APPENDIX E

Existing With Project Conditions Intersection Analysis Worksheets

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

Scenario Report

Scenario:	Existing WP AM
Command:	Existing WP AM
Volume:	Existing AM
Geometry:	Default Geometry
Impact Fee:	Default Impact Fee
Trip Generation:	AM
Trip Distribution:	Default Trip Distribution
Paths:	Default Path
Routes:	Default Route
Configuration:	Default Configuration

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

Trip Generation Report

Forecast for AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Proposed Wal	1.00	Pharmacy/Drugs	24.00	17.00	24	17	41	100.0
	Zone 1 Subtotal					24	17	41	100.0
TOTAL						24	17	41	100.0

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

Trip Distribution Report

Percent Of Trips Project Site

Zone	To Gates 1	3	4	5	6	7	8	9
1	15.0	15.0	15.0	10.0	20.0	5.0	10.0	10.0

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 Superior / Anaheim	B	12.7	0.354	B	13.3	0.381	+ 0.560 D/V
# 2 Superior / 17th	C	xxxxx	0.760	C	xxxxx	0.767	+ 0.007 V/C
# 3 Newport / 18th	C	xxxxx	0.759	C	xxxxx	0.761	+ 0.001 V/C
# 4 Newport / 17th	D	xxxxx	0.821	D	xxxxx	0.822	+ 0.001 V/C

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

```
*******************************************************************************
Intersection #1 Superior / Anaheim
*******************************************************************************
Average Delay (sec/veh):       8.3       Worst Case Level Of Service: B[ 13.3]
*******************************************************************************
Street Name:          Superior Avenue                Anaheim / Superior Avenue
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Control:       Uncontrolled     Uncontrolled       Stop Sign        Stop Sign
Rights:          Include          Include          Include          Include
Lanes:        0  0  0  1  0    0  0  0  0  0    0  0  0  1  0    0  0  1! 0  0
------------|---------------||---------------||---------------||---------------|
Volume Module:
Base Vol:       0  127    34     0    0    0     0    4  125   258    0   15
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  127    34     0    0    0     0    4  125   258    0   15
Added Vol:      0    0    20     0    0    0     0    4    0    14    0    3
PasserByVol:    0    0     0     0    0    0     0    0    0     0    0    0
Initial Fut:    0  127    54     0    0    0     0    8  125   272    0   18
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:     0  127    54     0    0    0     0    8  125   272    0   18
Reduct Vol:     0    0     0     0    0    0     0    0    0     0    0    0
FinalVolume:    0  127    54     0    0    0     0    8  125   272    0   18
------------|---------------||---------------||---------------||---------------|
Critical Gap Module:
Critical Gp:xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx  6.5   6.2   7.1  6.5   6.2
FollowUpTim:xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx  4.0   3.3   3.5  4.0   3.3
------------|---------------||---------------||---------------||---------------|
Capacity Module:
Cnflict Vol: xxxx xxxx xxxxx  xxxx xxxx xxxxx  xxxx  181     0   158  154   154
Potent Cap.: xxxx xxxx xxxxx  xxxx xxxx xxxxx  xxxx  717  1091   813  741   897
Move Cap.:   xxxx xxxx xxxxx  xxxx xxxx xxxxx  xxxx  717  1091   713  741   897
Volume/Cap:  xxxx xxxx  xxxx  xxxx xxxx  xxxx  xxxx 0.01  0.11  0.38 0.00  0.02
------------|---------------||---------------||---------------||---------------|
Level Of Service Module:
2Way95thQ:   xxxx xxxx xxxxx  xxxx xxxx xxxxx  xxxx xxxx xxxxx  xxxx xxxx xxxxx
Control Del:xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx xxxxx
LOS by Move:    *    *     *     *    *     *     *    *     *     *    *     *
Movement:     LT - LTR - RT    LT - LTR - RT    LT - LTR - RT    LT - LTR - RT
Shared Cap.: xxxx xxxx xxxxx  xxxx xxxx xxxxx  xxxx xxxx  1058  xxxx  722 xxxxx
SharedQueue:xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx   0.4 xxxxx  1.9 xxxxx
Shrd ConDel:xxxxx xxxx xxxxx xxxxx xxxx xxxxx xxxxx xxxx   8.9 xxxxx 13.3 xxxxx
Shared LOS:     *    *     *     *    *     *     *    *     A     *    B     *
ApproachDel:    xxxxxx            xxxxxx              8.9             13.3
ApproachLOS:         *                 *                A               B
*******************************************************************************
Note: Queue reported is the number of cars per lane.
*******************************************************************************
```


Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

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

```
*******************************************************************************
Intersection #2 Superior / 17th
*******************************************************************************
Cycle (sec):          100                 Critical Vol./Cap.(X):          0.767
Loss Time (sec):        0                 Average Delay (sec/veh):       xxxxxx
Optimal Cycle:         98                 Level Of Service:                   C
*******************************************************************************
Street Name:          Superior Avenue                     17th Street
Approach:       North Bound      South Bound      East Bound       West Bound
Movement:     L  -  T  -  R    L  -  T  -  R    L  -  T  -  R    L  -  T  -  R
------------|---------------||---------------||---------------||---------------|
Control:      Prot+Permit      Prot+Permit       Protected       Prot+Permit
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  0  1  1    1  0  1  1  0    1  0  1  1  0    1  0  1  1  0
------------|---------------||---------------||---------------||---------------|
Volume Module:
Base Vol:      37  107  1038    50  279    49    16  382    29   388  376    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:   37  107  1038    50  279    49    16  382    29   388  376    42
Added Vol:      0    2     0    10    2     3     4    0     0     0    0    14
PasserByVol:    0    0     0     0    0     0     0    0     0     0    0     0
Initial Fut:   37  109  1038    60  281    52    20  382    29   388  376    56
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  109  1038    60  281    52    20  382    29   388  376    56
Reduct Vol:     0    0     0     0    0     0     0    0     0     0    0     0
Reduced Vol:   37  109  1038    60  281    52    20  382    29   388  376    56
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  109  1038    60  281    52    20  382    29   388  376    56
------------|---------------||---------------||---------------||---------------|
Saturation Flow Module:
Sat/Lane:    1600 1600  1600  1600 1600  1600  1600 1600  1600  1600 1600  1600
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 0.19  1.81  1.00 1.69  0.31  1.00 1.86  0.14  1.00 1.74  0.26
Final Sat.:  1600  304  2896  1600 2700   500  1600 2974   226  1600 2785   415
------------|---------------||---------------||---------------||---------------|
Capacity Analysis Module:
Vol/Sat:     0.02 0.36  0.36  0.04 0.10  0.10  0.01 0.13  0.13  0.24 0.13  0.14
Crit Moves:        ****        ****                 ****        ****
*******************************************************************************
```

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

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

Intersection #3 Newport / 18th

Cycle (sec): 100 Critical Vol./Cap.(X): 0.761
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 95 Level Of Service: C

Street Name:	Newport Boulevard						18th Street					
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	3 1	0	1 0	3 0	1	2 0	1 0	1	1 0	0 1	0
Volume Module:												
Base Vol:	35	2999	9	67	2937	120	170	74	28	2	71	45
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:	35	2999	9	67	2937	120	170	74	28	2	71	45
Added Vol:	0	4	2	0	6	0	0	0	0	2	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	35	3003	11	67	2943	120	170	74	28	4	71	45
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:	35	3003	11	67	2943	120	170	74	28	4	71	45
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	35	3003	11	67	2943	120	170	74	28	4	71	45
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:	35	3003	11	67	2943	120	170	74	28	4	71	45
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.99	0.01	1.00	3.00	1.00	2.00	1.00	1.00	1.00	0.61	0.39
Final Sat.:	1600	6377	23	1600	4800	1600	3200	1600	1600	1600	979	621
Capacity Analysis Module:												
Vol/Sat:	0.02	0.47	0.47	0.04	0.61	0.08	0.05	0.05	0.02	0.00	0.07	0.07
Crit Moves:	****				****		****				****	

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project AM

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

Intersection #4 Newport / 17th

Cycle (sec): 100 Critical Vol./Cap.(X): 0.822
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 128 Level Of Service: D

