

INDEX OF PLANS

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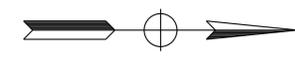
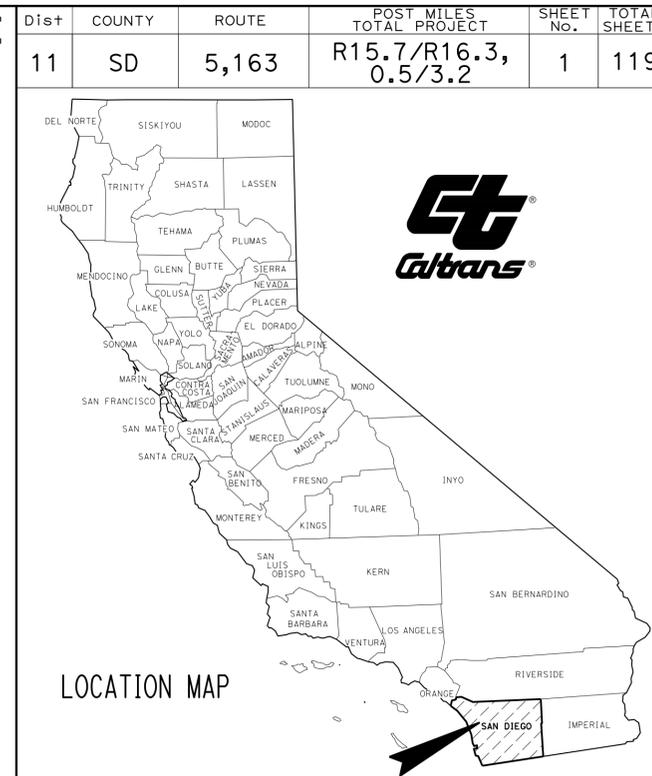
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

ACNHP-0051(626)E

PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY  
IN SAN DIEGO COUNTY IN SAN DIEGO ON ROUTE 5  
FROM 0.1 MILE SOUTH OF PARK BOULEVARD OVERCROSSING  
TO 6TH AVENUE OVERCROSSING AND ON ROUTE 163  
FROM "A" STREET TO 0.2 MILE NORTH  
OF 6TH AVENUE ON-RAMP UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



**BEGIN CONSTRUCTION (ROUTE 163)**  
Sta "SD-163R" 40+44 PM 0.5

**END CONSTRUCTION (ROUTE 163)**  
Sta "SD-163" 180+20 PM 3.2

**END CONSTRUCTION (ROUTE 5)**  
Sta "SD-5" 893+25 PM R16.3

**Begin Work**  
Sta "SD-163R" 36+50

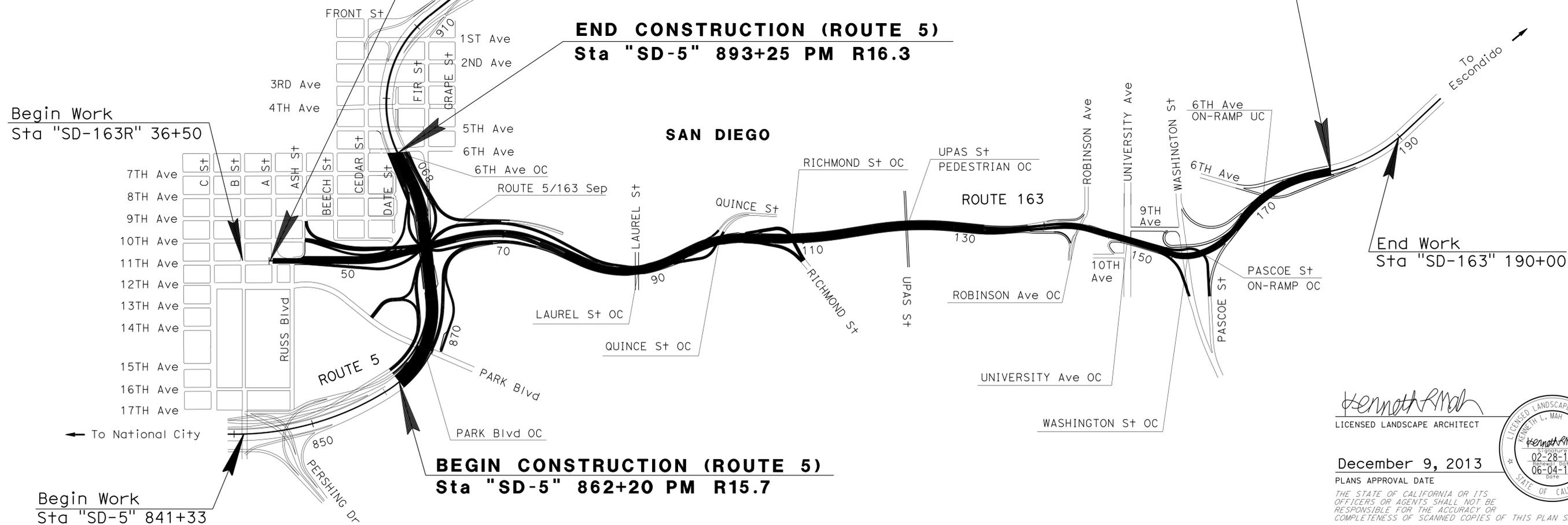
**End Work**  
Sta "SD-163" 190+00

**BEGIN CONSTRUCTION (ROUTE 5)**  
Sta "SD-5" 862+20 PM R15.7

**Begin Work**  
Sta "SD-5" 841+33

PROJECT MANAGER  
LOU MELENDEZ

SENIOR LANDSCAPE ARCHITECT  
STEPHEN ALVAREZ



*Kenneth L. Mah*  
KENNETH L. MAH  
LICENSED LANDSCAPE ARCHITECT  
December 9, 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.

CONTRACT No.	11-265014
PROJECT ID	1100020306

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

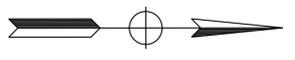
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RUDY MEDINA  
 CHECKED BY  
 KENNY MAH  
 CALCULATED/DESIGNED BY  
 RUDY MEDINA  
 REVISED BY  
 KENNY MAH  
 DATE REVISION

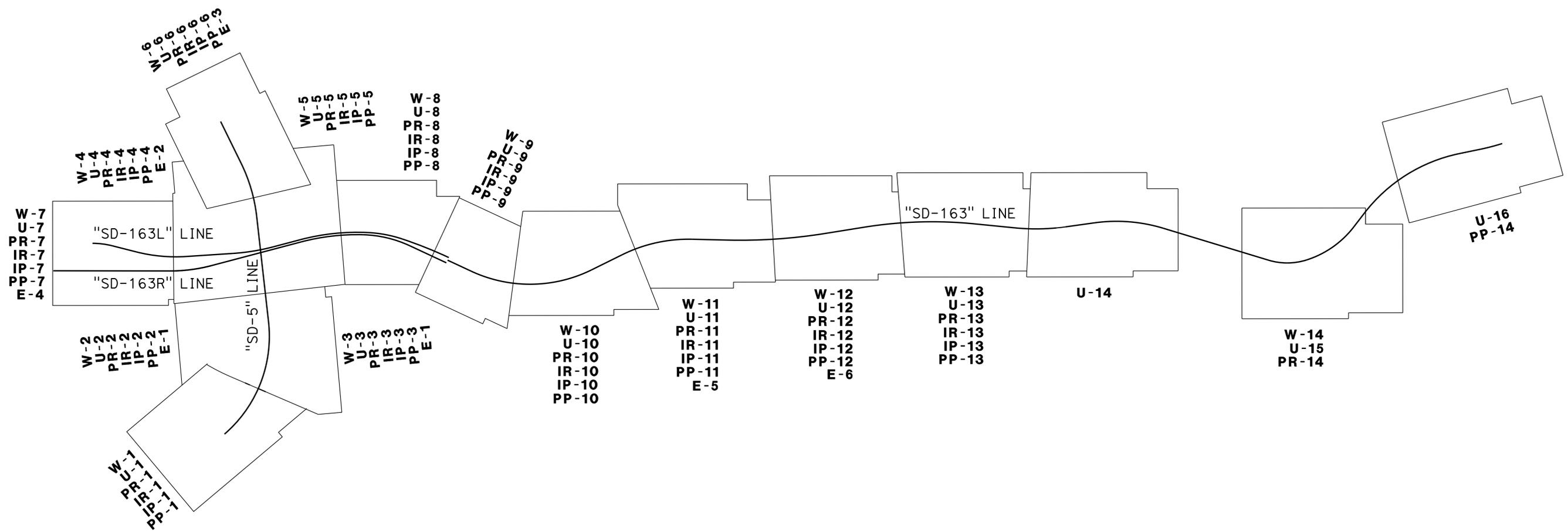
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	2	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.



SAN DIEGO



KEY MAP AND LINE INDEX  
 NO SCALE  
 K-1

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	3	119

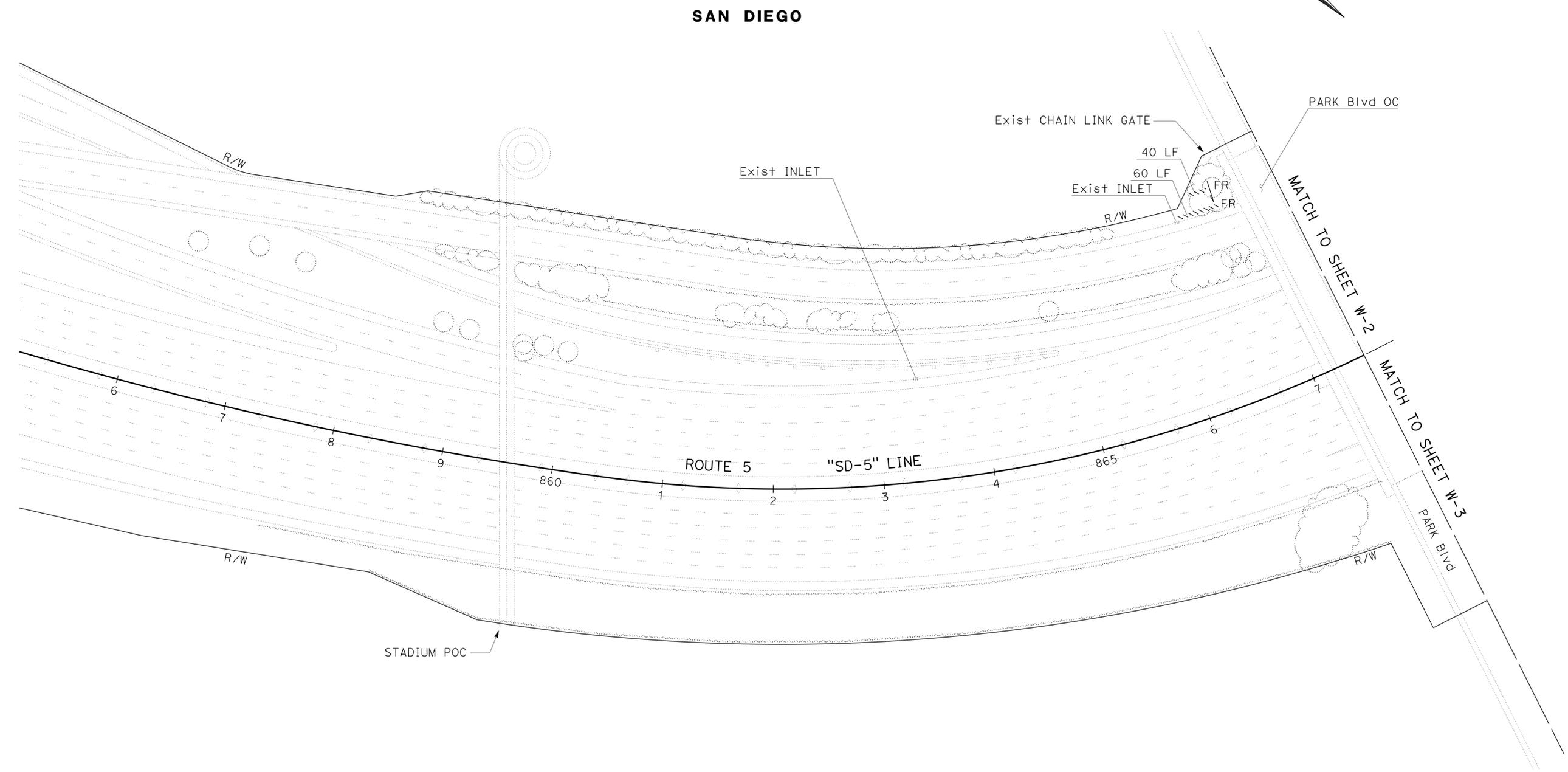
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH NO. 30630  
 02-28-14  
 06-04-13  
 STATE OF CALIFORNIA

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

**LEGEND:**  
 - DIRECTION OF SLOPE



**SAN DIEGO**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	RAFAEL AMBROSI	KENNY MAH
	SENIOR LANDSCAPE ARCHITECT	CHECKED BY
	DESIGNED BY	STEPHEN ALVAREZ

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

SCALE: 1" = 50'

**WATER POLLUTION  
 CONTROL PLAN  
 W-1**

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37

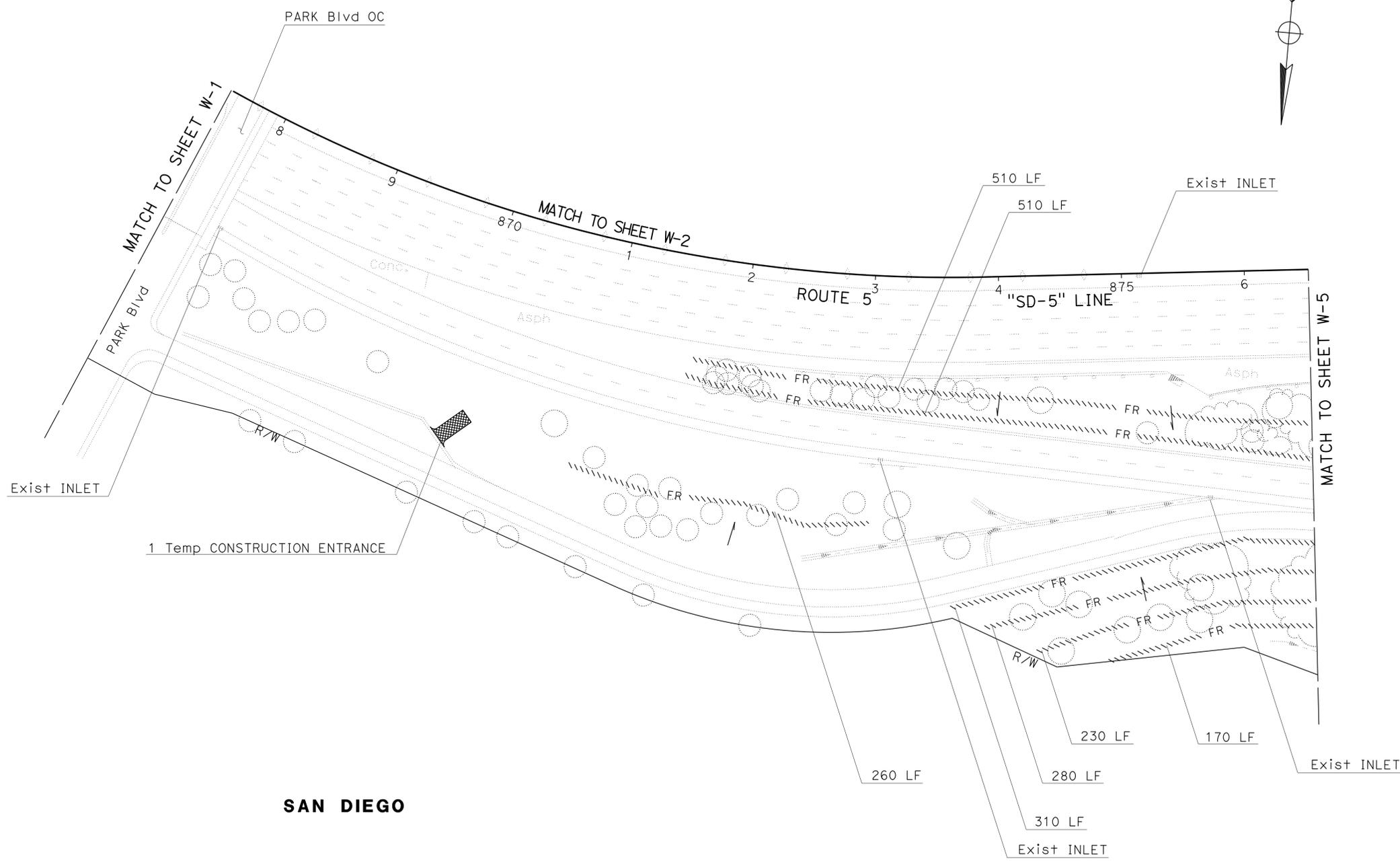


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	5	119

 LICENSED LANDSCAPE ARCHITECT		
12-09-13 PLANS APPROVAL DATE		
<small>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.</small>		

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	RAFAEL AMBROSI	
	KENNY MAH	
SENIOR LANDSCAPE ARCHITECT	CHECKED BY	
STEPHEN ALVAREZ	DESIGNED BY	
	REVISOR	DATE
	RAFAEL AMBROSI	
	KENNY MAH	

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37



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

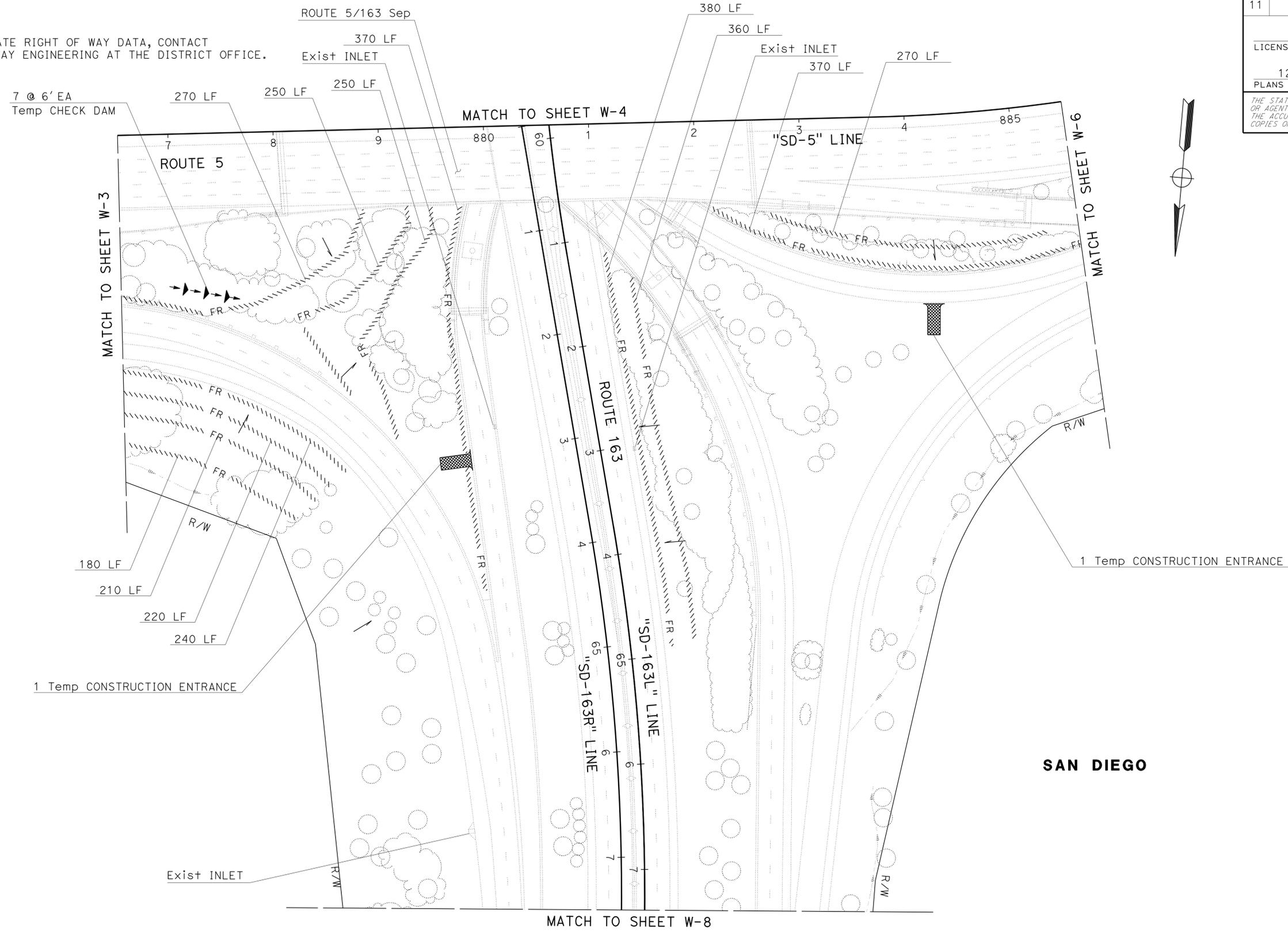
SENIOR LANDSCAPE ARCHITECT  
 STEPHEN ALVAREZ

CALCULATED-DESIGNED BY  
 CHECKED BY

RAFAEL AMBROSI  
 KENNY MAH

REVISED BY  
 DATE REVISED

**NOTE:**  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	7	119

*Kenny Mah*  
 LICENSED LANDSCAPE ARCHITECT

12-09-13  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA  
 LICENSED LANDSCAPE ARCHITECT  
 KENNY L. MAH NO. 3000  
 02-28-14  
 06-04-13  
 Date

SAN DIEGO

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

SCALE: 1" = 50'

**WATER POLLUTION  
 CONTROL PLAN  
 W-5**

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37

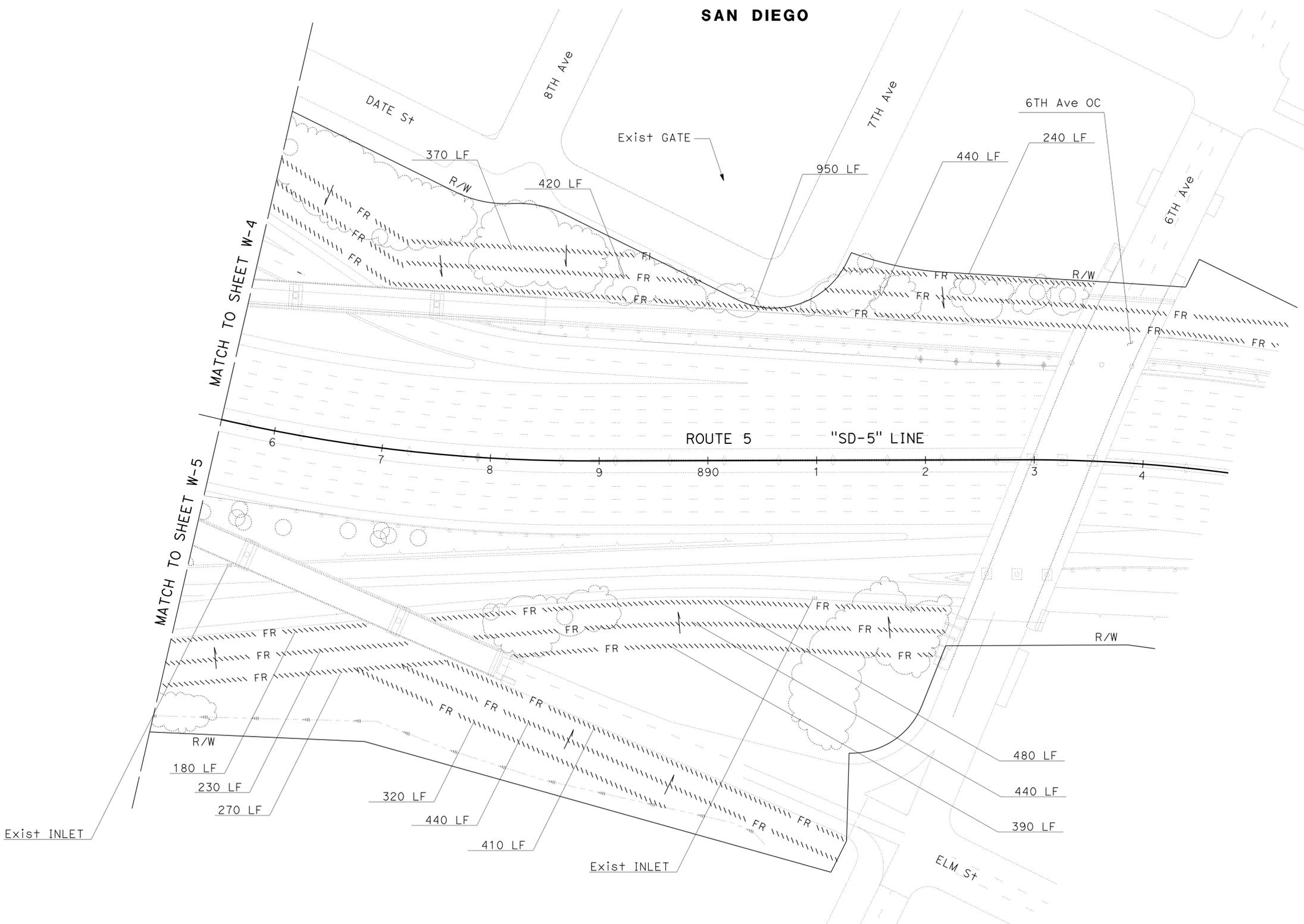
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	8	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE REVISED
		RAFAEL AMBROSI	
		KENNY MAH	



APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

SCALE: 1" = 50'

**WATER POLLUTION  
 CONTROL PLAN  
 W-6**

LAST REVISION | DATE PLOTTED => 09-DEC-2013 | TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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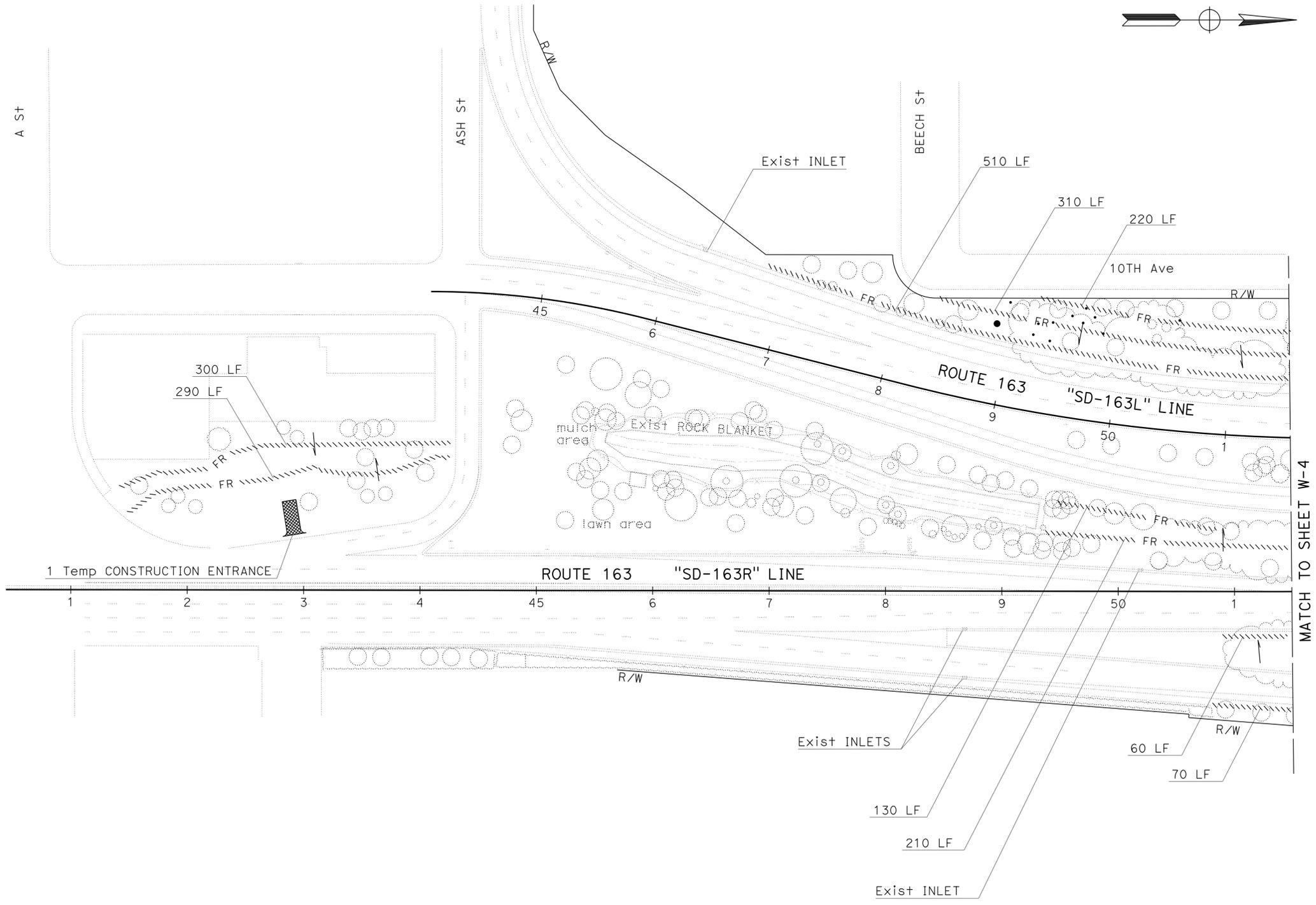
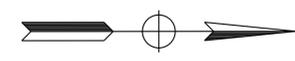
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH NO. 30630  
 02-28-14  
 06-04-13

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

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE REVISED

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

**WATER POLLUTION CONTROL PLAN**  
**W-7**  
 SCALE: 1" = 50'

LAST REVISION | DATE PLOTTED => 09-DEC-2013 12-06-13 | TIME PLOTTED => 14:37



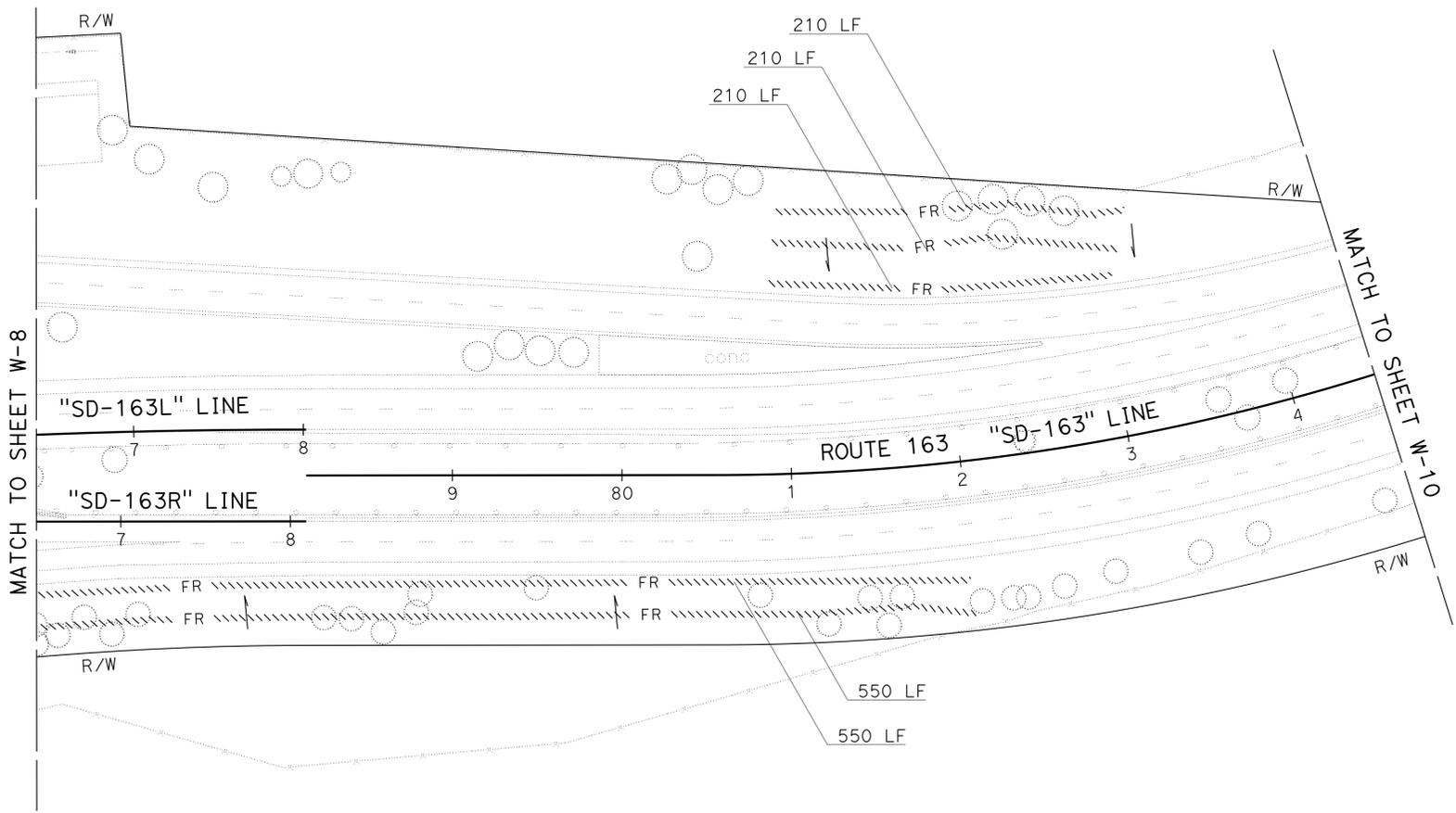
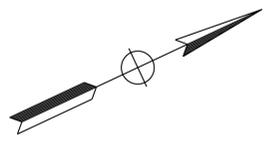
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	11	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	RAFAEL AMBROSI	REVISED BY
<b>Caltrans</b>		STEPHEN ALVAREZ	CHECKED BY	KENNY MAH	DATE REVISED

**SAN DIEGO**



APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

**WATER POLLUTION CONTROL PLAN**  
**W-9**  
 SCALE: 1" = 50'

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37



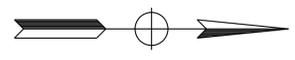
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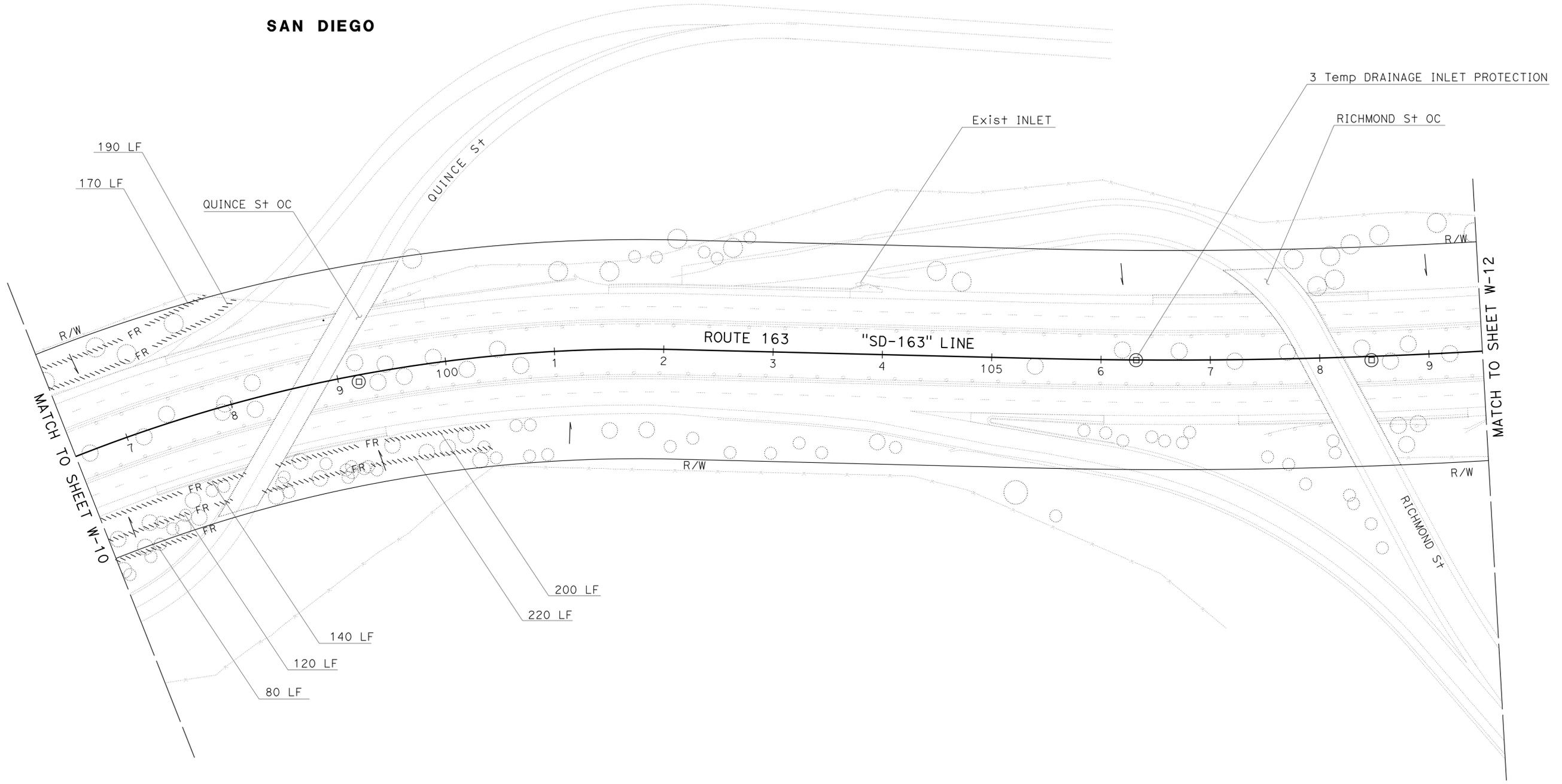
<i>Kenneth L. Mah</i> LICENSED LANDSCAPE ARCHITECT	
12-09-13 PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	



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



**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE REVISED
		RAFael AMBROSI	
		KENNY MAH	

**WATER POLLUTION  
CONTROL PLAN  
W-11**

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

SCALE: 1" = 50'



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	15	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

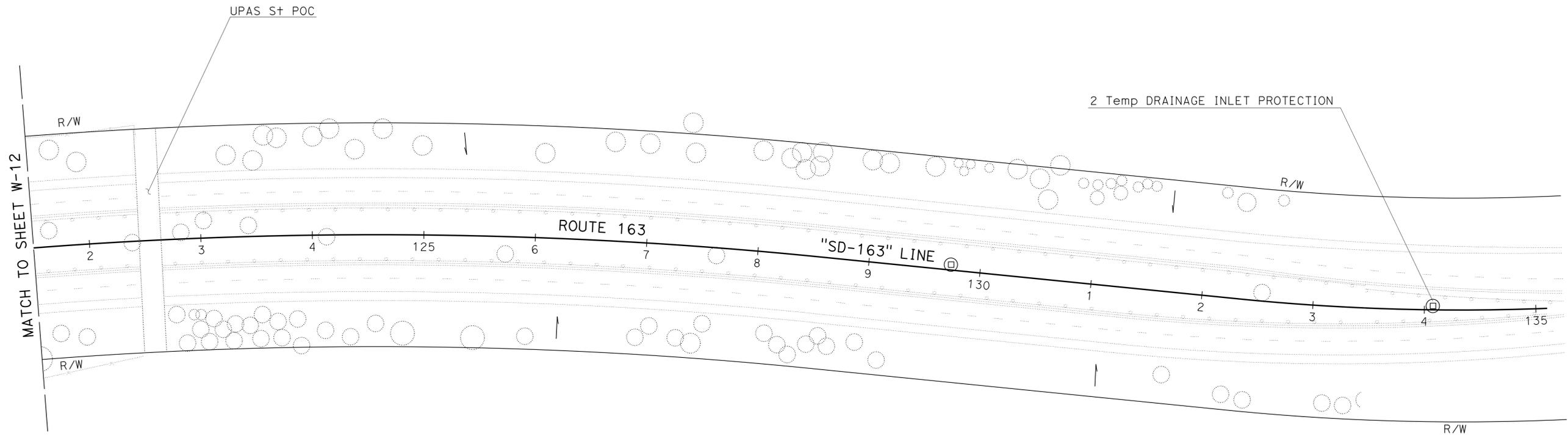
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**NOTE:**

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



**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	RAFAEL AMBROSI	REVISED BY	
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	KENNY MAH	DATE REVISED	

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

SCALE: 1" = 50'

