

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	1	38

INDEX OF PLANS

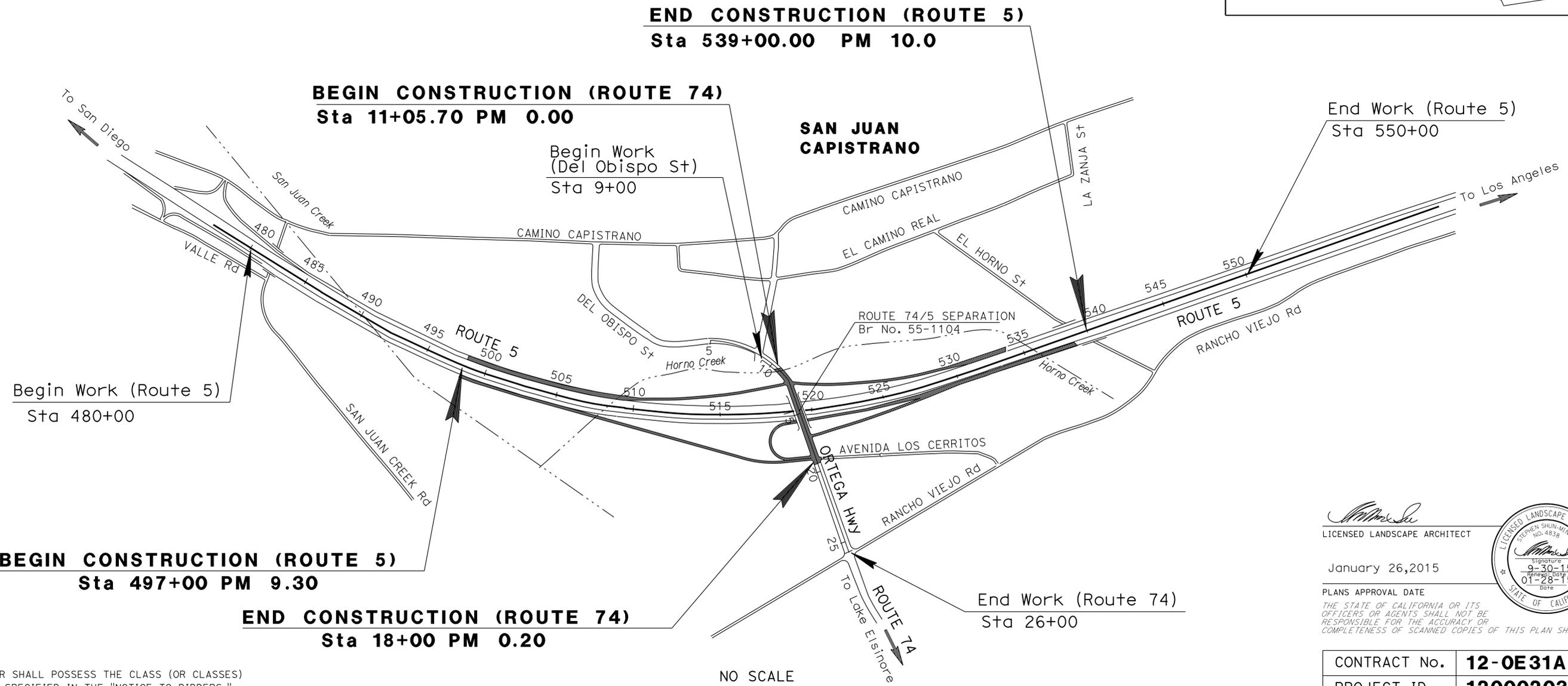
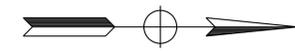
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	KEY MAP
3	TEMPORARY WATER POLLUTION CONTROL QUANTITIES
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8	CONSTRUCTION AREA SIGNS
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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN SAN JUAN CAPISTRANO
ON ROUTE 5 FROM 0.5 MILE SOUTH
TO 0.5 MILE NORTH OF ROUTE 5/74 SEPARATION AND
ON ROUTE 74 FROM 0.1 MILE WEST
TO 0.1 MILE EAST OF ROUTE 5/74 SEPARATION**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

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



PROJECT MANAGER
STEPHEN SU
DESIGN MANAGER
ERIC DICKSON

Signature
LICENSED LANDSCAPE ARCHITECT
STEPHEN SHUN-MIN SU
NO. 4838
Signature
9-30-15
Date
01-28-15
STATE OF CALIFORNIA

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

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

NO SCALE

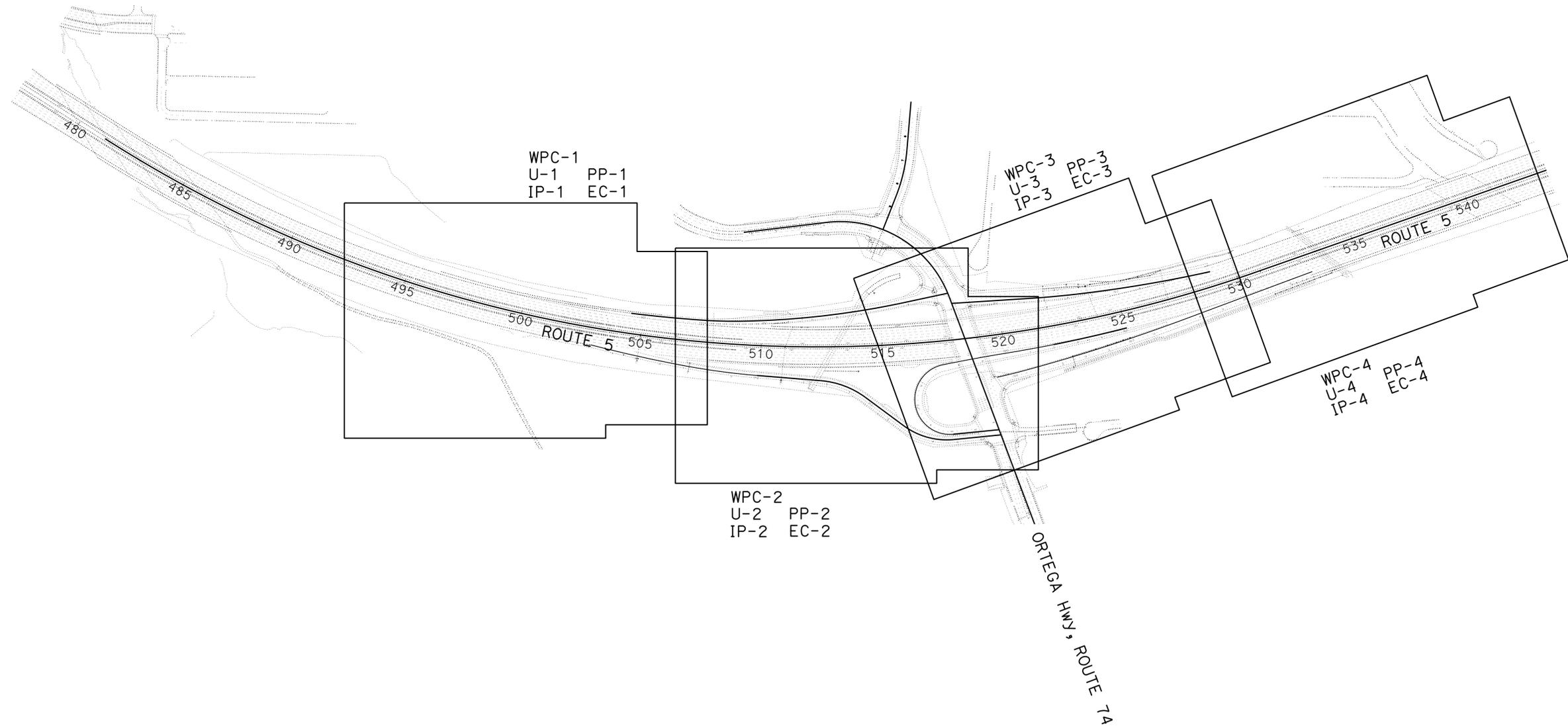
DATE PLOTTED => 06-JUN-2015
TIME PLOTTED => 10:57
LAST REVISION 01-20-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	2	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	STEPHEN SU	REVISOR BY	
Caltrans LANDSCAPE ARCHITECTURE	ERIC DICKSON	CHECKED BY	STEPHEN SU	DATE REVISED	



**KEY MAP
K-1**

NO SCALE

LAST REVISION | DATE PLOTTED => 08-JUN-2015
 01-20-15 TIME PLOTTED => 10:57

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	3	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE



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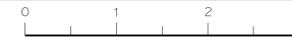
TEMPORARY WATER POLLUTION CONTROL QUANTITIES

PLAN SHEET NUMBER	LOCATION	ITEM			
		TEMPORARY CHECK DAM *	TEMPORARY DRAINAGE INLET PROTECTION	TEMPORARY FIBER ROLL	TEMPORARY GRAVEL BAG BERM
		(LF)	(EA)	(LF)	(LF)
PP-1	ROUTE 5 NORTHBOUND			1,100	
	ROUTE 5 SOUTHBOUND			840	
PP-2	ROUTE 5 NORTHBOUND	90	2	5,890	150
	ROUTE 5 SOUTHBOUND	90	1	4,100	
PP-3	ROUTE 5 NORTHBOUND			4,100	
	ROUTE 5 SOUTHBOUND			2,650	
PP-4	ROUTE 5 NORTHBOUND			1,320	
	ROUTE 5 SOUTHBOUND				
	TOTAL	180	3	20,000	150

* TYPE 1

**WATER POLLUTION
CONTROL QUANTITIES**
WPCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED/DESIGNED BY
 CHECKED BY
 STEPHEN SU
 STEPHEN SU
 REVISED BY
 DATE REVISED



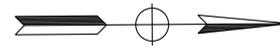
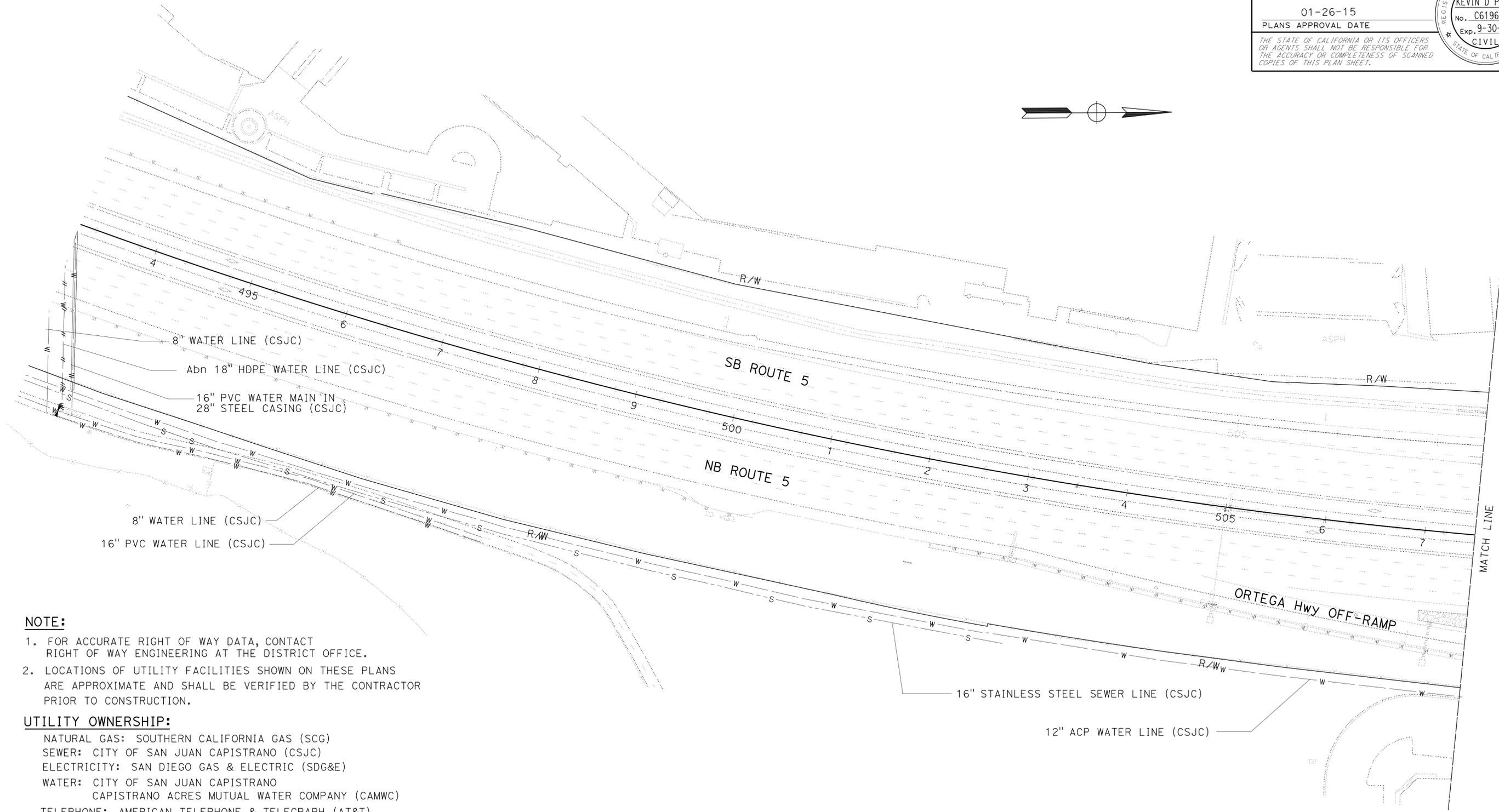
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0 0.0/0.2	4	38

<i>Kevin D. Pham</i>	01-28-15
REGISTERED CIVIL ENGINEER	DATE
01-26-15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
KEVIN D PHAM
No. C61965
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans UTILITY ENGINEERING
 FUNCTIONAL SUPERVISOR: CHRISTOPHER LE
 CALCULATED/DESIGNED BY: KEVIN PHAM
 CHECKED BY: KEVIN PHAM
 REVISED BY: KEVIN PHAM
 DATE REVISED:



NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

UTILITY OWNERSHIP:

NATURAL GAS: SOUTHERN CALIFORNIA GAS (SCG)
 SEWER: CITY OF SAN JUAN CAPISTRANO (CSJC)
 ELECTRICITY: SAN DIEGO GAS & ELECTRIC (SDG&E)
 WATER: CITY OF SAN JUAN CAPISTRANO
 CAPISTRANO ACRES MUTUAL WATER COMPANY (CAMWC)
 TELEPHONE: AMERICAN TELEPHONE & TELEGRAPH (AT&T)
 COMMUNICATIONS: COX COMMUNICATIONS (COX)

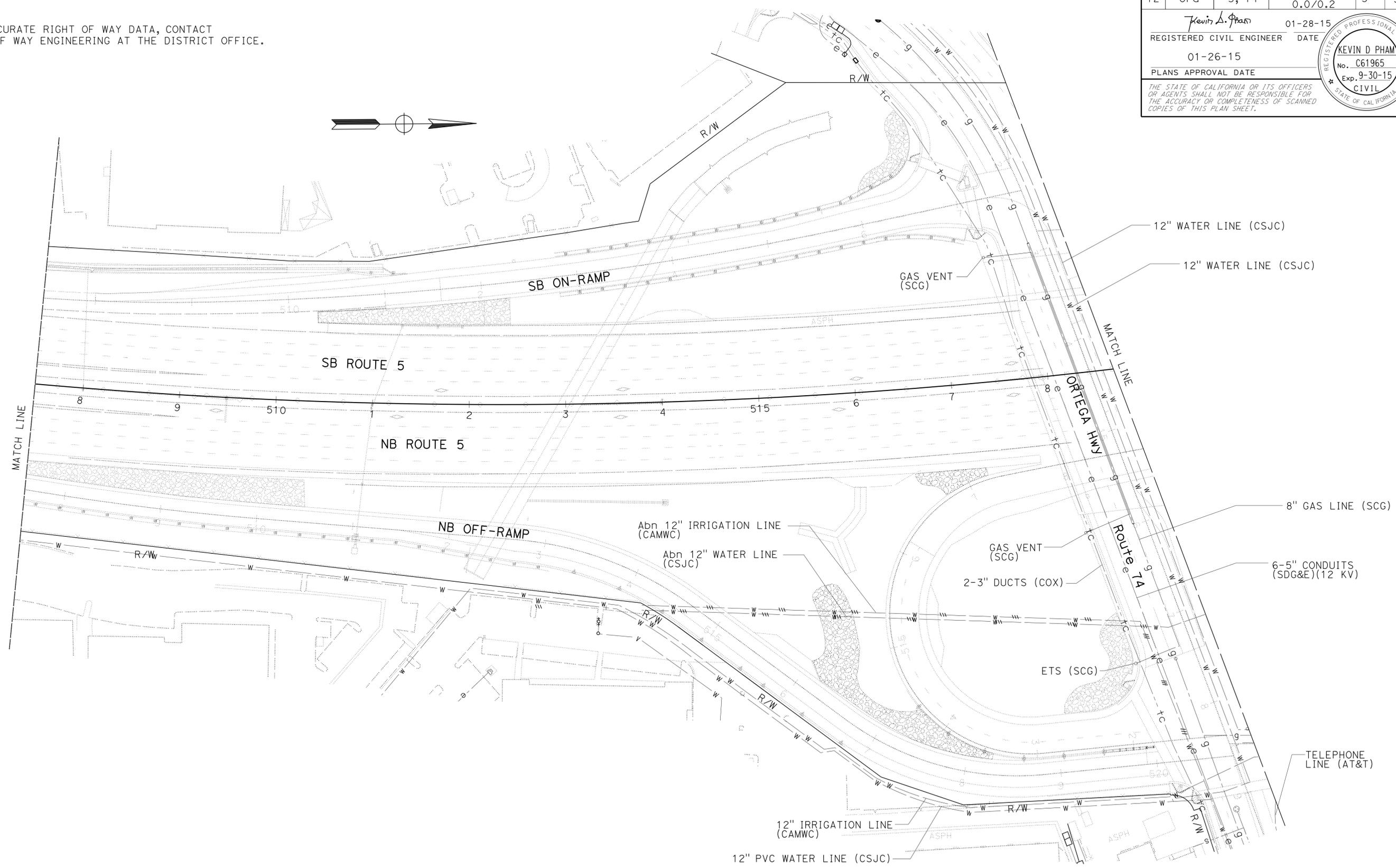
UTILITY PLAN
 SCALE: 1"=50'
U-1

APPROVED FOR UTILITY INFORMATION ONLY

LAST REVISION | DATE PLOTTED => 08-JUN-2015
 01-20-15 | TIME PLOTTED => 10:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0 0.0/0.2	5	38
<i>Kevin D. Pham</i> REGISTERED CIVIL ENGINEER			DATE	01-28-15 01-26-15 PLANS APPROVAL DATE	
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans UTILITY ENGINEERING
 FUNCTIONAL SUPERVISOR: CHRISTOPHER LE
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 MINH PHAM
 KEVIN PHAM
 REVISED BY: [blank]
 DATE REVISED: [blank]

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
 SCALE: 1"=50'

U-2

LAST REVISION | DATE PLOTTED => 08-JUN-2015
 01-20-15 TIME PLOTTED => 10:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0 0.0/0.2	6	38

