Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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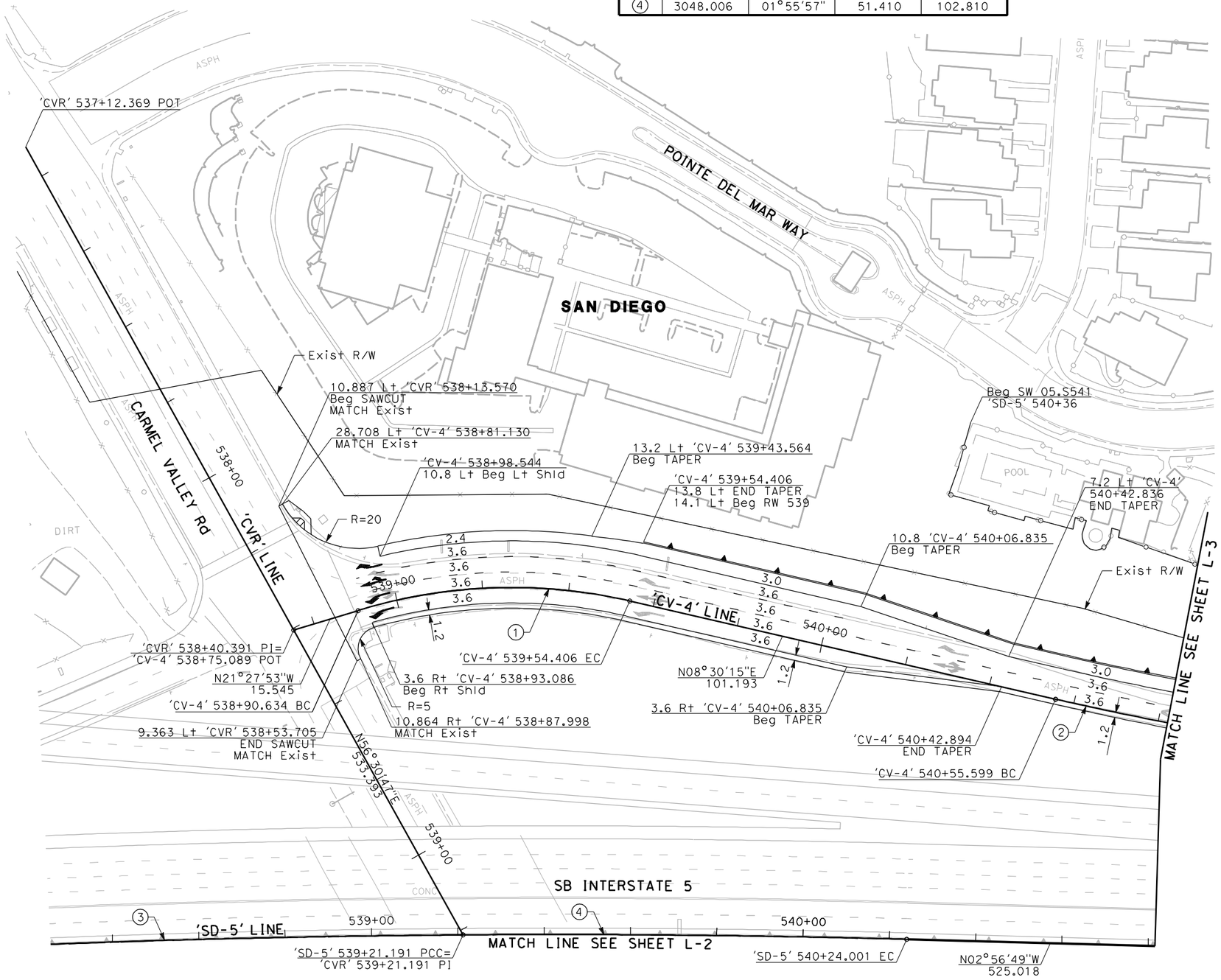
5675 Ruffin Road
Suite 250
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	121.919	29°58'10"	32.633	63.772
2	700.000	07°12'52"	44.130	88.142
3	3048.006	02°16'05"	60.336	120.657
4	3048.006	01°55'57"	51.410	102.810



LEGEND

- ○ CURVE DATA NUMBER
- △ MBGR (SEE SUMMARY OF QUANTITY SHEETS FOR DETAILS)
- □ STRUCTURAL SECTION (SEE TYPICAL SECTIONS FOR STRUCTURAL SECTION TYPES)
- DETENTION BASIN

ABBREVIATIONS

CHP	CALIFORNIA HIGHWAY PATROL
C	CUT
F	FILL
P†	POINT
RP†	RADIUS POINT

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-1

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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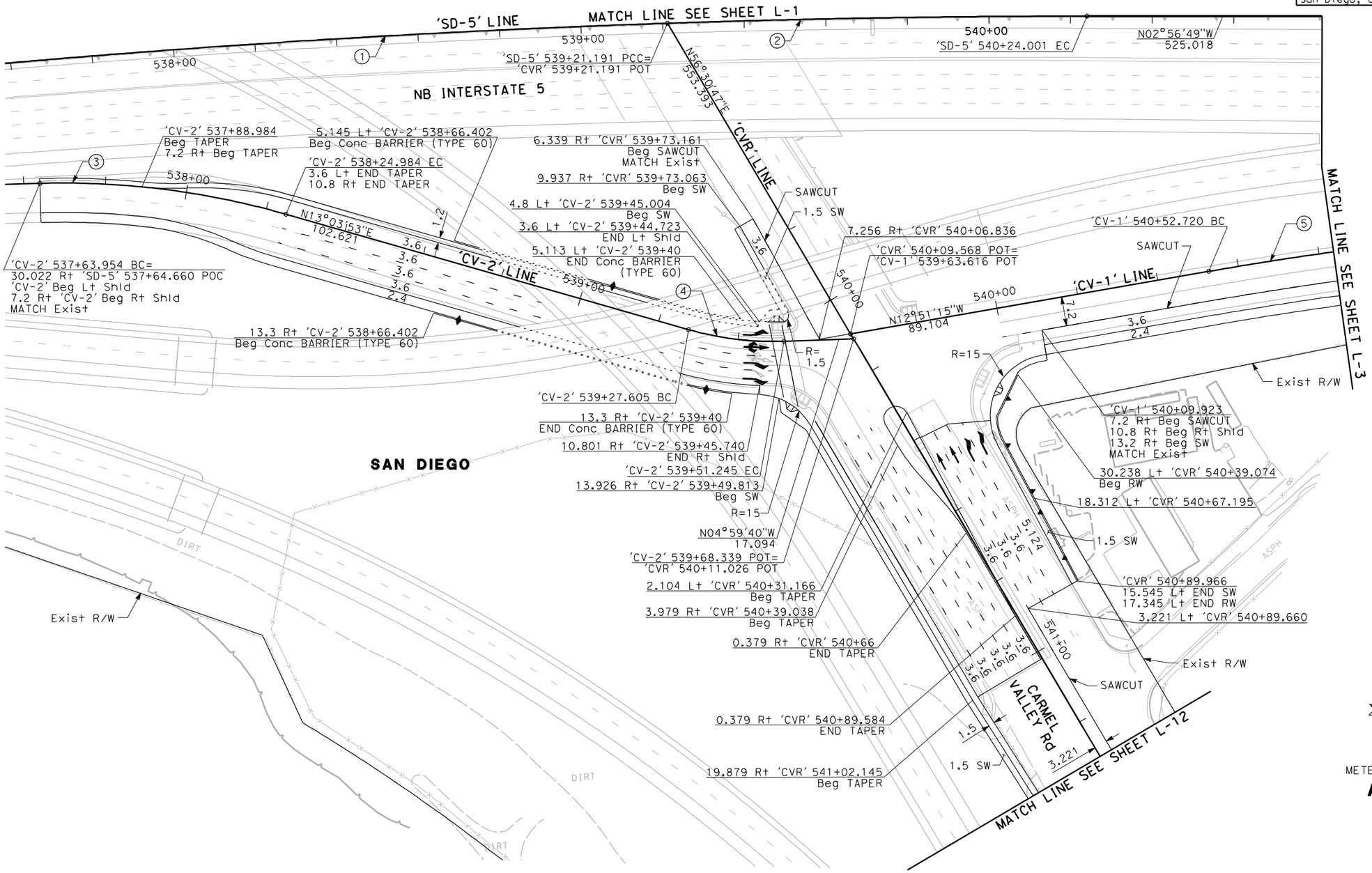
Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	3048.006	02°16'05"	60.336	120.657
2	3048.006	01°55'57"	51.410	102.810
3	198.125	17°38'58"	30.759	61.030
4	75.000	18°03'34"	11.919	23.640
5	849.988	06°39'10"	49.402	98.693



