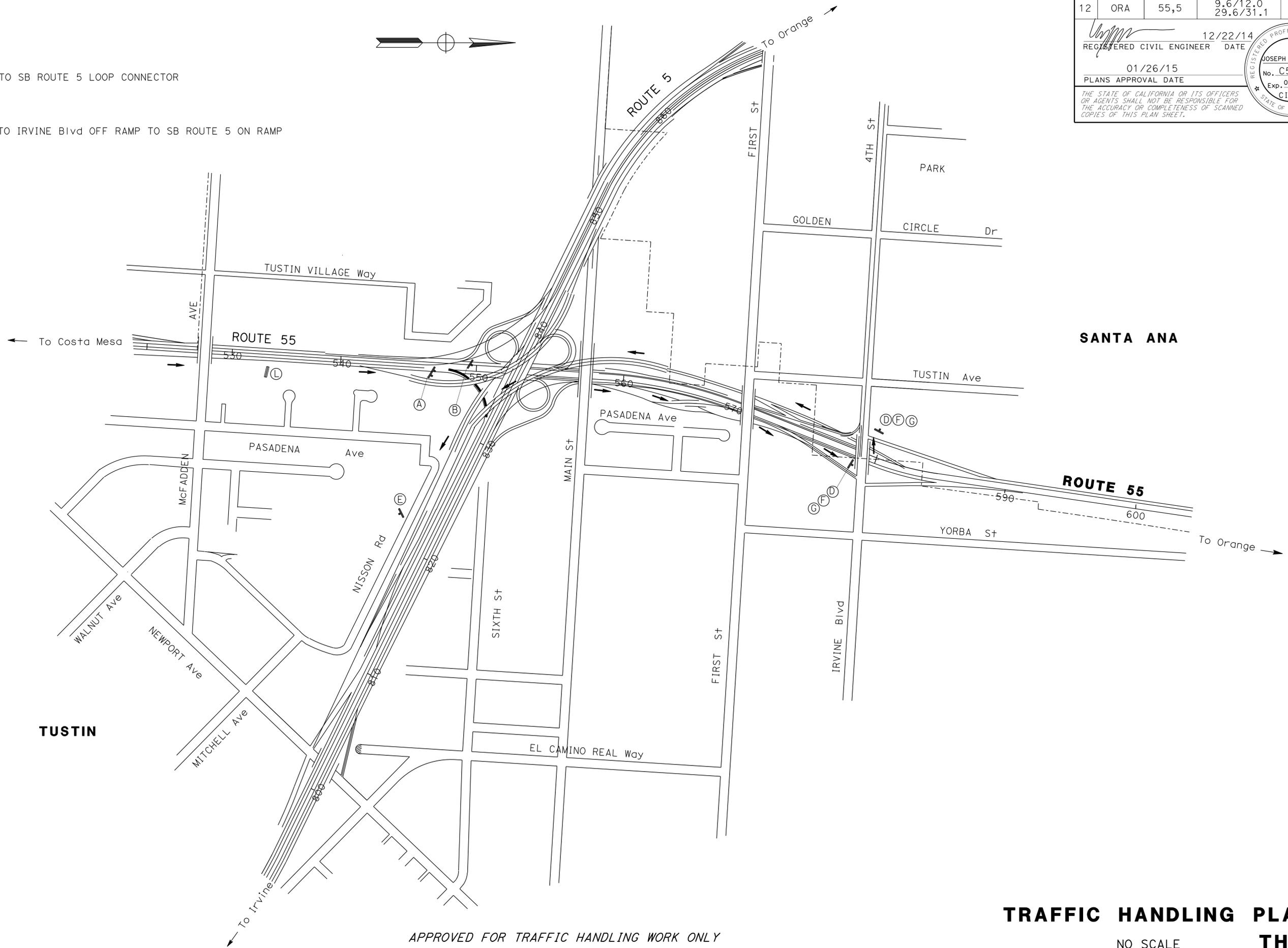
REGISTERED PROFESSIONAL ENGINEER  
 JOSEPH H.Y. LEE  
 No. C59058  
 Exp. 06/30/15  
 CIVIL  
 STATE OF CALIFORNIA

**CLOSURE:**

NB ROUTE 55 TO SB ROUTE 5 LOOP CONNECTOR

**DETOUR:**

NB ROUTE 55 TO IRVINE Blvd OFF RAMP TO SB ROUTE 5 ON RAMP



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	NYCHOLE KHONG	REVISOR BY
Caltrans		MILLIM STAMATION	CHECKED BY	JOSEPH LEE	DATE REVISED

APPROVED FOR TRAFFIC HANDLING WORK ONLY

**TRAFFIC HANDLING PLAN**  
NO SCALE **TH-2**

LAST REVISION DATE PLOTTED => 18-MAR-2015  
 10-29-14 TIME PLOTTED => 08:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55,5	9.6/12.0 29.6/31.1	6	31

<i>[Signature]</i>	12/22/14
REGISTERED CIVIL ENGINEER	DATE
01/26/15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
JOSEPH H.Y. LEE
No. C59058
Exp. 06/30/15
CIVIL
STATE OF CALIFORNIA

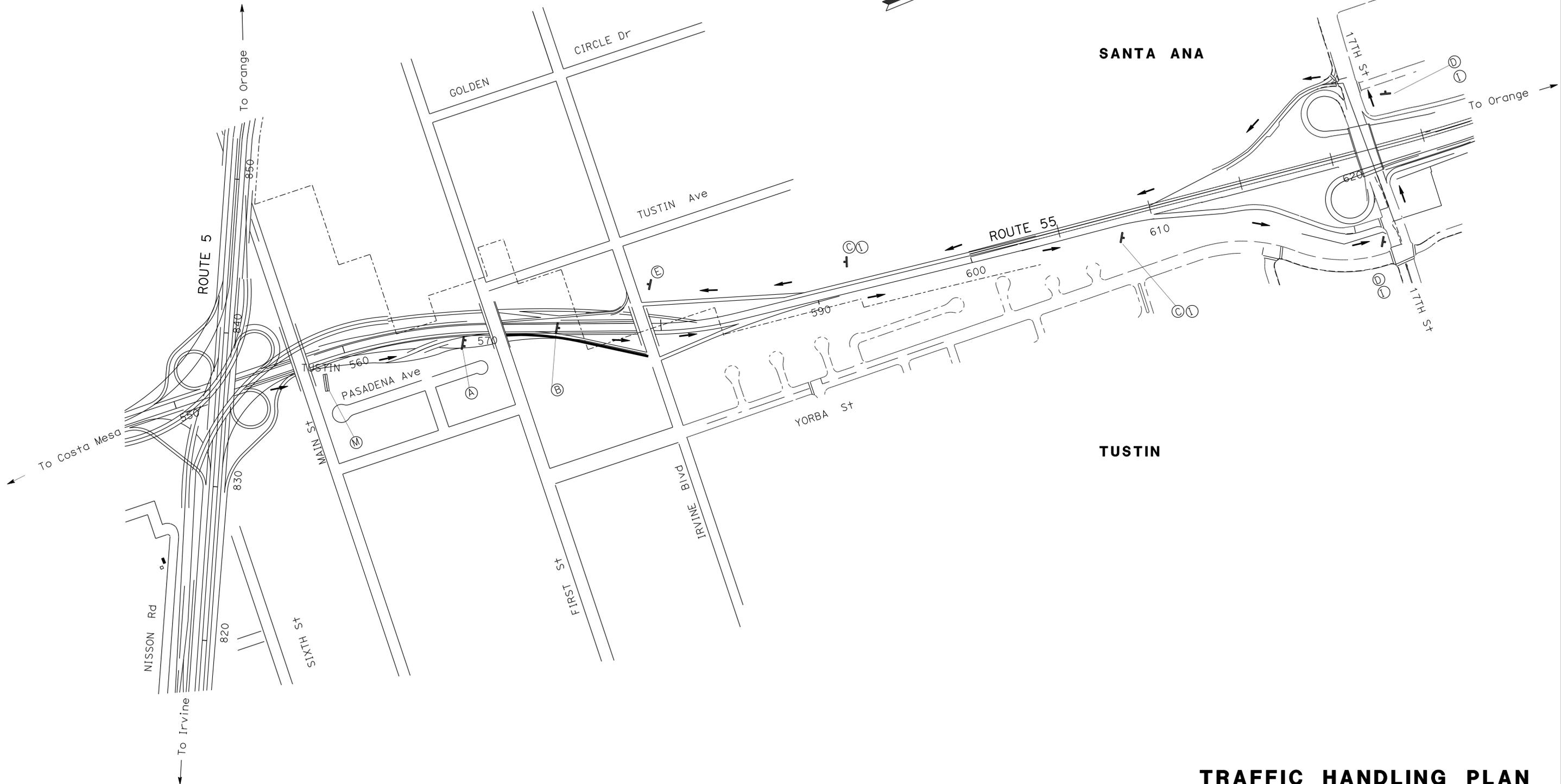
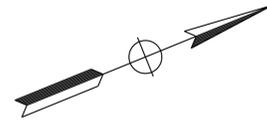
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**CLOSURE:**

NB ROUTE 55 OFF RAMP TO IRVINE Blvd/4TH St

**DETOUR:**

NB ROUTE 55 TO E. 17th St TO SB ROUTE 55 TO IRVINE Blvd/4TH St



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	MILI LIM STAMATION
CALCULATED/DESIGNED BY	CHECKED BY
NYCHOLE KHONG	JOSEPH LEE
REVISOR BY	DATE REVISED

APPROVED FOR TRAFFIC HANDLING WORK ONLY

**TRAFFIC HANDLING PLAN**

NO SCALE

**TH-3**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55,5	9.6/12.0 29.6/31.1	7	31

12/22/14  
 REGISTERED CIVIL ENGINEER DATE  
 01/26/15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 JOSEPH H.Y. LEE  
 No. C59058  
 Exp. 06/30/15  
 CIVIL  
 STATE OF CALIFORNIA

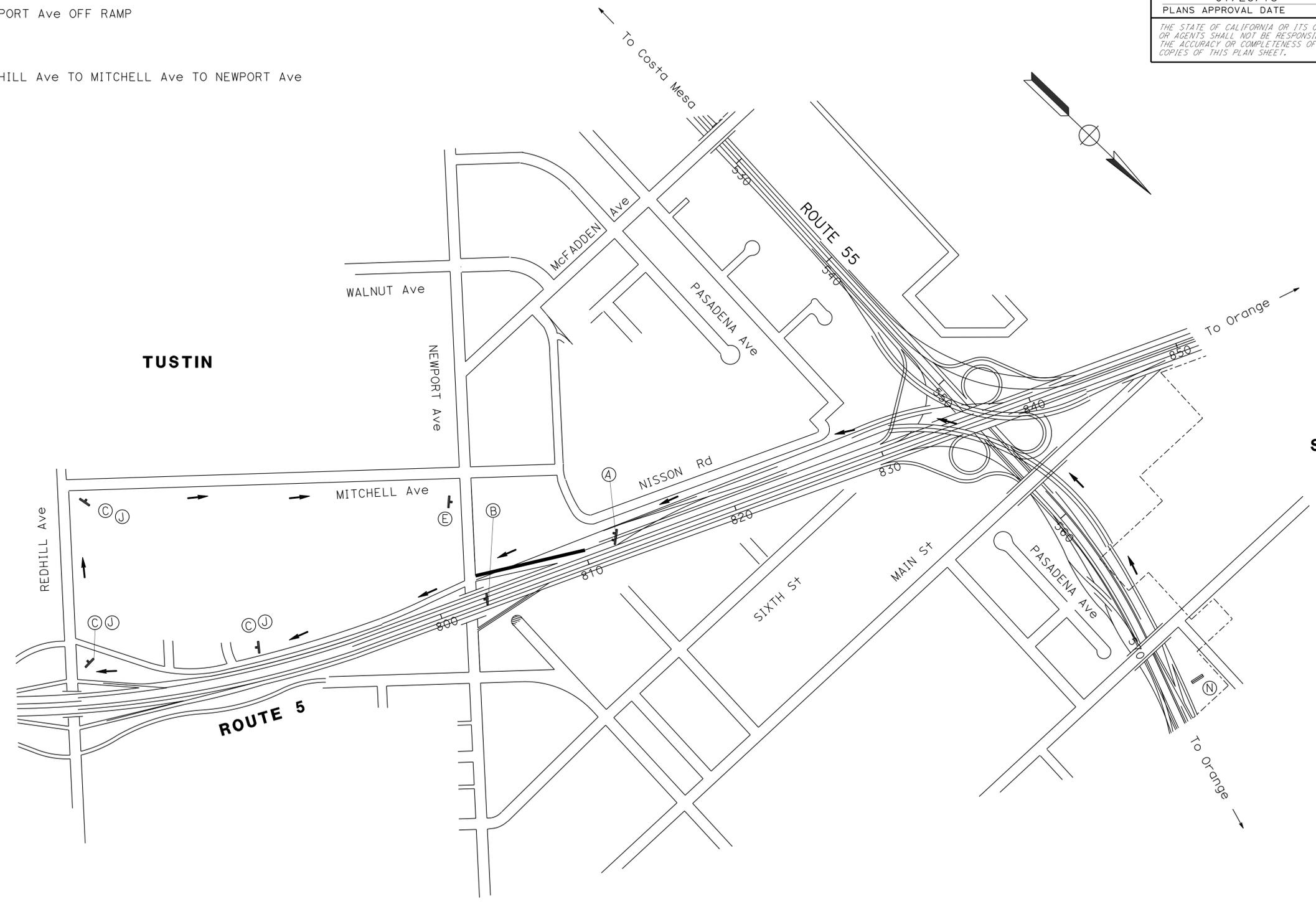
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**CLOSURE:**