**WATER POLLUTION CONTROL PLAN**  
**W-13**



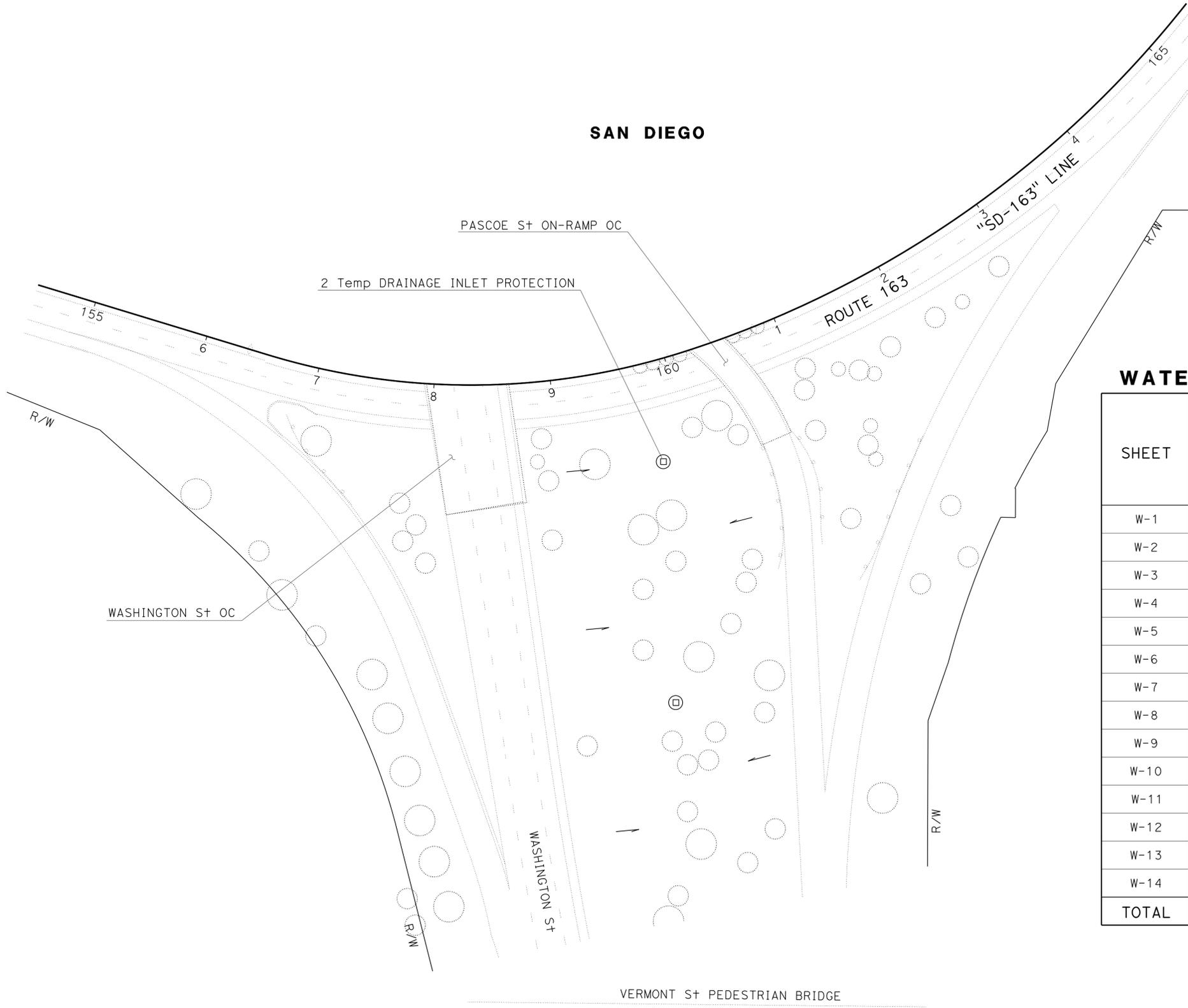
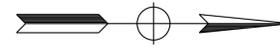
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	16	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH NO. 30630  
 02-28-14  
 06-04-13

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



**WATER POLLUTION CONTROL QUANTITIES**

SHEET	FIBER ROLLS (LF)	TEMPORARY CHECK DAM (6 LF EA)	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY DRAINAGE INLET PROTECTION
		(TYPE 2) (LF)	(TYPE 2) (EA)	(TYPE 4A) (EA)
W-1	100	-	-	-
W-2	520	-	-	-
W-3	2,270	-	1	-
W-4	7,370	-	-	1
W-5	3,370	42	2	-
W-6	5,580	-	-	-
W-7	2,100	-	1	-
W-8	2,660	-	1	-
W-9	1,730	-	-	-
W-10	570	-	-	2
W-11	1,120	-	-	3
W-12	-	-	-	2
W-13	-	-	-	2
W-14	-	-	-	2
<b>TOTAL</b>	<b>27,390</b>	<b>42</b>	<b>5</b>	<b>12</b>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]  
 RAFAEL AMBROSI: KENNY MAH  
 REVISED BY: [blank] DATE REVISED: [blank]

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

**WATER POLLUTION CONTROL  
 PLAN AND QUANTITIES**  
 SCALE: 1" = 50'  
**W-14**

LAST REVISION DATE PLOTTED => 09-DEC-2013  
 12-06-13 TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	17	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

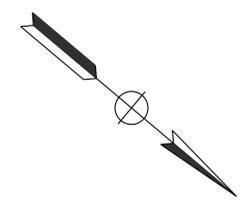
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 CIVIL  
 STATE OF CALIFORNIA

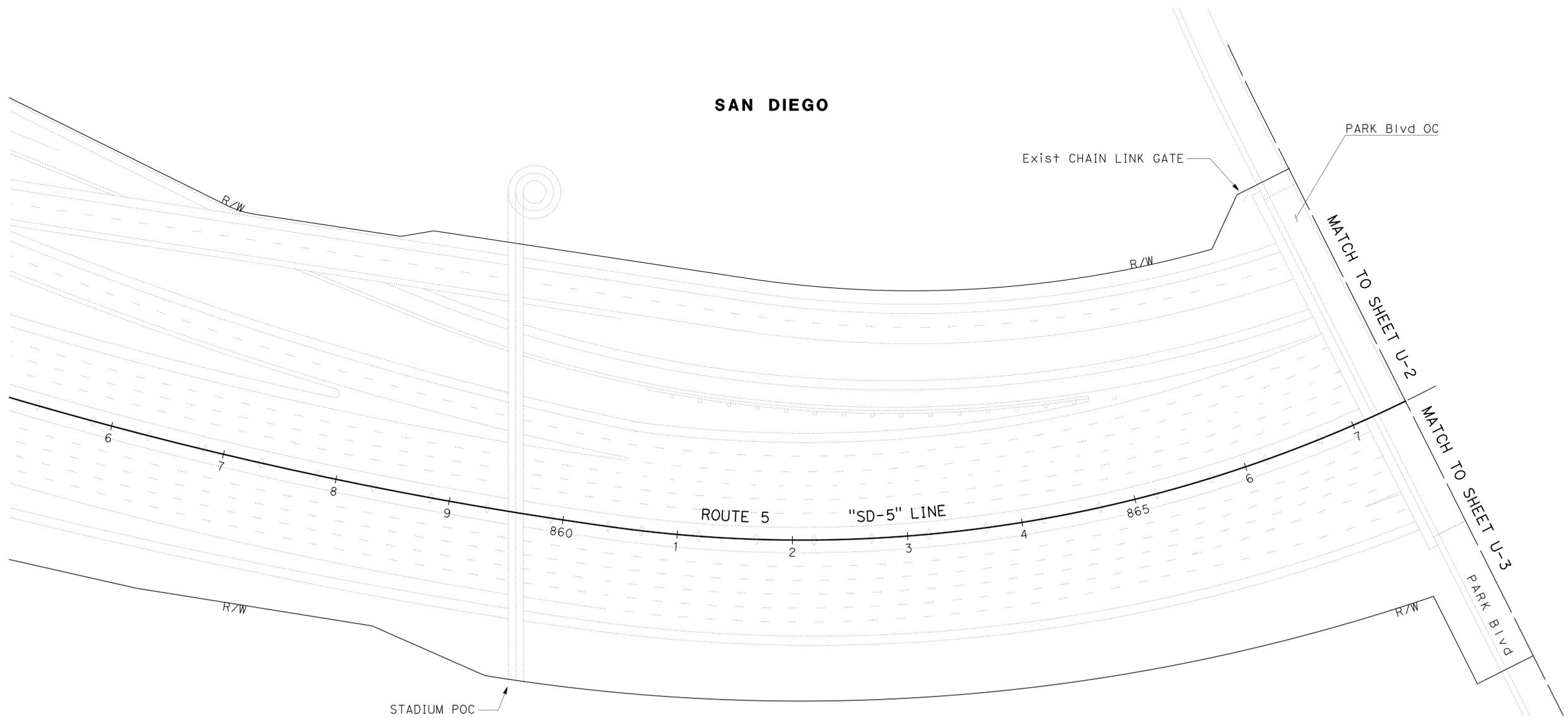
- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - UTILITY OWNERSHIP:
 

SEWER	CITY OF SAN DIEGO
ELECTRIC	SAN DIEGO GAS & ELECTRIC
FIBER OPTIC	CITY OF SAN DIEGO
FIBER OPTIC	CROWN CASTLE
FIBER OPTIC	LEVEL 3 COMMUNICATIONS
TELEPHONE	AT&T
CABLE TV	TIME WARNER CABLE
NATURAL GAS	SAN DIEGO GAS & ELECTRIC
WATER	CITY OF SAN DIEGO

- ABBREVIATIONS:**
- HP GAS HIGH PRESSURE GAS/HIGH RISK  
 PE POLYETHYLENE  
 RCSP REINFORCED CONCRETE STEEL PIPE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** PROJECT DEVELOPMENT  
 FUNCTIONAL SUPERVISOR: ABU-BAKR AL-JAFRI  
 CALCULATED/DESIGNED BY: MICHAEL PEDERSEN  
 CHECKED BY: LANCHI HOANG  
 REVISOR: MICHAEL PEDERSEN  
 DATE: 06-04-13  
 REVISION: 12-09-13



APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN U-1**

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37

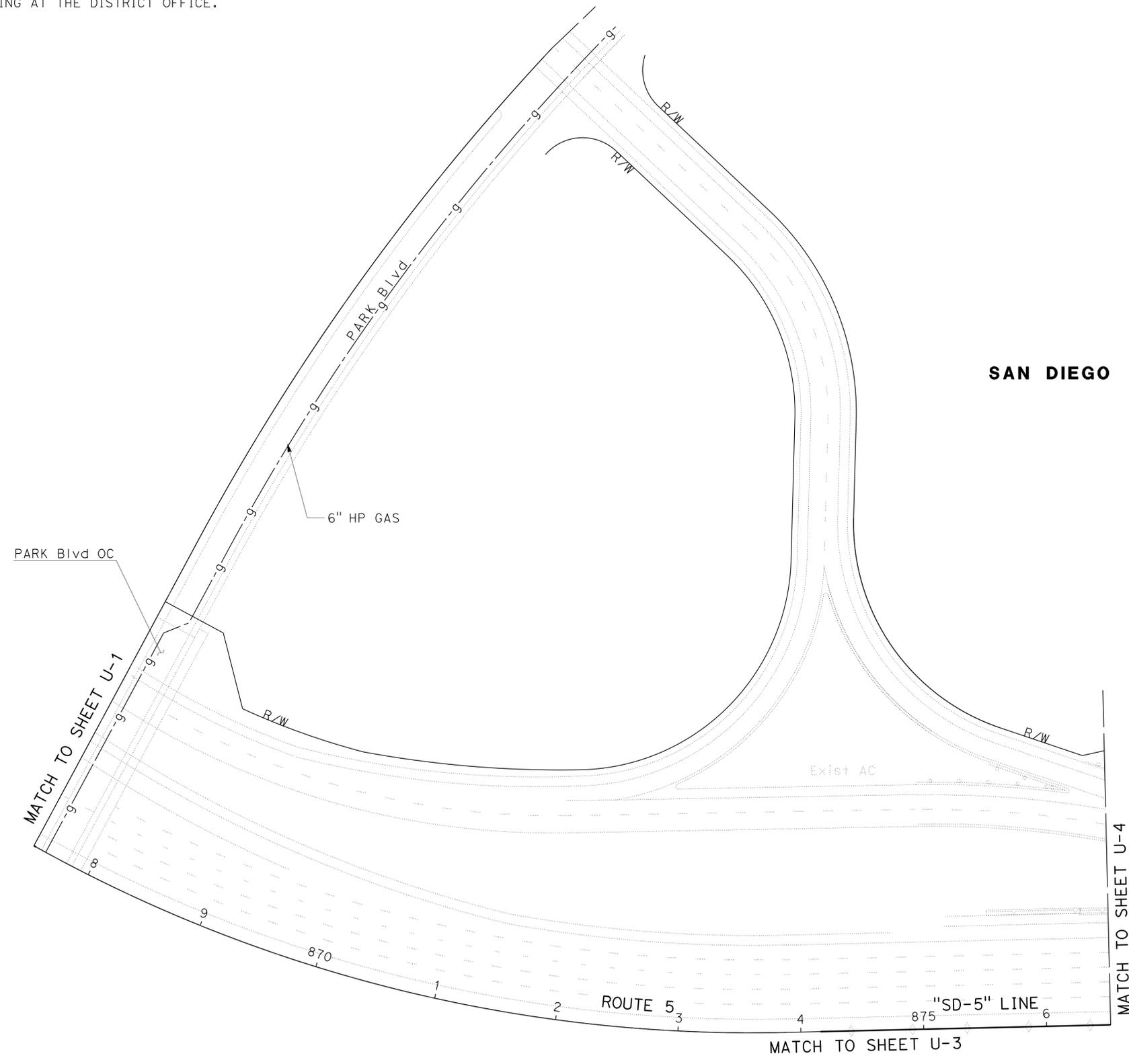
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	18	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 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.

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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** PROJECT DEVELOPMENT  
 FUNCTIONAL SUPERVISOR: ABU-BAKR AL-JAFRI  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 LANCHI HOANG MICHAEL PEDERSEN  
 REVISED BY: DATE REVISED:

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'  
**UTILITY PLAN  
 U-2**

LAST REVISION DATE PLOTTED => 09-DEC-2013  
 12-06-13 TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	19	119

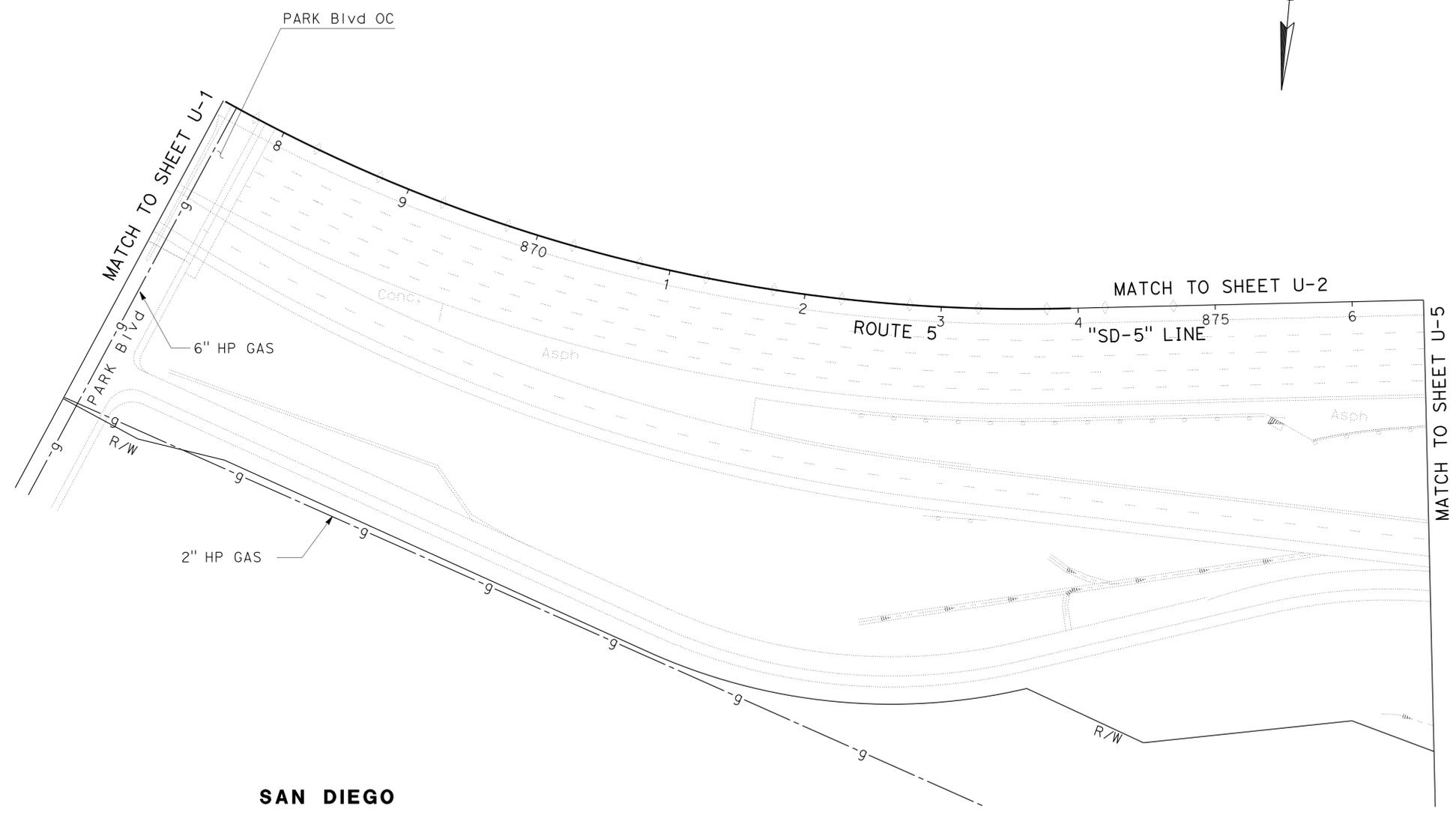
<i>Lanchi Hoang</i>	06-04-13
REGISTERED CIVIL ENGINEER	DATE
12-09-13	
PLANS APPROVAL DATE	

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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**SAN DIEGO**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	LANCHI HOANG	REVISED BY
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	MICHAEL PEDERSEN	DATE REVISED

APPROVED FOR UTILITY INFORMATION ONLY

**UTILITY PLAN**  
**U-3**

SCALE: 1" = 50'

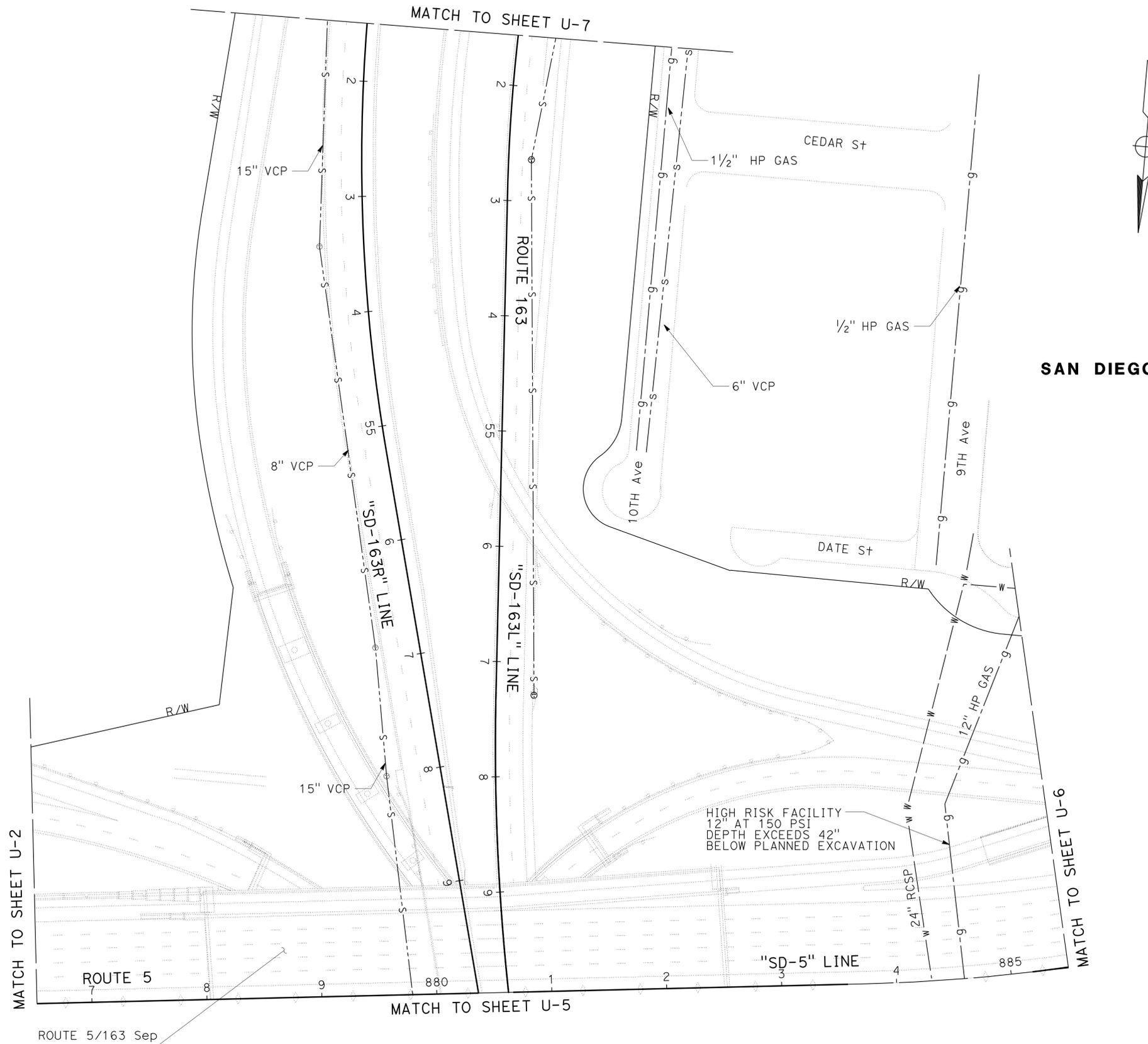
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	20	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 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  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 CIVIL  
STATE OF CALIFORNIA

**NOTE:**

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



SAN DIEGO

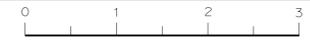


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	LANCHI HOANG
			MICHAEL PEDERSEN
			DATE REVISOR

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN U-4**



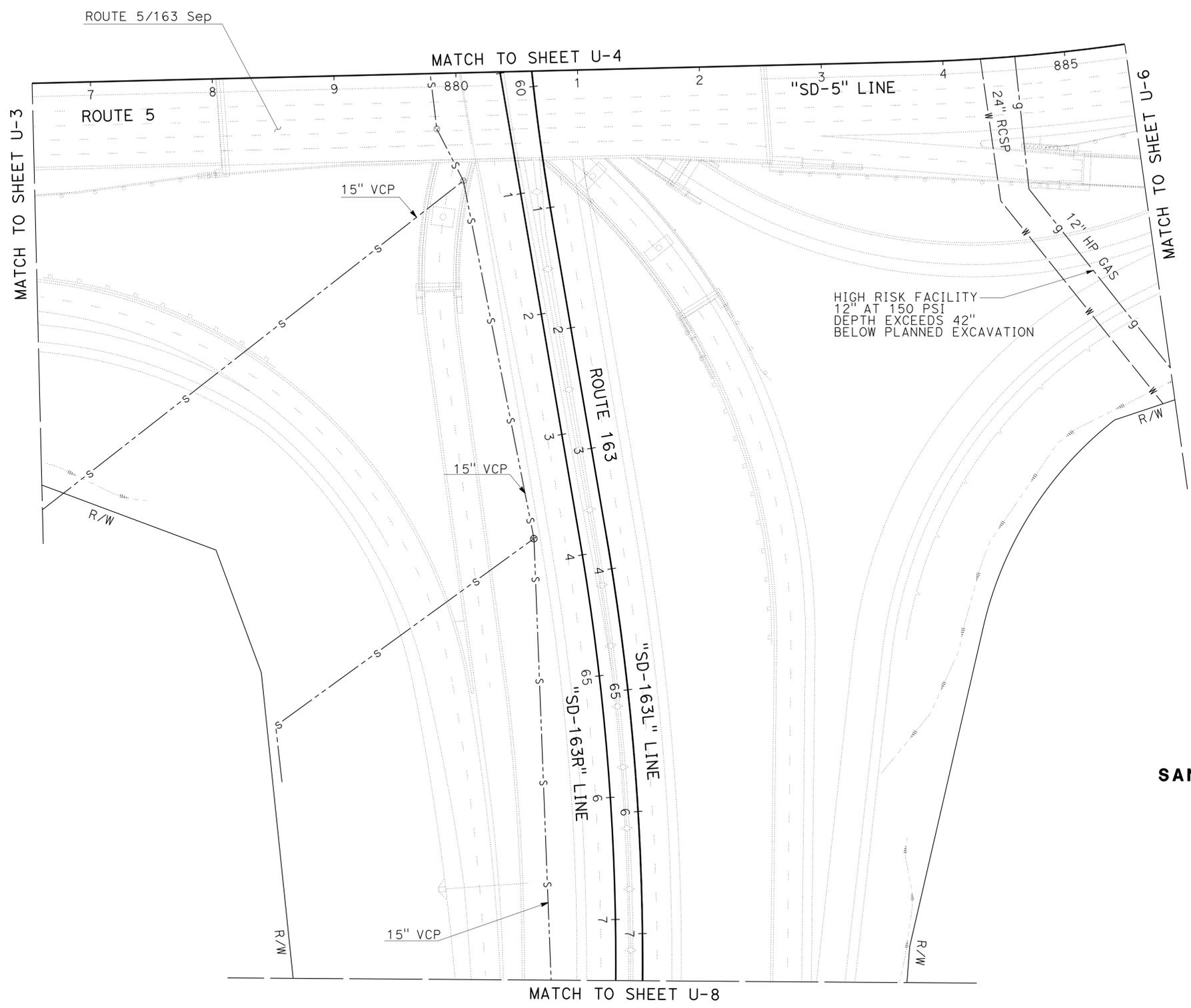
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	15.7/16.3, 0.5/3.2	21	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	LANCHI HOANG	REVISED BY
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	MICHAEL PEDERSEN	DATE REVISED

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN  
U-5**

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR  
 ABU-BAKR AL-JAFRI

CALCULATED-DESIGNED BY  
 CHECKED BY

LANCHI HOANG  
 MICHAEL PEDERSEN

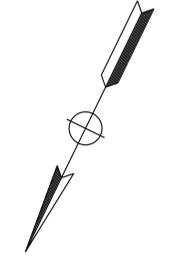
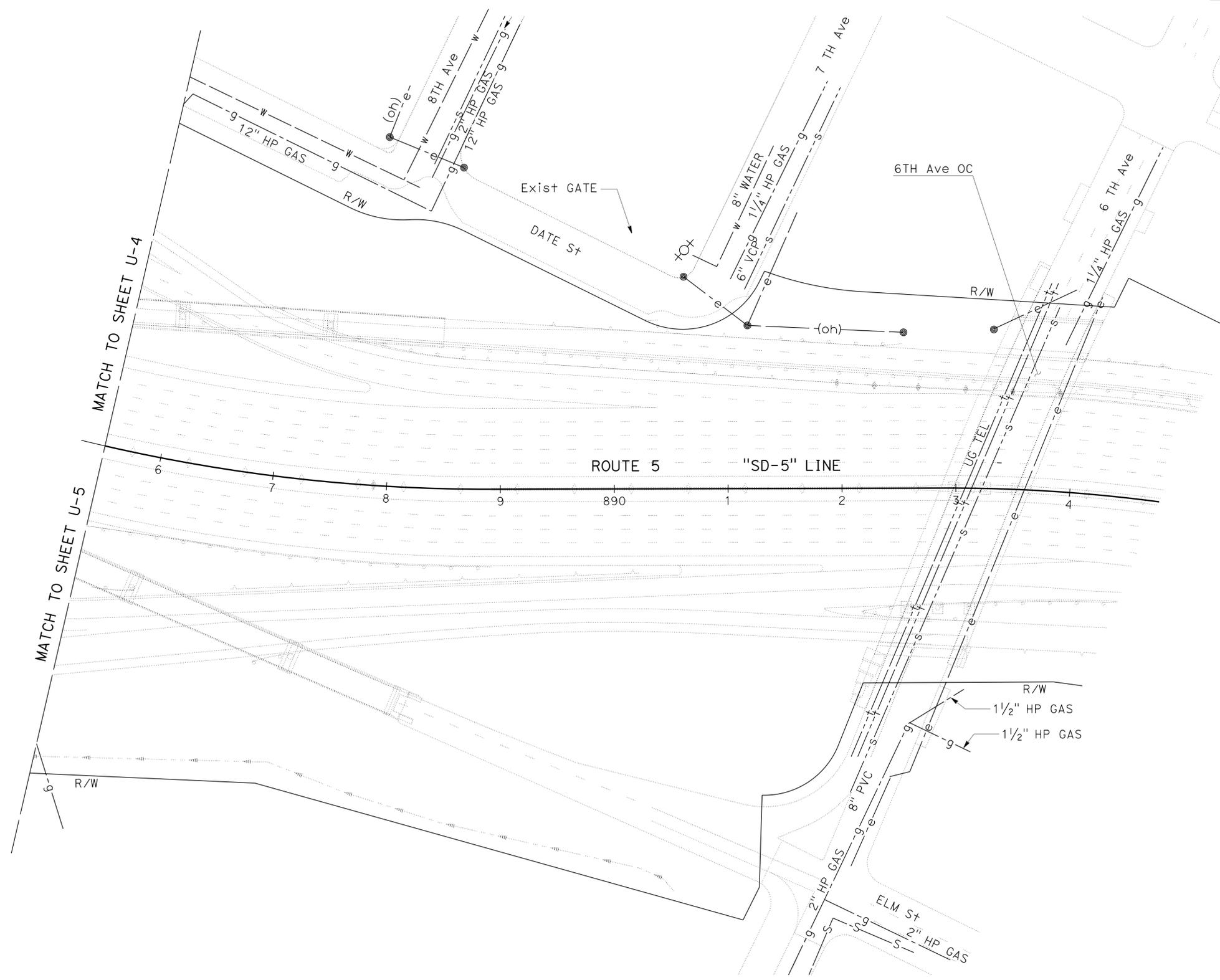
REVISED BY  
 DATE REVISED

**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
11	SD	5,163	R15.7/R16.3, 0.5/3.2	22	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 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.

**SAN DIEGO**



APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

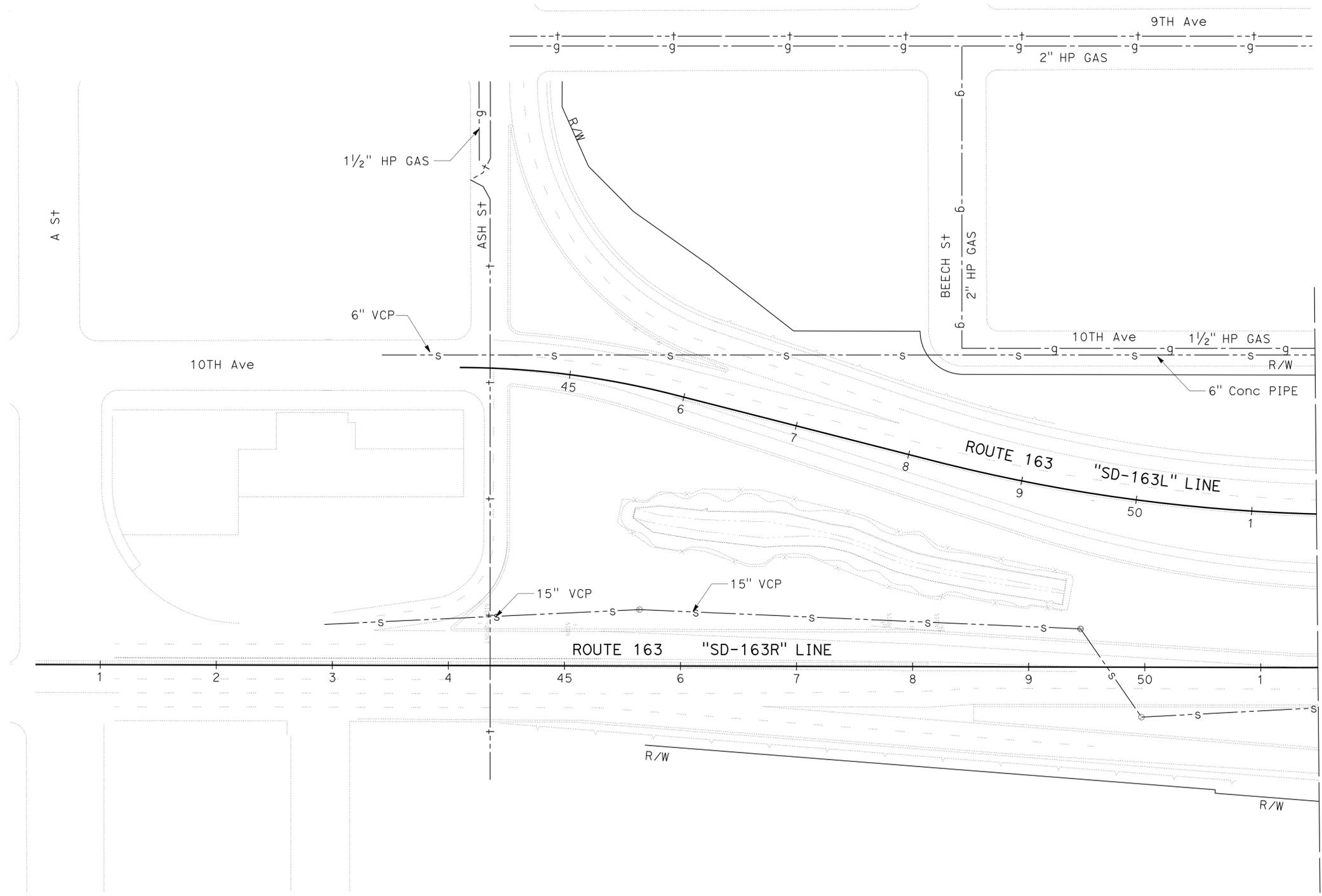
**UTILITY PLAN  
 U-6**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	23	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 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.

**SAN DIEGO**

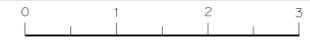


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	DATE
		LANCHI HOANG	REVISOR
		MICHAEL PEDERSEN	DATE

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN  
 U-7**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	24	119

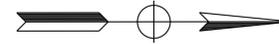
*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

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.

