APPENDIX F

YEAR 2015 AND 2035 INTERSECTION LEVEL OF SERVICE CALCULATION WORKSHEETS (ICU AND HCM) – ALTERNATIVE NO. 1

YEAR 2015

TWO-WAY OPERATIONS

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 PCH & Blue Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.462
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	22	Level Of Service:	A

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:	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 0	1	1 0	1 0	1	1 0	2 1	0	1 0	1 1	0
Volume Module:												
Base Vol:	48	9	18	40	5	9	7	816	11	34	1071	41
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	51	10	19	42	5	10	7	861	12	36	1131	43
Added Vol:	2	0	0	3	0	0	0	75	1	0	44	1
Approved Pr:	4	1	5	0	3	5	7	49	0	10	41	0
Initial Fut:	57	11	24	45	8	15	14	985	13	46	1216	44
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:	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 Volume:	57	11	24	45	8	15	14	985	13	46	1216	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	57	11	24	45	8	15	14	985	13	46	1216	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:	57	11	24	45	8	15	14	985	13	46	1216	44
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	1.00	1.00	1.00	2.96	0.04	1.00	1.93	0.07
Final Sat.:	1700	1700	1700	1700	1700	1700	1700	5036	64	1700	3280	120
Capacity Analysis Module:												
Vol/Sat:	0.03	0.01	0.01	0.03	0.00	0.01	0.01	0.20	0.20	0.03	0.37	0.37
Crit Moves:		****		****			****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 PCH & Ruby Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.485
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	23	Level Of Service:	A

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:	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 0	1! 0	0	1 0	1	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	5	5	10	7	6	10	8	642	1	10	1027	3
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	5	5	11	7	6	11	8	678	1	11	1084	3
Added Vol:	1	0	6	0	0	0	0	68	0	3	32	0
Approved Pr:	98	0	0	0	0	0	0	38	0	-1	76	0
Initial Fut:	104	5	17	7	6	11	8	784	1	13	1192	3
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:	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 Volume:	104	5	17	7	6	11	8	784	1	13	1192	3
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	104	5	17	7	6	11	8	784	1	13	1192	3
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:	104	5	17	7	6	11	8	784	1	13	1192	3
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:	0.83	0.04	0.13	0.30	0.26	0.44	1.00	1.99	0.01	1.00	1.99	0.01
Final Sat.:	1406	71	223	517	443	739	1700	3395	5	1700	3391	9
Capacity Analysis Module:												
Vol/Sat:	0.06	0.07	0.07	0.00	0.01	0.01	0.00	0.23	0.23	0.01	0.35	0.35
Crit Moves:		****		****			****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 PCH & Amber Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.533
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

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:	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 0	1! 0	0	1 0	1	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	117	5	20	35	20	25	17	659	17	81	1019	10
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	124	5	21	37	21	26	18	696	18	86	1076	11
Added Vol:	11	2	11	7	2	2	3	84	15	17	36	1
Approved Pr:	-58	0	0	0	0	0	0	38	0	0	133	0
Initial Fut:	77	7	32	44	23	28	21	818	33	103	1245	12
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:	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 Volume:	77	7	32	44	23	28	21	818	33	103	1245	12
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	77	7	32	44	23	28	21	818	33	103	1245	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:	77	7	32	44	23	28	21	818	33	103	1245	12
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:	0.66	0.06	0.28	0.46	0.24	0.30	1.00	1.92	0.08	1.00	1.98	0.02
Final Sat.:	1122	107	471	783	412	506	1700	3268	132	1700	3369	31
Capacity Analysis Module:												
Vol/Sat:	0.05	0.07	0.07	0.03	0.06	0.06	0.01	0.25	0.25	0.06	0.37	0.37
Crit Moves:	****				****		****				****	

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Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 PCH & Violet Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.531
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

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 0	1! 0	0	0 1	0 1	0	0 1	0 1	0
Volume Module:												
Base Vol:	136	7	11	13	11	21	17	704	1	58	956	14
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	144	7	12	14	12	22	18	743	1	61	1009	15
Added Vol:	6	2	30	2	1	0	0	98	5	22	52	0
Approved Pr:	-127	0	0	0	0	0	0	38	0	0	260	0
Initial Fut:	23	9	42	16	13	22	18	879	6	83	1321	15
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:	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 Volume:	23	9	42	16	13	22	18	879	6	83	1321	15
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	23	9	42	16	13	22	18	879	6	83	1321	15
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:	23	9	42	16	13	22	18	879	6	83	1321	15
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:	0.31	0.13	0.56	0.31	0.25	0.44	0.04	1.95	0.01	0.12	1.86	0.02
Final Sat.:	522	217	961	529	425	746	68	3310	23	199	3165	35
Capacity Analysis Module:												
Vol/Sat:	0.01	0.04	0.04	0.01	0.03	0.03	0.01	0.27	0.27	0.05	0.42	0.42
Crit Moves:		****		****			****				****	

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Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 PCH & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.672
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	34	Level Of Service:	B

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			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	2 0	1 0	1	1 0	1	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	26	65	31	331	170	179	51	574	95	68	927	113
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	27	69	33	349	179	189	54	606	100	72	979	119
Added Vol:	19	6	3	5	6	12	15	50	7	1	103	0
Approved Pr:	8	8	0	0	8	4	4	26	8	0	248	0
Initial Fut:	54	83	36	354	193	205	73	682	115	73	1330	119
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:	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 Volume:	54	83	36	354	193	205	73	682	115	73	1330	119
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	54	83	36	354	193	205	73	682	115	73	1330	119
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:	54	83	36	354	193	205	73	682	115	73	1330	119
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	1.40	0.60	2.00	1.00	1.00	1.00	1.71	0.29	1.00	1.84	0.16
Final Sat.:	1700	2374	1026	3400	1700	1700	1700	2908	492	1700	3120	280
Capacity Analysis Module:												
Vol/Sat:	0.03	0.03	0.03	0.10	0.11	0.12	0.04	0.23	0.23	0.04	0.43	0.43
Crit Moves:	****					****	****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH & Del Prado

Cycle (sec):	100	Critical Vol./Cap.(X):	0.525
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