SB ROUTE 55 TO SB ROUTE 5 TO NEWPORT Ave OFF RAMP

**DETOUR:**

SB ROUTE 55 TO SB ROUTE 5 TO REDHILL Ave TO MITCHELL Ave TO NEWPORT Ave



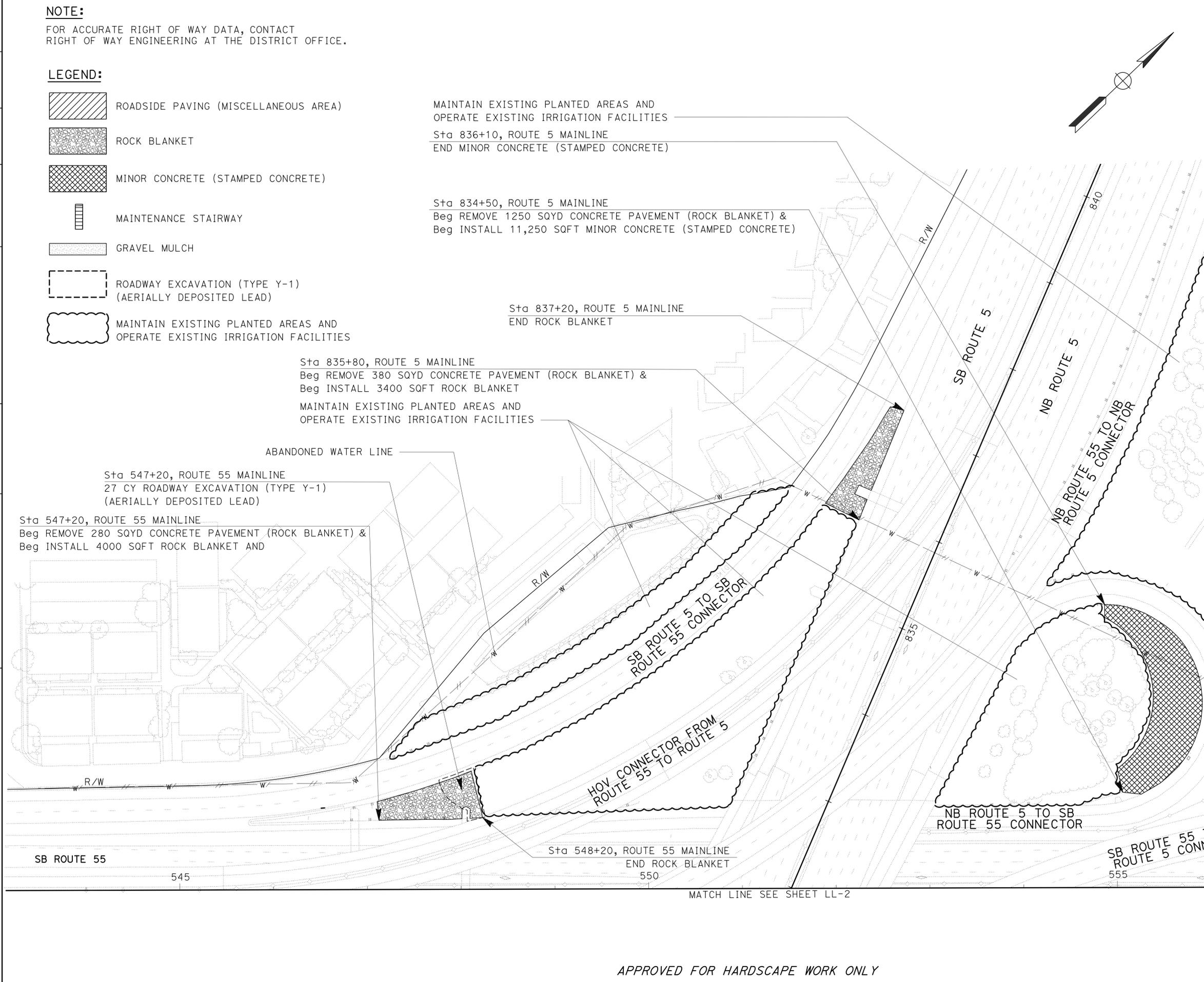
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	MILI LIM STAMATION
CALCULATED/DESIGNED BY	CHECKED BY
NYCHOLE KHONG	JOSEPH LEE
REVISED BY	DATE REVISED

APPROVED FOR TRAFFIC HANDLING WORK ONLY

**TRAFFIC HANDLING PLAN**

NO SCALE **TH-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	8	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE  
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.

- LEGEND:**
- ROADSIDE PAVING (MISCELLANEOUS AREA)
  - ROCK BLANKET
  - MINOR CONCRETE (STAMPED CONCRETE)
  - MAINTENANCE STAIRWAY
  - GRAVEL MULCH
  - ROADWAY EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)
  - MAINTAIN EXISTING PLANTED AREAS AND OPERATE EXISTING IRRIGATION FACILITIES

MAINTAIN EXISTING PLANTED AREAS AND OPERATE EXISTING IRRIGATION FACILITIES  
 Sta 836+10, ROUTE 5 MAINLINE  
 END MINOR CONCRETE (STAMPED CONCRETE)

Sta 834+50, ROUTE 5 MAINLINE  
 Beg REMOVE 1250 SQYD CONCRETE PAVEMENT (ROCK BLANKET) &  
 Beg INSTALL 11,250 SQFT MINOR CONCRETE (STAMPED CONCRETE)

Sta 837+20, ROUTE 5 MAINLINE  
 END ROCK BLANKET

Sta 835+80, ROUTE 5 MAINLINE  
 Beg REMOVE 380 SQYD CONCRETE PAVEMENT (ROCK BLANKET) &  
 Beg INSTALL 3400 SQFT ROCK BLANKET

MAINTAIN EXISTING PLANTED AREAS AND OPERATE EXISTING IRRIGATION FACILITIES

Sta 547+20, ROUTE 55 MAINLINE  
 27 CY ROADWAY EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)

Sta 547+20, ROUTE 55 MAINLINE  
 Beg REMOVE 280 SQYD CONCRETE PAVEMENT (ROCK BLANKET) &  
 Beg INSTALL 4000 SQFT ROCK BLANKET AND

Sta 548+20, ROUTE 55 MAINLINE  
 END ROCK BLANKET

**LANDSCAPE LAYOUT**  
 SCALE: 1" = 50' **LL-1**

APPROVED FOR HARDSCAPE WORK ONLY

LAST REVISION DATE PLOTTED => 18-MAR-2015 11-03-14 TIME PLOTTED => 08:56

**NOTE:**

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

Sta 548+50, ROUTE 55 MAINLINE  
 Beg 42 SQYD ROADSIDE PAVING (MISCELLANEOUS AREA) AND 7 CY ROADWAY EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)

Sta 547+90, ROUTE 55 MAINLINE  
 END MINOR CONCRETE (STAMPED CONCRETE)

Sta 545+50, ROUTE 55 MAINLINE  
 Beg REMOVE 810 SQYD CONCRETE PAVEMENT (ROCK BLANKET) & Beg INSTALL 7290 SQFT MINOR CONCRETE (STAMPED CONCRETE)

Sta 549+00, ROUTE 55 MAINLINE  
 END ROADSIDE PAVING (MISCELLANEOUS AREA)

Sta 544+90, ROUTE 55 MAINLINE  
 END MINOR CONCRETE (STAMPED CONCRETE)

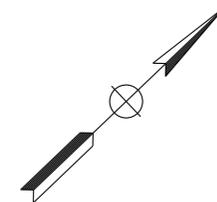
Sta 544+20, ROUTE 55 MAINLINE  
 Beg REMOVE 320 SQYD CONCRETE PAVEMENT (ROCK BLANKET) AND Beg INSTALL 2880 SQFT MINOR CONCRETE (STAMPED CONCRETE)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	9	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT

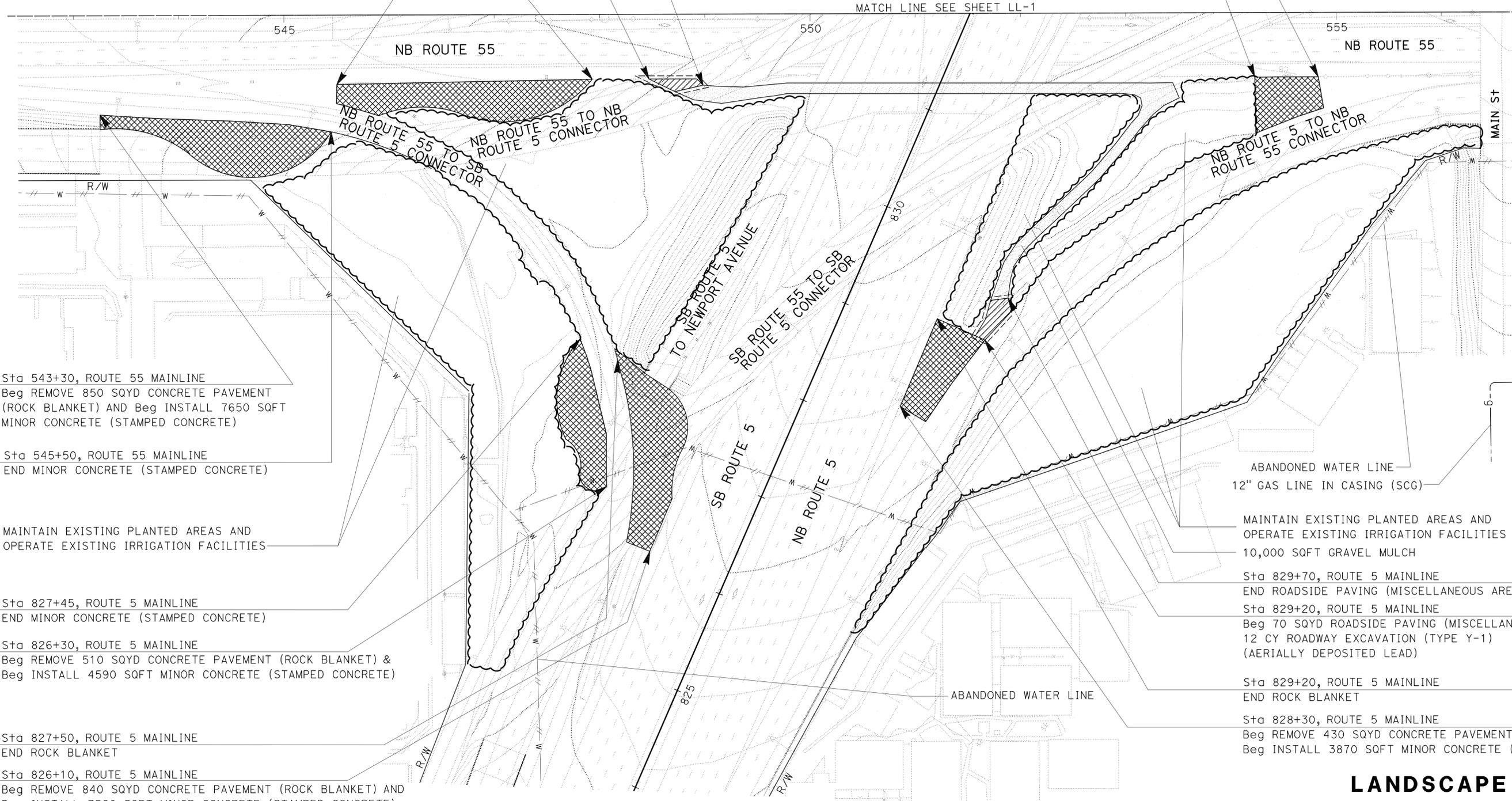
01/26/15  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON  
 CHECKED BY: VATHANA CHY  
 DESIGNED BY: LONDON MARES  
 REVISIONS: (Grid with 'x' marks)



Sta 543+30, ROUTE 55 MAINLINE  
 Beg REMOVE 850 SQYD CONCRETE PAVEMENT (ROCK BLANKET) AND Beg INSTALL 7650 SQFT MINOR CONCRETE (STAMPED CONCRETE)

Sta 545+50, ROUTE 55 MAINLINE  
 END MINOR CONCRETE (STAMPED CONCRETE)

MAINTAIN EXISTING PLANTED AREAS AND OPERATE EXISTING IRRIGATION FACILITIES

Sta 827+45, ROUTE 5 MAINLINE  
 END MINOR CONCRETE (STAMPED CONCRETE)

Sta 826+30, ROUTE 5 MAINLINE  
 Beg REMOVE 510 SQYD CONCRETE PAVEMENT (ROCK BLANKET) & Beg INSTALL 4590 SQFT MINOR CONCRETE (STAMPED CONCRETE)

Sta 827+50, ROUTE 5 MAINLINE  
 END ROCK BLANKET

Sta 826+10, ROUTE 5 MAINLINE  
 Beg REMOVE 840 SQYD CONCRETE PAVEMENT (ROCK BLANKET) AND Beg INSTALL 7560 SQFT MINOR CONCRETE (STAMPED CONCRETE)

ABANDONED WATER LINE  
 12" GAS LINE IN CASING (SCG)

MAINTAIN EXISTING PLANTED AREAS AND OPERATE EXISTING IRRIGATION FACILITIES  
 10,000 SQFT GRAVEL MULCH

Sta 829+70, ROUTE 5 MAINLINE  
 END ROADSIDE PAVING (MISCELLANEOUS AREA)  
 Sta 829+20, ROUTE 5 MAINLINE  
 Beg 70 SQYD ROADSIDE PAVING (MISCELLANEOUS AREA) AND 12 CY ROADWAY EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)

Sta 829+20, ROUTE 5 MAINLINE  
 END ROCK BLANKET

Sta 828+30, ROUTE 5 MAINLINE  
 Beg REMOVE 430 SQYD CONCRETE PAVEMENT (ROCK BLANKET) AND Beg INSTALL 3870 SQFT MINOR CONCRETE (STAMPED CONCRETE)

APPROVED FOR HARDSCAPE WORK ONLY

**LANDSCAPE LAYOUT**  
 SCALE: 1" = 50' **LL-2**

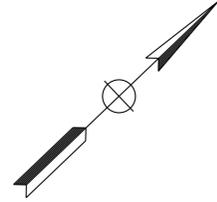
**NOTE:**

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

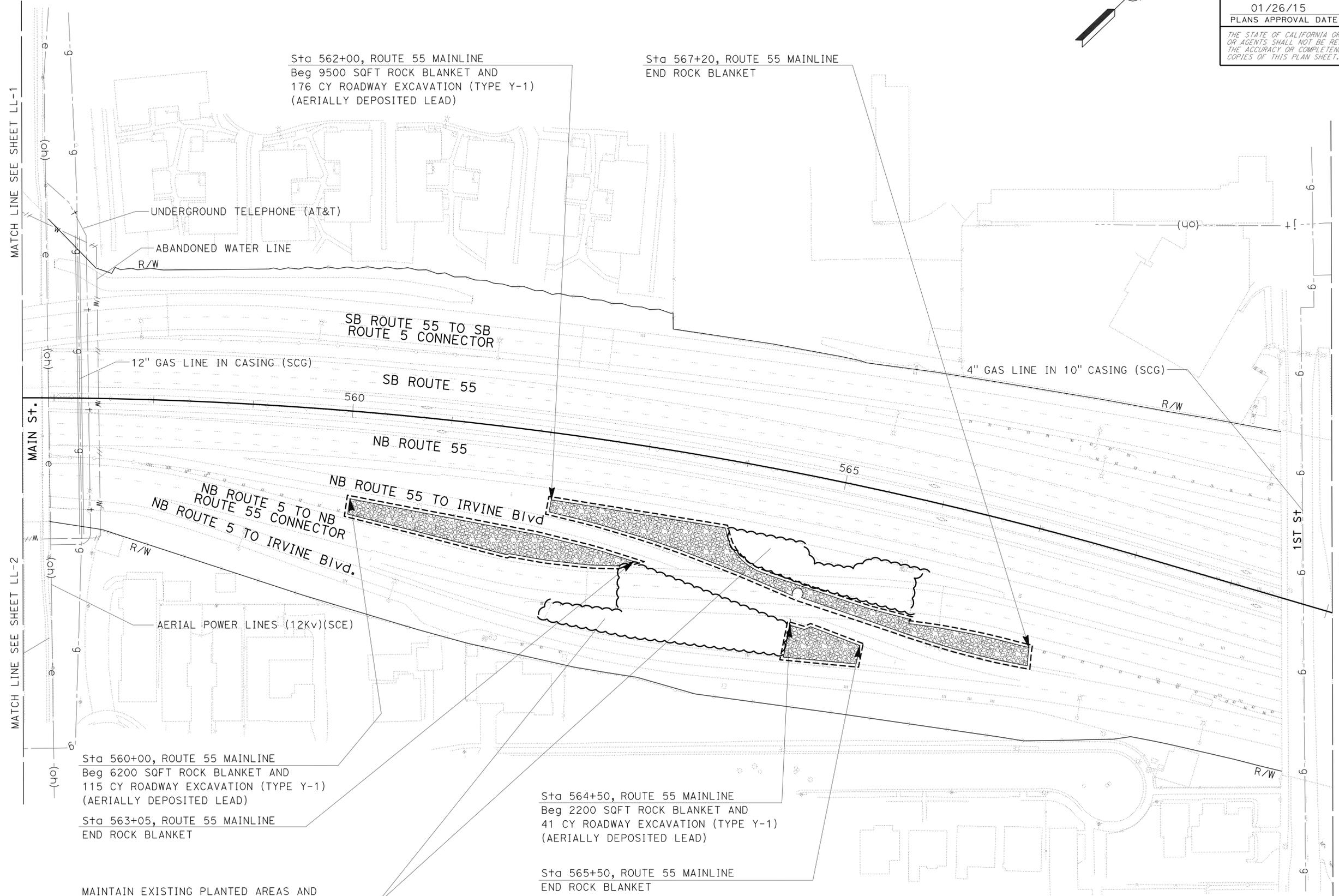
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	10	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF SCANNED  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 ERIC DICKSON  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 LANDON MARES  
 VATHANA CHY  
 REVISED BY  
 DATE REVISED