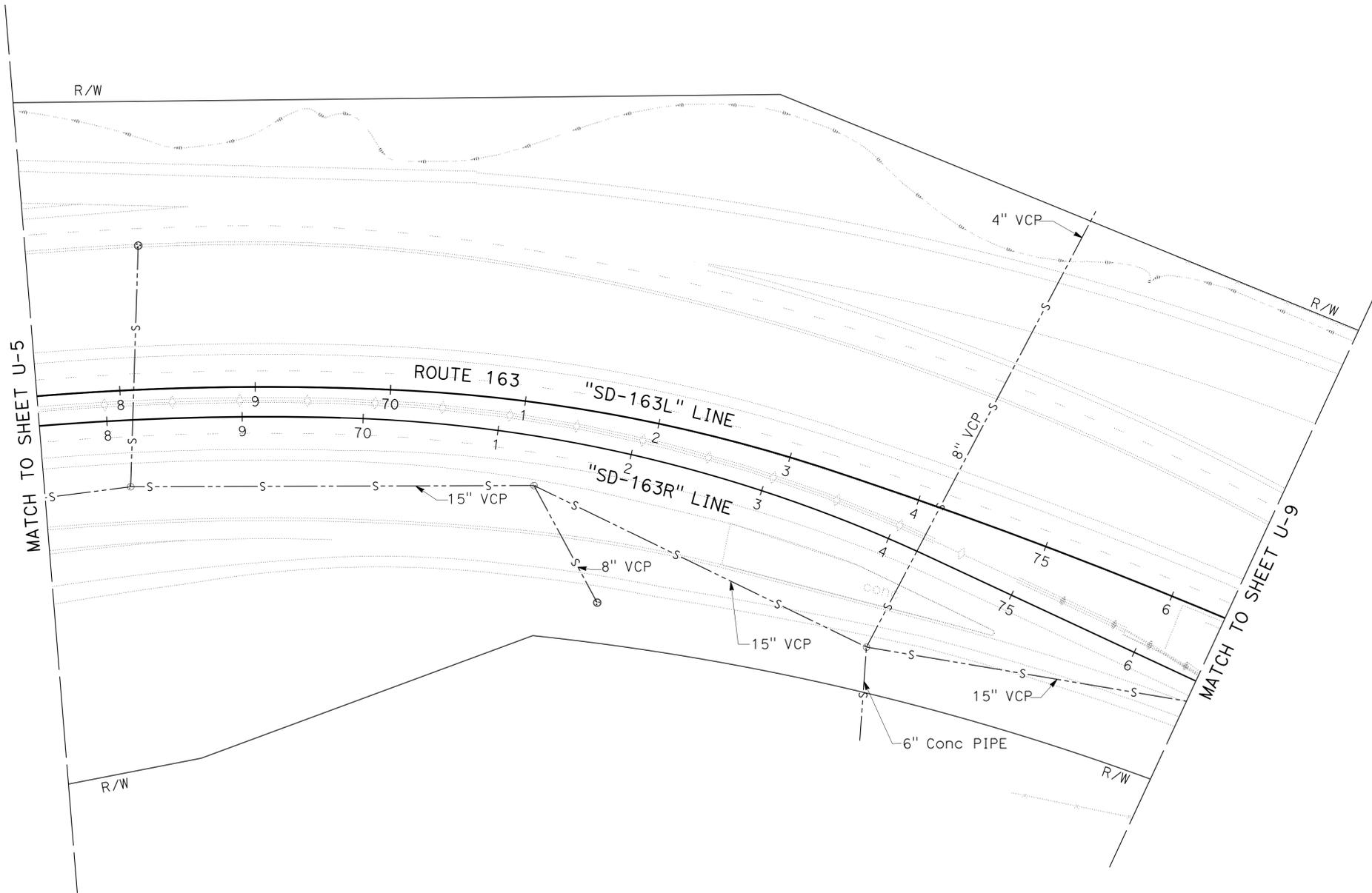
REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 CIVIL  
 STATE OF CALIFORNIA

**NOTE:**

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



**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	LANCHI HOANG
			MICHAEL PEDERSEN
			DATE
			REVISED

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN  
U-8**

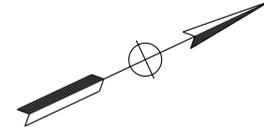
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	25	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

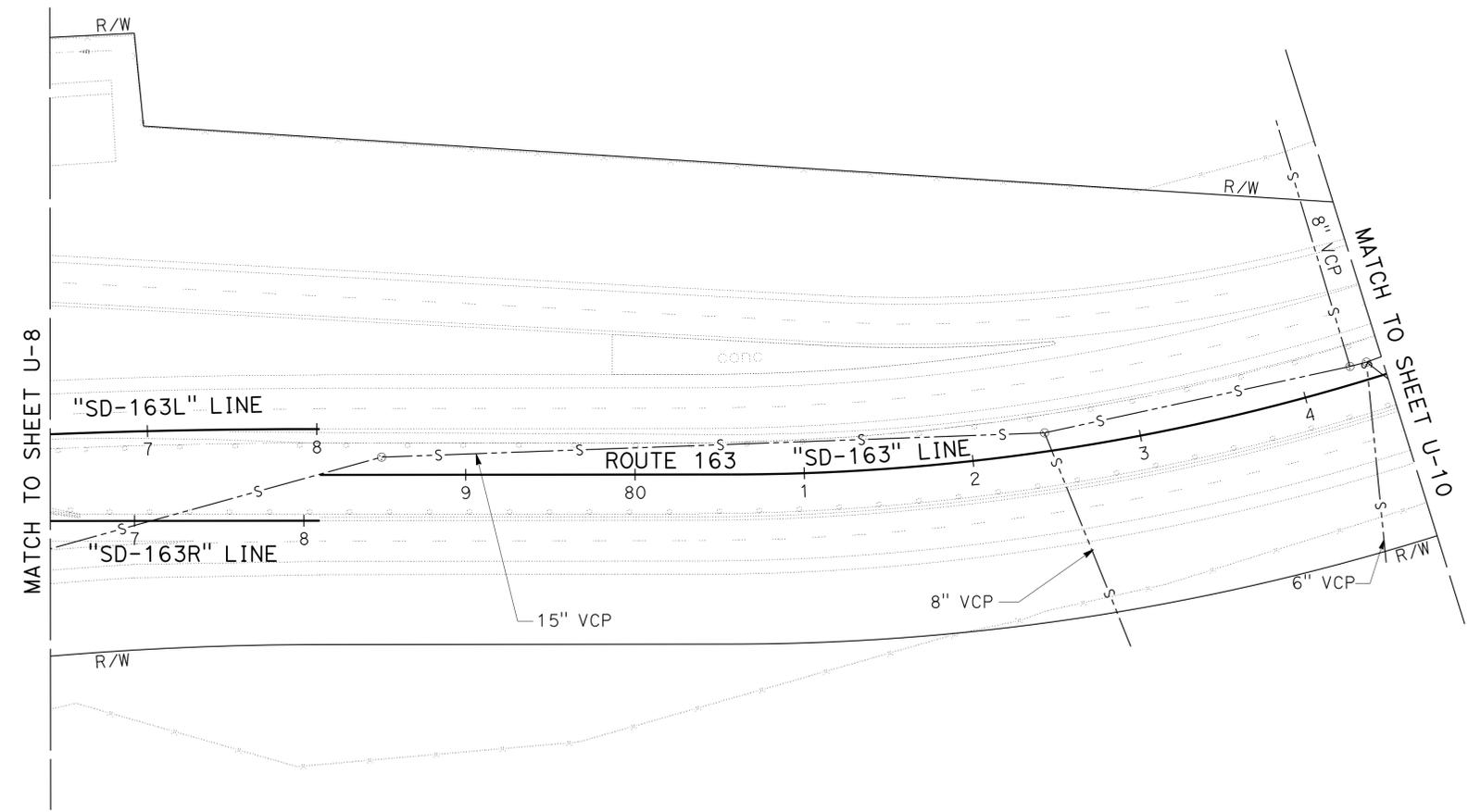
REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 CIVIL  
 STATE OF CALIFORNIA

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



**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	LANCHI HOANG
			MICHAEL PEDERSEN
			DATE
			REVISED

APPROVED FOR UTILITY INFORMATION ONLY

**UTILITY PLAN**  
**U-9**  
 SCALE: 1" = 50'

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	27	119

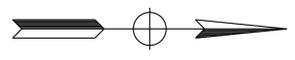
<i>Lanchi Hoang</i>	06-04-13
REGISTERED CIVIL ENGINEER	DATE
12-09-13	
PLANS APPROVAL DATE	

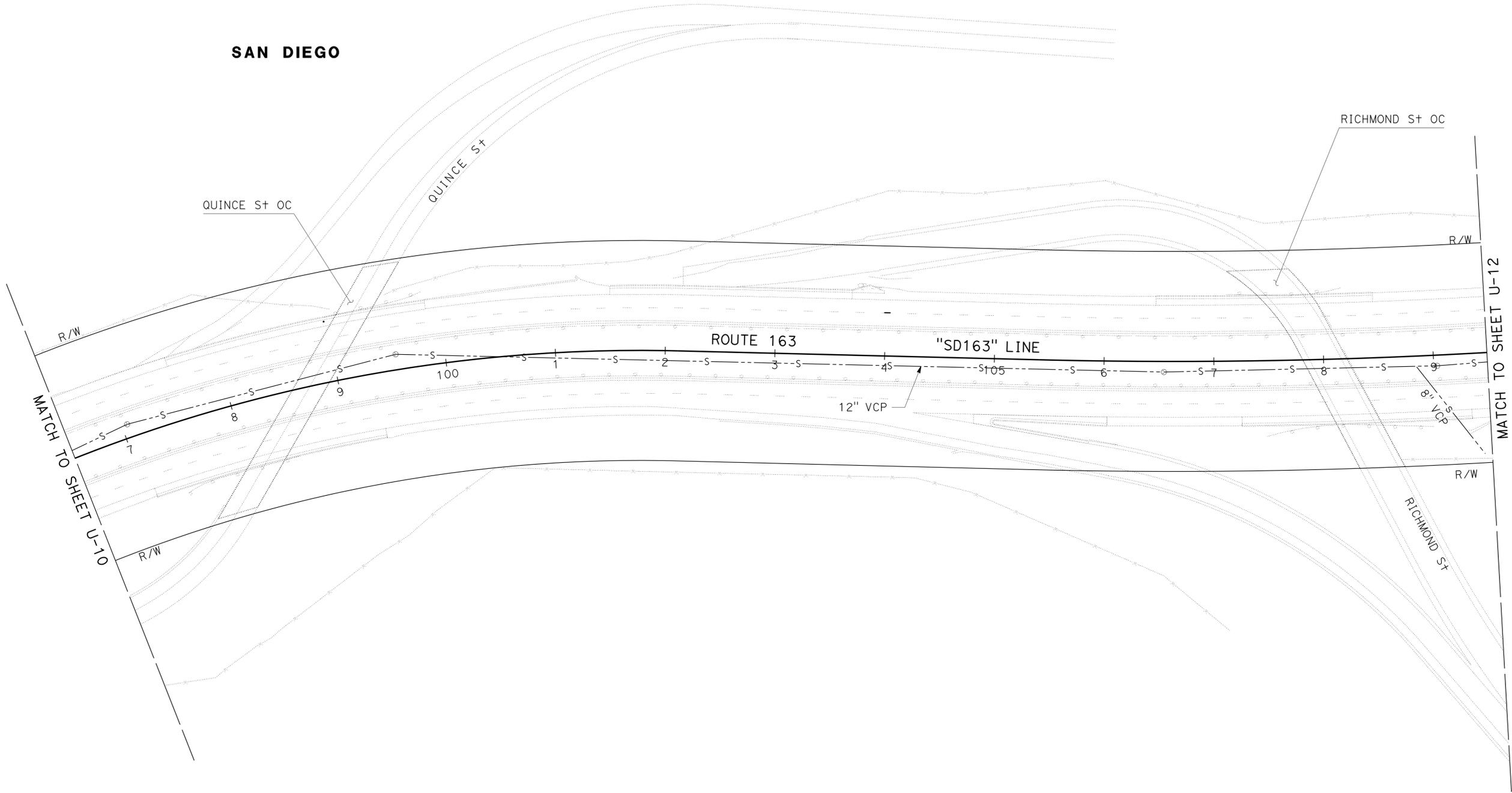
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	DATE REVISED



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR  
 ABU-BAKR AL-JAFRI

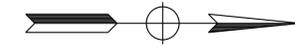
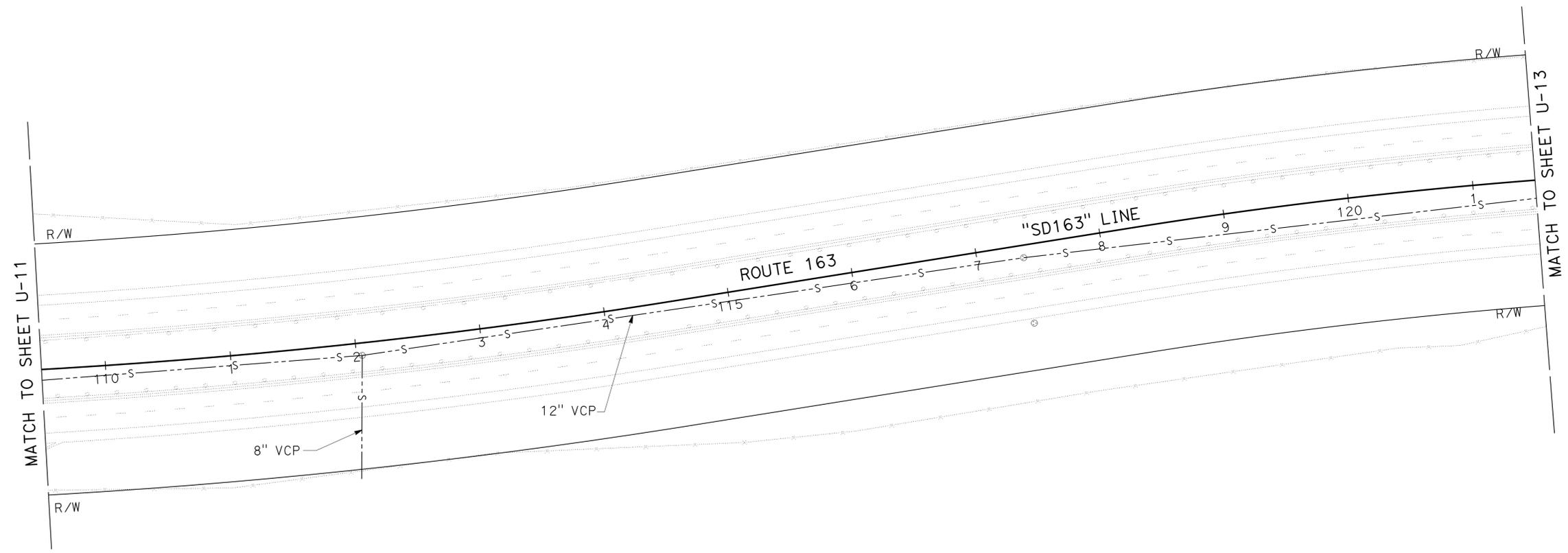
CALCULATED/DESIGNED BY  
 CHECKED BY

LANCHI HOANG  
 MICHAEL PEDERSEN

REVISED BY  
 DATE REVISED

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

**SAN DIEGO**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	28	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 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.

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN  
 U-12**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	29	119

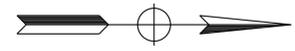
<i>Lanchi Hoang</i>	06-04-13
REGISTERED CIVIL ENGINEER	DATE
12-09-13	
PLANS APPROVAL DATE	

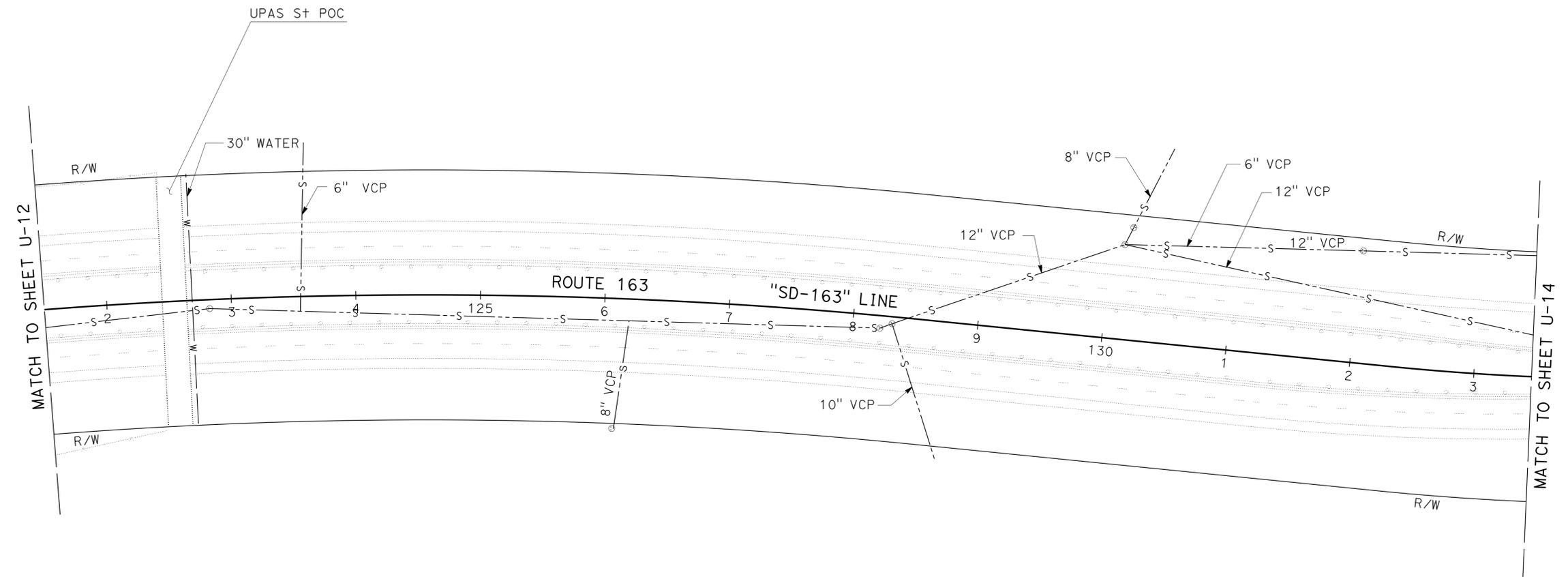
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



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



**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	LANCHI HOANG
			MICHAEL PEDERSEN
			DATE
			REVISED

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN  
U-13**

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37

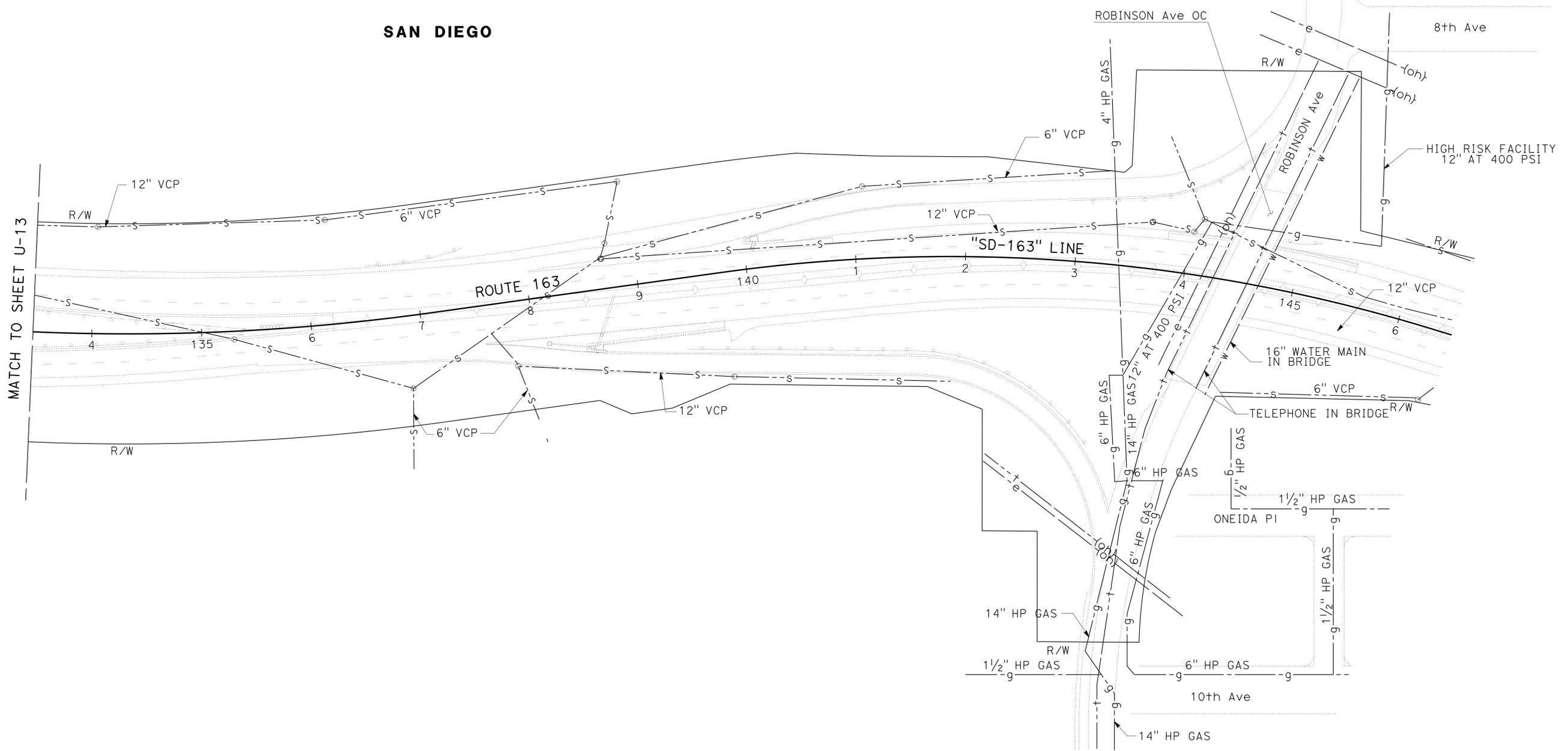
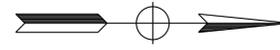
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	30	119

*Lanchi Hoang* 06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
**LANCHI HOANG**  
 No. C76518  
 Exp. 12-31-14  
 CIVIL  
 STATE OF CALIFORNIA

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	LANCHI HOANG	
	CHECKED BY	DESIGNED BY	DATE
	MICHAEL PEDERSEN		

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN  
 U-14  
 SCALE: 1" = 50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	31	119

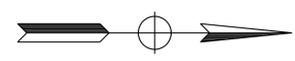
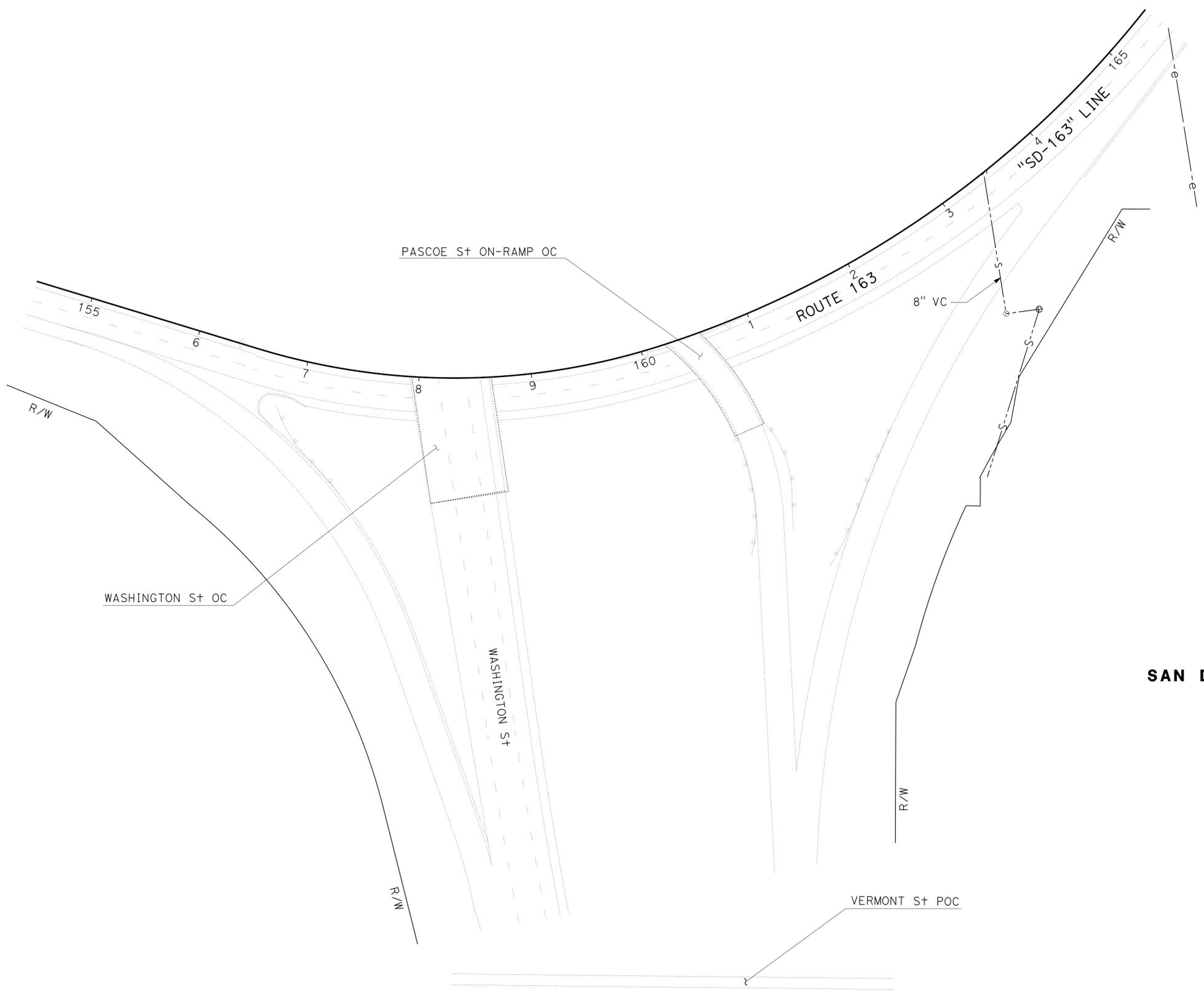
<i>Lanchi Hoang</i>	06-04-13
REGISTERED CIVIL ENGINEER	DATE
12-09-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
LANCHI HOANG
No. C76518
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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



**SAN DIEGO**

APPROVED FOR UTILITY INFORMATION ONLY

SCALE: 1" = 50'

**UTILITY PLAN  
U-15**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	LANCHI HOANG	REVISED BY
<b>Caltrans</b> PROJECT DEVELOPMENT	ABU-BAKR AL-JAFRI	CHECKED BY	MICHAEL PEDERSEN	DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	33	119

06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 SHAHIN T. ADIBI  
 No. 54839  
 Exp. 06-30-14  
 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. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MUTCD SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA) INDICATING STANDARD CALIFORNIA SIGN SPECIFICATIONS ARE USED.
3. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

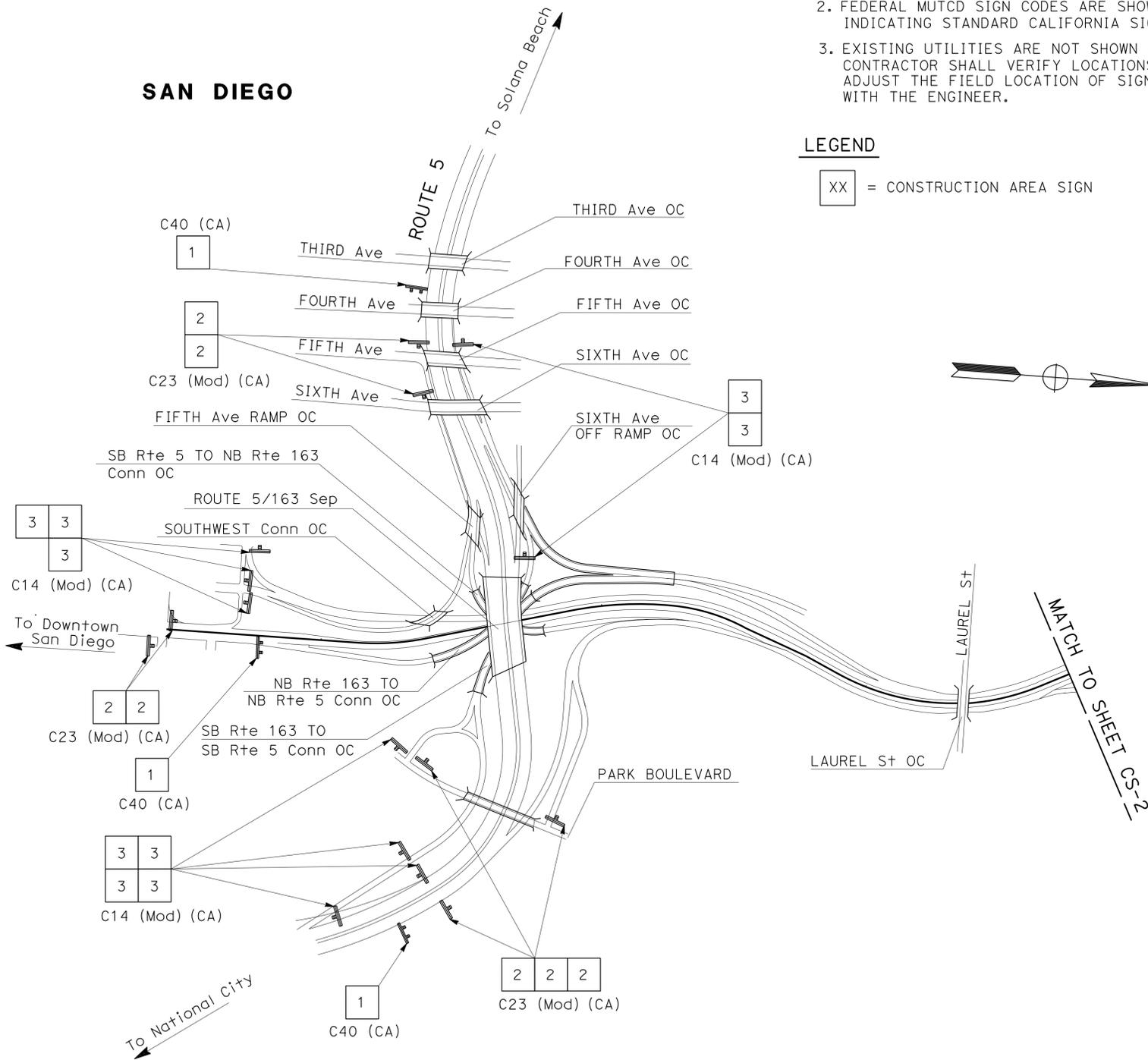
**LEGEND**

XX = CONSTRUCTION AREA SIGN

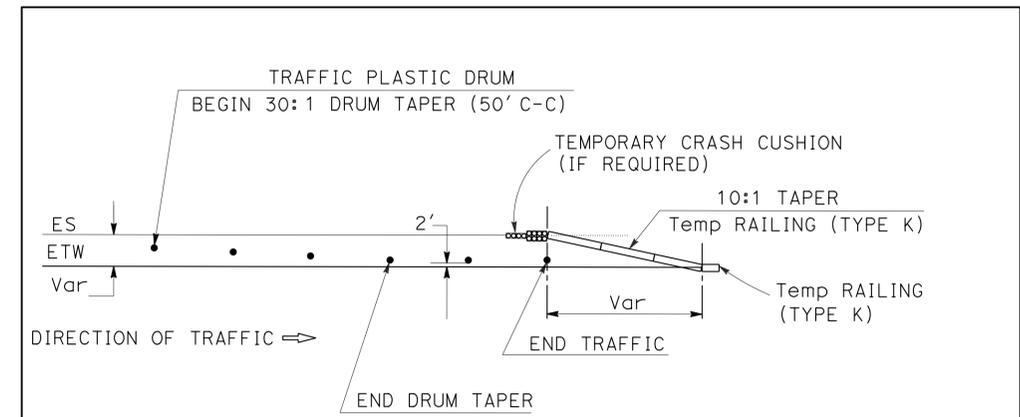
**CONSTRUCTION AREA SIGNS**

SIGN No.	TYPE	PANEL SIZE (INCH)	No. OF POST AND SIZE (INCH)	No. OF SIGNS
1	C40 (CA)	108 X 42	2-4 X 6 (s)	3
2	C23 (Mod) (CA)	48 X 48	1-4 X 6 (s)	12
3	C14 (Mod) (CA)	48 X 24	1-4 X 4 (s)	17
4	SC6-4 (CA)	48 X 60	PORTABLE	8

(s) DENOTES STATIONARY MOUNTED SIGN



**TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM**



**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-1**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN  
 FUNCTIONAL SUPERVISOR: SHAHIN T. ADIBI  
 CALCULATED/DESIGNED BY: RAFAEL AMBROSI  
 CHECKED BY: RYAN CHAO  
 REVISED BY: DATE  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

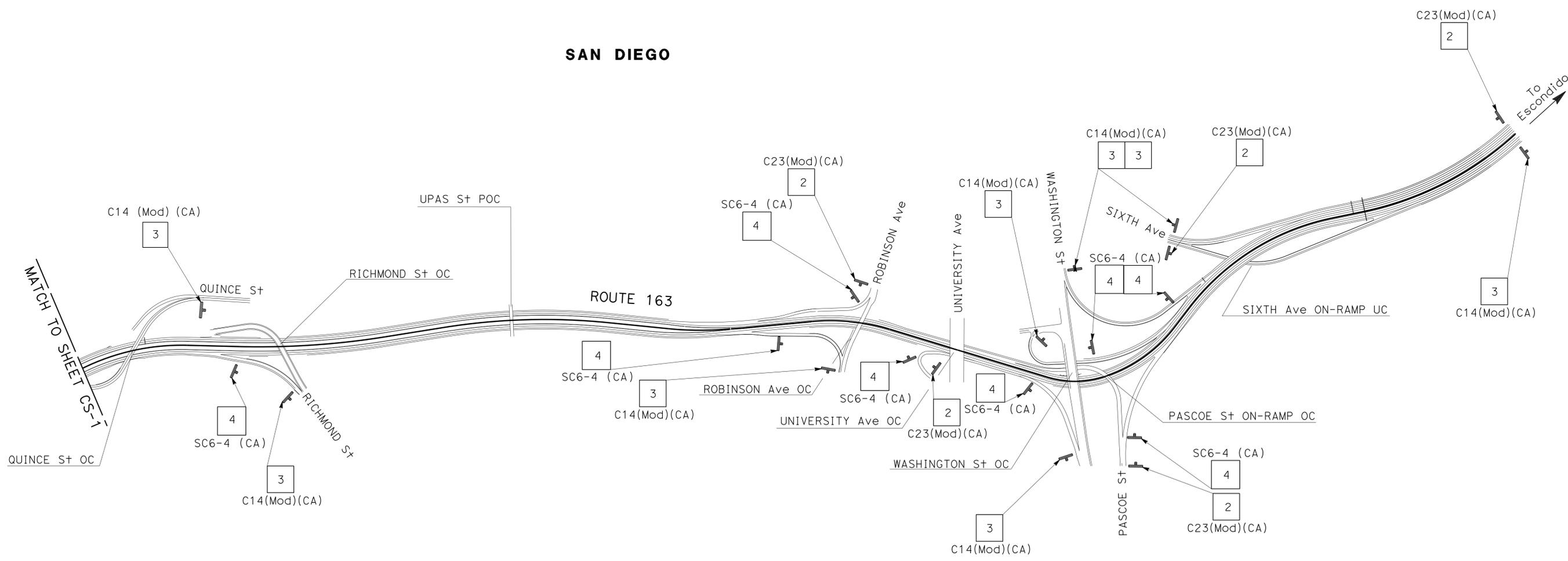
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	34	119

06-04-13  
 REGISTERED CIVIL ENGINEER DATE  
 12-09-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 SHAHIN T. ADIBI  
 No. 54839  
 Exp. 06-30-14  
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISED BY
<b>Caltrans</b> TRAFFIC DESIGN	SHAHIN T. ADIBI	CHECKED BY	DATE REVISED



**CONSTRUCTION AREA SIGNS**  
NO SCALE  
**CS-2**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN

REVISOR	DATE	REVISION
RAFAEL AMBROSI		
RYAN CHAO		
CALCULATED/DESIGNED BY	CHECKED BY	
SHAHIN T. ADIBI		
FUNCTIONAL SUPERVISOR		

**NOTES:**

1. EXACT LOCATION OF CONSTRUCTION AREA SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA), INDICATING CALIFORNIA SIGN SPECIFICATIONS ARE USED.
3. ROTATE ARROW ON SC9 (CA) PANEL TO REFLECT DIRECTION OF DETOUR.
4. SEE CONSTRUCTION AREA SIGN PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
5. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLAN SHEETS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF THE SIGN POSTS IN CONSULTATION WITH THE ENGINEER.

**LEGEND:**

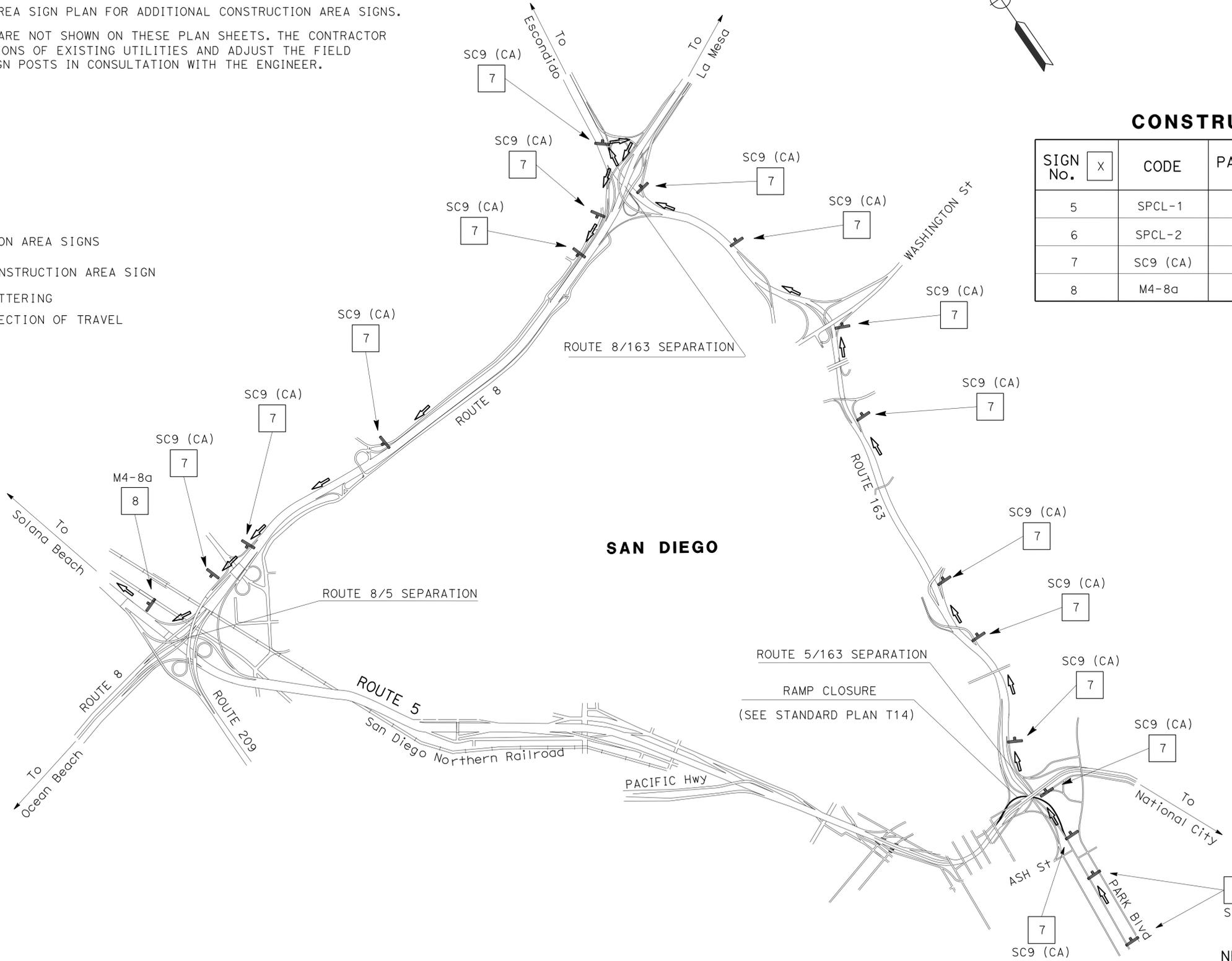
- X = CONSTRUCTION AREA SIGNS
- SPCL = SPECIAL CONSTRUCTION AREA SIGN
- Caps = CAPITAL LETTERING
- ↔ = DETOUR DIRECTION OF TRAVEL

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	35	119

REGISTERED CIVIL ENGINEER DATE 06-04-13  
 12-09-13  
 PLANS APPROVAL DATE

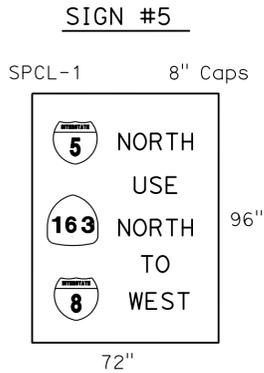
SHAHIN T. ADIBI  
 No. 54839  
 Exp. 06-30-14  
 CIVIL

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.



**CONSTRUCTION AREA SIGNS**

SIGN No.	CODE	PANEL SIZE (INCH)	No. OF POST AND SIZE (INCH)	No. OF SIGNS
5	SPCL-1	72 X 72	PORTABLE	2
6	SPCL-2	72 X 72	PORTABLE	2
7	SC9 (CA)	36 X 36	PORTABLE	25
8	M4-8a	24 X 18	PORTABLE	2



NB 163 CONNECTOR TO NB 5 DETOUR

**TRAFFIC HANDLING PLAN TH-1**

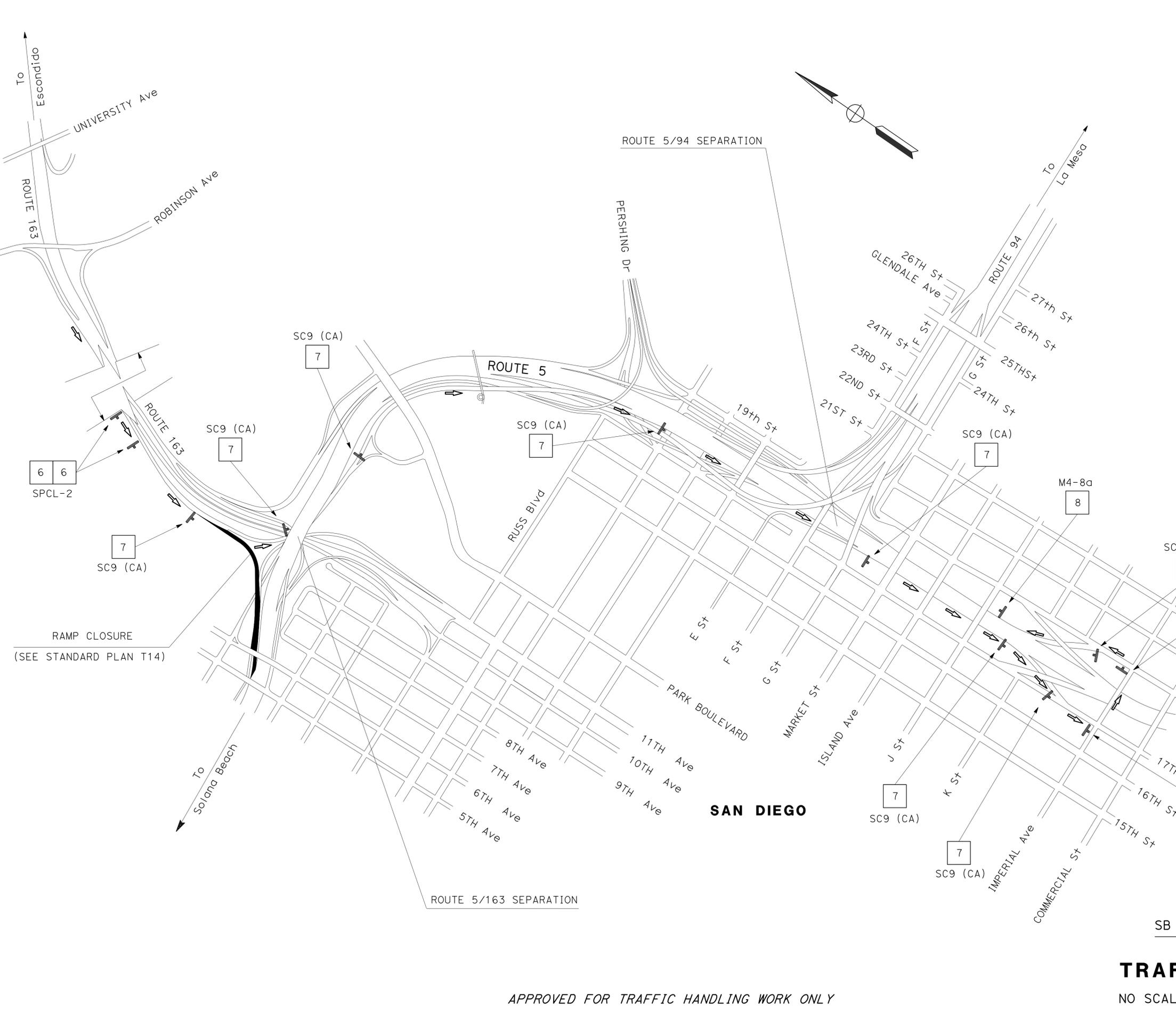
NO SCALE

APPROVED FOR TRAFFIC HANDLING WORK ONLY

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: SHAHIN T. ADIBI  
 CALCULATED/DESIGNED BY: RAFAEL AMBROSI  
 CHECKED BY: RYAN CHAO  
 REVISED BY: DATE REVISED

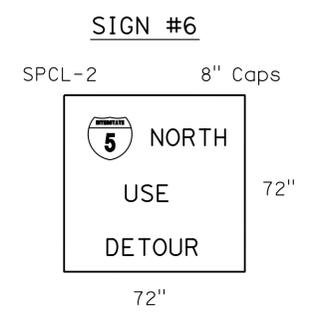


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	36	119

REGISTERED CIVIL ENGINEER: SHAHIN T. ADIBI  
 No. 54839  
 Exp. 06-30-14  
 CIVIL

DATE: 06-04-13  
 PLANS APPROVAL DATE: 12-09-13

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.