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	0 0	1! 0	0	1 0	1 1	0	1 0	1 1	0
Volume Module:												
Base Vol:	2	0	285	25	0	1	7	854	0	373	1120	2
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	2	0	301	26	0	1	7	902	0	394	1182	2
Added Vol:	0	0	40	0	0	0	0	51	0	43	110	0
Approved Pr:	0	0	7	0	0	0	0	26	25	-218	248	0
Initial Fut:	2	0	348	26	0	1	7	979	25	219	1540	2
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:	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 Volume:	2	0	348	26	0	1	7	979	25	219	1540	2
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	2	0	348	26	0	1	7	979	25	219	1540	2
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:	2	0	348	26	0	1	7	979	25	219	1540	2
OvlAdjVol:			0									
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	0.00	2.00	0.96	0.00	0.04	1.00	1.95	0.05	1.00	1.99	0.01
Final Sat.:	1700	0	3400	1635	0	65	1700	3315	85	1700	3395	5
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.10	0.02	0.00	0.02	0.00	0.30	0.30	0.13	0.45	0.45
OvlAdjV/S:			0.00									
Crit Moves:	****			****			****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH & Crystal Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.599
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	90	Level Of Service:	A

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:	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	1	0	1	0	2 0 1
Volume Module:												
Base Vol:	4	1	6	105	2	20	16	1060	7	9	1332	62
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	4	1	6	111	2	21	17	1119	7	10	1406	65
Added Vol:	0	0	0	0	0	0	0	91	0	0	152	0
Approved Pr:	1	0	0	0	0	2	2	28	1	0	25	0
Initial Fut:	5	1	6	111	2	23	19	1238	8	10	1583	65
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:	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 Volume:	5	1	6	111	2	23	19	1238	8	10	1583	65
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	5	1	6	111	2	23	19	1238	8	10	1583	65
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:	5	1	6	111	2	23	19	1238	8	10	1583	65
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:	0.41	0.08	0.51	0.98	0.02	1.00	1.00	1.99	0.01	1.00	2.00	1.00
Final Sat.:	704	142	854	1668	32	1700	1700	3377	23	1700	3400	1700
Capacity Analysis Module:												
Vol/Sat:	0.00	0.01	0.01	0.07	0.07	0.01	0.01	0.37	0.37	0.01	0.47	0.04
Crit Moves:		****		****			****				****	

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	3	251	2	11	0	101	0	22	6	23	8	4
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	3	251	2	11	0	101	0	22	6	23	8	4

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	256	112	28	35
Volume Left (vph)	3	11	0	23
Volume Right (vph)	2	101	6	4
Hadj (s)	0.10	-0.49	-0.09	0.10
Departure Headway (s)	4.3	3.8	4.6	4.8
Degree Utilization, x	0.30	0.12	0.04	0.05
Capacity (veh/h)	829	910	711	682
Control Delay (s)	9.1	7.3	7.8	8.1
Approach Delay (s)	9.1	7.3	7.8	8.1
Approach LOS	A	A	A	A

Intersection Summary			
Delay	8.5		
HCM Level of Service	A		
Intersection Capacity Utilization	31.2%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	36	254	6	29	97	56	4	36	10	79	19	11
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	36	254	6	29	97	56	4	36	10	79	19	11

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	296	182	50	109
Volume Left (vph)	36	29	4	79
Volume Right (vph)	6	56	10	11
Hadj (s)	0.10	-0.08	-0.07	0.12
Departure Headway (s)	4.7	4.6	5.1	5.2
Degree Utilization, x	0.38	0.23	0.07	0.16
Capacity (veh/h)	738	740	626	624
Control Delay (s)	10.5	9.0	8.5	9.2
Approach Delay (s)	10.5	9.0	8.5	9.2
Approach LOS	B	A	A	A

Intersection Summary			
Delay	9.7		
HCM Level of Service	A		
Intersection Capacity Utilization	39.1%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	9	277	2	22	159	11	7	24	12	47	14	8
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	9	277	2	22	159	11	7	24	12	47	14	8

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	288	192	43	69
Volume Left (vph)	9	22	7	47
Volume Right (vph)	2	11	12	8
Hadj (s)	0.10	0.08	-0.10	0.10
Departure Headway (s)	4.5	4.6	5.0	5.2
Degree Utilization, x	0.36	0.25	0.06	0.10
Capacity (veh/h)	773	747	642	626
Control Delay (s)	10.1	9.1	8.3	8.8
Approach Delay (s)	10.1	9.1	8.3	8.8
Approach LOS	B	A	A	A

Intersection Summary			
Delay	9.5		
HCM Level of Service	A		
Intersection Capacity Utilization	37.0%	ICU Level of Service	A
Analysis Period (min)	15		

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #12 Del Prado & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.378
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	19	Level Of Service:	A

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			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	1 0	0 1	0	1 0	1 0	1
Volume Module:												
Base Vol:	50	181	10	10	272	60	17	191	32	23	309	38
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	53	191	11	11	287	63	18	202	34	24	326	40
Added Vol:	4	20	0	7	9	4	5	33	6	0	39	4
Approved Pr:	3	15	0	0	15	1	1	7	3	0	-218	0
Initial Fut:	60	226	11	18	311	68	24	242	43	24	147	44
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:	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 Volume:	60	226	11	18	311	68	24	242	43	24	147	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	60	226	11	18	311	68	24	242	43	24	147	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:	60	226	11	18	311	68	24	242	43	24	147	44
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	1.91	0.09	1.00	1.64	0.36	1.00	0.85	0.15	1.00	1.00	1.00
Final Sat.:	1700	3248	152	1700	2788	612	1700	1444	256	1700	1700	1700
Capacity Analysis Module:												
Vol/Sat:	0.04	0.07	0.07	0.01	0.11	0.11	0.01	0.17	0.17	0.01	0.09	0.03
Crit Moves:	****				****			****			****	

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑			↑↑		↱
Volume (veh/h)	761	0	0	1365	0	5
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	761	0	0	1365	0	5
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)	358			234		
pX, platoon unblocked			0.92		0.90	0.92
vC, conflicting volume			761		1444	380
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			574		880	161
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	99
cM capacity (veh/h)			919		257	789

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	380	380	682	682	5
Volume Left	0	0	0	0	0
Volume Right	0	0	0	0	5
cSH	1700	1700	1700	1700	789
Volume to Capacity	0.22	0.22	0.40	0.40	0.01
Queue Length 95th (ft)	0	0	0	0	0
Control Delay (s)	0.0	0.0	0.0	0.0	9.6
Lane LOS					A
Approach Delay (s)	0.0		0.0		9.6
Approach LOS					A

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	41.1%	ICU Level of Service	A
Analysis Period (min)	15		

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 PCH & Blue Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.518
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	24	Level Of Service:	A