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3
LAYOUT
SCALE 1:1000

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 1:12:09 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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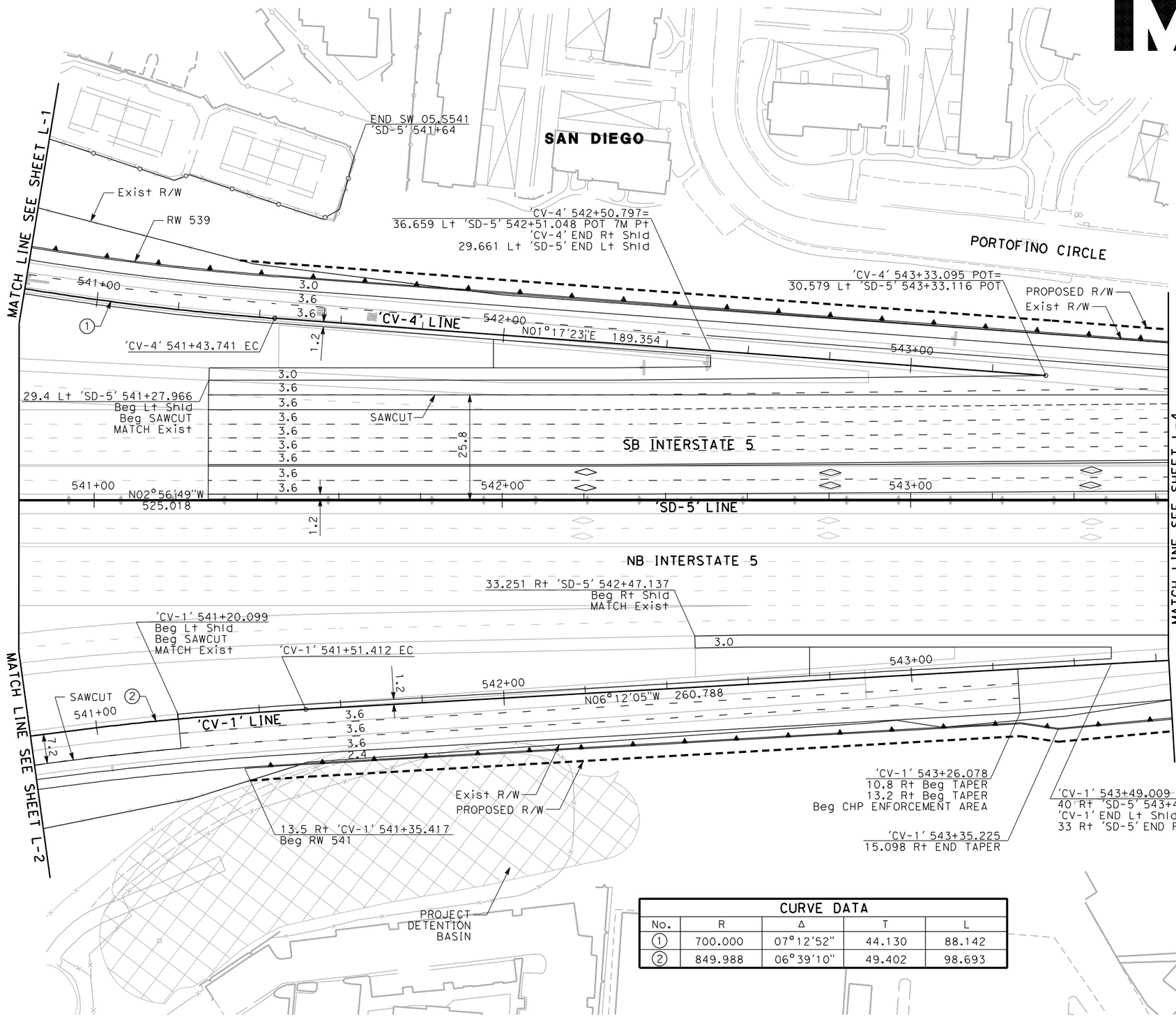
San Diego, CA 92123

Caltrans Metric



CURVE DATA				
No.	R	Δ	T	L
1	700.000	07°12'52"	44.130	88.142
2	849.988	06°39'10"	49.402	98.693

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-3

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 TIME PLOTTED => 1:12:11 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	3048.006	05°29'42"	146.273	292.322
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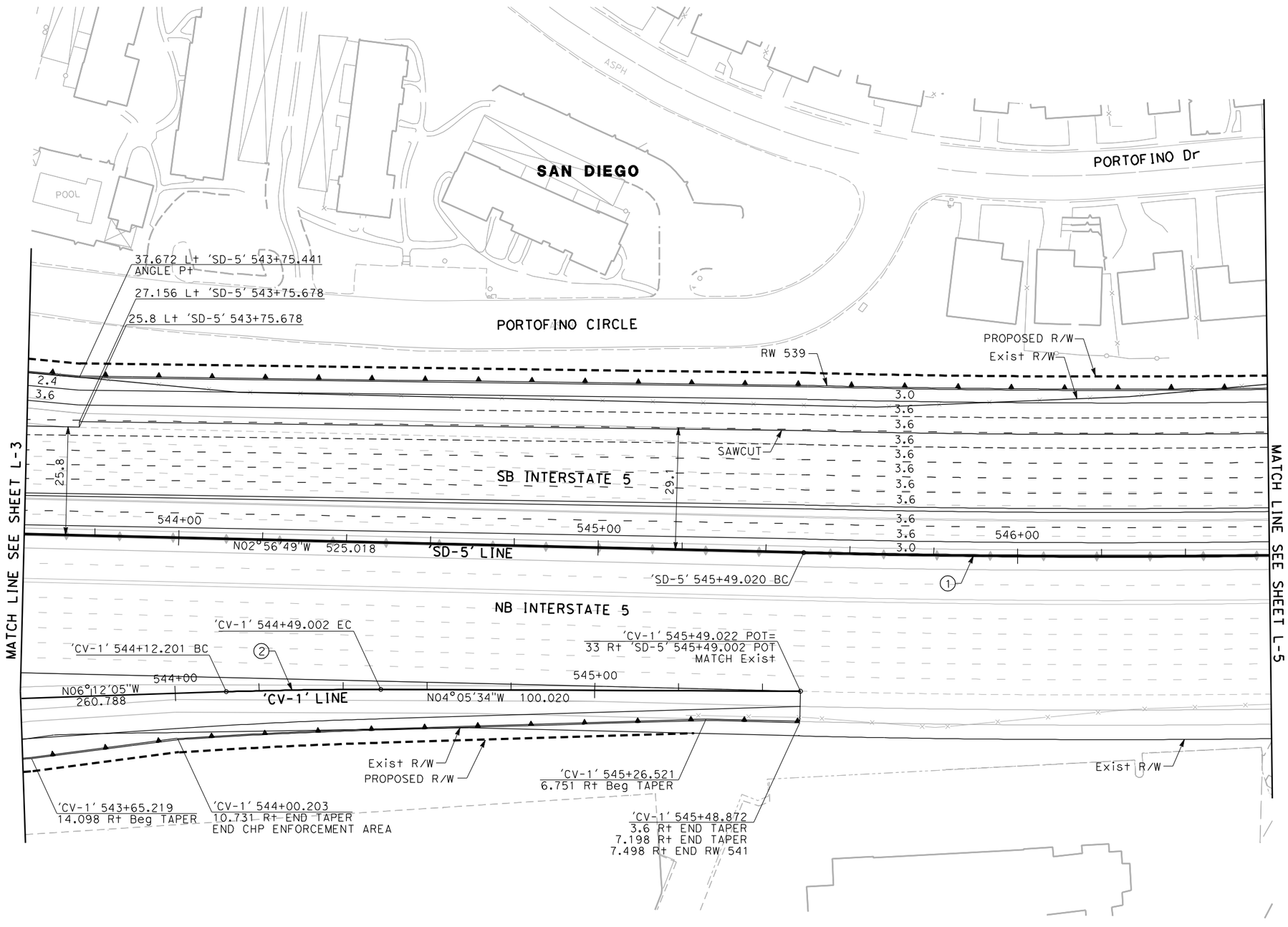

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-4

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 1:12:12 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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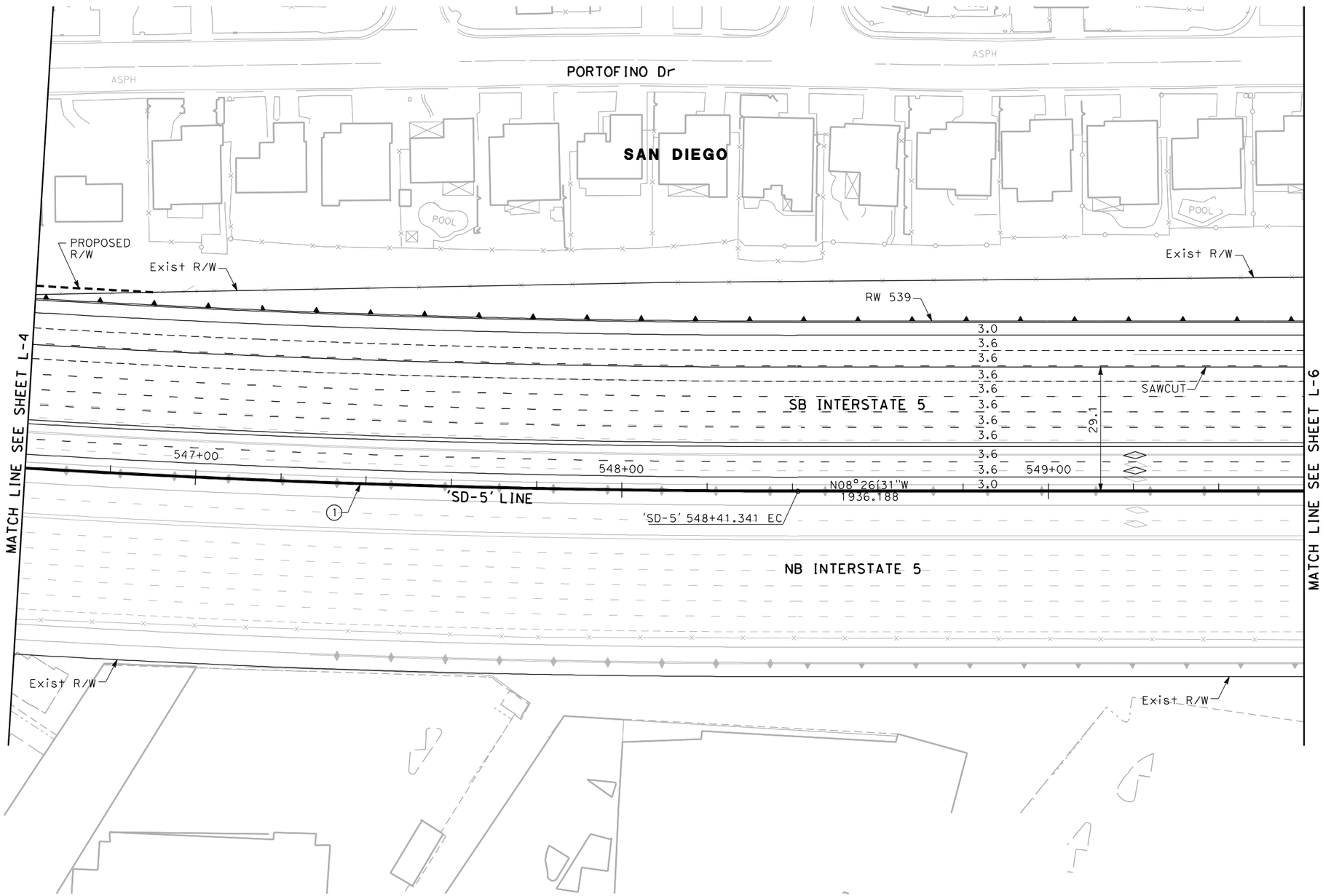
Dokken Engineering
5675 Ruffin Road
Suite 250
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	3048.006	05°29'42"	146.273	292.322



