

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	201	255

<i>Stephen Alvarez</i> LICENSED LANDSCAPE ARCHITECT	
04-08-13 PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	

LICENSED LANDSCAPE ARCHITECT

STEPHEN ALVAREZ NO. 2289

06-30-14

04-02-13

STATE OF CALIFORNIA

NOTES:

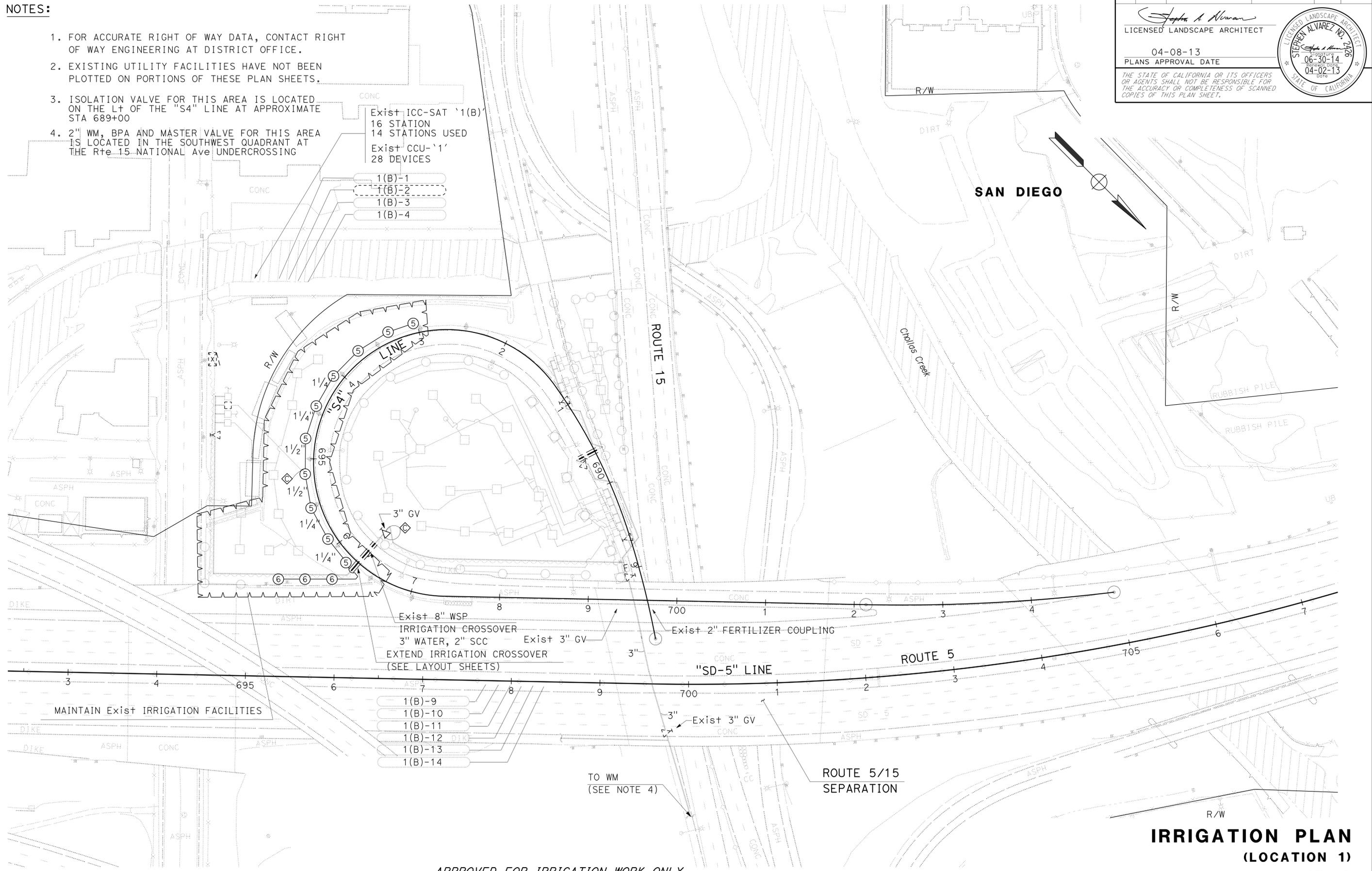
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON PORTIONS OF THESE PLAN SHEETS.
3. ISOLATION VALVE FOR THIS AREA IS LOCATED ON THE L+ OF THE "S4" LINE AT APPROXIMATE STA 689+00
4. 2" WM, BPA AND MASTER VALVE FOR THIS AREA IS LOCATED IN THE SOUTHWEST QUADRANT AT THE Rte 15 NATIONAL Ave UNDERCROSSING

Exist ICC-SAT '1(B)'
16 STATION
14 STATIONS USED

Exist CCU-'1'
28 DEVICES

- 1(B)-1
- 1(B)-2
- 1(B)-3
- 1(B)-4

- 1(B)-9
- 1(B)-10
- 1(B)-11
- 1(B)-12
- 1(B)-13
- 1(B)-14



SAN DIEGO

**IRRIGATION PLAN
(LOCATION 1)
IP-1**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION WORK ONLY

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

USERNAME => s127400
DGN FILE => 1100000531sp001.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 2816

PROJECT NUMBER & PHASE

11000005311

LAST REVISION DATE PLOTTED => 13-MAY-2013
 04-24-13 TIME PLOTTED => 1:3:55

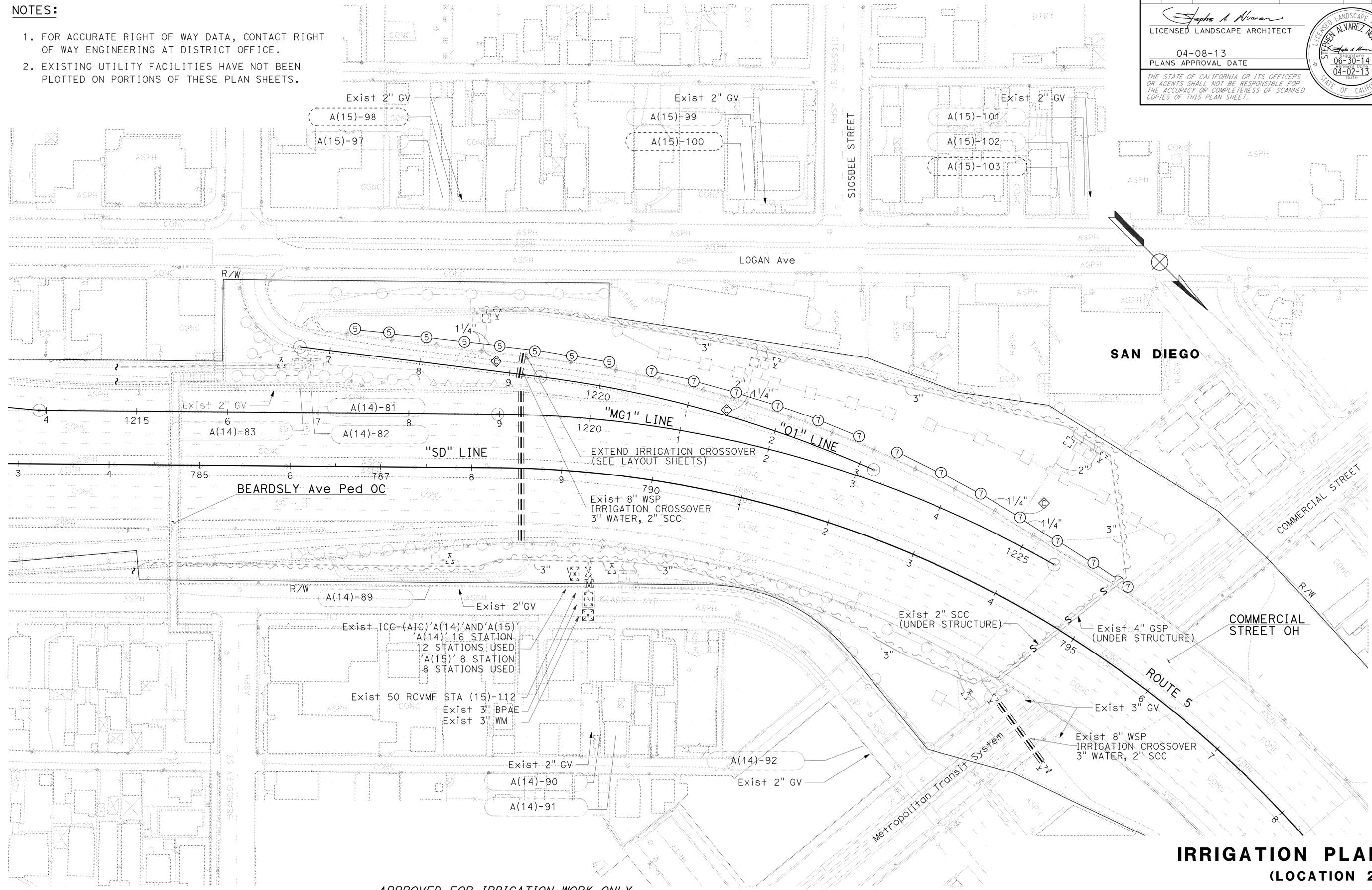
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	202	255

 LICENSED LANDSCAPE ARCHITECT	
04-08-13	
PLANS APPROVAL DATE	
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SAN DIEGO

**IRRIGATION PLAN
(LOCATION 2)
IP-2**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION WORK ONLY

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

USERNAME => s127400
DGN FILE => 1100000531sp002.dgn

RELATIVE BORDER SCALE IS IN INCHES



UNIT 2816

PROJECT NUMBER & PHASE

11000005311

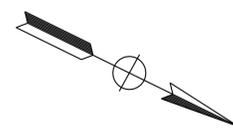
LAST REVISION: DATE PLOTTED => 13-MAY-2013
 04-24-13 TIME PLOTTED => 1:3:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	203	255

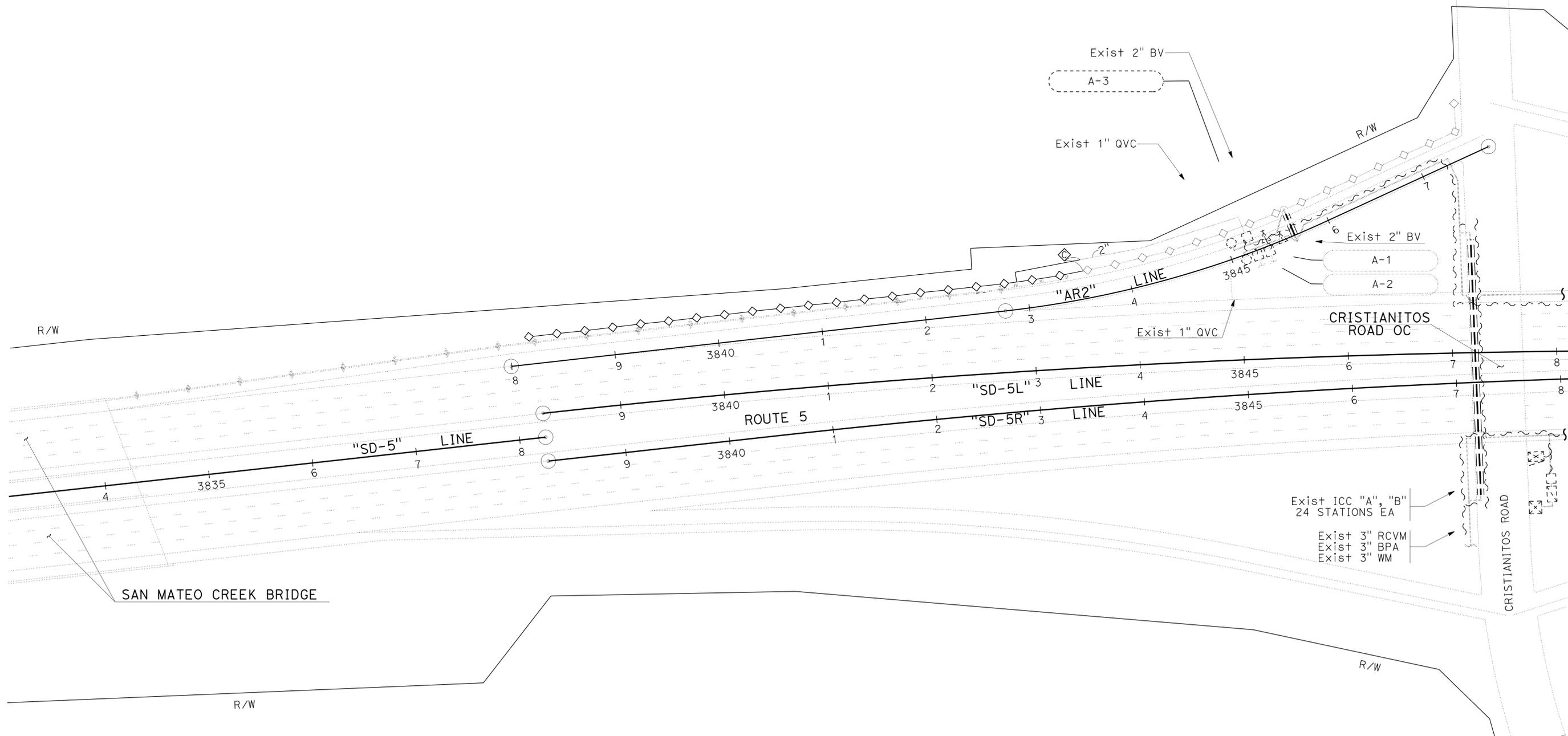
Signature: *Stephen Alvarez*
 LICENSED LANDSCAPE ARCHITECT
 04-08-13
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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SAN DIEGO



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

APPROVED FOR IRRIGATION WORK ONLY

SCALE: 1" = 50'

IRRIGATION PLAN
(LOCATION 8)
IP-3

LAST REVISION | DATE PLOTTED => 13-MAY-2013 | TIME PLOTTED => 1:3:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	204	255

 LICENSED LANDSCAPE ARCHITECT		
04-08-13 PLANS APPROVAL DATE		

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SAN DIEGO



- 25(C)-5
- 25(C)-4
- 25(C)-3-196
- 25(C)-2
- 25(C)-1-147

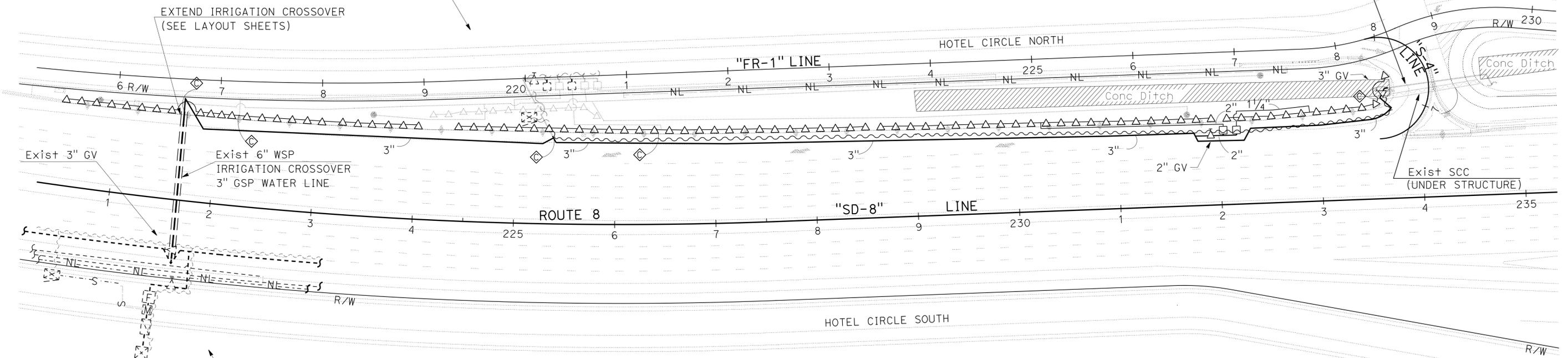
Exist 2" GV

Exist 28 CHANNEL CCU
ICC-SAT 25(C)
16 STATION
11 STATIONS USED

EXTEND IRRIGATION CROSSOVER
(SEE LAYOUT SHEETS)

- 1"-25(C)-7-22
- 1"-25(C)-6-42

Exist 3" GSP
(UNDER STRUCTURE)



- Exist 3" GV
- Exist 2" FERTILIZER COUPLING
- Exist 2" RCVMF Sta No '25(B)-24'
- Exist 2" BPAE
- Exist 2" WM

Exist ICC-SAT 25(B)
24 STATION
21 STATIONS USED

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

APPROVED FOR IRRIGATION WORK ONLY

SCALE: 1" = 50'

**IRRIGATION PLAN
(LOCATION 11)
IP-4**

LAST REVISION DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 1:3:55
 04-24-13

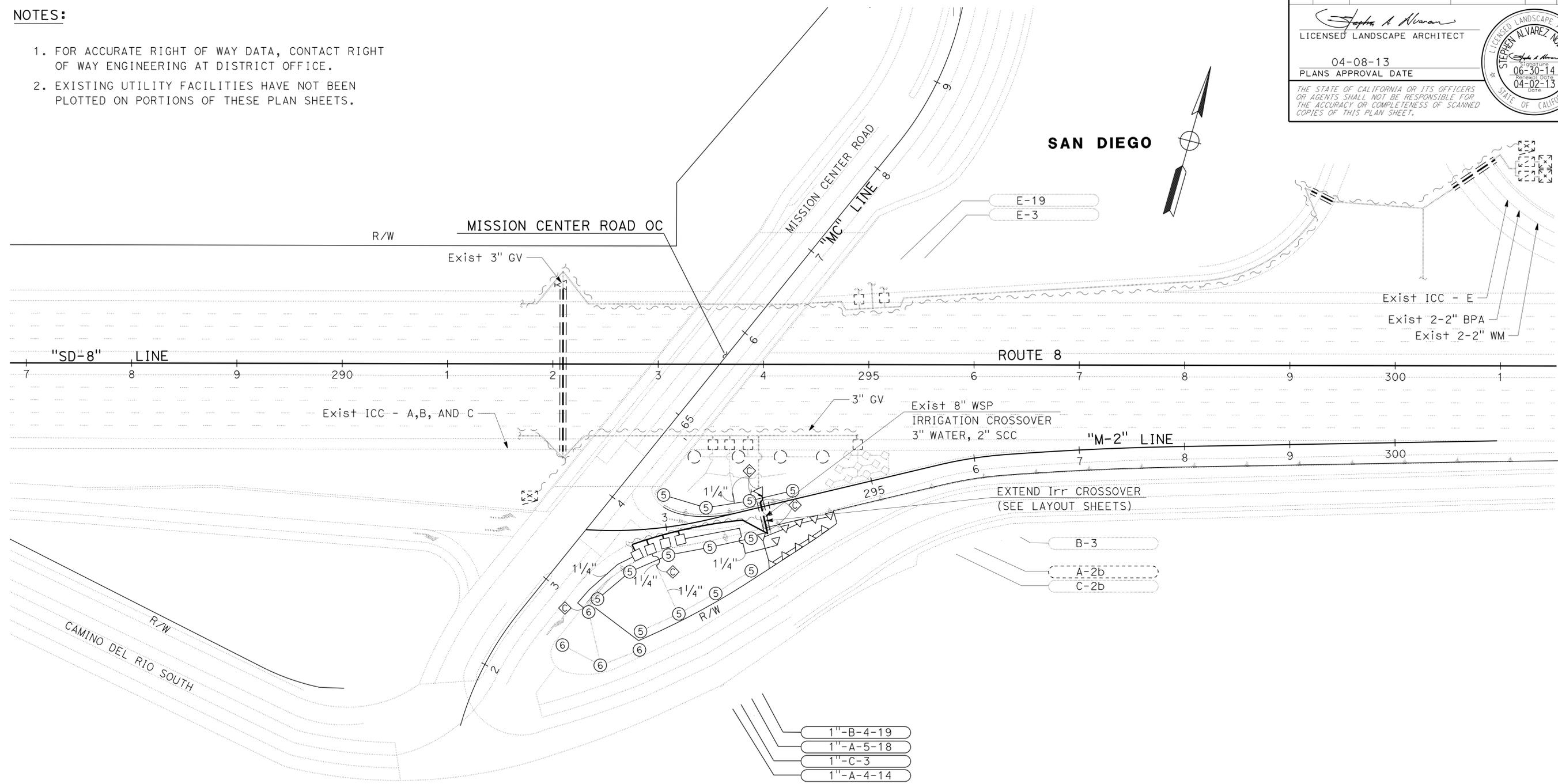
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	205	255

Stephen Alvarez
 LICENSED LANDSCAPE ARCHITECT
 04-08-13
 PLANS APPROVAL DATE
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
Caltrans	
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED-DESIGNED BY	CHECKED BY
RUDY MEDINA	STEPHEN ALVAREZ
REVISED BY	DATE REVISED



APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 (LOCATION 13)
IP-5
 SCALE: 1" = 50'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	206	255

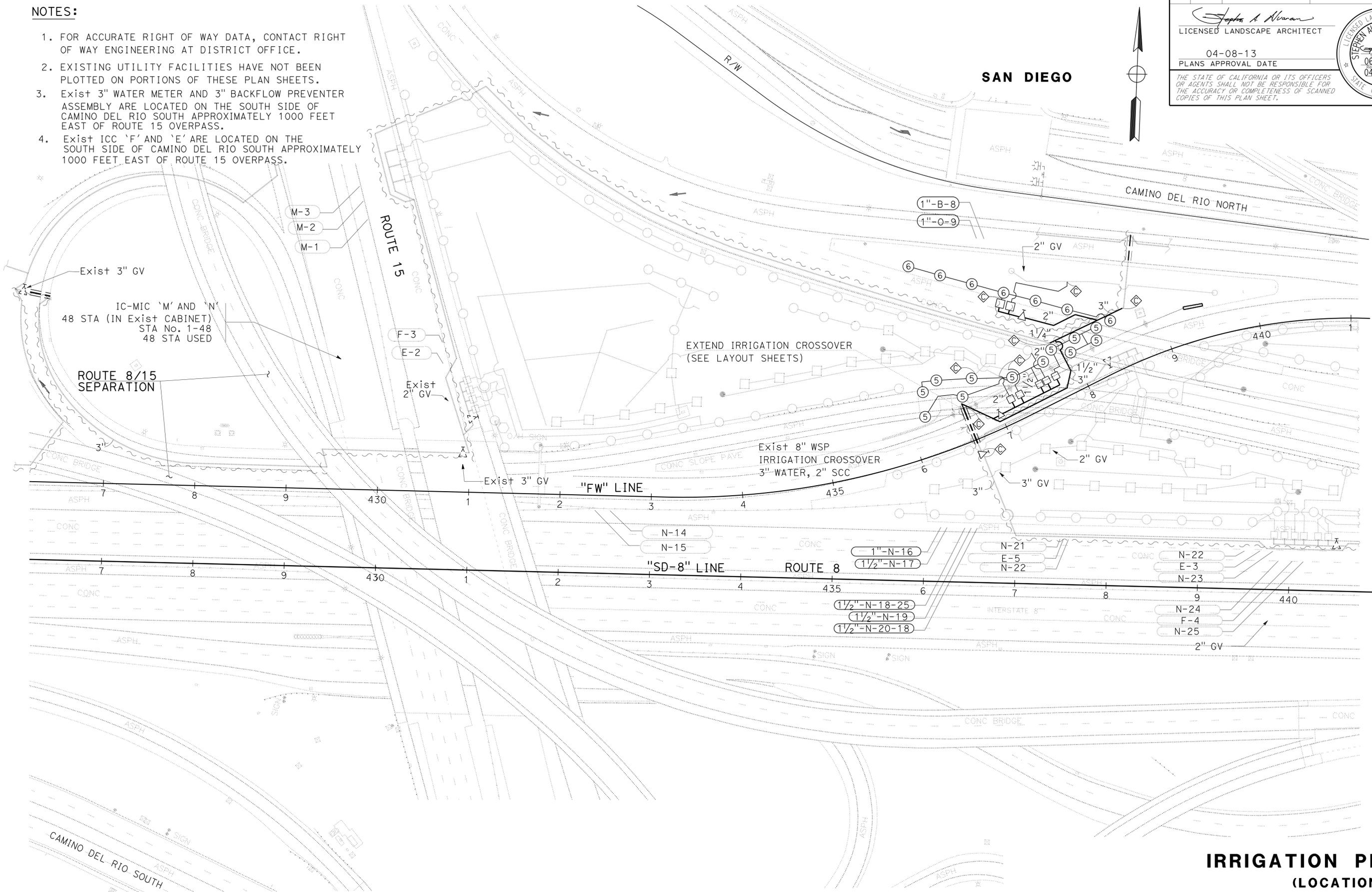
 LICENSED LANDSCAPE ARCHITECT	
04-08-13	
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

	
06-30-14	04-02-13
Signature	Date

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- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON PORTIONS OF THESE PLAN SHEETS.
- Exist 3" WATER METER AND 3" BACKFLOW PREVENTER ASSEMBLY ARE LOCATED ON THE SOUTH SIDE OF CAMINO DEL RIO SOUTH APPROXIMATELY 1000 FEET EAST OF ROUTE 15 OVERPASS.
- Exist ICC 'F' AND 'E' ARE LOCATED ON THE SOUTH SIDE OF CAMINO DEL RIO SOUTH APPROXIMATELY 1000 FEET EAST OF ROUTE 15 OVERPASS.

SAN DIEGO



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

APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN
(LOCATION 17)
IP-6**

SCALE: 1" = 50'

LAST REVISION: DATE PLOTTED => 13-MAY-2013
 04-24-13 TIME PLOTTED => 13:55

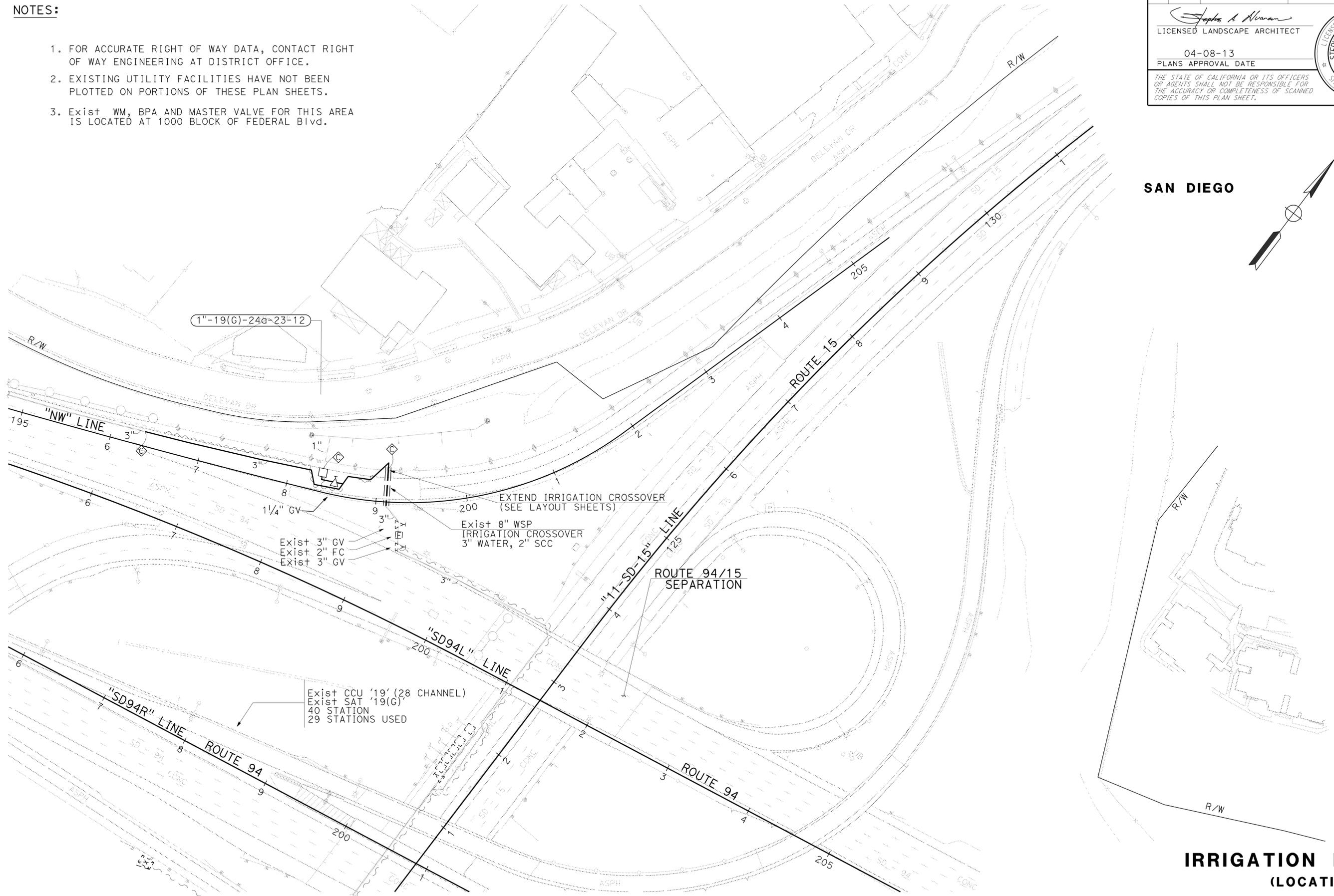
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	207	255

 LICENSED LANDSCAPE ARCHITECT		
04-08-13 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

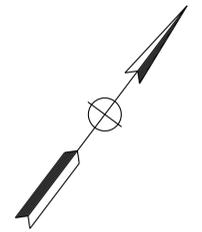
NOTES:

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2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON PORTIONS OF THESE PLAN SHEETS.
3. Exist WM, BPA AND MASTER VALVE FOR THIS AREA IS LOCATED AT 1000 BLOCK OF FEDERAL Blvd.

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



SAN DIEGO



**IRRIGATION PLAN
(LOCATION 20)
IP-7**

SCALE: 1" = 50'

APPROVED FOR IRRIGATION WORK ONLY

LAST REVISION: DATE PLOTTED => 13-MAY-2013
 04-24-13 TIME PLOTTED => 1:3:55

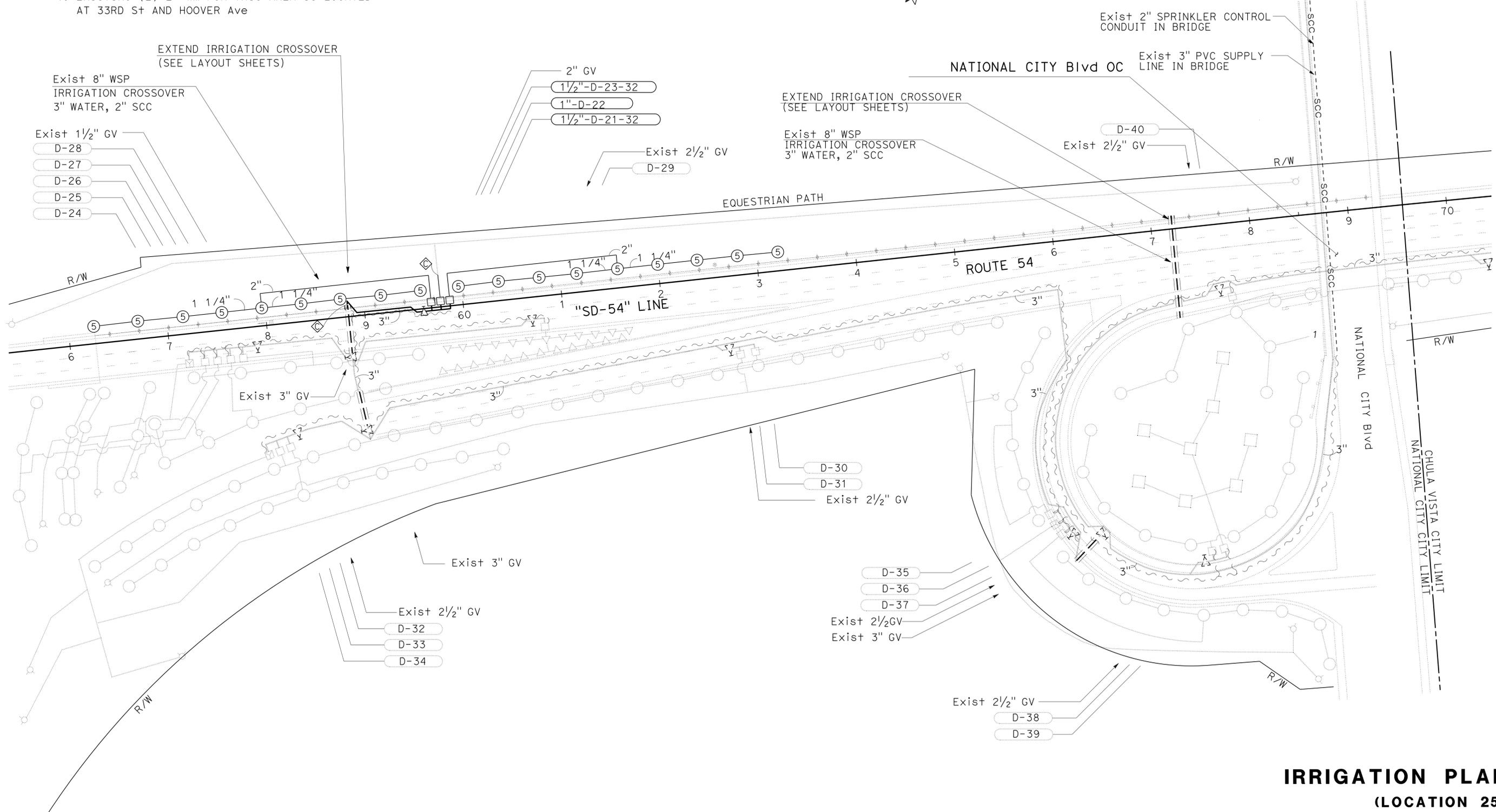
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	208	255

 LICENSED LANDSCAPE ARCHITECT		
04-08-13 PLANS APPROVAL DATE		
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- EXISTING IC "D" IS LOCATED AT WEST BOUND 54 OFF AT NATIONAL CITY BLVD
- EXISTING (2) 2" WM FOR THIS AREA IS LOCATED AT 33RD St AND HOOVER Ave

NATIONAL CITY



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

APPROVED FOR IRRIGATION WORK ONLY

SCALE: 1" = 50'

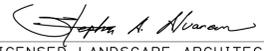
IRRIGATION PLAN
(LOCATION 25)
IP-8

SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	SHEET NUMBER								SUBTOTALS
		IP-1	IP-2	IP-3	IP-4	IP-5	IP-6	IP-7	IP-8	
BPA	1 INCH	EA								
	2 INCH	EA								
	3 INCH	EA								
WATER METER	ENCLOSURE	EA								
	1 INCH	EA								
	2 INCH	EA								
BOOSTER PUMP	3 INCH	EA								
	6 CHANNEL	EA								
	28 CHANNEL	EA								
IRRIGATION CONTROLLER	16 STATION	EA								
	24 STATION	EA								
	32 STATION	EA								
	40 STATION	EA								
	TYPE A	EA								
	TYPE B	EA								
VALVES AND ASSEMBLIES	2 INCH	EA								
	3 INCH	EA								
	1 INCH	EA				2	4	3	1	1
RCV	1 1/2 INCH	EA						4		2
	2 INCH	EA								
	1 INCH	EA								
GV	1 1/4 INCH	EA							1	
	1 1/2 INCH	EA								
	2 INCH	EA				1		2		1
FAUFIA	3 INCH	EA	1			1	1	1		
	1 " INCH	EA								
	1 1/2 INCH	EA								
CONDUIT	1 INCH	LF								
	1 1/4 INCH	LF							20	20
	1 1/2 INCH	LF								
PLASTIC PIPE SUPPLY LINE	2 INCH	LF					100		20	120
	3 INCH	LF				1,260	140	340	320	100
DIP GSP										

TOTAL QUANTITIES

TOTALS	UNIT	DESCRIPTION	
	EA	1 INCH	BPA
	EA	2 INCH	
	EA	3 INCH	
	EA	ENCLOSURE	WATER METER
	EA	1 INCH	
	EA	2 INCH	
	EA	3 INCH	BOOSTER PUMP
	EA	6 CHANNEL	
	EA	28 CHANNEL	IRRIGATION CONTROLLER
	EA	16 STATION	
	EA	24 STATION	
	EA	32 STATION	
	EA	40 STATION	RCV
	EA	TYPE A	
	EA	TYPE B	VALVES AND ASSEMBLIES
	EA	2 INCH	
	EA	3 INCH	
11	EA	1 INCH	GV
6	EA	1 1/2 INCH	
	EA	2 INCH	RCV
	EA	1 INCH	
1	EA	1 1/4 INCH	
	EA	1 1/2 INCH	FAUFIA
4	EA	2 INCH	
4	EA	3 INCH	CONDUIT
	EA	1 INCH	
	EA	1 1/2 INCH	PLASTIC PIPE SUPPLY LINE
	LF	1 INCH	
3,397	LF	1 1/4 INCH	
1,476	LF	1 1/2 INCH	DIP GSP
440	LF	2 INCH	
727	LF	3 INCH	
2,160	LF		SPRINKLER TYPE
	EA	A-5	
61	EA	A-6	
14	EA	A-7	
13	EA	B-1	
98	EA	B-5	
20	EA		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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 LICENSED LANDSCAPE ARCHITECT					
04-08-13		PLANS APPROVAL DATE			
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IRRIGATION QUANTITIES IQ-2