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:	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 0	1	1 0	1 0	1	1 0	2 1	0	1 0	1 1	0
Volume Module:												
Base Vol:	61	25	52	35	8	4	14	1146	10	72	1024	52
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	64	26	55	37	8	4	15	1210	11	76	1081	55
Added Vol:	4	0	0	4	0	0	0	90	4	0	121	5
Approved Pr:	13	4	15	0	3	16	10	79	0	12	93	0
Initial Fut:	81	30	70	41	11	20	25	1379	15	88	1295	60
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:	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 Volume:	81	30	70	41	11	20	25	1379	15	88	1295	60
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	81	30	70	41	11	20	25	1379	15	88	1295	60
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:	81	30	70	41	11	20	25	1379	15	88	1295	60
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	1.00	1.00	1.00	2.97	0.03	1.00	1.91	0.09
Final Sat.:	1700	1700	1700	1700	1700	1700	1700	5047	53	1700	3250	150
Capacity Analysis Module:												
Vol/Sat:	0.05	0.02	0.04	0.02	0.01	0.01	0.01	0.27	0.27	0.05	0.40	0.40
Crit Moves:	****				****		****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 PCH & Ruby Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.534
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

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:	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 0	1! 0	0	1 0	1	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	5	2	6	16	13	22	9	914	2	7	1054	5
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	5	2	6	17	14	23	10	965	2	7	1113	5
Added Vol:	0	0	11	0	0	0	0	64	0	13	100	0
Approved Pr:	91	0	0	0	0	0	0	67	0	0	107	0
Initial Fut:	96	2	17	17	14	23	10	1096	2	20	1320	5
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:	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 Volume:	96	2	17	17	14	23	10	1096	2	20	1320	5
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	96	2	17	17	14	23	10	1096	2	20	1320	5
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:	96	2	17	17	14	23	10	1096	2	20	1320	5
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:	0.83	0.02	0.15	0.31	0.25	0.44	1.00	1.99	0.01	1.00	1.99	0.01
Final Sat.:	1414	31	255	533	433	733	1700	3393	7	1700	3386	14
Capacity Analysis Module:												
Vol/Sat:	0.06	0.07	0.07	0.01	0.03	0.03	0.01	0.32	0.32	0.01	0.39	0.39
Crit Moves:	****				****		****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 PCH & Amber Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.584
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	28	Level Of Service:	A

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:	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 0	1! 0	0	1 0	1	0	1 0	1	0
Volume Module:												
Base Vol:	134	9	25	39	17	11	45	856	20	64	921	35
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	141	10	26	41	18	12	48	904	21	68	972	37
Added Vol:	29	5	26	3	4	4	4	84	26	34	114	7
Approved Pr:	-87	0	0	0	0	0	0	67	0	0	194	0
Initial Fut:	83	15	52	44	22	16	52	1055	47	102	1280	44
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:	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 Volume:	83	15	52	44	22	16	52	1055	47	102	1280	44
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	83	15	52	44	22	16	52	1055	47	102	1280	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:	83	15	52	44	22	16	52	1055	47	102	1280	44
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:	0.55	0.10	0.35	0.54	0.27	0.19	1.00	1.91	0.09	1.00	1.93	0.07
Final Sat.:	944	164	592	919	456	325	1700	3255	145	1700	3287	113
Capacity Analysis Module:												
Vol/Sat:	0.05	0.09	0.09	0.03	0.05	0.05	0.03	0.32	0.32	0.06	0.39	0.39
Crit Moves:		****		****			****				****	

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Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 PCH & Violet Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.641
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	32	Level Of Service:	B

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 0	1! 0	0	0 1	0 1	0	0 1	0 1	0
Volume Module:												
Base Vol:	160	62	4	35	26	43	18	967	2	59	866	50
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	169	65	4	37	27	45	19	1021	2	62	914	53
Added Vol:	14	3	50	1	3	0	0	129	9	60	138	2
Approved Pr:	-133	0	0	0	0	0	0	67	0	-5	327	0
Initial Fut:	50	68	54	38	30	45	19	1217	11	117	1379	55
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:	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 Volume:	50	68	54	38	30	45	19	1217	11	117	1379	55
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	50	68	54	38	30	45	19	1217	11	117	1379	55
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:	50	68	54	38	30	45	19	1217	11	117	1379	55
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:	0.29	0.40	0.31	0.33	0.27	0.40	0.03	1.95	0.02	0.15	1.78	0.07
Final Sat.:	492	674	534	567	455	678	52	3318	30	257	3023	120
Capacity Analysis Module:												
Vol/Sat:	0.03	0.10	0.10	0.02	0.07	0.07	0.01	0.37	0.37	0.07	0.46	0.46
Crit Moves:		****		****			****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 PCH & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.738
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	42	Level Of Service:	C

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			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	2 0	1	0 1	1 0	1	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	137	336	20	317	157	154	113	841	77	167	733	153
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	145	355	21	335	166	163	119	888	81	176	774	162
Added Vol:	18	11	2	29	22	26	44	136	16	5	119	2
Approved Pr:	-3	2	0	-40	4	-2	-13	25	5	-30	276	-10
Initial Fut:	160	368	23	324	192	187	150	1049	102	151	1169	154
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:	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 Volume:	160	368	23	324	192	187	150	1049	102	151	1169	154
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	160	368	23	324	192	187	150	1049	102	151	1169	154
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:	160	368	23	324	192	187	150	1049	102	151	1169	154
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	1.88	0.12	2.00	1.00	1.00	1.00	1.82	0.18	1.00	1.77	0.23
Final Sat.:	1700	3199	201	3400	1700	1700	1700	3098	302	1700	3005	395
Capacity Analysis Module:												
Vol/Sat:	0.09	0.11	0.11	0.10	0.11	0.11	0.09	0.34	0.34	0.09	0.39	0.39
Crit Moves:		****		****			****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH & Del Prado

Cycle (sec):	100	Critical Vol./Cap.(X):	0.651
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	33	Level Of Service:	B

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	0 0	1! 0	0	1 0	1 1	0	1 0	1 1	0
Volume Module:												
Base Vol:	10	0	396	17	0	2	28	1189	0	355	1065	47
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	11	0	418	18	0	2	30	1255	0	375	1124	50
Added Vol:	0	0	81	0	0	0	0	169	1	67	120	0
Approved Pr:	0	0	10	0	0	0	0	45	25	-241	306	0
Initial Fut:	11	0	509	18	0	2	30	1469	26	201	1550	50
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:	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 Volume:	11	0	509	18	0	2	30	1469	26	201	1550	50
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	11	0	509	18	0	2	30	1469	26	201	1550	50
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:	11	0	509	18	0	2	30	1469	26	201	1550	50
OvlAdjVol:			107									
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	0.00	2.00	0.89	0.00	0.11	1.00	1.97	0.03	1.00	1.94	0.06
Final Sat.:	1700	0	3400	1521	0	179	1700	3341	59	1700	3295	105
Capacity Analysis Module:												
Vol/Sat:	0.01	0.00	0.15	0.01	0.00	0.01	0.02	0.44	0.44	0.12	0.47	0.47
OvlAdjV/S:			0.03									
Crit Moves:			****	****				****		****		

