Appendix P Project Plans

P1: Alternative 1 Project Plans

P2: Alternative 2 Project Plans

P3: Alternative 3 Project Plans

P1: Alternative 1 Project Plans

INDEX OF PLANS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN LOS ANGELES AND ORANGE COUNTIES
IN COSTA MESA, FOUNTAIN VALLEY, WESTMINSTER,
HUNTINGTON BEACH, GARDEN GROVE, SEAL BEACH, ROSSMOOR, AND LONG BEACH
ON ROUTE 22 FROM ROUTE 405 TO 0.3 MILE
WEST OF VALLEY VIEW STREET OVERCROSSING
ON ROUTE 22 FROM 0.1 MILE WEST OF ROUTE 605 TO ROUTE 405
ON ROUTE 405 FROM 0.5 MILE SOUTH OF EUCLID STREET UNDERCROSSING
TO 0.2 MILE SOUTH OF 405/605 SEPERATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP

BEGIN CONSTRUCTION
(ROUTE 405)
Sta "A" 644+17
PM 12.1 (Ora)

END CONSTRUCTION
(ROUTE 22)
Sta "EB-SR22-L1" 1219+41
PM R0.7 (Ora)

BEGIN CONSTRUCTION
(ROUTE 22)
Sta "EB-SR22-L1" 1230+45
PM R0.6 (Ora)

Begin Work
Sta 1283+25

END CONSTRUCTION
(ROUTE 405)
Sta "NB605" 1262+95
PM 23.9 (Ora)

End Work
Sta 1311+57

END CONSTRUCTION
(ROUTE 22)
Sta "E" 1117+20
PM R0.7 (Ora)

BEGIN CONSTRUCTION
(ROUTE 22)
Sta "WB SR-22" 1097+13
PM 1.0 (Ora)

Begin Work
Sta 591+37

Begin Work
Sta 264+95

COSTA MESA
FOUNTAIN VALLEY
HUNTINGTON BEACH
WESTMINSTER
GARDEN GROVE
SEAL BEACH
ROSSMOOR
LONG BEACH
LOS ANGELES COUNTY
ORANGE COUNTY

ROUTE 73
ROUTE 405
ROUTE 22
ROUTE 605
BEAR St
BRISTOL St
FAIRVIEW Rd
HARBOR Blvd
SANTA ANA RIVER
NEWHOPE St
EUCLID St
WARD St
BROOKHURST St
TALBERT Ave
SLATER Ave
BUSHARD St
WARNER Ave
NEWLAND St
MAGNOLIA St
EDINGER Ave
BEACH Blvd (ROUTE 39)
McFADDEN Ave
SPRINGDALE St
WESTMINSTER Blvd
GOLDENWEST St
EDWARDS St
BOLSA Ave
BOLSA CHICA Rd
VALLEY VIEW St
SEAL BEACH Blvd
SAN GABRIEL RIVER
ATHERTON St
STUDEBAKER St

SERVICE Rd UC
BRIDGE No.55-0259

SANTA ANA RIVER Br/EUCLID St UC
BRIDGE No.55-0258
EUCLID St ON-RAMP Br
(SANTA ANA RIVER)
BRIDGE No.55-XXXX
EUCLID St ON-RAMP Br
(OCSD DRIVEWAY)
BRIDGE No.55-XXXX

WARNER Ave OC
BRIDGE No.55-0263

WARD St OC
BRIDGE No.55-0429

TALBERT Ave OC
BRIDGE No.55-0260

BROOKHURST St OC
BRIDGE No.55-0402

SLATER Ave OC
BRIDGE No.55-0261

BUSHARD St OC
BRIDGE No.55-0262

HEIL Ave POC
BRIDGE No.55-0407

NEWLAND St OC
BRIDGE No.55-0265

EDINGER Ave OC
BRIDGE No.55-0266

ROUTE EB 39/NB 405 RAMP Conn
BRIDGE No.55-XXXX

MAGNOLIA St OC
BRIDGE No.55-0264

ROUTE WB 39/SB 405 RAMP Conn
BRIDGE No.55-XXXX

McFADDEN Ave OC
BRIDGE No.55-0268

BOLSA OH
BRIDGE No.55-0269

GOLDENWEST St OC
BRIDGE No.55-0271

NAVY OH
BRIDGE No.55-0272

WESTMINSTER Blvd OC
BRIDGE No.55-0274

SPRINGDALE St OC
BRIDGE No.55-0275

BOLSA Ave OC
BRIDGE No.55-0270

EDWARDS St OC
BRIDGE No.55-0273

BOLSA CHICA Rd OC
BRIDGE No.55-0276

SEAL BEACH Blvd OC
BRIDGE No.55-0270

PROJECT REPORT PLANS FOR ALTERNATIVE 1

NO SCALE

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

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

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.

PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
CONTRACT No.	12-0H1000
PROJECT ID	12000001800

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CONSULTANT DESIGN ENGINEER | LICENSE Exp DATE | REGISTRATION No. | CALTRANS DESIGN OVERSIGHT APPROVAL | DATE SIGNED

LAST REVISION 00-00-00 | DATE PLOTTED => 9/30/2014 TIME PLOTTED => 6:13:57 PM

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => p0027660 DGN FILE => ALT_1_ Title_Sheet.dgn | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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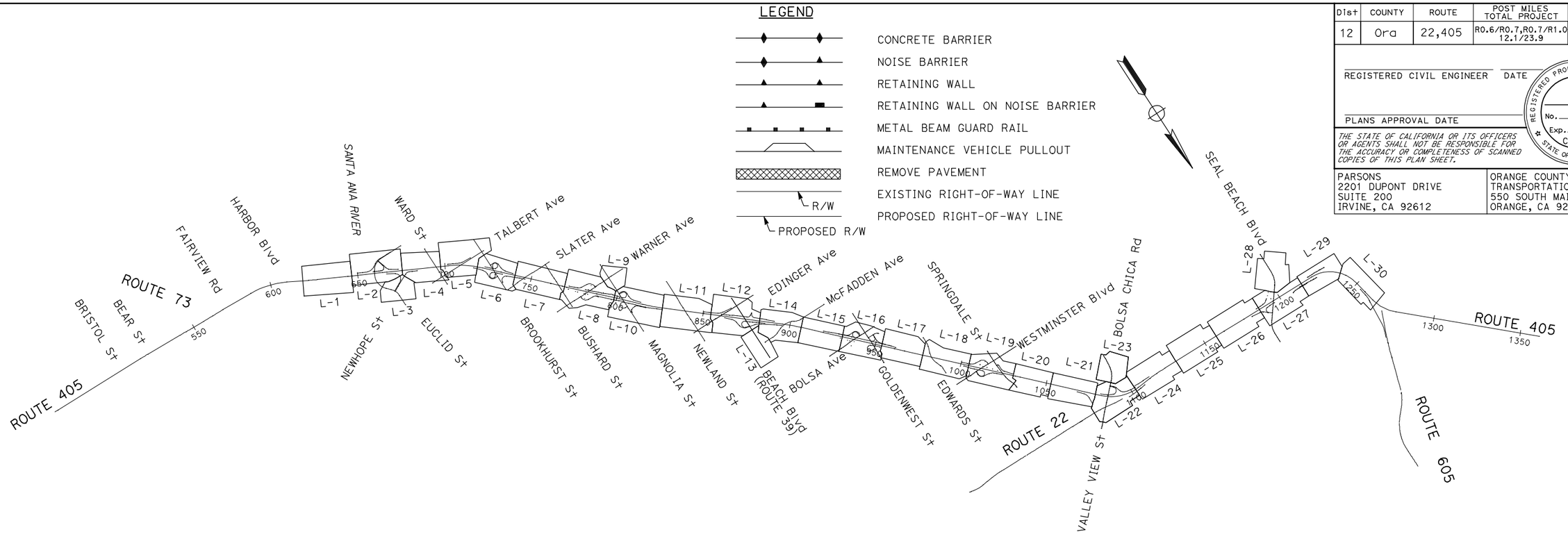
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

LEGEND

- CONCRETE BARRIER
- NOISE BARRIER
- RETAINING WALL
- RETAINING WALL ON NOISE BARRIER
- METAL BEAM GUARD RAIL
- MAINTENANCE VEHICLE PULLOUT
- REMOVE PAVEMENT
- EXISTING RIGHT-OF-WAY LINE
- R/W
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED R/W



LINE INDEX	DESCRIPTION
"A" LINE	ROUTE 405 CENTERLINE
"EC" LINE	EUCLID STREET/ELLIS AVENUE CENTERLINE
"ECL-1" LINE	EUCLID STREET SB ON-RAMP
"ECL-2" LINE	EUCLID STREET SB LOOP ON-RAMP
"ECL-3" LINE	EUCLID STREET SB OFF-RAMP
"ECR-1" LINE	EUCLID STREET NB OFF-RAMP
"ECR-2" LINE	EUCLID STREET NB ON-RAMP
"W" LINE	WARD STREET CENTERLINE
"T" LINE	TALBERT AVENUE CENTERLINE
"TL-1" LINE	TALBERT AVENUE SB ON-RAMP
"BH" LINE	BROOKHURST STREET CENTERLINE
"BHL-1" LINE	BROOKHURST STREET SB LOOP ON-RAMP
"BHL-2" LINE	BROOKHURST STREET SB OFF-RAMP
"BHR-1" LINE	BROOKHURST STREET NB OFF-RAMP
"BHR-2" LINE	BROOKHURST STREET NB LOOP ON-RAMP
"BHR-3" LINE	BROOKHURST STREET NB ON-RAMP
"S" LINE	SLATER AVENUE CENTERLINE
"BD" LINE	BUSHARD STREET CENTERLINE
"WN" LINE	WARNER AVENUE CENTERLINE
"WNL-1" LINE	WARNER AVENUE SB ON-RAMP
"WNL-2" LINE	WARNER AVENUE SB LOOP OFF-RAMP
"WNR-1" LINE	WARNER AVENUE NB LOOP OFF-RAMP
"WNR-2" LINE	WARNER AVENUE NB ON-RAMP
"M" LINE	MAGNOLIA STREET CENTERLINE
"ML-1" LINE	MAGNOLIA STREET SB LOOP ON-RAMP
"ML-2" LINE	MAGNOLIA STREET SB OFF-RAMP

LINE INDEX	DESCRIPTION
"MR-1" LINE	MAGNOLIA STREET NB OFF-RAMP
"MR-2" LINE	MAGNOLIA STREET NB LOOP ON-RAMP
"MR-3" LINE	MAGNOLIA STREET NB ON-RAMP
"NL" LINE	NEWLAND STREET CENTERLINE
"ED" LINE	EDINGER AVENUE CENTERLINE
"EDL-1" LINE	EDINGER AVENUE SB ON-RAMP
"B" LINE	BEACH BOULEVARD (ROUTE 39) CENTERLINE
"BL-1" LINE	BEACH BOULEVARD/CENTER AVENUE SB HOOK ON-RAMP
"BL-2" LINE	BEACH BOULEVARD/CENTER AVENUE SB HOOK OFF-RAMP
"BR-1" LINE	BEACH BOULEVARD NB OFF-RAMP
"BR-2" LINE	BEACH BOULEVARD NB LOOP ON-RAMP
"BR-3" LINE	BEACH BOULEVARD NB ON-RAMP
"MF" LINE	McFADDEN AVENUE CENTERLINE
"BGL-1" LINE	BOLSA AVENUE/GOLDENWEST STREET SB C-D ROAD
"BS" LINE	BOLSA AVENUE CENTERLINE
"BSL-1" LINE	BOLSA AVENUE SB ON-RAMP
"BSL-2" LINE	BOLSA AVENUE SB LOOP OFF-RAMP
"BSR-1" LINE	BOLSA AVENUE NB LOOP OFF-RAMP
"GW" LINE	GOLDENWEST STREET CENTERLINE
"E" LINE	WESTMINSTER MALL CENTERLINE
"GWL-1" LINE	GOLDENWEST STREET/WESTMINSTER MALL SB LOOP ON-RAMP
"GWL-2" LINE	GOLDENWEST STREET/WESTMINSTER MALL SB OFF-RAMP
"GWR-1" LINE	GOLDENWEST STREET NB LOOP ON-RAMP
"EW" LINE	EDWARDS STREET CENTERLINE
"WM" LINE	WESTMINSTER BOULEVARD CENTERLINE
"WML-1" LINE	WESTMINSTER BOULEVARD SB ON-RAMP

LINE INDEX	DESCRIPTION
"WML-2" LINE	WESTMINSTER BOULEVARD SB LOOP OFF-RAMP
"WMR-1" LINE	WESTMINSTER BOULEVARD NB LOOP OFF-RAMP
"WMR-2" LINE	WESTMINSTER BOULEVARD NB ON-RAMP
"SD" LINE	SPRINGDALE STREET CENTERLINE
"SDL-1" LINE	SPRINGDALE STREET SB OFF-RAMP
"BC" LINE	BOLSA CHICA ROAD/VALLEY VIEW STREET CENTERLINE
"BCL-1" LINE	BOLSA CHICA ROAD SB LOOP ON-RAMP
"BCL-2" LINE	BOLSA CHICA ROAD SB OFF-RAMP
"BCR-1" LINE	GARDEN GROVE BOULEVARD NB OFF-RAMP
"SR22" LINE	EXIST ROUTE 22 CENTERLINE
"H" LINE	405-22 HOV CONNECTOR CENTERLINE
"E1" LINE	S405-E22 CONNECTOR STATIONLINE (WEST OF VALLEY VIEW STREET)
"W1" LINE	W22-N405 CONNECTOR STATIONLINE (EAST OF VALLEY VIEW STREET)
"WB SR-22" LINE	W22-N405 CONNECTOR STATIONLINE (WEST OF VALLEY VIEW STREET)
"EB SR-22" LINE	S405-E22 CONNECTOR STATIONLINE (EAST OF VALLEY VIEW STREET)
"SB" LINE	SEAL BEACH BOULEVARD CENTERLINE
"SBL-1" LINE	SEAL BEACH BOULEVARD SB ON-RAMP
"SBL-2" LINE	SEAL BEACH BOULEVARD SB LOOP OFF-RAMP
"SBR-1" LINE	SEAL BEACH BOULEVARD NB OFF-RAMP
"SBR-2" LINE	SEAL BEACH BOULEVARD NB LOOP ON-RAMP
"WB SR-22 R1" LINE	OLD RANCH PARKWAY NB ON-RAMP
"WB SR-22 R2" LINE	N405-W22 CONNECTOR CENTERLINE
"EB SR-22 L1" LINE	E22-S405 CONNECTOR CENTERLINE
"NB 605" LINE	N405-N605 CONNECTOR CENTERLINE
"I605" LINE	ROUTE 605 CENTERLINE

ALTERNATIVE 1
KEY MAP

NO SCALE

K-1

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CALCULATED-DESIGNED BY | CHECKED BY

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BORDER LAST REVISED 7/2/2010

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DGN FILE => ALT_1_ Key_Map.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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ORANGE COUNTY
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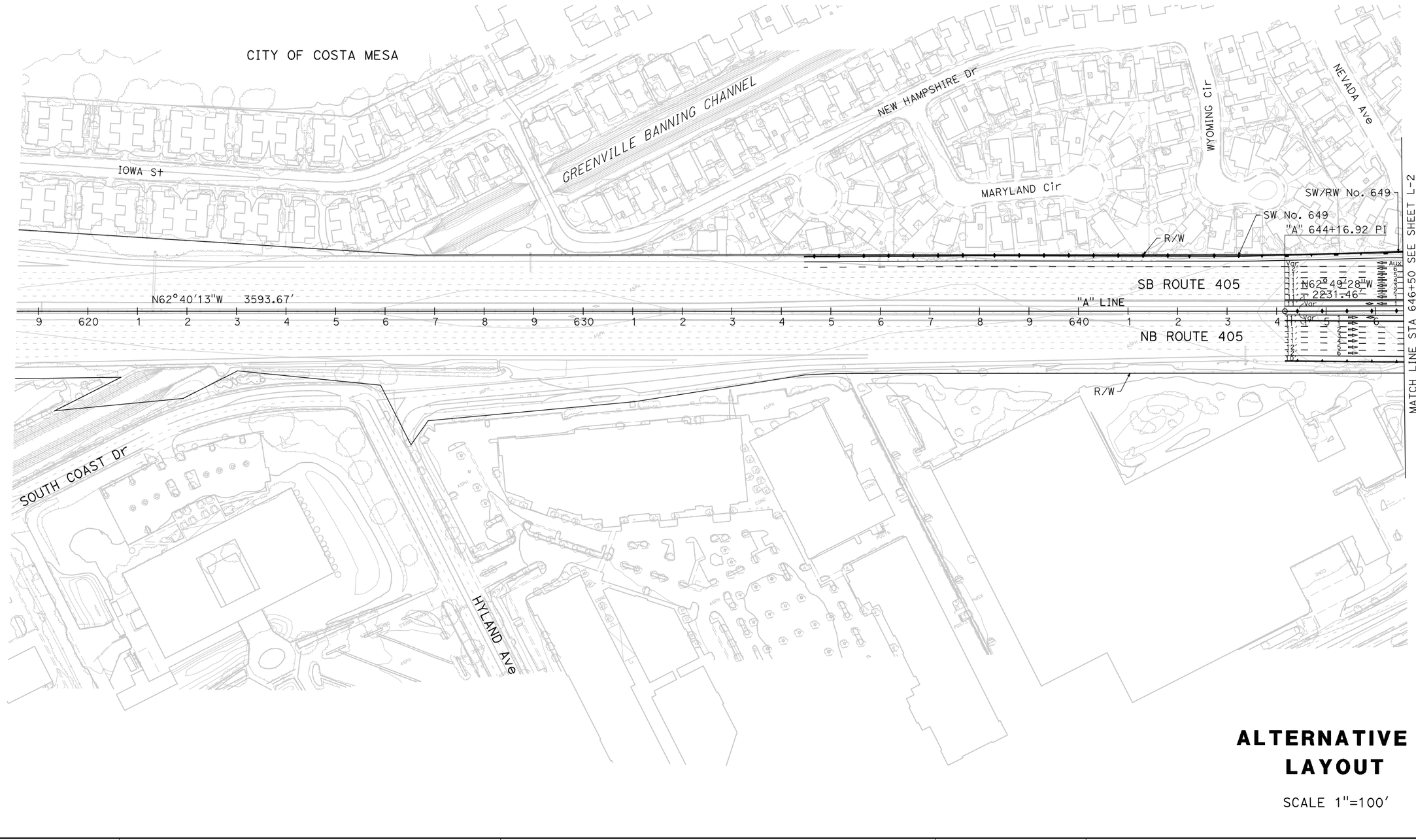
ORANGE, CA 92863



ALTERNATIVE 1 LAYOUT

SCALE 1"=100' **L-1**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

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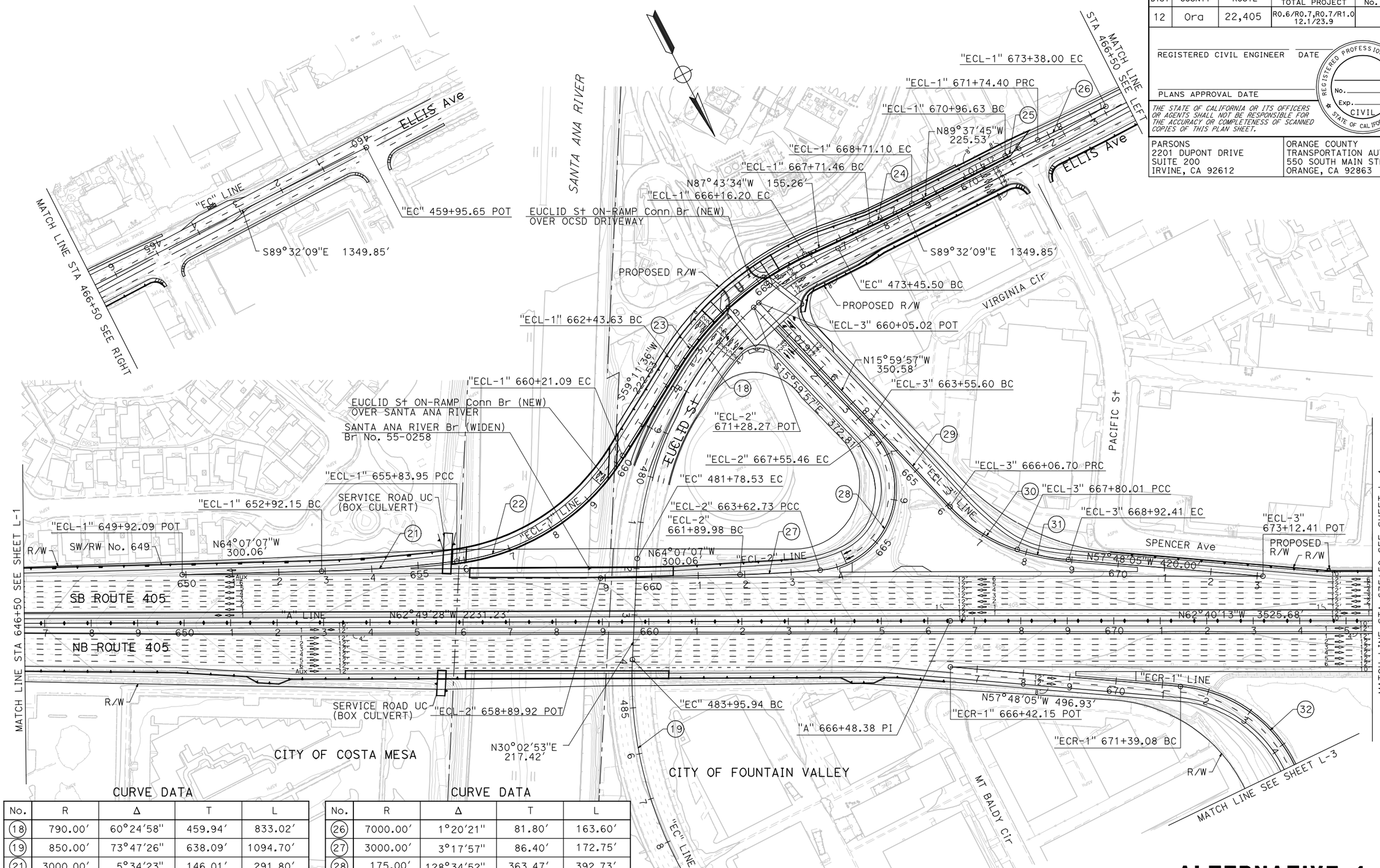

CURVE DATA

No.	R	Δ	T	L
(18)	790.00′	60°24′58"	459.94′	833.02′
(19)	850.00′	73°47′26"	638.09′	1094.70′
(21)	3000.00′	5°34′23"	146.01′	291.80′
(22)	490.00′	51°06′55"	234.32′	437.14′
(23)	645.30′	33°04′50"	191.64′	372.57′
(24)	3000.00′	1°54′11"	49.83′	99.64′
(25)	2791.17′	1°35′47"	38.89′	77.77′

CURVE DATA

No.	R	Δ	T	L
(26)	7000.00′	1°20′21"	81.80′	163.60′
(27)	3000.00′	3°17′57"	86.40′	172.75′
(28)	175.00′	128°34′52"	363.47′	392.73′
(29)	20000.00′	0°43′10"	125.55′	251.10′
(30)	335.00′	29°38′29"	88.64′	173.31′
(31)	500.00′	12°52′49"	56.44′	112.40′
(32)	300.00′	102°24′12"	373.15′	536.18′

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-2**

LAST REVISION DATE PLOTTED => 5/1/2012
00-00-00 TIME PLOTTED => 9:35:43 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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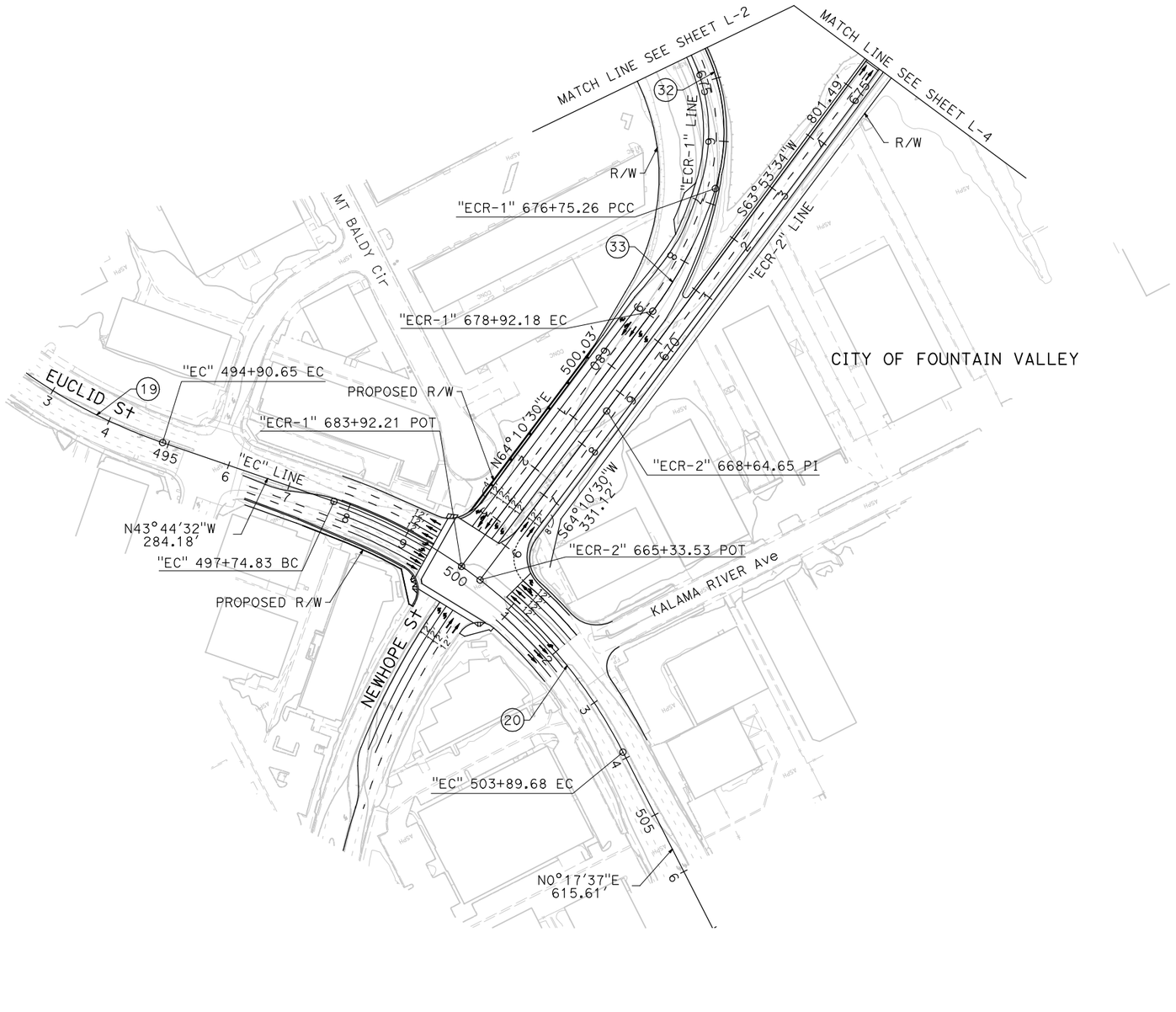
550 SOUTH MAIN STREET
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
(19)	850.00′	73°47′26"	638.09′	1094.70′
(20)	800.00′	44°02′09"	323.51′	614.86′
(32)	300.00′	102°24′12"	373.15′	536.18′
(33)	635.00′	19°34′23"	109.53′	216.92′

ALTERNATIVE 1
LAYOUT

SCALE 1"=100′ **L-3**

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DGN FILE => ALT 1 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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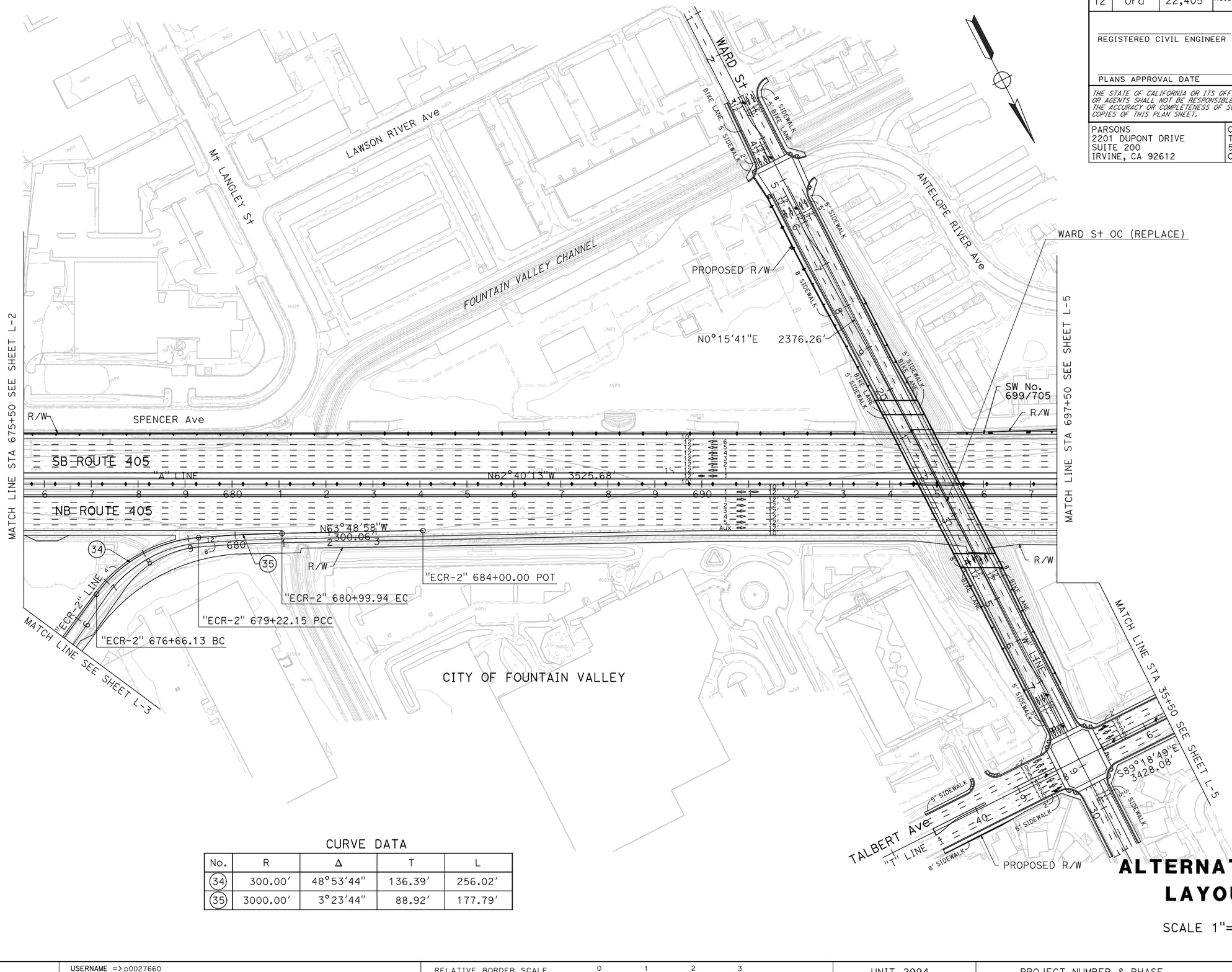

CURVE DATA

No.	R	Δ	T	L
(34)	300.00′	48°53′44"	136.39′	256.02′
(35)	3000.00′	3°23′44"	88.92′	177.79′

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
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REVISED BY
DATE REVISED

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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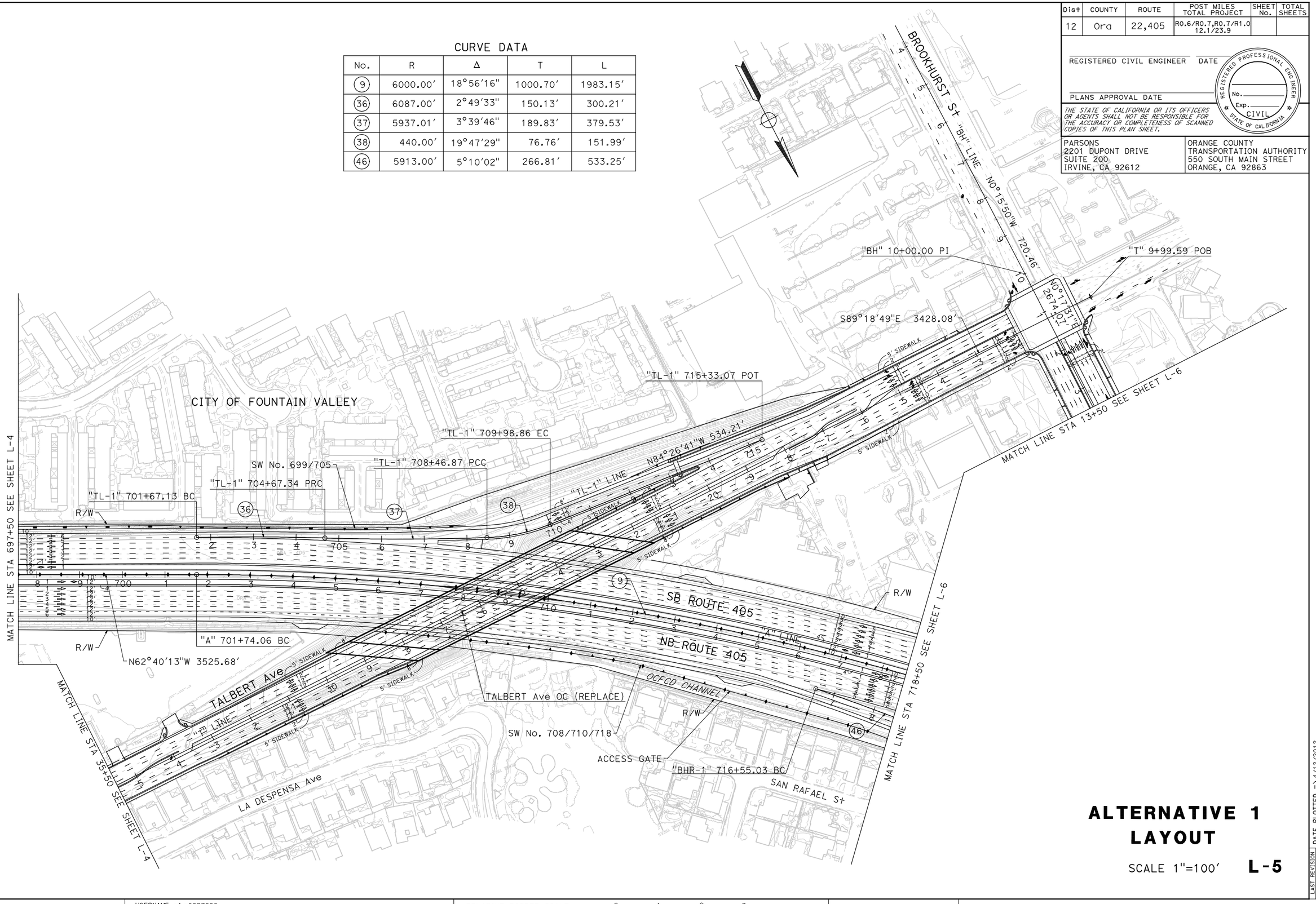
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(9)	6000.00′	18°56′16"	1000.70′	1983.15′
(36)	6087.00′	2°49′33"	150.13′	300.21′
(37)	5937.01′	3°39′46"	189.83′	379.53′
(38)	440.00′	19°47′29"	76.76′	151.99′
(46)	5913.00′	5°10′02"	266.81′	533.25′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-5**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

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DGN FILE => ALT 1 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
(9)	6000.00′	18°56′16"	1000.70′	1983.15′
(40)	3000.00′	2°59′47"	78.46′	156.88′
(41)	477.00′	20°06′45"	84.59′	167.44′
(42)	152.00′	281°03′35"	-	745.62′
(44)	210.00′	85°45′17"	194.99′	314.31′
(45)	500.00′	35°12′37"	158.66′	307.27′
(46)	5913.00′	5°10′02"	266.81′	533.25′
(47)	500.00′	38°35′55"	175.09′	336.84′
(48)	230.00′	89°43′35"	228.90′	360.18′
(49)	162.00′	278°29′03"	-	787.40′
(50)	313.00′	24°29′54"	67.95′	133.83′
(51)	3000.00′	3°12′54"	84.19′	168.33′
(52)	225.00′	123°36′41"	419.72′	485.42′
(54)	7000.00′	4°08′15"	252.86′	505.50′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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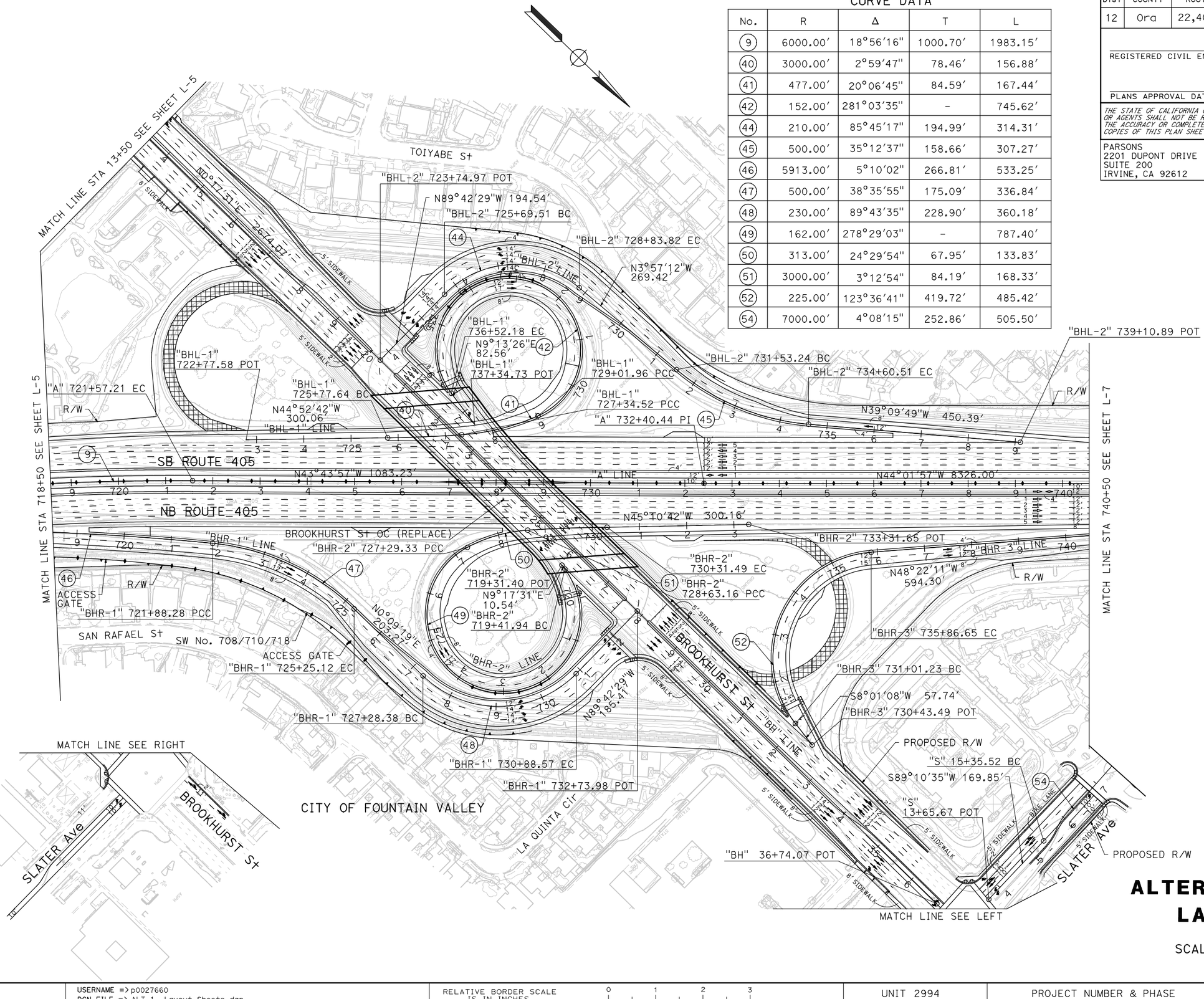
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-6**

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BORDER LAST REVISED 7/2/2010

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DGN FILE => ALT 1 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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ORANGE COUNTY
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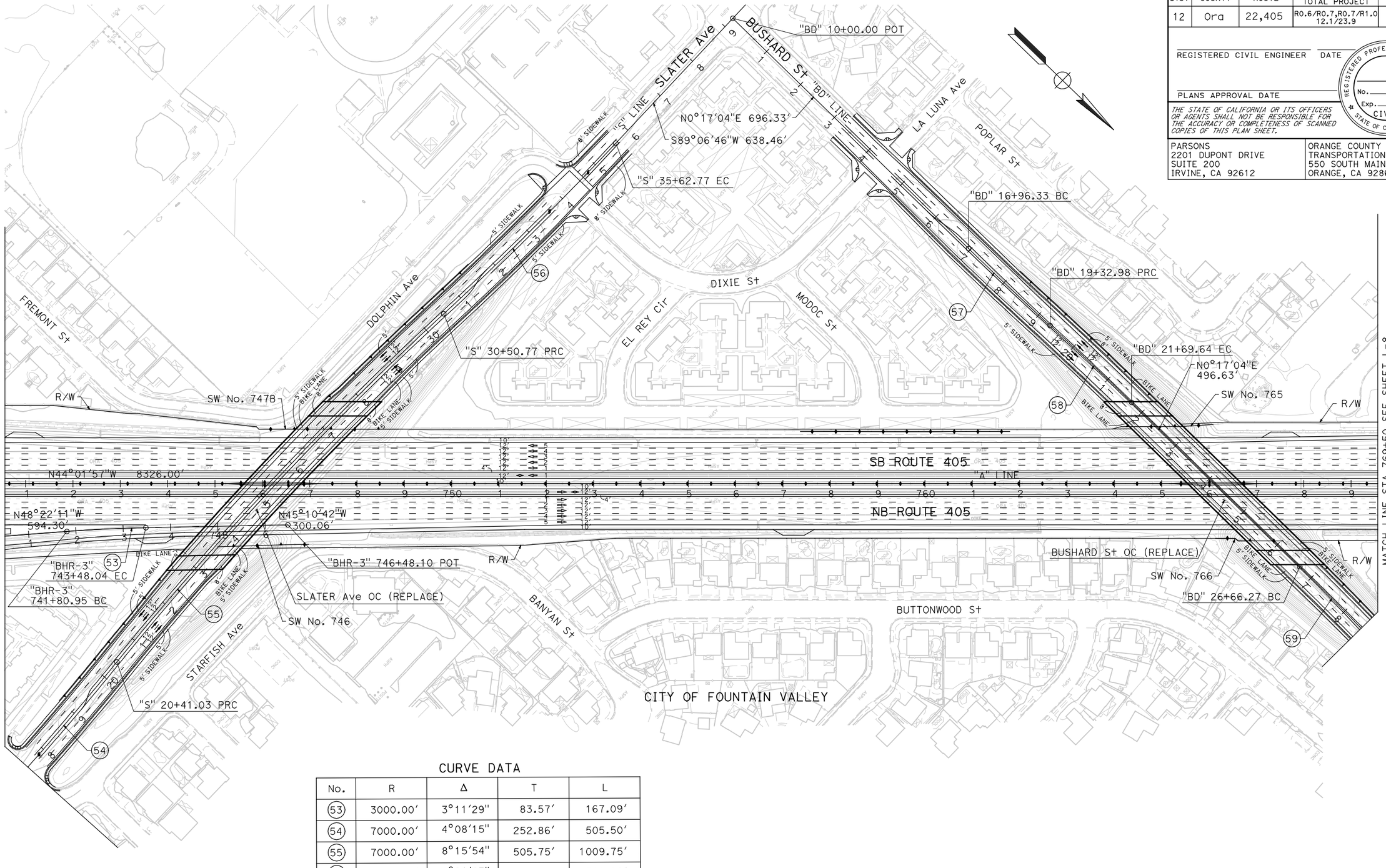

CURVE DATA

No.	R	Δ	T	L
(53)	3000.00′	3°11′29"	83.57′	167.09′
(54)	7000.00′	4°08′15"	252.86′	505.50′
(55)	7000.00′	8°15′54"	505.75′	1009.75′
(56)	7000.00′	4°11′27"	256.11′	511.99′
(57)	7000.00′	1°56′13"	118.34′	236.65′
(58)	7000.00′	1°56′13"	118.34′	236.65′
(59)	7000.00′	1°56′13"	118.34′	236.65′

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-7**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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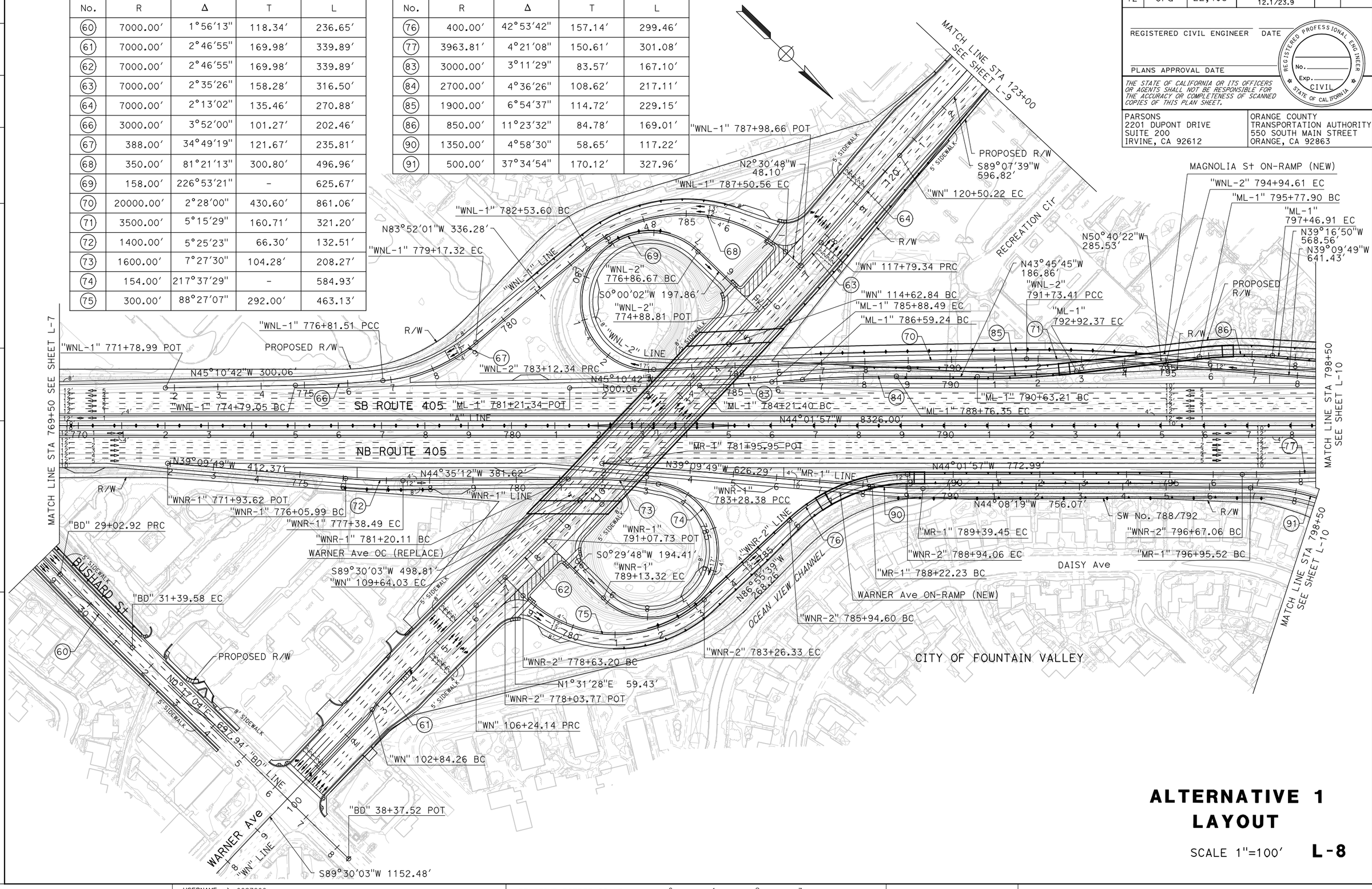
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(60)	7000.00′	1°56′13"	118.34′	236.65′
(61)	7000.00′	2°46′55"	169.98′	339.89′
(62)	7000.00′	2°46′55"	169.98′	339.89′
(63)	7000.00′	2°35′26"	158.28′	316.50′
(64)	7000.00′	2°13′02"	135.46′	270.88′
(66)	3000.00′	3°52′00"	101.27′	202.46′
(67)	388.00′	34°49′19"	121.67′	235.81′
(68)	350.00′	81°21′13"	300.80′	496.96′
(69)	158.00′	226°53′21"	-	625.67′
(70)	20000.00′	2°28′00"	430.60′	861.06′
(71)	3500.00′	5°15′29"	160.71′	321.20′
(72)	1400.00′	5°25′23"	66.30′	132.51′
(73)	1600.00′	7°27′30"	104.28′	208.27′
(74)	154.00′	217°37′29"	-	584.93′
(75)	300.00′	88°27′07"	292.00′	463.13′

CURVE DATA

No.	R	Δ	T	L
(76)	400.00′	42°53′42"	157.14′	299.46′
(77)	3963.81′	4°21′08"	150.61′	301.08′
(83)	3000.00′	3°11′29"	83.57′	167.10′
(84)	2700.00′	4°36′26"	108.62′	217.11′
(85)	1900.00′	6°54′37"	114.72′	229.15′
(86)	850.00′	11°23′32"	84.78′	169.01′
(90)	1350.00′	4°58′30"	58.65′	117.22′
(91)	500.00′	37°34′54"	170.12′	327.96′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-8**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
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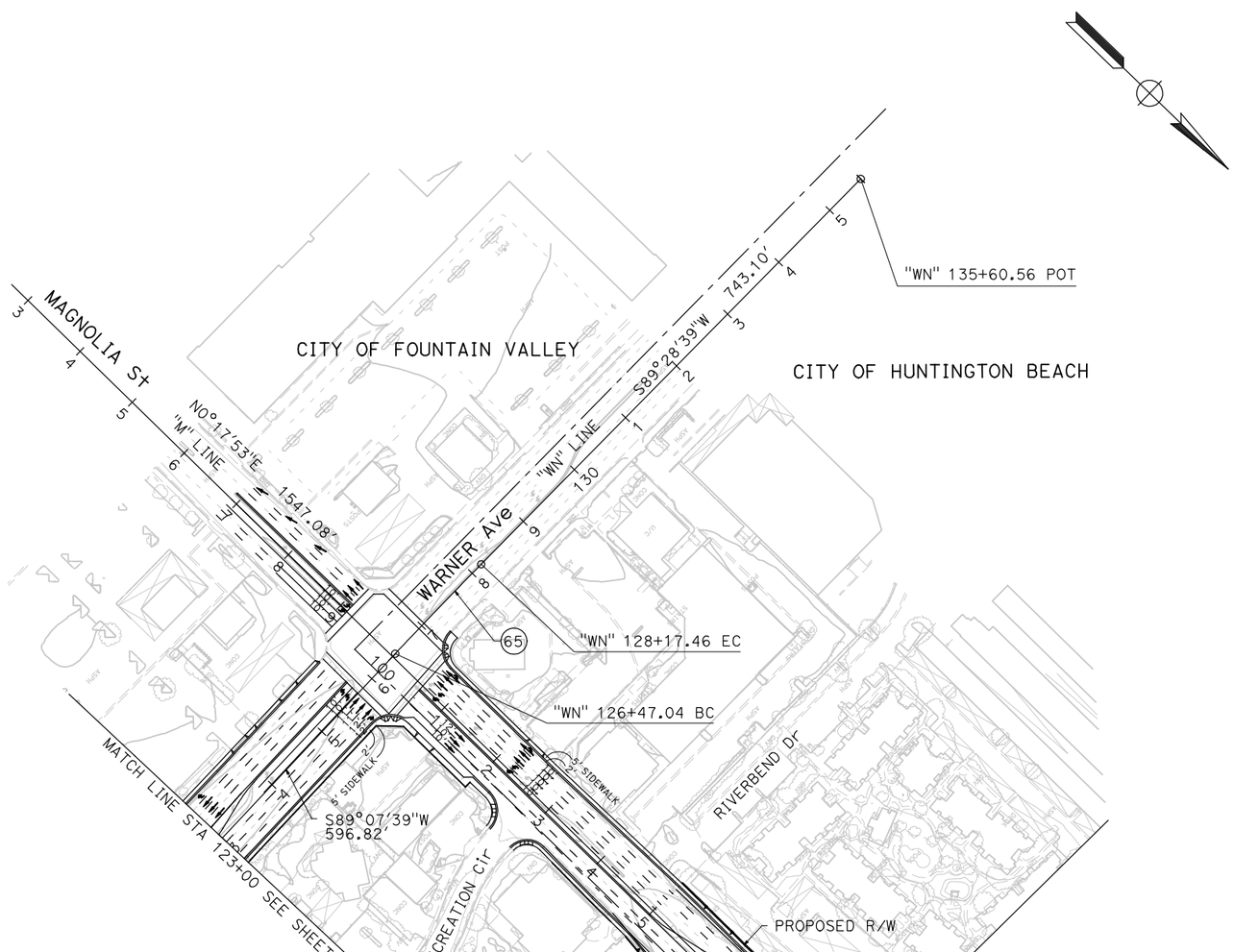

CURVE DATA

No.	R	Δ	T	L
(65)	7000.00′	1°23′42"	85.21′	170.42′
(79)	7000.00′	2°09′57"	132.31′	264.59′

ALTERNATIVE 1
LAYOUT

SCALE 1"=100′ **L-9**

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CURVE DATA

No.	R	Δ	T	L
(10)	12000.00′	5°14′45"	549.73′	1098.69′
(77)	3963.81′	4°21′08"	150.61′	301.08′
(78)	3000.00′	3°12′23"	83.96′	167.88′
(79)	7000.00′	2°09′57"	132.31′	264.59′
(80)	7000.00′	2°09′57"	132.31′	264.59′
(81)	7000.00′	2°09′57"	132.31′	264.59′
(82)	7000.00′	2°09′57"	132.31′	264.59′
(87)	170.00′	229°44′17"	-	681.65′
(88)	250.00′	90°04′27"	250.32′	393.02′
(89)	500.00′	40°28′22"	184.32′	353.19′
(91)	500.00′	37°34′54"	170.12′	327.96′

CURVE DATA

No.	R	Δ	T	L
(92)	250.00′	83°08′42"	221.75′	362.79′
(93)	172.00′	224°33′27"	-	674.11′
(94)	10000.00′	2°03′39"	179.86′	359.67′
(95)	20000.00′	0°55′53"	162.54′	325.08′
(96)	2200.00′	6°08′53"	118.15′	236.06′
(97)	20000.00′	1°10′23"	204.74′	409.47′
(98)	12087.00′	1°26′03"	151.27′	302.53′
(99)	120.00′	49°21′15"	55.14′	103.37′
(100)	450.00′	32°37′13"	131.68′	256.20′
(101)	250.00′	40°22′28"	91.92′	176.17′
(102)	3000.00′	3°11′32"	83.59′	167.15′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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550 SOUTH MAIN STREET
ORANGE, CA 92863

MATCH LINE STA 108+50 SEE SHEET L-9
"M" 109+26.85 PRC
"ML-2" 798+69.99 POT
N88°45'54"W 147.74'
"ML-2" 800+17.73 BC
R/W
5' SIDEWALK
"ML-2" 804+10.76 EC
ACCESS GATE
"ML-1" 809+97.12 EC
S89°01'07"E 184.40'
"ML-1" 811+81.52 POT
"M" 111+91.44 EC
N0°17'53"E 615.53'
PROPOSED R/W
N39°16'50"W 568.86'
"ML-1" LINE
"ML-2" 806+05.46 BC
SW/RW No. 807/811
"ML-2" 809+58.65 EC
PROPOSED R/W
"ML-2" LINE
"ML-1" 803+15.47 BC
MAGNOLIA St OC (REPLACE)
DE VILLE Cir
SAVOY Cir
HEIL Ave POC (REPLACE)
LANDAU Ln
ROSS Cir
CITY OF HUNTINGTON BEACH
CITY OF WESTMINSTER
PROPOSED R/W
SW No. 819
R/W
"ML-2" 813+78.65 POT
"A" 815+66.44 BC
N39°09'49"W 420.00'
N39°09'49"W 641.43'
"WNL-2" 801+36.04 POT
N44°01'57"W 8326.00'
SB ROUTE 405
"A" LINE
NB ROUTE 405
MATCH LINE STA 826+50 SEE SHEET L-11
MATCH LINE STA 798+50 SEE SHEET L-8
"WNR-2" 804+36.08 POT
N45°10'42"W 300.00'
"MR-2" 804+37.14 EC
"MR-2" 810+90.91 PRC
N44°00'55"W 300.00'
"WNR-2" 801+36.02 EC
"WNR-2" 799+68.14 PRC
"MR-2" 807+31.24 BC
N45°08'41"W 294.10'
"M" 118+06.97 BC
"MR-2" 796+11.65 POT
"MR-2" LINE
S89°42'07"E 151.37'
"MR-2" 797+63.02 BC
"MR-3" LINE
N45°09'39"W 300.06'
ACCESS GATE
"MR-2" 819+52.06 PRC
SW No. 828A
ACCESS GATE
"MR-2" 823+61.53 PRC
"MR-2" 817+15.99 BC
"MR-3" 817+07.09 POT
VENUS Dr
"MR-2" 814+15.99 EC
PROPOSED R/W
"MR-3" 814+07.03 EC
"MR-3" 812+39.88 PCC
"MR-3" 810+63.71 PCC
"MR-3" 808+07.51 PCC
"MR-3" 807+04.15 BC
S9°17'53"W 54.60'
"MR-3" 806+49.55 POT
HEIL Ave
GALAXY Dr
MERCURY Dr
N6°33'25"W 316.41'
"MR-1" LINE
"MR-1" 800+23.48 EC
"MR-1" 803+39.90 BC
"MR-1" 807+02.68 EC
S89°42'07"W 140.28'
"MR-1" 808+42.96 POT
DAISY Ave
"M" 120+71.56 PRC
"M" 123+36.15 EC
N0°17'53"E 1292.14'
"M" LINE
MAGNOLIA St
CITY OF WESTMINSTER
CITY OF FOUNTAIN VALLEY