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-5

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CALCULATED-DESIGNED BY | CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 TIME PLOTTED => 11:12:14 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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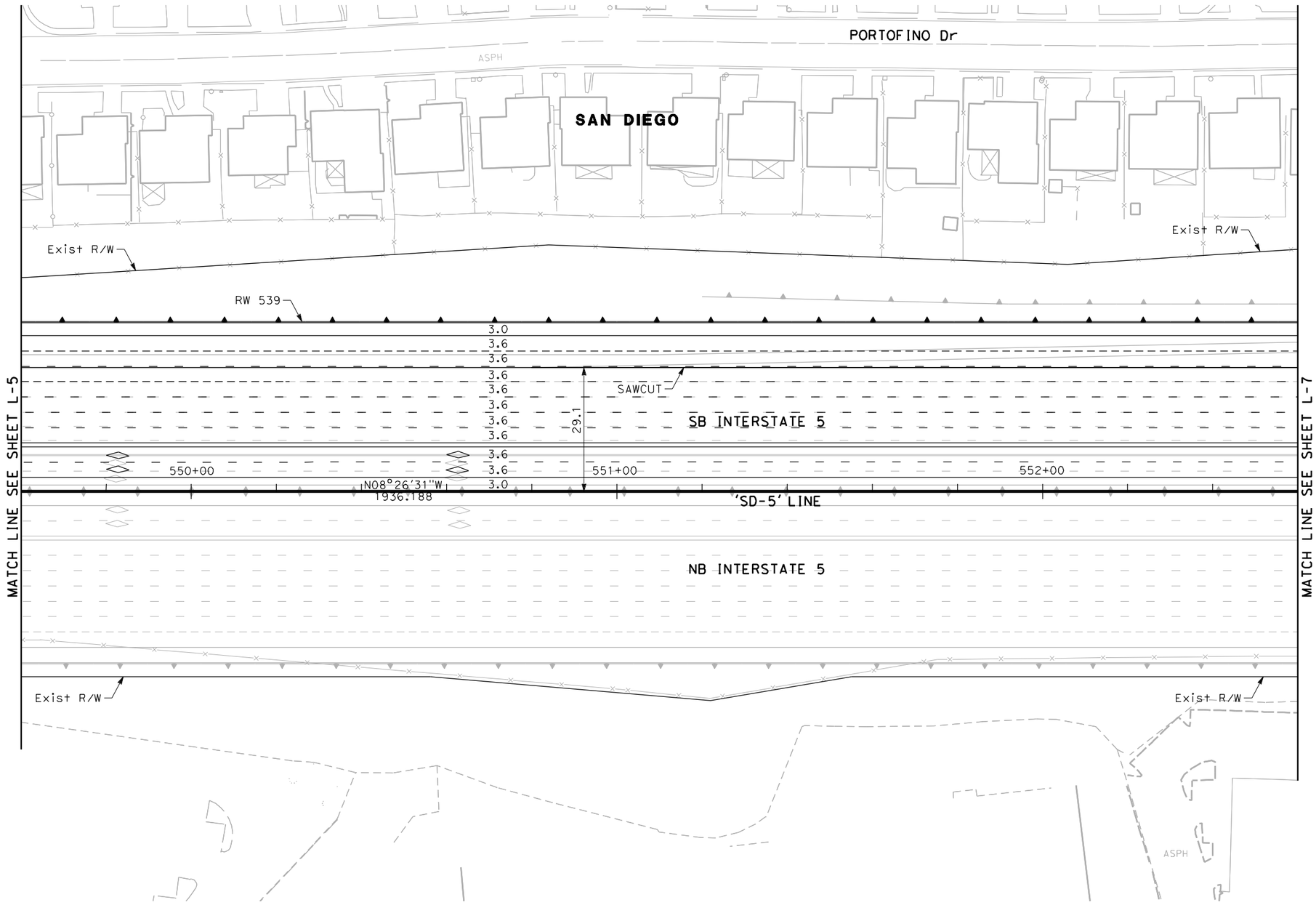
San Diego, CA 92123



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3
LAYOUT
SCALE 1:1000

L-6

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 1:12:15 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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Dokken Engineering
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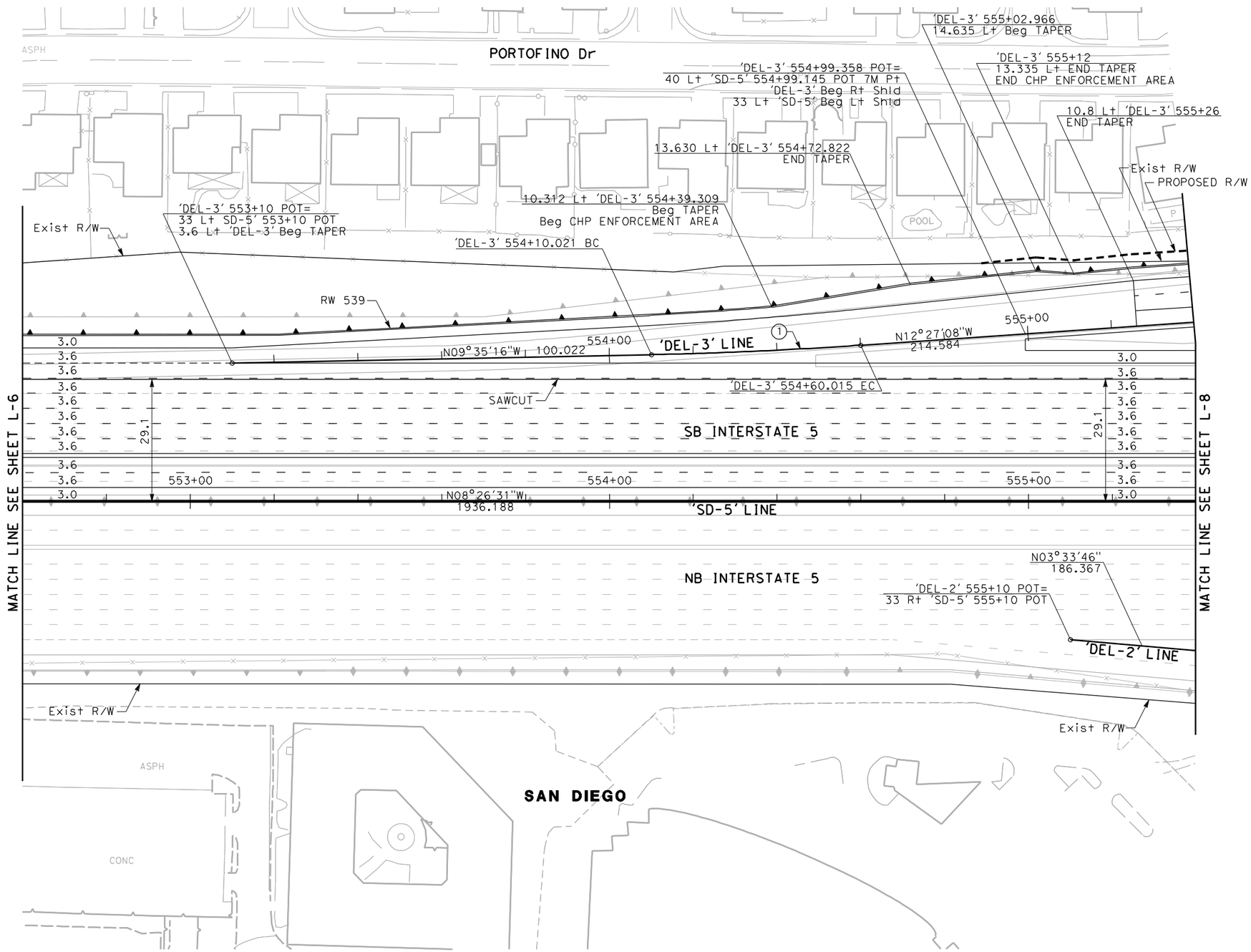
Suite 250
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	1000.000	02°51'52"	25.002	49.994



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 1:12:16 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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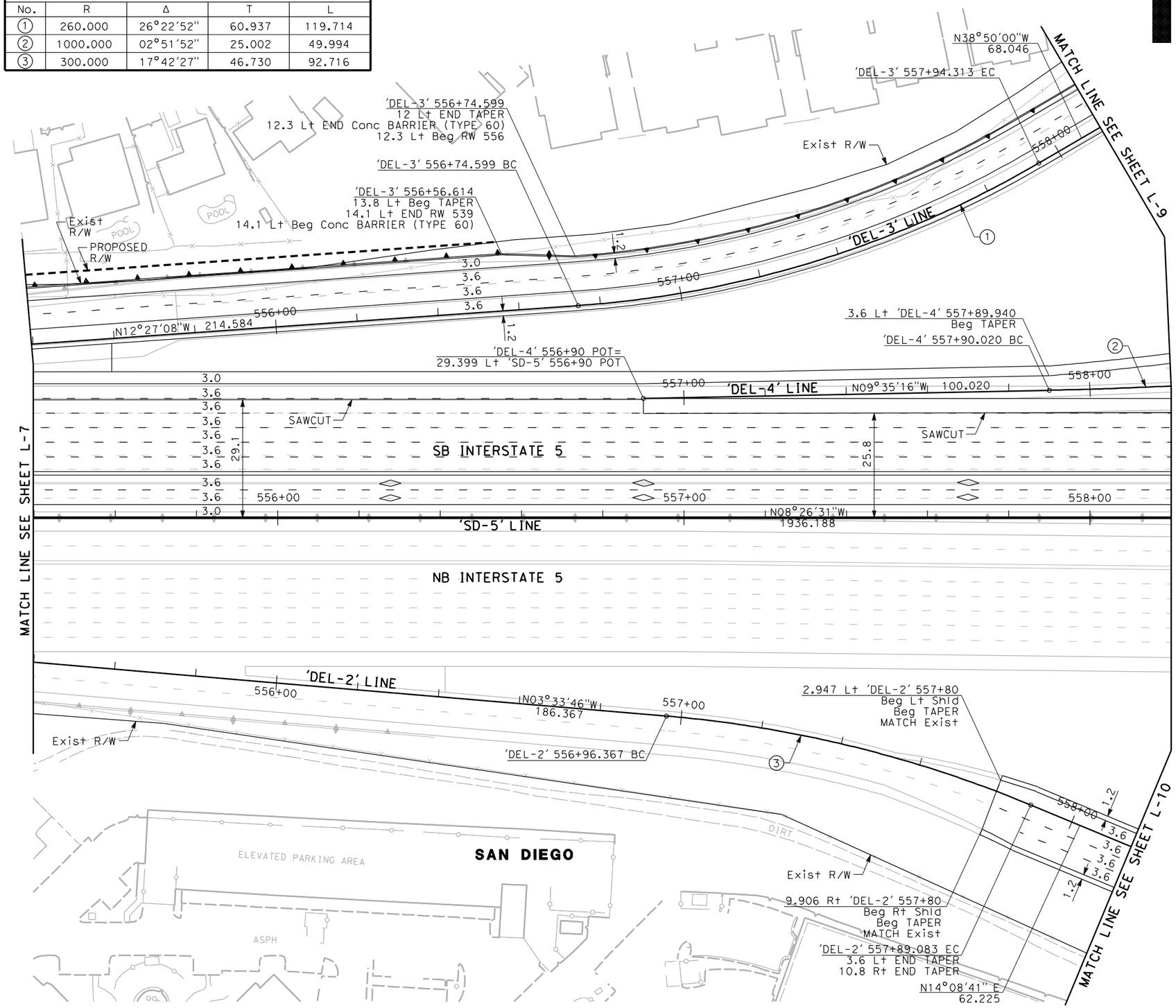
Suite 250
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	260.000	26°22′52″	60.937	119.714
2	1000.000	02°51′52″	25.002	49.994
3	300.000	17°42′27″	46.730	92.716



