

11. 2035 No Build LOS Analysis— ICU Methodology



2010 San Juan Capistrano Master Plan
2035 Base Conditions
AM Peak Weekday

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Rancho Viejo/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.874
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 74 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Rancho Viejo Rd and Ortega Hwy with various traffic configurations.

Volume Module: 2035 Base AM. Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume, and OvlAdjVol.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. values for different approaches.

Capacity Analysis Module. Table showing Vol/Sat, OvlAdjV/S, and Crit Moves for various traffic movements.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.818
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 56 Level Of Service: D

Table with columns for Street Name (I-5 SB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: 2035 am base. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat and Crit Moves.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 El Cerritos-NB Ramp/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.837
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 81 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include El Cerritos-I-5 NB Ramps and Ortega Highway with sub-rows for North, South, East, and West Bound movements.

Table for Volume Module: 2035 base am. Columns include Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume.

Table for Saturation Flow Module. Columns include Sat/Lane, Adjustment, Lanes, Final Sat.

Table for Capacity Analysis Module. Columns include Vol/Sat, Crit Moves.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.670
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 48 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Del Obispo St/Ortega Hwy East and Ortega Hwy West with sub-rows for North, South, East, and West Bound movements.

Volume Module:2035 am base

Table with 12 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume.

Saturation Flow Module:

Table with 12 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 12 columns for capacity analysis metrics: Vol/Sat, Crit Moves.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.670
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 34 Level Of Service: B

Street Name: El Camino Real Ortega Hwy

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 1! 0 0 0 1 0 0 1 0 0 1 0 0

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Volume Module:2035 am base

Base Vol: 23 91 41 285 75 89 29 378 20 88 673 303

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 23 91 41 285 75 89 29 378 20 88 673 303

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 23 91 41 285 75 89 29 378 20 88 673 303

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 24 96 43 300 79 94 31 398 21 93 708 319

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 24 96 43 300 79 94 31 398 21 93 708 319

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 24 96 43 300 79 94 31 398 21 93 708 319

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.15 0.59 0.26 0.79 0.21 1.00 0.14 1.77 0.09 0.17 1.26 0.57

Final Sat.: 252 998 450 1346 354 1700 231 3010 159 281 2151 968

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Capacity Analysis Module:

Vol/Sat: 0.01 0.10 0.10 0.18 0.22 0.06 0.02 0.13 0.13 0.05 0.33 0.33

Crit Moves: **** **** **** ****

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.701
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 37 Level Of Service: C

Street Name: Camino Capistrano Ortega Hwy

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Protected Split Phase Split Phase

Rights: Ovl Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 1 0 1 1 0 1 0 0 0 0 0 0 0 1 0 0 0 1

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Volume Module:2035 am base

Base Vol: 0 494 16 189 630 0 0 0 0 109 0 368

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 0 494 16 189 630 0 0 0 0 109 0 368

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 0 494 16 189 630 0 0 0 0 109 0 368

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 0 520 17 199 663 0 0 0 0 115 0 387

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 0 520 17 199 663 0 0 0 0 115 0 387

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 0 520 17 199 663 0 0 0 0 115 0 387

OvlAdjVol: 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.00 1.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00

Final Sat.: 0 1700 1700 1700 1700 0 0 0 0 1700 0 1700

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Capacity Analysis Module:

Vol/Sat: 0.00 0.31 0.01 0.12 0.39 0.00 0.00 0.00 0.00 0.07 0.00 0.23

OvlAdjV/S: 0.00

Crit Moves: **** **** ****

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.509
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 24 Level Of Service: A

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Camino Capistrano and Verdugo St with North, South, East, and West Bound movements.

Volume Module:2035 am base

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat and Crit Moves.

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2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #48 Camino Capistrano/Forster Ln

Average Delay (sec/veh): 1.9 Worst Case Level Of Service: D[34.2]

Table with columns for Street Name, Approach, Movement, Control, Rights, Lanes, and Volume Module. Rows include Camino Capistrano and Forster Lane with various traffic parameters.

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, and Final Volume. Rows include 2035 am base and various traffic parameters.

Table with columns for Critical Gap Module and FollowUpTim. Rows include Critical Gp and FollowUpTim with various traffic parameters.