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH & Crystal Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.687
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	90	Level Of Service:	B

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:	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	1 0	1 1	0	1 0	2 0	1
Volume Module:												
Base Vol:	11	0	10	96	2	27	33	1488	7	18	1289	83
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	12	0	11	101	2	29	35	1571	7	19	1361	88
Added Vol:	0	0	0	0	0	0	0	250	0	0	187	0
Approved Pr:	2	0	0	0	0	4	4	45	2	0	55	0
Initial Fut:	14	0	11	101	2	33	39	1866	9	19	1603	88
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:	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 Volume:	14	0	11	101	2	33	39	1866	9	19	1603	88
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	14	0	11	101	2	33	39	1866	9	19	1603	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:	14	0	11	101	2	33	39	1866	9	19	1603	88
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:	0.56	0.00	0.44	0.98	0.02	1.00	1.00	1.99	0.01	1.00	2.00	1.00
Final Sat.:	957	0	743	1665	35	1700	1700	3383	17	1700	3400	1700
Capacity Analysis Module:												
Vol/Sat:	0.01	0.00	0.01	0.06	0.06	0.02	0.02	0.55	0.55	0.01	0.47	0.05
Crit Moves:			****	****				****		****		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	3	356	5	16	0	94	0	19	7	37	19	5
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	3	356	5	16	0	94	0	19	7	37	19	5

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	364	110	26	61
Volume Left (vph)	3	16	0	37
Volume Right (vph)	5	94	7	5
Hadj (s)	0.09	-0.45	-0.13	0.11
Departure Headway (s)	4.3	4.1	4.9	5.1
Degree Utilization, x	0.44	0.12	0.04	0.09
Capacity (veh/h)	815	840	657	639
Control Delay (s)	10.7	7.6	8.1	8.6
Approach Delay (s)	10.7	7.6	8.1	8.6
Approach LOS	B	A	A	A

Intersection Summary			
Delay	9.7		
HCM Level of Service	A		
Intersection Capacity Utilization	36.8%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	28	348	9	27	91	40	5	41	12	86	45	13
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	28	348	9	27	91	40	5	41	12	86	45	13

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	385	158	58	144
Volume Left (vph)	28	27	5	86
Volume Right (vph)	9	40	12	13
Hadj (s)	0.10	-0.04	-0.07	0.10
Departure Headway (s)	4.8	4.9	5.4	5.4
Degree Utilization, x	0.51	0.22	0.09	0.22
Capacity (veh/h)	723	683	577	600
Control Delay (s)	12.6	9.3	8.9	9.9
Approach Delay (s)	12.6	9.3	8.9	9.9
Approach LOS	B	A	A	A

Intersection Summary			
Delay	11.1		
HCM Level of Service	B		
Intersection Capacity Utilization	44.3%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	14	391	9	28	132	13	9	22	5	99	26	16
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	14	391	9	28	132	13	9	22	5	99	26	16

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	414	173	36	141
Volume Left (vph)	14	28	9	99
Volume Right (vph)	9	13	5	16
Hadj (s)	0.09	0.07	0.00	0.11
Departure Headway (s)	4.7	5.0	5.6	5.5
Degree Utilization, x	0.55	0.24	0.06	0.22
Capacity (veh/h)	733	679	553	591
Control Delay (s)	13.3	9.6	8.9	10.0
Approach Delay (s)	13.3	9.6	8.9	10.0
Approach LOS	B	A	A	B

Intersection Summary			
Delay	11.6		
HCM Level of Service	B		
Intersection Capacity Utilization	44.4%	ICU Level of Service	A
Analysis Period (min)	15		

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2015
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #12 Del Prado & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.527
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

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			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	1 0	0 1	0	1 0	1 0	1
Volume Module:												
Base Vol:	117	369	7	63	253	51	38	280	26	56	244	51
Growth Adj:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Initial Bse:	124	390	7	67	267	54	40	296	27	59	258	54
Added Vol:	10	19	0	8	29	9	10	73	10	0	59	8
Approved Pr:	4	23	0	0	27	2	3	10	5	0	-241	0
Initial Fut:	138	432	7	75	323	65	53	379	42	59	76	62
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:	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 Volume:	138	432	7	75	323	65	53	379	42	59	76	62
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	138	432	7	75	323	65	53	379	42	59	76	62
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:	138	432	7	75	323	65	53	379	42	59	76	62
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	1.97	0.03	1.00	1.67	0.33	1.00	0.90	0.10	1.00	1.00	1.00
Final Sat.:	1700	3343	57	1700	2832	568	1700	1529	171	1700	1700	1700
Capacity Analysis Module:												
Vol/Sat:	0.08	0.13	0.13	0.04	0.11	0.11	0.03	0.25	0.25	0.03	0.04	0.04
Crit Moves:	****				****			****		****		

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑			↑↑		↱
Volume (veh/h)	1058	0	0	1409	0	5
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	1058	0	0	1409	0	5
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)	358			234		
pX, platoon unblocked			0.84		0.92	0.84
vC, conflicting volume			1058		1762	529
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			681		860	49
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	99
cM capacity (veh/h)			760		271	845

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	529	529	704	704	5
Volume Left	0	0	0	0	0
Volume Right	0	0	0	0	5
cSH	1700	1700	1700	1700	845
Volume to Capacity	0.31	0.31	0.41	0.41	0.01
Queue Length 95th (ft)	0	0	0	0	0
Control Delay (s)	0.0	0.0	0.0	0.0	9.3
Lane LOS					A
Approach Delay (s)	0.0		0.0		9.3
Approach LOS					A

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	42.3%	ICU Level of Service	A
Analysis Period (min)	15		

YEAR 2035

TWO-WAY OPERATIONS

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 PCH & Blue Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.505
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	24	Level Of Service:	A