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-8

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 3/30/2012
TIME PLOTTED => 1:12:18 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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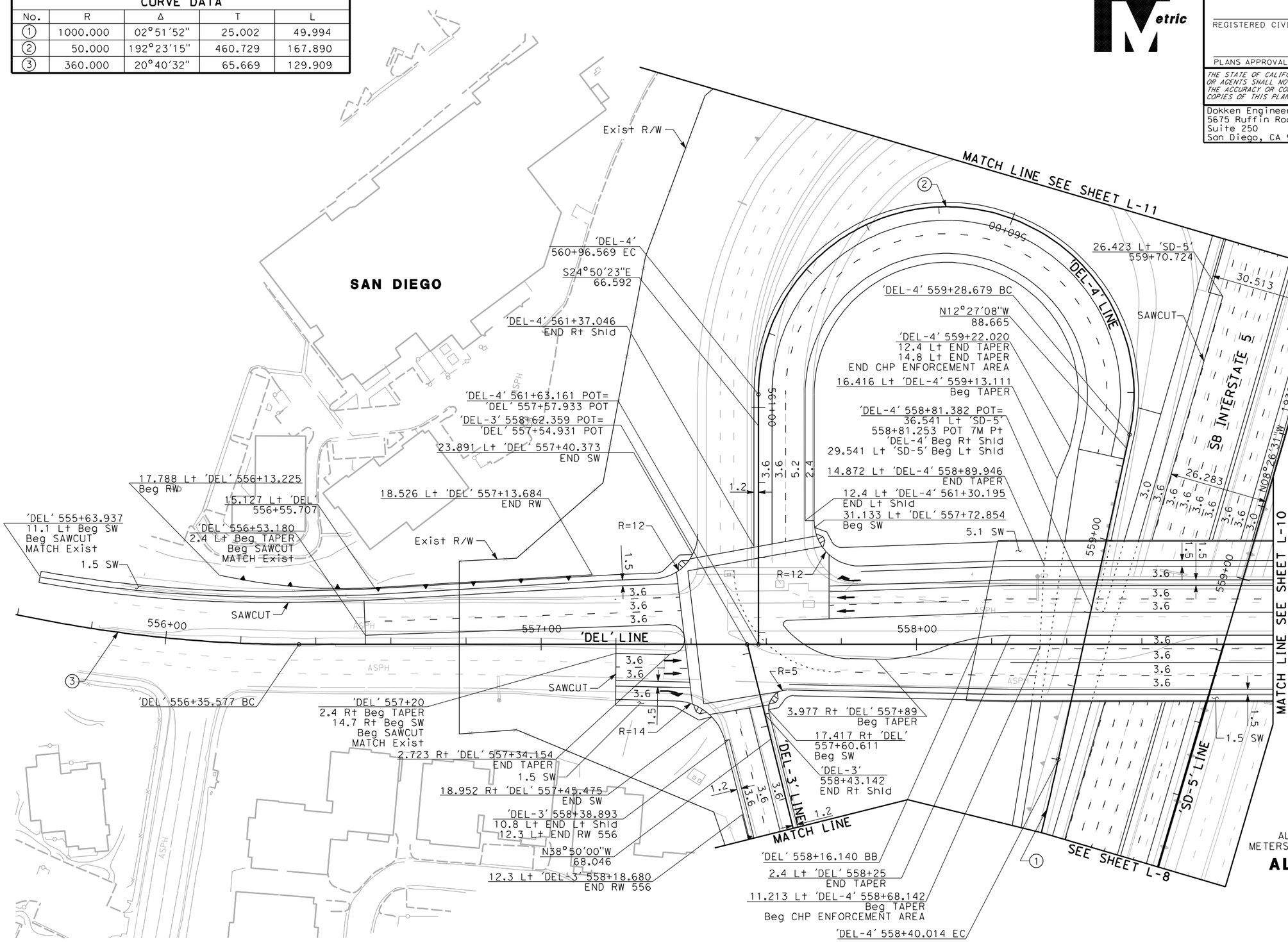
Suite 250
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	1000.000	02°51'52"	25.002	49.994
2	50.000	192°23'15"	460.729	167.890
3	360.000	20°40'32"	65.669	129.909



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-9

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | SUPERVISOR | CONSULTANT FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 1:12:19 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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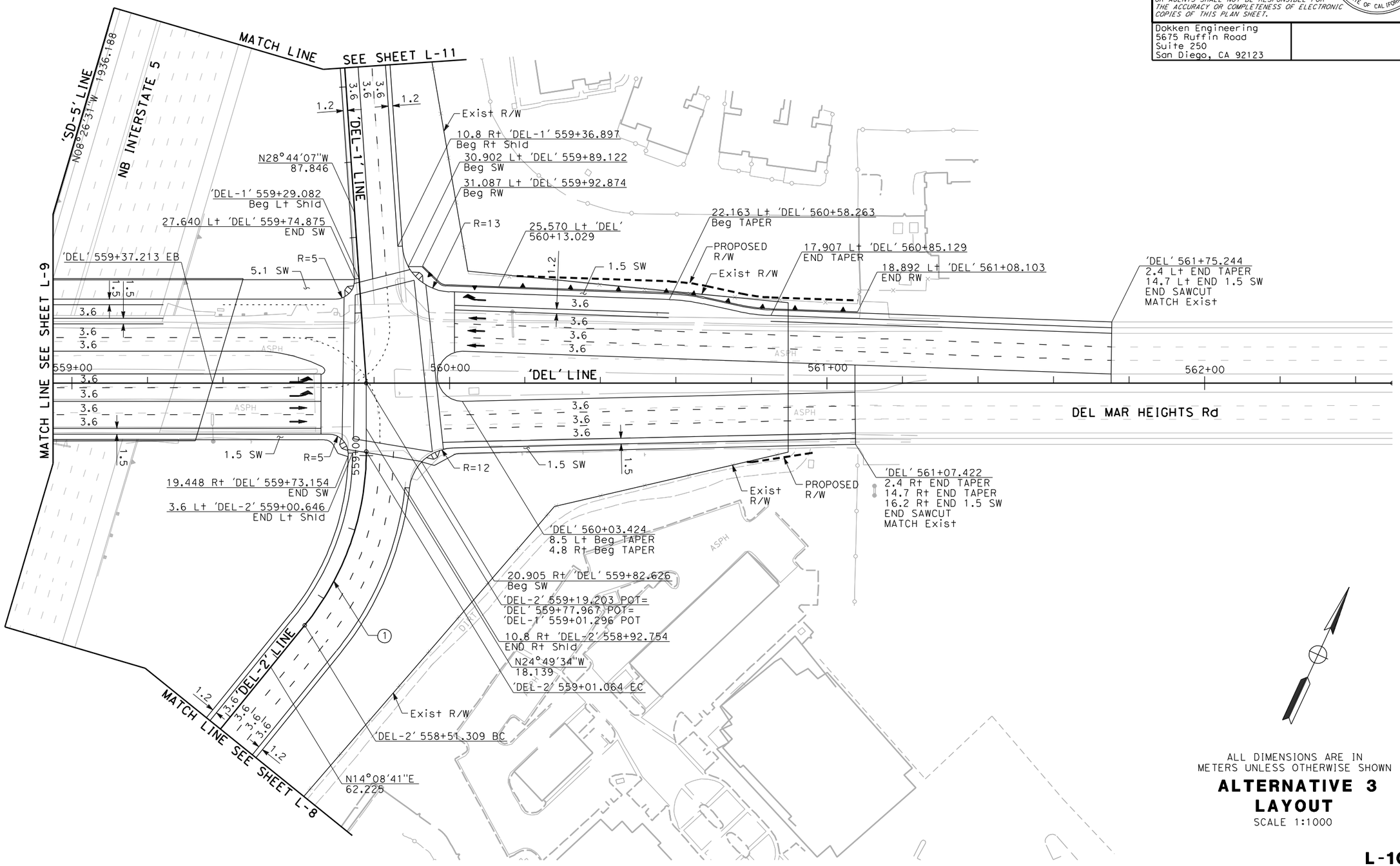
Suite 250
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	73.153	38°58'14"	25.884	49.756



