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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 ACNHPI-X001(592)  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN ALAMEDA COUNTY**  
**AT**  
**VARIOUS LOCATIONS**

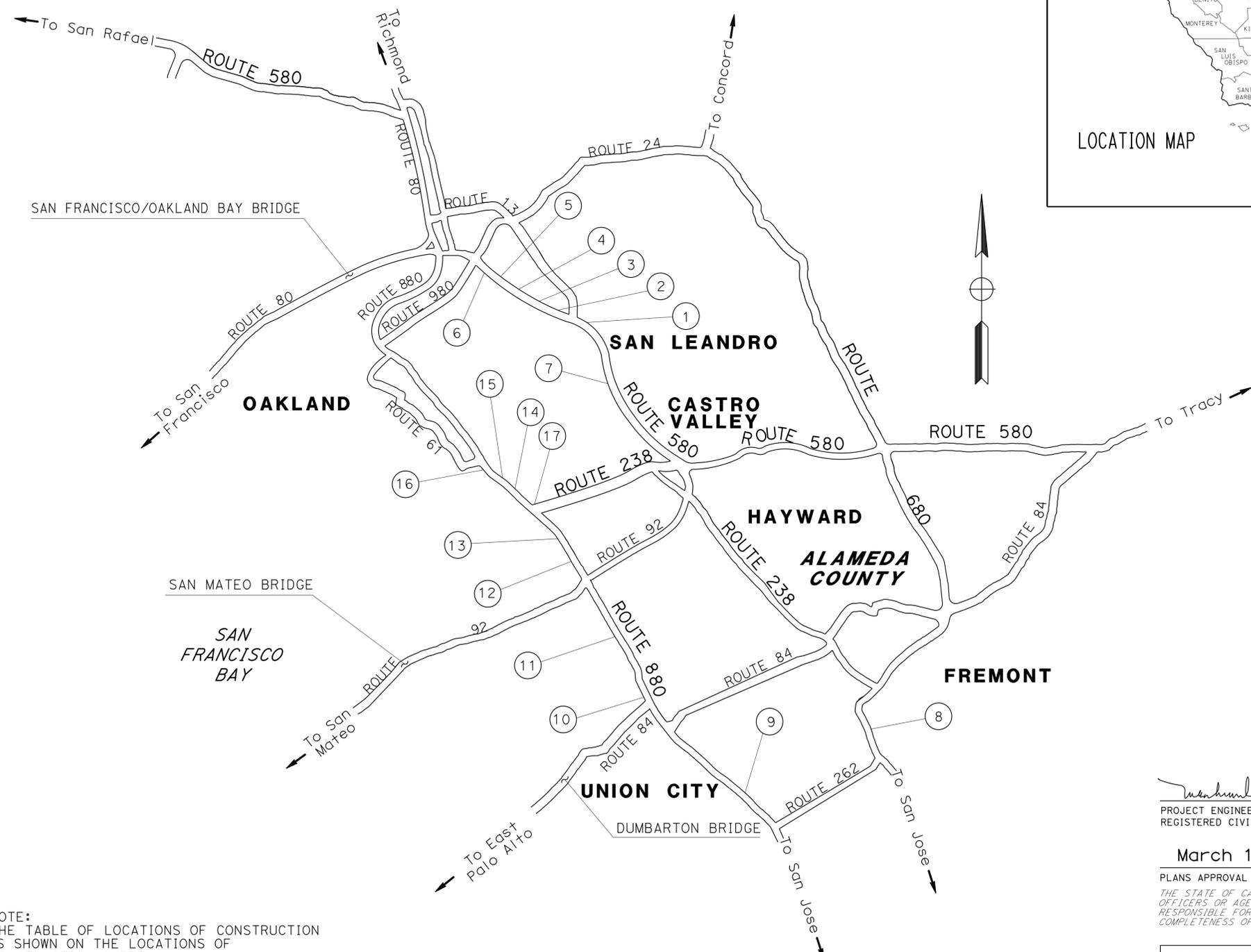
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	1	63





LOCATION MAP



PROJECT MANAGER  
**JULIE CAMPERO**  
 DESIGN MANAGER  
**LAWRENCE A JONES**

NOTE:  
 THE TABLE OF LOCATIONS OF CONSTRUCTION IS SHOWN ON THE LOCATIONS OF CONSTRUCTION SHEET.

NO SCALE

 1/30/15  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**March 16, 2015**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	<b>04-3G7104</b>
PROJECT ID	<b>0412000156</b>

DATE PLOTTED => 01-APR-2015  
 TIME PLOTTED => 14:34  
 LAST REVISION 02-19-15

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

FUNCTIONAL SUPERVISOR  
 TAM LY

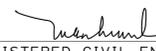
CALCULATED-DESIGNED BY  
 CHECKED BY

REYES BELTRAN  
 TUAN HUYNH

REVISED BY  
 DATE REVISED

RB  
 2/19/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	2	63

 1/30/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL  
 STATE OF CALIFORNIA

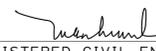
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### LOCATIONS OF CONSTRUCTION

LOCATION	ROUTE	PM	DIRECTION	DESCRIPTION
①	580	39.90	WB	SEMINARY Ave OFF-RAMP
②	580	39.96	WB	MacARTHUR Blvd ON-RAMP
③	580	41.01	WB	COOLIDGE Ave OFF-RAMP
④	580	43.74	WB	GRAND Ave OFF-RAMP
⑤	580	43.87	WB	GRAND Ave AND SANTA CLARA Ave ON-RAMP
⑥	580	44.79	EB	BROADWAY AND WEBSTER STREET OFF-RAMP
⑦	580	35.00	EB	FOOTHILL Blvd AND MacARTHUR Blvd ON/OFF-RAMP
⑧	680	3.35	NB	GRIMMER Blvd OFF-RAMP
⑨	880	3.07	NB	FREMONT Blvd ON/OFF-RAMP
⑩	880	10.44	NB/SB	DECOTO Rd ON/OFF-RAMP
⑪	880	14.72	SB	INDUSTRIAL Pkwy OFF-RAMP
⑫	880	18.25	SB	A STREET ON/OFF-RAMP
⑬	880	19.96	SB	GRANT Ave AND HESPERIAN Blvd ON-RAMP
⑭	880	20.42	NB	LEWELLING Blvd ON-RAMP
⑮	880	25.38	NB	HEGENBERGER Rd ON/OFF-RAMP
⑯	880	26.84	NB/SB	66TH Ave ON/OFF-RAMP
⑰	238	16.68	WB/NB	ROUTE 238 WB TO ROUTE 880 NB ON-RAMP

## LOCATIONS OF CONSTRUCTION

**LC-1**

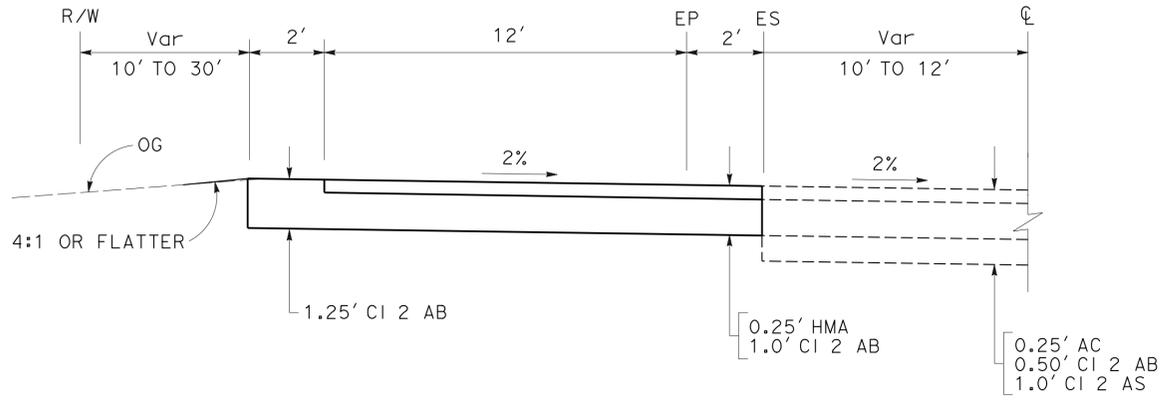
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	3	63
			1/30/15	DATE	
REGISTERED CIVIL ENGINEER			No. 63928		
PLANS APPROVAL DATE			Exp. 9-30-16		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTE:**

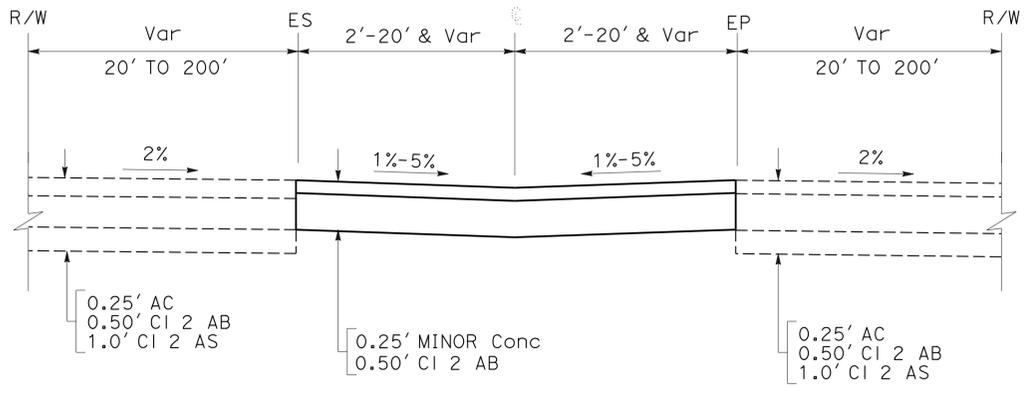
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

**ABBREVIATION:**

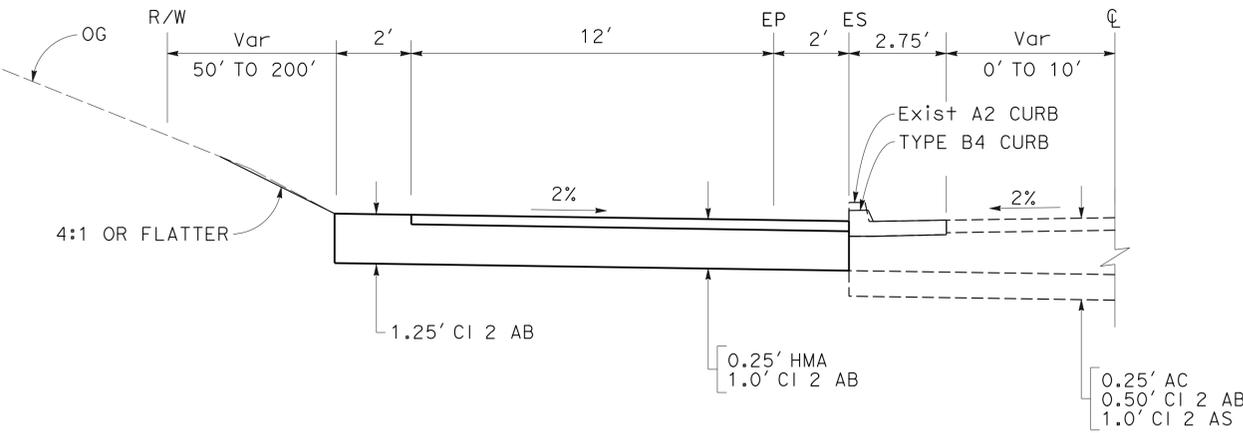
& AND



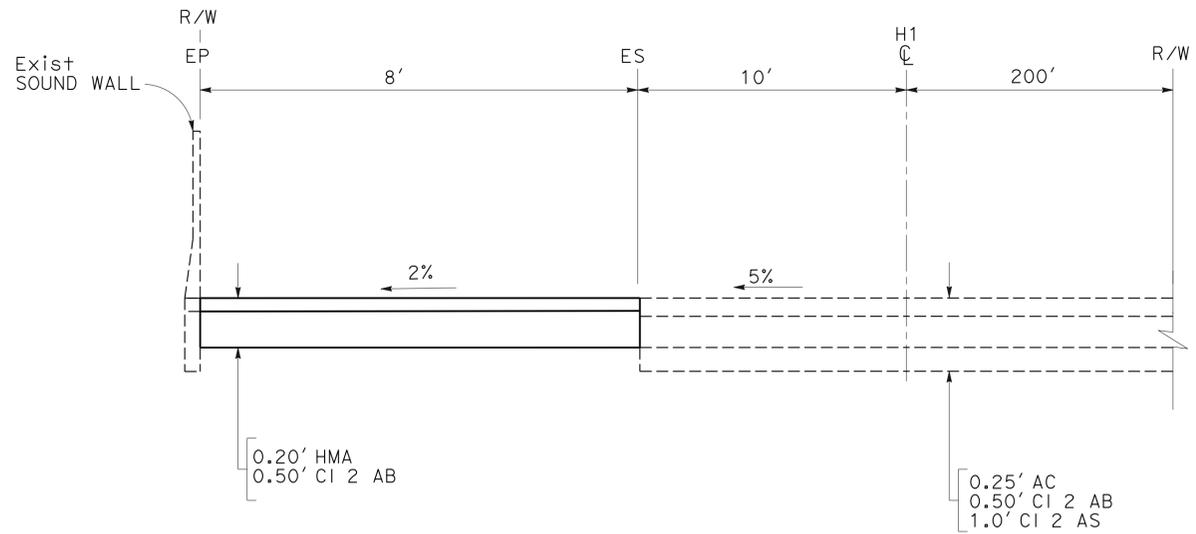
**MAINTENANCE VEHICLE PULLOUT  
LOCATION 1 & 2**



**GORE MINOR CONCRETE PAVING  
LOCATION 7 & 9 TO 17**



**MAINTENANCE VEHICLE PULLOUT  
LOCATION 3 TO 6**



**GORE HMA PAVING  
LOCATION 8**

**TYPICAL CROSS SECTIONS  
NO SCALE**

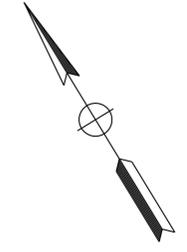
**X-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 CHECKED BY: TUAN HUYNH  
 REVISOR: REYES BELTRAN  
 DATE REVISED: 2/19/15  
 RB

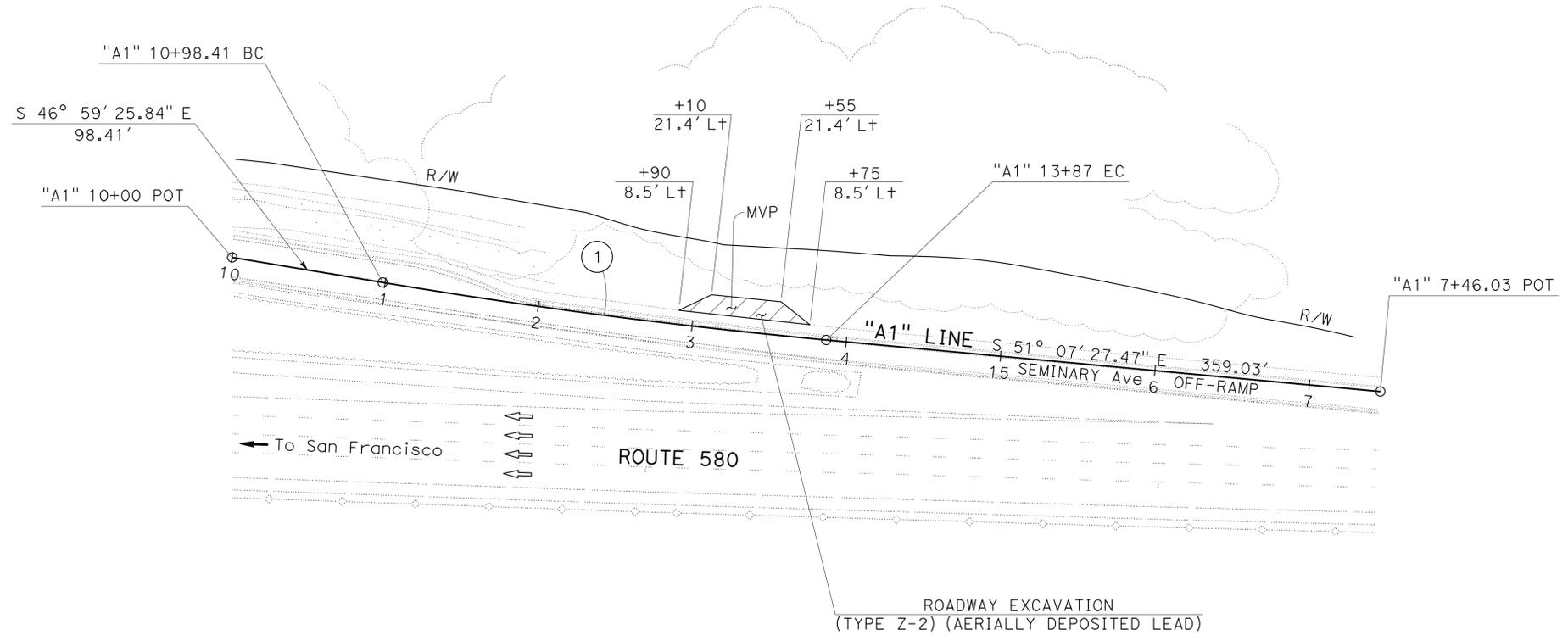
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 CHECKED BY: TUAN HUYNH  
 REVISOR: REYES BELTRAN  
 DATE: 2/19/15  
 RB

**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
04	Ala	238, 580, 680, 880	Var	4	63
			REGISTERED CIVIL ENGINEER	DATE	
			Tuan P. Huynh	1/30/15	
			No. 63928		
			Exp. 9-30-16		
			CIVIL		
<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>					



**O A K L A N D**



**LEGEND:**

	HOT MIX ASPHALT (TYPE A)
	MINOR CONCRETE (TEXTURED PAVING)

**CURVE DATA**

No. ⊕	R	Δ	T	L
1	4000'	04° 08' 02"	144.36'	288.59'

**LAYOUT  
 LOCATION No. 1**  
 SCALE: 1" = 50'

**L-1**

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 02-19-15 | TIME PLOTTED => 14:34

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

FUNCTIONAL SUPERVISOR: TAM LY  
 CALCULATED/DESIGNED BY: REYES BELTRAN  
 CHECKED BY: TUAN HUYNH  
 REVISED BY: RB  
 DATE REVISED: 2/19/15

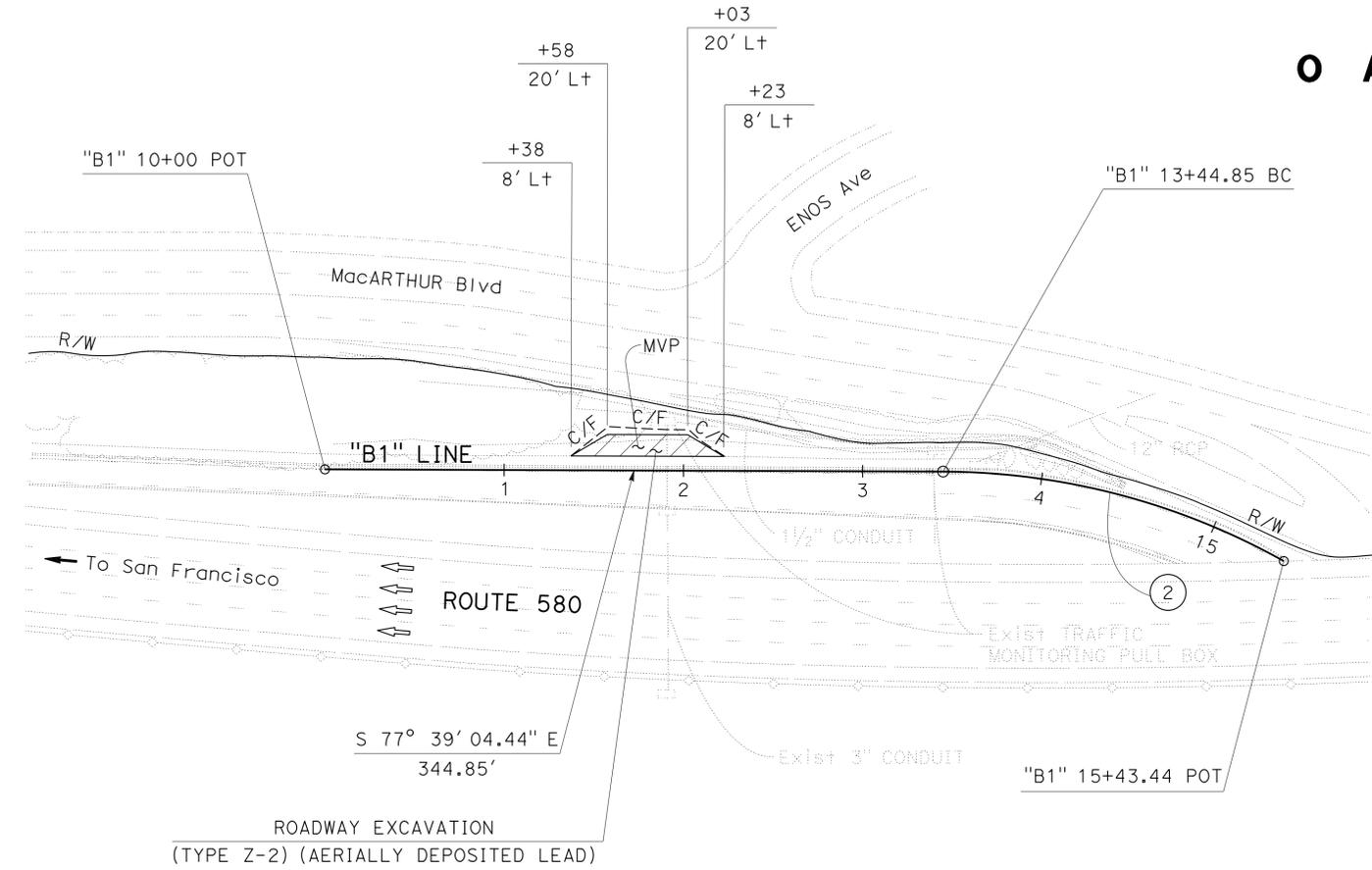
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	5	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

DATE: 1/30/15  
 PLANS APPROVAL DATE: 3-16-15

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O A K L A N D

**CURVE DATA**

No. ⊕	R	Δ	T	L
2	392.87'	28° 57' 45"	101.46'	198.59'

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

**LAYOUT  
 LOCATION No. 2**  
 SCALE: 1" = 50'

**L-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 CHECKED BY: TUAN HUYNH  
 REVISOR: REYES BELTRAN  
 DATE: 2/19/15

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

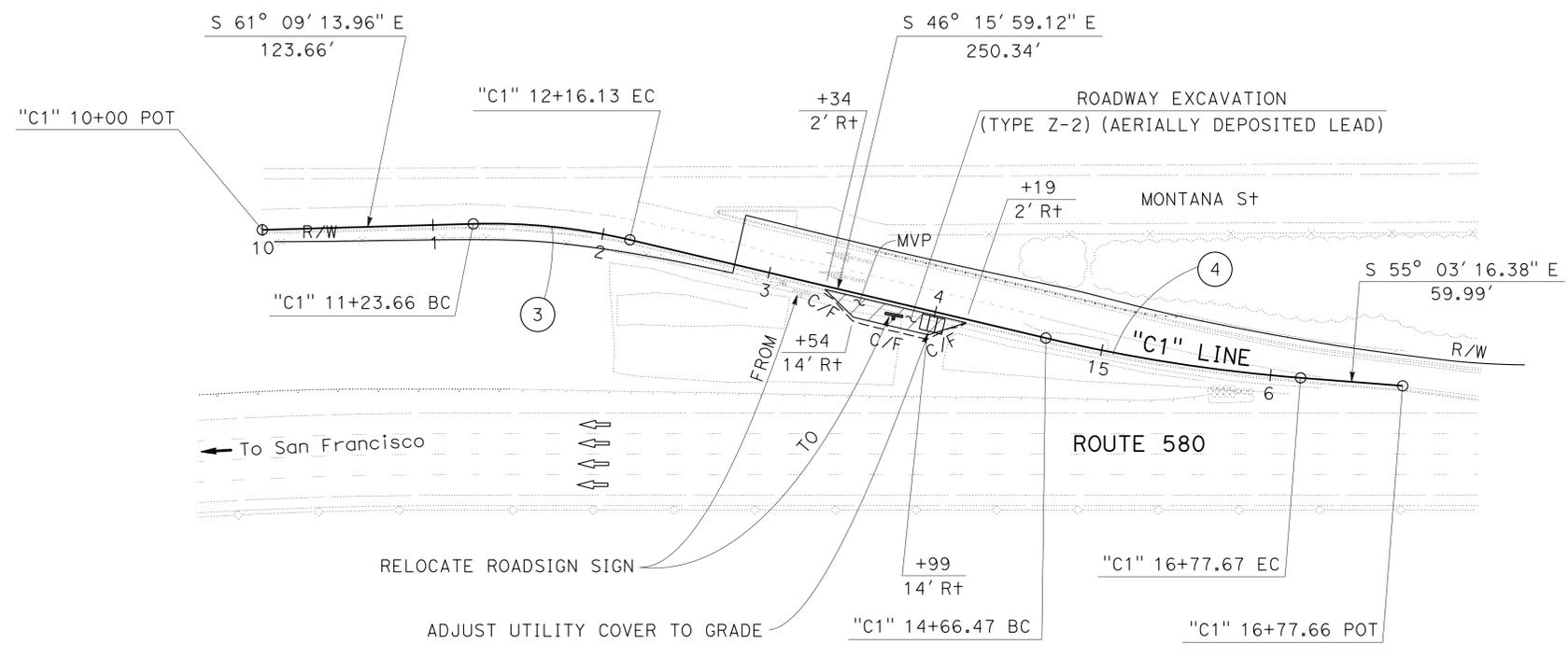
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	6	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

DATE: 1/30/15  
 PLANS APPROVAL DATE: 3-16-15

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**O A K L A N D**



**CURVE DATA**

No. ⊕	R	Δ	T	L
3	355.89'	14° 53' 15"	46.5'	92.47'
4	985.74'	08° 47' 17"	75.75'	151.19'

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

**LAYOUT  
 LOCATION No. 3**  
 SCALE: 1" = 50'

**L-3**

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

FUNCTIONAL SUPERVISOR: TAM LY  
 CHECKED BY: TUAN HUYNH  
 REVISOR: REYES BELTRAN  
 DATE: 2/19/15  
 RB

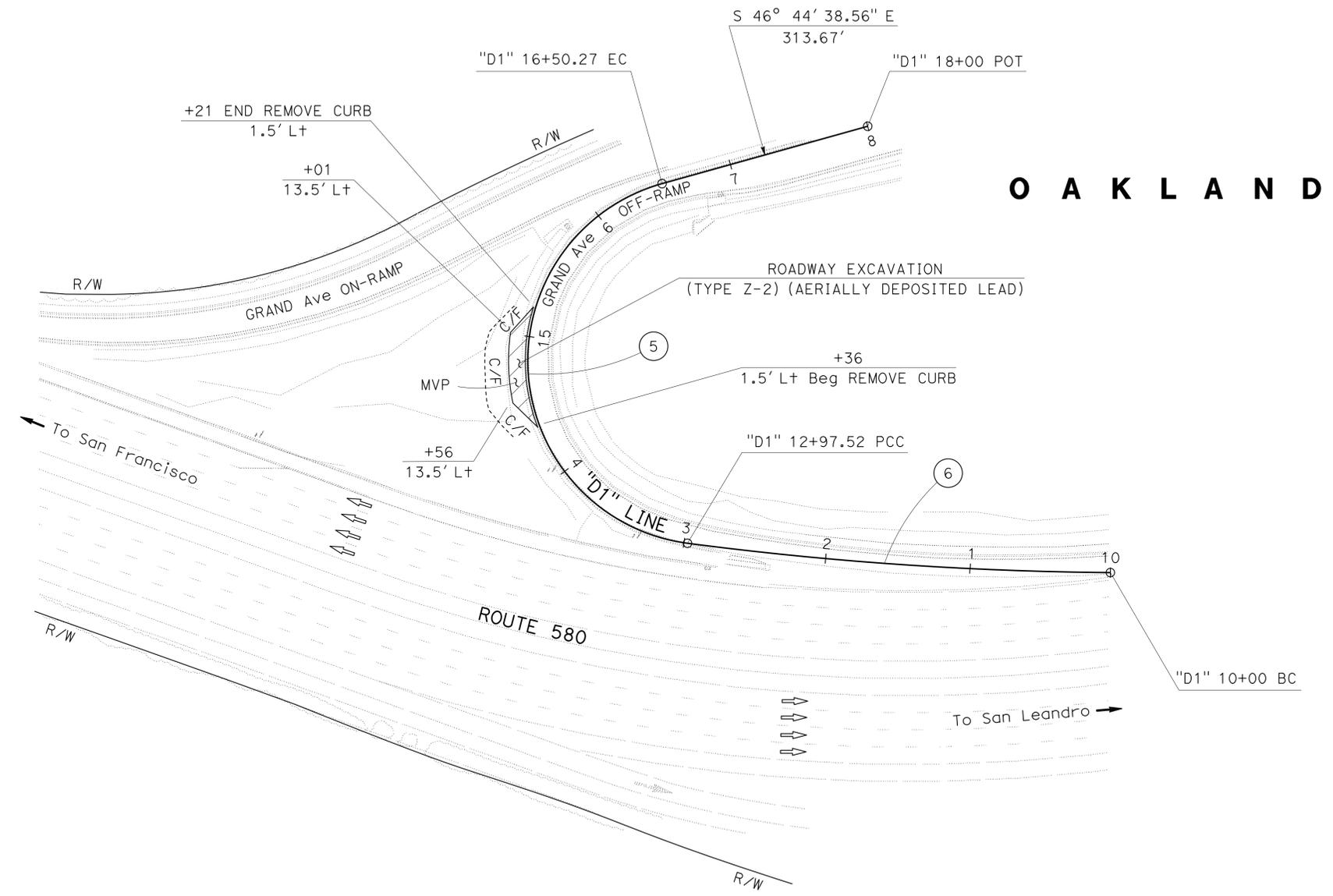
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	7	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