Street Name:	Newport Boulevard						17th Street					
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	3 1	0	2 0	3 0	1	3 0	1 1	0	2 0	3 0	1
Volume Module:												
Base Vol:	36	1809	190	625	1626	442	953	461	19	120	337	183
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:	36	1809	190	625	1626	442	953	461	19	120	337	183
Added Vol:	5	0	0	0	0	8	6	1	3	0	1	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	41	1809	190	625	1626	450	959	462	22	120	338	183
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:	41	1809	190	625	1626	450	959	462	22	120	338	183
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	41	1809	190	625	1626	450	959	462	22	120	338	183
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:	41	1809	190	625	1626	450	959	462	22	120	338	183
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.62	0.38	2.00	3.00	1.00	3.00	1.91	0.09	2.00	3.00	1.00
Final Sat.:	1600	5792	608	3200	4800	1600	4800	3055	145	3200	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.31	0.31	0.20	0.34	0.28	0.20	0.15	0.15	0.04	0.07	0.11
Crit Moves:		****		****			****					****

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

Scenario Report

Scenario:	Existing WP PM
Command:	Existing WP PM
Volume:	Existing PM
Geometry:	Default Geometry
Impact Fee:	Default Impact Fee
Trip Generation:	PM
Trip Distribution:	Default Trip Distribution
Paths:	Default Path
Routes:	Default Route
Configuration:	Default Configuration

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

Trip Generation Report

Forecast for PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Proposed Wal	1.00	Pharmacy/Drugs	54.00	54.00	54	54	108	100.0
	Zone 1 Subtotal					54	54	108	100.0
TOTAL						54	54	108	100.0

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

Trip Distribution Report

Percent Of Trips Project Site

Zone	To Gates 1	3	4	5	6	7	8	9
1	15.0	15.0	15.0	10.0	20.0	5.0	10.0	10.0

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 Superior / Anaheim	C	19.6	0.502	D	26.4	0.616	+ 6.720 D/V
# 2 Superior / 17th	C	xxxxx	0.739	C	xxxxx	0.761	+ 0.022 V/C
# 3 Newport / 18th	D	xxxxx	0.830	D	xxxxx	0.833	+ 0.003 V/C
# 4 Newport / 17th	C	xxxxx	0.778	C	xxxxx	0.782	+ 0.005 V/C

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #1 Superior / Anaheim

Average Delay (sec/veh): 13.6 Worst Case Level Of Service: D[26.4]

Street Name:	Superior Avenue									Anaheim / Superior Avenue								
Approach:	North Bound				South Bound				East Bound				West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Uncontrolled					Uncontrolled					Stop Sign					Stop Sign				
Rights:	Include					Include					Include					Include				
Lanes:	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1!	0	0
Volume Module:																				
Base Vol:	0	223		42		0		0		0	0	13		220		279		0		77
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	223		42		0		0		0	0	13		220		279		0		77
Added Vol:	0	0		46		0		0		0	0	8		0		46		0		8
PasserByVol:	0	0		0		0		0		0	0	0		0		0		0		0
Initial Fut:	0	223		88		0		0		0	0	21		220		325		0		85
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:	0	223		88		0		0		0	0	21		220		325		0		85
Reduct Vol:	0	0		0		0		0		0	0	0		0		0		0		0
FinalVolume:	0	223		88		0		0		0	0	21		220		325		0		85
Critical Gap Module:																				
Critical Gp:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx	6.5		6.2		7.1		6.5		6.2
FollowUpTim:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx	4.0		3.3		3.5		4.0		3.3
Capacity Module:																				
Cnflict Vol:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx	311		0		278		267		267
Potent Cap.:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx	607		1091		679		642		777
Move Cap.:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx	607		1091		528		642		777
Volume/Cap:	xxxx	xxxx		xxxx		xxxx		xxxx		xxxx	xxxx	0.03		0.20		0.62		0.00		0.11
Level Of Service Module:																				
2Way95thQ:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx
Control Del:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx
LOS by Move:	*	*		*		*		*		*	*	*		*		*		*		*
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx	xxxx		1020		xxxx		565		xxxxx
SharedQueue:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx	xxxx		0.9		xxxxx		6.0		xxxxx
Shrd ConDel:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx	xxxx		9.6		xxxxx		26.4		xxxxx
Shared LOS:	*	*		*		*		*		*	*	*		A		*		D		*
ApproachDel:	xxxxxx					xxxxxx					9.6					26.4				
ApproachLOS:	*					*					A					D				