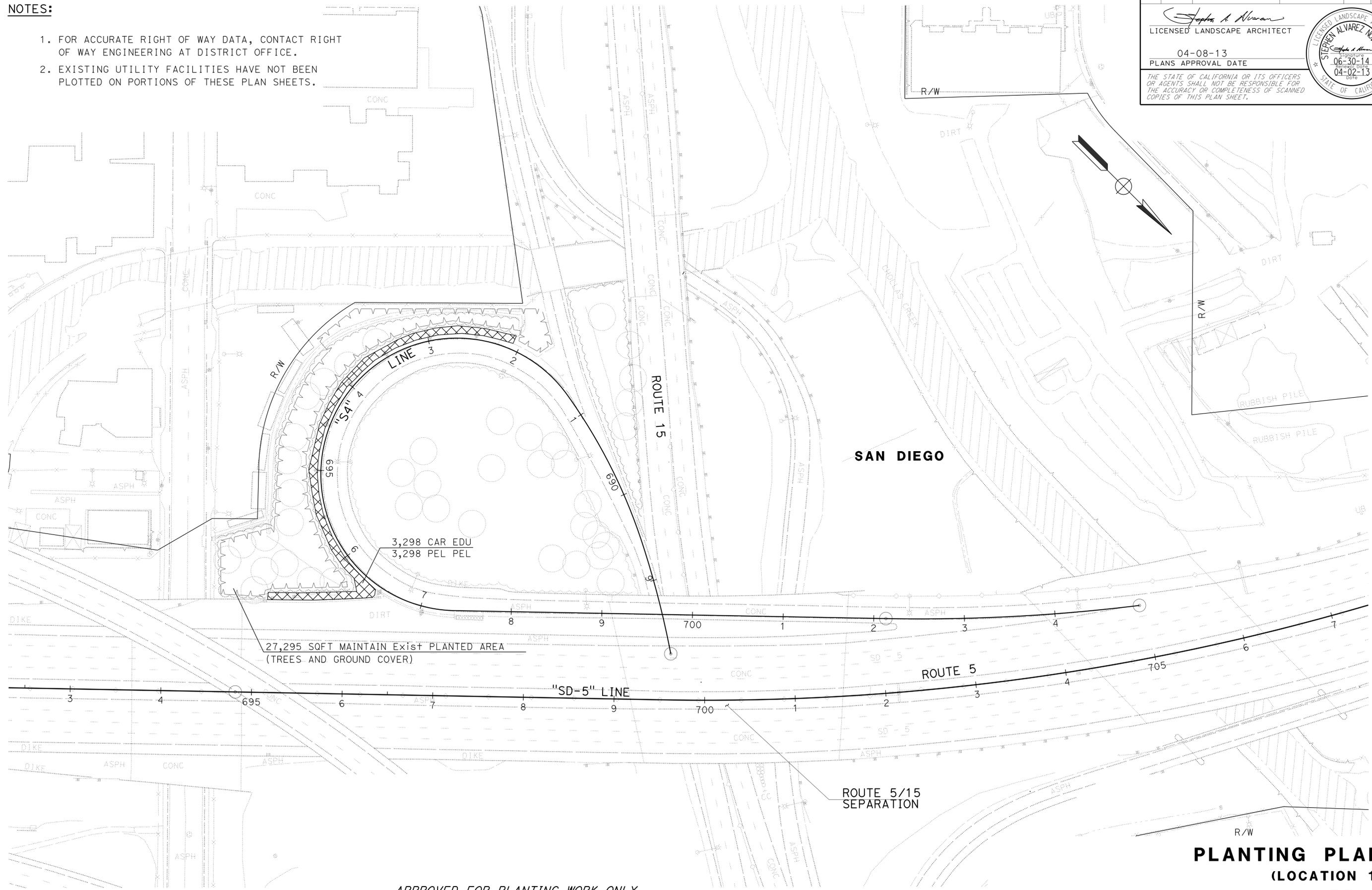
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	212	255

 LICENSED LANDSCAPE ARCHITECT		
04-08-13 PLANS APPROVAL DATE		
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	STEPHEN ALVAREZ	CHECKED BY	RUDY MEDINA	
			STEPHEN ALVAREZ	



27,295 SQFT MAINTAIN EXIST PLANTED AREA
(TREES AND GROUND COVER)

3,298 CAR EDU
3,298 PEL PEL

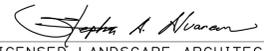
SAN DIEGO

**PLANTING PLAN
(LOCATION 1)
PP-1**

SCALE: 1" = 50'

APPROVED FOR PLANTING WORK ONLY

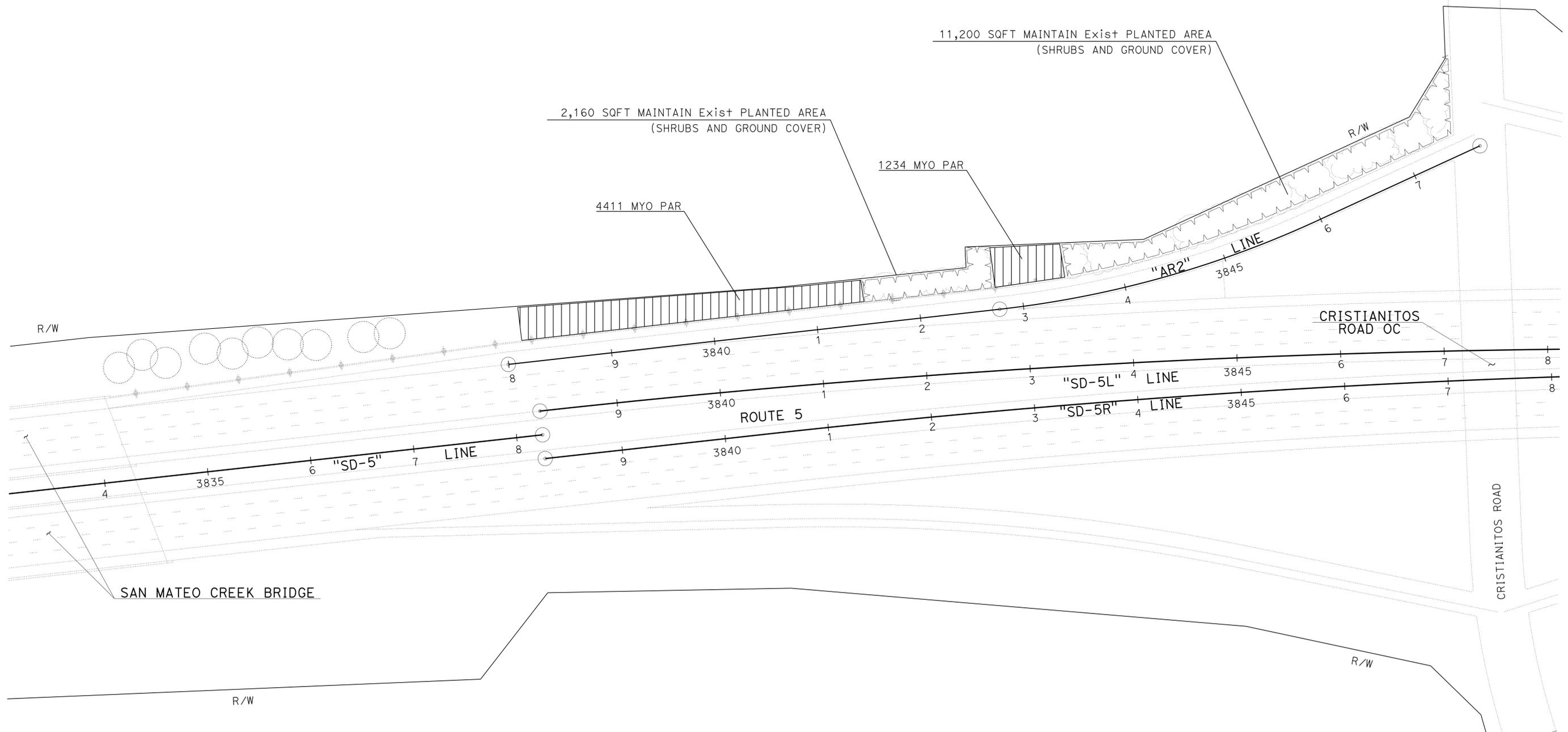
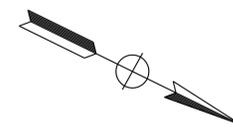
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11	SD	5,8,15,54,56,etc.	Var	214	255

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SAN DIEGO



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

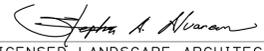
APPROVED FOR PLANTING WORK ONLY

SCALE: 1" = 50'

PLANTING PLAN
(LOCATION 8)
PP-3

LAST REVISION DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 1:3:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	215	255

 LICENSED LANDSCAPE ARCHITECT		
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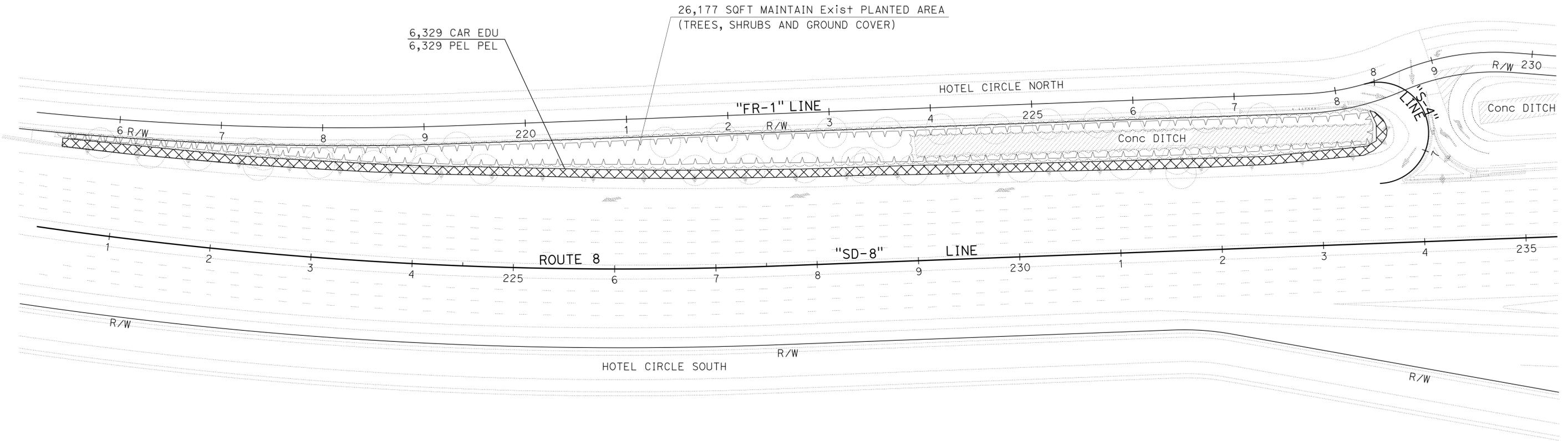


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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
	
SENIOR LANDSCAPE ARCHITECT	STEPHEN ALVAREZ
CALCULATED-DESIGNED BY	CHECKED BY
RUDY MEDINA	STEPHEN ALVAREZ
REVISED BY	DATE REVISED



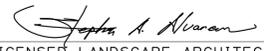
APPROVED FOR PLANTING WORK ONLY

SCALE: 1" = 50'

PLANTING PLAN
 (LOCATION 11)
PP-4

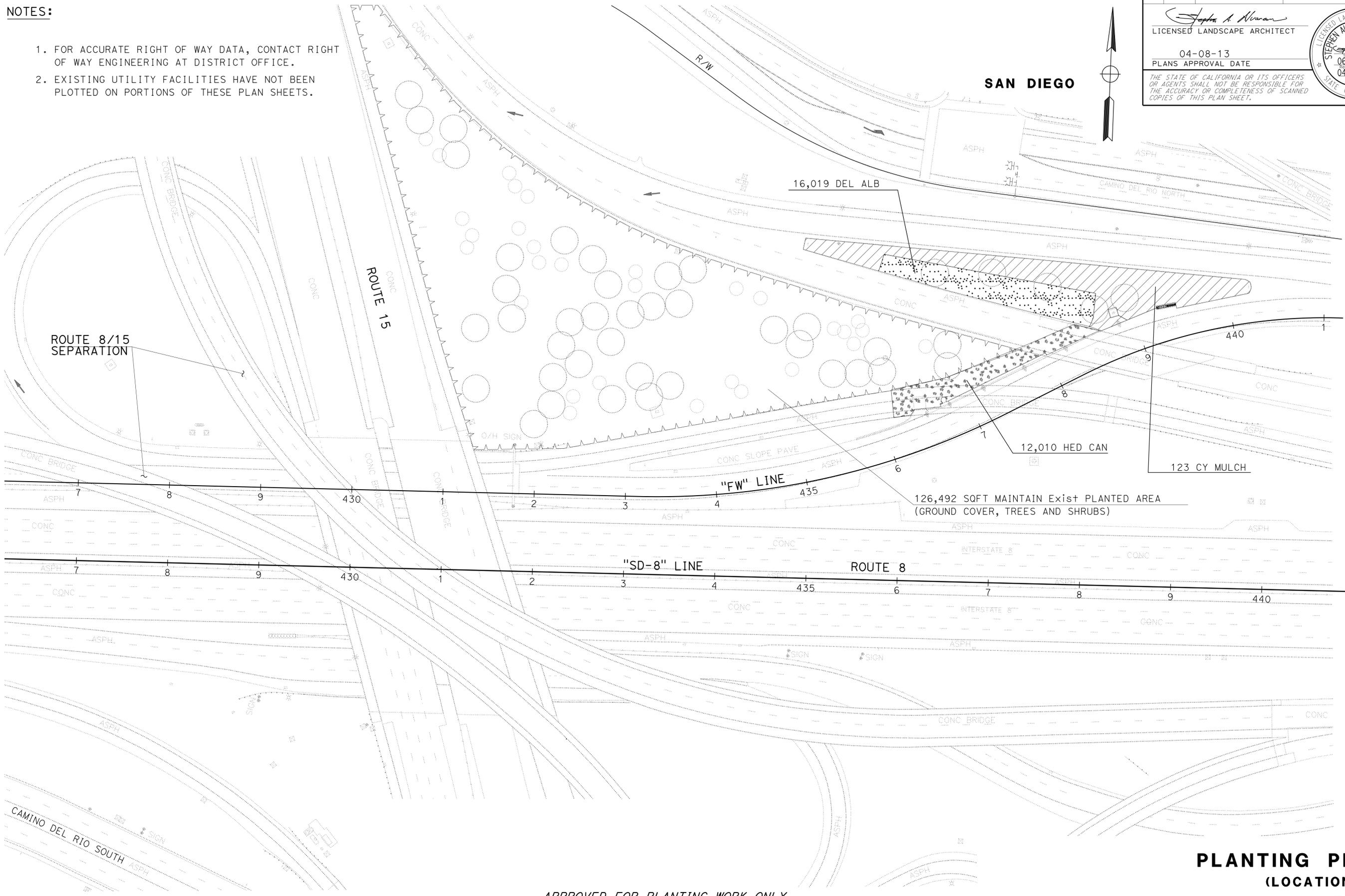
LAST REVISION DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 1:3:55
 04-25-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	217	255

 LICENSED LANDSCAPE ARCHITECT		
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Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: STEPHEN ALVAREZ
 CALCULATED/DESIGNED BY: STEPHEN ALVAREZ
 CHECKED BY: STEPHEN ALVAREZ
 RUDY MEDINA
 REVISED BY: STEPHEN ALVAREZ
 DATE REVISED:

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 (LOCATION 17)
PP-6

SCALE: 1" = 50'

LAST REVISION: DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 1:3:55

SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS / MINUS 5% ②					RISER											REMARKS						
						DISCHARGE			RADIUS (FT)	WIDTH x LENGTH (FT)	MATERIAL	NOZZLE SIZE (INCH)	INLET CONNECTION (NPT) (DN IN INCHES)(INCH)	POSITIVE-LOCKING ADJ ARC STOP	BACKSPASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	MATERIAL		SIZE (IPS) (INCH)		HEIGHT (INCH)	FLOW SHUTOFF DEVICE	SWING JOINT (TYPE)	RISER SUPPORT	SPRINKLER PROTECTOR (TYPE)	
						GALLONS PER SECOND (GPS)	GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)											PLASTIC	GALVANIZED								
⑤	A-5	GEAR DRIVEN	P	50	-	-	3.5	-	40	-	PL	-	3/4	-	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③⑦
⑥	A-6	GEAR DRIVEN	P	50	-	-	3.5	-	40	-	PL	-	3/4	-	-	X	-	-	-	-	-	-	-	-	1	-	1	③⑦ 12" POP-UP
⑦	A-7	GEAR DRIVEN	P	50	-	-	7.5	-	48	-	PL	-	3/4	-	-	X	-	-	I	X	-	3/4	6	-	1	-	-	③⑦
△	B-1	SHRUB SPRAY	H	30	-	-	1.8	-	15	-	PL	-	1/2	-	-	X	-	X	I	X	-	1/2	12	-	1	-	-	⑧⑨
◇	B-5	STREAM SPRAY	H	30	-	-	1.7	-	27	-	PL	-	1/2	-	-	-	-	X	IV	X	-	1/2	18	-	1	-	-	⑧⑨

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	218	255

LICENSED LANDSCAPE ARCHITECT
 04-08-13
 PLANS APPROVAL DATE

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

NOTES:

1. ALL LATERAL PIPE NOT LABELED SHALL BE 1 INCH, OR AS SHOWN ON PIPE SIZING CHARTS.
2. ALL SPRINKLER HEADS, VALVES AND PLASTIC PIPE (SUPPLY LINE) MAIN SHOWN NEAR MVP LOCATIONS ARE TO BE INSTALLED OUTSIDE OF THE PAVED MVP AREA. VALVES TO BE INSTALLED AT EXITING END OF THE MVP.

APPLICABLE WHEN CIRCLED BELOW:

X IN BOX DENOTES REQUIREMENT

ABBREVIATIONS

LEGEND

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

- Adj — ADJUSTABLE
- B/B — BRASS/BRONZE
- B/B/PL — BRASS/BRONZE/PLASTIC
- B/PL — BRASS/PLASTIC
- CST — CENTER STRIP
- DN — DIAMETER NOMINAL
- EST — END STRIP
- ft — FEET
- F — FULL CIRCLE
- F/P — FULL/PART CIRCLE
- GPH — GALLONS PER HOUR
- GPM — GALLONS PER MINUTE
- GPS — GALLONS PER SECOND
- H — HALF CIRCLE
- IPS — IRON PIPE SIZE
- NPT — NATIONAL PIPE THREAD
- P — PART CIRCLE
- PL — PLASTIC
- psi — POUNDS PER SQUARE INCH
- Q — QUARTER CIRCLE
- SST — SIDE STRIP
- T — THIRD CIRCLE
- TQ — THREE QUARTER CIRCLE
- TT — TWO THIRDS CIRCLE

⊞ FERTILIZER COUPLING

MJ MECHANICAL JOINT

FLG FLANGE

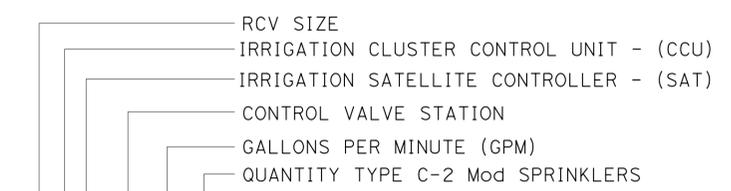
NL-----NL----- Exist NOZZLE LINE

⊞ X(X)-X Exist VALVE TO REMAIN.

⊞ X(X)-X REMOVE Exist SPRINKLERS AND LATERAL WHERE SHOWN. VALVE TO REMAIN.

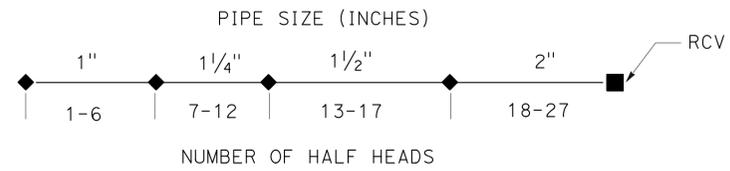
⊞ X(X)-X REMOVE Exist SPRINKLERS, VALVE AND LATERAL WHERE SHOWN.

⊞ MAINTAIN EXISTING IRRIGATION FACILITIES

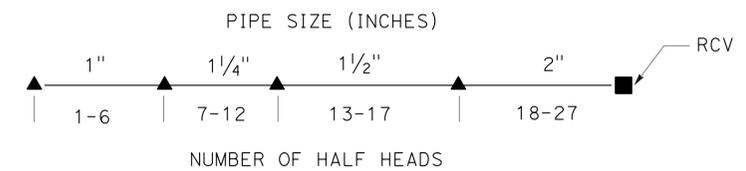


X-X(X)-XX-XX-XX

VALVE CODE



PIPE SIZING CHART
B-5 STREAM SPRAY



PIPE SIZING CHART
B-1 SHRUB SPRAY

1 HALF HEAD = TWO QUARTER HEADS

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56, etc.	Var	219	255

04-02-13
 REGISTERED CIVIL ENGINEER DATE
 04-08-13
 PLANS APPROVAL DATE

OSCAR AGUILAR
 No. C62571
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

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

LEGEND:

////// CS //// COMPOST SOCK

EROSION CONTROL						
LEGEND	SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	REMARKS
			DESCRIPTION	TYPE		
	STEP 1	COMPOST	COMPOST	MEDIUM	135 CY/ACRE	
	STEP 2	INCORPORATE MATERIALS	COMPOST	---	---	1"
	STEP 3	COMPOST SOCK	COMPOST SOCK	12" Dia		
	STEP 4	BONDED FIBER MATRIX	FIBER TACKIFIER	WOOD BFM	4,000 LB/ACRE	APPLICATION RATE IS FOR FIBER AND TACKIFIER COMBINED
	STEP 5	BONDED FIBER MATRIX	FIBER TACKIFIER	WOOD BFM	500 LB/ACRE	
			SEED		25.1 LB/ACRE	

SEED			
SEED MIX	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT) (N)
	CAMISSONIA CHEIRANTHEFOLIA ¹ (BEACH EVENING PRIMROSE)	70	1.0
	ENCELIA CALIFORNICA (BUSH SUNFLOWER)	50	1.0
	EREMOCARPUS SETIGERUS (DOVEWEED)	35	1.0
	ERIOPHYLLUM CONFERTIFLORUM ¹ (GOLDEN YARROW)	50	1.0
	ESCHSCHOLZIA CALIFORNICA (CALIFORNIA POPPY)	70	5.0
	DICHELOSTEMMA PULCHELLUM ¹ (BLUE-EYED GRASS)	70	1.0
	GNAPHALIUM CALIFORNICUM (CUDWEED)	35	0.1
	LASTHENIA CALIFORNICA (GOLDFIELDS)	45	1.0
	LOTUS SCOPARIUS (DEERWEED)	70	5.0
	LUPINUS BICOLOR (MINIATURE LUPINE)	70	4.0
	NASSELLA PULCHRA (PURPLE NEEDLGRASS)	70	3.0
	VIGUIERA LACINIATA (SAN DIEGO SUNFLOWER)	45	2.0
	TOTAL		25.1

¹ SEED PRODUCED IN CALIFORNIA ONLY
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

EROSION CONTROL SUMMARY OF QUANTITIES				
SHEET	EROSION CONTROL (BONDED FIBER MATRIX)	COMPOST	INCORPORATE MATERIALS	COMPOST SOCK
	SQFT	SQFT	SQFT	LF
EC-1	8,050	8,050	8,050	1,010
TOTAL	8,050	8,050	8,050	1,010

EROSION CONTROL LEGEND AND QUANTITIES ECL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

 DESIGN
 OSCAR M AGUILAR
 QUAN TON
 ED HAJJ
 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.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56, etc.	Var	220	255
			04-02-13		
			REGISTERED CIVIL ENGINEER	DATE	
			04-08-13	PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CDTRANS
 DESIGN
 FUNCTIONAL SUPERVISOR: ED HAJJ
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 OSCAR M AGUILAR
 THIN BUT
 REVISED BY: [blank]
 DATE REVISED: [blank]

EROSION CONTROL PLAN
(LOCATION 24)
EC-1

APPROVED FOR EROSION CONTROL WORK ONLY

SCALE: 1"=50'

LAST REVISION: DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	221	255

<i>Fauz Ramos</i> 03-28-13	
REGISTERED ELECTRICAL ENGINEER	DATE
04-08-13	
PLANS APPROVAL DATE	

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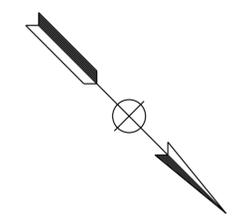


CONDUIT NOTES:

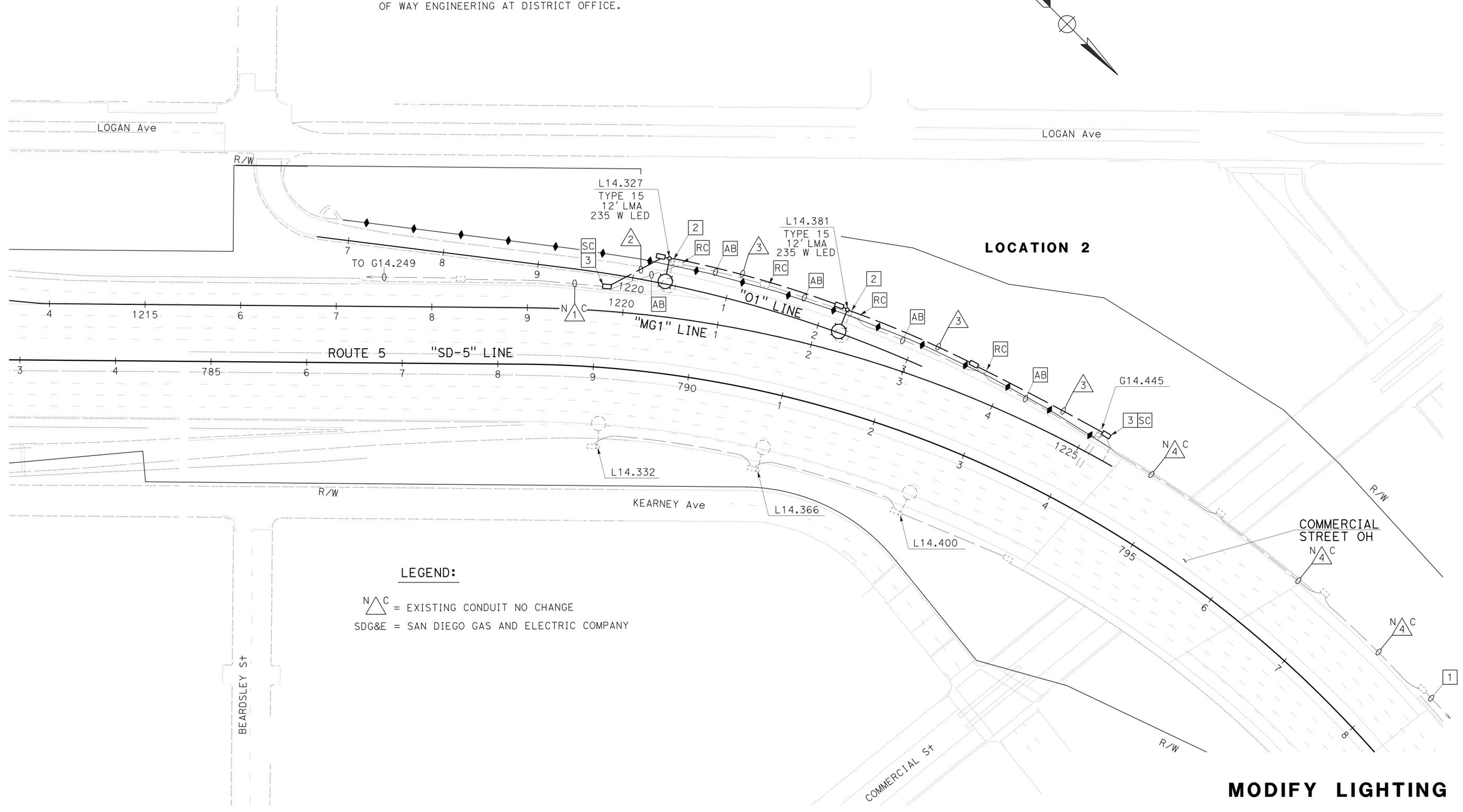
- N1C - Exist 1 1/2" C, 2#8 (SIGN).
- 2 - 2" C, 2#8 (SIGN).
- 3 - 2" C, 2#10 (LTG), 2#8 (SIGN).
- N4C - Exist 1 1/2" C, 2#10 (1+g), 2#8 (SIGN).

NOTES:

- 1 - TO SERVICE POINT B4.49 LOCATED IN THE SOUTHWEST CORNER OF IMPERIAL Ave.
- 2 - RC TYPE 10 (SEE Std PLANS, 1975), 15' lma, 200 hps ELECTROLIER.
- 3 - RC EXISTING PULL BOX. INSTALL No. 5 PULL BOX.
- 4 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 5 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 6 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T. PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (Grids 1-4)
 REVISOR: (Grids 1-4)
 DATE: (Grids 1-4)
 REVISION: (Grids 1-4)
 DATE: (Grids 1-4)



LEGEND:

- N1C = EXISTING CONDUIT NO CHANGE
- SDG&E = SAN DIEGO GAS AND ELECTRIC COMPANY

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY LIGHTING

SCALE: 1" = 50'

E-1

LAST REVISION DATE PLOTTED => 13-MAY-2013 13:55
 05-09-13 TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,	Var	222	255

Fariba Ramos 03-28-13
 REGISTERED ELECTRICAL ENGINEER DATE

04-08-13
 PLANS APPROVAL DATE

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

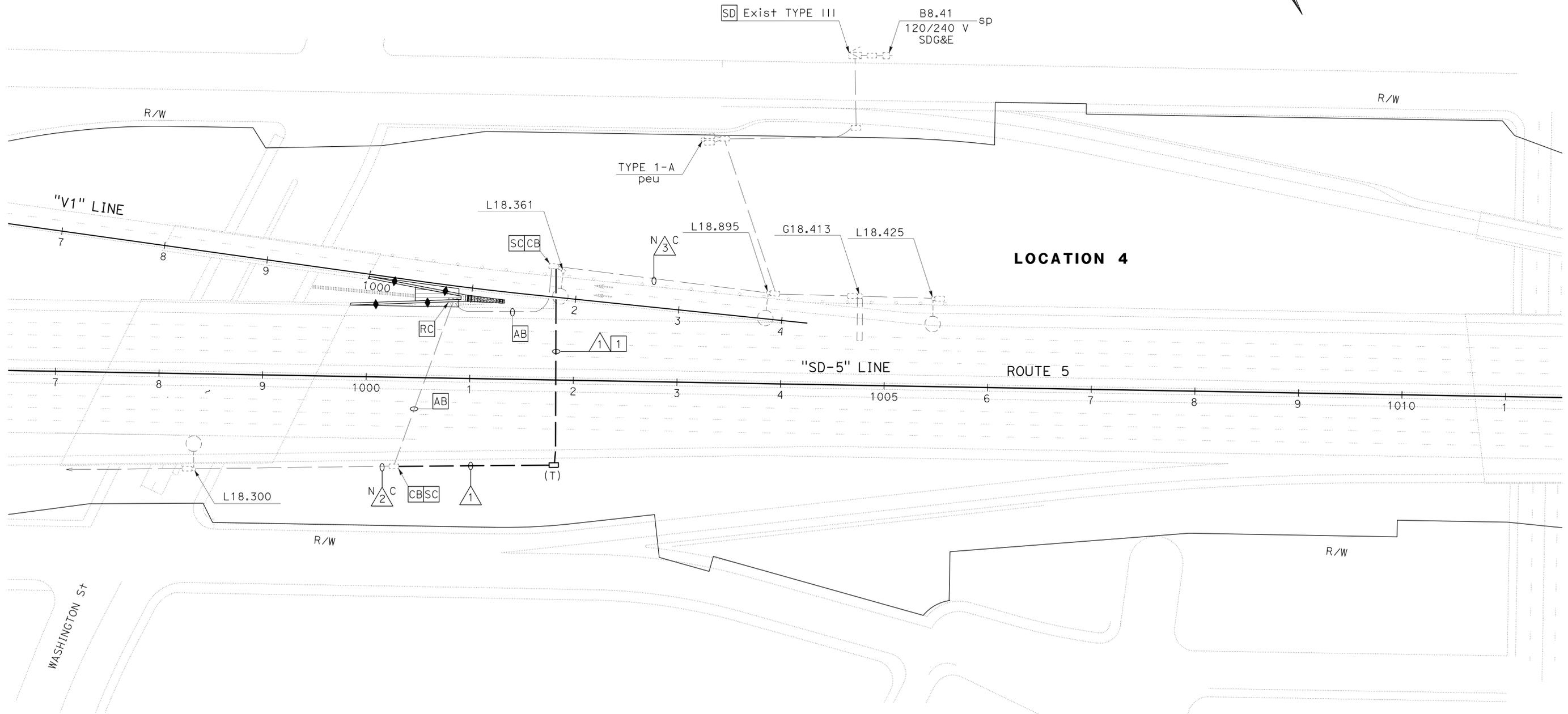
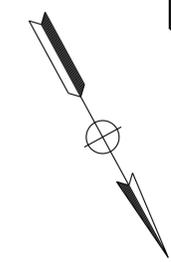
REGISTERED PROFESSIONAL ENGINEER
FARIBA RAMOS
 No. E15619
 Exp. 12-31-13
 ELECTRICAL
 STATE OF CALIFORNIA

CONDUIT NOTES:

- ① - 2" C, 2#8 (LTG).
- N②C - 1 1/2" C, 2#8 (1+g).
- N③C - 1 1/2" C, 2#8 (1+g).

NOTES:

- ① - INSTALL CONDUIT BY DIRECTIONAL BORING METHOD.
- 2 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 3 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 4 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T. PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (None shown)
 REVISOR: (None shown)
 DATE: (None shown)

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1" = 50'

E-2

LAST REVISION: DATE PLOTTED => 13-MAY-2013 TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56, etc.	Var	223	255

<i>Fariba Ramos</i> 03-28-13 REGISTERED ELECTRICAL ENGINEER DATE	
04-08-13 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER FARIBA RAMOS No. E15619 Exp. 12-31-13 ELECTRICAL 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.

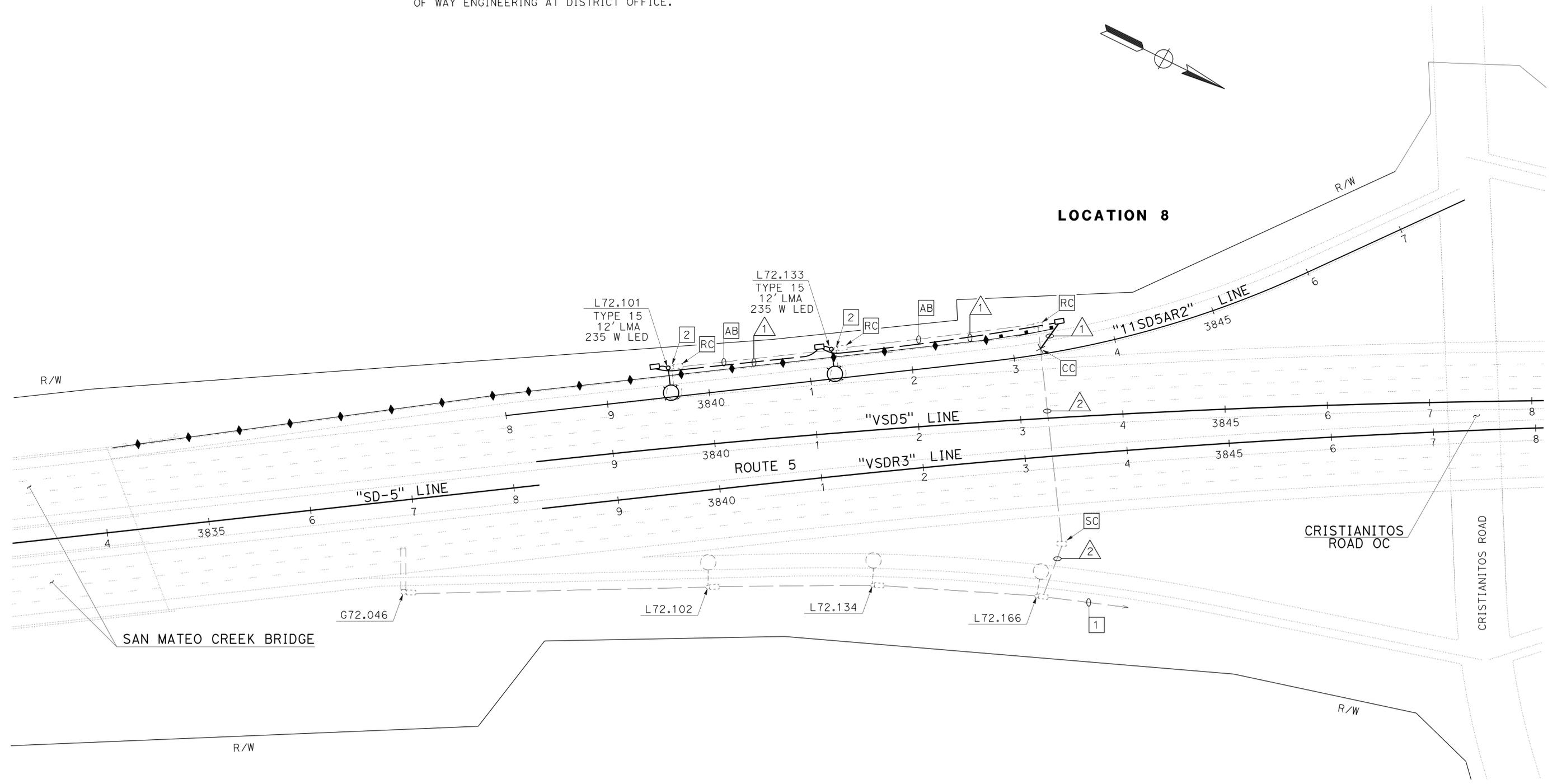
CONDUIT NOTES:

- ① - 1 1/2" C, 2#10 (LTG).
- ② - Exist 1 1/2" C, 2#10 (ltg).