<i>Kevin D. Pham</i>	01-28-15
REGISTERED CIVIL ENGINEER	DATE
01-26-15	
PLANS APPROVAL DATE	

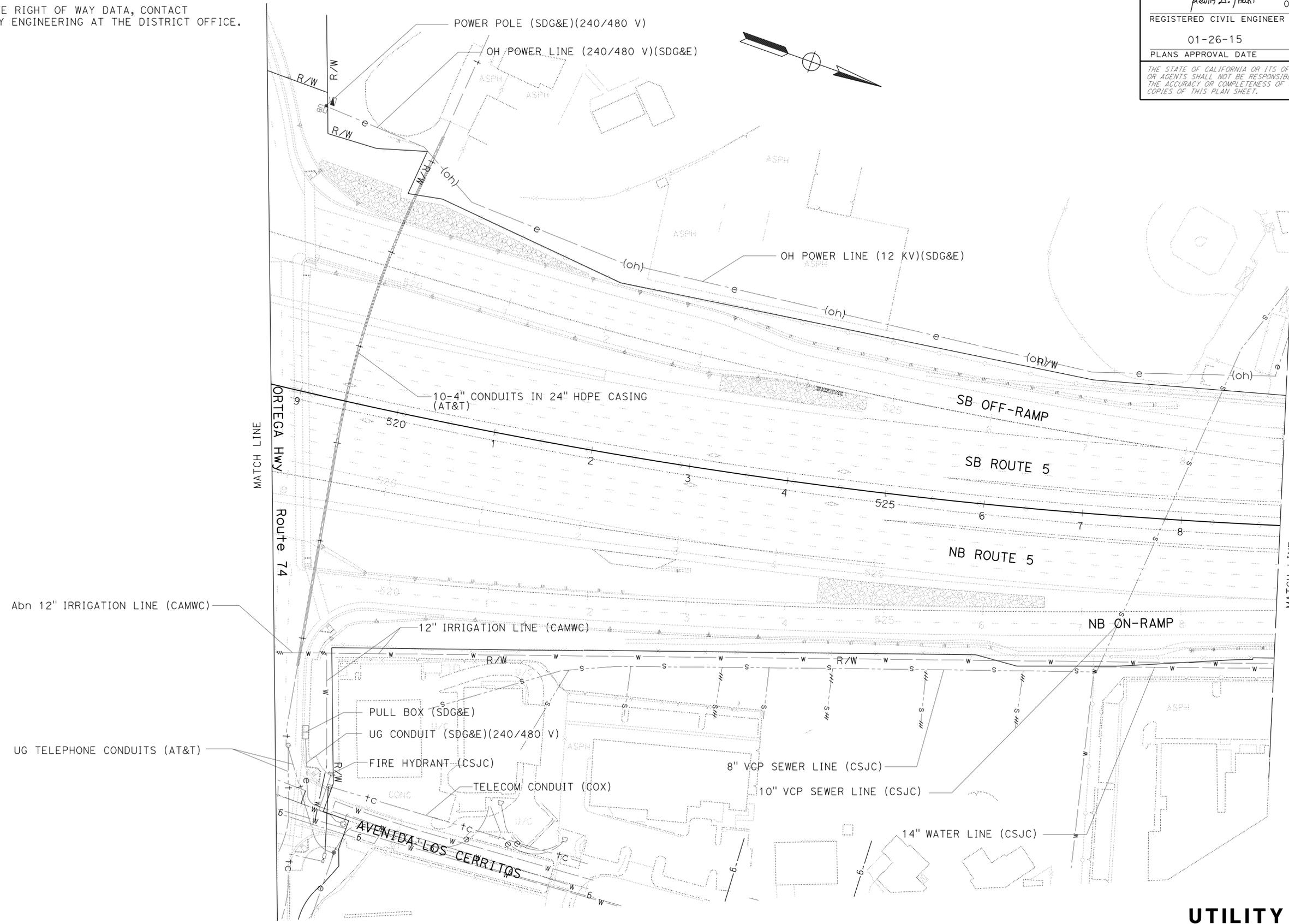
REGISTERED PROFESSIONAL ENGINEER KEVIN D PHAM No. C61965 Exp. 9-30-15 CIVIL STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
Caltrans UTILITY ENGINEERING	CHRISTOPHER LE	CHECKED BY	DATE REVISED
			MINH PHAM
			KEVIN PHAM



APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN
SCALE: 1"=50'

U-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0 0.0/0.2	7	38

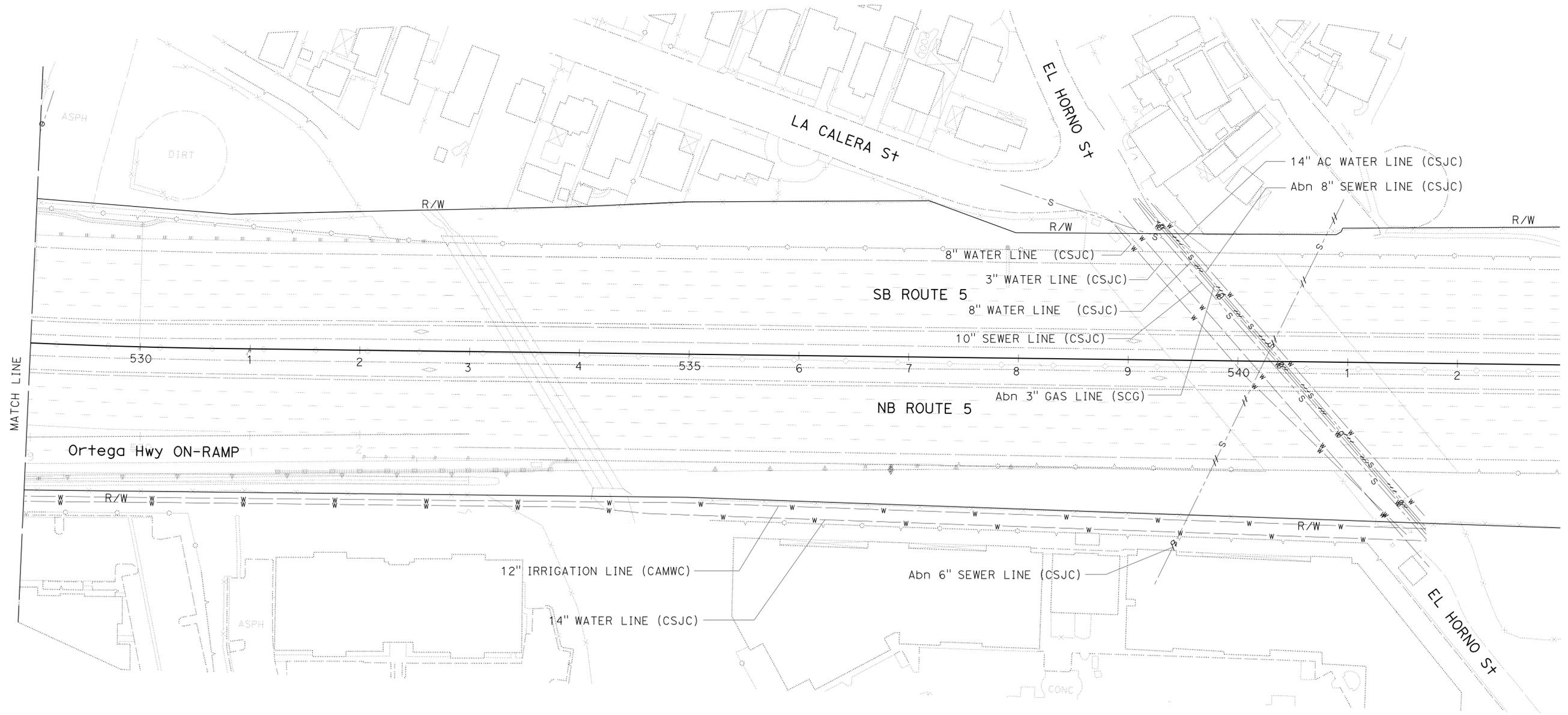
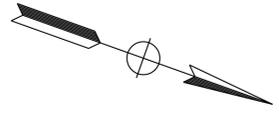
REGISTERED CIVIL ENGINEER	DATE
Kevin D. Pham	01-28-15
PLANS APPROVAL DATE	
01-26-15	

REGISTERED PROFESSIONAL ENGINEER
KEVIN D PHAM
No. C61965
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans UTILITY ENGINEERING

FUNCTIONAL SUPERVISOR
 CHRISTOPHER LE

CALCULATED-DESIGNED BY
 CHECKED BY

MINH PHAM
 KEVIN PHAM

REVISED BY
 DATE REVISED

APPROVED FOR UTILITY INFORMATION ONLY

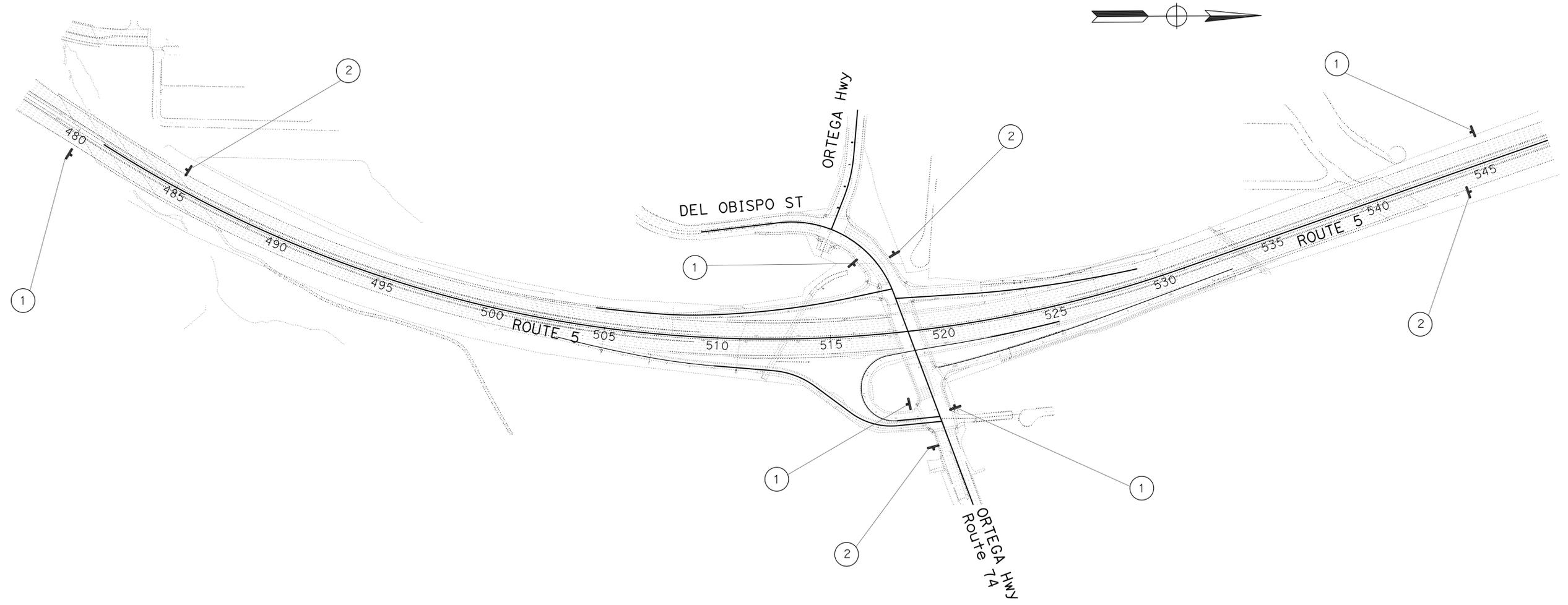
UTILITY PLAN
 SCALE: 1"=50'
U-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	8	38
<i>Bang Q. Hua</i> REGISTERED CIVIL ENGINEER			01-28-15 DATE		
PLANS APPROVAL DATE			01-26-15		
<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>					

NOTE:
 LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE.
 EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

LEGEND:
 (X) CONSTRUCTION AREA SIGN NUMBER
 † CONSTRUCTION AREA SIGN, 1 POST

SIGN NUMBER	SIGN CODE	No. OF SIGNS	PANEL SIZE (in x in)	WOOD POST		SIGN MESSAGE
				No. POST	POST SIZE (in x in)	
(1)	C24(CA)	5	48 x 48	1	6 x 6	SHOULDER WORK AHEAD
(2)	C14(CA)	4	48 x 24	1	4 x 6	END ROAD WORK



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 FUNCTIONAL SUPERVISOR: ERIC DICKSON
 CALCULATED/DESIGNED BY: CHECKED BY:
 STEPHEN SU
 REVISIONS:
 REVISION NO. | DATE | BY | DESCRIPTION

CONSTRUCTION AREA SIGN
 NO SCALE
CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 08-JUN-2015 | 01-20-15 | TIME PLOTTED => 10:57

APPLICABLE WHEN CIRCLED BELOW:

- 1 - SEE SPECIAL PROVISIONS.
- ② - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
- 3 - VINYL-COATED CAST IRON HOUSING.
- ④ - SWING JOINTS REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
- 5 - UNLESS OTHERWISE SHOWN ON PLANS.
- ⑥ - Use 12" Pop-up.
- ⑦ - 2 SPRINKLER ASSEMBLIES FOR LARGE TREE SHOWN ON PLANS.

⑧ - SEE DETAIL PLAN THIS SHEET

X IN BOX DENOTES REQUIREMENT

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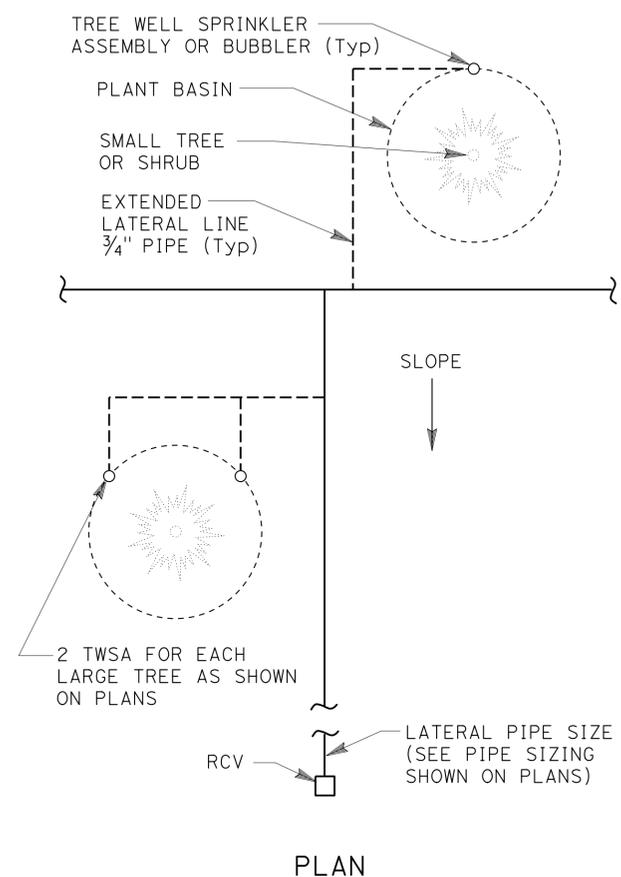
01-28-15
 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE

STEPHEN SHUN-MIN SU
 No. 4838
 9-30-2015
 1-28-15

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SPRINKLER SCHEDULE

SYMBOL	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (psi)	PRESSURE COMPENSATING	PLUS/MINUS 5% ②				SPRINKLER ASSEMBLY							REMARKS			
					DISCHARGE		RADIUS (ft)	WIDTH x LENGTH (ft)	FLOW SHUTOFF DEVICE	RISER		POP-UP		TREE WELL					
					GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)				MATERIAL	SIZE (IPS INCH)	HEIGHT (INCH)	TYPE ④	INLET CONNECTION (NPT INCH)	SPRINKLER PROTECTOR (TYPE)		HEIGHT (INCH)		
①	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	0.88/1.21/1.73	--	24	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
①	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	F	35	X	3.34	--	24	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
②	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	0.88/1.21/1.73	--	24	--	--	--	--	--	--	--	I	3/4"	II	--	⑥
③	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	1.23/1.62/2.59	--	30	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
③	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	F	35	X	5.08	--	30	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
④	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	1.23/1.62/2.59	--	30	--	--	--	--	--	--	--	I	3/4"	II	--	⑥
⑤	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	1.67/2.15/3.33	--	34	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
⑤	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	F	35	X	6.62	--	34	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
⑥	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	1.67/2.15/3.33	--	34	--	--	--	--	--	--	--	I	3/4"	II	--	⑥
⑦	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	4.47	--	40	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
⑦	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN))	F	35	X	4.47	--	40	--	--	IV	X	--	3/4"	16"	--	3/4"	--	--	
⑧	POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN))	Q/TH/H	35	X	4.47	--	40	--	--	--	--	--	--	--	I	3/4"	II	--	⑥
△	RISER SPRINKLER ASSEMBLY (WITH ROTARY NOZZLE)	Q/TH/H	35	--	0.43/0.58/0.86	--	16	--	--	IV	X	--	1/2"	18"	--	1/2"	--	--	
□	RISER SPRINKLER ASSEMBLY (WITH ROTARY NOZZLE)	Q/TH/H	35	--	0.81/1.08/1.62	--	22	--	--	IV	X	--	1/2"	18"	--	1/2"	--	--	
■	POP-UP SPRINKLER ASSEMBLY (WITH ROTARY NOZZLE)	Q/TH/H	35	X	0.81/1.08/1.62	--	22	--	--	--	--	--	--	--	I	1/2"	--	--	⑥
○	TREE WELL SPRINKLER ASSEMBLY	Q/TH/H	30	--	0.2	--	5	--	--	IV	X	--	1/2"	18"	--	1/2"	--	--	⑦ ⑧
⊗	RISER SPRINKLER ASSEMBLY		30	--	0.61/1.21	--	28	4X15/4X30	--	IV	X	--	1/2"	18"	--	1/2"	--	--	



- NOTES:**
1. Install tree well sprinkler assembly (TWSA) on up-hill side of plant when on slope.
 2. Install TWSA or bubbler within basin.