Table with columns for Capacity Module. Rows include Cnflct Vol, Potent Cap., Move Cap., and Volume/Cap with various traffic parameters.

Table with columns for Level Of Service Module. Rows include 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., SharedQueue, Shrd ConDel, Shared LOS, ApproachDel, and ApproachLOS with various traffic parameters.

Note: Queue reported is the number of cars per lane.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #56 Plaza Dr/Del Obispo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.432
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 21 Level Of Service: A

Table with columns for Street Name (Plaza Dr, Del Obispo St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:2035 am base

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat and Crit Moves.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.737
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 42 Level Of Service: C

Street Name: Camino Capistrano Del Obispo St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Protected Protected Protected Protected

Rights: Include Ovl Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 2 0 1 0 1 1 0 1 0 1 1 0 2 0 1 1 0 2 0 1

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Volume Module:2035 am base

Base Vol: 231 457 190 42 351 252 42 693 326 264 578 42

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 231 457 190 42 351 252 42 693 326 264 578 42

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 231 457 190 42 351 252 42 693 326 264 578 42

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 243 481 200 44 369 265 44 729 343 278 608 44

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 243 481 200 44 369 265 44 729 343 278 608 44

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 243 481 200 44 369 265 44 729 343 278 608 44

OvlAdjVol: 221

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 2.00 1.00 1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00

Final Sat.: 3400 1700 1700 1700 1700 1700 1700 3400 1700 1700 3400 1700

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Capacity Analysis Module:

Vol/Sat: 0.07 0.28 0.12 0.03 0.22 0.16 0.03 0.21 0.20 0.16 0.18 0.03

OvlAdjV/S: 0.13

Crit Moves: **** **** **** ****

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #63 Paseo Adelanto/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.535
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 25 Level Of Service: A

Street Name: Paseo Adelanto Del Obispo

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Protected Protected

Rights: Ovl Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 1 0 1 0 1 1 0 0 1 0 1 0 1 0 2 0 1

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Volume Module:2035 am base

Base Vol: 11 11 105 11 11 21 11 945 74 231 903 11

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 11 11 105 11 11 21 11 945 74 231 903 11

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 11 11 105 11 11 21 11 945 74 231 903 11

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 12 12 111 12 12 22 12 995 78 243 951 12

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 12 12 111 12 12 22 12 995 78 243 951 12

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 12 12 111 12 12 22 12 995 78 243 951 12

OvlAdjVol: 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 1.00 1.00 1.00 1.00 0.34 0.66 1.00 1.85 0.15 1.00 2.00 1.00

Final Sat.: 1700 1700 1700 1700 584 1116 1700 3153 247 1700 3400 1700

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Capacity Analysis Module:

Vol/Sat: 0.01 0.01 0.07 0.01 0.02 0.02 0.01 0.32 0.32 0.14 0.28 0.01

OvlAdjV/S: 0.00

Crit Moves: **** **** **** ****

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #66 Alipaz St/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.629
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 31 Level Of Service: B

Street Name: Alipaz St Del Obispo St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Split Phase Split Phase Protected Protected

Rights: Ovl Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 1 0 0 2 1 0 0 1 0 1 0 1 1 0

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Volume Module:2035 am base

Base Vol: 21 84 336 32 42 63 305 662 53 368 557 42

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 21 84 336 32 42 63 305 662 53 368 557 42

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 21 84 336 32 42 63 305 662 53 368 557 42

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 22 88 354 34 44 66 321 697 56 387 586 44

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 22 88 354 34 44 66 321 697 56 387 586 44

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 22 88 354 34 44 66 321 697 56 387 586 44

OvlAdjVol: 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.20 0.80 2.00 1.00 0.40 0.60 1.00 1.85 0.15 1.00 1.86 0.14

Final Sat.: 340 1360 3400 1700 680 1020 1700 3148 252 1700 3162 238

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Capacity Analysis Module:

Vol/Sat: 0.07 0.07 0.10 0.02 0.07 0.07 0.19 0.22 0.22 0.23 0.19 0.19

OvlAdjV/S: 0.00

Crit Moves: **** **** **** ****

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #85 Camino Capistrano/Ave Golondrina

Cycle (sec): 100 Critical Vol./Cap.(X): 0.487
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 23 Level Of Service: A

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Avenida Golondrina with North, South, East, and West bound movements.