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

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

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

Intersection #2 Superior / 17th

Cycle (sec): 100 Critical Vol./Cap.(X): 0.761
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 95 Level Of Service: C

Street Name:	Superior Avenue									17th Street								
Approach:	North Bound				South Bound				East Bound				West Bound					
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Prot+Permit					Prot+Permit					Protected					Prot+Permit				
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	0	1	1	1	0	1	1	0	1	0	1	1	0	1	0	1	1	0
Volume Module:																				
Base Vol:	109	175		650		100	298		95		25	571		60		355	476		60	
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:	109	175		650		100	298		95		25	571		60		355	476		60	
Added Vol:	0	5		0		32	5		8		8	0		0		0	0		32	
PasserByVol:	0	0		0		0	0		0		0	0		0		0	0		0	
Initial Fut:	109	180		650		132	303		103		33	571		60		355	476		92	
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:	109	180		650		132	303		103		33	571		60		355	476		92	
Reduct Vol:	0	0		0		0	0		0		0	0		0		0	0		0	
Reduced Vol:	109	180		650		132	303		103		33	571		60		355	476		92	
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:	109	180		650		132	303		103		33	571		60		355	476		92	
Saturation Flow Module:																				
Sat/Lane:	1600	1600		1600		1600	1600		1600		1600	1600		1600		1600	1600		1600	
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	0.43		1.57		1.00	1.49		0.51		1.00	1.81		0.19		1.00	1.68		0.32	
Final Sat.:	1600	694		2506		1600	2388		812		1600	2896		304		1600	2682		518	
Capacity Analysis Module:																				
Vol/Sat:	0.07	0.26		0.26		0.08	0.13		0.13		0.02	0.20		0.20		0.22	0.18		0.18	
Crit Moves:		****				****						****				****				

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

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

Intersection #3 Newport / 18th

Cycle (sec):	100	Critical Vol./Cap.(X):	0.833
Loss Time (sec):	0	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	136	Level Of Service:	D

Street Name:	Newport Boulevard						18th Street					
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	3 1	0	1	0 3	0 1	2	0 1	0 1	1	0 0 1 0
Volume Module:												
Base Vol:	90	2462	15	113	3042	128	184	66	58	17	95	37
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:	90	2462	15	113	3042	128	184	66	58	17	95	37
Added Vol:	0	14	5	0	14	0	0	0	0	5	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	90	2476	20	113	3056	128	184	66	58	22	95	37
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:	90	2476	20	113	3056	128	184	66	58	22	95	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	90	2476	20	113	3056	128	184	66	58	22	95	37
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:	90	2476	20	113	3056	128	184	66	58	22	95	37
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.97	0.03	1.00	3.00	1.00	2.00	1.00	1.00	1.00	0.72	0.28
Final Sat.:	1600	6349	51	1600	4800	1600	3200	1600	1600	1600	1152	448
Capacity Analysis Module:												
Vol/Sat:	0.06	0.39	0.39	0.07	0.64	0.08	0.06	0.04	0.04	0.01	0.08	0.08
Crit Moves:	****				****		****				****	

Proposed Walgreens Store TIS
City of Costa Mesa
Existing With Project PM

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

Intersection #4 Newport / 17th

Cycle (sec):	100	Critical Vol./Cap.(X):	0.782
Loss Time (sec):	0	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	105	Level Of Service:	C