TREE WELL SPRINKLER ASSEMBLY

SPRINKLER SCHEDULE
ISS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
 CHECKED BY
 CALCULATED/DESIGNED BY
 KEN CHAN
 REVISOR BY
 DATE REVISOR
 STEPHEN SU

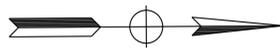
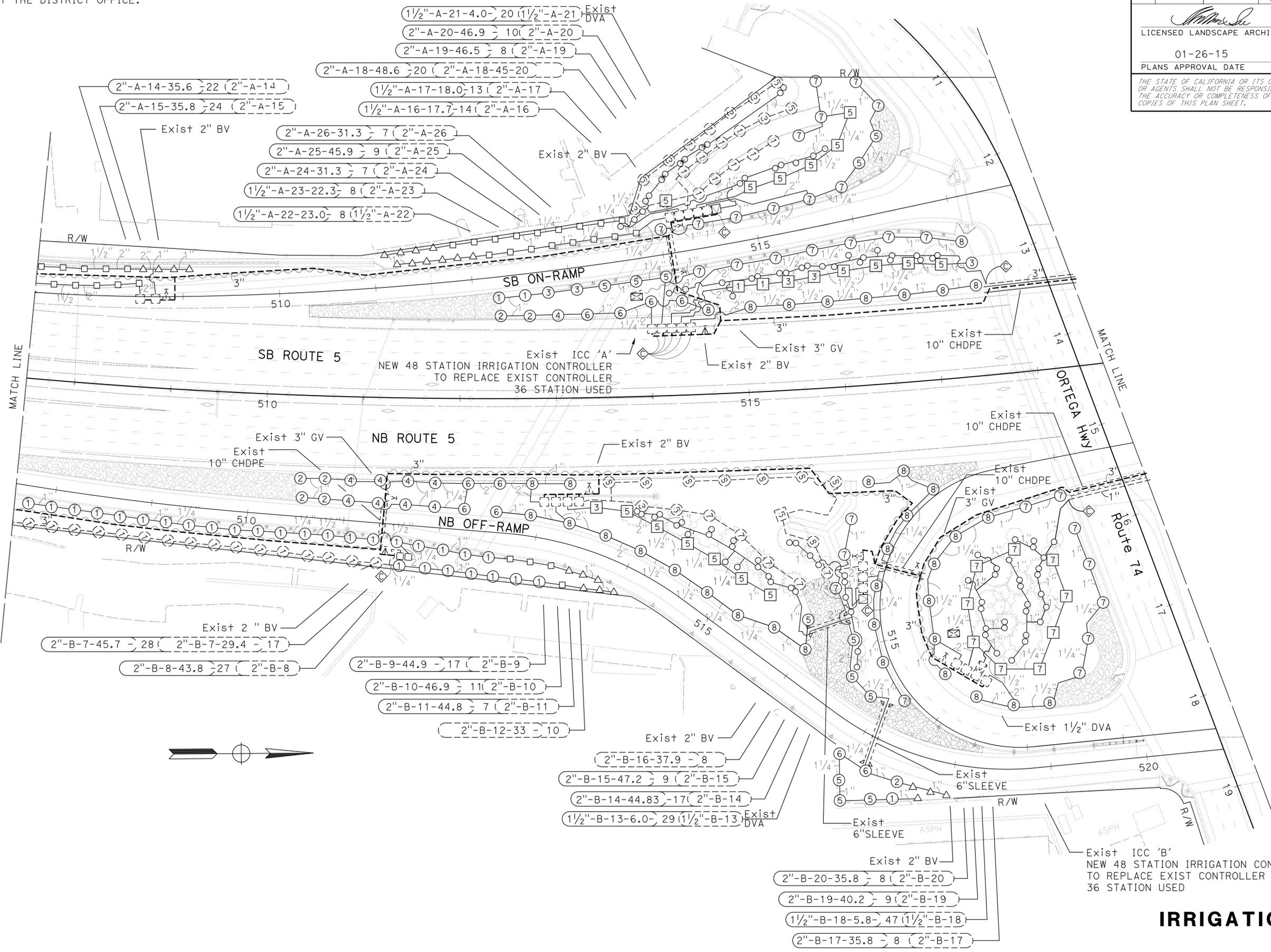
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LICENSED LANDSCAPE ARCHITECT
STEPHEN SHUN-MIN SU
No. 4838
SIGNATURE
9-30-15
PERIOD DATE
01-28-15
DATE
STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CHECKED BY
 STEPHEN SU
 DESIGNED BY
 STEPHEN SU
 REVISIONS
 DATE
 REVISIONS
 DATE

APPROVED FOR IRRIGATION ONLY

IRRIGATION PLAN
IP-2

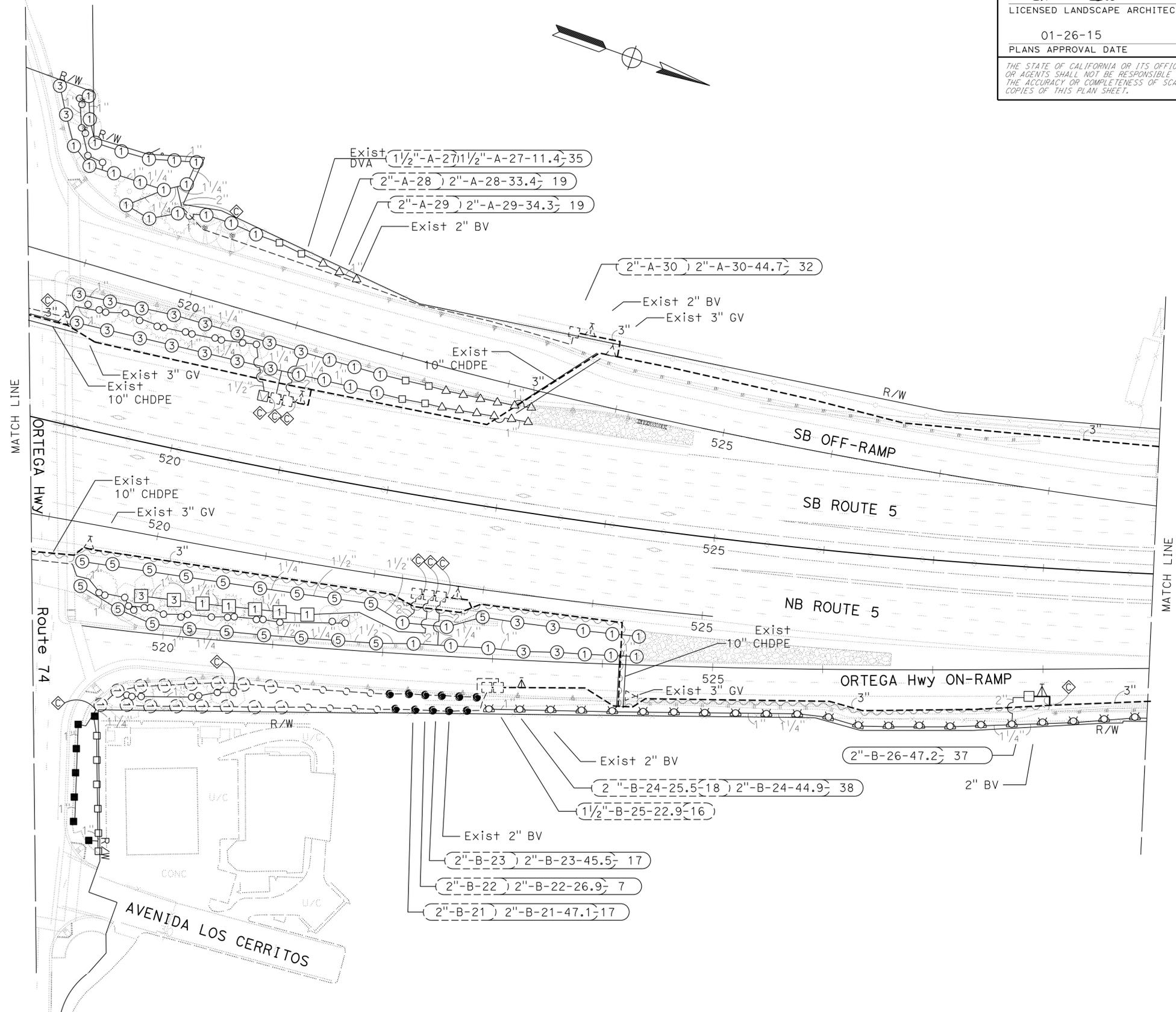
SCALE : 1"=50'

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR
Caltrans LANDSCAPE ARCHITECTURE	ERIC DICKSON	CHECKED BY	STEPHEN SU
			STEPHEN SU
			DATE REVISED

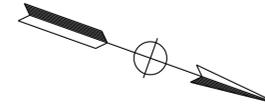
APPROVED FOR IRRIGATION ONLY

IRRIGATION PLAN
IP-3

SCALE : 1"=50'



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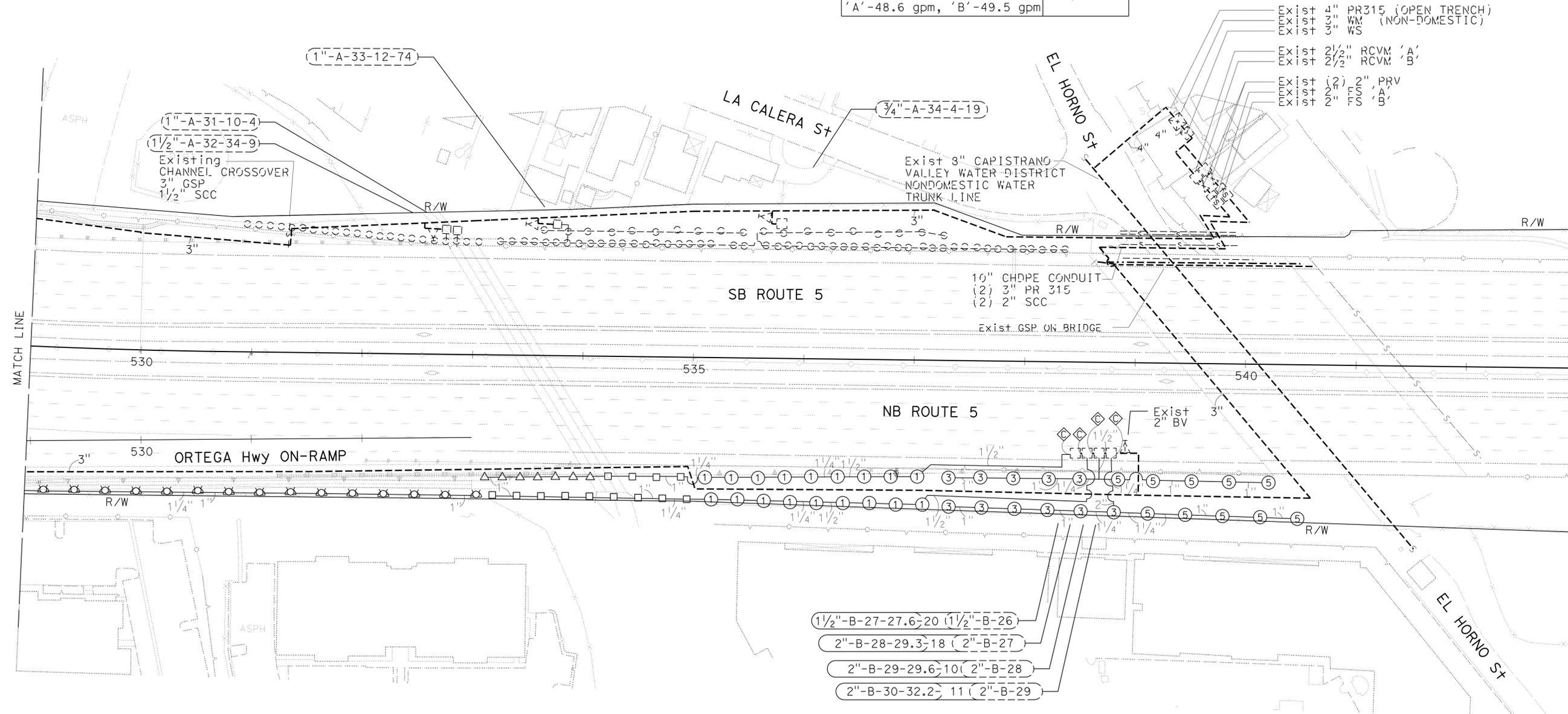

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**NEW WATER METER INFORMATION
(SERVING 'A' & 'B' SYSTEMS)**

DOMESTIC WATER METER SIZE	--"
HYDRAULIC GRADE LINE	-- Feet
STATIC PRESSURE @ P.O.C.	-- psi
ELEVATION @ P.O.C.	-- Feet
AREA IRRIGATED	--.- Acres
MAXIMUM FLOW	50 gpm
'A'-48.6 gpm, 'B'-49.5 gpm	



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED/DESIGNED BY
 CHECKED BY
 STEPHEN SU
 STEPHEN SU
 REVISED BY
 DATE REVISED

APPROVED FOR IRRIGATION ONLY

**IRRIGATION PLAN
IP-4**

SCALE : 1"=50'

LAST REVISION DATE PLOTTED => 08-JUN-2015 TIME PLOTTED => 10:57

ABBREVIATIONS

RSAGD - RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)
 PSAGD - POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN)
 RSARN - RISER SPRINKLER ASSEMBLY (ROTARY NOZZLE)
 PSARN - POP-UP SPRINKLER ASSEMBLY (ROTARY NOZZLE)
 RSA - RISER SPRINKLER ASSEMBLY
 PSA - POP-UP SPRINKLER ASSEMBLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	14	38

LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE

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

IRRIGATION QUANTITIES

DESCRIPTION	PLASTIC PIPE SCHEDULE 40 SUPPLY LINE					SPRINKLER TYPE ASSEMBLY																			
						RSAGD							PSAGD				RSARN	PSARN	TWSA	RSA					
	3/4"	1"	1 1/4"	1 1/2"	2"	①	①	③	③	⑤	⑤	⑦	⑦	②	④	⑥	⑧	△	□	■	○	⊗			
UNIT	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
SUBTOTALS PER VALVE																									
ON LATERAL SUPPLY SIDE OF CONTROL VALVE																									
CONTROLLER AND VALVE NUMBER																									
A-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-12	60	170	150	120	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-13	65	170	150	120	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-14	65	170	150	120	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-15	70	210	150	120	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-16	40	210	70	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-17	40	175	100	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-19	25	90	80	40	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-20	30	150	300	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-21	200	500	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-22	25	220	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-23	25	210	35	40	-	2	-	2	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
A-24	20	90	90	90	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-25	25	75	40	80	160	-	2	1	2	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-26	20	90	90	90	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-27	350	600	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-28	55	350	125	-	20	4	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-29	55	350	130	-	40	3	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-30	70	600	200	-	40	19	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A-36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUBTOTAL	1240	4430	1900	1110	980	28	2	20	2	5	18	10	-	2	1	4	9	29	108	-	-	61	-	-	

IRRIGATION QUANTITIES

DESCRIPTION	PLASTIC PIPE SCHEDULE 40 SUPPLY LINE					SPRINKLER TYPE ASSEMBLY																			
						RSAGD							PSAGD				RSARN	PSARN	TWSA	RSA					
	3/4"	1"	1 1/4"	1 1/2"	2"	①	①	③	③	⑤	⑤	⑦	⑦	②	④	⑥	⑧	△	□	■	○	⊗			
UNIT	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	
SUBTOTALS PER VALVE																									
ON LATERAL SUPPLY SIDE OF CONTROL VALVE																									
CONTROLLER AND VALVE NUMBER																									
B-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-2	180	850	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-
B-3	55	140	140	115	200	10	-	4	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-4	55	220	160	115	90	11	-	3	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-5	55	300	220	-	20	10	-	3	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-7	35	190	80	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-8	80	350	220	110	20	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-9	50	360	110	-	120	-	-	-	-	-	-	-	-	4	8	3	2	-	-	-	-	-	-	-	-
B-10	35	180	90	90	120	-	-	-	-	1	-	-	-	-	-	1	9	-	-	-	-	-	-	-	-
B-11	20	40	80	40	120	-	-	-	-	1	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-
B-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-13	290	530	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-
B-14	20	300	90	140	120	1	-	-	-	6	-	3	-	1	-	2	-	4	-	-	-	-	-	-	-
B-15	25	180	150	-	60	-	-	-	-	-	-	1	-	-	-	8	-	-	-	-	-	-	-	-	-
B-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-17	25	140	90	90	80	-	-	-	-	-	-	5	-	-	-	3	-	-	-	-	-	-	-	-	-
B-18	470	800	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	-
B-19	25	400	130	45	100	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-
B-20	25	130	90	90	60	-	-	-	-	-	-	2	-	-	-	6	-	-	-	-	-	-	-	-	-
B-21	50	270	180	110	30	5	-	2	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-22	20	70	80	40	120	-	5	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-23	50	300	210	80	60	6	-	2	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-24	60	160	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-26	100	560	560	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-
B-27	60	200	160	260	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-28	55	170	160	300	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-29	30	250	100	30	-	-	-	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-30	30	250	110	-	50	-	-	6	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	1900	7340	3340	1800	1390	89	5	25																	

ABBREVIATIONS

AMEND — amendment
 B & B — balled and burlapped
 Dia — diameter
 EA — each
 LB — pound
 Oz — ounce
 Ft — foot/feet
 SQFT — square feet
 SQYD — square yard
 CF — cubic feet
 Max — maximum
 ETW — edge of traveled way
 Min — minimum
 NCN — no common name
 No. — number
 Pkt — packet
 PLT ESTB — plant establishment
 Pvmt — pavement
 R/W — right of way
 SB — shredded bark
 SF — state furnished
 WC — wood chip
 TRVD — traveled
 N — nitrolize fir bark

APPLICABLE WHEN CIRCLED:

- ① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
- ② - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
- ③ - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED
- 4 - SEE DETAIL
- 5 - SEE SPECIAL PROVISIONS

- ⑥ - SEE STANDARD SPECIFICATIONS
- ⑦ - AS SHOWN ON PLANS
- 8 - UNLESS OTHERWISE SHOWN ON PLANS
- 9 - FOLIAGE PROTECTOR REQUIRED
- 10 - ROOT PROTECTOR REQUIRED
- 11 - ROOT BARRIER REQUIRED
- 12 - DEPARTMENT-FURNISHED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	16	38

LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE

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

NOTE:
 UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

PLANTING LEGEND

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH (SQYD)	HOLE SIZE (INCH)		BASIN TYPE	SOIL AMEND		COMMERCIAL FERTILIZER ①		BASIN MULCH		STAKING	PLANTING LIMITS						REMARKS	
							Dia	DEPTH		TYPE	CF	PLANTING	PLT ESTB	TYPE	CF		MINIMUM DISTANCE (ft) FROM			ON CENTER (ft)				
																	ETW	Pvmt	FENCE		WALL	PAVED DITCH		EARTH DITCH
A	1		ARISTIDA PURPUREA	PURPLE THREE AWN	No. 1	1336	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	2	GRASS
	2		BACCHARIS PILULARIS 'TWIN PEAKS'	PROSTRATE COYOTE BRUSH	No. 1	2661	12	12	II	N	0.4	-	2 Oz	WC	②	-	8	10	3	10	2	2	4	GROUNDCOVER
	3		COTONEASTER DAMMERI	BEARBERRY COTONEASTER	No. 1	300	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	4	SHRUB
	4		JUNCUS PATENS	SPREADING RUSH	No. 1	334	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	3	SHRUB
	5		LANTANA SPREADING SUNSHINE	YELLOW LANTANA	No. 1	1258	12	12	II	N	0.4	-	2 Oz	WC	②	-	8	3	3	3	3	3	4	GROUNDCOVER
	6		MYOPORUM PARVIFOLIUM	PROSTRATE MYOPORUM	No. 1	3312	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	5	GROUNDCOVER
	7		SENECIO SERPENS	BLUE CHALK STICKS	No. 1	1930	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	1 1/2	GROUNDCOVER
	8		LONICERA JAPONICA 'HALLIANA'	HALL'S HONEYSUCKLE	No. 1	715	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	5	GROUNDCOVER
	9		LIMONIUM CALIFORNICUM	CALIFORNIA SEA LAVENDER	No. 1	672	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	2	SHRUB
	10		SALVIA CLEVELANDII	CLEVELAND SAGE	No. 1	564	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	2 1/2	SHRUB
	11		ACACIA REDOLENS 'DESERT CARPET'	PROPOTRATE ACACIA	No. 1	29	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	⑦	SHRUB
	12		BACCHARIS SALICIFOLIA	MULE FAT	No. 1	81	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	⑦	SHRUB
B	13		AGAVE SHAWII	SHAW'S AGAVE	No. 5	9	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	⑦	SHRUB
	14		ATRIPLEX LENTIFORMIS	COASTAL QUAIL BRUSH	No. 5	16	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	-	-	-	-	-	⑦	SHRUB
	15		RHUS INTEGRIFOLIA	LEMONADE BERRY	No. 5	91	12	12	II	N	0.4	-	2 Oz	WC	②	-	-	15	10	10	10	12	⑦	SHRUB
	16		SALIX LAEVIGATA	RED WILLOW	No. 5	11	12	12	II	N	0.4	-	2 Oz	WC	②	-	30	-	-	-	-	-	⑦	TREE
F	17		GAZANIA RIGENS 'LEUCOLAENA'	COASTAL TRAILING GAZANIA	IN FLATS	12,100	③	③	-	-	-	4.0 LB/100 SQYD	-	WC	②	-	30	-	-	-	-	-	3/4	GROUNDCOVER
U	18		CERCIS OCCIDENTALIS	WESTERN REDBUD	No 15	15	24	24	II	N	2.7	12 Oz	12 Oz	WC	2.7	⑥	30	-	30	30	30	32	⑦	SMALL TREE
	19		CEANOTHUS 'FROSTY BLUE'	FROSTY BLUE CALIFORNIA LILAC	No 15	38	24	24	II	N	2.7	12 Oz	12 Oz	WC	2.7	⑥	30	-	-	-	-	-	⑦	TALL SHRUB
K	20		ARAUCARIA HETEROPHYLLA	NORFOLK ISLAND PINE	24"Box	29	24	24	II	N	2.7	12 Oz	12 Oz	WC	2.7	⑥	40	-	-	-	-	-	⑦	TREE
	21		CERCIDIUM FLORIDUM	BLUE PALOS VERDE	24"Box	4	24	24	II	N	2.7	12 Oz	12 Oz	WC	2.7	⑥	30	15	15	15	15	15	⑦	SMALL TREE
	22		PLATANUS RACEMOSA	WESTERN SYCAMORE	24"Box	11	24	24	II	N	2.7	12 Oz	12 Oz	WC	2.7	⑥	50	-	40	40	30	32	⑦	TREE
	23		QUERCUS AGRIFOLIA	COASTAL LIVE OAK	24"BOX	8	60	42	II	N	5.0	12 Oz	24 Oz	WC	8	⑥	40	-	20	15	15	17	⑦	TREE
T	24		FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	SOD	(240)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GRASS	