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 11:12:20 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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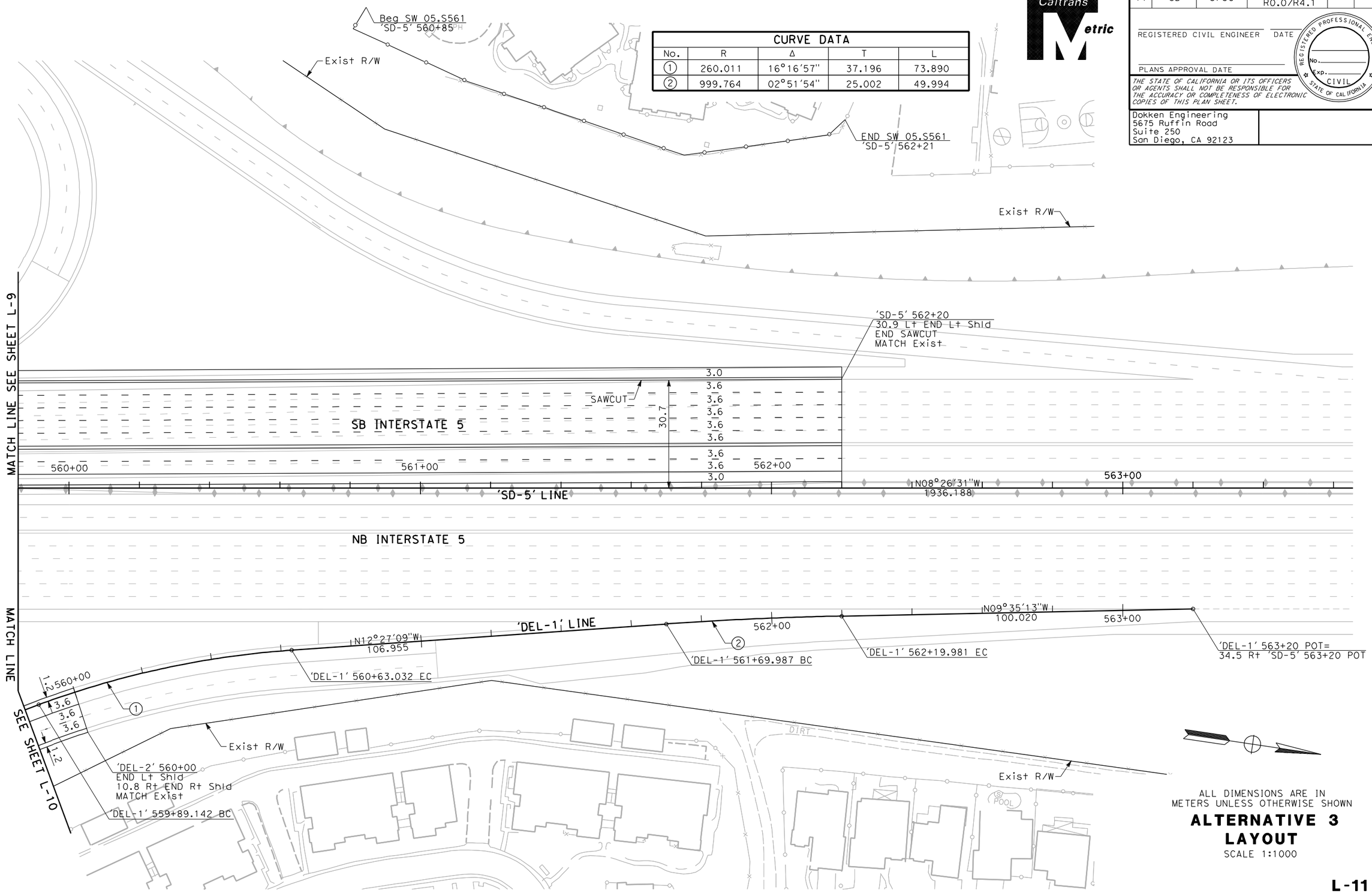
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	260.011	16°16'57"	37.196	73.890
2	999.764	02°51'54"	25.002	49.994



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-11

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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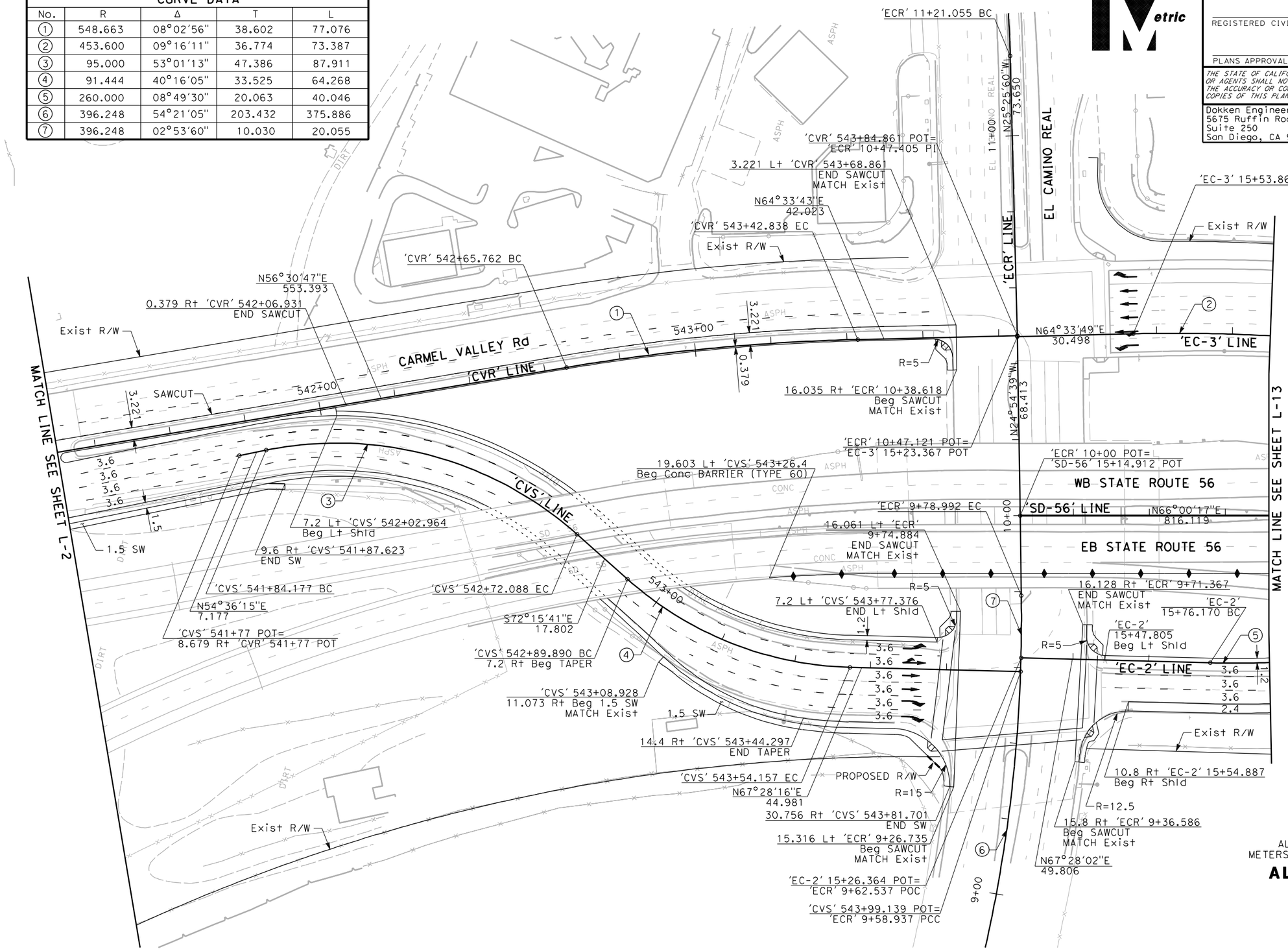
Caltrans Metric

CURVE DATA

No.	R	Δ	T	L
1	548.663	08°02'56"	38.602	77.076
2	453.600	09°16'11"	36.774	73.387
3	95.000	53°01'13"	47.386	87.911
4	91.444	40°16'05"	33.525	64.268
5	260.000	08°49'30"	20.063	40.046
6	396.248	54°21'05"	203.432	375.886
7	396.248	02°53'60"	10.030	20.055



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-12

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CONSULTANT FUNCTIONAL SUPERVISOR

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LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 11:12:23 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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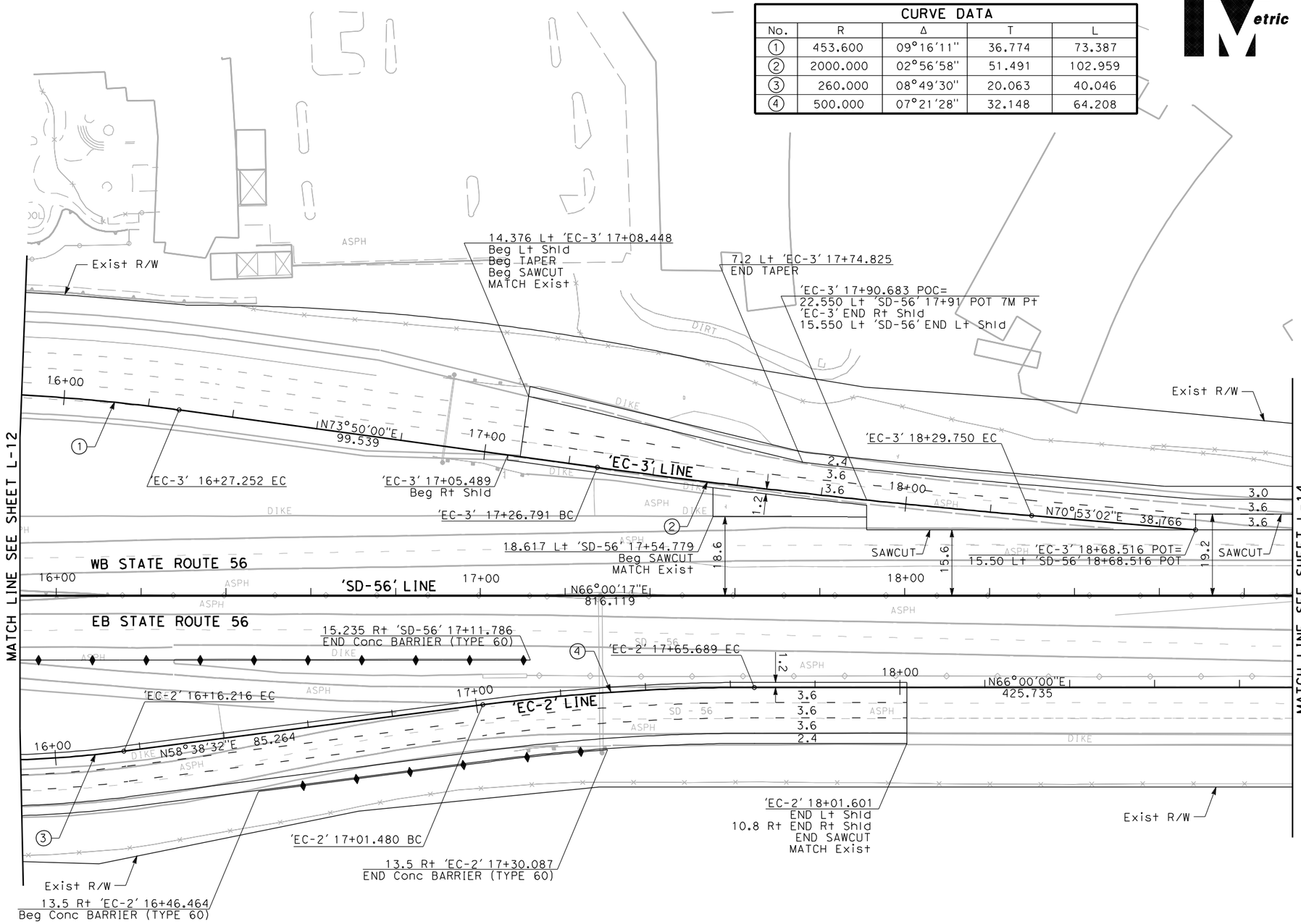
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	453.600	09°16'11"	36.774	73.387
2	2000.000	02°56'58"	51.491	102.959
3	260.000	08°49'30"	20.063	40.046
4	500.000	07°21'28"	32.148	64.208