MAINTAIN EXISTING PLANTED AREAS AND  
OPERATE EXISTING IRRIGATION FACILITIES

APPROVED FOR HARDSCAPE WORK ONLY

**LANDSCAPE LAYOUT**  
SCALE: 1" = 50' **LL-3**



**NOTE:**

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

Sta 581+00, ROUTE 55 MAINLINE  
Beg 25 SQYD ROADSIDE PAVING (MISCELLANEOUS AREA) AND  
4 CY ROADWAY EXCAVATION (TYPE Y-1)  
(AERIALY DEPOSITED LEAD)

Sta 581+30, ROUTE 55 MAINLINE  
END ROADSIDE PAVING (MISCELLANEOUS AREA)

Sta 581+70, ROUTE 55 MAINLINE  
Beg 25 SQYD ROADSIDE PAVING (MISCELLANEOUS AREA) AND  
4 CY ROADWAY EXCAVATION (TYPE Y-1)  
(AERIALY DEPOSITED LEAD)

Sta 582+00, ROUTE 55 MAINLINE  
END ROADSIDE PAVING (MISCELLANEOUS AREA)

MAINTAIN EXISTING PLANTED AREAS AND  
OPERATE EXISTING IRRIGATION FACILITIES

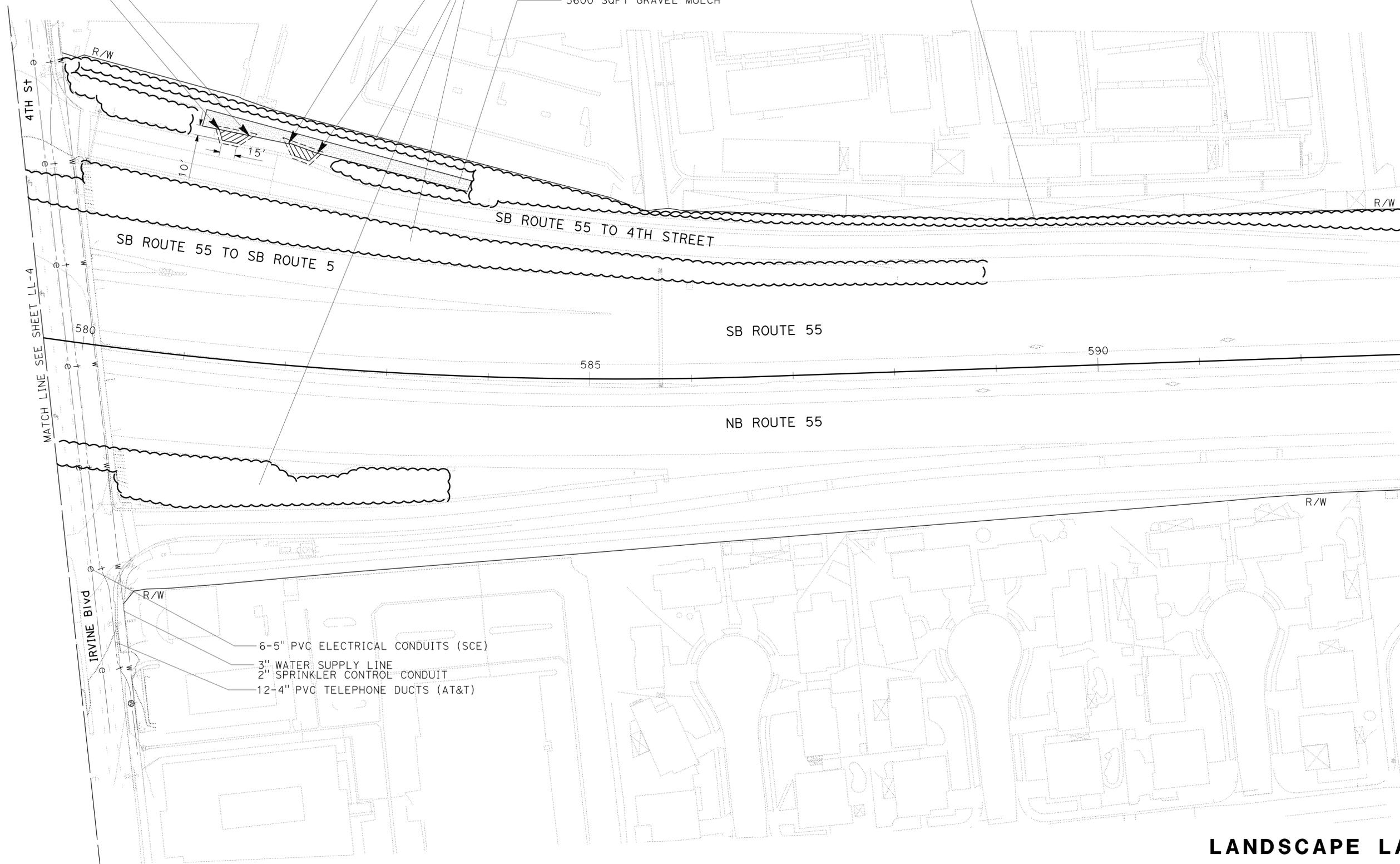
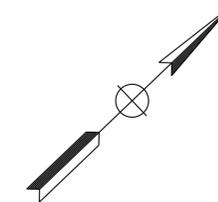
3600 SQFT GRAVEL MULCH

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	12	31

*Vathana Chy* 12/22/14  
LICENSED LANDSCAPE ARCHITECT

01/26/15  
PLANS APPROVAL DATE

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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDON MARES	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	VATHANA CHY	DESIGNED BY	REVISION
SENIOR LANDSCAPE ARCHITECT	ERIC DICKSON	CHECKED BY	DATE

APPROVED FOR HARDSCAPE WORK ONLY

**LANDSCAPE LAYOUT**

SCALE: 1" = 50' LL-5



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	13	31

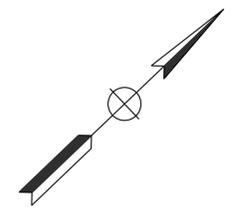
<i>W. Athans</i>	12/22/14
LICENSED LANDSCAPE ARCHITECT	
01/26/15	
PLANS APPROVAL DATE	

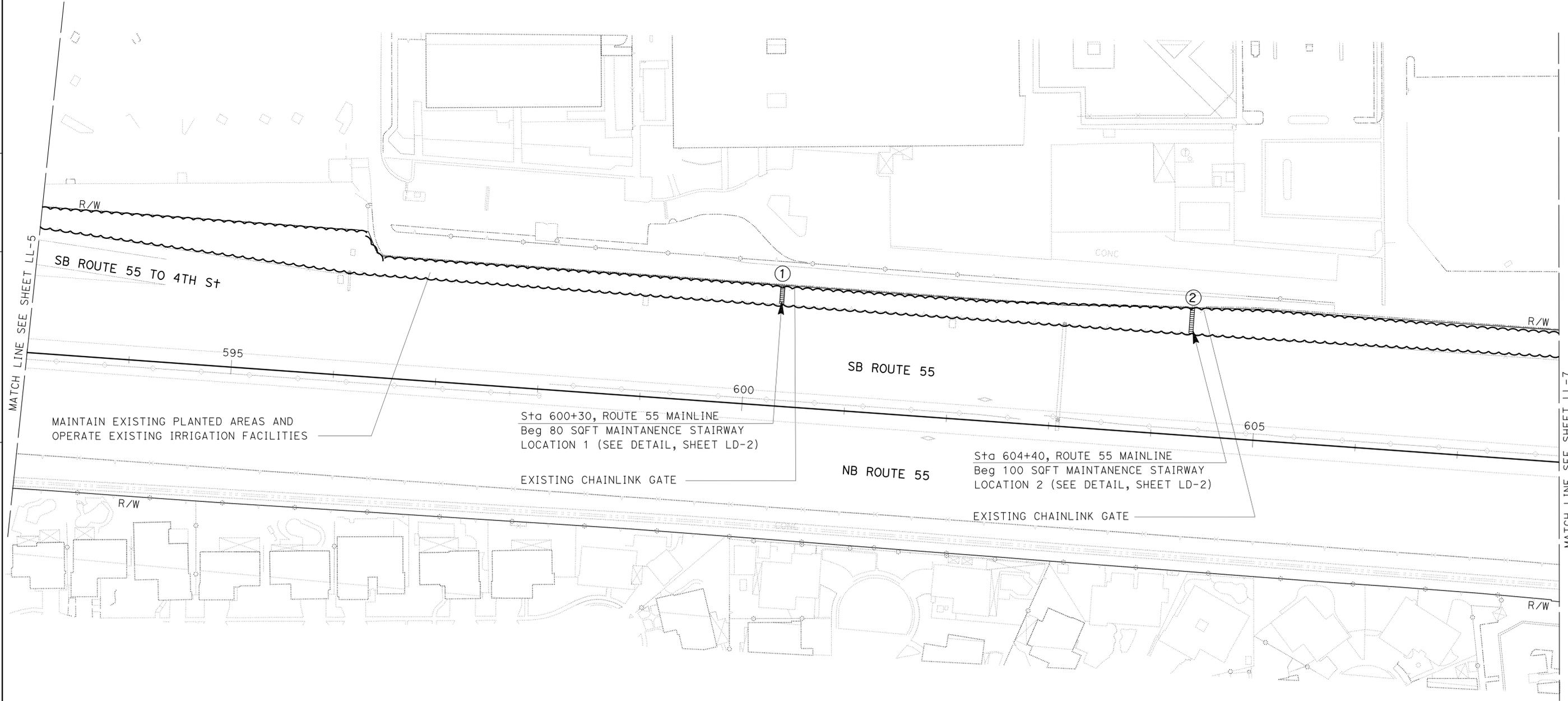
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**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CHECKED BY	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>		ERIC DICKSON	VATHANA CHY	LONDON MARES		



**LANDSCAPE LAYOUT**  
SCALE: 1" = 50' **LL-6**

APPROVED FOR HARDSCAPE WORK ONLY

LAST REVISION: 11-03-14    DATE PLOTTED => 18-MAR-2015    TIME PLOTTED => 08:56

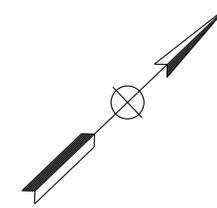
**NOTE:**

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

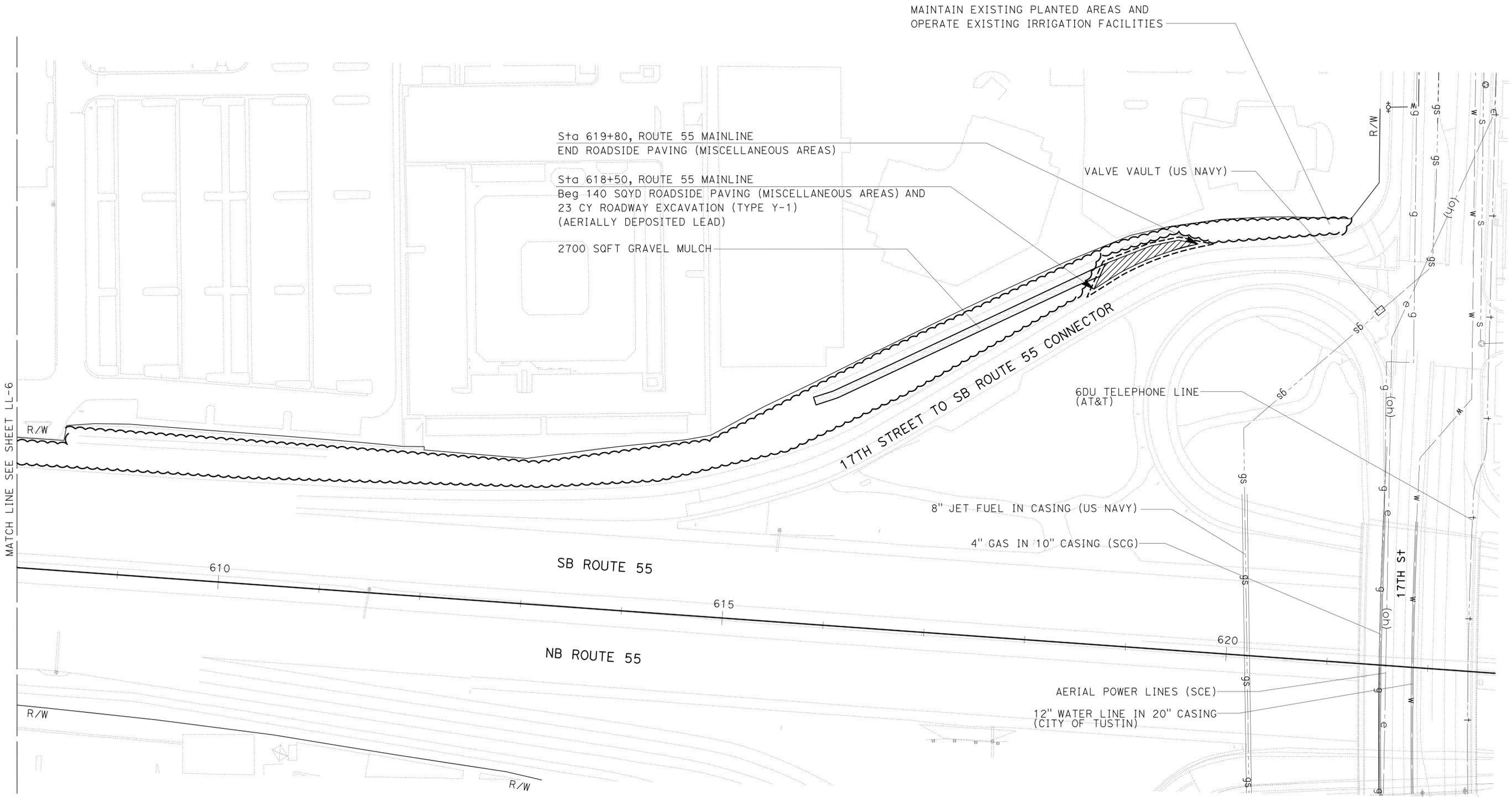
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	14	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	ERIC DICKSON	CALCULATED-DESIGNED BY	CHECKED BY	LANDON MARES	VATHANA CHY	REVISED BY	DATE REVISED
<b>Caltrans</b>	<b>LANDSCAPE ARCHITECTURE</b>								