Volume Module:2035 am base

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat and Crit Moves.

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2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #90 El Camino Real/Spring St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.631
Loss Time (sec): 0 Average Delay (sec/veh): 14.2
Optimal Cycle: 0 Level Of Service: B

Table with columns for Street Name (El Camino Real, Spring St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), Min. Green, and Lanes.

Table for Volume Module: 2035 am base, showing Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Table for Saturation Flow Module, showing Adjustment, Lanes, and Final Sat.

Table for Capacity Analysis Module, showing Vol/Sat, Crit Moves, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr, and AllWayAvgQ.

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Note: Queue reported is the number of cars per lane.

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2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #98 El Camino Real/Acjachema

Cycle (sec): 100 Critical Vol./Cap.(X): 0.502
Loss Time (sec): 0 Average Delay (sec/veh): 10.6
Optimal Cycle: 0 Level Of Service: B

Street Name: El Camino Real Acjachema St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Stop Sign Stop Sign Stop Sign Stop Sign
Rights: Include Include Include Include
Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0
Lanes: 0 0 1! 0 0 0 0 1! 0 0 0 0 1! 0 0

Volume Module:2035 am base

Table with 13 columns representing traffic movements and 13 rows of volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module:

Table with 13 columns representing traffic movements and 3 rows of saturation flow data including Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with 13 columns representing traffic movements and 13 rows of capacity analysis data including Vol/Sat, Crit Moves, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr, and AllWayAvgQ.

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Note: Queue reported is the number of cars per lane.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #99 Camino Capistrano/Acjachema St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.552
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 26 Level Of Service: A

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Camino Capistrano and Acjachema St with North, South, East, and West bound movements.

Volume Module:2035 am base

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat and Crit Moves.

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ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Rancho Viejo/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 1.031
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 130 Level Of Service: F

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Rancho Viejo Rd and Ortega Hwy with North, South, East, and West bounds.

Volume Module: 2035 pm base. Table showing Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume, and OvlAdjVol.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. values.

Capacity Analysis Module. Table showing Vol/Sat, OvlAdjV/S, and Crit Moves.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.877
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 75 Level Of Service: D

Table with columns for Street Name (I-5 SB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: 2035 pm base. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat and Crit Moves.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 El Cerritos-NB Ramp/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.769
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 64 Level Of Service: C

Street Name: El Cerritos-I-5 NB Ramps Ortega Highway

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Split Phase Split Phase Protected Protected

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 1! 0 1 0 0 0 0 1 1 0 2 1 1 0 0 2 1 0

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Volume Module:2035 pm base

Base Vol: 248 11 441 0 0 17 27 2180 672 0 2128 11

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 248 11 441 0 0 17 27 2180 672 0 2128 11

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 248 11 441 0 0 17 27 2180 672 0 2128 11

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 261 12 464 0 0 18 28 2295 707 0 2240 12

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 261 12 464 0 0 18 28 2295 707 0 2240 12

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 261 12 464 0 0 18 28 2295 707 0 2240 12

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.71 0.03 1.26 0.00 0.00 1.00 1.00 3.00 1.00 0.00 2.98 0.02

Final Sat.: 1205 53 2142 0 0 1700 1700 5100 1700 0 5074 26

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Capacity Analysis Module:

Vol/Sat: 0.22 0.22 0.22 0.00 0.00 0.01 0.02 0.45 0.42 0.00 0.44 0.44

Crit Moves: **** **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
PM Peak Weekday

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.737
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 58 Level Of Service: C

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, and Lanes. Rows include Del Obispo St/Ortega Hwy East and Ortega Hwy West with North, South, East, and West bounds.

Volume Module:2035 pm base

Table with 12 columns for traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume.

Saturation Flow Module:

Table with 12 columns for saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module:

Table with 12 columns for capacity analysis metrics: Vol/Sat, Crit Moves.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.580
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 28 Level Of Service: A

Table with columns for Street Name (El Camino Real, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:2035 pm base

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat and Crit Moves.