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-10**

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CURVE DATA

No.	R	Δ	T	L
10	12000.00′	5°14′45"	549.73′	1098.69′
98	12087.00′	1°26′03"	151.27′	302.53′
103	7000.00′	2°39′09"	162.06′	324.07′
104	7000.00′	2°39′09"	162.06′	324.07′
105	7000.00′	2°39′09"	162.06′	324.07′
106	7000.00′	2°39′09"	162.06′	324.07′
107	7000.00′	2°16′16"	138.75′	277.47′
110	3000.00′	3°11′16"	83.47′	166.90′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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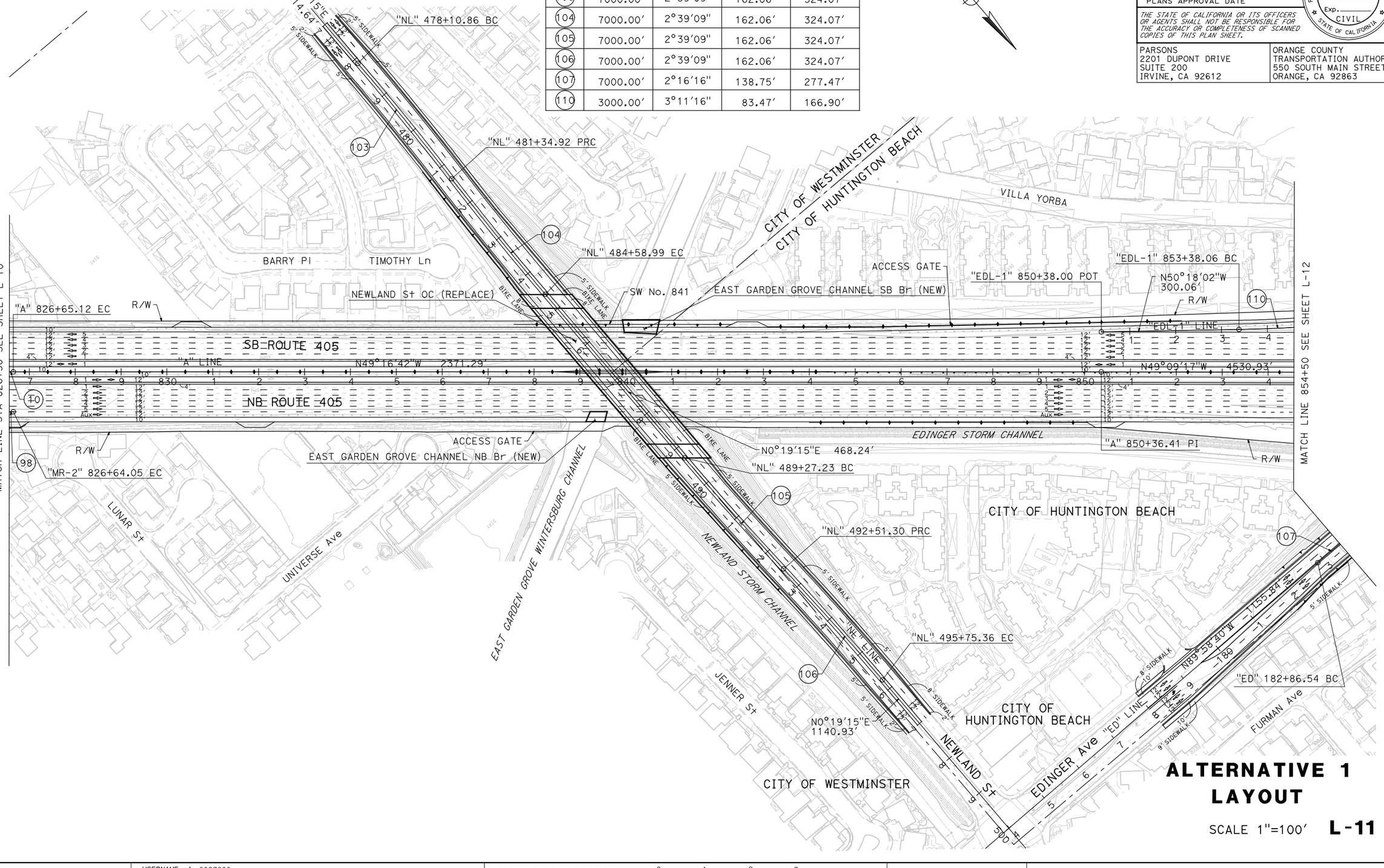

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-11**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
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CURVE DATA

No.	R	Δ	T	L
107	7000.00′	2°16′16"	138.75′	277.47′
108	7000.00′	0°28′51"	29.38′	58.75′
109	7000.00′	1°24′36"	86.13′	172.26′
110	3000.00′	3°11′16"	83.47′	166.90′
111	600.00′	29°08′32"	155.97′	305.18′
112	3000.00′	3°11′29"	83.57′	167.10′
113	3500.00′	4°20′49"	132.83′	265.54′
114	180.00′	75°32′44"	139.49′	237.33′
115	216.00′	89°06′49"	212.68′	335.95′
117	500.00′	36°25′34"	164.52′	317.88′
118	376.00′	66°54′04"	248.40′	439.03′
119	180.00′	205°42′30"	-	646.25′
120	2200.00′	4°26′21"	85.27′	170.45′
121	3000.00′	3°11′29"	83.57′	167.10′
122	1000.00′	21°16′20"	187.80′	371.27′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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Caltrans

MATCH LINE STA 854+50 SEE SHEET L-11

MATCH LINE STA 882+50 SEE SHEET L-14

MATCH LINE SEE SHEET L-13

BEACH Blvd (ROUTE 39)

EDINGER Ave

"ED" LINE

PROPOSED R/W

8' SIDEWALK

TYPE 1 BARRICADE

"EDL-1" 866+57.79 POT

N89°35'11"E 1693.35'

N89°35'11"E 200

CITY OF HUNTINGTON BEACH

R/W

N0°14'21"E 1006.68'

18" LINE

"BL-1" 878+58.00 POT

PROPOSED R/W

"BL-2" 875+86.63 POT

N40°18'40"E 35.11'

"BL-2" 876+21.74 BC

CENTER Ave

R/W

S55°18'35"W 140.12'

"BL-1" 877+17.88 EC

S39/S405 Conn Sep (NEW)

"BL-1" 874+80.55 BC

N49°08'41"W 573.77'

"BL-2" 879+57.69 EC

N48°48'09"W 372.55'

"BL-2" LINE

6 TIE BACK WALL No. 2300

N82°37'49"W 518.06'

CITY OF WESTMINSTER

"EDL-1" 861+39.73 EC

"ED" 194+23.41 EC

"BL-1" 866+41.24 BC

"ED" 192+51.15 BC

"BL-1" 864+60.87 EC

"BL-1" 869+06.78 EC

"EDL-1" 858+34.55 BC

"EDL-1" 855+04.96 EC

SW No. 857

"EDL-1" LINE

N53°29'17"W 329.59'

5' SIDEWALK

BIKE LANE

"BL-1" LINE

"BL-1" 862+93.78 BC

N50°18'02"W 300.06'

N53°29'30"W 180.37'

"A" LINE

SB ROUTE 405

N49°09'17"W 4530.93'

NB ROUTE 405

"BE-1" 859+93.72 POT

"BR-2" 873+74.33 BC

N53°29'30"W 222.24'

"BR-2" LINE

"BR-2" 875+81.64 BC

"BR-2" 877+52.09 EC

N49°03'09"W 263.99'

"BR-2" 864+45.39 POT

"BR-3" LINE

"BR-3" 880+77.66 BC

N74°45'39"W 297.30'

"BR-3" 877+80.36 POT

TIE BACK WALL No. 2200

"BR-2" 873+17.64 EC

N39/N405 Conn Sep (NEW)

S74°45'39"E 226.00'

"BR-2" 866+71.39 BC

N88°11'15"W 628.39'

EDINGER Ave OC (REPLACE)

N44°17'09"W 428.78'

"BR-1" 862+47.55 POT

"BR-1" 866+76.34 BC

"ED" 186+22.76 EC

"ED" 185+64.01 PRC

"BR-1" 869+94.22 EC

N7°51'35"W 263.42'

"BR-1" 872+57.64 BC

"BR-1" 876+96.67 EC

N74°45'39"W 199.14'

"BR-1" 878+95.81 POT

ROCKVIEW Cir

MONROE St

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-12**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

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12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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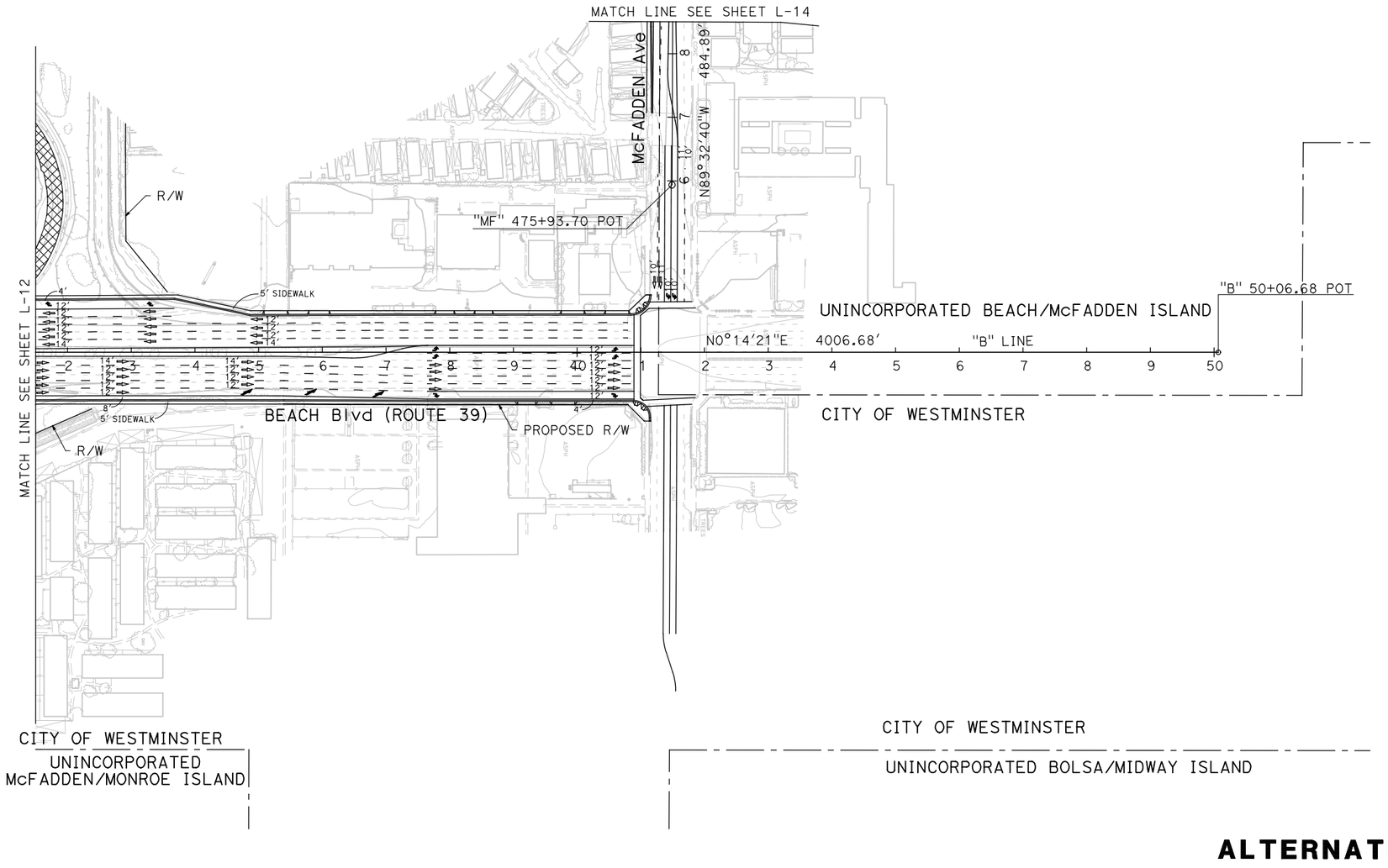
550 SOUTH MAIN STREET
ORANGE, CA 92863



ALTERNATIVE 1
LAYOUT

SCALE 1"=100' **L-13**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
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LAST REVISION 00-00-00
DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:47:38 PM

BORDER LAST REVISED 7/2/2010
USERNAME => p0027660
DGN FILE => ALT 1 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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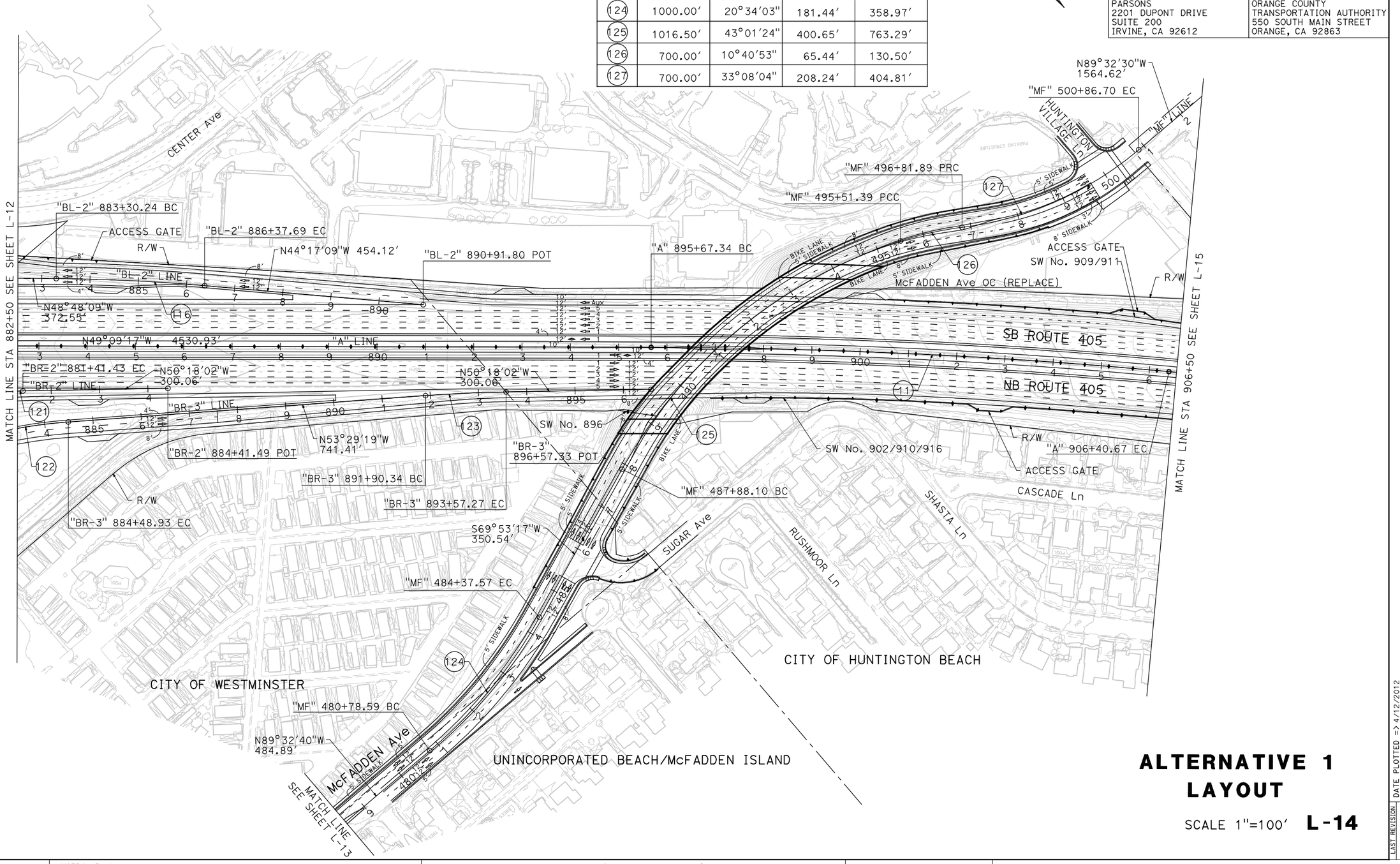
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
11	12000.00′	5°07′29"	537.02′	1073.33′
116	3900.00′	4°31′00"	153.80′	307.44′
121	3000.00′	3°11′29"	83.57′	167.10′
122	1000.00′	21°16′20"	187.80′	371.27′
123	3000.00′	3°11′17"	83.49′	166.93′
124	1000.00′	20°34′03"	181.44′	358.97′
125	1016.50′	43°01′24"	400.65′	763.29′
126	700.00′	10°40′53"	65.44′	130.50′
127	700.00′	33°08′04"	208.24′	404.81′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-14**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CONSULTANT FUNCTIONAL SUPERVISOR

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DATE PLOTTED => 4/12/2012
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BORDER LAST REVISED 7/2/2010

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DGN FILE => ALT 1 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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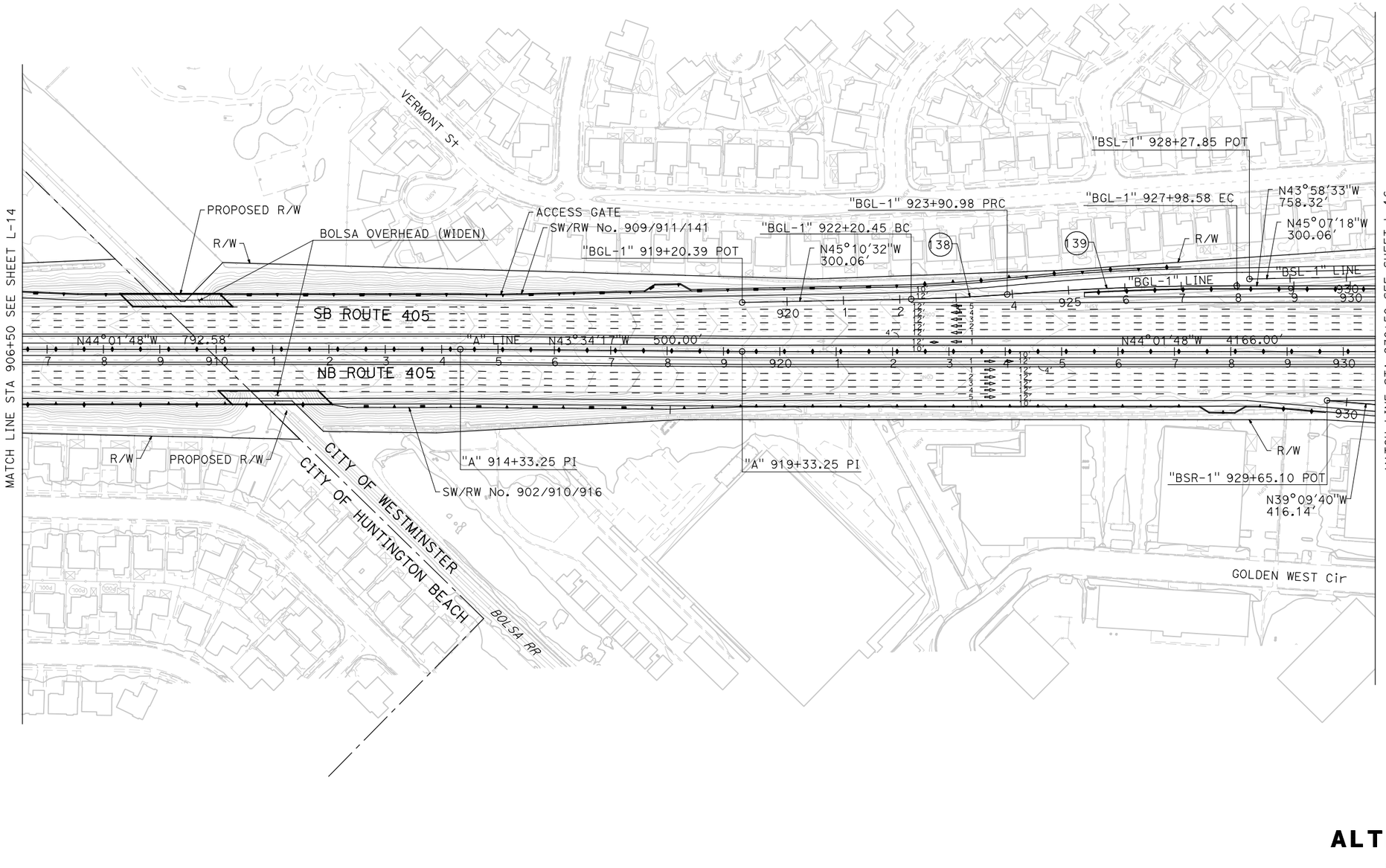
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
138	3000.00′	3°15′25"	85.29′	170.53′
139	5240.00′	4°27′25"	203.90′	407.60′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-15**

REVISED BY	DATE REVISED
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DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:47:47 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 | DGN FILE => ALT 1 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

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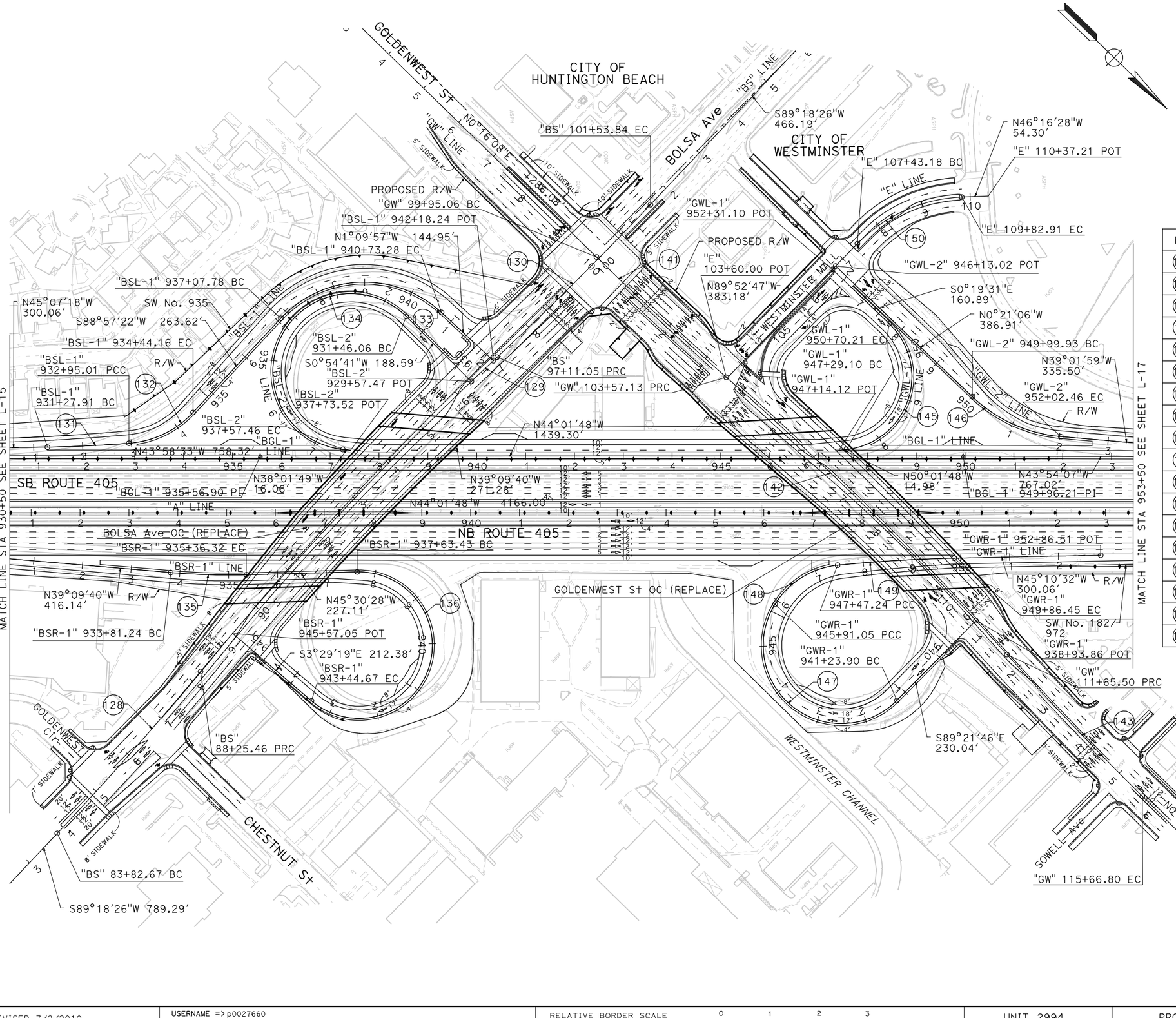

CURVE DATA

No.	R	Δ	T	L
128	7000.00′	3°37′28"	221.47′	442.79′
129	7000.00′	7°14′55"	443.38′	885.59′
130	7000.00′	3°37′28"	221.47′	442.79′
131	3000.00′	3°11′29"	83.57′	167.10′
132	200.00′	42°43′50"	78.24′	149.16′
133	233.00′	89°52′40"	232.50′	365.50′
134	160.00′	218°56′29"	-	611.40′
135	1400.00′	6°20′48"	77.62′	155.08′
136	150.00′	222°01′09"	-	581.24′
141	7000.00′	2°57′49"	181.07′	362.07′
142	7000.00′	6°37′00"	404.63′	808.37′
143	7000.00′	3°17′05"	200.71′	401.30′
145	150.00′	130°17′43"	323.85′	341.11′
146	300.00′	38°40′53"	105.30′	202.53′
147	160.00′	167°17′09"	1436.16′	467.15′
148	171.00′	52°19′57"	84.02′	156.19′
149	3000.00′	4°34′07"	119.67′	239.21′
150	315.00′	43°36′18"	126.01′	239.73′

ALTERNATIVE 1
LAYOUT

SCALE 1"=100′ **L-16**

LAST REVISION 00-00-00 | DATE PLOTTED => 4/12/2012 | TIME PLOTTED => 4:47:52 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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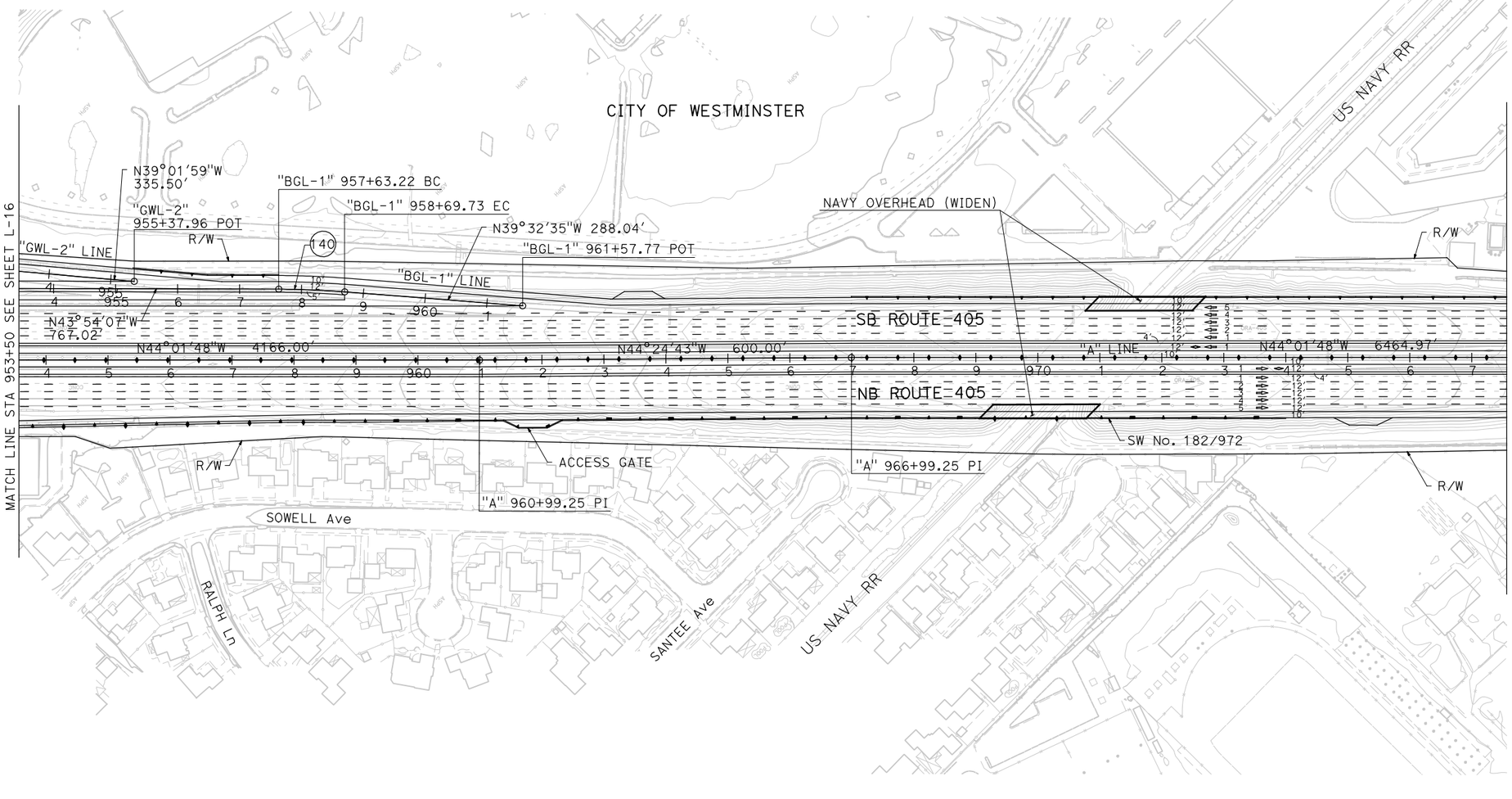
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
140	1400.00′	4°21′32"	53.28′	106.50′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-17**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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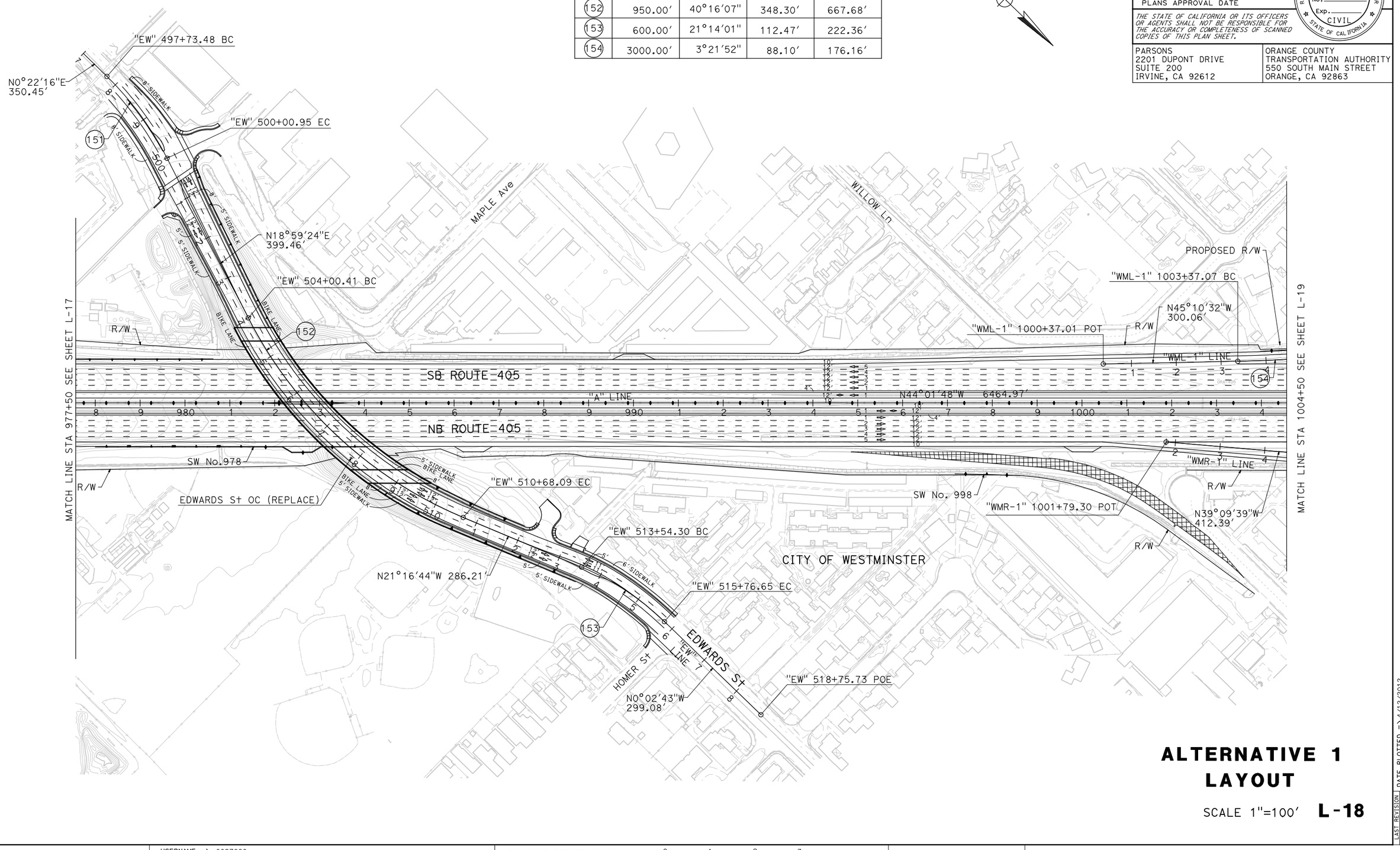
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
151	700.00′	18°37′07"	114.75′	227.47′
152	950.00′	40°16′07"	348.30′	667.68′
153	600.00′	21°14′01"	112.47′	222.36′
154	3000.00′	3°21′52"	88.10′	176.16′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-18**

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00-00-00 TIME PLOTTED => 4:48:01 PM

BORDER LAST REVISED 7/2/2010

USERNAME => p0027660
DGN FILE => ALT 1 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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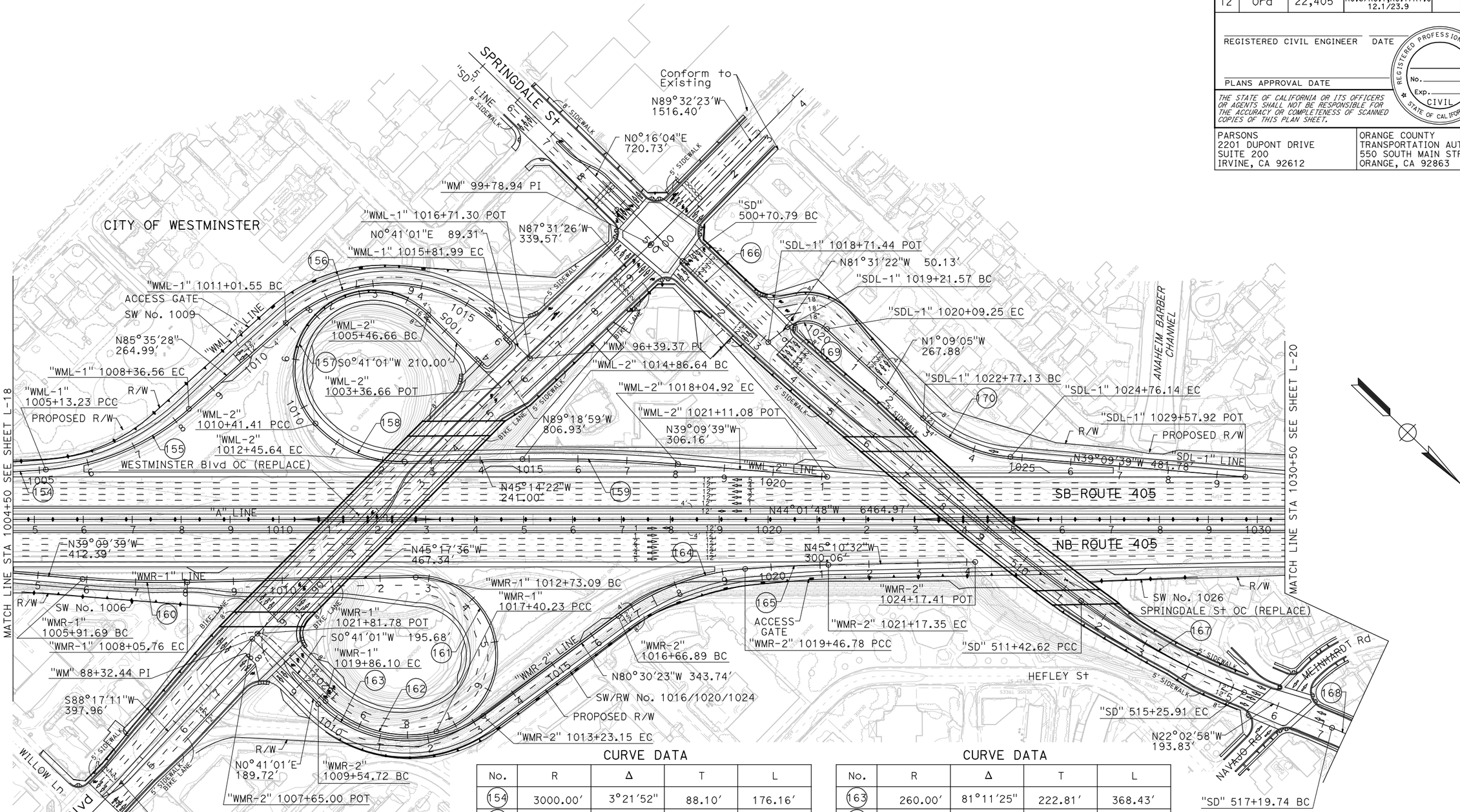

CURVE DATA

No.	R	Δ	T	L
154	3000.00′	3°21′52"	88.10′	176.16′
155	500.00′	37°03′04"	167.55′	323.33′
156	317.00′	86°50′14"	299.97′	480.44′
157	160.00′	177°10′04"	6472.14′	494.75′
158	240.00′	48°45′20"	108.76′	204.23′
159	3000.00′	6°04′43"	159.29′	318.28′
160	2000.00′	6°07′57"	107.13′	214.06′
161	160.00′	167°16′48"	1435.47′	467.13′
162	240.00′	58°41′50"	134.95′	245.87′

CURVE DATA

No.	R	Δ	T	L
163	260.00′	81°11′25"	222.81′	368.43′
164	500.00′	32°04′23"	143.72′	279.89′
165	3000.00′	3°15′27"	85.31′	170.57′
166	8000.00′	7°40′35"	536.72′	1071.83′
167	1500.00′	14°38′27"	192.70′	383.30′
168	600.00′	23°42′12"	125.91′	248.22′
169	62.50′	80°22′18"	52.79′	87.67′
170	300.00′	38°00′34"	103.33′	199.02′

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-19**

LAST REVISION 00-00-00 | DATE PLOTTED => 4/12/2012 | TIME PLOTTED => 4:48:07 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 | DGN FILE => ALT 1 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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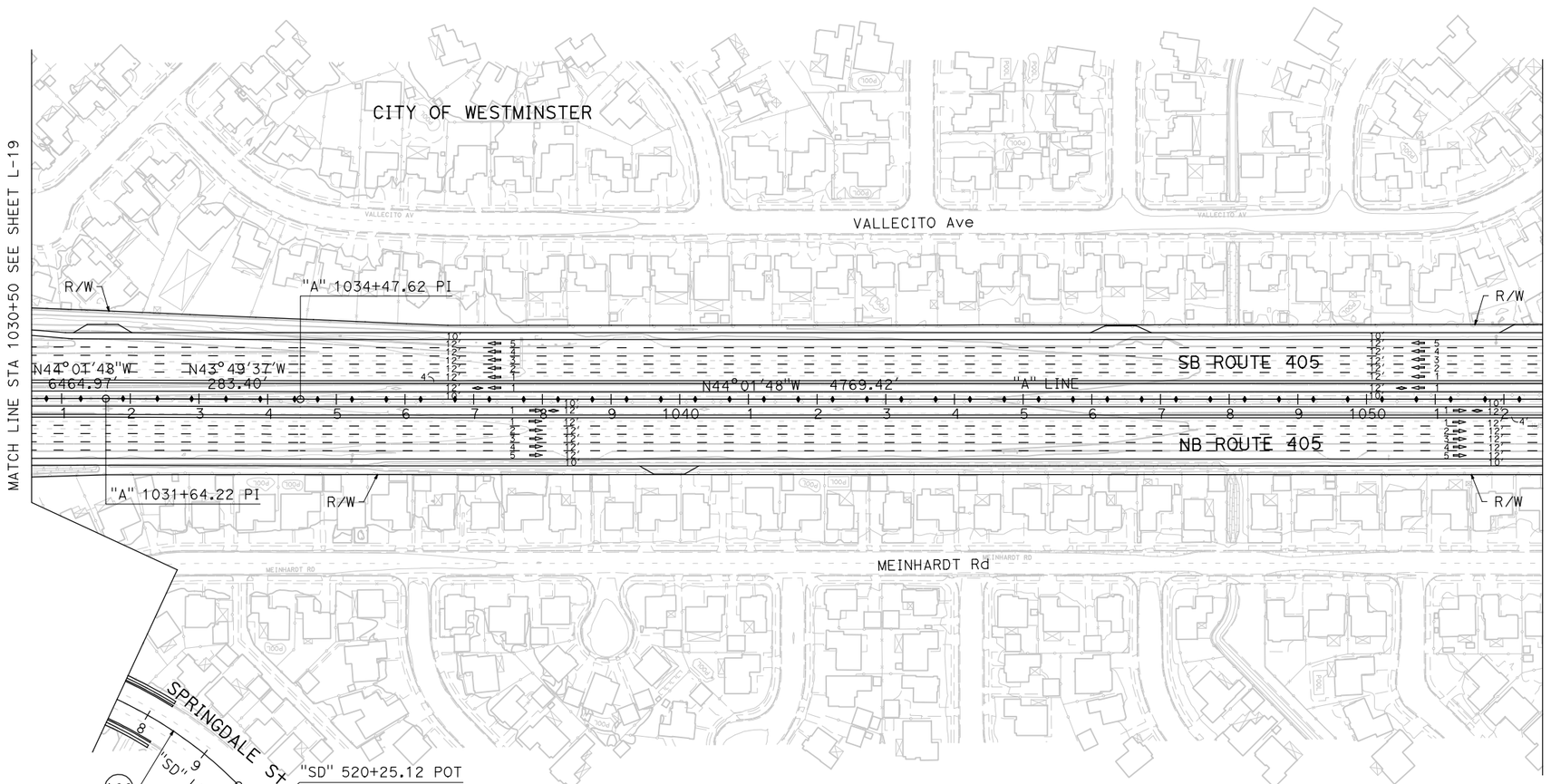
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
168	600.00′	23°42′12"	125.91′	248.22′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-20**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
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DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:48:15 PM

BORDER LAST REVISED 7/2/2010
USERNAME => p0027660
DGN FILE => ALT 1 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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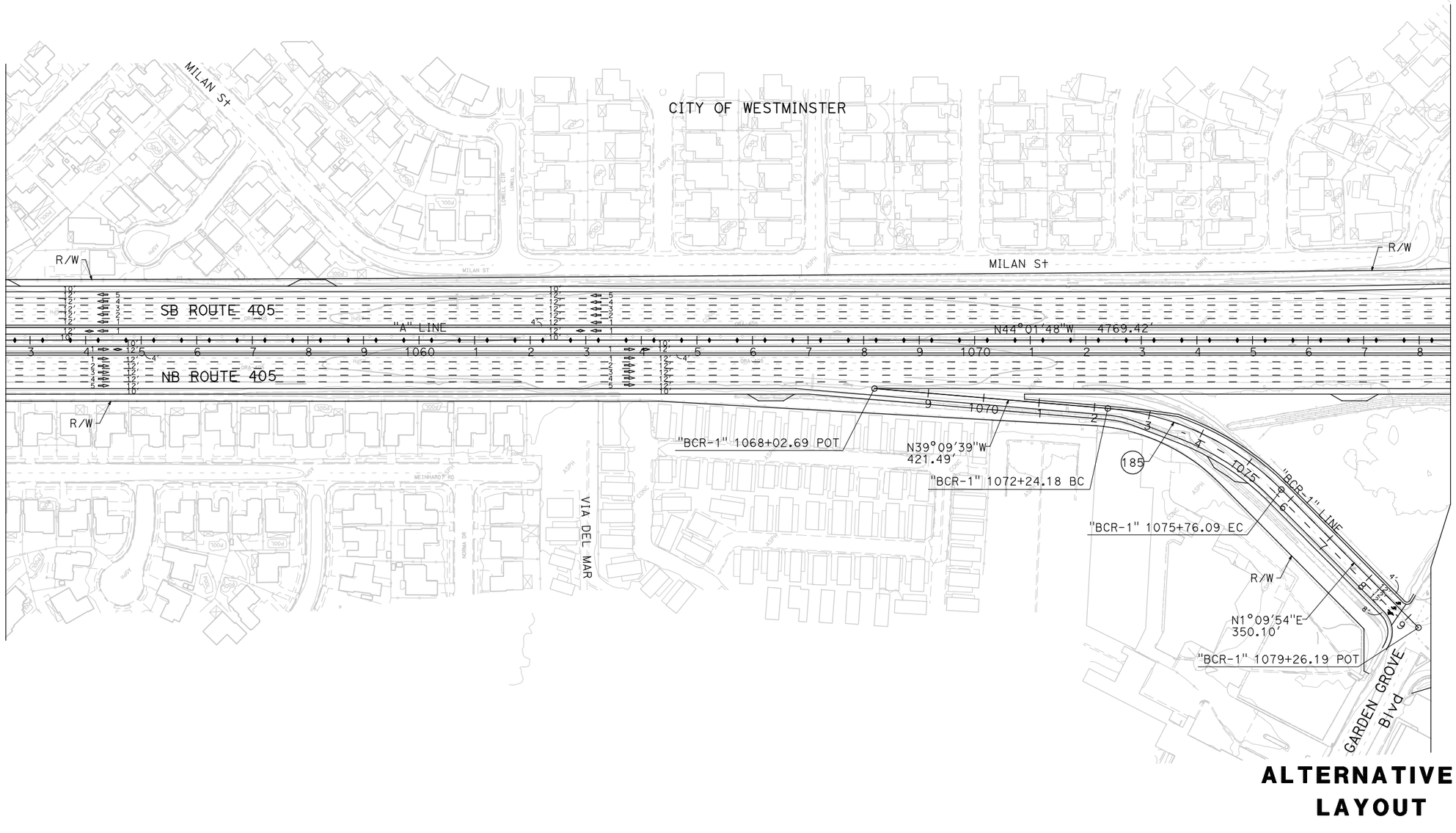
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
185	500.00′	40°19′33"	183.60′	351.91′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-21**

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BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 DGN FILE => ALT 1 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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ORANGE, CA 92863

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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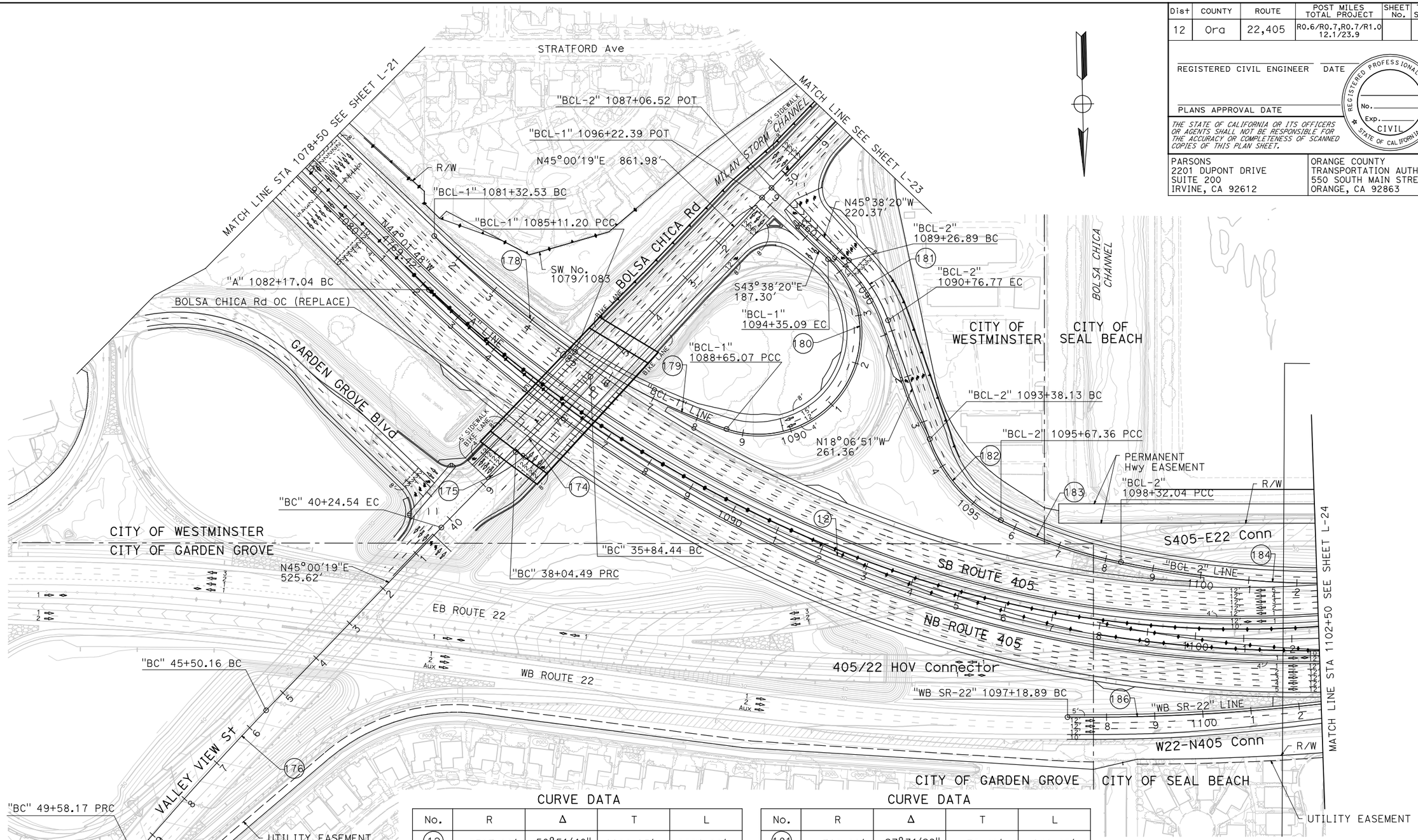

CURVE DATA

No.	R	Δ	T	L
12	2503.00′	50°51′40"	1190.15′	2221.90′
174	7000.00′	1°48′04"	110.03′	220.05′
175	7000.00′	1°48′04"	110.03′	220.05′
176	7000.00′	3°20′23"	204.06′	408.01′
177	7000.00′	3°20′52"	204.56′	409.00′
178	2624.00′	8°16′06"	189.66′	378.67′
179	1216.00′	16°40′27"	178.20′	353.88′
180	210.00′	155°31′15"	968.05′	570.01′

CURVE DATA

No.	R	Δ	T	L
181	312.00′	27°31′29"	76.42′	149.88′
182	300.00′	43°46′49"	120.54′	229.23′
183	1000.00′	15°09′53"	133.12′	264.67′
184	2124.00′	12°01′17"	223.64′	445.64′
186	4350.68′	8°28′55"	322.62′	644.06′

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-22**

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BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 | DGN FILE => ALT 1 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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ORANGE COUNTY
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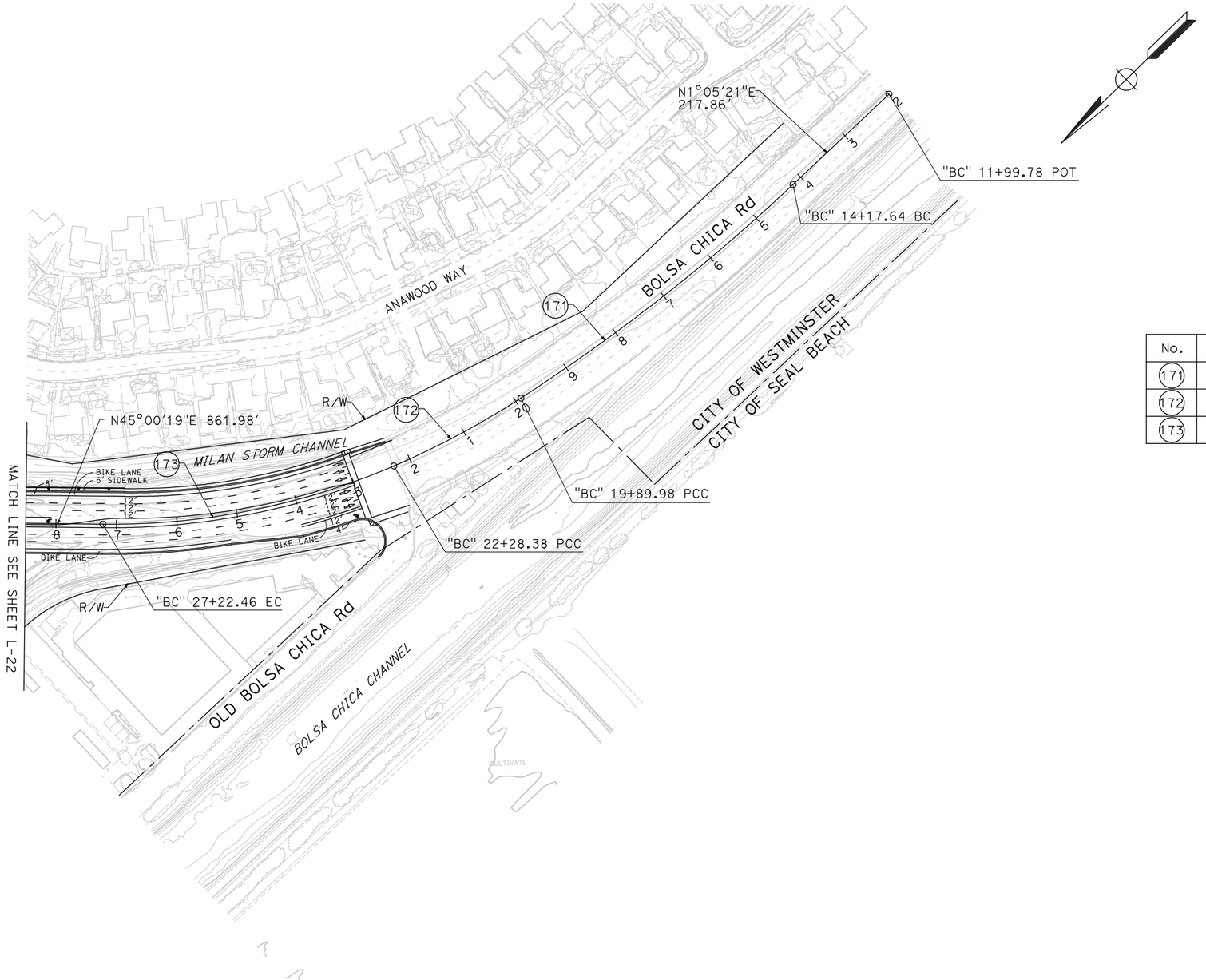
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
171	3178.45′	10°19′02"	286.94′	572.34′
172	1412.63′	9°40′09"	119.48′	238.40′
173	1183.00′	23°55′47"	250.70′	494.08′

ALTERNATIVE 1
LAYOUT

SCALE 1"=100′ **L-23**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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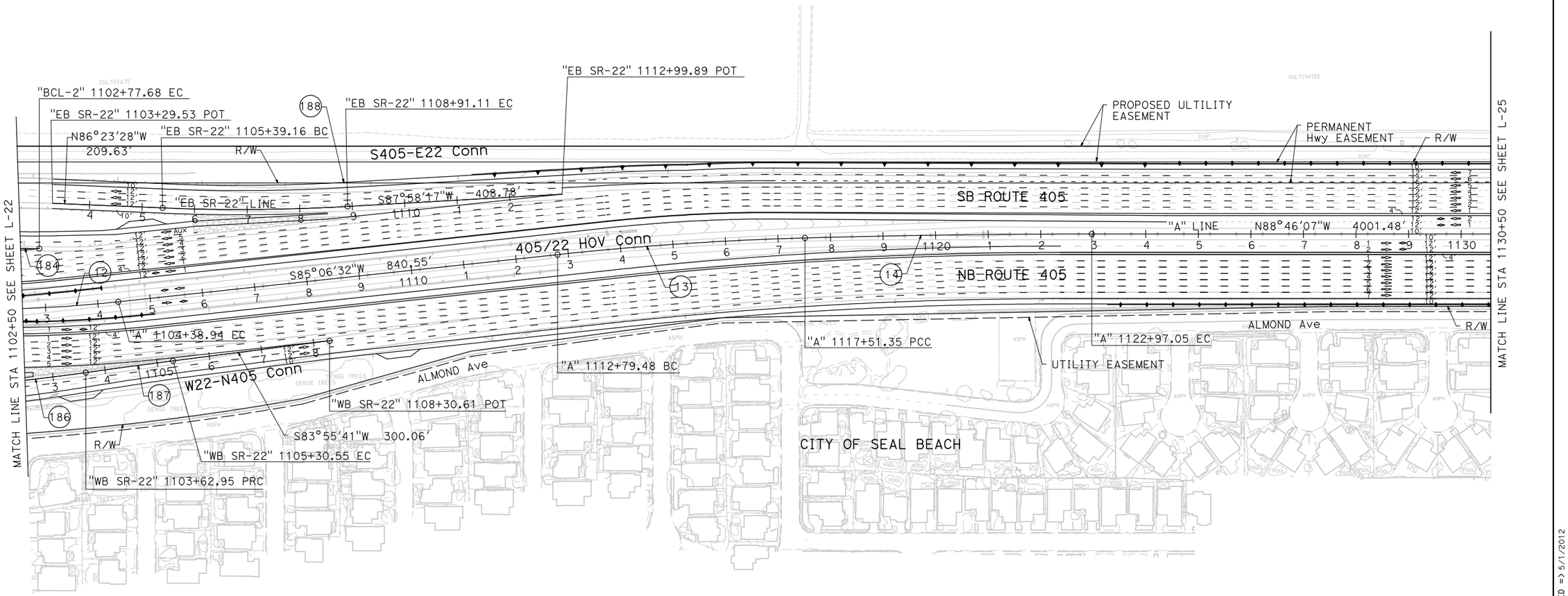
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
12	2503.00′	50°51′40"	1190.15′	2221.90′
13	5930.00′	4°33′33"	236.06′	471.87′
14	20000.00′	1°33′48"	272.86′	545.69′
184	2124.00′	12°01′17"	223.64′	445.64′
186	4350.68′	8°28′55"	322.62′	644.06′
187	14265.84′	0°40′23"	83.80′	167.60′
188	3577.00′	5°38′15"	176.12′	351.95′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-24**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/1/2012 TIME PLOTTED => 9:35:54 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 DGN FILE => ALT 1 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
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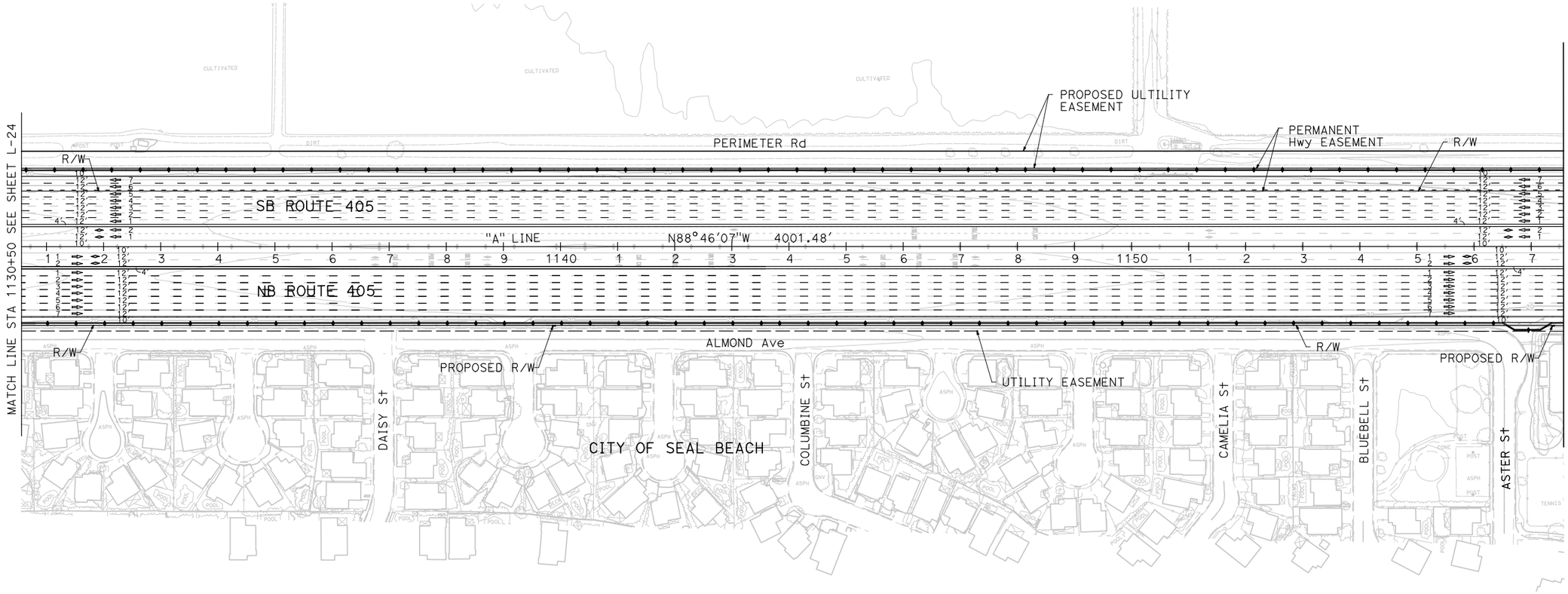
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