MAINTAIN EXISTING PLANTED AREAS AND  
OPERATE EXISTING IRRIGATION FACILITIES

**LANDSCAPE LAYOUT**  
SCALE: 1" = 50' **LL-7**

APPROVED FOR HARDSCAPE WORK ONLY



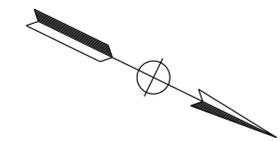
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	15	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT

01/26/15  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT  
 ERIC DICKSON

CALCULATED-DESIGNED BY  
 CHECKED BY

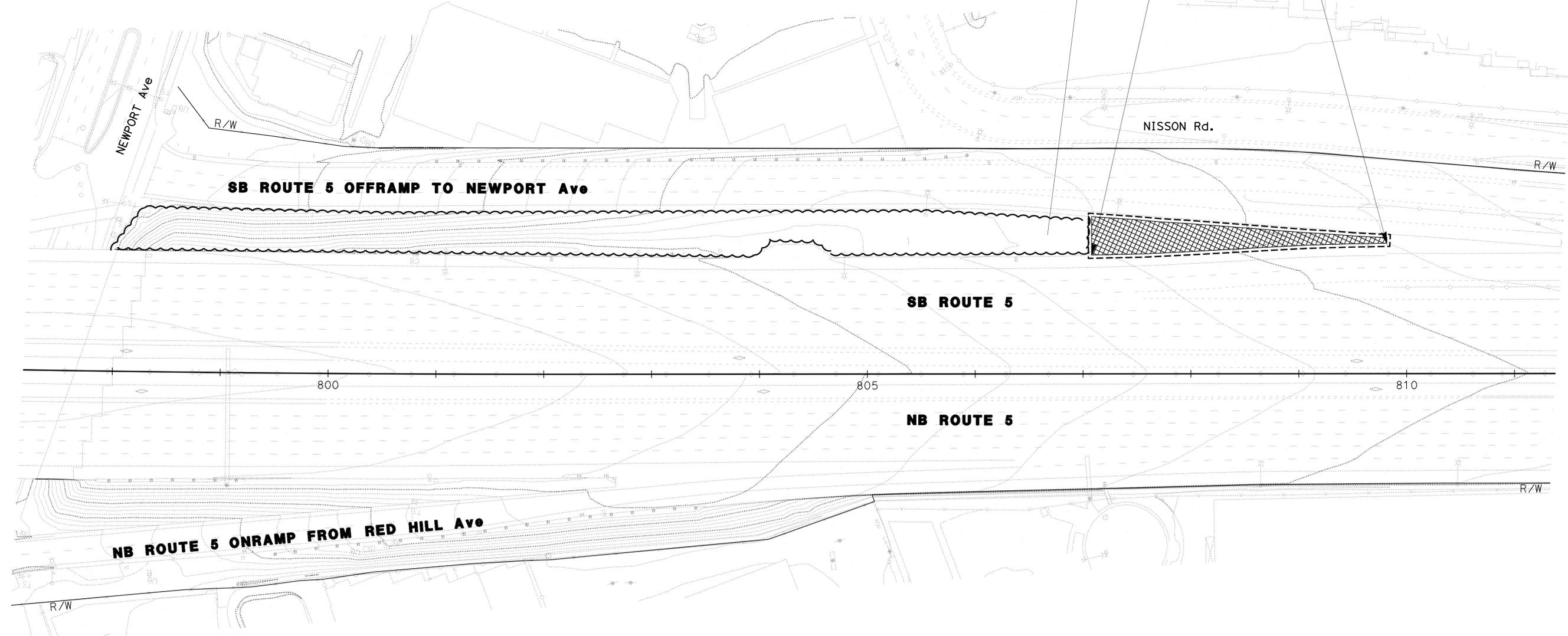
LANDON MARES  
 VATHANA CHY

REVISED BY  
 DATE REVISED

Sta 807+10, ROUTE 5 MAINLINE  
 END MINOR CONCRETE (STAMPED CONCRETE)

Sta 807+10, ROUTE 5 MAINLINE  
 Beg 6000 SOFT MINOR CONCRETE (STAMPED CONCRETE) AND  
 110 CY ROADWAY EXCAVATION (TYPE Y-1)  
 (AERIALY DEPOSITED LEAD)

MAINTAIN EXISTING PLANTED AREAS AND  
 OPERATE EXISTING IRRIGATION FACILITIES



APPROVED FOR HARDSCAPE WORK ONLY

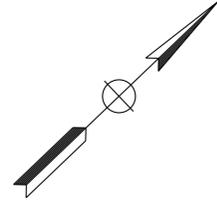
**LANDSCAPE LAYOUT**  
 SCALE: 1" = 50' **LL-8**

LAST REVISION DATE PLOTTED => 18-MAR-2015 11-03-14 TIME PLOTTED => 08:56

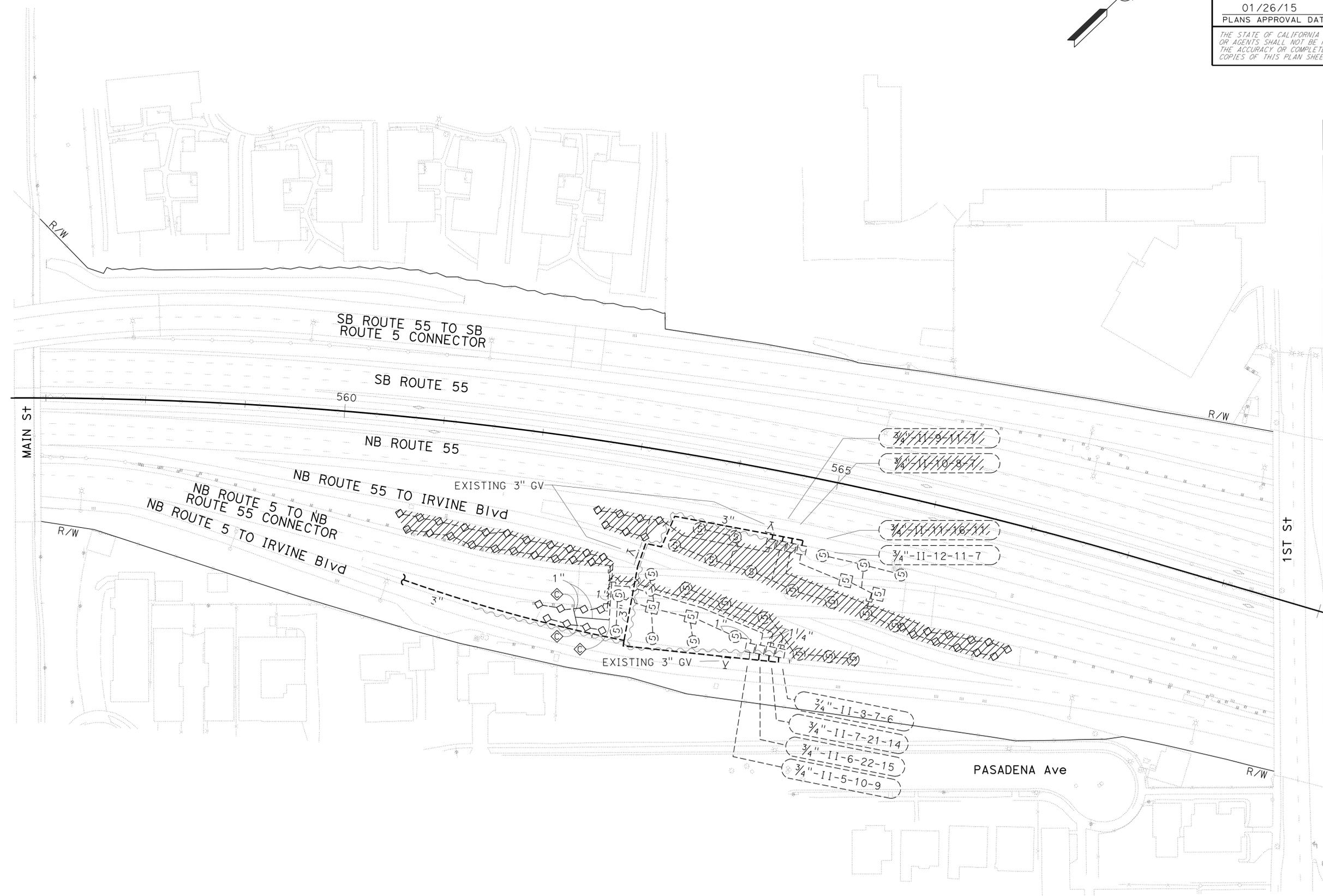
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	16	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	LANDON MARES	REVISED BY	
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	ERIC DICKSON	CHECKED BY	VATHANA CHY	DATE REVISED	

APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION REMOVAL PLAN**  
**IR-1**

SCALE: 1" = 50'

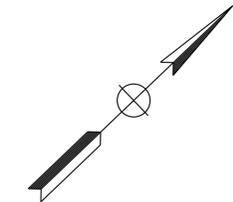
**NOTE:**

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55,5	9.6/12.0 29.6/31.1	17	12

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	LANDON MARES	REVISED BY
<b>Caltrans</b>		ERIC DICKSON	CHECKED BY	VATHANA CHY	DATE REVISED

**IRRIGATION REMOVAL PLAN**  
**IR-2**

APPROVED FOR IRRIGATION WORK ONLY

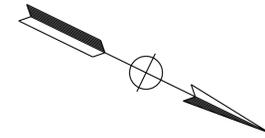
SCALE: 1" = 50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	18	31

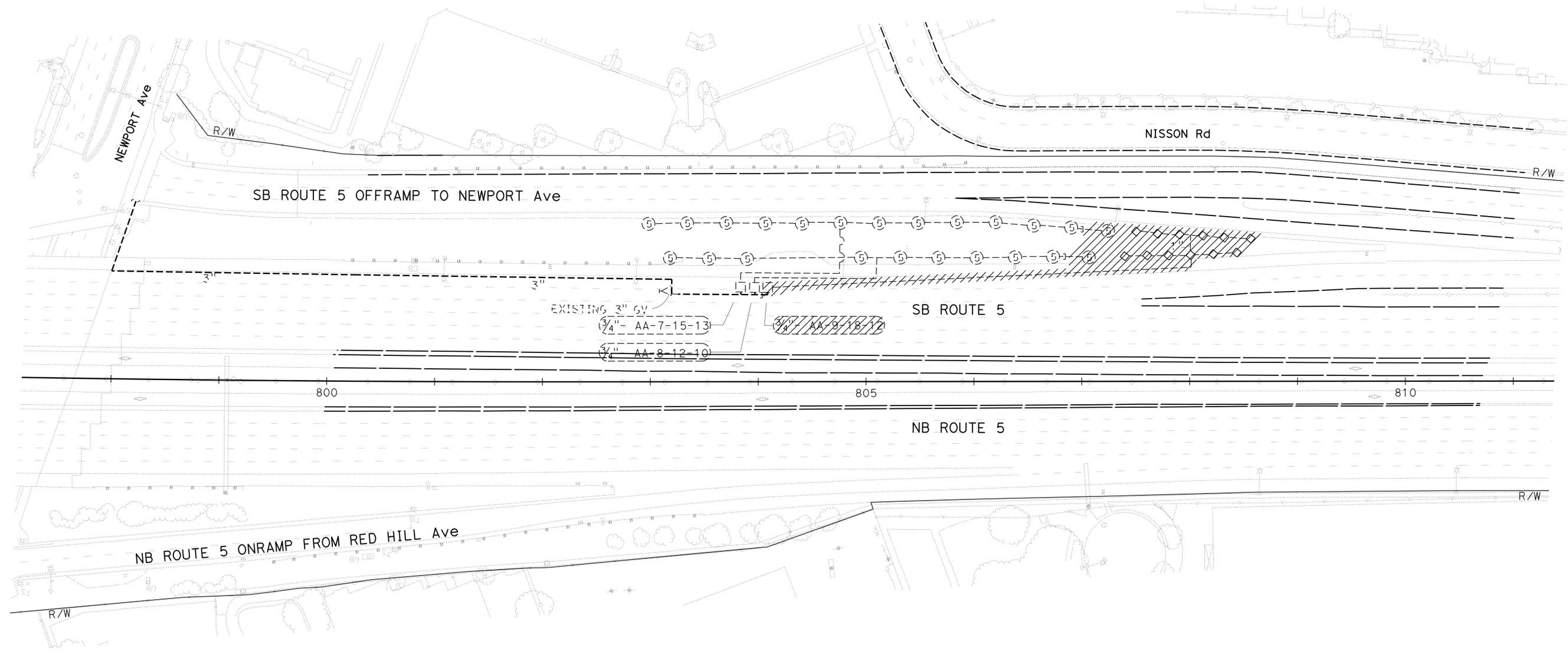
*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDON MARES	REVISER BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	VATHANA CHY	DATE REVISED
SENIOR LANDSCAPE ARCHITECT	ERIC DICKSON	
CALCULATED/DESIGNED BY	CHECKED BY	



**IRRIGATION REMOVAL PLAN**  
**IR-3**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION WORK ONLY

LAST REVISION    DATE PLOTTED => 18-MAR-2015    TIME PLOTTED => 08:56  
 11-03-14

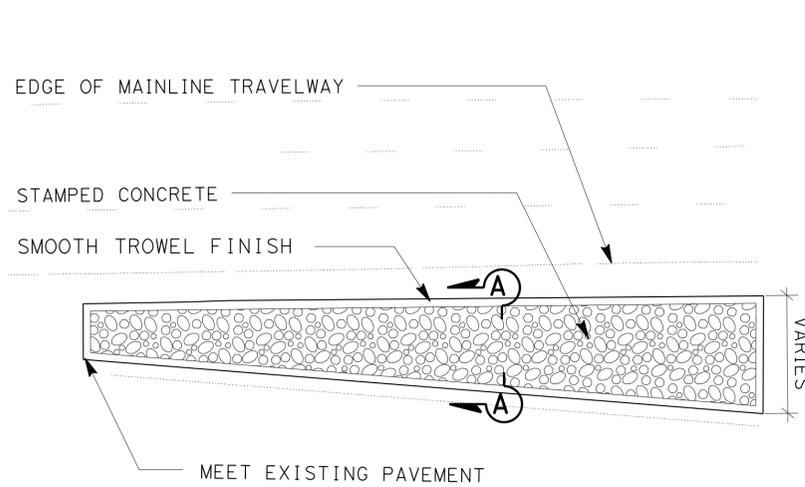
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	19	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01-31-17  
 SIGNATURE  
 01-31-17  
 RENEWAL DATE  
 12/22/14  
 DATE  
 STATE OF CALIFORNIA