LEGEND

REMOVE EXISTING CASTOR BEAN PLANTS

PLANT LEGEND PL-1

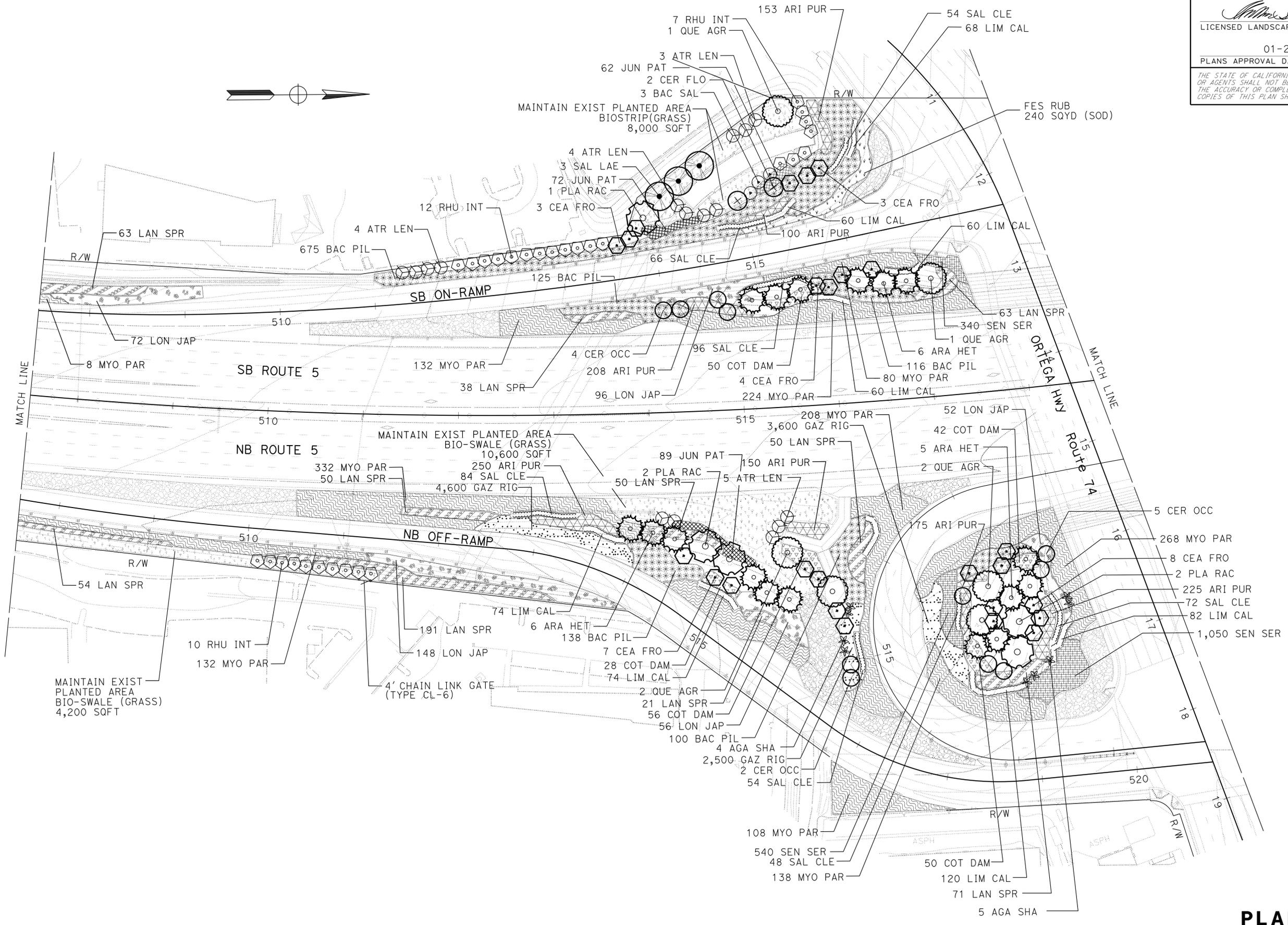
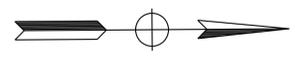
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 KEN CHAN
 STEPHEN SU
 ERIC DICKSON
 LAST REVISION DATE PLOTTED => 08-JUN-2015 01-20-15 TIME PLOTTED => 10:57

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	18	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
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REVISOR: STEPHEN SU
 DATE: 01-26-15
 CHECKED BY: STEPHEN SU
 DESIGNED BY: ERIC DICKSON
 ARCHITECT: LANDSCAPE ARCHITECTURE
 TRANSPORTATION: DEPARTMENT OF TRANSPORTATION
 CALTRANS

APPROVED FOR PLANTING ONLY

PLANTING PLAN
PP-2

SCALE : 1"=50'

LAST REVISION: 01-20-15
 DATE PLOTTED => 08-JUN-2015
 TIME PLOTTED => 10:57

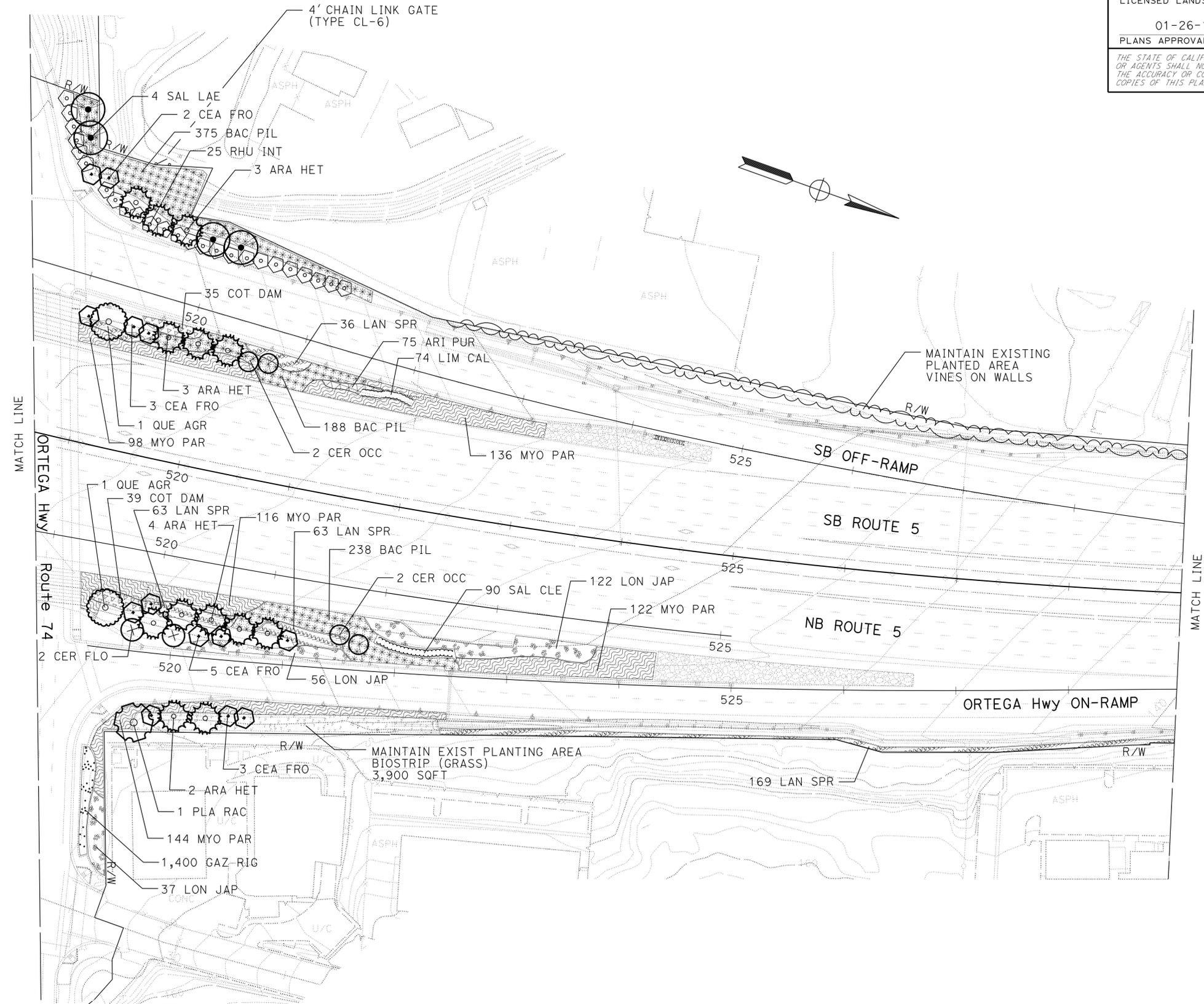
NOTE: FOR ACCURATE RIGHT OF WAY DATA,
CONTACT RIGHT OF WAY ENGINEERING
AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	19	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
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THE STATE OF CALIFORNIA OR ITS OFFICERS
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THE ACCURACY OR COMPLETENESS OF SCANNED
COPIES OF THIS PLAN SHEET.



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

APPROVED FOR PLANTING ONLY

PLANTING PLAN
SCALE : 1"=50'
PP-3

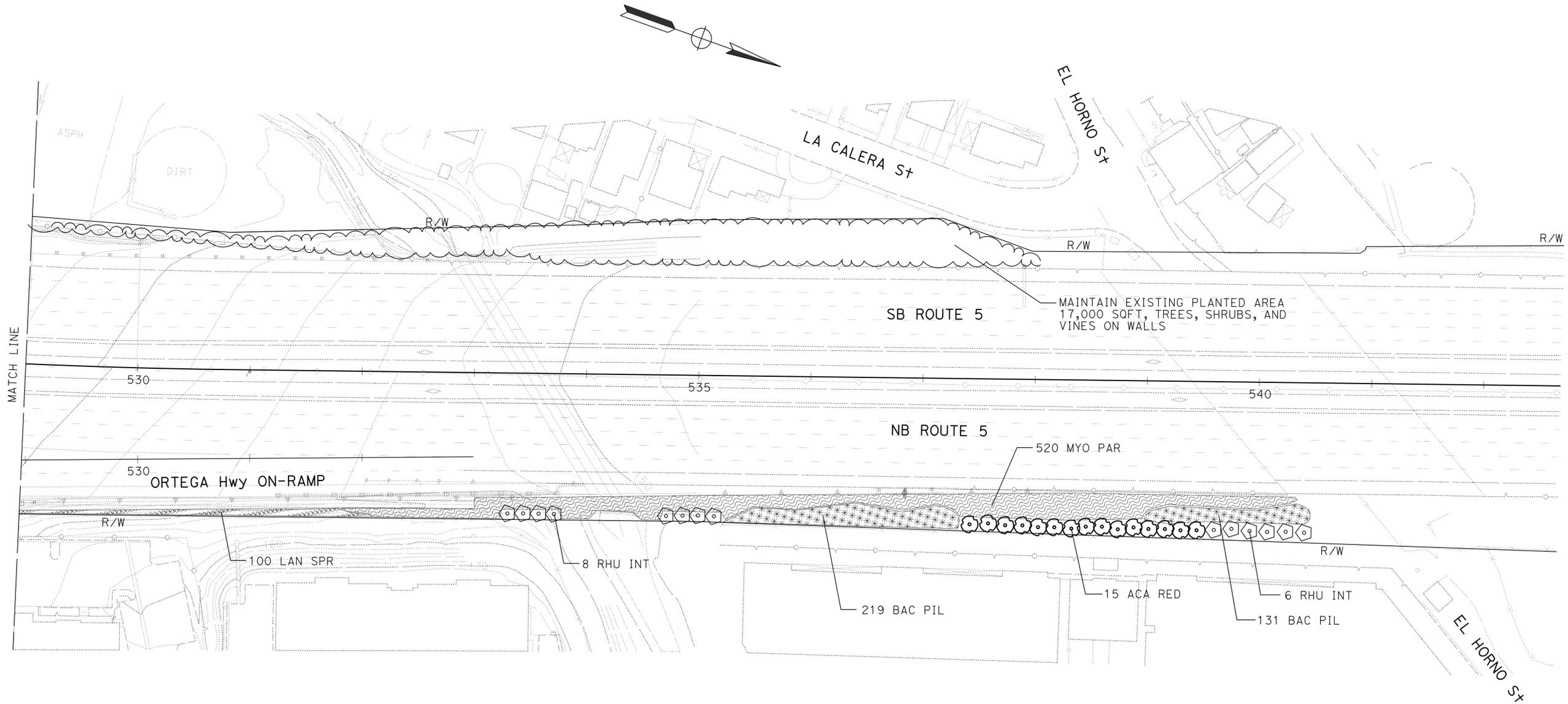
LAST REVISION DATE PLOTTED => 08-JUN-2015
 01-20-15 TIME PLOTTED => 10:57

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	20	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE


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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	STEPHEN SU	REVISOR	DATE
Caltrans		ERIC DICKSON	STEPHEN SU		

APPROVED FOR PLANTING ONLY

PLANTING PLAN
SCALE : 1"=50'
PP-4



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED/DESIGNED BY
 CHECKED BY
 KEN CHAN
 STEPHEN SU
 REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	21	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE



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EROSION CONTROL QUANTITIES

PLANS SHEET NUMBER	LOCATION	EROSION CONTROL	
		COMPOST	WOOD MULCH
		(SQFT)	(CY)
EC-1	ROUTE 5 NORTHBOUND	24,100	47
	ROUTE 5 SOUTHBOUND	16,000	26
EC-2	ROUTE 5 NORTHBOUND	44,700	254
	ROUTE 5 SOUTHBOUND	20,200	177
EC-3	ROUTE 5 NORTHBOUND	22,000	87
	ROUTE 5 SOUTHBOUND	6,200	106
EC-4	ROUTE 5 NORTHBOUND	11,700	97
	ROUTE 5 SOUTHBOUND	0	0
TOTAL		144,900	800

PLANT QUANTITIES

ITEM	UNIT	QUANTITY
PLANT (GROUP A)	EA	13,192
PLANT (GROUP B)	EA	127
PLANT (GROUP F)	EA	12,100
PLANT (GROUP U)	EA	53
PLANT (GROUP K) *	EA	52
PLANT (GROUP T)	SQYD	240

* 24" Box

WOOD MULCH

TYPE	QUANTITY (CY)
TREE BARK	--
WOOD CHIP	800
SHREDDED BARK	--
TREE TRIMMING	--
TOTAL	800

SOIL AMENDMENT

TYPE	QUANTITY (CY)
SPHAGNUM PEAT MOSS	--
NITROLIZED FIR BARK	200
VERMICULITE	--
PERLITE	--
TOTAL	200

COMMERCIAL FERTILIZERS

TYPE	QUANTITY (LB)
SLOW RELEASE FERTILIZER	110
TOTAL	110

CHAIN LINK GATE

PLAN SHEET No.	TYPE	QUANTITY (EA)
PP-2	4 FEET, CL-6	1
PP-3	4 FEET, CL-6	1
	TOTAL	2

**LANDSCAPE QUANTITIES
LQ-1**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	22	38

Stephen Su
LICENSED LANDSCAPE ARCHITECT
01-26-15
PLANS APPROVAL DATE

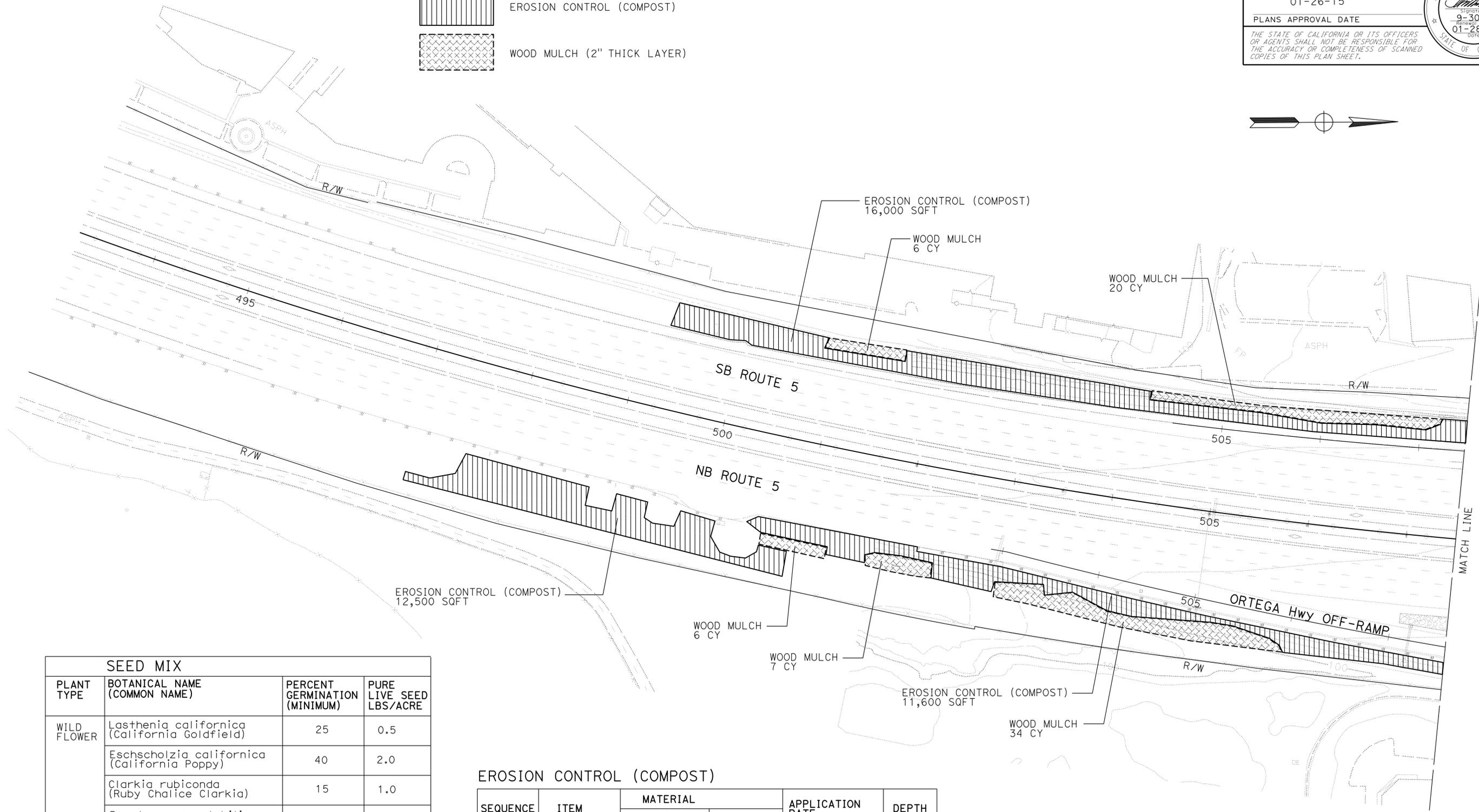
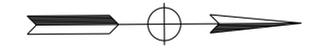
9-30-15
01-28-15

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LEGEND

 EROSION CONTROL (COMPOST)

 WOOD MULCH (2" THICK LAYER)



SEED MIX			
PLANT TYPE	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	PURE LIVE SEED LBS/ACRE
WILD FLOWER	Lasthenia californica (California Goldfield)	25	0.5
	Eschscholzia californica (California Poppy)	40	2.0
	Clarkia rubicunda (Ruby Chalice Clarkia)	15	1.0
	Penstemon spectabilis (Showy Penstemon)	40	2.0
	Layia platyglossa (Coastal Tidy Tips)	35	0.5
TOTAL			6.0

EROSION CONTROL (COMPOST)