2010 San Juan Capistrano Master Plan
2035 Base Conditions
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.642
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 32 Level Of Service: B

Table with columns for Street Name (Camino Capistrano, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Permitted, Protected, Split Phase), Rights (Ovl, Include), and various traffic volume metrics (Min. Green, Y+R, Lanes).

Volume Module:2035 pm base

Table showing traffic volume data for 2035 pm base, including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume, and OvlAdjVol.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, OvlAdjV/S, and Crit Moves.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.426
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 21 Level Of Service: A

Street Name: Camino Capistrano Verdugo St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Protected Protected Split Phase Split Phase

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 1 0 1 0 0 0 0 0 1 0 1 0 0 0 0 0

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Volume Module:2035 pm base

Base Vol: 38 556 0 0 438 43 52 0 48 0 0 0

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 38 556 0 0 438 43 52 0 48 0 0 0

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 38 556 0 0 438 43 52 0 48 0 0 0

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 40 585 0 0 461 45 55 0 51 0 0 0

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 40 585 0 0 461 45 55 0 51 0 0 0

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 40 585 0 0 461 45 55 0 51 0 0 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 1.00 1.00 0.00 0.00 0.91 0.09 1.00 0.00 1.00 0.00 0.00 0.00

Final Sat.: 1700 1700 0 0 1548 152 1700 0 1700 0 0 0

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Capacity Analysis Module:

Vol/Sat: 0.02 0.34 0.00 0.00 0.30 0.30 0.03 0.00 0.03 0.00 0.00 0.00

Crit Moves: **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
PM Peak Weekday

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #48 Camino Capistrano/Forster Ln

Average Delay (sec/veh): 4.4 Worst Case Level Of Service: F[60.6]

Table with columns for Street Name, Approach, Movement, Control, Rights, Lanes, and data for Camino Capistrano and Forster Lane.

Table with columns for Volume Module: 2035 pm base and various volume metrics like Base Vol, Growth Adj, Initial Bse, etc.

Table with columns for Critical Gap Module and metrics like Critical Gp, FollowUpTim.

Table with columns for Capacity Module and metrics like Cnflct Vol, Potent Cap., Move Cap., Volume/Cap.

Table with columns for Level Of Service Module and metrics like 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., etc.

Note: Queue reported is the number of cars per lane.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #56 Plaza Dr/Del Obispo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.544
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 26 Level Of Service: A

Table with columns for Street Name (Plaza Dr, Del Obispo St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:2035 pm base

Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and FinalVolume.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table with columns for Vol/Sat and Crit Moves.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 1.024
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 130 Level Of Service: F

Street Name: Camino Capistrano Del Obispo St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Protected Protected Protected Protected

Rights: Include Ovl Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 2 0 1 0 1 1 0 1 0 1 1 0 2 0 1 1 0 2 0 1

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Volume Module:2035 pm base

Base Vol: 399 354 369 42 606 32 231 588 368 400 662 84

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 399 354 369 42 606 32 231 588 368 400 662 84

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 399 354 369 42 606 32 231 588 368 400 662 84

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 420 373 388 44 638 34 243 619 387 421 697 88

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 420 373 388 44 638 34 243 619 387 421 697 88

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 420 373 388 44 638 34 243 619 387 421 697 88

OvlAdjVol: 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 2.00 1.00 1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00 2.00 1.00

Final Sat.: 3400 1700 1700 1700 1700 1700 1700 3400 1700 1700 3400 1700

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Capacity Analysis Module:

Vol/Sat: 0.12 0.22 0.23 0.03 0.38 0.02 0.14 0.18 0.23 0.25 0.20 0.05

OvlAdjV/S: 0.00

Crit Moves: **** **** **** ****

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #63 Paseo Adelanto/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.535
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 25 Level Of Service: A

Table with columns for Street Name (Paseo Adelanto, Del Obispo), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module:2035 pm base

Table with columns for various volume and adjustment factors: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume, OvlAdjVol.

Saturation Flow Module:

Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat. values.

Capacity Analysis Module:

Table with columns for Vol/Sat, OvlAdjV/S, and Crit Moves.

2010 San Juan Capistrano Master Plan
2035 Base Conditions
PM Peak Weekday

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #66 Alipaz St/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.604
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 29 Level Of Service: B

Table with columns for Street Name (Alipaz St, Del Obispo St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Split Phase, Protected), Rights (Ovl, Include), and various traffic volume metrics (Min. Green, Y+R, Lanes).