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:	Include			Include			Include				Include			
Min. Green:	0	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	4.0	4.0
Lanes:	1	0 1	0 1	1	0 1	0 1	1	0 2	1 0		1	0 1	1 0	
Volume Module:														
Base Vol:	48	9	18	40	5	9	7	816	11	34	1071	41		
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16		
Initial Bse:	56	10	21	46	6	10	8	946	13	39	1241	48		
Added Vol:	2	0	0	3	0	0	0	75	1	0	44	1		
Approved Pr:	4	1	5	0	3	5	7	49	0	10	41	0		
Initial Fut:	62	11	26	49	9	15	15	1070	14	49	1326	49		
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:	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 Volume:	62	11	26	49	9	15	15	1070	14	49	1326	49		
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced Vol:	62	11	26	49	9	15	15	1070	14	49	1326	49		
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:	62	11	26	49	9	15	15	1070	14	49	1326	49		
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	1.00	1.00	1.00	2.96	0.04	1.00	1.93	0.07		
Final Sat.:	1700	1700	1700	1700	1700	1700	1700	5035	65	1700	3280	120		
Capacity Analysis Module:														
Vol/Sat:	0.04	0.01	0.02	0.03	0.01	0.01	0.01	0.21	0.21	0.03	0.40	0.40		
Crit Moves:	****			****			****				****			

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 PCH & Ruby Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.521
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	25	Level Of Service:	A

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:	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	1	0	1 1 0	1	0	1 1 0
Volume Module:												
Base Vol:	5	5	10	7	6	10	8	642	1	10	1027	3
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	6	6	12	8	7	12	9	744	1	12	1190	3
Added Vol:	1	0	6	0	0	0	0	68	0	3	32	0
Approved Pr:	106	0	0	0	0	0	0	38	0	-1	79	0
Initial Fut:	113	6	18	8	7	12	9	850	1	14	1301	3
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:	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 Volume:	113	6	18	8	7	12	9	850	1	14	1301	3
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	113	6	18	8	7	12	9	850	1	14	1301	3
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:	113	6	18	8	7	12	9	850	1	14	1301	3
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:	0.83	0.04	0.13	0.30	0.26	0.44	1.00	1.99	0.01	1.00	1.99	0.01
Final Sat.:	1408	72	220	517	443	739	1700	3395	5	1700	3391	9
Capacity Analysis Module:												
Vol/Sat:	0.07	0.08	0.08	0.00	0.02	0.02	0.01	0.25	0.25	0.01	0.38	0.38
Crit Moves:	****				****		****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 PCH & Amber Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.579
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	28	Level Of Service:	A

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:	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	1	0	1 1	0	1	0 1 0
Volume Module:												
Base Vol:	117	5	20	35	20	25	17	659	17	81	1019	10
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	136	6	23	41	23	29	20	764	20	94	1181	12
Added Vol:	11	2	11	7	2	2	3	84	15	17	36	1
Approved Pr:	-55	0	0	0	0	0	0	38	0	0	133	0
Initial Fut:	92	8	34	48	25	31	23	886	35	111	1350	13
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:	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 Volume:	92	8	34	48	25	31	23	886	35	111	1350	13
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	92	8	34	48	25	31	23	886	35	111	1350	13
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:	92	8	34	48	25	31	23	886	35	111	1350	13
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:	0.68	0.06	0.26	0.46	0.24	0.30	1.00	1.92	0.08	1.00	1.98	0.02
Final Sat.:	1166	99	435	780	413	508	1700	3272	128	1700	3369	31
Capacity Analysis Module:												
Vol/Sat:	0.05	0.08	0.08	0.03	0.06	0.06	0.01	0.27	0.27	0.07	0.40	0.40
Crit Moves:	****				****		****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 PCH & Violet Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.573
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

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	1 0	0 1	0	1 0
Volume Module:												
Base Vol:	136	7	11	13	11	21	17	704	1	58	956	14
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	158	8	13	15	13	24	20	816	1	67	1108	16
Added Vol:	6	2	30	2	1	0	0	98	5	22	52	0
Approved Pr:	-127	0	0	0	0	0	0	38	0	0	260	0
Initial Fut:	37	10	43	17	14	24	20	952	6	89	1420	16
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:	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 Volume:	37	10	43	17	14	24	20	952	6	89	1420	16
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	37	10	43	17	14	24	20	952	6	89	1420	16
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:	37	10	43	17	14	24	20	952	6	89	1420	16
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:	0.41	0.11	0.48	0.31	0.25	0.44	0.04	1.95	0.01	0.12	1.86	0.02
Final Sat.:	695	192	812	526	424	750	69	3310	21	199	3165	36
Capacity Analysis Module:												
Vol/Sat:	0.02	0.05	0.05	0.01	0.03	0.03	0.01	0.29	0.29	0.05	0.45	0.45
Crit Moves:		****		****			****				****	

Dana Point Town Center - AM Buildout
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Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 PCH & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.719
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	39	Level Of Service:	C

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			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	2 0	1	0 1	1 0	1	0 1	1 0	1	1 0
Volume Module:												
Base Vol:	26	65	31	331	170	179	51	574	95	68	927	113
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	30	75	36	384	197	207	59	665	110	79	1074	131
Added Vol:	19	6	3	5	6	12	15	50	7	1	103	0
Approved Pr:	8	8	0	0	8	4	4	26	8	0	248	0
Initial Fut:	57	89	39	389	211	223	78	741	125	80	1425	131
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:	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 Volume:	57	89	39	389	211	223	78	741	125	80	1425	131
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	57	89	39	389	211	223	78	741	125	80	1425	131
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:	57	89	39	389	211	223	78	741	125	80	1425	131
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	1.39	0.61	2.00	1.00	1.00	1.00	1.71	0.29	1.00	1.83	0.17
Final Sat.:	1700	2368	1032	3400	1700	1700	1700	2909	491	1700	3114	286
Capacity Analysis Module:												
Vol/Sat:	0.03	0.04	0.04	0.11	0.12	0.13	0.05	0.25	0.25	0.05	0.46	0.46
Crit Moves:	****					****	****				****	

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH & Del Prado

Cycle (sec):	100	Critical Vol./Cap.(X):	0.562
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

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	0	0	1! 0	0	1 0	1 1 0	1	0	1 1 0
Volume Module:												
Base Vol:	2	0	285	25	0	1	7	854	0	373	1120	2
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	2	0	330	29	0	1	8	990	0	432	1298	2
Added Vol:	0	0	40	0	0	0	0	51	0	43	110	0
Approved Pr:	0	0	7	0	0	0	0	26	25	-218	248	0
Initial Fut:	2	0	377	29	0	1	8	1067	25	257	1656	2
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:	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 Volume:	2	0	377	29	0	1	8	1067	25	257	1656	2
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	2	0	377	29	0	1	8	1067	25	257	1656	2
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:	2	0	377	29	0	1	8	1067	25	257	1656	2
OvlAdjVol:			0									
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	0.00	2.00	0.96	0.01	0.03	1.00	1.95	0.05	1.00	1.99	0.01
Final Sat.:	1700	0	3400	1635	0	65	1700	3322	78	1700	3395	5
Capacity Analysis Module:												
Vol/Sat:	0.00	0.00	0.11	0.02	0.00	0.02	0.00	0.32	0.32	0.15	0.49	0.49
OvlAdjV/S:			0.00									
Crit Moves:	****			****			****				****	