NOTES:

- ① - TO SERVICE POINT PP#124354 LOCATED AT CRISTIONITOS Rd AND EL CAMINO REAL.
- ② - RC TYPE 15 ELECTROLIER.
- 3 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 4 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 5 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: REVISOR: DATE
 REVISOR: DATE



LOCATION 8

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY LIGHTING
 E-3
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 13-MAY-2013
 05-09-13 TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	224	255

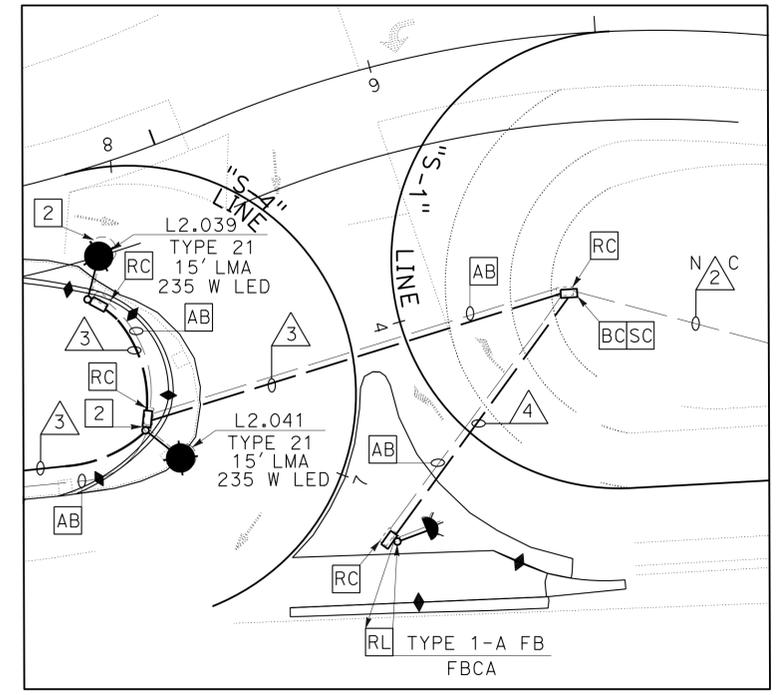
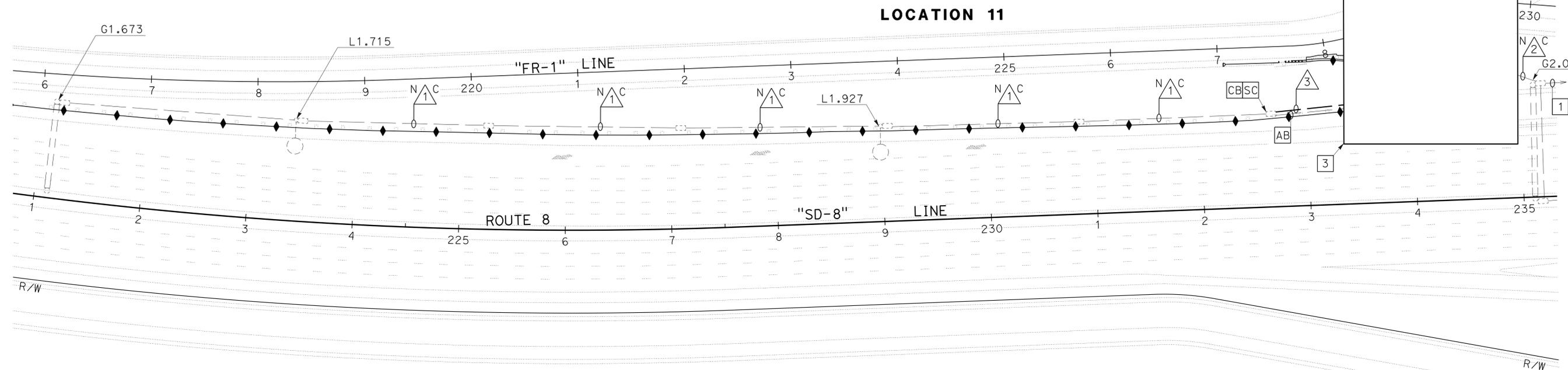
Fauk Ramos 03-28-13
 REGISTERED ELECTRICAL ENGINEER DATE

04-08-13
 PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER
FARIBA RAMOS
 No. E15619
 Exp. 12-31-13
 ELECTRICAL
 STATE OF CALIFORNIA

- CONDUIT NOTES:**
- N1C - Exist 2"C, 2#8 (ltg).
 - N2C - Exist 2"C, 2#8 (ltg), 2#10 (fb).
 - 3 - 2"C, 2#8 (LTG).
 - 4 - 2"C, 2#10 (FB).



DETAIL "A"
NO SCALE

NOTES:

- 1 - TO SERVICE POINT A1.98 LOCATED AT Rte 8 EB ON RAMP AND HOTEL CIRCLE SOUTH.
- 2 - RC TYPE 21 ELECTROLIER.
- 3 - SEE DETAIL "A" ON THIS SHEET.
- 4 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 5 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 6 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

**MODIFY LIGHTING
MODIFY FLASHING BEACON**

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISED BY: HENRY TSUI
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	225	255

<i>Fauk Ramos</i> 03-28-13	
REGISTERED ELECTRICAL ENGINEER	DATE
04-08-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER	FARIBA RAMOS
No. E15619	Exp. 12-31-13
ELECTRICAL	

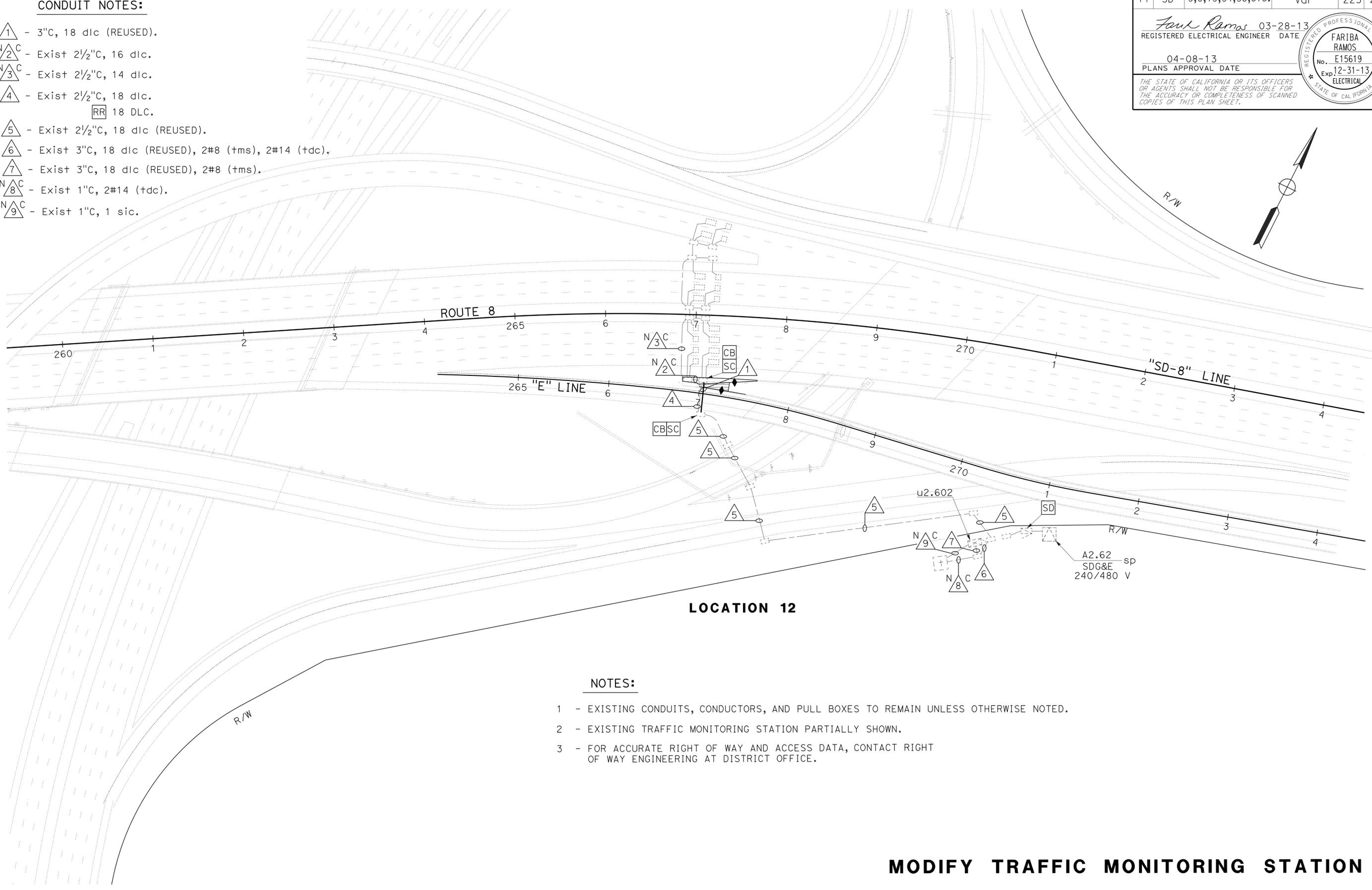
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONDUIT NOTES:

- 1 - 3"C, 18 dlc (REUSED).
- N 2 C - Exist 2 1/2"C, 16 dlc.
- N 3 C - Exist 2 1/2"C, 14 dlc.
- 4 - Exist 2 1/2"C, 18 dlc.
- RR 18 DLC.
- 5 - Exist 2 1/2"C, 18 dlc (REUSED).
- 6 - Exist 3"C, 18 dlc (REUSED), 2#8 (tms), 2#14 (tdc).
- 7 - Exist 3"C, 18 dlc (REUSED), 2#8 (tms).
- N 8 C - Exist 1"C, 2#14 (tdc).
- N 9 C - Exist 1"C, 1 sic.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISOR: HENRY TSUI
 DATE REVISOR: FARIBA RAMOS



NOTES:

- 1 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 2 - EXISTING TRAFFIC MONITORING STATION PARTIALLY SHOWN.
- 3 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

MODIFY TRAFFIC MONITORING STATION

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1" = 50'

E-5

LAST REVISION DATE PLOTTED => 13-MAY-2013 04-26-13 TIME PLOTTED => 13:55

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (Grid of X's)

CONDUIT NOTES:

- 1 - 2"C, 2#8 (LTG), 2#10 (SIGN).
- 2 - Exist 1 1/2"C, 10#14 (sig), 1#10 (sig COMMON).
- 3 - 2"C, 2#10 (SIGN).
- 4 - 1 1/2"C, 2#10 (LTG-CITY).
- 5 - 1 1/2"C, 9#14 (SIG), 1#10 (SIG COMMON).

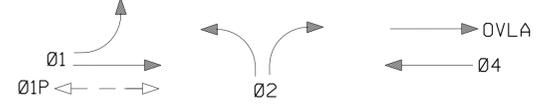
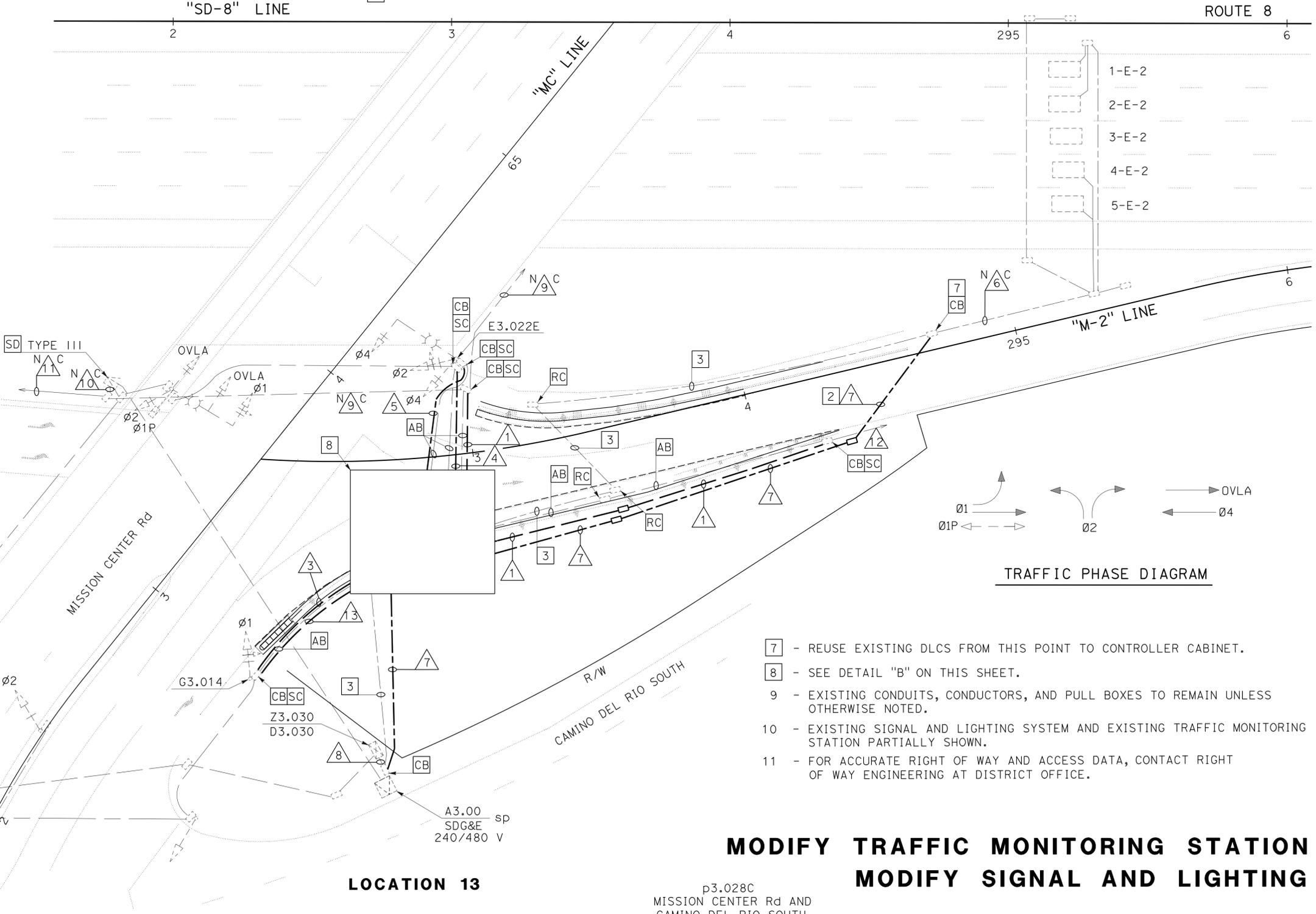
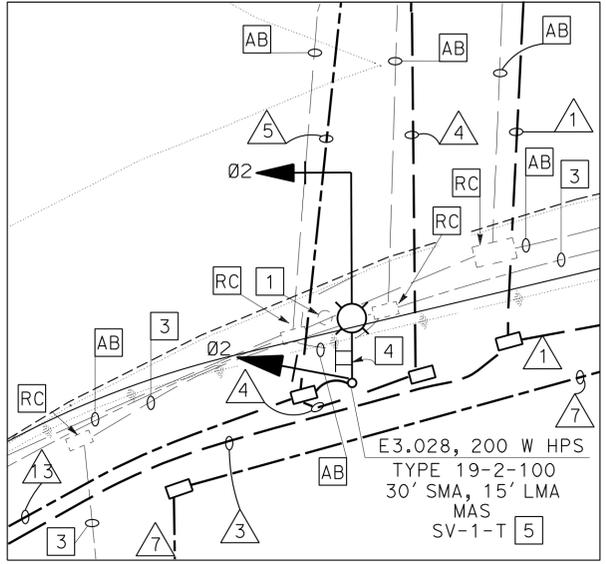
- N6C - Exist 2 1/2"C, 17 dlc.
- 7 - 2"C, 17 DLC (REUSED).
- 8 - Exist 2 1/2"C, 17 dlc, RR 17 dlc.
- N9C - Exist 1 1/2"C, 2#8 (ltg), 2#10 (SIGN), 2#10 (SPRINKLER CONTROL).
- N10C - Exist 1 1/2"C, 2#8 (ltg), 2#10 (SIGN), 2#10 (SPRINKLER CONTROL), 4#14 (peu).
- N11C - Exist 1 1/2"C, 2#10 (ltg), 2#10 (SIGN), 4#14 (peu).

NOTES:

- 1 - RC TYPE 17, sv-1-T, 12' lma, mas.
- 2 - CONDUIT SHALL BE PLACED BY DIRECTIONAL BORING METHOD.
- 3 - REMOVE AND REUSE EXISTING DLCs. AB EXISTING CONDUIT. SEE 7.
- 4 - SNS.
- 5 - SV-1-T, 3 SECTION SIGNAL HEAD TO BE MOUNTED 15' ABOVE BASE PLATE FOR PHASE 2.
- 6 - TO EXISTING TRAFFIC MONITORING STATION LOOP DETECTORS.

DIST	COUNTY	ROUTE	POST TOTAL PROJECT	MILES	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var		226	255

Fariba Ramos 03-28-13
 REGISTERED ELECTRICAL ENGINEER DATE
 04-08-13
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- 12 - Exist 1 1/2"C, 2#8 (ltg), 2#10 (SIGN).
- 13 - 1 1/2"C, 9#14 (SIG), 1#10 (SIG COMMON).

- 7 - REUSE EXISTING DLCs FROM THIS POINT TO CONTROLLER CABINET.
- 8 - SEE DETAIL "B" ON THIS SHEET.
- 9 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 10 - EXISTING SIGNAL AND LIGHTING SYSTEM AND EXISTING TRAFFIC MONITORING STATION PARTIALLY SHOWN.
- 11 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

**MODIFY TRAFFIC MONITORING STATION
 MODIFY SIGNAL AND LIGHTING**

p3.028C
 MISSION CENTER Rd AND
 CAMINO DEL RIO SOUTH

SCALE: 1" = 20'

APPROVED FOR ELECTRICAL WORK ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	227	255

<i>Fauz Ramos</i> 03-28-13 REGISTERED ELECTRICAL ENGINEER DATE	
04-08-13 PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

REGISTERED PROFESSIONAL ENGINEER
FARIBA RAMOS
 No. E15619
 Exp. 12-31-13
 ELECTRICAL
STATE OF CALIFORNIA

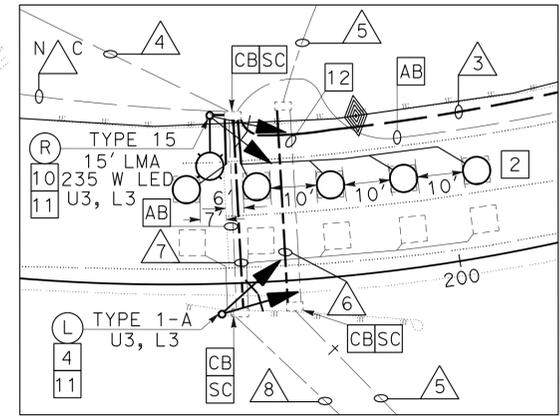
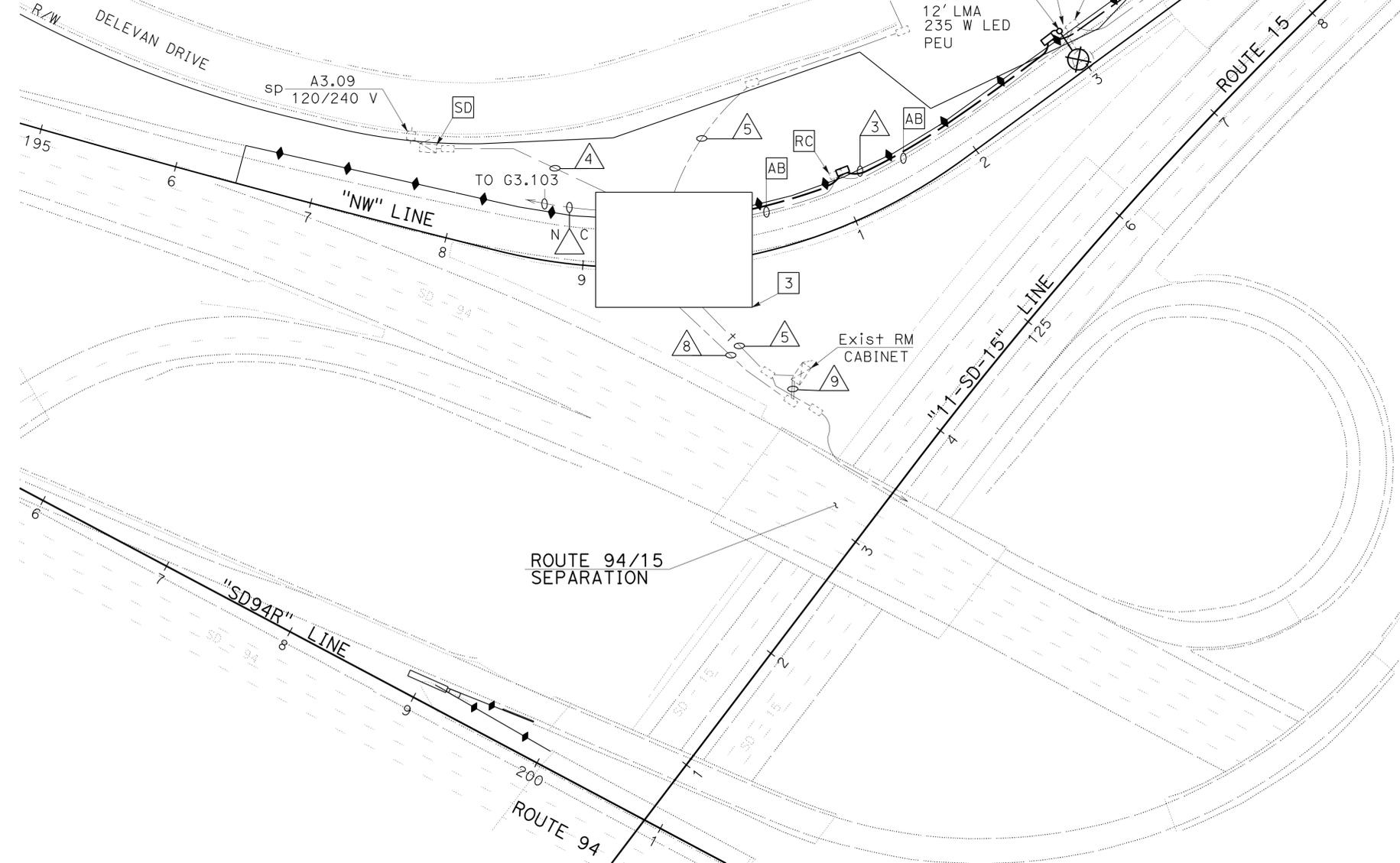
CONDUIT NOTES:

- 1 - Exist 1 1/2" C, 2#8 (LTG AND SIGN).
- 2 - 2" C, 2#8 (LTG AND SIGN), 2#10 (EMS).
- 3 - 2" C, 2#8 (LTG AND SIGN), 2#10 (EMS), 3#14 (PEU).
- 4 - Exist 1 1/2" C, 2#10 (LTG AND SIGN), 2#8 (rm), 3#14 (peu).
- 5 - Exist 1" C, 1 SIC (REUSED).
- 6 - 2" C, 1 SIC (REUSED).
- 7 - 2" C, 5#14 (SIG), 3#14 (SPARES), 2#10 (EMS), 2#8 (RM), 2 DLC.
- 8 - Exist 2" C, 9#14 (sig), 3#14 (SPARES), 2#10 (ems), 2#8 (rm), 4 dlc.
 RC 2 dlc.
 ADD 2 DLC.
- 9 - 2-Exist 2" C, 12#14 (sig), 2#10 (ems), 2#8 (rm), 9 dlc, 1 SIC (REUSED).
 RC 2 dlc.
 ADD 2 DLC.

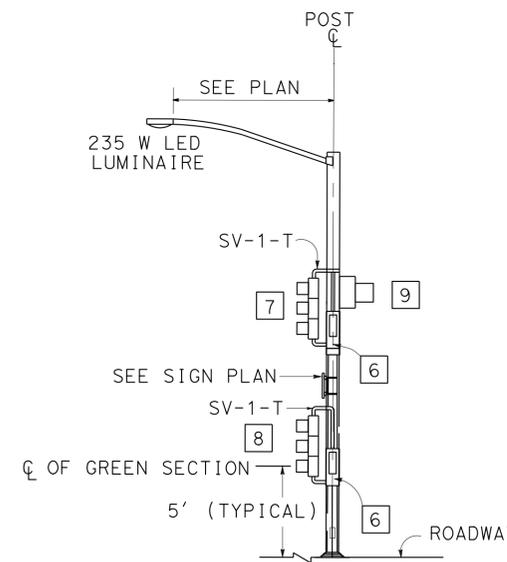
NOTES:

- 1 - RC TYPE 30 ELECTROLIER.
- 2 - AB EXISTING LOOPS. PLACE DETECTOR LOOPS AS SHOWN.
- 3 - SEE DETAIL "C" ON THIS SHEET.
- 4 - SEE DETAIL "L" ON THIS SHEET.
- 5 - TYPE 1-A (10') SIGNAL AND LIGHTING Std ES-7B.
- 6 - PLACE TERMINAL COMPARTMENT ON SIDE OF POLE AWAY FROM METERED TRAFFIC.
- 7 - THREE SECTION SIGNAL HEAD, 12" RED, YELLOW & GREEN. BACKPLATE REQUIRED.
- 8 - THREE SECTION SIGNAL HEAD, AS SHOWN ON THE PLANS. BACKPLATE NOT REQUIRED. ALL LENSES SHALL BE 8".
- 9 - ONE SECTION RED SIGNAL HEAD WITH RED LENS WHEN SHOWN ON PLAN.
- 10 - TYPE 15 LIGHTING Std. SEE DETAIL "15" ON THIS SHEET.
- 11 - RC TYPE 1-A.

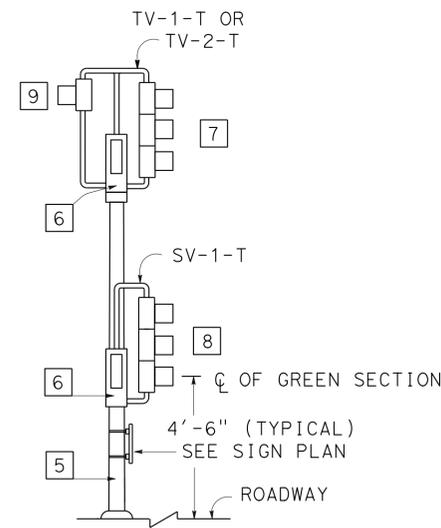
LOCATION 20



DETAIL "C"
NO SCALE



DETAIL "15"
NO SCALE



DETAIL "L"
NO SCALE

- 12 - AB CONDUIT. RR 1 sic.
- 13 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 14 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 15 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

MODIFY RAMP METERING SYSTEM

E-7

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (None shown)

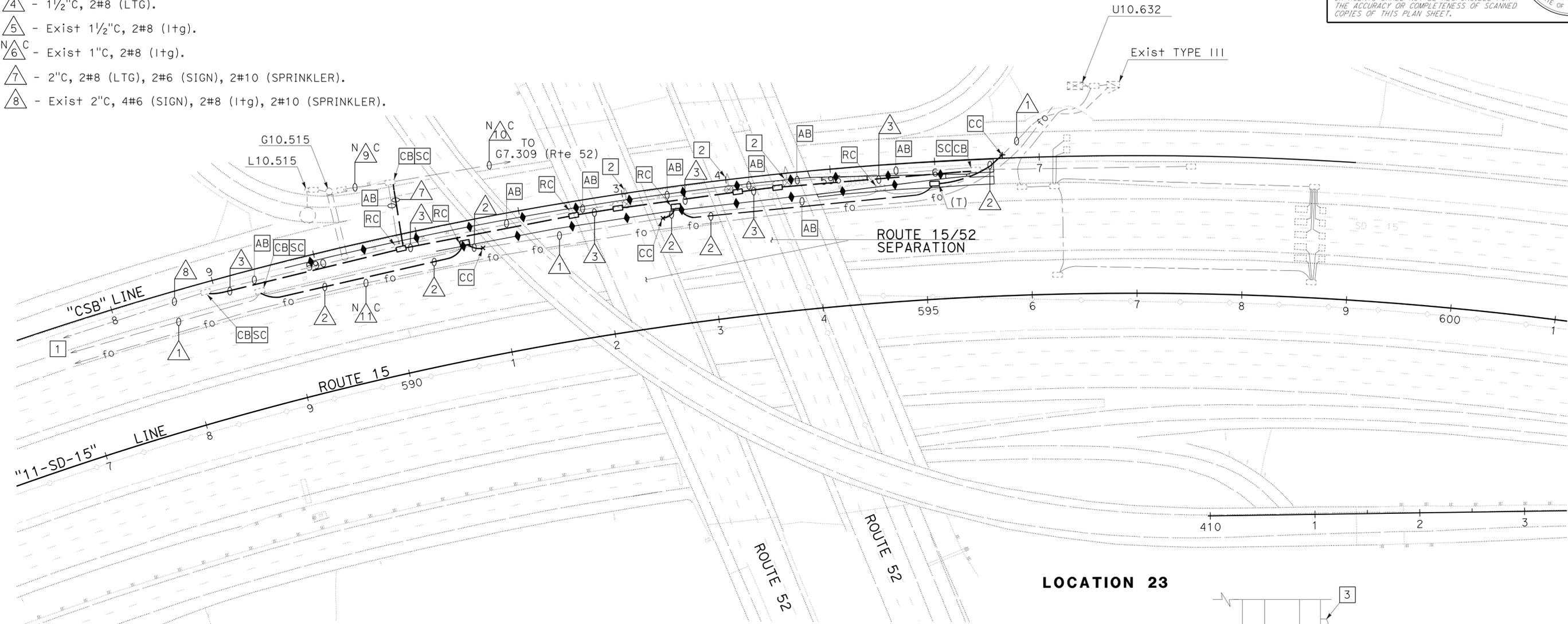
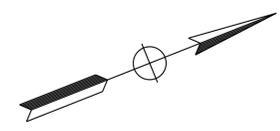
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	228	255

Fariba Ramos 03-28-13
 REGISTERED ELECTRICAL ENGINEER DATE
 04-08-13
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

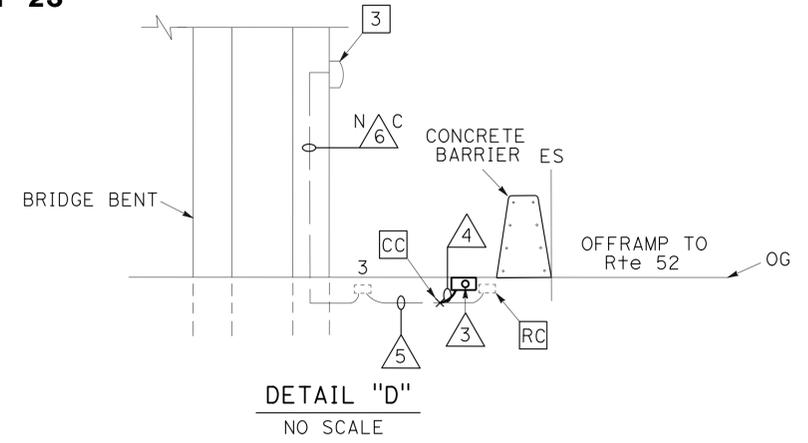
REGISTERED PROFESSIONAL ENGINEER
FARIBA RAMOS
 No. E15619
 Exp. 12-31-13
 ELECTRICAL
 STATE OF CALIFORNIA

CONDUIT NOTES:

- 1 - Exist 2"C, 2#4 (cctv & tms 480 V).
- 2 - 2"C, 2#4 (CCTV & TMS 480 V).
- 3 - 2"C, 4#6 (SIGN), 2#8 (ltg), 2#10 (SPRINKLER).
- 4 - 1 1/2"C, 2#8 (LTG).
- 5 - Exist 1 1/2"C, 2#8 (ltg).
- 6 - Exist 1"C, 2#8 (ltg).
- 7 - 2"C, 2#8 (LTG), 2#6 (SIGN), 2#10 (SPRINKLER).
- 8 - Exist 2"C, 4#6 (SIGN), 2#8 (ltg), 2#10 (SPRINKLER).
- 9 - Exist 1 1/2"C, 2#8 (ltg), 2#6 (SIGN).
- 10 - Exist 2"C, 2#8 (ltg), 2#6 (SIGN), 2#10 (SPRINKLER).
- 11 - Exist MDCS (8), 1 fo60, 1 fo144.



LOCATION 23



NOTES:

- 1 - TO SERVICE DISCONNECT LOCATED AT 9608 CLAIREMONT MESA Blvd.
- 2 - SEE DETAIL "D" ON THIS SHEET.
- 3 - EXISTING 55 W LPS WALL MOUNTED SOFFIT LUMINAIRE.
- 4 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 5 - EXISTING LIGHTING, SIGN ILLUMINATION SYSTEM AND TRAFFIC MONITORING STATION PARTIALLY SHOWN.
- 6 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (None listed)
 REVISOR: (None listed)
 DATE: (None listed)

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY LIGHTING

SCALE: 1" = 50'

E-8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	229	255

<i>Fauz Ramos</i> 03-28-13	
REGISTERED ELECTRICAL ENGINEER	DATE
04-08-13	
PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

REGISTERED PROFESSIONAL ENGINEER
FARIBA RAMOS
 No. E15619
 Exp. 12-31-13
 ELECTRICAL
STATE OF CALIFORNIA



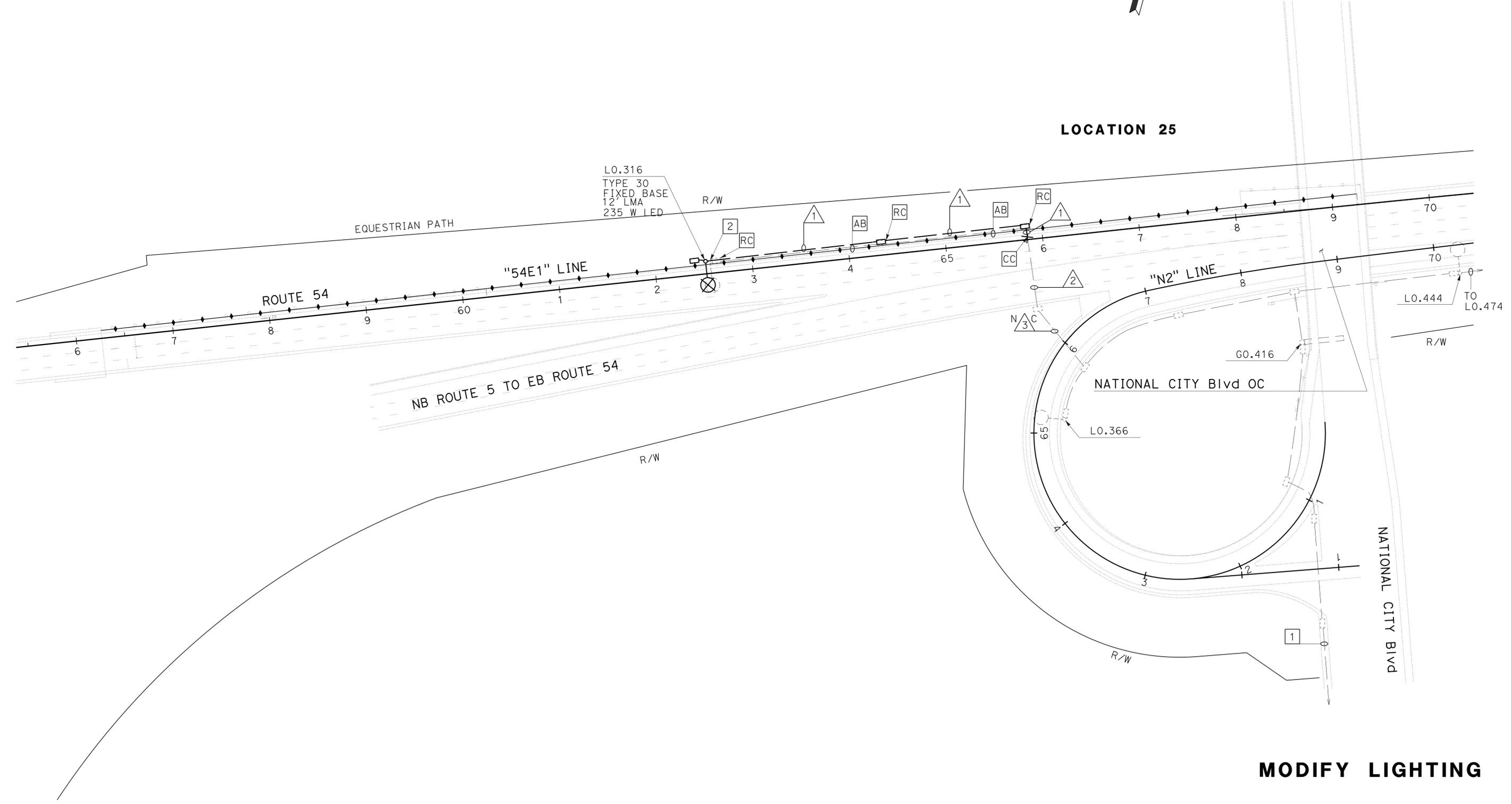
CONDUIT NOTES:

- 1 - 1 1/2" C, 2#10 (LTG).
- N 2 C - Exist 1 1/2" C, 2#10 (Itg).
- N 3 C - Exist 1 1/2" C, 2#10 (Itg).