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH
		DESCRIPTION	TYPE		
STEP 1	COMPOST	COMPOST	MEDIUM	270 CY/ACRE	2 "
		SEED MIX (N)			

(N): NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
NOTE: THE PAY ITEM OF COMPOST INCLUDE BOTH COMPOST AND SEED MIX

APPROVED FOR EROSION CONTROL ONLY

EROSION CONTROL PLAN
EC-1

SCALE : 1"=50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

ERIC DICKSON - SENIOR LANDSCAPE ARCHITECT

STEPHEN SU - CALCULATED/DESIGNED BY

STEPHEN SU - CHECKED BY

REVISOR: BY DATE

LAST REVISION DATE PLOTTED => 08-JUN-2015 01-20-15 TIME PLOTTED => 10:57

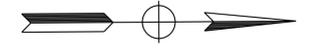
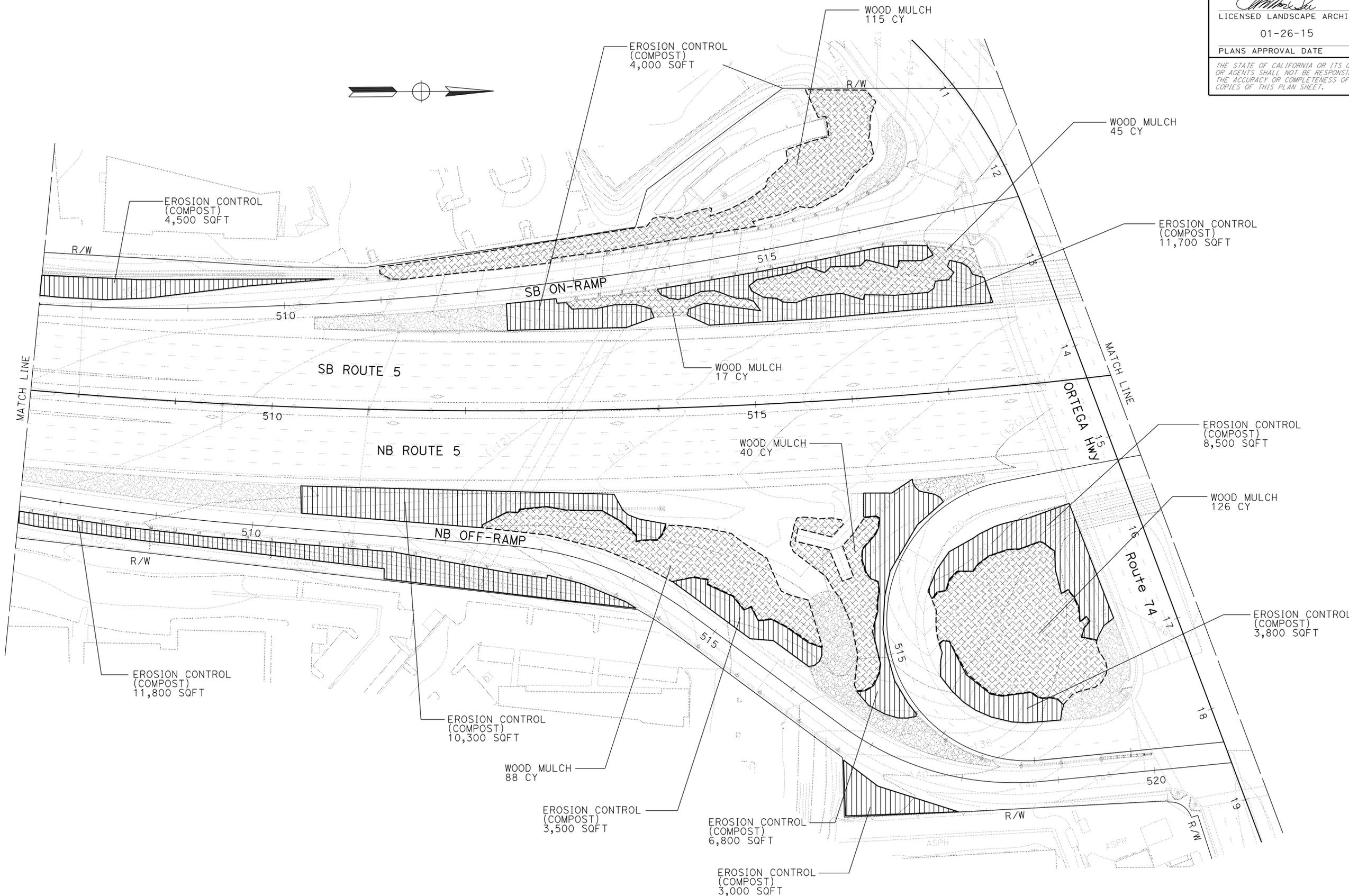
NOTE: FOR ACCURATE RIGHT OF WAY DATA,
CONTACT RIGHT OF WAY ENGINEERING
AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	23	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE


 9-30-15
 01-28-15
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	STEPHEN SU	REVISOR
Eric Dickson	ERIC DICKSON	DESIGNED BY	STEPHEN SU	DATE
		CHECKED BY		REVISED



APPROVED FOR EROSION CONTROL ONLY

EROSION CONTROL PLAN
EC-2

SCALE : 1"=50'

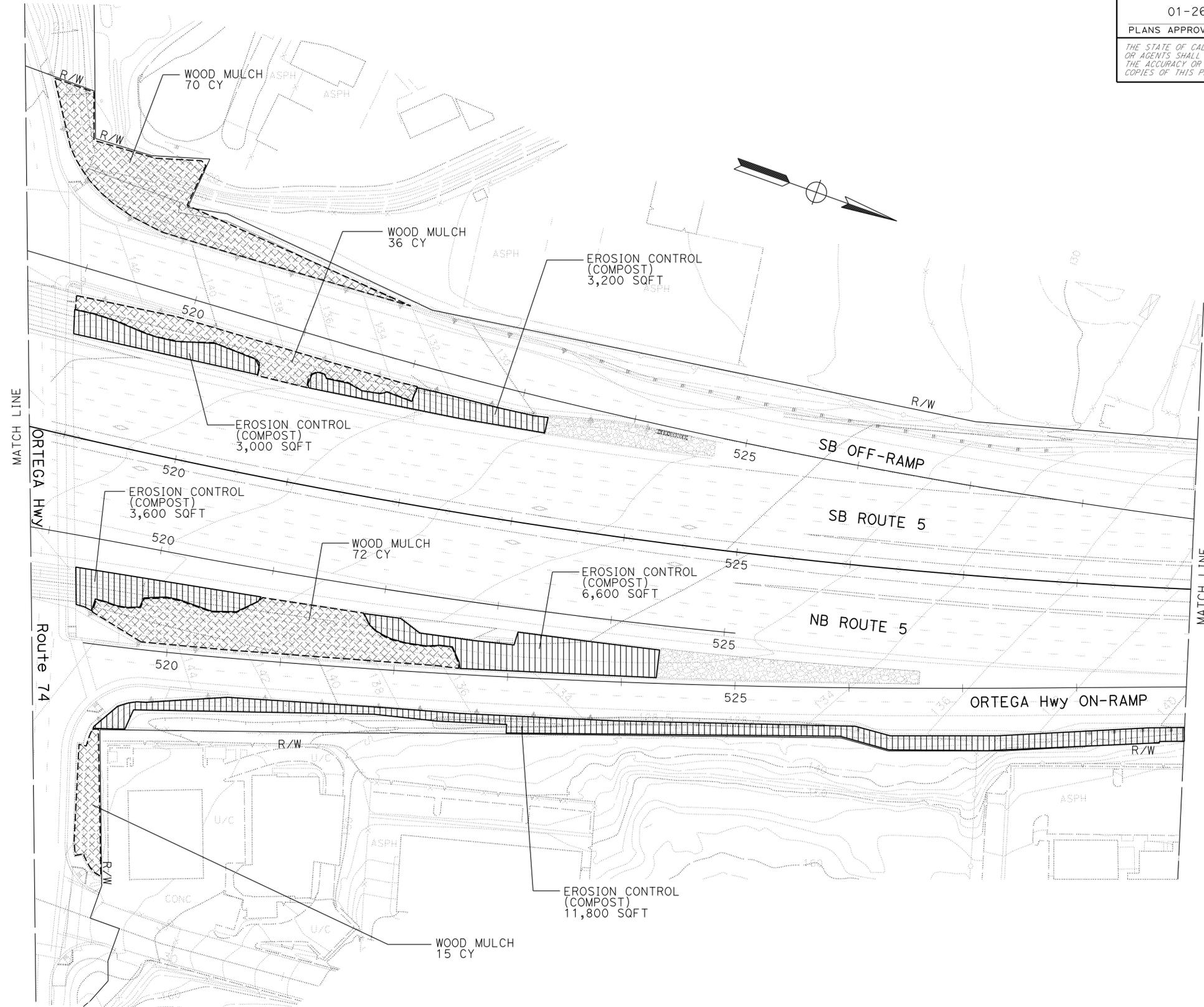
NOTE: FOR ACCURATE RIGHT OF WAY DATA,
CONTACT RIGHT OF WAY ENGINEERING
AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	24	38


 LICENSED LANDSCAPE ARCHITECT
 01-26-15
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	ERIC DICKSON	CHECKED BY	STEPHEN SU	
			STEPHEN SU	

EROSION CONTROL PLAN
EC-3

APPROVED FOR EROSION CONTROL ONLY

SCALE : 1"=50'



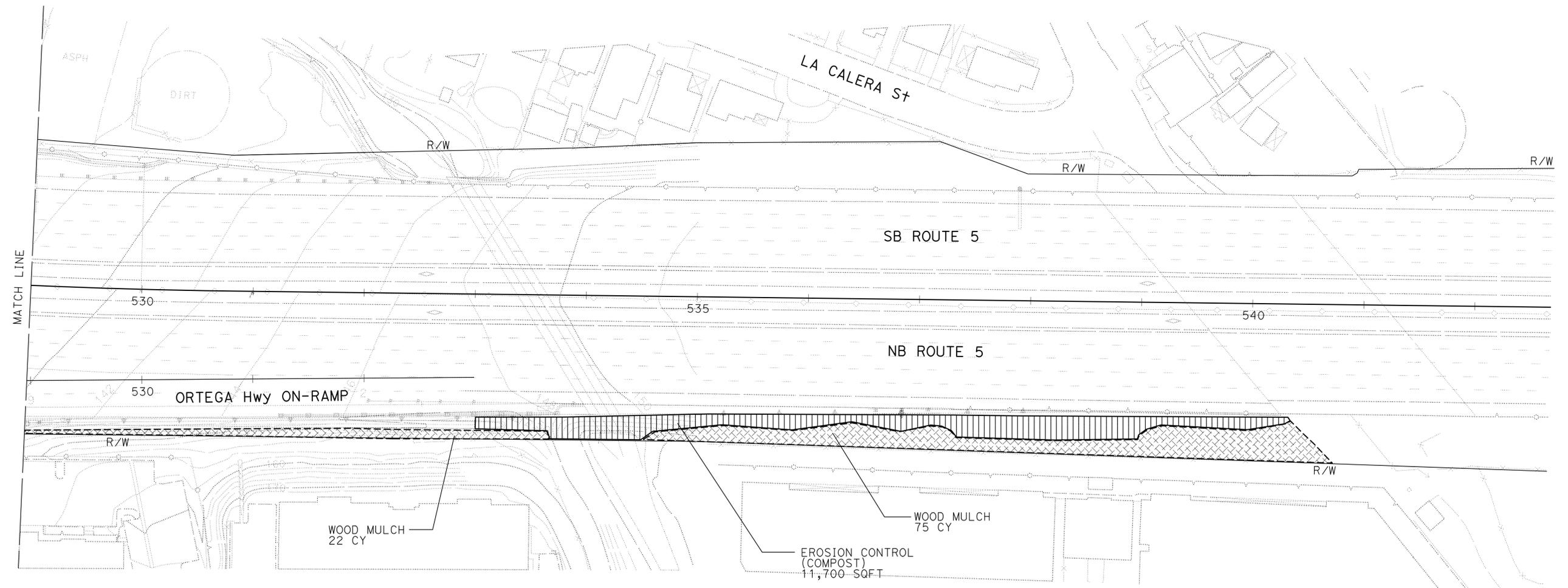
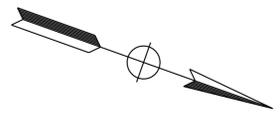
NOTE: FOR ACCURATE RIGHT OF WAY DATA,
CONTACT RIGHT OF WAY ENGINEERING
AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	25	38

Stephen Su
LICENSED LANDSCAPE ARCHITECT
01-26-15
PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED/DESIGNED BY
 CHECKED BY
 STEPHEN SU
 STEPHEN SU
 REVISED BY
 DATE REVISED

EROSION CONTROL PLAN
EC-4

APPROVED FOR EROSION CONTROL ONLY

SCALE : 1"=50'

	M	
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	
	N	
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	
	O	
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	
	P	
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	

	P continued	
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	
	Q	
Qty	QUANTITY	
	R	
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	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
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	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	W
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	X
X Sec	CROSS SECTION	
Xing	CROSSING	Y
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	26	38



Grace M. Tsushima
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 01-26-15

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 ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
Ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

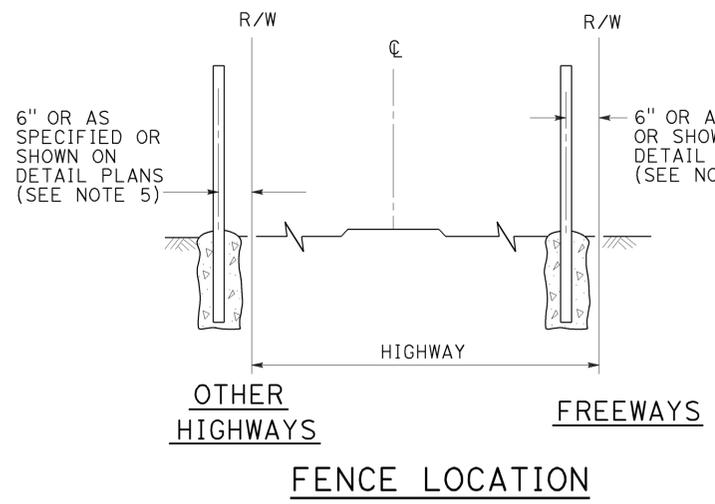
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

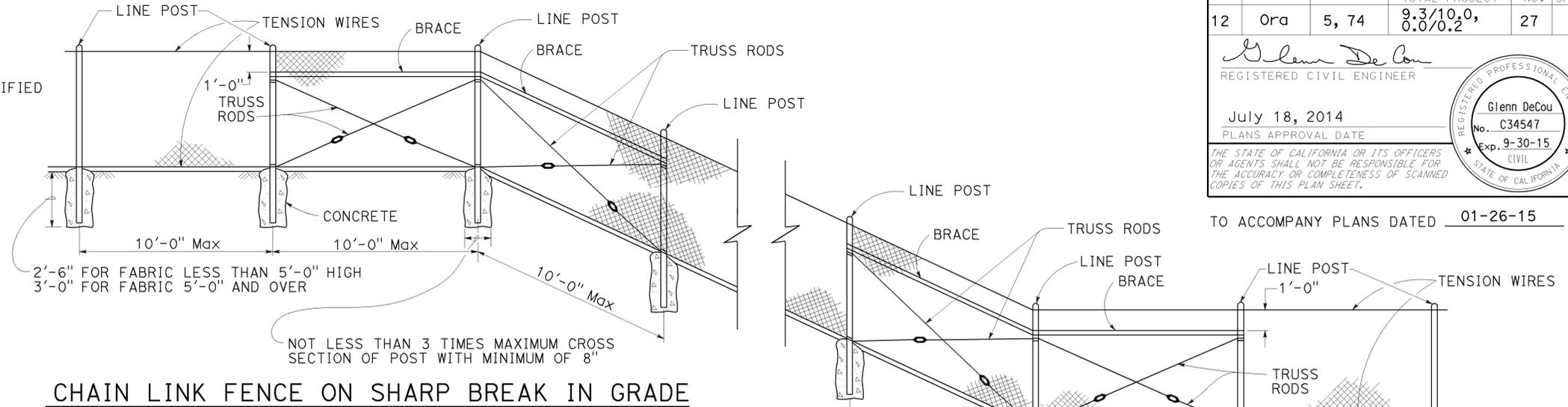
NO SCALE

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

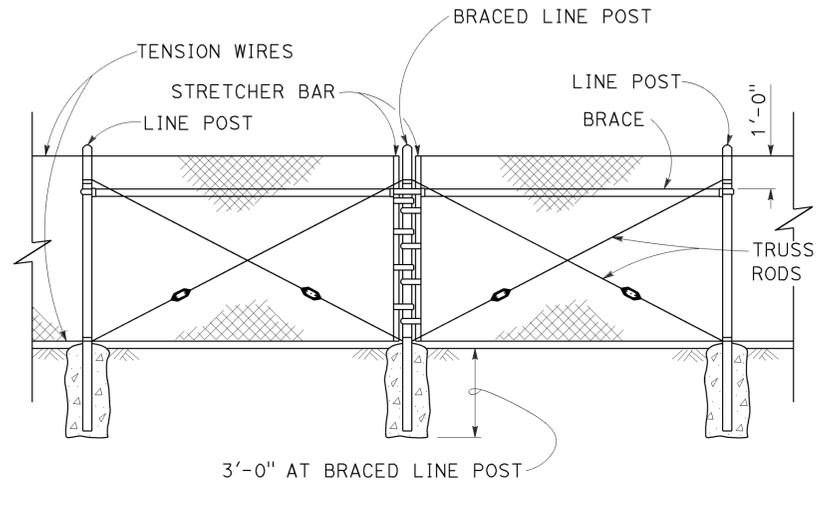
2010 REVISED STANDARD PLAN RSP A10B



FENCE LOCATION

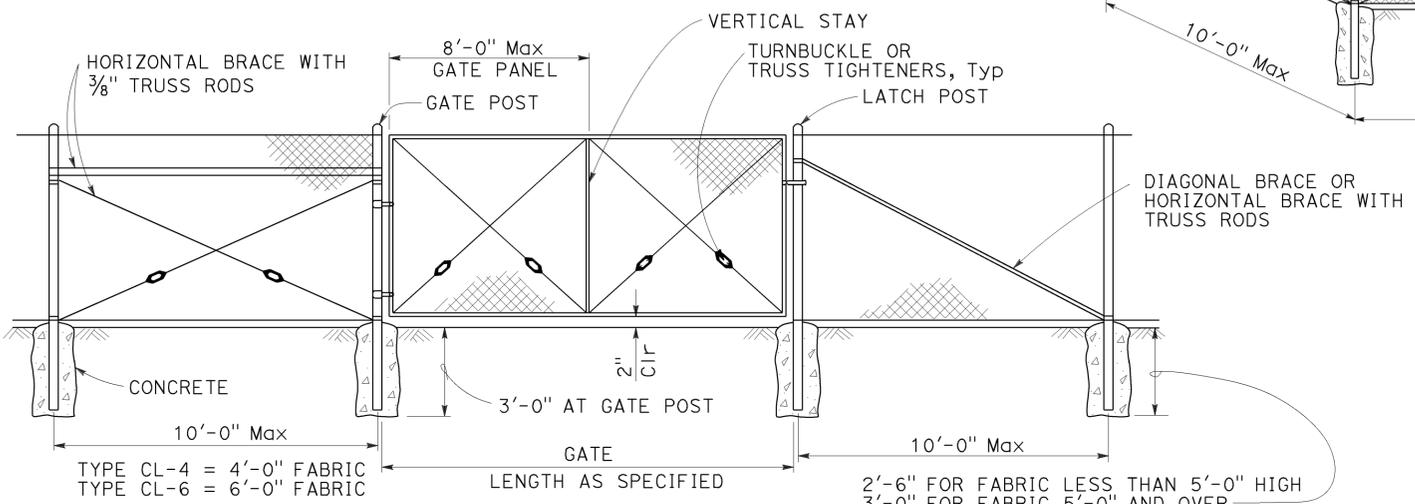


CHAIN LINK FENCE ON SHARP BREAK IN GRADE



BRACED LINE POST INSTALLATION

Braced line post at intervals not exceeding 1000'



CHAIN LINK GATE INSTALLATION

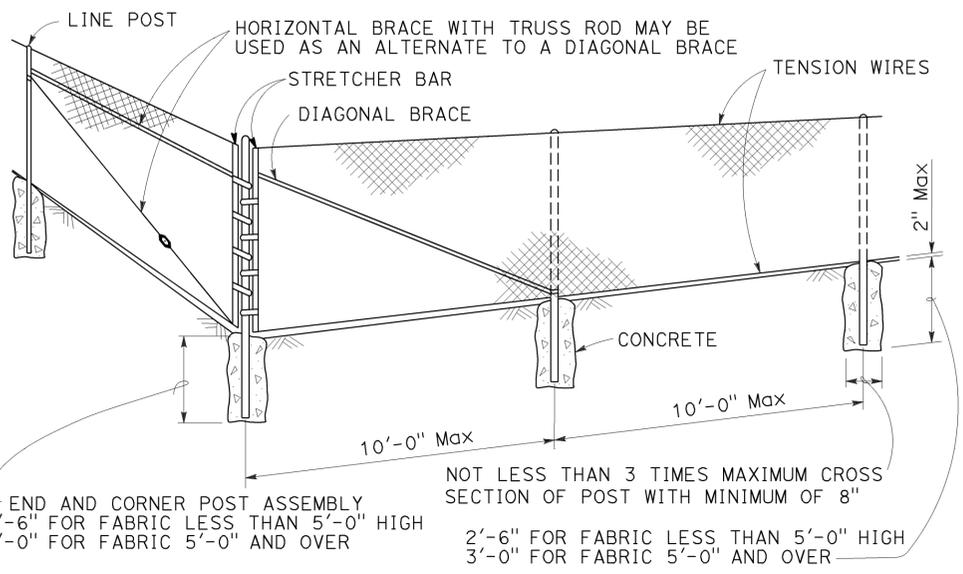
GATE POST			
FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
OVER 6'-0" TO 8'-0" Max	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.