Street Name:	Newport Boulevard						17th Street					
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	3 1	0	2	0 3	0 1	3	0 1	1 0	2	0 3 0 1
Volume Module:												
Base Vol:	68	1536	183	750	1610	324	817	498	45	260	501	155
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:	68	1536	183	750	1610	324	817	498	45	260	501	155
Added Vol:	11	0	0	0	0	19	19	3	11	0	3	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	79	1536	183	750	1610	343	836	501	56	260	504	155
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:	79	1536	183	750	1610	343	836	501	56	260	504	155
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	79	1536	183	750	1610	343	836	501	56	260	504	155
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:	79	1536	183	750	1610	343	836	501	56	260	504	155
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.57	0.43	2.00	3.00	1.00	3.00	1.80	0.20	2.00	3.00	1.00
Final Sat.:	1600	5719	681	3200	4800	1600	4800	2878	322	3200	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.05	0.27	0.27	0.23	0.34	0.21	0.17	0.17	0.17	0.08	0.11	0.10
Crit Moves:		****		****			****				****	

APPENDIX F
Near Term With Project Conditions Intersection Analysis Worksheets

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

Scenario Report

Scenario:	Near Term WP AM
Command:	Near Term WP AM
Volume:	Near Term AM
Geometry:	Default Geometry
Impact Fee:	Default Impact Fee
Trip Generation:	AM
Trip Distribution:	Default Trip Distribution
Paths:	Default Path
Routes:	Default Route
Configuration:	Default Configuration

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

Trip Generation Report

Forecast for AM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Proposed Wal	1.00	Pharmacy/Drugs	24.00	17.00	24	17	41	100.0
	Zone 1 Subtotal					24	17	41	100.0
TOTAL						24	17	41	100.0

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

Trip Distribution Report

Percent Of Trips Project Site

Zone	To Gates 1	3	4	5	6	7	8	9
1	15.0	15.0	15.0	10.0	20.0	5.0	10.0	10.0

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 Superior / Anaheim	B	12.9	0.363	B	13.5	0.391	+ 0.585 D/V
# 2 Superior / 17th	C	xxxxx	0.775	C	xxxxx	0.782	+ 0.007 V/C
# 3 Newport / 18th	C	xxxxx	0.775	C	xxxxx	0.776	+ 0.001 V/C
# 4 Newport / 17th	D	xxxxx	0.837	D	xxxxx	0.838	+ 0.001 V/C

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #1 Superior / Anaheim

Average Delay (sec/veh): 8.4 Worst Case Level Of Service: B[13.5]

Street Name:	Superior Avenue								Anaheim / Superior Avenue							
Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Uncontrolled					Uncontrolled					Stop Sign					Stop Sign				
Rights:	Include					Include					Include					Include				
Lanes:	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1!	0	0
Volume Module:																				
Base Vol:	0	127		34		0		0		0	0		4		125	258		0		15
Growth Adj:	1.02	1.02		1.02		1.02		1.02		1.02	1.02		1.02		1.02	1.02		1.02		1.02
Initial Bse:	0	130		35		0		0		0	0		4		128	263		0		15
Added Vol:	0	0		20		0		0		0	0		4		0	14		0		3
PasserByVol:	0	0		0		0		0		0	0		0		0	0		0		0
Initial Fut:	0	130		55		0		0		0	0		8		128	277		0		18
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:	0	130		55		0		0		0	0		8		128	277		0		18
Reduct Vol:	0	0		0		0		0		0	0		0		0	0		0		0
FinalVolume:	0	130		55		0		0		0	0		8		128	277		0		18
Critical Gap Module:																				
Critical Gp:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx		6.5		6.2	7.1		6.5		6.2
FollowUpTim:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx		4.0		3.3	3.5		4.0		3.3
Capacity Module:																				
Cnflict Vol:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx		184		0	161		157		157
Potent Cap.:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx		714		1091	809		739		894
Move Cap.:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx		714		1091	708		739		894
Volume/Cap:	xxxx	xxxx		xxxx		xxxx		xxxx		xxxx	xxxx		0.01		0.12	0.39		0.00		0.02
Level Of Service Module:																				
2Way95thQ:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx		xxxx		xxxxx	xxxx		xxxx		xxxxx
Control Del:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx		xxxx		xxxxx	xxxxx		xxxx		xxxxx
LOS by Move:	*	*		*		*		*		*	*		*		*	*		*		*
Movement:	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT	LT	-	LTR	-	RT
Shared Cap.:	xxxx	xxxx		xxxxx		xxxx		xxxx		xxxxx	xxxx		xxxx		1058	xxxx		717		xxxxx
SharedQueue:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx		xxxx		0.4	xxxxx		2.0		xxxxx
Shrd ConDel:	xxxxx	xxxx		xxxxx		xxxxx		xxxx		xxxxx	xxxxx		xxxx		8.9	xxxxx		13.5		xxxxx
Shared LOS:	*	*		*		*		*		*	*		*		A	*		B		*
ApproachDel:	xxxxxx					xxxxxx					8.9					13.5				
ApproachLOS:	*					*					A					B				