NOTES:

- 1 - TO SERVICE POINT A0.40 LOCATED IN THE NORTHWEST CORNER OF NATIONAL CITY Blvd AND 35th STREET.
- 2 - RC TYPE 30 ELECTROLIER.
- 3 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 4 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 5 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (None shown)
 REVISOR: (None shown)
 DATE: (None shown)



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY LIGHTING

SCALE: 1" = 50'

E-9

LAST REVISION DATE PLOTTED => 13-MAY-2013
 05-09-13 TIME PLOTTED => 13:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	231	255

<i>Fauz Ramos</i> 03-28-13 REGISTERED ELECTRICAL ENGINEER DATE	
04-08-13 PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

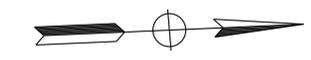
REGISTERED PROFESSIONAL ENGINEER
FARIBA RAMOS
 No. E15619
 Exp. 12-31-13
 ELECTRICAL
 STATE OF CALIFORNIA

CONDUIT NOTES:

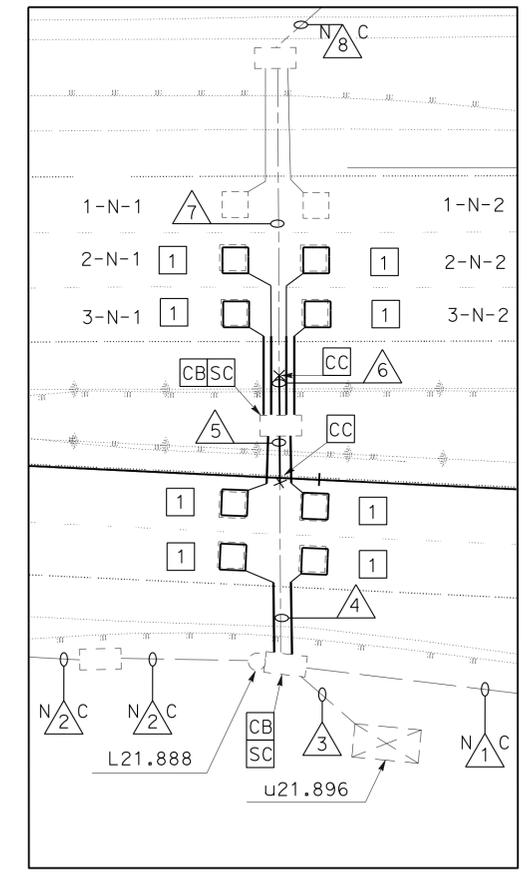
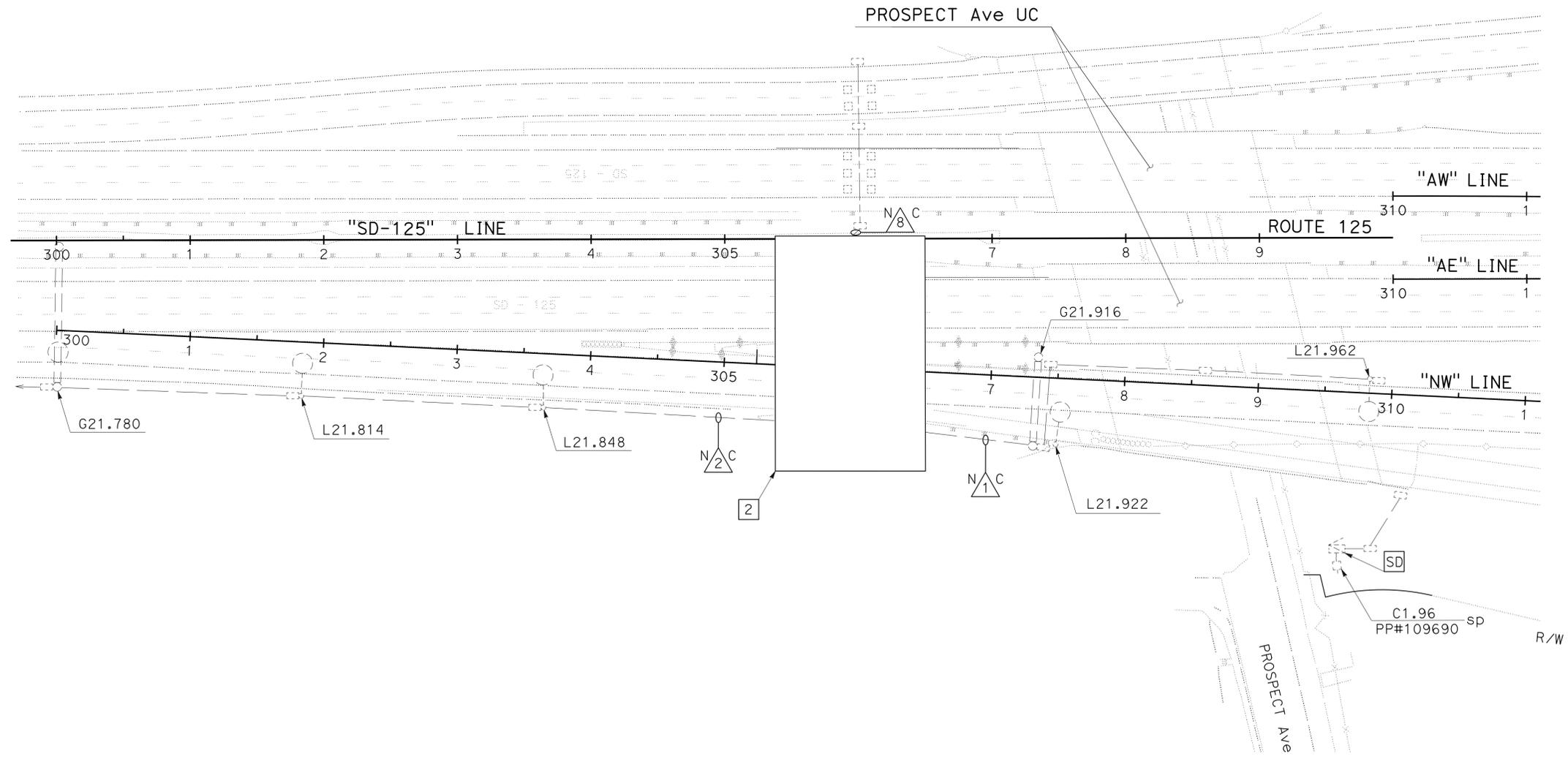
- N1C - Exist 2"C, 2#8 (Itg), 2#8 (SIGN), 2#6 (tms).
- N2C - Exist 2"C, 2#8 (Itg), 2#10 (ICC).
- 3 - Exist 2"C, 2#6 (tms), 20 dlc, RR 20 DLC.
- 4 - Exist 2"C, 18 dlc, RR 18 DLC.
- 5 - 2"C, 18 DLC (REUSED).
- 6 - 2"C, 12 DLC (REUSED).
- 7 - Exist 2"C, 12 dlc, RR 12 DLC.
- N8C - Exist 2"C, 10 dlc.

NOTES:

- 1 - AB EXISTING LOOPS. 5' X 5' TYPE A LOOPS. CENTER IN LANE.
- 2 - SEE DETAIL "D" ON THIS SHEET.
- 3 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 4 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM AND TRAFFIC MONITORING STATION SYSTEM PARTIALLY SHOWN.
- 5 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.



LOCATION 34



DETAIL "D"
NO SCALE

MODIFY TRAFFIC MONITORING STATION

E-11

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (None listed)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var	232	255
<i>Fauk Ramos</i> 03-28-13 REGISTERED ELECTRICAL ENGINEER DATE					
04-08-13 PLANS APPROVAL DATE			<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

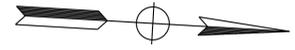
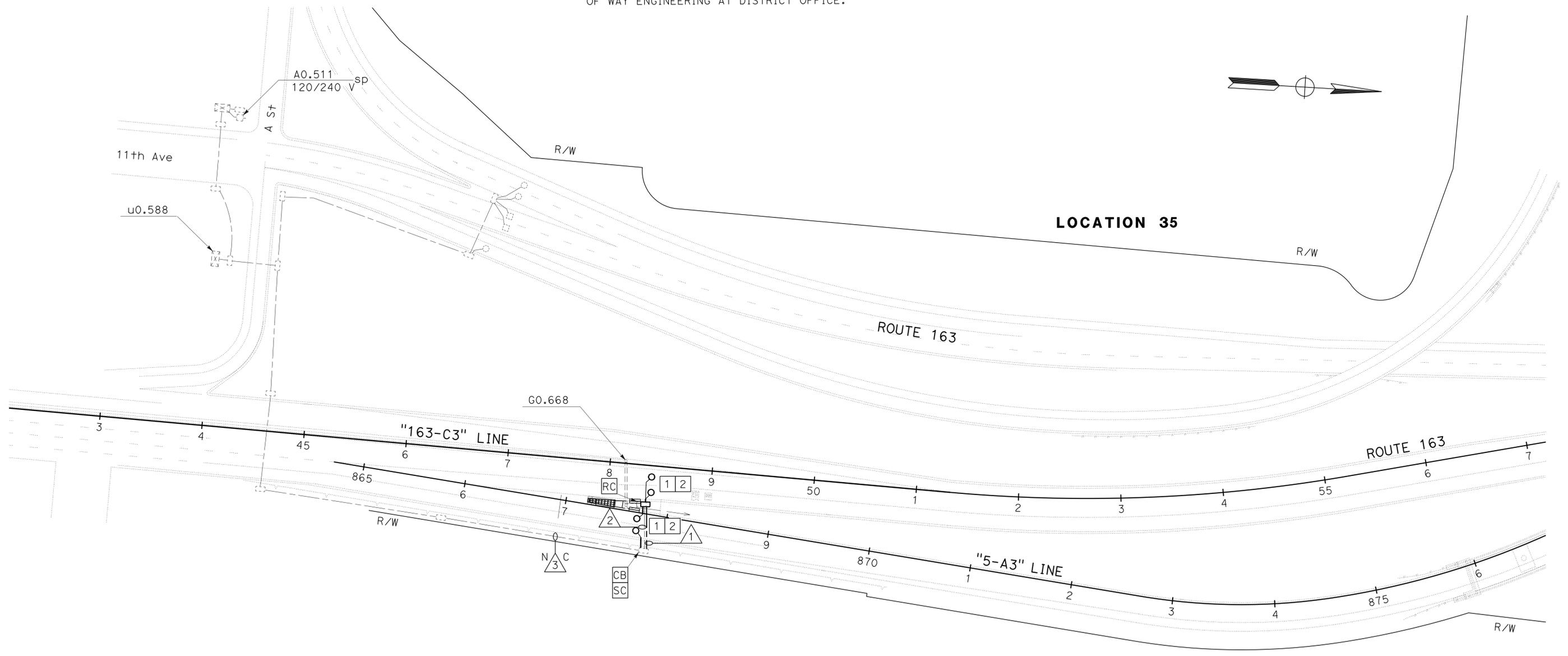
CONDUIT NOTES:

- 1 - 2"C, 3 DLC (REUSED).
- 2 - Exist 2"C, 3 dlc.
RR 3 dlc.
- N 3 C - Exist 2"C, 4 dlc.

NOTES:

- 1 - [AB] EXISTING LOOPS.
- 2 - TYPE E LOOPS. CENTER IN LANE.
- 3 - EXISTING CONDUITS, CONDUCTORS, AND PULL BOXES TO REMAIN UNLESS OTHERWISE NOTED.
- 4 - EXISTING LIGHTING AND SIGN ILLUMINATION SYSTEM PARTIALLY SHOWN.
- 5 - FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL
 FUNCTIONAL SUPERVISOR: BRIAN T PECUS
 CALCULATED/DESIGNED BY: HENRY TSUI
 CHECKED BY: FARIBA RAMOS
 REVISIONS: (Grid of X's)

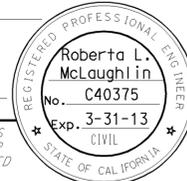


MODIFY TRAFFIC MONITORING STATION

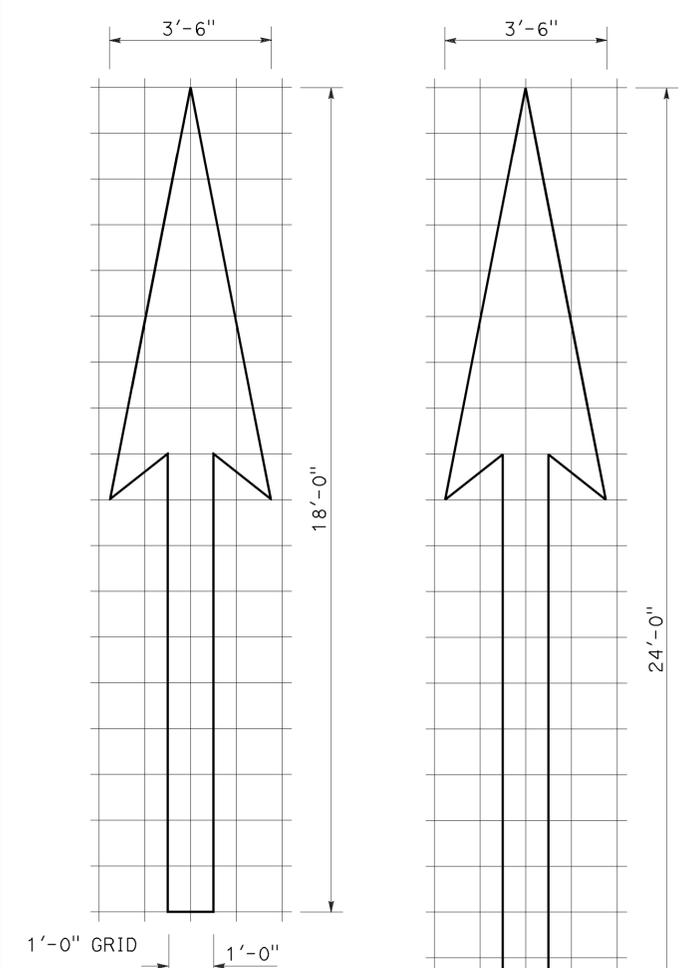
E-12

APPROVED FOR ELECTRICAL WORK ONLY

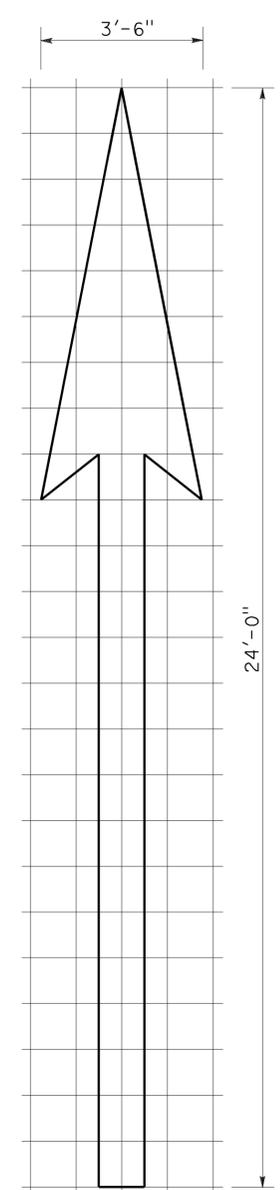
SCALE: 1" = 50'



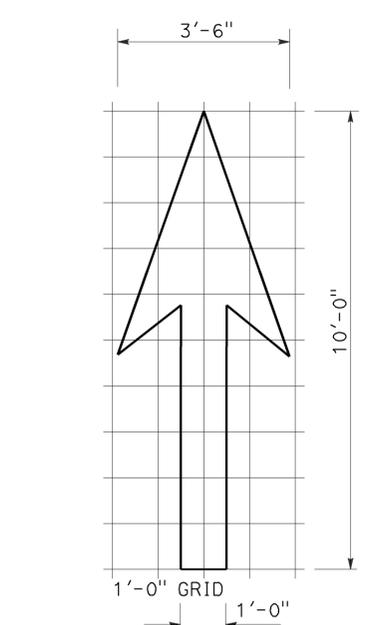
TO ACCOMPANY PLANS DATED 04-08-13



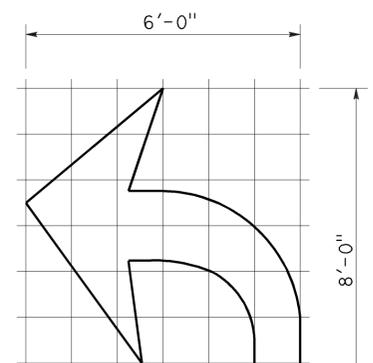
A=25 ft²
TYPE I 18'-0" ARROW



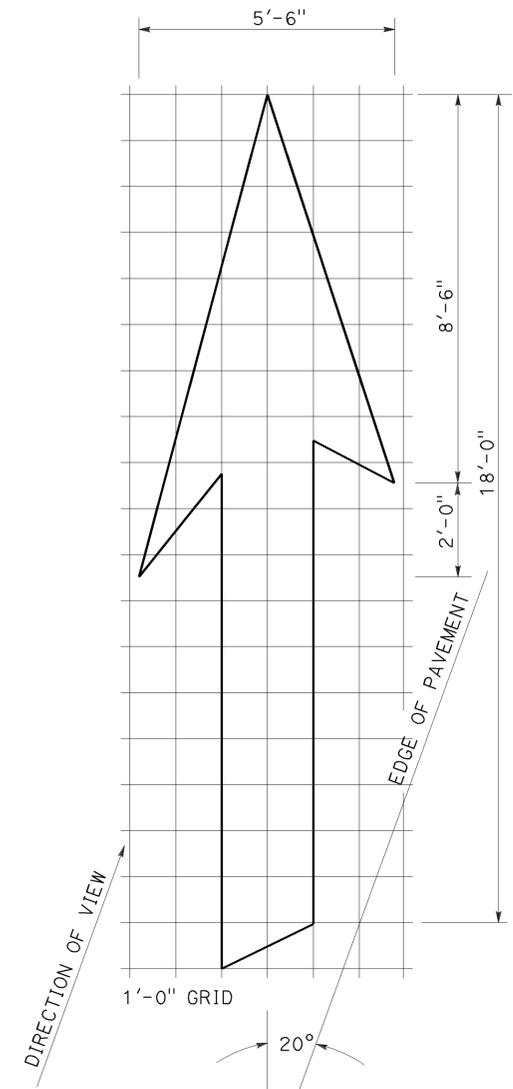
A=31 ft²
TYPE I 24'-0" ARROW



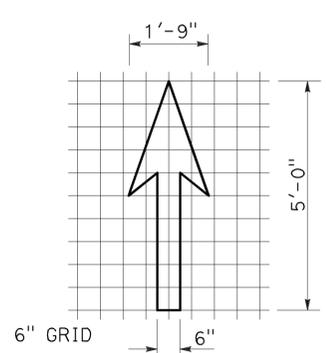
A=14 ft²
TYPE I 10'-0" ARROW



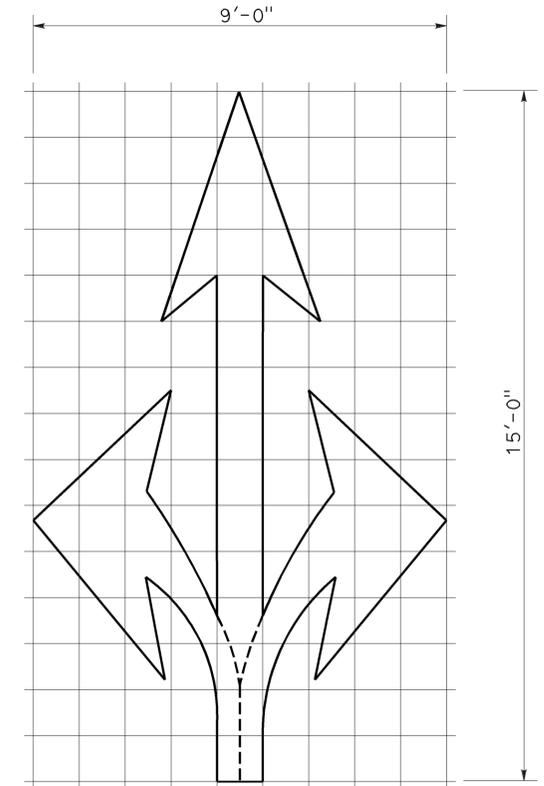
A=15 ft²
TYPE IV (L) ARROW
(For Type IV (R) arrow, use mirror image)



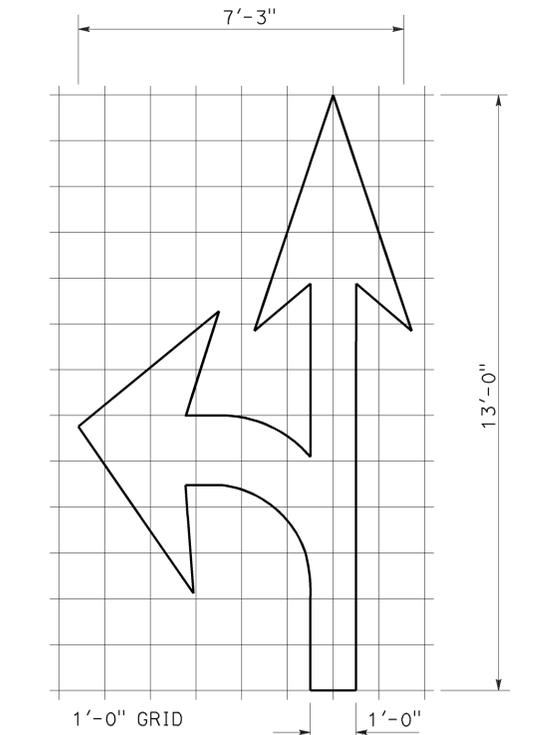
A=42 ft²
TYPE VI ARROW
Right lane drop arrow
(For left lane, use mirror image)



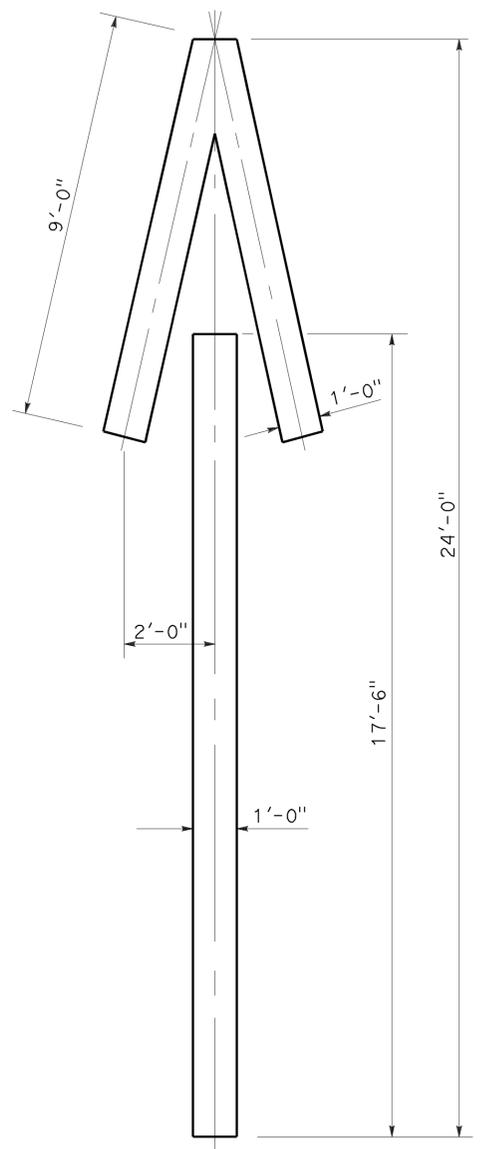
A=3.5 ft²
BIKE LANE ARROW



A=36 ft²
TYPE VIII ARROW



A=27 ft²
TYPE VII (L) ARROW
(For Type VII (R) arrow, use mirror image)



A=33 ft²
TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
ARROWS**
NO SCALE

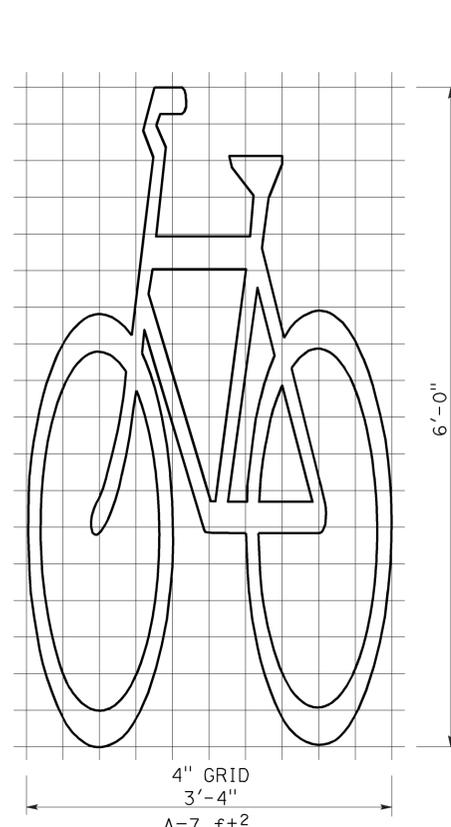
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56,etc.	Var	234	255

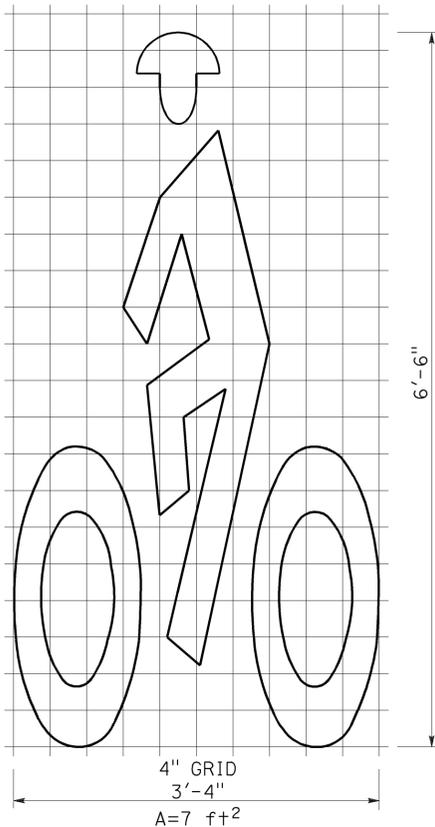
Registered Professional Engineer
 Roberto L. McLaughlin
 No. C40375
 Exp. 3-31-13
 CIVIL
 STATE OF CALIFORNIA

October 19, 2012
 PLANS APPROVAL DATE

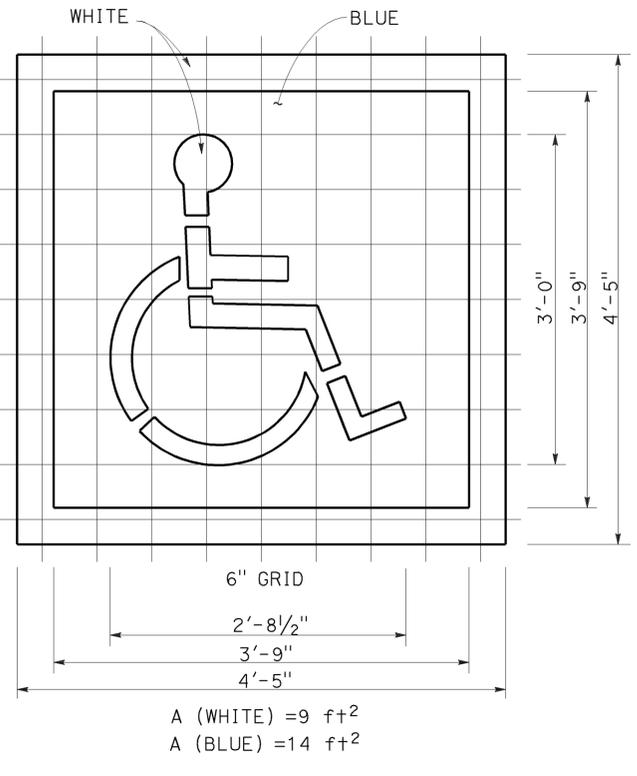
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



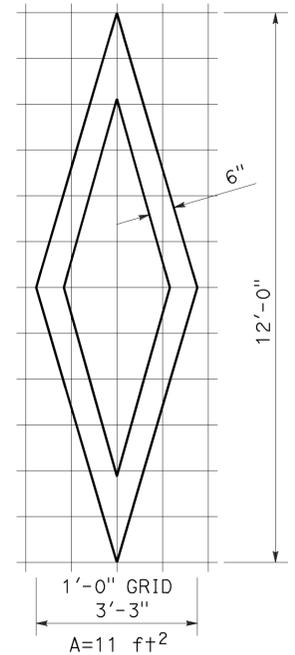
BIKE LANE SYMBOL WITHOUT PERSON



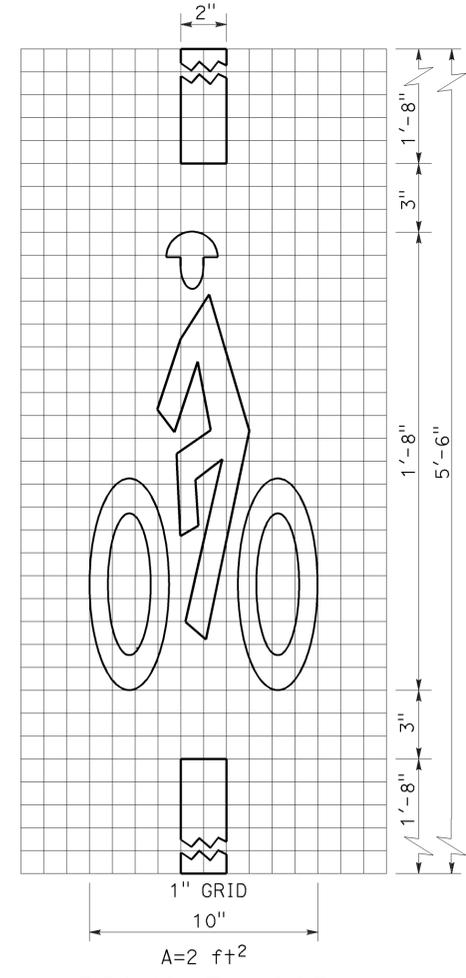
BIKE LANE SYMBOL WITH PERSON



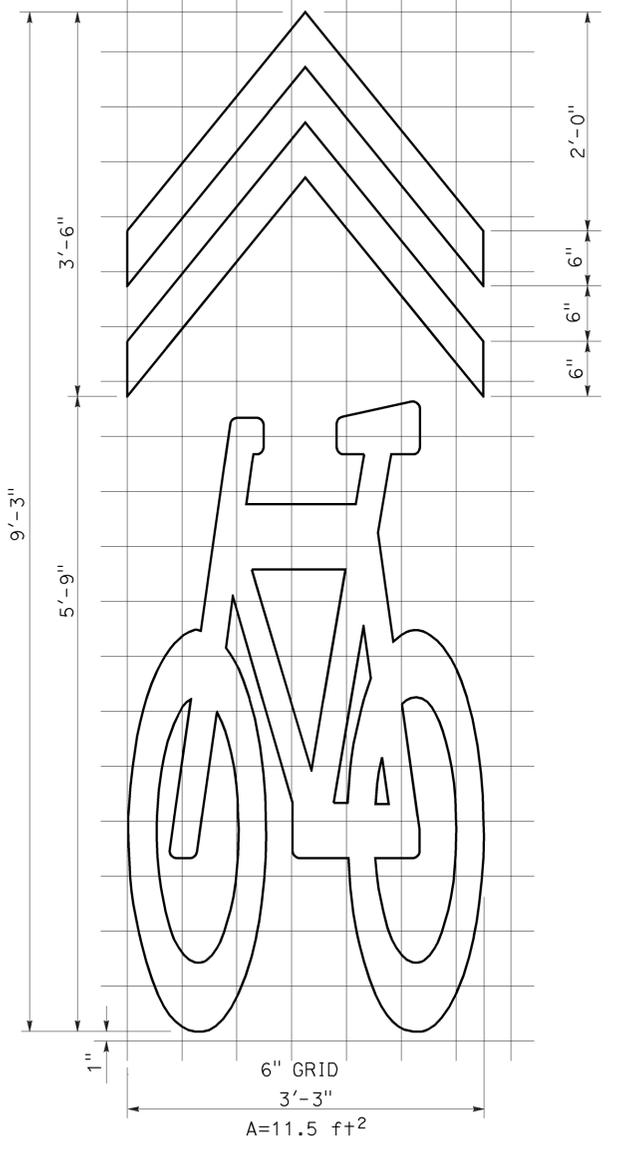
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



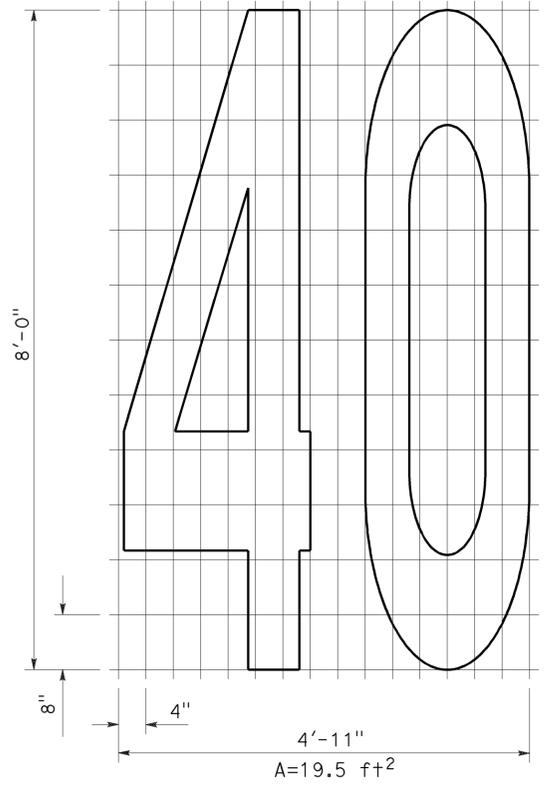
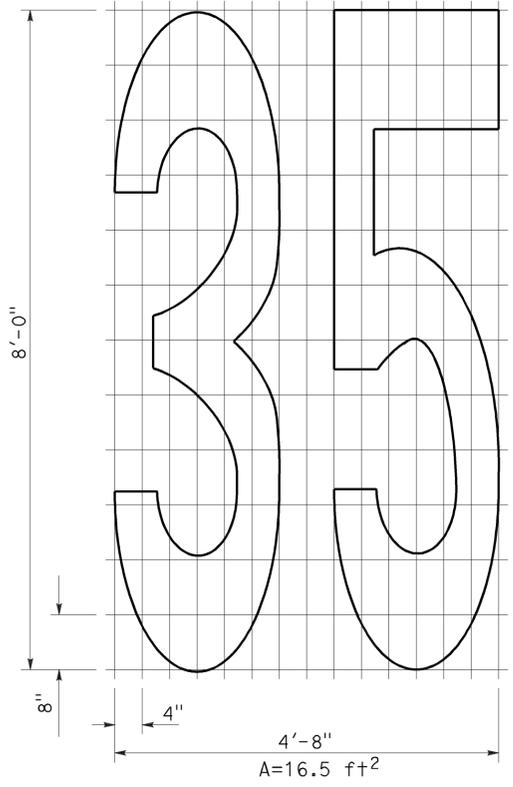
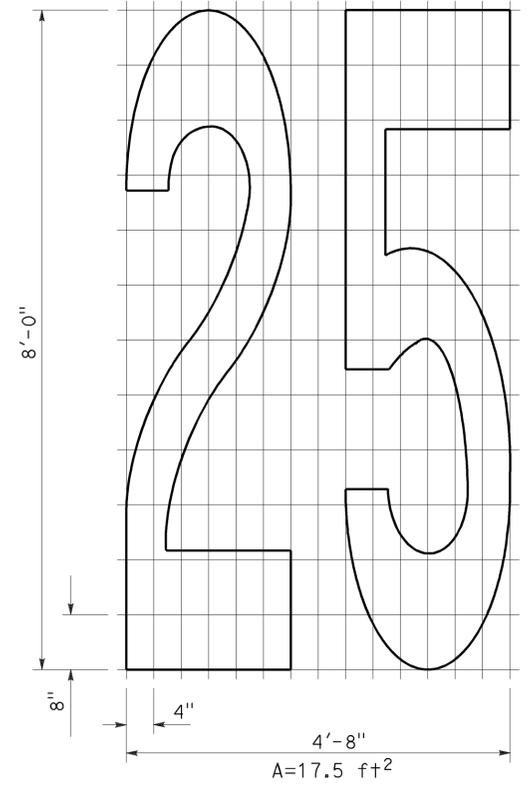
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
 NO SCALE

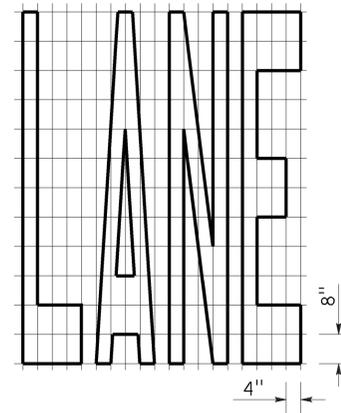
RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