NOTES:

- The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
- Options exercised shall be uniform on any one project.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
- See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

TYPICAL MEMBER DIMENSIONS (See Notes)										
FENCE HEIGHT	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35



CORNER POST

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE
NO SCALE

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85 DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

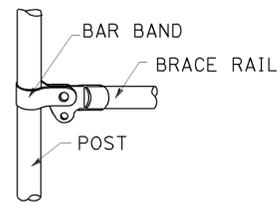
REVISED STANDARD PLAN RSP A85

2010 REVISED STANDARD PLAN RSP A85

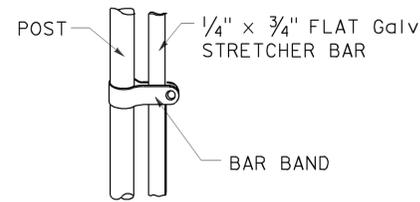
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	28	38

Glenn DeCou
 REGISTERED CIVIL ENGINEER
 October 19, 2012
 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.

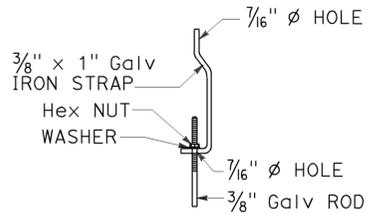
REGISTERED PROFESSIONAL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



BRACE RAIL



STRETCHER BAR

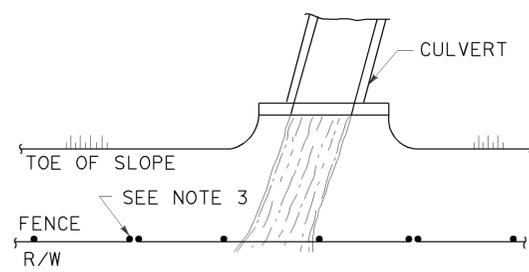


TRUSS TIGHTENER

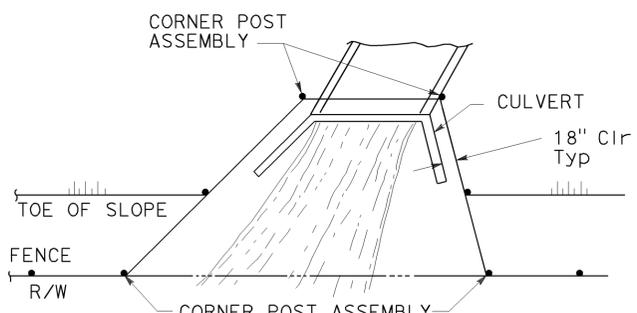
NOTES:

1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.

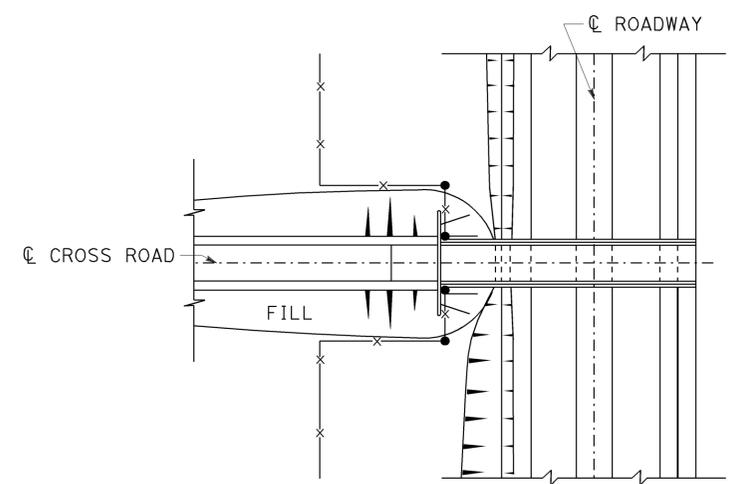
TO ACCOMPANY PLANS DATED 01-26-15



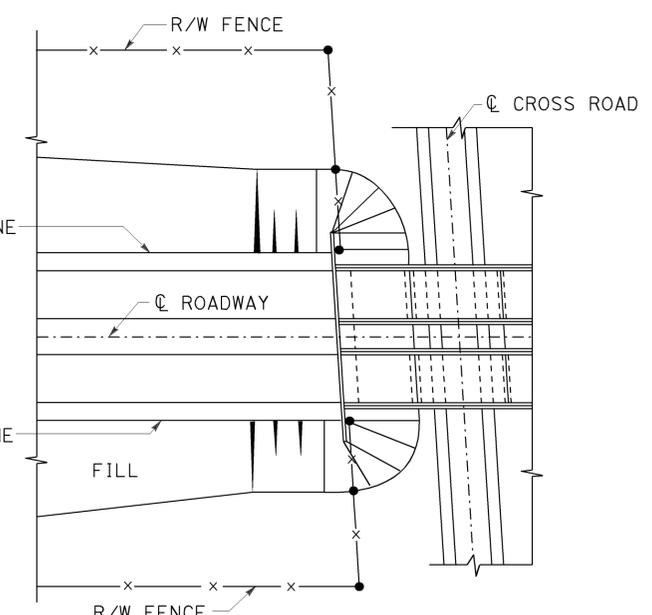
PLAN



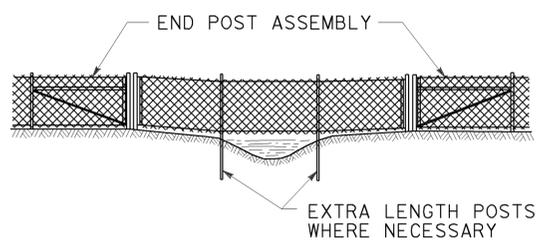
PLAN



PLAN OF ROADWAY - OVERCROSSING

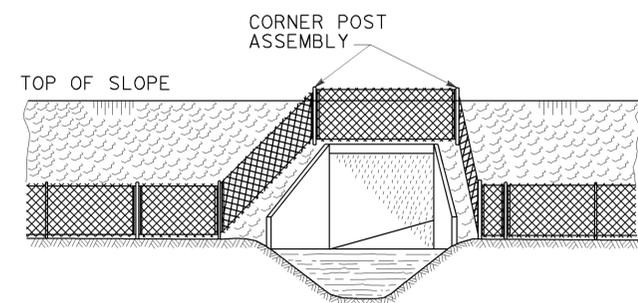


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

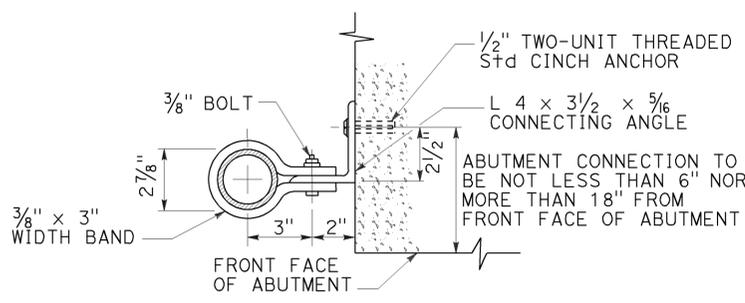
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE DETAILS
 NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

2010 REVISED STANDARD PLAN RSP A85B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	29	38

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 01-26-15

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

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

R

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

S

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

T

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

U

UG UNDERGROUND

W

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

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

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

REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

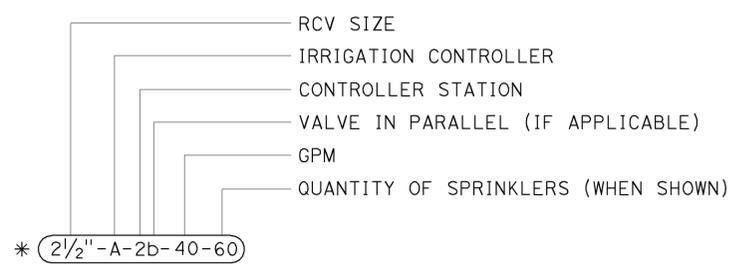
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	30	38

Gregory A. Balzer
 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 01-26-15

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



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

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.

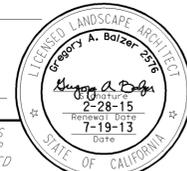
REVISED STANDARD PLAN RSP H2

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

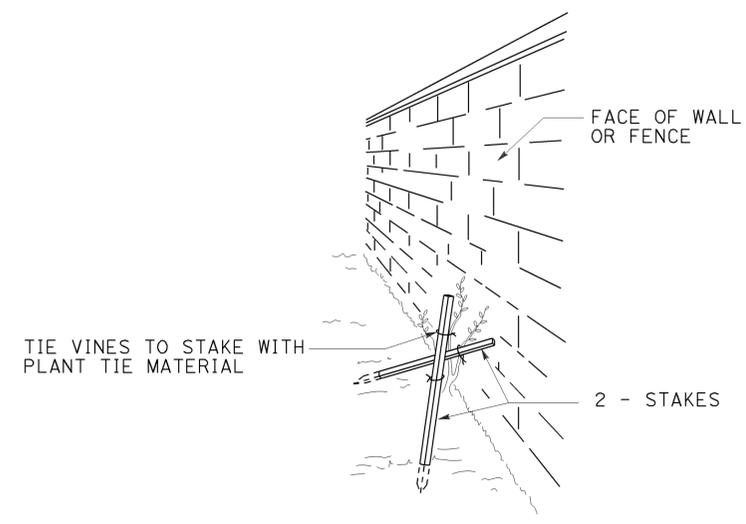
2010 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	31	38

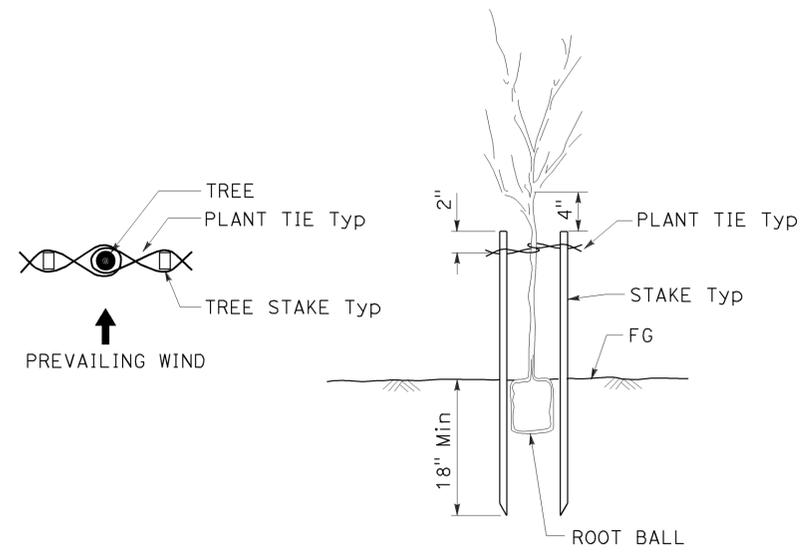
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



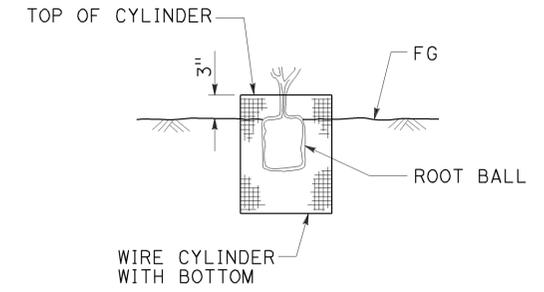
TO ACCOMPANY PLANS DATED 01-26-15



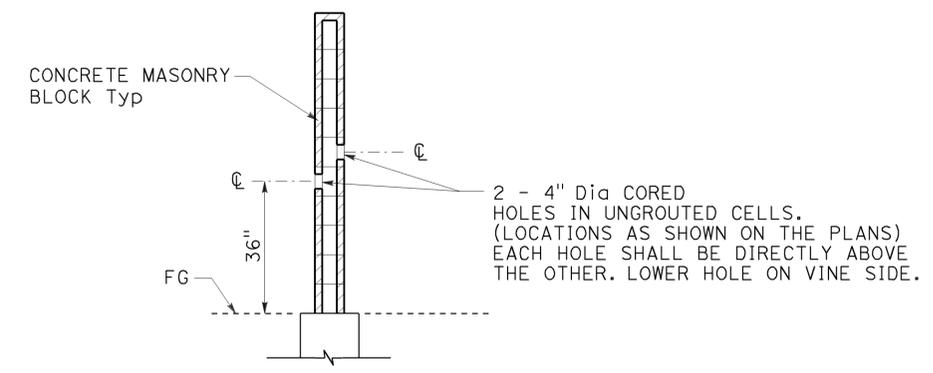
PERSPECTIVE VINE STAKING



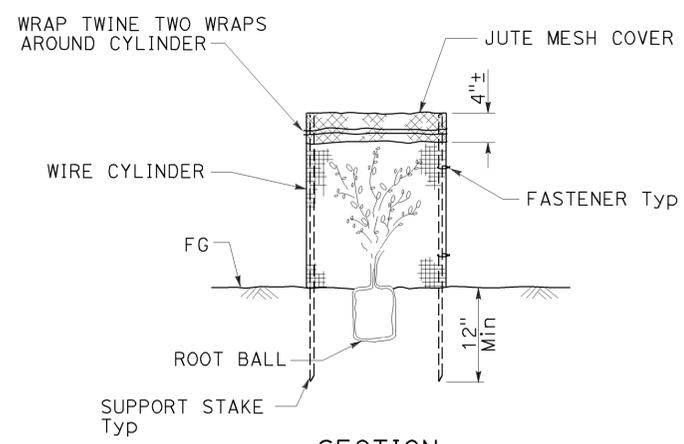
TREE STAKING



SECTION ROOT PROTECTOR



SECTION CORE HOLE (VINE)



SECTION FOLIAGE PROTECTOR

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
 NO SCALE

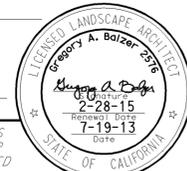
RSP H4 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H4 DATED MAY 20, 2011 - PAGE 221 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H4

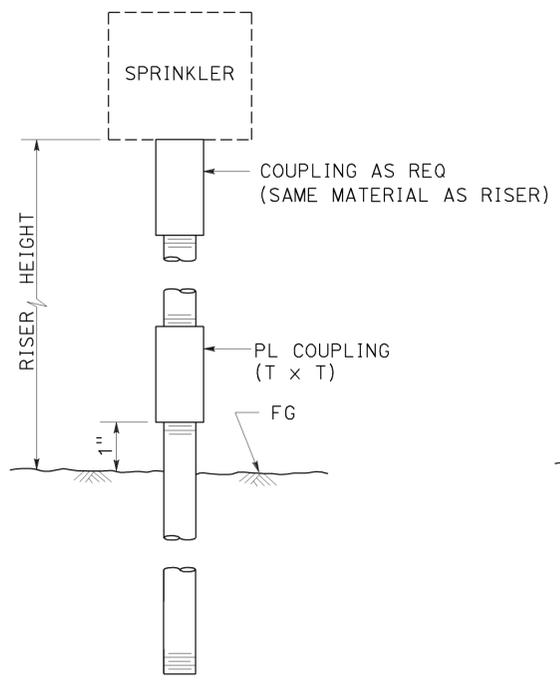
2010 REVISED STANDARD PLAN RSP H4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	32	38

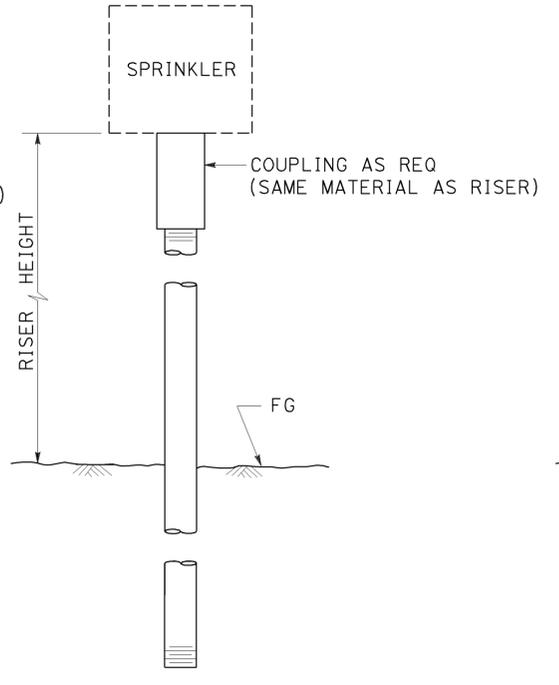
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