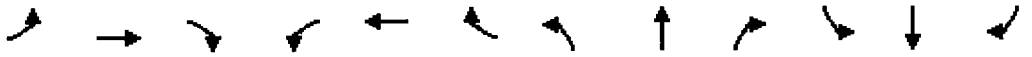
Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH & Crystal Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.648
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	90	Level Of Service:	B

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:	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	1	1	0	1	0	2	0	1
Volume Module:												
Base Vol:	4	1	6	105	2	20	16	1060	7	9	1332	62
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	5	1	7	122	2	23	19	1228	8	10	1543	72
Added Vol:	0	0	0	0	0	0	0	91	0	0	152	0
Approved Pr:	1	0	0	0	0	2	2	28	1	0	25	0
Initial Fut:	6	1	7	122	2	25	21	1347	9	10	1720	72
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:	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 Volume:	6	1	7	122	2	25	21	1347	9	10	1720	72
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	6	1	7	122	2	25	21	1347	9	10	1720	72
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:	6	1	7	122	2	25	21	1347	9	10	1720	72
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:	0.41	0.08	0.51	0.98	0.02	1.00	1.00	1.99	0.01	1.00	2.00	1.00
Final Sat.:	697	143	860	1668	32	1700	1700	3377	23	1700	3400	1700
Capacity Analysis Module:												
Vol/Sat:	0.00	0.01	0.01	0.07	0.07	0.01	0.01	0.40	0.40	0.01	0.51	0.04
Crit Moves:		****		****			****				****	



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	3	273	2	11	0	110	0	23	6	25	9	4
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	3	273	2	11	0	110	0	23	6	25	9	4

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	278	121	29	38
Volume Left (vph)	3	11	0	25
Volume Right (vph)	2	110	6	4
Hadj (s)	0.10	-0.49	-0.09	0.10
Departure Headway (s)	4.3	3.9	4.7	4.9
Degree Utilization, x	0.33	0.13	0.04	0.05
Capacity (veh/h)	824	901	696	669
Control Delay (s)	9.4	7.4	7.9	8.2
Approach Delay (s)	9.4	7.4	7.9	8.2
Approach LOS	A	A	A	A

Intersection Summary				
Delay		8.7		
HCM Level of Service		A		
Intersection Capacity Utilization		32.0%	ICU Level of Service	A
Analysis Period (min)		15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	38	277	7	31	106	68	4	40	11	85	21	12
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	38	277	7	31	106	68	4	40	11	85	21	12

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	322	205	55	118
Volume Left (vph)	38	31	4	85
Volume Right (vph)	7	68	11	12
Hadj (s)	0.10	-0.10	-0.07	0.12
Departure Headway (s)	4.7	4.7	5.3	5.4
Degree Utilization, x	0.42	0.27	0.08	0.18
Capacity (veh/h)	725	727	592	605
Control Delay (s)	11.2	9.4	8.8	9.5
Approach Delay (s)	11.2	9.4	8.8	9.5
Approach LOS	B	A	A	A

Intersection Summary			
Delay	10.2		
HCM Level of Service	B		
Intersection Capacity Utilization	41.4%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	10	301	2	24	182	22	7	26	13	51	14	9
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	10	301	2	24	182	22	7	26	13	51	14	9

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	313	228	46	74
Volume Left (vph)	10	24	7	51
Volume Right (vph)	2	22	13	9
Hadj (s)	0.10	0.05	-0.11	0.10
Departure Headway (s)	4.6	4.6	5.2	5.3
Degree Utilization, x	0.40	0.29	0.07	0.11
Capacity (veh/h)	760	741	616	603
Control Delay (s)	10.6	9.6	8.6	9.0
Approach Delay (s)	10.6	9.6	8.6	9.0
Approach LOS	B	A	A	A

Intersection Summary				
Delay		9.9		
HCM Level of Service		A		
Intersection Capacity Utilization	39.9%	ICU Level of Service	A	
Analysis Period (min)	15			

Dana Point Town Center - AM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #12 Del Prado & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.406
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	20	Level Of Service:	A

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			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	1 0	0 1	0	1 0	1 0	1
Volume Module:												
Base Vol:	50	181	10	10	272	60	17	191	32	23	309	38
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	58	210	12	12	315	70	20	221	37	27	358	44
Added Vol:	4	20	0	7	9	4	5	33	6	0	39	4
Approved Pr:	3	15	0	0	15	1	1	7	3	0	-218	0
Initial Fut:	65	245	12	19	339	75	26	261	46	27	179	48
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:	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 Volume:	65	245	12	19	339	75	26	261	46	27	179	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	65	245	12	19	339	75	26	261	46	27	179	48
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:	65	245	12	19	339	75	26	261	46	27	179	48
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	1.91	0.09	1.00	1.64	0.36	1.00	0.85	0.15	1.00	1.00	1.00
Final Sat.:	1700	3246	154	1700	2788	612	1700	1445	255	1700	1700	1700
Capacity Analysis Module:												
Vol/Sat:	0.04	0.08	0.08	0.01	0.12	0.12	0.02	0.18	0.18	0.02	0.11	0.03
Crit Moves:	****				****			****			****	

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑			↑↑		↱
Volume (veh/h)	828	0	0	1494	0	6
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	828	0	0	1494	0	6
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)	358			234		
pX, platoon unblocked			0.91		0.88	0.91
vC, conflicting volume			828		1575	414
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			621		928	167
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	99
cM capacity (veh/h)			873		234	774

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	414	414	747	747	6
Volume Left	0	0	0	0	0
Volume Right	0	0	0	0	6
cSH	1700	1700	1700	1700	774
Volume to Capacity	0.24	0.24	0.44	0.44	0.01
Queue Length 95th (ft)	0	0	0	0	1
Control Delay (s)	0.0	0.0	0.0	0.0	9.7
Lane LOS					A
Approach Delay (s)	0.0		0.0		9.7
Approach LOS					A

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	44.6%	ICU Level of Service	A
Analysis Period (min)	15		

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 PCH & Blue Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.567
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