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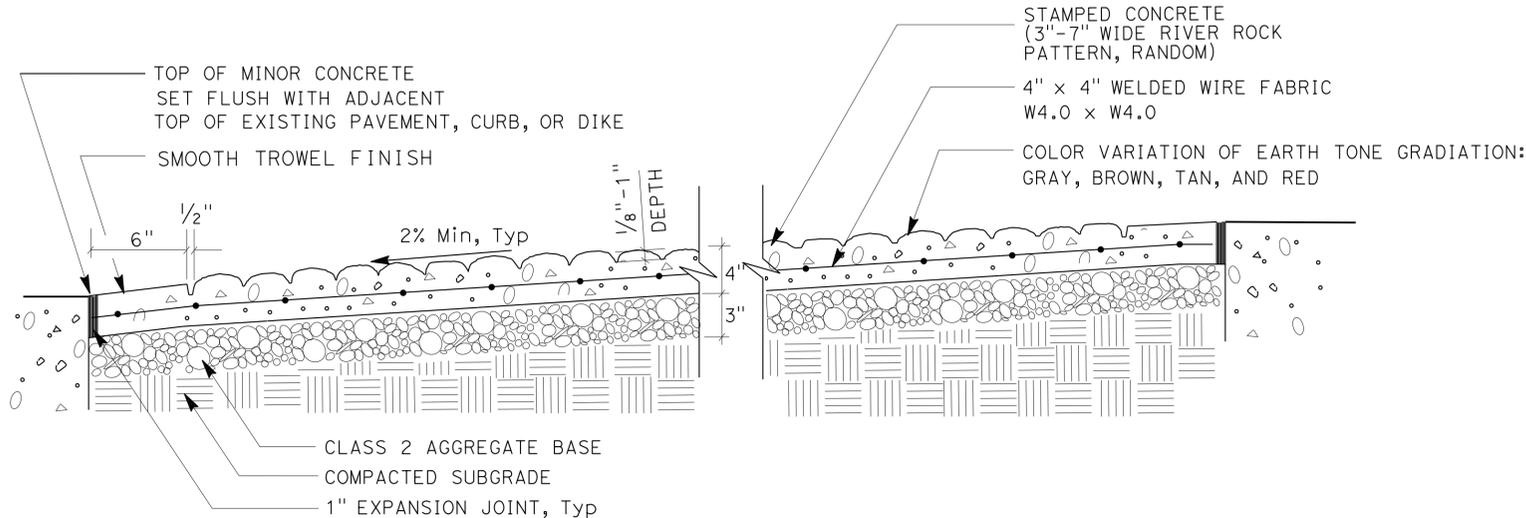
**NOTES**

- FOLLOW STANDARD PLAN RSP A77N5 AND STANDARD SPECIFICATION 83-1.02B(1) WHEN PLACING MINOR CONCRETE (STAMPED CONCRETE) AND/OR ROCK BLANKET UNDER SIGN AND GUARD RAIL POSTS.

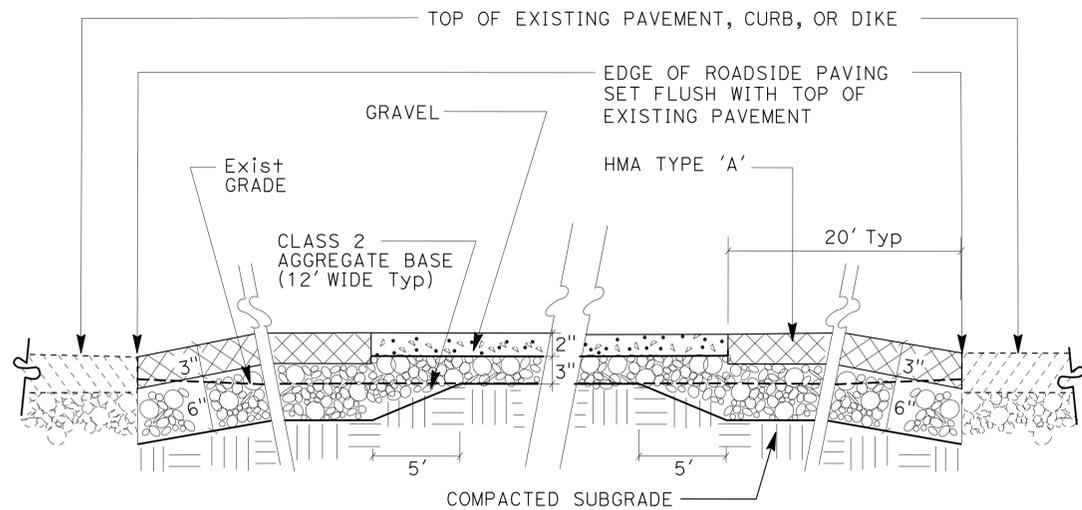


**PLAN**

**MINOR CONCRETE (STAMPED CONCRETE)**

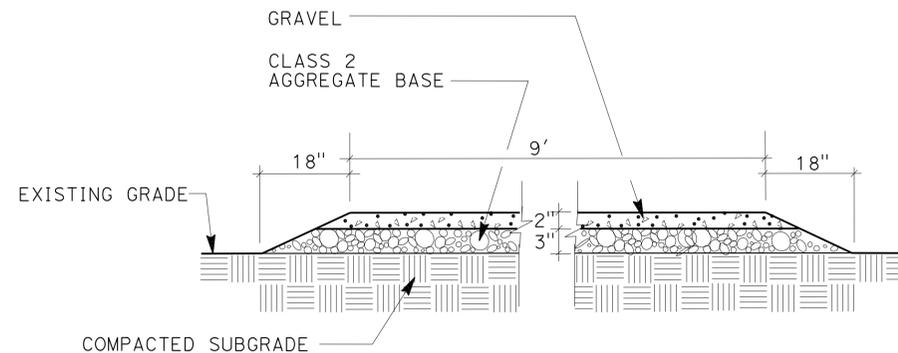


**SECTION A-A**



d1\_02  
20' Typ

**ROADSIDE PAVING AND GRAVEL MULCH SECTION**



**GRAVEL MULCH (MAINTENANCE ACCESS ROAD) SECTION**

**LANDSCAPE DETAILS**

NO SCALE **LD-1**

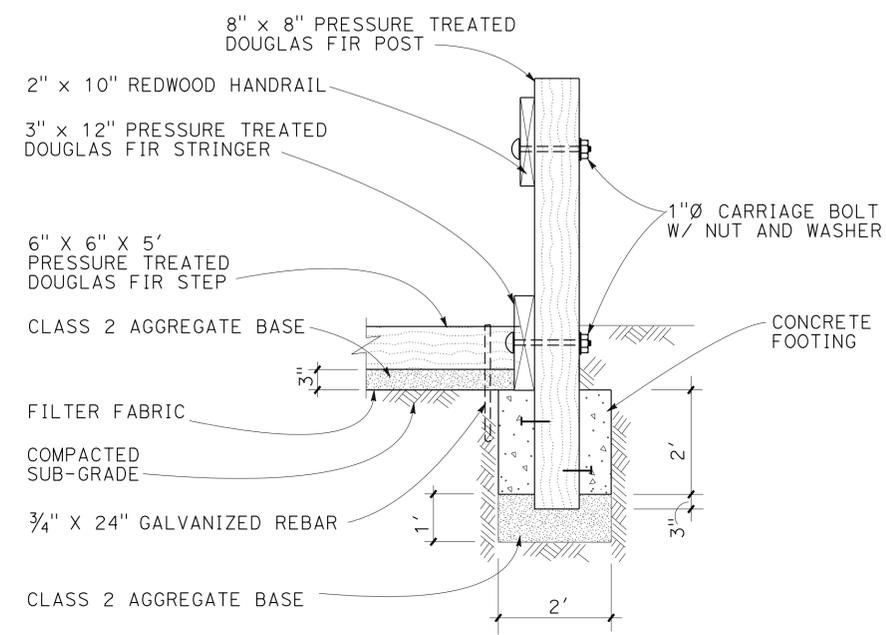
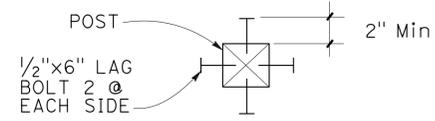
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
ERIC DICKSON	SENIOR LANDSCAPE ARCHITECT
LONDON MARES	REVISOR
VATHANA CHY	DATE REVISOR
CALCULATED/DESIGNED BY	CHECKED BY



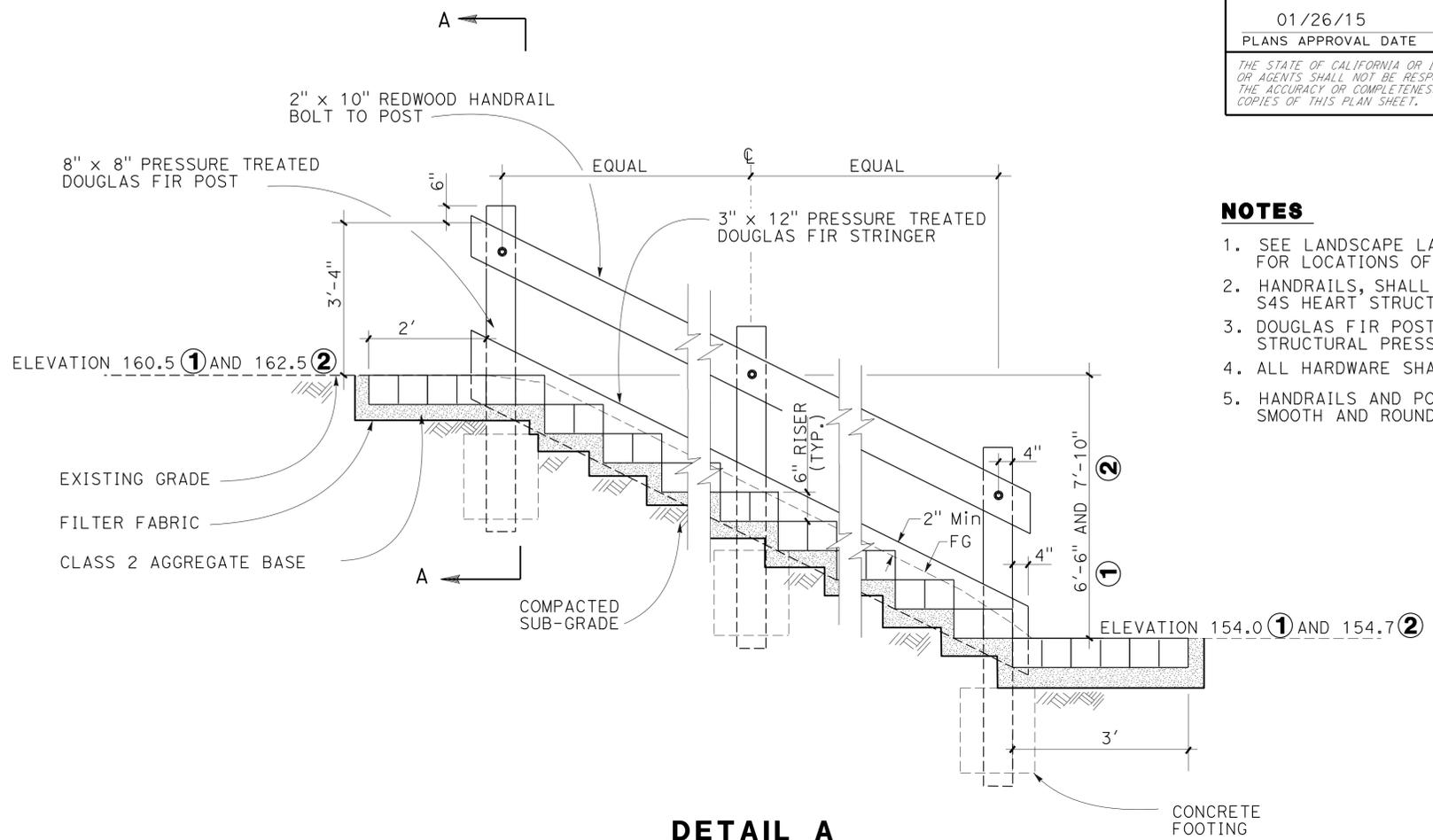
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	20	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

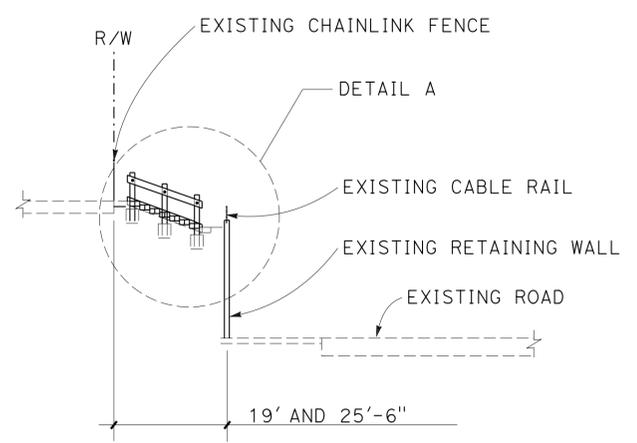
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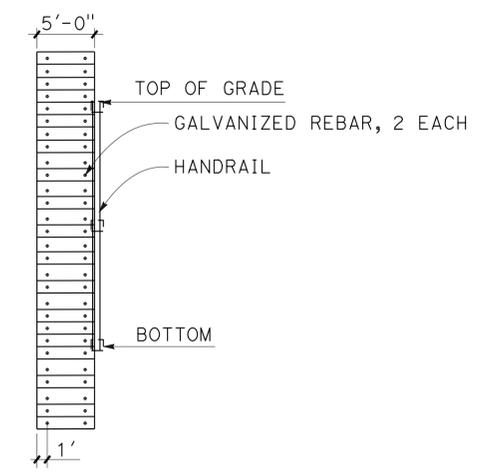
**SECTION A-A**



**DETAIL A**



**MAINTENANCE STAIRWAY  
LOCATION ① AND ②**



**PLAN VIEW  
LOCATION ① AND ②**

- NOTES**
1. SEE LANDSCAPE LAYOUT SHEET LL-6 FOR LOCATIONS OF MAINTENANCE STAIRWAY.
  2. HANDRAILS, SHALL BE REDWOOD S4S HEART STRUCTURE.
  3. DOUGLAS FIR POST SHALL BE S4S No. 1 STRUCTURAL PRESSURE TREATED.
  4. ALL HARDWARE SHALL BE GALVANIZED.
  5. HANDRAILS AND POSTS SHALL BE SANDED SMOOTH AND ROUND EDGES.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 LANDON MARES  
 VATHANA CHY  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 SENIOR LANDSCAPE ARCHITECT  
 ERIC DICKSON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	21	31

*Vathana Chy* 12/22/14  
 LICENSED LANDSCAPE ARCHITECT  
 01/26/15  
 PLANS APPROVAL DATE

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### TEMPORARY WATER POLLUTION CONTROL QUANTITIES

DESCRIPTION	UNIT	SHEET No LL-								TOTAL
		1	2	3	4	5	6	7	8	
TEMPORARY GRAVEL BAG BERM	LF	625	625	250	50	—	100	750	50	2450
TEMPORARY DRAINAGE INLET PROTECTION	EA	8	8	4	2	1	—	1	2	26
TEMPORARY CONSTRUCTION ENTRANCE (TYPE 2)	EA	1	1	—	—	—	—	—	1	3