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-13

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CALCULATED-DESIGNED BY | CHECKED BY

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LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 TIME PLOTTED => 11:12:25 PM

BORDER LAST REVISED 3/1/2007 | RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80 | USERNAME => Merjad DGN FILE => ...\1643ea013_alt3.dgn | CU 00000 | EA 177900

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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Dokken Engineering
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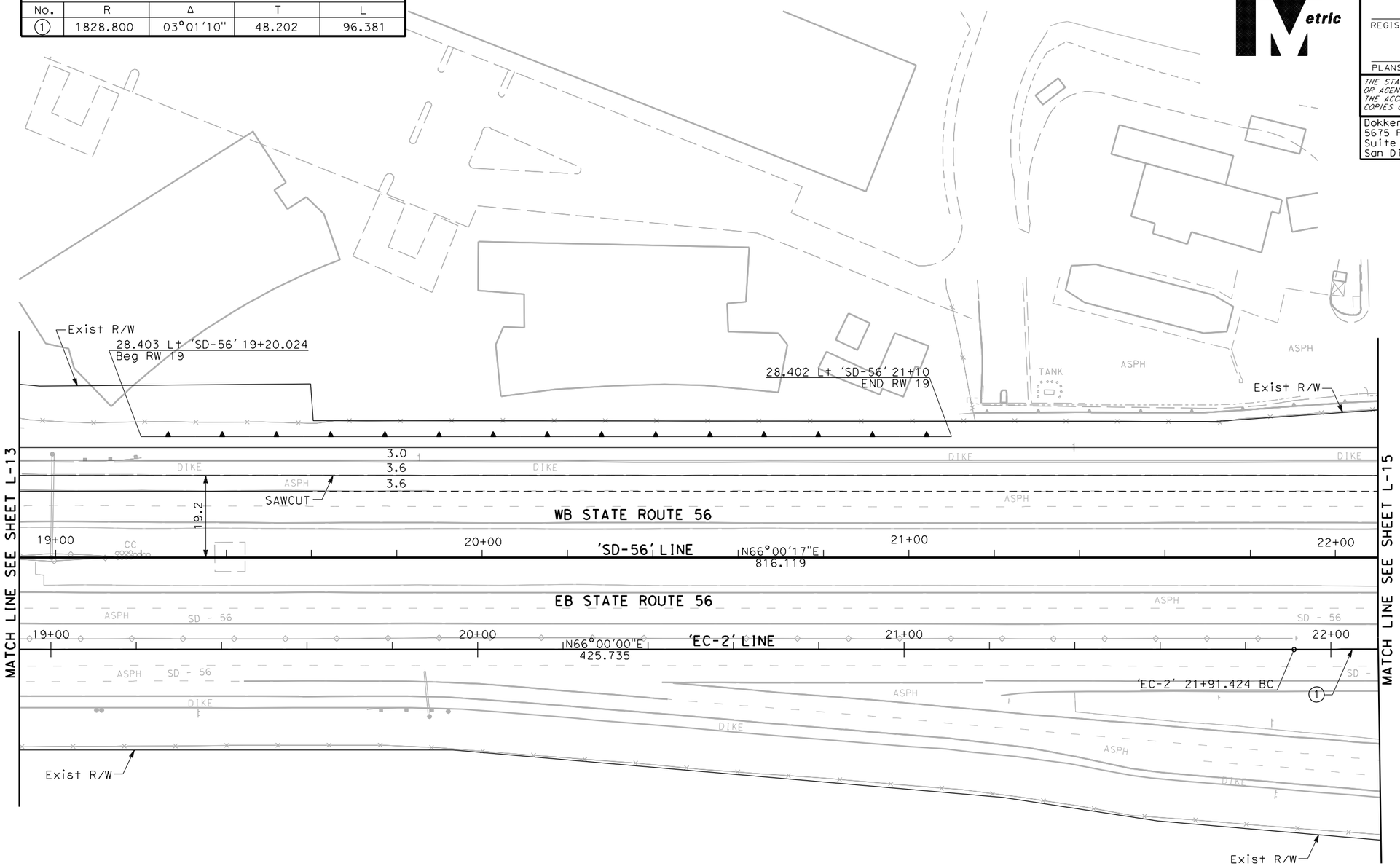
San Diego, CA 92123

Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	1828.800	03°01'10"	48.202	96.381



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3
LAYOUT
SCALE 1:1000

L-14

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Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 11:12:26 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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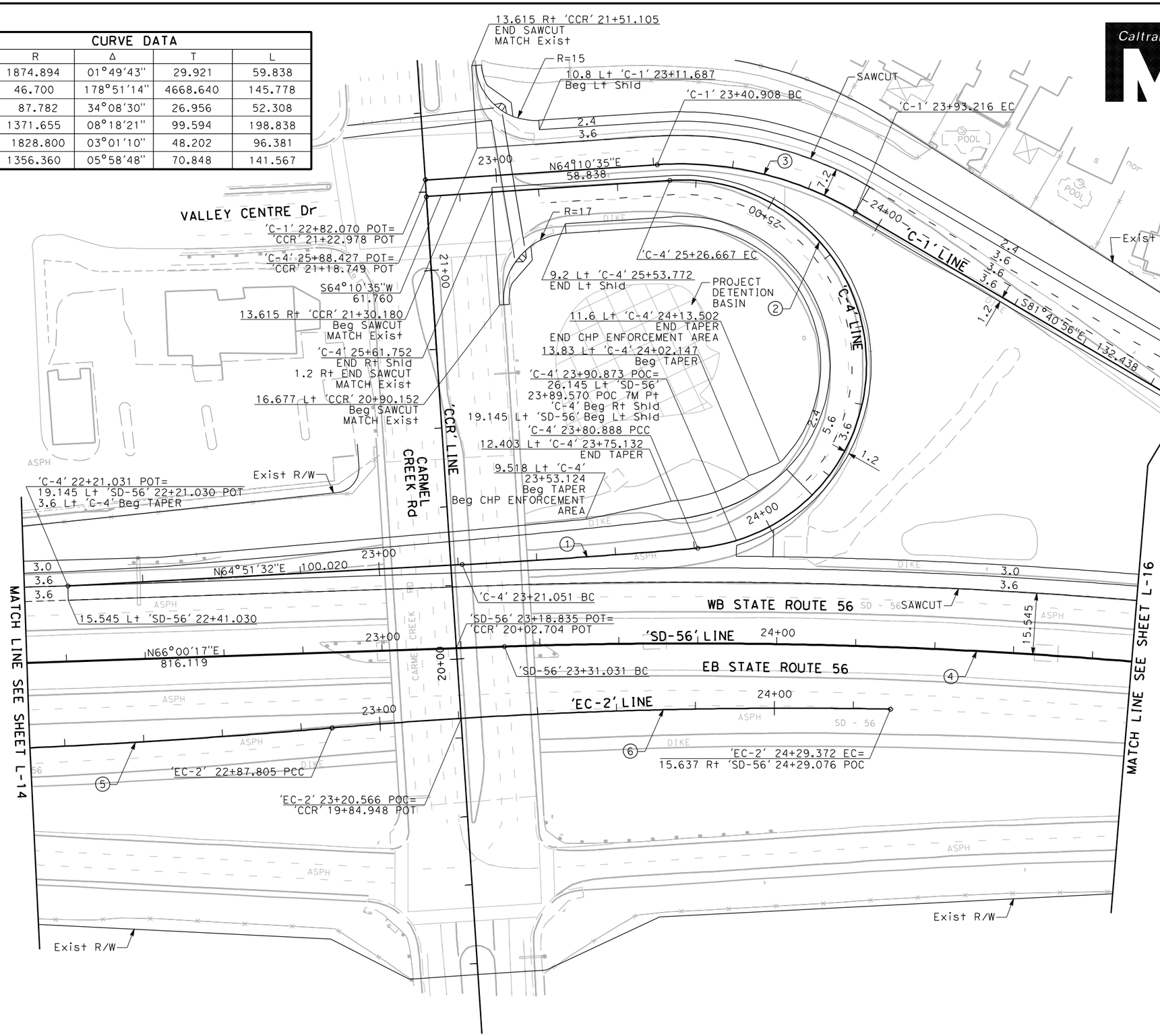
Caltrans Metric