APPROVED FOR TRAFFIC HANDLING WORK ONLY

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

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:37

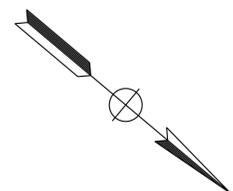
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	37	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

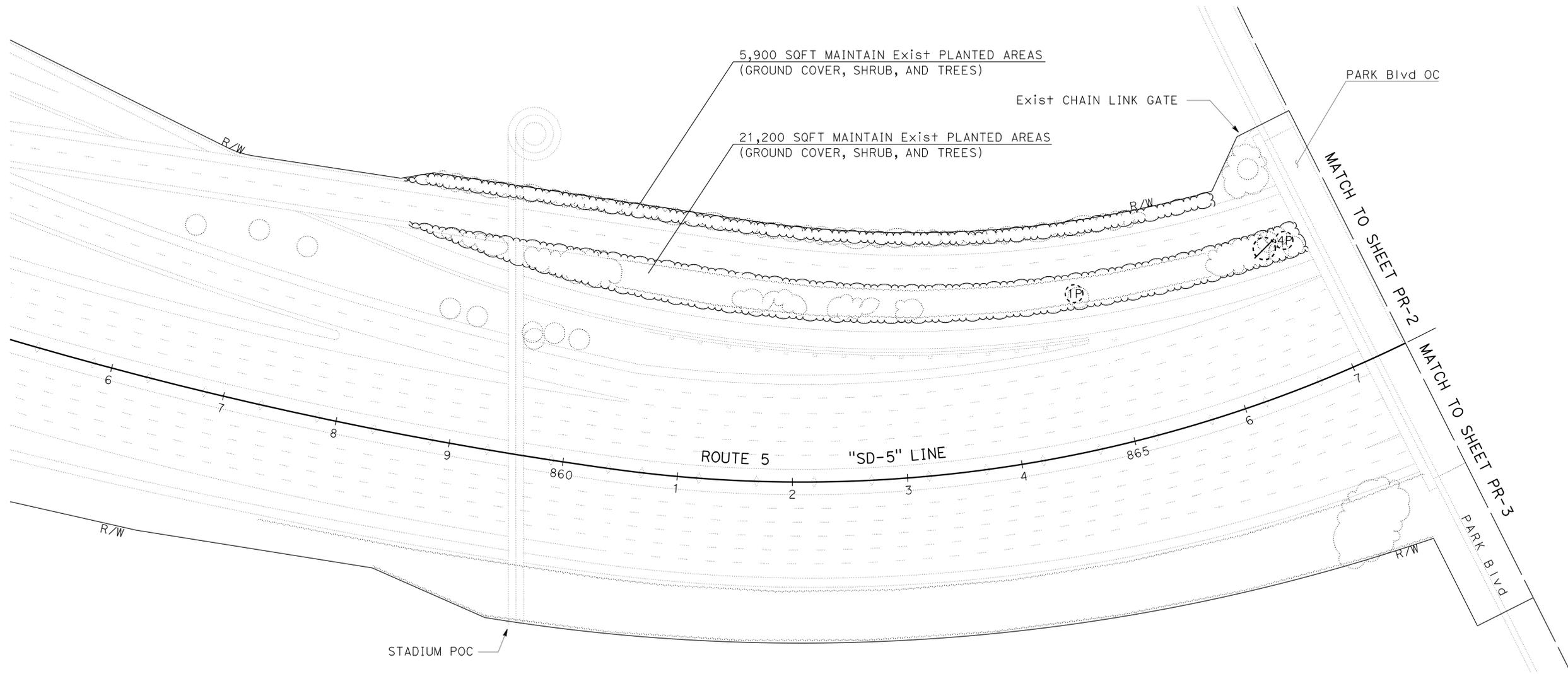
LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH NO. 3003  
 02-28-14  
 06-04-13  
 STATE OF CALIFORNIA

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.



**SAN DIEGO**



**LEGEND:**

-  PLANT REMOVAL
-  AC REMOVAL (2" DEPTH)
-  MAINTAIN Exist PLANTED AREAS
-  REMOVE TREE
-  PRUNE TREE
-  PRUNE TREE (PALM) (QUANTITY INDICATED)
-  Exist TREE TO REMAIN

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR-1**  
 SCALE: 1" = 50'

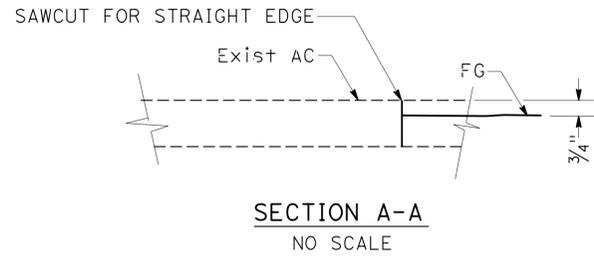
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 KENNY MAH  
 RUDY MEDINA  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	38	119

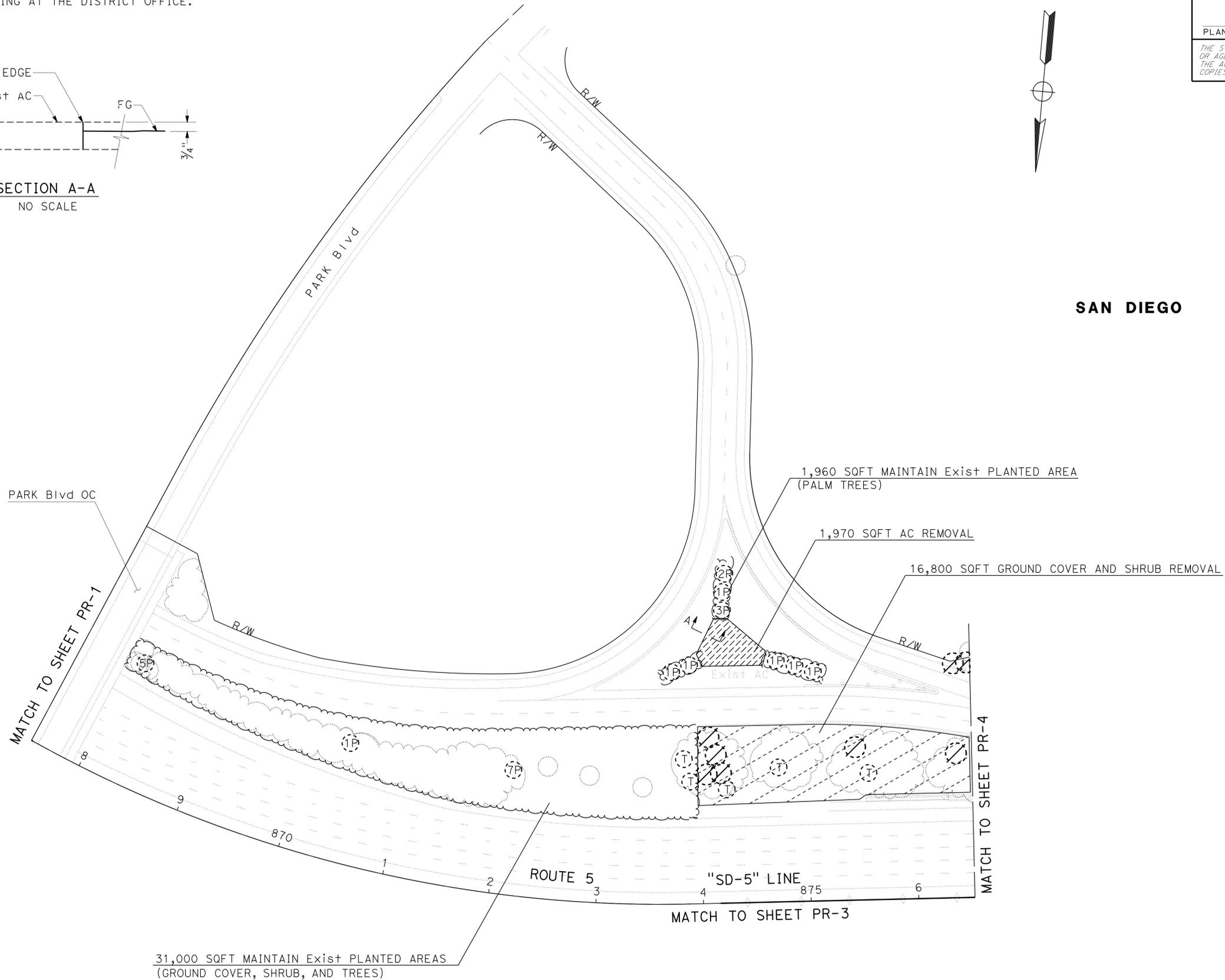
KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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

**NOTE:**  
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SAN DIEGO

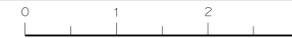


APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN  
PR-2**

SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED-DESIGNED BY	CHECKED BY
KENNY MAH	RUDY MEDINA
REVISOR BY	DATE REVISED

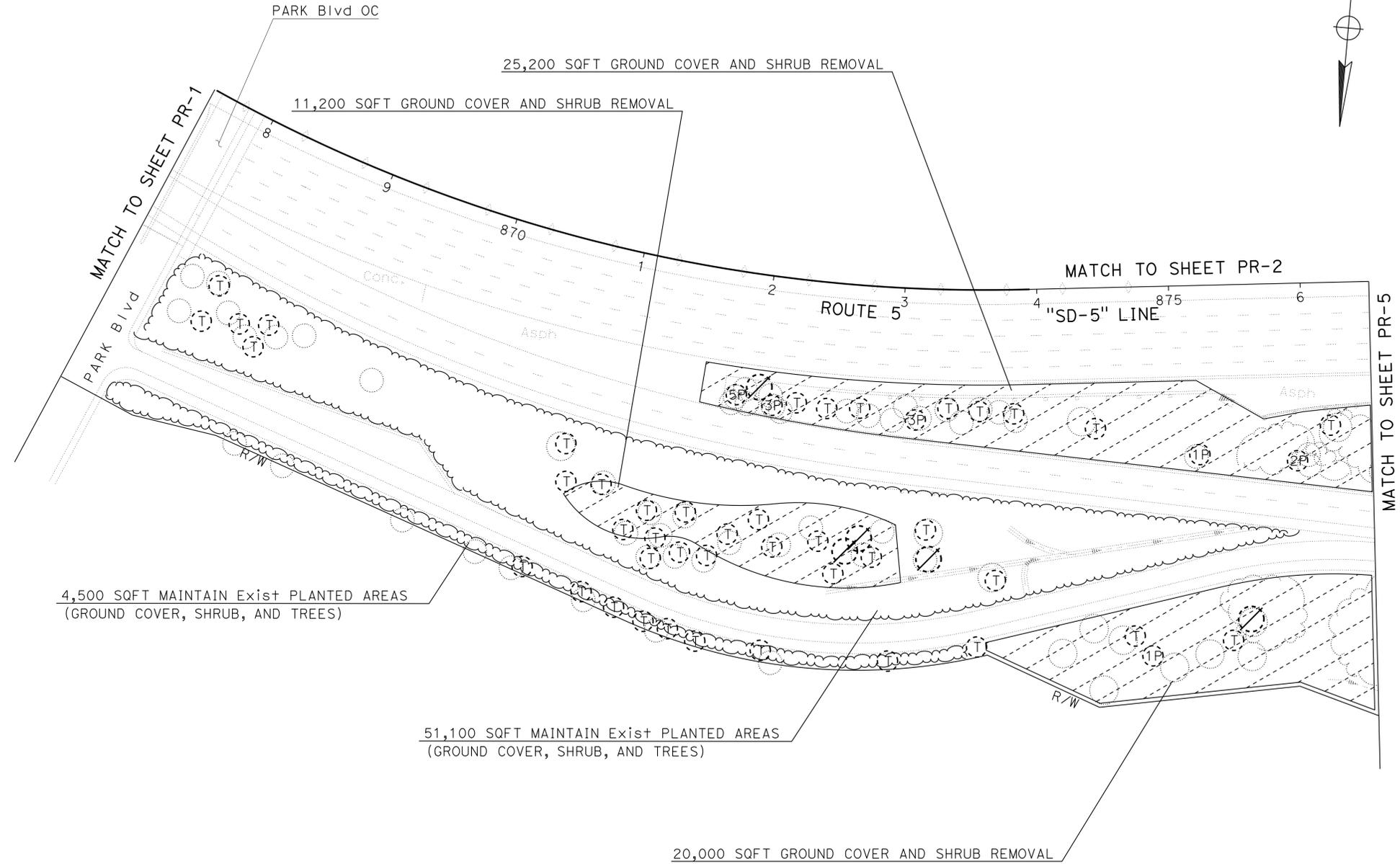


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	39	119

*Kenny Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.

**SAN DIEGO**



4,500 SQFT MAINTAIN Exist PLANTED AREAS  
 (GROUND COVER, SHRUB, AND TREES)

51,100 SQFT MAINTAIN Exist PLANTED AREAS  
 (GROUND COVER, SHRUB, AND TREES)

20,000 SQFT GROUND COVER AND SHRUB REMOVAL

11,200 SQFT GROUND COVER AND SHRUB REMOVAL

25,200 SQFT GROUND COVER AND SHRUB REMOVAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE
			REVISED BY
			DATE
			REVISOR
			DATE
			REVISED BY
			DATE
			REVISOR
			DATE

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN  
 PR-3**

SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37



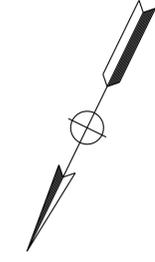
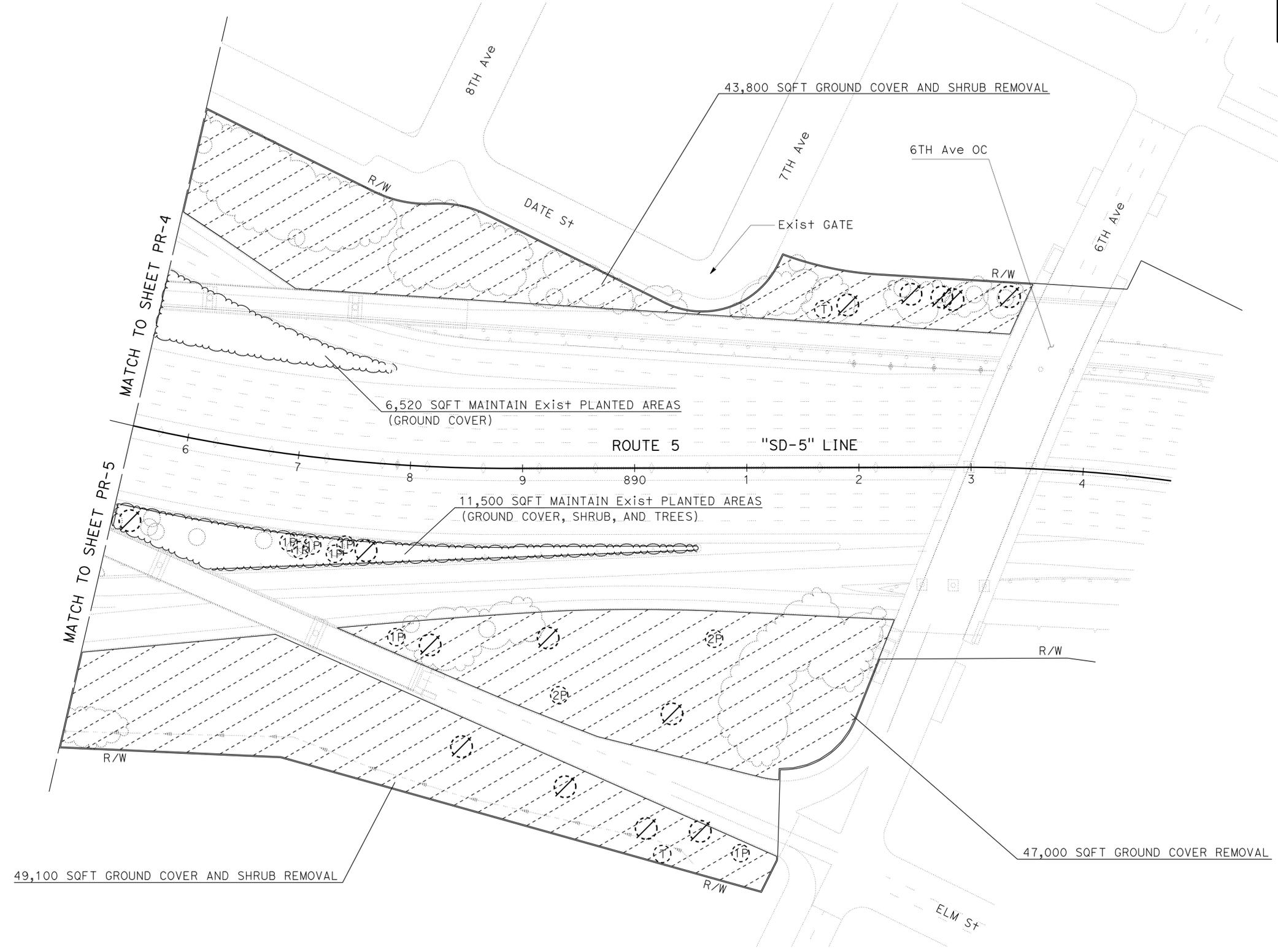


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	42	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	KENNY MAH	
		RUDY MEDINA	
		CALCULATED/DESIGNED BY	DATE
		CHECKED BY	REVISED

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR-6**  
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	43	119

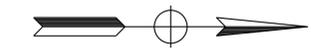
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT

12-09-13  
 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.

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE
			REVISED BY
			DATE
			REVISOR
			DATE
			REVISED BY
			DATE
			REVISOR
			DATE



APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR-7**

SCALE: 1" = 50'

LAST REVISION: 12-06-13 DATE PLOTTED => 09-DEC-2013 TIME PLOTTED => 14:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	44	119

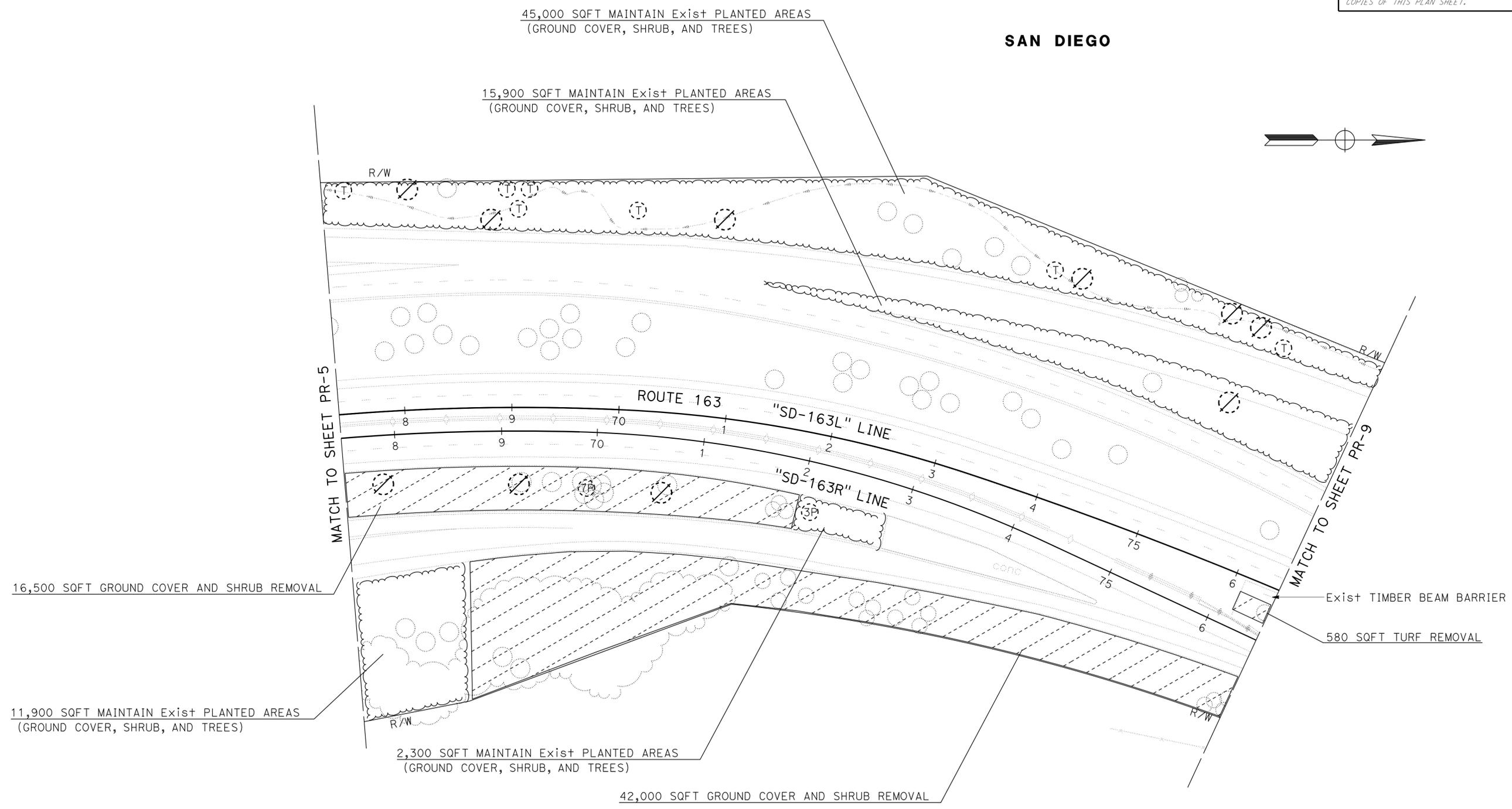
KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	KENNY MAH	12-09-13
		RUDY MEDINA	

**SAN DIEGO**



APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
PR-8  
SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:37

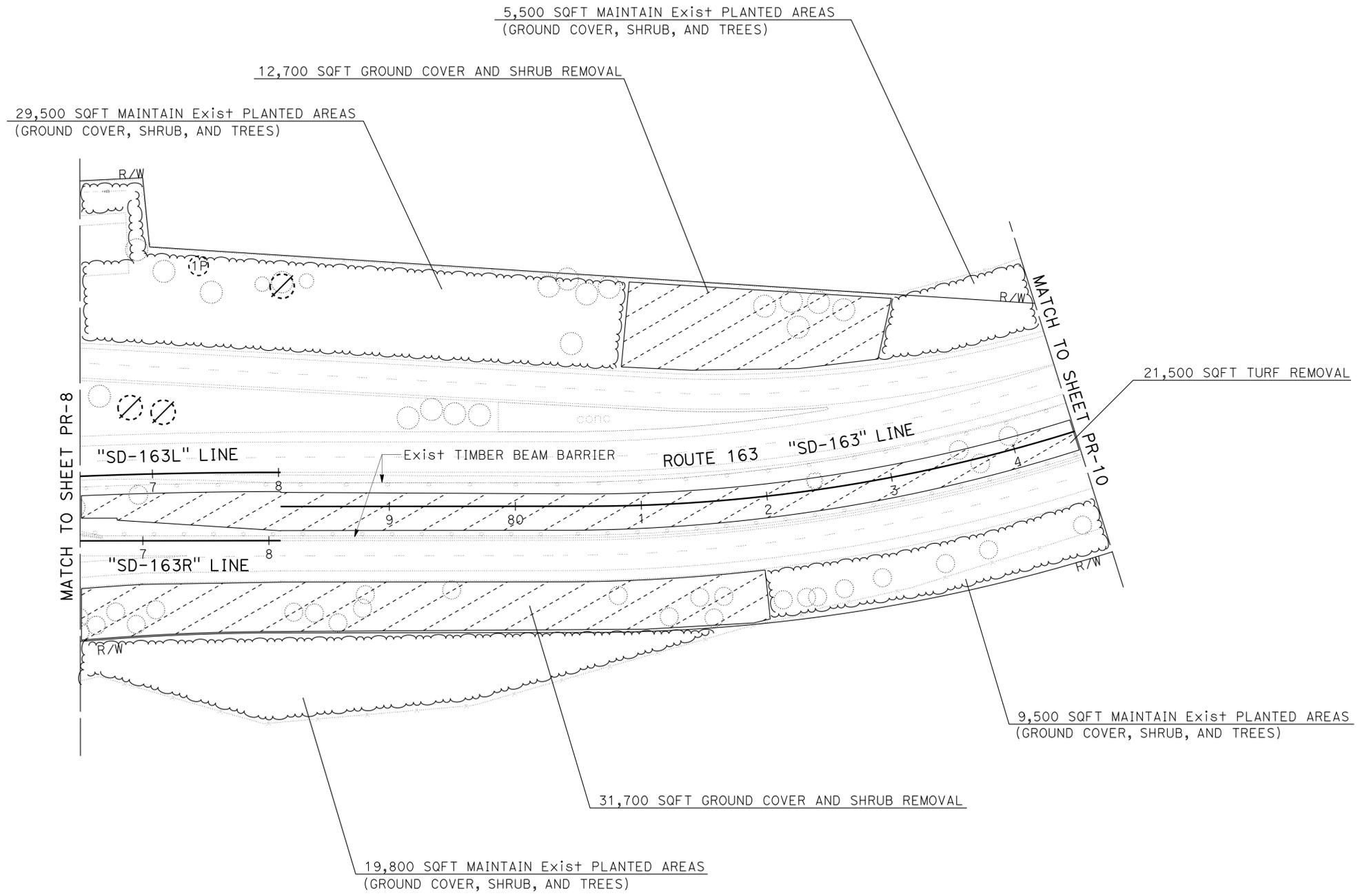
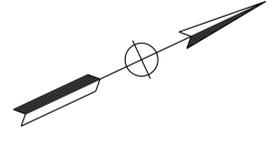
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	45	119

*Kenny Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED-DESIGNED BY	CHECKED BY
KENNY MAH	RUDY MEDINA
REVISED BY	DATE REVISED

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR-9**

SCALE: 1" = 50'

LAST REVISION    DATE PLOTTED => 09-DEC-2013    TIME PLOTTED => 14:37  
 12-06-13

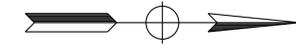


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	47	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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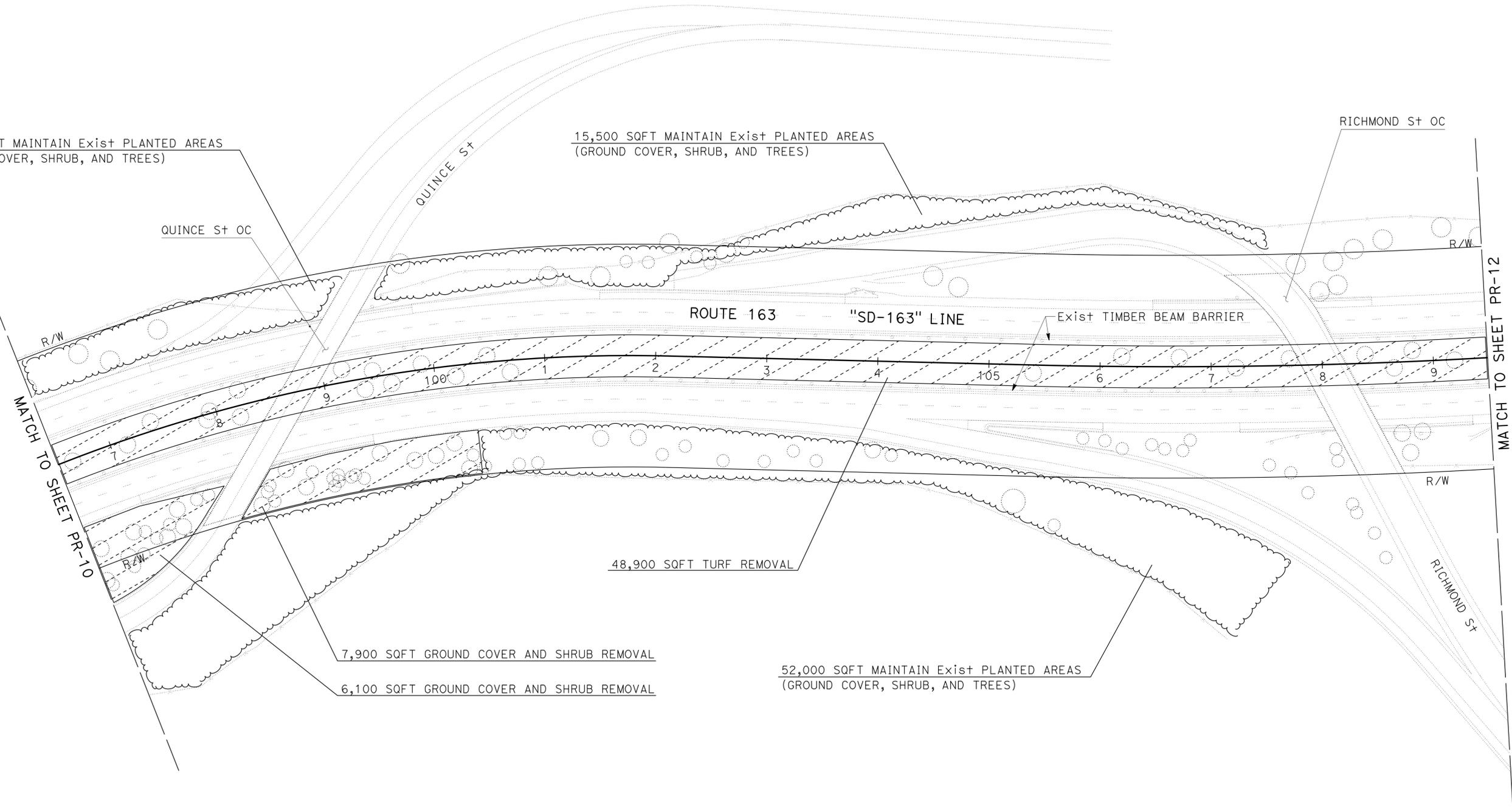
- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.



**SAN DIEGO**

8,800 SQFT MAINTAIN Exist PLANTED AREAS  
(GROUND COVER, SHRUB, AND TREES)

15,500 SQFT MAINTAIN Exist PLANTED AREAS  
(GROUND COVER, SHRUB, AND TREES)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED-DESIGNED BY	CHECKED BY
KENNY MAH	RUDY MEDINA
REVISED BY	DATE REVISED

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR - 11**  
 SCALE: 1" = 50'

LAST REVISION: 12-06-13    DATE PLOTTED => 09-DEC-2013    TIME PLOTTED => 14:37



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	49	119

<i>Kenneth L. Mah</i>	
LICENSED LANDSCAPE ARCHITECT	
12-09-13	
PLANS APPROVAL DATE	

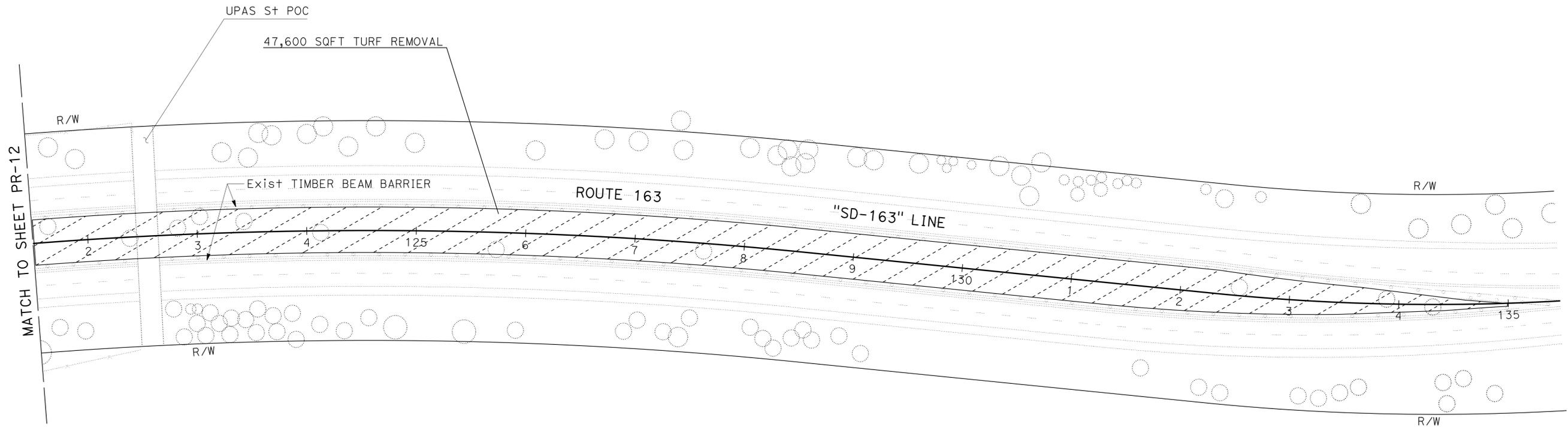
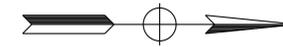
<i>Kenneth L. Mah</i>	
LICENSED LANDSCAPE ARCHITECT	
02-28-14	
06-04-13	

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. TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	KENNY MAH	12-09-13
	RUDY MEDINA	
	CHECKED BY	
	DESIGNED BY	
	SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR-13**  
 SCALE: 1" = 50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	50	119

*Kenny Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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	SENIOR LANDSCAPE ARCHITECT	CALCULATED- DESIGNED BY	REVISOR
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE
			REVISED BY
			DATE
			REVISOR
			DATE
			REVISED BY
			DATE
			REVISOR
			DATE



**SAN DIEGO**

APPROVED FOR PLANT REMOVAL WORK ONLY

**PLANT REMOVAL PLAN**  
**PR-14**  
 SCALE: 1" = 50'

### SPRINKLER SCHEDULE

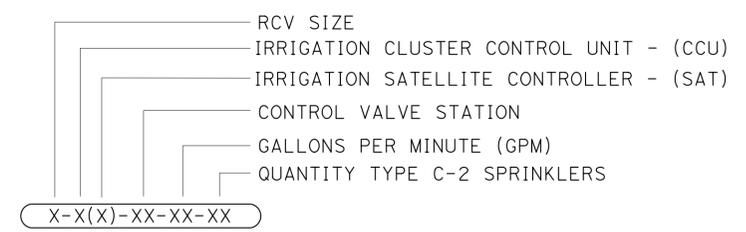
SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS/MINUS 5% ②				MATERIAL	NOZZLE SIZE (INCH)	INLET CONNECTION (NPT) (DN INCH)	POSITIVE-LOCKING ADJ ARC STOP	BACKSLASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER				REMARKS				
						DISCHARGE												MATERIAL								
						GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)	RADIUS (ft)	WIDTH X LENGTH (ft)									TYPE	PLASTIC	GALVANIZED	SIZE (IPS) (INCH)		HEIGHT (INCH)	FLOW SHUTOFF DEVICE		
⑤	A-5	GEAR DRIVEN	F	50	-	3.5	-	40	-	PL	-	3/4	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③
⑥	A-5	GEAR DRIVEN	P	50	-	3.5	-	40	-	PL	-	3/4	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③⑦
⑦	A-6	GEAR DRIVEN	P	50	-	3.5	-	40	-	PL	-	3/4	-	X	-	-	-	-	-	-	-	-	1	-	1	③⑦ 12" POP-UP
⑧	A-7	GEAR DRIVEN	F	50	-	7.5	-	48	-	PL	-	3/4	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③
⑨	A-7	GEAR DRIVEN	P	50	-	7.5	-	48	-	PL	-	3/4	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③⑦
⑩	A-8	GEAR DRIVEN	P	50	-	7.5	-	48	-	PL	-	3/4	-	X	-	-	-	-	-	-	-	-	1	-	1	③⑦ 12" POP-UP
⑪	A-11	GEAR DRIVEN	F	50	-	1.8	-	25	-	PL	-	3/4	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③
⑫	A-11	GEAR DRIVEN	P	50	-	1.8	-	25	-	PL	-	3/4	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③⑦
⑬	A-12	GEAR DRIVEN	P	50	-	1.8	-	25	-	PL	-	3/4	-	X	-	-	-	-	-	-	-	-	1	-	1	③⑦ 12" POP-UP
●	C-2 Mod	MODIFIED FLOOD BUBBLER	-	30	X	1.0	-	-	-	PL	-	1/2	-	-	-	-	II	X	-	1/2	6	-	1	-	-	④⑥⑨

**NOTES:**

- ALL LATERAL PIPE NOT LABELED SHALL BE 1 INCH, OR AS SHOWN ON PIPE SIZING CHARTS.
- ALL SPRINKLER HEADS, VALVES AND MAINLINE SHOWN NEAR MVP LOCATIONS ARE TO BE INSTALLED OUTSIDE OF THE PAVED MVP AREA. VALVES TO BE INSTALLED AT EXITING END OF THE MVP.
- PULL ONE ADDITIONAL CNC WIRE FROM EACH DESIGNATED CONTROLLER TO THE LAST VALVE BOX AT EACH VALVE MANIFOLD. (FOR FUTURE USE)

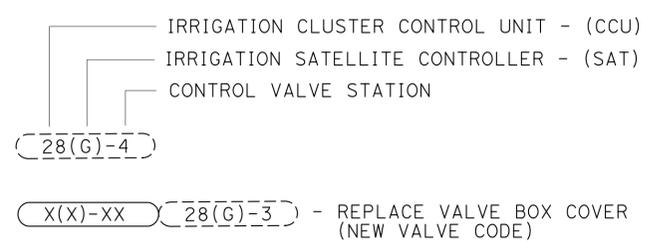
**LEGEND**

- Ⓜ REMOTE CONTROL VALVE (MASTER)
- Ⓣ FLOW SENSOR
- Ⓡ REPLACE VALVE BOX COVER



**VALVE CODE**

**EXISTING VALVE CODE:**



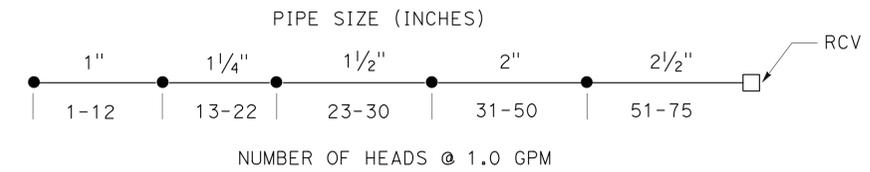
X IN BOX DENOTES REQUIREMENT

**APPLICABLE WHEN CIRCLED BELOW:**

- 1 - SEE SPECIAL PROVISIONS.
- ② - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
- ③ - SHALL HAVE AN INTERNAL OR EXTERNAL CHECK VALVE.
- ④ - NON-ADJUSTABLE DISCHARGE RATE.
- 5 - REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
- ⑥ - PROVIDE FOUR BUBBLERS PER BOX TREE.
- ⑦ - ADJUSTABLE ARC.
- 8 - MATCHED PRECIPITATION RATE NOZZLES.
- ⑨ - REFER TO PIPE SIZING CHARTS.