### IRRIGATION QUANTITIES

DESCRIPTION	UNIT	SHEET No IR-			TOTAL
		1	2	3	
1" PLASTIC PIPE (SCH 40)	LF	60	—	—	60

### LANDSCAPE QUANTITIES

DESCRIPTION	UNIT	SHEET No LL-								TOTAL
		1	2	3	4	5	6	7	8	
REMOVE CONCRETE PAVEMENT (ROCK BLANKET)	SOYD	1910	3760	—	—	—	—	—	—	5670
ROCK BLANKET	SOFT	7400	—	17,900	3400	—	—	—	—	28,700
GRAVEL MULCH (ACCESS ROAD)	SOFT	—	10,000	—	—	3600	—	2700	—	16,300
ROADWAY EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)	CY	27	19	332	63	8	—	23	110	582
MAINTENANCE STAIRWAY	SOFT	—	—	—	—	—	180	—	—	180
ROADSIDE PAVING (MISCELLANEOUS AREA)	SOYD	—	112	—	—	50	—	140	—	302
MINOR CONCRETE (STAMPED CONCRETE)	SOFT	11,250	33,840	—	—	—	—	—	6000	51,090
CLASS 2 AGGREGATE BASE	CY	105	323	—	—	4	—	12	56	500

## LANDSCAPE QUANTITIES LQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 ERIC DICKSON  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 LONDON MARES  
 VATHANA CHY  
 REVISED BY  
 DATE REVISED



	<b>M</b>	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	<b>N</b>	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	<b>O</b>	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	<b>P</b>	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	<b>P continued</b>	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	<b>Q</b>	
Qty	QUANTITY	
	<b>R</b>	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	<b>S</b>	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	<b>T</b>	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	<b>T continued</b>	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	<b>U</b>
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	<b>V</b>
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	<b>W</b>
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	<b>X</b>
X Sec	CROSS SECTION	
Xing	CROSSING	<b>Y</b>
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	22	31

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Grace M. Tsushima  
 No. C49814  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 01/26/2015

**UNIT OF MEASUREMENT SYMBOLS:**

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

**TABLE A**

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

**TABLE B**

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft <sup>3</sup> , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS  
(SHEET 2 OF 2)**

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B  
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	23	31

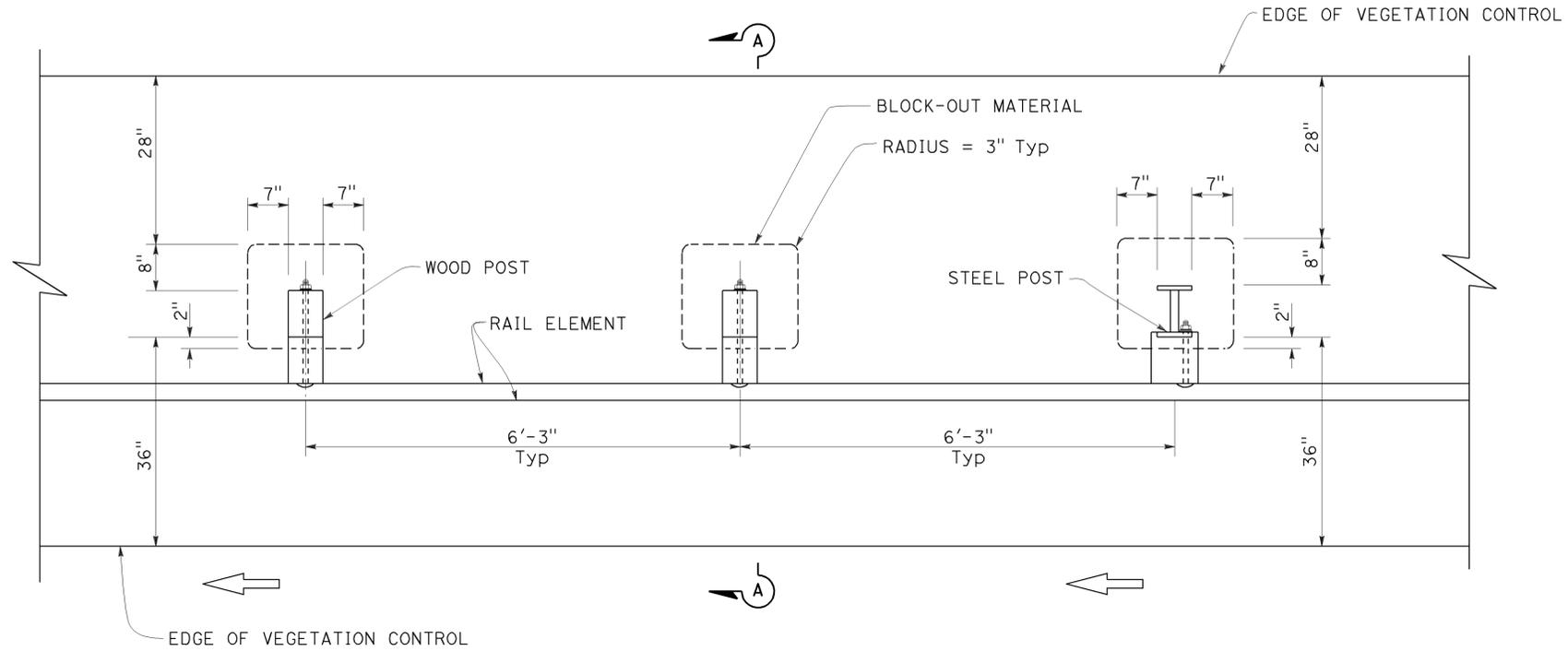
Randell D. Hiatt  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-15  
CIVIL  
STATE OF CALIFORNIA

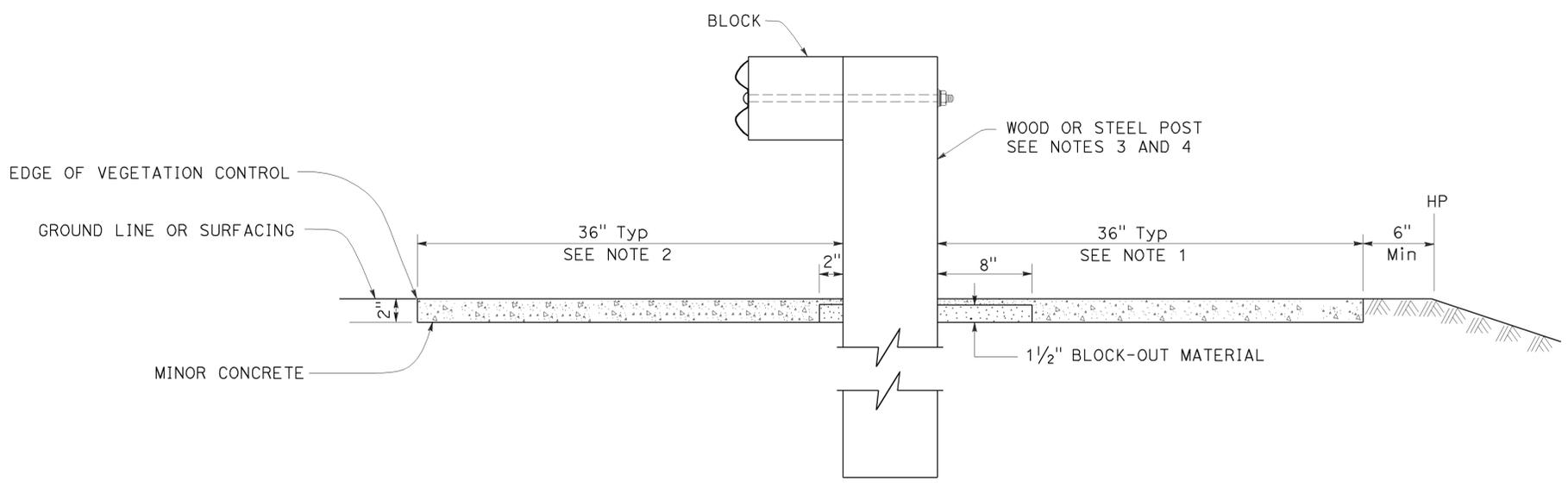
TO ACCOMPANY PLANS DATED 01/26/2015



PLAN

**NOTES:**

1. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.
3. For wood post sizes, see Revised Standard Plan RSP A77N1.
4. For steel post sizes, see Revised Standard Plan RSP A77N2.
5. For details not shown, see Revised Standard Plans RSP A77L1 and RSP A77L2.



SECTION A-A

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM  
TYPICAL VEGETATION CONTROL  
STANDARD RAILING SECTION**

NO SCALE

RSP A77N5 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A77N5**

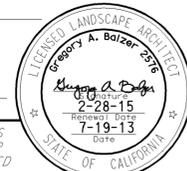
2010 REVISED STANDARD PLAN RSP A77N5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	24	31

*Gregory A. Balzer*  
LICENSED LANDSCAPE ARCHITECT

July 19, 2013  
PLANS APPROVAL DATE

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.



TO ACCOMPANY PLANS DATED 01/26/2015

**A**

AB AGGREGATE BASE  
 ABS ACRYLONITRILE-BUTADIENE-STYRENE  
 AC ASPHALT CONCRETE  
 ACC ARMOR-CLAD CONDUCTORS  
 Adj ADJACENT/ADJUSTABLE  
 AIC AUXILIARY IRRIGATION CONTROLLER  
 Alt ALTERNATIVE  
 AMEND AMENDMENT  
 ARV AIR RELEASE VALVE  
 AUTO AUTOMATIC  
 AUX AUXILIARY  
 AVB ATMOSPHERIC VACUUM BREAKER

**B**

B&B BALLED AND BURLAPPED  
 B/B BRASS/BRONZE  
 B/B/PL BRASS/BRONZE/PLASTIC  
 B/PL BRASS/PLASTIC  
 BFM BONDED FIBER MATRIX  
 Bit Ctd BITUMINOUS COATED  
 BP BOOSTER PUMP  
 BPA BACKFLOW PREVENTER ASSEMBLY  
 BPE BACKFLOW PREVENTER ENCLOSURE  
 BV BALL VALVE

**C**

C CONDUIT  
 CAP CORRUGATED ALUMINUM PIPE  
 CARV COMBINATION AIR RELEASE VALVE  
 CB COUPLING BAND  
 CCA CAM COUPLER ASSEMBLY  
 CEC CONTROLLER ENCLOSURE CABINET  
 CHDPE CORRUGATED HIGH DENSITY POLYETHYLENE  
 CL CHAIN LINK  
 CNC CONTROL AND NEUTRAL CONDUCTORS  
 Conc CONCRETE  
 CP COPPER PIPE  
 CS COMPOST SOCK  
 CSP CORRUGATED STEEL PIPE  
 CST CENTER STRIP  
 CV CHECK VALVE

**D**

Dia DIAMETER  
 DIP DUCTILE IRON PIPE  
 DIT DRIP IRRIGATION TUBING  
 DG DECOMPOSED GRANITE  
 DN DIAMETER NOMINAL  
 DVA DRIP VALVE ASSEMBLY

**E**

EC EROSION CONTROL  
 ECTC EROSION CONTROL TECHNOLOGY COUNCIL  
 ElecT ELECTRIC/ELECTRICAL  
 Elev ELEVATION  
 ELL ELBOW  
 ENCL ENCLOSURE  
 EP EDGE OF PAVEMENT  
 ES EDGE OF SHOULDER  
 EST END STRIP  
 ESTB ESTABLISHMENT  
 ETW EDGE OF TRAVELED WAY

**F**

F FULL CIRCLE  
 F/P FULL/PART CIRCLE  
 FCV FLOW CONTROL VALVE  
 FERT FERTILIZER  
 FG FINISHED GRADE  
 FH FLEXIBLE HOSE  
 FIPT FEMALE IRON PIPE THREAD  
 FIS FERTILIZER INJECTOR SYSTEM  
 FL FLOW LINE  
 FR FIBER ROLL  
 FS FLOW SENSOR  
 FSC FLOW SENSOR CABLE  
 FV FLUSH VALVE

**G**

Galv GALVANIZED  
 GARV GARDEN VALVE  
 GARVA GARDEN VALVE ASSEMBLY  
 GM GRAVEL MULCH  
 GPH GALLONS PER HOUR  
 GPM GALLONS PER MINUTE  
 GSP GALVANIZED STEEL PIPE  
 GV GATE VALVE

**H**

H HALF CIRCLE  
 HDPE HIGH DENSITY POLYETHYLENE  
 HP HORSEPOWER/HINGE POINT  
 HPL HIGH PRESSURE LINE  
 Hwy HIGHWAY

**I**

IC IRRIGATION CONTROLLER  
 ICC IRRIGATION CONTROLLER(S)  
 IN CONTROLLER ENCLOSURE CABINET  
 ID INSIDE DIAMETER  
 IFS IRRIGATION FILTRATION SYSTEM  
 IPS IRON PIPE SIZE  
 IPT IRON PIPE THREAD  
 Irr IRRIGATION

**L**

L LENGTH

**M**

Max MAXIMUM  
 MBGR METAL BEAM GUARD RAILING  
 MCV MANUAL CONTROL VALVE  
 MIC MASTER IRRIGATION CONTROLLER  
 Min MINIMUM  
 MIPT MALE IRON PIPE THREAD  
 Misc MISCELLANEOUS  
 MtI MATERIAL  
 MVP MAINTENANCE VEHICLE PULLOUT

**N**

NCN NO COMMON NAME  
 NL NOZZLE LINE  
 No. NUMBER  
 NPT NATIONAL PIPE THREAD

**O**

O/C ON CENTER  
 OD OUTSIDE DIAMETER  
 OL OVERLAP

**P**

P PART CIRCLE  
 PB PULL BOX  
 PCC PORTLAND CEMENT CONCRETE  
 PE POLYETHYLENE  
 Pkt+ PACKET  
 PL PLASTIC  
 PLS PURE LIVE SEED  
 PLT PLANT/PLANTING  
 PLT ESTB PLANT ESTABLISHMENT  
 PM POST MILE  
 PR PRESSURE RATED  
 PRLV PRESSURE RELIEF VALVE  
 PRV PRESSURE REGULATING VALVE  
 PVC POLYVINYL CHLORIDE  
 Pvm+ PAVEMENT

**Q**

Q QUARTER CIRCLE  
 QCV QUICK COUPLING VALVE

**NOTE:**  
 For additional abbreviations,  
 see Standard Plans A10A and A10B.

**R**

R RADIUS  
 RCP REINFORCED CONCRETE PIPE  
 RCV REMOTE CONTROL VALVE  
 RCVM REMOTE CONTROL VALVE (MASTER)  
 RCVMF REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR  
 RCVP REMOTE CONTROL VALVE W/PRESSURE REGULATOR  
 RCW RECYCLED WATER  
 RECP ROLLED EROSION CONTROL PRODUCT  
 REQ REQUIRED  
 RICS REMOTE IRRIGATION CONTROL SYSTEM  
 R/W RIGHT OF WAY

**S**

S SLIP  
 SCH SCHEDULE  
 SF STATE-FURNISHED  
 Shld SHOULDER  
 Sq SQUARE  
 SST SIDE STRIP  
 Sta STATION  
 Std STANDARD  
 SW SIDEWALK/SOUND WALL

**T**

T THIRD CIRCLE/THREAD  
 TLS TRUCK LOADING STANDPIPE  
 TQ THREE QUARTER CIRCLE  
 TRM TURF REINFORCEMENT MAT  
 TT TWO-THIRDS CIRCLE  
 TWSA TREE WELL SPRINKLER ASSEMBLY  
 Typ TYPICAL