ALTERNATIVE 1 LAYOUT

SCALE 1"=100' **L-25**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 4/12/2012
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BORDER LAST REVISED 7/2/2010
USERNAME => p0027660
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
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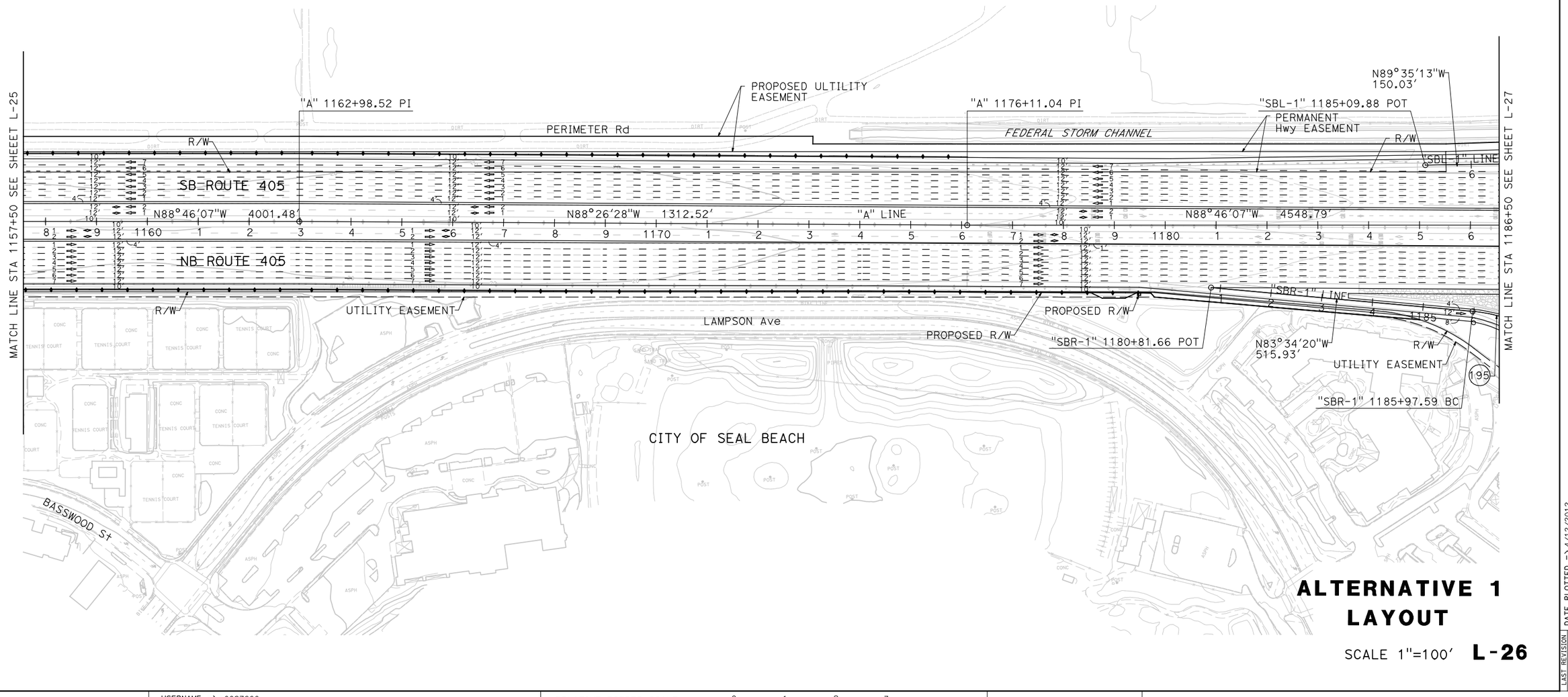

ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-26**

REVISED BY | DATE REVISED

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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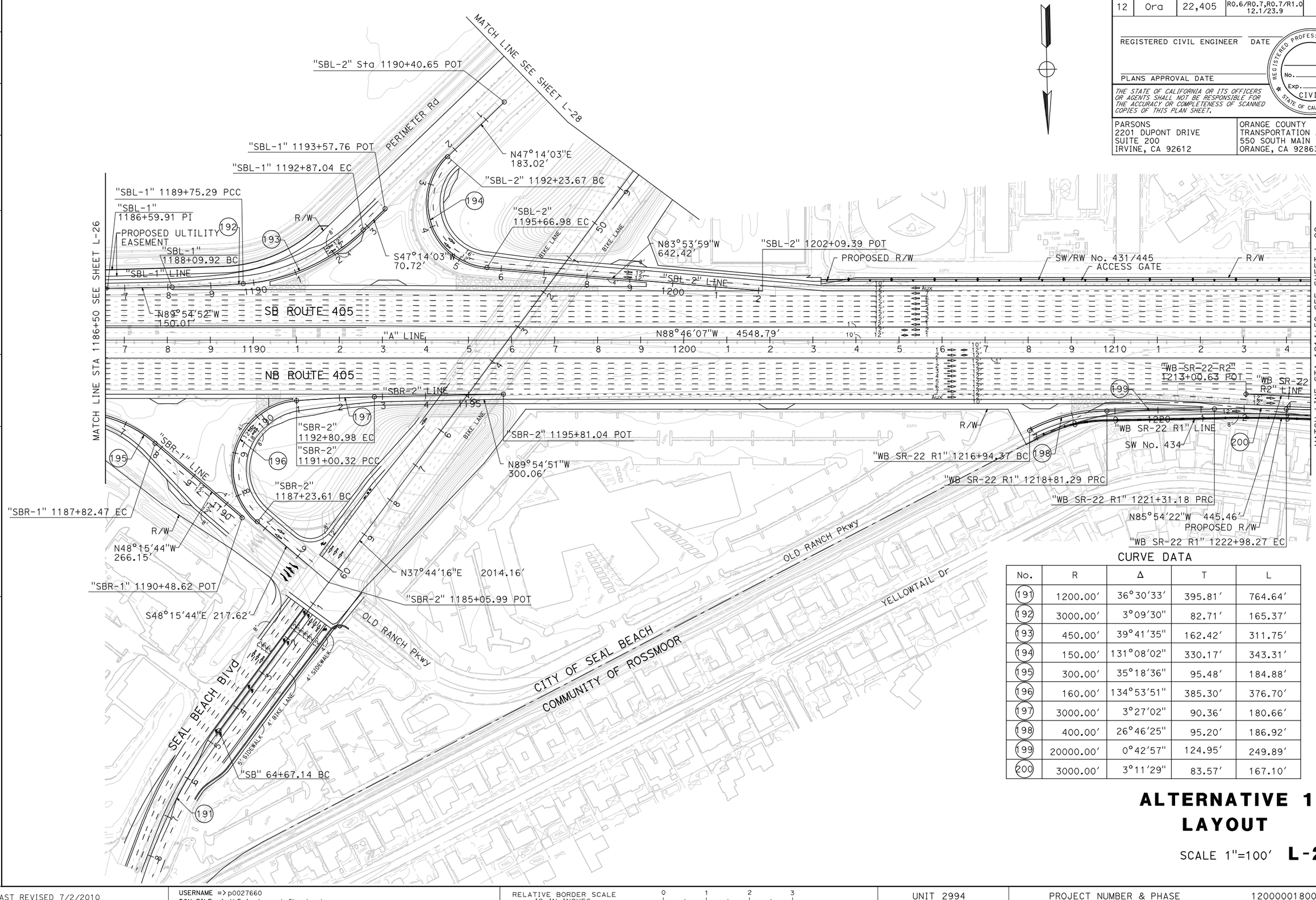

CURVE DATA

No.	R	Δ	T	L
191	1200.00′	36°30′33′	395.81′	764.64′
192	3000.00′	3°09′30"	82.71′	165.37′
193	450.00′	39°41′35"	162.42′	311.75′
194	150.00′	131°08′02"	330.17′	343.31′
195	300.00′	35°18′36"	95.48′	184.88′
196	160.00′	134°53′51"	385.30′	376.70′
197	3000.00′	3°27′02"	90.36′	180.66′
198	400.00′	26°46′25"	95.20′	186.92′
199	20000.00′	0°42′57"	124.95′	249.89′
200	3000.00′	3°11′29"	83.57′	167.10′

ALTERNATIVE 1
LAYOUT

SCALE 1"=100′ **L-27**

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TIME PLOTTED => 4:48:57 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
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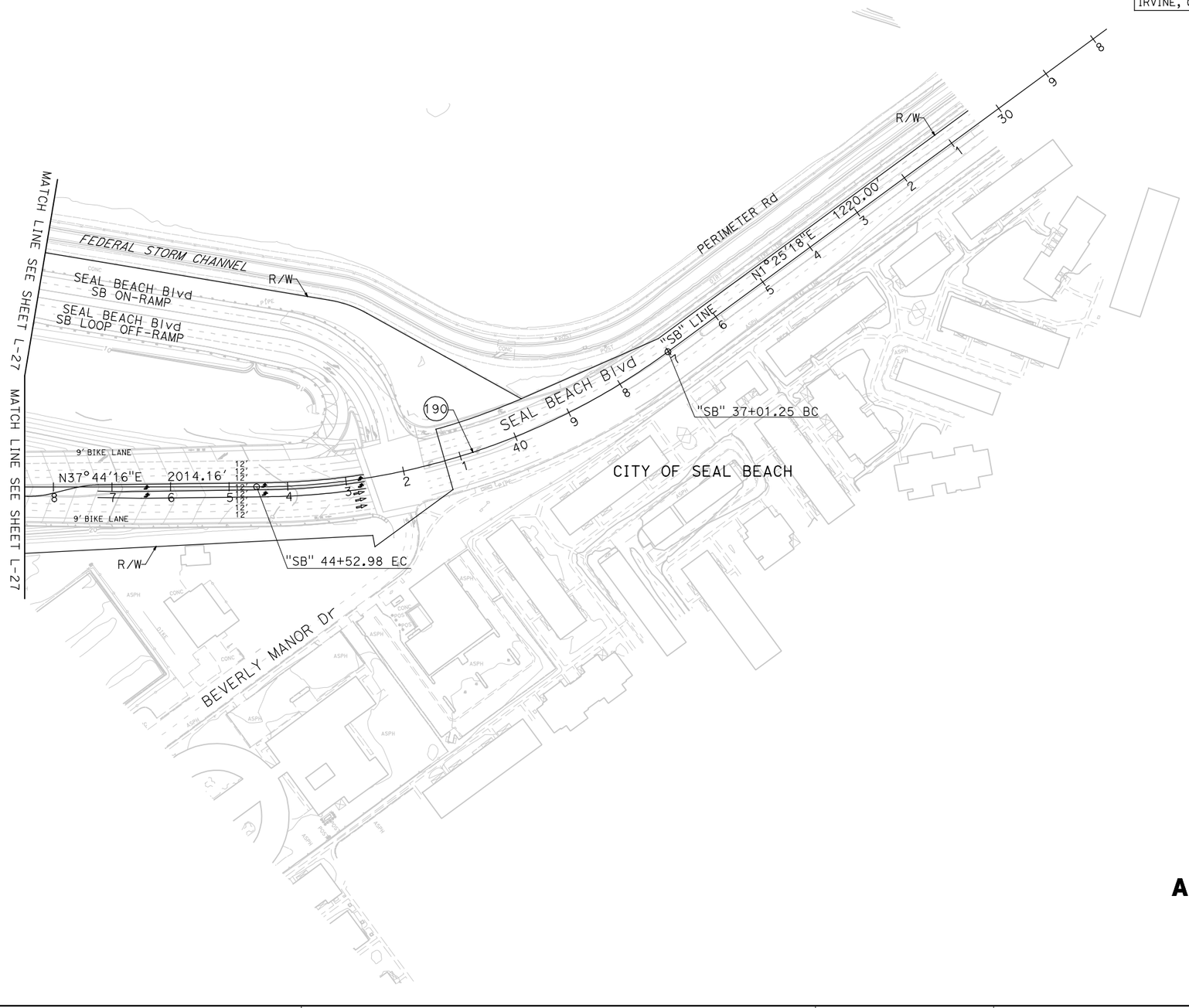

ALTERNATIVE 1
LAYOUT

SCALE 1"=100′ **L-28**

LAST REVISION 00-00-00
DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:49:05 PM

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USERNAME => p0027660
DGN FILE => ALT 1 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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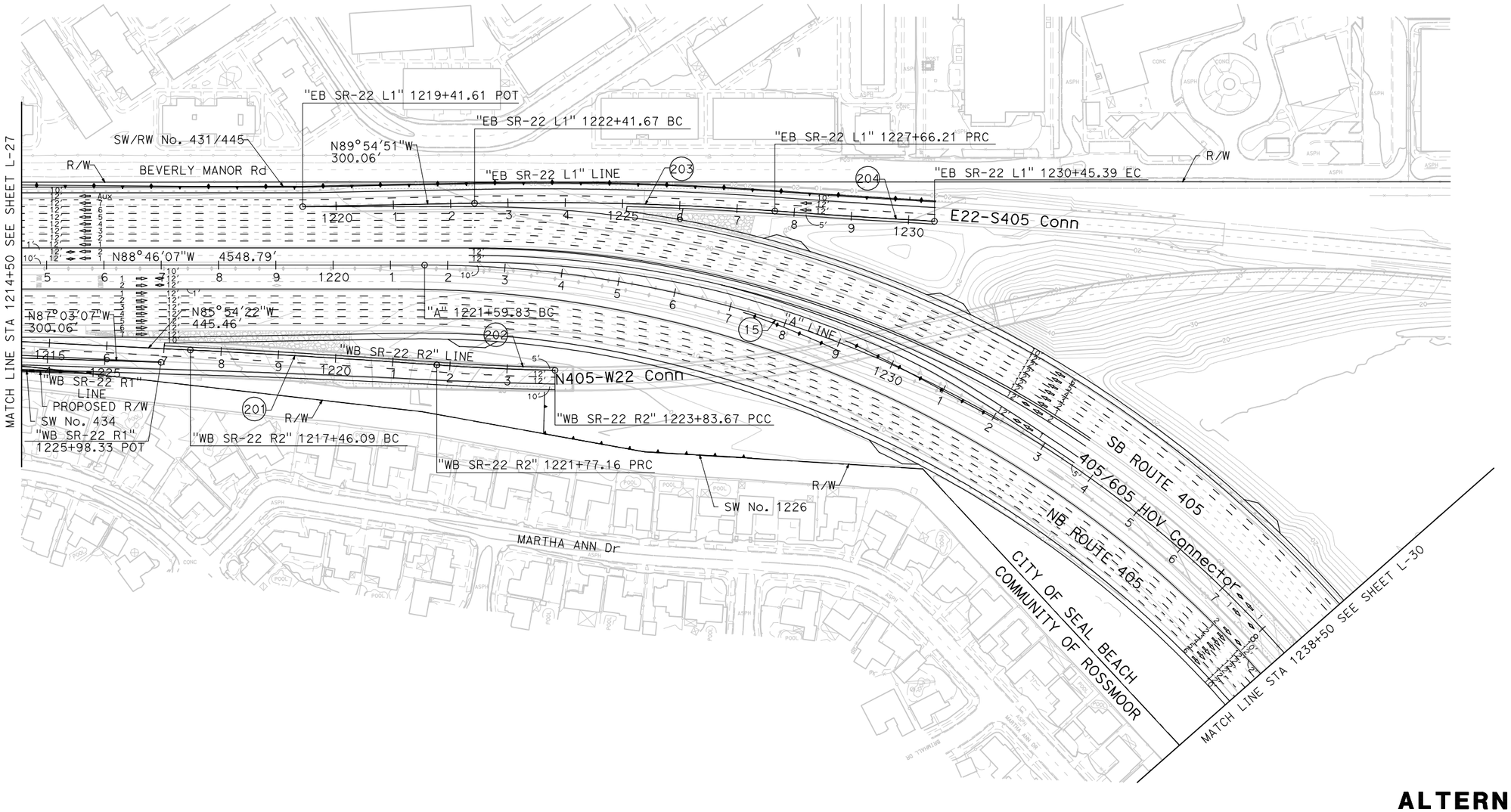
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
15	2000.00′	58°25′06"	1118.18′	2039.19′
201	20000.00′	1°14′06"	215.54′	431.07′
202	3967.24′	2°58′57"	103.28′	206.51′
203	5720.87′	5°15′12"	262.45′	524.54′
204	20000.00′	0°47′59"	139.60′	279.19′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-29**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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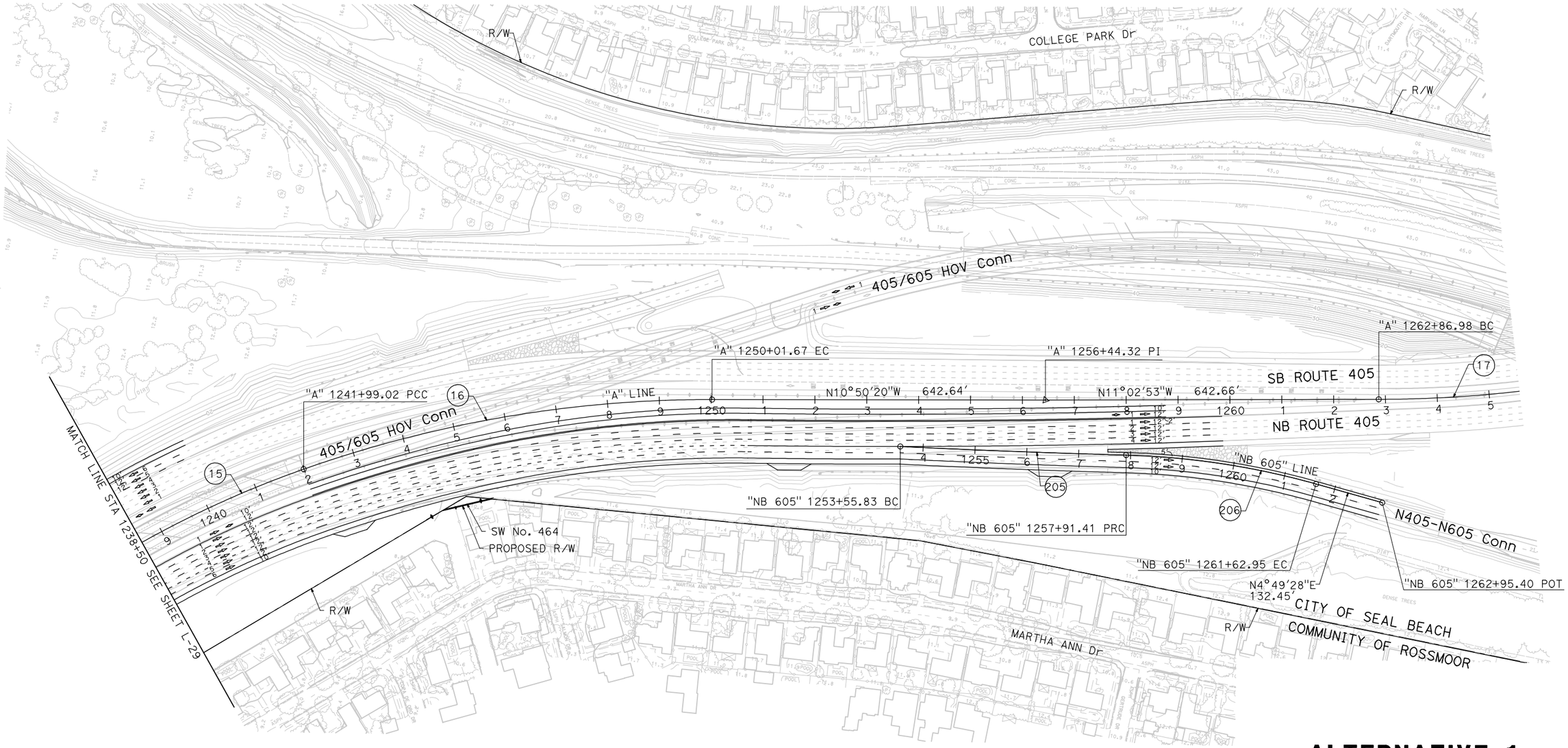
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
15	2000.00′	58°25′06"	1118.18′	2039.19′
16	2357.00′	19°30′42"	405.25′	802.65′
17	2400.00′	36°15′41"	785.86′	1518.91′
205	20062.00′	1°14′38"	217.80′	435.58′
206	1500.00′	14°11′30"	186.72′	371.54′



ALTERNATIVE 1 LAYOUT

SCALE 1"=100′ **L-30**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

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P2: Alternative 2 Project Plans

INDEX OF PLANS

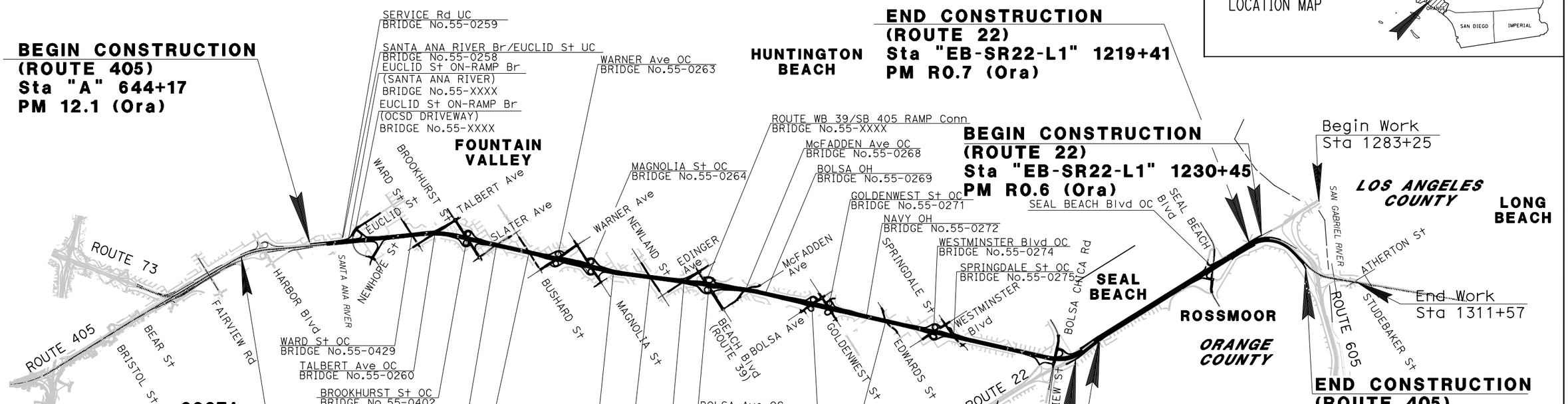
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES AND ORANGE COUNTIES
IN COSTA MESA, FOUNTAIN VALLEY, WESTMINSTER, HUNTINGTON BEACH, GARDEN GROVE, SEAL BEACH, ROSSMOOR, AND LONG BEACH
ON ROUTE 22 FROM ROUTE 405 TO 0.3 MILE WEST OF VALLEY VIEW STREET OVERCROSSING
ON ROUTE 22 FROM 0.1 MILE WEST OF ROUTE 605 TO ROUTE 405
ON ROUTE 405 FROM 0.5 MILE SOUTH OF EUCLID STREET UNDERCROSSING TO 0.2 MILE SOUTH OF 405/605 SEPERATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CONSULTANT DESIGN ENGINEER | REGISTRATION No. | LICENSE Exp DATE | DATE SIGNED

CALTRANS DESIGN OVERSIGHT APPROVAL

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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

PROJECT REPORT PLANS FOR ALTERNATIVE 2

NO SCALE

PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
CONTRACT No.	12-0H1000
PROJECT ID	12000001800

LAST REVISION 00-00-00
DATE PLOTTED => 9/30/2014
TIME PLOTTED => 6:12:45 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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550 SOUTH MAIN STREET
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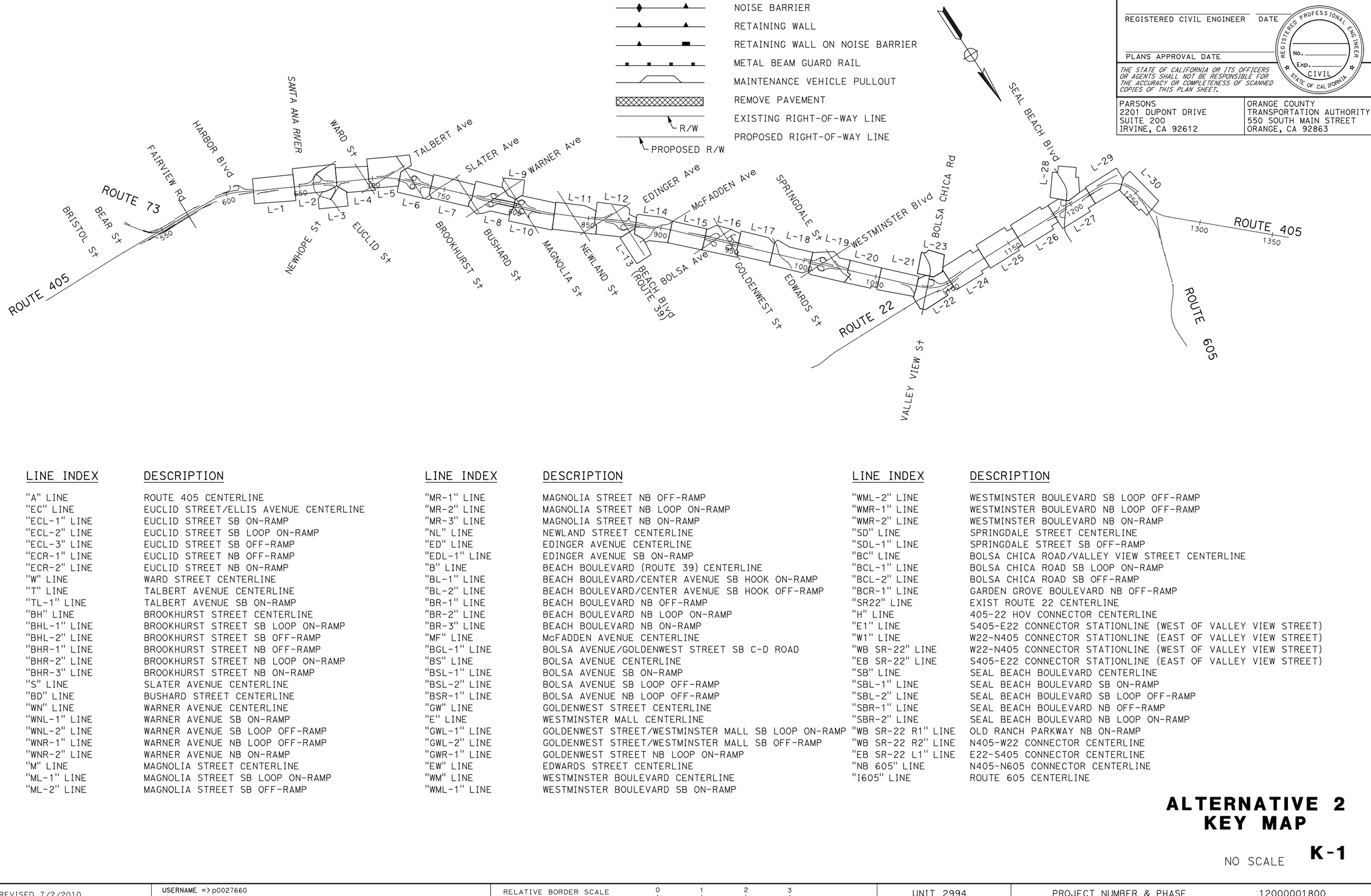
LEGEND

- CONCRETE BARRIER
- NOISE BARRIER
- RETAINING WALL
- RETAINING WALL ON NOISE BARRIER
- METAL BEAM GUARD RAIL
- MAINTENANCE VEHICLE PULLOUT
- REMOVE PAVEMENT
- EXISTING RIGHT-OF-WAY LINE (R/W)
- PROPOSED RIGHT-OF-WAY LINE (PROPOSED R/W)



LINE INDEX	DESCRIPTION
"A" LINE	ROUTE 405 CENTERLINE
"EC" LINE	EUCLID STREET/ELLIS AVENUE CENTERLINE
"ECL-1" LINE	EUCLID STREET SB ON-RAMP
"ECL-2" LINE	EUCLID STREET SB LOOP ON-RAMP
"ECL-3" LINE	EUCLID STREET SB OFF-RAMP
"ECR-1" LINE	EUCLID STREET NB OFF-RAMP
"ECR-2" LINE	EUCLID STREET NB ON-RAMP
"W" LINE	WARD STREET CENTERLINE
"T" LINE	TALBERT AVENUE CENTERLINE
"TL-1" LINE	TALBERT AVENUE SB ON-RAMP
"BH" LINE	BROOKHURST STREET CENTERLINE
"BHL-1" LINE	BROOKHURST STREET SB LOOP ON-RAMP
"BHL-2" LINE	BROOKHURST STREET SB OFF-RAMP
"BHR-1" LINE	BROOKHURST STREET NB OFF-RAMP
"BHR-2" LINE	BROOKHURST STREET NB LOOP ON-RAMP
"BHR-3" LINE	BROOKHURST STREET NB ON-RAMP
"S" LINE	SLATER AVENUE CENTERLINE
"BD" LINE	BUSHARD STREET CENTERLINE
"WN" LINE	WARNER AVENUE CENTERLINE
"WNL-1" LINE	WARNER AVENUE SB ON-RAMP
"WNL-2" LINE	WARNER AVENUE SB LOOP OFF-RAMP
"WNR-1" LINE	WARNER AVENUE NB LOOP OFF-RAMP
"WNR-2" LINE	WARNER AVENUE NB ON-RAMP
"M" LINE	MAGNOLIA STREET CENTERLINE
"ML-1" LINE	MAGNOLIA STREET SB LOOP ON-RAMP
"ML-2" LINE	MAGNOLIA STREET SB OFF-RAMP

LINE INDEX	DESCRIPTION
"MR-1" LINE	MAGNOLIA STREET NB OFF-RAMP
"MR-2" LINE	MAGNOLIA STREET NB LOOP ON-RAMP
"MR-3" LINE	MAGNOLIA STREET NB ON-RAMP
"NL" LINE	NEWLAND STREET CENTERLINE
"ED" LINE	EDINGER AVENUE CENTERLINE
"EDL-1" LINE	EDINGER AVENUE SB ON-RAMP
"B" LINE	BEACH BOULEVARD (ROUTE 39) CENTERLINE
"BL-1" LINE	BEACH BOULEVARD/CENTER AVENUE SB HOOK ON-RAMP
"BL-2" LINE	BEACH BOULEVARD/CENTER AVENUE SB HOOK OFF-RAMP
"BR-1" LINE	BEACH BOULEVARD NB OFF-RAMP
"BR-2" LINE	BEACH BOULEVARD NB LOOP ON-RAMP
"BR-3" LINE	BEACH BOULEVARD NB ON-RAMP
"MF" LINE	McFADDEN AVENUE CENTERLINE
"BGL-1" LINE	BOLSA AVENUE/GOLDENWEST STREET SB C-D ROAD
"BS" LINE	BOLSA AVENUE CENTERLINE
"BSL-1" LINE	BOLSA AVENUE SB ON-RAMP
"BSL-2" LINE	BOLSA AVENUE SB LOOP OFF-RAMP
"BSR-1" LINE	BOLSA AVENUE NB LOOP OFF-RAMP
"GW" LINE	GOLDENWEST STREET CENTERLINE
"E" LINE	WESTMINSTER MALL CENTERLINE
"GWL-1" LINE	GOLDENWEST STREET/WESTMINSTER MALL SB LOOP ON-RAMP
"GWL-2" LINE	GOLDENWEST STREET/WESTMINSTER MALL SB OFF-RAMP
"GWR-1" LINE	GOLDENWEST STREET NB LOOP ON-RAMP
"EW" LINE	EDWARDS STREET CENTERLINE
"WM" LINE	WESTMINSTER BOULEVARD CENTERLINE
"WML-1" LINE	WESTMINSTER BOULEVARD SB ON-RAMP

LINE INDEX	DESCRIPTION
"WML-2" LINE	WESTMINSTER BOULEVARD SB LOOP OFF-RAMP
"WMR-1" LINE	WESTMINSTER BOULEVARD NB LOOP OFF-RAMP
"WMR-2" LINE	WESTMINSTER BOULEVARD NB ON-RAMP
"SD" LINE	SPRINGDALE STREET CENTERLINE
"SDL-1" LINE	SPRINGDALE STREET SB OFF-RAMP
"BC" LINE	BOLSA CHICA ROAD/VALLEY VIEW STREET CENTERLINE
"BCL-1" LINE	BOLSA CHICA ROAD SB LOOP ON-RAMP
"BCL-2" LINE	BOLSA CHICA ROAD SB OFF-RAMP
"BCR-1" LINE	GARDEN GROVE BOULEVARD NB OFF-RAMP
"SR22" LINE	EXIST ROUTE 22 CENTERLINE
"H" LINE	405-22 HOV CONNECTOR CENTERLINE
"E1" LINE	S405-E22 CONNECTOR STATIONLINE (WEST OF VALLEY VIEW STREET)
"W1" LINE	W22-N405 CONNECTOR STATIONLINE (EAST OF VALLEY VIEW STREET)
"WB SR-22" LINE	W22-N405 CONNECTOR STATIONLINE (WEST OF VALLEY VIEW STREET)
"EB SR-22" LINE	S405-E22 CONNECTOR STATIONLINE (EAST OF VALLEY VIEW STREET)
"SB" LINE	SEAL BEACH BOULEVARD CENTERLINE
"SBL-1" LINE	SEAL BEACH BOULEVARD SB ON-RAMP
"SBL-2" LINE	SEAL BEACH BOULEVARD SB LOOP OFF-RAMP
"SBR-1" LINE	SEAL BEACH BOULEVARD NB OFF-RAMP
"SBR-2" LINE	SEAL BEACH BOULEVARD NB LOOP ON-RAMP
"WB SR-22 R1" LINE	OLD RANCH PARKWAY NB ON-RAMP
"WB SR-22 R2" LINE	N405-W22 CONNECTOR CENTERLINE
"EB SR-22 L1" LINE	E22-S405 CONNECTOR CENTERLINE
"NB 605" LINE	N405-N605 CONNECTOR CENTERLINE
"I605" LINE	ROUTE 605 CENTERLINE

ALTERNATIVE 2
KEY MAP

NO SCALE

K-1

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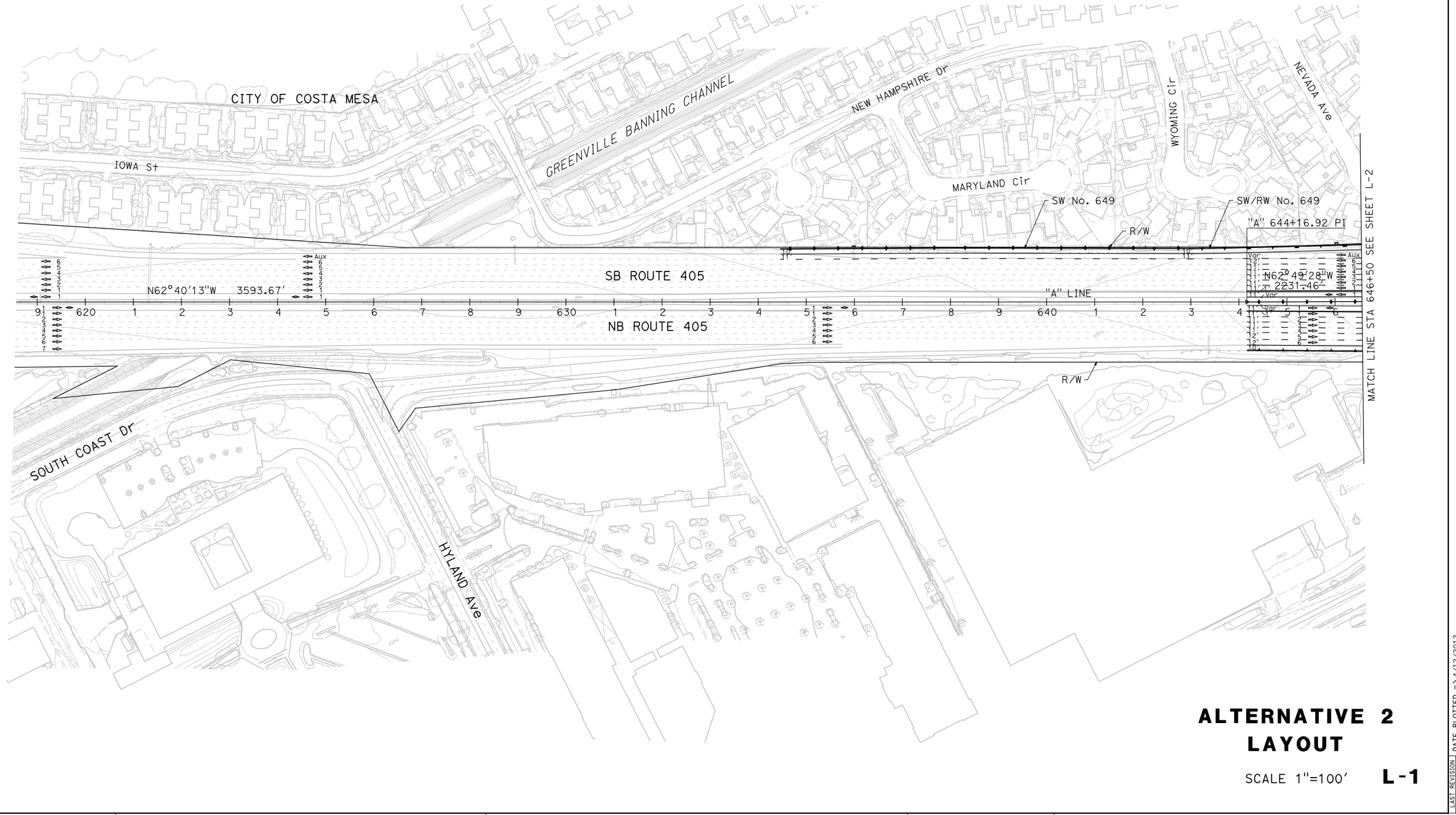

ALTERNATIVE 2 LAYOUT

SCALE 1"=100' **L-1**

LAST REVISION	DATE PLOTTED => 4/12/2012
00-00-00	TIME PLOTTED => 4:55:57 PM

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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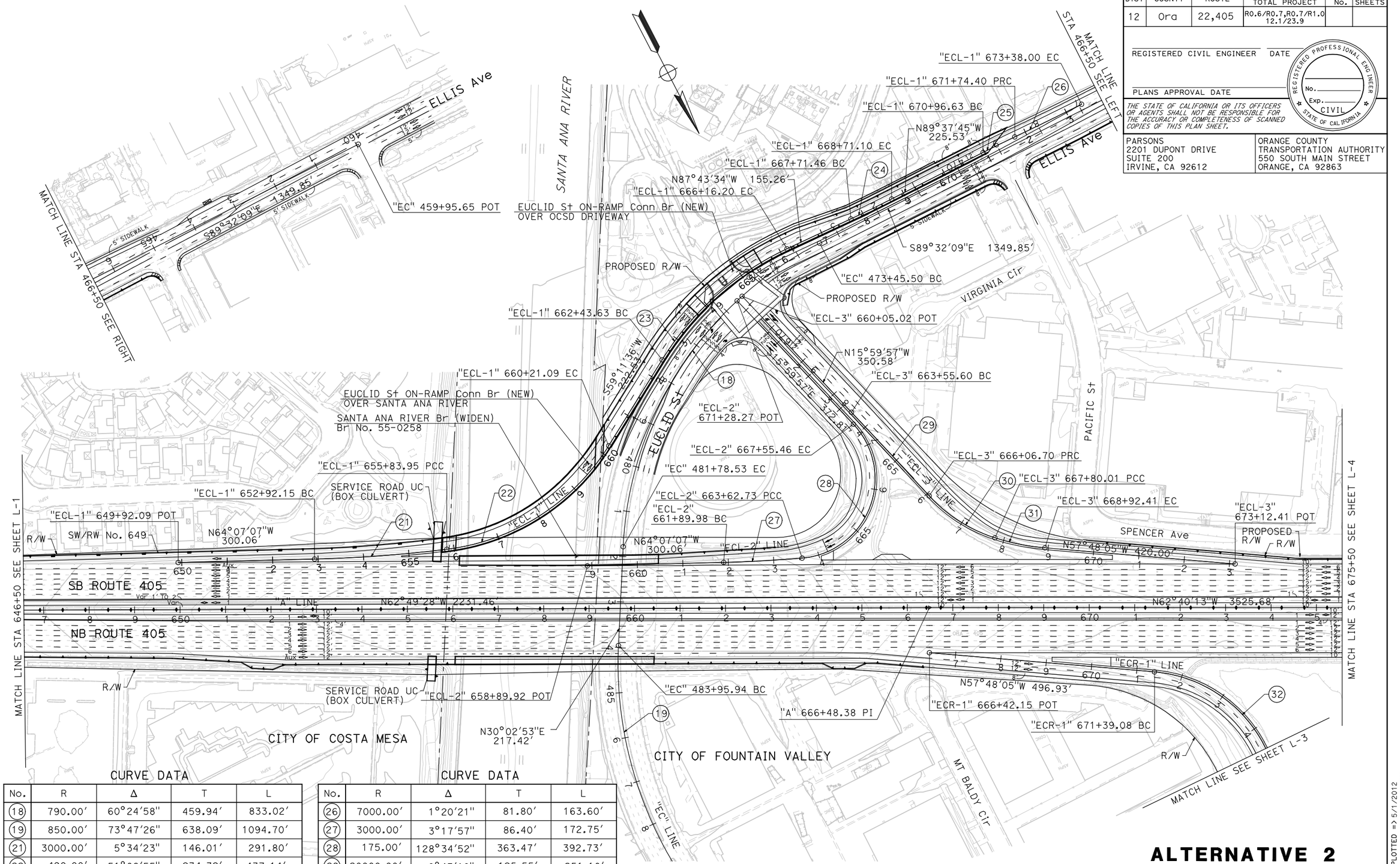
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Gibbons



CURVE DATA

No.	R	Δ	T	L
18	790.00′	60°24′58"	459.94′	833.02′
19	850.00′	73°47′26"	638.09′	1094.70′
21	3000.00′	5°34′23"	146.01′	291.80′
22	490.00′	51°06′55"	234.32′	437.14′
23	645.30′	33°04′50"	191.64′	372.57′
24	3000.00′	1°54′11"	49.83′	99.64′
25	2791.17′	1°35′47"	38.89′	77.77′

CURVE DATA

No.	R	Δ	T	L
26	7000.00′	1°20′21"	81.80′	163.60′
27	3000.00′	3°17′57"	86.40′	172.75′
28	175.00′	128°34′52"	363.47′	392.73′
29	20000.00′	0°43′10"	125.55′	251.10′
30	335.00′	29°38′29"	88.64′	173.31′
31	500.00′	12°52′49"	56.44′	112.40′
32	300.00′	102°24′12"	373.15′	536.18′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-2**

LAST REVISION | DATE PLOTTED => 5/1/2012
00-00-00 | TIME PLOTTED => 9:37:31 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 | DGN FILE => ALT 2 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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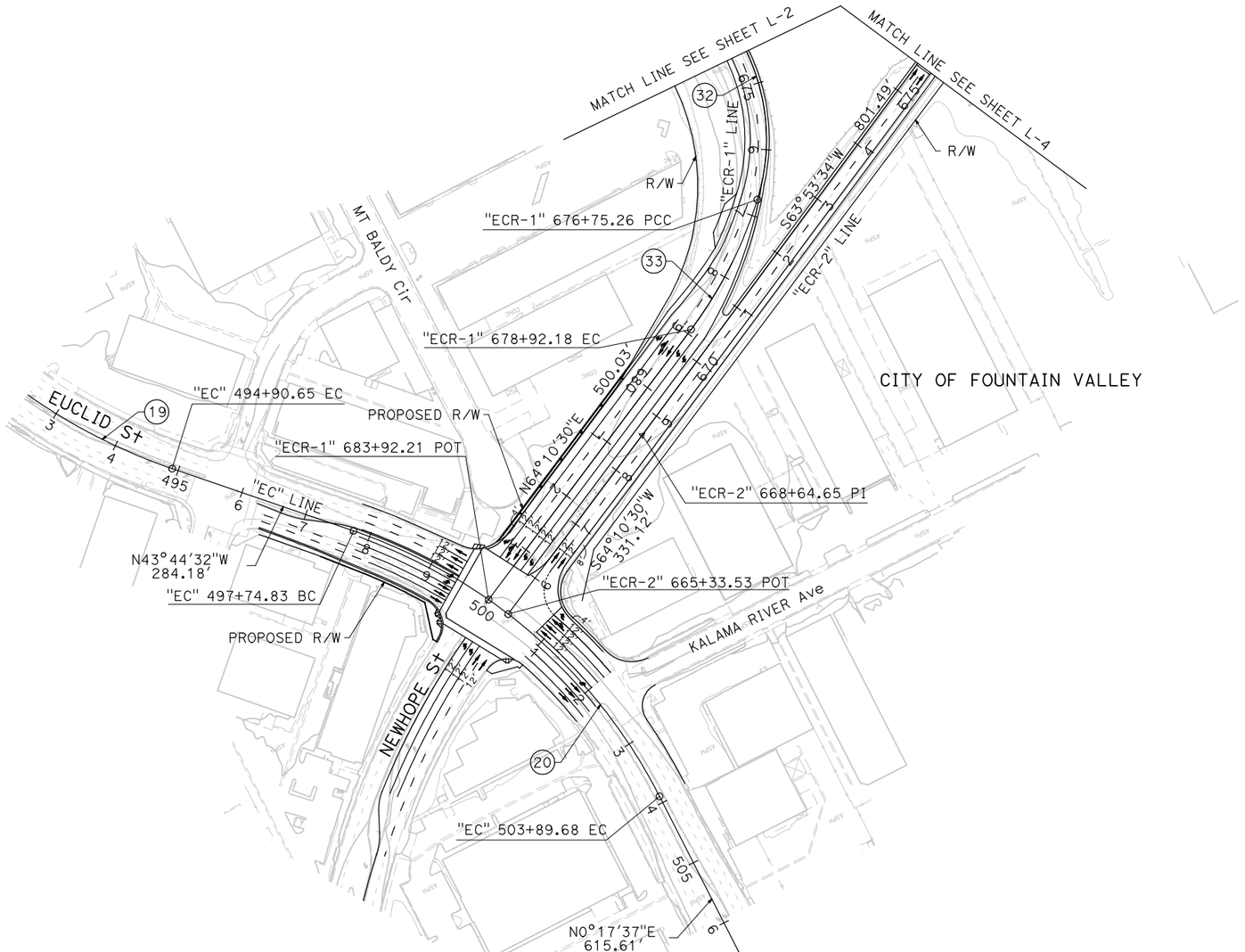
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(19)	850.00′	73°47′26"	638.09′	1094.70′
(20)	800.00′	44°02′09"	323.51′	614.86′
(32)	300.00′	102°24′12"	373.15′	536.18′
(33)	635.00′	19°34′23"	109.53′	216.92′



ALTERNATIVE 2
LAYOUT

SCALE 1"=100′ **L-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
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DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:56:09 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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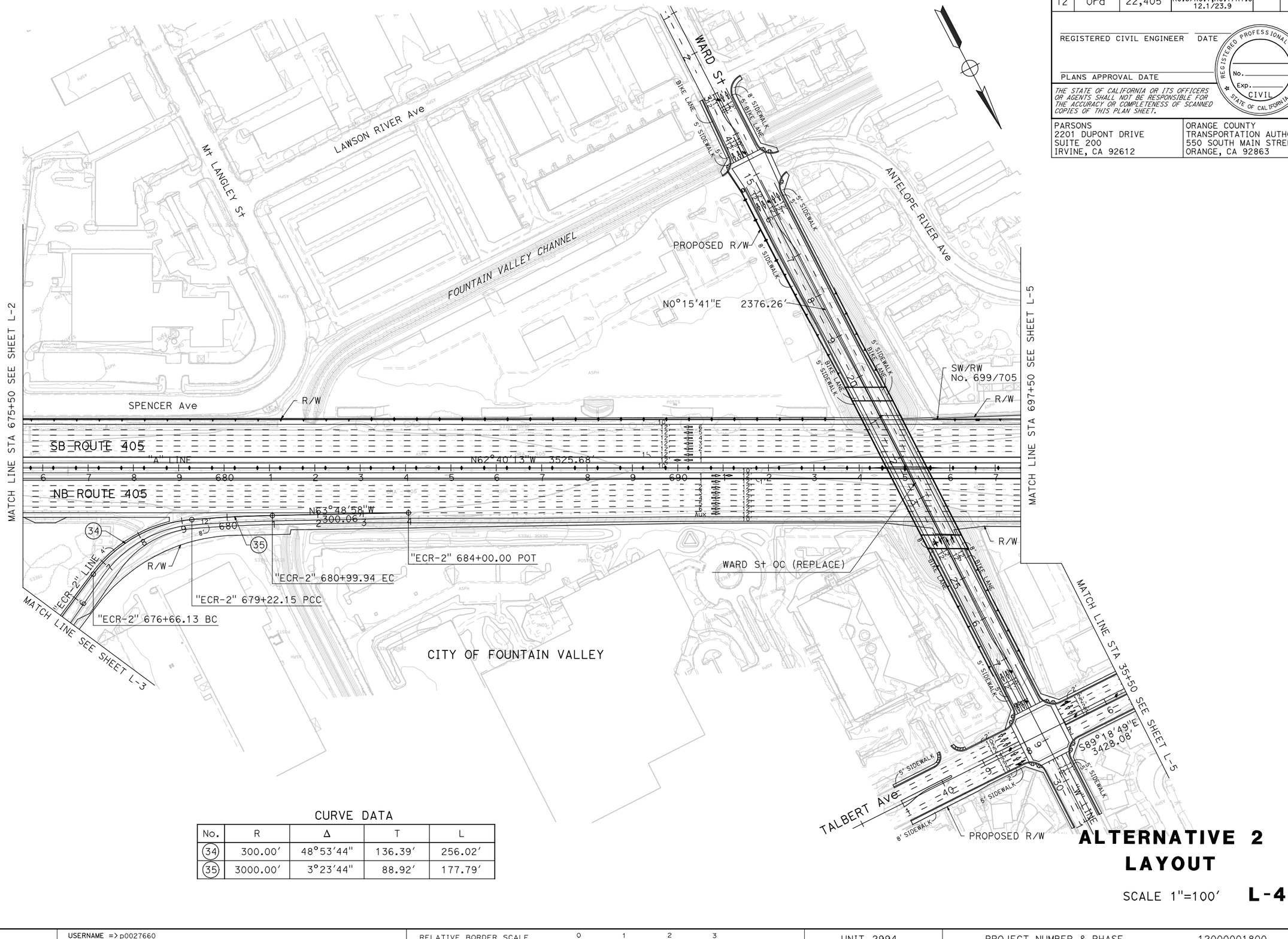
550 SOUTH MAIN STREET
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
(34)	300.00′	48°53′44"	136.39′	256.02′
(35)	3000.00′	3°23′44"	88.92′	177.79′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR

CALCULATED-DESIGNED BY

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LAST REVISION DATE PLOTTED => 4/12/2012
00-00-00 TIME PLOTTED => 4:56:12 PM

BORDER LAST REVISED 7/2/2010

USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
SUITE 200
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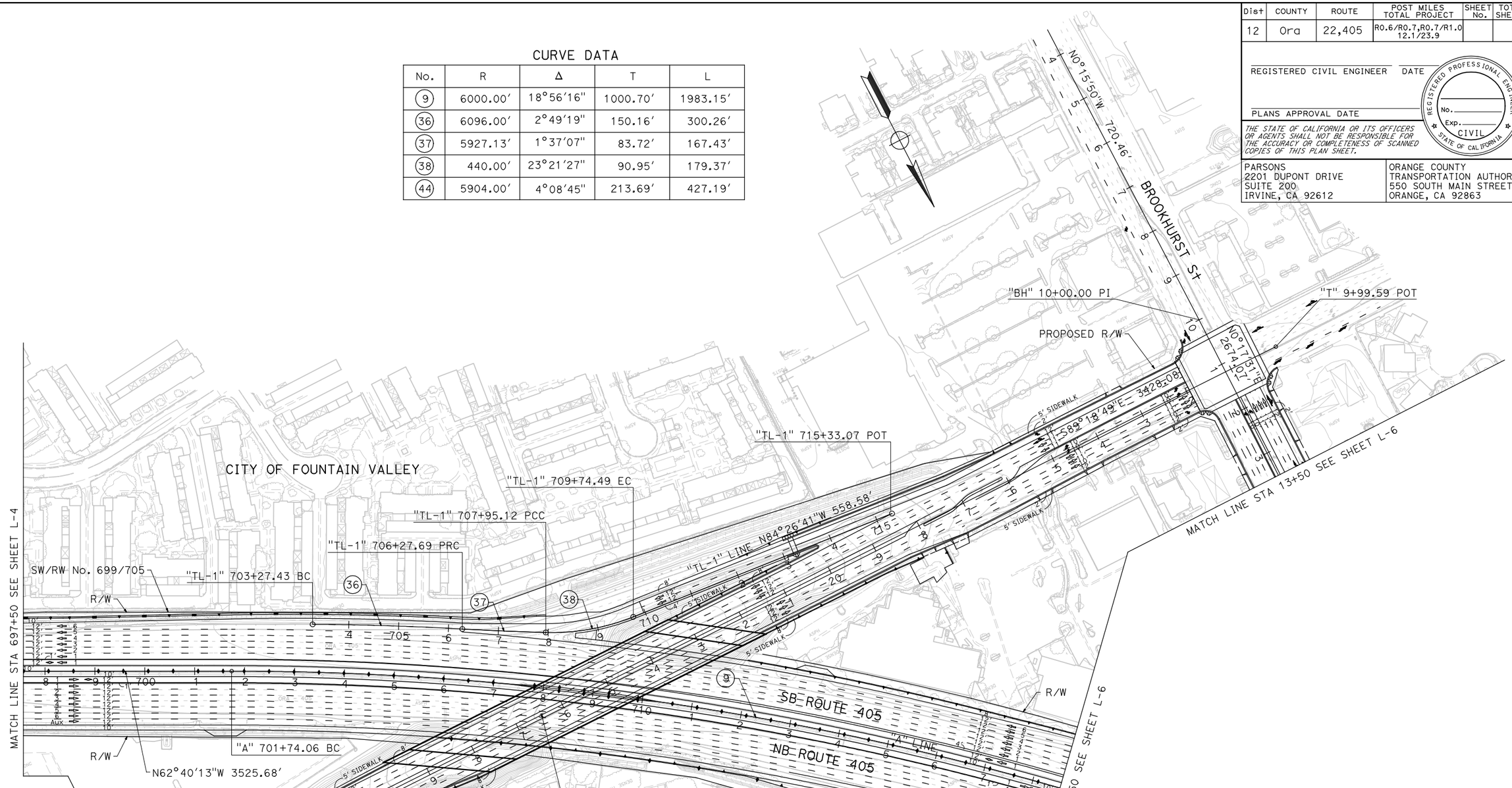
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(9)	6000.00′	18°56′16"	1000.70′	1983.15′
(36)	6096.00′	2°49′19"	150.16′	300.26′
(37)	5927.13′	1°37′07"	83.72′	167.43′
(38)	440.00′	23°21′27"	90.95′	179.37′
(44)	5904.00′	4°08′45"	213.69′	427.19′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-5**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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TIME PLOTTED => 4:56:17 PM

BORDER LAST REVISED 7/2/2010

USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
(9)	6000.00′	18°56′16"	1000.70′	1983.15′
(39)	3000.00′	6°11′05"	162.07′	323.83′
(40)	152.00′	297°59′01"	-	790.52′
(42)	210.00′	85°45′17"	194.99′	314.31′
(43)	500.00′	35°12′37"	158.66′	307.27′
(44)	5904.00′	4°08′45"	213.69′	427.19′
(45)	500.00′	38°35′43"	175.07′	336.81′
(46)	230.00′	89°43′35"	228.90′	360.18′
(47)	162.00′	301°14′23"	-	851.74′
(48)	3000.00′	4°35′23"	120.23′	240.32′
(49)	225.00′	123°36′41"	419.72′	485.42′
(50)	3000.00′	3°11′29"	83.57′	167.10′
(51)	7000.00′	4°08′15"	252.86′	505.50′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

MATCH LINE STA 718+50 SEE SHEET L-5

MATCH LINE STA 740+50 SEE SHEET L-7

TOIYABE St

"BHL-2" 723+74.97 POT

N89°42′29"W 194.54′

"BHL-2" 725+69.51 BC

"BHL-2" 728+83.82 EC

N3°57′12"W 253.90′

"BHL-2" 731+37.72 BC

"BHL-2" 734+44.99 EC

"BHL-2" 738+71.68 POT

N39°09′49"W 426.70′

N0°17′51"E 2674.07′

"BHL-1" 722+33.17 POT

"BHL-1" 725+33.23 BC

"BHL-1" 736+52.17 EC

N9°13′26"E 82.56′

"BHL-1" 737+34.73 POT

"BHL-1" 728+57.06 PCC

"A" 732+40.44 PI

"A" 721+57.21 EC

N44°52′42"W 300.06′

N43°43′57"W 1083.23′

N44°01′57"W 8326.00′

SB ROUTE 405

"A" LINE

NB ROUTE 405

"BHR-1" LINE

"BHL-1" LINE

"BHL-2" LINE

"BHR-2" LINE

"BHR-3" LINE

"BH" LINE

BROOKHURST St OC (REPLACE)

"BHR-2" 727+93.68 PCC

"BHR-2" 719+31.40 POT

N9°17′31"E 10.54′

"BHR-2" 719+41.94 BC

"BHR-2" 733+34.07 POT

"BHR-2" 732+33.92 PI

"BHR-2" 730+34.00 EC

N44°52′42"W 199.92′

N45°10′42"W 100.15′

N48°22′11"W 435.62′

"BHR-3" 740+22.26 BC

"BHR-3" 735+86.65 EC

"BHR-3" 731+01.22 BC

S8°01′08"W 57.74′

"BHR-3" 730+43.49 POT

"BHR-1" 721+88.30 PCC

"BHR-1" 725+25.11 EC

"BHR-1" 727+28.38 BC

"BHR-1" 730+88.57 EC

"BHR-1" 732+73.98 POT

N0°09′19"E 202.27′

N89°42′29"W 185.41′

"BH" 36+74.07 POT

"S" 15+35.52 BC

S89°10′35"W 169.85′

"S" 13+65.67 POT

ACCESS GATE

SAN RAFAEL St

SW No. 708/710/718

BROOKHURST St

SLATER Ave

LA QUINTA Cir

CITY OF FOUNTAIN VALLEY

MATCH LINE SEE RIGHT

MATCH LINE SEE LEFT

R/W

PROPOSED R/W

5' SIDEWALK

8' SIDEWALK

BIKE LANE

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-6**

LAST REVISION	DATE PLOTTED => 4/12/2012
00-00-00	TIME PLOTTED => 4:56:24 PM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