**ABBREVIATIONS**

- Adj — ADJUSTABLE
- B/B — BRASS/BRONZE
- B/B/PL — BRASS/BRONZE/PLASTIC
- B/PL — BRASS/PLASTIC
- CST — CENTER STRIP
- DN — DIAMETER NOMINAL
- EST — END STRIP
- ft — FEET
- psi — POUNDS PER SQUARE INCH



**PIPE SIZING CHART**  
C-2 (Mod) SPRINKLERS  
(FLOOD BUBBLER)

# IRRIGATION SPRINKLER SCHEDULE

## ISS-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RUDY MEDINA  
 KENNY MAH  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	52	119

*Herminio L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

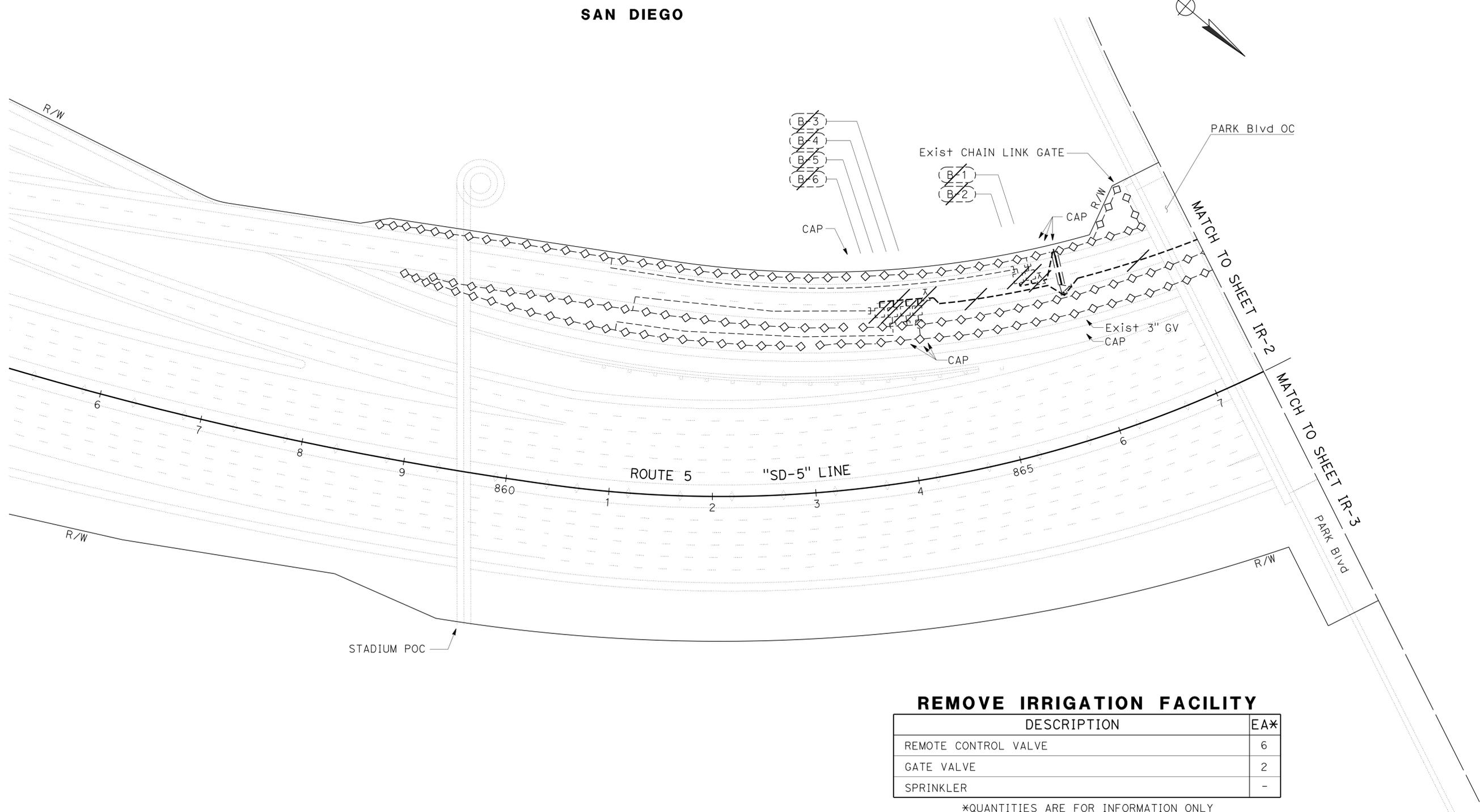
THE STATE OF CALIFORNIA OR ITS OFFICERS  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF SCANNED  
 COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT  
 HERMINIO L. MAH NO. 3008  
 02-28-14  
 06-04-13

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - EXISTING BPA AND WM LOCATED ON NORTHBOUND ROUTE 163 AT STATION "SD-163R" 44+00.

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

SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 RAFAEL AMBROSI: RODNEY MAYFIELD  
 REVISED BY: DATE REVISED:



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
REMOTE CONTROL VALVE	6
GATE VALVE	2
SPRINKLER	-

\*QUANTITIES ARE FOR INFORMATION ONLY

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN  
IR-1**

SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	53	119

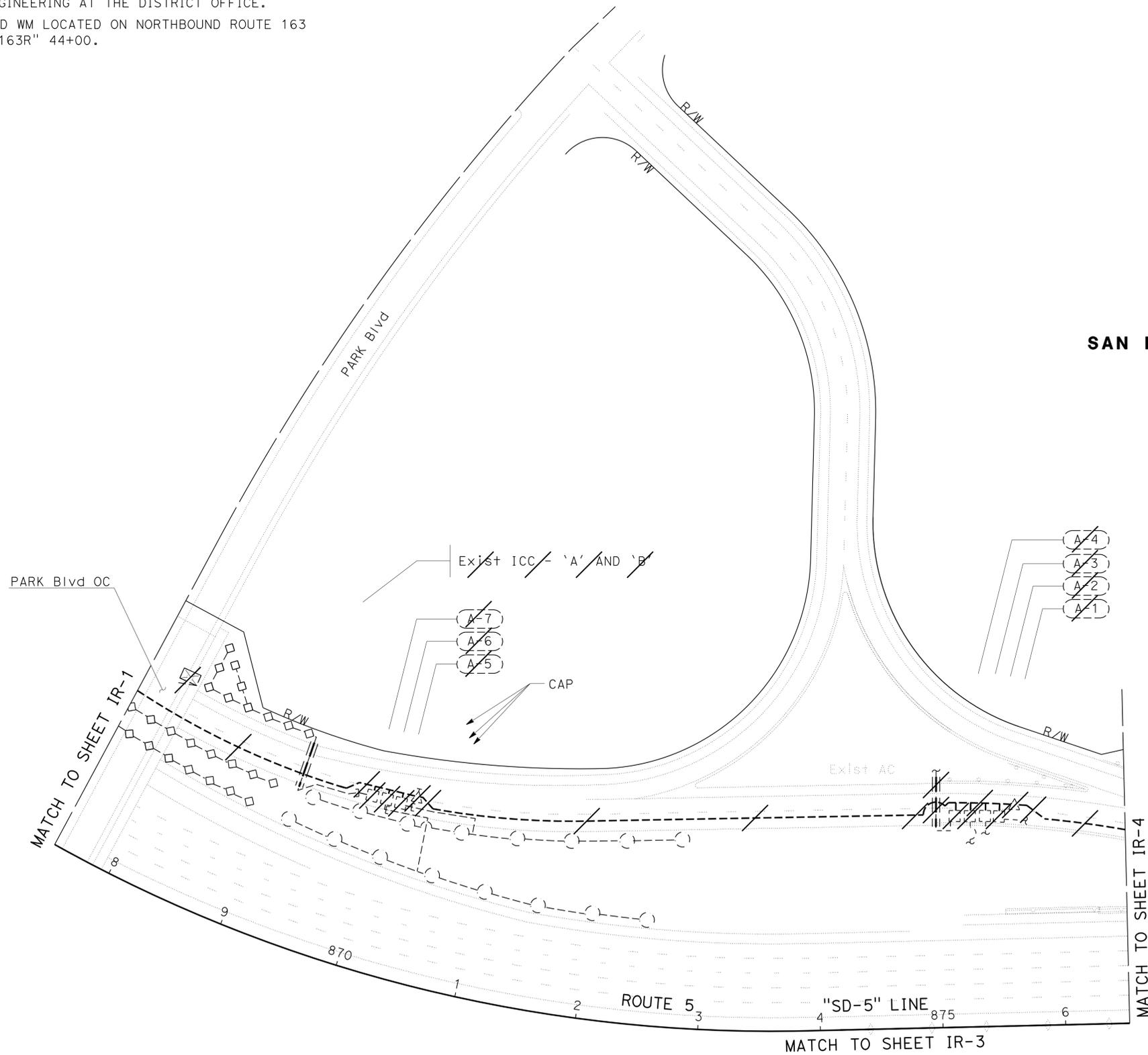
*Renath Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING BPA AND WM LOCATED ON NORTHBOUND ROUTE 163 AT STATION "SD-163R" 44+00.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	RAFAEL AMBROSI	REVISOR BY
<b>Caltrans</b>		STEPHEN ALVAREZ	CHECKED BY	RODNEY MAYFIELD	DATE REVISED



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
IRRIGATION CROSSOVER	1
IRRIGATION CONTROLLER	2
IRRIGATION CABINET	1
REMOTE CONTROL VALVE	7
GATE VALVE	2
SPRINKLER	20

\*QUANTITIES ARE FOR INFORMATION ONLY

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN  
IR-2**

SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	54	119

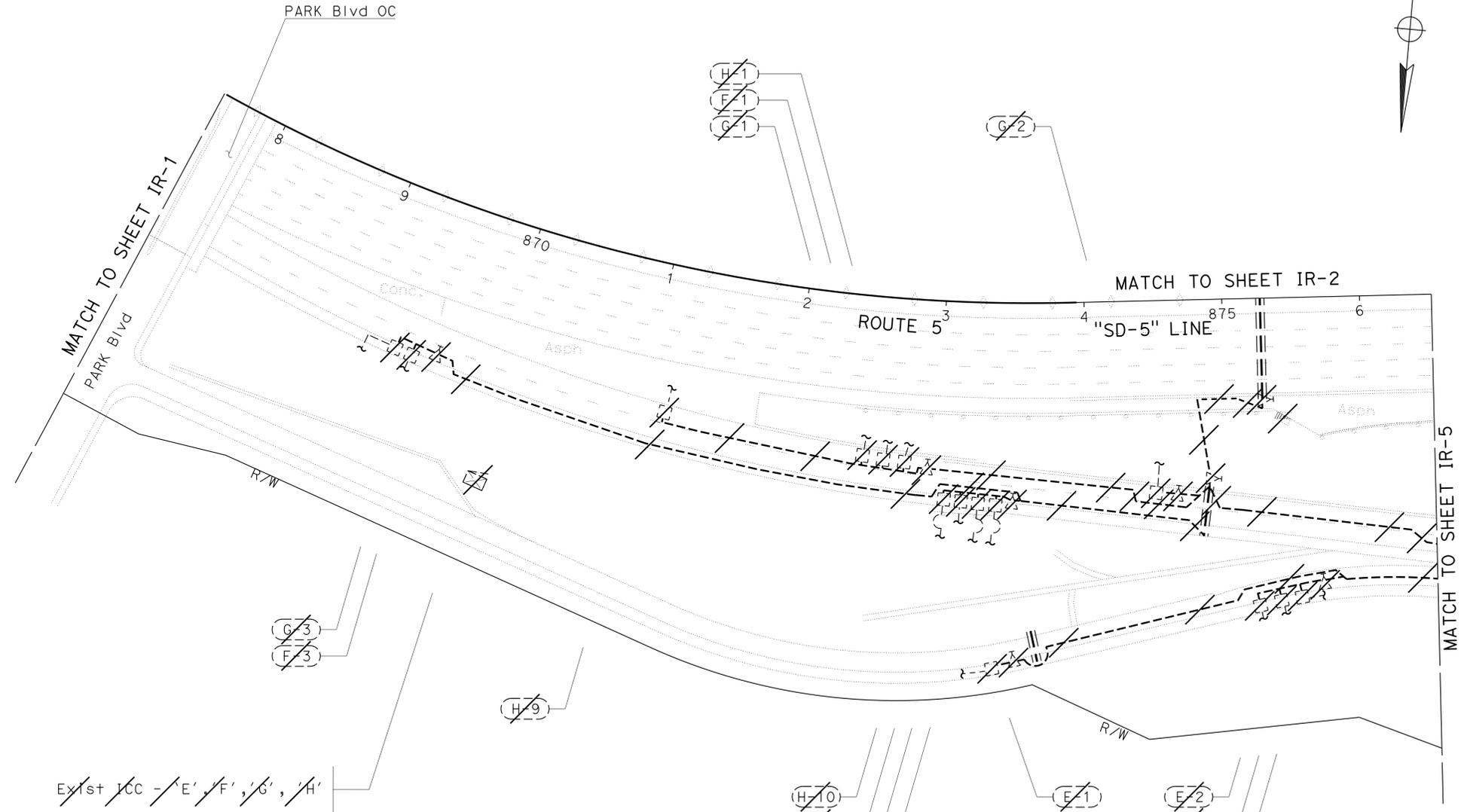
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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.

**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING BPA AND WM LOCATED ON NORTHBOUND ROUTE 163 AT STATION "SD-163R" 44+00.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: [Blank] CHECKED BY: [Blank]  
 RAFAEL AMBROSI  
 RODNEY MAYFIELD  
 REVISED BY: [Blank] DATE: [Blank]



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
IRRIGATION CONTROLLER	2
IRRIGATION CABINET	1
REMOTE CONTROL VALVE	15
GATE VALVE	8
SPRINKLER	192

\*QUANTITIES ARE FOR INFORMATION ONLY

**SAN DIEGO**

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN  
IR-3**

SCALE: 1" = 50'



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	55	119

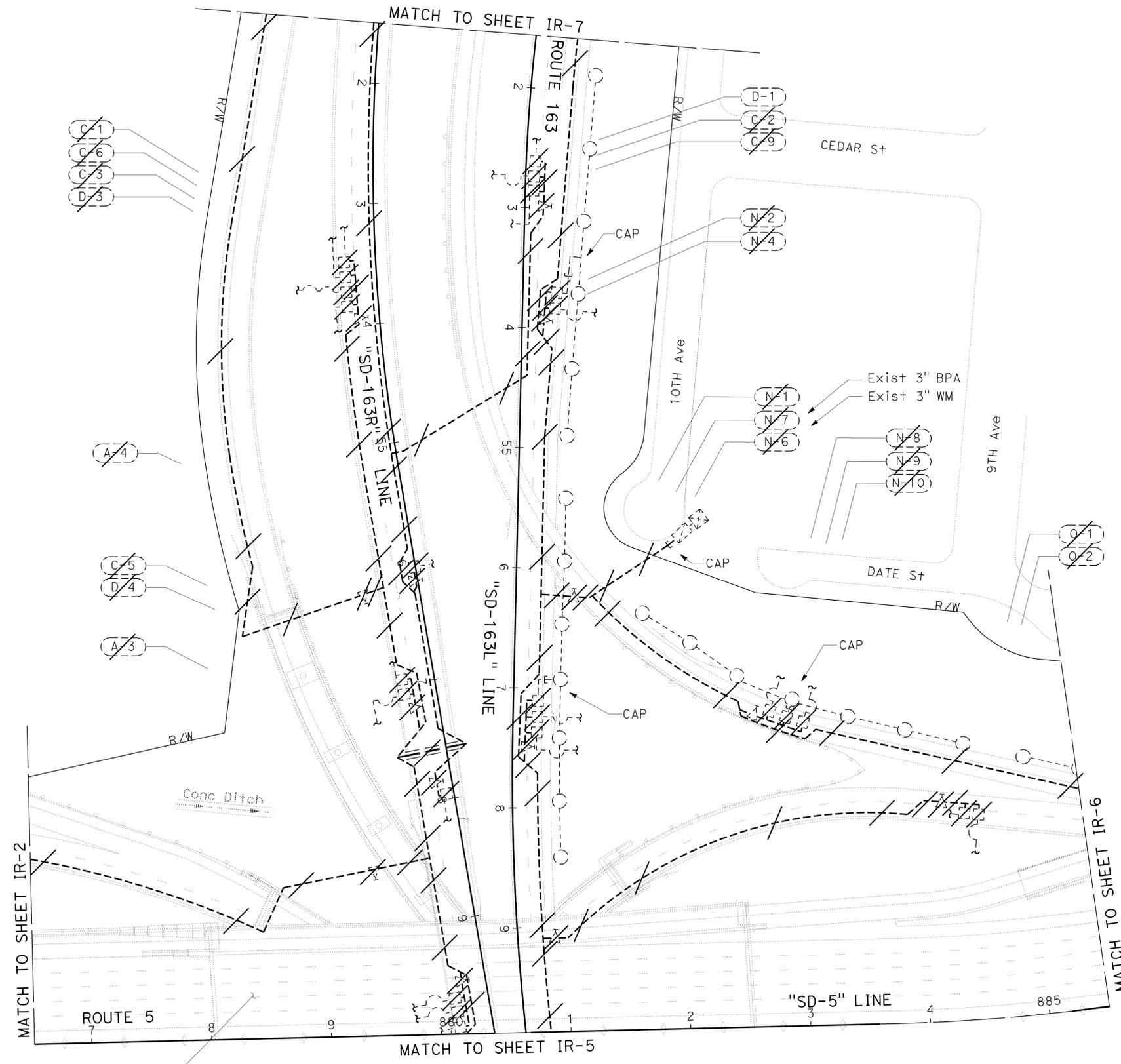
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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  
 KENNETH L. MAH NO. 3008  
 02-28-14  
 06-04-13

**NOTE:**  
 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	RAFAEL AMBROSI	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	RODNEY MAYFIELD	DATE REVISED



**SAN DIEGO**

**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EAX
IRRIGATION CROSSOVER	1
REMOTE CONTROL VALVE	24
GATE VALVE	14
SPRINKLER	209

\*QUANTITIES ARE FOR INFORMATION ONLY

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN  
 IR-4**

SCALE: 1" = 50'

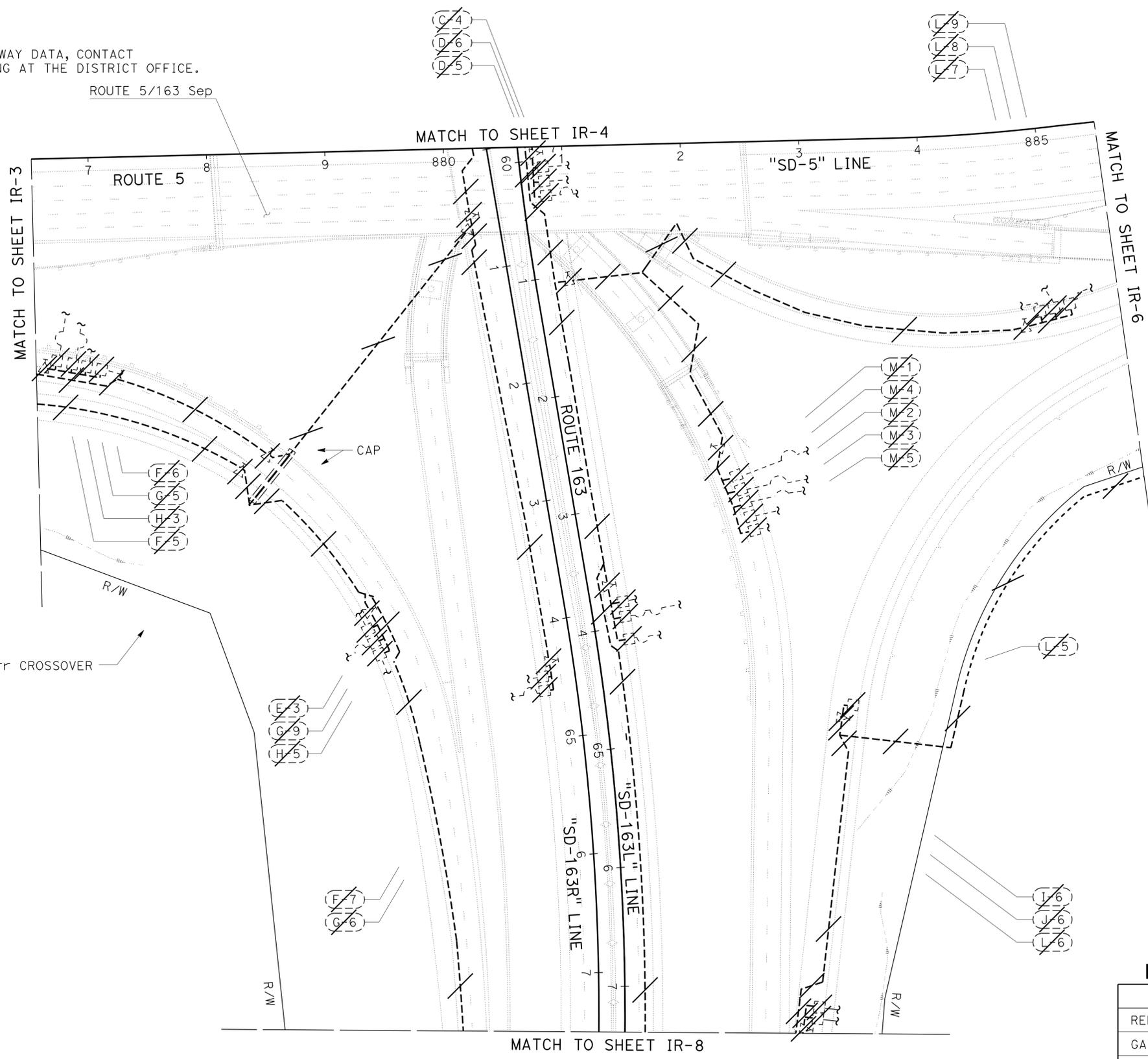
LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	56	119

*Renata Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS  
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 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.



Exist 8" WSP Irr CROSSOVER  
 4" WATERLINE

**SAN DIEGO**

**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EAX
REMOTE CONTROL VALVE	26
GATE VALVE	13
SPRINKLER	265

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN**  
**IR-5**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE REVISED

USERNAME => s127400  
 DGN FILE => 1100020306sn005.dgn



UNIT 2816

PROJECT NUMBER & PHASE

11000203061

BORDER LAST REVISED 7/2/2010

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	57	119

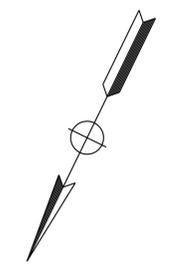
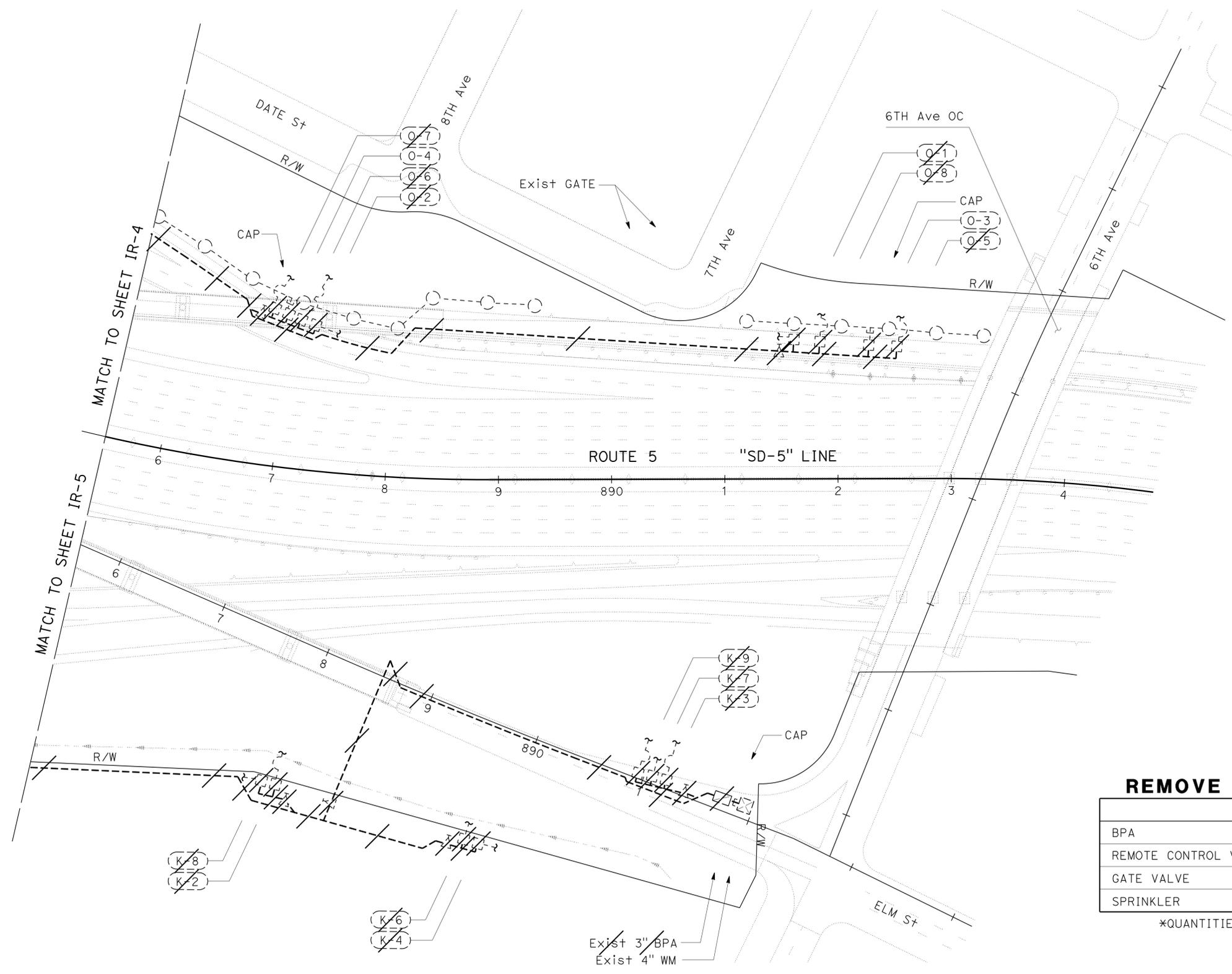
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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  
 KENNETH L. MAH NO. 3003  
 02-28-14  
 06-04-13  
 STATE OF CALIFORNIA

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

**SAN DIEGO**



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
BPA	1
REMOTE CONTROL VALVE	15
GATE VALVE	6
SPRINKLER	140

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN  
 IR-6**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans** LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ

CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]

RAFAEL AMBROSI  
 RODNEY MAYFIELD

REVISED BY: [blank] DATE REVISED: [blank]

x  
x  
x  
x  
x  
x  
x  
x

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	58	119

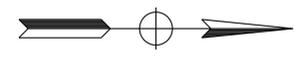
Kenneth L. Mah  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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.

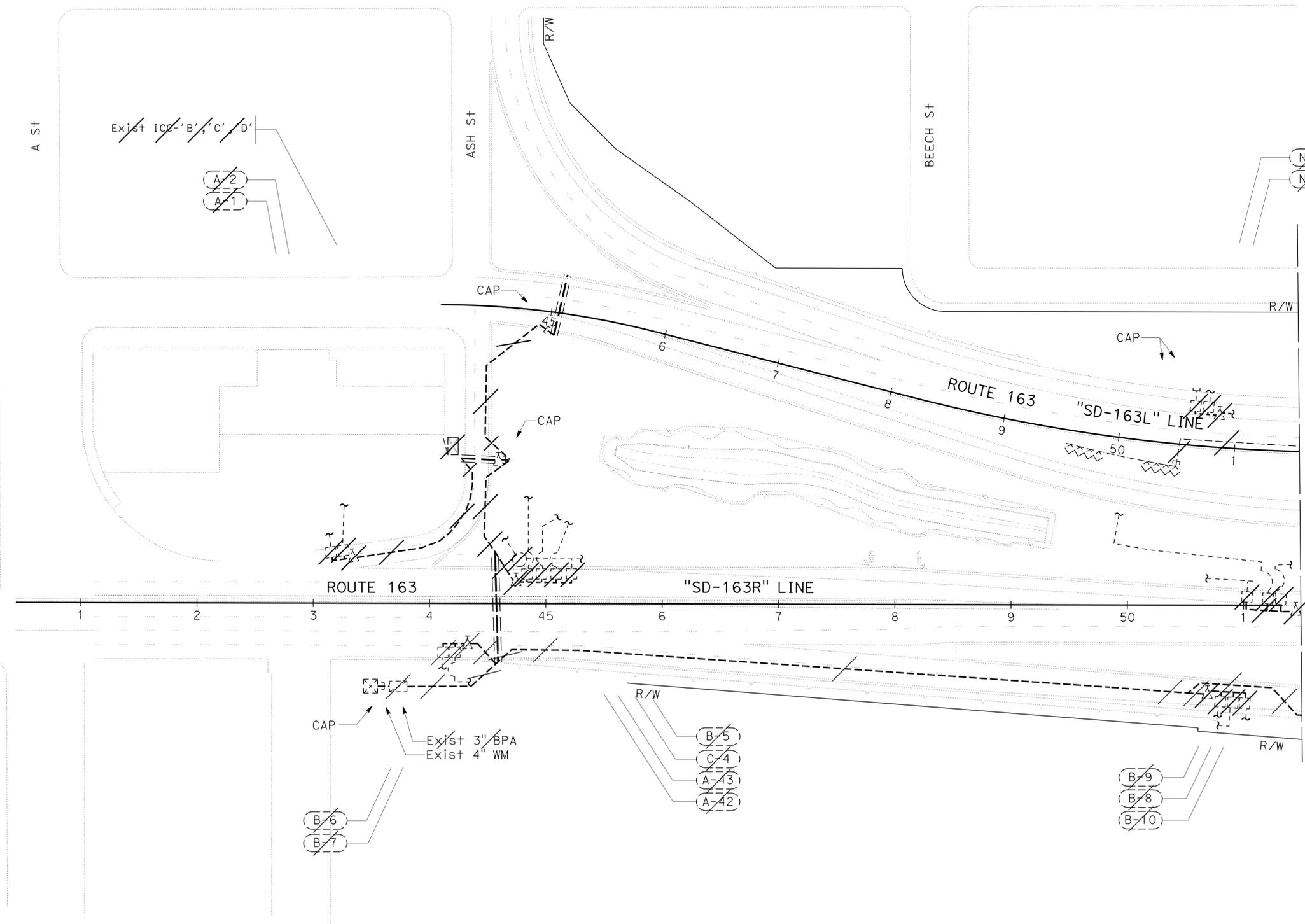
LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH NO. 3008  
 02-28-14  
 06-04-13

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

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE REVISED



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
BPA	1
IRRIGATION CONTROLLER	1
IRRIGATION CABINET	1
REMOTE CONTROL VALVE	20
GATE VALVE	8
SPRINKLER	162

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN**  
**IR-7**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	59	119

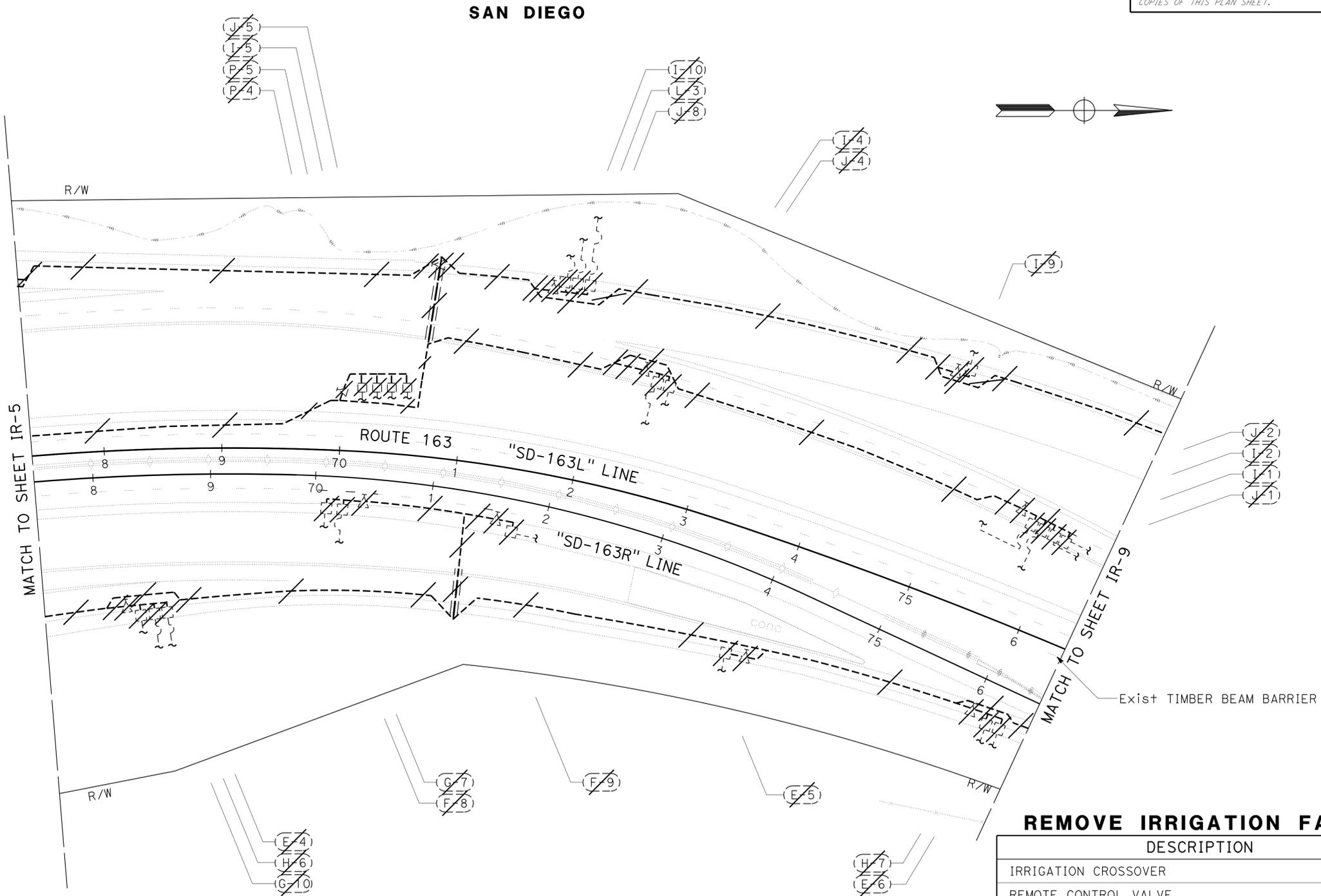
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

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

SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: CHECKED BY:  
 RAFAEL AMBROSI: RODNEY MAYFIELD  
 REVISED BY: DATE REVISED:



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
IRRIGATION CROSSOVER	2
REMOTE CONTROL VALVE	23
GATE VALVE	11
SPRINKLER	168

\*QUANTITIES ARE FOR INFORMATION ONLY

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN**  
**IR-8**

SCALE: 1" = 50'

LAST REVISION: 12-06-13 DATE PLOTTED => 09-DEC-2013 TIME PLOTTED => 14:38

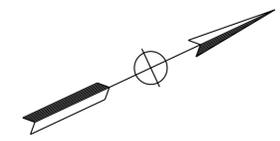
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	60	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

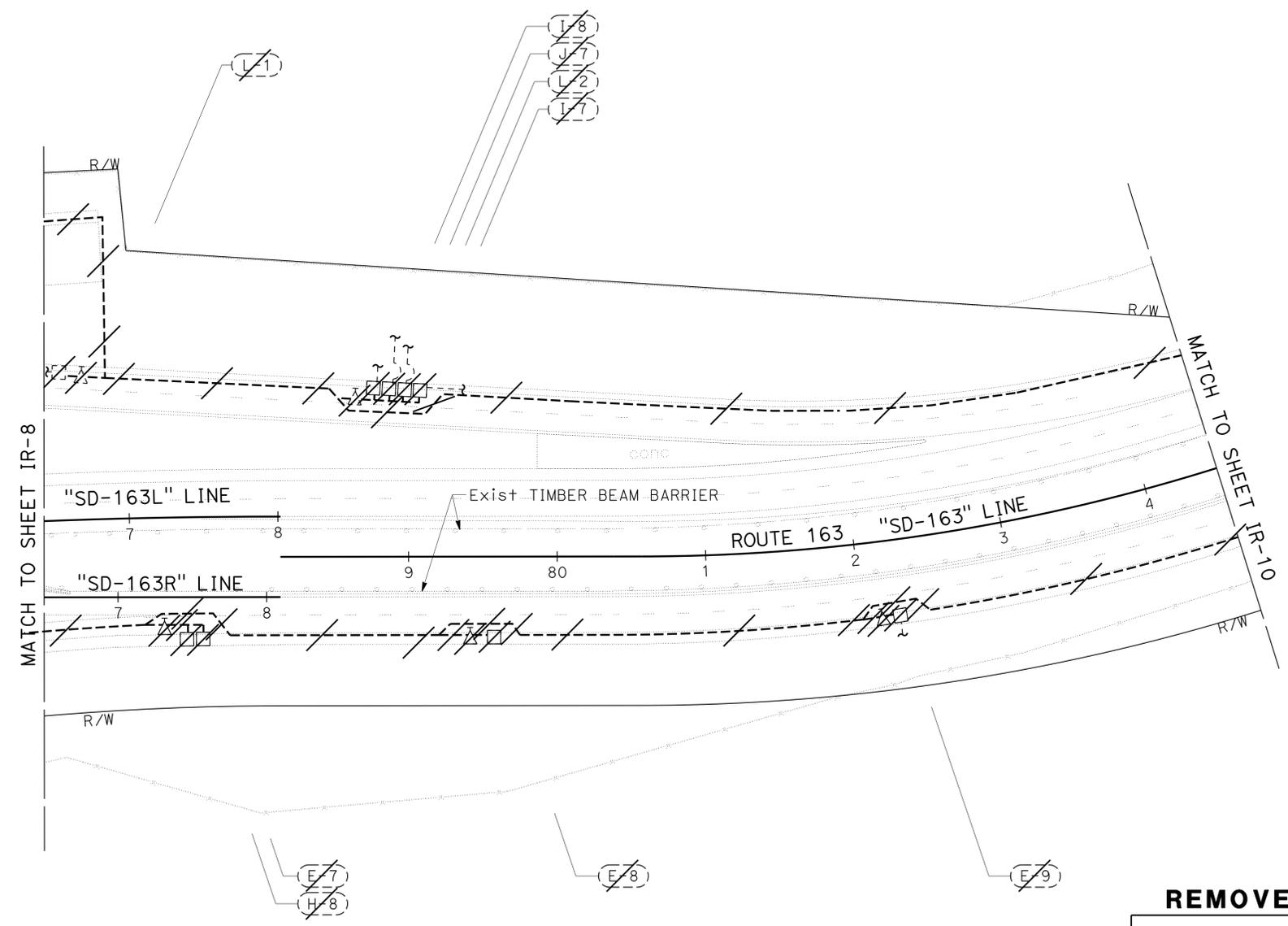
THE STATE OF CALIFORNIA OR ITS OFFICERS  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
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 COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH NO. 3008  
 02-28-14  
 06-04-13

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx R+ "SD-163L" 76+00.



**SAN DIEGO**



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
REMOTE CONTROL VALVE	9
GATE VALVE	5
SPRINKLER	92

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN  
IR-9**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]  
 RAFAEL AMBROSI RODNEY MAYFIELD  
 REVISED BY: [blank] DATE: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	61	119

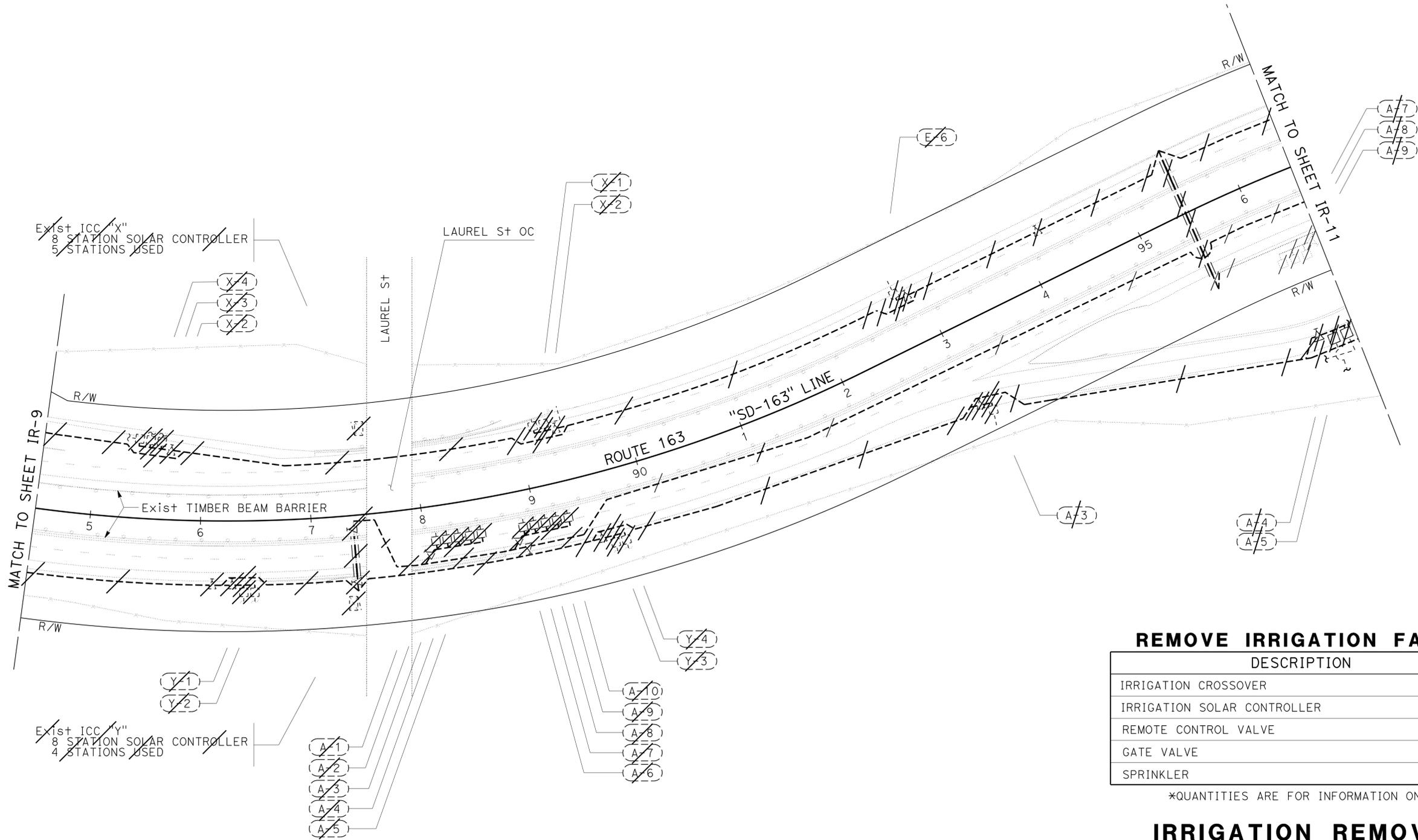
LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.