CURVE DATA				
No.	R	Δ	T	L
1	1874.894	01°49'43"	29.921	59.838
2	46.700	178°51'14"	4668.640	145.778
3	87.782	34°08'30"	26.956	52.308
4	1371.655	08°18'21"	99.594	198.838
5	1828.800	03°01'10"	48.202	96.381
6	1356.360	05°58'48"	70.848	141.567



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3
LAYOUT
SCALE 1:1000

L-15

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Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 3/30/2012 | TIME PLOTTED => 1:12:28 PM

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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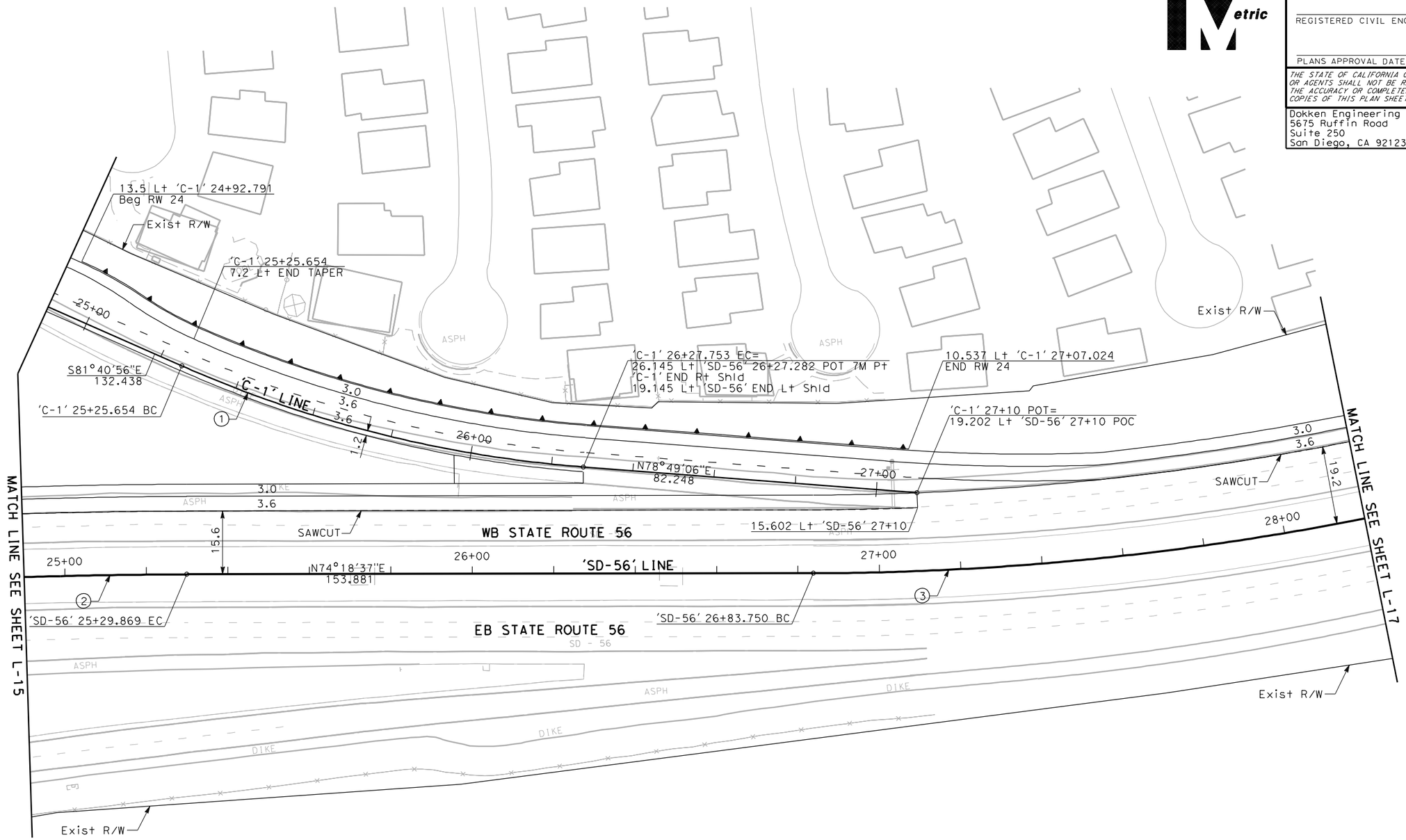

CURVE DATA				
No.	R	Δ	T	L
1	300.000	19°29'58"	51.548	102.098
2	1371.655	08°18'21"	99.594	198.838
3	701.068	18°27'26"	113.907	225.841

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-16

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

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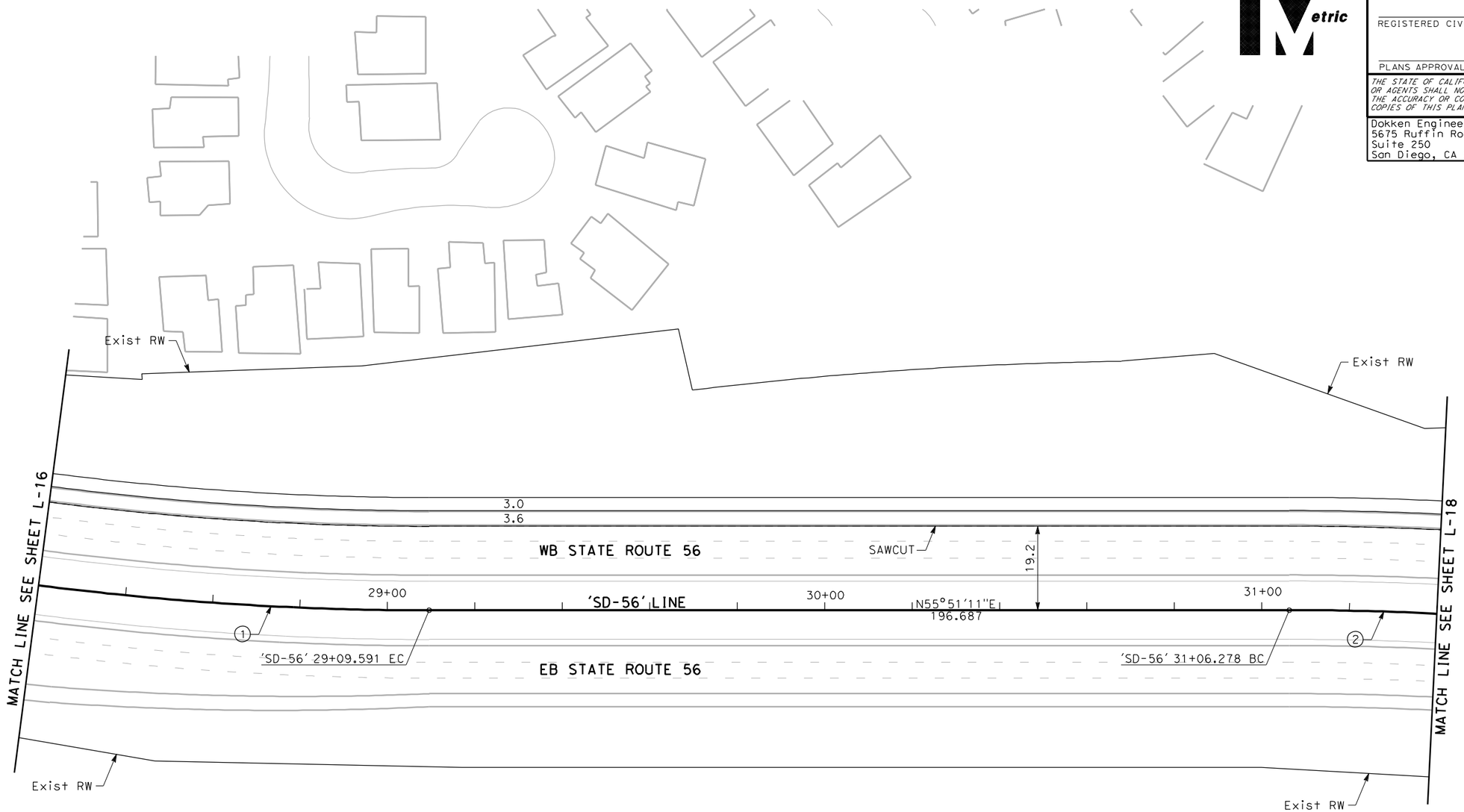