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:	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 0	1	1 0	1 0	1	1 0	2	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	61	25	52	35	8	4	14	1146	10	72	1024	52
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	71	29	60	41	9	5	16	1328	12	83	1187	60
Added Vol:	4	0	0	4	0	0	0	90	4	0	121	5
Approved Pr:	13	4	15	0	3	16	10	79	0	12	93	0
Initial Fut:	88	33	75	45	12	21	26	1497	16	95	1401	65
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:	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 Volume:	88	33	75	45	12	21	26	1497	16	95	1401	65
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	88	33	75	45	12	21	26	1497	16	95	1401	65
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:	88	33	75	45	12	21	26	1497	16	95	1401	65
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	1.00	1.00	1.00	2.97	0.03	1.00	1.91	0.09
Final Sat.:	1700	1700	1700	1700	1700	1700	1700	5047	53	1700	3249	151
Capacity Analysis Module:												
Vol/Sat:	0.05	0.02	0.04	0.03	0.01	0.01	0.02	0.30	0.30	0.06	0.43	0.43
Crit Moves:			****	****			****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 PCH & Ruby Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.573
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

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:	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	1	0	1 1	0	1	0 1 0
Volume Module:												
Base Vol:	5	2	6	16	13	22	9	914	2	7	1054	5
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	6	2	7	19	15	25	10	1059	2	8	1221	6
Added Vol:	0	0	11	0	0	0	0	64	0	13	100	0
Approved Pr:	96	0	0	0	0	0	0	67	0	0	109	0
Initial Fut:	102	2	18	19	15	25	10	1190	2	21	1430	6
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:	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 Volume:	102	2	18	19	15	25	10	1190	2	21	1430	6
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	102	2	18	19	15	25	10	1190	2	21	1430	6
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:	102	2	18	19	15	25	10	1190	2	21	1430	6
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:	0.83	0.02	0.15	0.31	0.25	0.44	1.00	1.99	0.01	1.00	1.99	0.01
Final Sat.:	1418	32	250	533	433	733	1700	3393	7	1700	3386	14
Capacity Analysis Module:												
Vol/Sat:	0.06	0.07	0.07	0.01	0.03	0.03	0.01	0.35	0.35	0.01	0.42	0.42
Crit Moves:	****				****		****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 PCH & Amber Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.630
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	31	Level Of Service:	B

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:	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	1	0 1	1 0	1	0 1	1 0
Volume Module:												
Base Vol:	134	9	25	39	17	11	45	856	20	64	921	35
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	155	10	29	45	20	13	52	992	23	74	1067	41
Added Vol:	29	5	26	3	4	4	4	84	26	34	114	7
Approved Pr:	-85	0	0	0	0	0	0	67	0	0	194	0
Initial Fut:	99	15	55	48	24	17	56	1143	49	108	1375	48
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:	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 Volume:	99	15	55	48	24	17	56	1143	49	108	1375	48
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	99	15	55	48	24	17	56	1143	49	108	1375	48
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:	99	15	55	48	24	17	56	1143	49	108	1375	48
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:	0.59	0.09	0.32	0.54	0.27	0.19	1.00	1.92	0.08	1.00	1.93	0.07
Final Sat.:	995	155	551	924	455	321	1700	3260	140	1700	3286	114
Capacity Analysis Module:												
Vol/Sat:	0.06	0.10	0.10	0.03	0.05	0.05	0.03	0.35	0.35	0.06	0.42	0.42
Crit Moves:		****		****			****				****	

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Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #4 PCH & Violet Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.688
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	36	Level Of Service:	B

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 1	0	0	1 0
Volume Module:												
Base Vol:	160	62	4	35	26	43	18	967	2	59	866	50
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	185	72	5	41	30	50	21	1121	2	68	1003	58
Added Vol:	14	3	50	1	3	0	0	129	9	60	138	2
Approved Pr:	-133	0	0	0	0	0	0	67	0	-5	327	0
Initial Fut:	66	75	55	42	33	50	21	1317	11	123	1468	60
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:	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 Volume:	66	75	55	42	33	50	21	1317	11	123	1468	60
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	66	75	55	42	33	50	21	1317	11	123	1468	60
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:	66	75	55	42	33	50	21	1317	11	123	1468	60
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:	0.34	0.38	0.28	0.33	0.27	0.40	0.03	1.95	0.02	0.15	1.78	0.07
Final Sat.:	576	650	474	567	452	680	53	3319	29	254	3023	123
Capacity Analysis Module:												
Vol/Sat:	0.04	0.12	0.12	0.02	0.07	0.07	0.01	0.40	0.40	0.07	0.49	0.49
Crit Moves:		****		****			****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #5 PCH & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.742
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	42	Level Of Service:	C

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:	1 0	1	1 0	2 0	1	0 1	1 0	1	1 0	1 0	2	0 1
Volume Module:												
Base Vol:	137	336	20	317	157	154	113	841	77	167	733	153
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	159	389	23	367	182	178	131	975	89	194	849	177
Added Vol:	18	11	2	29	22	26	44	136	16	5	119	2
Approved Pr:	-3	2	0	-40	4	-2	-13	25	5	-30	276	-10
Initial Fut:	174	402	25	356	208	202	162	1136	110	169	1244	169
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:	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 Volume:	174	402	25	356	208	202	162	1136	110	169	1244	169
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	174	402	25	356	208	202	162	1136	110	169	1244	169
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:	174	402	25	356	208	202	162	1136	110	169	1244	169
OvlAdjVol:						41						
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	1.88	0.12	2.00	1.00	1.00	1.00	1.82	0.18	1.00	2.00	1.00
Final Sat.:	1700	3200	200	3400	1700	1700	1700	3099	301	1700	3400	1700
Capacity Analysis Module:												
Vol/Sat:	0.10	0.13	0.13	0.10	0.12	0.12	0.10	0.37	0.37	0.10	0.37	0.10
OvlAdjV/S:						0.02						
Crit Moves:	****			****			****				****	

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #6 PCH & Del Prado

Cycle (sec):	100	Critical Vol./Cap.(X):	0.700
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	37	Level Of Service:	C

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	0 0	1! 0	0	1 0	1 1	0	1 0	1 1	0
Volume Module:												
Base Vol:	10	0	396	17	0	2	28	1189	0	355	1065	47
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	12	0	459	20	0	2	32	1378	0	411	1234	54
Added Vol:	0	0	81	0	0	0	0	169	1	67	120	0
Approved Pr:	0	0	10	0	0	0	0	45	25	-241	306	0
Initial Fut:	12	0	550	20	0	2	32	1592	26	237	1660	54
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:	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 Volume:	12	0	550	20	0	2	32	1592	26	237	1660	54
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	12	0	550	20	0	2	32	1592	26	237	1660	54
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	0	550	20	0	2	32	1592	26	237	1660	54
OvlAdjVol:			75									
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	0.00	2.00	0.89	0.00	0.11	1.00	1.97	0.03	1.00	1.94	0.06
Final Sat.:	1700	0	3400	1521	0	179	1700	3345	55	1700	3292	108
Capacity Analysis Module:												
Vol/Sat:	0.01	0.00	0.16	0.01	0.00	0.01	0.02	0.48	0.48	0.14	0.50	0.50
OvlAdjV/S:			0.02									
Crit Moves:			****	****				****		****		