DATE: 1/30/15  
 3-16-15  
 PLANS APPROVAL DATE

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**CURVE DATA**

No. Ⓢ	R	Δ	T	L
5	128.74'	156° 59' 40"	632.61'	352.75'
6	2439.37'	06° 59' 17"	148.94'	297.52'

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

**LAYOUT**  
**LOCATION No. 4**  
 SCALE: 1" = 50'

**L-4**

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

FUNCTIONAL SUPERVISOR: TAM LY  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 REYES BELTRAN  
 TUAN HUYNH  
 REVISED BY: [blank]  
 DATE REVISED: [blank]  
 RB  
 2/19/15

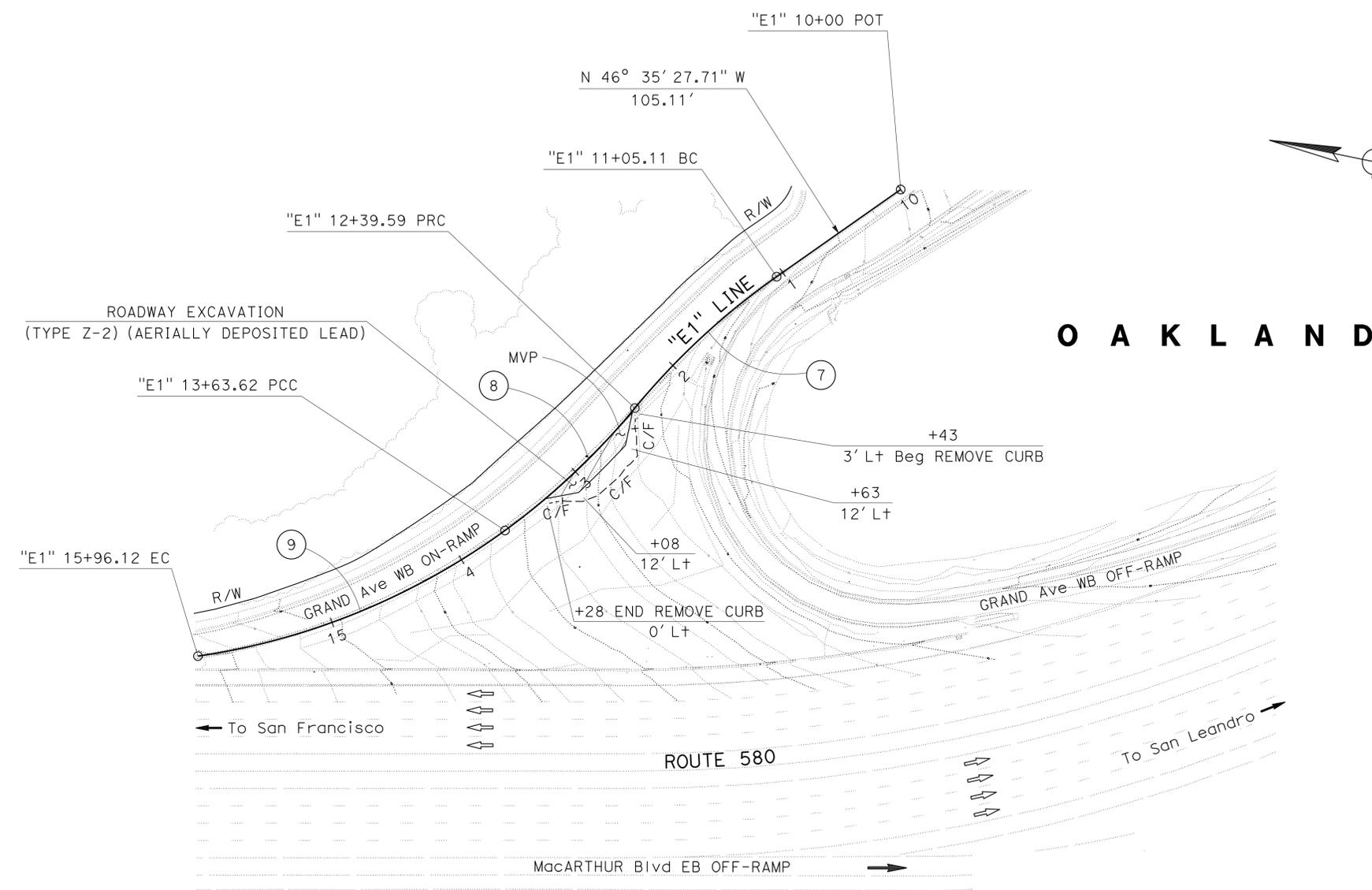
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	8	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

DATE: 1/30/15  
 3-16-15  
 PLANS APPROVAL DATE

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



**CURVE DATA**

No. Ⓣ	R	Δ	T	L
7	500.28'	15° 24' 05"	67.65'	134.48'
8	492.87'	14° 25' 06"	62.34'	124.03'
9	482.05'	27° 38' 07"	118.56'	232.51'

**LAYOUT**  
**LOCATION No. 5**  
 SCALE: 1" = 50'

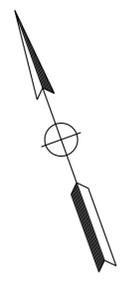
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

**L-5**

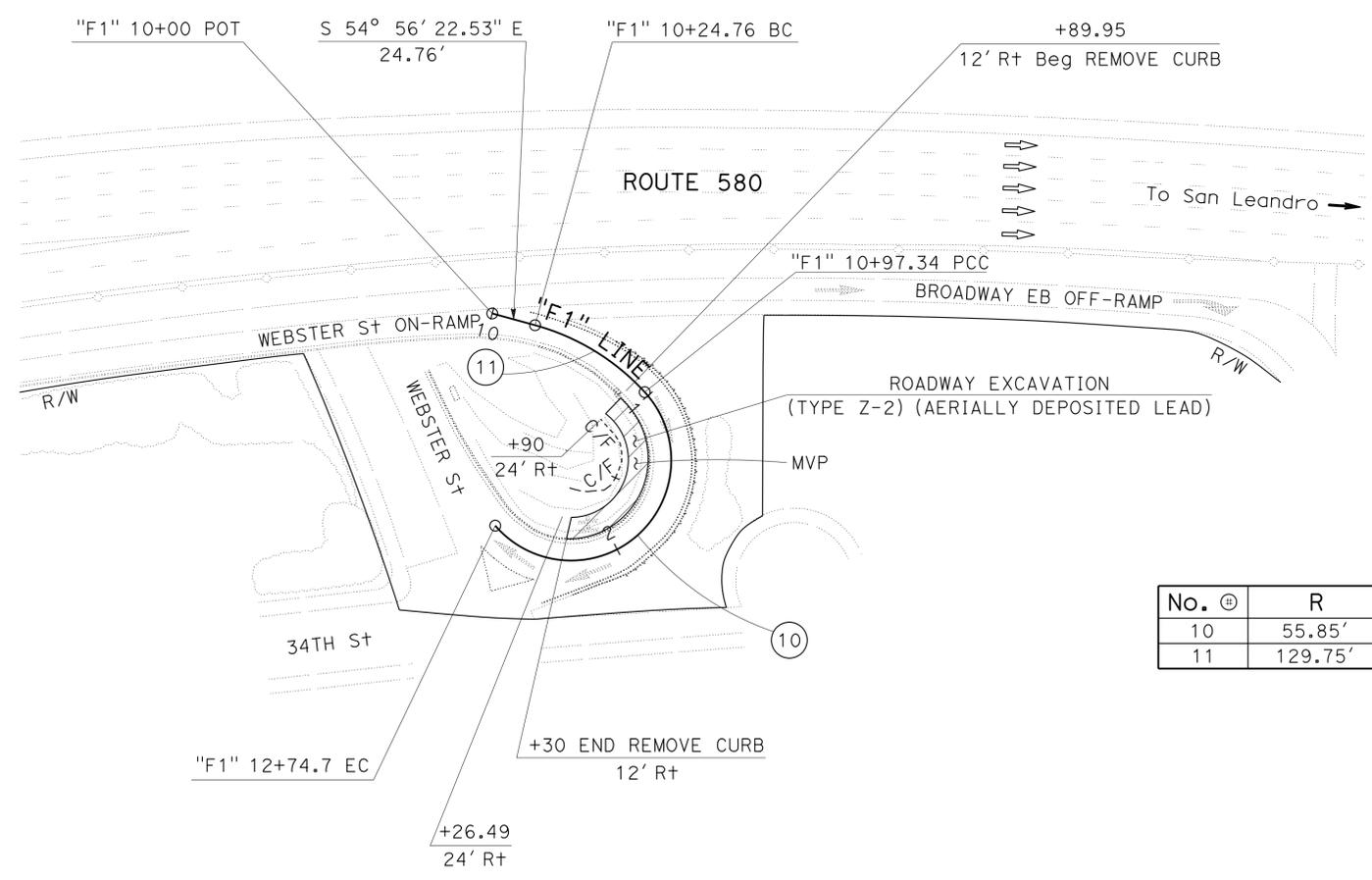
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

FUNCTIONAL SUPERVISOR	TAM LY
DESIGNED BY	REYES BELTRAN
CHECKED BY	TUAN HUYNH
REVISIONS	RB 2/19/15

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



**O A K L A N D**



**CURVE DATA**

No. ⊕	R	Δ	T	L
10	55.85'	181° 57' 46"	3260.21'	177.36'
11	129.75'	32° 03' 07"	37.27'	72.58'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	9	63
			1/30/15	DATE	
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					

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

**LAYOUT  
 LOCATION No. 6**  
 SCALE: 1" = 50'

**L - 6**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 CHECKED BY: TUAN HUYNH  
 REVISOR: REYES BELTRAN  
 DATE: 2/19/15  
 RB

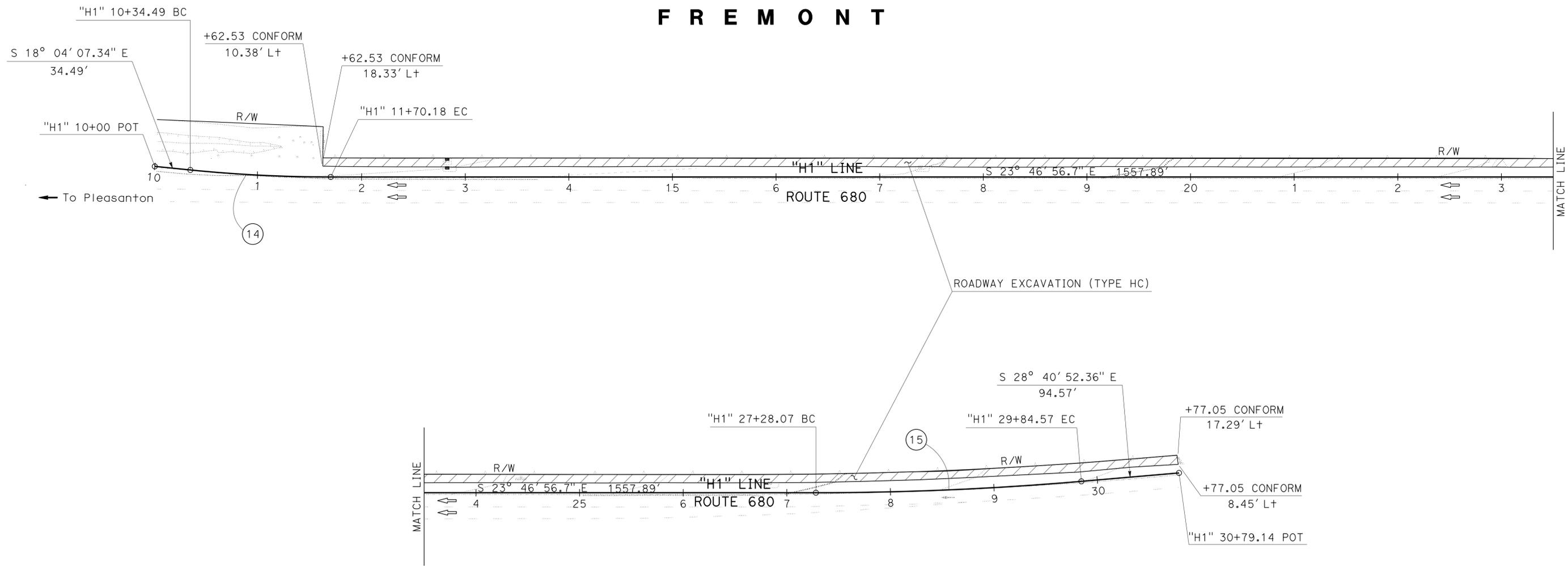
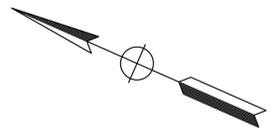
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	11	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

DATE: 1/30/15  
 PLANS APPROVAL DATE: 3-16-15

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**CURVE DATA**

No. Ⓢ	R	Δ	T	L
14	1360'	05° 43' 00"	67.9'	135.69'
15	3000'	04° 53' 56"	128.33'	256.5'

**F R E M O N T**

**LAYOUT  
 LOCATION No. 8**  
 SCALE: 1" = 50'

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

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 02-19-15 TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 REYES BELTRAN  
 TUAN HUYNH  
 RB  
 2/19/15

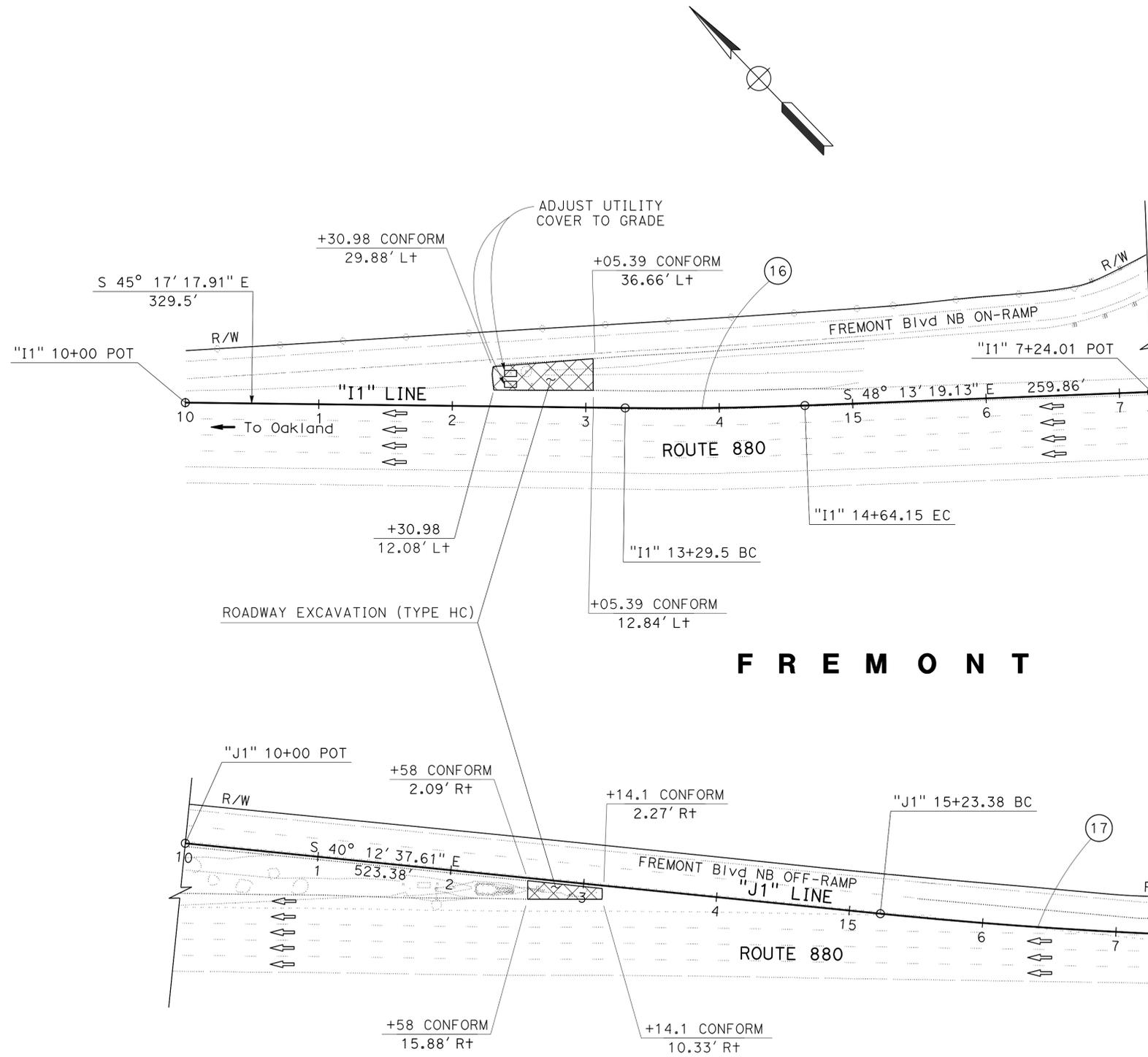
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	12	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

1/30/15  
 DATE  
 3-16-15  
 PLANS APPROVAL DATE

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



**CURVE DATA**

No. Ⓣ	R	Δ	T	L
16	2629.65'	02° 56' 01"	67.34'	134.64'
17	3714.23'	03° 39' 08"	118.41'	236.75'

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

**LAYOUT**  
**LOCATION No. 9**  
 SCALE: 1" = 50'

**L-9**

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

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

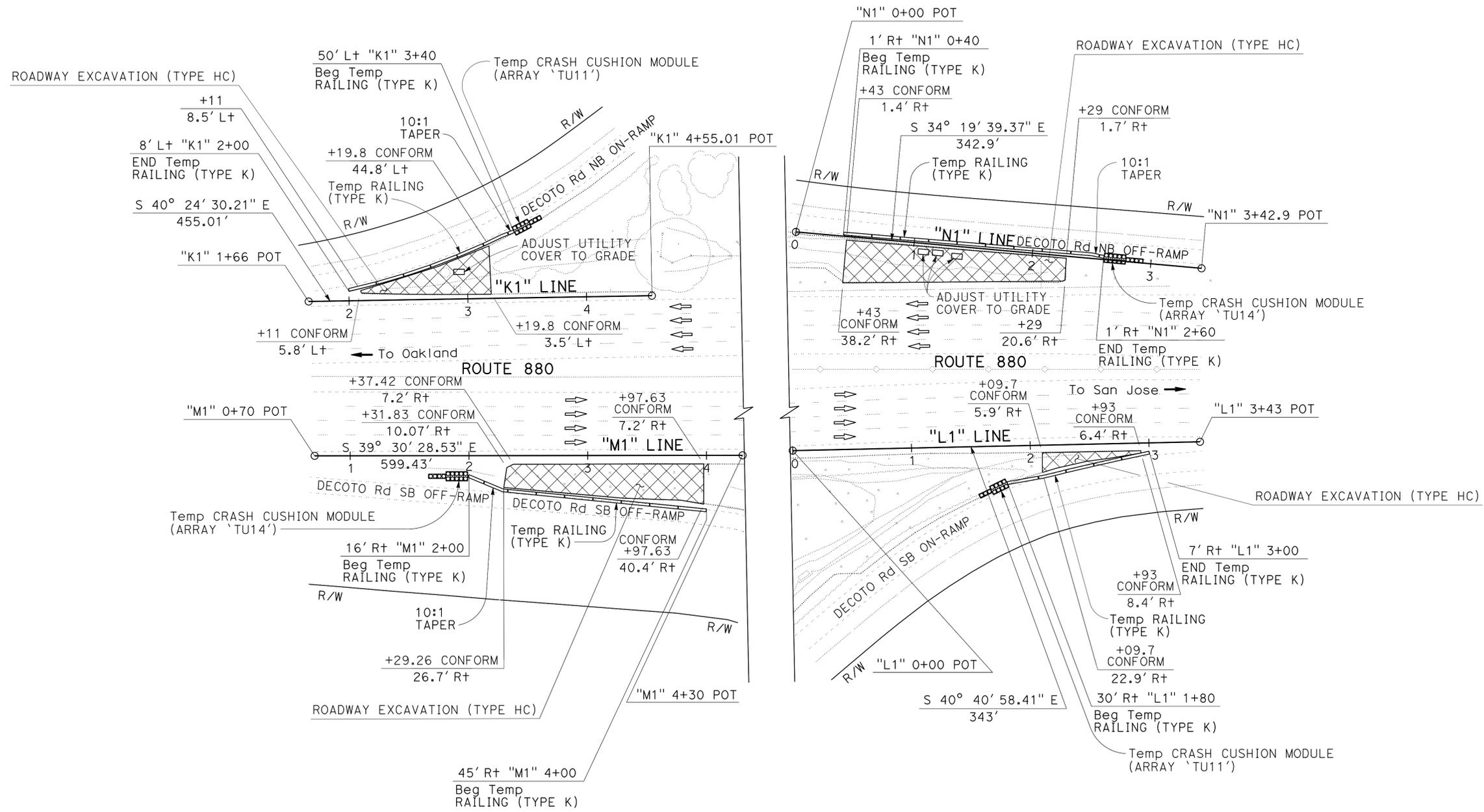
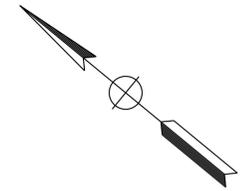
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	13	63

REGISTERED CIVIL ENGINEER  
 1/30/15  
 DATE  
 3-16-15  
 PLANS APPROVAL DATE

Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

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**U N I O N   C I T Y**



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

**LAYOUT**  
**LOCATION No. 10**  
 SCALE: 1" = 50'

**L-10**

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 02-19-15 | TIME PLOTTED => 14:35

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

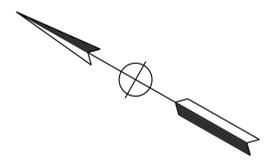
**NOTE:**  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	14	63

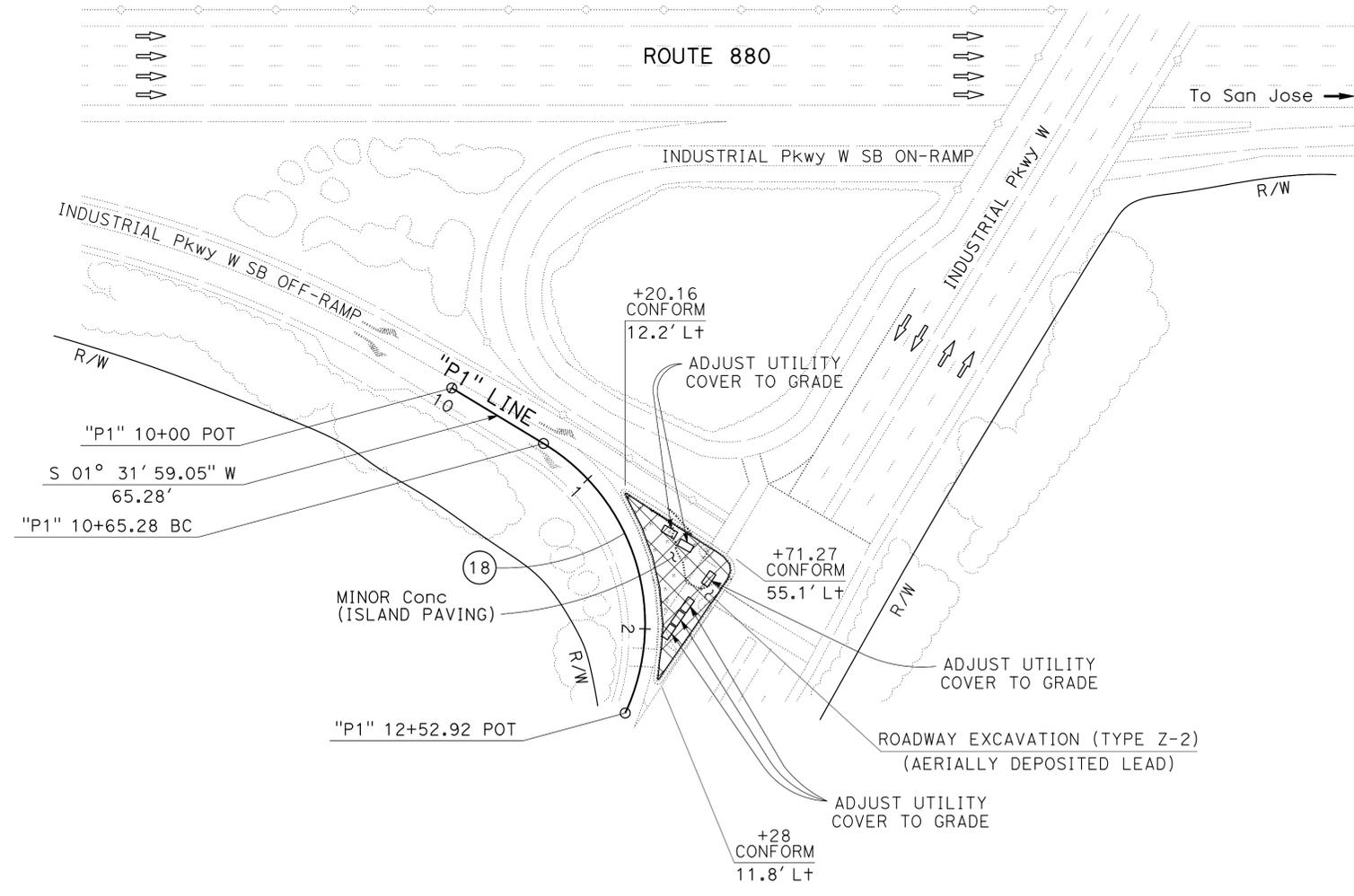
REGISTERED CIVIL ENGINEER DATE 1/30/15  
 3-16-15  
 PLANS APPROVAL DATE

Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

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**U N I O N   C I T Y**



**CURVE DATA**

No. @	R	Δ	T	L
18	127.96'	84° 01' 07"	115.25'	187.64'

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

**LAYOUT  
 LOCATION No. 11**  
 SCALE: 1" = 50'

**L - 11**

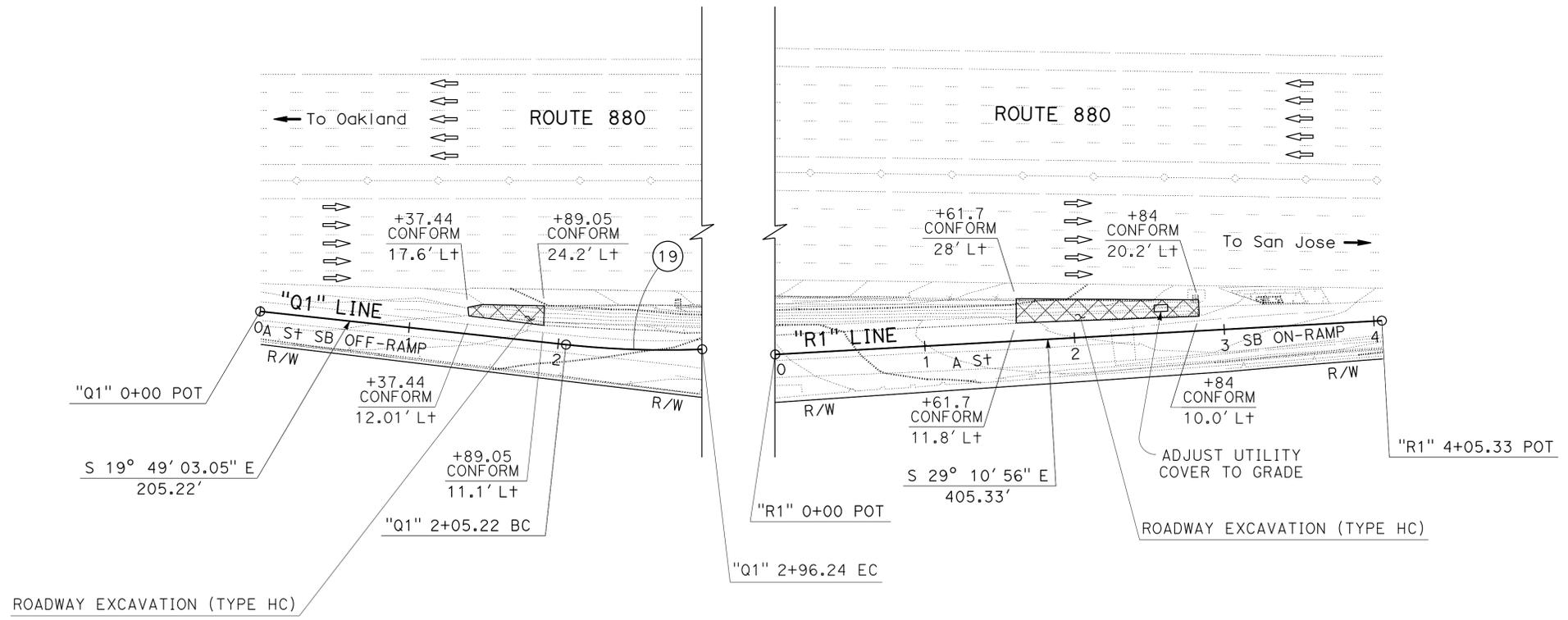
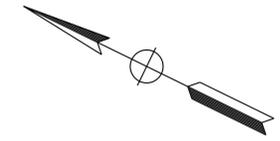
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	15	63
			REGISTERED CIVIL ENGINEER	DATE	
			Tuan P. Huynh	1/30/15	
			No. 63928	PLANS APPROVAL DATE	
			Exp. 9-30-16	3-16-15	
<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>					



**U N I O N   C I T Y**



**CURVE DATA**

No. ⊕	R	Δ	T	L
19	615.31'	08° 28' 32"	45.59'	91.02'

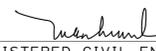
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