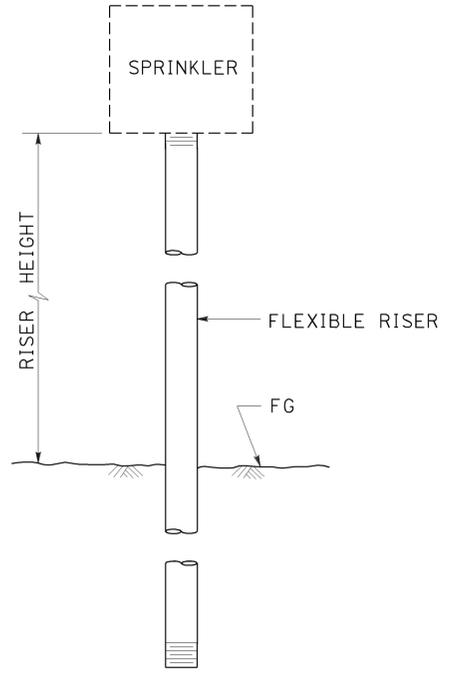
TO ACCOMPANY PLANS DATED 01-26-15



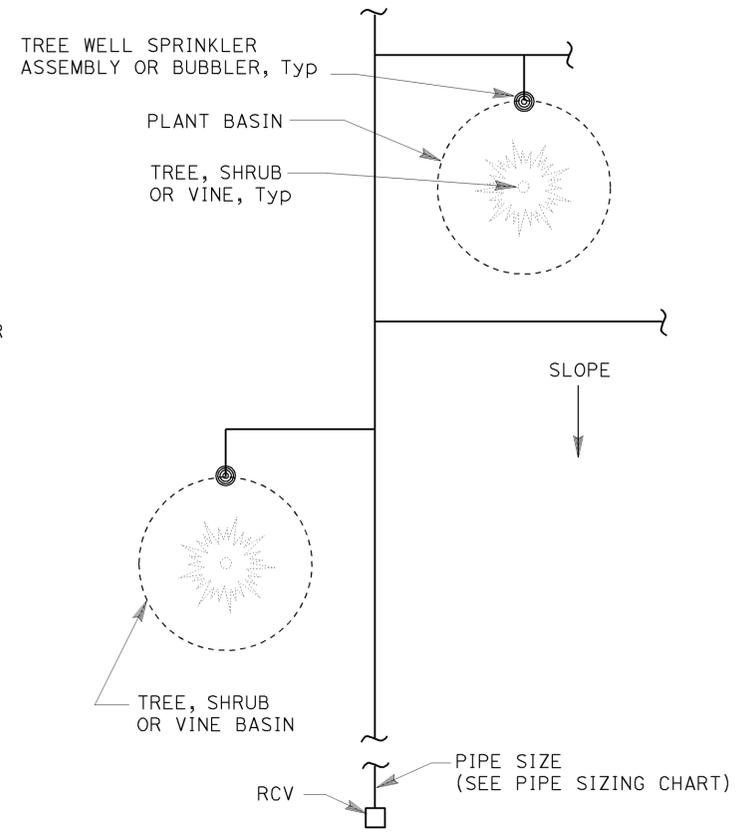
ELEVATION
RISER SPRINKLER ASSEMBLY TYPE I



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE II



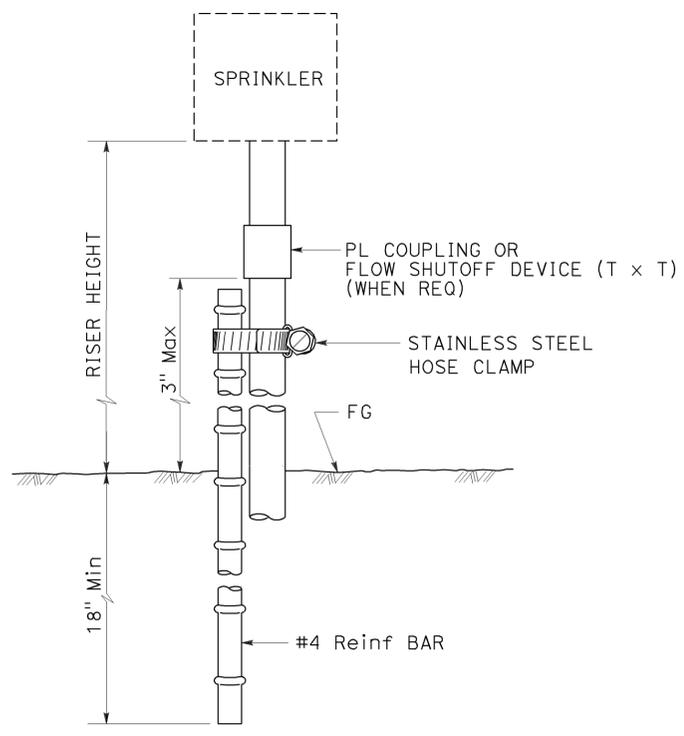
ELEVATION
RISER SPRINKLER ASSEMBLY TYPE III



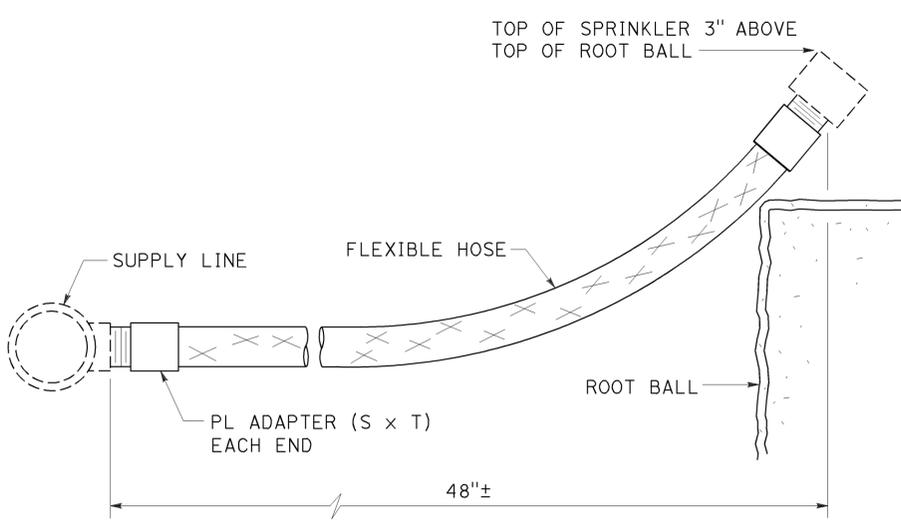
PLAN

NOTES:

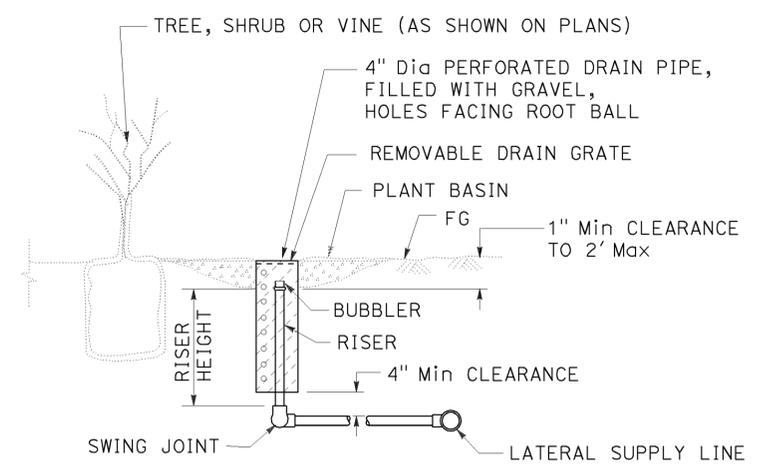
1. Install tree well sprinkler assembly on up-hill side of plant when on slope.
2. Install bubbler within basin.



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE IV



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE V



SECTION
TREE WELL SPRINKLER ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS

NO SCALE

RSP H5 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H5 DATED MAY 20, 2011 - PAGE 222 OF THE STANDARD PLANS BOOK DATED 2010.

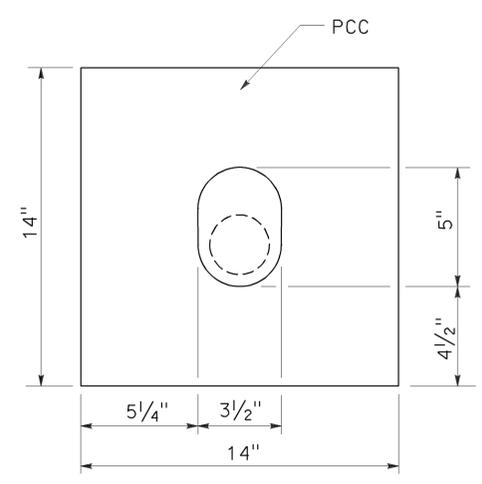
REVISED STANDARD PLAN RSP H5

2010 REVISED STANDARD PLAN RSP H5

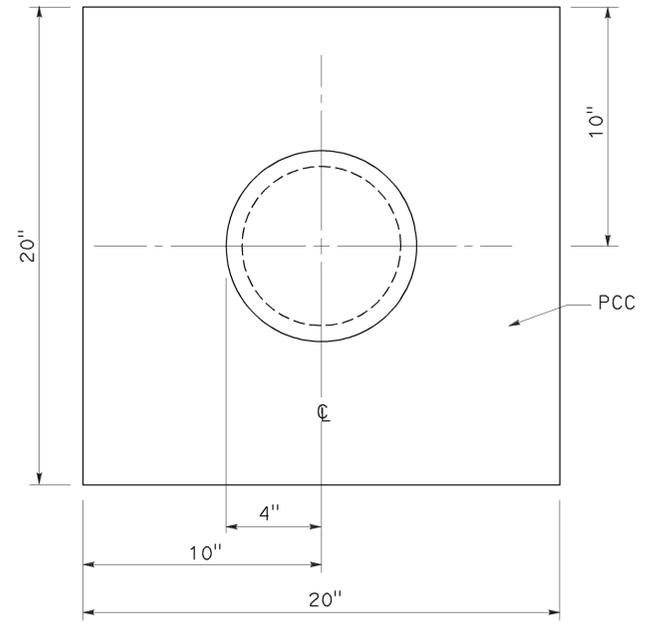
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	33	38

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

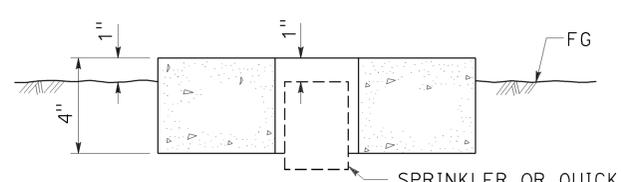
TO ACCOMPANY PLANS DATED 01-26-15



PLAN

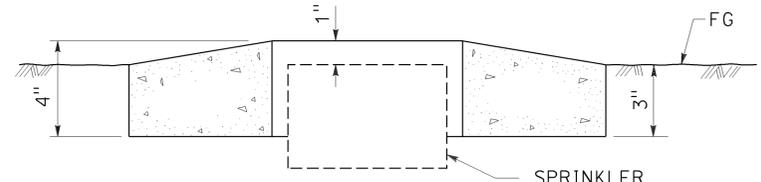


PLAN



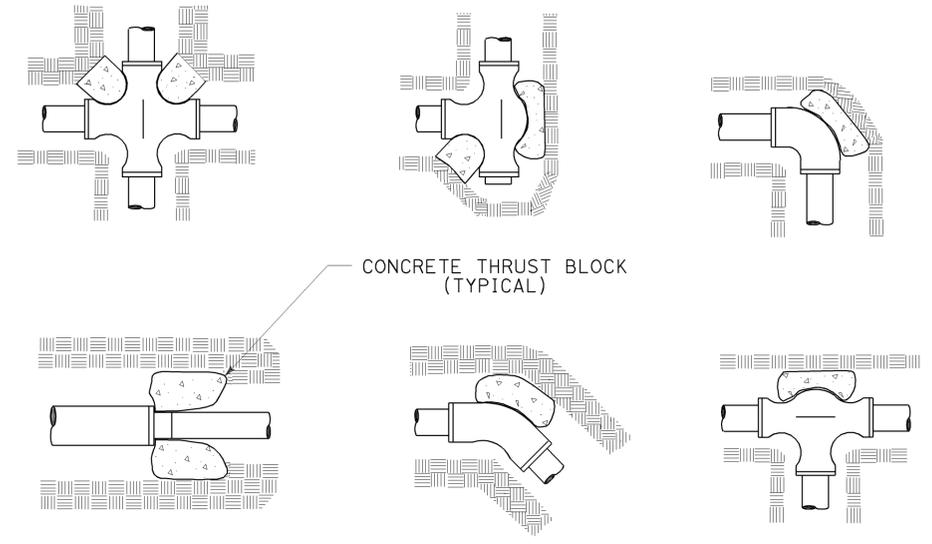
SECTION

SPRINKLER PROTECTOR TYPE I

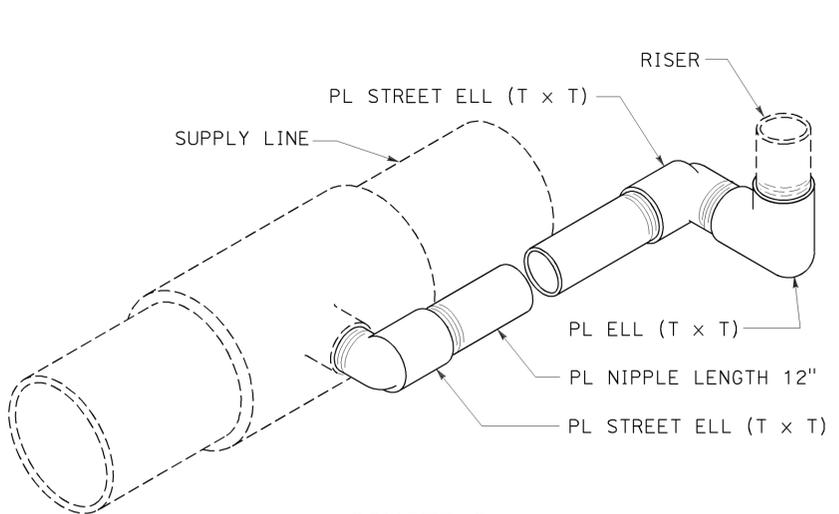


SECTION

SPRINKLER PROTECTOR TYPE II

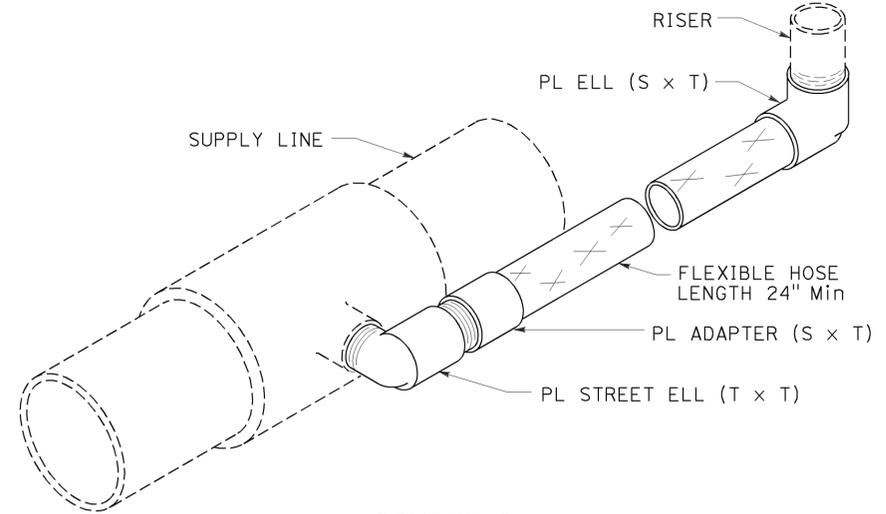


TYPICAL THRUST BLOCKS



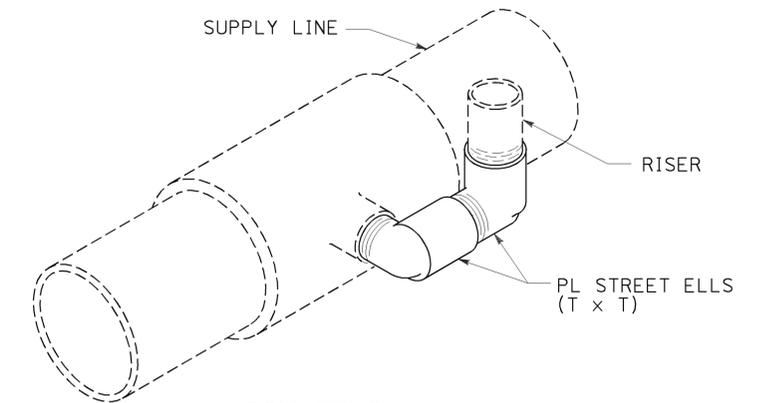
ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE I



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE II



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE III

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS

NO SCALE

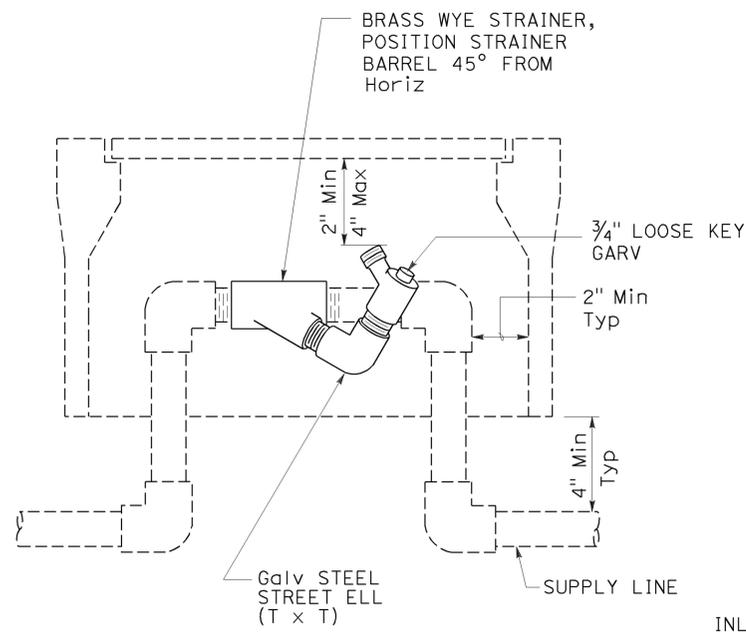
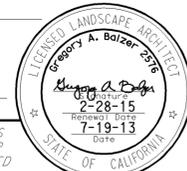
RSP H6 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H6
 DATED MAY 20, 2011 - PAGE 223 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H6

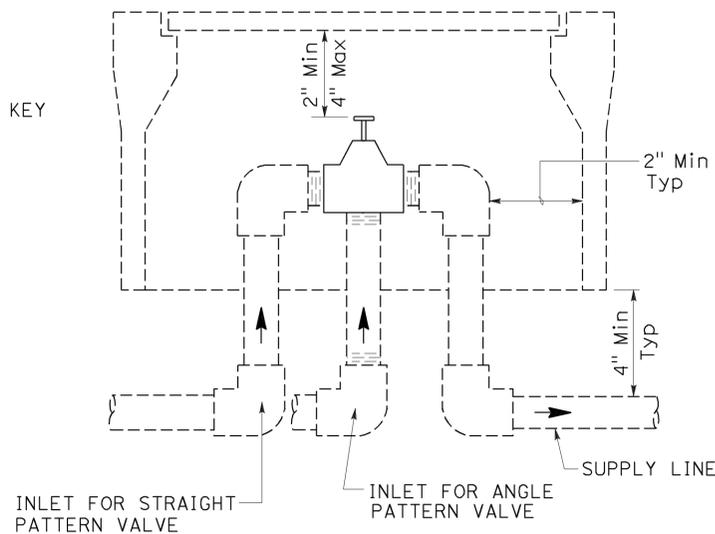
2010 REVISED STANDARD PLAN RSP H6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	34	38

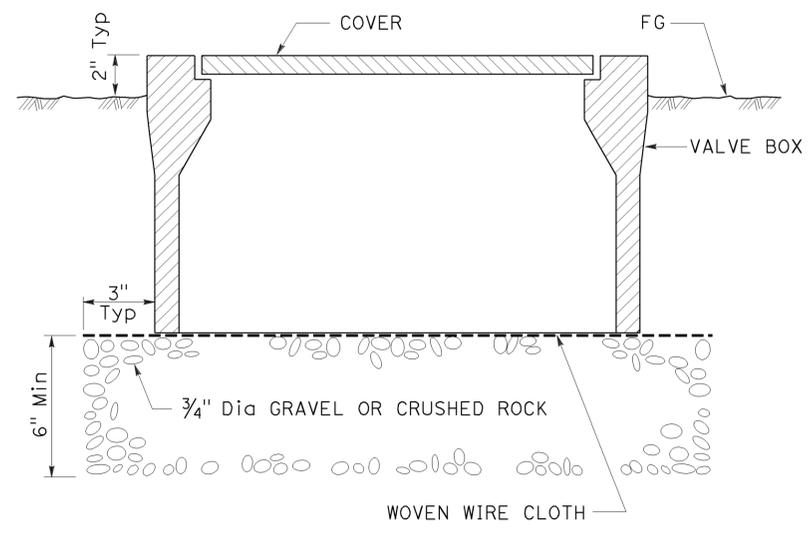
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