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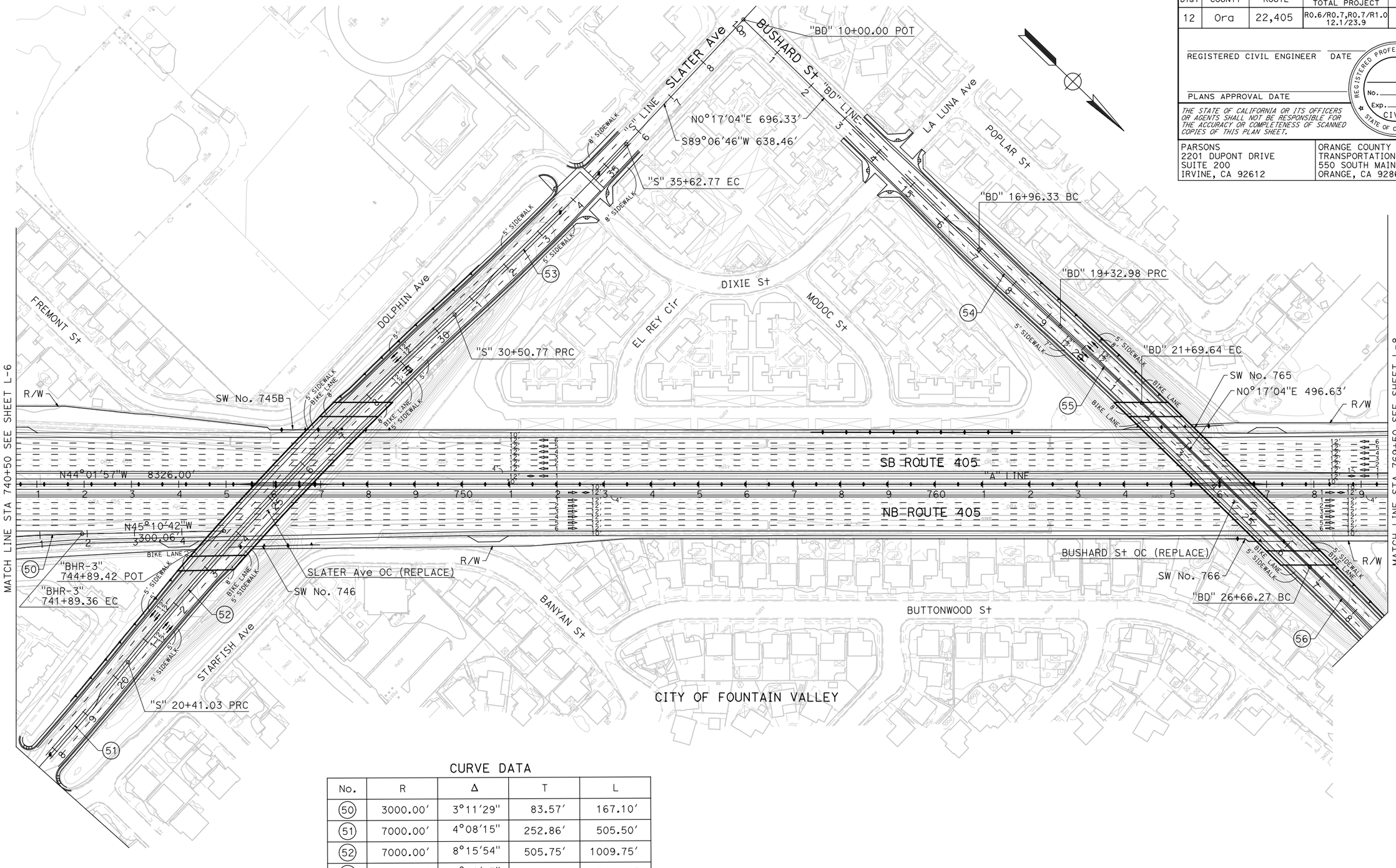
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans



CURVE DATA

No.	R	Δ	T	L
(50)	3000.00′	3°11′29"	83.57′	167.10′
(51)	7000.00′	4°08′15"	252.86′	505.50′
(52)	7000.00′	8°15′54"	505.75′	1009.75′
(53)	7000.00′	4°11′27"	256.11′	511.99′
(54)	7000.00′	1°56′13"	118.34′	236.65′
(55)	7000.00′	1°56′13"	118.34′	236.65′
(56)	7000.00′	1°56′13"	118.34′	236.65′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-7**

LAST REVISION 00-00-00 | DATE PLOTTED => 4/12/2012 TIME PLOTTED => 4:56:29 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 DGN FILE => ALT 2 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
56	7000.00′	1°56′13"	118.34′	236.65′
57	7000.00′	1°56′13"	118.34′	236.65′
58	7000.00′	2°46′55"	169.98′	339.89′
59	7000.00′	2°46′55"	169.98′	339.89′
60	7000.00′	2°35′26"	158.28′	316.50′
61	7000.00′	2°13′02"	135.46′	270.88′
63	3000.00′	4°32′25"	118.93′	237.73′
64	388.29′	34°08′53"	119.26′	231.42′
65	350.00′	81°21′13"	300.80′	496.96′
66	158.00′	226°53′21"	-	625.67′
67	20000.00′	2°28′00"	430.60′	861.06′
68	3500.00′	5°15′29"	160.71′	321.20′
69	1400.00′	5°25′23"	66.30′	132.51′
70	1600.00′	7°27′30"	104.28′	208.27′
71	154.00′	217°37′30"	-	584.93′
72	300.00′	88°27′08"	292.00′	463.13′
73	400.00′	42°53′42"	157.14′	299.46′

CURVE DATA

No.	R	Δ	T	L
74	4500.00′	1°56′44"	76.41′	152.81′
75	20000.00′	0°50′01"	145.48′	290.95′
80	20000.00′	0°59′34"	173.27′	346.53′
81	2700.00′	2°24′31"	56.76′	113.50′
82	1900.00′	6°54′37"	114.72′	229.15′
83	850.00′	11°23′33"	84.79′	169.01′
87	1350.00′	4°44′14"	55.84′	111.62′
88	500.00′	37°34′54"	170.12′	327.96′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

MATCH LINE STA 123+00 SEE SHEET L-9

"WNL-1" 787+98.66 POT

N2°30'48"W 48.10'

PROPOSED R/W S89°07'39"W 596.82'

"WN" 120+50.22 EC

"WNL-1" 787+50.56 EC

"WNL-1" 782+53.60 BC

5' SIDEWALK

120'

R/W

RECREATION Cir

MAGNOLIA St ON-RAMP (NEW)

"WNL-2" 794+94.61 EC

"ML-1" 795+77.90 BC

"ML-1" 797+46.91 EC

"WNL-1" 779+35.94 EC

"WNL-1" LINE

"WNL-2" 776+86.67 BC

S0°00'02"W 197.86'

"WNL-2" 774+88.80 POT

"WNL-2" LINE

N83°52'01"W 317.66'

"WN" 117+79.34 PRC

"WN" 114+62.84 BC

"ML-1" 788+18.75 PRC

N43°45'45"W 130.96'

"WNL-2" 791+73.41 PCC

"ML-1" 792+92.37 EC

PROPOSED R/W

N50°40'22"W 285.53'

N39°16'50"W 568.56'

N39°09'49"W 7535.39'

"WNL-1" 771+66.73 POT

N45°10'42"W 300.06'

"WNL-1" 777+04.52 PCC

PROPOSED R/W

"WNL-2" 783+12.34 PRC

N45°10'42"W 300.06'

"WNL-1" 774+66.79 BC

SB ROUTE 405

"ML-1" 781+72.16 POT

"ML-1" 784+72.22 BC

"ML-1" 790+63.21 BC

"ML-1" 789+32.25 EC

"A" LINE

N44°01'57"W 8326.00'

MATCH LINE STA 769+50 SEE SHEET L-7

NB ROUTE 405

"MR-1" 783+34.57 POT

N39°24'05"W 524.87'

N44°35'12"W 381.62'

N39°09'49"W 270.98'

N44°01'57"W 714.73'

"WNR-1" 773+35.00 POT

"WNR-1" 776+05.98 BC

"WNR-1" 777+38.49 EC

"WNR-1" 781+20.11 BC

"WNR-1" LINE

"WNR-1" 783+28.38 PCC

"WNR-2" LINE

"WNR-1" 791+07.72 POT

S0°29'48" 194.41'

"WNR-1" 789+13.31 EC

WARNER Ave OC (REPLACE)

S89°30'03"W 498.81'

"WN" 109+64.03 EC

"WN" LINE

"BD" 29+02.92 PRC

"BD" 31+39.58 EC

BUSHARD St

PROPOSED R/W

N0°47'04"E 697.94'

"WNR-2" 778+63.20 BC

N1°31'28"E 59.43'

"WNR-2" 778+03.77 POT

"WN" 106+24.14 PRC

"WN" 102+84.26 BC

"BD" 38+37.52 POT

WARNER Ave

S89°30'03"W 1152.48'

"WNR-2" 788+94.06 EC

"MR-1" 788+59.44 BC

"MR-1" 789+71.06 EC

SW/RW No. 788/792

"WNR-2" 796+08.78 BC

"MR-1" 796+95.52 BC

"WNR-2" 797+61.59 PRC

DAISY Ave

WARNER Ave ON-RAMP (NEW)

"WNR-2" 785+94.59 BC

"WNR-2" 783+26.33 EC

OCEAN VIEW CHANNEL

N86°55'39"W 268.26'

CITY OF FOUNTAIN VALLEY

MATCH LINE STA 798+50 SEE SHEET L-10

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-8**

LAST REVISION 00-00-00 | DATE PLOTTED => 4/12/2012 TIME PLOTTED => 4:56:35 PM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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PARSONS
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SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
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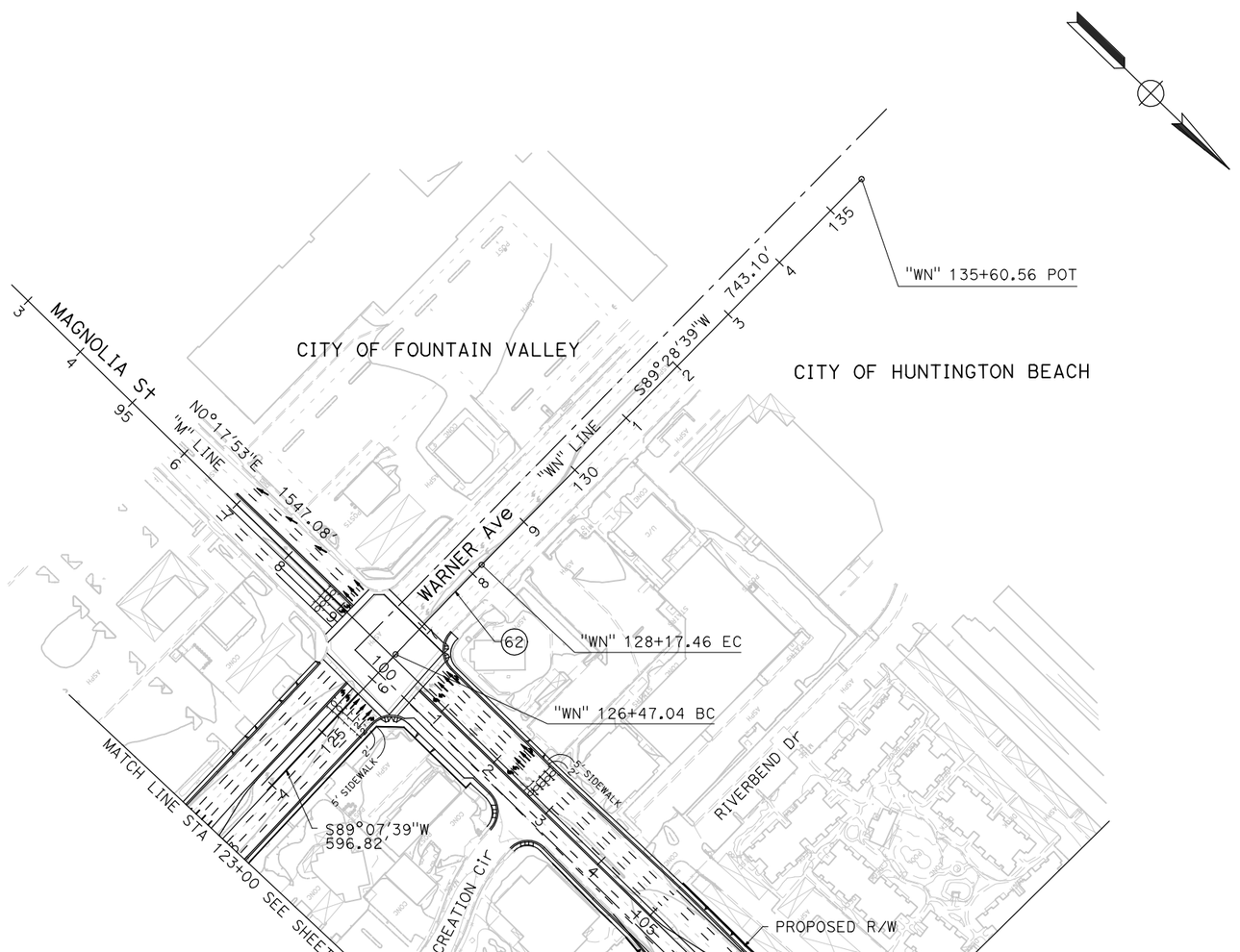
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
(62)	7000.00′	1°23′42"	85.21′	170.42′
(76)	7000.00′	2°09′57"	132.31′	264.59′

ALTERNATIVE 2
LAYOUT

SCALE 1"=100′ **L-9**

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

CONSULTANT FUNCTIONAL SUPERVISOR

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LAST REVISION 00-00-00 | DATE PLOTTED => 5/1/2012 TIME PLOTTED => 9:37:36 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 DGN FILE => ALT 2 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
(10)	12000.00′	5°14′45"	549.73′	1098.69′
(75)	20000.00′	0°50′01"	145.48′	290.95′
(76)	7000.00′	2°09′57"	132.31′	264.59′
(77)	7000.00′	2°09′57"	132.31′	264.59′
(78)	7000.00′	2°09′57"	132.31′	264.59′
(79)	7000.00′	2°09′57"	132.31′	264.59′
(84)	170.00′	229°44′17"	-	681.65′
(85)	250.00′	84°49′31"	228.38′	370.12′
(86)	500.00′	35°15′41"	158.90′	307.71′
(88)	500.00′	37°34′54"	170.12′	327.96′

CURVE DATA

No.	R	Δ	T	L
(89)	250.00′	83°08′42"	221.75′	362.79′
(90)	172.00′	224°33′27"	-	674.11′
(91)	10000.00′	2°03′39"	179.86′	359.67′
(92)	20000.00′	0°55′53"	162.54′	325.08′
(93)	3000.00′	4°42′12"	123′.20′	246.26′
(94)	12097.00′	1°25′18"	150.07′	300.13′
(95)	120.00′	49°21′15"	55.14′	103.37′
(96)	450.00′	32°37′13"	131.68′	256.20′
(97)	250.00′	40°22′28"	91.92′	176.17′
(98)	3000.00′	3°11′32"	83.59′	167.15′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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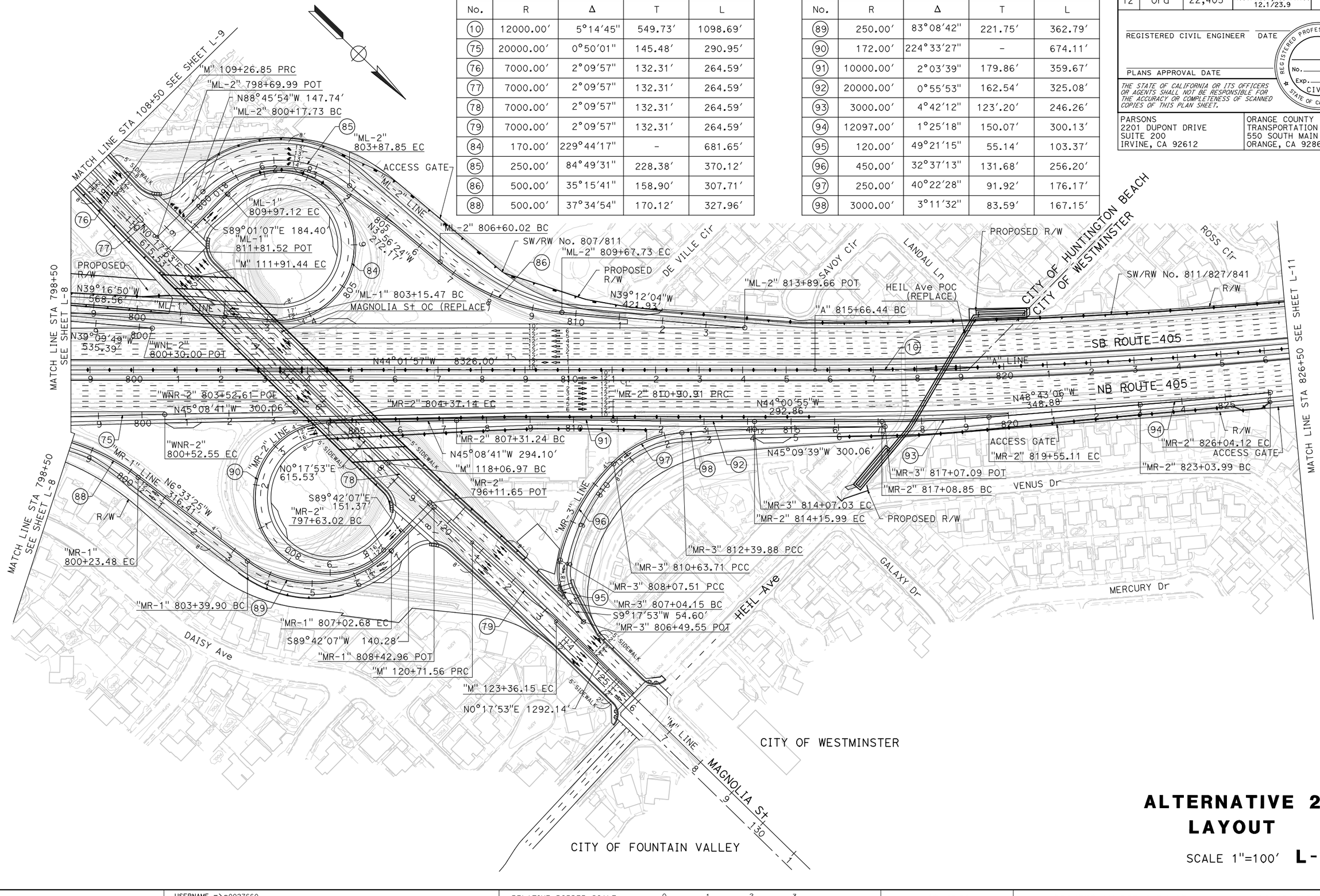
ORANGE, CA 92863



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:56:46 PM

BORDER LAST REVISED 7/2/2010
USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
10	12000.00′	5°14′45"	549.73′	1098.69′
99	7000.00′	2°39′09"	162.06′	324.07′
100	7000.00′	2°39′09"	162.06′	324.07′
101	7000.00′	2°39′09"	162.06′	324.07′
102	7000.00′	2°39′09"	162.06′	324.07′
103	7000.00′	2°16′16"	138.75′	277.47′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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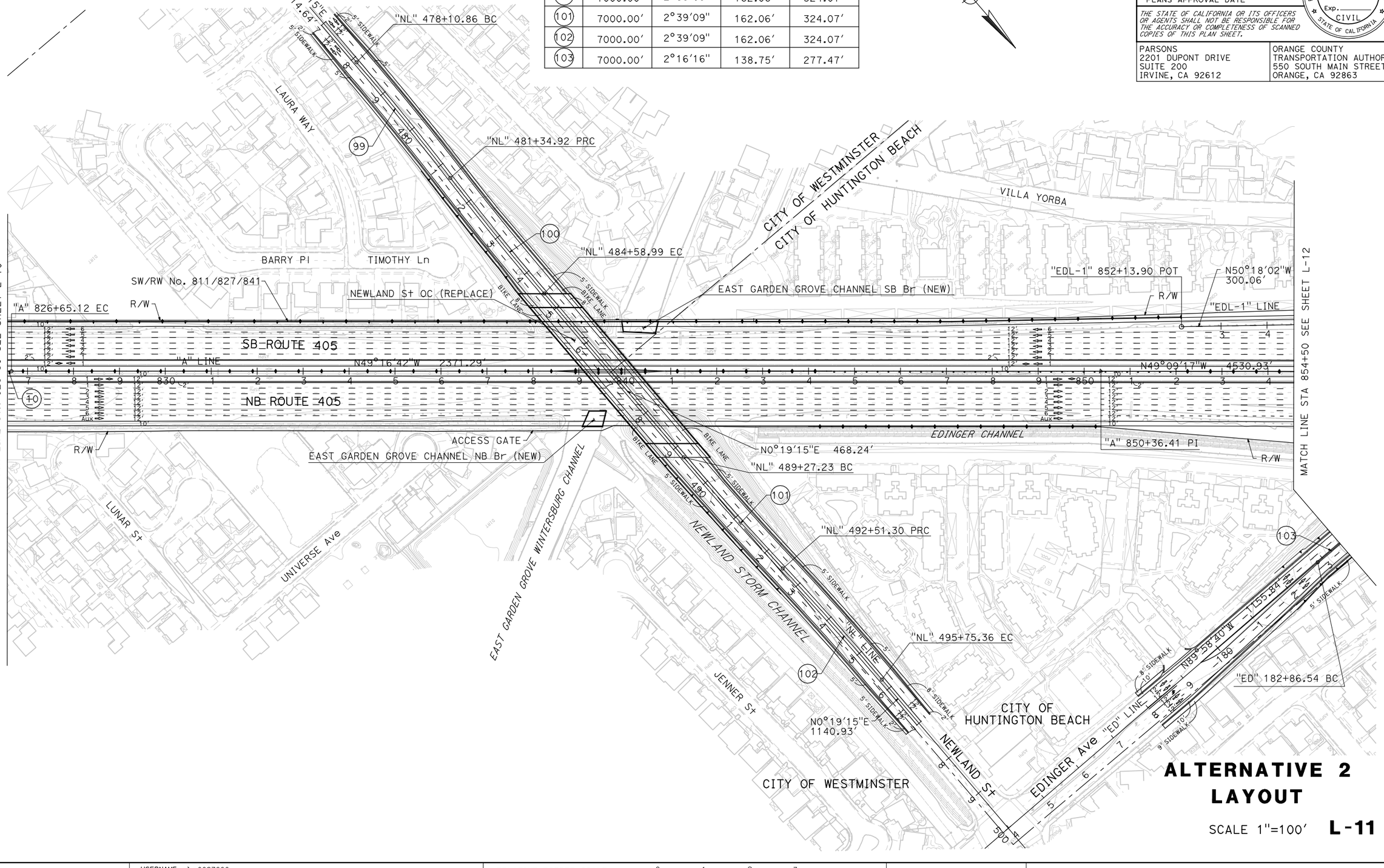
ORANGE, CA 92863



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-11**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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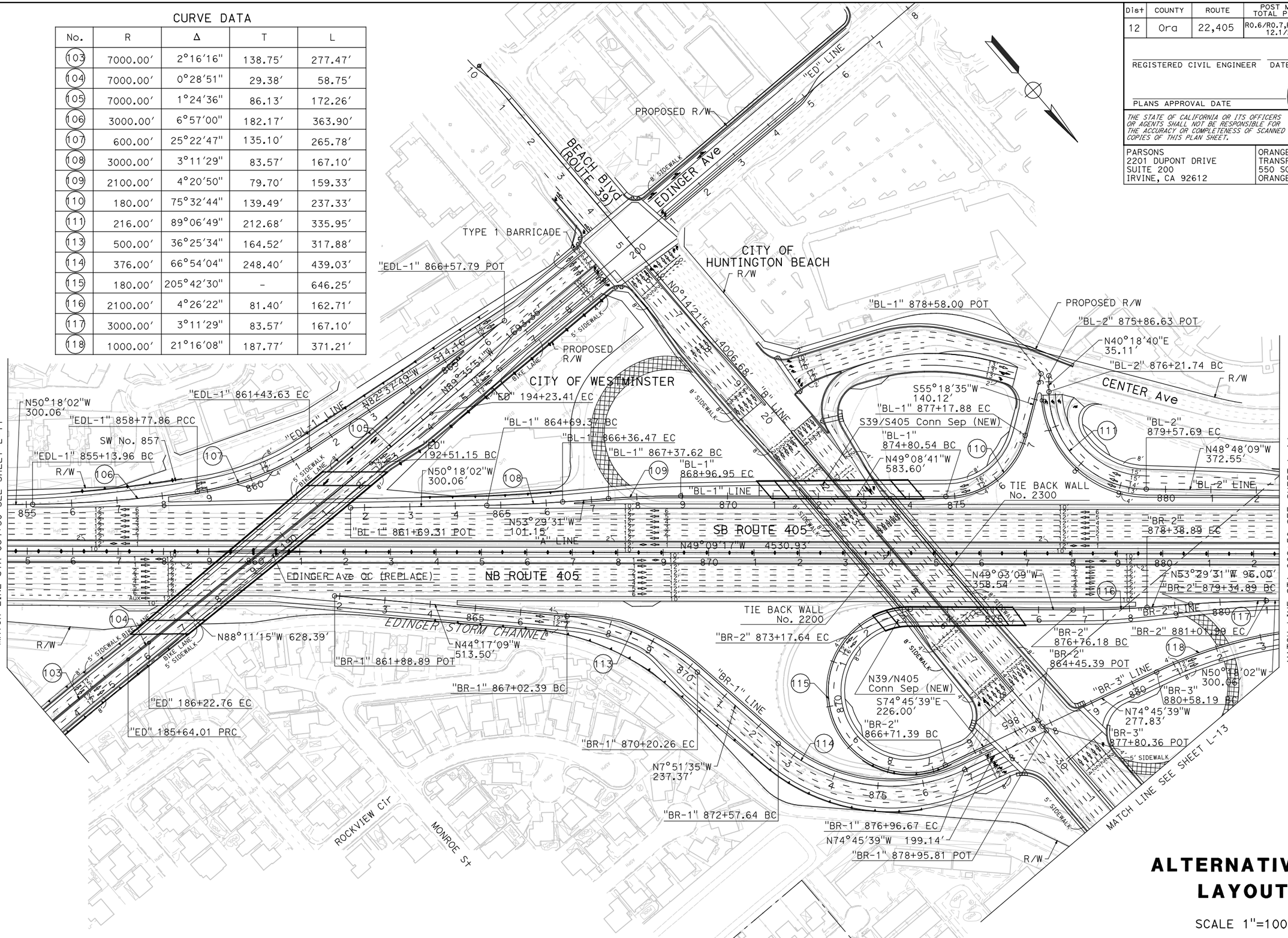
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
103	7000.00′	2°16′16"	138.75′	277.47′
104	7000.00′	0°28′51"	29.38′	58.75′
105	7000.00′	1°24′36"	86.13′	172.26′
106	3000.00′	6°57′00"	182.17′	363.90′
107	600.00′	25°22′47"	135.10′	265.78′
108	3000.00′	3°11′29"	83.57′	167.10′
109	2100.00′	4°20′50"	79.70′	159.33′
110	180.00′	75°32′44"	139.49′	237.33′
111	216.00′	89°06′49"	212.68′	335.95′
113	500.00′	36°25′34"	164.52′	317.88′
114	376.00′	66°54′04"	248.40′	439.03′
115	180.00′	205°42′30"	-	646.25′
116	2100.00′	4°26′22"	81.40′	162.71′
117	3000.00′	3°11′29"	83.57′	167.10′
118	1000.00′	21°16′08"	187.77′	371.21′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-12**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
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DATE PLOTTED => 4/12/2012
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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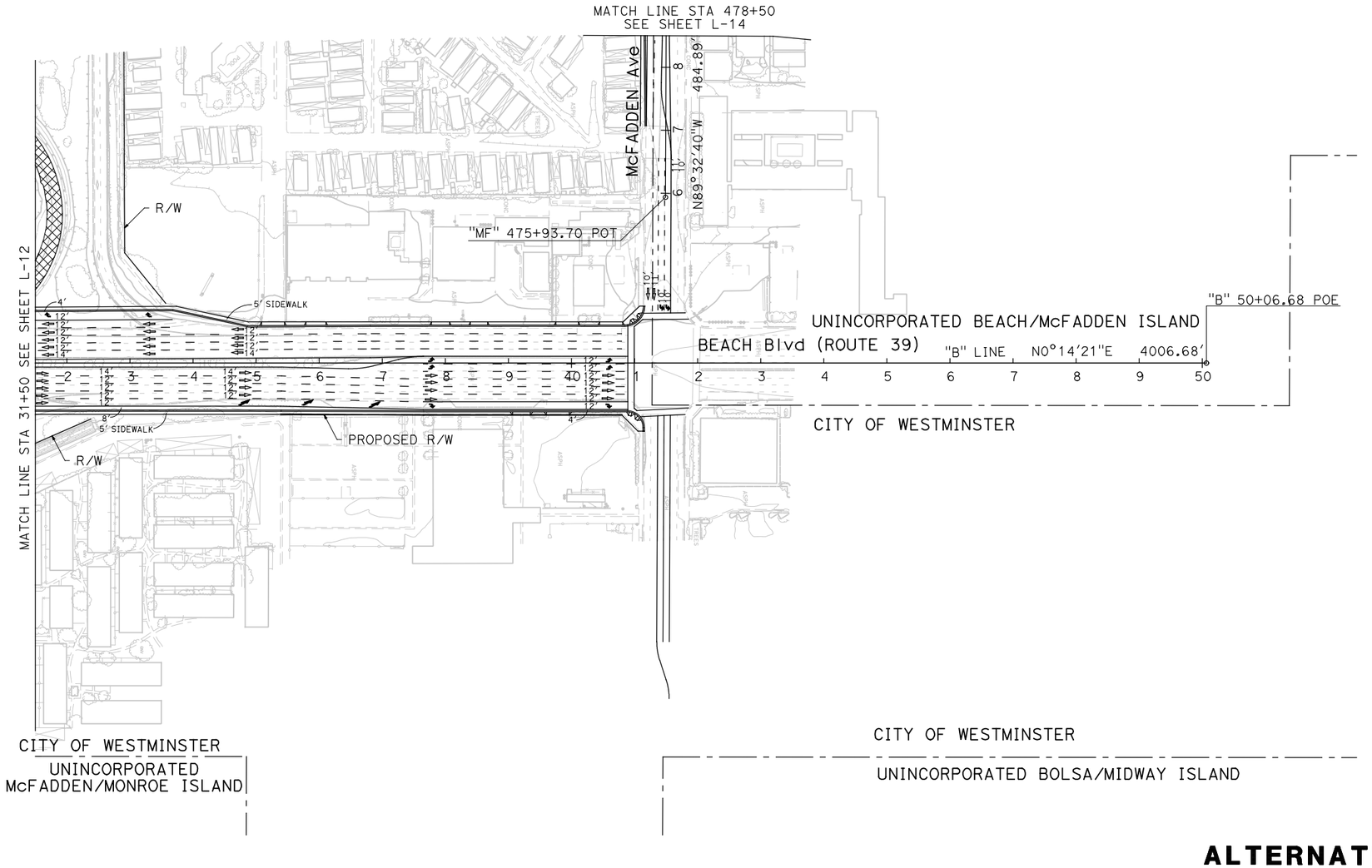

ALTERNATIVE 2 LAYOUT

SCALE 1"=100' **L-13**

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USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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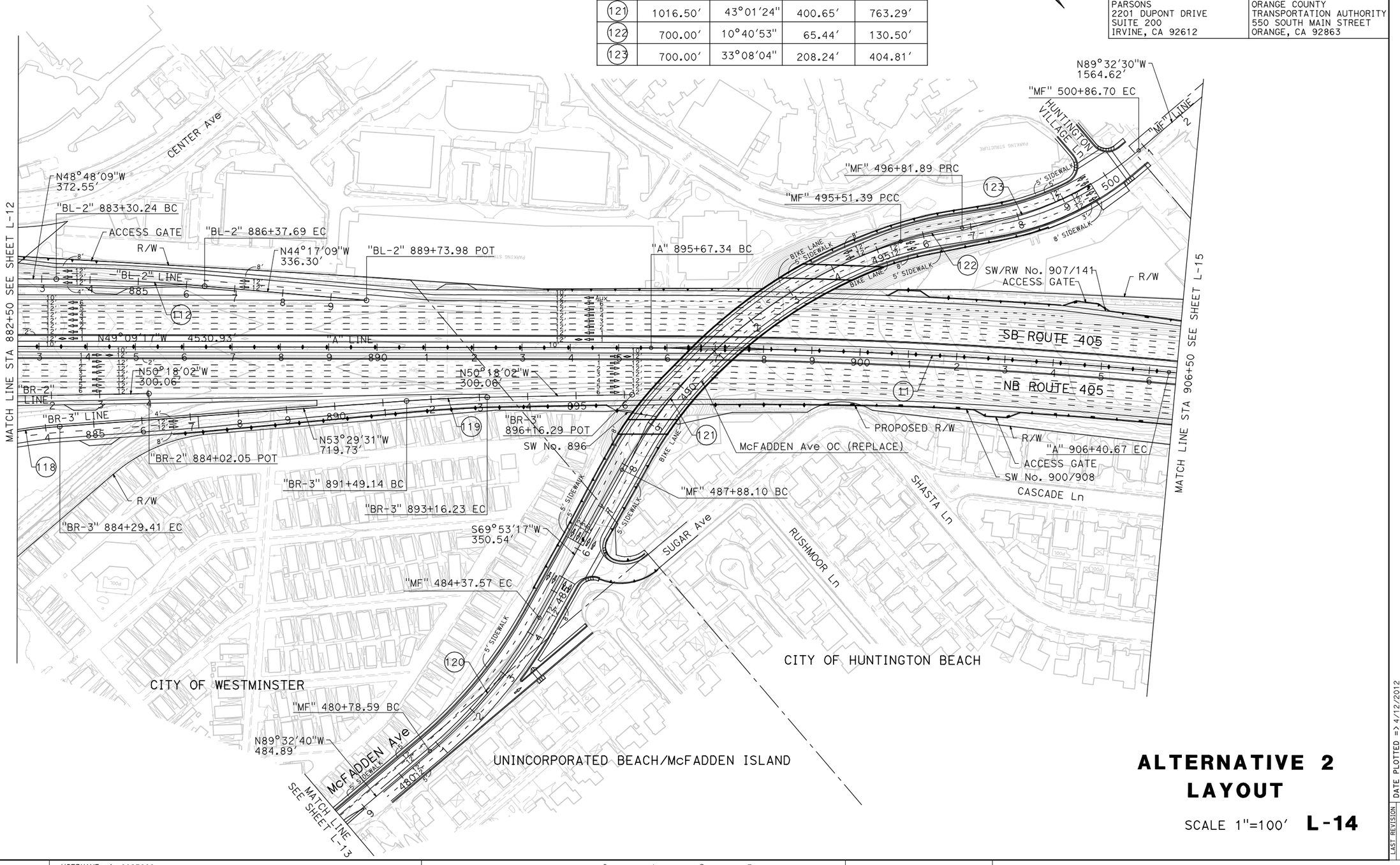
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
11	12000.00′	5°07′29"	537.02′	1073.33′
112	3900.00′	4°31′00"	153.80′	307.44′
118	1000.00′	21°16′08"	187.77′	371.21′
119	3000.00′	3°11′29"	83.57′	167.10′
120	1000.00′	20°34′03"	181.44′	358.97′
121	1016.50′	43°01′24"	400.65′	763.29′
122	700.00′	10°40′53"	65.44′	130.50′
123	700.00′	33°08′04"	208.24′	404.81′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-14**

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TIME PLOTTED => 4:57:10 PM

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DGN FILE => ALT 2 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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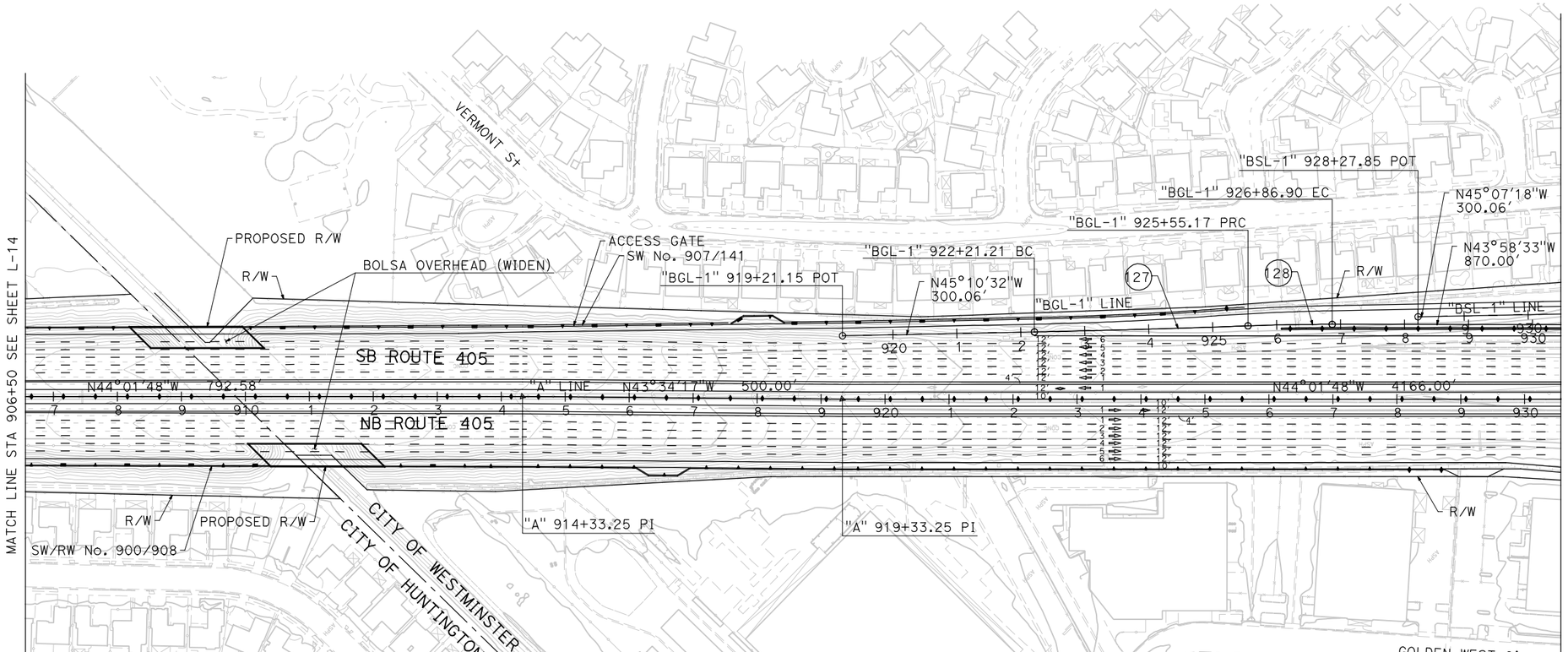
CURVE DATA

No.	R	Δ	T	L
127	20000.00′	0°57′24"	166.98′	333.96′
128	3500.00′	2°09′23"	65.87′	131.73′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-15**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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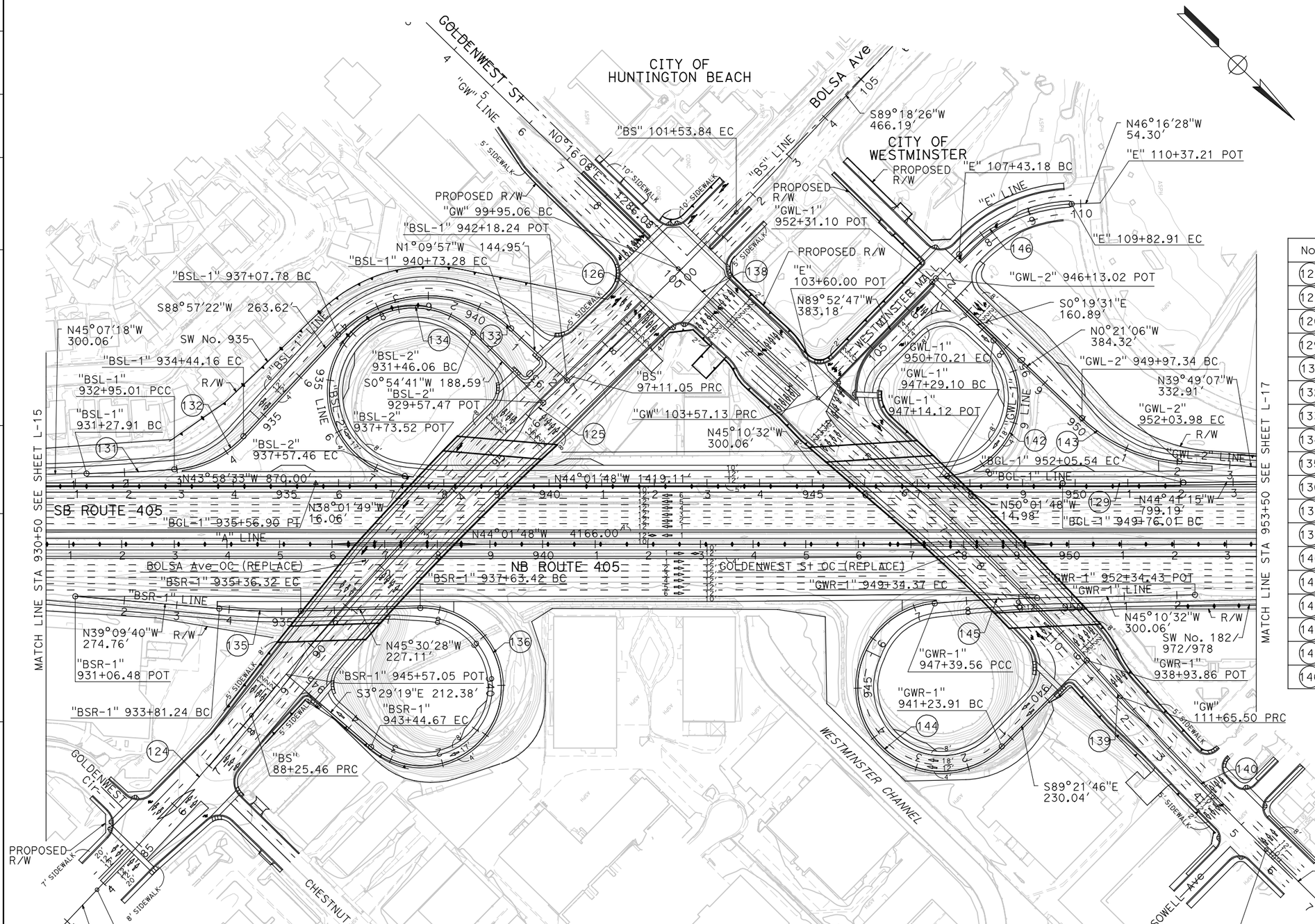

CURVE DATA

No.	R	Δ	T	L
124	7000.00′	3°37′28"	221.47′	442.79′
125	7000.00′	7°14′55"	443.38′	885.59′
126	7000.00′	3°37′28"	221.47′	442.79′
129	20000.00′	0°39′27"	114.77′	229.53′
131	3000.00′	3°11′29"	83.57′	167.10′
132	200.00′	42°43′50"	78.24′	149.16′
133	233.00′	89°52′40"	232.50′	365.50′
134	160.00′	218°56′29"	-	611.40′
135	1400.00′	6°20′48"	77.62′	155.08′
136	150.00′	222°01′09"	-	581.24′
138	7000.00′	2°57′49"	181.07′	362.07′
139	7000.00′	6°37′00"	404.63′	808.37′
140	7000.00′	3°17′05"	200.71′	401.30′
142	150.00′	130°17′43"	323.85′	341.11′
143	300.00′	39°28′01"	107.61′	206.65′
144	160.00′	220°27′59"	-	615.66′
145	3000.00′	3°43′14"	97.44′	194.81′
146	315.00′	43°36′18"	126.01′	239.73′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-16**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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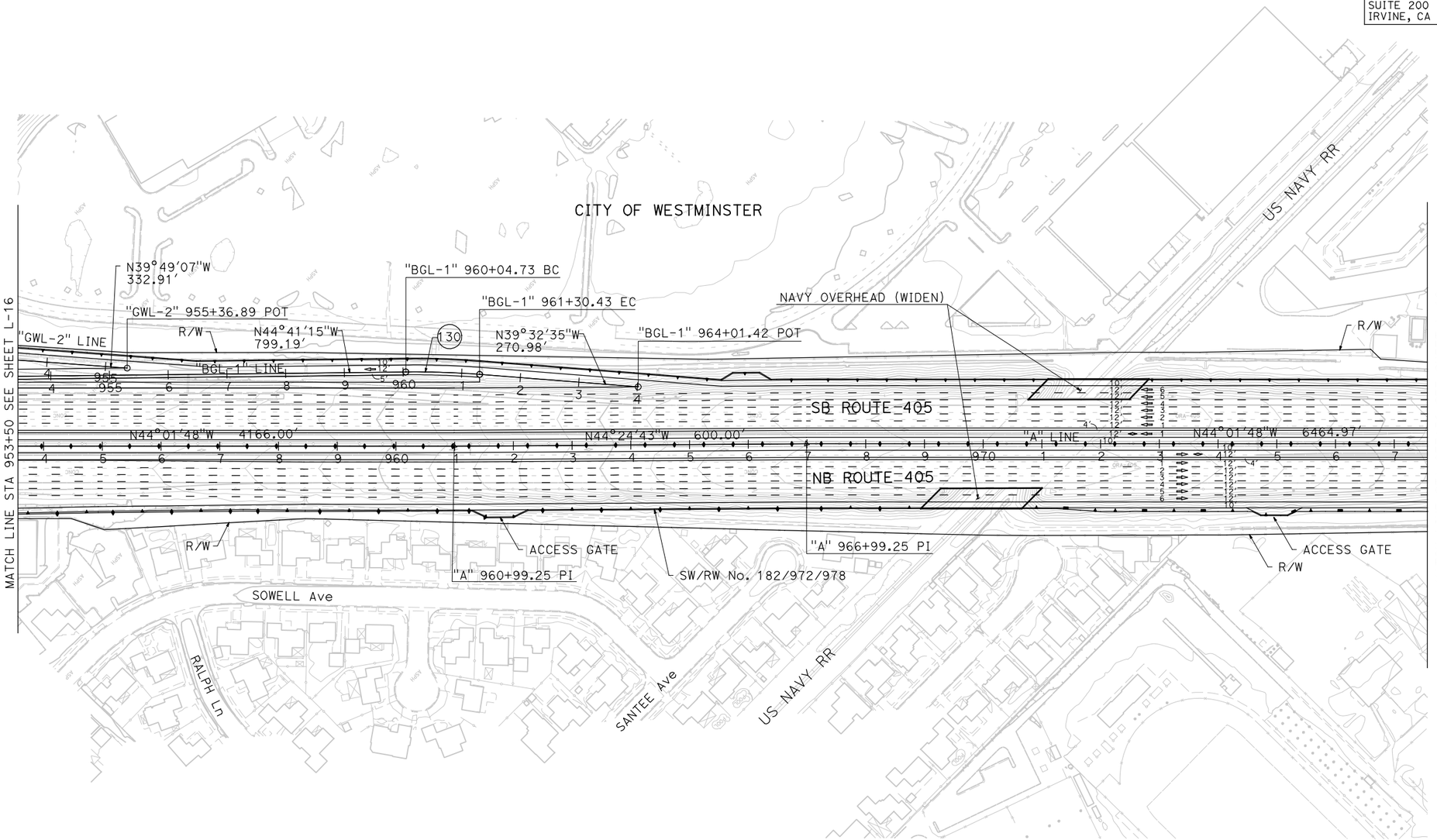
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
130	1400.00′	5°08′39"	62.89′	125.70′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-17**

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DGN FILE => ALT 2 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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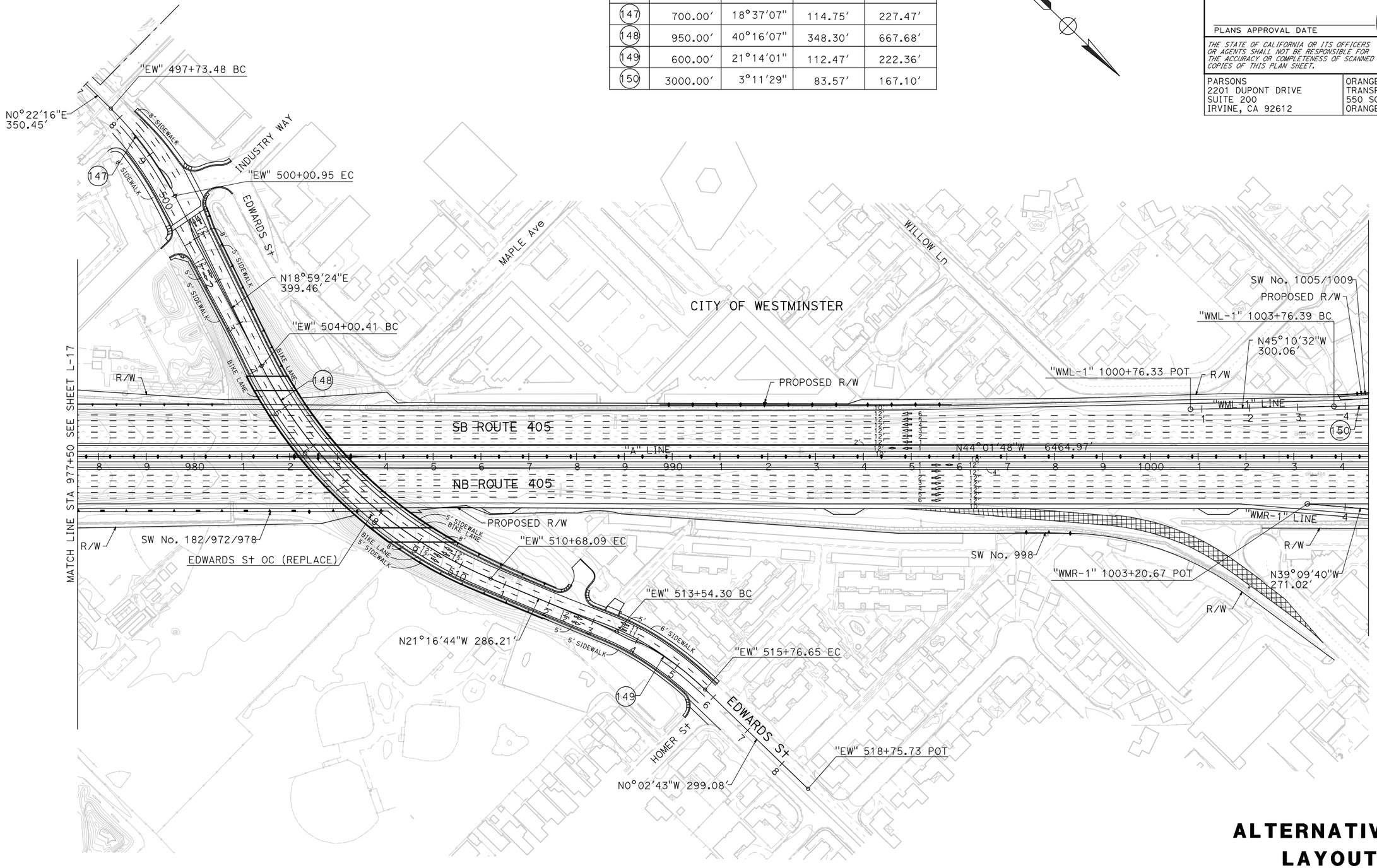
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
147	700.00′	18°37′07"	114.75′	227.47′
148	950.00′	40°16′07"	348.30′	667.68′
149	600.00′	21°14′01"	112.47′	222.36′
150	3000.00′	3°11′29"	83.57′	167.10′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-18**

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BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 | DGN FILE => ALT 2 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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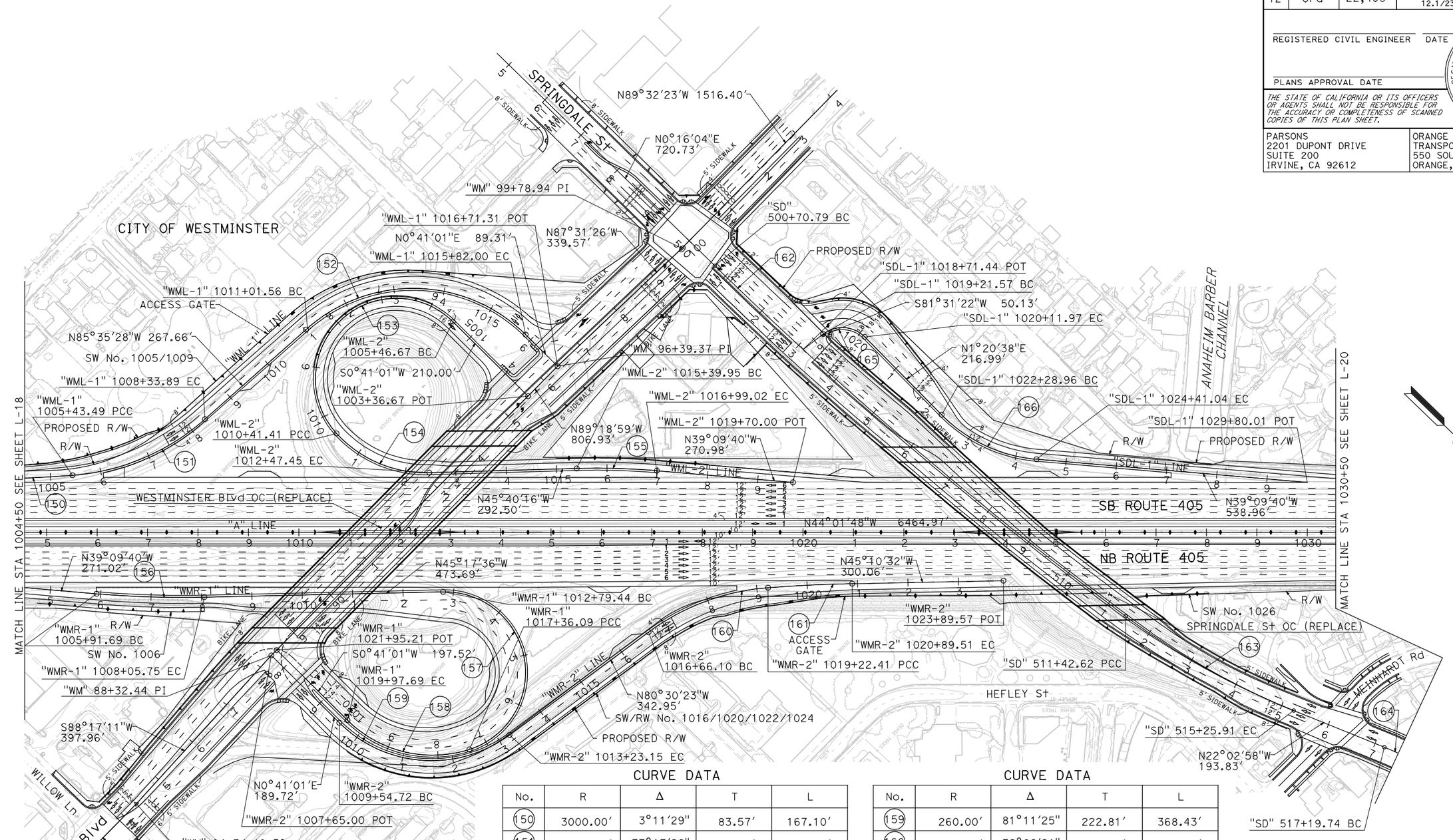

CURVE DATA

No.	R	Δ	T	L
150	3000.00′	3°11′29"	83.57′	167.10′
151	447.00′	37°13′26"	150.54′	290.41′
152	317.00′	86°50′14"	299.97′	480.44′
153	160.00′	177°10′04"	6472.14′	494.75′
154	240.00′	49°11′13"	109.85′	206.03′
155	1400.00′	6°30′36"	79.62′	159.07′
156	2000.00′	6°07′56"	107.13′	214.06′
157	160.00′	163°31′27"	1105.15′	456.65′
158	240.00′	67°27′10"	145.50′	261.60′

CURVE DATA

No.	R	Δ	T	L
159	260.00′	81°11′25"	222.81′	368.43′
160	456.93′	32°08′21"	131.62′	256.31′
161	3000.00′	3°11′29"	83.57′	167.10′
162	8000.00′	7°40′35"	536.72′	1071.83′
163	1500.00′	14°38′27"	192.70′	383.30′
164	600.00′	23°42′12"	125.91′	248.22′
165	62.50′	82°52′00"	55.17′	90.39′
166	300.00′	40°30′18"	110.69′	212.08′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-19**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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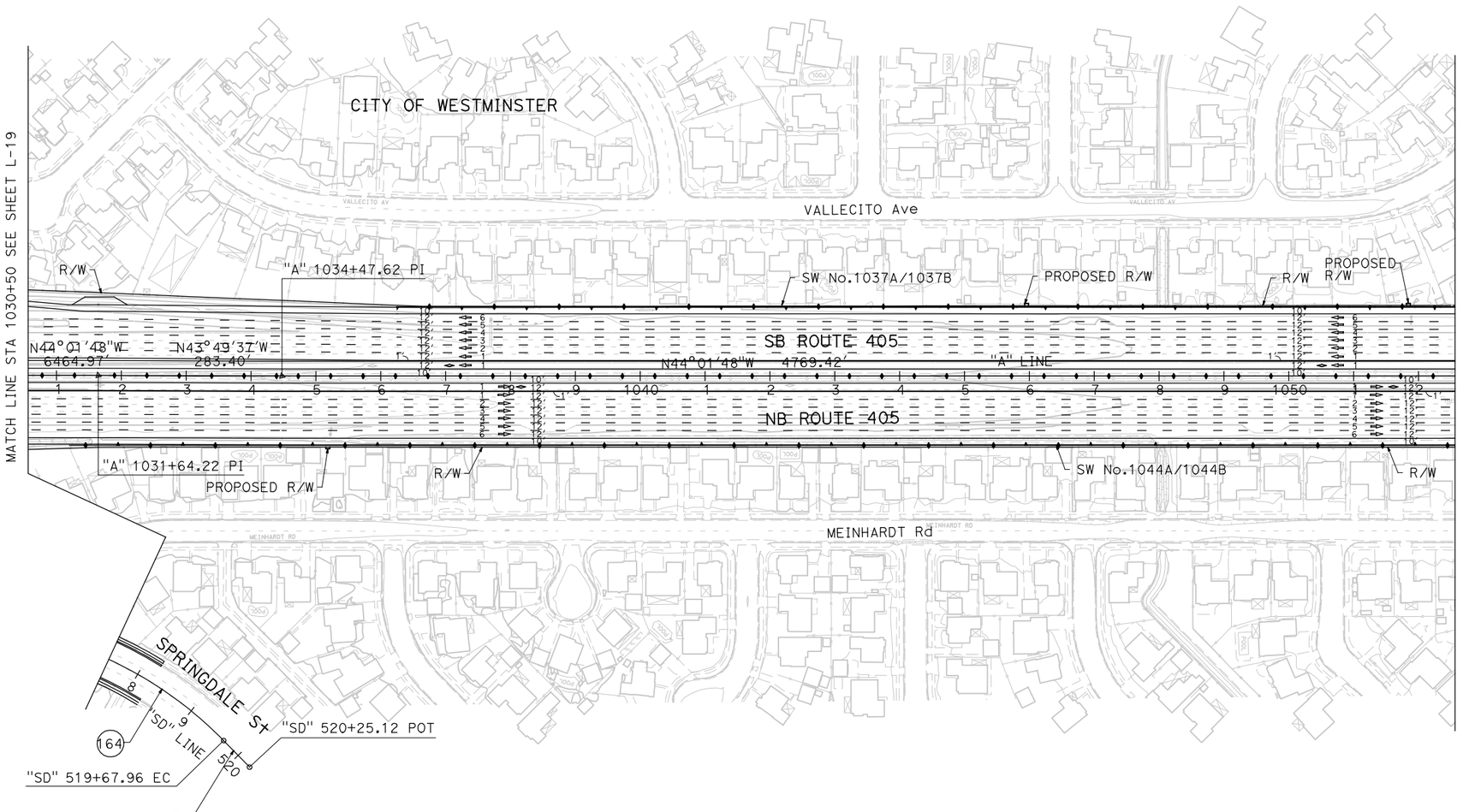
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
164	600.00′	23°42′12"	125.91′	248.22′