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

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

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

Intersection #2 Superior / 17th

Cycle (sec): 100 Critical Vol./Cap.(X): 0.782
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 105 Level Of Service: C

Street Name:	Superior Avenue								17th Street							
Approach:	North Bound				South Bound				East Bound				West Bound			
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R
Control:	Prot+Permit					Prot+Permit					Protected					Prot+Permit				
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	0	1	1	1	0	1	1	0	1	0	1	1	0	1	0	1	1	0
Volume Module:																				
Base Vol:	37		107		1038	50		279		49	16		382		29	388		376		42
Growth Adj:	1.02		1.02		1.02	1.02		1.02		1.02	1.02		1.02		1.02	1.02		1.02		1.02
Initial Bse:	38		109		1059	51		285		50	16		390		30	396		384		43
Added Vol:	0		2		0	10		2		3	4		0		0	0		0		14
PasserByVol:	0		0		0	0		0		0	0		0		0	0		0		0
Initial Fut:	38		111		1059	61		287		53	20		390		30	396		384		57
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:	38		111		1059	61		287		53	20		390		30	396		384		57
Reduct Vol:	0		0		0	0		0		0	0		0		0	0		0		0
Reduced Vol:	38		111		1059	61		287		53	20		390		30	396		384		57
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:	38		111		1059	61		287		53	20		390		30	396		384		57
Saturation Flow Module:																				
Sat/Lane:	1600		1600		1600	1600		1600		1600	1600		1600		1600	1600		1600		1600
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		0.19		1.81	1.00		1.69		0.31	1.00		1.86		0.14	1.00		1.74		0.26
Final Sat.:	1600		304		2896	1600		2701		499	1600		2974		226	1600		2787		413
Capacity Analysis Module:																				
Vol/Sat:	0.02		0.37		0.37	0.04		0.11		0.11	0.01		0.13		0.13	0.25		0.14		0.14
Crit Moves:			****			****							****			****				

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

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

Intersection #3 Newport / 18th

Cycle (sec):	100	Critical Vol./Cap.(X):	0.776
Loss Time (sec):	0	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	102	Level Of Service:	C

Street Name:	Newport Boulevard									18th Street					
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	3 1	0	1 0	3 0	1	2 0	1 0	1	1 0	0 1	0
Volume Module:												
Base Vol:	35	2999	9	67	2937	120	170	74	28	2	71	45
Growth Adj:	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Initial Bse:	36	3059	9	68	2996	122	173	75	29	2	72	46
Added Vol:	0	4	2	0	6	0	0	0	0	2	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	36	3063	11	68	3002	122	173	75	29	4	72	46
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:	36	3063	11	68	3002	122	173	75	29	4	72	46
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	36	3063	11	68	3002	122	173	75	29	4	72	46
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:	36	3063	11	68	3002	122	173	75	29	4	72	46
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.99	0.01	1.00	3.00	1.00	2.00	1.00	1.00	1.00	0.61	0.39
Final Sat.:	1600	6377	23	1600	4800	1600	3200	1600	1600	1600	979	621
Capacity Analysis Module:												
Vol/Sat:	0.02	0.48	0.48	0.04	0.63	0.08	0.05	0.05	0.02	0.00	0.07	0.07
Crit Moves:	****				****		****				****	

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project AM

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

Intersection #4 Newport / 17th

Cycle (sec):	100	Critical Vol./Cap.(X):	0.838
Loss Time (sec):	0	Average Delay (sec/veh):	xxxxxx
Optimal Cycle:	141	Level Of Service:	D