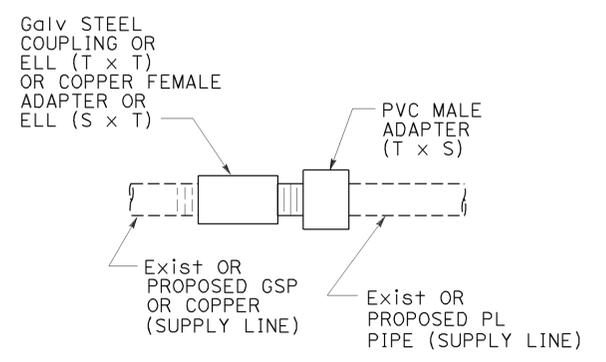
ELEVATION
WYE STRAINER ASSEMBLY



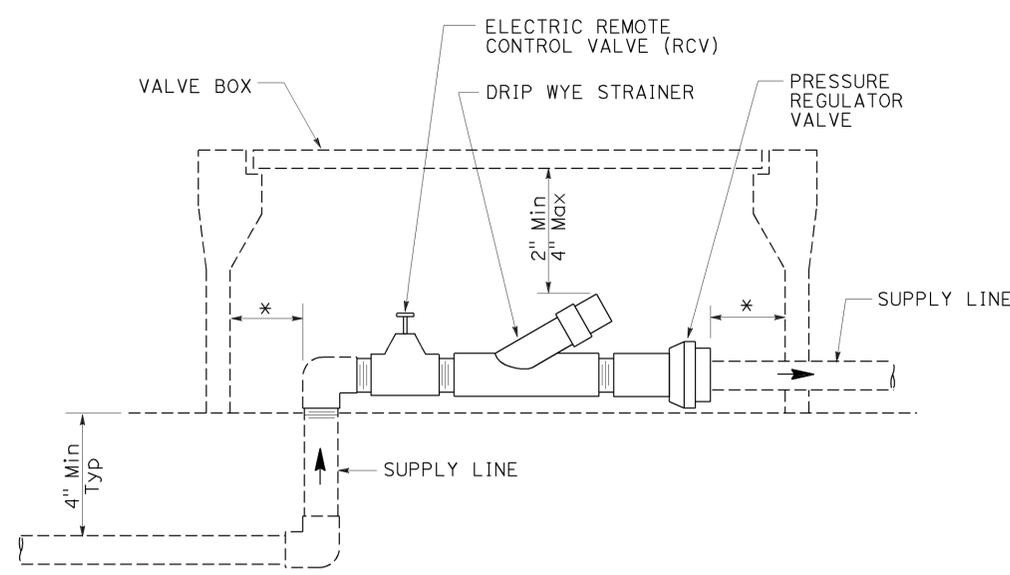
ELEVATION
VALVE



SECTION
VALVE BOX



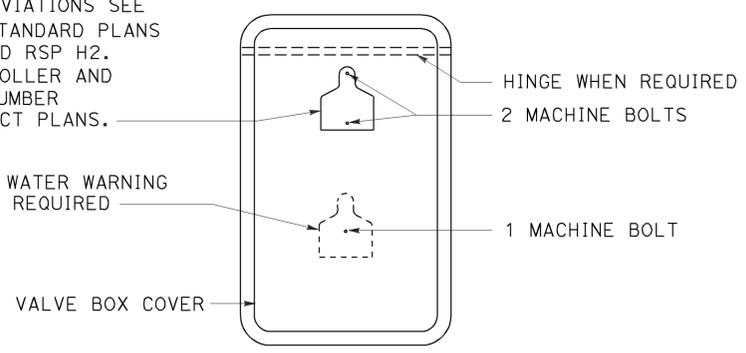
GALVANIZED OR COPPER PIPE CONNECTION TO PLASTIC PIPE



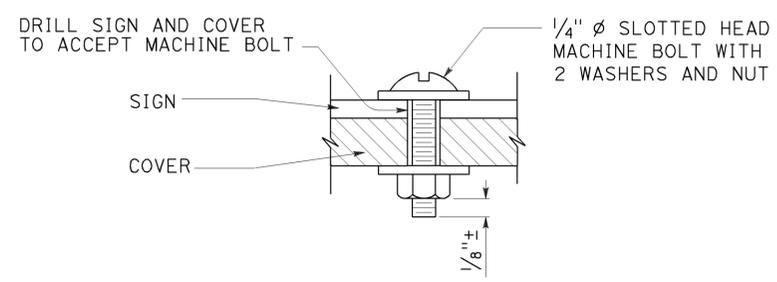
ELEVATION
DRIP VALVE ASSEMBLY

IDENTIFICATION LABEL:
FOR ABBREVIATIONS SEE
REVISED STANDARD PLANS
RSP H1 AND RSP H2.
FOR CONTROLLER AND
STATION NUMBER
SEE PROJECT PLANS.

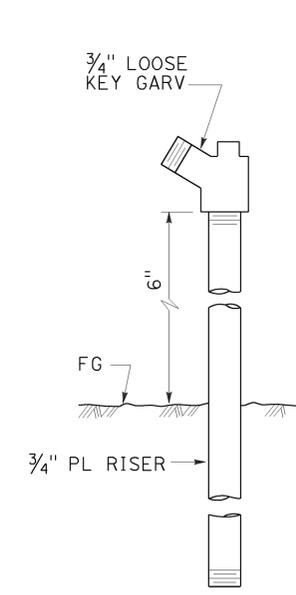
RECYCLED WATER WARNING
SIGN WHEN REQUIRED



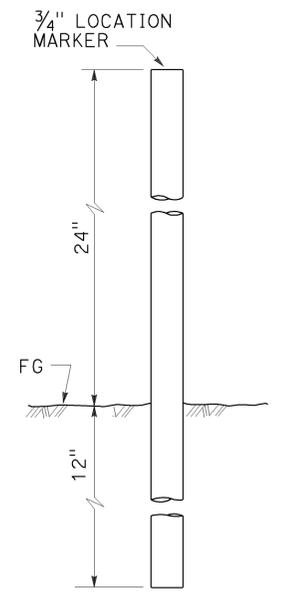
PLAN



SECTION
VALVE BOX IDENTIFICATION



ELEVATION
GARDEN VALVE ASSEMBLY



ELEVATION
LOCATION MARKER

GARDEN VALVE ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H7 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H7
DATED MAY 20, 2011 - PAGE 224 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H7

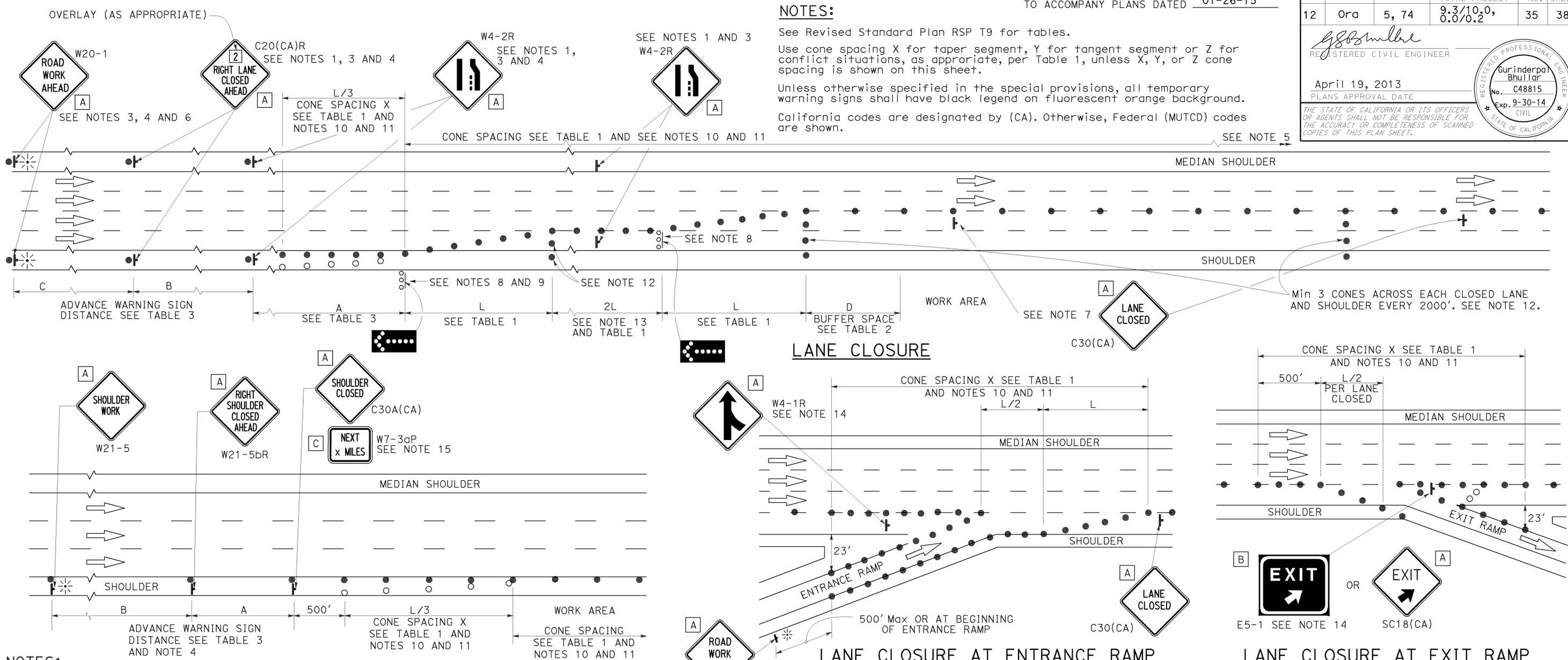
2010 REVISED STANDARD PLAN RSP H7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	35	38

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



NOTES:

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

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

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"

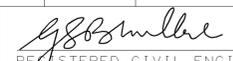
TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS
 NO SCALE

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

REVISED STANDARD PLAN RSP T10

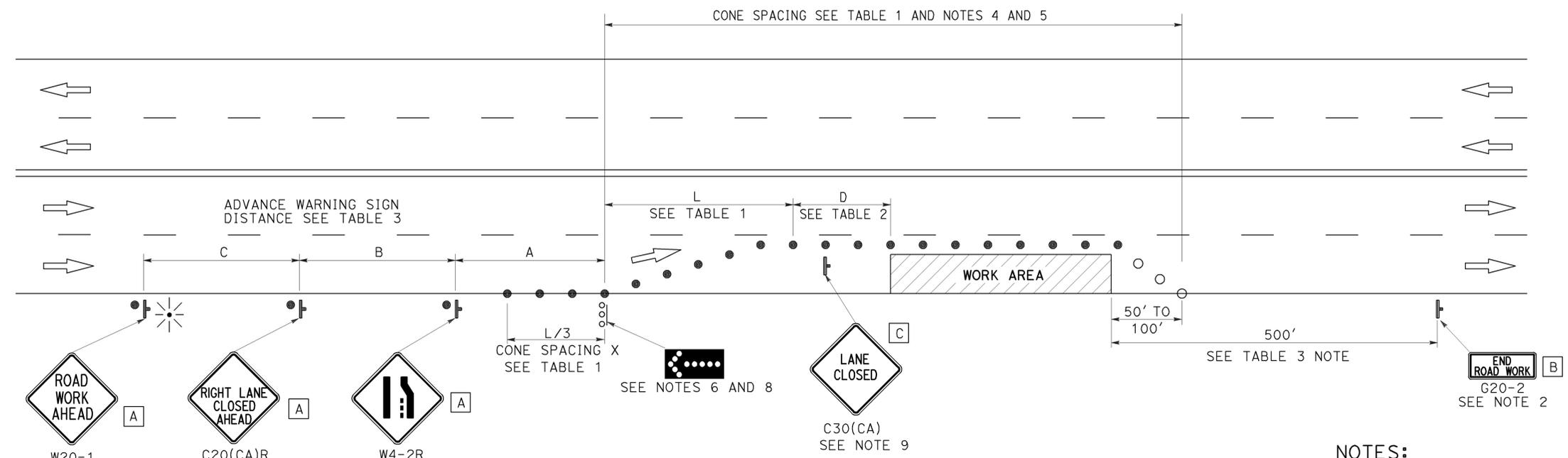
2010 REVISED STANDARD PLAN RSP T10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	36	38


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE


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

TO ACCOMPANY PLANS DATED 01-26-15



TYPICAL LANE CLOSURE

NOTES:

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

NOTES:

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

LEGEND

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

SIGN PANEL SIZE (Min)

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

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

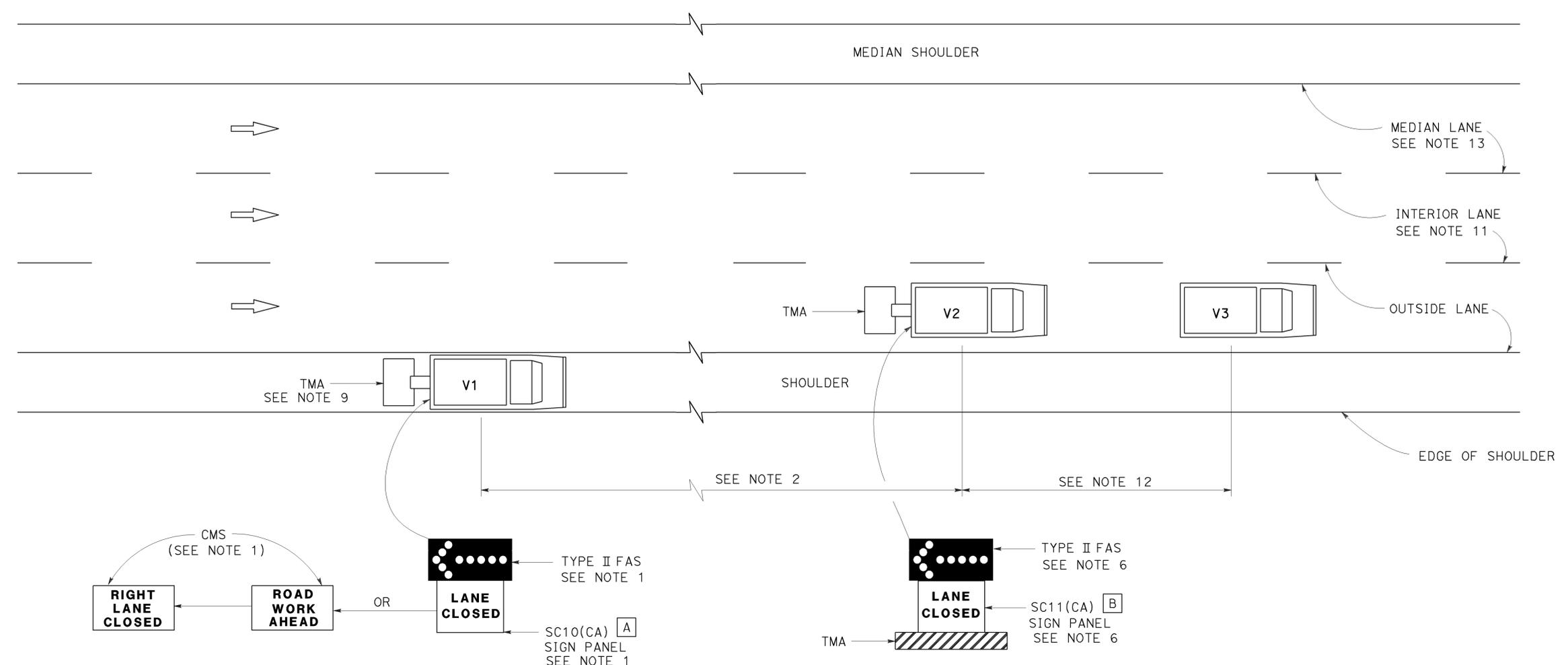
NO SCALE

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

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

TO ACCOMPANY PLANS DATED 01-26-15



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

NOTES:

- Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
- All vehicles shall be equipped with flashing or rotating amber lights.
- If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS
NO SCALE

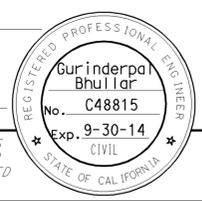
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15 DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

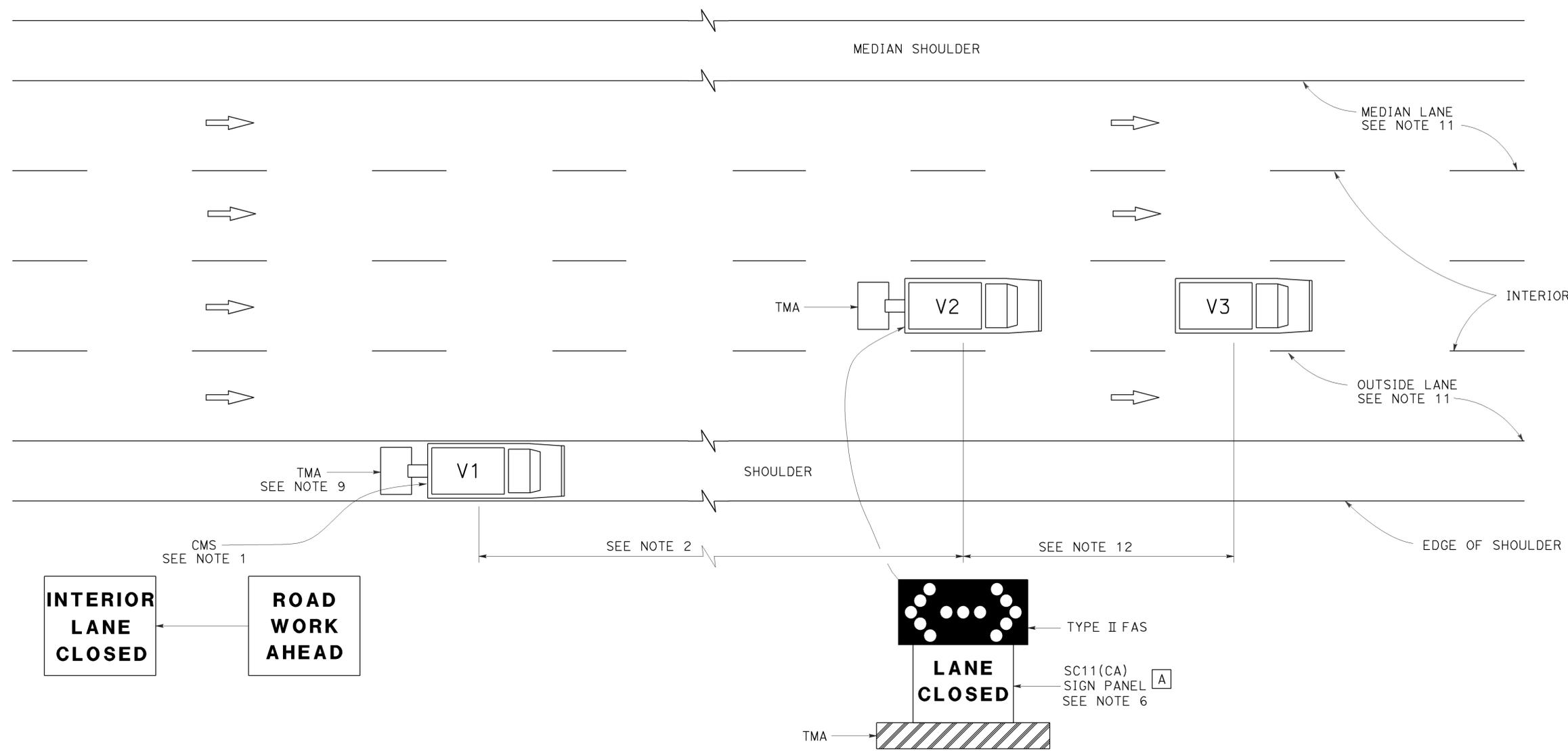
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5, 74	9.3/10.0, 0.0/0.2	38	38

Registered Civil Engineer
 April 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TO ACCOMPANY PLANS DATED 01-26-15



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS**
 NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16 DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16