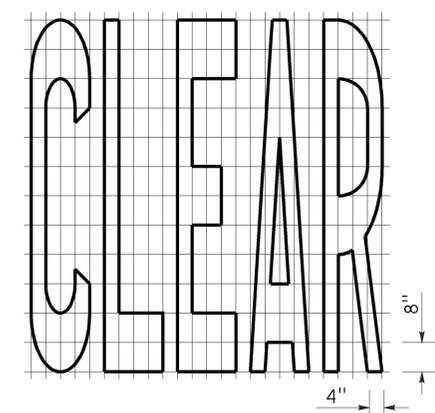
2010 REVISED STANDARD PLAN RSP A24C

TO ACCOMPANY PLANS DATED 04-08-13

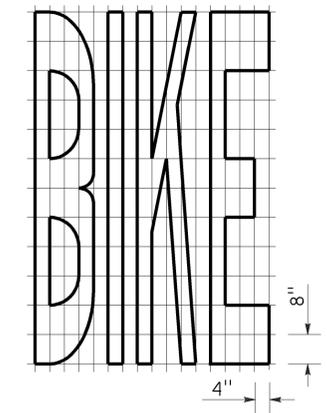
2010 REVISED STANDARD PLAN RSP A24E



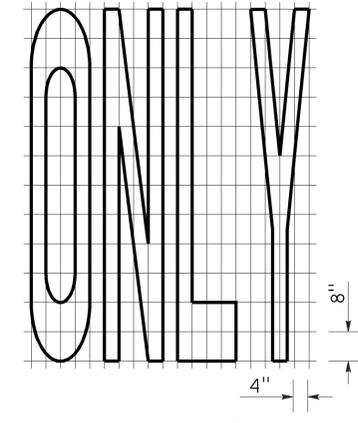
A=24 ft²



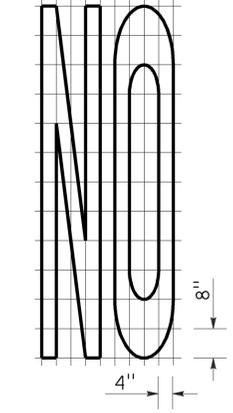
A=27 ft²



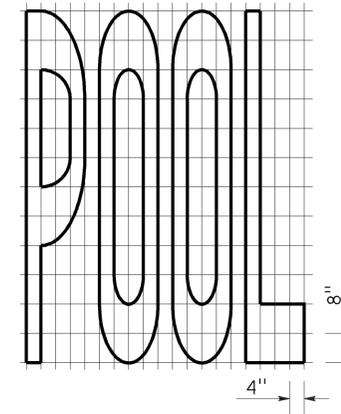
A=21 ft²



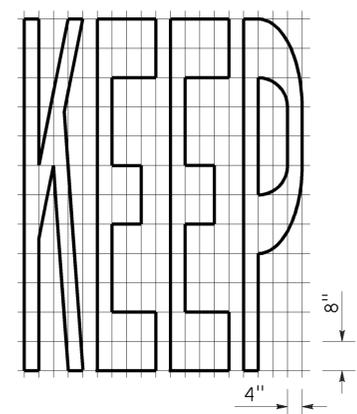
A=22 ft²



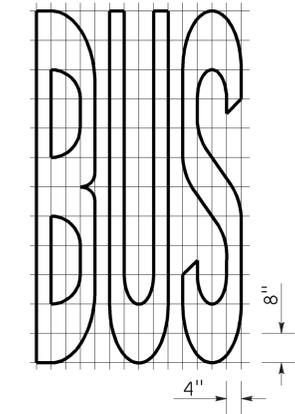
A=14 ft²



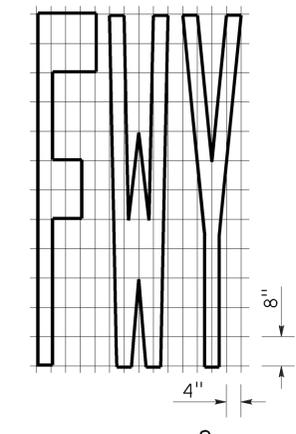
A=23 ft²



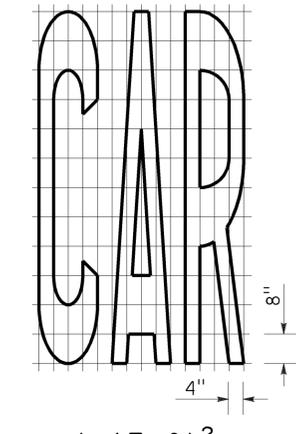
A=24 ft²



A=20 ft²

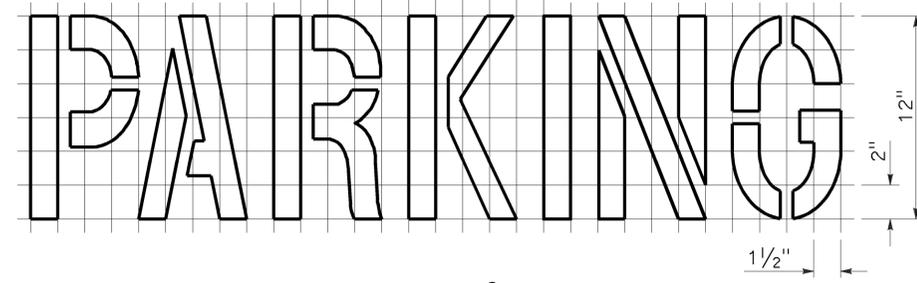
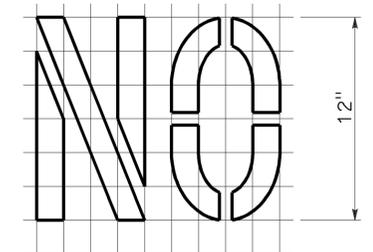


A=16 ft²

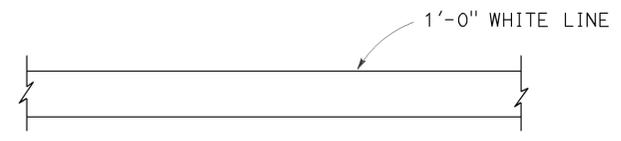


A=17 ft²

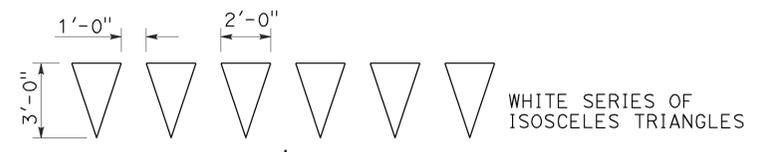
WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



DIRECTION OF TRAVEL
YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES**
NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

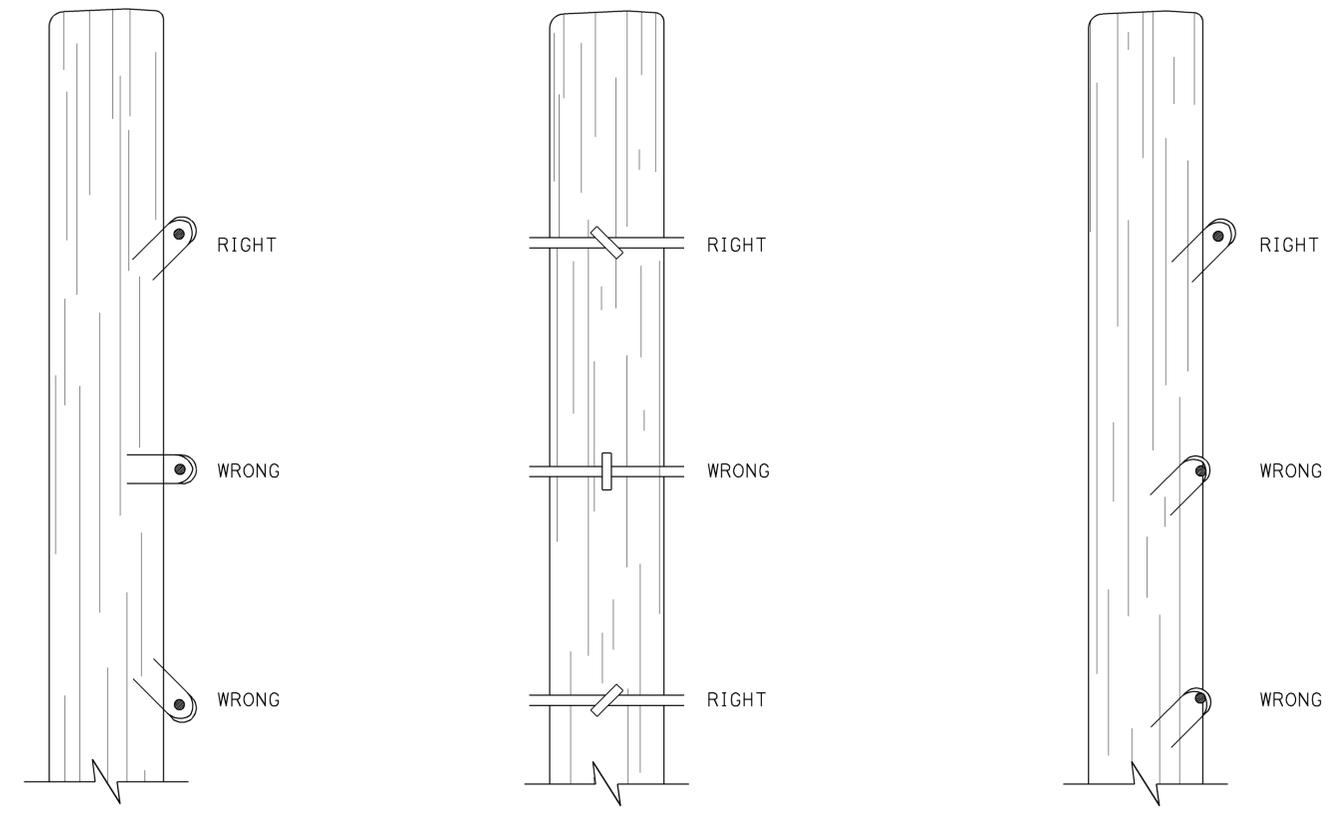
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56,etc.	Var	236	255

Raymond Don Tsztsoo
 REGISTERED CIVIL ENGINEER
 October 19, 2012
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Raymond Don Tsztsoo
 No. C37332
 Exp. 6-30-14
 CIVIL
 STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 04-08-13

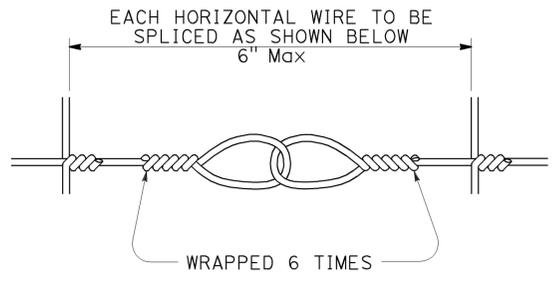


DRIVE STAPLES AT ANGLE

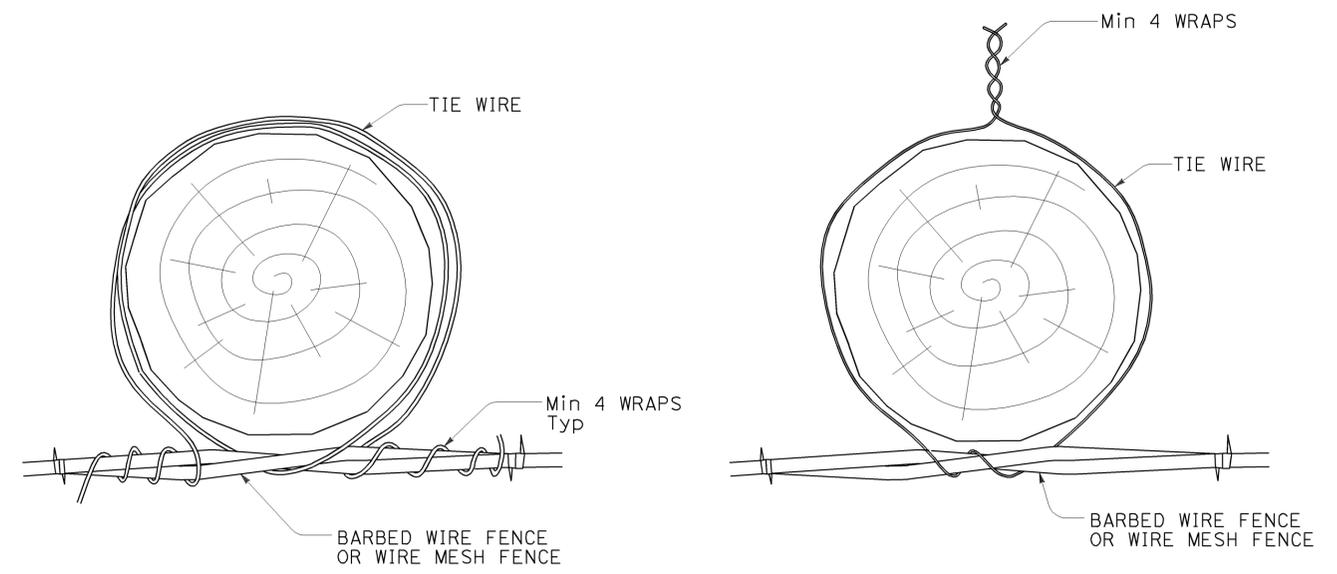
DO NOT DRIVE STAPLES PARALLEL TO SIDE OF POST

LEAVE WIRE LOOSE IN STAPLE

LINE POST STAPLING DETAILS
 (Apply to rectangular/square and round posts)
 Do not staple vertical wire in wire mesh.



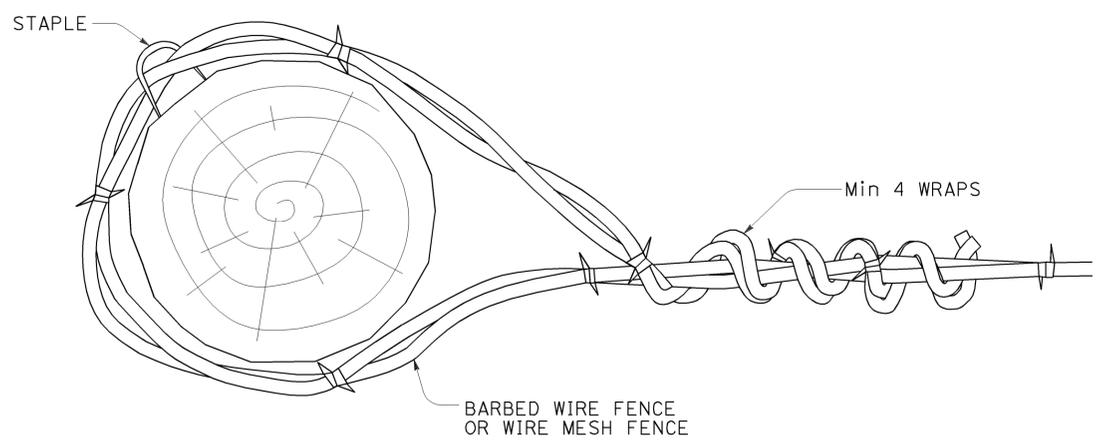
SPLICE DETAIL FOR BARBED WIRE/WIRE MESH FENCE



OPTION A

OPTION B

LINE POST WIRE TIE OPTION DETAILS
 (Option details also apply to rectangular/square posts)



END, LATCH, PULL, AND CORNER POST DETAIL
 (Also applies to rectangular/square posts)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
BARBED WIRE AND WIRE MESH FENCE - MISCELLANEOUS DETAILS
 NO SCALE

RSP A86D DATED OCTOBER 19, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

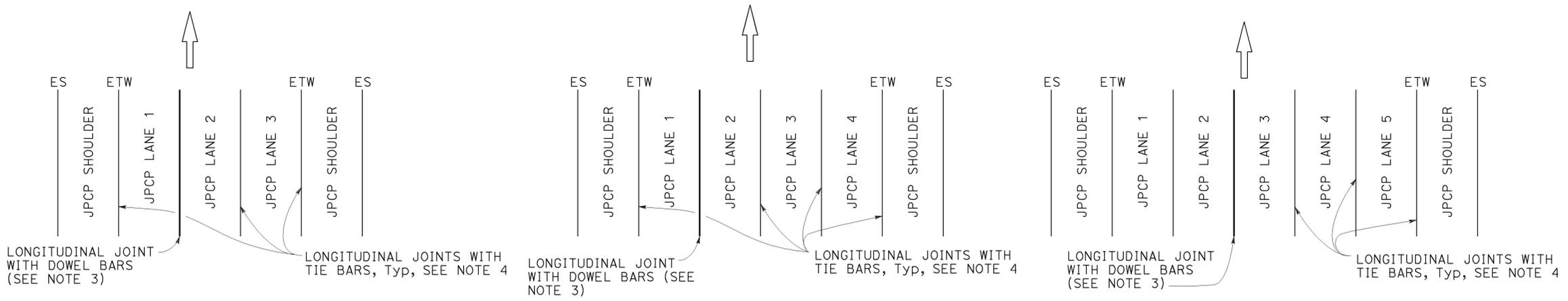
2010 REVISED STANDARD PLAN RSP A86D

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56, etc.	Var	237	255

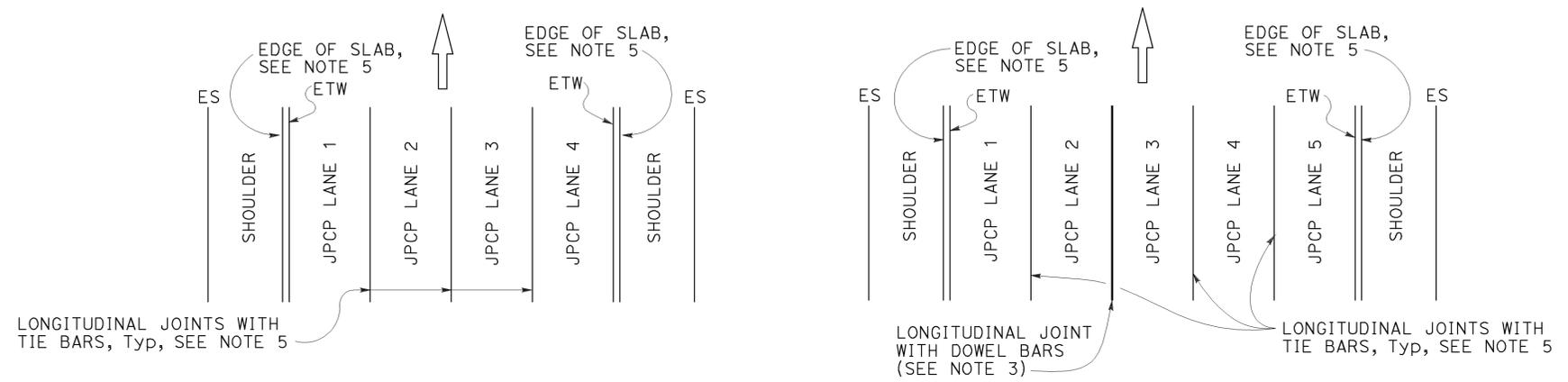
William K. Farnbach
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 William K. Farnbach
 No. C49042
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 04-08-13

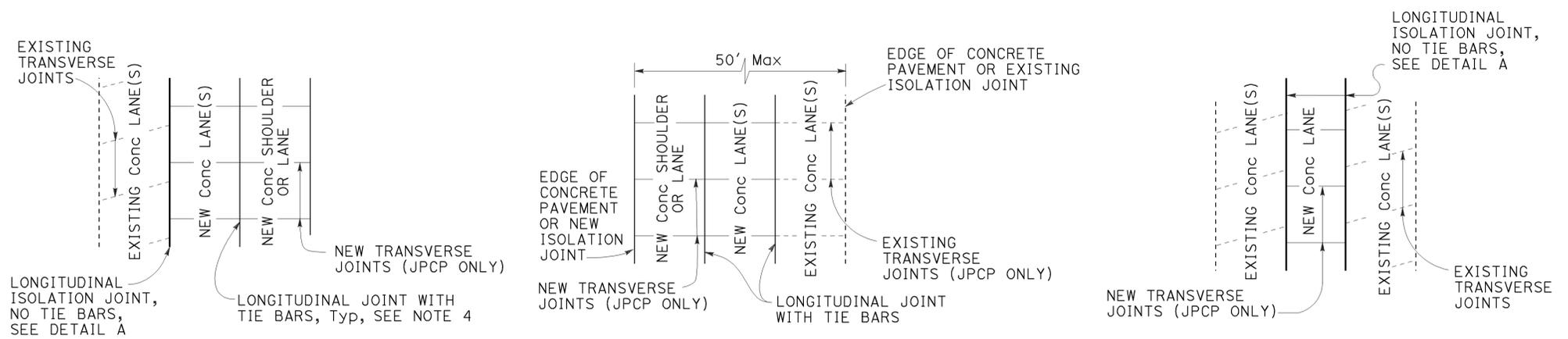


3 LANES WITH CONCRETE SHOULDERS PLAN **4 LANES WITH CONCRETE SHOULDERS PLAN** **5 LANES WITH CONCRETE SHOULDERS PLAN**



4 LANES OR LESS WITH AC SHOULDERS PLAN **5 LANES WITH AC SHOULDERS PLAN**

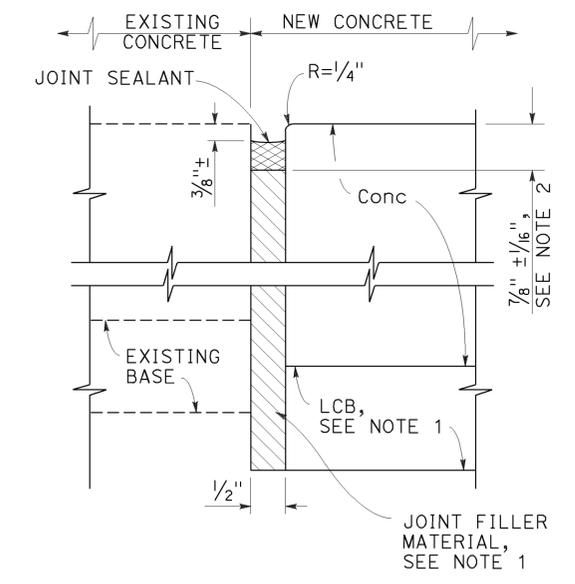
NEW CONSTRUCTION
Location of Longitudinal Joints For JPCP



CASE 1 PLAN **CASE 2 PLAN** **CASE 3 (INTERIOR LANE REPLACEMENT) PLAN**

Transverse Joints do not align between new and existing. Transverse Joints align between new and existing. Transverse Joints do not align between new and existing.

LANE/SHOULDER ADDITION OR RECONSTRUCTION
For JPCP and CRCP



DETAIL "A"
ISOLATION JOINT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-LANE SCHEMATICS AND ISOLATION JOINT DETAIL

NO SCALE

RSP P18 DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN P18 DATED MAY 20, 2011 - PAGE 135 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P18

2010 REVISED STANDARD PLAN RSP P18

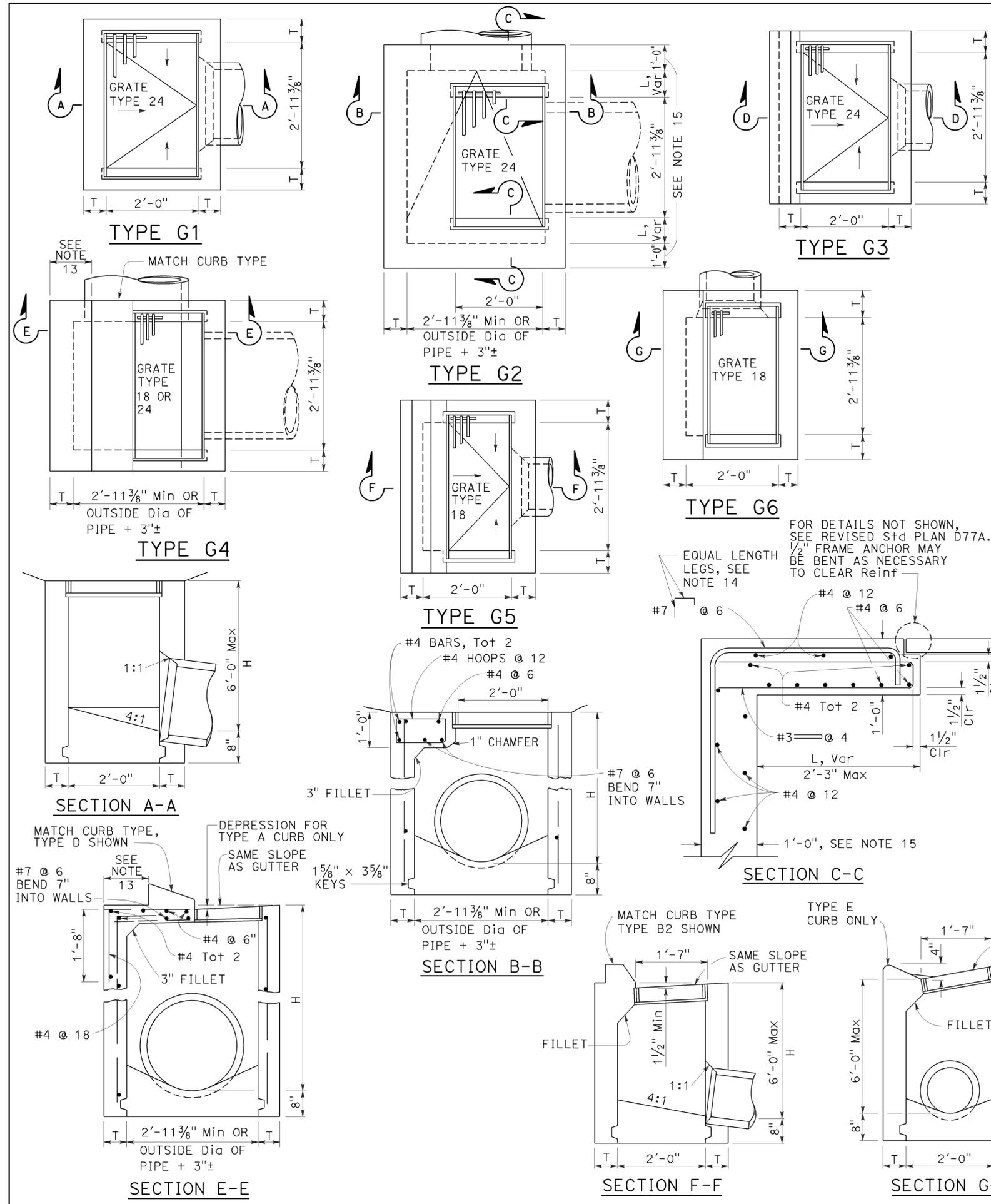
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56, etc.	Var	238	255

Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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



NOTES:

- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
- For "T" wall thickness, see Table A below.
- Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 bars @ 1'-6" ± centers placed 1 1/2" clear to inside of box unless otherwise shown.
- Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom and alternative half round bottom.
- Steps-None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
- Details shown apply to both metal and concrete pipe.
- Pipe(s) can be placed in any wall.
- Curb section shall match adjacent curb.
- Basin floors shall have wood trowel finish and a minimum slope of 12:3 from all directions toward outlet pipe.
- Set inlet so that grate bars are parallel to direction of principal surface flow.
- See Revised Standard Plans D77A and D77B for grate and frame details and weights of miscellaneous iron and steel.
- See Standard Plan D78A for gutter depression details.
- This dimension will vary with different grates, curbs types, box width and wall thickness.
- Bar may be rotated as necessary to clear opening. Where "L" is 6" or less, bar may be omitted.
- Where "L" is 6" or less, wall thickness shall be as shown in Table A.
- Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet, and concrete poured in one continuous operation. Precast inlets shall have mortared connections conforming to details for Type GCP Inlet shown on Standard Plan D75B. See Standard Specifications for mortar composition.

TABLE A

TYPE	CONCRETE QUANTITIES		CONCRETE QUANTITIES	
	H=3'-0" TO 8'-0" (T=6")	H=8'-1" TO 20'-0" (T=8")	H=3'-0" (CY)	H=8'-1" (CY)
G-1	0.95	0.220	See Note A	SEE NOTE A
G-2*	1.31	0.255	3.50	0.357
G-3	1.03	0.220	See Note A	SEE NOTE A
G-4* (TYPE 24)	1.27	0.255	3.48	0.357
G-4* (TYPE 18)	1.30	0.255	3.50	0.357
G-5	1.02	0.220	SEE NOTE A	SEE NOTE A
G-6	1.04	0.220	SEE NOTE A	SEE NOTE A

TABLE BASED ON 8" FLOOR SLAB. NO DEDUCTIONS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES OR DIFFERENT CURB TYPES. * QUANTITIES FOR TYPE G-2 AND G-4 INLETS BASED ON THE MINIMUM INTERIOR DIMENSIONS.

NOTE A:

Maximum allowable height 6'-0".

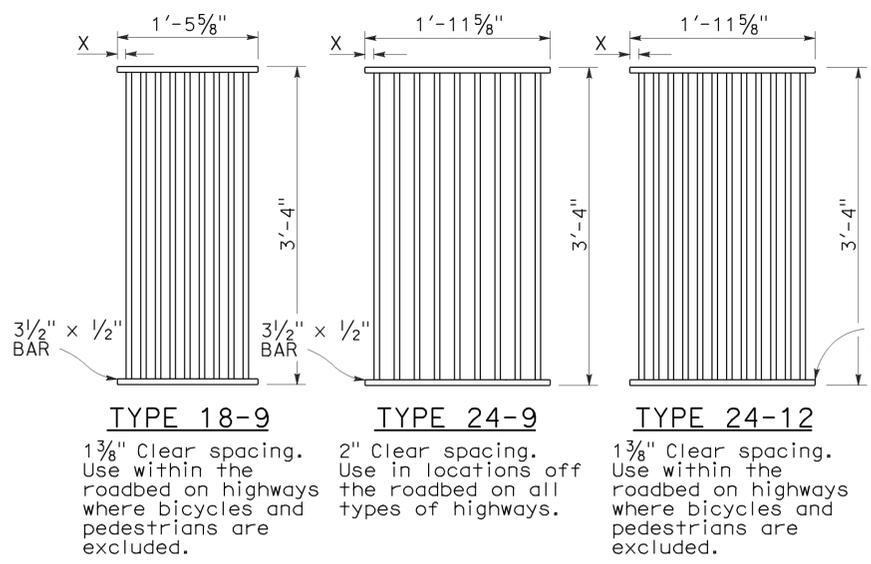
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DRAINAGE INLETS
NO SCALE

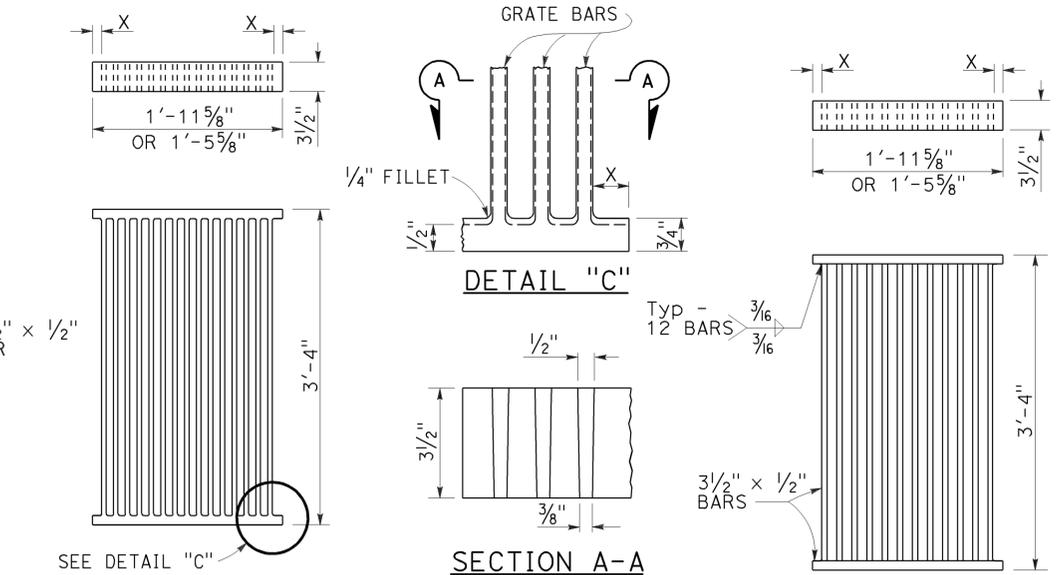
RSP D73 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN D73 DATED MAY 20, 2011 - PAGE 156 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D73

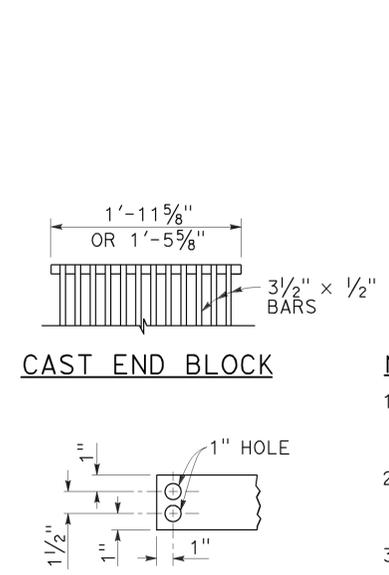
2010 REVISED STANDARD PLAN RSP D73



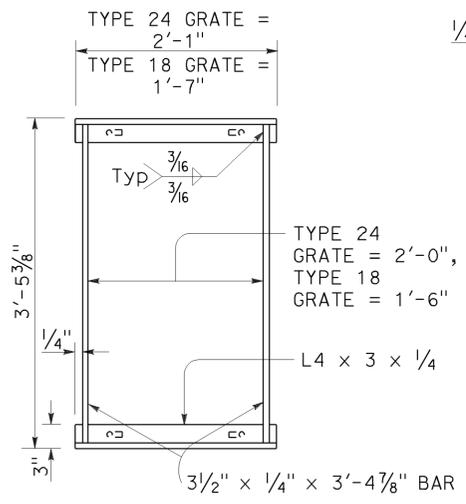
RECTANGULAR GRATE DETAILS
(See table below)



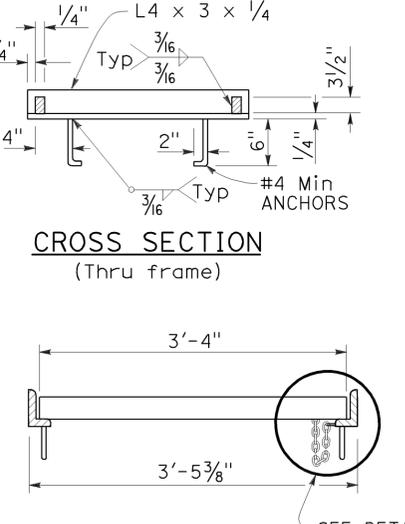
ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE



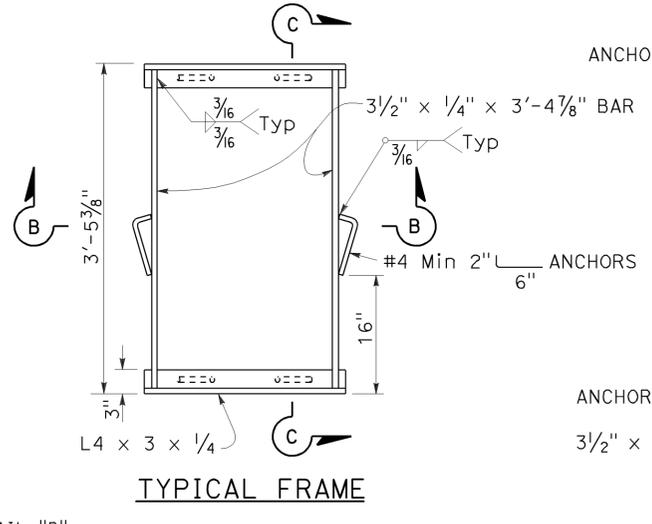
ALTERNATIVE WELDED GRATE



TYPICAL FRAME

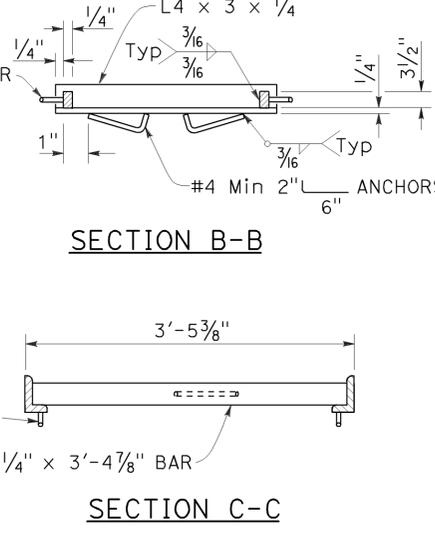


LONGITUDINAL SECTION
(Thru frame and grate)

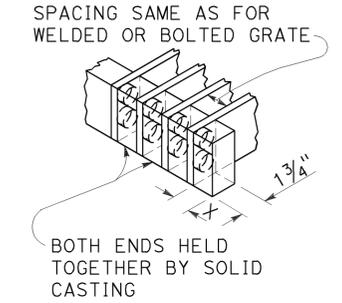


TYPICAL FRAME

ALTERNATIVE ANCHOR FOR RECTANGULAR FRAME
(For details not shown, See Rectangular Frame Details)



SECTION B-B



ALTERNATIVE CAST DUCTILE IRON OR CAST CARBON STEEL END BLOCK GRATE

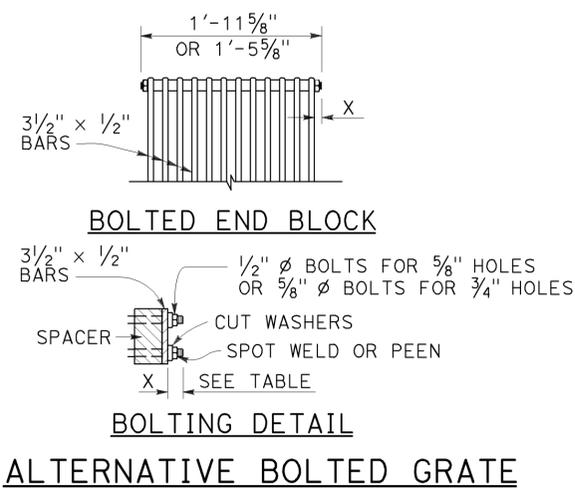
RECTANGULAR FRAME DETAILS
(For all rectangular grates)

GRATE BAR SPACING TABLE

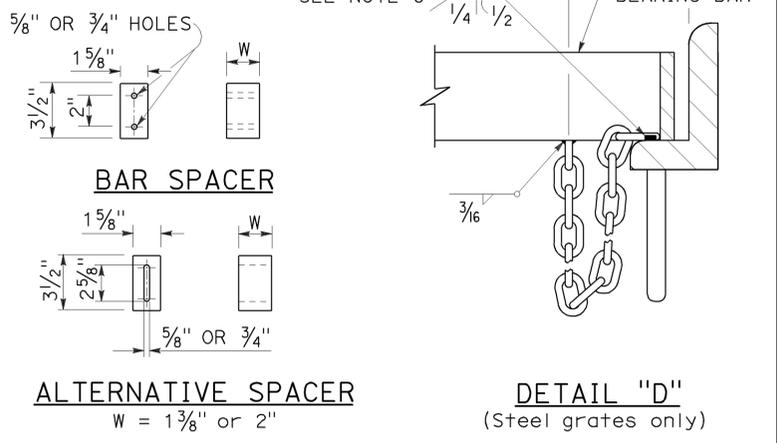
TYPE	NO. OF BARS	CLEAR BAR SPACING	X
18-9	9	1 3/8"	1 1/16"
24-9	9	2"	1 9/16"
24-12	12	1 3/8"	1 1/4"

INLET TYPE	COVER TYPE	WEIGHT LB
OS	PLATE	174
OL-7	PLATE	170
OL-10	PLATE	170
OL-14	PLATE	170
OL-21	PLATE	170
OCPI	PLATE	112
OCPI	PLATE	112
OCPI	REDWOOD	42
OMP	PLATE	177
OMPI	PLATE	177

INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
GDO	24-12	2	634
GOL-7	24-12	1	326
GOL-10	24-12	1	326
G0,G1,G2,G3,G4 (TYPE 24)	24-9	1	263
	24-12	1	326
G4 (TYPE 18),G5,G6	18-9	1	249
GT1	18-9	2	498
GT2	18-9	2	498
GT3	24-12	2	652
GT4	24-12	2	652
TRASH RACK			22
GRATE CHAIN			3



BOLTED END BLOCK



ALTERNATIVE SPACER
W = 1 3/8" or 2"

DETAIL "D"
(Steel grates only)

BASIS FOR MISC IRON & STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS
(See Note 7)

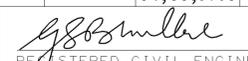
GRATE DETAILS No. 1
NO SCALE

RSP D77A DATED APRIL 19, 2013 SUPERSEDES RSP D77A DATED JULY 20, 2012 AND STANDARD PLAN D77A DATED MAY 20, 2011 - PAGE 164 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D77A

2010 REVISED STANDARD PLAN RSP D77A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56, etc.	Var	241	255


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 04-08-13

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
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

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

REVISED STANDARD PLAN RSP T9

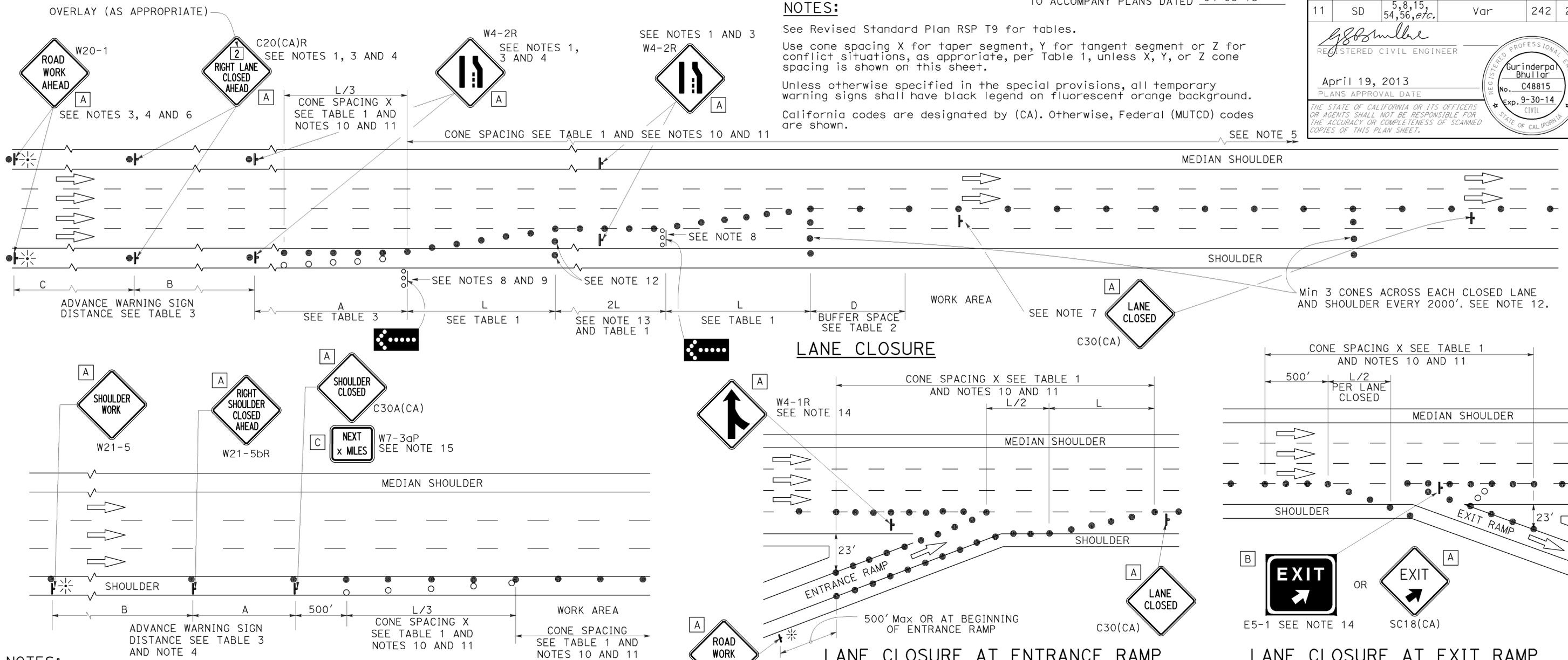
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56, etc.	Var	242	255

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) 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.