Volume Module:2035 pm base

Table showing traffic volume data for 2035 pm base, including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, FinalVolume, and OvlAdjVol.

Saturation Flow Module:

Table showing saturation flow data, including Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module:

Table showing capacity analysis data, including Vol/Sat, OvlAdjV/S, and Crit Moves.

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Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #85 Camino Capistrano/Ave Golondrina

Cycle (sec): 100 Critical Vol./Cap.(X): 0.658
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 33 Level Of Service: B

Street Name: Camino Capistrano Avenida Golondrina

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Protected Protected Permitted Permitted

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 1 0 1 1 0 1 0 1 1 0 0 0 1! 0 0 1 0 0 1 0

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Volume Module:2035 pm base

Base Vol: 25 840 137 111 1172 75 118 19 34 163 29 67

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 25 840 137 111 1172 75 118 19 34 163 29 67

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 25 840 137 111 1172 75 118 19 34 163 29 67

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 26 884 144 117 1234 79 124 20 36 172 31 71

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 26 884 144 117 1234 79 124 20 36 172 31 71

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 26 884 144 117 1234 79 124 20 36 172 31 71

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 1.00 1.72 0.28 1.00 1.88 0.12 0.69 0.11 0.20 1.00 0.30 0.70

Final Sat.: 1700 2923 477 1700 3196 204 1173 189 338 1700 514 1186

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Capacity Analysis Module:

Vol/Sat: 0.02 0.30 0.30 0.07 0.39 0.39 0.07 0.11 0.11 0.10 0.06 0.06

Crit Moves: **** **** **** ****

2010 San Juan Capistrano Master Plan
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PM Peak Weekday

Level Of Service Computation Report
1994 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #90 El Camino Real/Spring St

Cycle (sec): 1 Critical Vol./Cap.(X): 0.609
Loss Time (sec): 0 Average Delay (sec/veh): 7.1
Optimal Cycle: 0 Level Of Service: B

Table with columns for Street Name (El Camino Real, Spring St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), and Lanes (0, 1, 0, 0).

Volume Module: 2035 pm base

Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume for each approach.

Saturation Flow Module:

Table showing saturation flow data including Sat/Lane, Adjustment, Lanes, and Final Sat. for each approach.

Capacity Analysis Module:

Table showing capacity analysis data including Vol/Sat, Crit Moves, ApproachV/S, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, and LOS by Appr for each approach.

2010 San Juan Capistrano Master Plan
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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #98 El Camino Real/Acjachema

Cycle (sec): 100 Critical Vol./Cap.(X): 0.315
Loss Time (sec): 0 Average Delay (sec/veh): 8.6
Optimal Cycle: 0 Level Of Service: A

Table with columns for Street Name (El Camino Real, Acjachema St), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control (Stop Sign), Rights (Include), Min. Green, and Lanes.

Volume Module: 2035 base pm. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat, Crit Moves, Delay/Veh, Delay Adj, AdjDel/Veh, LOS by Move, ApproachDel, Delay Adj, ApprAdjDel, LOS by Appr, and AllWayAvgQ.

2010 San Juan Capistrano Master Plan
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PM Peak Weekday

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #99 Camino Capistrano/Acjachema St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.498
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 24 Level Of Service: A

Street Name: Camino Capistrano Acjachema St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Protected Split Phase Split Phase

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 0 1 0 1 0 1 0 0 0 0 0 0 1 0 0

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Volume Module:2035 pm base

Base Vol: 0 613 26 41 414 0 0 0 0 18 0 26

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 0 613 26 41 414 0 0 0 0 18 0 26

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 0 613 26 41 414 0 0 0 0 18 0 26

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 0 645 27 43 436 0 0 0 0 19 0 27

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 0 645 27 43 436 0 0 0 0 19 0 27

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 0 645 27 43 436 0 0 0 0 19 0 27

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.00 0.96 0.04 1.00 1.00 0.00 0.00 0.00 0.00 0.41 0.00 0.59

Final Sat.: 0 1631 69 1700 1700 0 0 0 0 695 0 1005

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Capacity Analysis Module:

Vol/Sat: 0.00 0.40 0.40 0.03 0.26 0.00 0.00 0.00 0.00 0.03 0.00 0.03

Crit Moves: **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 I-5 SB Ramps/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.796
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 51 Level Of Service: C

Table with columns for Street Name (I-5 SB Ramps, Ortega Hwy), Approach (North Bound, South Bound, East Bound, West Bound), Movement (L, T, R), Control, Rights, Min. Green, Y+R, and Lanes.