CURVE DATA				
No.	R	Δ	T	L
1	701.068	18°27'26"	113.907	225.841
2	701.068	13°09'04"	80.813	160.916

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-17

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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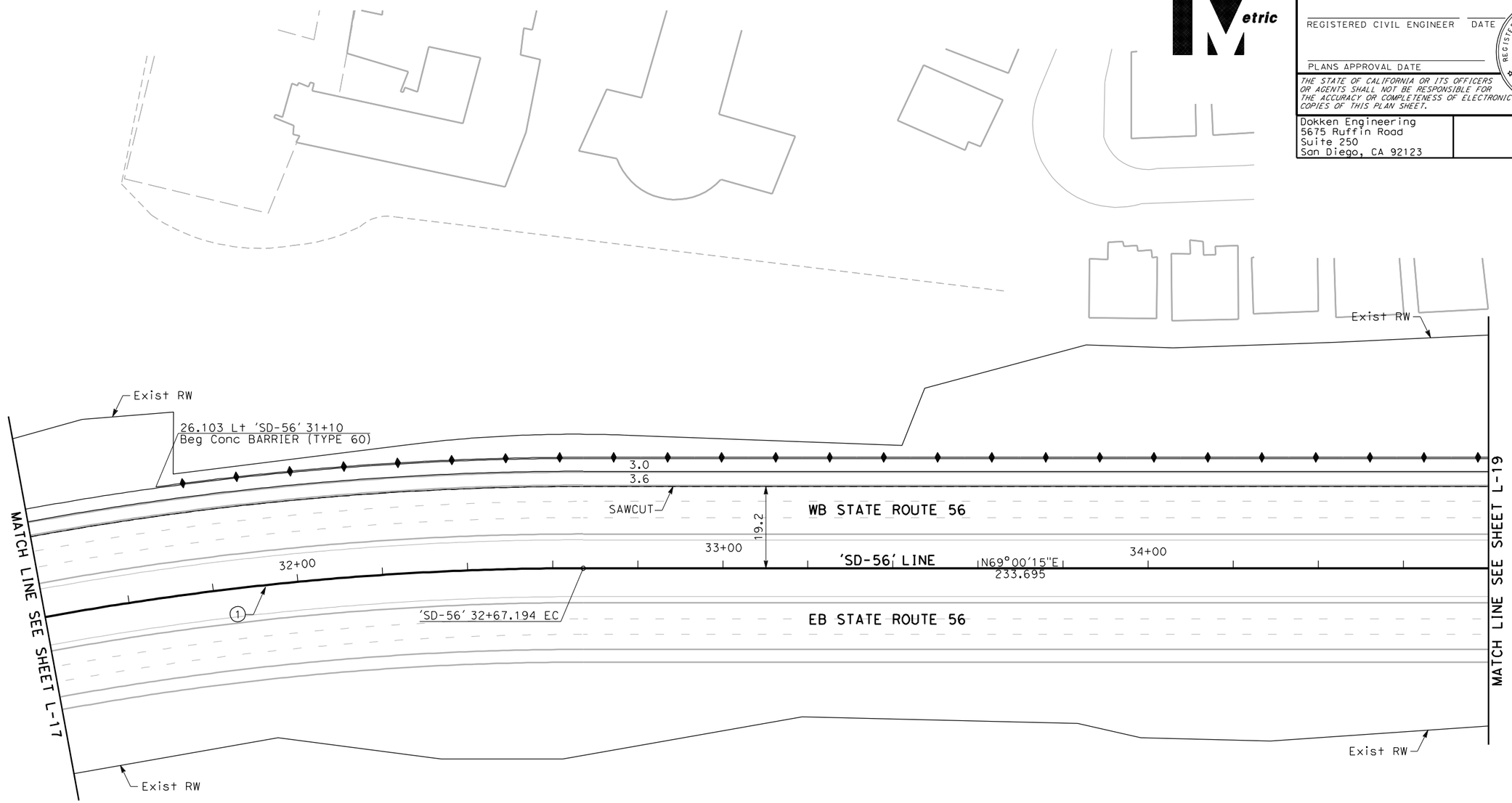

CURVE DATA				
No.	R	Δ	T	L
1	701.068	13°09'04"	80.813	160.916

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-18

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

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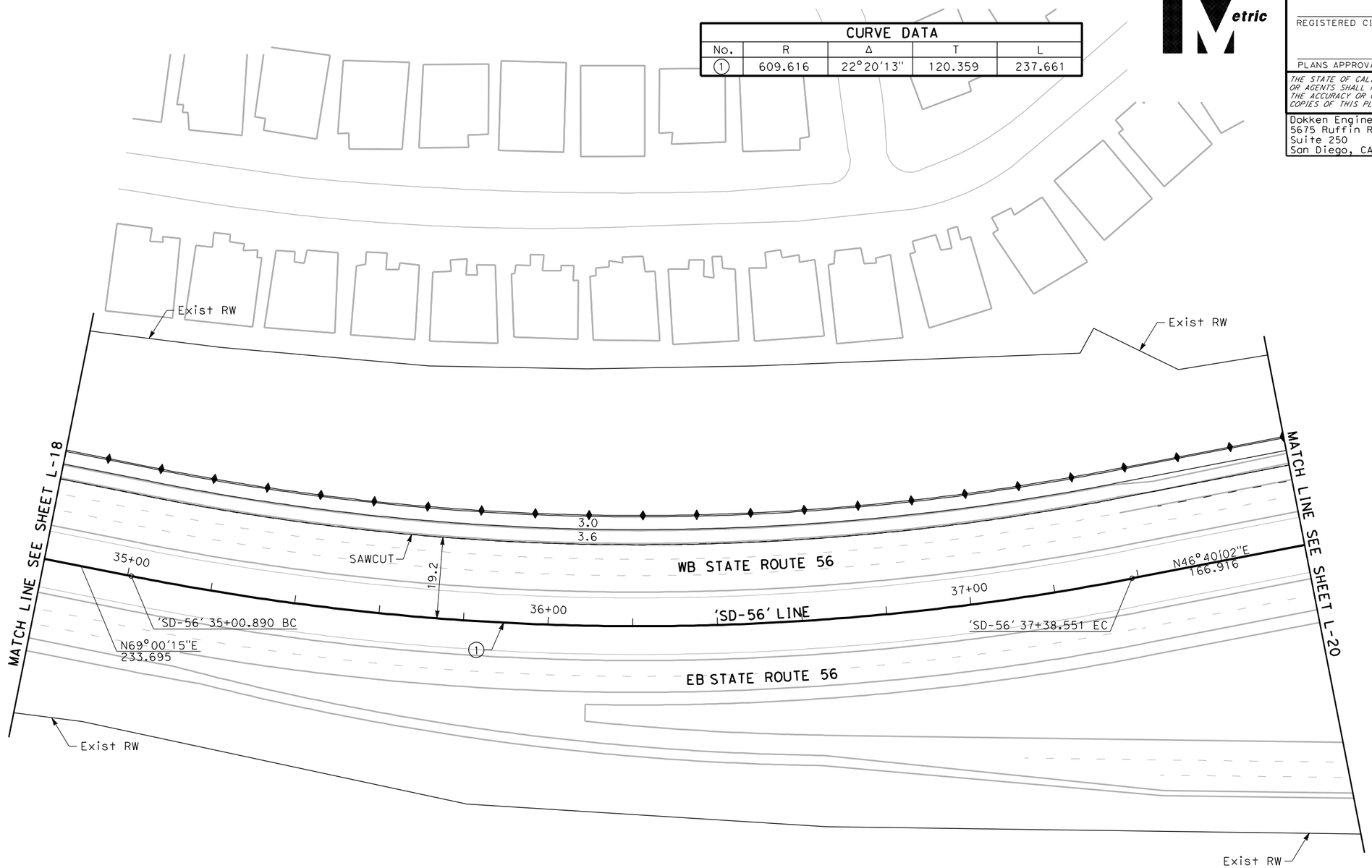
CURVE DATA				
No.	R	Δ	T	L
1	609.616	22°20'13"	120.359	237.661



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3
LAYOUT
SCALE 1:1000

L-19

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	5/56	52.6/56.0, R0.0/R4.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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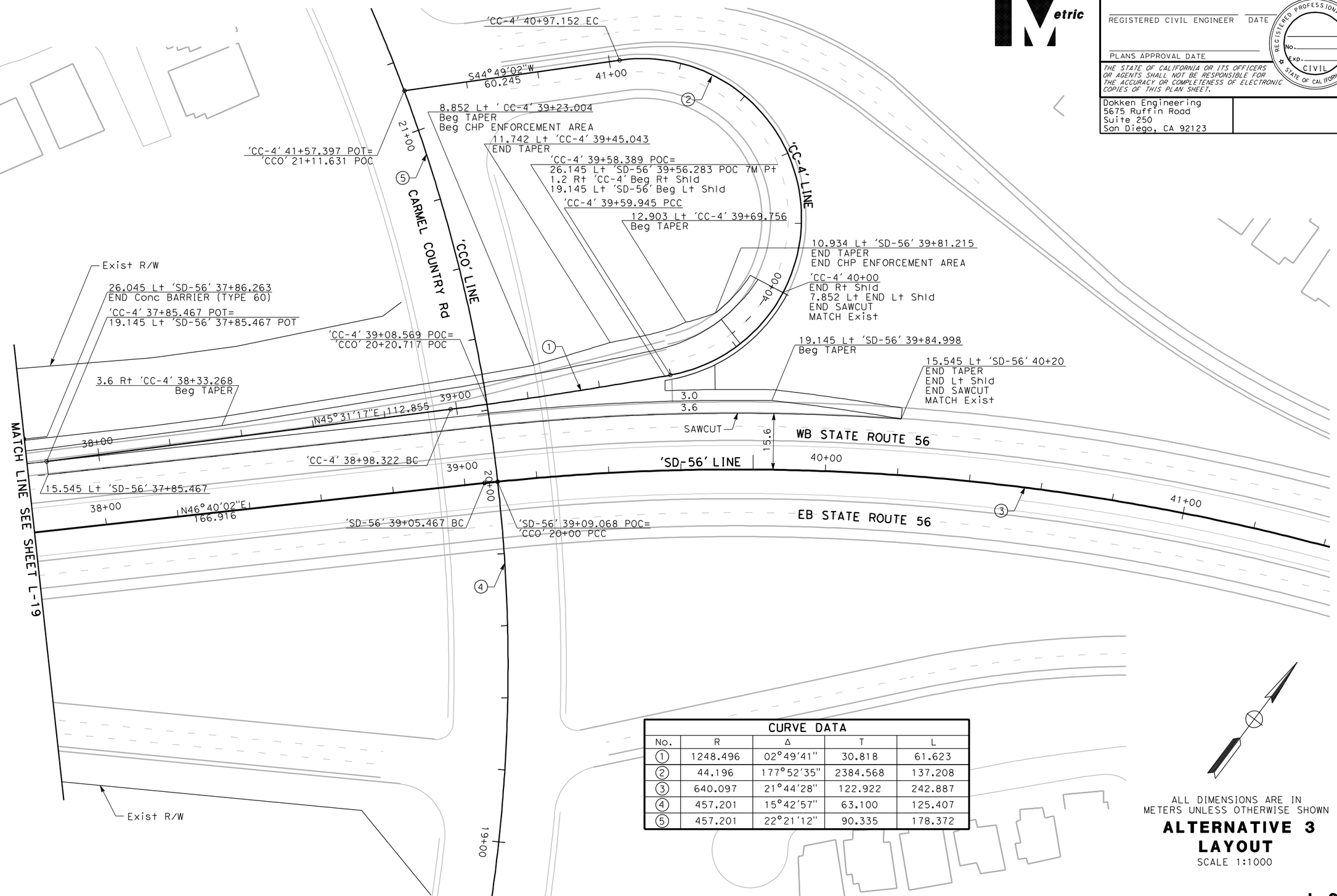

CURVE DATA				
No.	R	Δ	T	L
1	1248.496	02°49'41"	30.818	61.623
2	44.196	177°52'35"	2384.568	137.208
3	640.097	21°44'28"	122.922	242.887
4	457.201	15°42'57"	63.100	125.407
5	457.201	22°21'12"	90.335	178.372

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ALTERNATIVE 3 LAYOUT

SCALE 1:1000

L-20

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