**SAN DIEGO**



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
IRRIGATION CROSSOVER	2
IRRIGATION SOLAR CONTROLLER	2
REMOTE CONTROL VALVE	26
GATE VALVE	14
SPRINKLER	200

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN  
IR-10**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ

CALCULATED/DESIGNED BY: RAFAEL AMBROSI

CHECKED BY: RODNEY MAYFIELD

REVISOR: RAFAEL AMBROSI

DATE: 7/2/2010

USERNAME => s127400  
DGN FILE => 1100020306sn010.dgn

RELATIVE BORDER SCALE 1" = 10' INCHES

UNIT 2816

PROJECT NUMBER & PHASE

11000203061

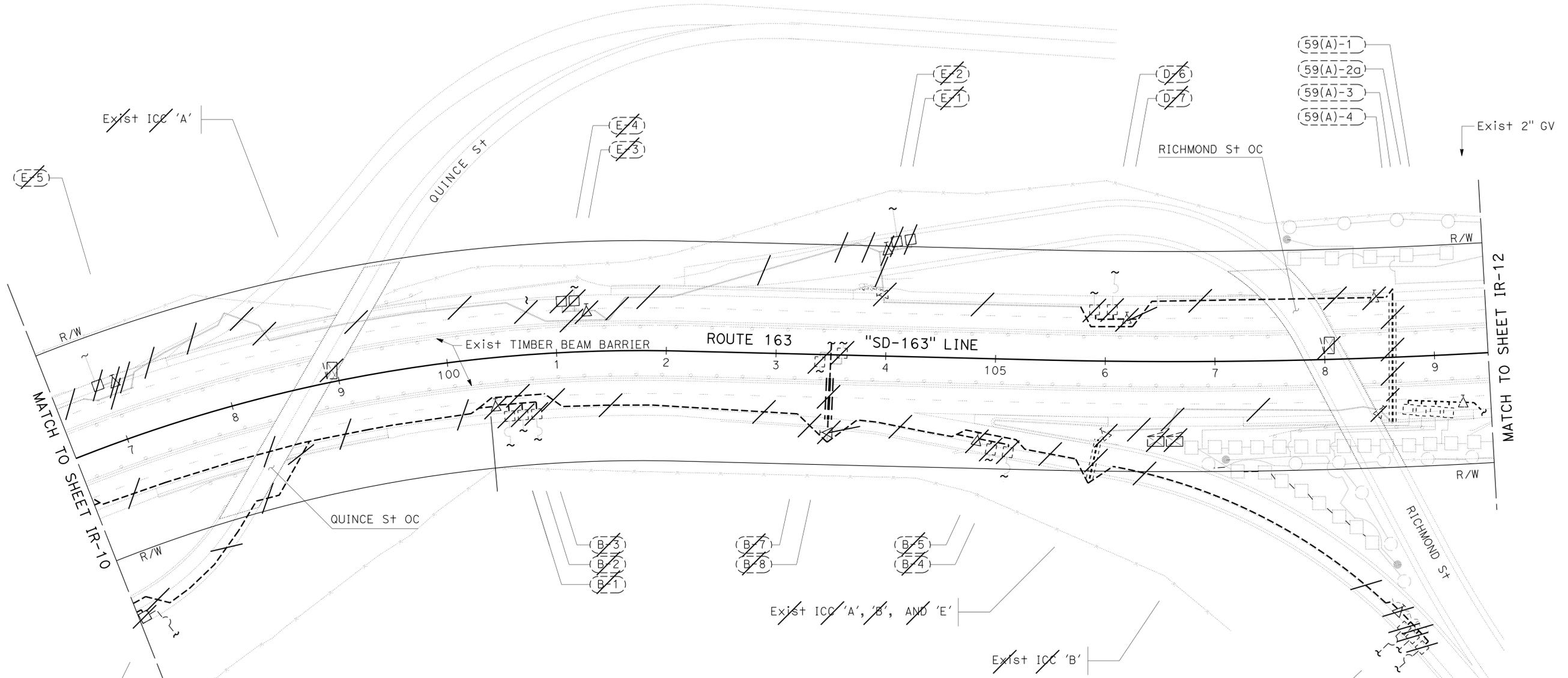
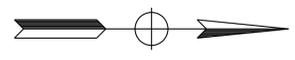
LAST REVISION: 12-06-13 DATE PLOTTED => 09-DEC-2013 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	62	119

LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

**SAN DIEGO**



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
IRRIGATION Crossover	2
IRRIGATION CONTROLLER	3
IRRIGATION CABINET	4
REMOTE CONTROL VALVE	18
GATE VALVE	12
SPRINKLER	125

\*QUANTITIES ARE FOR INFORMATION ONLY

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

**IRRIGATION REMOVAL PLAN  
IR-11**

SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 RAFAEL AMBROSI  
 RODNEY MAYFIELD  
 REVISED BY: [blank]  
 DATE REVISED: [blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	63	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

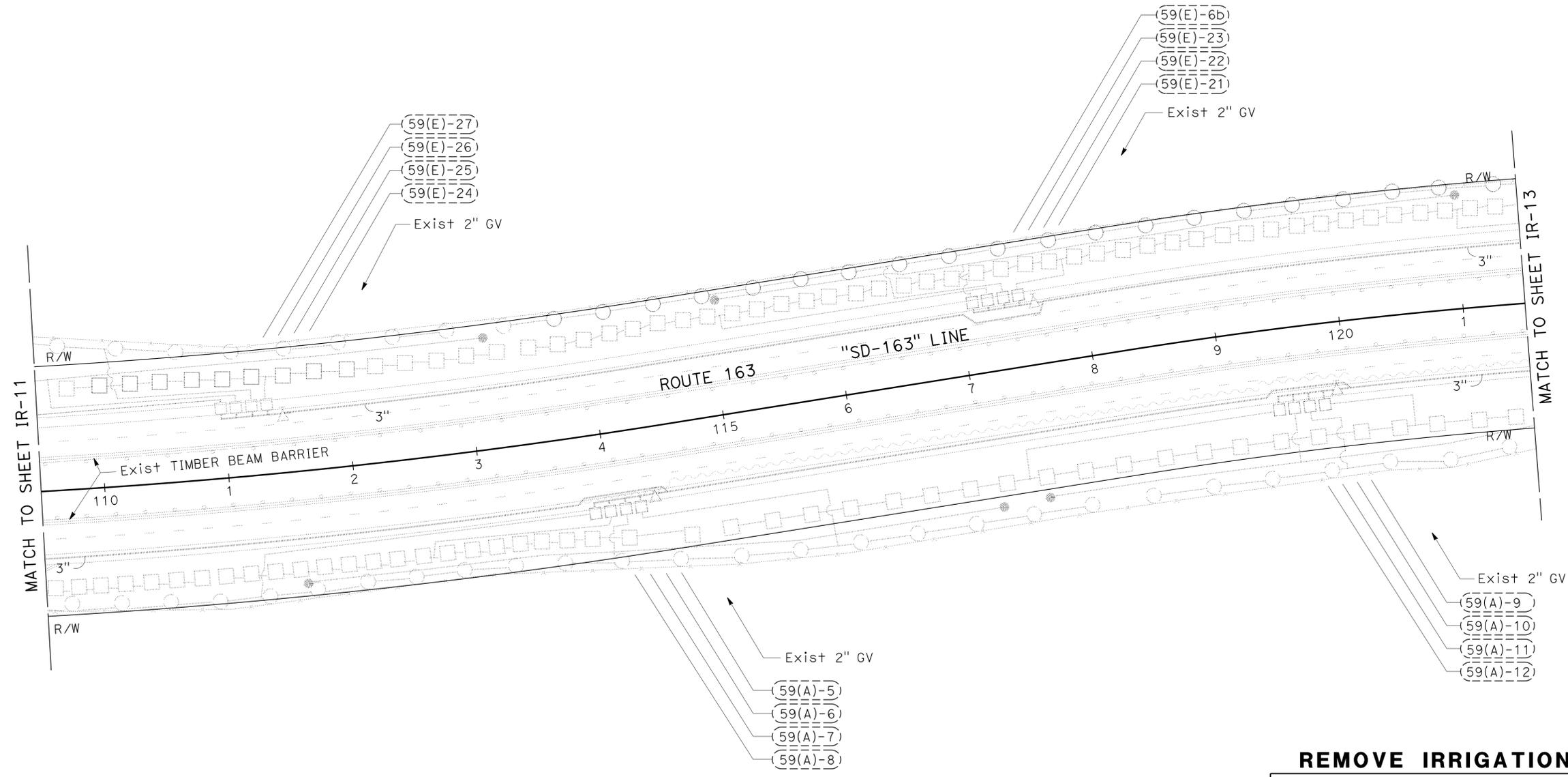
THE STATE OF CALIFORNIA OR ITS OFFICERS  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
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 COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.



**SAN DIEGO**



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
REMOTE CONTROL VALVE	0
GATE VALVE	0
SPRINKLER	51

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN  
IR-12**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	JOHN NEWLON	7/2/2010
		RUDY MEDINA	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	64	119

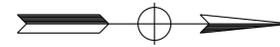
12-09-13  
 PLANS APPROVAL DATE

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.

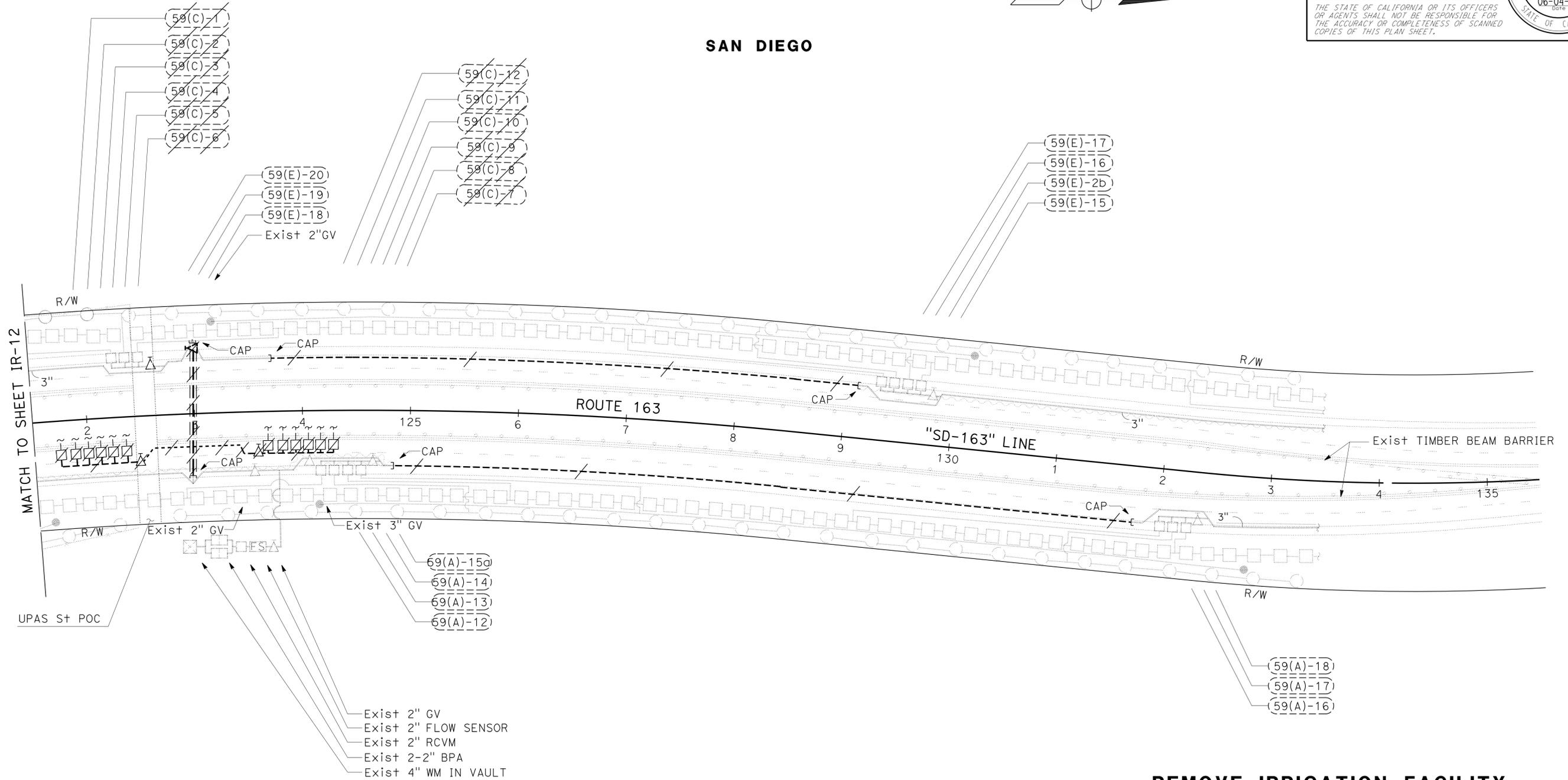


**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.



**SAN DIEGO**



**REMOVE IRRIGATION FACILITY**

DESCRIPTION	EA*
IRRIGATION CROSSOVER	1
REMOTE CONTROL VALVE	12
GATE VALVE	3
SPRINKLER	58

\*QUANTITIES ARE FOR INFORMATION ONLY

**IRRIGATION REMOVAL PLAN  
IR-13**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION REMOVAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 JOHN NEWLON  
 REVISOR  
 RODNEY MAYFIELD  
 CHECKER  
 STEPHEN ALVAREZ  
 ARCHITECT



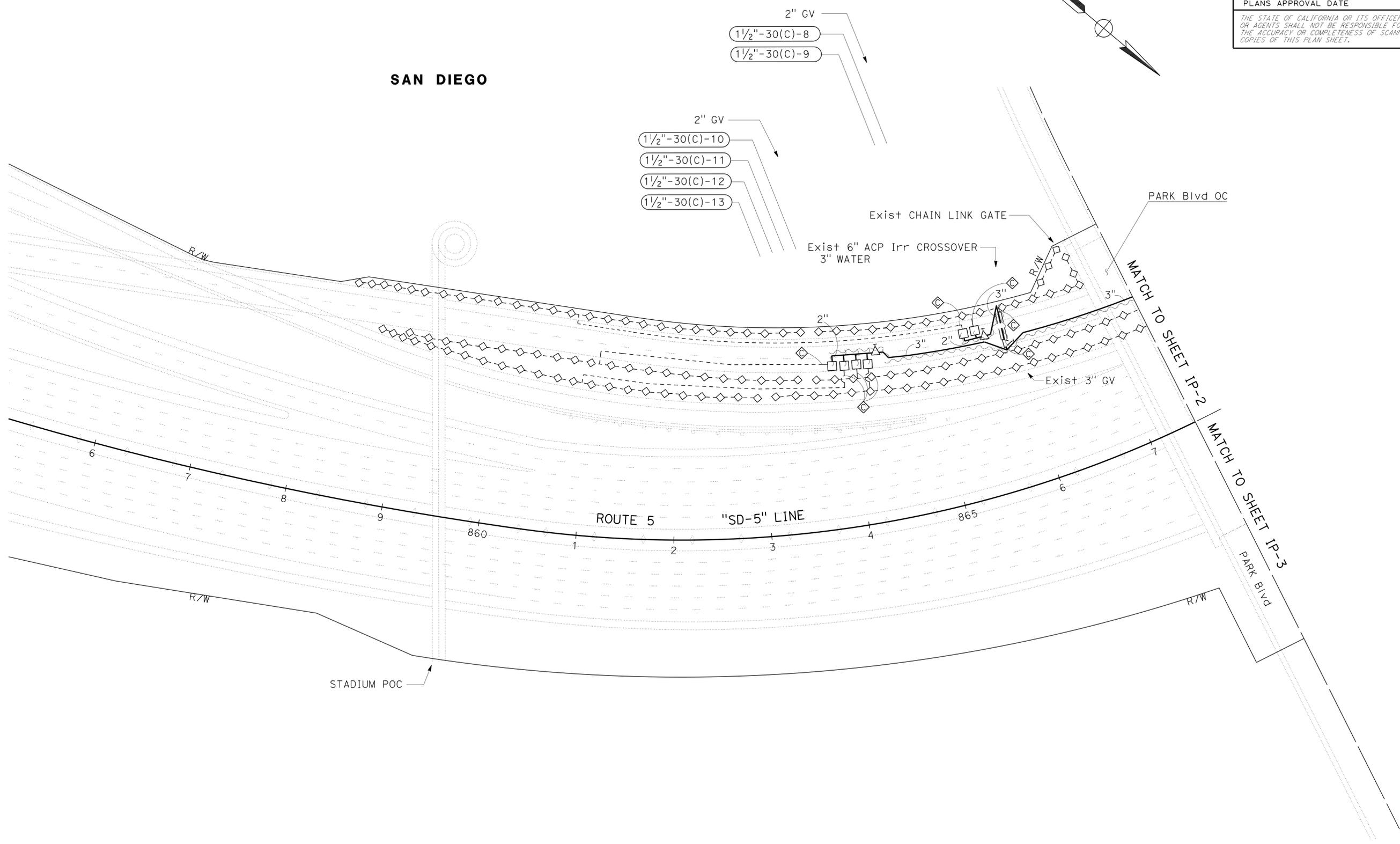
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	65	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.

KENNETH L. MAH No. 3003  
 02-28-14  
 06-04-13  
 State of California

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans® LANDSCAPE ARCHITECTURE	RODNEY MAYFIELD	KENNY MAH
	CALCULATED/DESIGNED BY	CHECKED BY
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ	



APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN**  
**IP - 1**  
 SCALE: 1" = 50'

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:38



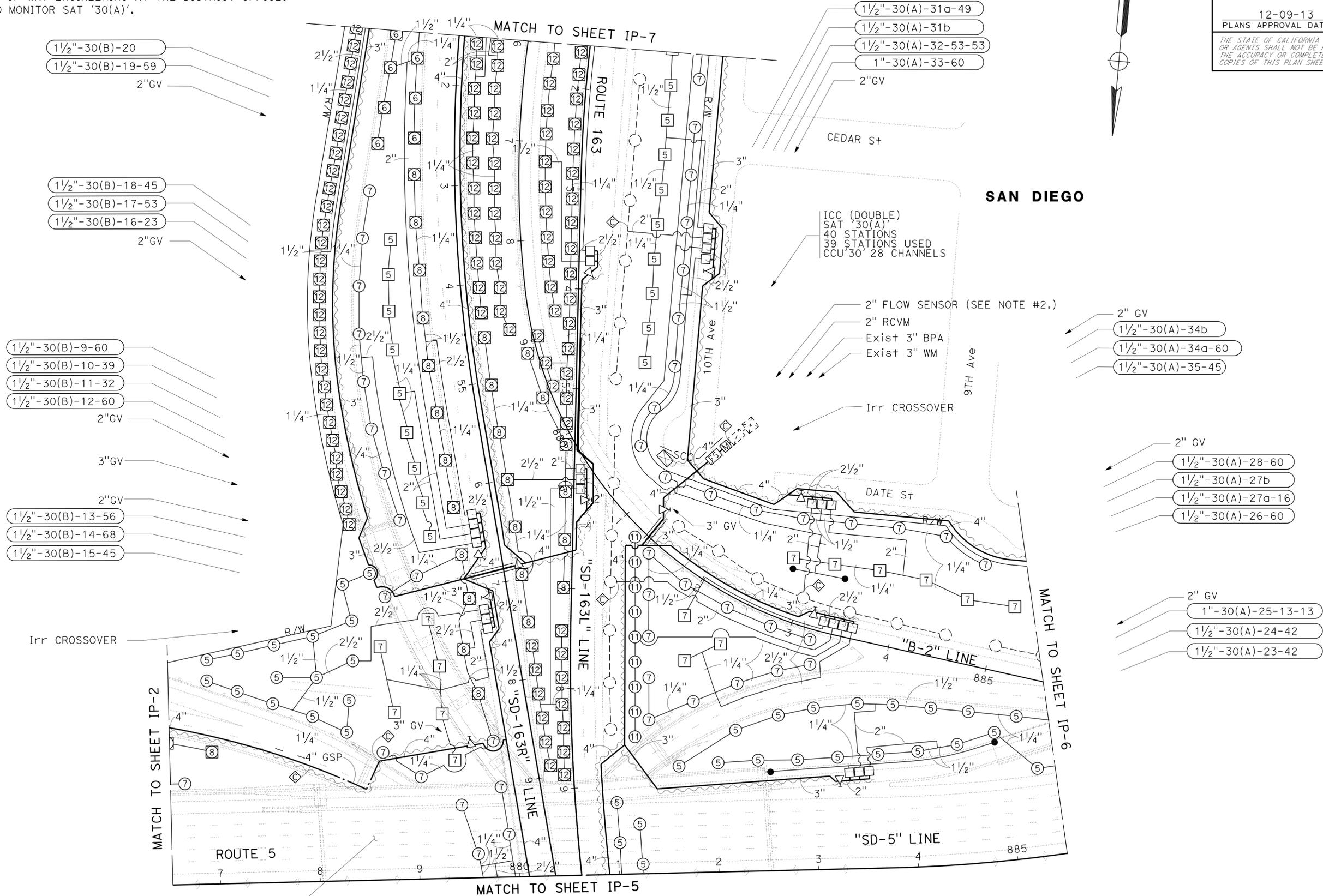


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	68	119

LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH  
 12-09-13  
 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.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FS TO MONITOR SAT '30(A)'.



- 1 1/2" - 30(B) - 20
- 1 1/2" - 30(B) - 19-59
- 2" GV
- 1 1/2" - 30(B) - 18-45
- 1 1/2" - 30(B) - 17-53
- 1 1/2" - 30(B) - 16-23
- 2" GV
- 1 1/2" - 30(B) - 9-60
- 1 1/2" - 30(B) - 10-39
- 1 1/2" - 30(B) - 11-32
- 1 1/2" - 30(B) - 12-60
- 2" GV
- 3" GV
- 2" GV
- 1 1/2" - 30(B) - 13-56
- 1 1/2" - 30(B) - 14-68
- 1 1/2" - 30(B) - 15-45

- 1 1/2" - 30(A) - 31a-49
- 1 1/2" - 30(A) - 31b
- 1 1/2" - 30(A) - 32-53-53
- 1" - 30(A) - 33-60
- 2" GV

- 2" GV
- 1 1/2" - 30(A) - 34b
- 1 1/2" - 30(A) - 34a-60
- 1 1/2" - 30(A) - 35-45
- 2" GV
- 1 1/2" - 30(A) - 28-60
- 1 1/2" - 30(A) - 27b
- 1 1/2" - 30(A) - 27a-16
- 1 1/2" - 30(A) - 26-60
- 2" GV
- 1" - 30(A) - 25-13-13
- 1 1/2" - 30(A) - 24-42
- 1 1/2" - 30(A) - 23-42

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 RODNEY MAYFIELD  
 KENNY MAH  
 CHECKED BY  
 DESIGNED BY  
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN IP-4**  
SCALE: 1" = 50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	69	119

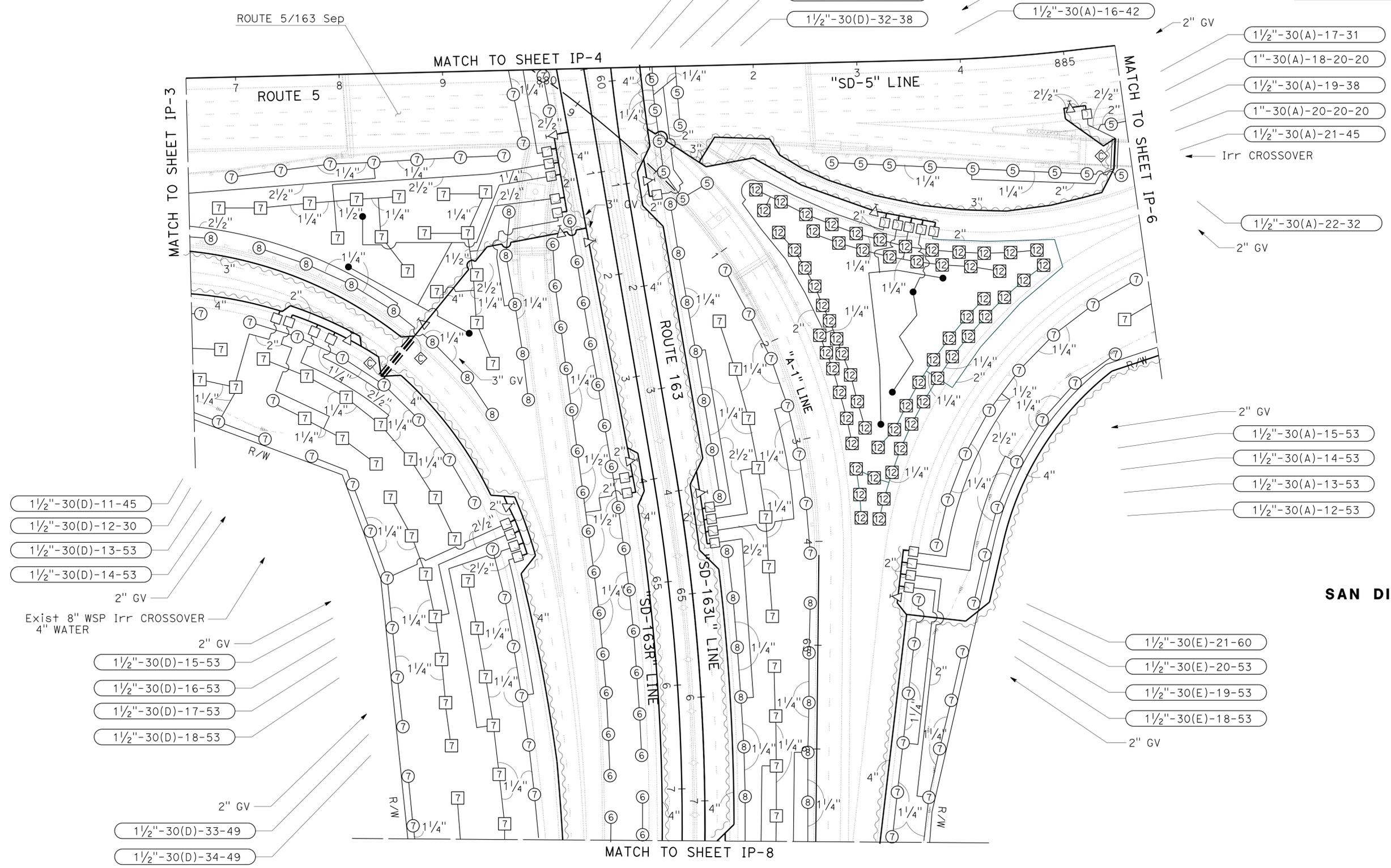
12-09-13  
 PLANS APPROVAL DATE

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	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	RUDY MEDINA	
	KENNY MAH	
SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	CHECKED BY
STEPHEN ALVAREZ		



- 1 1/2"-30(D)-11-45
- 1 1/2"-30(D)-12-30
- 1 1/2"-30(D)-13-53
- 1 1/2"-30(D)-14-53

- 1 1/2"-30(D)-15-53
- 1 1/2"-30(D)-16-53
- 1 1/2"-30(D)-17-53
- 1 1/2"-30(D)-18-53

- 1 1/2"-30(D)-33-49
- 1 1/2"-30(D)-34-49

- 1 1/2"-30(D)-28-53
- 1 1/2"-30(D)-29-60
- 1"-30(D)-30-18-18
- 1 1/2"-30(D)-31-60
- 1 1/2"-30(D)-32-38

- 1 1/2"-30(A)-17-31
- 1"-30(A)-18-20-20
- 1 1/2"-30(A)-19-38
- 1"-30(A)-20-20-20
- 1 1/2"-30(A)-21-45

- 1 1/2"-30(A)-22-32

- 1 1/2"-30(A)-15-53
- 1 1/2"-30(A)-14-53
- 1 1/2"-30(A)-13-53
- 1 1/2"-30(A)-12-53

- 1 1/2"-30(E)-21-60
- 1 1/2"-30(E)-20-53
- 1 1/2"-30(E)-19-53
- 1 1/2"-30(E)-18-53

APPROVED FOR IRRIGATION WORK ONLY

SCALE: 1" = 50'

**IRRIGATION PLAN  
IP-5**

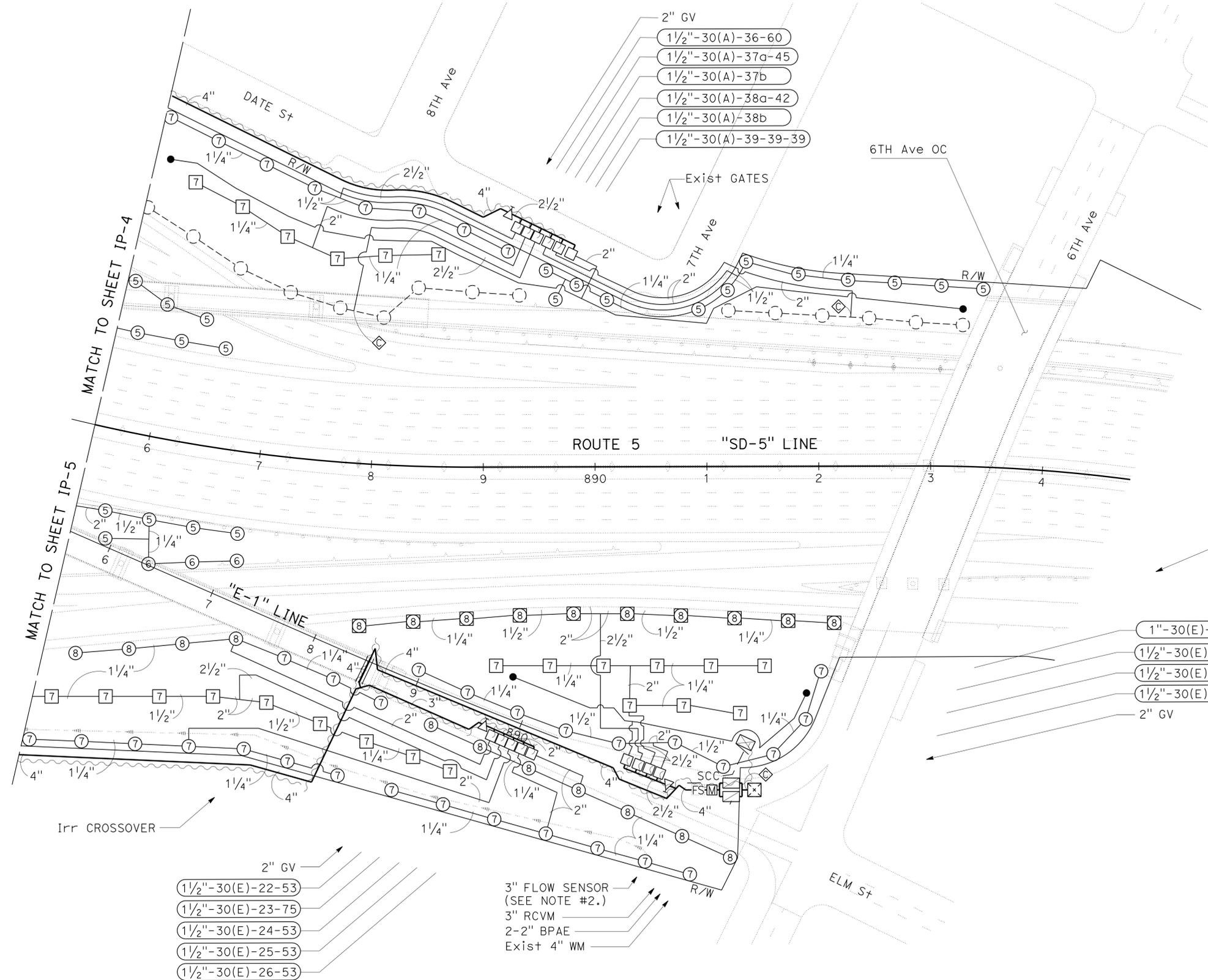
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	70	119

LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH  
 12-09-13  
 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.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FS TO MONITOR SAT '30(E)'.

**SAN DIEGO**



ICC (SINGLE)  
SAT '30(E)'  
40 STATION  
29 STATIONS USED

- 1"-30(E)-27-12-12
- 1/2"-30(E)-28-75
- 1/2"-30(E)-29-68
- 1/2"-30(E)-30-75
- 2" GV

- 2" GV
- 1/2"-30(E)-22-53
- 1/2"-30(E)-23-75
- 1/2"-30(E)-24-53
- 1/2"-30(E)-25-53
- 1/2"-30(E)-26-53
- 3" FLOW SENSOR (SEE NOTE #2.)
- 3" RCVM
- 2-2" BPAE
- Exist 4" WM

APPROVED FOR IRRIGATION WORK ONLY

SCALE: 1" = 50'

**IRRIGATION PLAN  
IP-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED/DESIGNED BY	CHECKED BY
RODNEY MAYFIELD	NEIL BLEEKER
REVISOR	DATE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	72	119

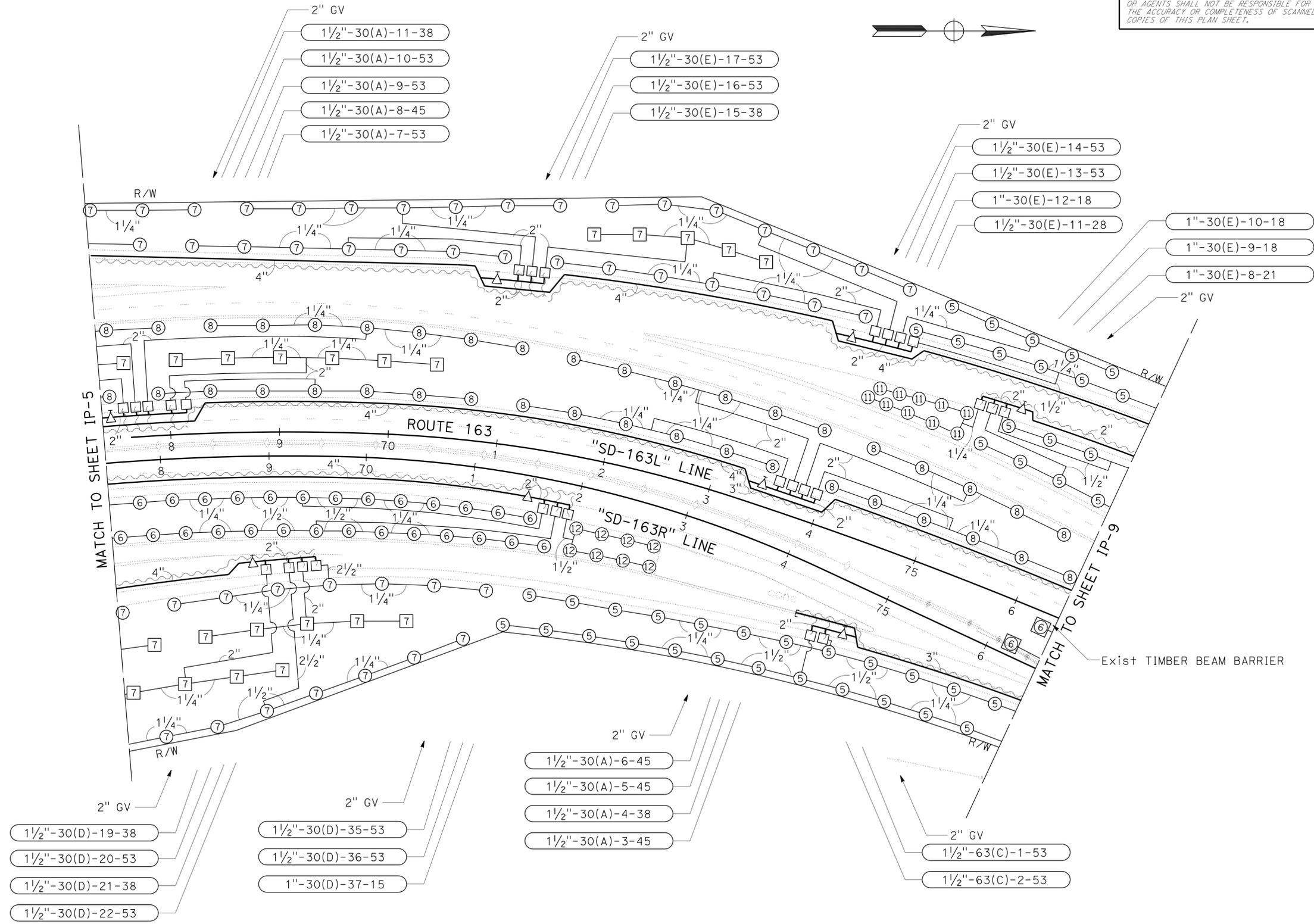
 LICENSED LANDSCAPE ARCHITECT		
12-09-13 PLANS APPROVAL DATE		

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.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- A-6 SPRINKLERS IN MEDIAN TO BE INSTALLED 30" FROM BACK OF TIMBER BEAM BARRIER.
- TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	RUDY MEDINA	RODNEY MAYFIELD
	SENIOR LANDSCAPE ARCHITECT	CHECKED BY
	CALCULATED-DESIGNED BY	CHECKED BY
	STEPHEN ALVAREZ	

APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN**  
**IP-8**  
SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	73	119

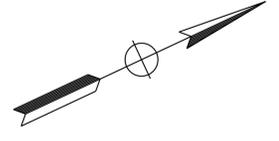
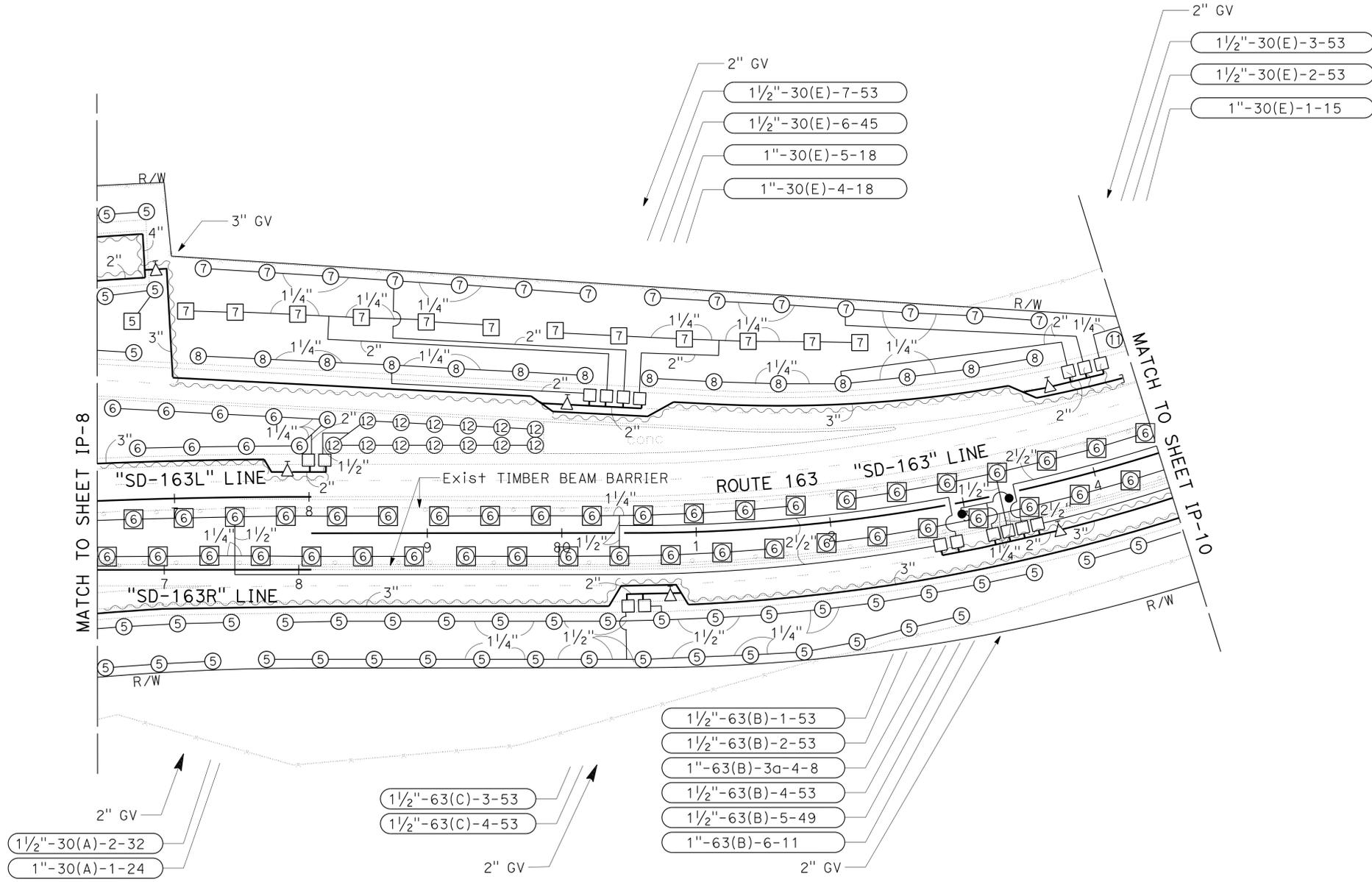
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- A-6 SPRINKLERS IN MEDIAN TO BE INSTALLED 30" FROM BACK OF TIMBER BEAM BARRIER.
- TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR
<b>Caltrans</b>		STEPHEN ALVAREZ	JOHN NEWLON	JOHN NEWLON
			CHECKED BY	DATE REVISOR
			RUDY MEDINA	

**SAN DIEGO**



APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN**  
**IP-9**  
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38





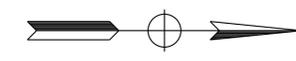


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	77	119

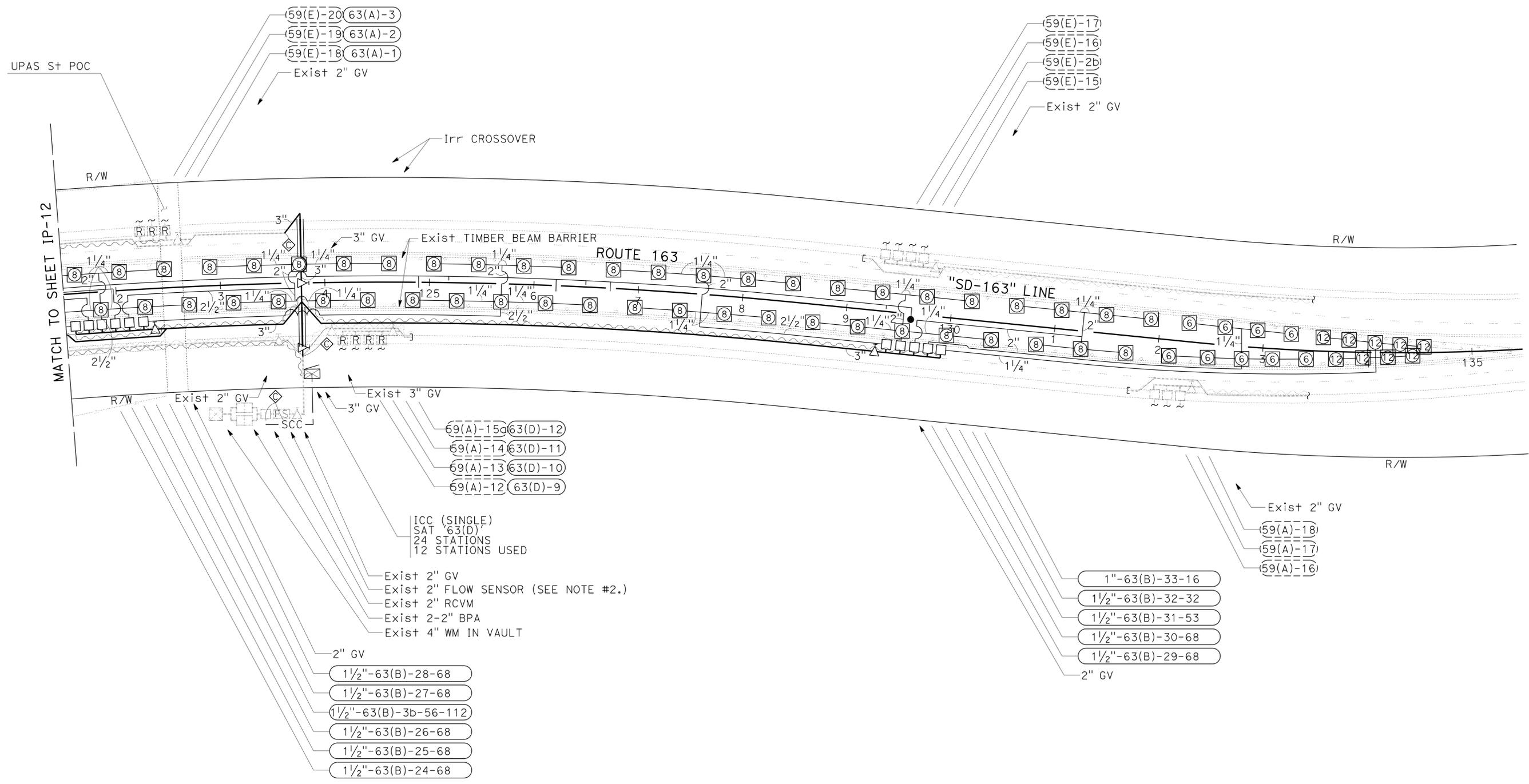
Signature: *Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FS TO MONITOR SAT '63(A), 63(B), 63(C) AND 63(D)'.
- A-6 AND A-8 SPRINKLERS IN MEDIAN TO BE INSTALLED 30" FROM BACK OF TIMBER BEAM BARRIER.
- TIMBER BEAM BARRIER OPENING AT Approx Rt+ "SD-163L" 76+00.