ALTERNATIVE 2
LAYOUT

SCALE 1"=100′ **L-20**

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TIME PLOTTED => 4:57:45 PM

BORDER LAST REVISED 7/2/2010
USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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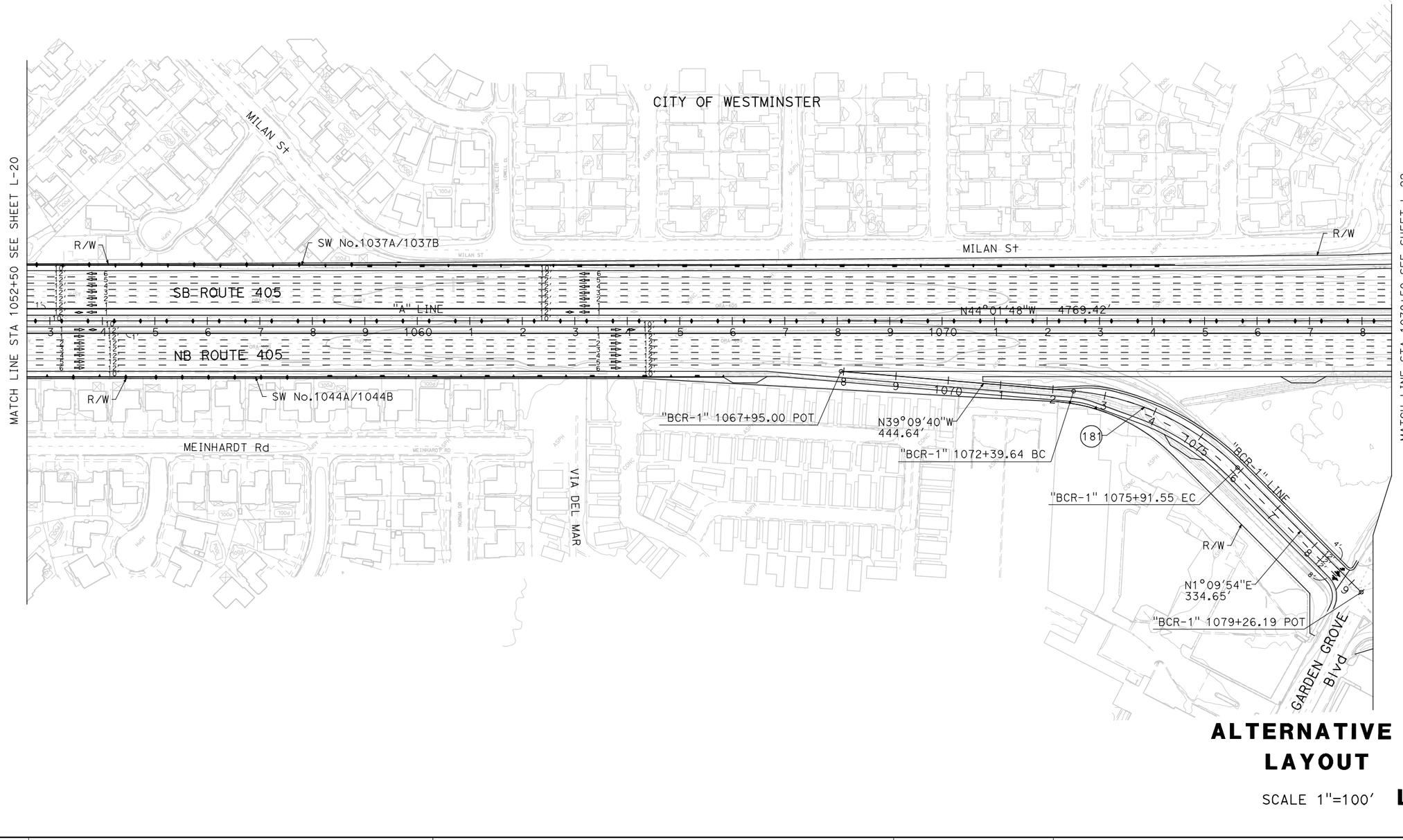
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(181)	500.00′	40°19′33"	183.60′	351.91′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-21**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
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DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 4/12/2012
TIME PLOTTED => 4:57:49 PM

BORDER LAST REVISED 7/2/2010
USERNAME => p0027660
DGN FILE => ALT 2 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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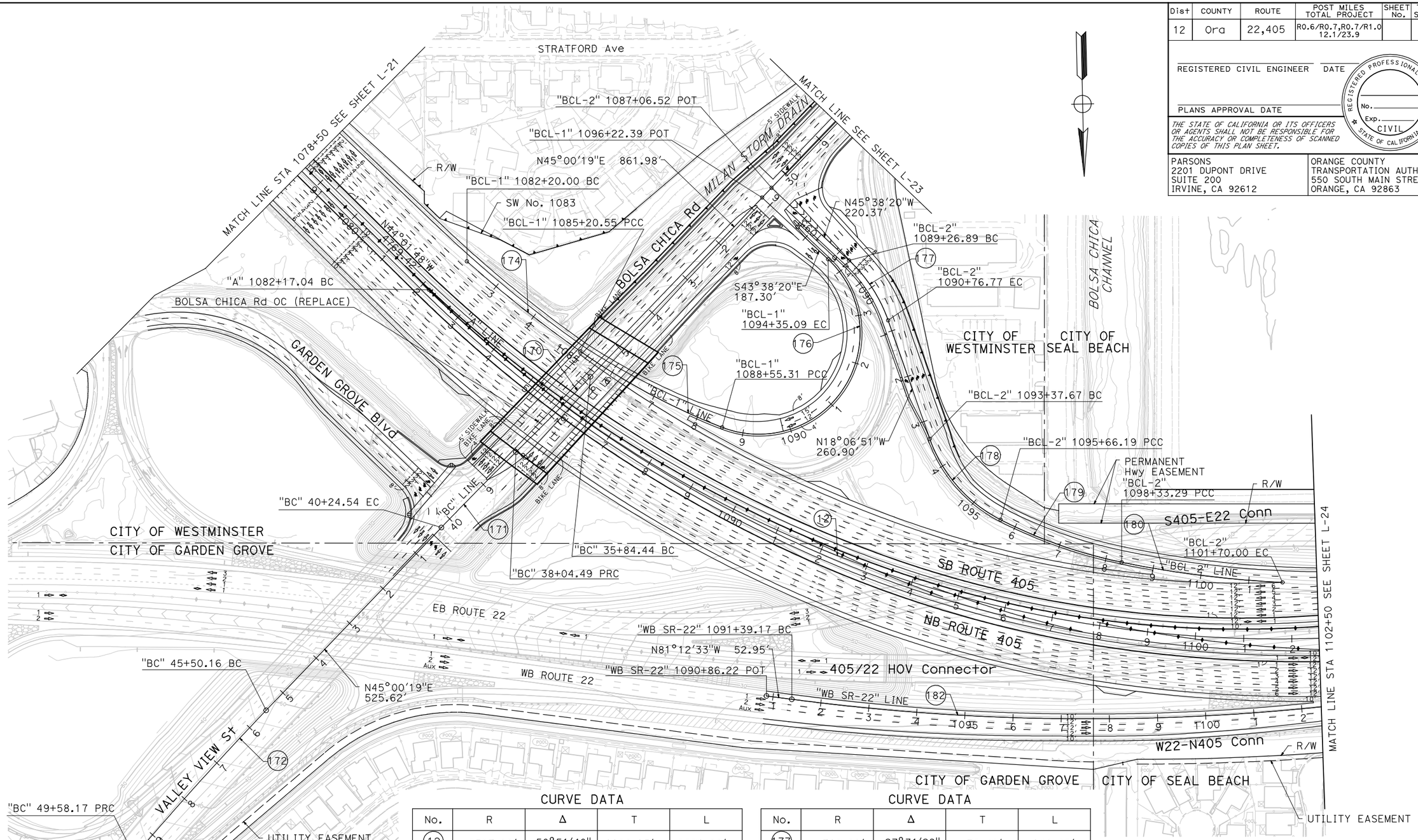

CURVE DATA

No.	R	Δ	T	L
12	2503.00′	50°51′40"	1190.15′	2221.90′
170	7000.00′	1°48′04"	110.03′	220.05′
171	7000.00′	1°48′04"	110.03′	220.05′
172	7000.00′	3°20′23"	204.06′	408.01′
173	7000.00′	3°20′52"	204.56′	409.00′
174	2615.00′	6°35′07"	150.44′	300.55′
175	1386.70′	13°49′54"	168.20′	334.76′
176	210.00′	158°11′04"	1089.72′	579.78′

CURVE DATA

No.	R	Δ	T	L
177	312.00′	27°31′29"	76.42′	149.88′
178	300.00′	43°38′39"	120.13′	228.52′
179	1000.00′	15°18′15"	134.35′	267.11′
180	2115.00′	9°07′17"	168.71′	336.71′
182	4686.90′	14°35′16"	599.90′	1193.32′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-22**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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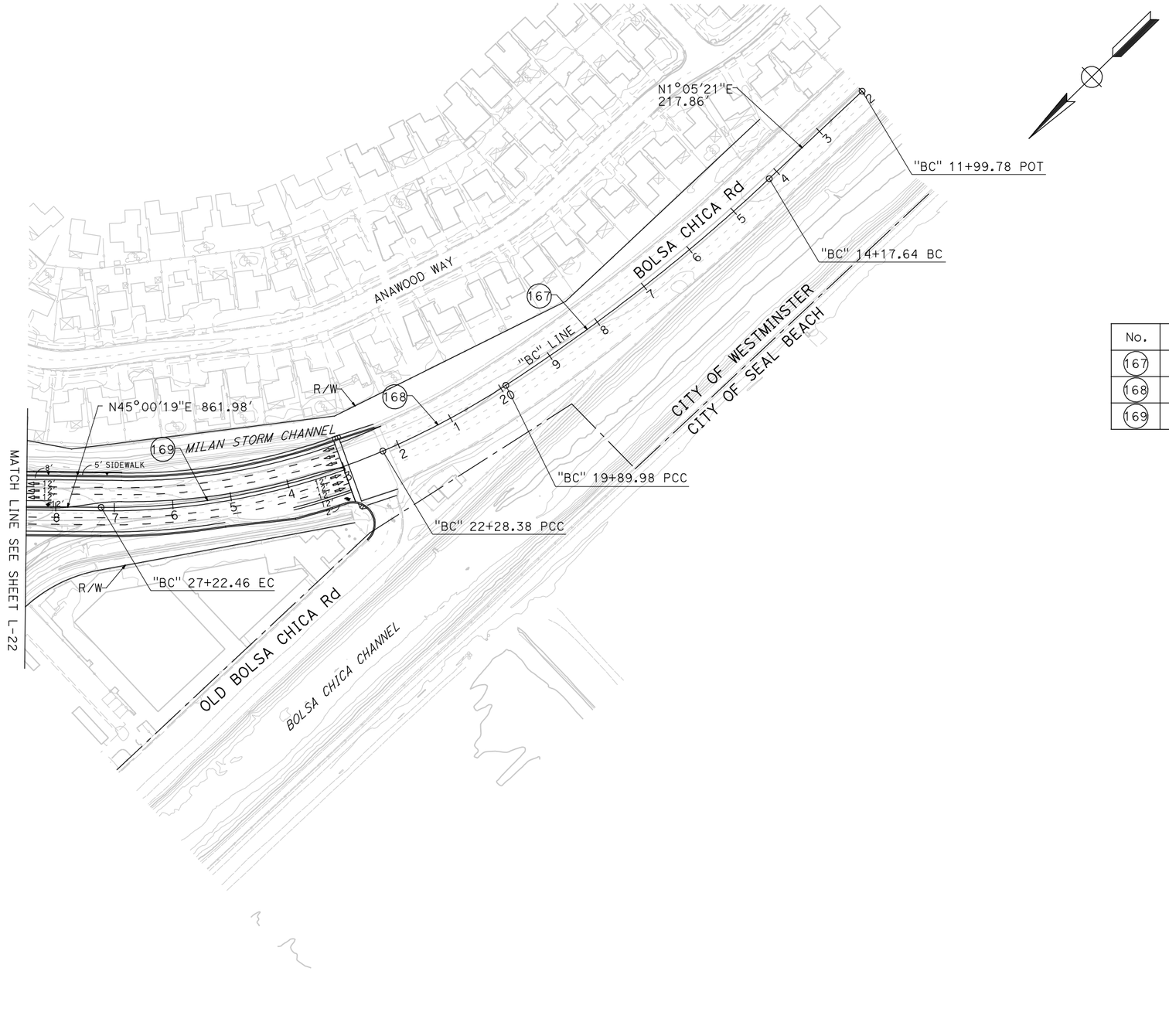
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
167	3178.45′	10°19′02"	286.94′	572.34′
168	1412.63′	9°40′09"	119.48′	238.40′
169	1183.00′	23°55′47"	250.70′	494.08′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-23**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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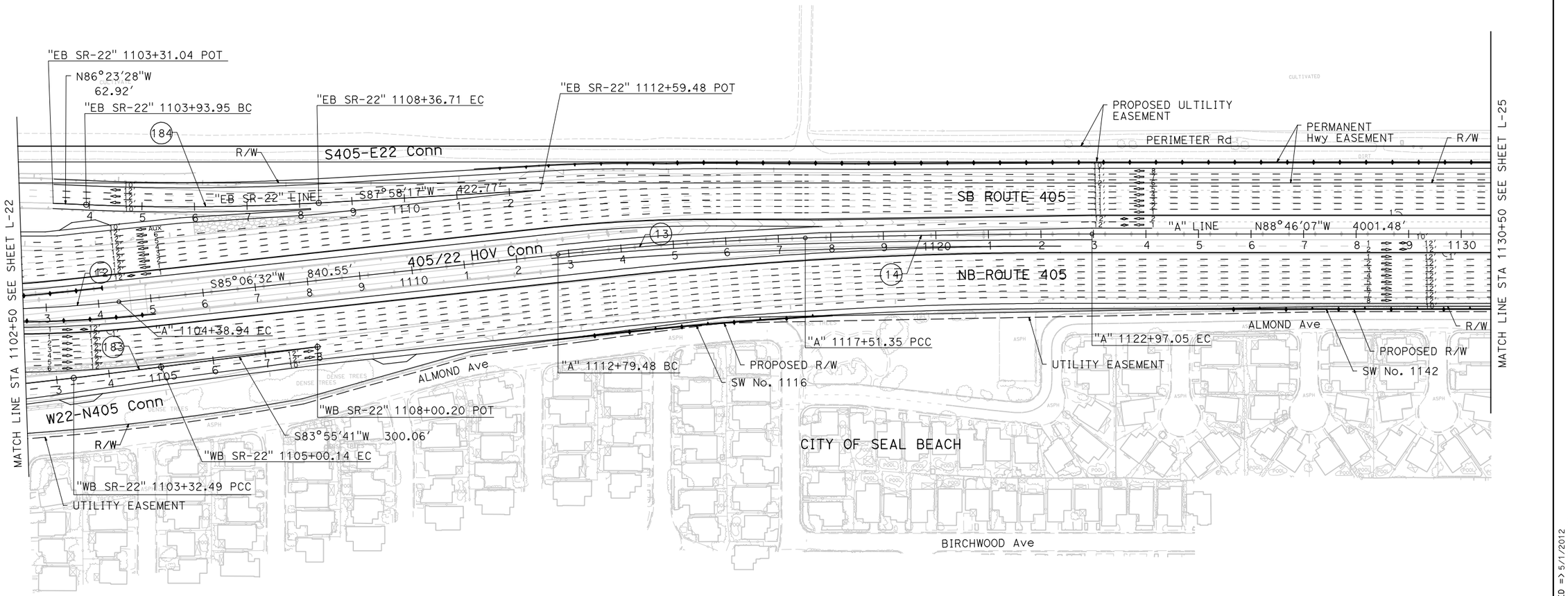
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
12	2503.00′	50°51′40"	1190.15′	2221.90′
13	5930.00′	4°33′33"	236.06′	471.87′
14	20000.00′	1°33′48"	272.86′	545.69′
183	34963.56′	0°16′29"	83.83′	167.65′
184	4500.00′	5°38′15"	221.56′	422.76′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-24**

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BORDER LAST REVISED 7/2/2010 | USERNAME => p0027660 DGN FILE => ALT 2 Layout Sheets.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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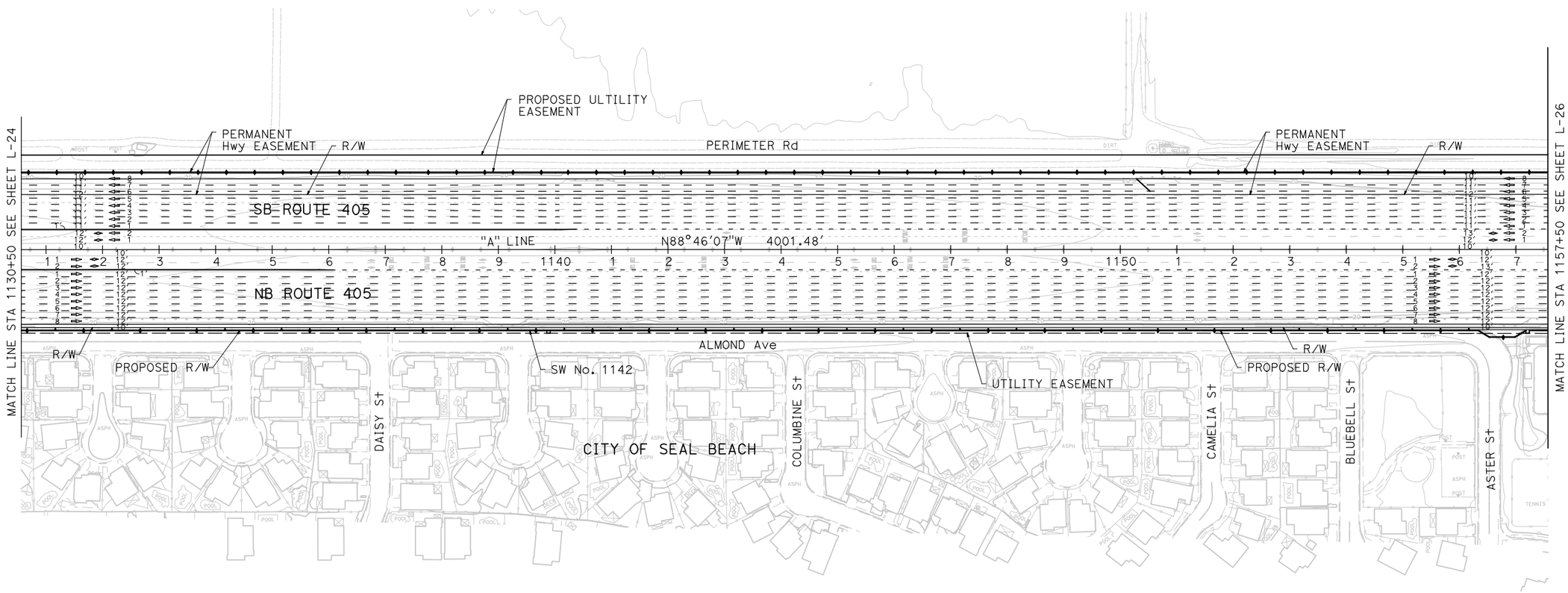
ORANGE, CA 92863



ALTERNATIVE 2 LAYOUT

SCALE 1"=100' **L-25**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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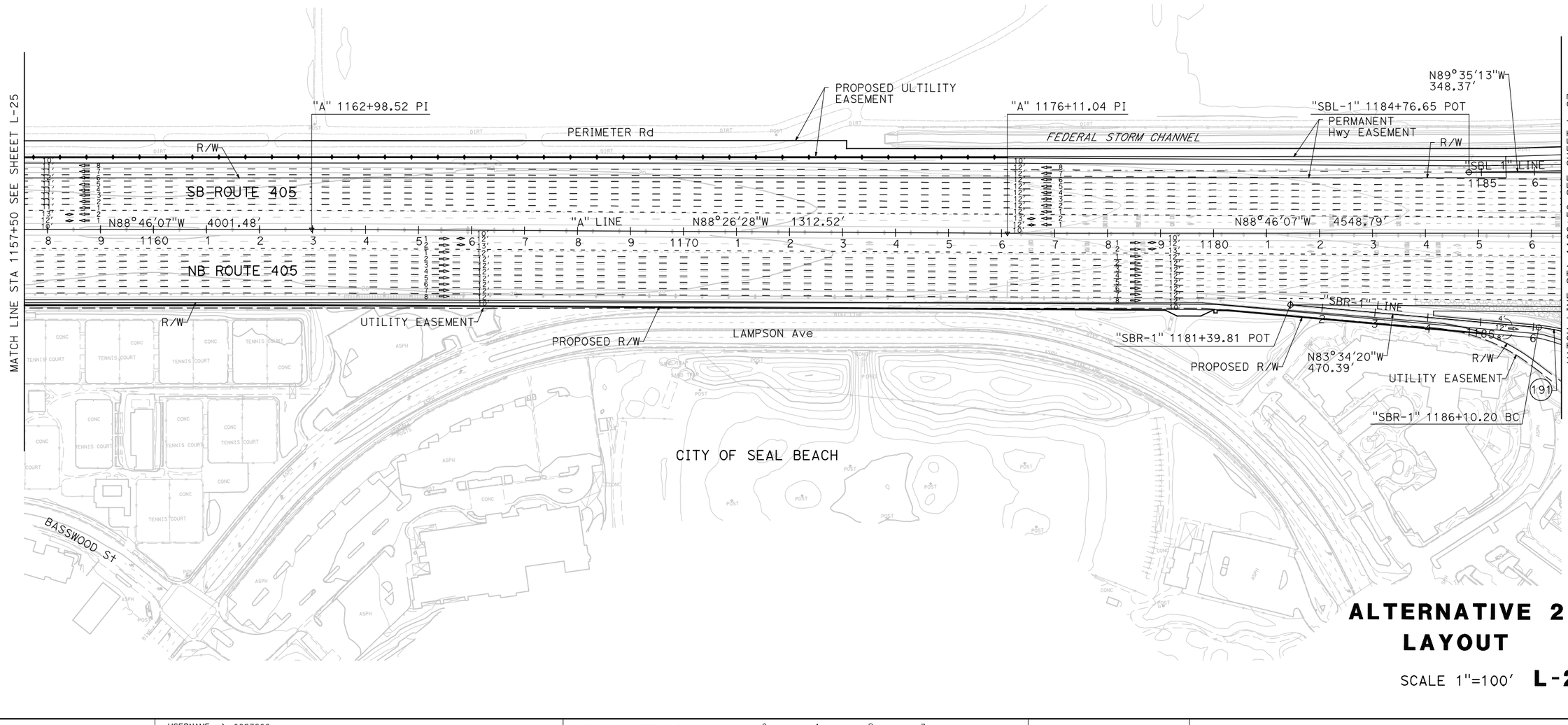
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(191)	300.00′	35°18′36"	95.48′	184.88′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-26**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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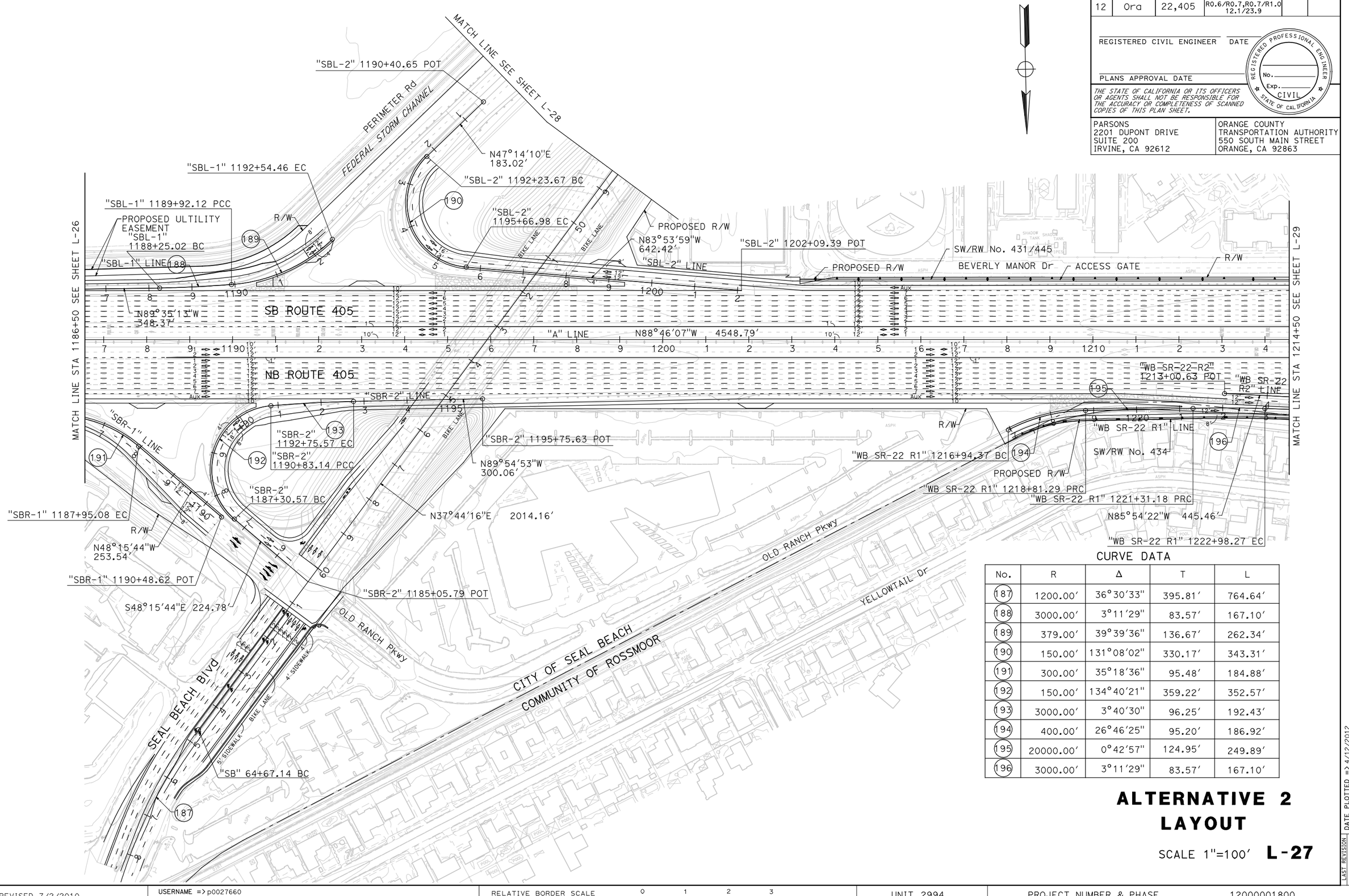

CURVE DATA

No.	R	Δ	T	L
187	1200.00′	36°30′33"	395.81′	764.64′
188	3000.00′	3°11′29"	83.57′	167.10′
189	379.00′	39°39′36"	136.67′	262.34′
190	150.00′	131°08′02"	330.17′	343.31′
191	300.00′	35°18′36"	95.48′	184.88′
192	150.00′	134°40′21"	359.22′	352.57′
193	3000.00′	3°40′30"	96.25′	192.43′
194	400.00′	26°46′25"	95.20′	186.92′
195	20000.00′	0°42′57"	124.95′	249.89′
196	3000.00′	3°11′29"	83.57′	167.10′

ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-27**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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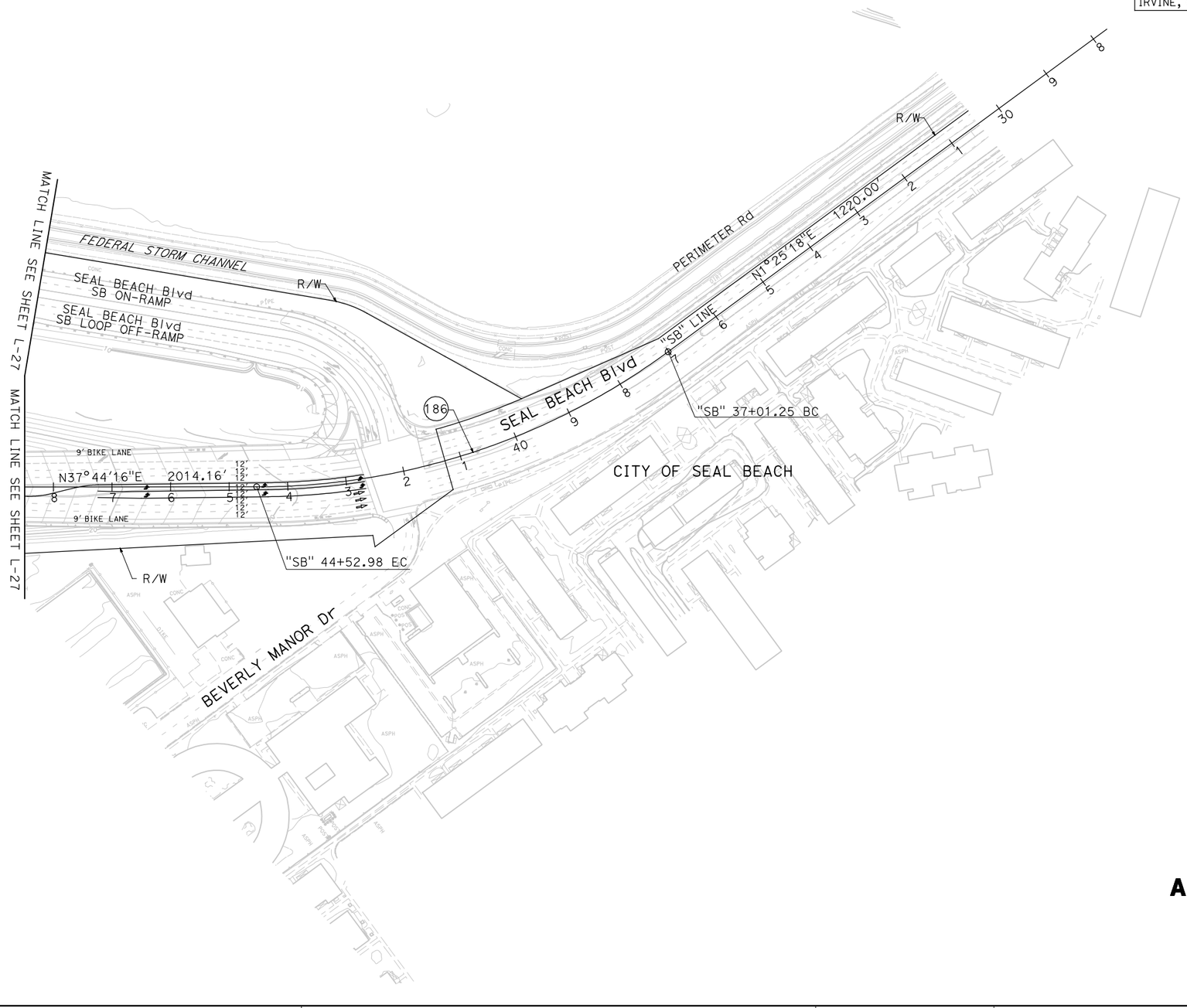
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
186	1186.00′	36°18′58"	388.98′	751.73′



ALTERNATIVE 2
LAYOUT

SCALE 1"=100′ **L-28**

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TIME PLOTTED => 4:58:26 PM

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

REGISTERED CIVIL ENGINEER DATE

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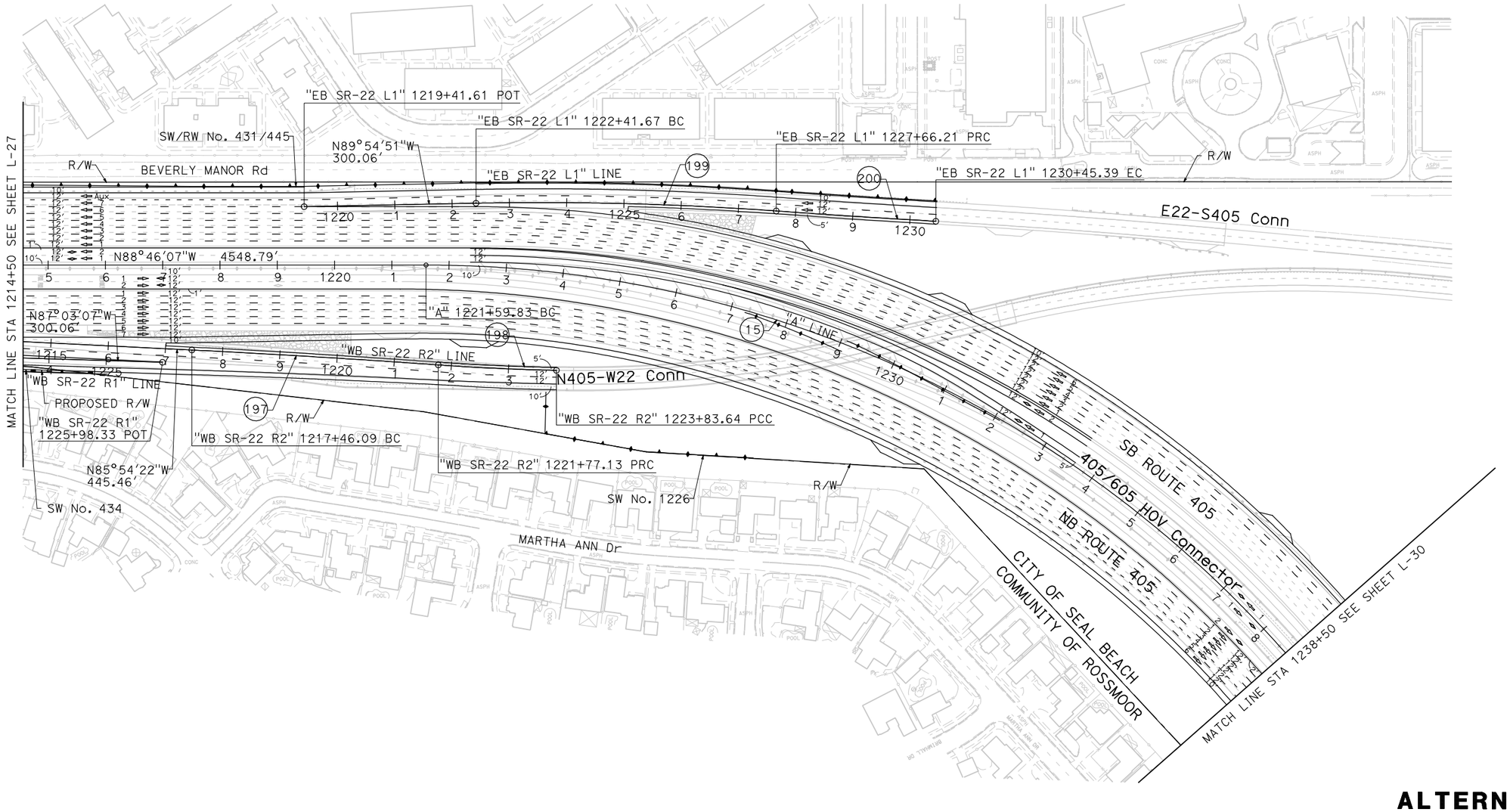
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
15	2000.00′	58°25′06"	1118.18′	2039.19′
197	20000.00′	1°14′05"	215.53′	431.04′
198	3967.24′	2°58′57"	103.28′	206.51′
199	5720.87′	5°15′12"	262.45′	524.54′
200	20000.00′	0°47′59"	139.60′	279.19′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-29**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	22,405	R0.6/R0.7,R0.7/R1.0 12.1/23.9		

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PLANS APPROVAL DATE

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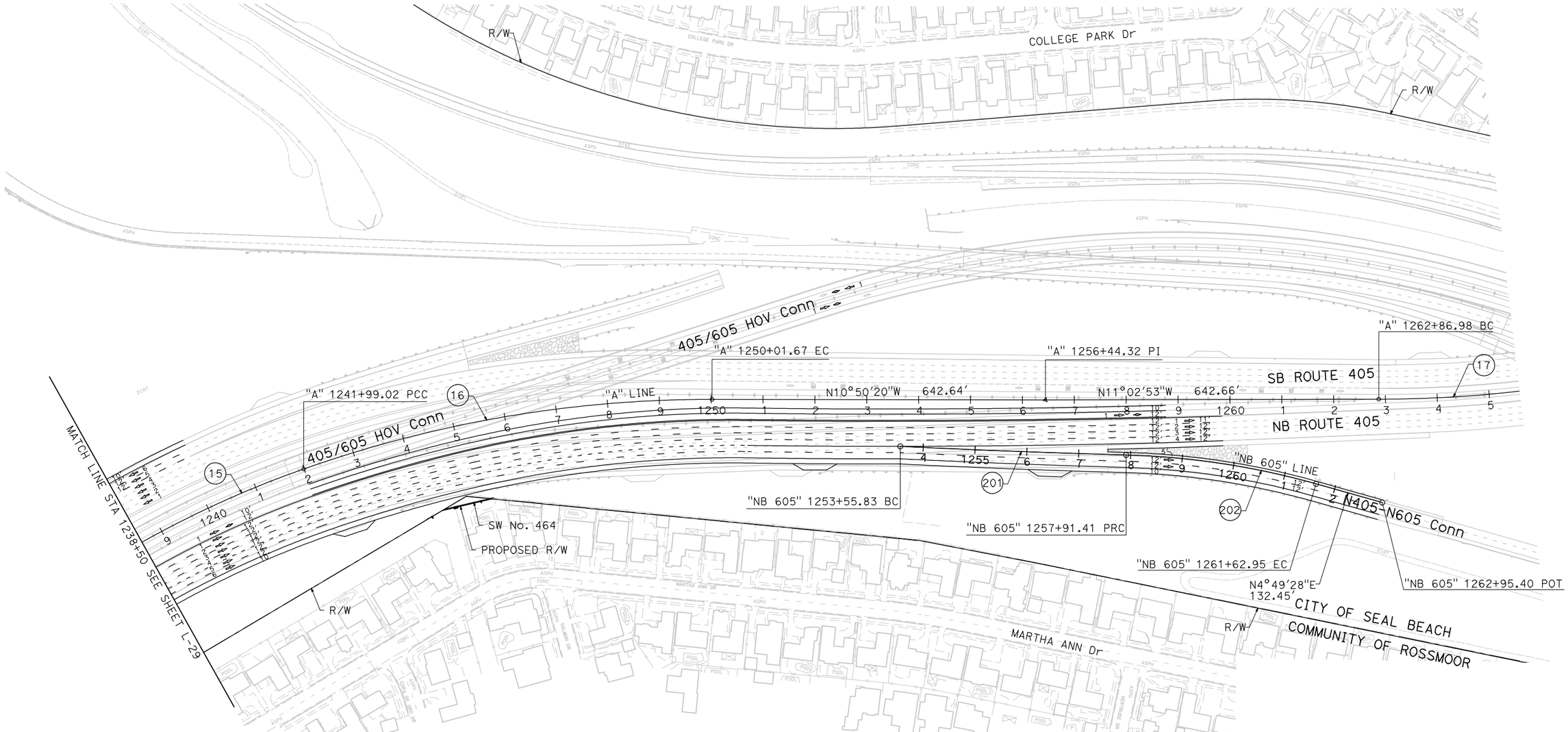
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
15	2000.00′	58°25′06"	1118.18′	2039.19′
16	2357.00′	19°30′42"	405.25′	802.65′
17	2400.00′	36°15′41"	785.86′	1518.91′
201	20062.00′	1°14′38"	217.80′	435.58′
202	1500.00′	14°11′30"	186.72′	371.54′



ALTERNATIVE 2 LAYOUT

SCALE 1"=100′ **L-30**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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P3: Alternative 3 Project Plans

INDEX OF PLANS

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN LOS ANGELES AND ORANGE COUNTIES
IN COSTA MESA, FOUNTAIN VALLEY, WESTMINSTER,
HUNTINGTON BEACH, GARDEN GROVE, SEAL BEACH, ROSSMOOR, AND LONG BEACH
ON ROUTE 22 FROM ROUTE 405 TO 0.2 MILE
EAST OF BEACH BOULEVARD UNDERCROSSING
ON ROUTE 22 FROM 0.2 MILE WEST OF ROUTE 605 TO ROUTE 405
ON ROUTE 73 FROM 0.1 MILE SOUTH OF BEAR STREET OVERCROSSING
TO N73-N405 CONNECTOR OVERCROSSING
ON ROUTE 405 FROM 0.2 MILE SOUTH OF BRISTOL STREET OVERCROSSING
TO 1.4 MILES NORTH OF ROUTE 405/605 SEPARATION
AND ON ROUTE 605 FROM ROUTE 405/605 SEPARATION TO 0.9 MILE
NORTH OF SPRING STREET OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

LOCATION MAP

Caltrans

Begin Work
Sta 461+45

BEGIN CONSTRUCTION
(ROUTE 73)
Sta "SR73 Conn" 514+25
PM R7.1 (Ora)

END CONSTRUCTION (ROUTE 73)
Sta "SR73 Conn" 561+77 PM R8.0 (Ora)

HUNTINGTON BEACH

END CONSTRUCTION
(ROUTE 22)
Sta "EB-SR22-L1" 1226+43
PM R0.7 (Ora)

END CONSTRUCTION (ROUTE 405)
Sta "A" 1338+87 PM R1.2 (LA)

BEGIN CONSTRUCTION
(ROUTE 22)
Sta "EB-SR22-L1" 1236+99
PM R0.5 (Ora)

End Work
Sta 1289+79

HARBOR Blvd UC
BRIDGE No.55-0257
HARBOR Blvd
ON-RAMP UC
BRIDGE No.55-XXXX
SERVICE Rd UC
BRIDGE No. 55-0259
SANTA ANA RIVER Br/Euclid St UC
BRIDGE No.55-0258
EUCLID St ON-RAMP Br
(SANTA ANA RIVER)
BRIDGE No.55-XXXX
EUCLID St ON-RAMP Br
(OCSD DRIVEWAY)
BRIDGE No.55-XXXX
WARNER Ave OC
BRIDGE No.55-0263
ROUTE WB 39/SB 405 RAMP Conn
BRIDGE No.55-XXXX
McFADDEN Ave OC
BRIDGE No.55-0268
BOLSA OH
BRIDGE No.55-0269
GOLDENWEST St OC
BRIDGE No.55-0271
NAVY OH
BRIDGE No.55-0272
WESTMINSTER Blvd OC
BRIDGE No.55-0274
SEAL BEACH Blvd OC
MAGNOLIA St OC
BRIDGE No.55-0264

FOUNTAIN VALLEY
LOS ANGELES COUNTY
LONG BEACH
SEAL BEACH
ROSSMOOR
ORANGE COUNTY
GARDEN GROVE
WESTMINSTER
COSTA MESA

ROUTE 73
ROUTE 405
ROUTE 22
ROUTE 605
BEAR St
BRISTOL St
FAIRVIEW Rd
HARBOR Blvd
SANTA ANA RIVER
NEWHOPE St
WARD St
EUCLID St
BROOKHURST St
TALBERT Ave
SLATER Ave
BUSHARD St
WARNER Ave
NEWLAND St
MAGNOLIA St
EDINGER Ave
BEACH Blvd (ROUTE 39)
BOLSA Ave
McFADDEN Ave
GOLDENWEST St
SPRINGDALE St
EDWARDS St
WESTMINSTER Blvd
SEAL BEACH Blvd
BOLSA CHICA Rd
VALLEY VIEW St
SAN GABRIEL RIVER
ATHERTON St
STEARNS St
STUDEBAKER St
KATELLA Ave

WARD St OC
BRIDGE No.55-0429
TALBERT Ave OC
BRIDGE No.55-0260
BROOKHURST St OC
BRIDGE No.55-0402
SLATER Ave OC
BRIDGE No.55-0261
BUSHARD St OC
BRIDGE No.55-0262
FAIRVIEW Rd OC
BRIDGE No.55-0432
405-73 HOV CONN SEP
BRIDGE No.55-XXXX
HEIL Ave POC
BRIDGE No.55-0407
NEWLAND St OC
BRIDGE No.55-0265
EDINGER Ave OC
BRIDGE No.55-0266
ROUTE EB 39/NB 405 RAMP Conn
BRIDGE No.55-XXXX
BOLSA Ave OC
BRIDGE No.55-0270
EDWARDS St OC
BRIDGE No.55-0273
SPRINGDALE St OC
BRIDGE No.55-0275
BOLSA CHICA Rd OC
BRIDGE No.55-0276

End Work
Sta 1391+67

END CONSTRUCTION
(ROUTE 22)
Sta "E" 1117+20
PM R0.7 (Ora)

BEGIN CONSTRUCTION
(ROUTE 605)
Sta "NB605" 1253+56
PM 3.5 (Ora)

End Work
Sta 354+75

BEGIN CONSTRUCTION (ROUTE 405)
Sta "A" 493+94 PM 9.3 (Ora)

Begin Work
Sta 441+14

Begin Work
Sta 97+98

BEGIN CONSTRUCTION
(ROUTE 22)
Sta "SR22" 150+78
PM 3.8 (Ora)

END CONSTRUCTION
(ROUTE 605)
Sta "605" 301+95
PM 1.2 (LA)

PROJECT REPORT PLANS FOR ALTERNATIVE 3

NO SCALE

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

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

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.

PARSONS 2201 DUPONT DRIVE SUITE 200 IRVINE, CA 92612	ORANGE COUNTY TRANSPORTATION AUTHORITY 550 SOUTH MAIN STREET ORANGE, CA 92863
CONTRACT No.	**12-0H1000**
PROJECT ID	**12000001800**

LAST REVISION DATE PLOTTED => 11/12/2014
00-00-00 TIME PLOTTED => 8:42:35 AM

APPROVED AS TO IMPACT ON STATE FACILITIES AND CONFORMANCE WITH APPLICABLE STATE STANDARDS AND PRACTICES AND THAT TECHNICAL OVERSIGHT WAS PERFORMED.

CONSULTANT DESIGN ENGINEER | REGISTRATION No. | LICENSE Exp DATE | DATE SIGNED
CALTRANS DESIGN OVERSIGHT APPROVAL

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => p0027660 DGN FILE => ALT_3_ Title_Sheet.dgn | UNIT 2994 | PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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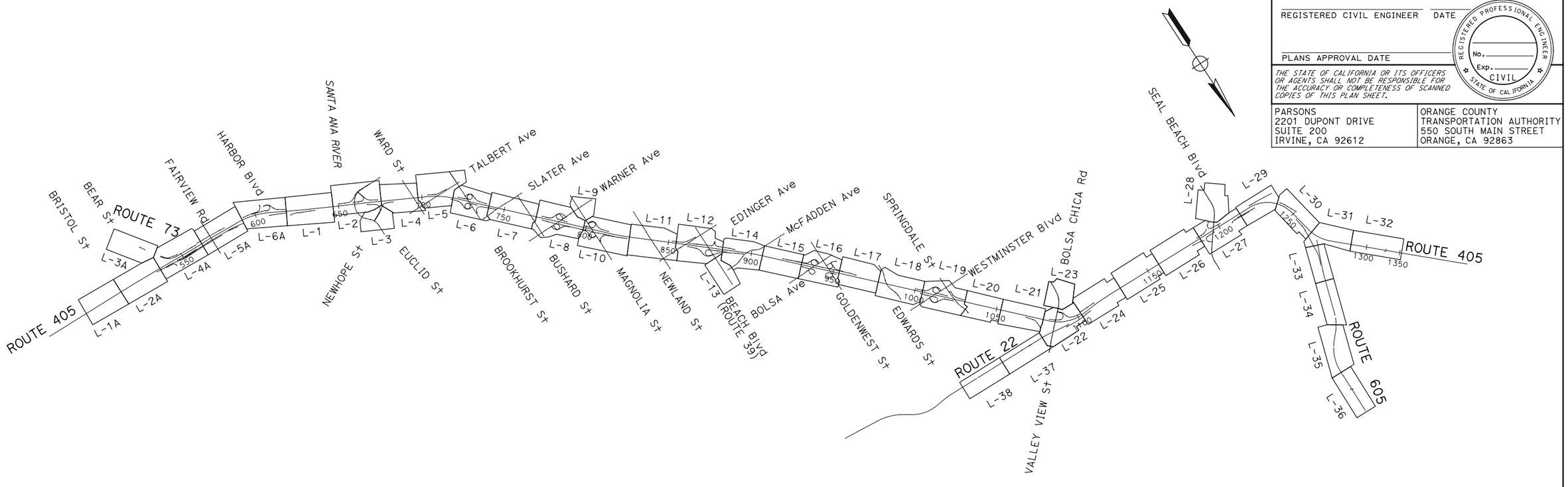
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



LINE INDEX	DESCRIPTION
"A" LINE	ROUTE 405 CENTERLINE
"BEL-1" LINE	BEAR STREET SB OFF-RAMP
"S73 Conn" LINE	ROUTE 73/ 405-73 HOV CONNECTOR
"S405-S73" LINE	S405-S73 CONNECTOR STATIONLINE
"SR-73 L-2" LINE	SR-73 FAIRVIEW ROAD SB ON-RAMP
"N73-N405" LINE	N73-N405 CONNECTOR STATIONLINE
"SCR-1" LINE	SOUTH COAST DRIVE NB OFF-RAMP
"HBR-1A" LINE	FAIRVIEW ROAD/HARBOR BOULEVARD NB C-D ROAD
"FV" LINE	FAIRVIEW ROAD CENTERLINE
"FVL-1" LINE	FAIRVIEW ROAD SB OFF-RAMP
"FVL-2" LINE	FAIRVIEW ROAD SB ON-RAMP
"FVR-1" LINE	FAIRVIEW ROAD NB OFF-RAMP
"FVR-2" LINE	FAIRVIEW ROAD NB ON-RAMP
"HBL-1" LINE	HARBOR BOULEVARD SB ON-RAMP
"HBL-2" LINE	HARBOR BOULEVARD SB LOOP ON-RAMP
"HBL-3" LINE	HARBOR BOULEVARD SB OFF-RAMP
"HBR-1" LINE	HARBOR BOULEVARD NB OFF-RAMP
"HBR-2" LINE	HARBOR BOULEVARD NB ON-RAMP
"HBR-1B" LINE	SUSAN STREET NB OFF-RAMP
"HYR-1" LINE	HYLAND AVENUE NB ON-RAMP
"EC" LINE	EUCLID STREET/ELLIS AVENUE CENTERLINE
"ECL-1" LINE	EUCLID STREET SB ON-RAMP
"ECL-2" LINE	EUCLID STREET SB LOOP ON-RAMP
"ECL-3" LINE	EUCLID STREET SB OFF-RAMP
"ECR-1" LINE	EUCLID STREET NB OFF-RAMP
"ECR-2" LINE	EUCLID STREET NB ON-RAMP
"W" LINE	WARD STREET CENTERLINE
"T" LINE	TALBERT AVENUE CENTERLINE
"TL-1" LINE	TALBERT AVENUE SB ON-RAMP
"BH" LINE	BROOKHURST STREET CENTERLINE
"BHL-1" LINE	BROOKHURST STREET SB LOOP ON-RAMP
"BHL-2" LINE	BROOKHURST STREET SB OFF-RAMP

LINE INDEX	DESCRIPTION
"BHR-1" LINE	BROOKHURST STREET NB OFF-RAMP
"BHR-2" LINE	BROOKHURST STREET NB LOOP ON-RAMP
"BHR-3" LINE	BROOKHURST STREET NB ON-RAMP
"S" LINE	SLATER AVENUE CENTERLINE
"BD" LINE	BUSHARD STREET CENTERLINE
"WN" LINE	WARNER AVENUE CENTERLINE
"WNL-1" LINE	WARNER AVENUE SB ON-RAMP
"WNL-2" LINE	WARNER AVENUE SB LOOP OFF-RAMP
"WNR-1" LINE	WARNER AVENUE NB LOOP OFF-RAMP
"WNR-2" LINE	WARNER AVENUE NB ON-RAMP
"M" LINE	MAGNOLIA STREET CENTERLINE
"ML-1" LINE	MAGNOLIA STREET SB LOOP ON-RAMP
"ML-2" LINE	MAGNOLIA STREET SB OFF-RAMP
"MR-1" LINE	MAGNOLIA STREET NB OFF-RAMP
"MR-2" LINE	MAGNOLIA STREET NB LOOP ON-RAMP
"MR-3" LINE	MAGNOLIA STREET NB ON-RAMP
"NL" LINE	NEWLAND STREET CENTERLINE
"ED" LINE	EDINGER AVENUE CENTERLINE
"EDL-1" LINE	EDINGER AVENUE SB ON-RAMP
"B" LINE	BEACH BOULEVARD (ROUTE 39) CENTERLINE
"BL-1" LINE	BEACH BOULEVARD/CENTER AVENUE SB HOOK ON-RAMP
"BL-2" LINE	BEACH BOULEVARD/CENTER AVENUE SB HOOK OFF-RAMP
"BR-1" LINE	BEACH BOULEVARD NB OFF-RAMP
"BR-2" LINE	BEACH BOULEVARD NB LOOP ON-RAMP
"BR-3" LINE	BEACH BOULEVARD NB ON-RAMP
"MF" LINE	McFADDEN AVENUE CENTERLINE
"BGL-1" LINE	BOLSA AVENUE/GOLDENWEST STREET SB C-D ROAD
"BS" LINE	BOLSA AVENUE CENTERLINE
"BSL-1" LINE	BOLSA AVENUE SB ON-RAMP
"BSL-2" LINE	BOLSA AVENUE SB LOOP OFF-RAMP
"BSR-1" LINE	BOLSA AVENUE NB LOOP OFF-RAMP
"GW" LINE	GOLDENWEST STREET CENTERLINE

LINE INDEX	DESCRIPTION
"E" LINE	WESTMINSTER MALL CENTERLINE
"GWL-1" LINE	GOLDENWEST STREET/WESTMINSTER MALL SB LOOP ON-RAMP
"GWL-2" LINE	GOLDENWEST STREET/WESTMINSTER MALL SB OFF-RAMP
"GWR-1" LINE	GOLDENWEST STREET NB LOOP ON-RAMP
"EW" LINE	EDWARDS STREET CENTERLINE
"WM" LINE	WESTMINSTER BOULEVARD CENTERLINE
"WML-1" LINE	WESTMINSTER BOULEVARD SB ON-RAMP
"WML-2" LINE	WESTMINSTER BOULEVARD SB LOOP OFF-RAMP
"WMR-1" LINE	WESTMINSTER BOULEVARD NB LOOP OFF-RAMP
"WMR-2" LINE	WESTMINSTER BOULEVARD NB ON-RAMP
"SD" LINE	SPRINGDALE STREET CENTERLINE
"SDL-1" LINE	SPRINGDALE STREET SB OFF-RAMP
"BC" LINE	BOLSA CHICA ROAD/VALLEY VIEW STREET CENTERLINE
"BCL-1" LINE	BOLSA CHICA ROAD SB LOOP ON-RAMP
"BCL-2" LINE	BOLSA CHICA ROAD SB OFF-RAMP
"BCR-1" LINE	GARDEN GROVE BOULEVARD NB OFF-RAMP
"SR22" LINE	EXIST ROUTE 22 CENTERLINE
"H" LINE	405-22 HOV CONNECTOR CENTERLINE
"E1" LINE	S405-E22 CONNECTOR STATIONLINE (WEST OF VALLEY VIEW STREET)
"W1" LINE	W22-N405 CONNECTOR STATIONLINE (EAST OF VALLEY VIEW STREET)
"WB SR-22" LINE	W22-N405 CONNECTOR STATIONLINE (WEST OF VALLEY VIEW STREET)
"EB SR-22" LINE	S405-E22 CONNECTOR STATIONLINE (EAST OF VALLEY VIEW STREET)
"SB" LINE	SEAL BEACH BOULEVARD CENTERLINE
"SBL-1" LINE	SEAL BEACH BOULEVARD SB ON-RAMP
"SBL-2" LINE	SEAL BEACH BOULEVARD SB LOOP OFF-RAMP
"SBR-1" LINE	SEAL BEACH BOULEVARD NB OFF-RAMP
"SBR-2" LINE	SEAL BEACH BOULEVARD NB LOOP ON-RAMP
"WB SR-22 R1" LINE	OLD RANCH PARKWAY NB ON-RAMP
"WB SR-22 R2" LINE	N405-W22 CONNECTOR CENTERLINE
"EB SR-22 L1" LINE	E22-S405 CONNECTOR CENTERLINE
"S605-S405" LINE	S605-S405 CONNECTOR CENTERLINE
"NB 605" LINE	N405-N605 CONNECTOR CENTERLINE
"I605" LINE	ROUTE 605 CENTERLINE

ALTERNATIVE 3 KEY MAP

NO SCALE

K-1

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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PARSONS
2201 DUPONT DRIVE
SUITE 200
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ORANGE COUNTY
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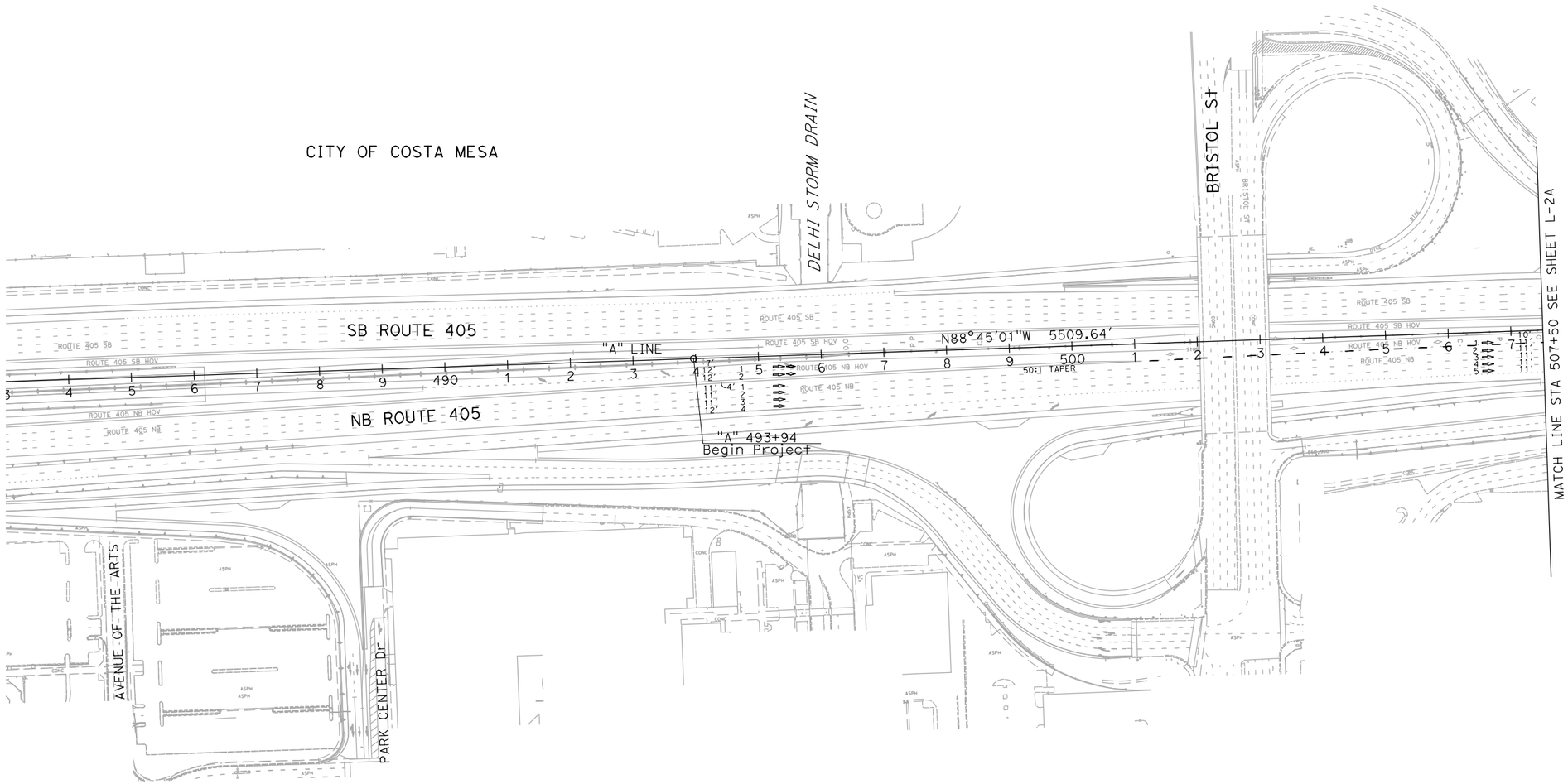
550 SOUTH MAIN STREET
ORANGE, CA 92863



ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-1A**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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550 SOUTH MAIN STREET
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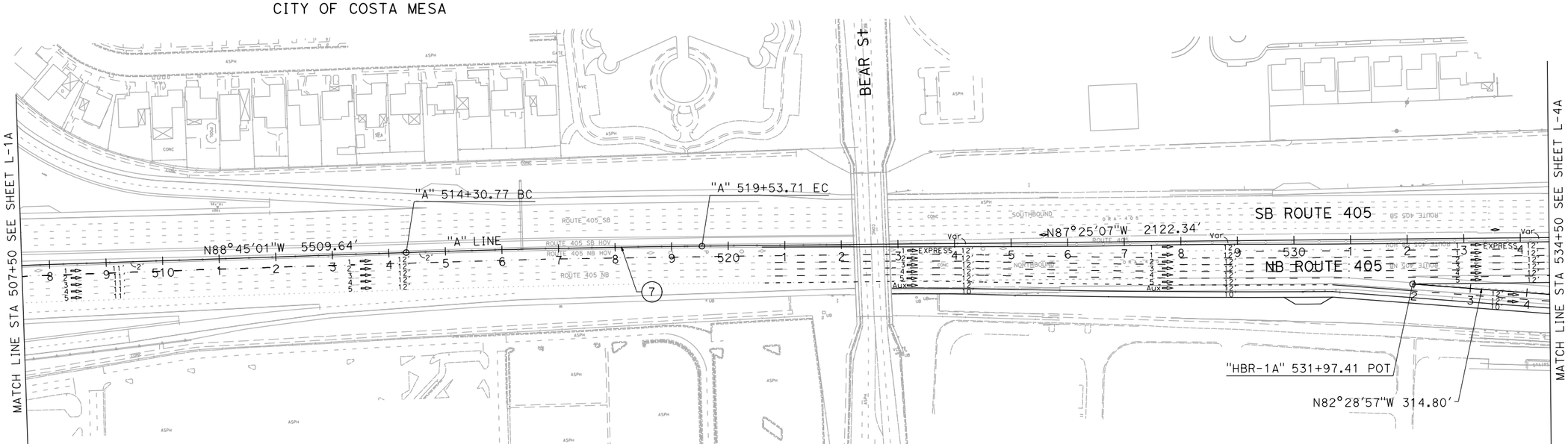
CURVE DATA

No.	R	Δ	T	L
(7)	22500.00′	1°19′54"	261.48′	522.94′

CITY OF COSTA MESA



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-2A**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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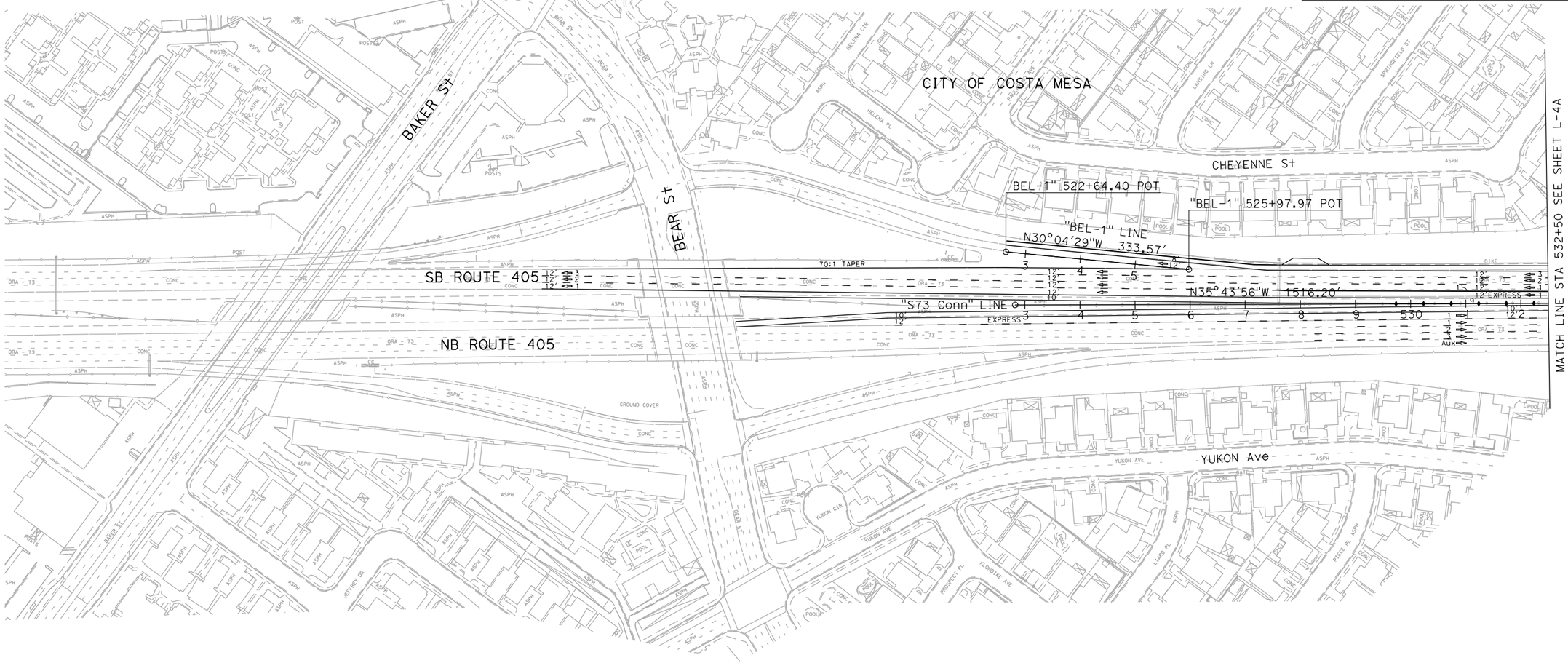

ALTERNATIVE 3
LAYOUT

SCALE 1"=100' **L-3A**

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DATE PLOTTED => 12/8/2014
TIME PLOTTED => 4:17:05 PM

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USERNAME => p004075A
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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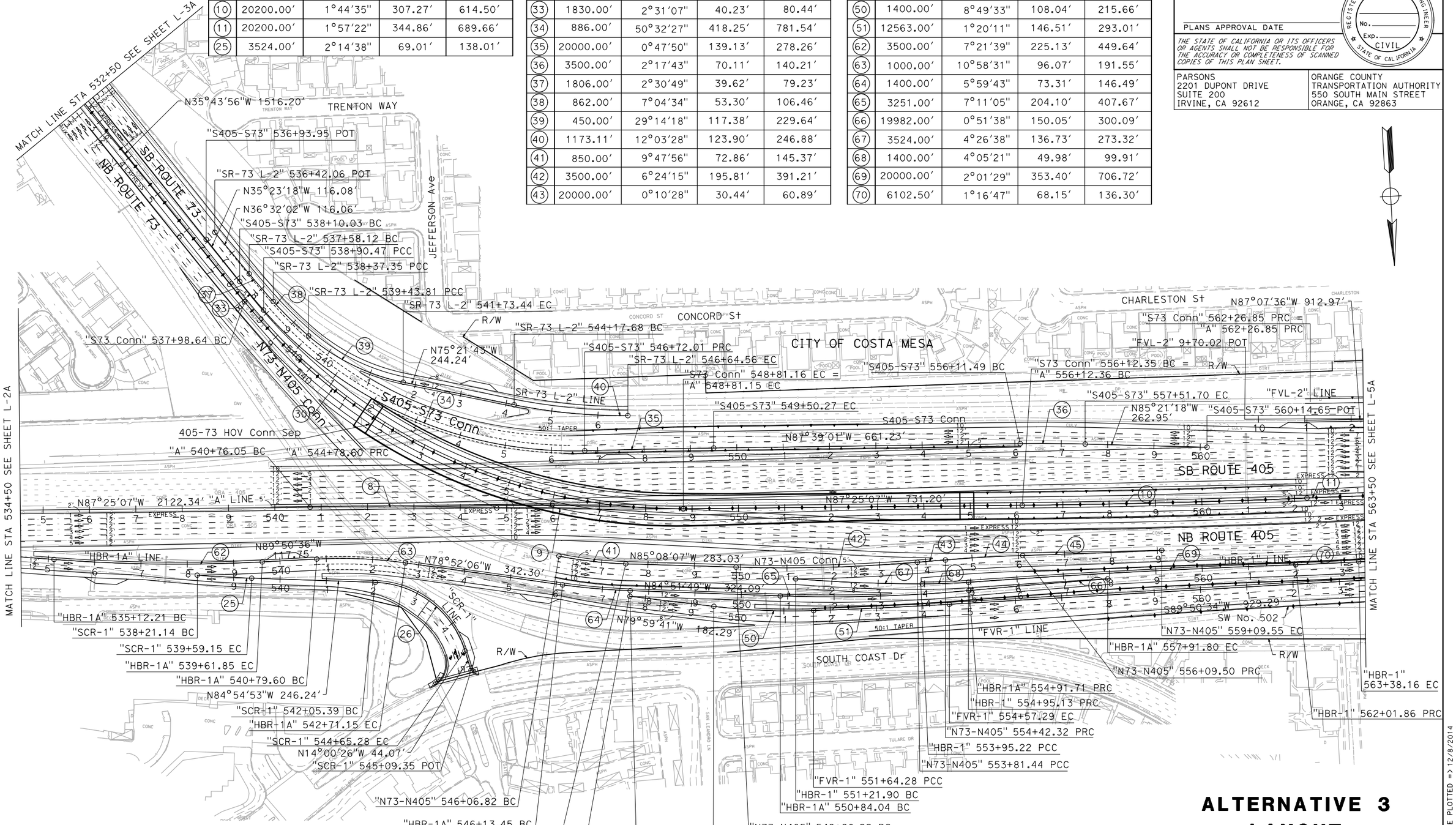
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(8)	14090.00′	1°38′13"	201.29′	402.55′
(9)	14090.00′	1°38′13"	201.29′	402.55′
(10)	20200.00′	1°44′35"	307.27′	614.50′
(11)	20200.00′	1°57′22"	344.86′	689.66′
(25)	3524.00′	2°14′38"	69.01′	138.01′
(26)	210.00′	70°54′27"	149.54′	259.89′
(30)	1200.00′	51°41′11"	581.22′	1082.52′
(33)	1830.00′	2°31′07"	40.23′	80.44′
(34)	886.00′	50°32′27"	418.25′	781.54′
(35)	20000.00′	0°47′50"	139.13′	278.26′
(36)	3500.00′	2°17′43"	70.11′	140.21′
(37)	1806.00′	2°30′49"	39.62′	79.23′
(38)	862.00′	7°04′34"	53.30′	106.46′
(39)	450.00′	29°14′18"	117.38′	229.64′
(40)	1173.11′	12°03′28"	123.90′	246.88′
(41)	850.00′	9°47′56"	72.86′	145.37′
(42)	3500.00′	6°24′15"	195.81′	391.21′
(43)	20000.00′	0°10′28"	30.44′	60.89′
(44)	3041.00′	3°08′59"	83.61′	167.17′
(45)	20308.30′	0°50′47"	150.03′	300.05′
(50)	1400.00′	8°49′33"	108.04′	215.66′
(51)	12563.00′	1°20′11"	146.51′	293.01′
(62)	3500.00′	7°21′39"	225.13′	449.64′
(63)	1000.00′	10°58′31"	96.07′	191.55′
(64)	1400.00′	5°59′43"	73.31′	146.49′
(65)	3251.00′	7°11′05"	204.10′	407.67′
(66)	19982.00′	0°51′38"	150.05′	300.09′
(67)	3524.00′	4°26′38"	136.73′	273.32′
(68)	1400.00′	4°05′21"	49.98′	99.91′
(69)	20000.00′	2°01′29"	353.40′	706.72′
(70)	6102.50′	1°16′47"	68.15′	136.30′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-4A**

LAST REVISION 00-00-00
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

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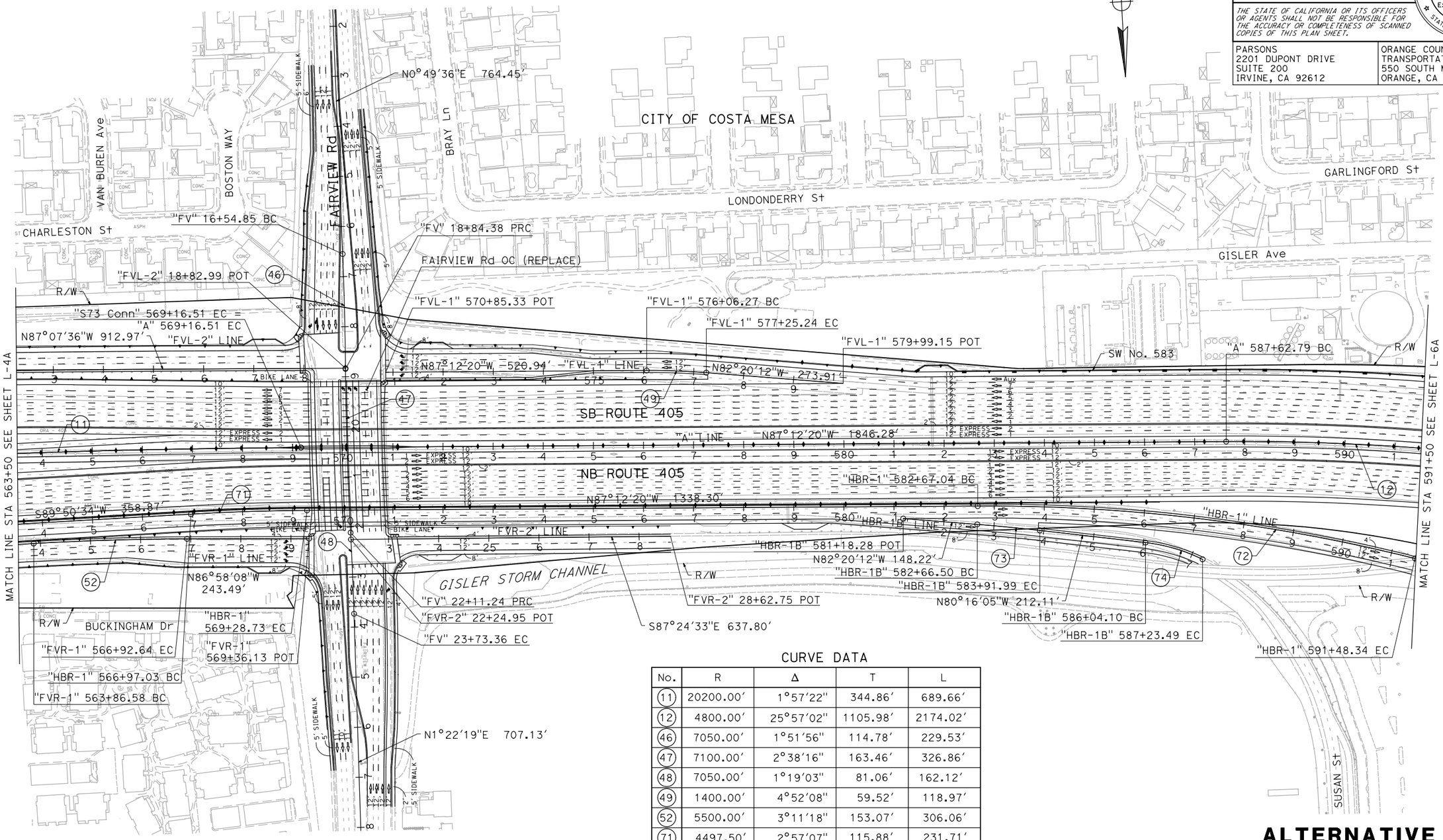

CURVE DATA

No.	R	Δ	T	L
(11)	20200.00′	1°57′22"	344.86′	689.66′
(12)	4800.00′	25°57′02"	1105.98′	2174.02′
(46)	7050.00′	1°51′56"	114.78′	229.53′
(47)	7100.00′	2°38′16"	163.46′	326.86′
(48)	7050.00′	1°19′03"	81.06′	162.12′
(49)	1400.00′	4°52′08"	59.52′	118.97′
(52)	5500.00′	3°11′18"	153.07′	306.06′
(71)	4497.50′	2°57′07"	115.88′	231.71′
(72)	3500.00′	14°25′38"	442.99′	881.30′
(73)	3476.00′	2°04′06"	62.75′	125.49′
(74)	350.00′	19°32′44"	60.28′	119.40′

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-5A**

LAST REVISION | DATE PLOTTED => 12/8/2014
00-00-00 | TIME PLOTTED => 4:17:08 PM

CURVE DATA

No.	R	Δ	T	L
(12)	4800.00′	25°57′02"	1105.98′	2174.02′
(53)	4921.00′	3°29′49"	150.22′	300.34′
(54)	20000.00′	0°45′38"	132.73′	265.47′
(55)	1350.00′	8°10′36"	96.49′	192.66′
(56)	280.00′	89°40′58"	278.45′	438.27′
(57)	4909.00′	3°30′16"	150.17′	300.24′
(58)	1350.00′	9°29′31"	112.08′	223.65′
(59)	164.00′	204°12′03"	-	584.49′
(60)	300.00′	67°51′48"	201.83′	355.33′
(61)	500.00′	34°08′09"	153.51′	297.89′
(75)	3500.00′	3°27′14"	105.52′	210.98′
(76)	3000.00′	1°54′35"	132.64′	265.10′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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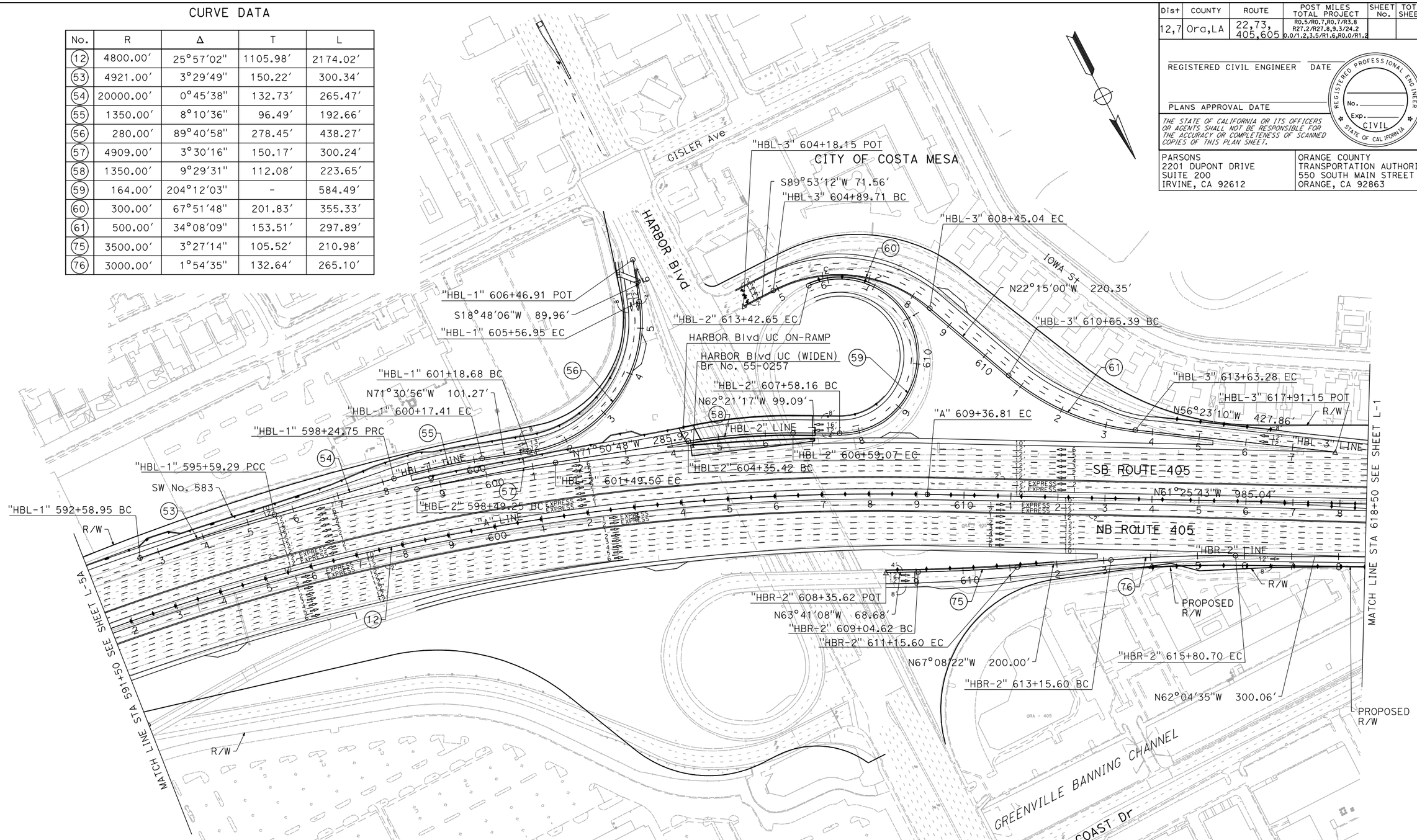

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-6A**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans®

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USERNAME => p004075A
DGN FILE => ALT 3 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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PLANS APPROVAL DATE

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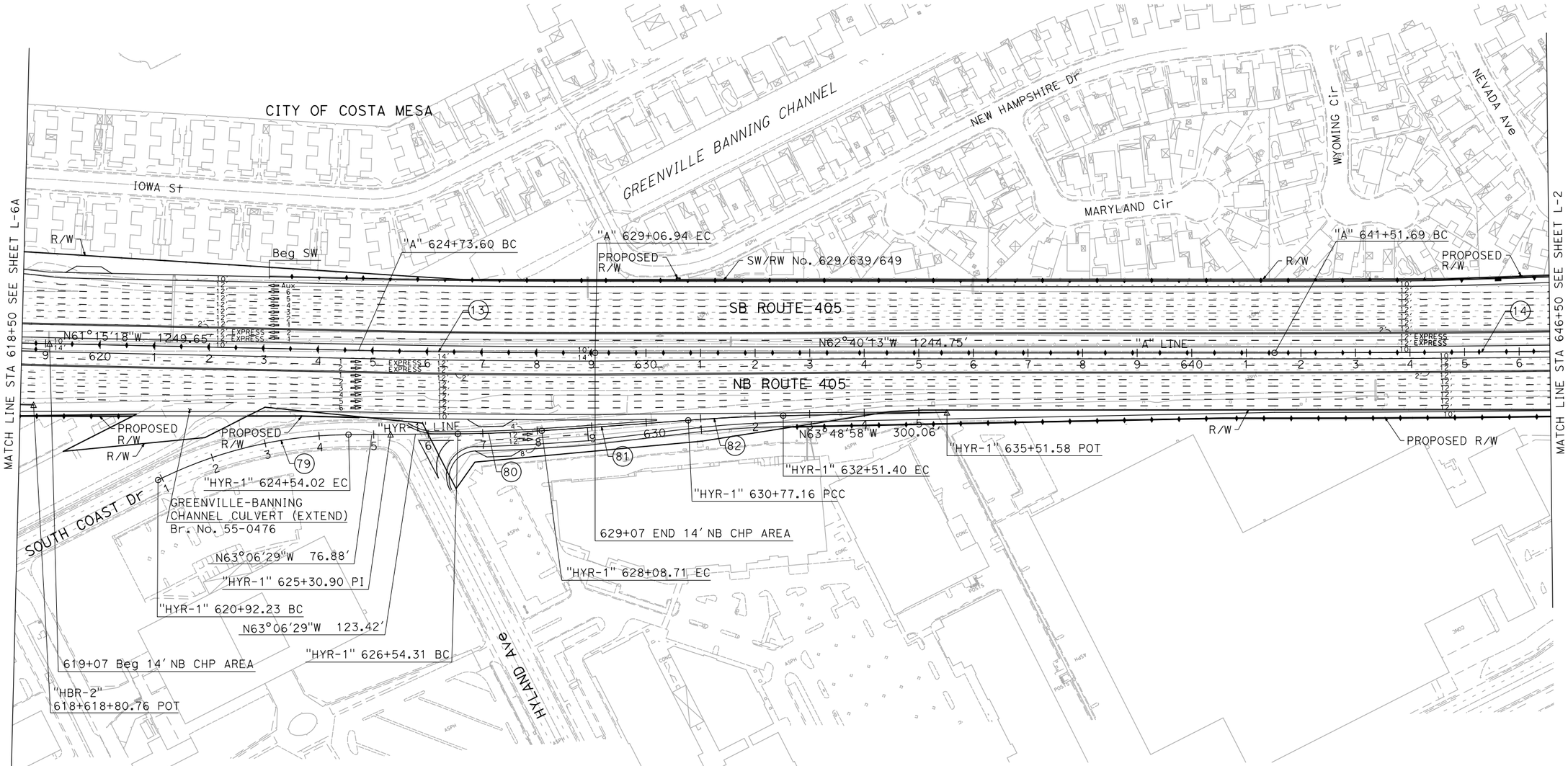
PARSONS
2201 DUPONT DRIVE
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
(13)	20000.00′	1°24′55"	247.03′	494.04′
(14)	20000.00′	0°45′13"	131.52′	263.04′
(79)	800.00′	25°54′40"	184.04′	361.79′
(80)	2700.00′	3°15′54"	76.95′	153.86′
(81)	20000.00′	0°46′14"	134.49′	268.98′
(82)	3000.00′	3°19′40"	87.15′	174.24′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-1**

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DGN FILE => ALT 3 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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ORANGE, CA 92863

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CITY OF COSTA MESA

SANTA ANA RIVER

CITY OF FOUNTAIN VALLEY

MATCH LINE STA 466+50 SEE RIGHT

MATCH LINE STA 466+50 SEE LEFT

"EC" 459+95.65 POB

EUCLID St ON-RAMP Conn Br (NEW)
OVER OCSD DRIVEWAY

EUCLID St ON-RAMP Conn Br (NEW)
OVER SANTA ANA RIVER

SANTA ANA RIVER Br (WIDEN)
Br No. 55-0258

S89°32'09"E 1349.85'

5' SIDEWALK

8' SIDEWALK

PROPOSED R/W

"ECL-1" 673+38.00 EC

"ECL-1" 671+74.40 PRC

"ECL-1" 670+96.63 BC

"ECL-1" 668+71.10 EC

N89°37'45"W
225.53'

"ECL-1" 667+71.46 BC

N87°43'34"W 155.26'

"ECL-1" 666+16.20 EC

"EC" 473+45.50 BC

"ECL-1" 662+43+63 BC

"ECL-3" 660+05.02 POT

N15°59'57"W
350.58'

S59°11'36"W
422.53'

"ECL-1" 660+21.09 EC

"ECL-2"
671+28.27 POE

"ECL-3" 663+55.60 BC

S15°59'57"E 362.74'

"ECL-3" 665+30.31 PRC

"ECL-1" 655+71.91 PCC

SERVICE ROAD UC
(BOX CULVERT)

"ECL-1" 655+75.46 PCC

"ECL-1" 653+59.28 BC

"ECL-1" 650+58.33 POT

SW/RW No. 629/639/649

"ECL-2" 667+61.89 EC

"EC" 481+78.53 EC

"ECL-2"
663+81.74 PCC

"ECL-2"
662+08.67 BC

"ECL-3" 673+20.40 POT

671+30 Beg 14' SB CHP AREA

"ECL-3" 668+99.47 EC

SPENCER Ave
N57°48'05"W 420.93'

PROPOSED R/W

N64°34'11"W
300.95'

N64°34'11"W
300.06'

"ECL-2" LINE

"ECL-1" LINE

"A" LINE

SB ROUTE 405

NB ROUTE 405

N63°25'26"W T450.83'

N62°40'13"W 3543.93'

N57°18'11"W 472.74'

"ECR-1" LINE

"A" 661+28.60 BC

"EC" 483+95.94 BC

"A" 666+54.69 EC

"ECR-1" 671+36.03 BC

"ECR-1" 666+63.29 POT

"A" 646+77.77 EC

SERVICE ROAD UC
(BOX CULVERT)

"ECL-2" 659+08.61 POT

N30°02'53"E
217.42'

CITY OF FOUNTAIN VALLEY

MT BALDY Cir

VIRGINIA Cir

PACIFIC St

"EC" LINE

R/W

PROPOSED R/W

MATCH LINE STA 646+50 SEE SHEET L-1

MATCH LINE STA 675+50 SEE SHEET L-4

MATCH LINE SEE SHEET L-3

CURVE DATA

No.	R	Δ	T	L
14	40000.00'	0°45'13"	263.05'	526.09'
15	40000.00'	0°45'13"	263.05'	526.09'
81	790.00'	60°24'58"	459.94'	833.02'
82	850.00'	73°47'26"	638.09'	1094.70'
84	3000.00'	4°07'44"	108.14'	216.18'
85	490.00'	52°06'30"	239.56'	445.64'
86	645.30'	33°04'50"	191.64'	372.57'
87	3000.00'	1°54'11"	49.83'	99.64'

CURVE DATA

No.	R	Δ	T	L
88	2791.17'	1°35'47"	38.89'	99.64'
89	7000.00'	1°20'21"	81.80'	163.60'
91	3000.00'	3°18'19"	86.56'	173.07'
92	170.00'	128°07'27"	349.51'	380.15'
93	20000.00'	0°30'02"	87.36'	174.71'
94	500.00'	42°18'10"	193.45'	369.16'
95	300.00'	121°28'41"	535.45'	636.06'

ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-2**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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PLANS APPROVAL DATE

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PARSONS
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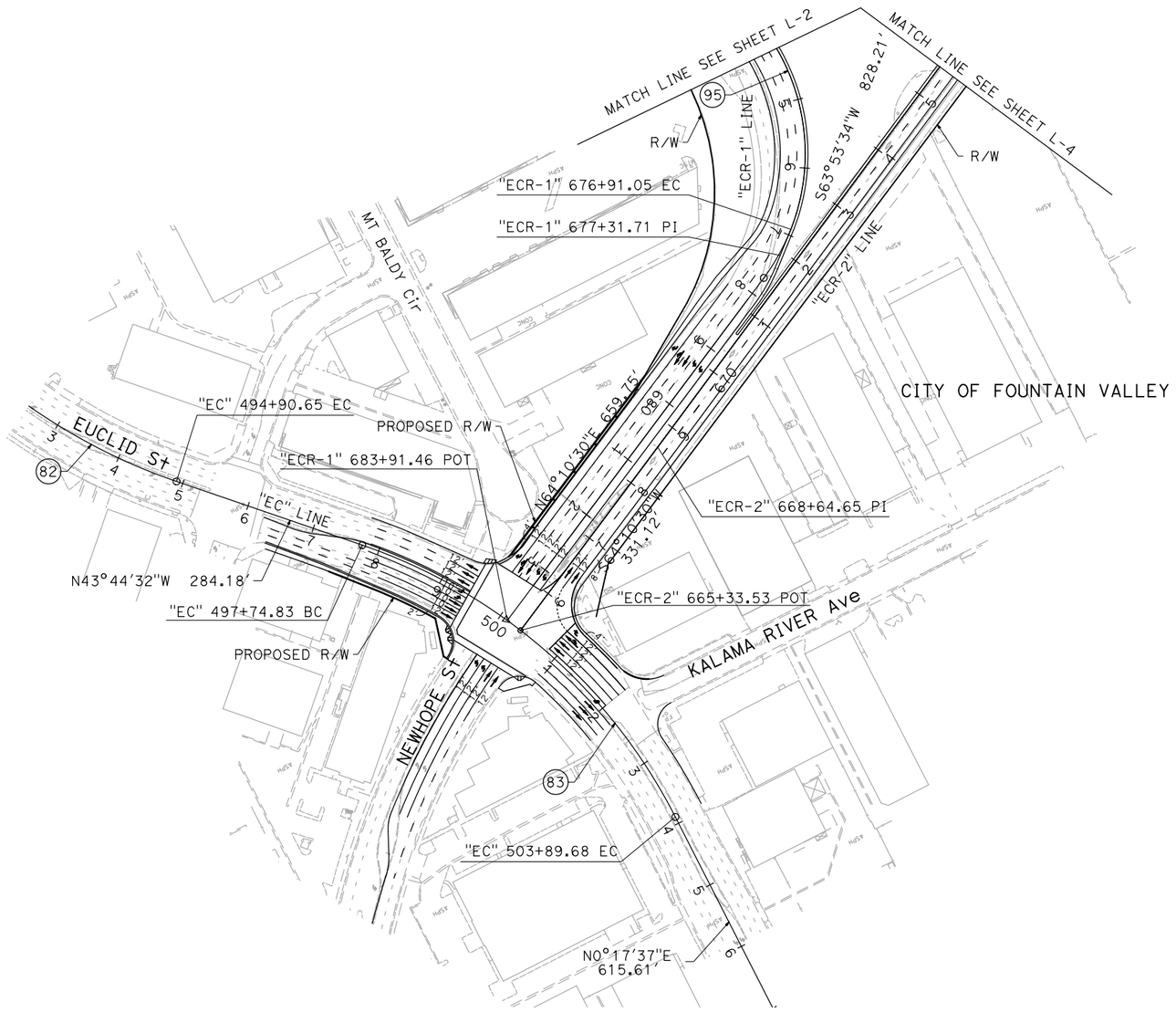
SUITE 200
IRVINE, CA 92612

ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
(82)	850.00′	73°47′26"	638.09′	1094.70′
(83)	800.00′	44°02′09"	323.51′	614.86′
(95)	300.00′	121°28′41"	535.45′	636.06′

ALTERNATIVE 3
LAYOUT

SCALE 1"=100′ **L-3**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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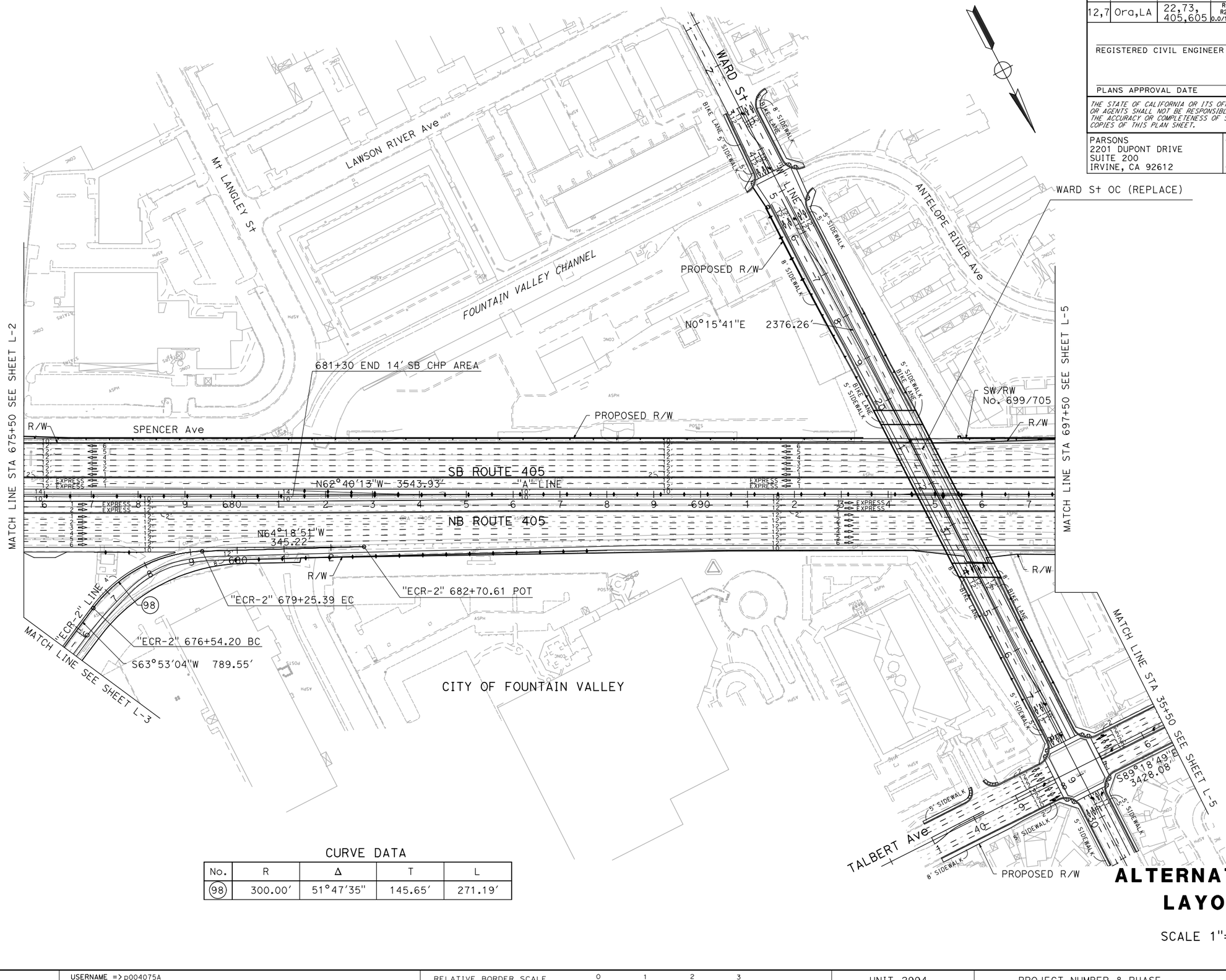
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
(98)	300.00'	51°47'35"	145.65'	271.19'

ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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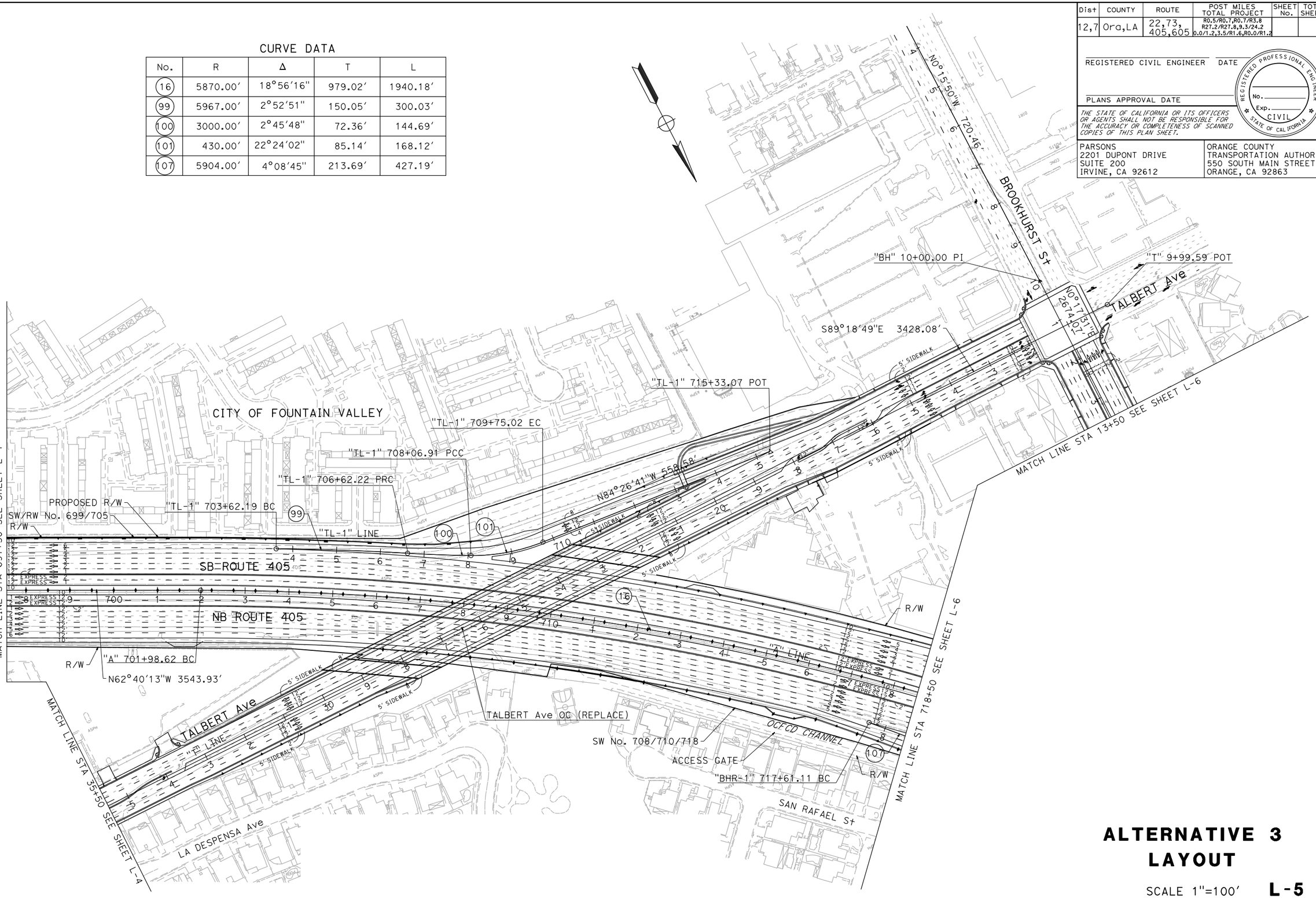
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
16	5870.00′	18°56′16"	979.02′	1940.18′
99	5967.00′	2°52′51"	150.05′	300.03′
100	3000.00′	2°45′48"	72.36′	144.69′
101	430.00′	22°24′02"	85.14′	168.12′
107	5904.00′	4°08′45"	213.69′	427.19′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-5**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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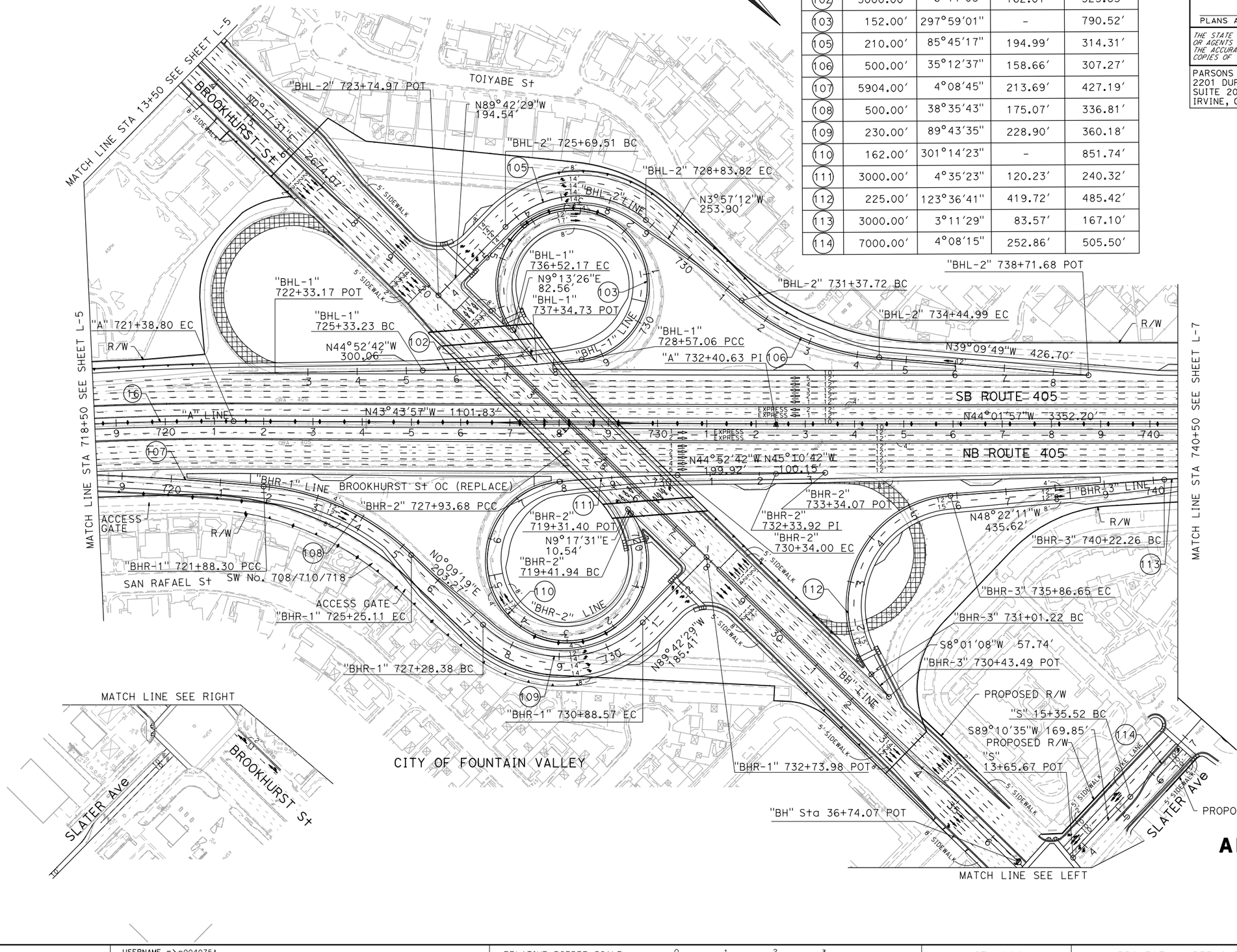
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
16	5870.00′	18°56′16"	979.02′	1940.18′
102	3000.00′	6°11′05"	162.07′	323.83′
103	152.00′	297°59′01"	-	790.52′
105	210.00′	85°45′17"	194.99′	314.31′
106	500.00′	35°12′37"	158.66′	307.27′
107	5904.00′	4°08′45"	213.69′	427.19′
108	500.00′	38°35′43"	175.07′	336.81′
109	230.00′	89°43′35"	228.90′	360.18′
110	162.00′	301°14′23"	-	851.74′
111	3000.00′	4°35′23"	120.23′	240.32′
112	225.00′	123°36′41"	419.72′	485.42′
113	3000.00′	3°11′29"	83.57′	167.10′
114	7000.00′	4°08′15"	252.86′	505.50′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-6**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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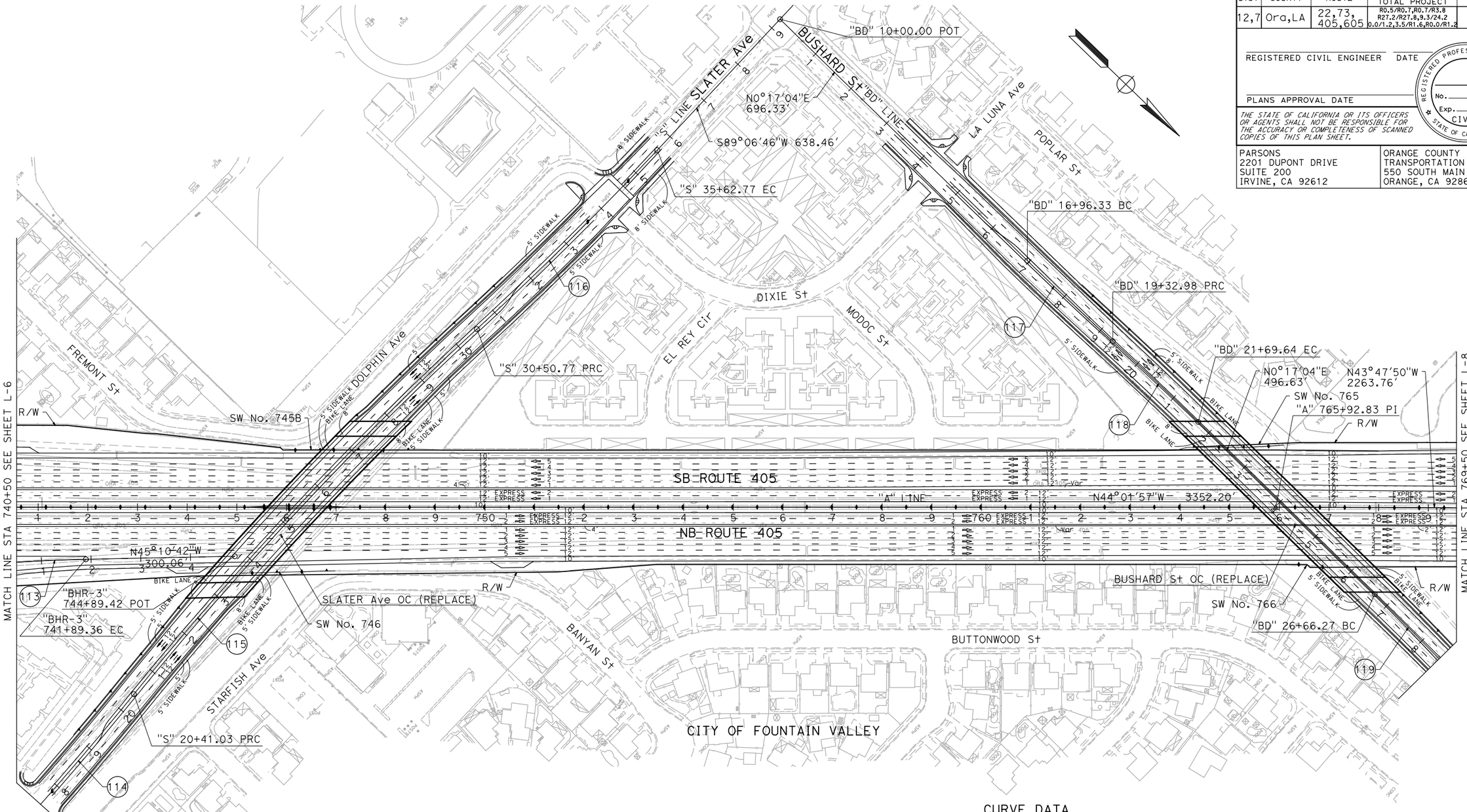

CURVE DATA

No.	R	Δ	T	L
113	3000.00′	3°11′29"	83.57′	167.10′
114	7000.00′	4°08′15"	252.86′	505.50′
115	7000.00′	8°15′54"	505.75′	1009.75′
116	7000.00′	4°11′27"	256.11′	511.99′
117	7000.00′	1°56′13"	118.34′	236.65′
118	7000.00′	1°56′13"	118.34′	236.65′
119	7000.00′	1°56′13"	118.34′	236.65′

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-7**

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DGN FILE => ALT 3 Layout Sheets.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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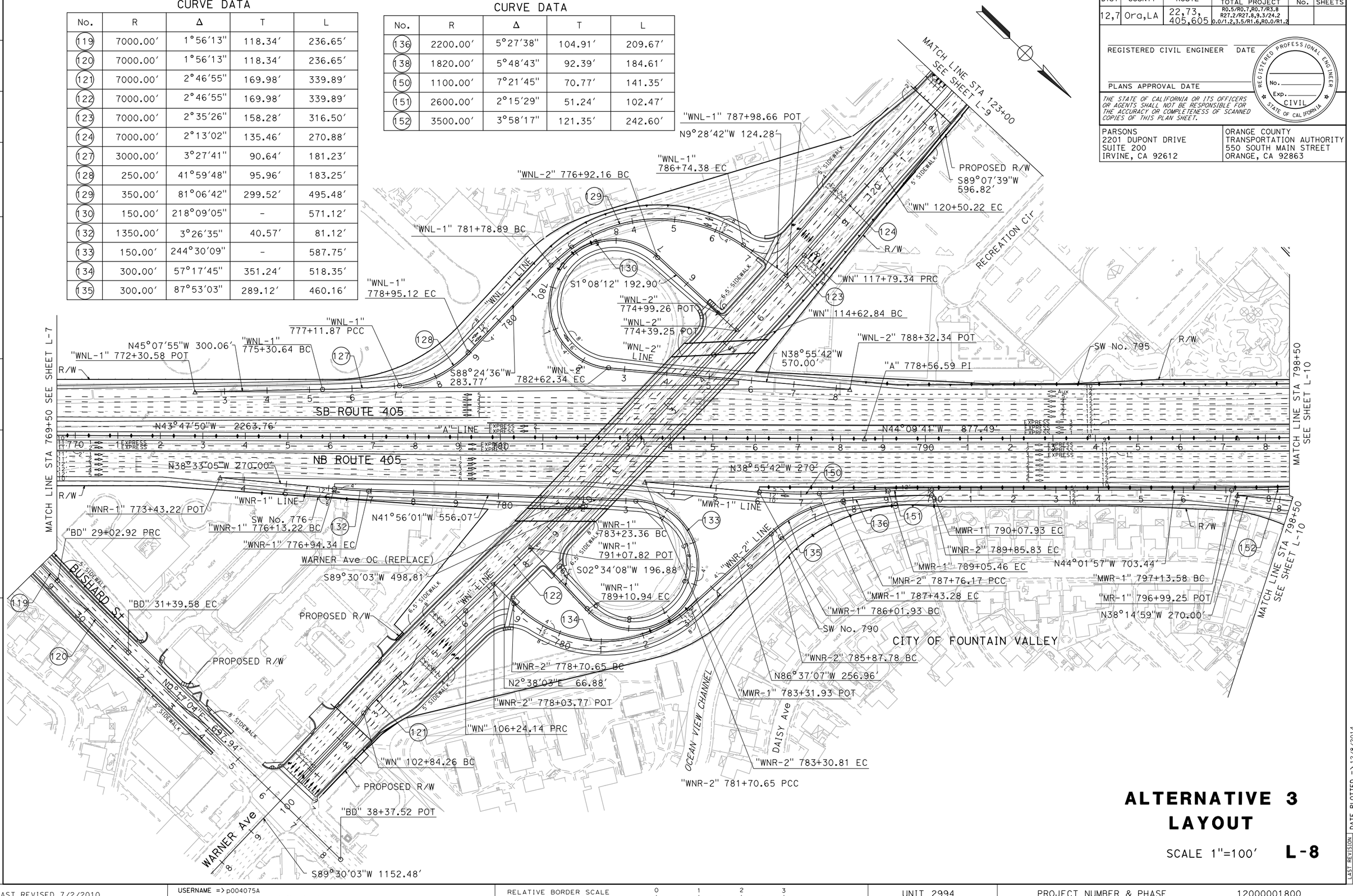
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
119	7000.00′	1°56′13"	118.34′	236.65′
120	7000.00′	1°56′13"	118.34′	236.65′
121	7000.00′	2°46′55"	169.98′	339.89′
122	7000.00′	2°46′55"	169.98′	339.89′
123	7000.00′	2°35′26"	158.28′	316.50′
124	7000.00′	2°13′02"	135.46′	270.88′
127	3000.00′	3°27′41"	90.64′	181.23′
128	250.00′	41°59′48"	95.96′	183.25′
129	350.00′	81°06′42"	299.52′	495.48′
130	150.00′	218°09′05"	-	571.12′
132	1350.00′	3°26′35"	40.57′	81.12′
133	150.00′	244°30′09"	-	587.75′
134	300.00′	57°17′45"	351.24′	518.35′
135	300.00′	87°53′03"	289.12′	460.16′

CURVE DATA

No.	R	Δ	T	L
136	2200.00′	5°27′38"	104.91′	209.67′
138	1820.00′	5°48′43"	92.39′	184.61′
150	1100.00′	7°21′45"	70.77′	141.35′
151	2600.00′	2°15′29"	51.24′	102.47′
152	3500.00′	3°58′17"	121.35′	242.60′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-8**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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PARSONS
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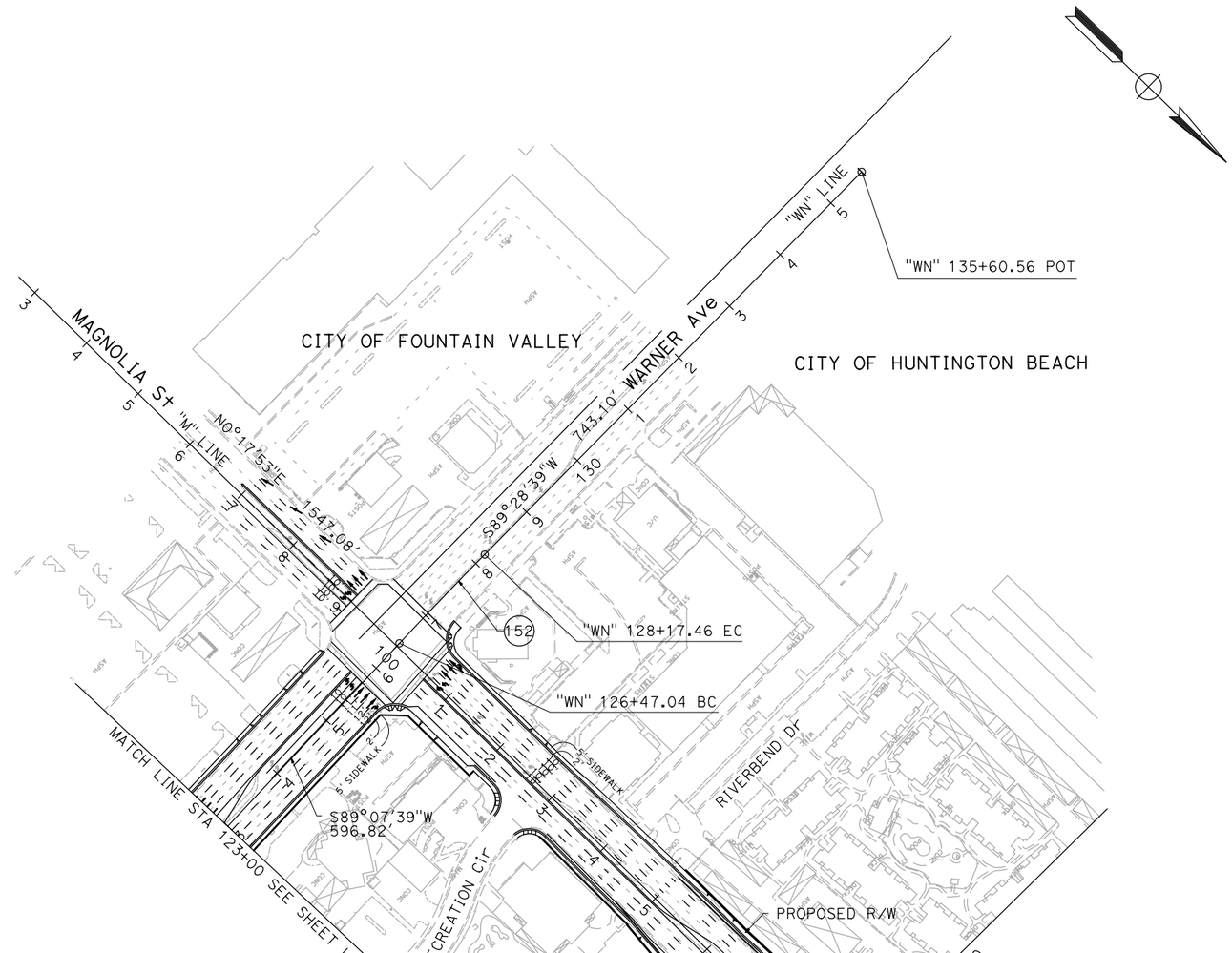
ORANGE, CA 92863



CURVE DATA

No.	R	Δ	T	L
125	7000.00′	1°23′42"	85.21′	170.42′
139	7000.00′	2°09′57"	132.31′	264.59′

ALTERNATIVE 3
LAYOUT

SCALE 1"=100′ **L-9**

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CURVE DATA

No.	R	Δ	T	L
17	11606.00′	4°58′29"	504.16′	1007.69′
137	3000.00′	2°33′16"	66.89′	133.76′
138	3000.00′	3°31′27"	92.29′	184.53′
139	7000.00′	2°09′57"	132.31′	264.59′
140	7000.00′	2°09′57"	132.31′	264.59′
141	7000.00′	2°09′57"	132.31′	264.59′
142	7000.00′	2°09′57"	132.31′	264.59′
147	170.00′	215°42′21"	-	640.01′
148	250.00′	93°51′10"	267.40′	409.51′
149	500.00′	44°02′28"	202.22′	384.33′
151	300.00′	47°35′10"	132.27′	249.16′

CURVE DATA

No.	R	Δ	T	L
152	184.00′	99°03′20"	215.65′	318.11′
153	160.00′	218°24′27"	-	609.91′
154	3500.00′	6°05′11"	186.07′	371.80′
155	20000.00′	0°56′31"	164.41′	328.81′
156	2700.00′	4°26′28"	104.69′	209.28′
157	10012.00′	1°43′01"	150.02′	300.01′
158	120.00′	49°21′15"	55.14′	103.37′
159	450.00′	31°57′15"	128.84′	250.97′
160	250.00′	40°41′29"	92.70′	177.55′
161	3000.00′	3°17′25"	86.17′	172.28′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 R0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