**U**

UG UNDERGROUND

**W**

W WIDTH  
 W/ WITH  
 WM WATER METER  
 WS WYE STRAINER  
 WSA WYE STRAINER ASSEMBLY  
 WSP WELDED STEEL PIPE  
 WWM WELDED WIRE MESH

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE AND  
 EROSION CONTROL ABBREVIATIONS**  
 NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1  
 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H1**

2010 REVISED STANDARD PLAN RSP H1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	25	31

*Gregory A. Balzer*  
LICENSED LANDSCAPE ARCHITECT

November 15, 2013  
PLANS APPROVAL DATE

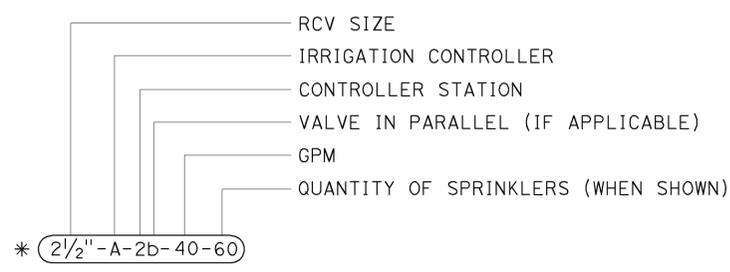
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TO ACCOMPANY PLANS DATED 01/26/2015

2010 REVISED STANDARD PLAN RSP H2

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC)
		IRRIGATION CONTROLLER (IC) (BATTERY)
		IRRIGATION CONTROLLER (IC) (SOLAR)
		IRRIGATION CONTROLLER (IC) (TWO WIRE)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		ARMOR-CLAD CONDUCTORS (ACC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		IRRIGATION CONDUIT
		EXTEND IRRIGATION CONDUIT
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (SUPPLY LINE) (LATERAL)
		COPPER PIPE (SUPPLY LINE)
		DRIP IRRIGATION TUBING
		REMOTE CONTROL VALVE (RCV)
		REMOTE CONTROL VALVE (MASTER) (RCVM)
		REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP)
		EXISTING MANUAL CONTROL VALVE (MCV)
		DRIP VALVE ASSEMBLY (DVA)
		WYE STRAINER ASSEMBLY (WSA)

EXISTING	NEW	ITEM DESCRIPTION
		GATE VALVE (GV)
		BALL VALVE (BV)
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		GARDEN VALVE ASSEMBLY (GARVA)
		PRESSURE REGULATING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		EXISTING NOZZLE LINE W/TURNING UNION
		EXISTING IRRIGATION SYSTEM
		EXISTING IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING
		FIBER ROLL
		COMPOST SOCK



\* 2 1/2" - A - 2b - 40 - 60

**VALVE CODE**

\* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE AND EROSION CONTROL SYMBOLS**  
NO SCALE

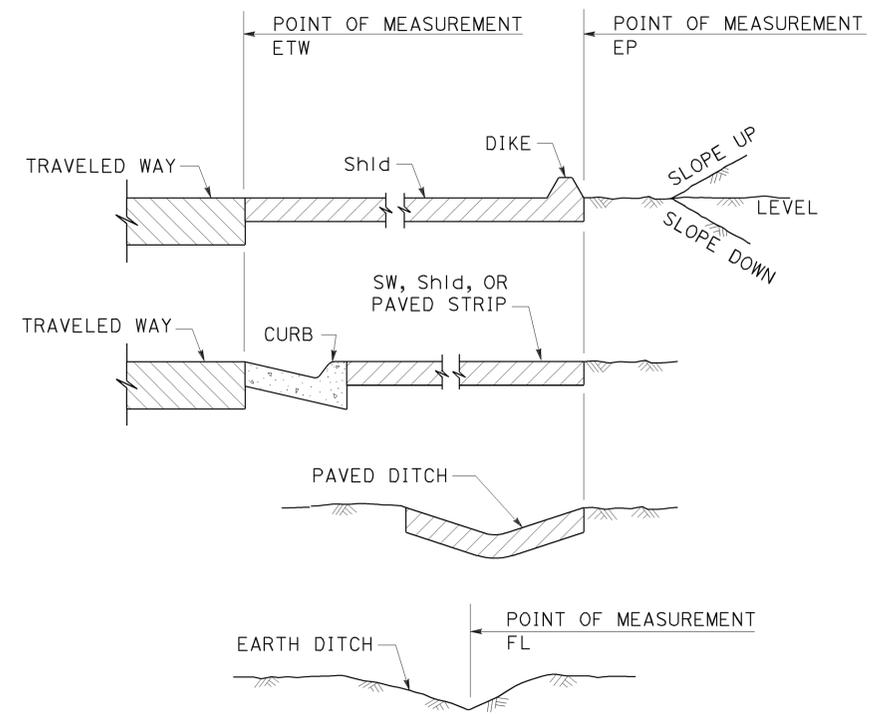
RSP H2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H2**

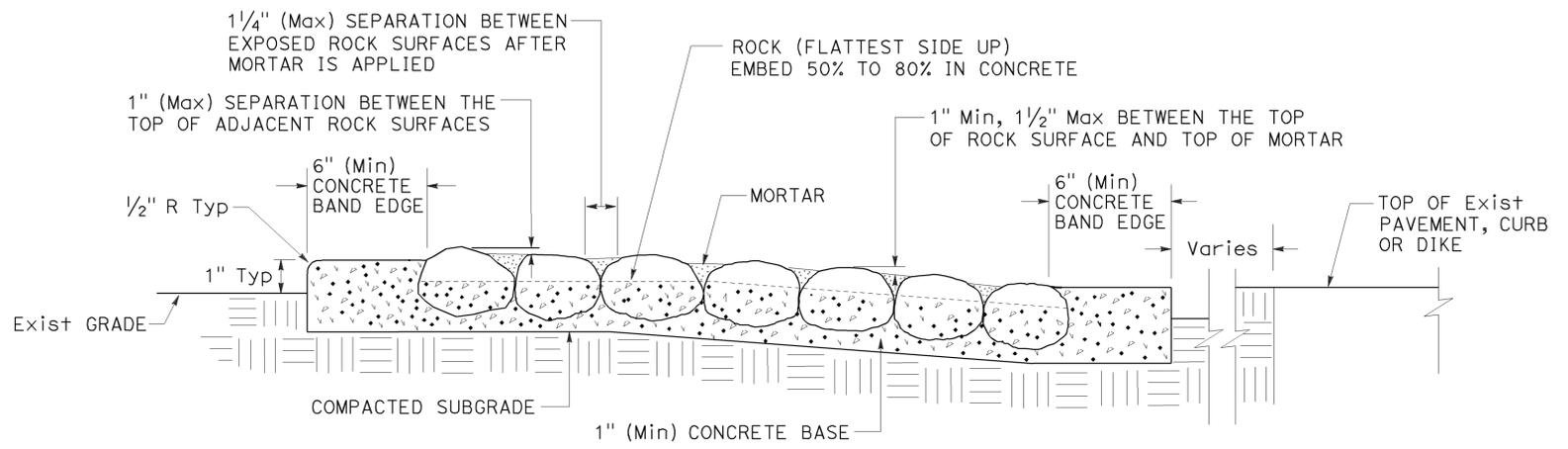
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	26	31

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 2013  
 PLANS APPROVAL DATE  
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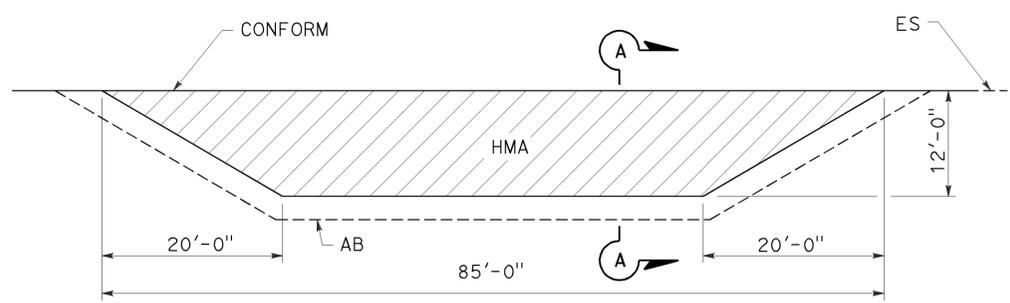
TO ACCOMPANY PLANS DATED 01/26/2015



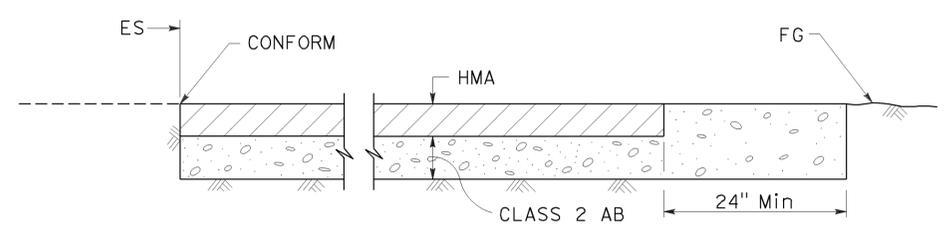
**SECTION  
POINTS OF MEASUREMENT**



**SECTION  
ROCK BLANKET**



**PLAN**



**SECTION A-A  
MAINTENANCE VEHICLE PULLOUT**

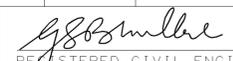
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE DETAILS**  
 NO SCALE

RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H9A**

2010 REVISED STANDARD PLAN RSP H9A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	27	31

  
 REGISTERED CIVIL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 01/26/2015

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

\* - For other offsets, use the following merging taper length formula for L:  
 For speed of 40 mph or less,  $L = WS^2/60$   
 For speed of 45 mph or more,  $L = WS$

Where: L = Taper length in feet  
 W = Width of offset in feet  
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

\*\* - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

\* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph  
 \*\* - Longitudinal buffer space or flagger station spacing  
 \*\*\* - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

\* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

## TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T9**

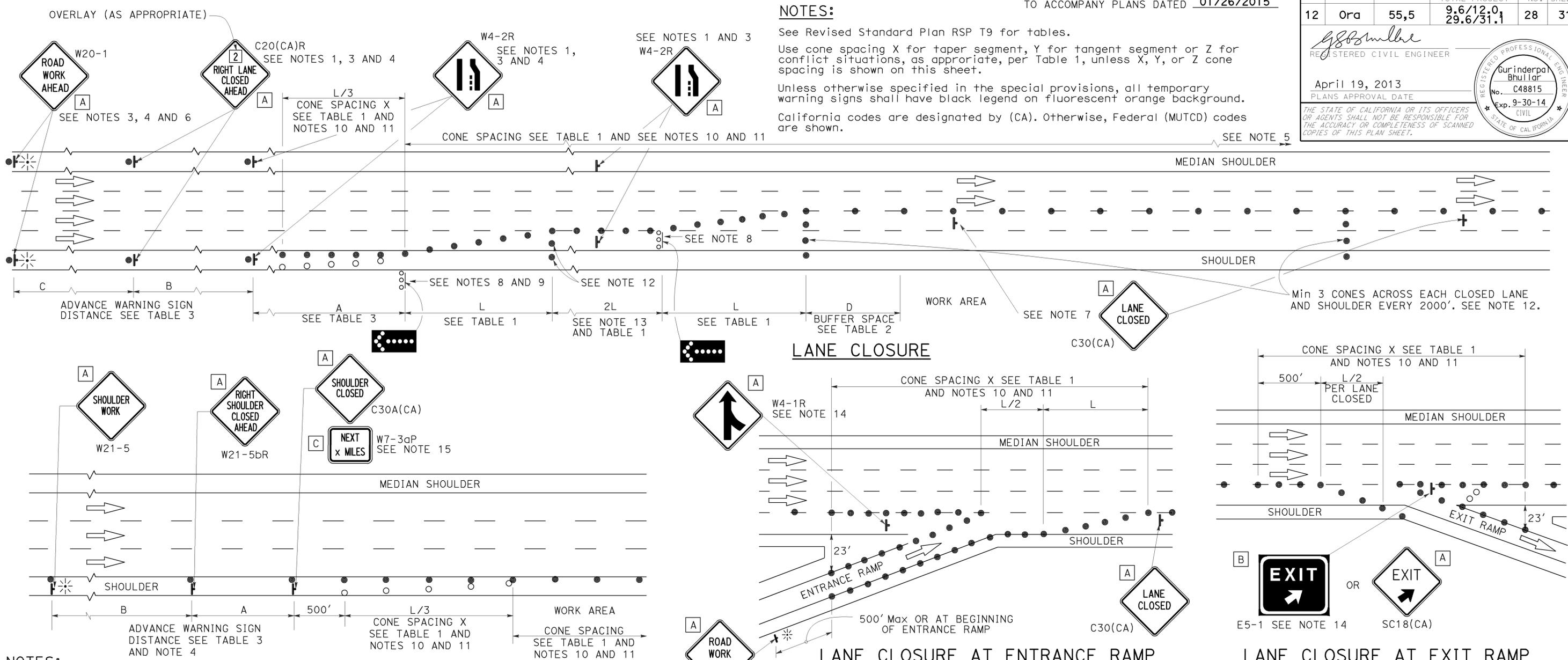
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	28	31

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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**NOTES:**  
 See Revised Standard Plan RSP T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.  
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
  2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
  3. Duplicate sign installations are not required:
    - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
    - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
  4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
  5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20(CA)L and W4-2L signs shall be used.
  7. Place a C30(CA) sign every 2000' throughout length of lane closure.
  8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
  9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
  10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
  11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT \_\_\_\_\_ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10  
 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T10**

2010 REVISED STANDARD PLAN RSP T10

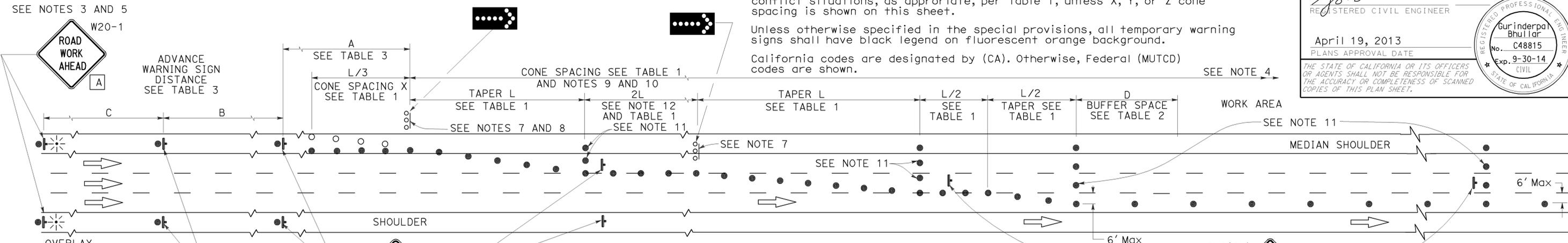
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	29	31