NOTES:

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

LANE CLOSURE

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
11	SD	5,8,15, 54,56, etc.	Var	243	255

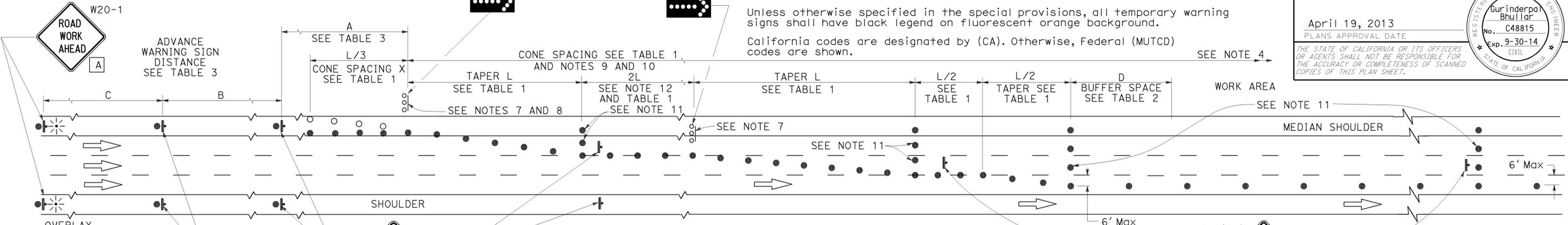
REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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.

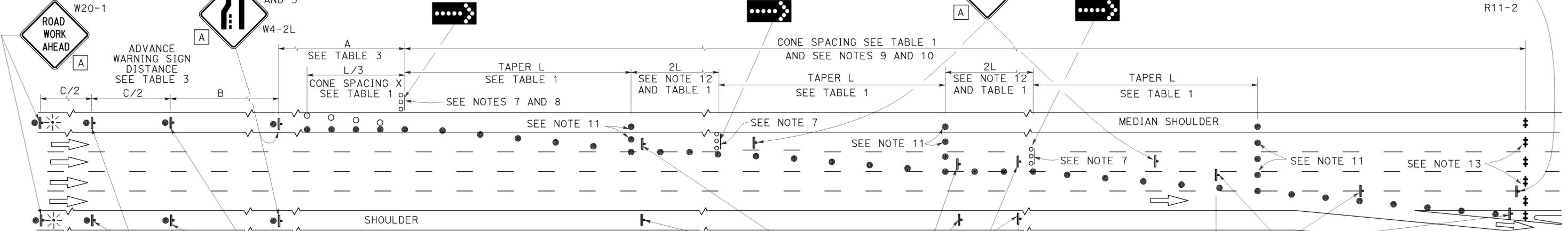
NOTES: See Revised Standard Plan RSP T9 for tables.
 Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
 Unless otherwise specified in the special provisions, all temporary warning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

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

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

SIGN PANEL SIZE (Min)

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

LEGEND

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

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

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

REVISED STANDARD PLAN RSP T10A

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

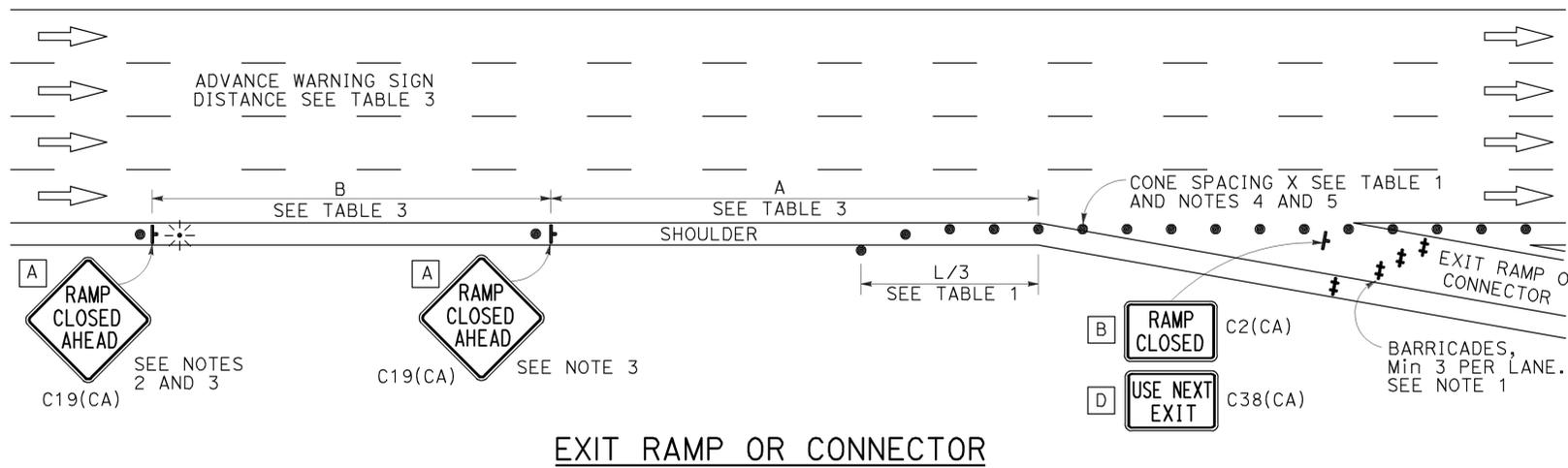
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56, etc.	Var	244	255

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

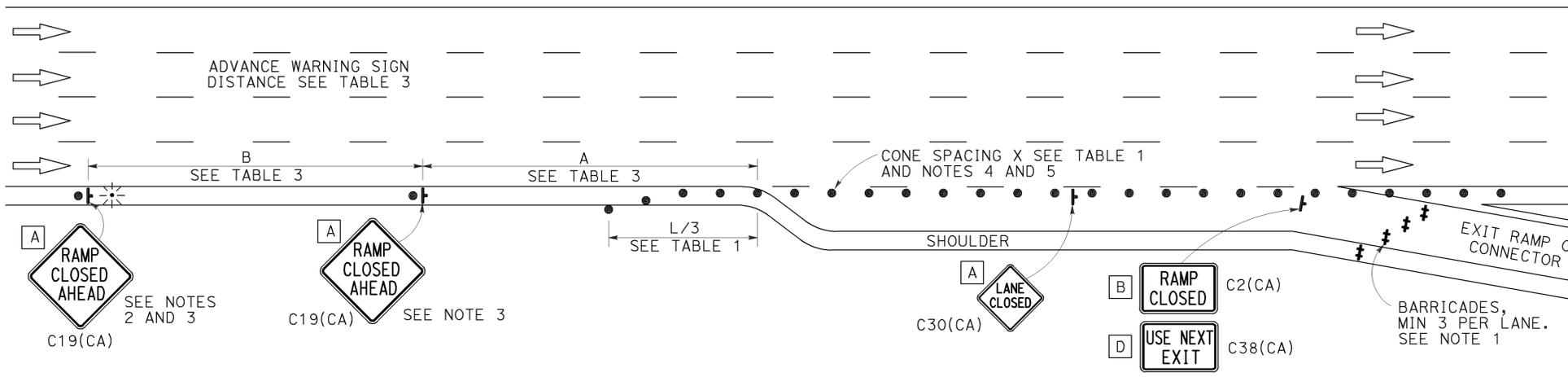
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 04-08-13

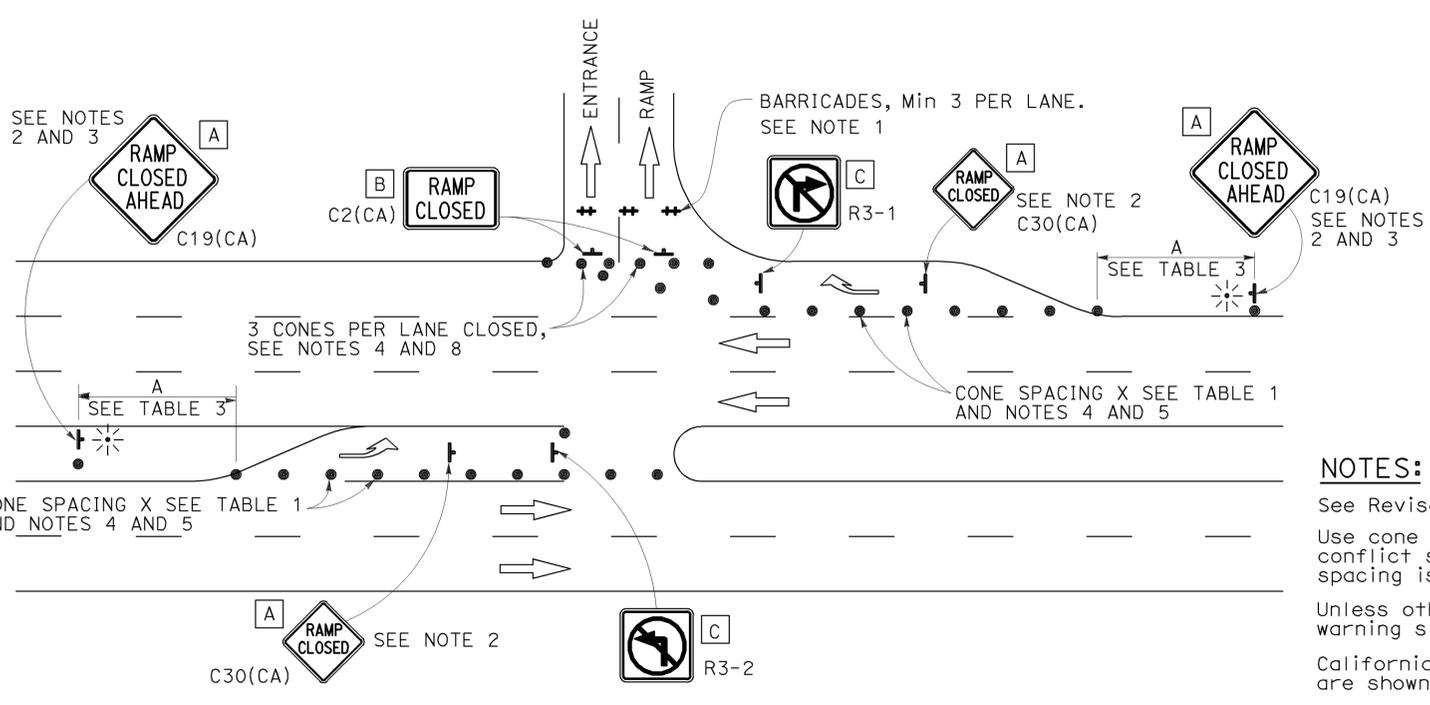
2010 REVISED STANDARD PLAN RSP T14



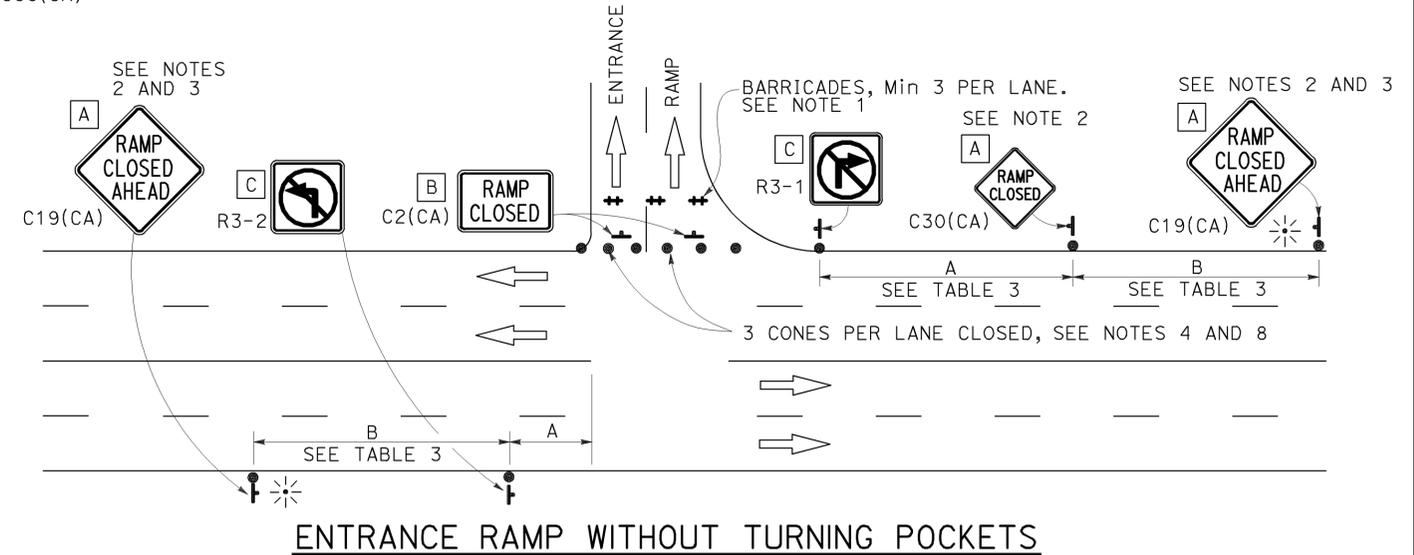
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

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

NOTES:

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

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

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

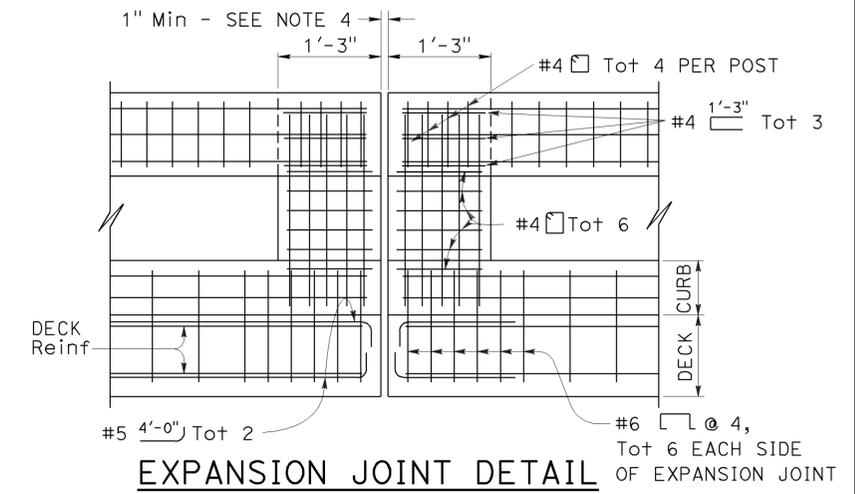
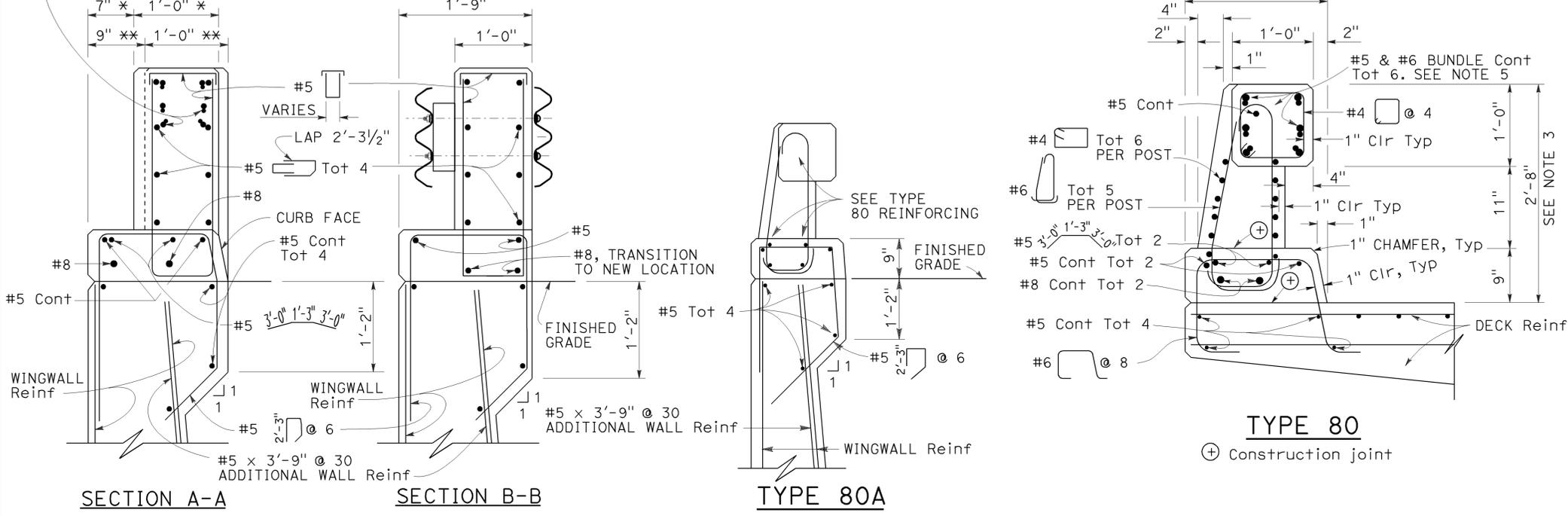
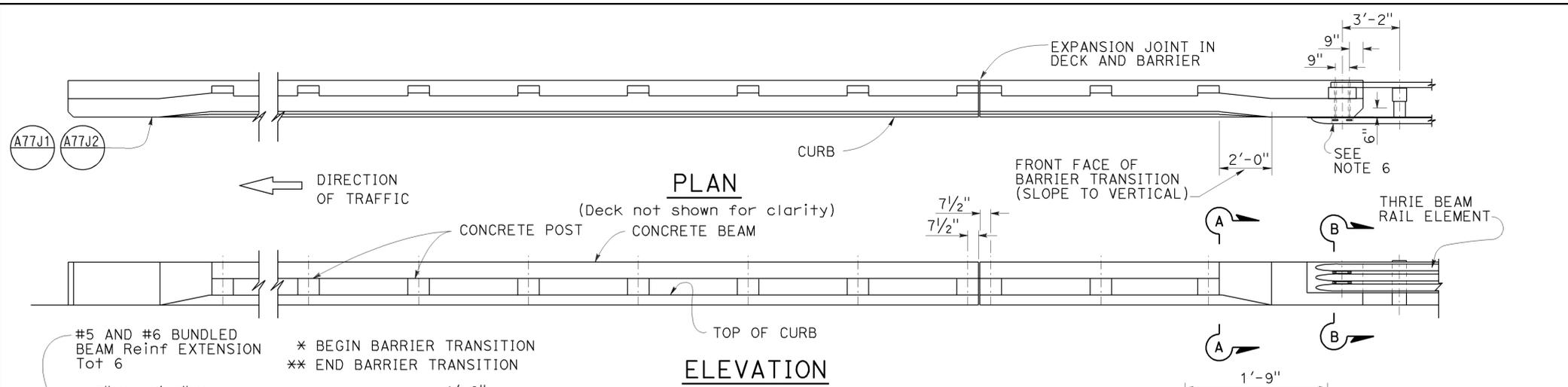
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15, 54,56, etc.	Var	245	255

REGISTERED CIVIL ENGINEER

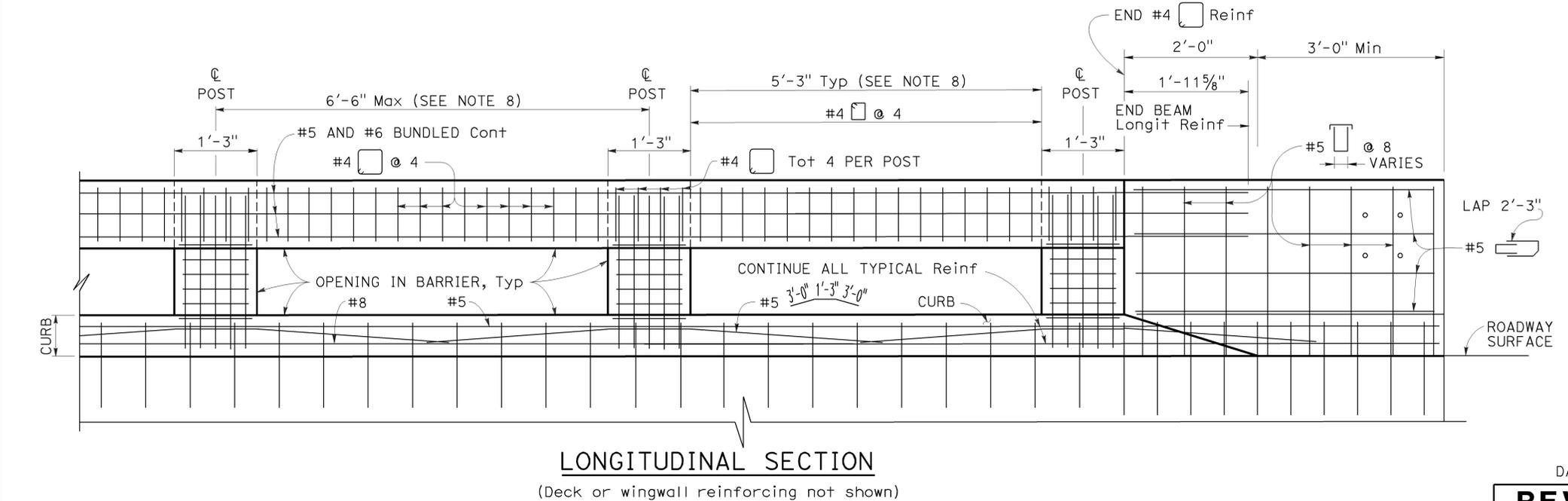
April 20, 2012
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Tillat Satter
No. C42892
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA



- NOTES:**
1. Walls are to be backfilled before the barrier is placed.
 2. Longitudinal reinforcing steel to stop at all expansion joints.
 3. The front face dimensions are to be constant above the finish roadway profile, but the overall height will vary with certain thicknesses of surfacing and roadway slopes.
 4. Expansion joint to match deck joint.
 5. No lap splicing allowed on the longitudinal rail reinforcing. Splicing shall be staggered.
 6. For typical metal railing connection details not shown, see Standard Plans A77J1 and A77J2.
 7. Chain link railing is not allowed on Type 80 Barriers.
 8. Post to be spaced equally, typically 6'-6" spacing. Post spacing may be reduced where location of hinges or expansion joints or the length of wingwalls will not accommodate the 6'-6" spacing. Maximum see-through availability is to be strived for, where 6'-6" post spacing can not be achieved.

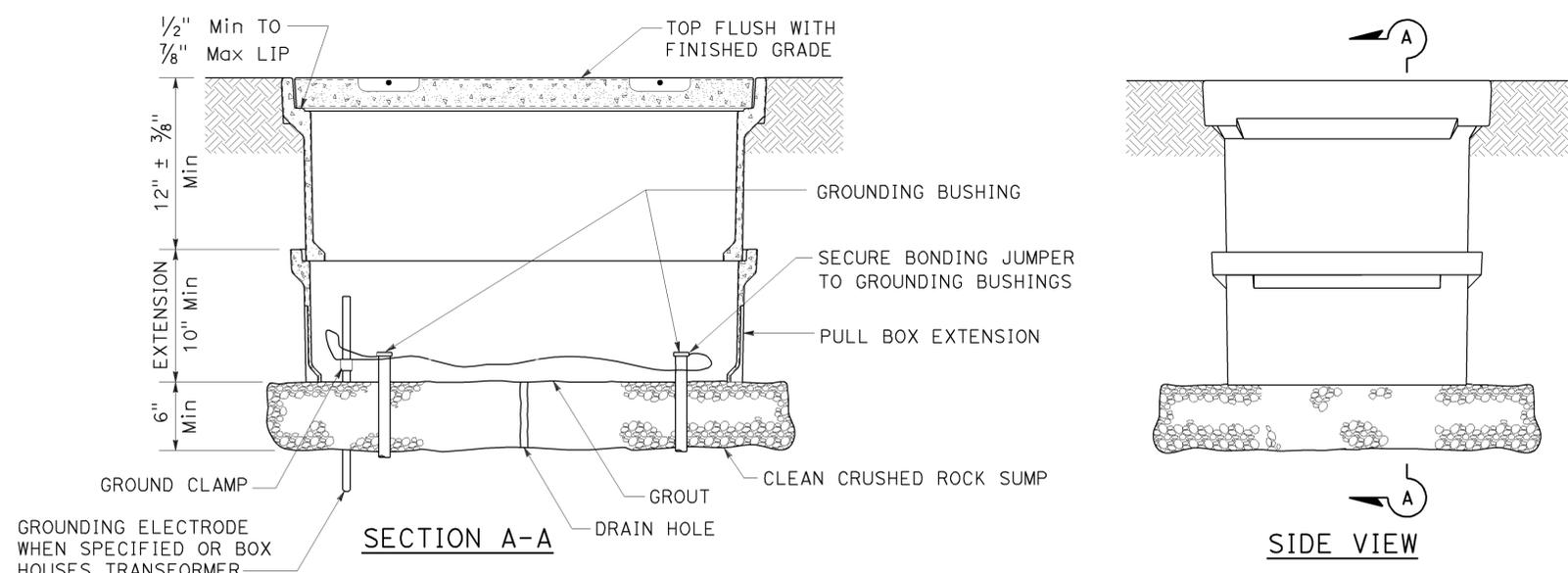


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE BARRIER
TYPE 80
(SHEET 1 OF 2)**
NO SCALE

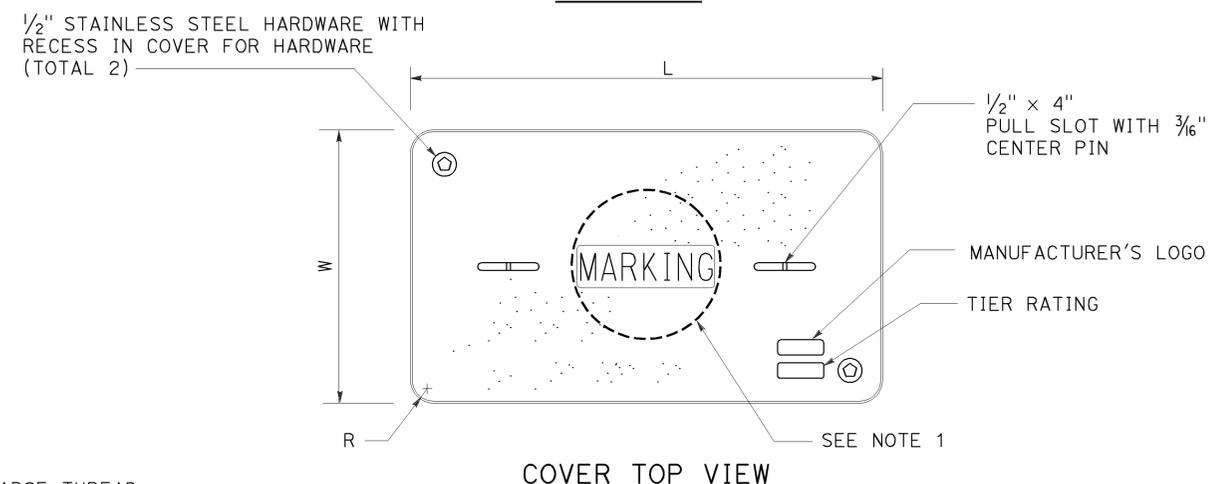
RSP B11-60 DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN B11-60
DATED MAY 20, 2011 - PAGE 300 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP B11-60

2010 REVISED STANDARD PLAN RSP B11-60

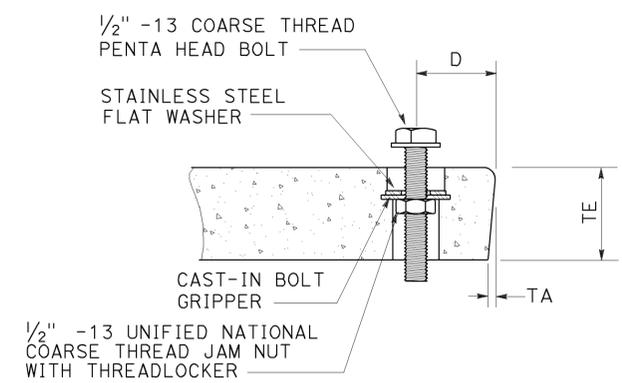
TO ACCOMPANY PLANS DATED 04-08-13



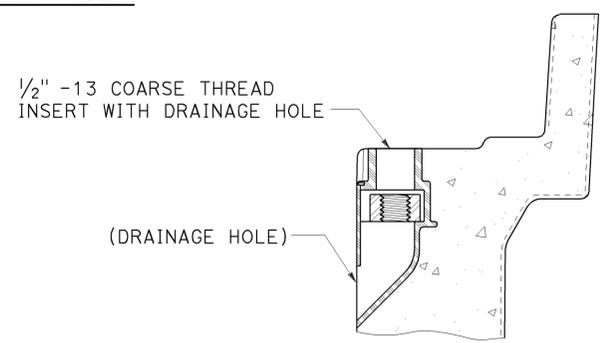
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

NOTES ON PULL BOXES:

- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - No. 3/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
- Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

DIMENSION TABLE

PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
 NO SCALE

RSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-8A

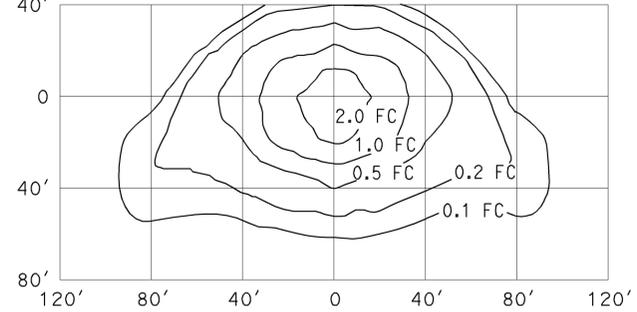
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5,8,15,54,56,etc.	Var		255

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 July 20, 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
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-14
 ELECTRICAL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 04-08-13

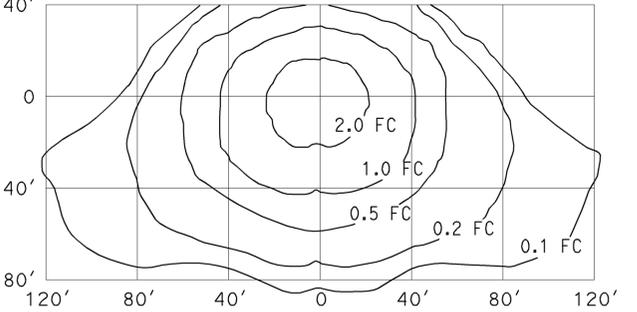
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
 34' Mounting Height
 Lamp operated at 22,000 lm
 200-W high pressure sodium lamp
 ANSI Designation S66

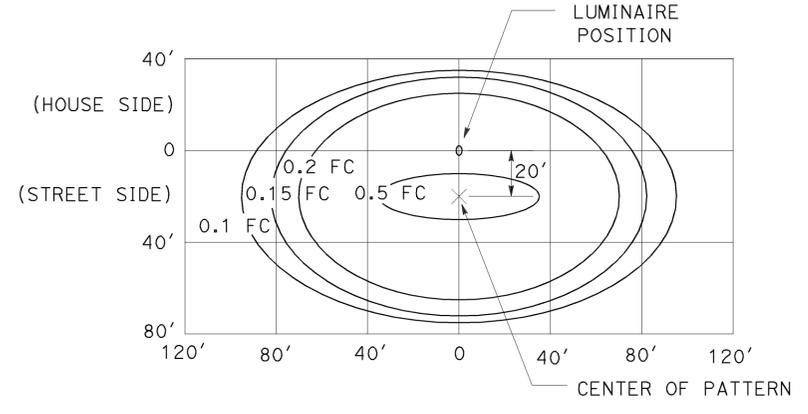
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
 40' Mounting Height
 Lamp operated at 37,000 lm
 310-W high pressure sodium lamp
 ANSI Designation S67

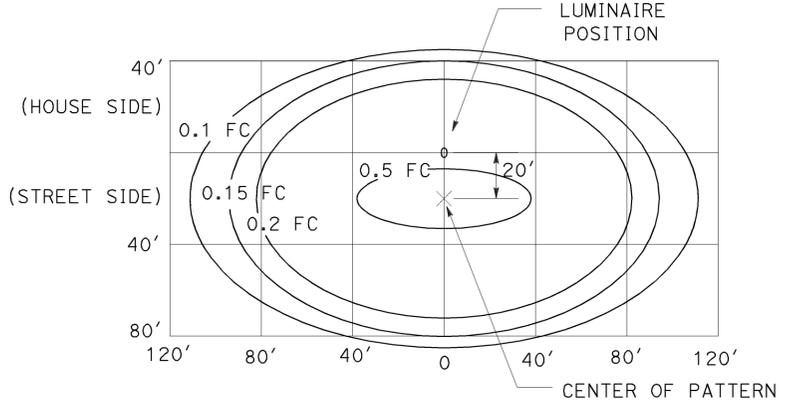
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 1

200-W HPS Equivalent at 34' Mounting Height

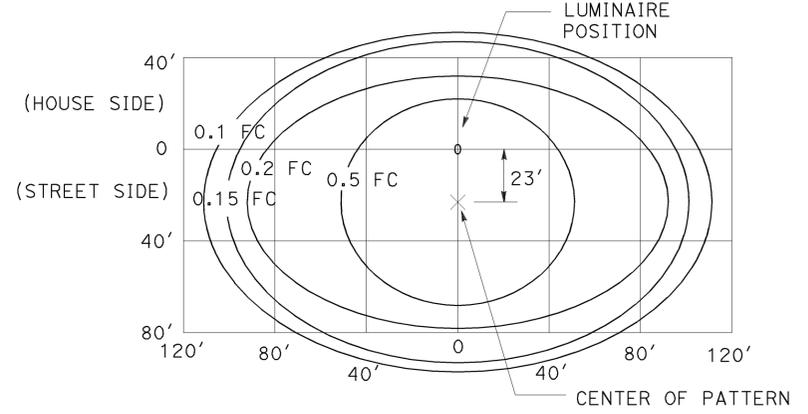
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 2

310-W HPS Equivalent at 40' Mounting Height

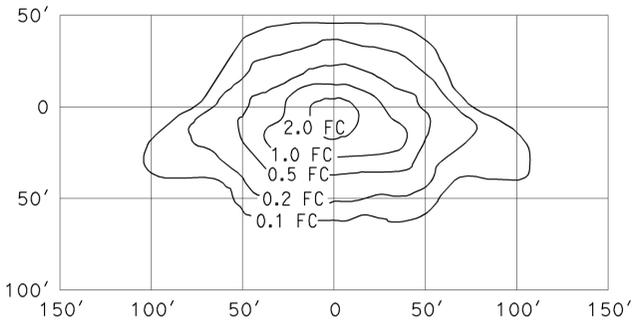
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4

400-W HPS Equivalent at 40' Mounting Height

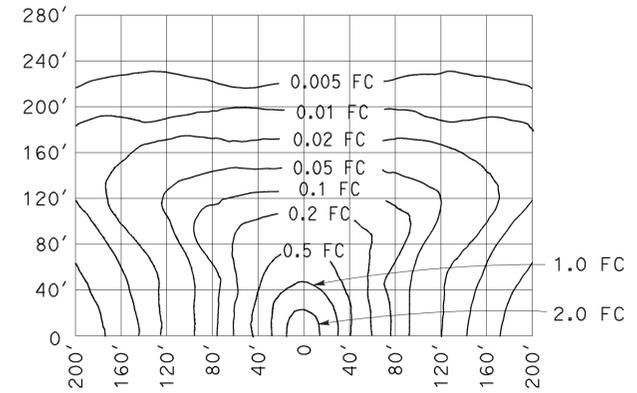
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
 30' Mounting Height
 Lamp operated at 16,000 lm
 150-W high pressure sodium lamp
 ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



LOW PRESSURE SODIUM LUMINAIRE

40' Mounting Height
 Lamp operated at 33,000 lm
 180-W low pressure sodium lamp

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
 (ISOFOOTCANDLE DIAGRAMS)**

NO SCALE

RSP ES-10A DATED JULY 20, 2012 SUPPLEMENTS THE
 STANDARD PLANS BOOK DATED 2010.