Volume Module: 2035 sat base. Table with columns for Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, and Final Volume.

Saturation Flow Module. Table with columns for Sat/Lane, Adjustment, Lanes, and Final Sat.

Capacity Analysis Module. Table with columns for Vol/Sat and Crit Moves.

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 El Cerritos-NB Ramp/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.807
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 72 Level Of Service: D

Street Name: El Cerritos-I-5 NB Ramps Ortega Highway

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Split Phase Split Phase Protected Protected

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 1! 0 1 0 0 0 0 1 1 0 2 1 1 0 0 2 1 0

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Volume Module:2035 Saturday Base

Base Vol: 199 10 575 0 0 11 11 1470 642 0 2253 10

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 199 10 575 0 0 11 11 1470 642 0 2253 10

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 199 10 575 0 0 11 11 1470 642 0 2253 10

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 209 11 605 0 0 12 12 1547 676 0 2372 11

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 209 11 605 0 0 12 12 1547 676 0 2372 11

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 209 11 605 0 0 12 12 1547 676 0 2372 11

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.51 0.02 1.47 0.00 0.00 1.00 1.00 2.78 1.22 0.00 2.99 0.01

Final Sat.: 863 43 2494 0 0 1700 1700 4733 2067 0 5077 23

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Capacity Analysis Module:

Vol/Sat: 0.24 0.24 0.24 0.00 0.00 0.01 0.01 0.33 0.33 0.00 0.47 0.47

Crit Moves: **** **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #9 Del Obispo/Ortega Hwy

Cycle (sec): 120 Critical Vol./Cap.(X): 0.645
Loss Time (sec): 10 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 46 Level Of Service: B

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Del Obispo St/Ortega Hwy East and Ortega Hwy West with sub-rows for North, South, East, and West Bound movements.

Volume Module: 2035 sat base. Table showing traffic volume metrics: Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume.

Saturation Flow Module. Table showing saturation flow metrics: Sat/Lane, Adjustment, Lanes, Final Sat.

Capacity Analysis Module. Table showing capacity analysis metrics: Vol/Sat, Crit Moves.

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #10 El Camino Real/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.526
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 25 Level Of Service: A

Street Name: El Camino Real Ortega Hwy

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Permitted Permitted Permitted

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 1! 0 0 0 1 0 0 1 0 0 1 0 0

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Volume Module:2035 sat base

Base Vol: 15 64 98 183 45 44 19 376 31 84 501 193

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 15 64 98 183 45 44 19 376 31 84 501 193

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 15 64 98 183 45 44 19 376 31 84 501 193

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 16 67 103 193 47 46 20 396 33 88 527 203

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 16 67 103 193 47 46 20 396 33 88 527 203

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 16 67 103 193 47 46 20 396 33 88 527 203

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.08 0.36 0.56 0.80 0.20 1.00 0.09 1.76 0.15 0.21 1.29 0.50

Final Sat.: 144 615 941 1364 336 1700 152 3001 247 367 2189 843

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Capacity Analysis Module:

Vol/Sat: 0.01 0.11 0.11 0.11 0.14 0.03 0.01 0.13 0.13 0.05 0.24 0.24

Crit Moves: **** **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #11 Camino Capistrano/Ortega Hwy

Cycle (sec): 100 Critical Vol./Cap.(X): 0.540
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 25 Level Of Service: A

Street Name: Camino Capistrano Ortega Hwy

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Permitted Protected Split Phase Split Phase

Rights: Ovl Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 0 0 1 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1

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Volume Module:2035 sat base

Base Vol: 0 381 143 148 423 0 0 0 0 262 0 203

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 0 381 143 148 423 0 0 0 0 262 0 203

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 0 381 143 148 423 0 0 0 0 262 0 203