**LAYOUT**  
**LOCATION No. 12**  
 SCALE: 1" = 50'

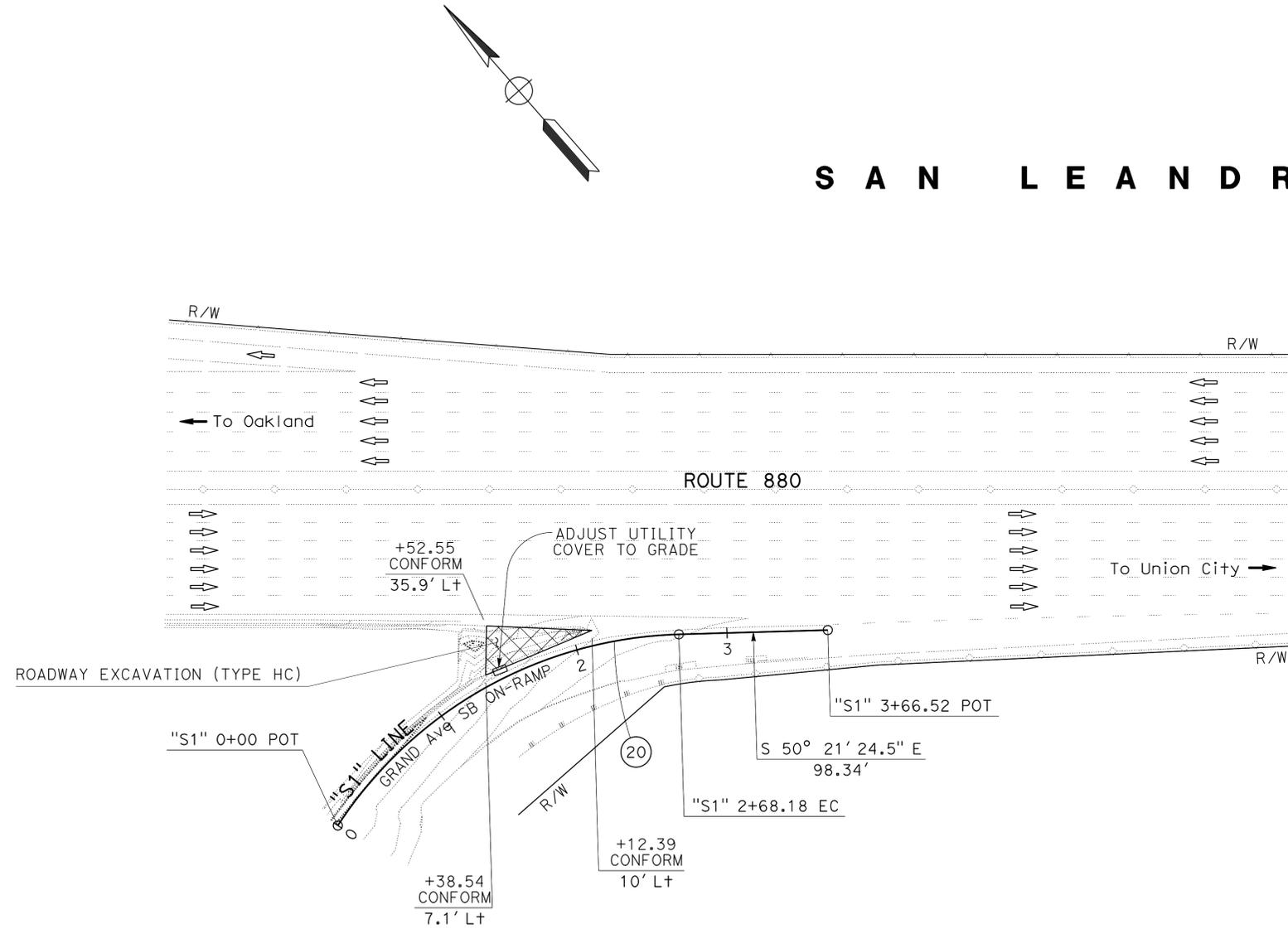
**L-12**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 CALCULATED/DESIGNED BY: REYES BELTRAN  
 CHECKED BY: TUAN HUYNH  
 REVISED BY: RB  
 DATE REVISED: 2/19/15

**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
04	Ala	238, 580, 680, 880	Var	16	63
			1/30/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					

SAN LEANDRO



**CURVE DATA**

No. Ⓣ	R	Δ	T	L
20	278.61'	55° 09' 04"	145.5'	268.18'

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

**LAYOUT**  
**LOCATION No. 13**  
 SCALE: 1" = 50'

**L-13**



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

FUNCTIONAL SUPERVISOR	TAM LY
CALCULATED/DESIGNED BY	CHECKED BY
REYES BELTRAN	TUAN HUYNH
REVISED BY	DATE REVISED
RB	2/19/15

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

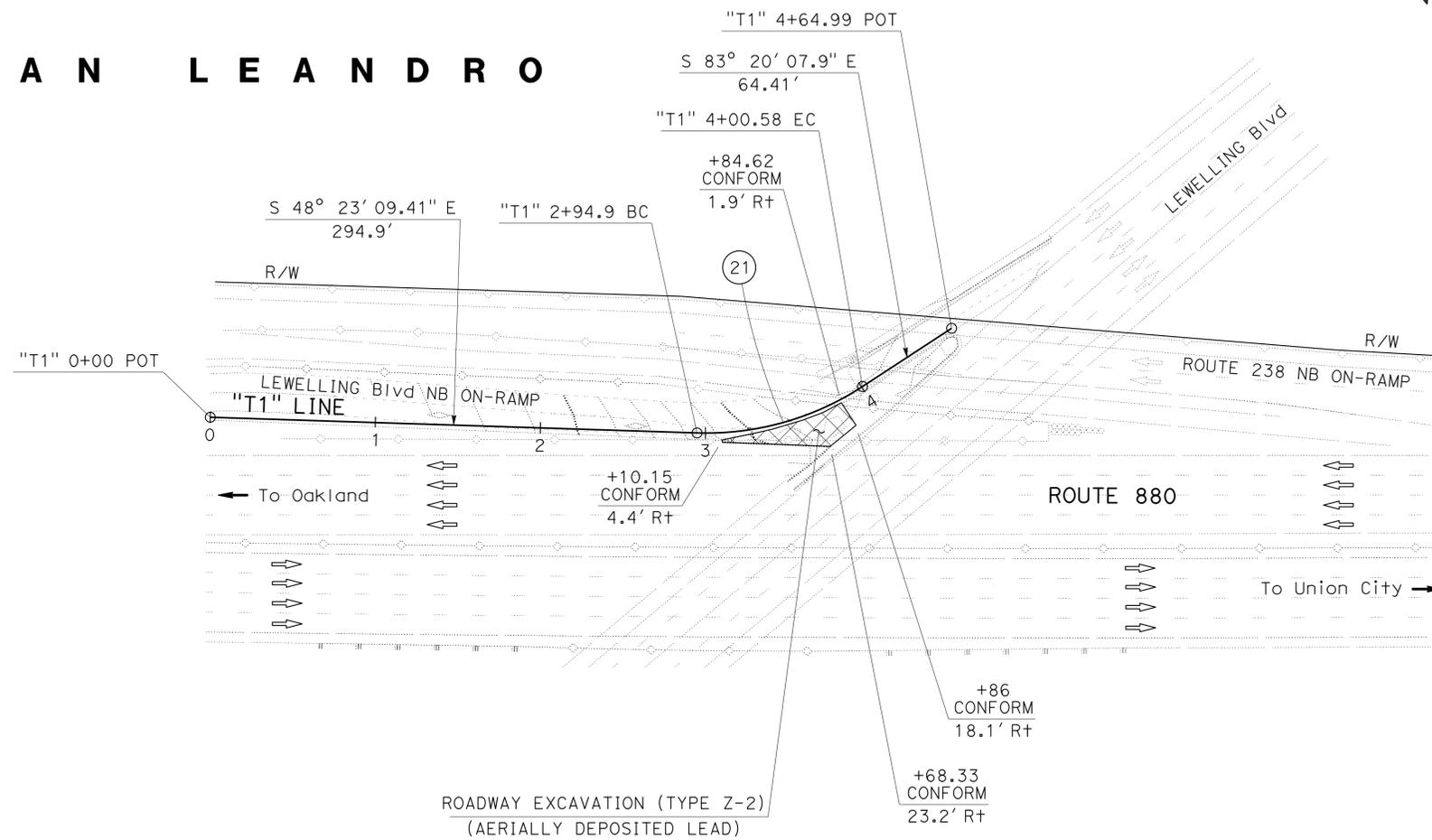
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	17	63

REGISTERED CIVIL ENGINEER DATE 1/30/15  
 3-16-15  
 PLANS APPROVAL DATE

Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 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.

**SAN LEANDRO**



**CURVE DATA**

No. Ⓞ	R	Δ	T	L
21	173.26'	34° 56' 58"	54.54'	105.68'

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

**LAYOUT**  
**LOCATION No. 14**  
 SCALE: 1" = 50'

**L-14**

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

FUNCTIONAL SUPERVISOR: TAM LY  
 CALCULATED/DESIGNED BY: REYES BELTRAN  
 CHECKED BY: TUAN HUYNH  
 REVISED BY: RB  
 DATE REVISED: 2/19/15

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

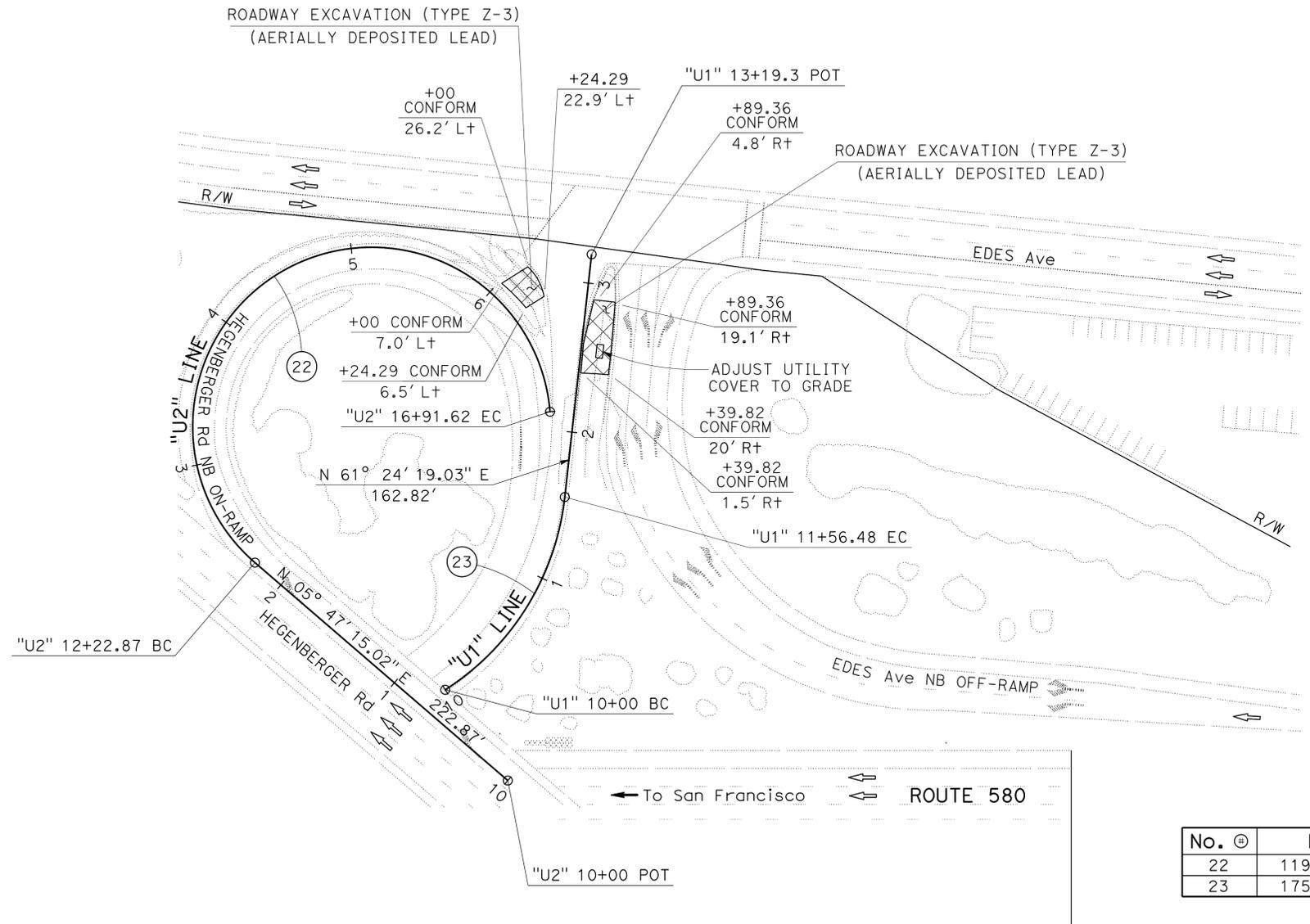
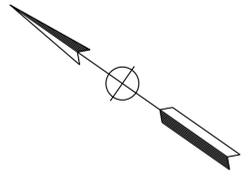
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	18	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

DATE: 1/30/15  
 PLANS APPROVAL DATE: 3-16-15

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

# O A K L A N D



**CURVE DATA**

No. @	R	Δ	T	L
22	119.61'	224° 32' 36"	292.04'	468.74'
23	175.43'	51° 06' 29"	83.88'	156.48'

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

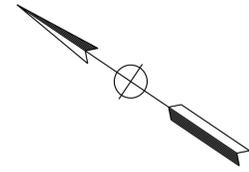
**LAYOUT**  
**LOCATION No. 15**  
 SCALE: 1" = 50'

**L-15**

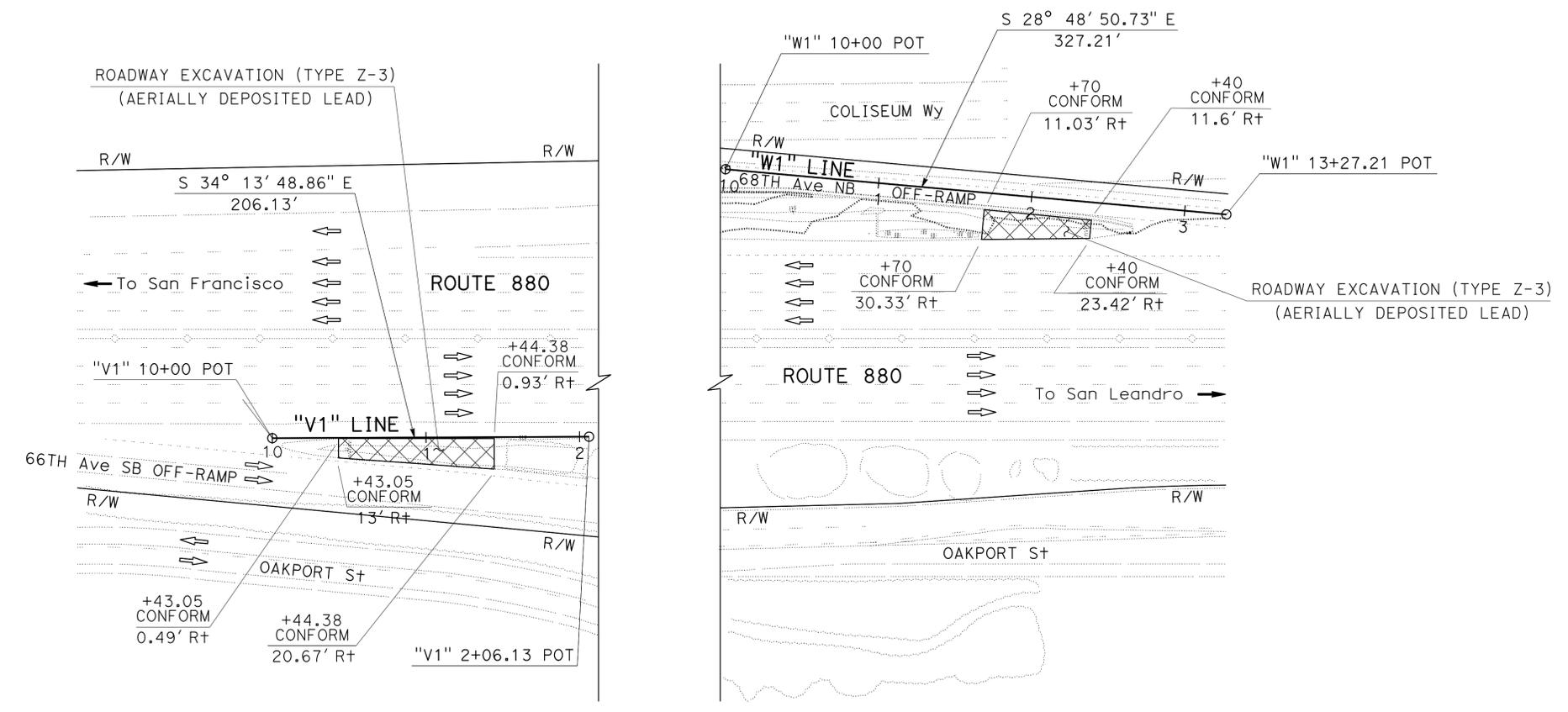
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

**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
04	Ala	238, 580, 680, 880	Var	19	63
			REGISTERED CIVIL ENGINEER	DATE	
			Tuan P. Huynh	1/30/15	
			No. 63928		
			Exp. 9-30-16		
			CIVIL		
<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>					



**O A K L A N D**



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

**LAYOUT**  
**LOCATION No. 16**  
 SCALE: 1" = 50'

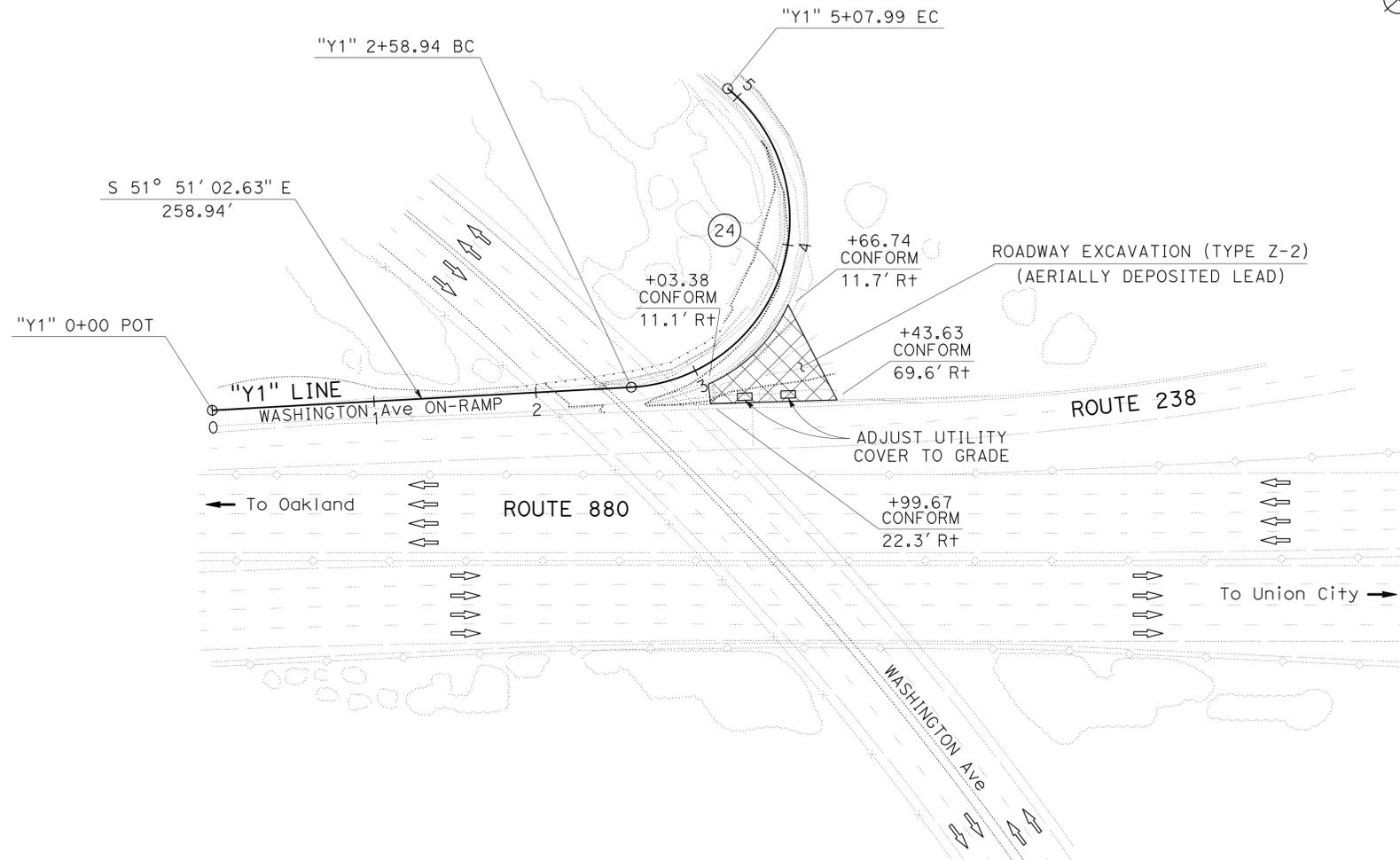
**L-16**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: TAM LY  
 CALCULATED/DESIGNED BY: REYES BELTRAN  
 CHECKED BY: TUAN HUYNH  
 REVISED BY: RB  
 DATE REVISED: 2/19/15

**NOTE:**

RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN.  
 THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE  
 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.

**S A N L E A N D R O**



**CURVE DATA**

No. Ⓢ	R	Δ	T	L
24	103.5'	137° 51' 49"	268.68'	249.05'

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	20	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL

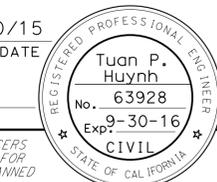
DATE: 1/30/15  
 PLANS APPROVAL DATE: 3-16-15

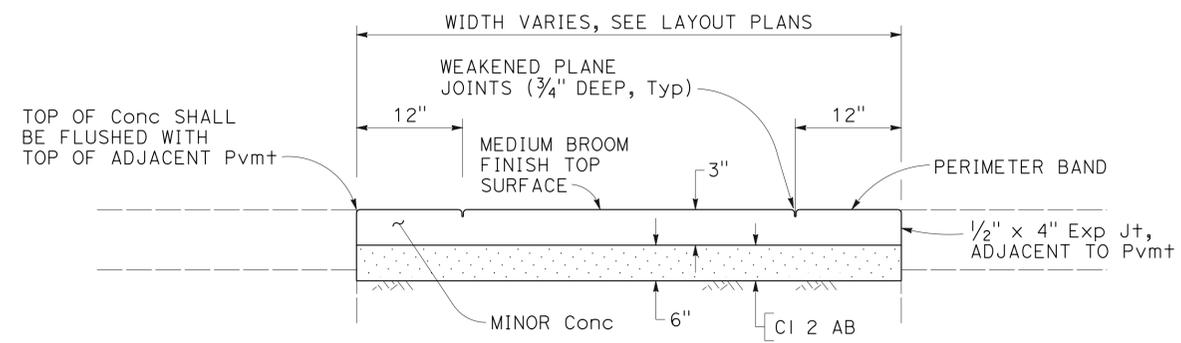
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**LAYOUT  
 LOCATION No. 17**  
 SCALE: 1" = 50'

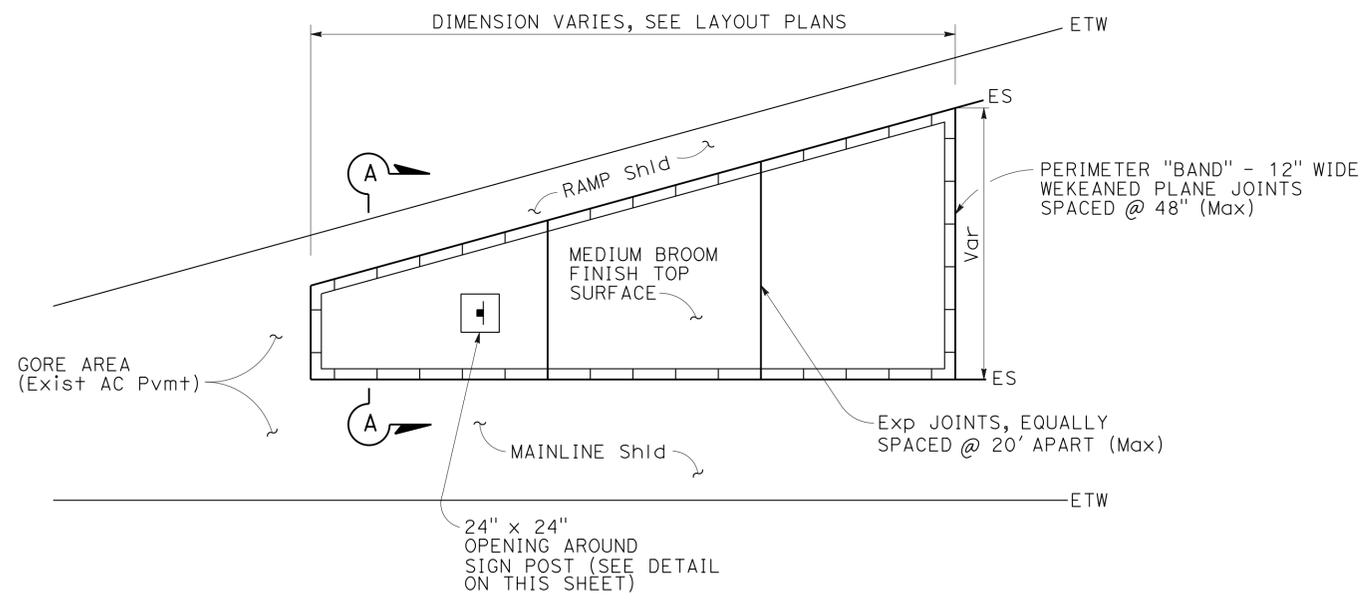
**L-17**



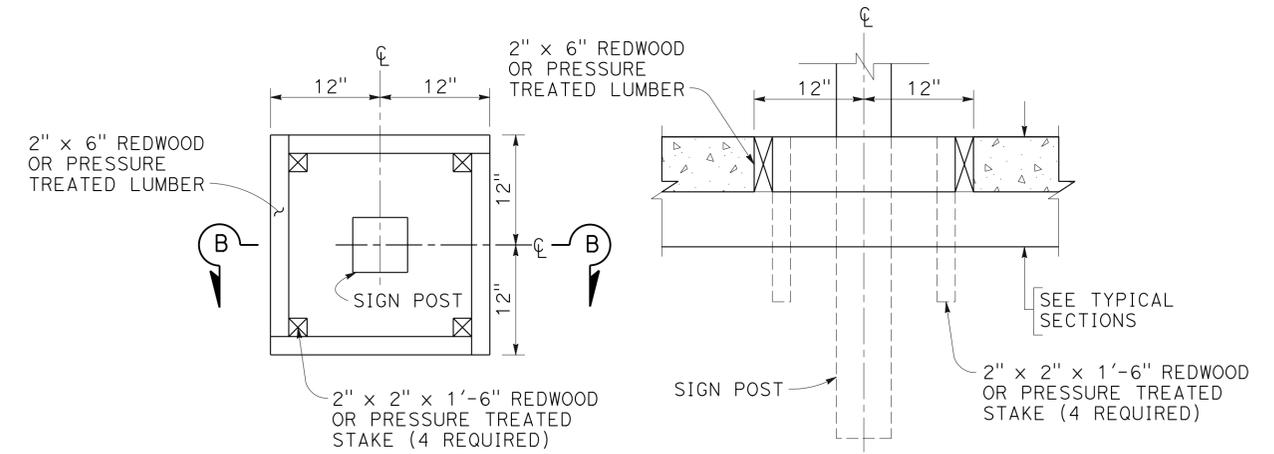
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	21	63
			1/30/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			PLANS APPROVAL DATE		
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



SECTION A-A



PLAN  
MINOR CONCRETE (TEXTURED PAVING)



PLAN SECTION B-B  
OPENING FOR SIGN POST  
IN MINOR CONCRETE (TEXTURED PAVING)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN  
 REYES BELTRAN  
 TUAN HUYNH  
 TAM LY  
 RB  
 2/19/15

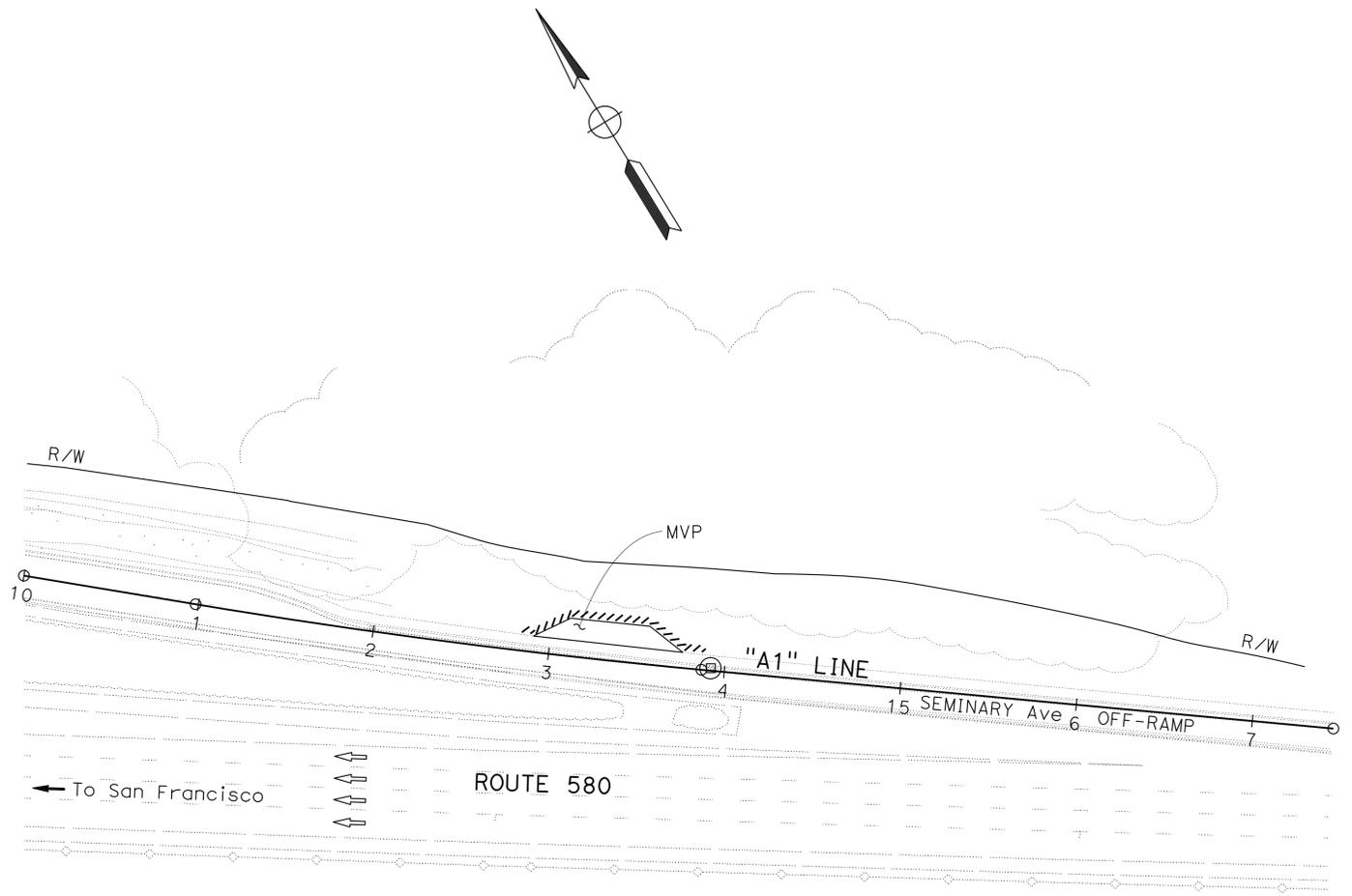
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 FUNCTIONAL SUPERVISOR  
 KAMRAN NAKHJURI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 KAMRAN NAKHJURI  
 GANGA TRIPATHI  
 KAMRAN NAKHJURI  
 REVISED BY  
 DATE REVISED  
 GT  
 1/30/15

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

**LEGEND:**  
 // // // // // TEMPORARY FIBER ROLL  
 ⊕ TEMPORARY DRAINAGE INLET PROTECTION

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	22	63

2/25/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE  
 Ganga D. Tripathi  
 No. 78447  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



**WPC NOTE:**  
 TEMPORARY BMP LOCATIONS ARE DESIGNED BASED ON DISTURBED AREA AND STORM WATER FLOW PATTERN INFORMATION AVAILABLE AT DESIGN PHASE.  
 CONTRACTOR IS RESPONSIBLE TO DEVELOP A WPCP THAT STABILIZES THE ENTIRE PROJECT SITE INCLUDING ALL UNEXPECTED DISTURBED AREA AND COMPLIES WITH PERMITS, LICENSES, AGREEMENTS AND CERTIFICATIONS (PLACS).