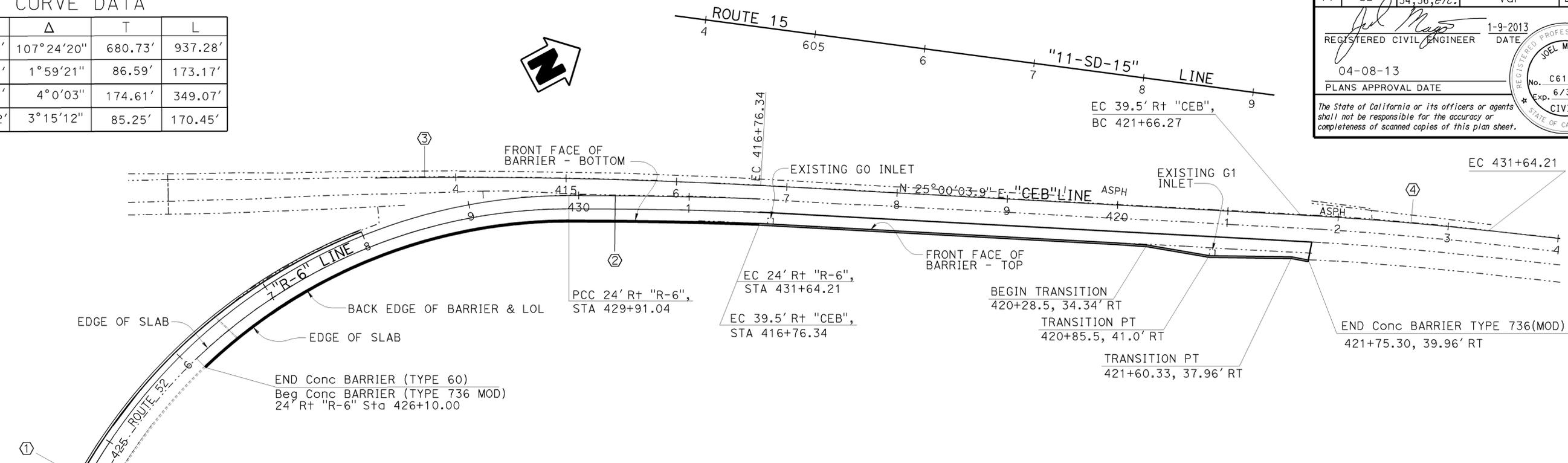
2010 REVISED STANDARD PLAN RSP ES-10A

CURVE DATA

No.	R	Δ	T	L
①	499.99'	107°24'20"	680.73'	937.28'
②	4988.25'	1°59'21"	86.59'	173.17'
③	4999.13'	4°0'03"	174.61'	349.07'
④	3001.72'	3°15'12"	85.25'	170.45'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 15, 54, 56, etc.	Var	248	255

1-9-2013
 REGISTERED CIVIL ENGINEER DATE
 04-08-13
 PLANS APPROVAL DATE
 No. C61500
 Exp. 6/30/13
 CIVIL
 STATE OF CALIFORNIA
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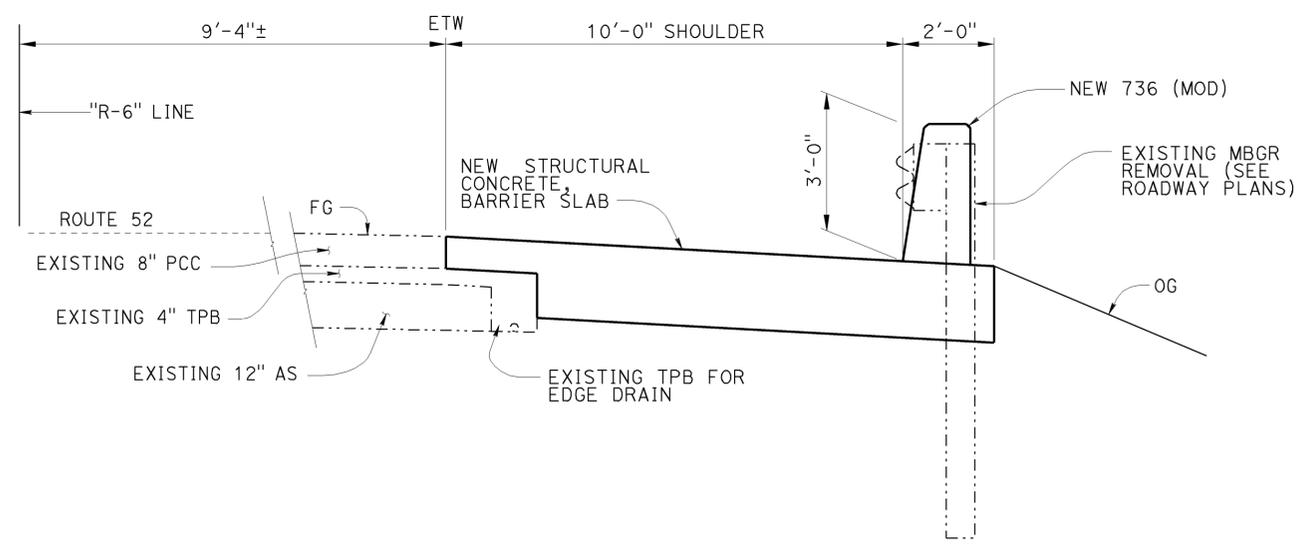
PLAN
1" = 50'

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN
2	BARRIER SLAB DETAILS
3	EXCAVATION AND BACKFILL

STANDARD PLANS DATED 2010

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
D73	DRAINAGE INLETS
P18	CONCRETE PAVEMENT-LANE SCHEMATICS AND ISOLATION JOINT DETAIL



TYPICAL SECTION
1/2" = 1'-0"

QUANTITIES	
STRUCTURAL CONCRETE, BARRIER SLAB	717 CY
CONCRETE BARRIER (TYPE 736 MODIFIED)	1,034 LF

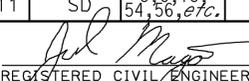
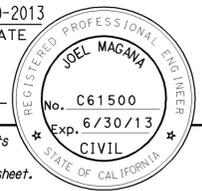
LEGEND

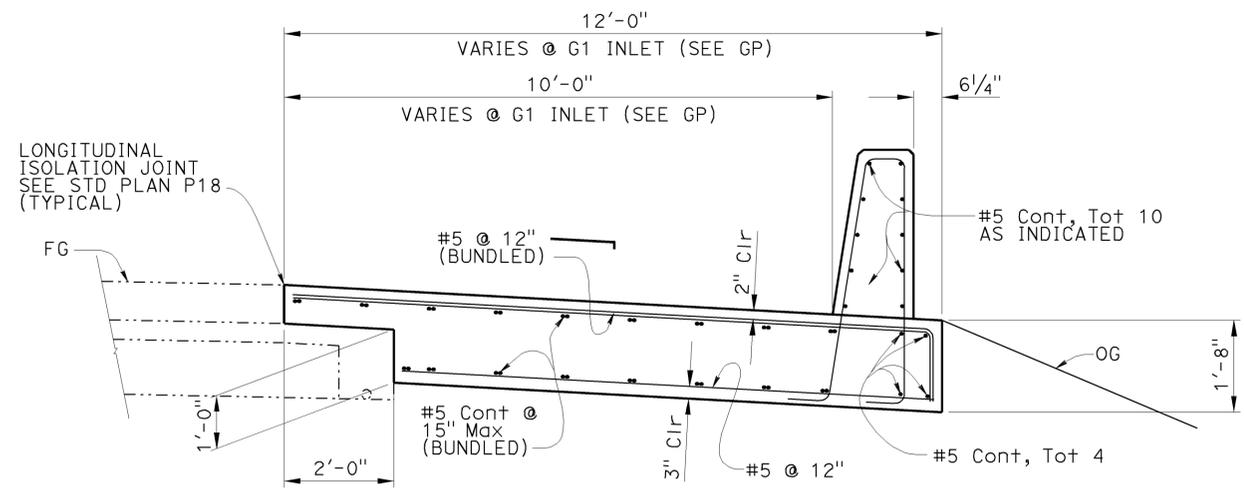
- INDICATES EXISTING
- INDICATES NEW

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

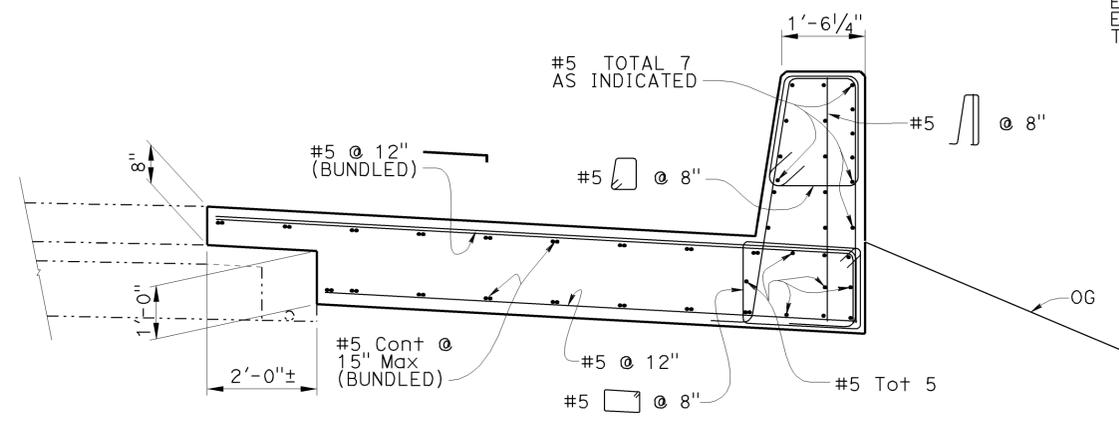
JAMES SAGAR DESIGN ENGINEER	DESIGN	BY JOEL MAGANA	CHECKED P C WELLS	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. N/A	BARRIER SLAB WITH 736(MOD) RAIL GENERAL PLAN	
	DETAILS	BY P C WELLS	CHECKED JOEL MAGANA	LAYOUT	BY PAUL WELLS		CHECKED JOEL MAGANA	SPECIAL DESIGNS BRANCH		POST MILE VAR
	QUANTITIES	BY N KANEPATHIPILLAI	CHECKED P C WELLS	SPECIFICATIONS	BY KEVIN ELLINGSON		CHECKED PLANS AND SPECS COMPARED X	UNIT: 3619 PROJECT NUMBER & PHASE: 1100000531		CONTRACT NO.: 11-401401

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
 0 1 2 3
 REVISION DATES: 12-21-12, 1-2-13, 1-10-13
 SHEET 1 OF 3
 FILE => 11-401401a_aa-gp-01.dgn

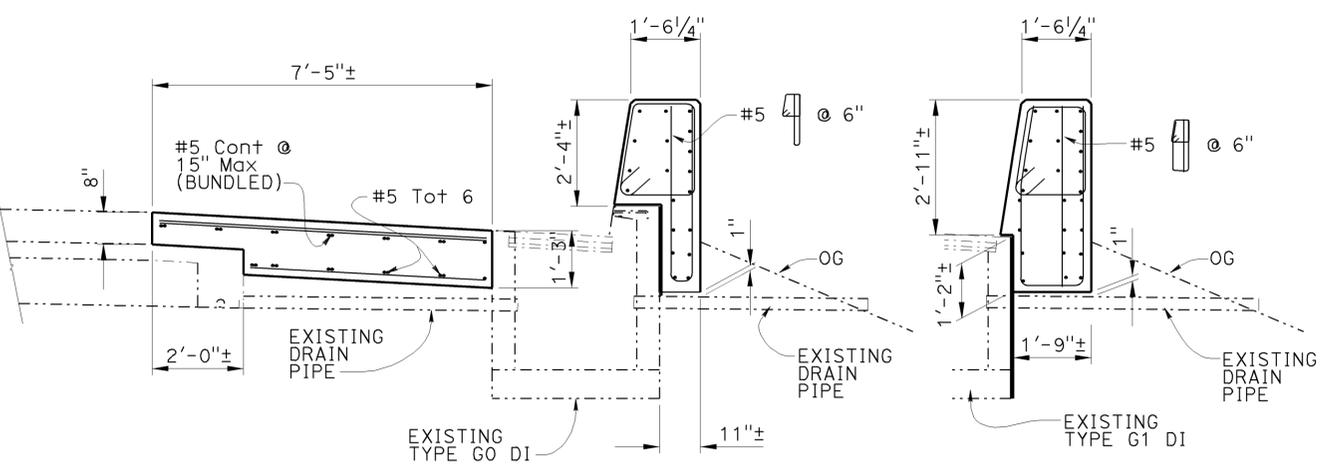
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11	SD	5, 8, 15, 54, 56, etc.	Var	249	255
 REGISTERED CIVIL ENGINEER			DATE	1-9-2013	
PLANS APPROVAL DATE 04-08-13					
<i>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</i>					



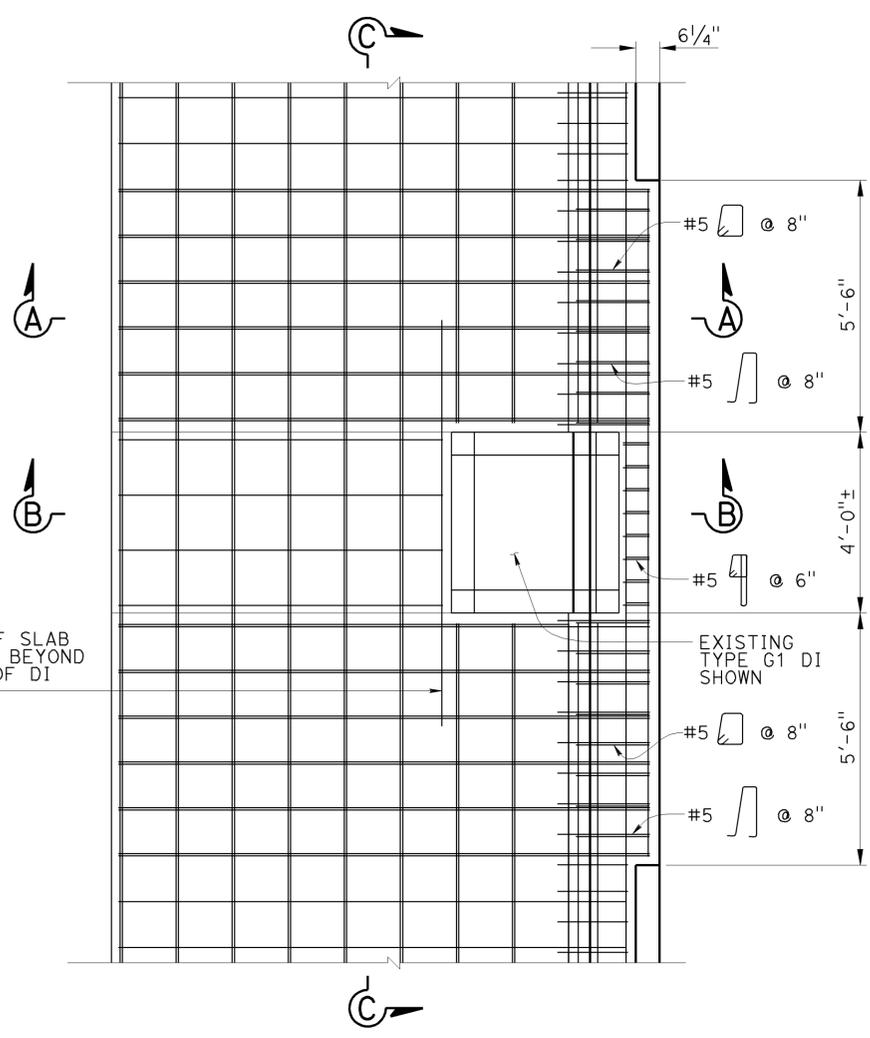
**TYPICAL SECTION
BARRIER SLAB AND BARRIER**
NO SCALE



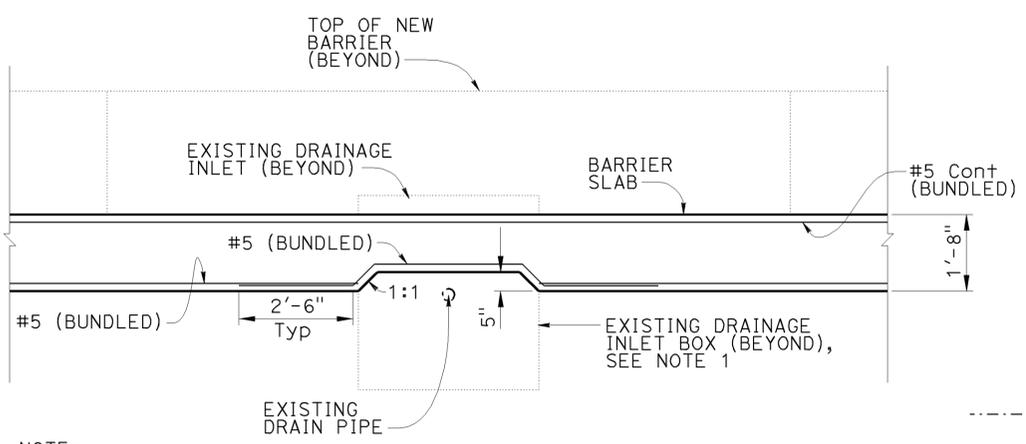
SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



REINFORCING PLAN AT DI
NO SCALE



SECTION C-C
NO SCALE

- NOTES:
- Use 1/4" minimum expansion material placed entirely around DI.

LEGEND

-----	Indicates existing structure
—————	Indicates new construction

LOCATION 24

DESIGN	BY JOEL MAGANA	CHECKED PAUL WELLS
DETAILS	BY P C WELLS	CHECKED JOEL MAGANA
QUANTITIES	BY N KANEPATHIPILLIAI	CHECKED P C WELLS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGN BRANCH

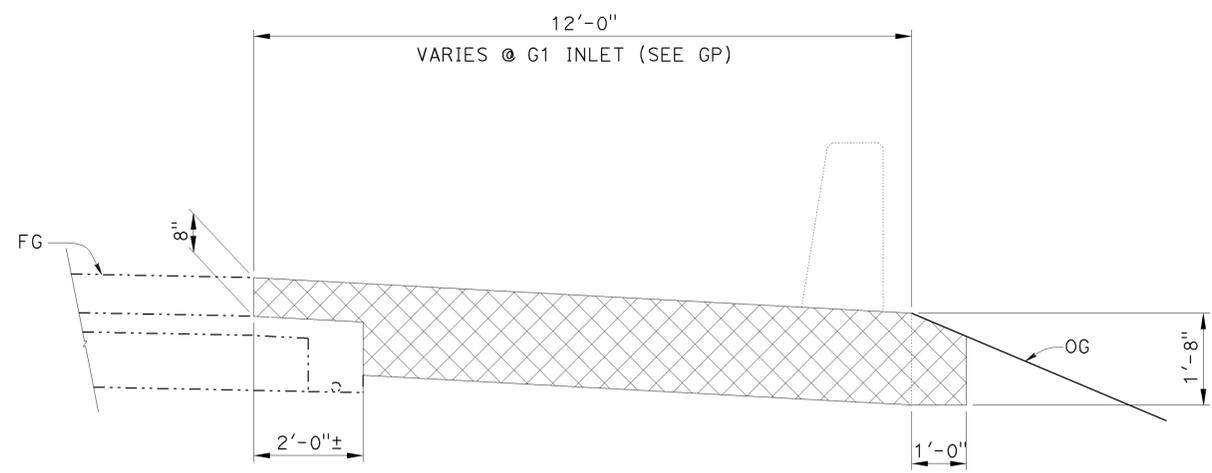
BRIDGE NO.	NA
POST MILE	VAR

BARRIER SLAB WITH 736(MOD) RAIL
BARRIER SLAB DETAILS

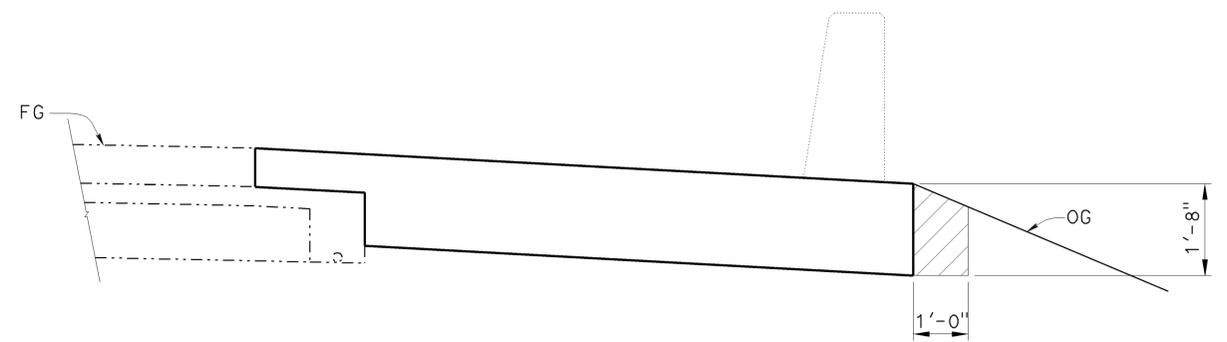
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 REGISTERED CIVIL ENGINEER			1-9-2013	DATE	
PLANS APPROVAL DATE 04-08-13					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

LEGEND

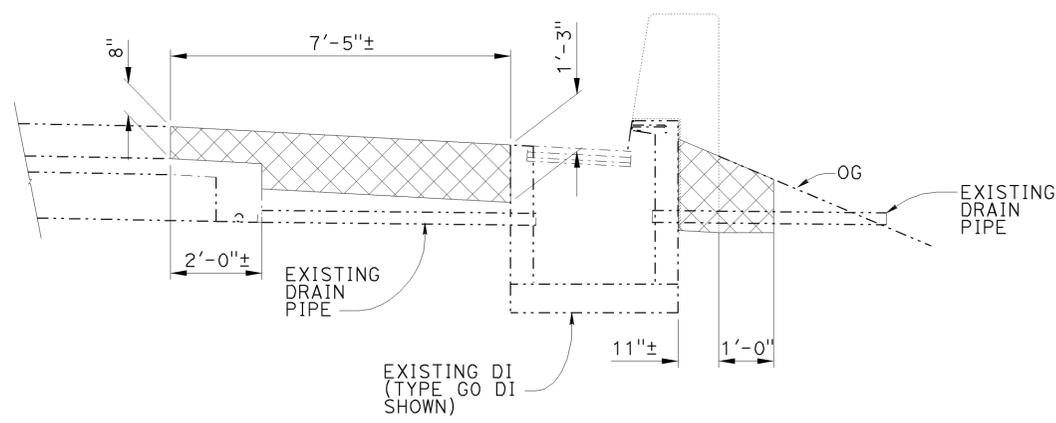
- EXISTING
- NEW CONSTRUCTION
- ▨ EXCAVATION
- ▧ BACKFILL



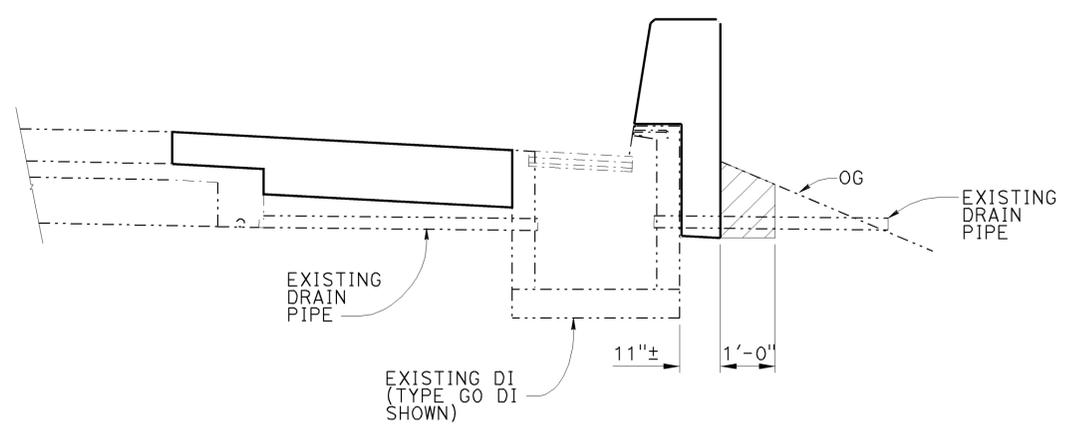
TYPICAL SECTION EXCAVATION
NO SCALE



TYPICAL SECTION BACKFILL
NO SCALE



SECTION B-B EXCAVATION
NO SCALE



SECTION B-B BACKFILL
NO SCALE

NOTES:

- Ensure no damage to existing edge drain outlet and vent pipes during excavation.

LOCATION 24

DESIGN BY JOEL MAGANA CHECKED PAUL WELLS DETAILS BY P C WELLS CHECKED JOEL MAGANA QUANTITIES BY N KANEPATHIPILLAI CHECKED P C WELLS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN SPECIAL DESIGN BRANCH	BRIDGE NO.	BARRIER SLAB WITH 736(MOD) RAIL EXCAVATION AND BACKFILL
			NA	
			VAR	

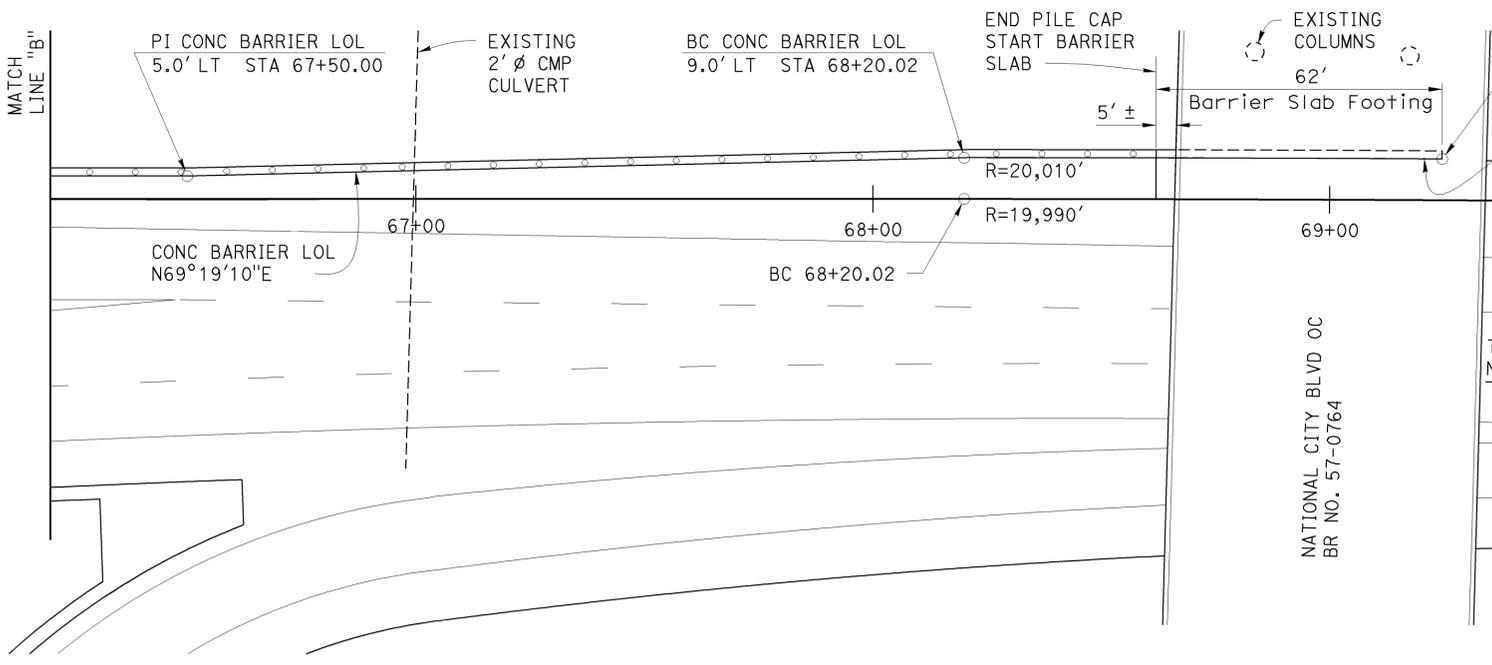
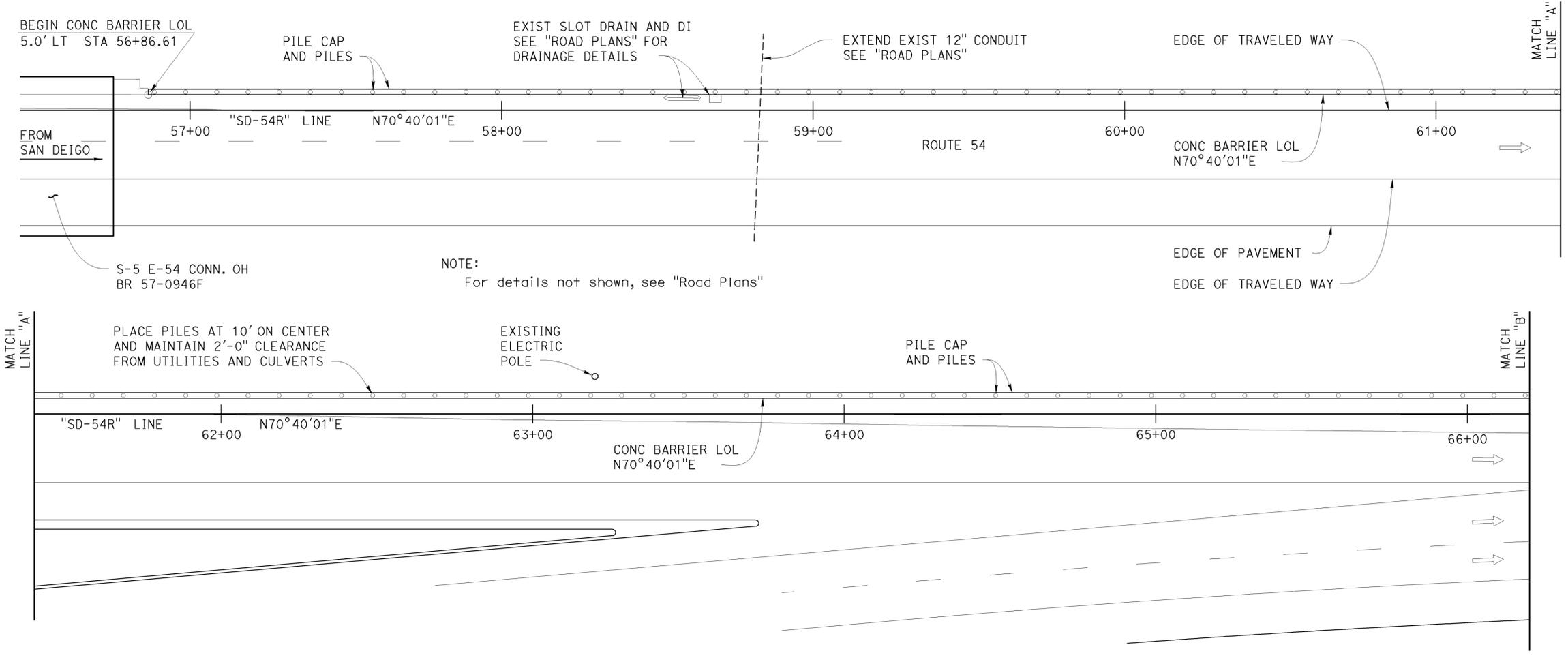
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11	SD	5, 8, 15, 54, 56, etc.	Var	251	255

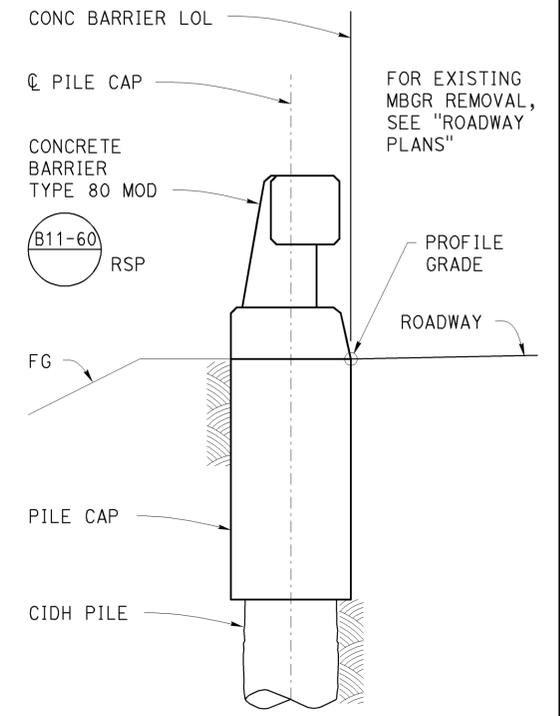
REGISTERED CIVIL ENGINEER
 No. C61373
 Exp. 6-30-2013
 CIVIL
 STATE OF CALIFORNIA

1-7-13
 DATE
 04-08-13
 PLANS APPROVAL DATE

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BARRIER AND PILE LAYOUT
1" = 20'



PILE CAP SECTION STA. 56+86.61 - 68+62 ±
BARRIER SLAB SECTION STA. 68+62 ± - 69+24.59

BARRIER TYPICAL SECTION
3/4" = 1'-0"

QUANTITIES

STRUCTURE EXCAVATION	636	CY
STRUCTURE BACKFILL	322	CY
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	2,596	LF
STRUCTURAL CONCRETE (PILE CAP)	267	CY
STRUCTURAL CONCRETE, BARRIER SLAB	48	CY
BAR REINFORCING STEEL	43,035	LB
CONCRETE BARRIER (TYPE 80 MODIFIED)	1,238	LF

INDEX TO PLANS

1. GENERAL PLAN
2. TYPE 80 MOD DETAILS NO. 1
3. TYPE 80 MOD DETAILS NO. 2
4. MISCELLANEOUS BARRIER DETAILS
5. BARRIER SLAB DETAILS

STANDARD PLANS 2010 EDITION

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
RSP B11-60	CONCRETE BARRIER TYPE 80 (SHEET 1 OF 2)