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 0 401 151 156 445 0 0 0 0 276 0 214

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 0 401 151 156 445 0 0 0 0 276 0 214

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 0 401 151 156 445 0 0 0 0 276 0 214

OvlAdjVol: 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 0.00 1.00 1.00 1.00 1.00 0.00 0.00 0.00 0.00 1.00 0.00 1.00

Final Sat.: 0 1700 1700 1700 1700 0 0 0 0 1700 0 1700

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Capacity Analysis Module:

Vol/Sat: 0.00 0.24 0.09 0.09 0.26 0.00 0.00 0.00 0.00 0.16 0.00 0.13

OvlAdjV/S: 0.00

Crit Moves: **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #17 Camino Capistrano/Verdugo St

Cycle (sec): 100 Critical Vol./Cap.(X): 0.576
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 27 Level Of Service: A

Street Name: Camino Capistrano Verdugo St

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Protected Protected Split Phase Split Phase

Rights: Include Include Include Include

Min. Green: 0 0 0 0 0 0 0 0 0 0 0 0 0

Y+R: 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0

Lanes: 1 0 1 0 0 0 0 0 1 0 0 0 0 0

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Volume Module:2035 sat base

Base Vol: 67 445 0 0 609 86 87 0 65 0 0 0

Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Initial Bse: 67 445 0 0 609 86 87 0 65 0 0 0

Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 67 445 0 0 609 86 87 0 65 0 0 0

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95

PHF Volume: 71 468 0 0 641 91 92 0 68 0 0 0

Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0

Reduced Vol: 71 468 0 0 641 91 92 0 68 0 0 0

PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

FinalVolume: 71 468 0 0 641 91 92 0 68 0 0 0

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Saturation Flow Module:

Sat/Lane: 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700 1700

Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Lanes: 1.00 1.00 0.00 0.00 0.88 0.12 1.00 0.00 1.00 0.00 0.00 0.00

Final Sat.: 1700 1700 0 0 1490 210 1700 0 1700 0 0 0

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Capacity Analysis Module:

Vol/Sat: 0.04 0.28 0.00 0.00 0.43 0.43 0.05 0.00 0.04 0.00 0.00 0.00

Crit Moves: **** **** ****

2010 San Juan Capistrano Master Plan
2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #48 Camino Capistrano/Forster Ln

Average Delay (sec/veh): 2.4 Worst Case Level Of Service: E[41.9]

Table with columns for Street Name, Approach, Movement, Control, Rights, Lanes, and data for Camino Capistrano and Forster Lane.

Table with columns for Volume Module: 2035 sat base and various volume metrics like Base Vol, Growth Adj, Initial Bse, etc.

Table with columns for Critical Gap Module and metrics like Critical Gp, FollowUpTim.

Table with columns for Capacity Module and metrics like Cnflct Vol, Potent Cap., Move Cap., Volume/Cap.

Table with columns for Level Of Service Module and metrics like 2Way95thQ, Control Del, LOS by Move, Movement, Shared Cap., Shared Queue, Shrd ConDel, Shared LOS, ApproachDel, ApproachLOS.

Note: Queue reported is the number of cars per lane.

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2035 Base Conditions
Saturday Peak

Level Of Service Computation Report

ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #58 Camino Capistrano/Del Obispo

Cycle (sec): 100 Critical Vol./Cap.(X): 0.826
Loss Time (sec): 5 Average Delay (sec/veh): xxxxxxxx
Optimal Cycle: 58 Level Of Service: D

Table with columns for Street Name, Approach, Movement, Control, Rights, Min. Green, Y+R, Lanes. Rows include Camino Capistrano and Del Obispo St with various traffic movement details.

Volume Module: 2035 base sat. Table showing traffic volume data including Base Vol, Growth Adj, Initial Bse, Added Vol, PasserByVol, Initial Fut, User Adj, PHF Adj, PHF Volume, Reduct Vol, Reduced Vol, PCE Adj, MLF Adj, Final Volume, and OvlAdjVol.

Saturation Flow Module. Table showing Sat/Lane, Adjustment, Lanes, and Final Sat. values for different traffic movements.

Capacity Analysis Module. Table showing Vol/Sat, OvlAdjV/S, and Crit Moves for various traffic movements.