**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 1**  
 SCALE: 1" = 50'

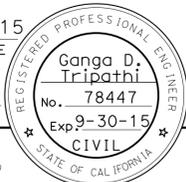
APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

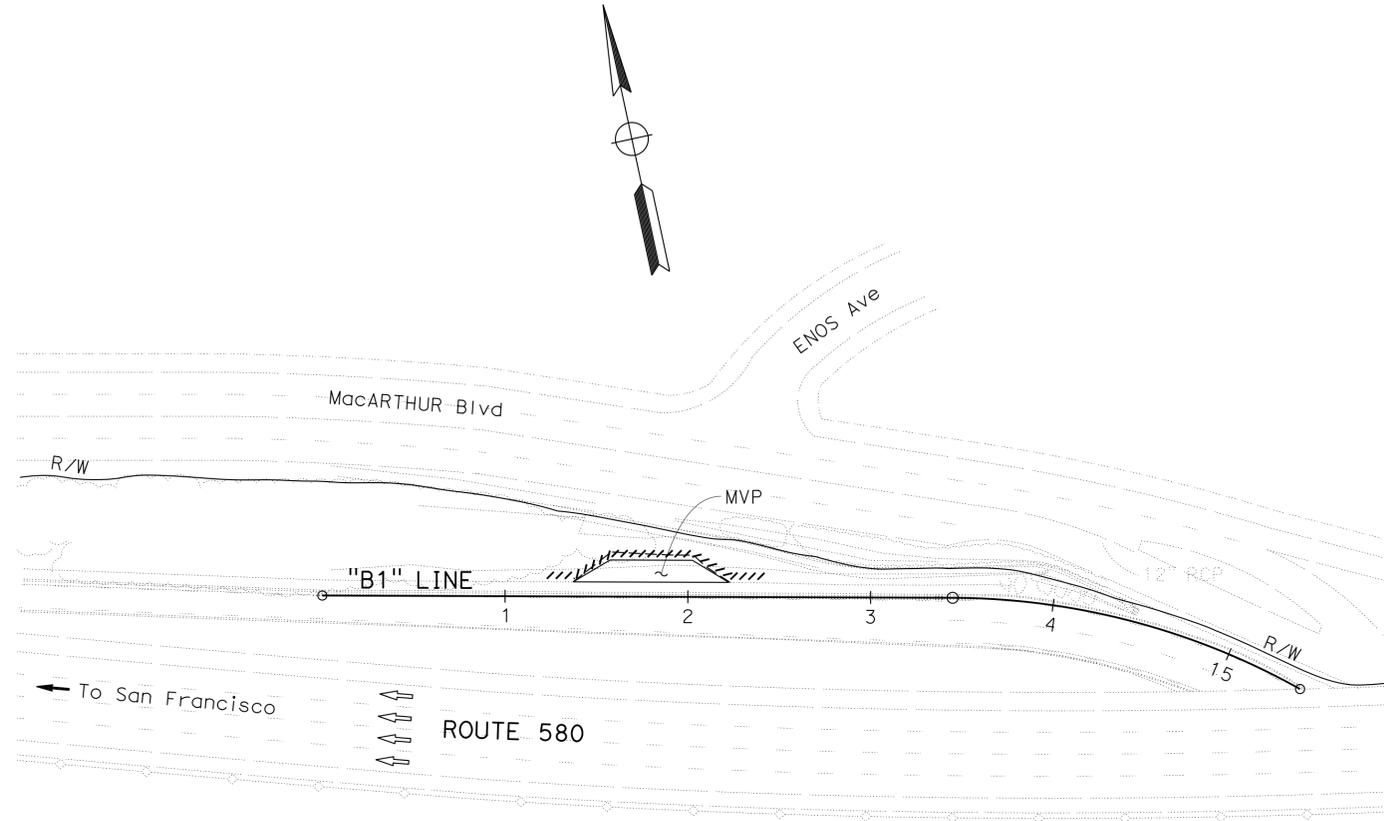
**WPC-1**

LAST REVISION DATE PLOTTED => 01-APR-2015  
 01-30-15 TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
	KAMRAN NAKHJURI	CHECKED BY	GANGA TRIPATHI	1/30/15
Caltrans®	WATER QUALITY	GANGA TRIPATHI		
		KAMRAN NAKHJURI		

**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
04	Ala	238, 580, 680, 880	Var	23	63
			2/25/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					



**TEMPORARY WATER POLLUTION CONTROL PLAN  
LOCATION 2**  
SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

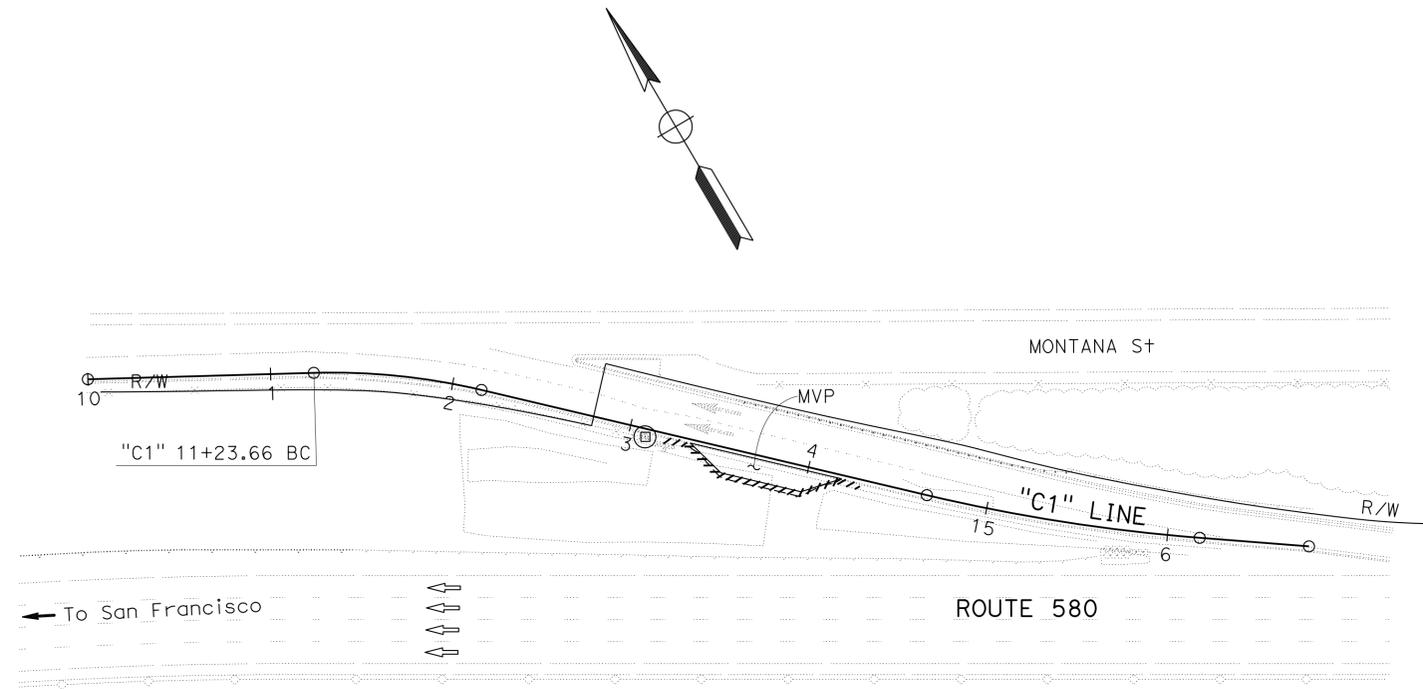
FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET WPC-1

**WPC-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	GT

**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
04	Ala	238, 580, 680, 880	Var	24	63
			2/25/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					

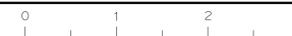


**TEMPORARY WATER POLLUTION CONTROL PLAN  
LOCATION 3**  
SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

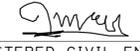
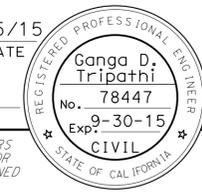
FOR NOTES, ABBREVIATIONS  
AND LEGEND, SEE SHEET WPC-1

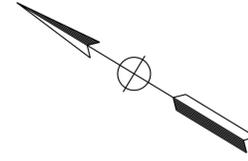
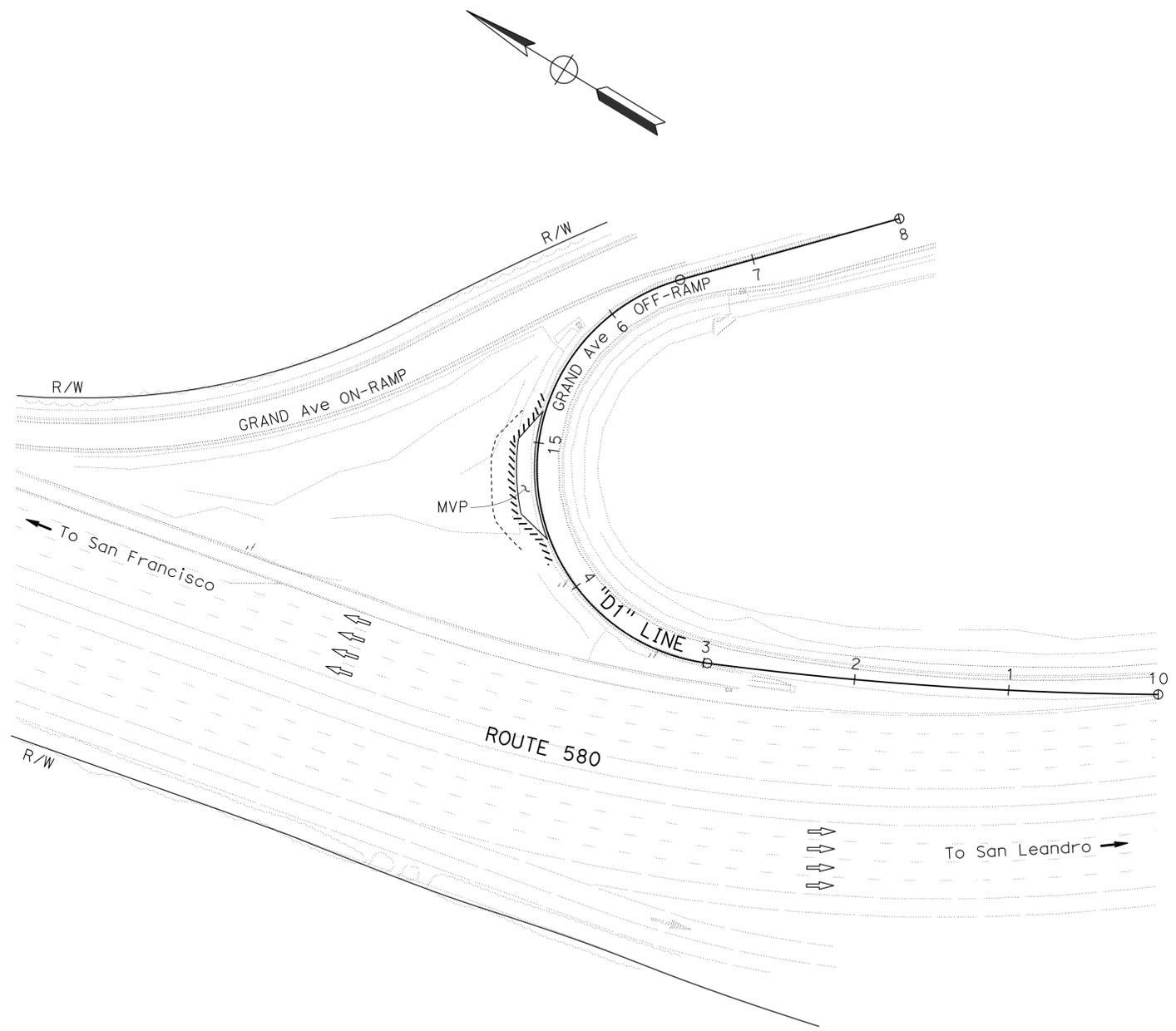
**WPC-3**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b> WATER QUALITY	FUNCTIONAL SUPERVISOR KAMRAN NAKHJURI	CALCULATED-DESIGNED BY CHECKED BY	GANGA TRIPATHI KAMRAN NAKHJURI	REVISED BY DATE REVISED	GT 1/30/15

**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
04	Ala	238, 580, 680, 880	Var	25	63
			2/25/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					



## TEMPORARY WATER POLLUTION CONTROL PLAN LOCATION 4

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

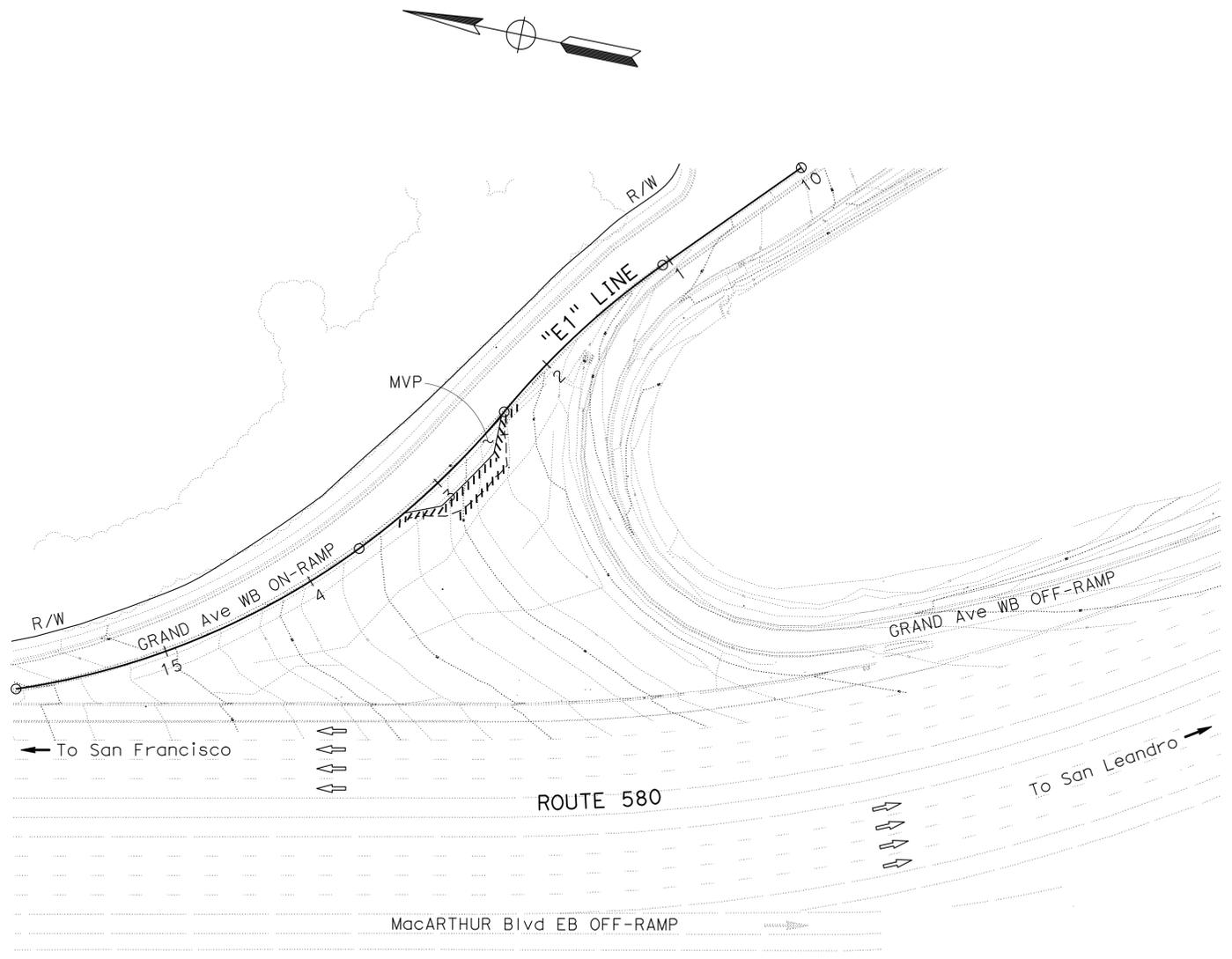
**WPC-4**

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 01-30-15 | TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	GT

**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
04	Ala	238, 580, 680, 880	Var	26	63
			REGISTERED CIVIL ENGINEER	DATE	
			Ganga D. Tripathi	2/25/15	
			No. 78447		
			Exp. 9-30-15		
			CIVIL		
<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>					



## TEMPORARY WATER POLLUTION CONTROL PLAN LOCATION 5

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

**WPC-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY

FUNCTIONAL SUPERVISOR  
 KAMRAN NAKHJURI

CALCULATED/DESIGNED BY  
 CHECKED BY

GANGA TRIPATHI  
 KAMRAN NAKHJURI

REVISED BY  
 DATE REVISED

GT  
 1/30/15

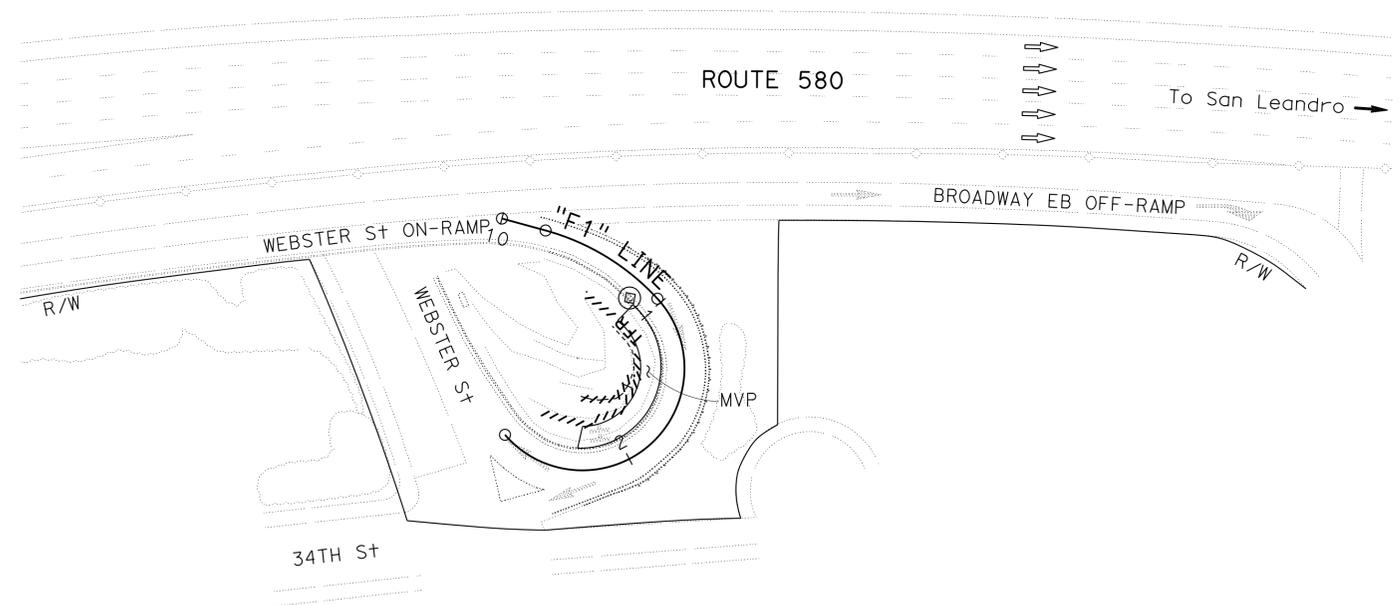
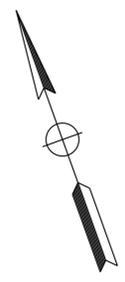
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	27	63

2/25/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

Ganga D. Tripathi  
 No. 78447  
 Exp. 9-30-15  
 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.



**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 6**  
 SCALE: 1" = 50'

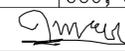
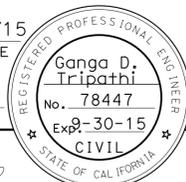
APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

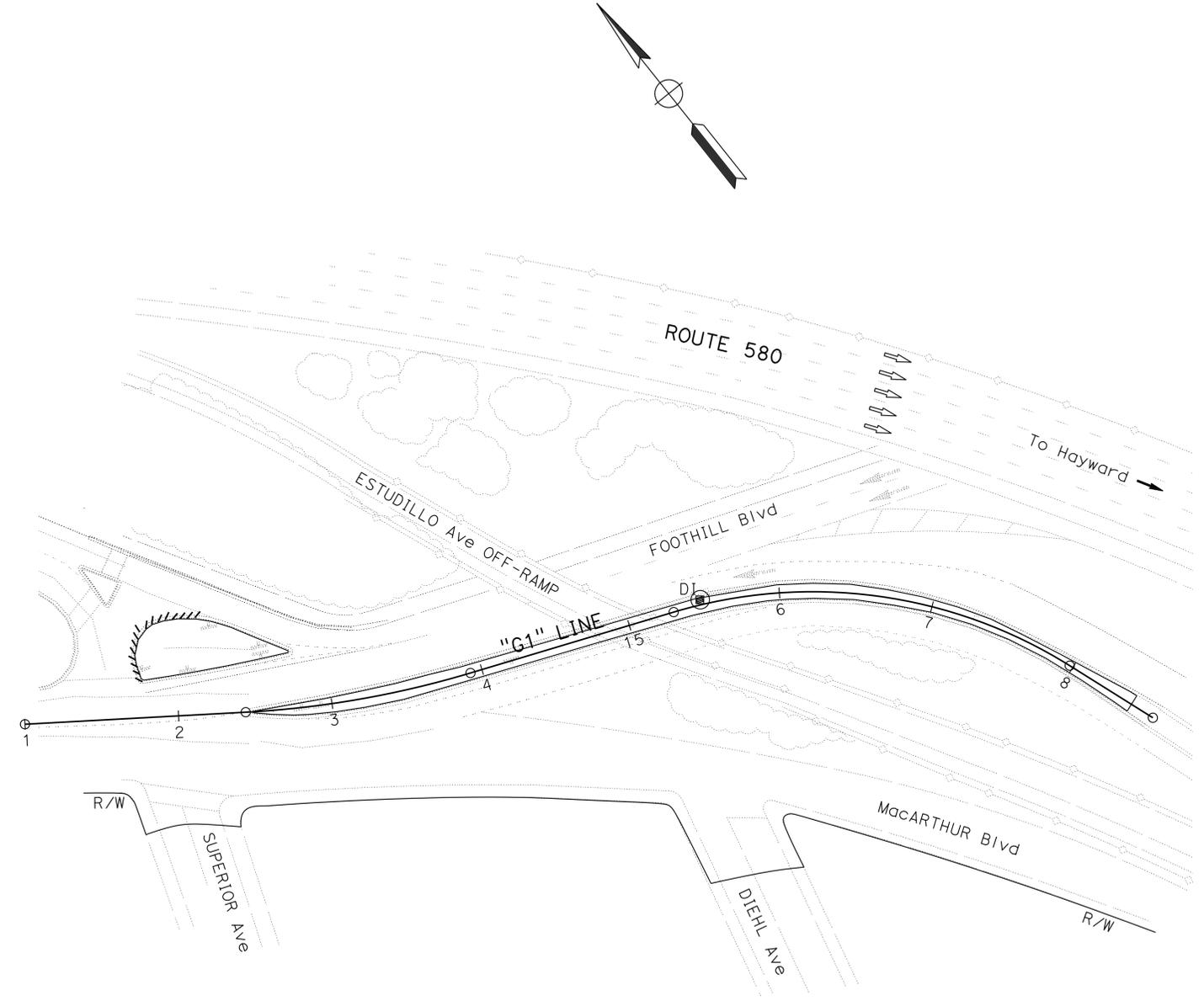
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET WPC-1

**WPC-6**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	GT
Caltrans®	KAMRAN NAKHJURI	CHECKED BY	KAMRAN NAKHJURI	1/30/15

**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
04	Ala	238, 580, 680, 880	Var	28	63
			2/25/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					



# TEMPORARY WATER POLLUTION CONTROL PLAN

## LOCATION 7

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

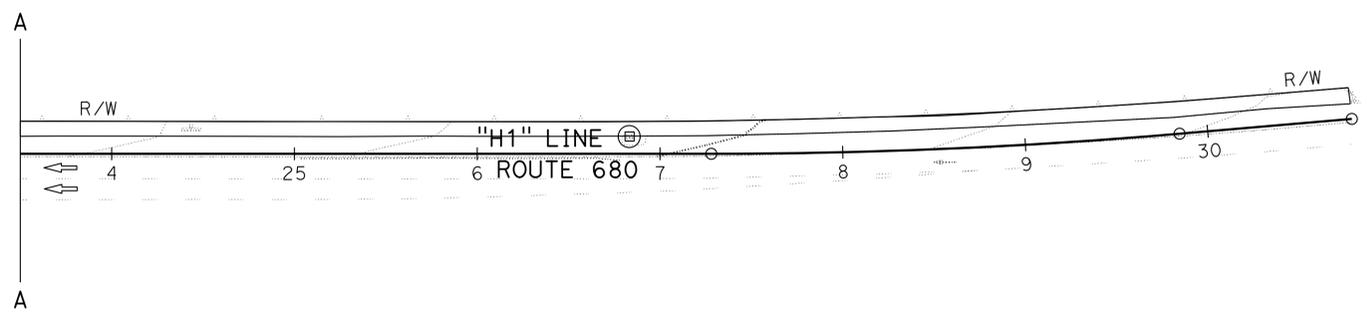
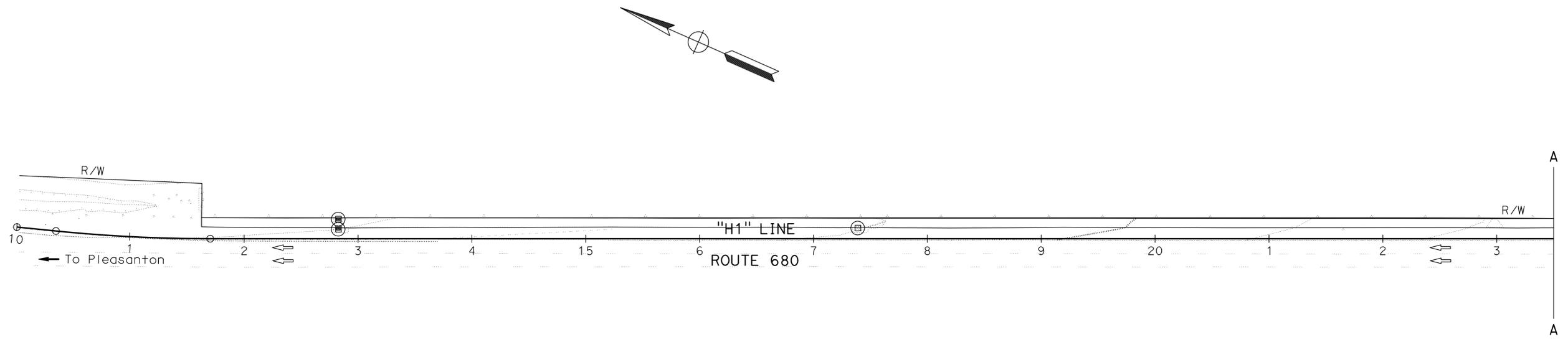
**WPC-7**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 FUNCTIONAL SUPERVISOR  
 KAMRAN NAKHJURI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 KAMRAN NAKHJURI  
 GANGA TRIPATHI  
 KAMRAN NAKHJURI  
 REVISED BY  
 DATE REVISED  
 GT  
 1/30/15

**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
04	Ala	238, 580, 680, 880	Var	29	63

2/25/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE  
 Ganga D. Tripathi  
 No. 78447  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA  
 REGISTERED PROFESSIONAL ENGINEER  
 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.