**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 CHECKED BY  
 CALCULATED/DESIGNED BY  
 JOHN NEWLON  
 REVISED BY  
 DATE  
 KENNY MAH  
 DATE REVISIED

APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN**  
**IP-13**  
SCALE: 1" = 50'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	78	119

*Kenneth L. Mah*  
LICENSED LANDSCAPE ARCHITECT

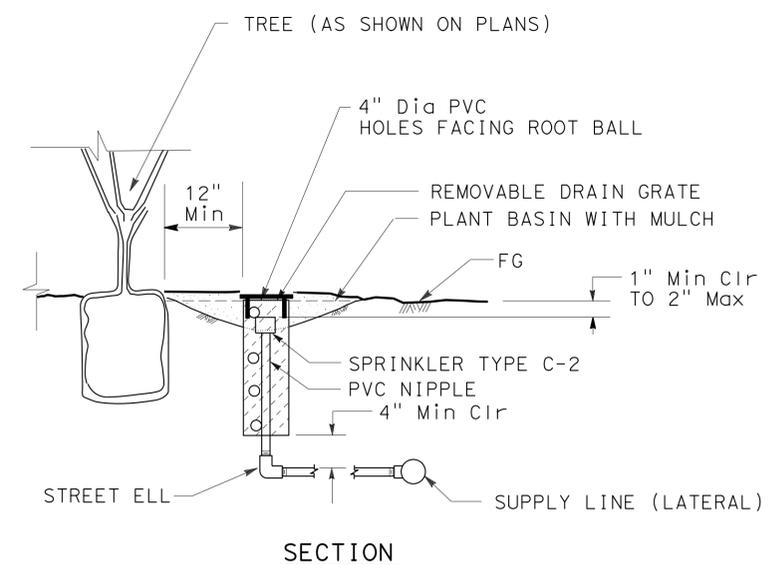
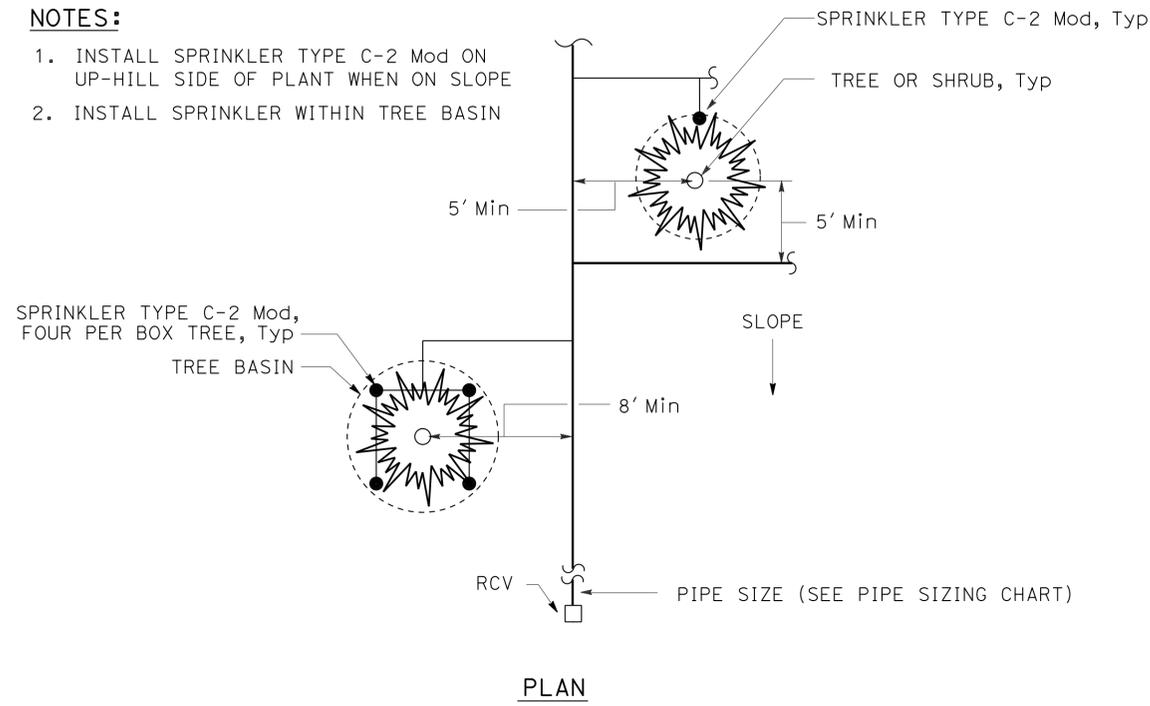
12-09-13  
PLANS APPROVAL DATE

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.

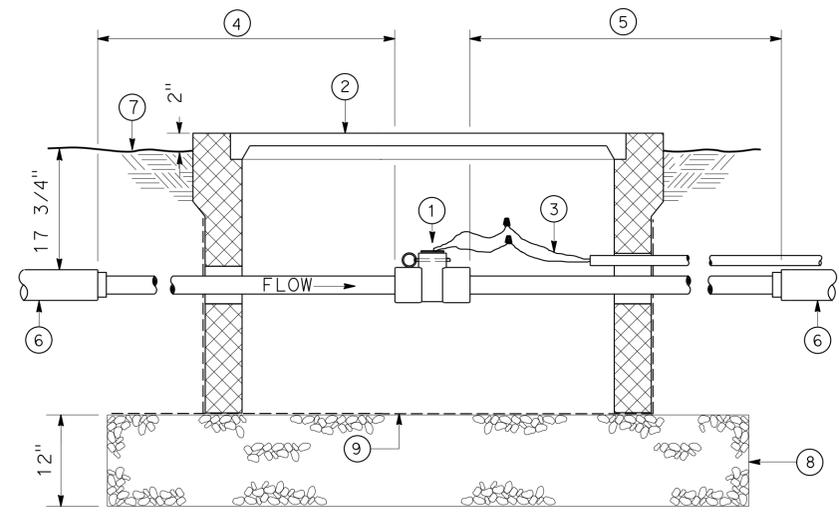
LICENSED LANDSCAPE ARCHITECT  
KENNETH L. MAH NO. 3003  
*Kenneth L. Mah*  
02-28-14  
06-04-13  
DATE

**NOTES:**

1. INSTALL SPRINKLER TYPE C-2 Mod ON UP-HILL SIDE OF PLANT WHEN ON SLOPE
2. INSTALL SPRINKLER WITHIN TREE BASIN



**SPRINKLER TYPE C-2 Mod INSTALLATION**



- ① - FLOW SENSOR
- ② - RECTANGULAR VALVE BOX (SIZE AS REQUIRED)
- ③ - SHIELDED FLOW SENSOR CABLE  
INSTALL IN 1" ELECTRICAL CONDUIT WITH RCV CONTROL WIRES
- ④ - 2" SCH 40 PVC PIPE - LENGTH = 10 X Dia OF SUPPLY LINE
- ⑤ - 2" SCH 40 PVC PIPE - LENGTH = 5 X Dia OF SUPPLY LINE
- ⑥ - SCH 40 PVC SUPPLY LINE (SIZE PER PLANS)
- ⑦ - FINISHED GRADE
- ⑧ - 3/4" GRAVEL OR CRUSHED ROCK
- ⑨ - 1/2" MESH 18 GAUGE GALVANIZED WIRE FABRIC  
(COVER VALVE BOX BOTTOM AND ALL CUT-OUTS)

**FLOW SENSOR**

**IRRIGATION DETAILS**  
**ID-1**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT

STEPHEN ALVAREZ

CALCULATED/DESIGNED BY

JOHN NEWLON

CHECKED BY

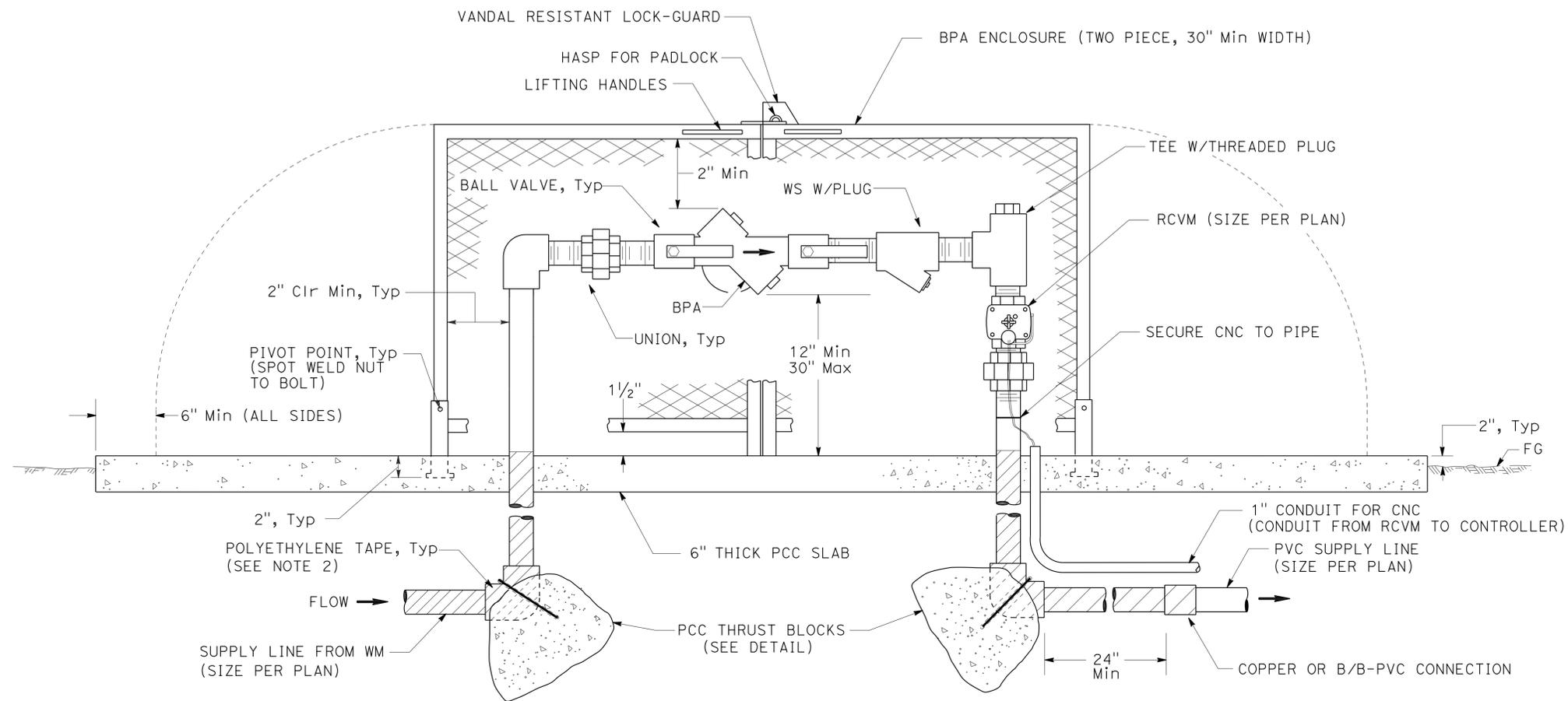
KENNY MAH

REVISED BY

DATE

REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	79	119
 LICENSED LANDSCAPE ARCHITECT					
12-09-13 PLANS APPROVAL DATE					
<small>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.</small>					



ELEVATION

**NOTES:**

1. WS AND FITTINGS SHALL BE SAME SIZE AS BACKFLOW PREVENTER SHOWN ON PLANS. BPA SHALL BE CONSTRUCTED WITH COPPER PIPE FROM WM THROUGH BPA TO CONNECTION TO PVC AS SHOWN ON DETAIL.
2. ALL METAL IN CONTACT WITH SOIL AND PCC SHALL BE POLYETHYLENE WRAPPED USING 2 INCH WIDE PLASTIC BACKED ADHESIVE TAPE 0.020 INCH THICK WITH 1/2 INCH OVERLAP.

**BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPAE)  
AND REMOTE CONTROL VALVE MASTER (RCVM)**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 JOHN NEWLON  
 KENNY MAH  
 REVISIONS BY  
 DATE  
 DESIGNED BY  
 CHECKED BY  
 STEPHEN ALVAREZ

**IRRIGATION DETAILS**  
**ID-2**  
 NO SCALE

LAST REVISION DATE PLOTTED => 09-DEC-2013  
 12-06-13 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	80	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT

12-09-13  
 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.

### IRRIGATION CROSSOVERS

SHEET	LINE	STATION	SIDE		PLASTIC PIPE SCH 40	CHDPE	(N) WATERLINE CROSSOVER	(N) SPRINKLER CONTROL CROSSOVER
			Rt	Lt	LENGTH (LF)	LENGTH (LF)	SIZE (INCH)	SIZE (INCH)
					8" Dia	10" Dia		
IP-2	"A-1"	52+38		X	56		3	2
IP-3	"P-5"	874+45	X		24		3	2
IP-4	"B-2"	881+32		X	30		3	2
IP-4	"SD-163R"	56+86	X		50		3	2
IP-5	"SD-5"	885+40	X			29	2 AND 3	2
IP-6	"E-1"	888+50	X			26	3	2
IP-11	"R-13"	106+00		X	40		3	2
IP-13	"SD-163"	123+80	X		40		3	2
IP-13	"SD-163"	123+80		X	40		3	2
<b>TOTAL</b>					280	55		

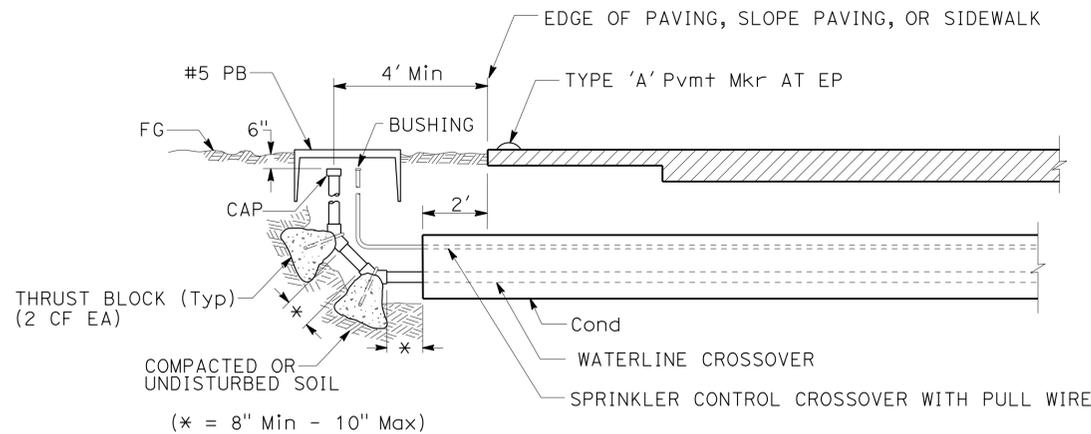
(N) - NOT A SEPARATE PAY ITEM  
 FOR INFORMATION ONLY  
 X - DENOTES REQUIREMENT

### THRUST BLOCK DETAIL

INSTALLATION	TYPE FITTING	INSTALLATION	TYPE FITTING
	90° ELL		DEAD END
	BEND 45° 22.5° 11.25°		GATE VALVE
			VERTICAL BEND (TYPE I) 45° 22.5° 11.25°
	TEE		VERTICAL BEND (TYPE II) 45° 22.5° 11.25°

**NOTES:**

- Min 1 CF PCC FOR 1 1/2" PIPE SIZE AND SMALLER.
- Min 2 CF PCC FOR 2" PIPE SIZE.
- Min 3 CF PCC FOR 3" AND 4" PIPE SIZE.
- USE #3 REINFORCING BAR WHERE SHOWN.



SECTION  
**IRRIGATION CROSSOVER**  
 (MODIFIED)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: RODNEY MAYFIELD  
 LANDSCAPE ARCHITECT: KENNY MAH  
 CALCULATED/DESIGNED BY: STEPHEN ALVAREZ  
 CHECKED BY:



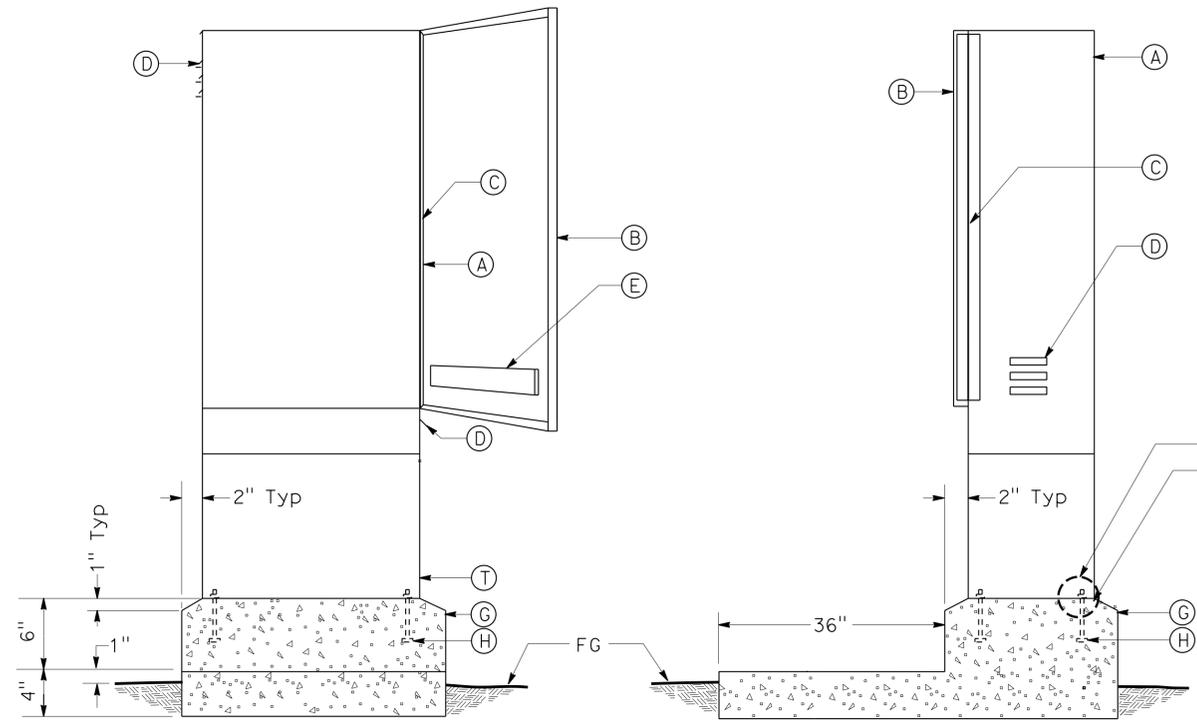
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	81	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT

12-09-13  
 PLANS APPROVAL DATE

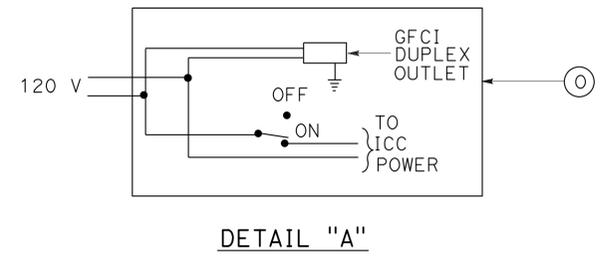
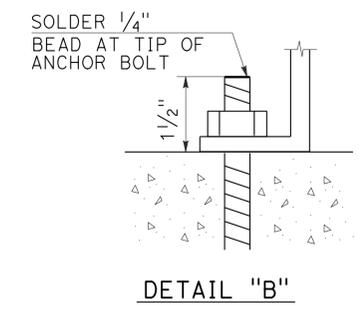
THE STATE OF CALIFORNIA OR ITS OFFICERS  
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR  
 THE ACCURACY OR COMPLETENESS OF SCANNED  
 COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT  
 KENNETH L. MAH No. 3030  
 02-28-14  
 06-04-13  
STATE OF CALIFORNIA

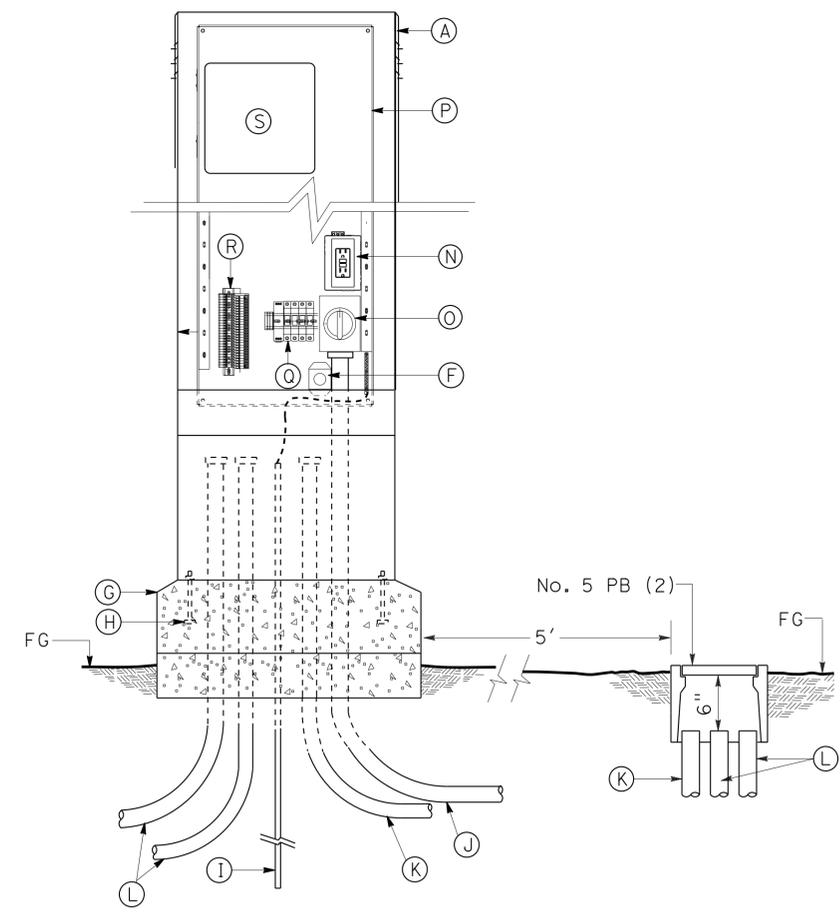


**FRONT ELEVATION**                      **SIDE SECTION**

**CABINET, SECURITY DOOR, AND FOUNDATION**



SEE DETAIL "B"  
 1/4" BEAD FLEXIBLE  
 WEATHERPROOF CLEAR  
 SILICONE SEALANT Cont  
 ALONG BOTTOM OF  
 CONTROLLER CABINET



**LEGEND:**

- (A) CONTROLLER ENCLOSURE CABINET
- (B) DOOR WITH STORAGE FOR PLANS
- (C) CONTINUOUS STAINLESS STEEL PIANO HINGE
- (D) LOUVERS AT TOP AND BOTTOM FOR CROSS VENTILATION
- (E) STORAGE COMPARTMENT
- (F) SURGE PROTECTION
- (G) PCC PAD AND FOUNDATION
- (H) 3/8" DIAMETER, 2 3/4" LONG, WINGED STAINLESS STEEL ANCHOR BOLTS WITH WASHERS AND HEX HEAD LOCKNUTS (4 BOLTS FOR SINGLE, 6 BOLTS FOR DOUBLE)
- (I) 5/8" X 10' LONG COPPER CLAD STEEL ROD GROUND ELECTRODE AND GROUND CLAMP WITH No. 8 AWG GROUND CONDUCTOR.
- (J) SIZE 1", TYPE 3 CONDUIT FOR ELECTRICAL SERVICE (2 FOR CABINET WITH TELEPHONE SERVICE)
- (K) SIZE 1 1/2", TYPE 3 CONDUIT FOR RCVM AND FS INPUT WIRING
- (L) SIZE 2", TYPE 3 CONDUIT FOR LOW VOLTAGE WIRING
- (N) 2 GANG WEATHER PROOF BOX WITH GROUND FAULT PROTECTED RECEPTACLE
- (O) ON-OFF SWITCH, SEE DETAIL "A" ON THIS SHEET
- (P) STAINLESS STEEL BACKBOARD ATTACHED TO ENCLOSURE
- (Q) CIRCUIT BREAKERS
- (R) TERMINAL STRIPS FOR LOW VOLTAGE WIRE CONNECTIONS
- (S) IRRIGATION CONTROLLER (IC)
- (T) 12" H RISER PEDESTAL

**IRRIGATION CONTROLLER ENCLOSURE CABINET (SINGLE)**

NO SCALE

**IRRIGATION DETAILS  
 ID-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT  
 KENNY MAH  
 RUDY MEDINA  
 CALCULATED-DESIGNED BY  
 CHECKED BY  
 REVISOR BY  
 DATE REVISED  
 12-06-13  
 14:38



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	83	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.

**SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE**

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER FOR CONTROLLER '30(A)'																																				SUBTOTALS	UNIT	DESCRIPTION					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27a	27b	28	29	30a	30b	31a	31b	32	33				34a	34b	35	36	
PLASTIC PIPE SUPPLY LINE SCH 40	1 INCH	LF	300	240	100	100	100	100	100	100	100	100	100	100	100	100	320	375	200	450	70	200	340	238	261	280	150	200	-	150	96	265	-	204	-	1300	90	92	-	90	96	7,307	LF	1 INCH	
	1 1/4 INCH	LF	-	80	160	100	160	160	200	160	200	200	100	200	200	200	80	25	35	25	95	150	200	177	150	-	200	240	-	200	144	232	-	142	-	60	192	192	-	140	150	5,149	LF	1 1/4 INCH	
	1 1/2 INCH	LF	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	40	56	-	-	-	-	-	-	-	105	-	30	48	48	-	-	48	455	LF	1 1/2 INCH		
	2 INCH	LF	-	20	160	200	160	160	160	180	280	180	140	200	200	100	180	180	300	-	25	-	270	250	100	84	-	-	-	225	-	10	-	70	133	76	-	-	110	140	-	4,293	LF	2 INCH	
	2 1/2 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	-	115	-	-	-	-	-	-	60	15	-	-	180	495	LF	2 1/2 INCH
	3 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LF	3 INCH	
SPRINKLER TYPE	A-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	15	12	12	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	65	EA	A-5		
	A-6	EA	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	EA	A-6		
	A-7	EA	-	-	-	-	-	-	6	-	-	5	-	7	7	-	-	-	-	-	-	-	-	-	-	8	-	-	8	-	6	-	-	-	-	8	8	-	6	8	77	EA	A-7		
	A-8	EA	-	-	6	5	6	6	7	-	7	7	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	EA	A-8		
	A-11	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	EA	A-11		
	A-12	EA	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	21	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	EA	A-12		
	C-2 Mod	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	20	-	-	-	-	13	-	-	-	-	-	-	-	-	-	53	-	-	-	-	106	EA	C-2 Mod		

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER FOR CONTROLLER '30(A)'					SUBTOTALS	UNIT	DESCRIPTION	
		37a	37b	38a	38b	39				
PLASTIC PIPE SUPPLY LINE SCH 40	1 INCH	LF	96	-	205	-	800	1,101	LF	1 INCH
	1 1/4 INCH	LF	140	-	212	-	20	372	LF	1 1/4 INCH
	1 1/2 INCH	LF	-	-	32	-	-	32	LF	1 1/2 INCH
	2 INCH	LF	250	-	205	312	-	767	LF	2 INCH
	2 1/2 INCH	LF	-	255	-	-	-	255	LF	2 1/2 INCH
	3 INCH	LF	-	-	-	-	-	-	LF	3 INCH
SPRINKLER TYPE	A-5	EA	-	-	12	-	-	12	EA	A-5
	A-6	EA	-	-	-	-	-	-	EA	A-6
	A-7	EA	6	-	-	-	-	6	EA	A-7
	A-8	EA	-	-	-	-	-	-	EA	A-8
	A-11	EA	-	-	-	-	-	-	EA	A-11
	A-12	EA	-	-	-	-	-	-	EA	A-12
	C-2 Mod	EA	-	-	-	-	39	39	EA	C-2 Mod

**IRRIGATION QUANTITIES  
IQ-1**

LAST REVISION: DATE PLOTTED => 09-DEC-2013      TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	84	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

02-28-14  
 06-04-13

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.

**SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE**

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER FOR CONTROLLER '30(B)'																										SUBTOTALS	UNIT	DESCRIPTION	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
PLASTIC PIPE SUPPLY LINE SCH 40	1 INCH	LF	-	-	282	295	298	-	-	215	96	318	218	98	440	84	164	277	96	96	582	-	400	470	91	87	163	92	4,862	LF	1 INCH
	1 1/4 INCH	LF	-	-	238	271	177	-	-	328	192	12	84	191	-	224	103	12	192	148	127	298	-	28	136	175	102	145	3,183	LF	1 1/4 INCH
	1 1/2 INCH	LF	-	-	40	-	-	-	10	20	48	20	-	48	82	102	-	250	-	-	-	-	-	-	175	48	-	-	843	LF	1 1/2 INCH
	2 INCH	LF	5	5	40	254	293	-	-	-	-	-	292	78	-	-	106	-	-	15	62	-	-	20	102	-	-	90	1,362	LF	2 INCH
	2 1/2 INCH	LF	-	-	-	-	-	10	-	296	15	-	-	80	168	28	-	-	74	-	20	-	-	-	145	202	-	-	1,038	LF	2 1/2 INCH
	3 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		LF	3 INCH
SPRINKLER TYPE	A-5	EA	-	-	-	-	-	-	-	-	-	9	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	25	EA	A-5	
	A-6	EA	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	16	EA	A-6	
	A-7	EA	-	-	-	-	-	-	-	-	-	8	-	5	6	-	-	-	-	-	-	-	-	-	-	-	-	19	EA	A-7	
	A-8	EA	-	-	-	-	-	-	-	8	-	-	-	4	-	-	7	6	-	-	-	-	-	6	8	-	6	45	EA	A-8	
	A-11	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-11	
	A-12	EA	-	-	26	24	20	-	-	32	-	-	-	-	-	-	13	-	-	33	-	-	21	-	-	-	-	169	EA	A-12	
	C-2 Mod	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	24	EA	C-2 Mod	

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER FOR CONTROLLER '30(C)'													SUBTOTALS	UNIT	DESCRIPTION
		1	2	3	4	5	6	7	8	9	10	11	12	13			
PLASTIC PIPE SUPPLY LINE SCH 40	1 INCH	LF	92	92	100	155	-	-	-	-	-	-	-	-	439	LF	1 INCH
	1 1/4 INCH	LF	182	182	50	18	10	-	-	-	-	-	-	-	442	LF	1 1/4 INCH
	1 1/2 INCH	LF	90	92	40	-	-	-	-	-	-	-	-	-	222	LF	1 1/2 INCH
	2 INCH	LF	-	-	-	-	-	-	2	2	2	2	2	2	12	LF	2 INCH
	2 1/2 INCH	LF	115	15	-	-	-	20	10	-	-	-	-	-	160	LF	2 1/2 INCH
	3 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-		LF	3 INCH
SPRINKLER TYPE	A-5	EA	-	-	-	4	-	-	-	-	-	-	-	4	EA	A-5	
	A-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-6	
	A-7	EA	9	-	-	-	-	-	-	-	-	-	-	9	EA	A-7	
	A-8	EA	-	9	-	-	-	-	-	-	-	-	-	9	EA	A-8	
	A-11	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-11	
	A-12	EA	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-12	
	C-2 Mod	EA	-	-	24	-	-	-	-	-	-	-	-	-	24	EA	C-2 Mod

**IRRIGATION QUANTITIES  
IQ-2**

LAST REVISION: DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	86	119

  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.



**SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE**

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER FOR CONTROLLER '63(A)'																SUBTOTALS	UNIT	DESCRIPTION
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
PLASTIC PIPE SUPPLY LINE SCH 40	1 INCH	LF	-	-	-	-	-	-	-	-	-	-	460	636	282	242	315	1,935	LF	1 INCH
	1 1/4 INCH	LF	-	-	-	-	-	-	-	-	-	-	420	46	104	162	42	774	LF	1 1/4 INCH
	1 1/2 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	78	58	40	-	176	LF	1 1/2 INCH
	2 INCH	LF	-	-	-	-	-	-	-	-	-	-	22	-	505	10	430	967	LF	2 INCH
	2 1/2 INCH	LF	-	-	-	-	-	-	-	-	-	-	62	350	-	-	-	412	LF	2 1/2 INCH
	3 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LF	3 INCH
SPRINKLER TYPE	A-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	12	12	11	35	EA	A-5
	A-6	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-6
	A-7	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-7
	A-8	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-8
	A-11	EA	-	-	-	-	-	-	-	-	-	-	29	32	-	-	-	61	EA	A-11
	A-12	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-12
	C-2 Mod	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	C-2 Mod

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER FOR CONTROLLER '63(B)'																																	SUBTOTALS	UNIT	DESCRIPTION				
		1	2	3a	3b	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				33			
PLASTIC PIPE SUPPLY LINE SCH 40	1 INCH	LF	455	455	50	1520	455	455	530	170	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	11,770	LF	1 INCH	
	1 1/4 INCH	LF	38	38	-	810	38	-	-	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130	45	-	440	1,669	LF	1 1/4 INCH
	1 1/2 INCH	LF	38	38	-	230	38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	382	LF	1 1/2 INCH
	2 INCH	LF	-	-	-	-	-	-	-	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	310	-	1,345	LF	2 INCH	
	2 1/2 INCH	LF	560	270	-	500	10	285	-	380	190	10	190	380	380	190	-	10	170	380	380	190	-	10	190	380	380	190	10	190	380	190	10	190	-	-	-	6,595	LF	2 1/2 INCH	
	3 INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LF	3 INCH	
SPRINKLER TYPE	A-5	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-5		
	A-6	EA	15	15	-	-	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	69	EA	A-6		
	A-7	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-7		
	A-8	EA	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	-	-	205	EA	A-8		
	A-11	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EA	A-11		
	A-12	EA	-	-	-	-	-	-	6	-	-	-	-	-	-	-	4	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	9	22	EA	A-12		
	C-2 Mod	EA	-	-	8	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	EA	C-2 Mod		

**IRRIGATION QUANTITIES  
IQ-4**

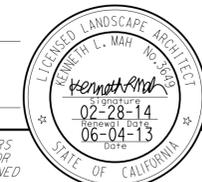
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: JOHN NEWLON  
 CHECKED BY: KENNY MAH  
 REVISED BY: JOHN NEWLON  
 DATE REVISED:

LAST REVISION: DATE PLOTTED => 09-DEC-2013  
 12-06-13 TIME PLOTTED => 14:38





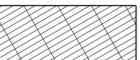
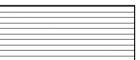
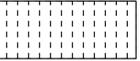
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	89	119

  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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.