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #7 PCH & Crystal Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.740
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	90	Level Of Service:	C

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:	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	1	1	0	1	0	2	0	1
Volume Module:												
Base Vol:	11	0	10	96	2	27	33	1488	7	18	1289	83
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	13	0	12	111	2	31	38	1724	8	21	1494	96
Added Vol:	0	0	0	0	0	0	0	250	0	0	187	0
Approved Pr:	2	0	0	0	0	4	4	45	2	0	55	0
Initial Fut:	15	0	12	111	2	35	42	2019	10	21	1736	96
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:	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 Volume:	15	0	12	111	2	35	42	2019	10	21	1736	96
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	15	0	12	111	2	35	42	2019	10	21	1736	96
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:	15	0	12	111	2	35	42	2019	10	21	1736	96
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:	0.55	0.01	0.44	0.98	0.02	1.00	1.00	1.99	0.01	1.00	2.00	1.00
Final Sat.:	952	0	748	1665	35	1700	1700	3383	17	1700	3400	1700
Capacity Analysis Module:												
Vol/Sat:	0.01	0.00	0.02	0.07	0.07	0.02	0.02	0.60	0.60	0.01	0.51	0.06
Crit Moves:			****	****				****		****		

Traffix 8.0.0715 (c) 2008 Dowling Assoc. Licensed to LLG Costa Mesa, CA

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	3	385	5	17	0	100	0	20	7	40	20	5
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	3	385	5	17	0	100	0	20	7	40	20	5

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	393	117	27	65
Volume Left (vph)	3	17	0	40
Volume Right (vph)	5	100	7	5
Hadj (s)	0.09	-0.45	-0.12	0.11
Departure Headway (s)	4.4	4.1	5.0	5.2
Degree Utilization, x	0.48	0.13	0.04	0.09
Capacity (veh/h)	810	829	640	625
Control Delay (s)	11.3	7.8	8.2	8.7
Approach Delay (s)	11.3	7.8	8.2	8.7
Approach LOS	B	A	A	A

Intersection Summary				
Delay		10.2		
HCM Level of Service		B		
Intersection Capacity Utilization		38.5%	ICU Level of Service	A
Analysis Period (min)		15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	29	377	10	29	98	53	5	46	13	92	49	14
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	29	377	10	29	98	53	5	46	13	92	49	14

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	416	180	64	155
Volume Left (vph)	29	29	5	92
Volume Right (vph)	10	53	13	14
Hadj (s)	0.10	-0.07	-0.07	0.10
Departure Headway (s)	4.9	5.0	5.6	5.6
Degree Utilization, x	0.57	0.25	0.10	0.24
Capacity (veh/h)	709	668	550	579
Control Delay (s)	14.0	9.7	9.3	10.4
Approach Delay (s)	14.0	9.7	9.3	10.4
Approach LOS	B	A	A	B

Intersection Summary			
Delay	12.0		
HCM Level of Service	B		
Intersection Capacity Utilization	46.8%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Volume (vph)	15	424	9	30	151	25	9	23	5	105	27	17
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	15	424	9	30	151	25	9	23	5	105	27	17

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	448	206	37	149
Volume Left (vph)	15	30	9	105
Volume Right (vph)	9	25	5	17
Hadj (s)	0.09	0.04	0.00	0.11
Departure Headway (s)	4.8	5.1	5.8	5.7
Degree Utilization, x	0.60	0.29	0.06	0.24
Capacity (veh/h)	720	668	523	569
Control Delay (s)	14.9	10.2	9.2	10.5
Approach Delay (s)	14.9	10.2	9.2	10.5
Approach LOS	B	B	A	B

Intersection Summary			
Delay	12.7		
HCM Level of Service	B		
Intersection Capacity Utilization	46.9%	ICU Level of Service	A
Analysis Period (min)	15		

Dana Point Town Center - PM Buildout
2-Way + Approved Projects - Year 2035
Alternative 1

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #12 Del Prado & Golden Lantern

Cycle (sec):	100	Critical Vol./Cap.(X):	0.566
Loss Time (sec):	5	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	27	Level Of Service:	A

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			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	1 0	0	1 0	1 0	1	0 1
Volume Module:												
Base Vol:	117	369	7	63	253	51	38	280	26	56	244	51
Growth Adj:	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
Initial Bse:	136	428	8	73	293	59	44	324	30	65	283	59
Added Vol:	10	19	0	8	29	9	10	73	10	0	59	8
Approved Pr:	4	23	0	0	27	2	3	10	5	0	-241	0
Initial Fut:	150	470	8	81	349	70	57	407	45	65	101	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:	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 Volume:	150	470	8	81	349	70	57	407	45	65	101	67
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	150	470	8	81	349	70	57	407	45	65	101	67
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:	150	470	8	81	349	70	57	407	45	65	101	67
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	1.97	0.03	1.00	1.67	0.33	1.00	0.90	0.10	1.00	1.00	1.00
Final Sat.:	1700	3342	58	1700	2832	568	1700	1530	170	1700	1700	1700
Capacity Analysis Module:												
Vol/Sat:	0.09	0.14	0.14	0.05	0.12	0.12	0.03	0.27	0.27	0.04	0.06	0.04
Crit Moves:	****				****			****			****	

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑↑			↑↑		↱
Volume (veh/h)	1155	0	0	1534	0	6
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00
Hourly flow rate (vph)	1155	0	0	1534	0	6
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (ft)	358			234		
pX, platoon unblocked			0.81		0.91	0.81
vC, conflicting volume			1155		1922	578
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			728		877	16
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			100		100	99
cM capacity (veh/h)			708		261	859

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1
Volume Total	578	578	767	767	6
Volume Left	0	0	0	0	0
Volume Right	0	0	0	0	6
cSH	1700	1700	1700	1700	859
Volume to Capacity	0.34	0.34	0.45	0.45	0.01
Queue Length 95th (ft)	0	0	0	0	1
Control Delay (s)	0.0	0.0	0.0	0.0	9.2
Lane LOS					A
Approach Delay (s)	0.0		0.0		9.2
Approach LOS					A

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	45.7%	ICU Level of Service	A
Analysis Period (min)	15		