**TEMPORARY WATER POLLUTION CONTROL PLAN  
 LOCATION 8**

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

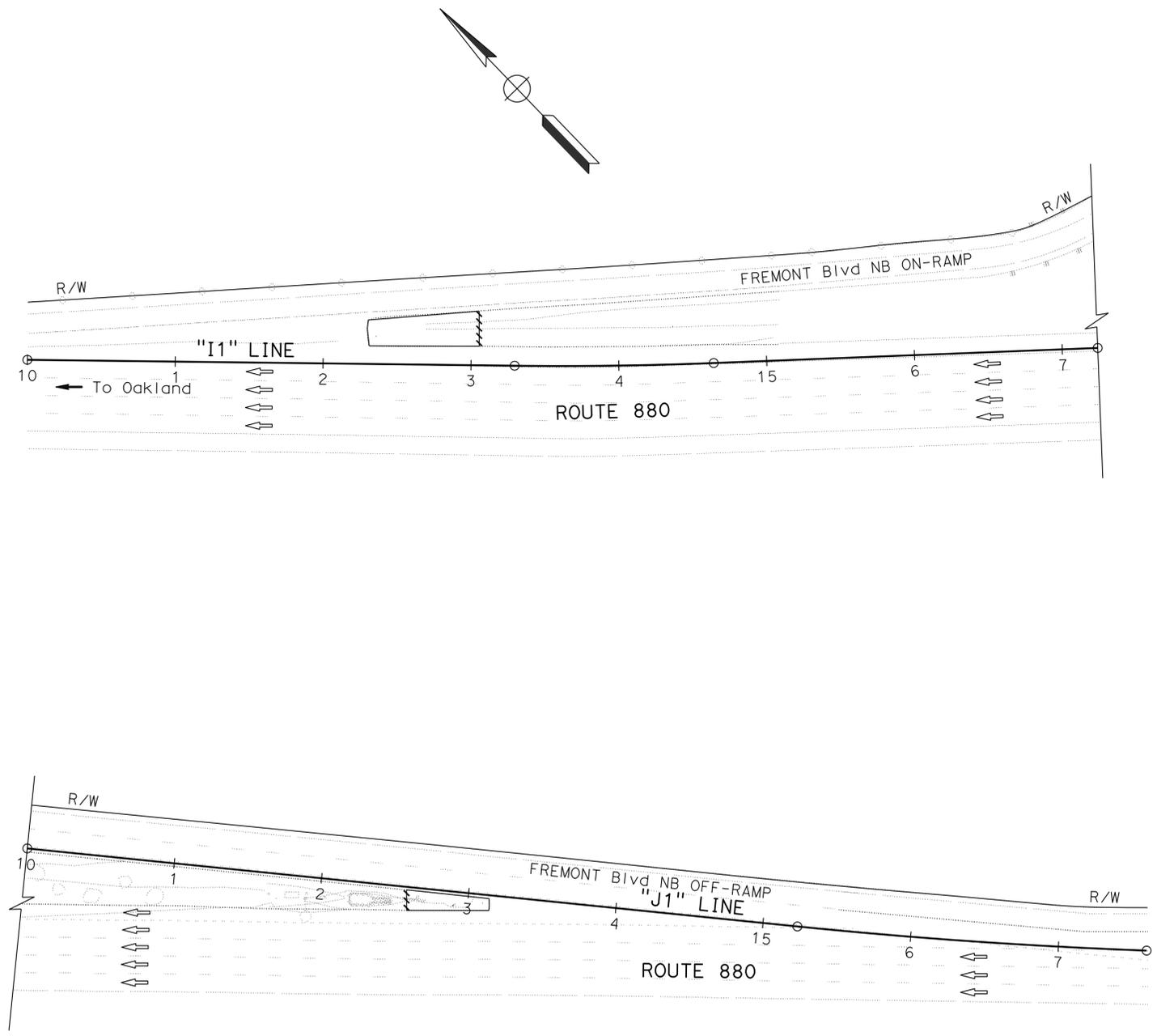
**WPC-8**

LAST REVISION DATE PLOTTED => 01-APR-2015 01-30-15 TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY  
 FUNCTIONAL SUPERVISOR  
 KAMRAN NAKHJURI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 GANGA TRIPATHI  
 KAMRAN NAKHJURI  
 REVISED BY  
 DATE REVISED  
 GT  
 1/30/15

**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
04	Ala	238, 580, 680, 880	Var	30	63
			REGISTERED CIVIL ENGINEER	DATE	
			Ganga D. Tripathi	2/25/15	
			No. 78447	PLANS APPROVAL DATE	
			Exp 9-30-15	3-16-15	
<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>					



**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 9**  
 SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

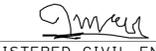
**WPC-9**

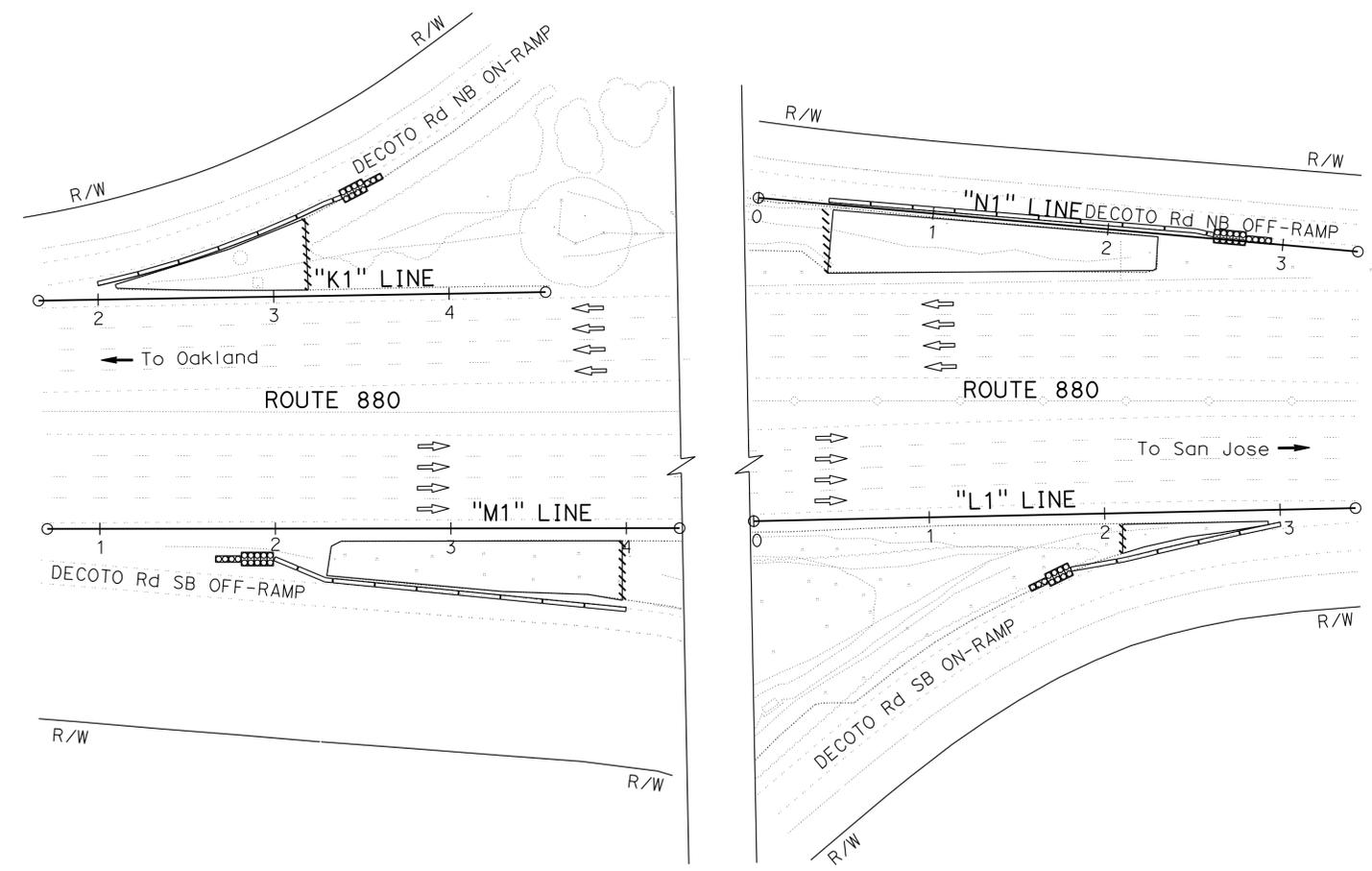
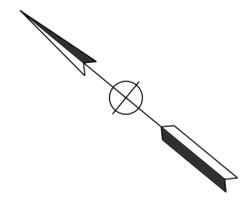
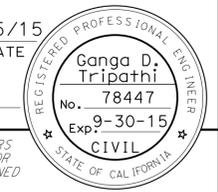
LAST REVISION | DATE PLOTTED => 01-APR-2015  
 01-30-15 TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY

FUNCTIONAL SUPERVISOR: KAMRAN NAKHJURI  
 CALCULATED/DESIGNED BY: GANGA TRIPATHI  
 CHECKED BY: KAMRAN NAKHJURI  
 REVISED BY: GT  
 DATE REVISED: 1/30/15

**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
04	Ala	238, 580, 680, 880	Var	31	63
			2/25/15	DATE	
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 10**

SCALE: 1" = 50'

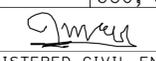
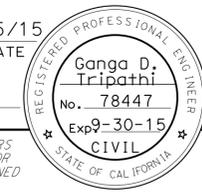
APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

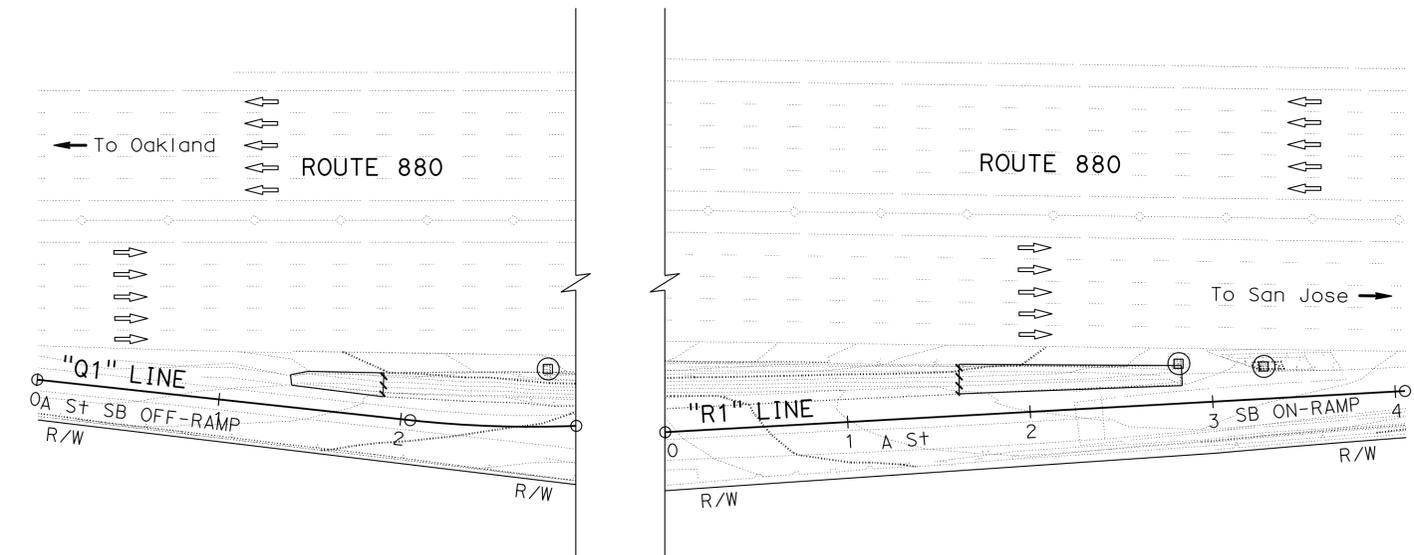
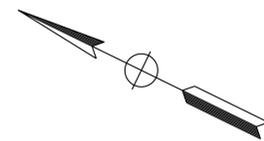
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET WPC-1

**WPC-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
<b>Caltrans</b> WATER QUALITY	KAMRAN NAKHJURI	KAMRAN NAKHJURI	GT	1/30/15
		GANGA TRIPATHI		
		KAMRAN NAKHJURI		

**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
04	Ala	238, 580, 680, 880	Var	32	63
			2/25/15		
REGISTERED CIVIL ENGINEER			DATE		
3-16-15			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>					



## TEMPORARY WATER POLLUTION CONTROL PLAN LOCATION 12

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

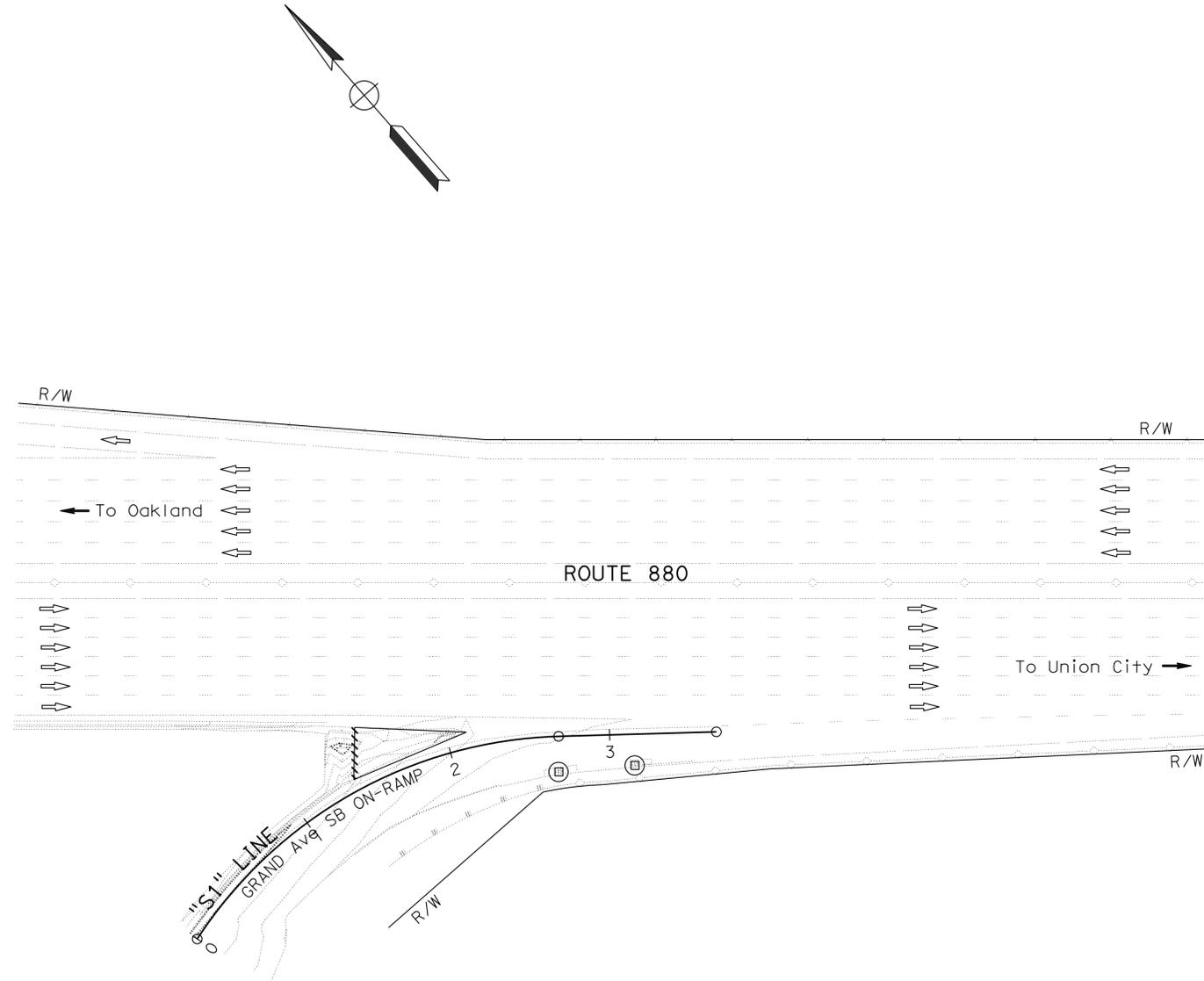
**WPC-11**

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 01-30-15 | TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	GT

**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
04	Ala	238, 580, 680, 880	Var	33	63
			DATE		
			2/25/15		
			REGISTERED CIVIL ENGINEER		
			Ganga D. Tripathi		
			No. 78447		
			PLANS APPROVAL DATE		
			3-16-15		
			Exp. 9-30-15		
			CIVIL		
<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>					

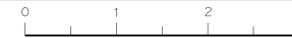


**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 13**  
SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

**WPC-12**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY

FUNCTIONAL SUPERVISOR  
KAMRAN NAKHJURI

CALCULATED/DESIGNED BY  
CHECKED BY

GANGA TRIPATHI  
KAMRAN NAKHJURI

REVISED BY  
DATE REVISED

GT  
1/30/15

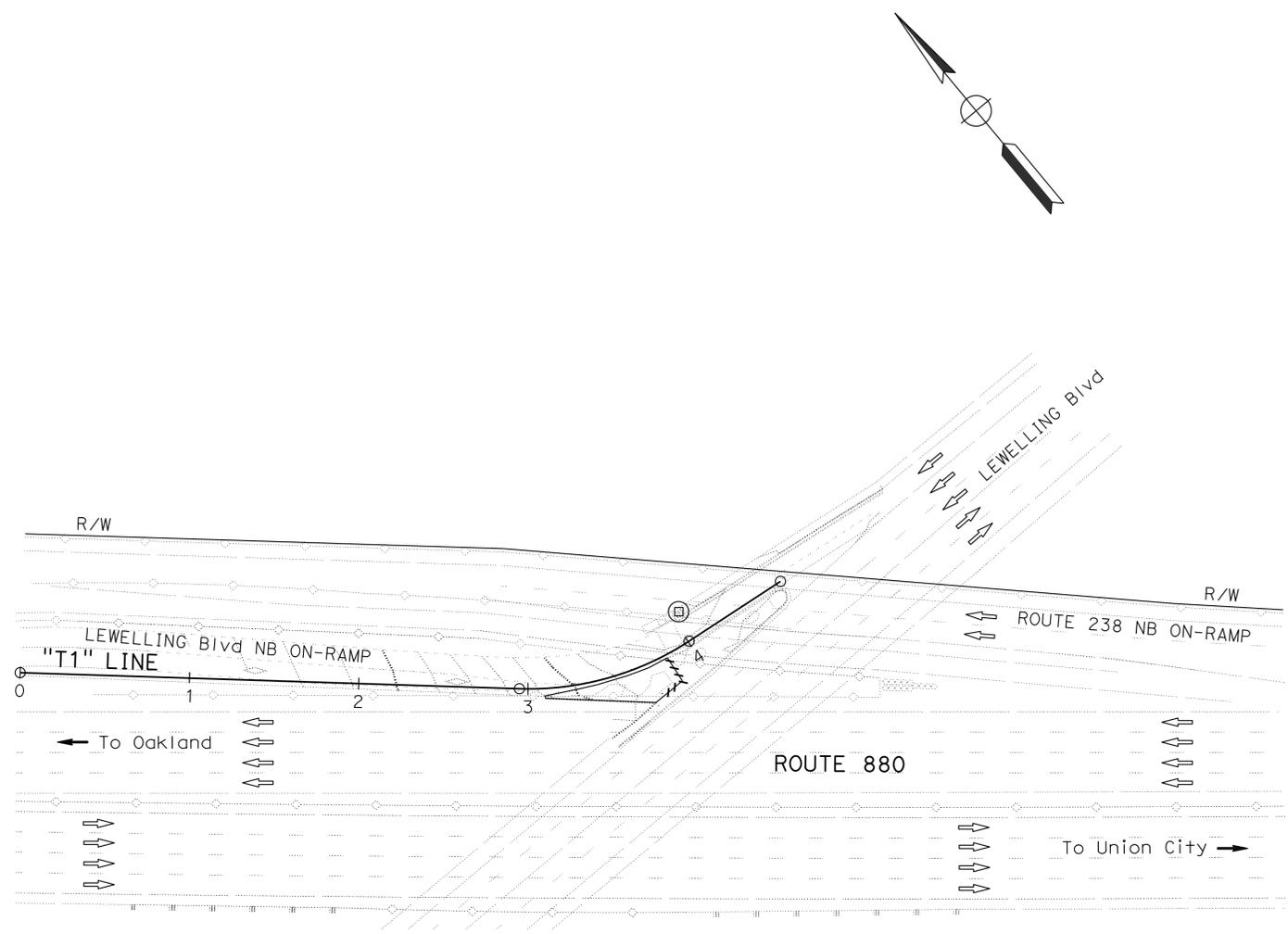
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	34	63

REGISTERED CIVIL ENGINEER DATE 2/25/15  
 3-16-15  
 PLANS APPROVAL DATE

Ganga D. Tripathi  
 No. 78447  
 Exp 9-30-15  
 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.



**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 14**  
 SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

**WPC-13**

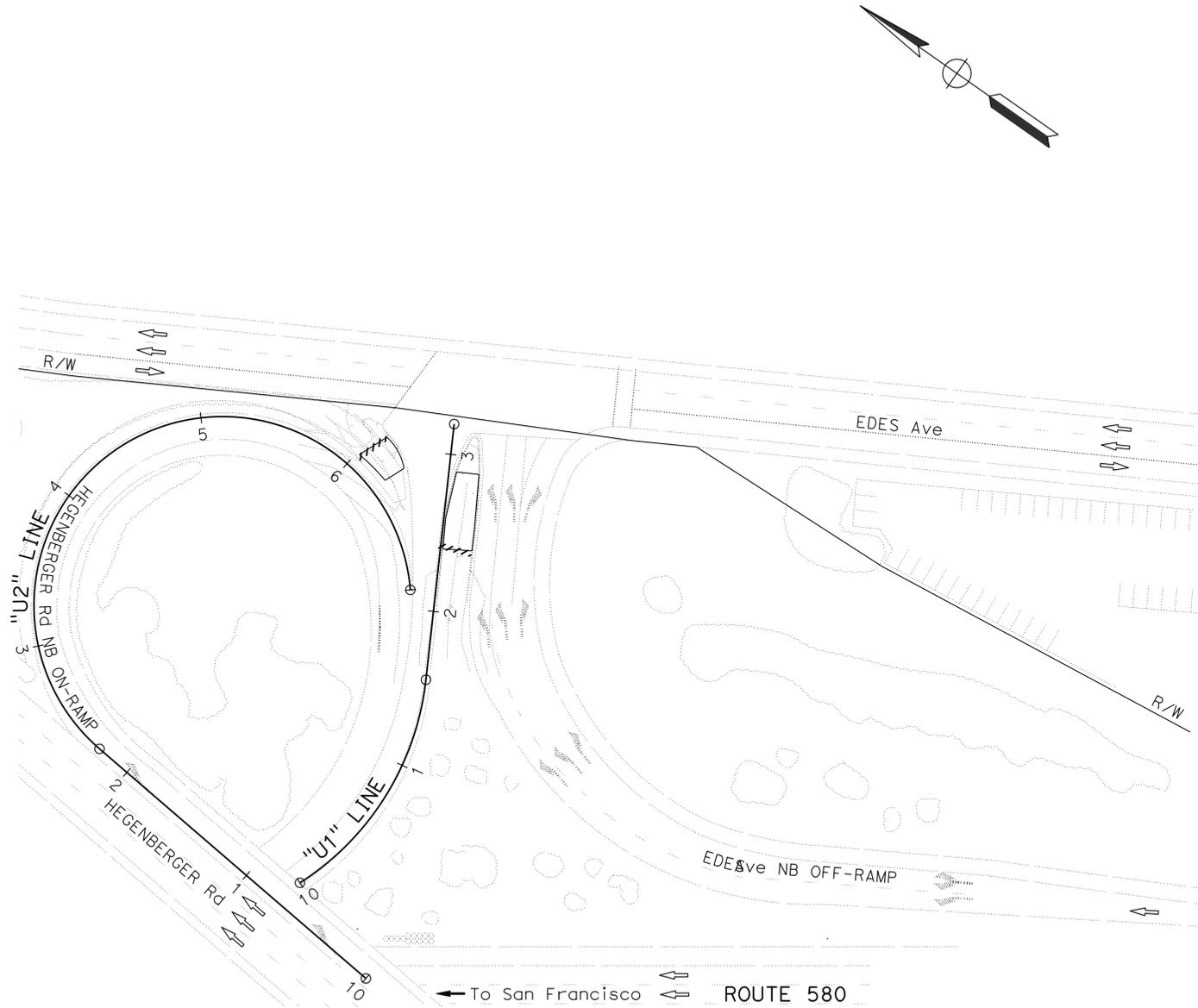
LAST REVISION | DATE PLOTTED => 01-APR-2015  
 01-30-15 | TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	GT
	KAMRAN NAKHJURI	CHECKED BY	KAMRAN NAKHJURI	1/30/15
<b>Caltrans</b>	<b>WATER QUALITY</b>			

**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
04	Ala	238, 580, 680, 880	Var	35	63
			REGISTERED CIVIL ENGINEER	DATE	
			3-16-15	2/25/15	
			PLANS APPROVAL DATE		

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



## TEMPORARY WATER POLLUTION CONTROL PLAN

### LOCATION 15

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

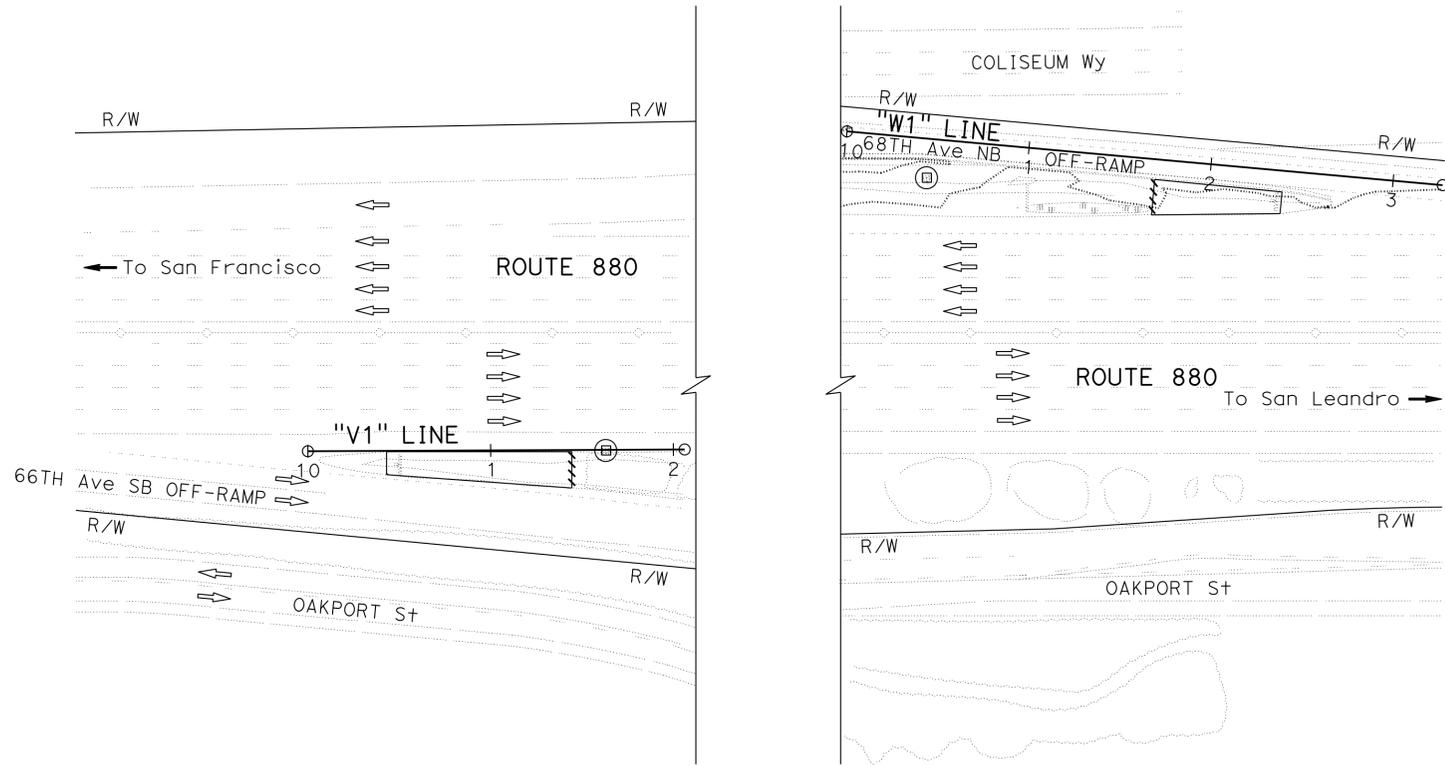
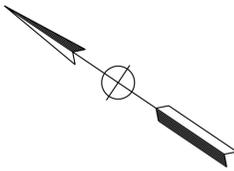
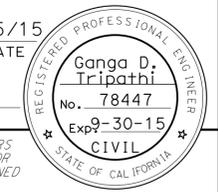
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET WPC-1

**WPC-14**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	WATER QUALITY	FUNCTIONAL SUPERVISOR	KAMRAN NAKHJURI
		CALCULATED/DESIGNED BY	CHECKED BY
		GANGA TRIPATHI	KAMRAN NAKHJURI
		REVISOR BY	DATE REVISED
		GT	1/30/15

**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
04	Ala	238, 580, 680, 880	Var	36	63
			DATE		
			2/25/15		
			REGISTERED CIVIL ENGINEER		
			3-16-15		
			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>					



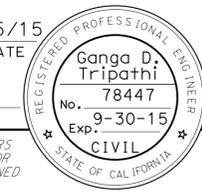
**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 16**