**ABBREVIATIONS**

MC — MINOR CONCRETE  
 RTD CUT — ROOTED CUTTING(S)  
 TRVD — TRAVELED

**LEGEND:**

	MINOR CONCRETE (EXPOSED AGGREGATE)		COMPOST INCORPORATE MATERIALS WEED GERMINATION		MULCH (6" D)
	ROCK BLANKET		SOIL STABILIZER		XX CY MULCH (X TREES)
	ROCK MULCH				MULCH (3 CY PER Exist TREE, 3" DEPTH SPREAD 10' FROM TRUNK)

**PLANT LIST AND PLANTING SPECIFICATIONS**

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	IRON SULFATE ①	SOIL AMEND ①	FERTILIZER ①		BASIN MULCH ①③ (CY)	STAKING	PLANTING LIMITS						REMARKS		
							Dia	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (ft) FROM								
																ETW	Pvmt	FENCE	WALL	PAVED DITCH	EARTH DITCH		ON CENTER (ft)	
<b>A</b>	1		<u>ARCTOSTAPHYLOS 'PACIFIC MIST'</u>	PACIFIC MIST MANZANITA	No. 1	820	②	②	I	-	-	-	-	0.06	-	-	6	6	6	6	6	6	3.0	GROUND COVER
	2		<u>POLYSTICHUM MUNITUM</u>	SWORD FERN	No. 1	10	②	②	I	-	-	4 LB/ 1,000 SQFT	4 LB/ 1,000 SQFT	0.06	-	-	4	4	-	6	6	3.0	FERN	
<b>B</b>	3	⊕	<u>CALLISTEMON CITRINUS</u>	LEMON BOTTLEBRUSH	No. 5	8	②	②	I	-	-	3 Pkt	-	0.06	-	-	15	15	10	10	12	⑦	SHRUB	
	4	⊕	<u>CERCIS OCCIDENTALIS</u>	WESTERN REDBUD	No. 5	48	②	②	I	-	-	3 Pkt	-	0.06	-	-	15	15	10	10	12	⑦	SHRUB	
	5		<u>PARTHENICISSUS TRICUSPIDATA</u>	BOSTON IVY	No. 5	20	②	②	III	-	-	3 Pkt	-	0.06	-	-	15	15	10	10	12	10	SHRUB	
<b>F</b>	6		<u>QUERCUS ENGELMANNII</u>	MESA OAK	No. 5	50	②	②	I	-	-	3 Pkt	-	0.06	-	30	-	6	6	6	6	18	TREE	
	7		<u>VINCA MAJOR</u>	PERIWINKLE	IN FLATS	30,600	②	②	-	-	-	8 LB/ 1,000 SQFT	4 LB/ 1,000 SQFT	-	-	-	6	6	6	6	6	1.5	GROUND COVER	
<b>H</b>	8		<u>CARPOBROTUS EDULIS</u>	HOTTENTOT FIG	CUTTING ⑥	346,700	②	②	-	-	-	8 LB/ 1,000 SQFT	4 LB/ 1,000 SQFT	-	-	-	6	6	6	6	6	1.5	GROUND COVER	
<b>K</b>	9		<u>GINKO BILOBA</u>	MAIDENHAIR TREE	48" BOX	6	⑬	②	I⑭	-	-	8 Pkt	-	0.2	-	30	-	-	-	10	10	⑦	TREE	
	10		<u>OLEA EUROPAEA</u>	OLIVE	48" BOX MULTI	6	⑬	②	I⑭	-	-	8 Pkt	-	0.2	-	30	-	-	-	10	10	⑦	TREE	
	11		<u>PLATANUS RACEMOSA</u>	CALIFORNIA SYCAMORE	48" BOX	25	⑬	②	I⑭	-	-	8 Pkt	-	0.2	-	20	-	-	-	10	10	⑦	TREE	
	12		<u>QUERCUS AGRIFOLIA</u>	COAST LIVE OAK	48" BOX MULTI	15	⑬	②	I⑭	-	-	8 Pkt	-	0.2	-	20	-	-	-	10	10	⑦	TREE	
<b>T</b>	13		<u>DELTA SPECIAL SHADE BLEND</u>	TURFGRASS	TURF (SOD)	29,960 SQYD	-	-	-	-	-	8 LB/ 1,000 SQFT	4 LB/ 1,000 SQFT	-	-	-	6	6	6	6	6	⑦	TURF	
<b>U</b>	14		<u>GINKO BILOBA</u>	MAIDENHAIR TREE	No. 15	34	⑬	②	II	-	-	5 Pkt	8 oz	0.06	④	30	-	15	10	10	10	⑦	TREE	
	15		<u>JACARANDA MIMOSIFOLIA</u>	JACARANDA	No. 15	41	⑬	②	II	-	-	5 Pkt	8 oz	0.06	④	30	-	15	10	10	10	⑦	TREE	
	16		<u>PINUS CANARIENSIS</u>	CANARY ISLAND PINE	No. 15	58	⑬	②	II	-	-	5 Pkt	8 oz	0.06	④	30	-	15	10	10	10	⑦	TREE	
	17	⊙	<u>XYLOSMA CONGESTUM</u>	SHINY XYLOSMA	No. 15	8	⑬	②	1I	-	-	5 Pkt	8 oz	0.06	-	20	15	15	10	10	12	⑦	SHRUB	

**APPLICABLE WHEN CIRCLED:**

- |  |   |                                   |
|--|---|-----------------------------------|
| ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES. | ⑥ - SEE STANDARD SPECIFICATIONS.  | 12 - SEE STANDARD SPECIFICATIONS. |
| ② - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED.                      | ⑦ - AS SHOWN ON PLANS.  | ⑬ - 2X ROOT BALL WIDTH.           |
| ③ - WOOD CHIP MULCH  | 8 - UNLESS OTHERWISE SHOWN ON PLANS.                                      | ⑭ - 60 INCH Dia BASIN.            |
| ④ - SEE STANDARD DETAIL.   | 9 - FOLIAGE PROTECTOR REQUIRED.   |                                   |
| 5 - SEE SPECIAL PROVISIONS.  | 10 - APPLY COMPOST PRIOR TO CULTIVATION.                                  |                                   |
|  | 11 - BASIN MULCH INCLUDED WITH AREA MULCH WHERE TREE OCCUR IN MULCH AREA. |                                   |

**NOTES:**

- UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.
- DELTA SPECIAL SHADE BLEND CONSISTS OF:  
 30% TITANIUM LS TALL FESCUE  
 30% SPYDER LS TALL FESCUE  
 20% CARDINAL CREEPING RED FESCUE  
 10% RADAR CHEWINGS FESCUE  
 10% BLUE VELVET KENTUCKY BLUEGRASS

**PLANT LIST PL-1**

LAST REVISION DATE PLOTTED => 09-DEC-2013  
 12-06-13 TIME PLOTTED => 1:4:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	90	119

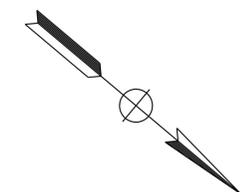
*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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.

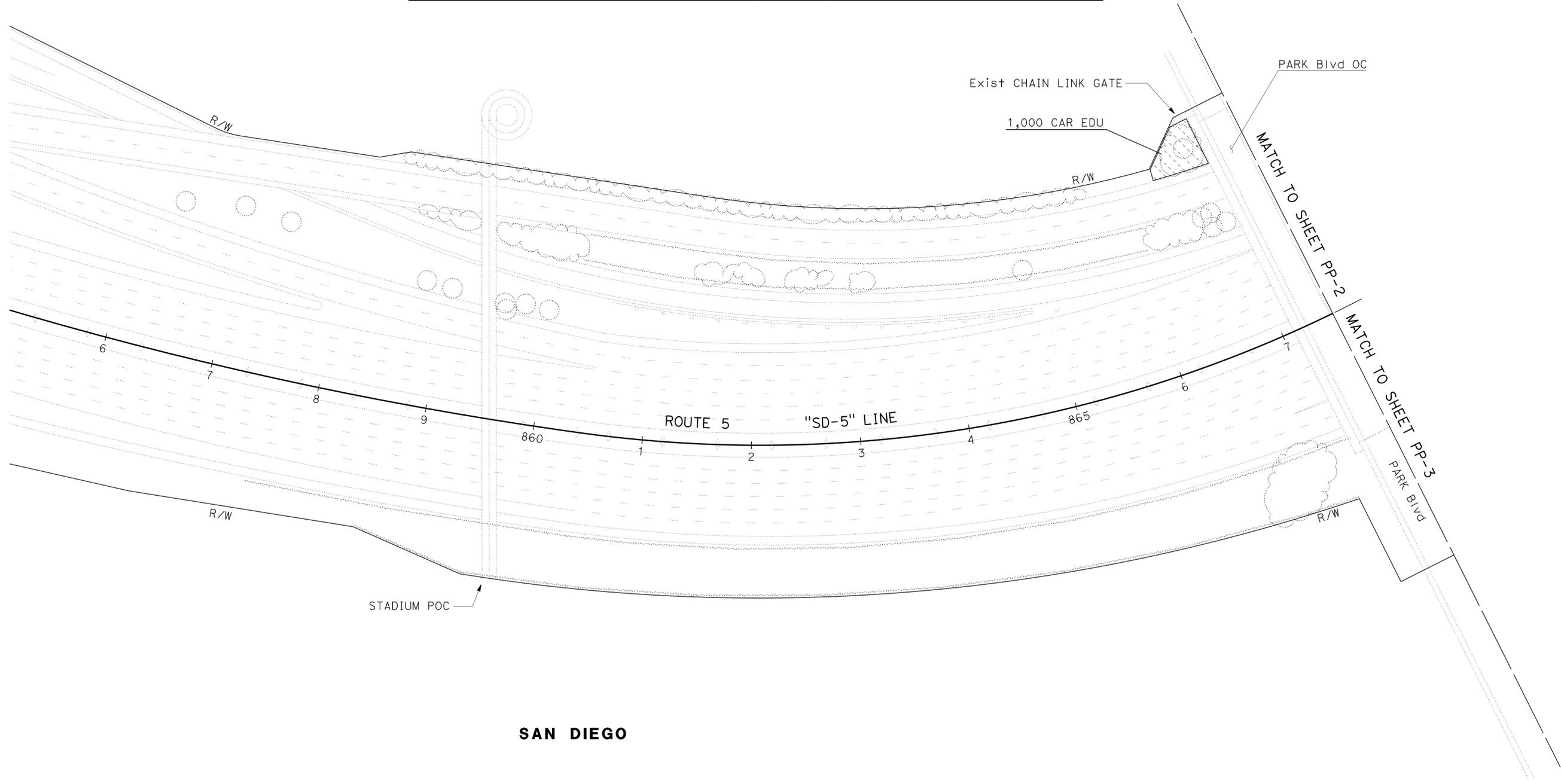
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**APPLICATION AND SEQUENCE OF WORK**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	MEDIUM	270 CY/ACRE	2" D
STEP 2	INCORPORATE MATERIALS	COMPOST			6" D
STEP 3	FIBER ROLLS	8" TO 10" Dia	B		TYPE 1 FIBER ROLL INSTALLATION (SEE SHEET W-3,5)
STEP 4	WEED GERMINATION				
STEP 5	PLANTING				



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** LANDSCAPE ARCHITECTURE  
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ  
 CALCULATED/DESIGNED BY: KENNY MAH  
 CHECKED BY: CATALINA FLORES  
 REVISED BY: KENNY MAH  
 DATE REVISED: CATALINA FLORES



**SAN DIEGO**

APPROVED FOR PLANTING WORK ONLY

**PLANTING PLAN  
PP-1**

SCALE: 1" = 50'

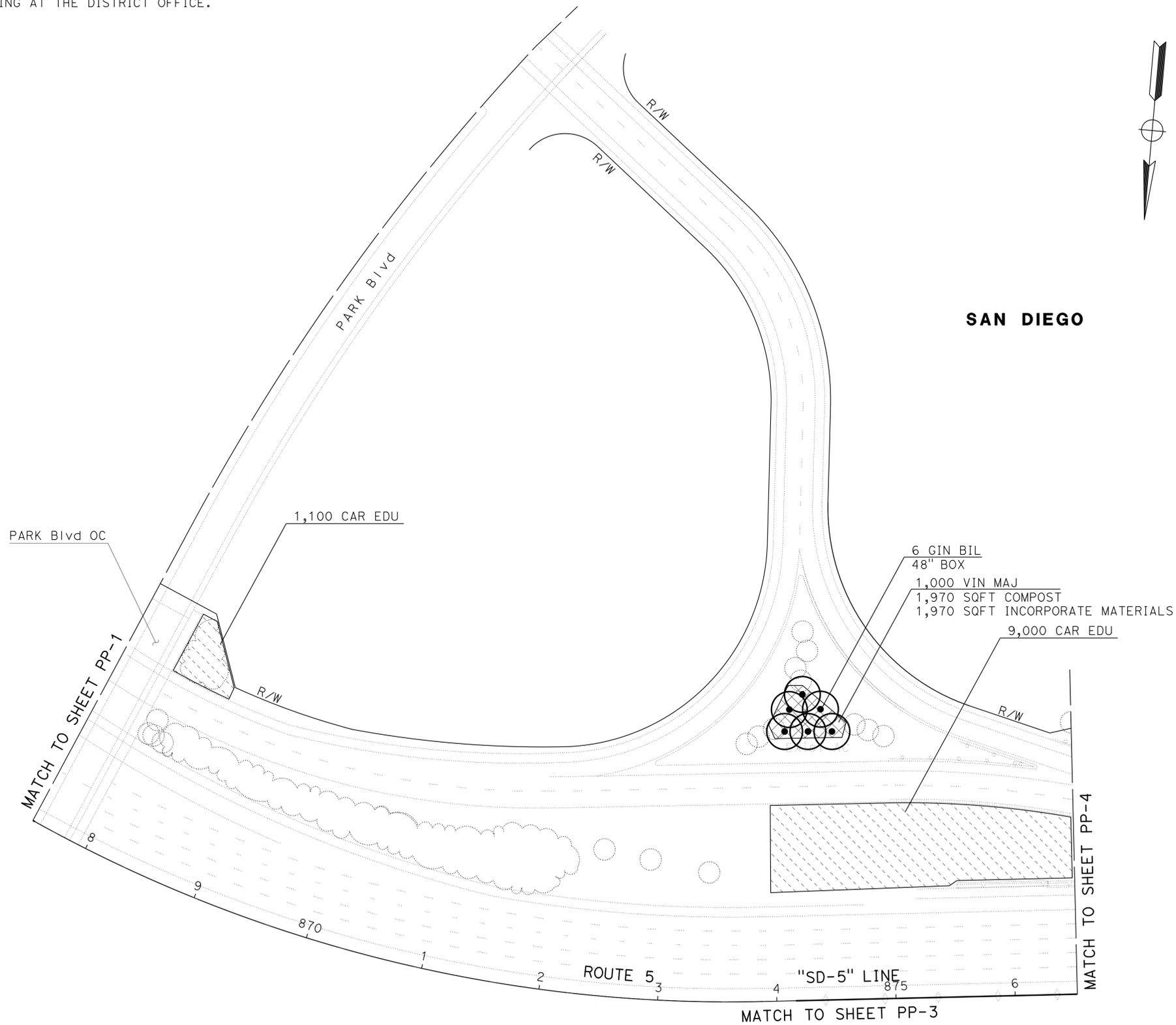
LAST REVISION: 12-06-13 DATE PLOTTED => 09-DEC-2013 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	91	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	KENNY MAH	12-09-13
			CATALINA FLORES	

APPROVED FOR PLANTING WORK ONLY

**PLANTING PLAN**  
**PP-2**  
 SCALE: 1" = 50'

LAST REVISION | DATE PLOTTED => 09-DEC-2013 12-06-13 | TIME PLOTTED => 14:38

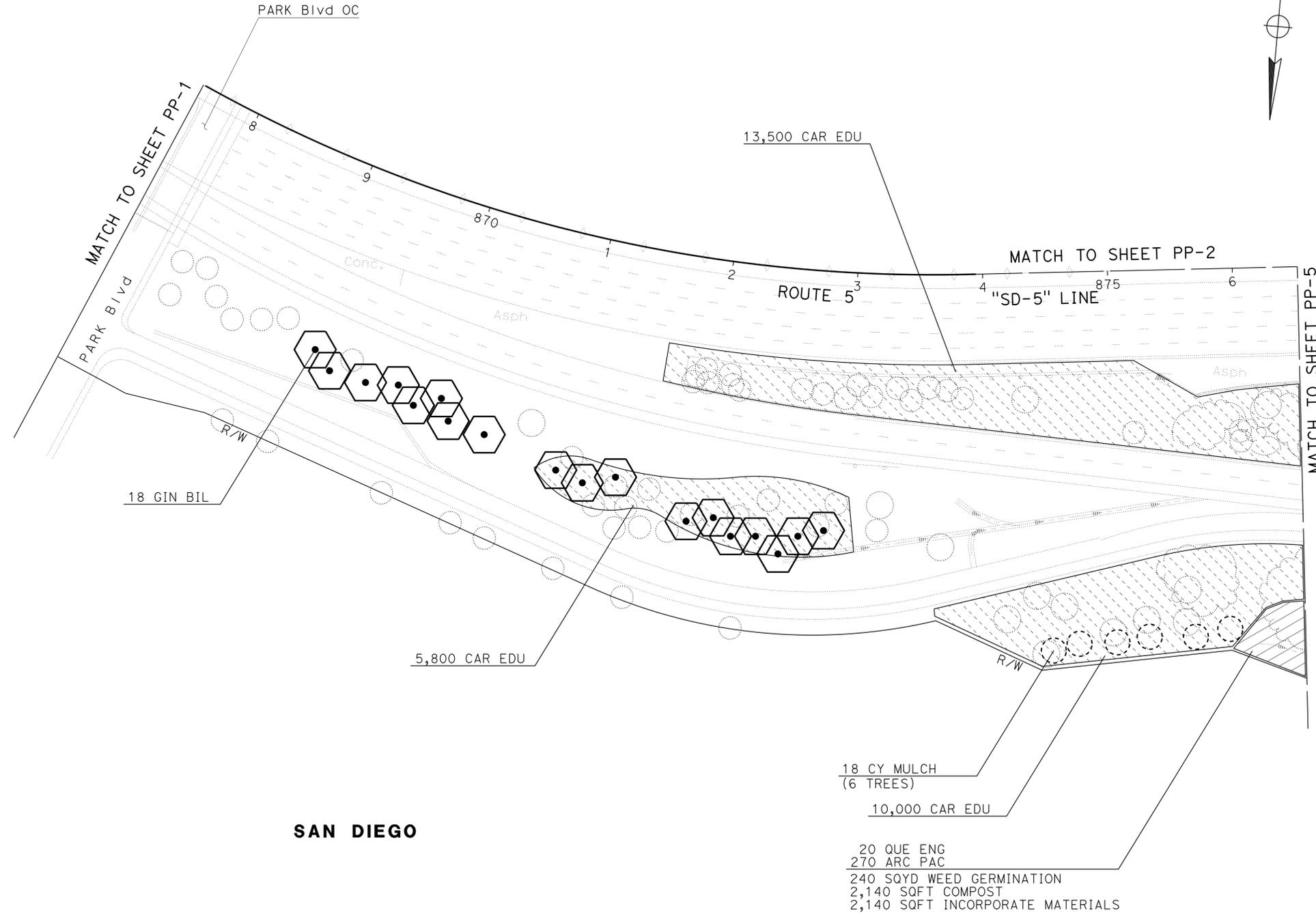
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	92	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 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	KENNY MAH	REVISED BY
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	CATALINA FLORES	DATE REVISED



**SAN DIEGO**

APPROVED FOR PLANTING WORK ONLY

SCALE: 1" = 50'

**PLANTING PLAN  
PP-3**

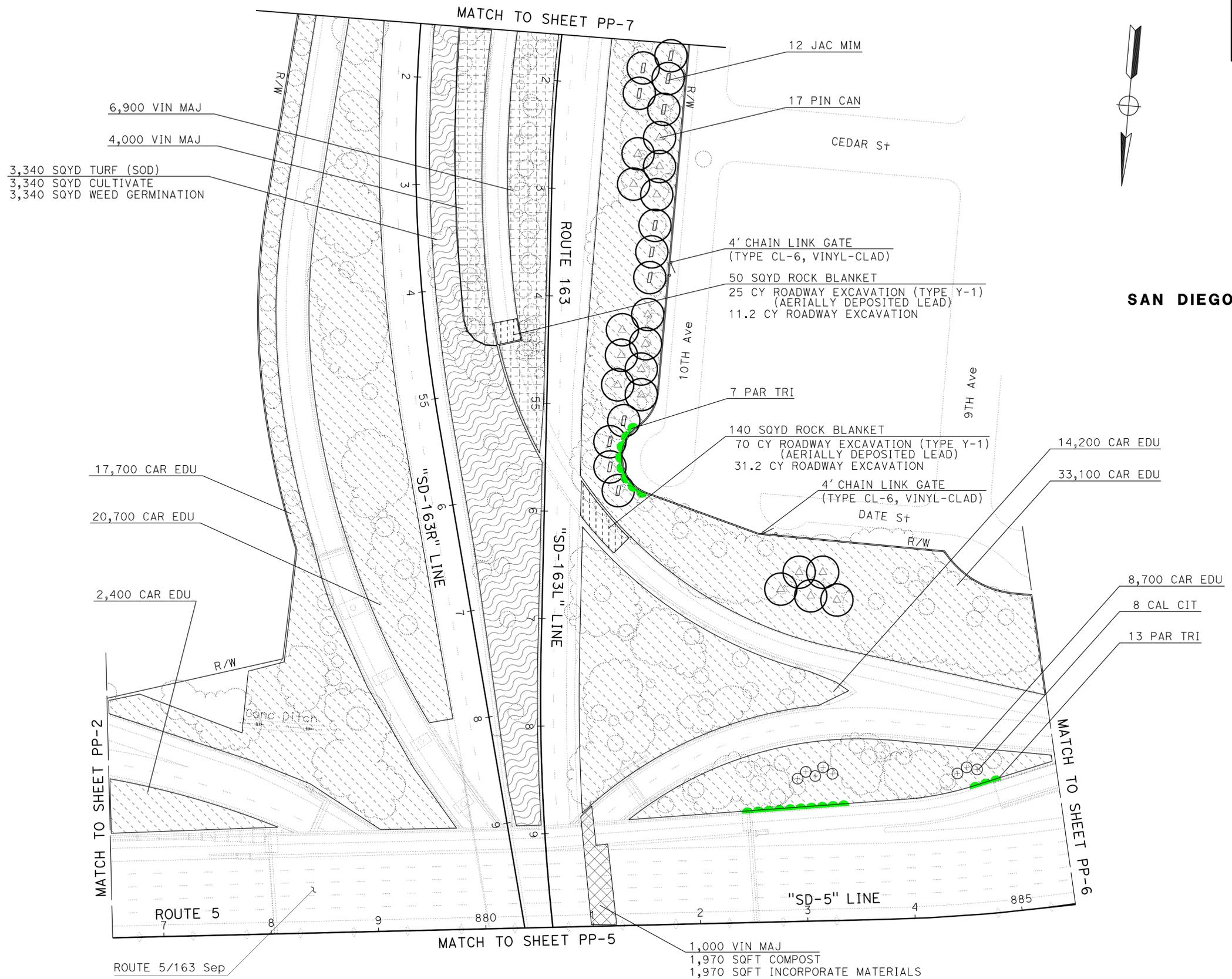
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	93	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE

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**NOTE:**

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



**SAN DIEGO**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
Kenny Mah	Catalina Flores
Revised By	Date Revised
Calculated/Designed By	Checked By
Senior Landscape Architect	Stephen Alvarez

APPROVED FOR PLANTING WORK ONLY

SCALE: 1" = 50'

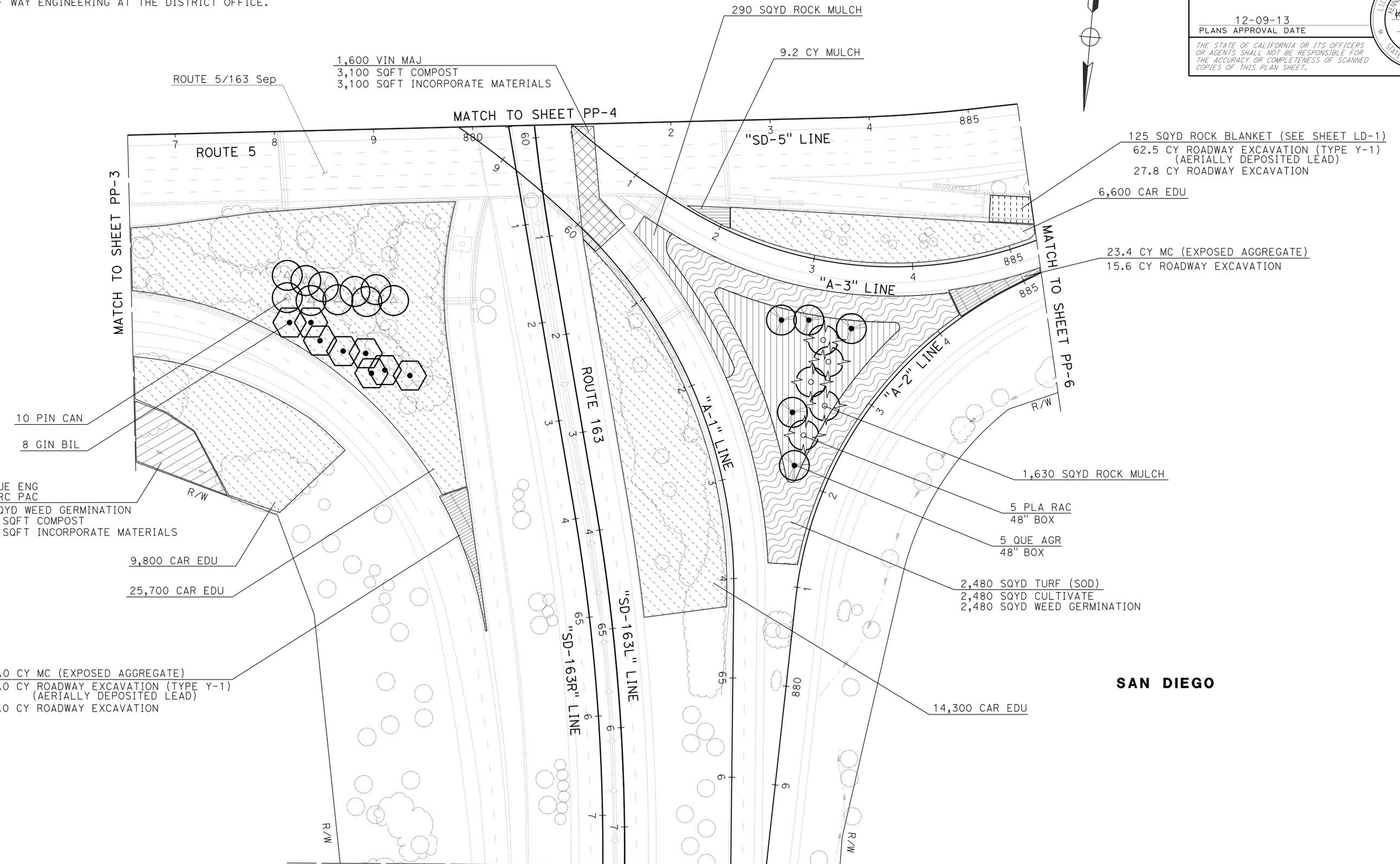
**PLANTING PLAN  
PP-4**

LAST REVISION | DATE PLOTTED => 09-DEC-2013  
 12-06-13 | TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	94	119

KENNETH L. MAH  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
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**SAN DIEGO**

MATCH TO SHEET PP-8

APPROVED FOR PLANTING WORK ONLY

SCALE: 1" = 50'

**PLANTING PLAN  
 PP-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED-DESIGNED BY	CHECKED BY
KENNY MAH	CATALINA FLORES
REVISED BY	DATE REVISED

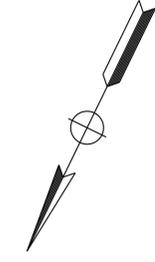
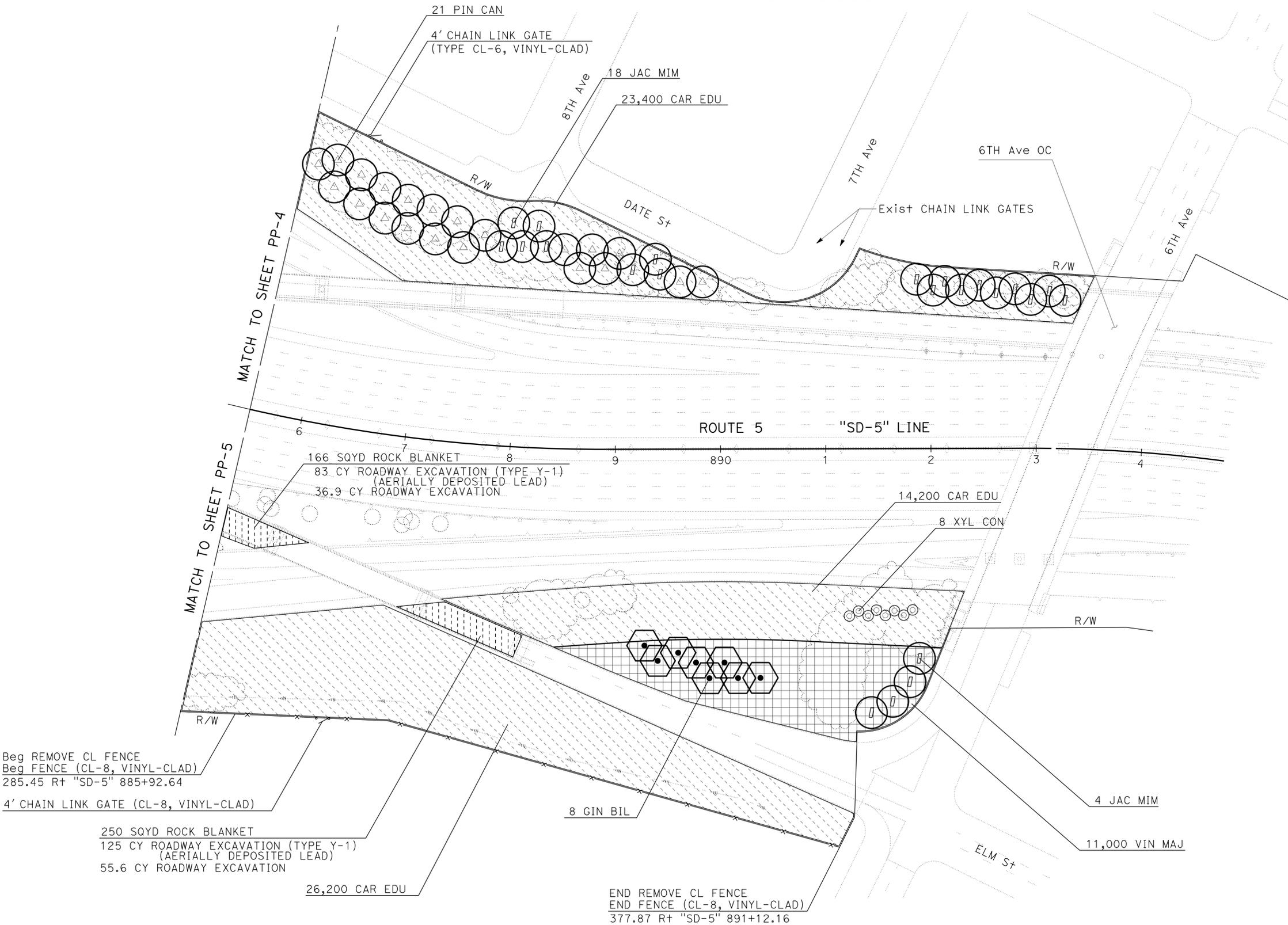
LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	95	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
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**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	DATE
		KENNY MAH	REVISOR
		CATALINA FLORES	DATE

APPROVED FOR PLANTING WORK ONLY

**PLANTING PLAN**  
**PP-6**  
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38





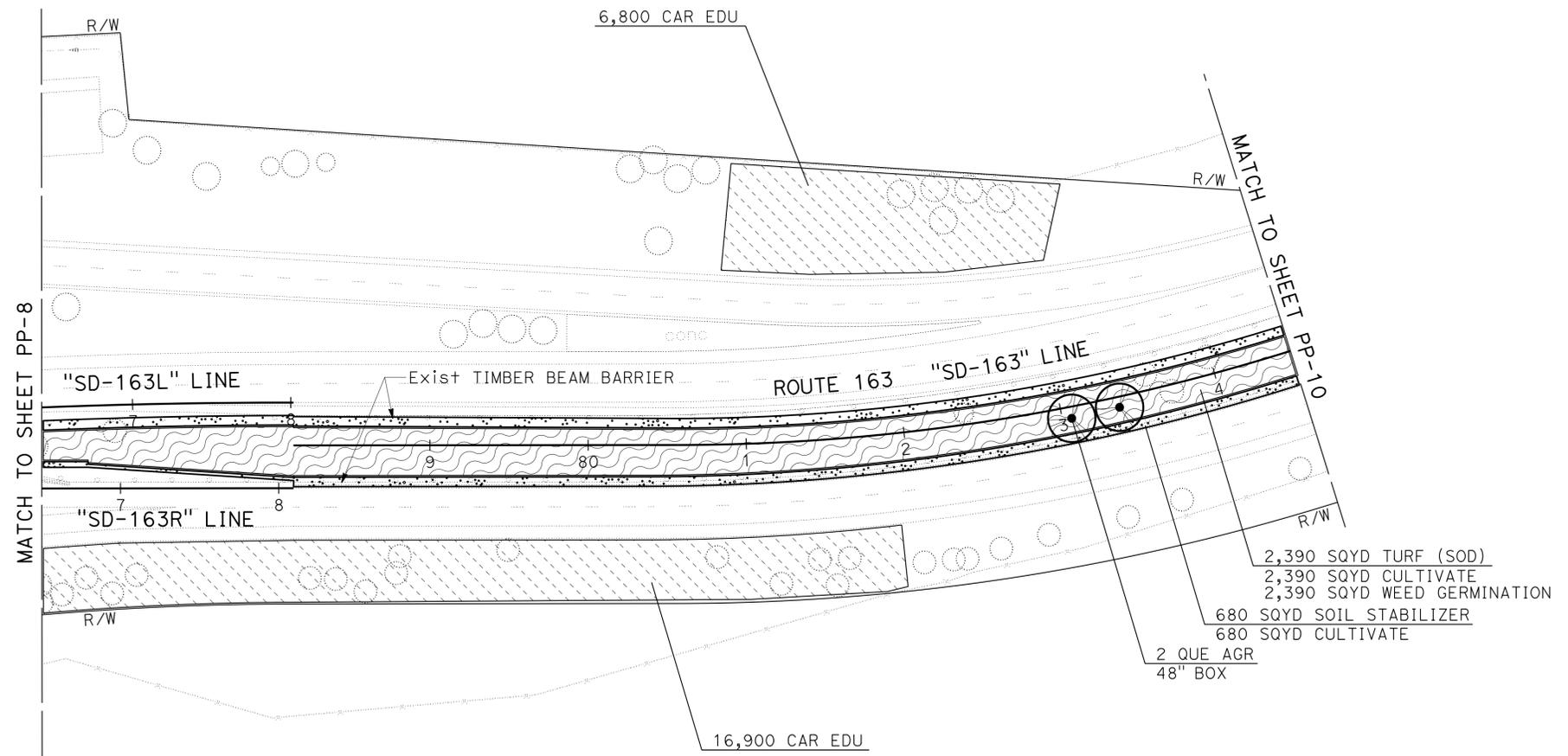
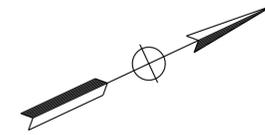
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	98	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
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**NOTES:**

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.

**SAN DIEGO**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>	STEPHEN ALVAREZ	KENNY MAH	CATALINA FLORES		

APPROVED FOR PLANTING WORK ONLY

**PLANTING PLAN**  
**PP-9**

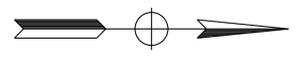
SCALE: 1" = 50'



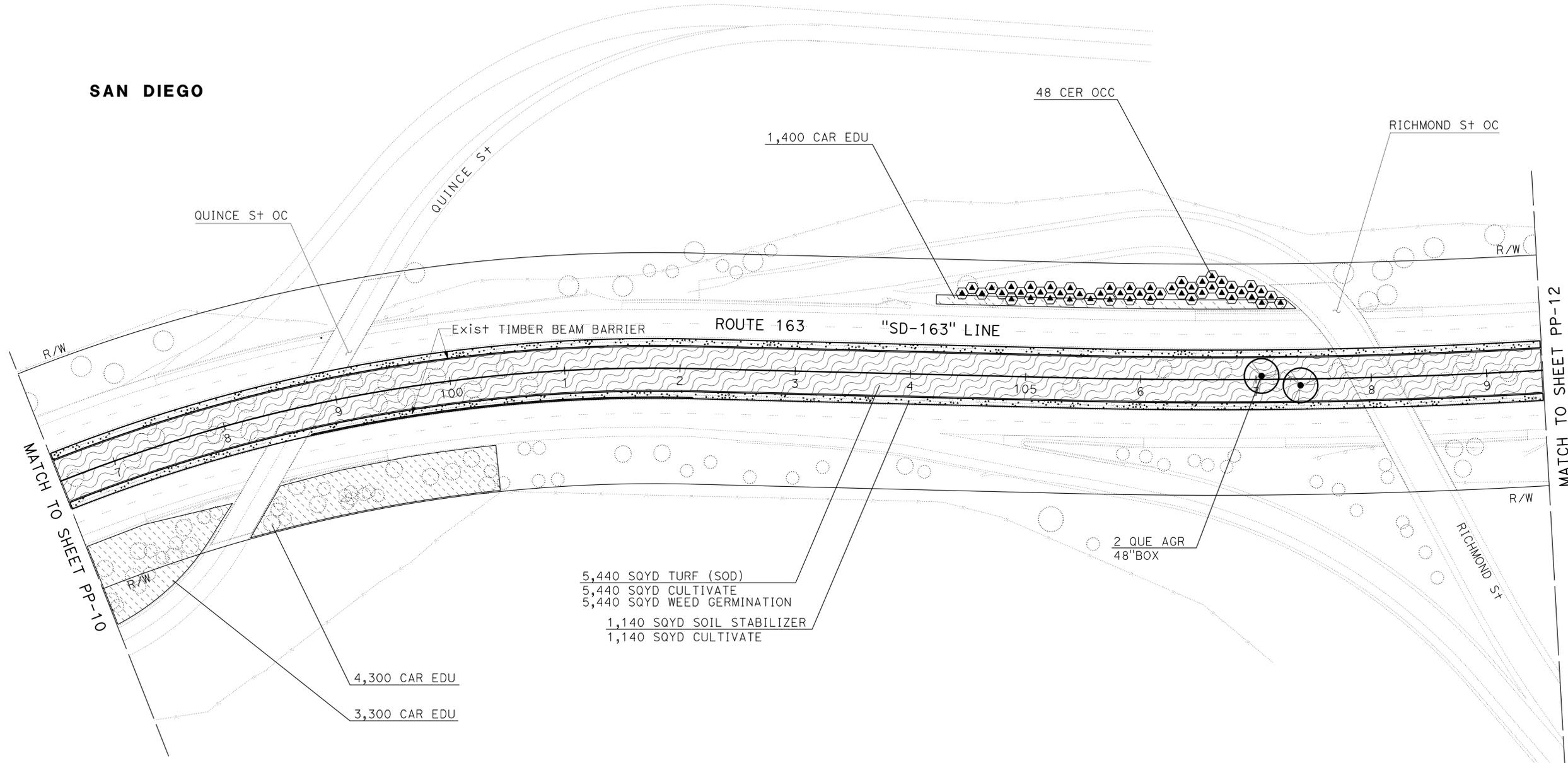
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,163	R15.7/R16.3, 0.5/3.2	100	119

*Kenneth L. Mah*  
 LICENSED LANDSCAPE ARCHITECT  
 12-09-13  
 PLANS APPROVAL DATE  
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- NOTES:**
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  - TIMBER BEAM BARRIER OPENING AT Approx Rt "SD-163L" 76+00.



**SAN DIEGO**



- 5,440 SQYD TURF (SOD)
- 5,440 SQYD CULTIVATE
- 5,440 SQYD WEED GERMINATION
- 1,140 SQYD SOIL STABILIZER
- 1,140 SQYD CULTIVATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
<b>Caltrans</b> LANDSCAPE ARCHITECTURE	KENNY MAH	12-09-13
SENIOR LANDSCAPE ARCHITECT	CATALINA FLORES	
DESIGNED BY	CHECKED BY	
STEPHEN ALVAREZ		

APPROVED FOR PLANTING WORK ONLY

**PLANTING PLAN**  
**PP-11**  
SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 09-DEC-2013 12-06-13 TIME PLOTTED => 14:38