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ORANGE COUNTY
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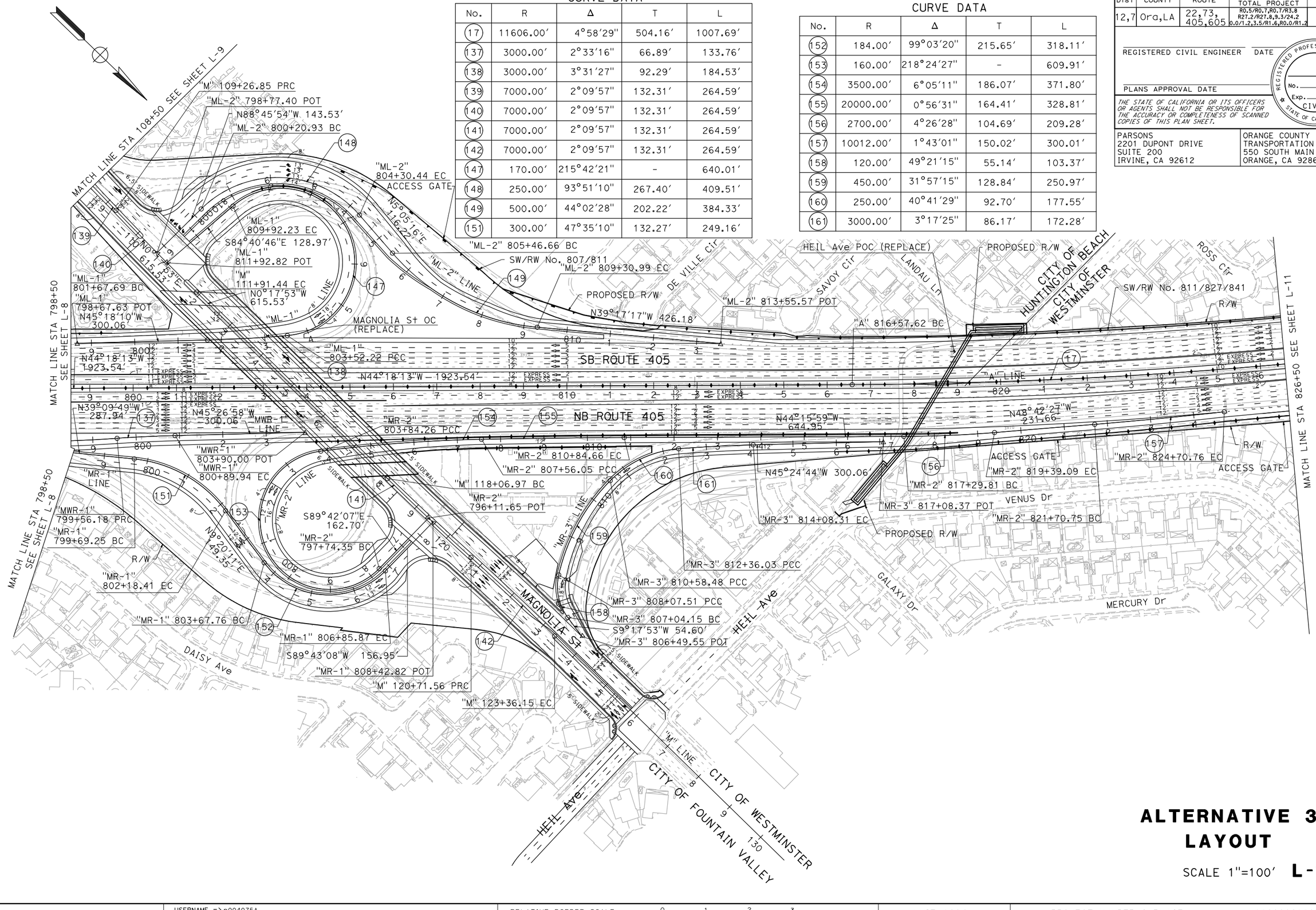

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-10**

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CURVE DATA

No.	R	Δ	T	L
17	11606.00′	4°58′29"	504.16′	1007.69′
162	7000.00′	2°39′09"	162.06′	324.07′
163	7000.00′	2°39′09"	162.06′	324.07′
164	7000.00′	2°39′09"	162.06′	324.07′
165	7000.00′	2°39′09"	162.06′	324.07′
166	7000.00′	2°16′16"	138.75′	277.47′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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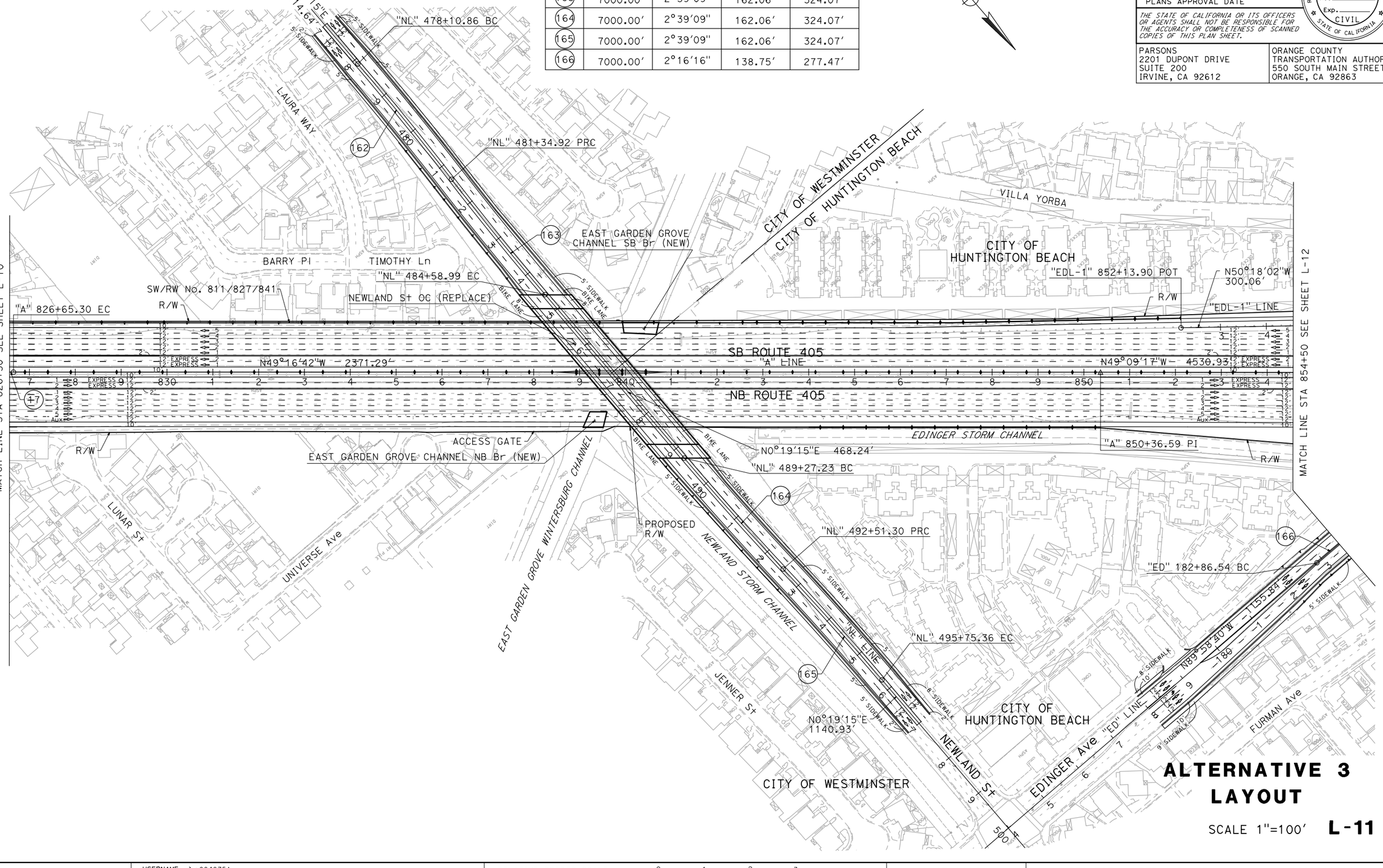

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-11**

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CURVE DATA

No.	R	Δ	T	L
166	7000.00′	2°16′16"	138.75′	277.47′
167	7000.00′	0°28′51"	29.38′	58.75′
168	7000.00′	1°24′36"	86.13′	172.26′
169	3000.00′	6°57′00"	182.17′	363.90′
170	600.00′	25°22′47"	135.10′	265.78′
171	3000.00′	3°11′29"	83.57′	167.10′
172	2100.00′	4°20′50"	79.70′	159.33′
173	180.00′	75°32′44"	139.49′	237.33′
174	216.00′	89°06′49"	212.68′	335.95′
176	500.00′	36°25′34"	164.52′	317.88′
177	376.00′	66°54′04"	248.40′	439.03′
178	180.00′	205°42′30"	-	646.25′
179	2100.00′	4°26′22"	81.40′	162.71′
180	3000.00′	3°11′29"	83.57′	167.10′
181	1000.00′	21°16′08"	187.77′	371.21′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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CITY OF HUNTINGTON BEACH

CITY OF WESTMINSTER

PROPOSED R/W

"ED" LINE

EDINGER Ave

N89°35'51"W 1093.35'

8' SIDEWALK

TYPE 1 BARRICADE

"EDL-1" 866+57.79 POT

BEACH Blvd (ROUTE 39)

N0°14'21"E 4006.68'

"BL-1" 878+58.00 POT

PROPOSED R/W

"BL-2" 875+86.63 POT

N40°18'40"E 35.11'

"BL-2" 876+21.74 BC

CENTER Ave

R/W

S55°18'35"W 140.12'

"BL-1" 877+17.88 EC

S39/S405 Conn Sep (NEW)

"BL-1" 874+80.54 BC

N49°08'41"W 583.60'

"BL-2" 879+57.69 EC

N48°48'09"W 372.55'

"BL-2" LINE

"EDL-1" 861+43.63 EC

N50°18'02"W 300.06'

"EDL-1" 858+77.86 PCC

SW No. 857

"EDL-1" 855+13.96 BC

R/W

"EDL-1" LINE

N82°37'49"W 514.16'

5' SIDEWALK BIKE LANE

"ED" 194+23.41 EC

"BL-1" 864+69.37 BC

"BL-1" 866+36.47 EC

"BL-1" 867+37.62 BC

"BL-1" 868+96.95 EC

"BL-1" LINE

"ED" 192+51.15 BC

N50°18'02"W 300.06'

TIE BACK WALL No. 2300

"BL-1" 861+69.31 POT

SB ROUTE 405

N53°29'31"W 101.15'

"A" LINE

N49°09'17"W 4530.93'

NB ROUTE 405

"BR-2" 878+38.89 EC

N49°03'09"W 358.54'

"BR-2" 881+01.99 EC

"BR-2" 879+34.89 BC

"BR-2" LINE

N53°29'31"W 96.00'

TIE BACK WALL No. 2200

"BR-2" 873+17.64 EC

"BR-2" 876+76.18 BC

"BR-2" 864+45.39 POT

N39/N405 Conn Sep (NEW)

S74°45'39"E 226.00'

"BR-2" 866+71.39 BC

"BR-3" LINE

"BR-3" 880+58.19 BC

N74°45'39"W 277.83'

"BR-3" 877+80.36 POT

N50°18'02"W 300.06'

MATCH LINE STA 854+50 SEE SHEET L-11

MATCH LINE STA 882+50 SEE SHEET L-14

MATCH LINE SEE SHEET L-13

R/W

N88°11'15"W 628.39'

"BR-1" 861+88.89 POT

N44°17'09"W 513.50'

EDINGER STORM CHANNEL

EDINGER Ave OC (REPLACE)

"BR-1" 867+02.39 BC

"ED" 186+22.76 EC

"ED" 185+64.01 PRC

"BR-1" 870+20.26 EC

"BR-1" LINE

N7°51'35"W 237.37'

"BR-1" 872+57.64 BC

"BR-1" 876+96.67 EC

N74°45'39"W 199.14'

873+25 Beg 15' NB CHP AREA

ROCKVIEW Cir

MONROE St

"BR-1" 878+95.81 POT

ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-12**

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UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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PLANS APPROVAL DATE

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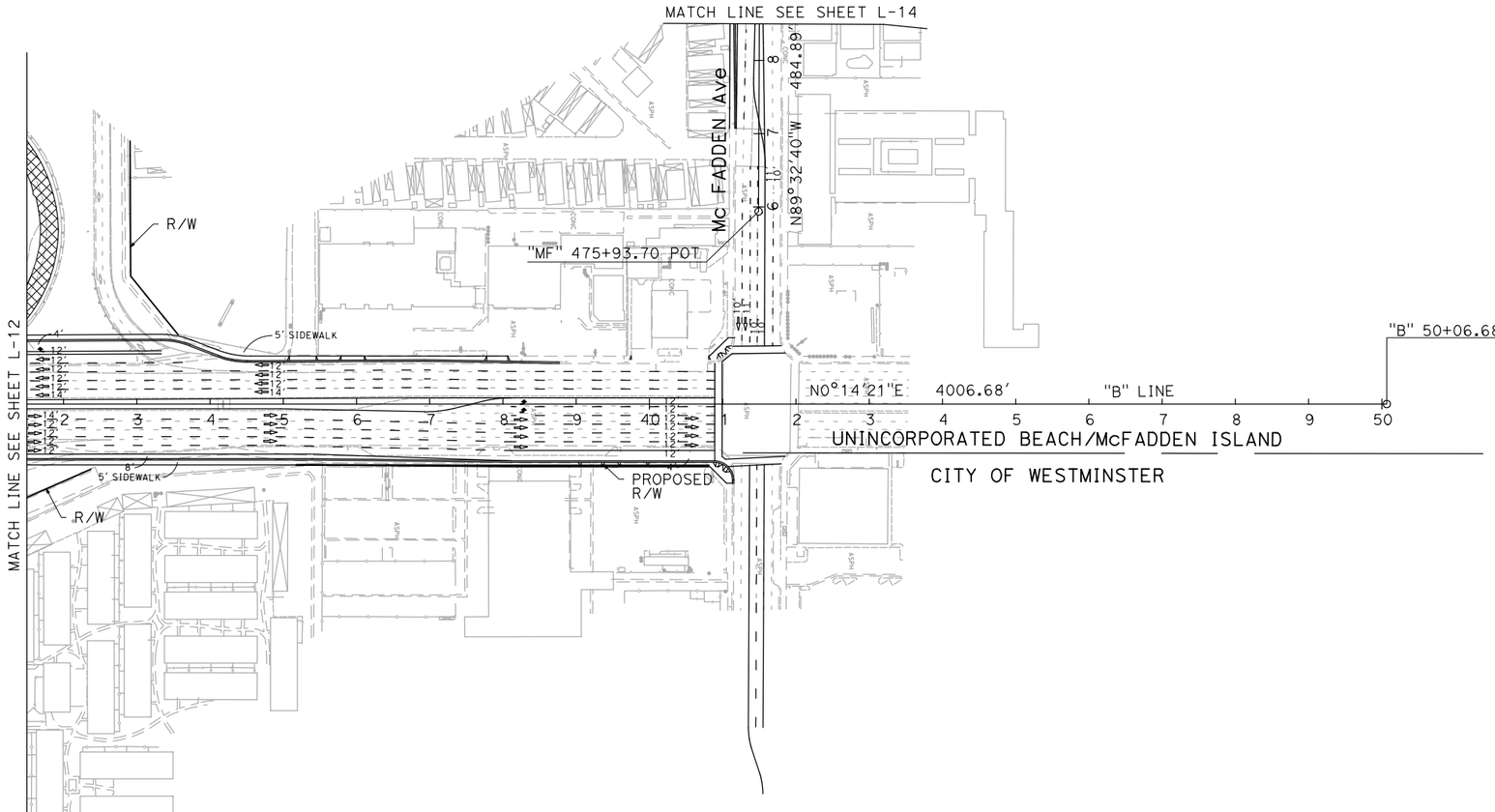

ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-13**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
18	12000.00′	5°07′29"	537.02′	1073.33′
175	2700.00′	5°00′54"	118.24′	236.32′
181	1000.00′	21°16′08"	187.77′	371.21′
182	3000.00′	3°11′29"	83.57′	167.10′
183	1000.00′	20°34′03"	181.44′	358.97′
184	1016.50′	43°01′24"	400.65′	763.29′
185	700.00′	10°40′53"	65.44′	130.50′
186	700.00′	33°08′04"	208.24′	404.81′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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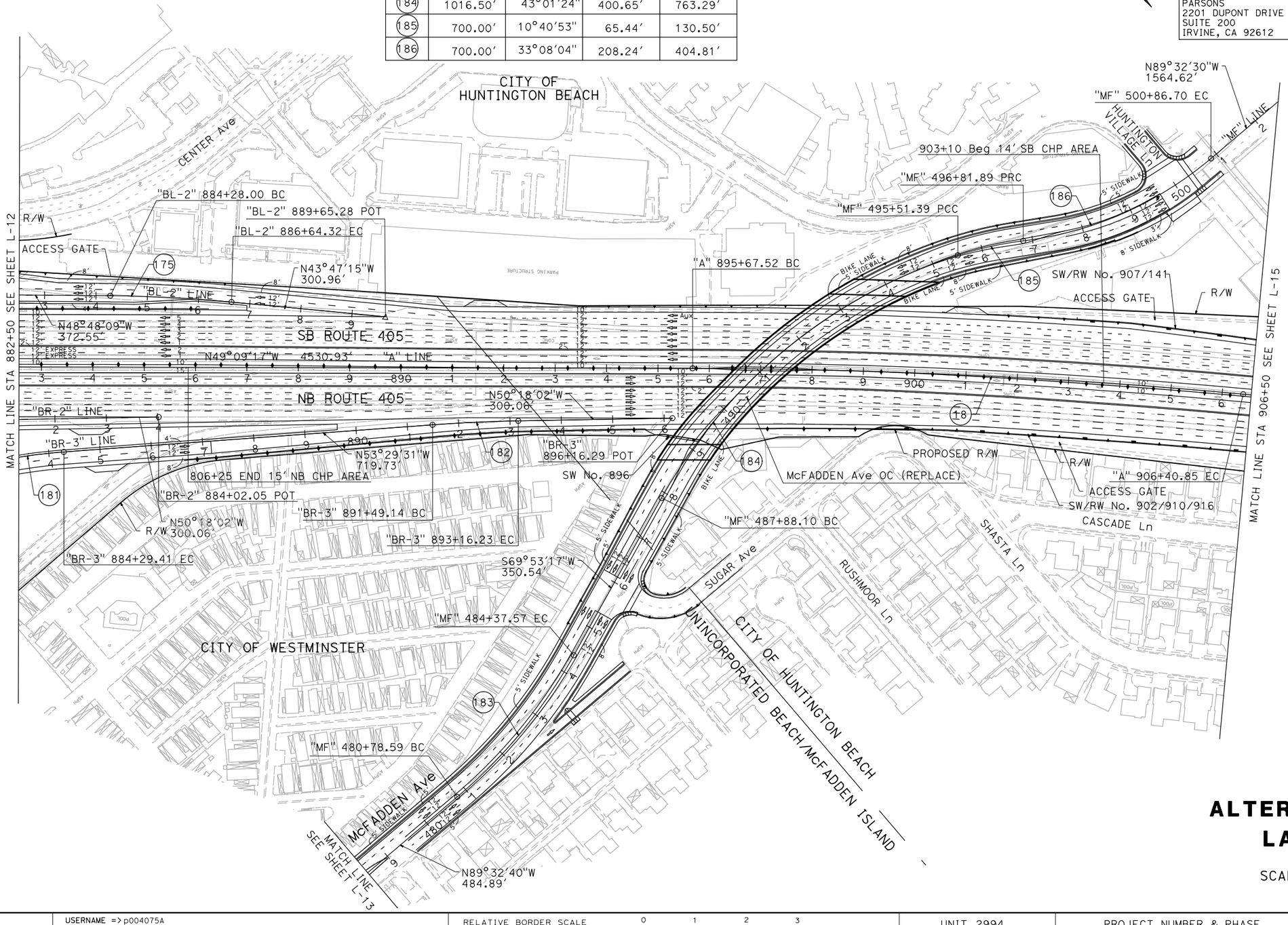

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-14**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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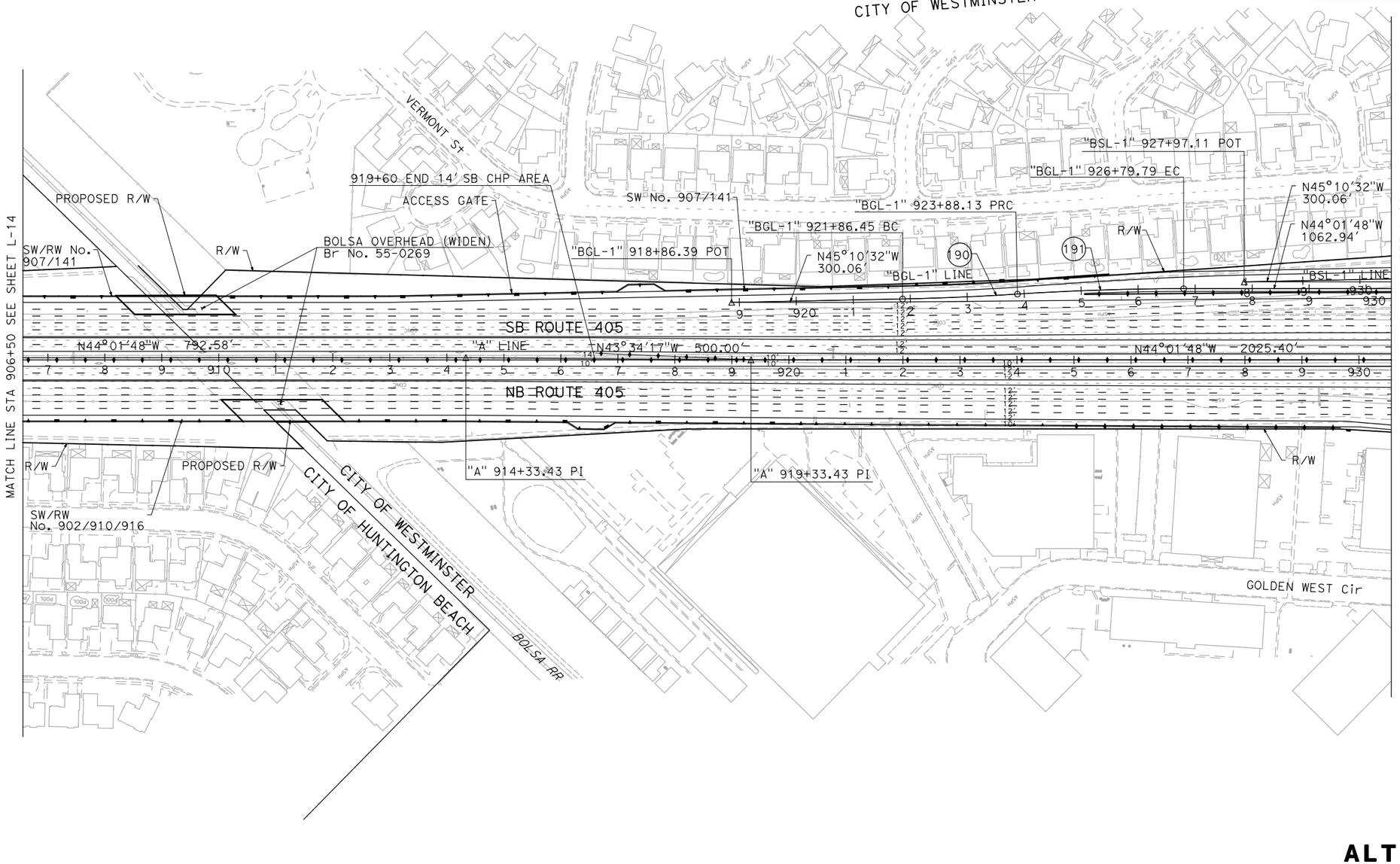
CURVE DATA

No.	R	Δ	T	L
190	4500.00′	2°34′04"	100.86′	201.68′
191	4500.00′	3°42′49"	145.88′	291.62′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-15**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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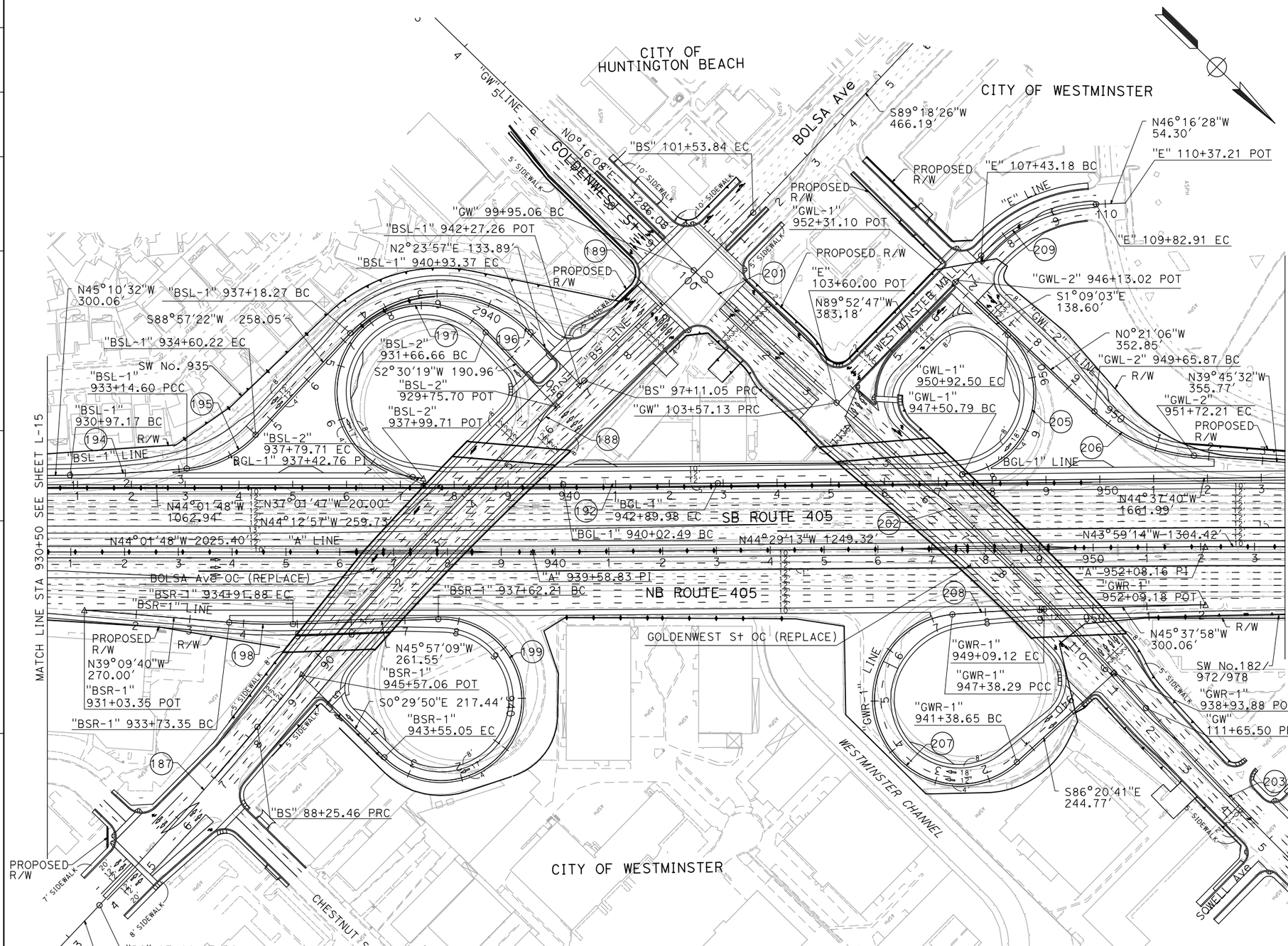

CURVE DATA

No.	R	Δ	T	L
187	7000.00′	3°37′28"	221.47′	442.79′
188	7000.00′	7°14′55"	443.38′	885.59′
189	7000.00′	3°37′28"	221.47′	442.79′
192	40000.00′	0°24′42"	143.75′	287.49′
194	3000.00′	4°09′10"	108.76′	217.43′
195	200.00′	41°42′56"	76.20′	145.61′
196	230.00′	93°26′34"	244.25′	375.10′
197	160.00′	219°32′07"	-	613.06′
198	1000.00′	6°47′29"	59.34′	118.53′
199	150.00′	194°37′24"	-	509.52′
201	7000.00′	2°57′49"	181.07′	362.07′
202	7000.00′	6°37′00"	404.63′	808.37′
203	7000.00′	3°17′05"	200.71′	401.30′
205	150.00′	130°31′23"	325.55′	341.71′
206	300.00′	39°24′26"	107.44′	206.34′
207	158.00′	217°26′58"	-	599.64′
208	3000.00′	3°15′45"	85.44′	170.83′
209	315.00′	43°36′18"	126.01′	239.73′

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-16**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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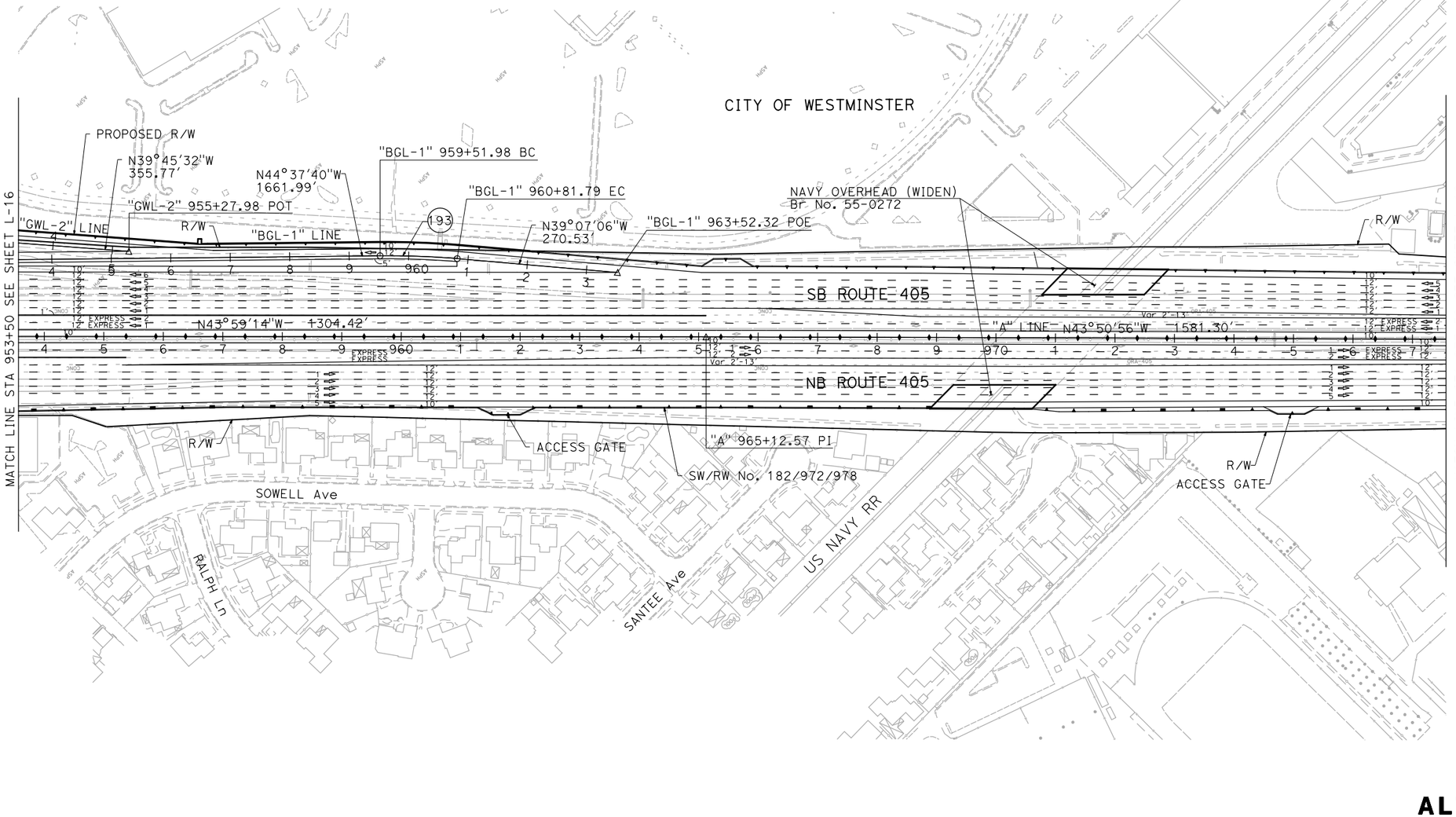
CURVE DATA

No.	R	Δ	T	L
193	1350.00′	5°30′34"	64.96′	129.81′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-17**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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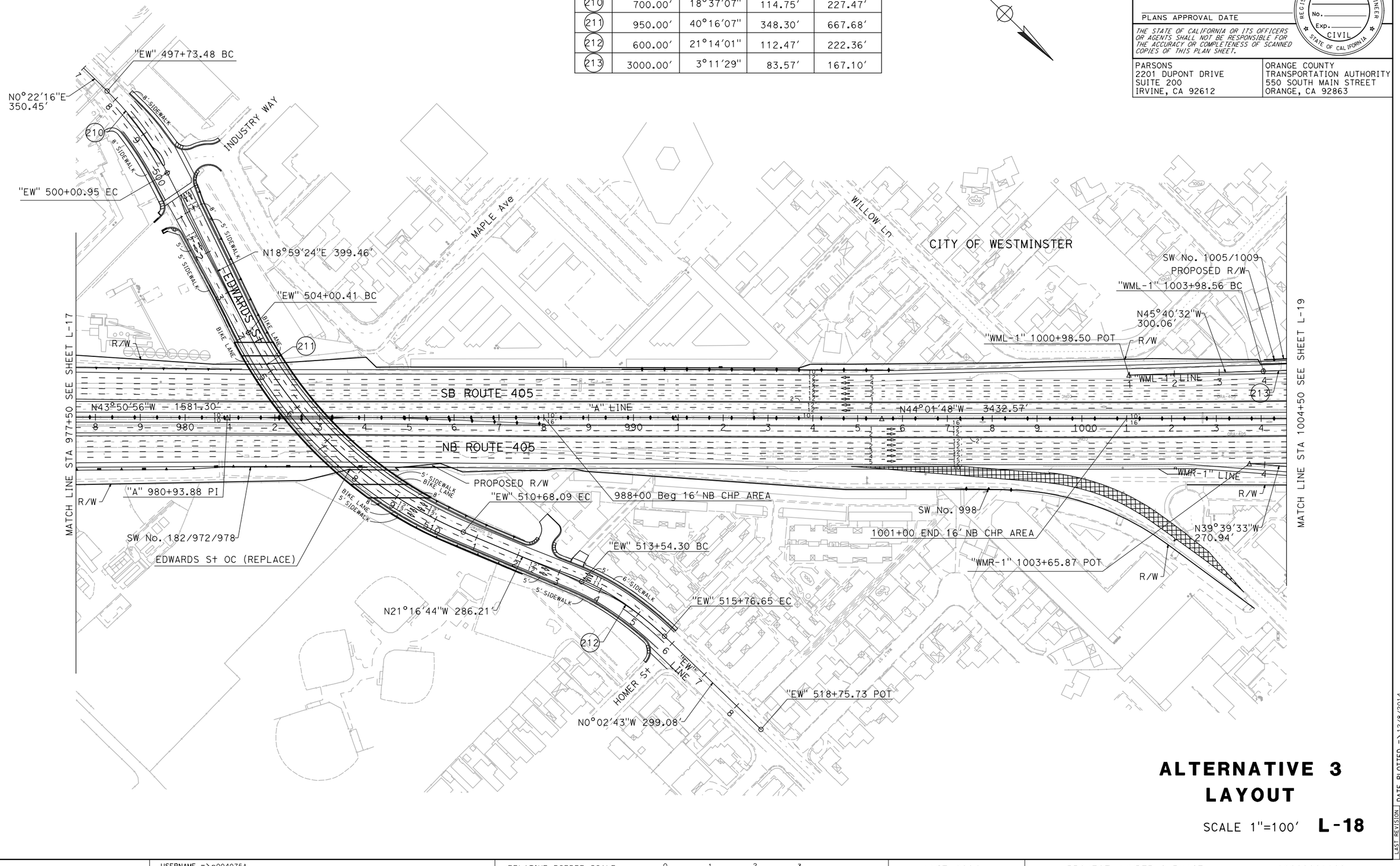
CURVE DATA

No.	R	Δ	T	L
210	700.00′	18°37′07"	114.75′	227.47′
211	950.00′	40°16′07"	348.30′	667.68′
212	600.00′	21°14′01"	112.47′	222.36′
213	3000.00′	3°11′29"	83.57′	167.10′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-18**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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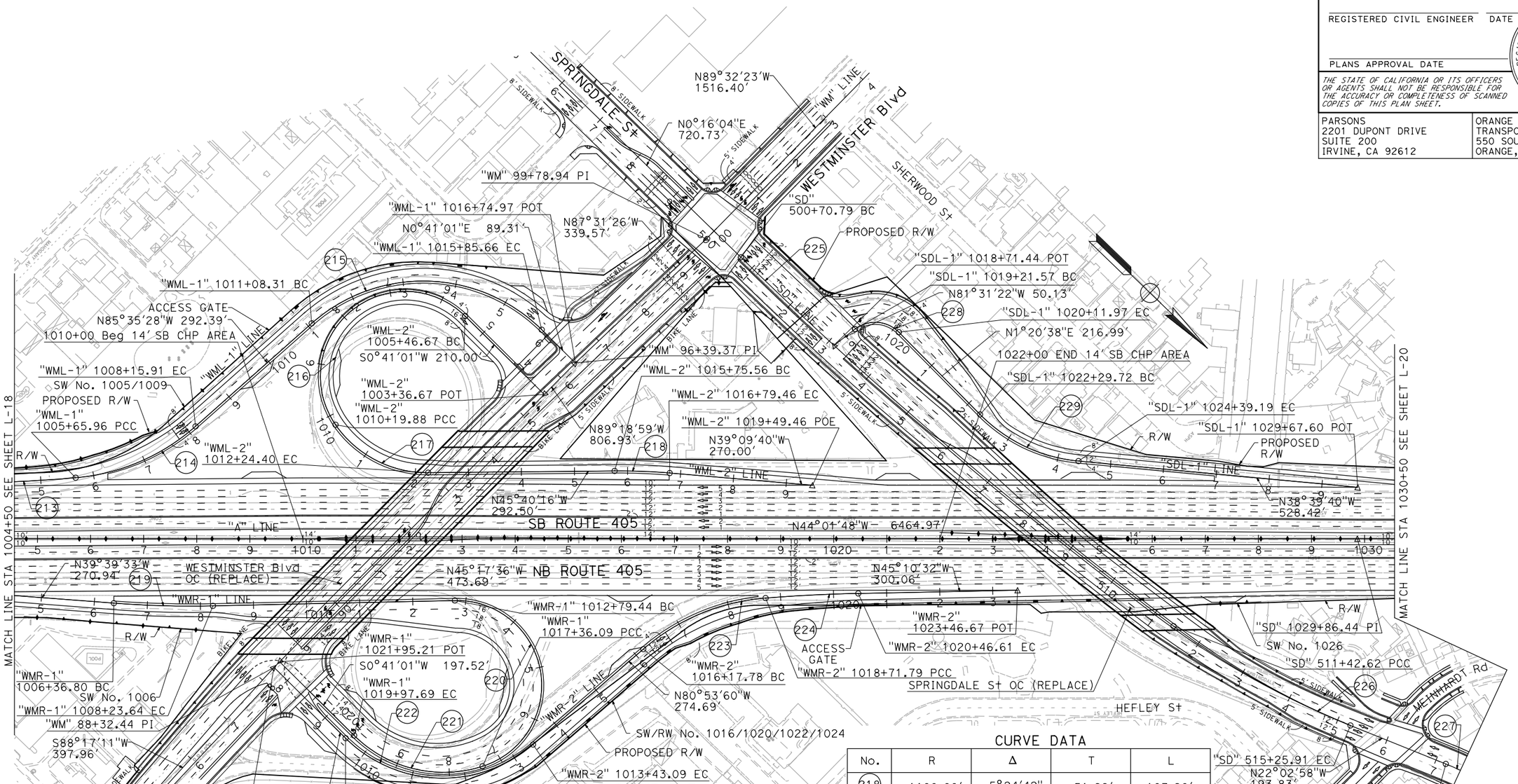

CURVE DATA

No.	R	Δ	T	L
213	3000.00'	3°11'50"	83.72'	167.40'
214	390.00'	36°43'17"	129.44'	249.95'
215	317.00'	86°16'40"	297.05'	477.35'
216	160.00'	169°27'22"	1733.98'	473.21'
217	210.00'	55°48'01"	111.19'	204.52'

CURVE DATA

No.	R	Δ	T	L
218	1100.00'	5°24'42"	51.99'	103.90'
219	1900.00'	5°38'03"	93.49'	186.83'
220	160.00'	163°31'27"	1105.15'	456.65'
221	240.00'	62°27'10"	145.50'	261.60'
222	260.00'	85°35'01"	240.69'	388.37'
223	400.00'	36°23'08"	131.46'	254.02'
224	3000.00'	3°20'20"	87.43'	174.82'
225	8000.00'	7°40'35"	536.72'	1071.83'
226	1500.00'	14°38'27"	192.70'	383.30'
227	600.00'	23°42'12"	125.91'	248.22'
228	62.50'	82°52'00"	55.17'	90.39'
229	300.00'	40°00'18"	109.21'	209.47'

ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-19**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 R0.0/1.2,3.5/R1.6,R0.0/R1.2		

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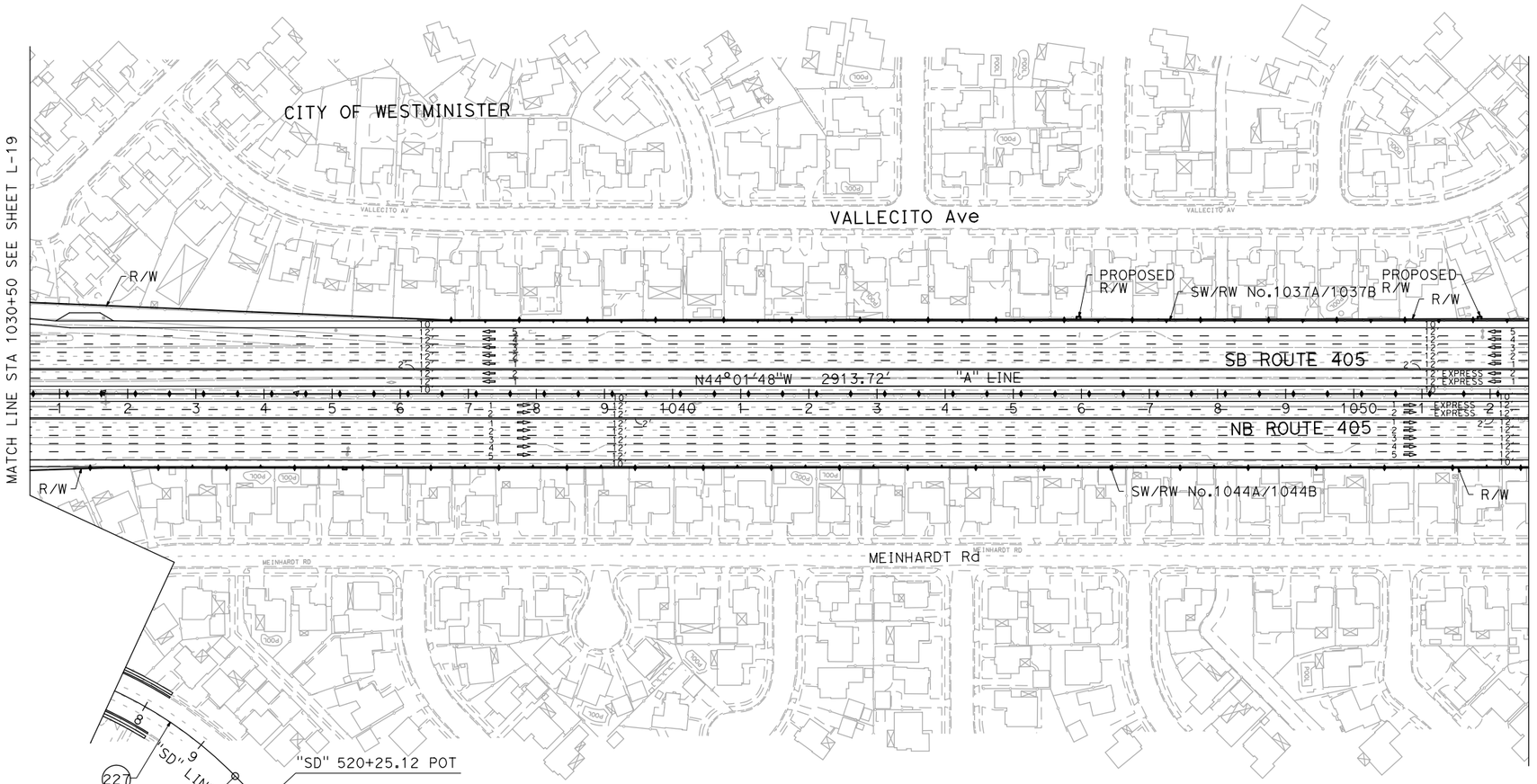
CURVE DATA

No.	R	Δ	T	L
227	600.00′	23°42′12"	125.91′	248.22′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-20**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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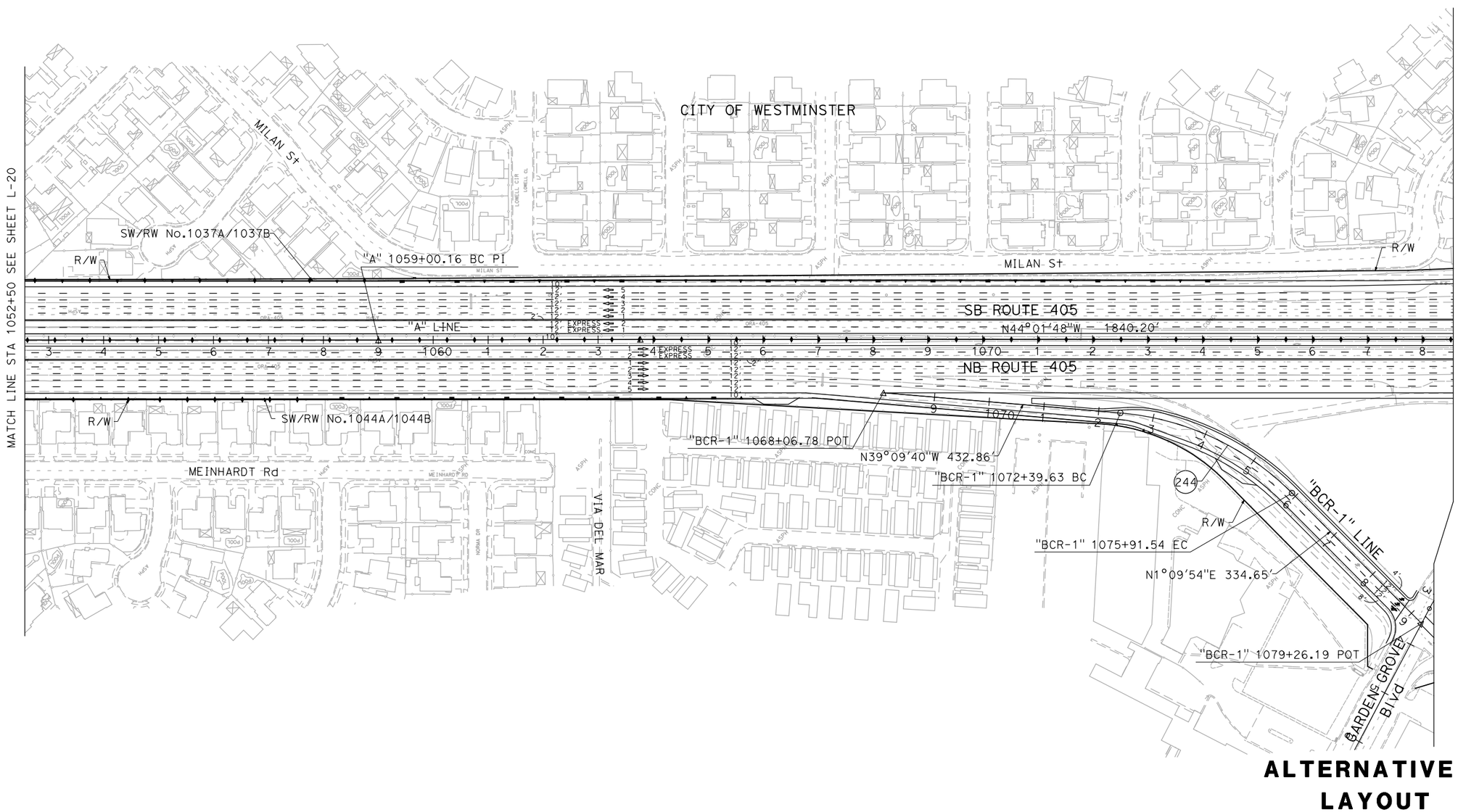
CURVE DATA

No.	R	Δ	T	L
244	500.00′	40°19′33"	183.60′	351.91′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-21**

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UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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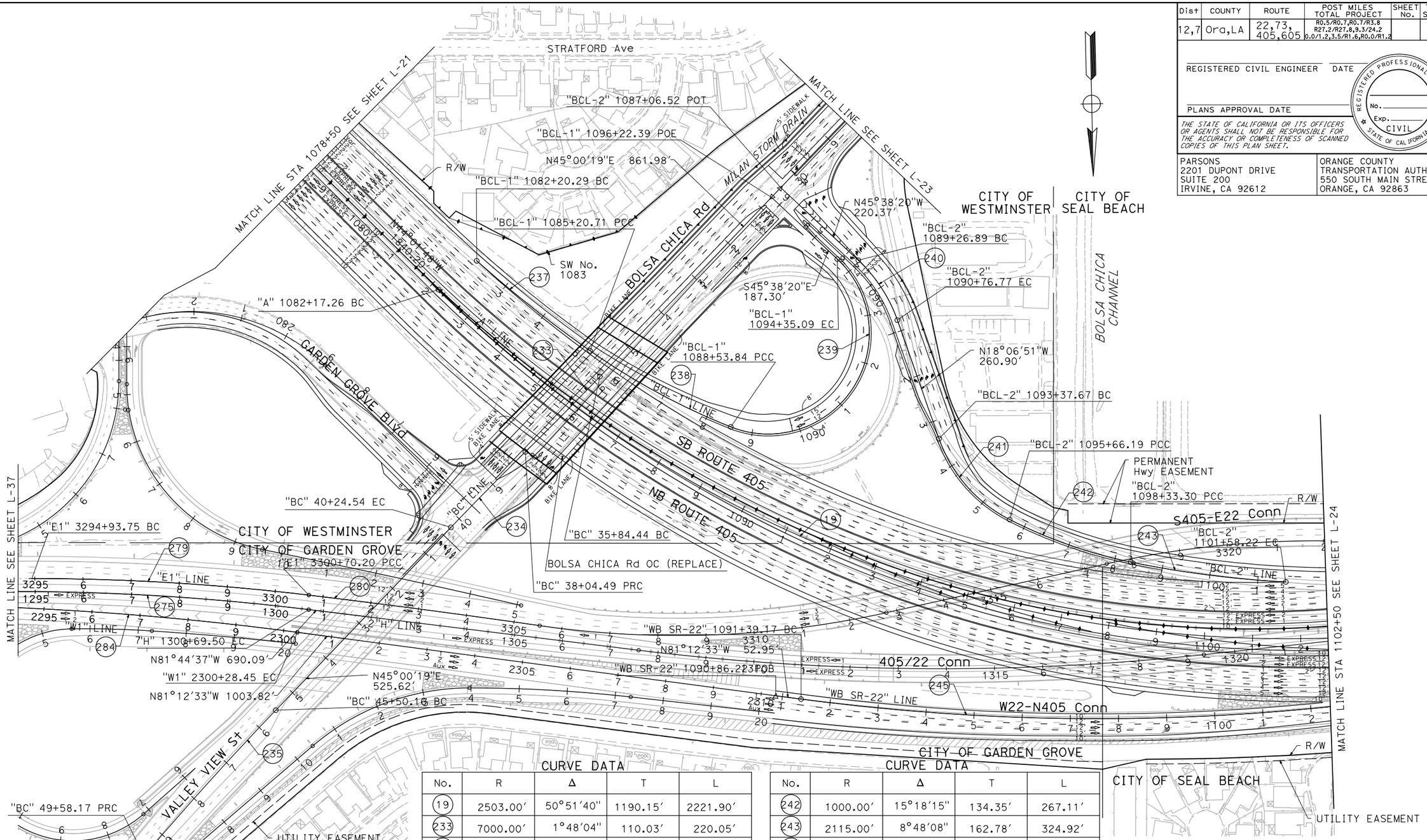

CURVE DATA

No.	R	Δ	T	L
19	2503.00′	50°51′40"	1190.15′	2221.90′
233	7000.00′	1°48′04"	110.03′	220.05′
234	7000.00′	1°48′04"	110.03′	220.05′
235	7000.00′	3°20′23"	204.06′	408.01′
236	7000.00′	3°20′52"	204.56′	409.00′
237	2614.00′	6°35′06"	150.38′	300.42′
238	1421.00′	13°25′56"	167.33′	333.13′
239	210.00′	158°35′04"	1110.57′	581.24′
240	312.00′	27°31′29"	76.42′	149.88′
241	300.00′	43°38′39"	120.13′	228.52′

CURVE DATA

No.	R	Δ	T	L
242	1000.00′	15°18′15"	134.35′	267.11′
243	2115.00′	8°48′08"	162.78′	324.92′
245	4686.90′	13°47′55"	567.12′	1128.75′
275	5000.00′	7°01′44"	307.08′	613.39′
279	4816.00′	6°51′29"	288.57′	576.45′
280	20016.00′	1°23′02"	241.74′	483.46′
284	6635.00′	7°33′49"	438.57′	875.87′

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-22**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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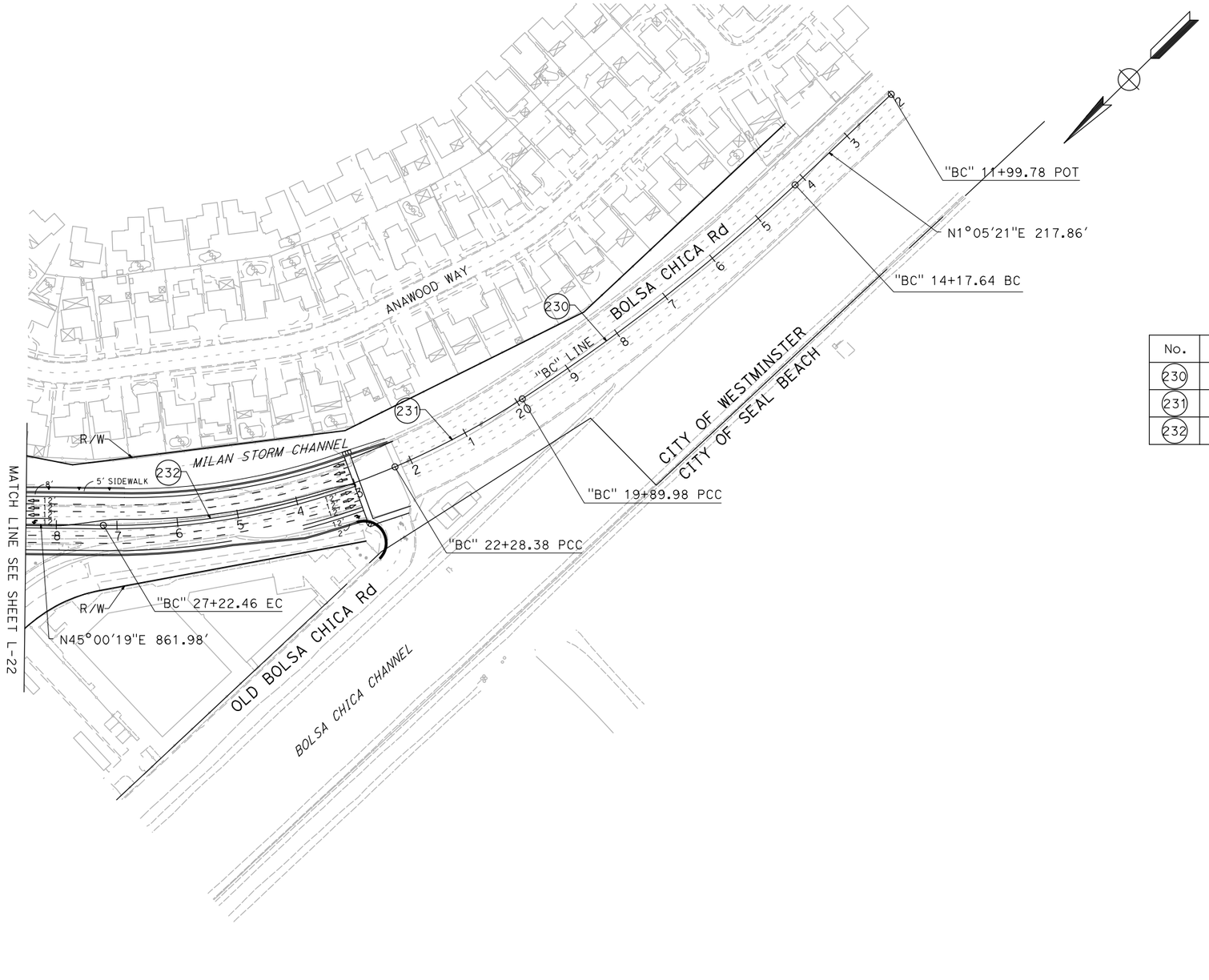

CURVE DATA

No.	R	Δ	T	L
230	3178.45′	10°19′02"	286.94′	572.34′
231	1412.63′	9°40′09"	119.48′	238.40′
232	1183.00′	23°55′47"	250.70′	494.08′

ALTERNATIVE 3
LAYOUT

SCALE 1"=100′ **L-23**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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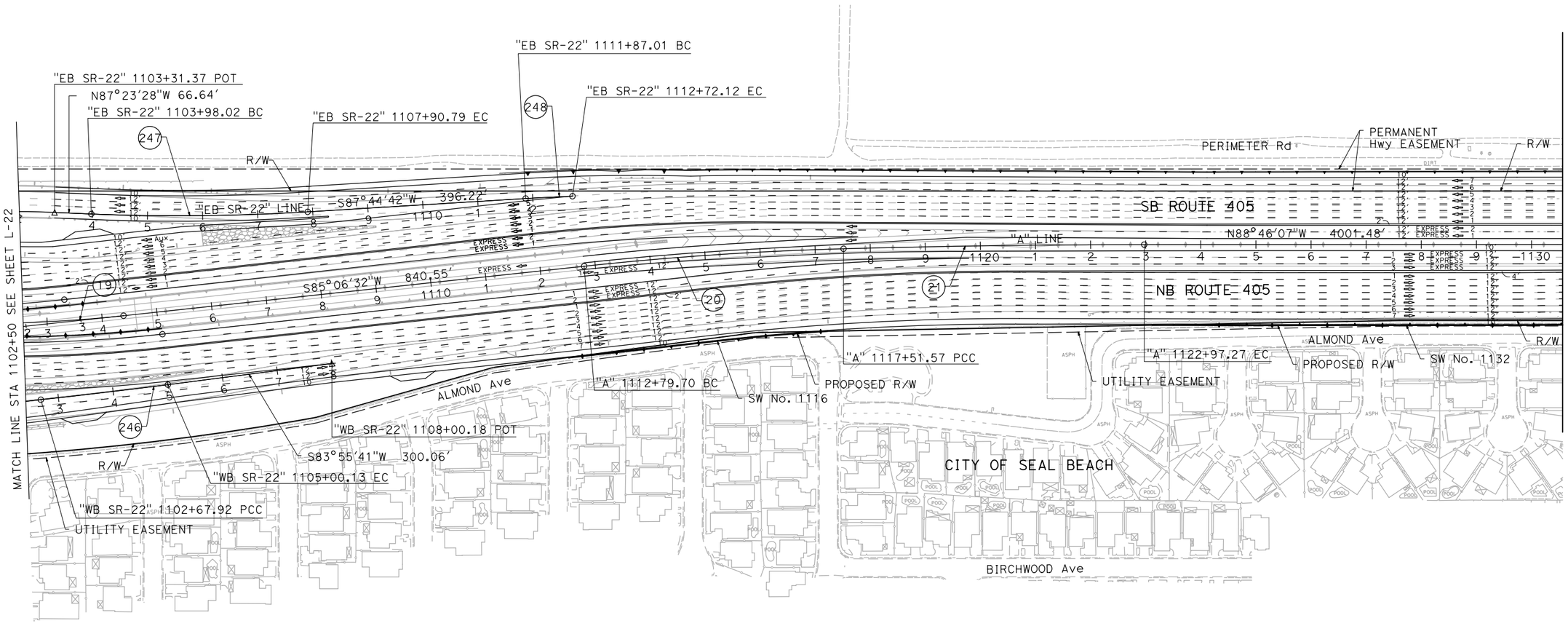
CURVE DATA