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

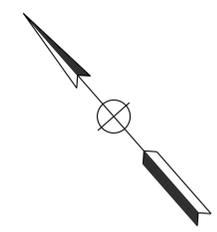
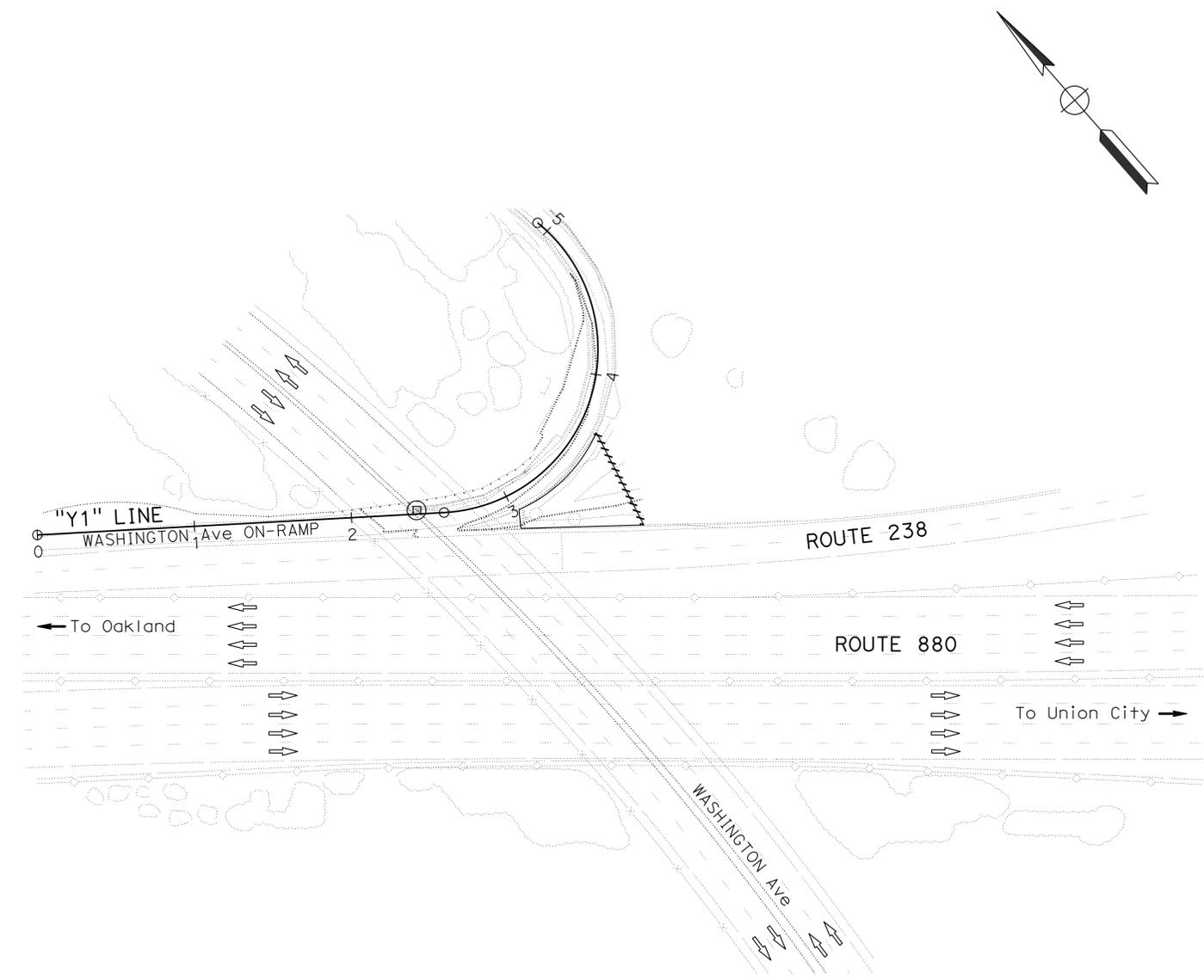
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET WPC-1

**WPC-15**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	37	63
				2/25/15	
		REGISTERED CIVIL ENGINEER		DATE	
		3-16-15		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:**

RIGHT OF WAY LIMITS ARE INDETERMINATE, AND ARE NOT SHOWN.  
 THE CONTRACTOR MUST CONTACT RIGHT OF WAY ENGINEERING AT THE  
 DISTRICT OFFICE FOR CONDITIONS OF USE PRIOR TO COMMENCING WORK.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	GT
<b>Caltrans</b> WATER QUALITY	KAMRAN NAKHJURI	CHECKED BY	KAMRAN NAKHJURI	1/30/15

**TEMPORARY WATER POLLUTION CONTROL PLAN**  
**LOCATION 17**

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

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

**WPC-16**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** WATER QUALITY

FUNCTIONAL SUPERVISOR  
 KAMRAN NAKHJURI

CALCULATED/DESIGNED BY  
 CHECKED BY

GANGA TRIPATHI  
 KAMRAN NAKHJURI

REVISED BY  
 DATE REVISED

GT  
 1/30/15

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES**

SHEET No.	STATION	LOCATION No.	TEMPORARY WATER POLLUTION CONTROL QUANTITIES	
			TEMPORARY FIBER ROLLS LF	TEMPORARY DRAINAGE INLET PROTECTION EA
WPC-1	"A1" 12+90 TO 13+75	1	100	1
WPC-2	"B1" 11+38 TO 12+23	2	100	
WPC-3	"C1" 13+34 TO 14+19	3	100	1
WPC-4	"D1" 14+36 TO 15+21	4	100	
WPC-5	"E1" 12+40 TO 13+28	5	100	
WPC-6	"F1" 10+90 TO 12+70	6	150	1
WPC-7	"G1" 11+25 TO 18+45	7	100	1
WPC-8	"H1" 11+62 TO 30+80	8		4
WPC-9	"I1" 10+30 TO 13+05	9	25	
	"J1" 12+58 TO 13+14		25	
WPC-10	"K1" 12+58 TO 13+20	10	50	
	"L1" 12+10 TO 12+43		20	
	"M1" 12+30 TO 14+00		50	
	"N1" 10+43 TO 12+30		50	
WPC-12	"Q1" 11+38 TO 11+90	12	20	1
	"R1" 11+62 TO 12+83		20	2
WPC-13	"S1" 11+40 TO 12+13	13	40	2
WPC-14	"T1" 13+00 TO 13+86	14	50	1
WPC-15	"U1" 12+40 TO 12+90	15	25	
	"U2" 16+02 TO 16+24		25	
WPC-16	"V1" 10+43 TO 11+45	16	25	1
	"W1" 11+70 TO 12+40		25	1
WPC-17	"Y1" 12+00 TO 13+70	17	100	1
TOTAL			1300	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	38	63

 2/25/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Ganga D. Tripathi  
 No. 78447  
 Exp. 9-30-15  
 CIVIL  
 STATE OF CALIFORNIA

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

**TEMPORARY WATER POLLUTION CONTROL QUANTITIES**

**WPCQ-1**

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 02-19-15 | TIME PLOTTED => 14:35

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

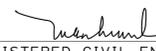
FUNCTIONAL SUPERVISOR: TAM LY  
 CHECKED BY: TUAN HUYNH  
 REVISOR: REYES BELTRAN  
 DATE: 2/19/15  
 RB

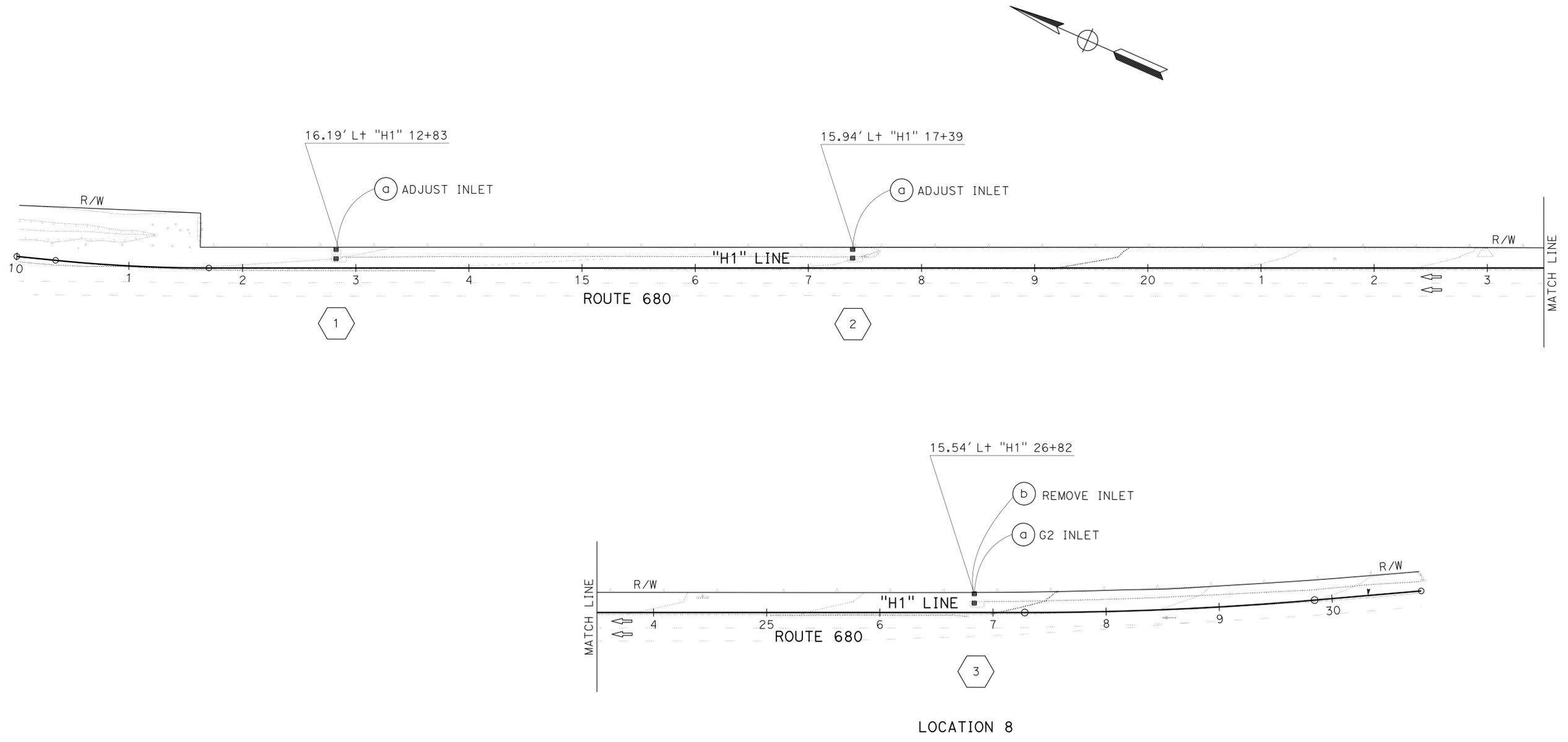
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

**NOTE:**  
 LOCATION OF EXISTING DRAINAGE FACILITIES ARE APPROXIMATE. VERIFY LOCATION  
 AND ELEVATION OF EXISTING DRAINAGE FACILITIES PRIOR TO MODIFYING.

**LEGEND:**

- ① DRAINAGE SYSTEM NUMBER
- ⓐ DRAINAGE UNIT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	39	63
			1/30/15	DATE	
REGISTERED CIVIL ENGINEER			No. 63928		
PLANS APPROVAL DATE			3-16-15		
			Exp. 9-30-16		
			CIVIL		
<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>					

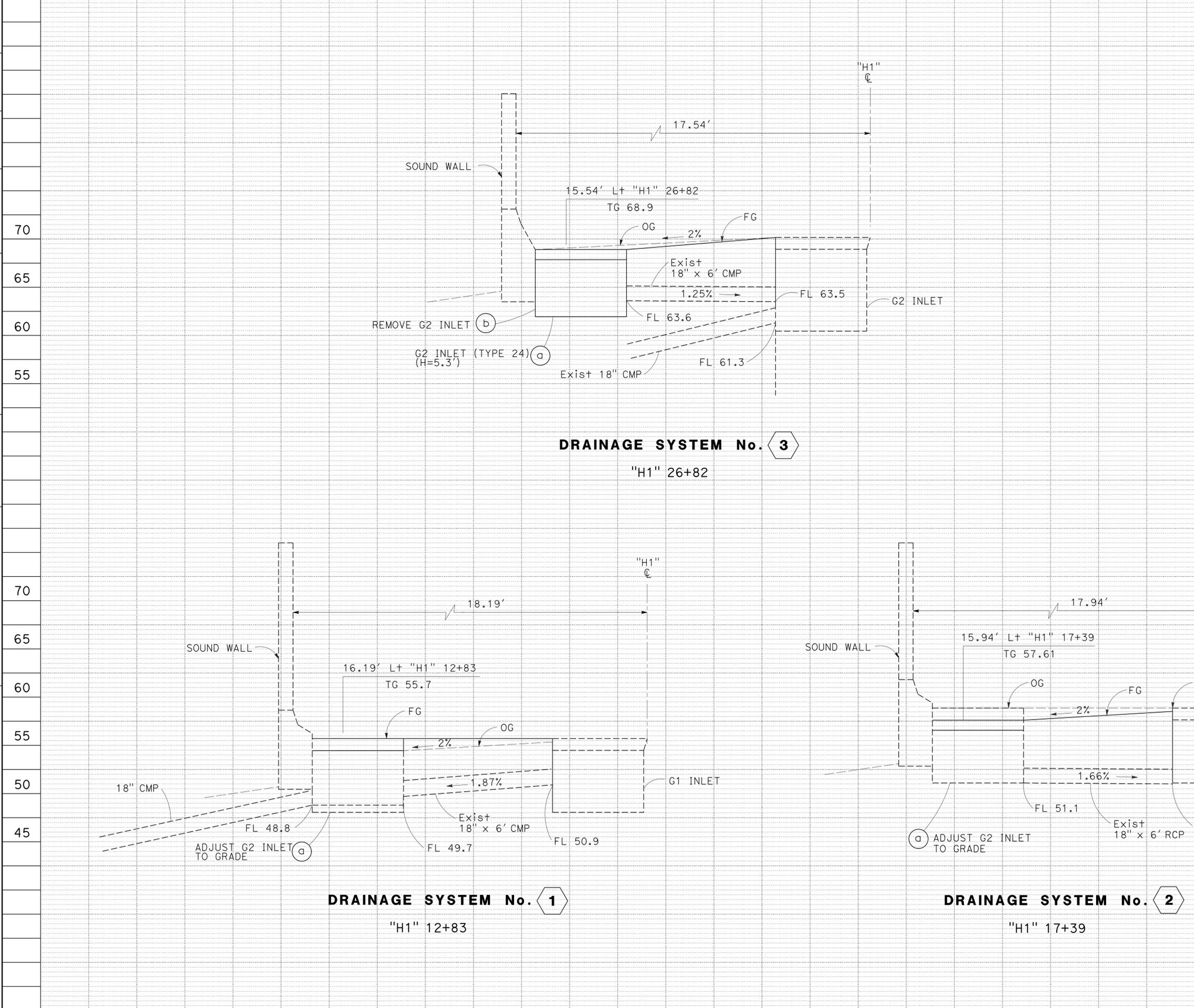


**DRAINAGE PLAN**  
 SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

**D-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 TAM LY  
 REYES BELTRAN  
 TUAN HUYNH  
 RB  
 2/19/15



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	40	63
			REGISTERED CIVIL ENGINEER	DATE	
			Tuan P. Huynh	1/30/15	
			No. 63928		
			Exp. 9-30-16		
			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.					

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	41	63

 1/30/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 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.

### DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No. <input type="checkbox"/>		HEIGHT OF INLET (N)	MINOR CONCRETE (MINOR STRUCTURE)	ADJUST INLET	REMOVE INLET	MISCELLANEOUS IRON AND STEEL	DESCRIPTION	STATION	DRAINAGE SYSTEM No. <input type="checkbox"/>	
	DRAINAGE UNIT	DRAINAGE UNIT								DRAINAGE UNIT	DRAINAGE UNIT
	FT	CY			EA	LB					
D-1	1	a	4.1		1			ADJUST INLET	16.19' Lt "H1" 12+83	1	a
D-1	2	a	3.9		1			ADJUST INLET	15.94' Lt "H1" 17+39	2	a
D-1	3	a	2.6	1		326		G2 INLET	15.54' Lt "H1" 26+82	3	a
D-1		b	2.6			1		REMOVE INLET	15.54' Lt "H1" 26+82		b
<b>TOTAL</b>				1	2	1	326				

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

## DRAINAGE QUANTITIES

**DQ-1**



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	42	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

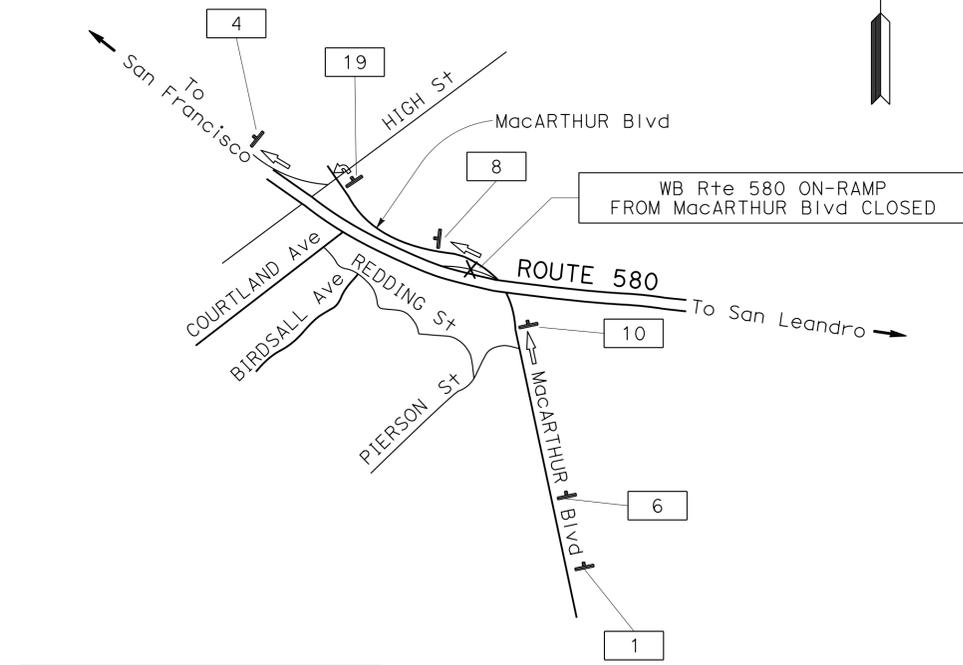
**LEGEND:**

- No. CONSTRUCTION AREA SIGN NUMBER
- X RAMP CLOSURE
- (S) DENOTES STATIONARY MOUNTED SIGN

**NOTES:**

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. DIMENSIONS FOR SIGN PANEL AND POST ARE IN INCHES.
3. LETTERING SIZES FOR SIGN PANEL ARE IN INCHES.

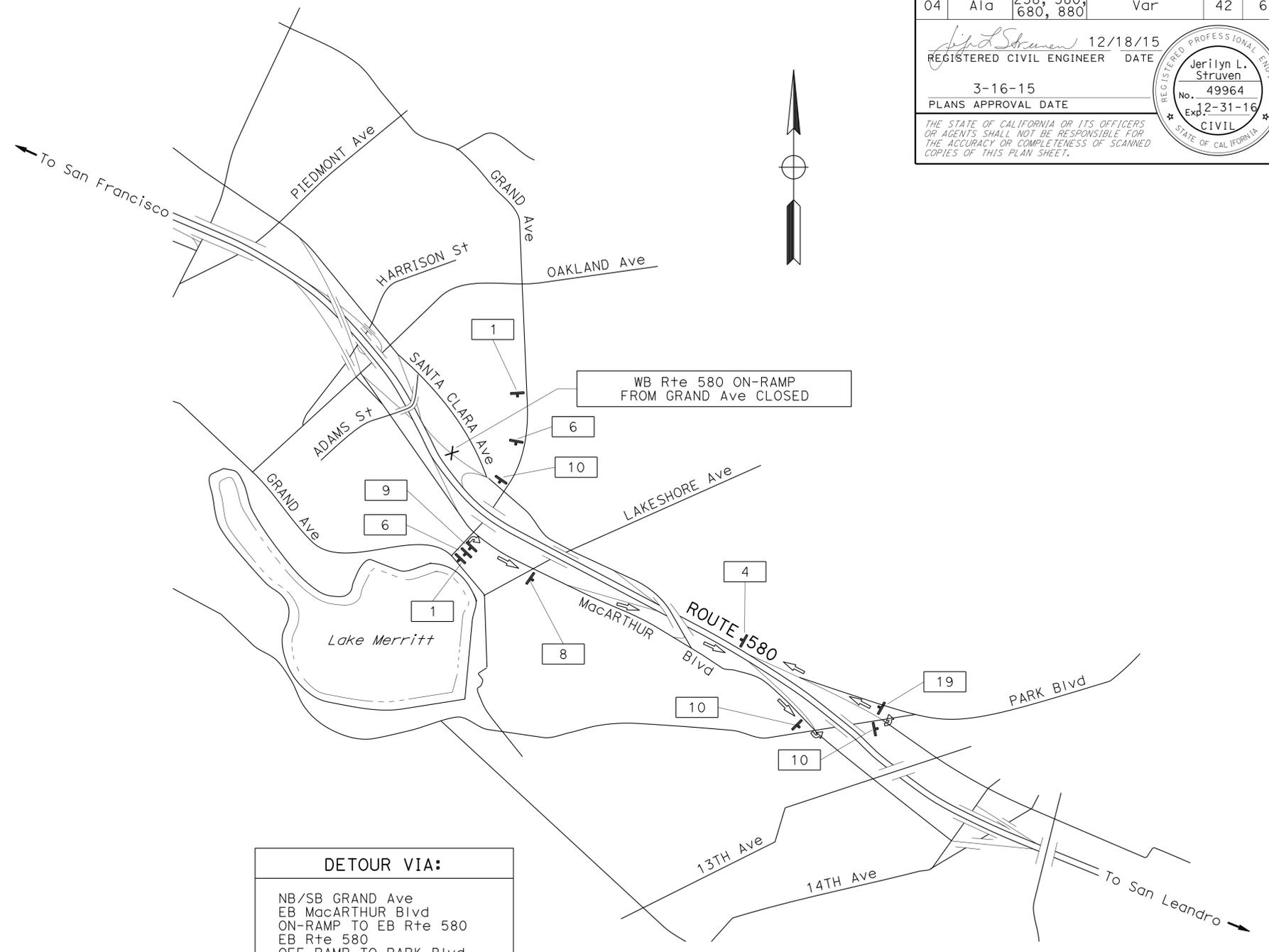
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY: SHARI TALAI  
 CHECKED BY: ROLAND AU-YEUNG  
 REVISED BY: ST  
 DATE REVISED: 12/16/15



**DETOUR VIA:**

NB MacARTHUR Blvd  
 WB HIGH St  
 ON-RAMP TO WB Rte 580

**DETOUR PLAN No. 1**  
 WB ROUTE 580 ON-RAMP FROM  
 MacARTHUR Blvd CLOSURE  
**LOCATION 2**



**DETOUR VIA:**

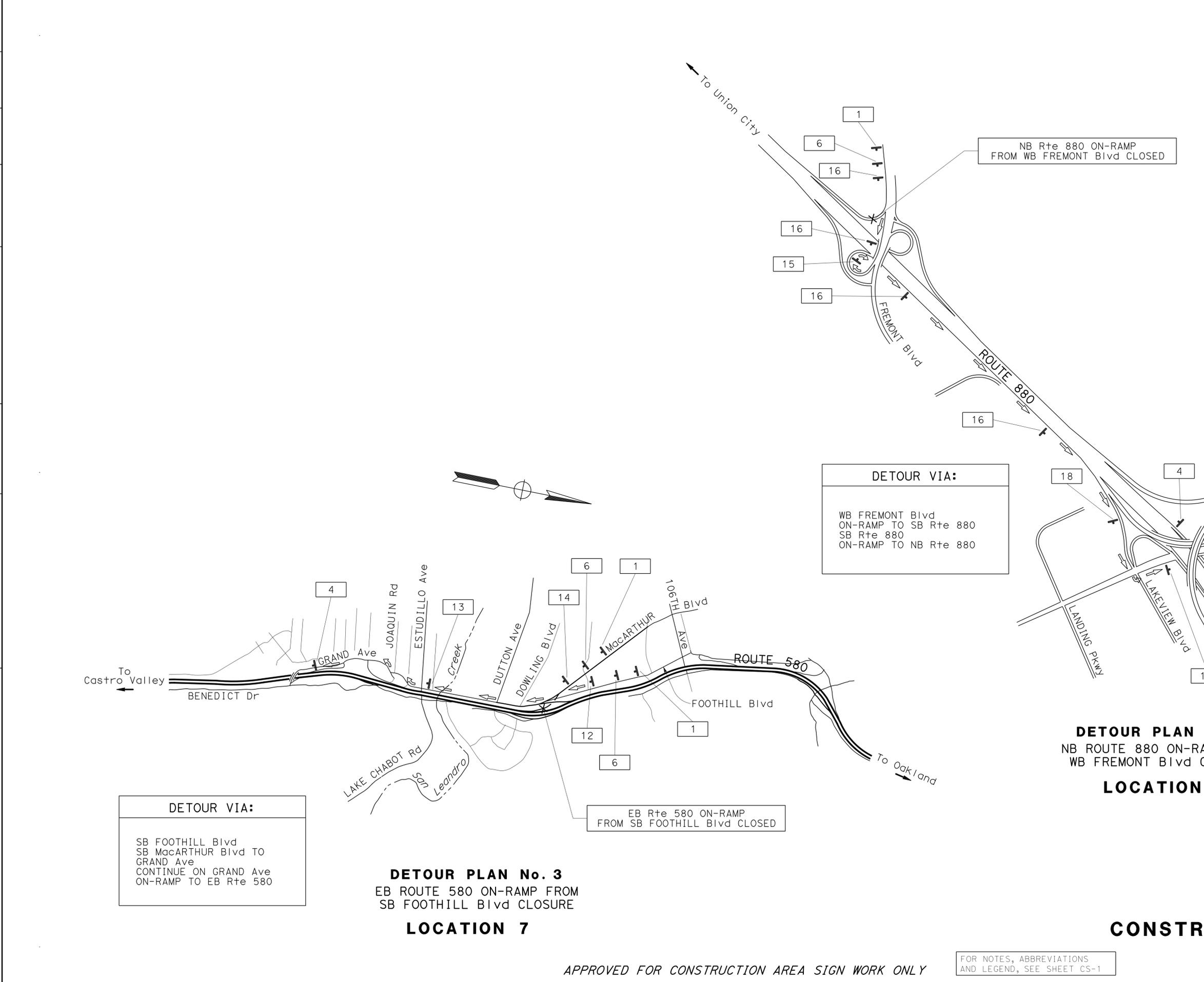
NB/SB GRAND Ave  
 EB MacARTHUR Blvd  
 ON-RAMP TO EB Rte 580  
 EB Rte 580  
 OFF-RAMP TO PARK Blvd  
 NB PARK Blvd  
 ON-RAMP TO WB Rte 580

**DETOUR PLAN No. 2**  
 WB ROUTE 580 ON-RAMP FROM  
 GRAND Ave CLOSURE  
**LOCATIONS 4 AND 5**

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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



**DETOUR VIA:**  
 SB FOOTHILL Blvd  
 SB MacARTHUR Blvd TO  
 GRAND Ave  
 CONTINUE ON GRAND Ave  
 ON-RAMP TO EB Rte 580

**DETOUR PLAN No. 3**  
 EB ROUTE 580 ON-RAMP FROM  
 SB FOOTHILL Blvd CLOSURE  
**LOCATION 7**

**DETOUR VIA:**  
 WB FREMONT Blvd  
 ON-RAMP TO SB Rte 880  
 SB Rte 880  
 ON-RAMP TO NB Rte 880

**DETOUR PLAN No. 4**  
 NB ROUTE 880 ON-RAMP FROM  
 WB FREMONT Blvd CLOSURE  
**LOCATION 9**

NB Rte 880 ON-RAMP  
 FROM WB FREMONT Blvd CLOSED

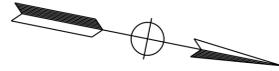
EB Rte 580 ON-RAMP  
 FROM SB FOOTHILL Blvd CLOSED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	43	63

12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

Jerilyn L. Struven  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

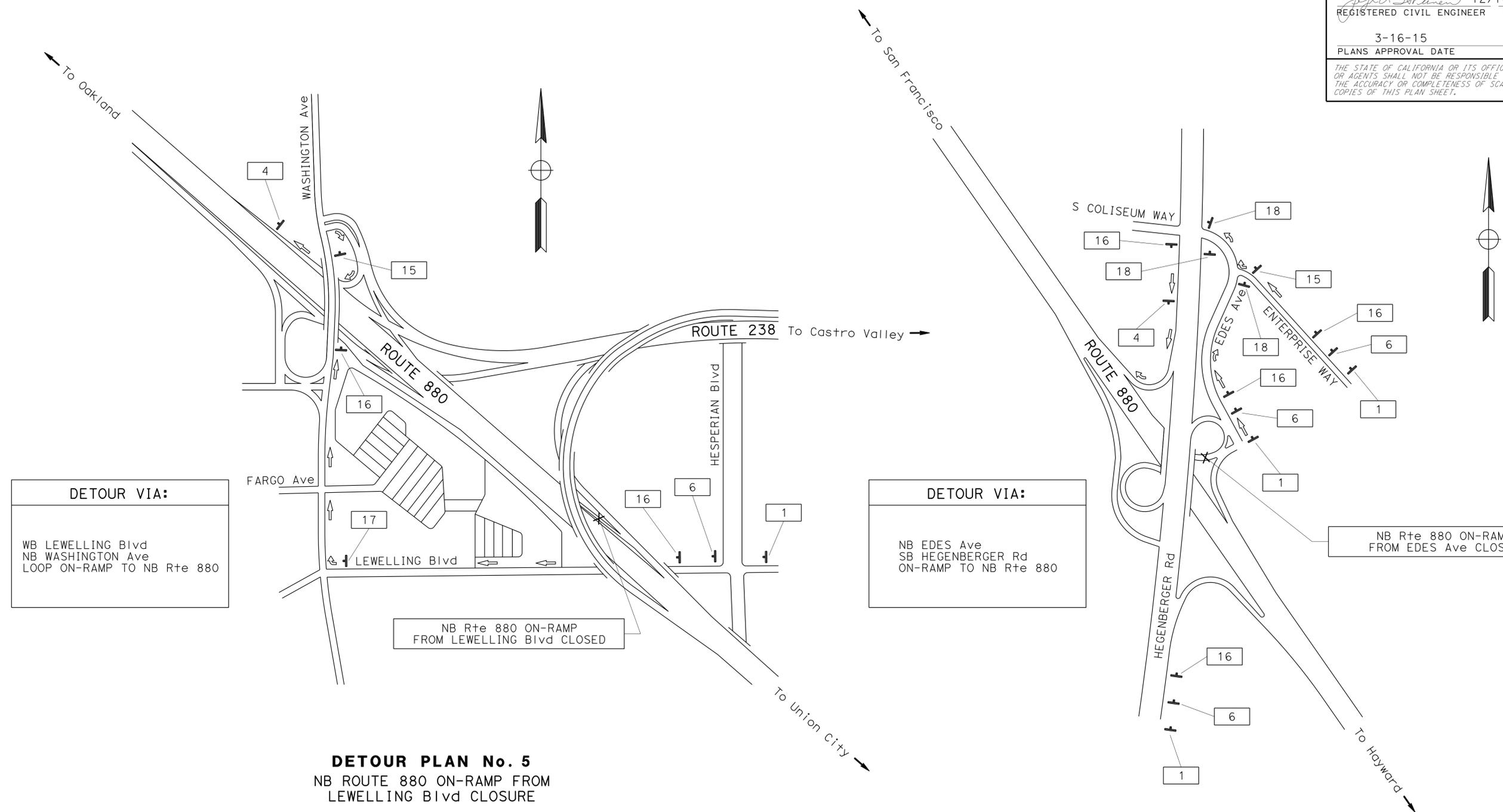
**CONSTRUCTION AREA SIGNS**  
 NO SCALE

**CS-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	44	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE  
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REGISTERED PROFESSIONAL ENGINEER  
 Jerilyn L. Struven  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA