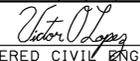
LOCATION 25

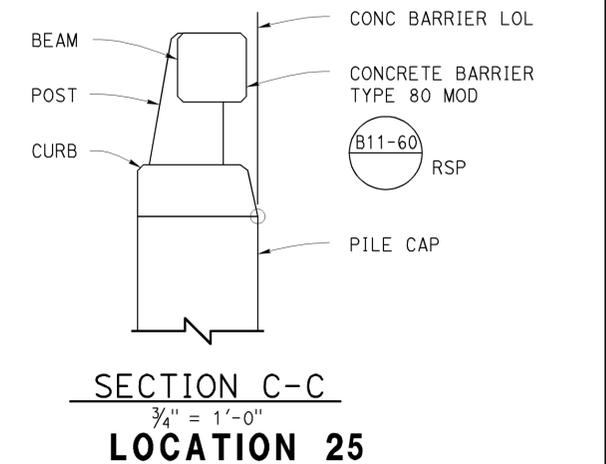
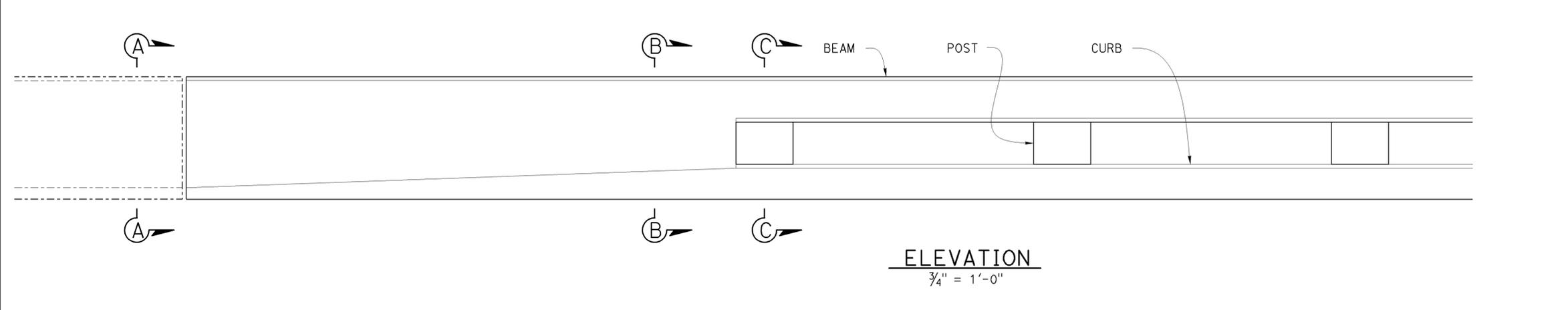
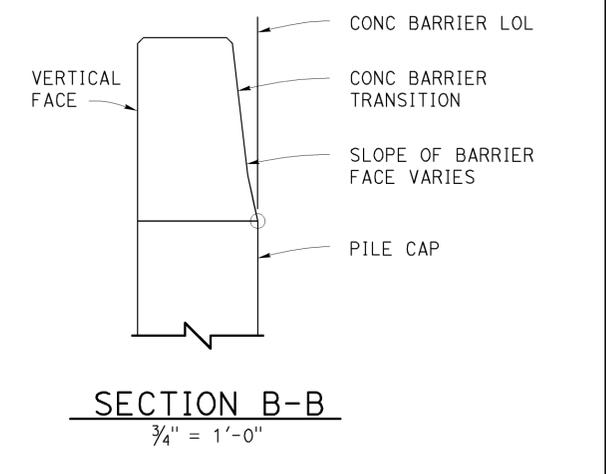
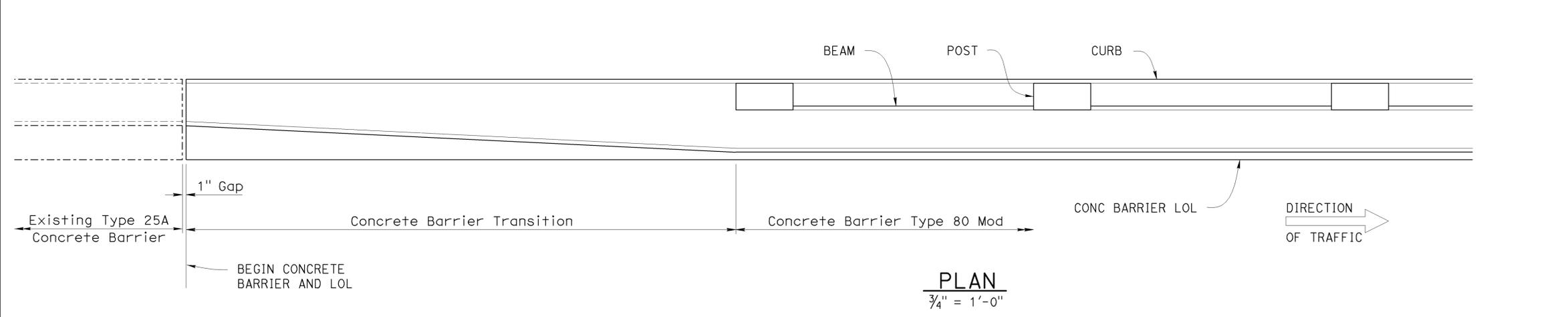
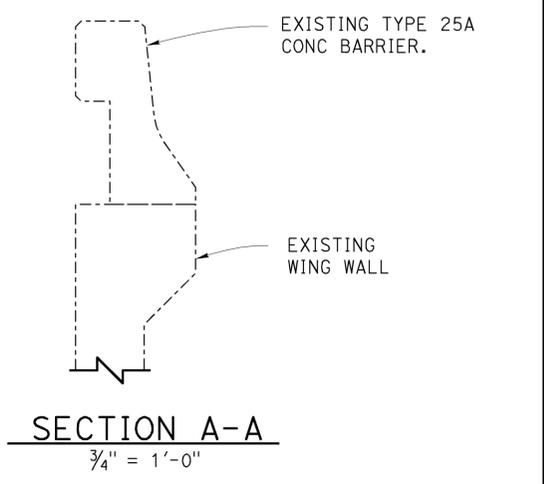
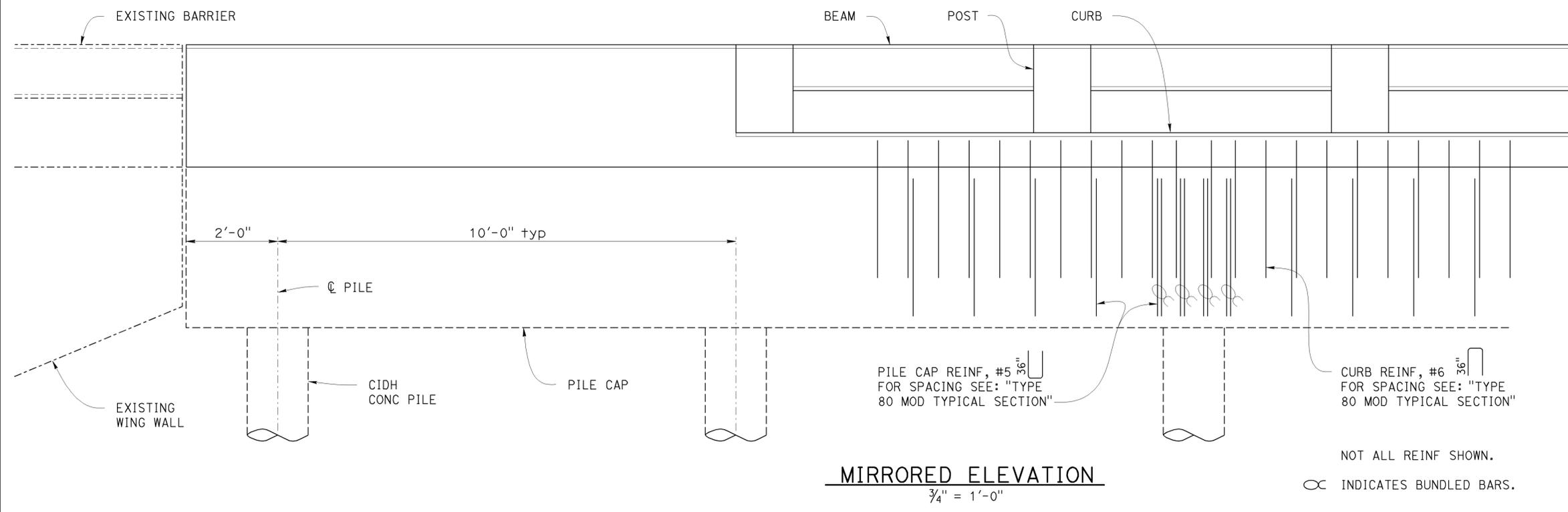
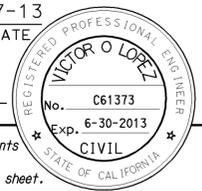
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

James Sagar DESIGN ENGINEER	DESIGN BY V. Lopez	CHECKED L. Warren	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/ "LOW-BOY"; PERMIT DESIGN VEHICLE
	DETAILS BY T. Mason	CHECKED L. Warren	LAYOUT BY T. Mason	CHECKED L. Warren
	QUANTITIES BY V. Lopez	CHECKED J. Magana	SPECIFICATIONS BY K. Ellingson	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 SPECIAL DESIGN BRANCH
 BRIDGE NO. N/A
 POST MILE R0.16-R0.42

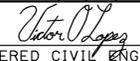
CONCRETE BARRIER TYPE 80 (MOD)
GENERAL PLAN

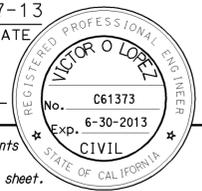
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11	SD	5, 8, 15, 54, 56, etc.	Var	252	255
 REGISTERED CIVIL ENGINEER			DATE	1-7-13	
PLANS APPROVAL DATE			04-08-13		
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STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN BY V. Lopez	CHECKED L. Warren	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. N/A	CONCRETE BARRIER TYPE 80 (MOD) TYPE 80 MOD DETAILS NO. 1
	DETAILS BY T. Mason	CHECKED L. Warren		SPECIAL DESIGN BRANCH	POST MILE R0.16-R0.42	
	QUANTITIES BY V. Lopez	CHECKED J. Magana		PROJECT NUMBER & PHASE: 1100000531	CONTRACT NO.: 11-401401	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES SHEET 2 OF 5

USERNAME => s124393 DATE PLOTTED => 10-JAN-2013 TIME PLOTTED => 08:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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 REGISTERED CIVIL ENGINEER			1-7-13	DATE	
PLANS APPROVAL DATE			04-08-13	DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



REINFORCED CONCRETE DATA

Design:
 AASHTO LRFD Bridge Design Specifications,
 4th Edition with California Amendments.

F_+ : 54 kips on barrier

EQE: $k_h = 0.2$
 $k_v = 0.0$

PILE CAP AND BARRIER SLAB CONCRETE:

$f_y = 60,000$ psi
 $f'_c = 3,600$ psi
 $n = 8$

PILE CONCRETE:

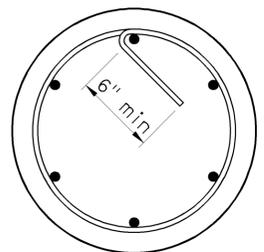
$f_y = 60,000$ psi
 $f'_c = 4,000$ psi

DESIGN CAPACITY:

COMPRESSION
 140 kip (Service state)
 280 kip (Nominal axial structural resistance)

TENSION

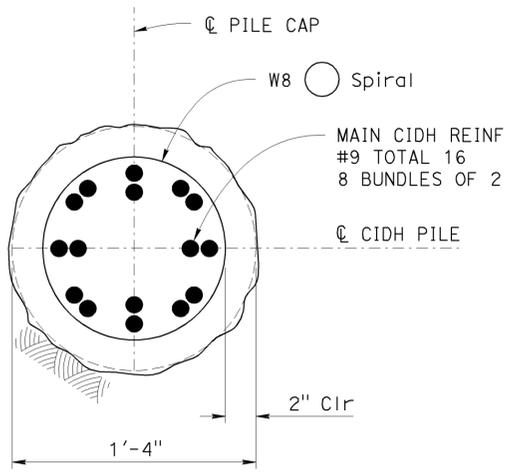
56 kip (Service state)
 140 kip (Nominal axial structural resistance)



SPIRAL TERMINATIONS AND SPLICES SHALL HAVE 80 BAR DIAMETER LAP SPLICE AND 6" LONG 135° HOOK

SPIRAL ANCHOR 135° HOOK DETAIL

no scale



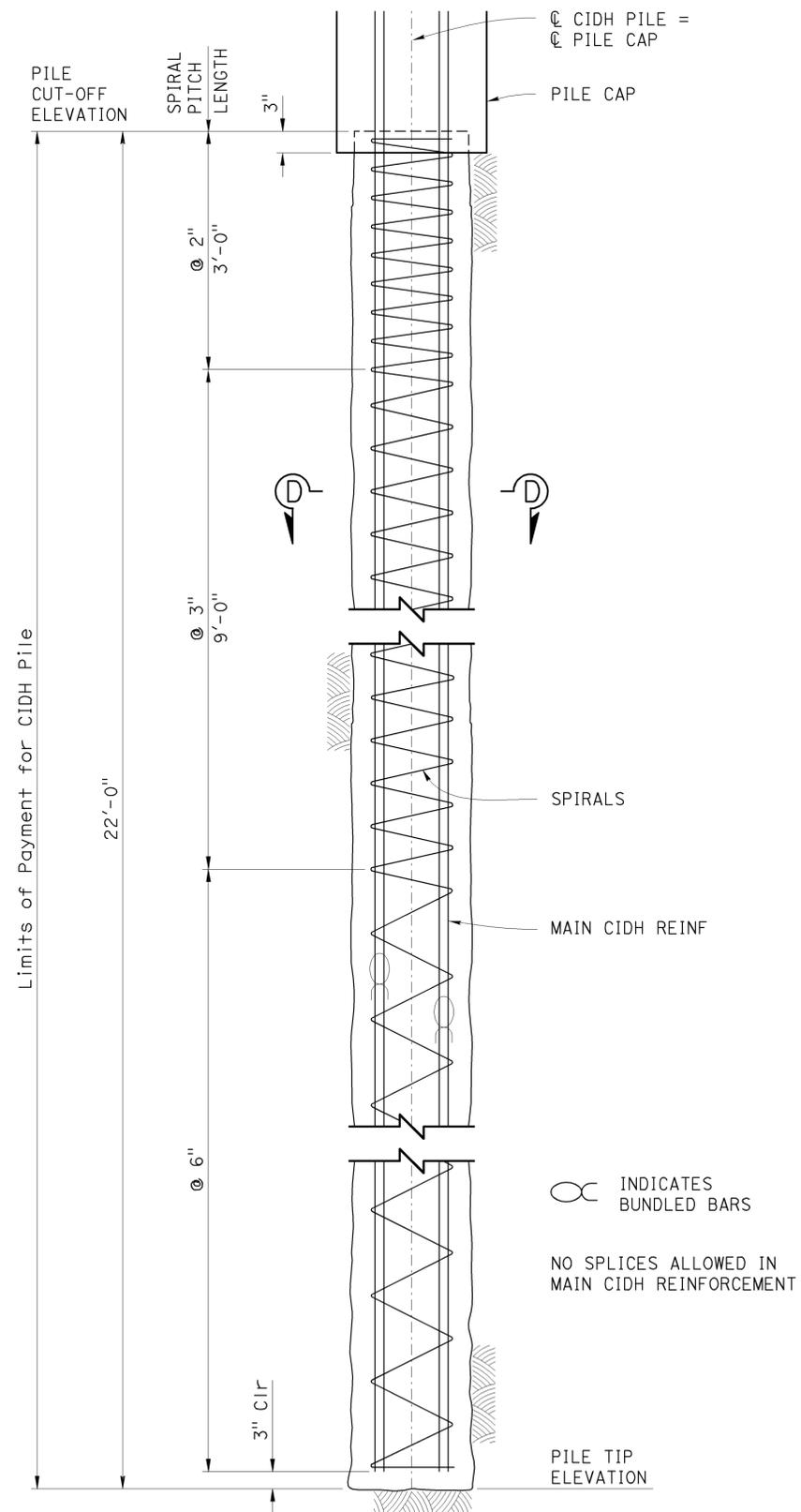
CIDH PILE SECTION D-D

2" = 1'-0"

SOIL PARAMETERS

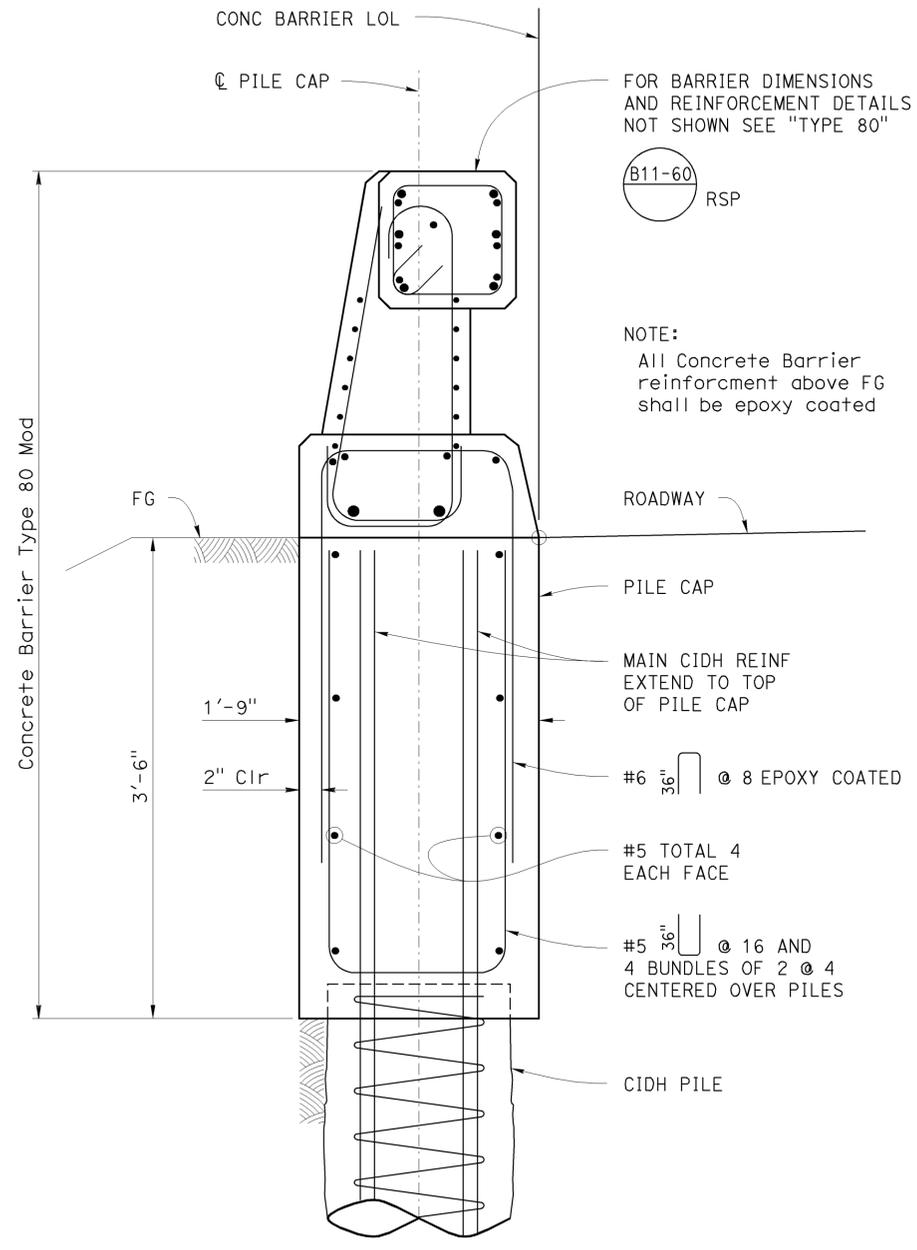
Case 2:
 Level ground ($\pm 10\%$) on traffic side of barrier and sloping ground on opposite side.

Angle of internal friction, $\phi = 30^\circ$



CIDH PILE ELEVATION

no scale



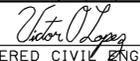
PILE CAP SECTION STA. 56+86.61 - 68+62 ±

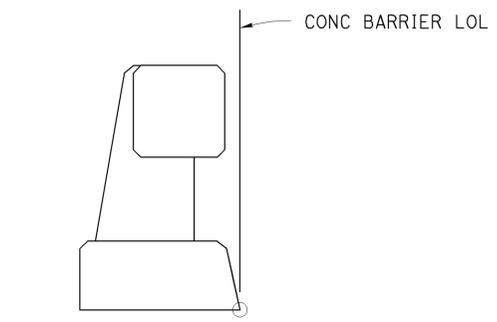
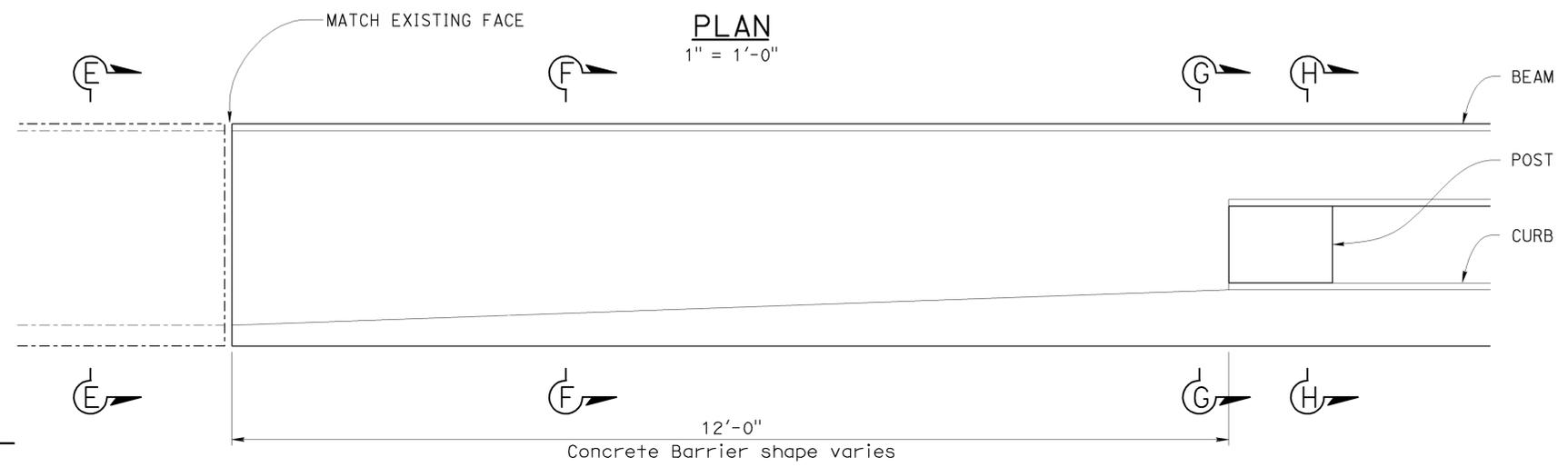
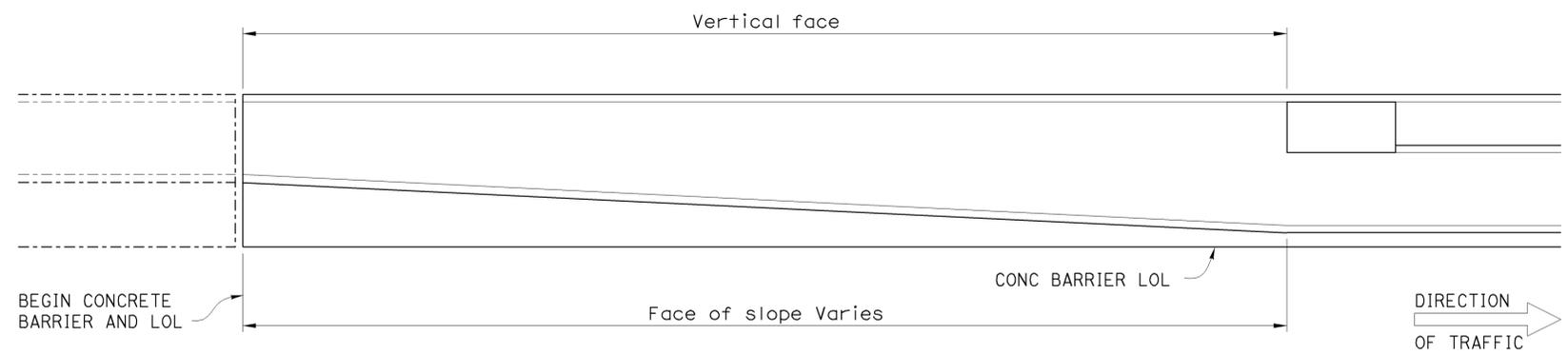
TYPE 80 MOD TYPICAL SECTION

1 1/2" = 1'-0"

LOCATION 25

DESIGN BY V. Lopez DETAILS BY T. Mason QUANTITIES BY V. Lopez	CHECKED L. Warren CHECKED L. Warren CHECKED J. Magana	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. N/A POST MILE R0.16-R0.42	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN SPECIAL DESIGN BRANCH	CONCRETE BARRIER TYPE 80 (MOD) TYPE 80 MOD DETAILS NO. 2	REVISION DATES	SHEET OF
						10-30-12	3 5
						DISREGARD PRINTS BEARING EARLIER REVISION DATES	

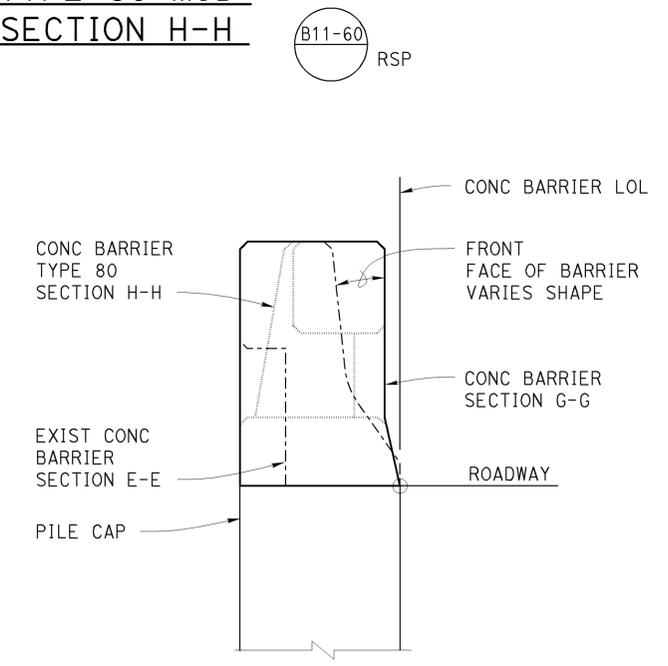
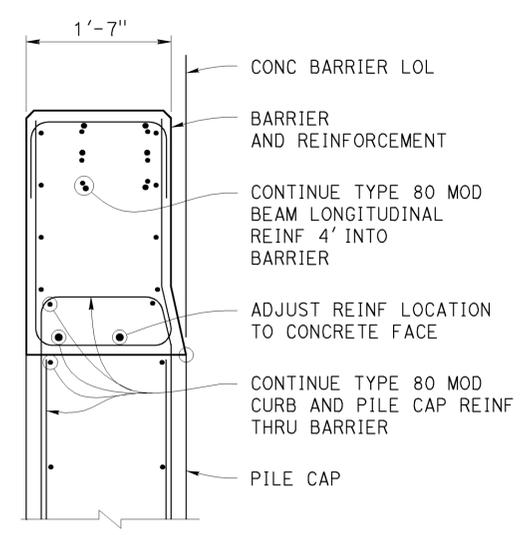
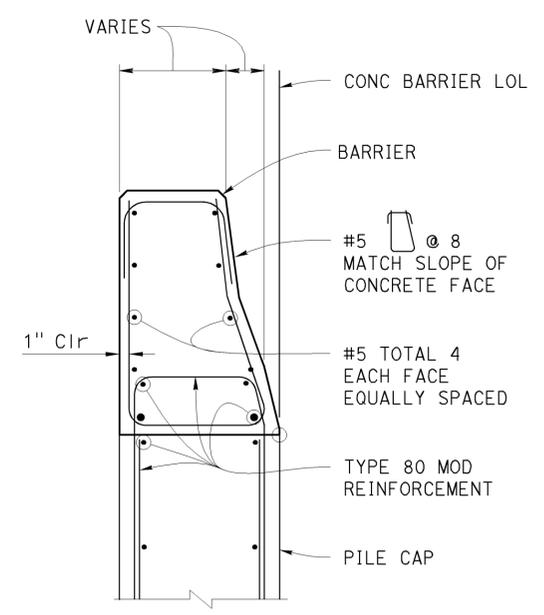
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11	SD	5, 8, 15, 54, 56, etc.	Var	254	255
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PLANS APPROVAL DATE			04-08-13		
No. C61373 Exp. 6-30-2013 CIVIL					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



EXIST TYPE 25A
CONC BARRIER
SECTION E-E

ELEVATION
1" = 1'-0"

CONC BARRIER
TYPE 80 MOD
SECTION H-H



BARRIER SECTION F-F
1" = 1'-0"

BARRIER SECTION G-G
1" = 1'-0"

CHANGE IN CONCRETE BARRIER SHAPE
LOCATION 25
1" = 1'-0"

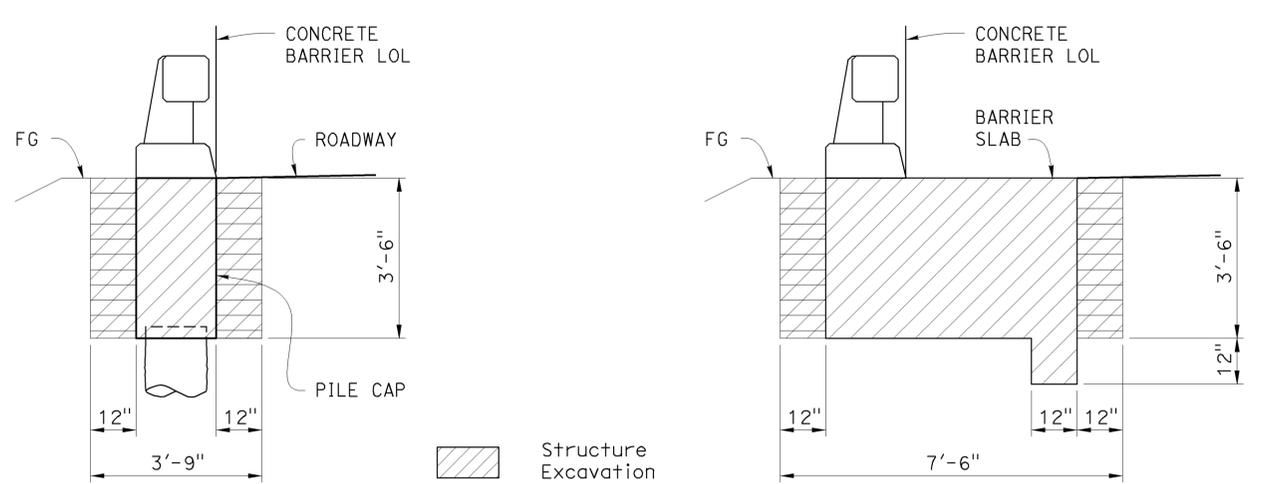
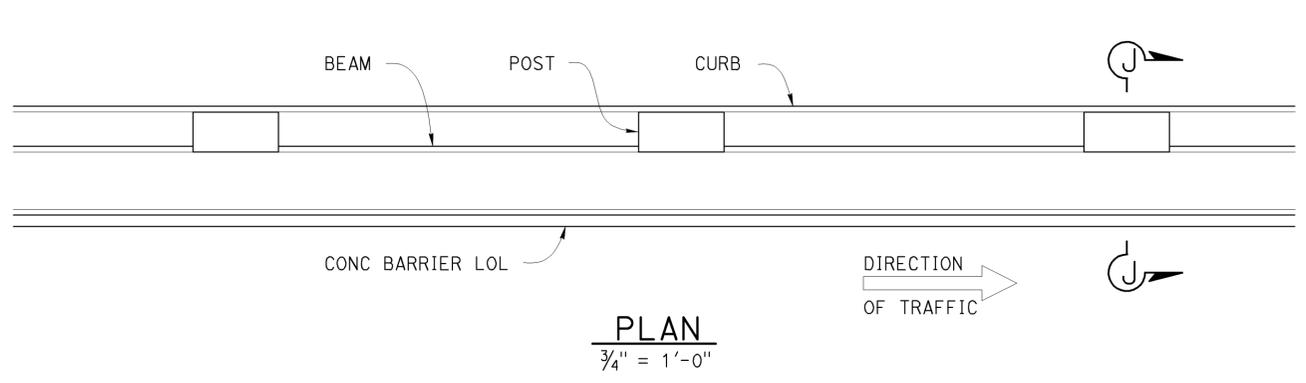
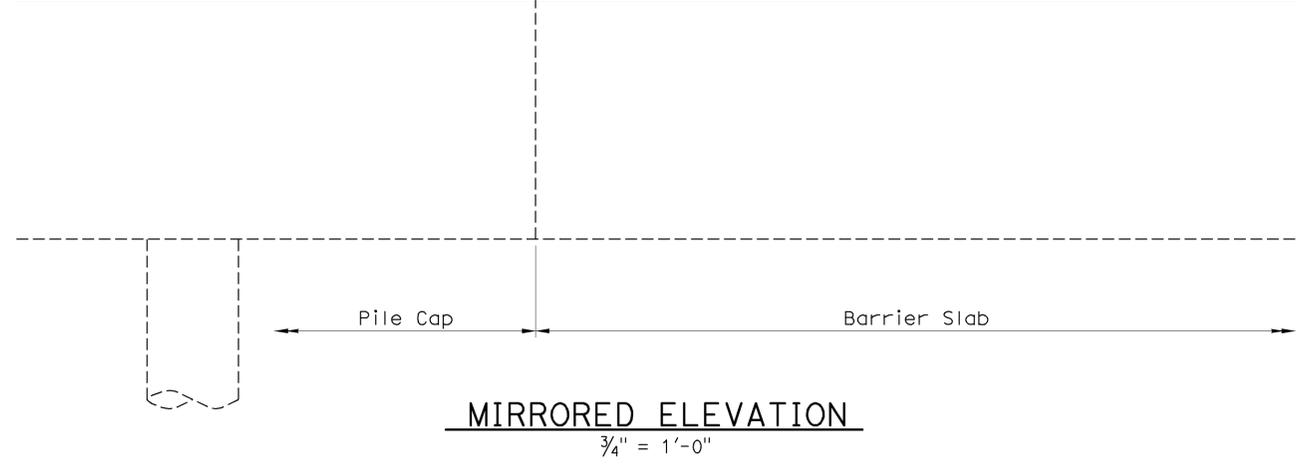
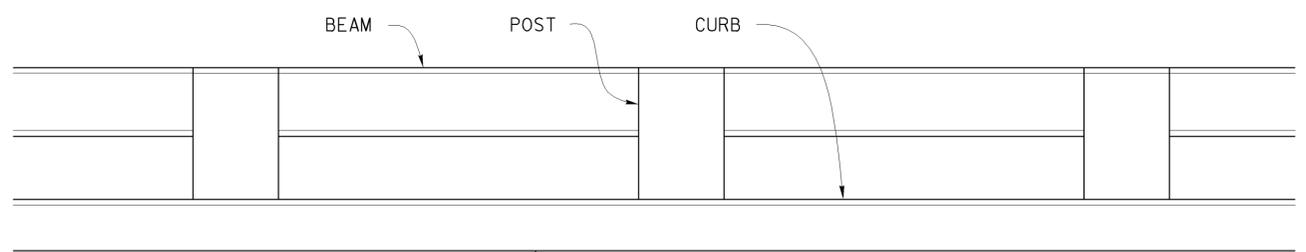
DESIGN	BY V. Lopez	CHECKED L. Warren
DETAILS	BY T. Mason	CHECKED L. Warren
QUANTITIES	BY V. Lopez	CHECKED J. Magana

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

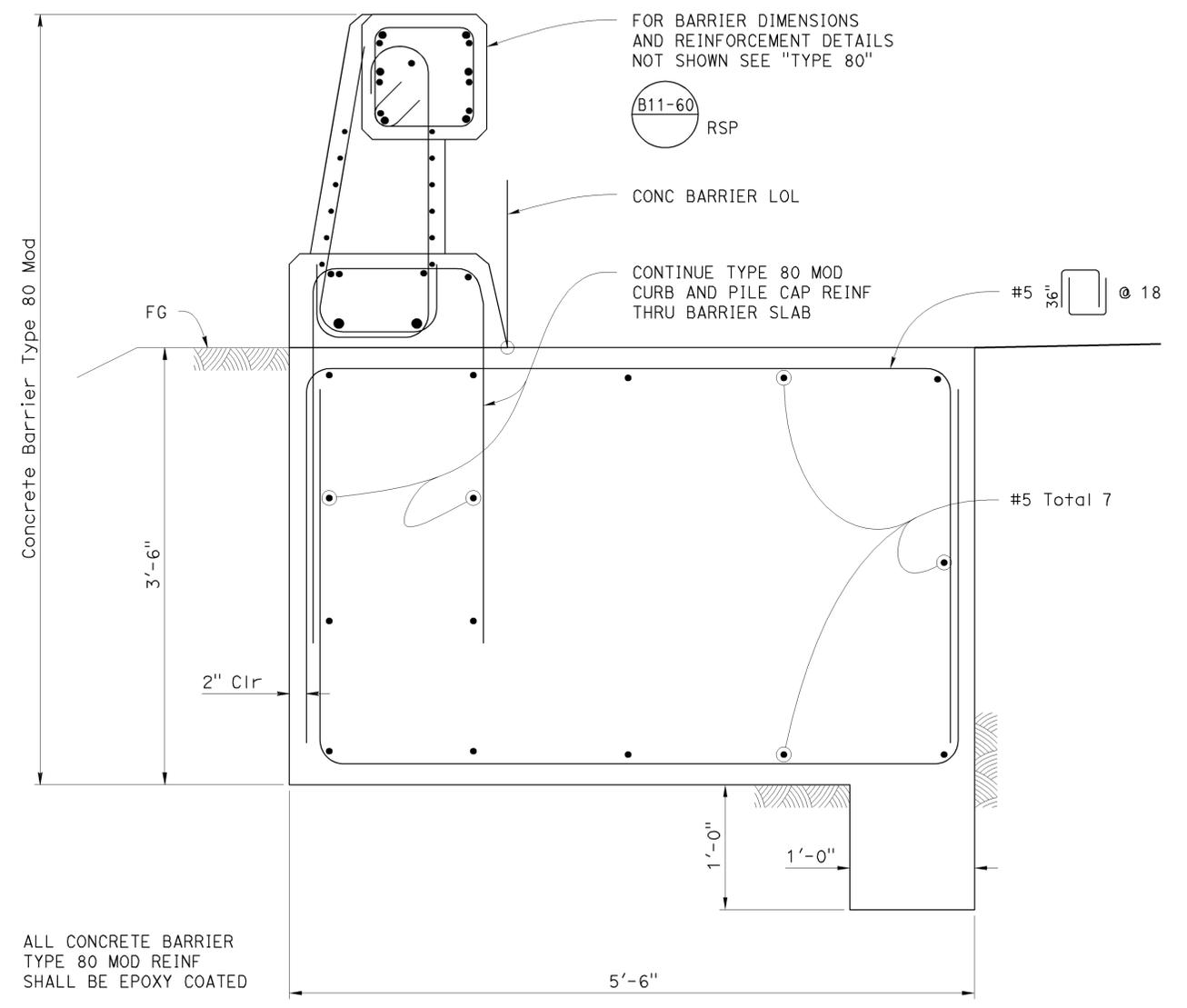
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGN BRANCH

BRIDGE NO. N/A
POST MILE R0.16-R0.42
**CONCRETE BARRIER TYPE 80 (MOD)
MISCELLANEOUS BARRIER DETAILS**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5, 8, 15, 54, 56, etc.	Var	255	255
 REGISTERED CIVIL ENGINEER			DATE	1-7-13	
PLANS APPROVAL DATE			04-08-13		
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LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
1/2" = 1'-0"



BARRIER SLAB SECTION STA. 68+62 ± - 69+24.59

BARRIER SLAB SECTION J-J
1 1/2" = 1'-0" **LOCATION 25**

DESIGN	BY V. Lopez	CHECKED L. Warren
DETAILS	BY T. Mason	CHECKED L. Warren
QUANTITIES	BY V. Lopez	CHECKED J. Magana

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGN BRANCH

CONCRETE BARRIER TYPE 80 (MOD)
BARRIER SLAB DETAILS