No.	R	Δ	T	L
19	2503.00′	50°51′40"	1190.15′	2221.90′
20	5930.00′	4°33′33"	236.06′	471.87′
21	20000.00′	1°33′48"	272.86′	545.69′
246	12504.00′	1°03′50"	116.11′	232.20′
247	3838.00′	5°51′49"	196.56′	392.78′
248	3586.00′	1°21′35"	42.55′	85.11′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-24**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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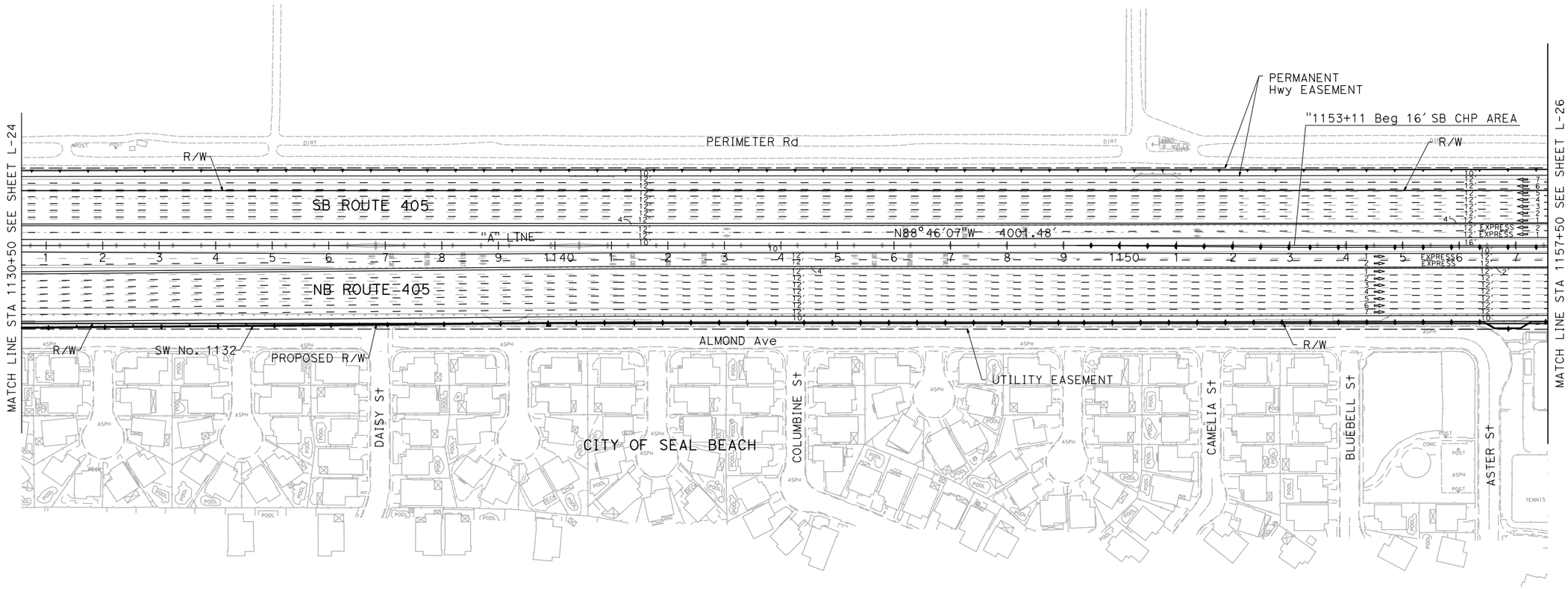
CITY OF SEAL BEACH



ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-25**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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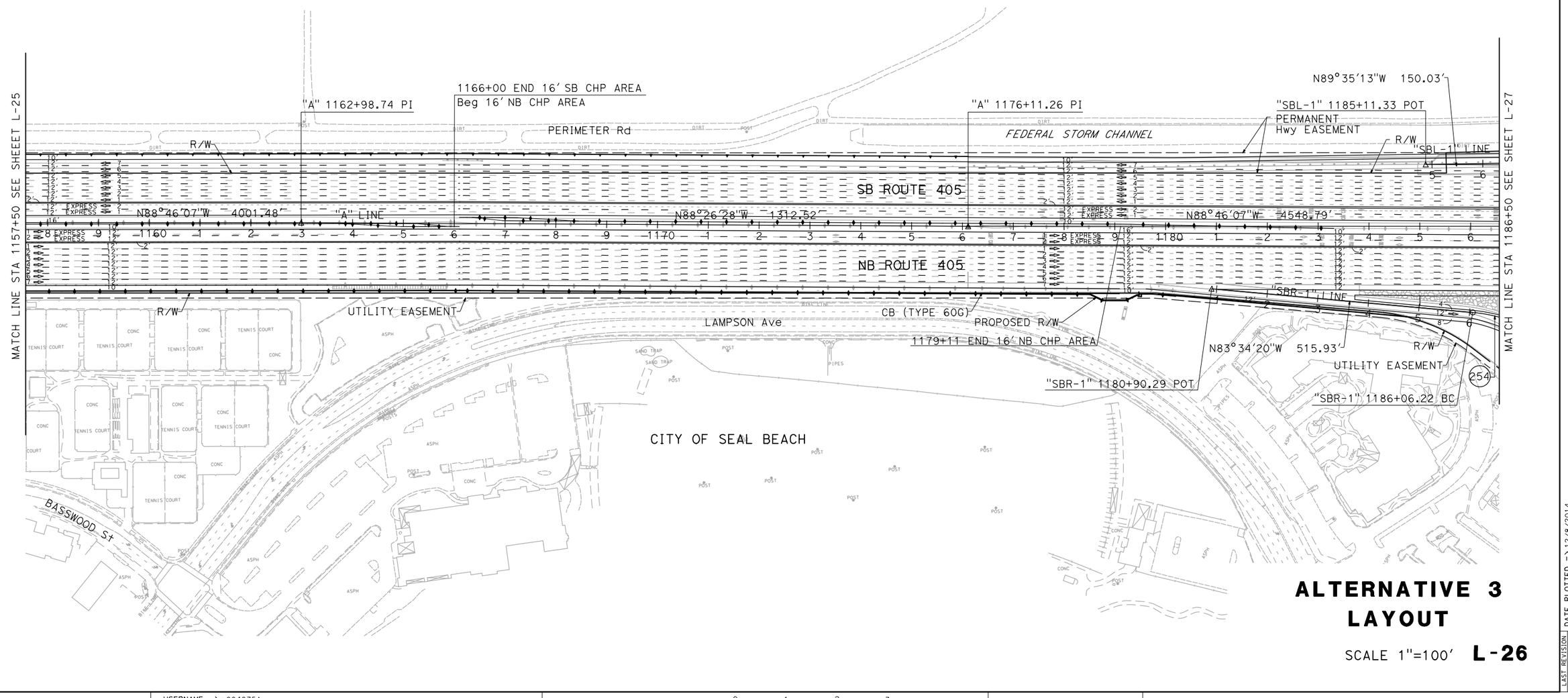
CURVE DATA

No.	R	Δ	T	L
254	300.00′	35°18′36"	95.48′	184.88′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-26**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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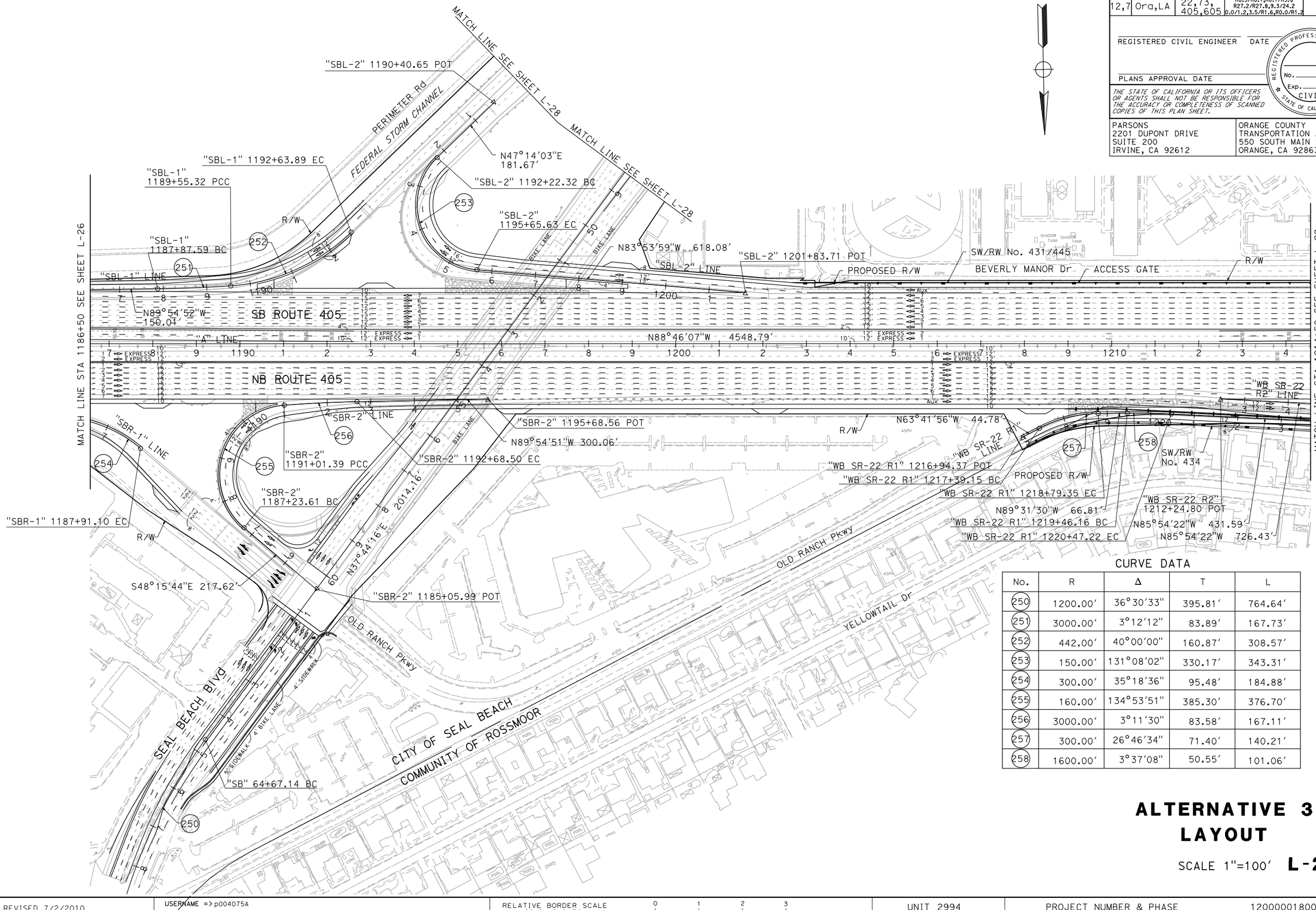

CURVE DATA

No.	R	Δ	T	L
250	1200.00′	36°30′33"	395.81′	764.64′
251	3000.00′	3°12′12"	83.89′	167.73′
252	442.00′	40°00′00"	160.87′	308.57′
253	150.00′	131°08′02"	330.17′	343.31′
254	300.00′	35°18′36"	95.48′	184.88′
255	160.00′	134°53′51"	385.30′	376.70′
256	3000.00′	3°11′30"	83.58′	167.11′
257	300.00′	26°46′34"	71.40′	140.21′
258	1600.00′	3°37′08"	50.55′	101.06′

ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-27**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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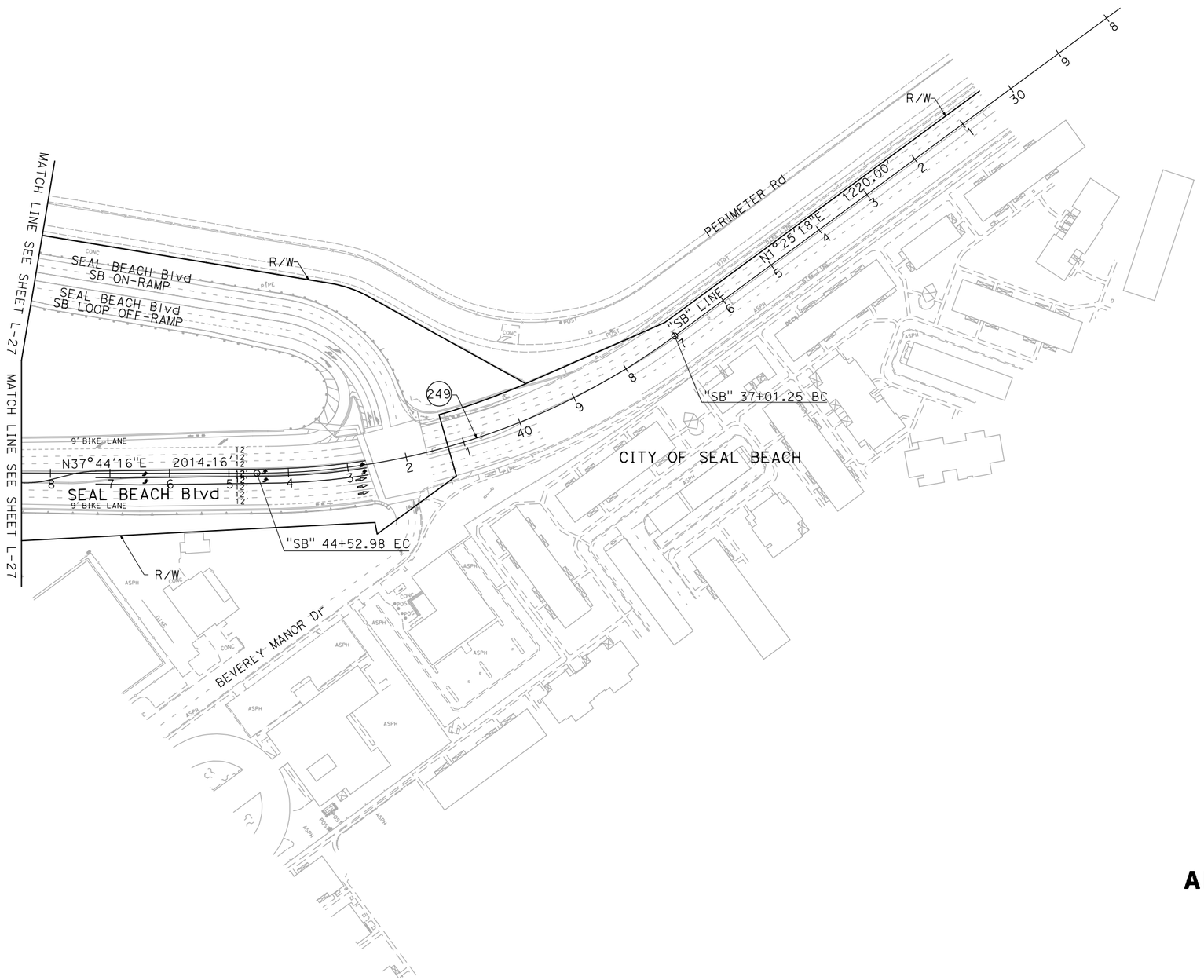
CURVE DATA

No.	R	Δ	T	L
249	1186.00′	36°18′58"	388.98′	751.73′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-28**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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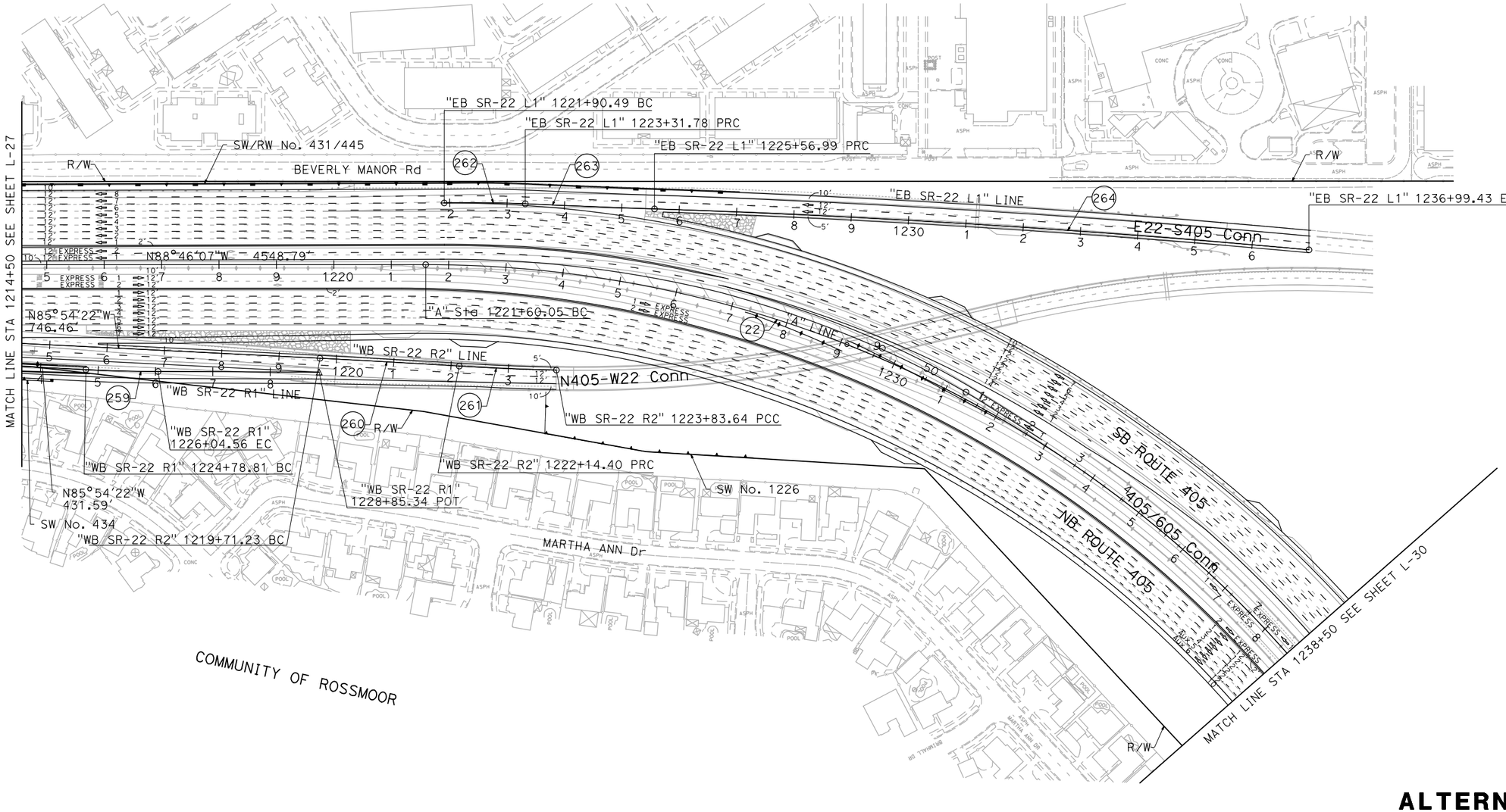
CURVE DATA

No.	R	Δ	T	L
22	2000.00′	58°25′06"	1118.18′	2039.19′
259	2700.00′	2°40′06"	62.89′	125.75′
260	20000.00′	0°41′48"	121.59′	243.17′
261	3967.24′	2°26′39"	84.63′	169.24′
262	2072.00′	3°54′25"	70.67′	141.29′
263	20000.00′	0°38′43"	112.61′	225.21′
264	20000.00′	3°16′22"	571.38′	1142.44′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-29**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

CURVE DATA

No.	R	Δ	T	L
22	2000.00′	58°25′06"	1118.18′	2039.19′
23	2357.00′	19°30′42"	405.25′	802.65′
24	2400.00′	36°15′41"	785.86′	1518.91′
265	2060.00′	8°22′54"	150.94′	301.35′
266	6624.34′	1°27′06"	83.93′	167.84′
267	6532.32′	2°20′45"	133.74′	267.44′
268	3910.75′	5°02′49"	172.35′	344.48′
269	1500.00′	12°44′27"	167.47′	333.55′

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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ORANGE COUNTY
TRANSPORTATION AUTHORITY
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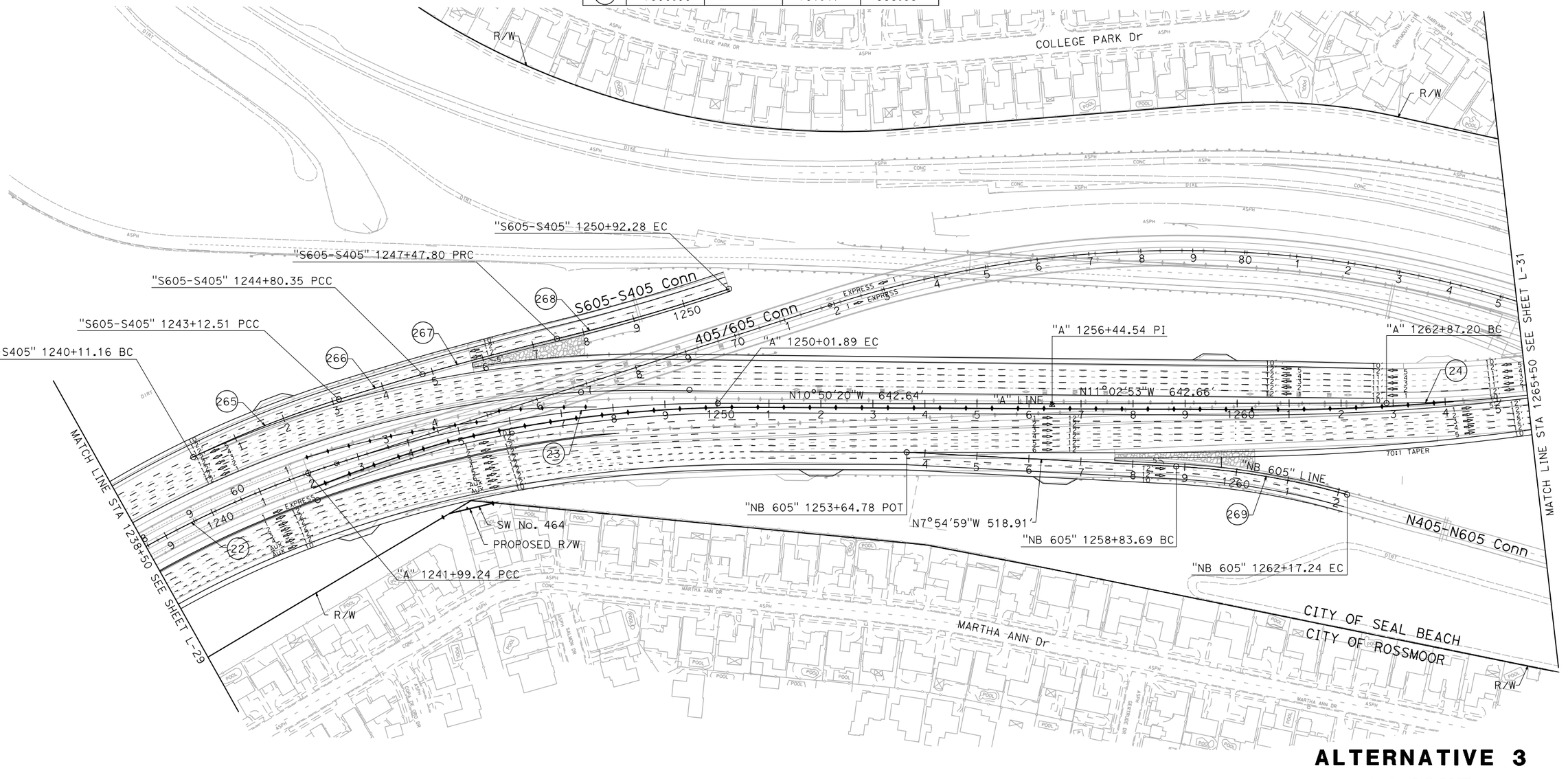
ORANGE, CA 92863



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-30**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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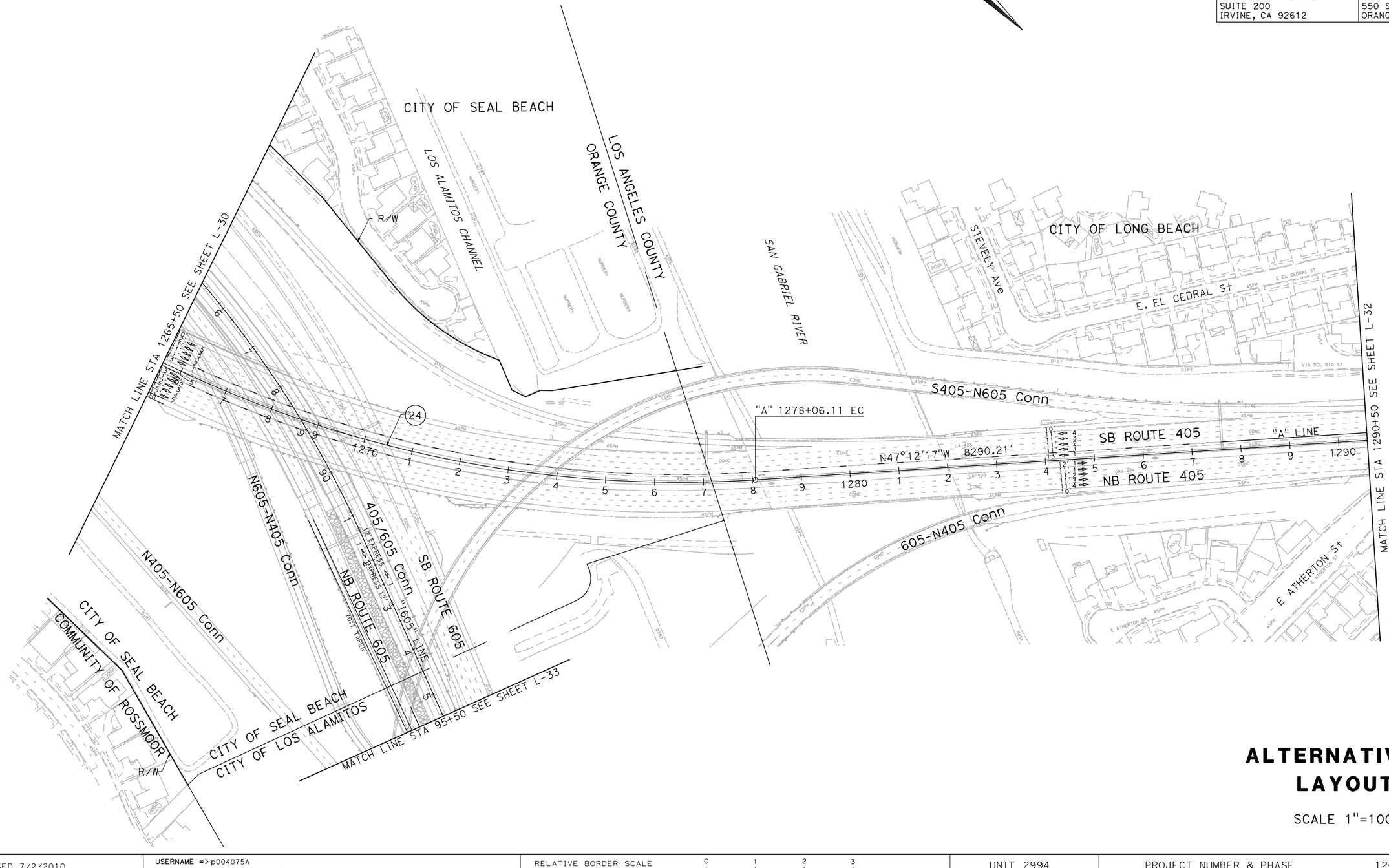
CURVE DATA

No.	R	Δ	T	L
(24)	2400.00′	36°15′41"	785.86′	1518.91′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-31**

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2994

PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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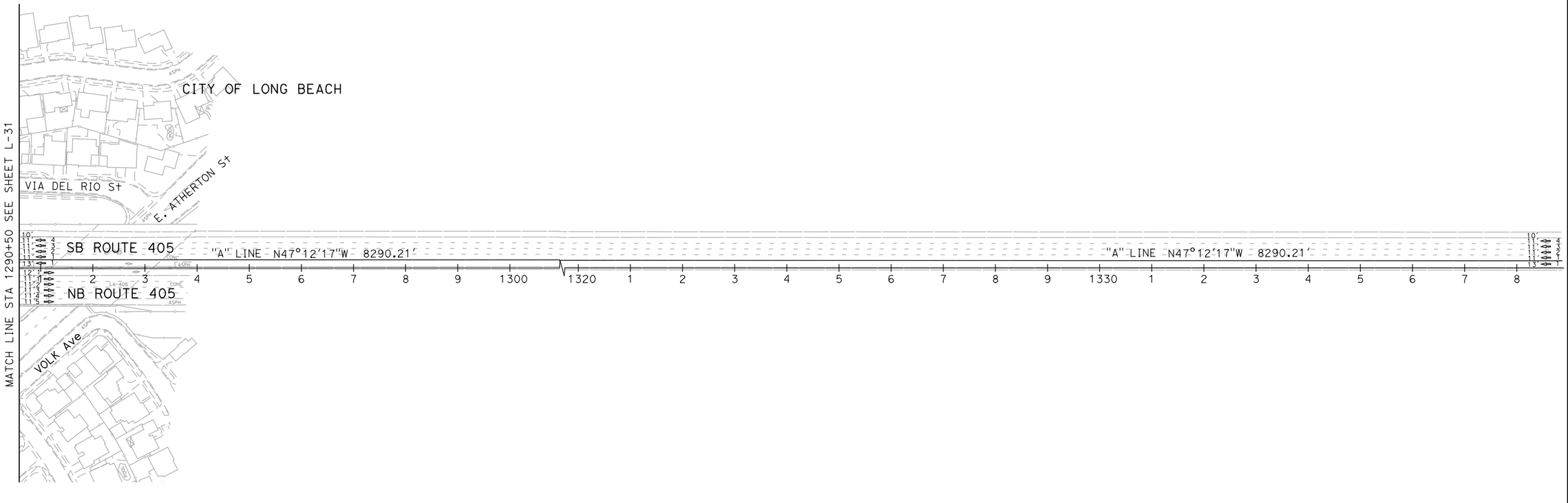

ALTERNATIVE 3
LAYOUT

SCALE 1"=100' **L-32**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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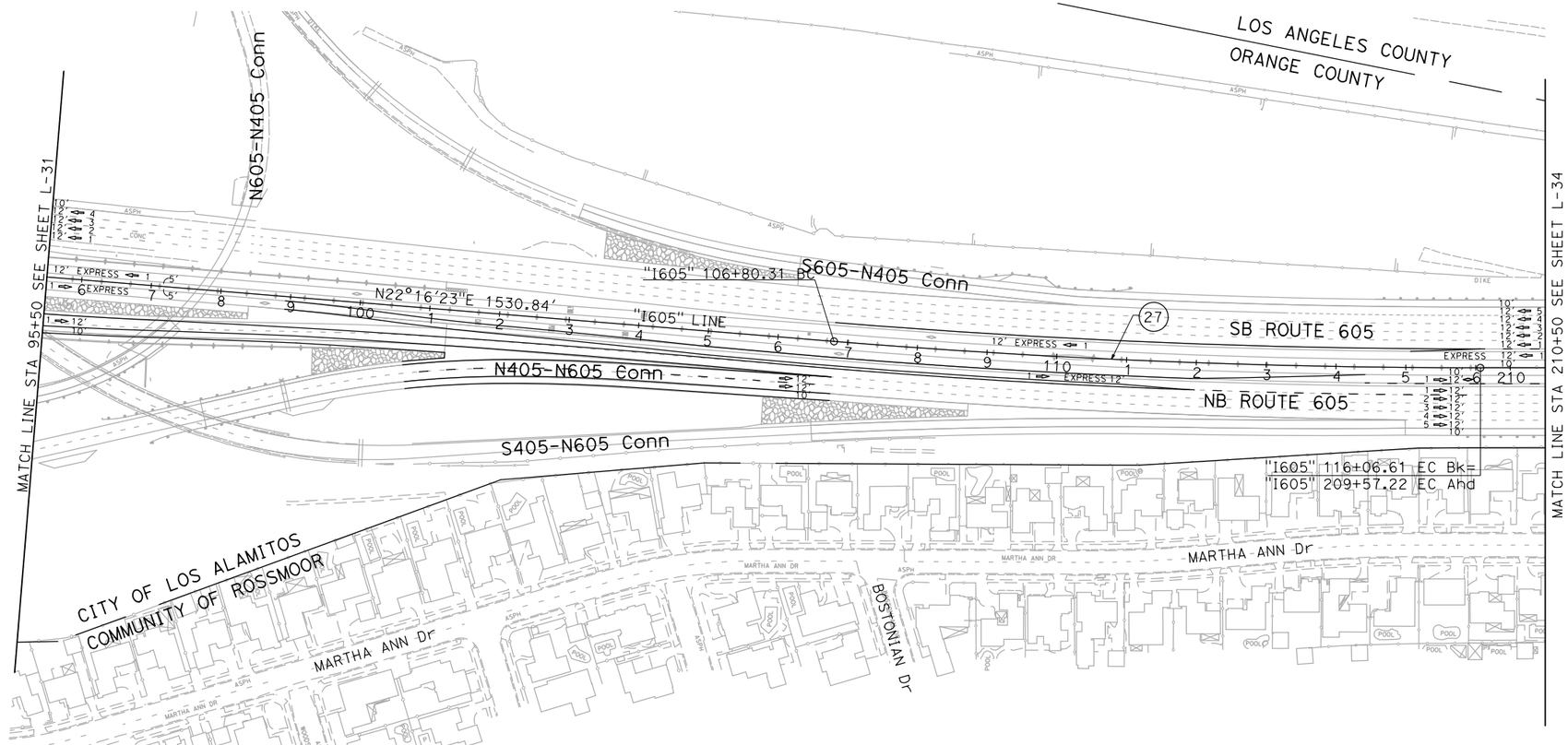
CURVE DATA

No.	R	Δ	T	L
(27)	11350.00′	4°40′34"	463.41′	926.30′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-33**

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DATE PLOTTED => 12/8/2014
TIME PLOTTED => 4:17:51 PM

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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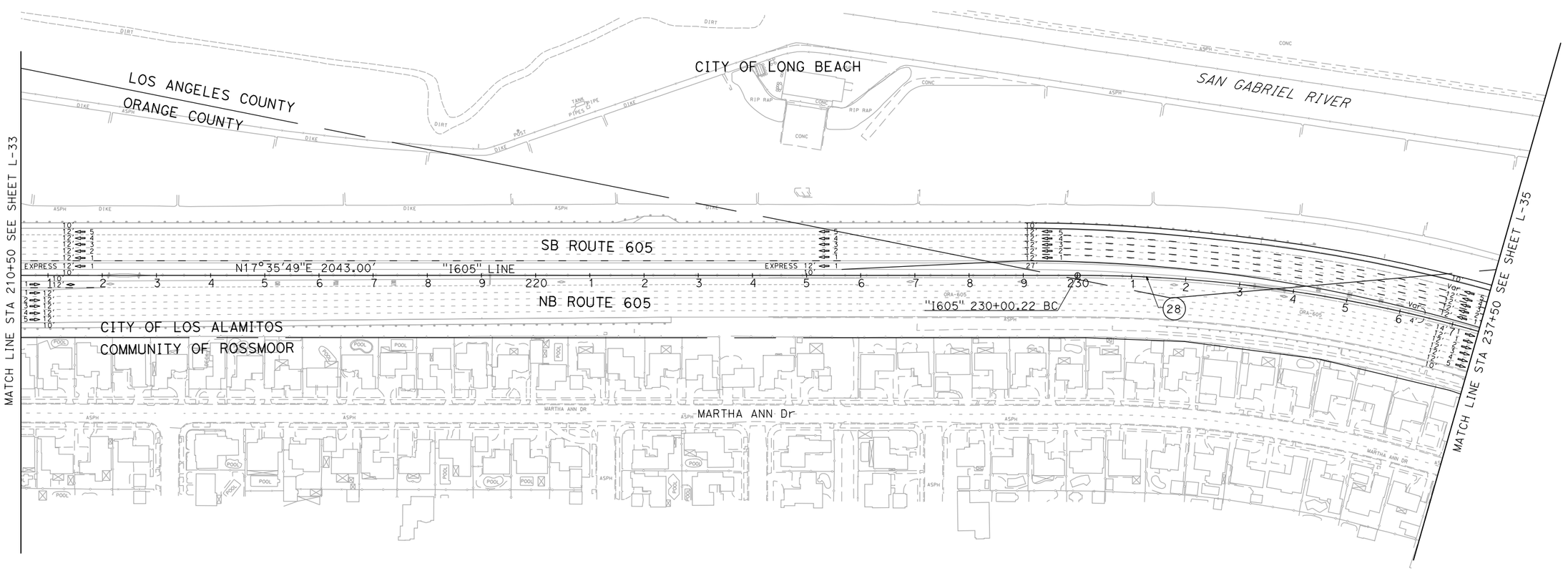
CURVE DATA

No.	R	Δ	T	L
(28)	2700.00′	24°24′00"	583.76′	1149.82′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-34**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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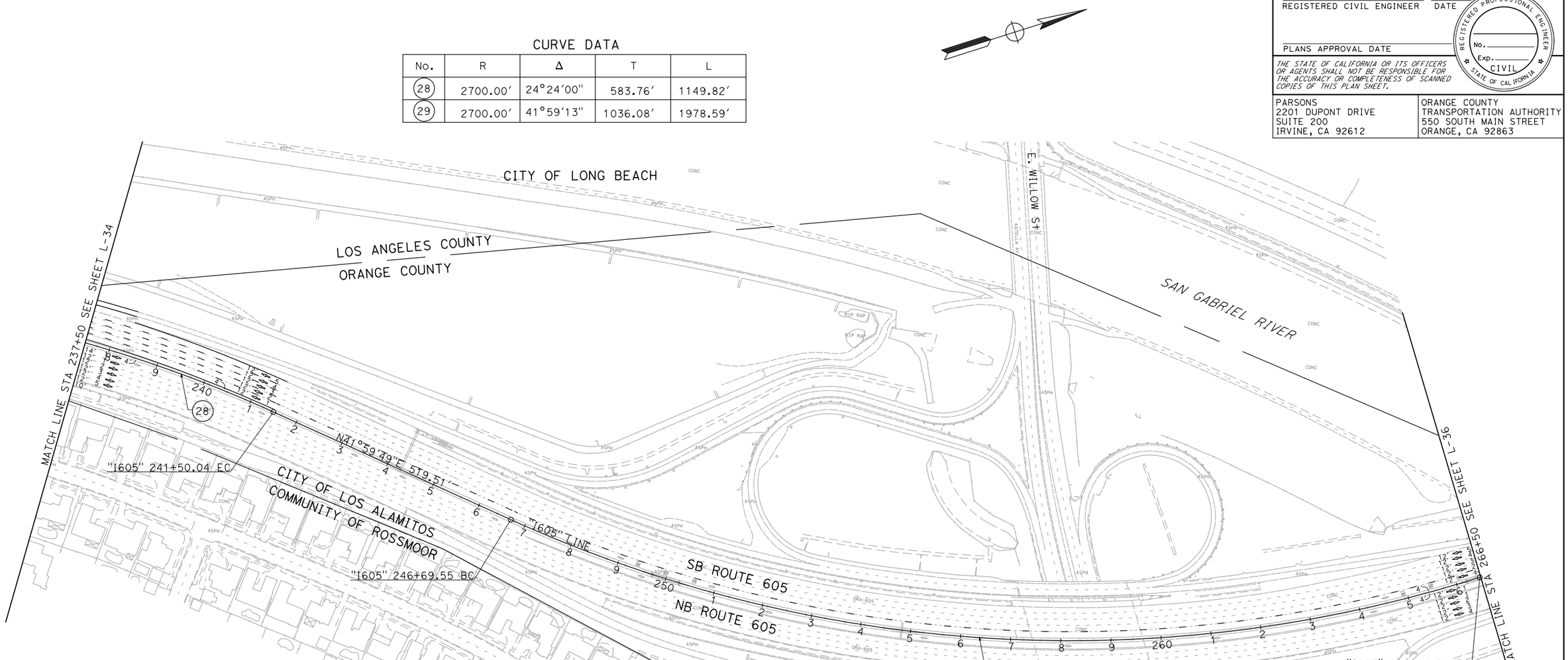
CURVE DATA

No.	R	Δ	T	L
28	2700.00′	24°24′00"	583.76′	1149.82′
29	2700.00′	41°59′13"	1036.08′	1978.59′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-35**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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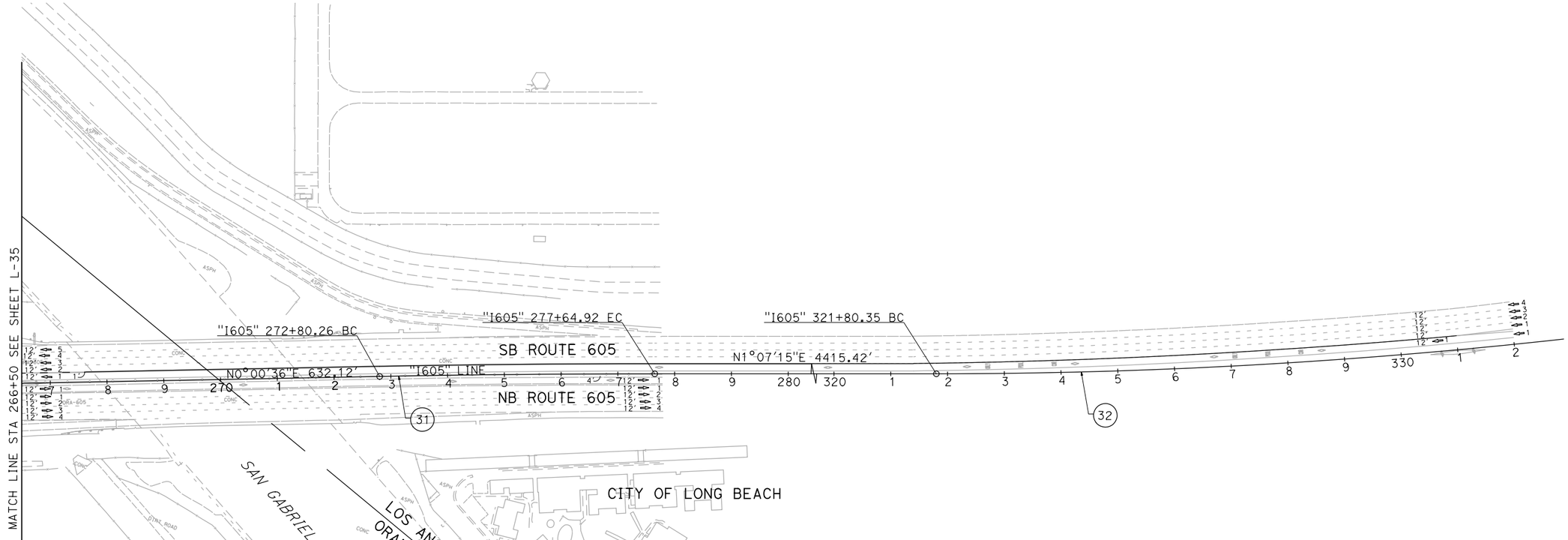
CURVE DATA

No.	R	Δ	T	L
(31)	25000.00′	1°06′39"	242.34′	484.67′
(32)	10000.00′	5°38′35"	492.85′	984.81′



ALTERNATIVE 3
LAYOUT

SCALE 1"=100′ **L-36**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
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DATE PLOTTED => 12/8/2014
TIME PLOTTED => 4:17:54 PM

BORDER LAST REVISED 7/2/2010
USERNAME => p004075A
DGN FILE => ALT 3 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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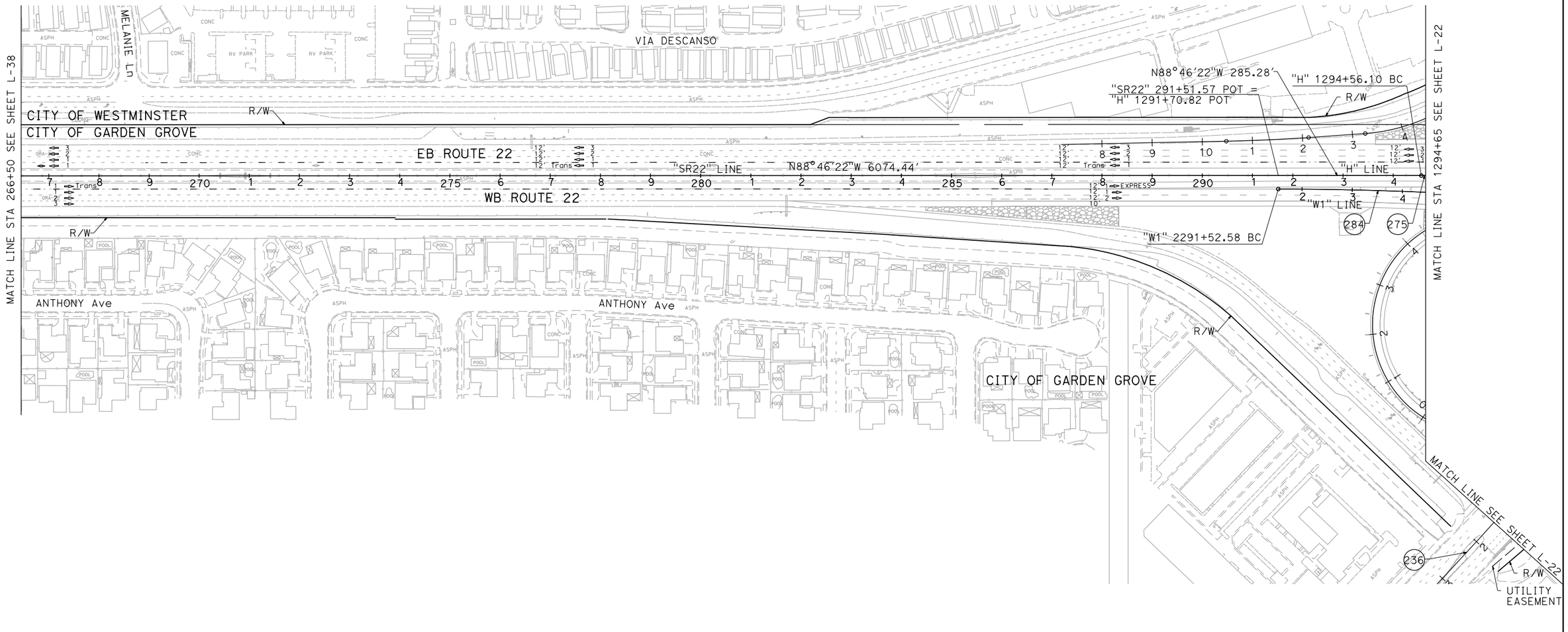
CURVE DATA

No.	R	Δ	T	L
236	7000.00′	3°20′52"	204.56′	409.00′
275	5000.00′	7°01′44"	307.08′	613.39′
284	6635.00′	7°33′49"	438.57′	875.87′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-37**

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CONSULTANT FUNCTIONAL SUPERVISOR
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DATE PLOTTED => 12/8/2014
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BORDER LAST REVISED 7/2/2010
USERNAME => p004075A
DGN FILE => ALT 3 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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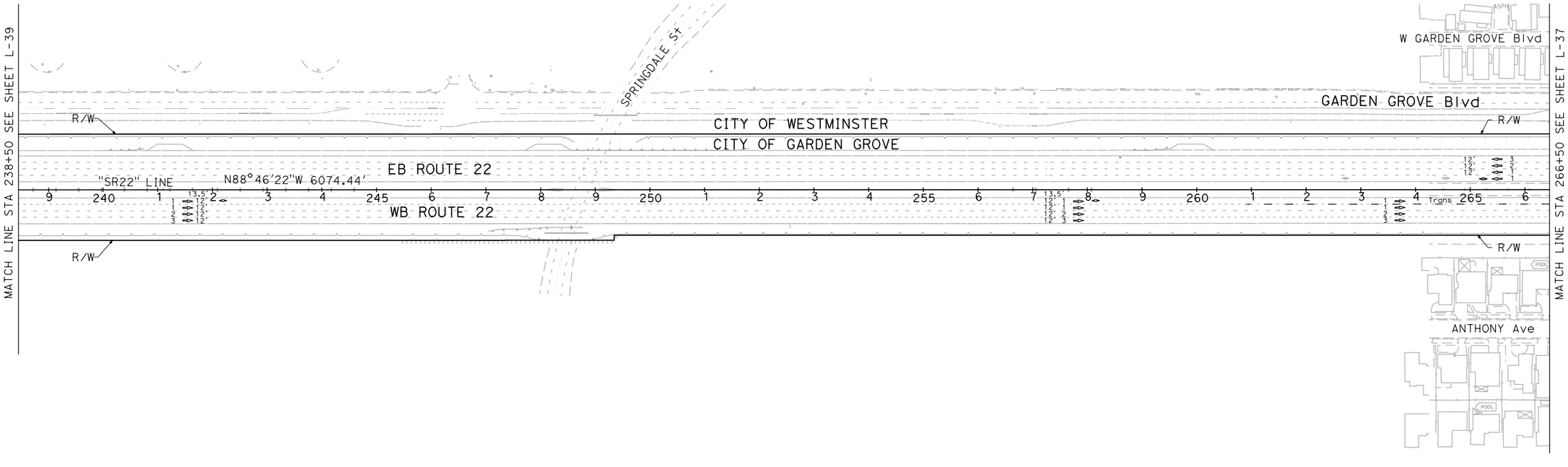

ALTERNATIVE 3 LAYOUT

SCALE 1"=100' **L-38**

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USERNAME => p004075A
DGN FILE => ALT 3 Layout Sheets.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2994
PROJECT NUMBER & PHASE 12000001800

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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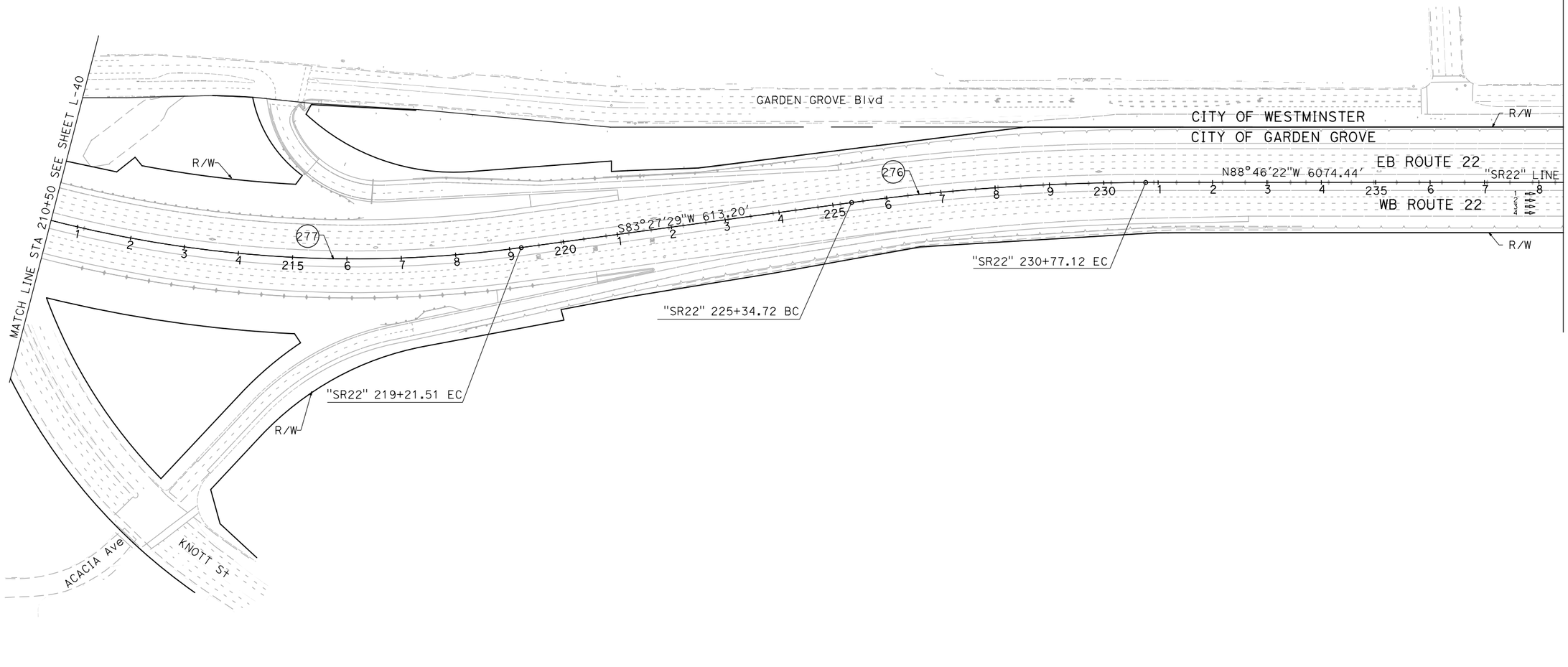
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
276	4000.00′	7°46′10"	271.62′	542.41′
277	2250.00′	39°44′45"	813.29′	1560.82′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-39**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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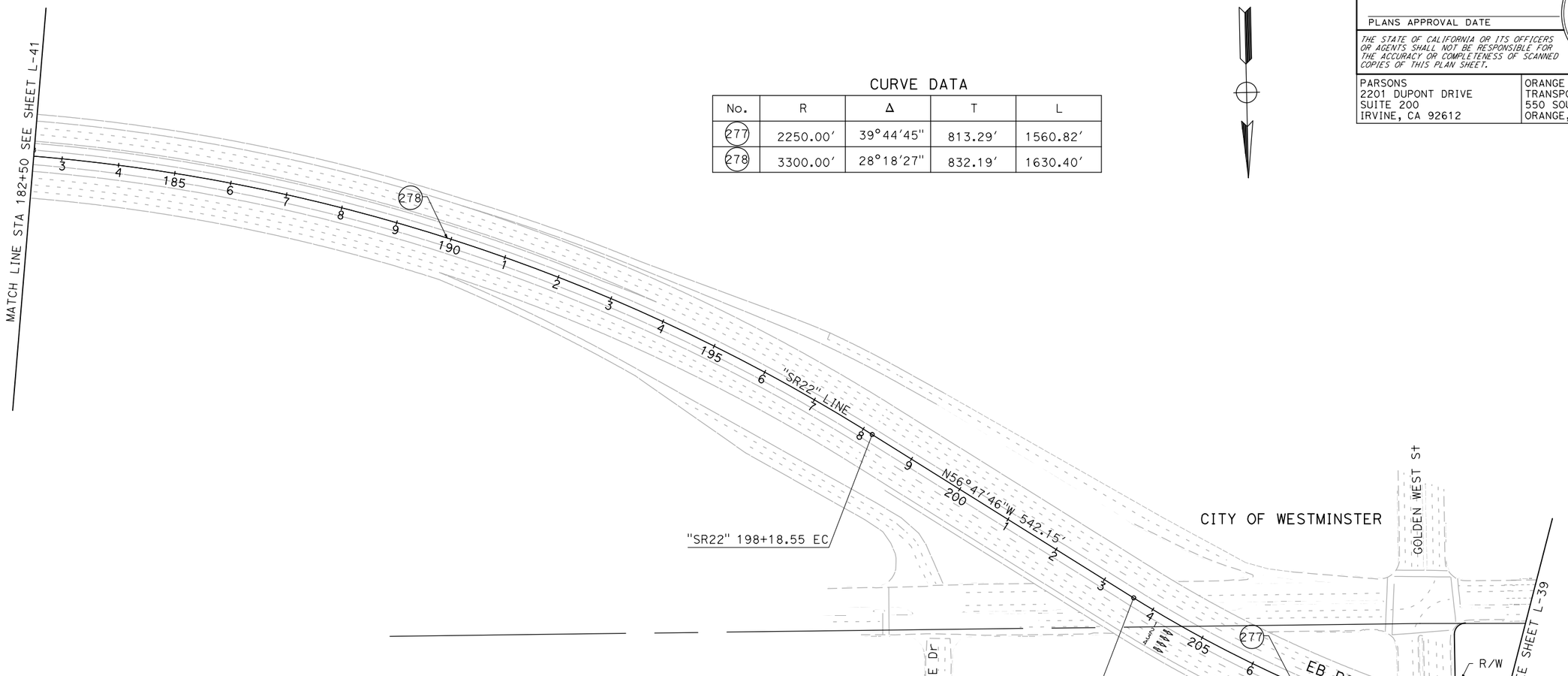
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
277	2250.00′	39°44′45"	813.29′	1560.82′
278	3300.00′	28°18′27"	832.19′	1630.40′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-40**

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12,7	Ora,LA	22,73, 405,605	R0.5/R0.7,R0.7/R3.8 R27.2/R27.8,9.3/24.2 0.0/1.2,3.5/R1.6,R0.0/R1.2		

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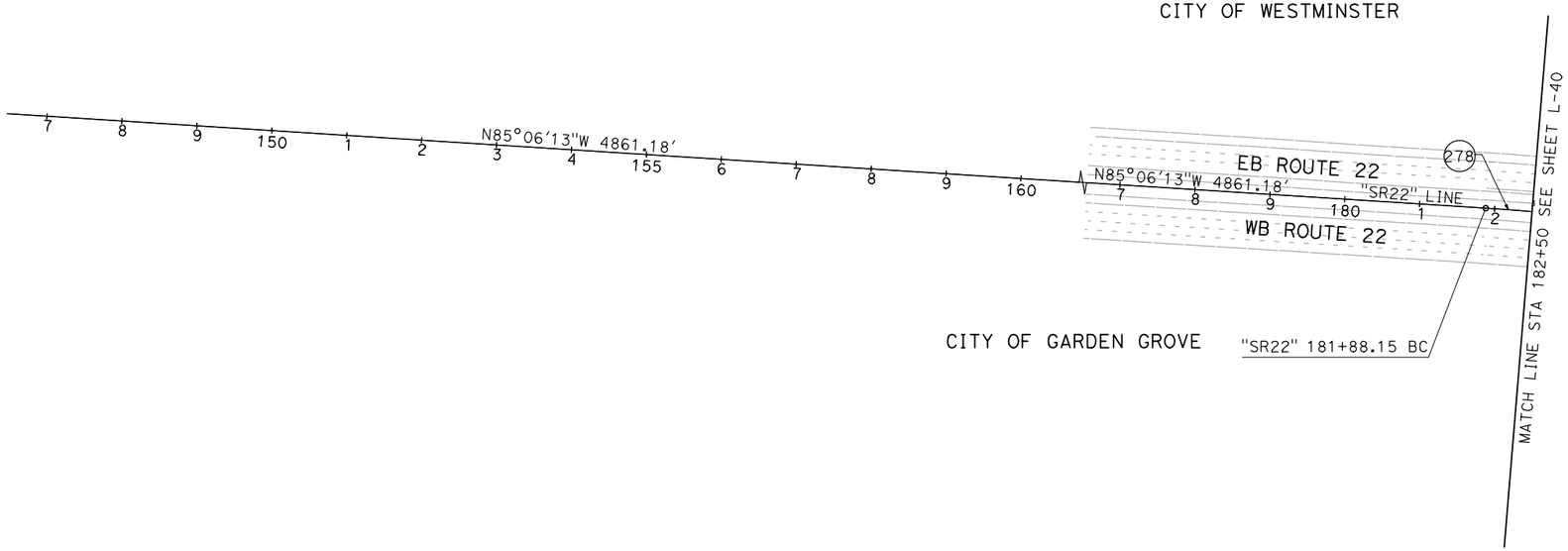
ORANGE COUNTY
TRANSPORTATION AUTHORITY
550 SOUTH MAIN STREET
ORANGE, CA 92863

CURVE DATA

No.	R	Δ	T	L
278	3300.00′	28°18′27"	832.19′	1630.40′



ALTERNATIVE 3 LAYOUT

SCALE 1"=100′ **L-41**

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