**DETOUR VIA:**

WB LEWELLING Blvd  
 NB WASHINGTON Ave  
 LOOP ON-RAMP TO NB Rte 880

**DETOUR VIA:**

NB EDES Ave  
 SB HEGENBERGER Rd  
 ON-RAMP TO NB Rte 880

NB Rte 880 ON-RAMP FROM EDES Ave CLOSED

NB Rte 880 ON-RAMP FROM LEWELLING Blvd CLOSED

**DETOUR PLAN No. 5**  
 NB ROUTE 880 ON-RAMP FROM LEWELLING Blvd CLOSURE  
**LOCATION 4**

**DETOUR PLAN No. 6**  
 NB ROUTE 880 ON-RAMP FROM EDES Ave CLOSURE  
**LOCATION 15**

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

**CS-3**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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



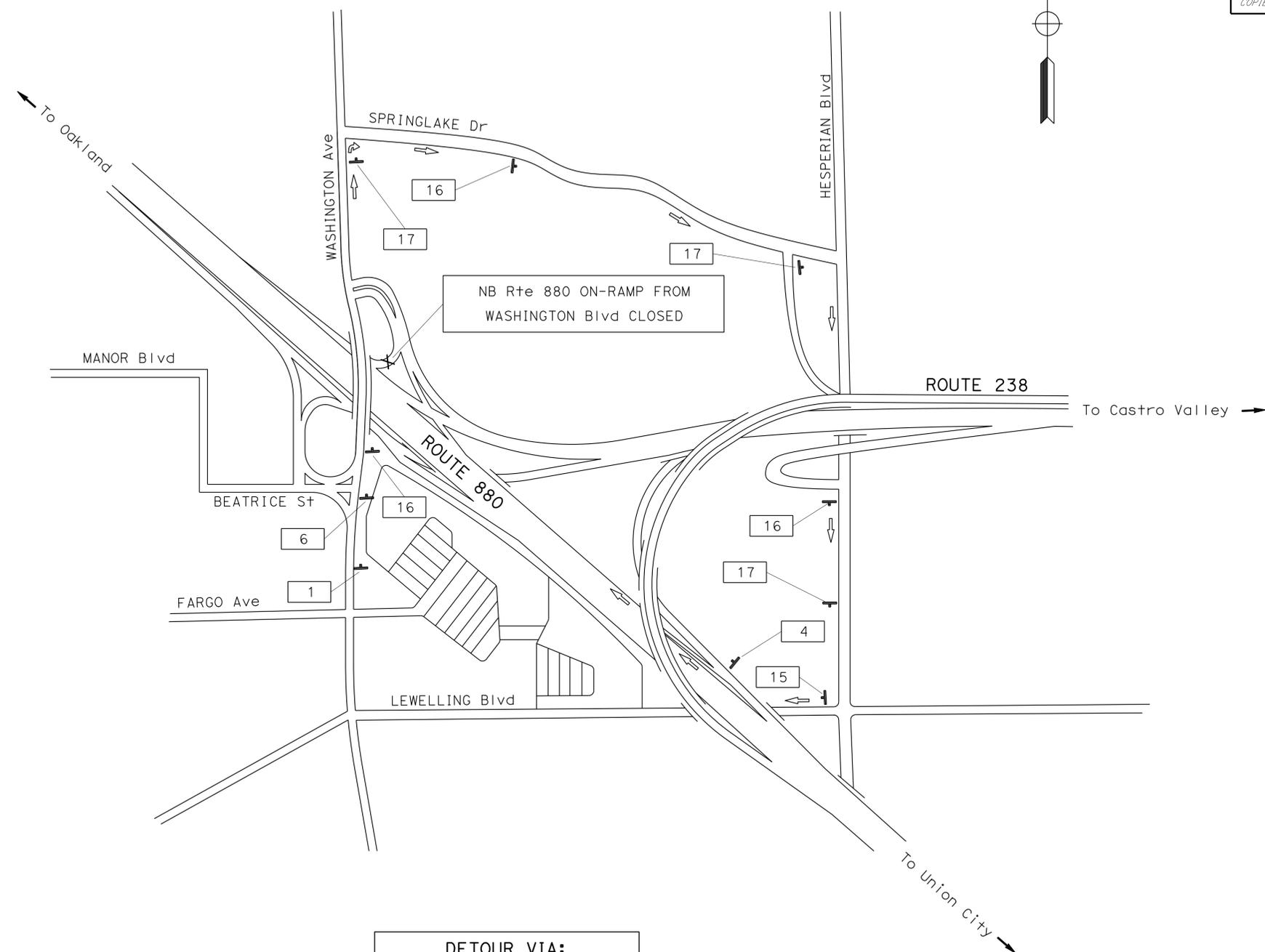
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	SHARI TALAI	REVISOR BY	ST
<b>Caltrans</b>	ROLAND AU-YEUNG	CHECKED BY	ROLAND AU-YEUNG	DATE REVISED	12/16/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	45	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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**DETOUR VIA:**  
 NB/SB WASHINGTON Ave  
 WB SPRINGLAKE Dr  
 SB HESPERIAN Blvd  
 WB LEWELLING Blvd  
 ON-RAMP TO NB Rte 880

**DETOUR PLAN No. 7**  
 NB ROUTE 880 ON-RAMP FROM  
 SB FOOTHILL Blvd CLOSURE

**LOCATION 17**

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

**CS-4**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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



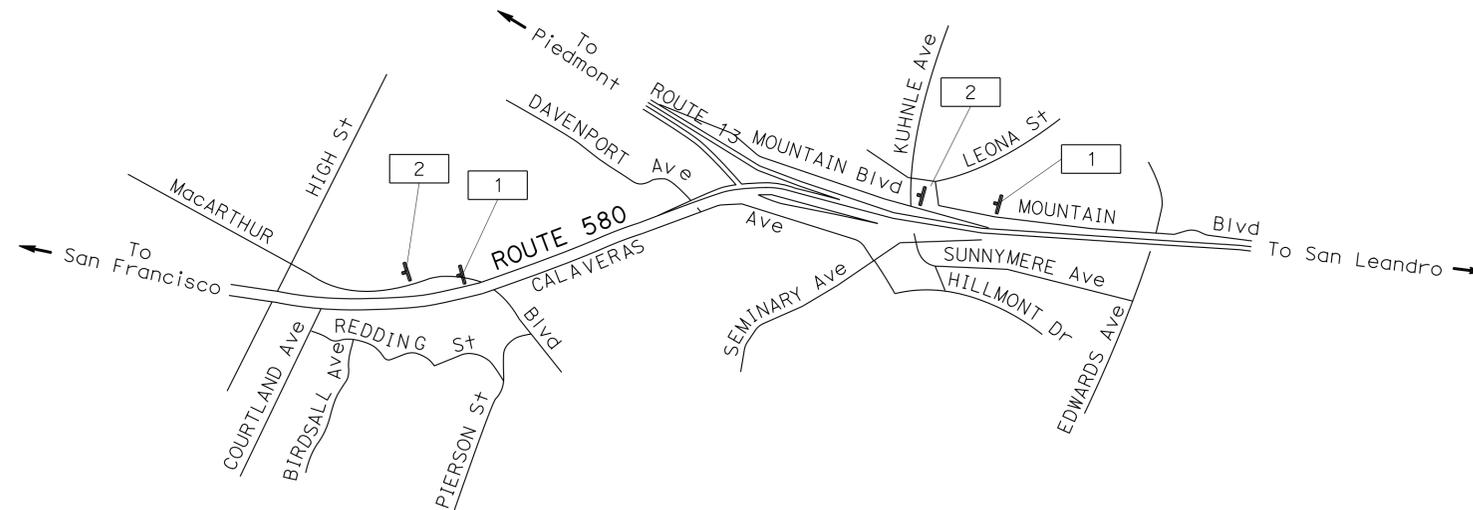
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b>	ROLAND AU-YEUNG	SHARI TALAI	12/16/15
TRAFFIC	CHECKED BY	ROLAND AU-YEUNG	
	DESIGNED BY		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	46	63

*J. L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA



**LOCATION 2**

**LOCATION 1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	SHARI TALAI	REVISED BY	ST
<b>Caltrans</b>	ROLAND AU-YEUNG	CHECKED BY	ROLAND AU-YEUNG	DATE REVISED	12/16/15
<b>TRAFFIC</b>					

**CONSTRUCTION AREA SIGNS**  
NO SCALE

**CS-5**

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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



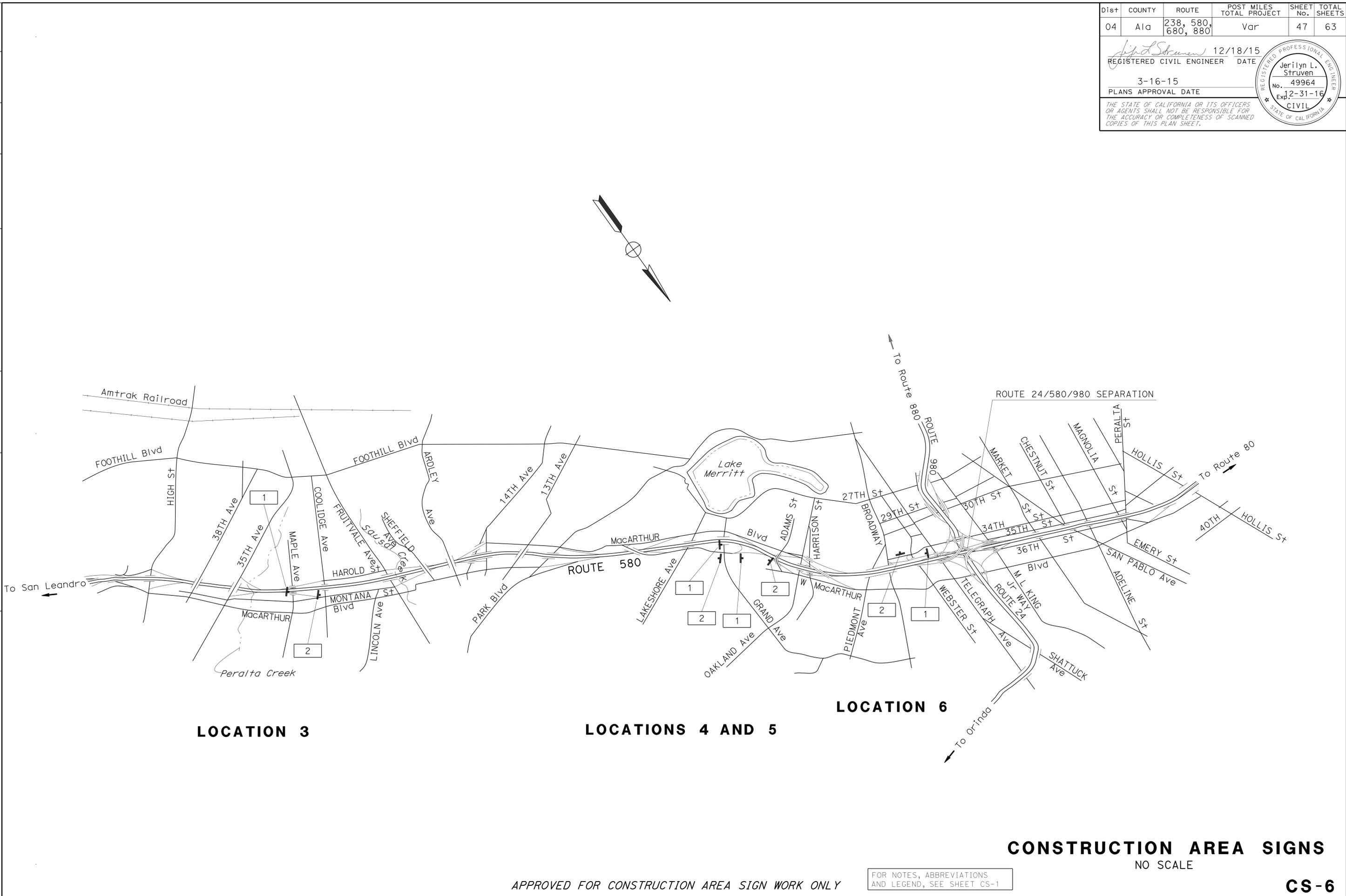
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	47	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 TRAFFIC  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY: SHARI TALAI  
 CHECKED BY: ROLAND AU-YEUNG  
 REVISED BY: ST  
 DATE REVISED: 12/16/15



**LOCATION 3**

**LOCATIONS 4 AND 5**

**LOCATION 6**

**CONSTRUCTION AREA SIGNS**  
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

**CS-6**

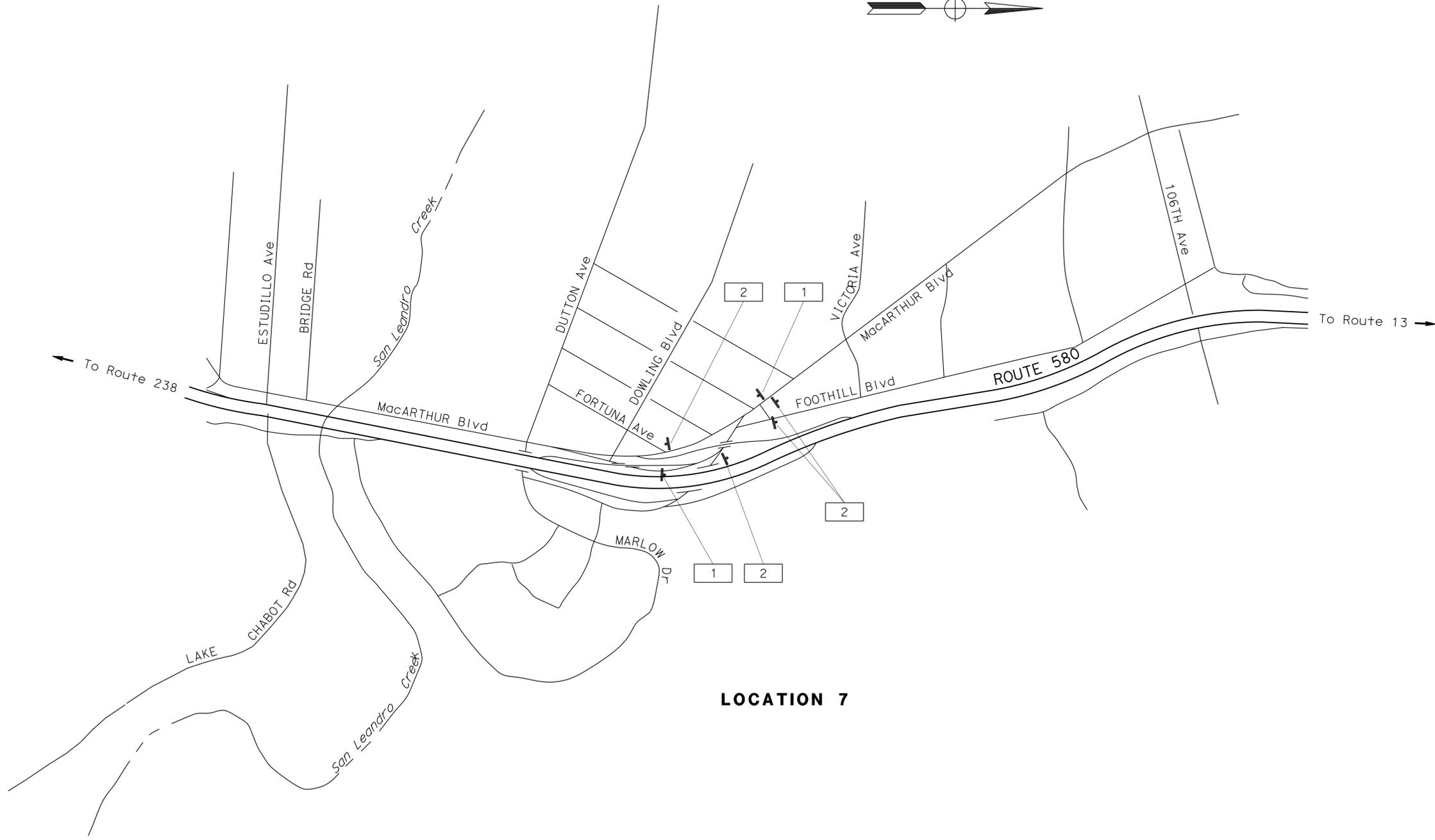
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY: SHARI TALAI  
 CHECKED BY: ROLAND AU-YEUNG  
 REVISED BY: ST  
 DATE REVISED: 12/16/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	48	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Jerilyn L. Struven  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA



**LOCATION 7**

**CONSTRUCTION AREA SIGNS**  
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

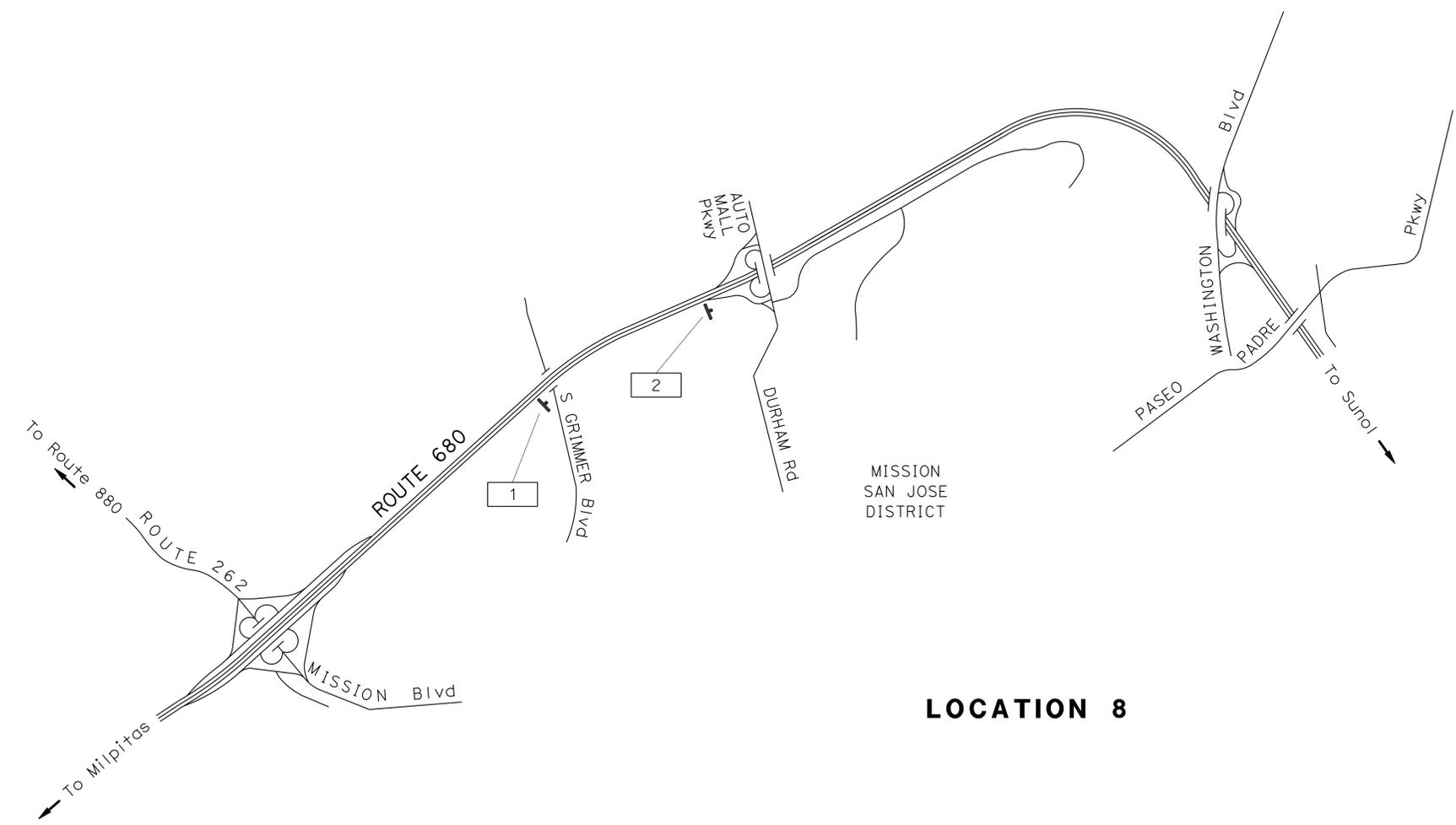
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

**CS-7**



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b>	FUNCTIONAL SUPERVISOR	ROLAND AU-YEUNG	CALCULATED/DESIGNED BY	SHARI TALAI	REVISOR	ST
	TRAFFIC	ROLAND AU-YEUNG	CHECKED BY	ROLAND AU-YEUNG	DATE	12/16/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	49	63
		REGISTERED CIVIL ENGINEER		DATE	
		12/18/15			
		3-16-15		PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



MISSION  
SAN JOSE  
DISTRICT

**LOCATION 8**

**CONSTRUCTION AREA SIGNS**  
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

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

**CS-8**





Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	52	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 Jerilyn L. Struven  
 No. 49964  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

### STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
1	W20-1		48" x 48"	ROAD WORK AHEAD	(ONE) - 4" x 6"	24
2	G20-2		48" x 48"	END ROAD WORK	(ONE) - 4" x 4"	11
4	G20-2		36" x 18"	END ROAD WORK	(ONE) - 4" x 4"	7
6	W20-2		48" x 48"	DETOUR AHEAD	(ONE) - 4" x 6"	10
8		SC-3 (↑)	48" x 18"	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) - 4" x 6"	2
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
		M3-4	21" x 9"	WEST		
9	M4-10 (R+)		48" x 18"	DETOUR (RIGHT)	(ONE) - 4" x 6"	1
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
		M3-4	21" x 9"	WEST		
10	M4-10 (L+)		48" x 18"	DETOUR (LEFT)	(ONE) - 4" x 6"	3
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
		M3-4	21" x 9"	WEST		
12		SC-3 (↑)	48" x 18"	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) - 4" x 6"	1
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
		M3-2	21" x 9"	EAST		
13	M4-8		21" x 9"	DETOUR	(ONE) - 4" x 6"	1
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
		M3-2	21" x 9"	EAST		
14	M6-2 (↗)		21" x 15"	DETOUR (DIAGONAL ARROW)	(ONE) - 4" x 6"	1
	M4-10 (R+)		48" x 18"	DETOUR (RIGHT)		
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
		M3-2	21" x 9"	EAST		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG  
 CHECKED BY: SHARI TALAI  
 DESIGNED BY: ROLAND AU-YEUNG  
 REVISIONS: ST 12/16/15

## CONSTRUCTION AREA SIGNS

**CS-11**

LAST REVISION DATE PLOTTED => 01-APR-2015 12-16-15 TIME PLOTTED => 14:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	53	63

*Jerilyn L. Struven* 12/18/15  
 REGISTERED CIVIL ENGINEER DATE  
 3-16-15  
 PLANS APPROVAL DATE

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**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (CONTINUATION)**

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
15	M4-8		21" x 9"	DETOUR	(ONE) - 4" x 6"	6
		G27-2 (880)	24" x 25"	ROUTE SHIELD		
	M3-1		21" x 9"	NORTH		
	M6-2 (↗)		21" x 15"	DETOUR (DIAGONAL ARROW)		
16		SC-3 (↑)	48" x 18"	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) - 4" x 6"	16
		G27-2 (880)	30" x 25"	ROUTE SHIELD		
	M3-1		21" x 9"	NORTH		
17	M4-10 (R+)		48" x 18"	DETOUR (RIGHT)	(ONE) - 4" x 6"	5
		G27-2 (880)	30" x 25"	ROUTE SHIELD		
	M3-1		21" x 9"	NORTH		
18	M4-10 (L+)		48" x 18"	DETOUR (LEFT)	(ONE) - 4" x 6"	3
		G27-2 (880)	24" x 25"	ROUTE SHIELD		
	M3-1		21" x 9"	NORTH		
19	M4-8		21" x 9"	DETOUR	(ONE) - 4" x 6"	3
		G27-2 (580)	30" x 25"	ROUTE SHIELD		
	M3-4		21" x 9"	WEST		
	M6-2 (↗)		21" x 15"	DETOUR (DIAGONAL ARROW)		
<b>TOTAL</b>						<b>95</b>

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 TRAFFIC  
 FUNCTIONAL SUPERVISOR  
 ROLAND AU-YEUNG  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 SHARI TALAI  
 ROLAND AU-YEUNG  
 REVISED BY  
 DATE REVISED  
 ST  
 12/16/15

**CONSTRUCTION AREA SIGNS**

**CS-12**

LAST REVISION | DATE PLOTTED => 01-APR-2015  
 12-16-15 | TIME PLOTTED => 14:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	54	63

REGISTERED CIVIL ENGINEER: Tuan P. Huynh  
 No. 63928  
 Exp. 9-30-16  
 CIVIL  
 DATE: 3/5/15  
 PLANS APPROVAL DATE: 3-16-15

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

**ROADWAY QUANTITIES**

SHEET No.	STATION	LOCATION No.	REMOVE CURB	HMA (TYPE A)	PRIME COAT	ADJUST FRAME COVER TO GRADE	RELOCATE ROADSIGN SIGN	ADJUST UTILITY COVER TO GRADE	ROADWAY EXCAVATION (TYPE Z-3) (AERIALY DEPOSITED LEAD)	ROADWAY EXCAVATION (TYPE HC)	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	CLASS 2 AGGREGATE BASE	MINOR CONCRETE (TEXTURED PAVING)
			LF	TON	EA	EA	EA	EA	EA	EA	EA	EA	EA
L-1	8.9' L+ "A1" 2+89.95	1		15	.01						40	28	
L-2	7.9' L+ "B1" 3+02.14	2		15	.01						40	28	
L-3	9.8' L+ "C1" 3+35	3		15	.01		1	1			40	28	
L-4	9.2' L+ "D1" 4+31.87	4	85	15	.01						40	28	
L-5	9.6' L+ "E1" 2+54.9	5	83	15	.01						40	28	
L-6	12.7' Rt "F1" 0+99.9	6	141	22	.01						40	42	
L-7	15.8' L+ "G1" 0+65	7				1		3			70	46	23
L-7	14' Rt "G1" 1+34	7									150	105	51
L-8	12' L+ "H1" 1+61	8		232	.14					391		288	
L-9	29.4' L+ "I1" 12+30.18	9						2		45		30	15
L-9	12' Rt "J1" 2+57.97	9								18		12	6
L-10	14.2' Rt "K1" 0+42	10						1		64		43	21
L-10	12' Rt "M1" 1+62.8	10								125		83	42
L-10	12' Rt "N1" 0+47	10						3		146		97	49
L-10	12' Rt "L1" 2+49	10								20		13	7
L-11	12.5' L+ "P1" 1+21	11						6			55	48	25
L-12	17.6' L+ "Q1" 1+37.1	12								15		10	5
L-12	12' L+ "R1" 1+62	12						1		47		31	16
L-13	12.1' L+ "S1" 1+40	13						1		33		22	11
L-14	12' Rt "T1" 3+11	14									26	18	9
L-15	9.5' L+ "U2" +1.90	15							11			8	4
L-15	4.9' Rt "U1" +89.36	15						1	24			16	8
L-16	24.5' L+ "V1" 1+67.3	16							50			32	16
L-16	12' Rt "W1" 1+70	16							35			21	11
L-17	12' L+ "Y1" 2+99	17						2			65	40	22
TOTAL			309	329	.20	1	1	21	120	904	606	1145	341

**TEMPORARY RAILING (TYPE K)**

SHEET No.	STATION	LOCATION No.	TEMPORARY RAILING (TYPE K)
			LF
L-10	50' L+ "K1" 3+40 TO 8' L+ "K1" 2+00	10	140
L-10	16' Rt "M1" 2+00 TO 45' Rt "M1" 4+00	10	200
L-10	1' Rt "N1" 0+40 TO 1' Rt "N1" 2+60	10	220
L-10	30' Rt "L1" 1+80 TO 7' Rt "L1" 3+00	10	120
TOTAL			680

**TEMPORARY CRASH CUSHION**

SHEET No.	STATION	TEMPORARY CRASH CUSHION MODULE	
		ARRAY 'TU11'	ARRAY 'TU14'
L-10	50' L+ "K1" 3+40	11	
L-10	11' L+ "M1" 2+10		14
L-10	5' Rt "N1" 2+70		14
L-10	30' Rt "L1" 1+76	11	
TOTAL		22	28