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

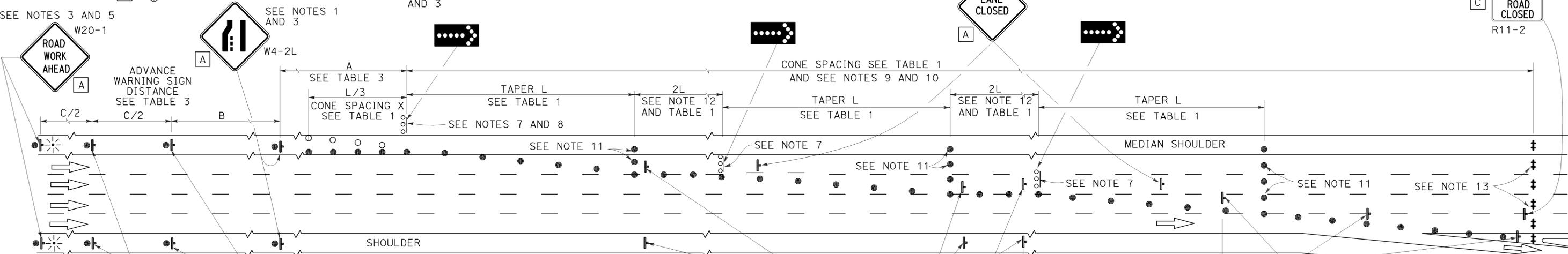
REGISTERED PROFESSIONAL ENGINEER  
 Gurinderpal Bhullar  
 No. C48815  
 Exp. 9-30-14  
 CIVIL  
 STATE OF CALIFORNIA

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:** See Revised Standard Plan RSP T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.  
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



**LANE CLOSURE WITH PARTIAL SHOULDER USE**



**COMPLETE CLOSURE**

**NOTES:**

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_ MILES", use a C20(CA) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

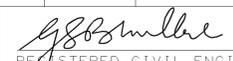
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURES ON  
 FREEWAYS AND EXPRESSWAYS**  
 NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T10A**

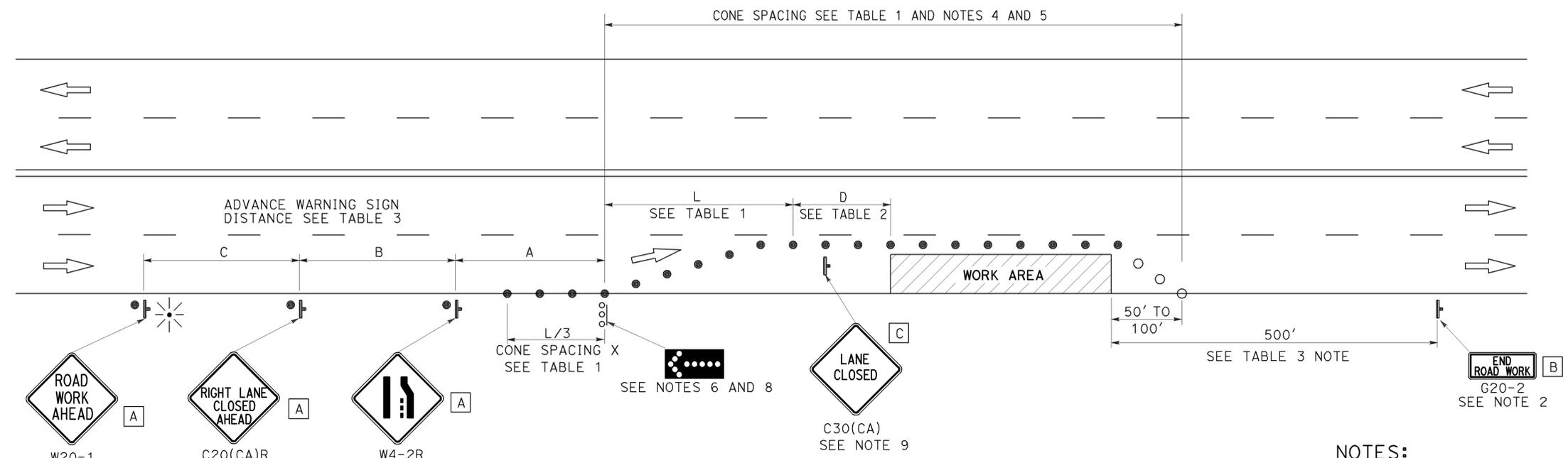
2010 REVISED STANDARD PLAN RSP T10A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	30	31

  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE  
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.



TO ACCOMPANY PLANS DATED 01/26/2015



**TYPICAL LANE CLOSURE**

**NOTES:**

See Revised Standard Plan RSP T9 for tables.  
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.  
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.  
 California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

**NOTES:**

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
- A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_\_\_ MILES", use a C20(CA) sign for the first advance warning sign.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

**LEGEND**

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ⌋ TEMPORARY TRAFFIC CONTROL SIGN
-  FLASHING ARROW SIGN (FAS)
-  FAS SUPPORT OR TRAILER
-  PORTABLE FLASHING BEACON

**SIGN PANEL SIZE (Min)**

- A 48" x 48"
- B 36" x 18"
- C 30" x 30"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR LANE CLOSURE ON  
 MULTILANE CONVENTIONAL  
 HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11  
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP T11**

2010 REVISED STANDARD PLAN RSP T11

# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

## LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

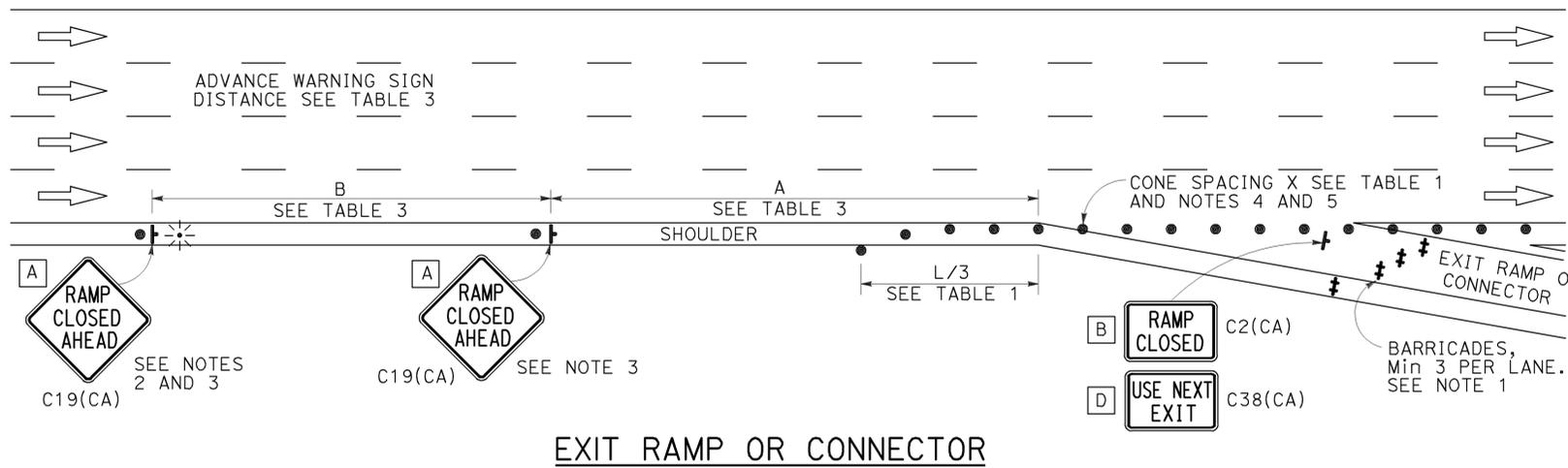
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	55,5	9.6/12.0 29.6/31.1	31	31

*Gurinderpal Bhullar*  
 REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

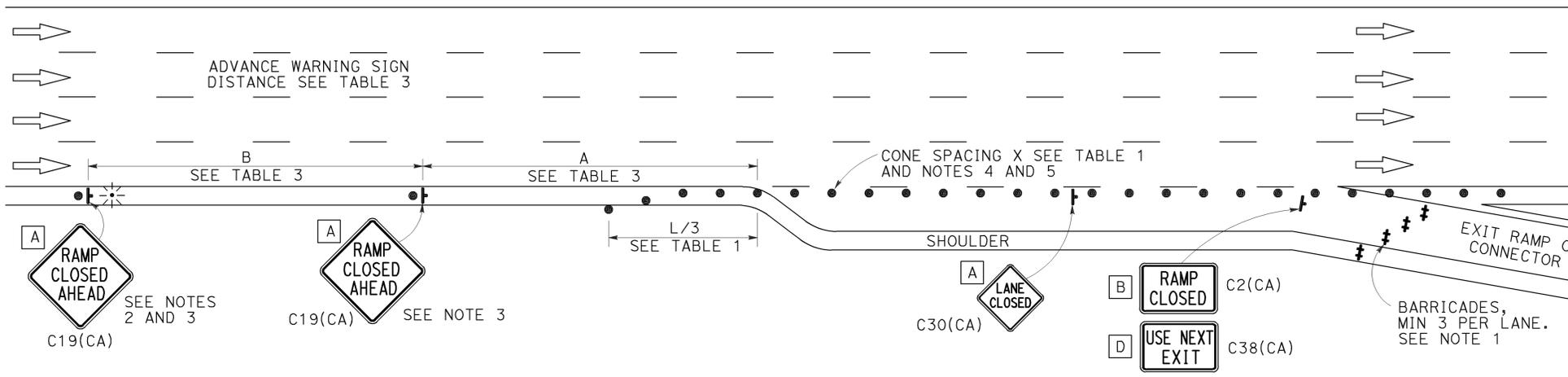
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TO ACCOMPANY PLANS DATED 01/26/2015

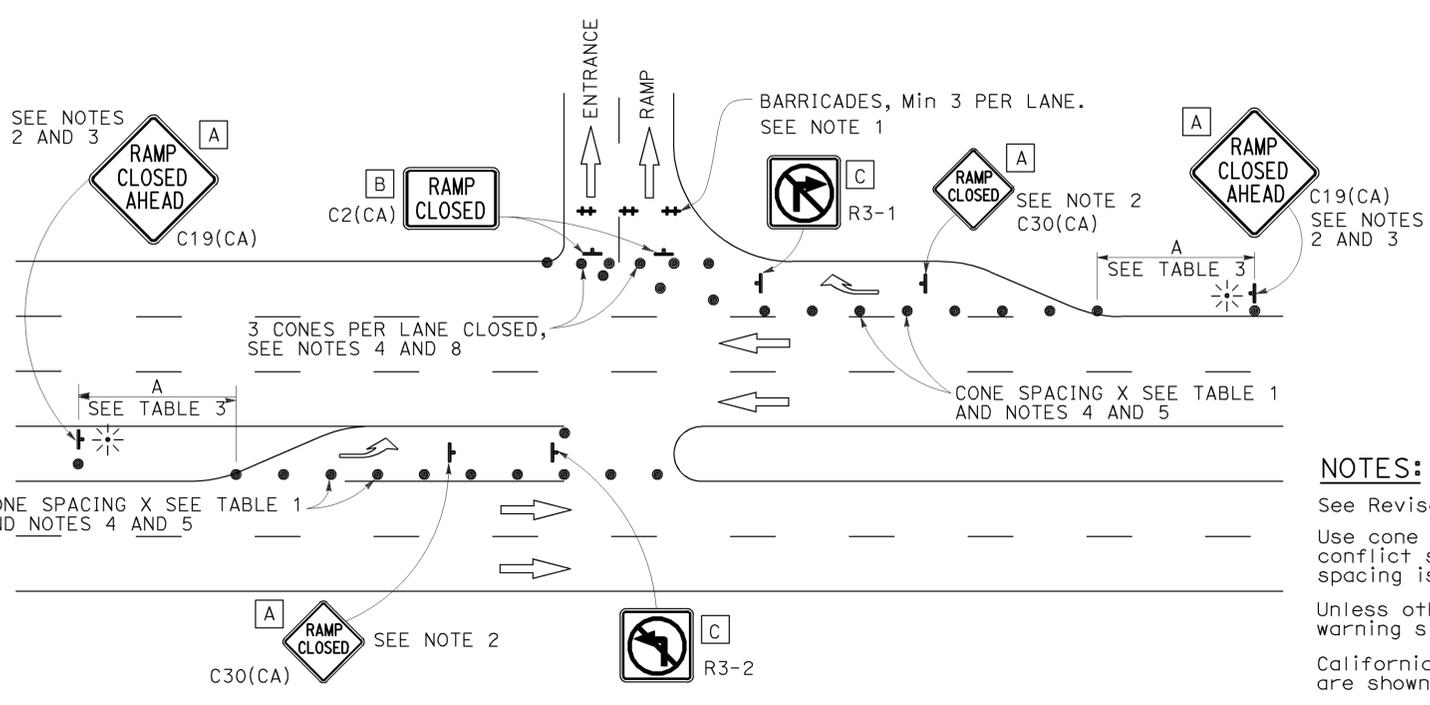
2010 REVISED STANDARD PLAN RSP T14



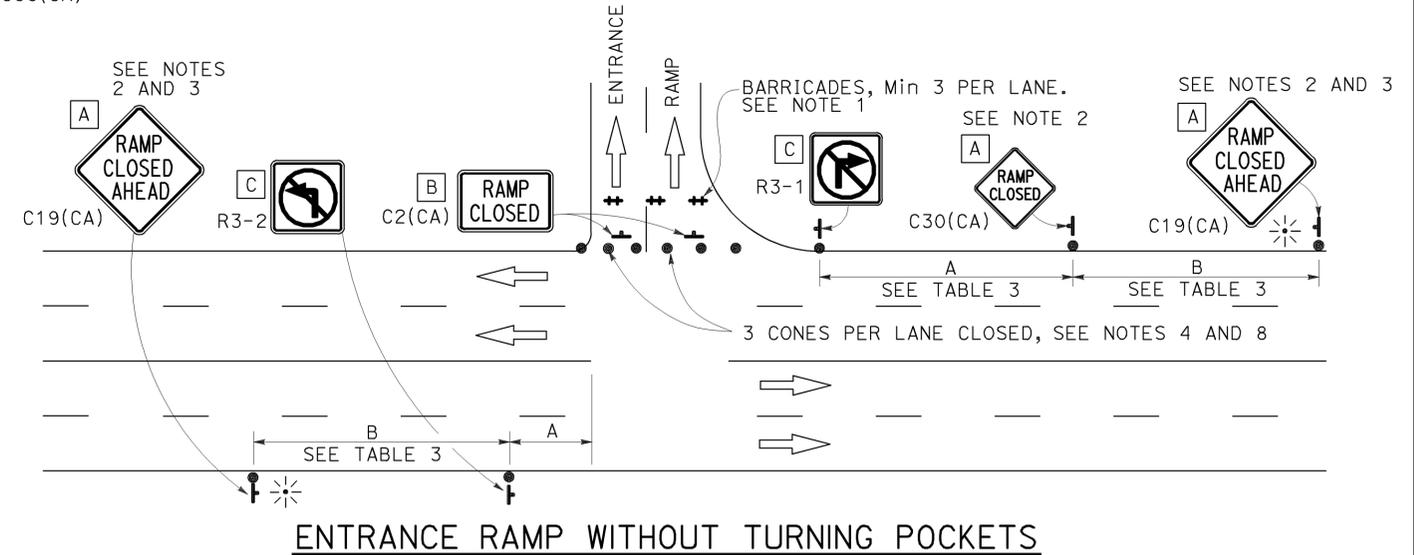
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

1. See Revised Standard Plan RSP T9 for tables.
2. Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
3. Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
4. California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

## NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19(CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" signs shall be covered during ramp closures.
8. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL SYSTEM  
 FOR RAMP CLOSURE**  
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14  
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.  
**REVISED STANDARD PLAN RSP T14**