Street Name:	Newport Boulevard									17th Street					
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	3 1	0	2 0	3 0	1	3 0	1 1	0	2 0	3 0	1
Volume Module:												
Base Vol:	36	1809	190	625	1626	442	953	461	19	120	337	183
Growth Adj:	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Initial Bse:	37	1845	194	638	1659	451	972	470	19	122	344	187
Added Vol:	5	0	0	0	0	8	6	1	3	0	1	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	42	1845	194	638	1659	459	978	471	22	122	345	187
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:	42	1845	194	638	1659	459	978	471	22	122	345	187
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	42	1845	194	638	1659	459	978	471	22	122	345	187
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:	42	1845	194	638	1659	459	978	471	22	122	345	187
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.62	0.38	2.00	3.00	1.00	3.00	1.91	0.09	2.00	3.00	1.00
Final Sat.:	1600	5792	608	3200	4800	1600	4800	3055	145	3200	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.03	0.32	0.32	0.20	0.35	0.29	0.20	0.15	0.15	0.04	0.07	0.12
Crit Moves:		****		****			****					****

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

Scenario Report

Scenario:	Near Term WP PM
Command:	Near Term WP PM
Volume:	Near Term PM
Geometry:	Default Geometry
Impact Fee:	Default Impact Fee
Trip Generation:	PM
Trip Distribution:	Default Trip Distribution
Paths:	Default Path
Routes:	Default Route
Configuration:	Default Configuration

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

Trip Generation Report

Forecast for PM

Zone #	Subzone	Amount	Units	Rate In	Rate Out	Trips In	Trips Out	Total Trips	% Of Total
1	Proposed Wal	1.00	Pharmacy/Drugs	54.00	54.00	54	54	108	100.0
	Zone 1 Subtotal					54	54	108	100.0
TOTAL						54	54	108	100.0

Proposed Walgreens Store TIS
City of Costa Mesa
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Trip Distribution Report

Percent Of Trips Project Site

Zone	To Gates 1	3	4	5	6	7	8	9
1	15.0	15.0	15.0	10.0	20.0	5.0	10.0	10.0

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in V/C
# 1 Superior / Anaheim	C	20.5	0.519	D	28.0	0.635	+ 7.552
# 2 Superior / 17th	C	xxxxx	0.754	C	xxxxx	0.776	+ 0.022
# 3 Newport / 18th	D	xxxxx	0.847	D	xxxxx	0.850	+ 0.003
# 4 Newport / 17th	C	xxxxx	0.793	C	xxxxx	0.798	+ 0.005

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #1 Superior / Anaheim

Average Delay (sec/veh): 14.4 Worst Case Level Of Service: D[28.0]

Street Name:	Superior Avenue						Anaheim / Superior Avenue					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	I 0	0 0	0	0 0	0 0	0	I 0	0 0	I!	0 0
Volume Module:												
Base Vol:	0	223	42	0	0	0	0	13	220	279	0	77
Growth Adj:	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Initial Bse:	0	227	43	0	0	0	0	13	224	285	0	79
Added Vol:	0	0	46	0	0	0	0	8	0	46	0	8
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	227	89	0	0	0	0	21	224	331	0	87
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:	0	227	89	0	0	0	0	21	224	331	0	87
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	227	89	0	0	0	0	21	224	331	0	87
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	6.5	6.2	7.1	6.5	6.2
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	4.0	3.3	3.5	4.0	3.3
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	316	0	283	272	272
Potent Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	603	1091	674	638	772
Move Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	603	1091	521	638	772
Volume/Cap:	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.04	0.21	0.63	0.00	0.11
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT	LT -	LTR -	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1020	xxxx	558	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.9	xxxxx	6.5	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	9.6	xxxxx	28.0	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	A	*	D	*
ApproachDel:	xxxxxx			xxxxxx			9.6			28.0		
ApproachLOS:	*			*			A			D		

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

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

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

Intersection #2 Superior / 17th

Cycle (sec): 100 Critical Vol./Cap.(X): 0.776
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 102 Level Of Service: C