**SUMMARY OF QUANTITIES**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238,580, 680,880	Var	55	63

*Sally Bang*  
 LICENSED LANDSCAPE ARCHITECT

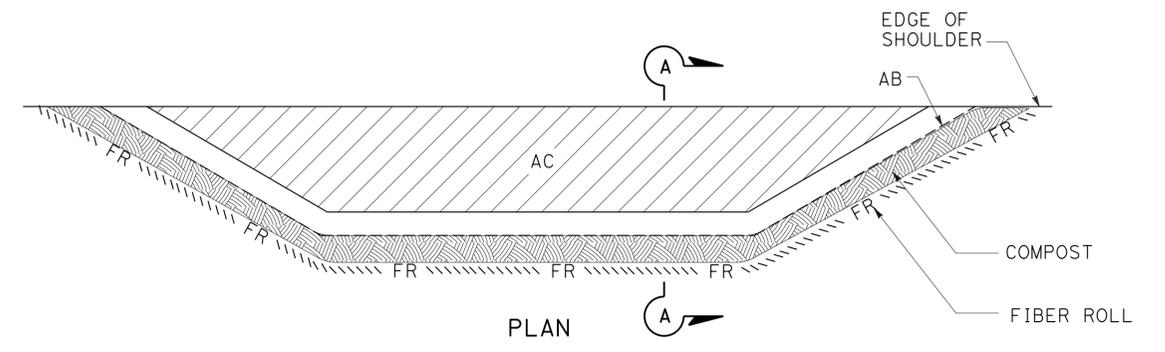
3-16-15  
 PLANS APPROVAL DATE

11-30-15  
 Renewal Date  
 1-30-15  
 Date

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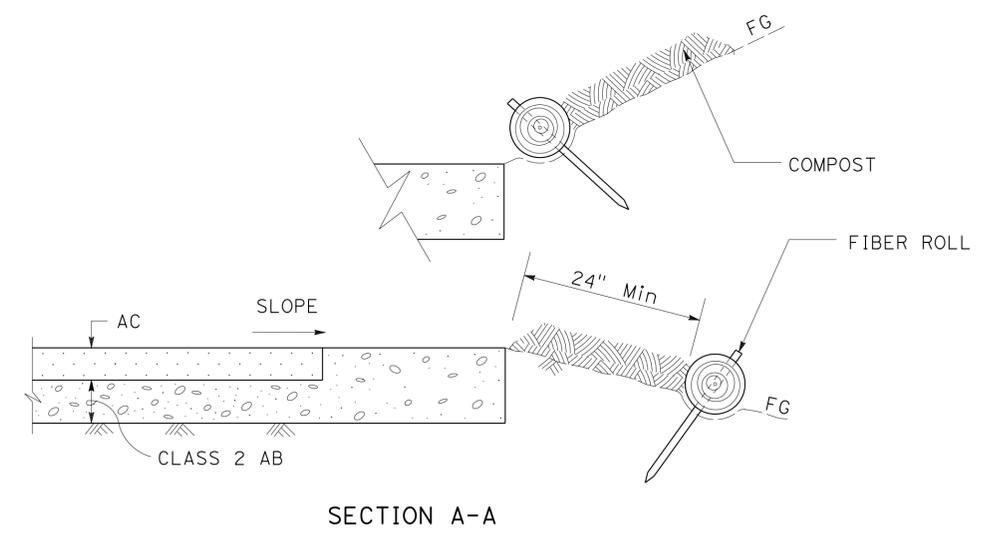
**EROSION CONTROL SEQUENCE**

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	FIBER ROLLS	FIBER ROLL	8 TO 10 INCHES IN Dia	-	-	RICE STRAW FILLED, JUTE COVERED AND INSTALLATION TYPE 1
STEP 2	COMPOST	COMPOST	COARSE	404 CY/ACRE	3"	MAY BE SUBSTITUTED WITH TREE TRIMMING WOOD MULCH



**EROSION CONTROL QUANTITIES**

LOCATION	DESCRIPTION	FIBER ROLLS	COMPOST
		LF	SQFT
1	SEMINARY Ave OFF-RAMP	95	185
2	MacARTHUR Blvd ON-RAMP	95	285
3	COOLIDGE Ave OFF-RAMP	95	210
4	GRAND Ave OFF-RAMP	140	475
5	GRAND Ave ON-RAMP	105	775
6	WEBSTER Street ON-RAMP	105	495
TOTAL		635	2425



**EROSION CONTROL AT MAINTENANCE VEHICLE PULLOUT LOCATIONS, TYPICAL**

**EROSION CONTROL DETAILS AND QUANTITIES**

NO SCALE

**ECD-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION WATER QUALITY  
 SENIOR LANDSCAPE ARCHITECT DAVID YAM  
 CALCULATED/DESIGNED BY CHECKED BY  
 SALLY BANG ANGELA KWAN  
 REVISED BY DATE REVISED  
 SB 1/30/15

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

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

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

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	56	63

*Grace M. Tsushima*  
REGISTERED CIVIL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 3-16-15

**UNIT OF MEASUREMENT SYMBOLS:**

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

**TABLE A**

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

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

**TABLE B**

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

\* For use on a sign panel only

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS  
(SHEET 2 OF 2)**

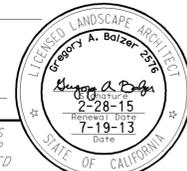
NO SCALE

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

2010 REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	57	63

*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 2013  
 PLANS APPROVAL DATE  
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TO ACCOMPANY PLANS DATED 3-16-15

**A**

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

**B**

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

**C**

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

**D**

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

**E**

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

**F**

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

**G**

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

**H**

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

**I**

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

**L**

L LENGTH

**M**

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

**N**

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

**O**

O/C ON CENTER  
 OD OUTSIDE DIAMETER  
 OL OVERLAP

**P**

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

**Q**

Q QUARTER CIRCLE  
 QCV QUICK COUPLING VALVE

**R**

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

**S**

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

**T**

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

**U**

UG UNDERGROUND

**W**

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

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

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

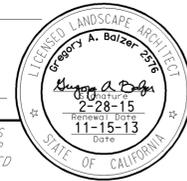
RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1  
 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP H1**

2010 REVISED STANDARD PLAN RSP H1

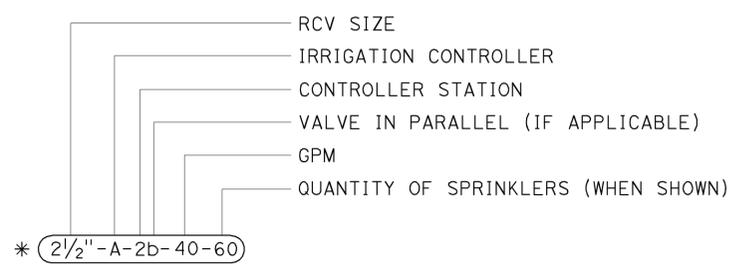
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	58	63

  
 LICENSED LANDSCAPE ARCHITECT  
 November 15, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

  
 TO ACCOMPANY PLANS DATED 3-16-15

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

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



**VALVE CODE**

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

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

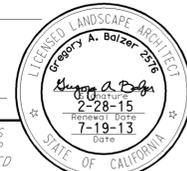
**REVISED STANDARD PLAN RSP H2**

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

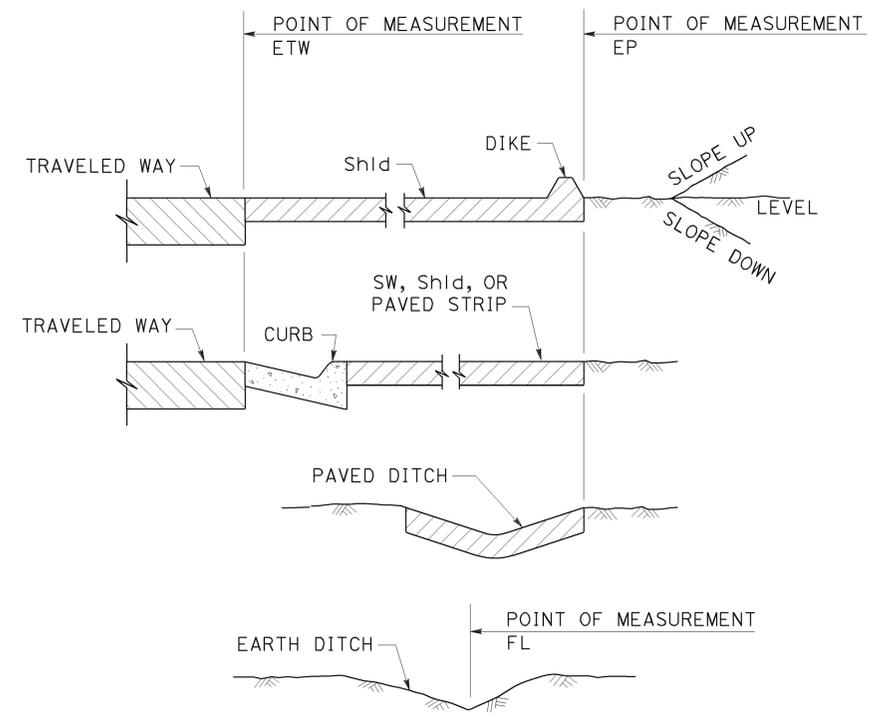
2010 REVISED STANDARD PLAN RSP H2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	59	63

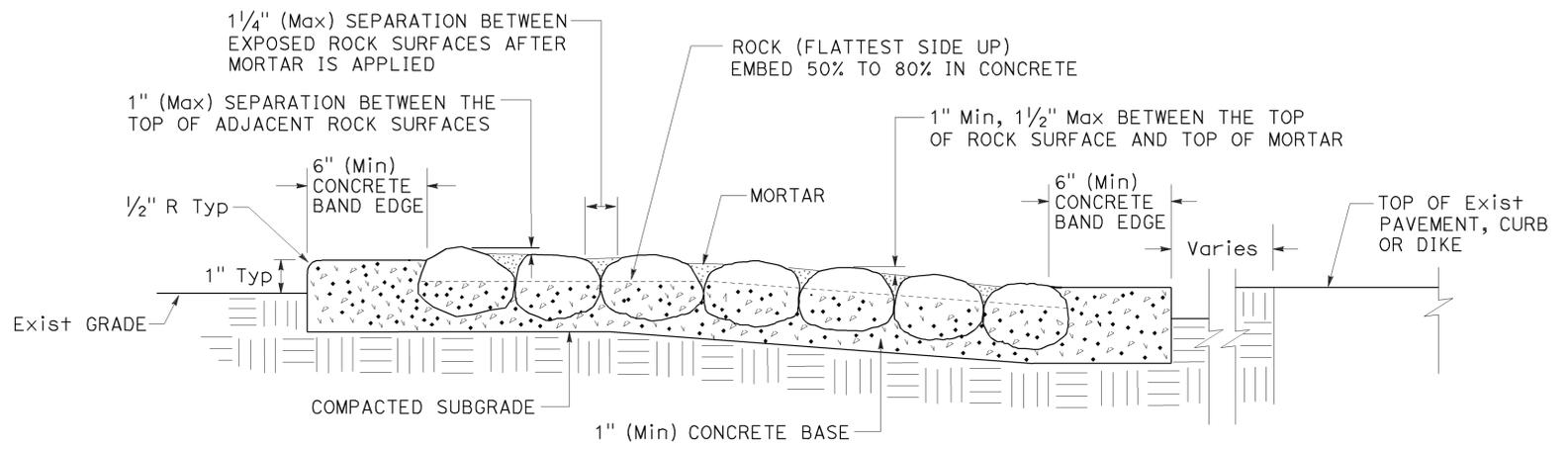
*Gregory A. Balzer*  
 LICENSED LANDSCAPE ARCHITECT  
 July 19, 2013  
 PLANS APPROVAL DATE  
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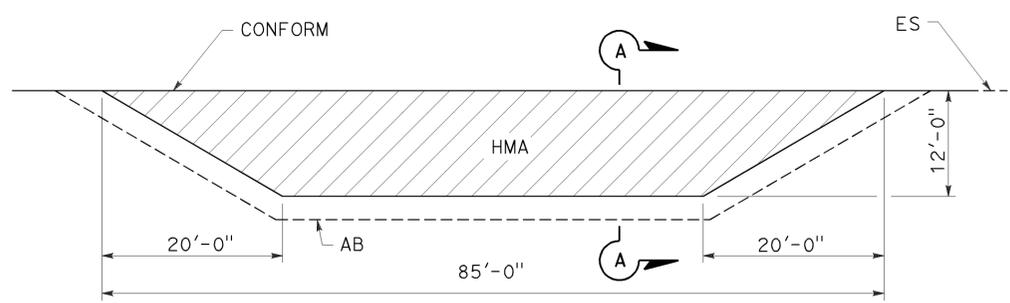
TO ACCOMPANY PLANS DATED 3-16-15



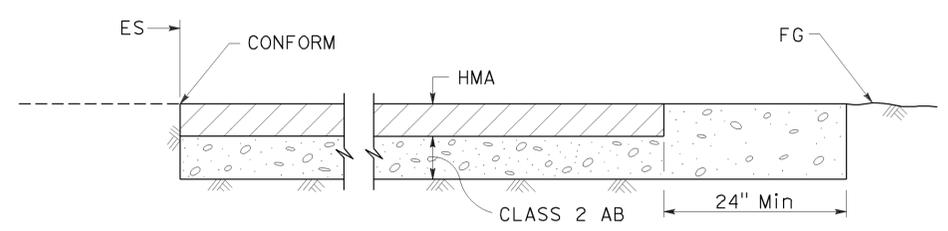
**SECTION POINTS OF MEASUREMENT**



**SECTION ROCK BLANKET**



**PLAN**



**SECTION A-A MAINTENANCE VEHICLE PULLOUT**

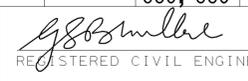
STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**LANDSCAPE DETAILS**  
 NO SCALE

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

**REVISED STANDARD PLAN RSP H9A**

2010 REVISED STANDARD PLAN RSP H9A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	60	63

  
 REGISTERED CIVIL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 3-16-15

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM TABLES  
 FOR LANE AND RAMP CLOSURES**

NO SCALE

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

**REVISED STANDARD PLAN RSP T9**

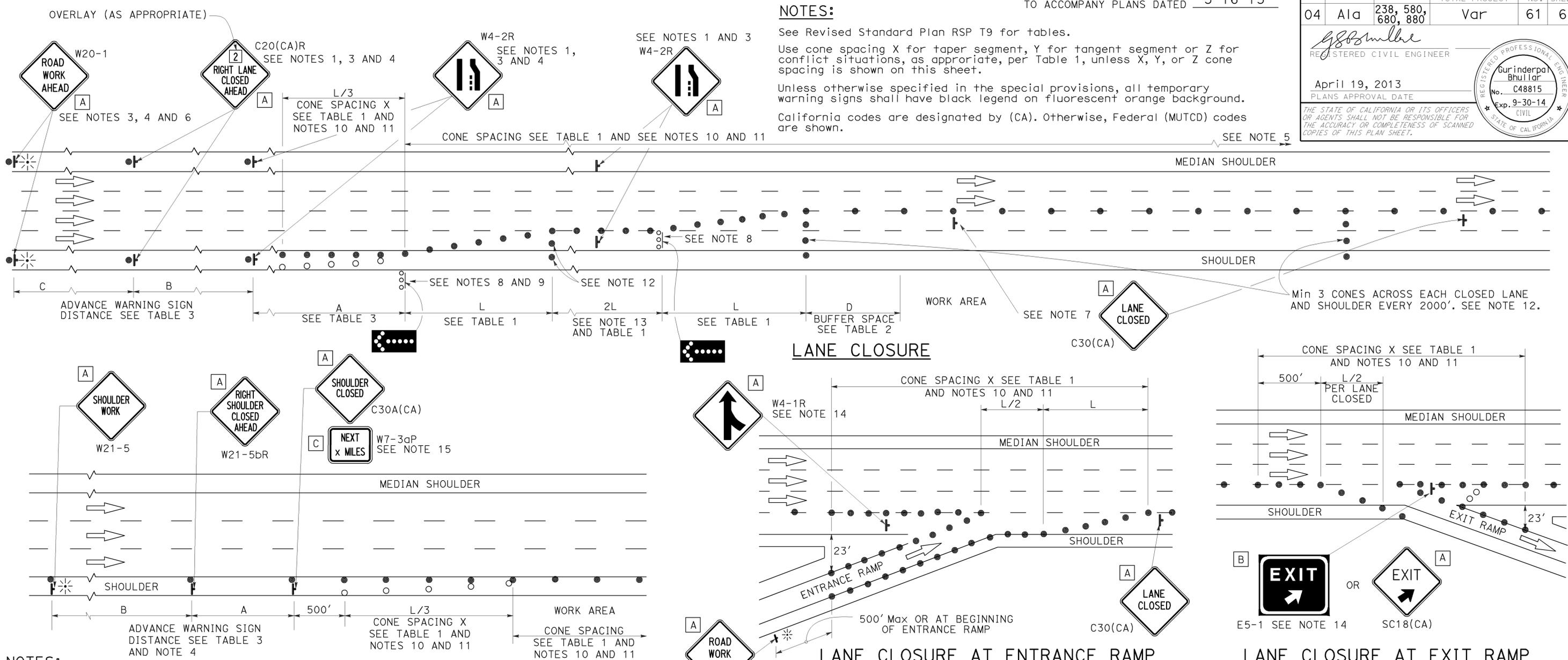
2010 REVISED STANDARD PLAN RSP T9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	61	63

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

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

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



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

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

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

**LEGEND**

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

**SIGN PANEL SIZE (Min)**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T10**

2010 REVISED STANDARD PLAN RSP T10

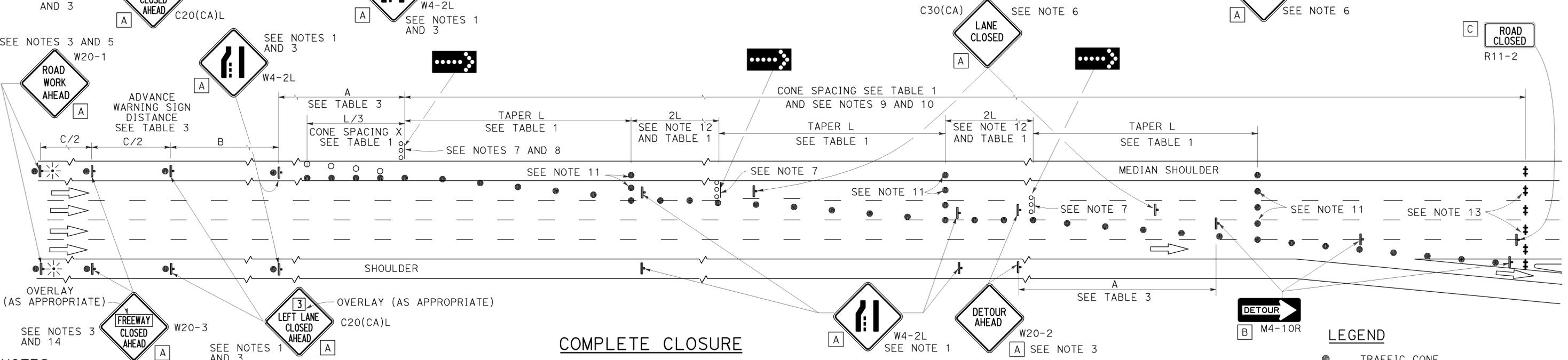
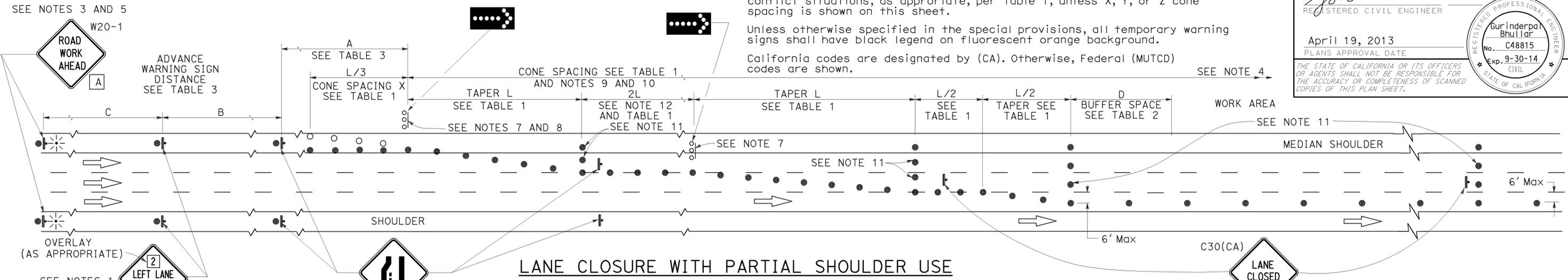
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	62	63

REGISTERED CIVIL ENGINEER  
 April 19, 2013  
 PLANS APPROVAL DATE

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

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

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



- NOTES:**
- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
  - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
  - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" X 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
  - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
  - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT \_\_\_ MILES", use a C20(CA) sign for the first advance warning sign.
  - Place a C30(CA) sign every 2000' throughout length of lane closure.

- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

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

**SIGN PANEL SIZE (Min)**

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

**LEGEND**

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

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T10A**

2010 REVISED STANDARD PLAN RSP T10A

# TYPICAL RAMP CLOSURES

## SIGN PANEL SIZE (Min)

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

## LEGEND

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	238, 580, 680, 880	Var	63	63

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

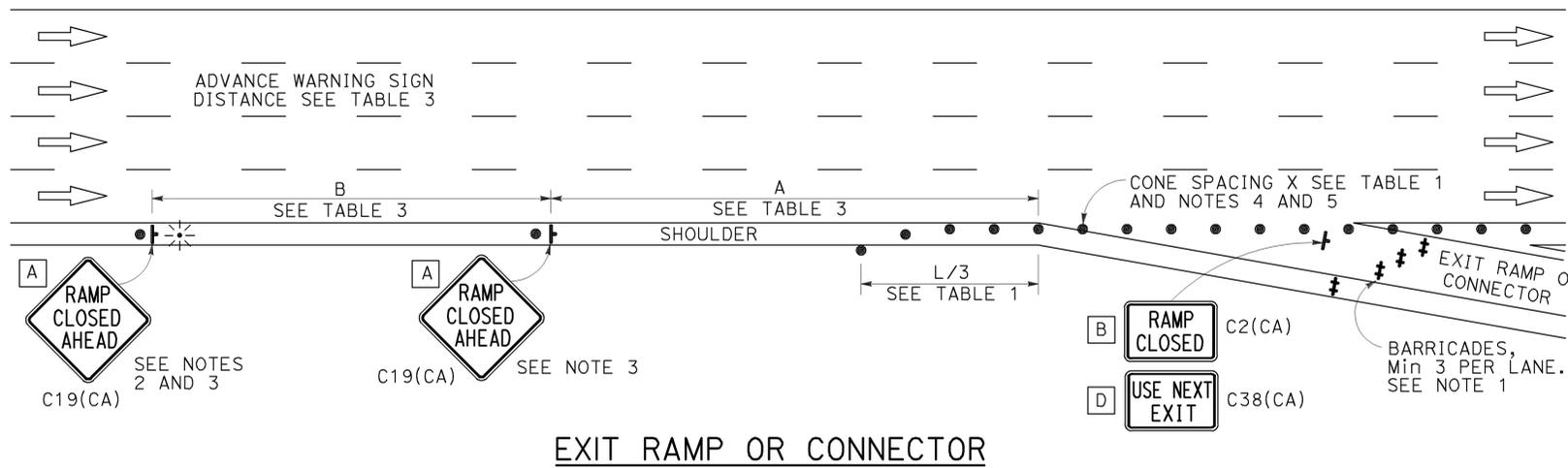
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

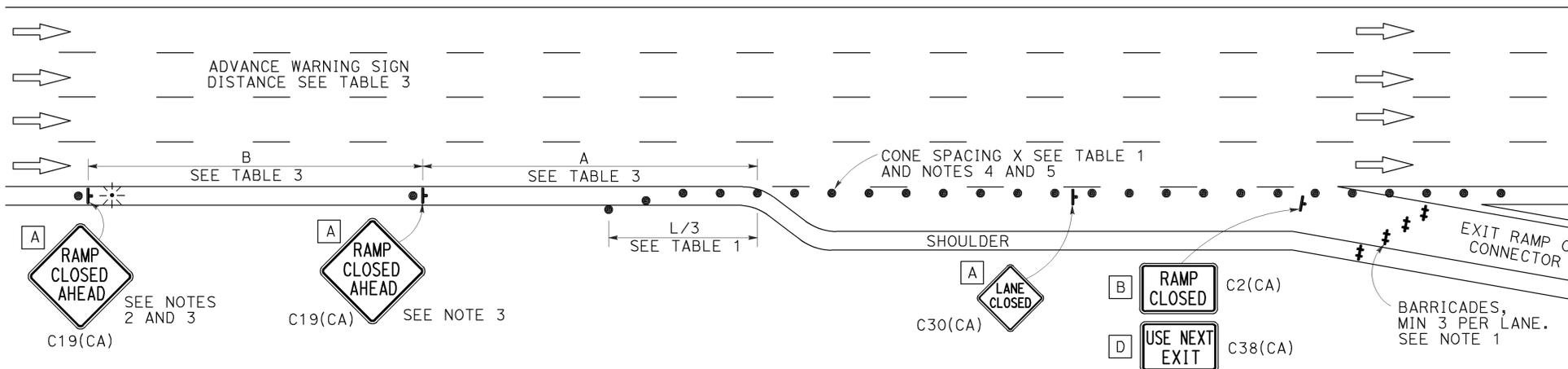
TO ACCOMPANY PLANS DATED 3-16-15

## NOTES:

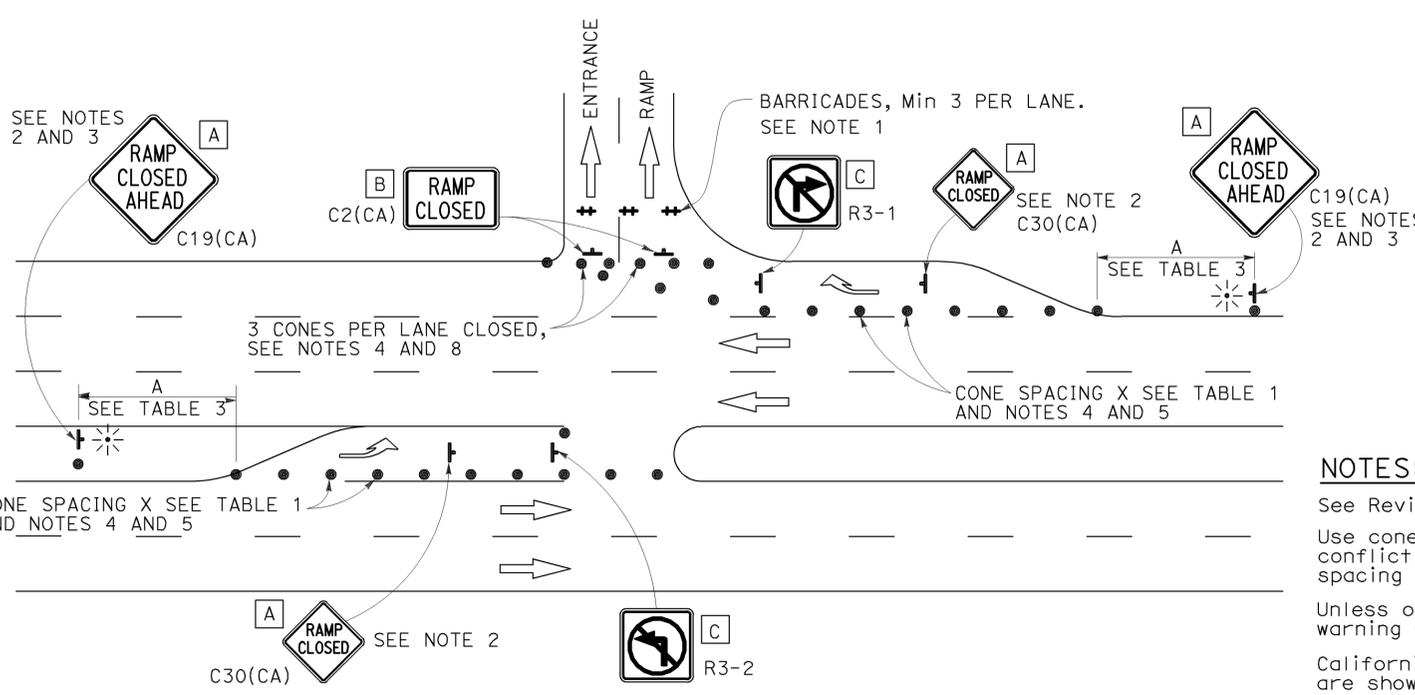
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed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



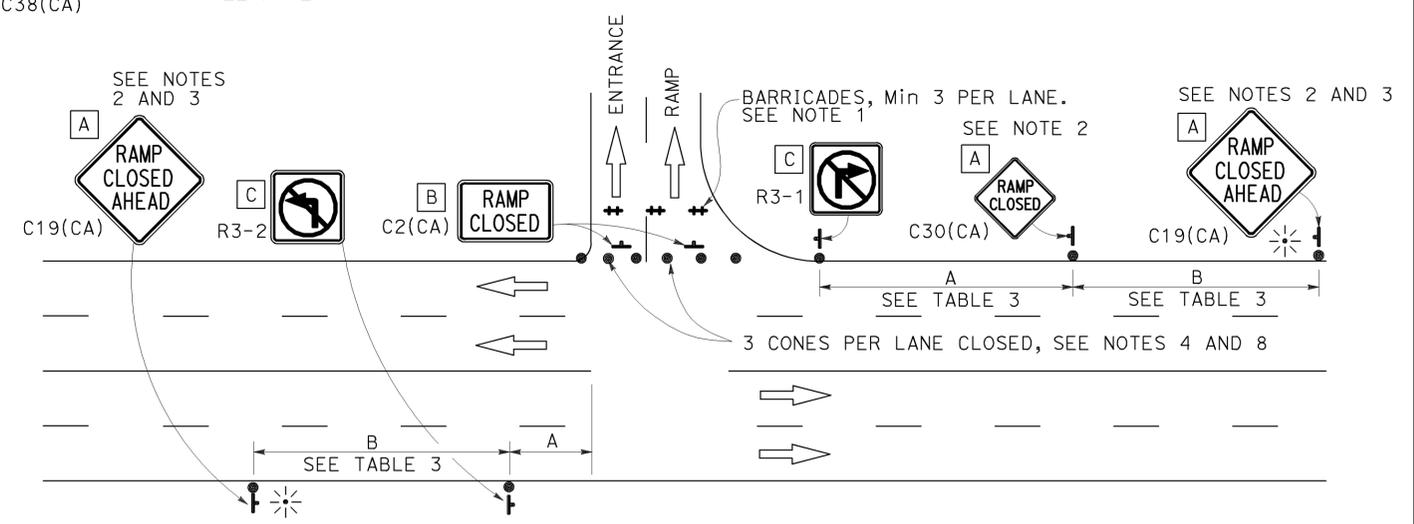
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

## NOTES:

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

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

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

2010 REVISED STANDARD PLAN RSP T14