Street Name:	Superior Avenue						17th Street					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L -	T -	R	L -	T -	R	L -	T -	R	L -	T -	R
Control:	Prot+Permit			Prot+Permit			Protected			Prot+Permit		
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:	I 0	0	1 1	1 0	1	1 0	1 0	1	1 0	1 0	1	1 0
Volume Module:												
Base Vol:	109	175	650	100	298	95	25	571	60	355	476	60
Growth Adj:	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Initial Bse:	111	179	663	102	304	97	26	582	61	362	486	61
Added Vol:	0	5	0	32	5	8	8	0	0	0	0	32
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	111	184	663	134	309	105	34	582	61	362	486	93
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:	111	184	663	134	309	105	34	582	61	362	486	93
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	111	184	663	134	309	105	34	582	61	362	486	93
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:	111	184	663	134	309	105	34	582	61	362	486	93
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	0.43	1.57	1.00	1.49	0.51	1.00	1.81	0.19	1.00	1.68	0.32
Final Sat.:	1600	694	2506	1600	2389	811	1600	2896	304	1600	2685	515
Capacity Analysis Module:												
Vol/Sat:	0.07	0.26	0.26	0.08	0.13	0.13	0.02	0.20	0.20	0.23	0.18	0.18
Crit Moves:		****		****				****		****		

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

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

Intersection #3 Newport / 18th

Cycle (sec): 100 | Critical Vol./Cap.(X): 0.850
Loss Time (sec): 0 | Average Delay (sec/veh): xxxxxx
Optimal Cycle: 152 | Level Of Service: D

Street Name:	Newport Boulevard						18th Street					
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	3 1	0	1 0	3 0	1	2 0	1 0	1	1 0	0 1	0
Volume Module:												
Base Vol:	90	2462	15	113	3042	128	184	66	58	17	95	37
Growth Adj:	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Initial Bse:	92	2511	15	115	3103	131	188	67	59	17	97	38
Added Vol:	0	14	5	0	14	0	0	0	0	5	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	92	2525	20	115	3117	131	188	67	59	22	97	38
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	2525	20	115	3117	131	188	67	59	22	97	38
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	92	2525	20	115	3117	131	188	67	59	22	97	38
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	2525	20	115	3117	131	188	67	59	22	97	38
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.97	0.03	1.00	3.00	1.00	2.00	1.00	1.00	1.00	0.72	0.28
Final Sat.:	1600	6349	51	1600	4800	1600	3200	1600	1600	1600	1152	448
Capacity Analysis Module:												
Vol/Sat:	0.06	0.40	0.40	0.07	0.65	0.08	0.06	0.04	0.04	0.01	0.08	0.08
Crit Moves:	****				****		****				****	

Proposed Walgreens Store TIS
City of Costa Mesa
Near Term With Project PM

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

Intersection #4 Newport / 17th

Cycle (sec): 100 | Critical Vol./Cap.(X): 0.798
Loss Time (sec): 0 | Average Delay (sec/veh): xxxxxx
Optimal Cycle: 113 | Level Of Service: C

Street Name:	Newport Boulevard						17th Street					
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	3 1	0	2 0	3 0	1	3 0	1 1	0	2 0	3 0	1
Volume Module:												
Base Vol:	68	1536	183	750	1610	324	817	498	45	260	501	155
Growth Adj:	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
Initial Bse:	69	1567	187	765	1642	330	833	508	46	265	511	158
Added Vol:	11	0	0	0	0	19	19	3	11	0	3	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	80	1567	187	765	1642	349	852	511	57	265	514	158
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:	80	1567	187	765	1642	349	852	511	57	265	514	158
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	80	1567	187	765	1642	349	852	511	57	265	514	158
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:	80	1567	187	765	1642	349	852	511	57	265	514	158
Saturation Flow Module:												
Sat/Lane:	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
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	3.57	0.43	2.00	3.00	1.00	3.00	1.80	0.20	2.00	3.00	1.00
Final Sat.:	1600	5719	681	3200	4800	1600	4800	2879	321	3200	4800	1600
Capacity Analysis Module:												
Vol/Sat:	0.05	0.27	0.27	0.24	0.34	0.22	0.18	0.18	0.18	0.08	0.11	0.10
Crit Moves:		****		****			****				****	