

DOCKETED	
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Appendix 3.12A

Worker VMT Estimation, Traffic Counts, Synchro and
SimTraffic Worksheets

4 of 4

Intersection

Int Delay, s/veh 2.2

Movement EBT EBR WBL WBT NBL NBR

Lane Configurations

Traffic Vol, veh/h 296 0 21 45 0 66

Future Vol, veh/h 296 0 21 45 0 66

Conflicting Peds, #/hr 0 0 0 0 0 0

Sign Control Free Free Free Free Stop Stop

RT Channelized - None - None - None

Storage Length - - - - 0 -

Veh in Median Storage, # 0 - - 0 0 -

Grade, % 0 - - 0 0 -

Peak Hour Factor 92 92 92 92 92 92

Heavy Vehicles, % 15 2 100 100 2 31

Mvmt Flow 322 0 23 49 0 72

Major/Minor Major1 Major2 Minor1

Conflicting Flow All 0 0 322 0 416 322

Stage 1 - - - - 322 -

Stage 2 - - - - 95 -

Critical Hdwy - - 5.1 - 6.42 6.51

Critical Hdwy Stg 1 - - - - 5.42 -

Critical Hdwy Stg 2 - - - - 5.42 -

Follow-up Hdwy - - 3.1 - 3.518 3.579

Pot Cap-1 Maneuver - - 843 - 593 657

Stage 1 - - - - 735 -

Stage 2 - - - - 929 -

Platoon blocked, % - - - - -

Mov Cap-1 Maneuver - - 843 - 576 657

Mov Cap-2 Maneuver - - - - 576 -

Stage 1 - - - - 735 -

Stage 2 - - - - 903 -

Approach EB WB NB

HCM Ctrl Dly, s/v 0 2.99 11.15

HCM LOS B

Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT

Capacity (veh/h) 657 - - 573 -

HCM Lane V/C Ratio 0.109 - - 0.027 -

HCM Ctrl Dly (s/v) 11.2 - - 9.4 0

HCM Lane LOS B - - A A

HCM 95th %tile Q(veh) 0.4 - - 0.1 -

Intersection						
Int Delay, s/veh	1.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	258	39	6	38	0
Future Vol, veh/h	0	258	39	6	38	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	1	0	100	15	2
Mvmt Flow	0	280	42	7	41	0
Major/Minor	Major1	Major2		Minor2		
Conflicting Flow All	49	0	-	0	326	46
Stage 1	-	-	-	-	46	-
Stage 2	-	-	-	-	280	-
Critical Hdwy	4.12	-	-	-	6.55	6.22
Critical Hdwy Stg 1	-	-	-	-	5.55	-
Critical Hdwy Stg 2	-	-	-	-	5.55	-
Follow-up Hdwy	2.218	-	-	-	3.635	3.318
Pot Cap-1 Maneuver	1558	-	-	-	642	1024
Stage 1	-	-	-	-	945	-
Stage 2	-	-	-	-	738	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1558	-	-	-	642	1024
Mov Cap-2 Maneuver	-	-	-	-	642	-
Stage 1	-	-	-	-	945	-
Stage 2	-	-	-	-	738	-
Approach	EB	WB		SB		
HCM Ctrl Dly, s/v	0	0		10.99		
HCM LOS				B		
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)	1558	-	-	-	642	
HCM Lane V/C Ratio	-	-	-	-	0.064	
HCM Ctrl Dly (s/v)	0	-	-	-	11	
HCM Lane LOS	A	-	-	-	B	
HCM 95th %tile Q(veh)	0	-	-	-	0.2	

SimTraffic Worksheets: Queuing

1: SR-14 WB Ramps & Sierra Hwy Performance by movement

Intersection: 1: SR-14 WB Ramps & Sierra Hwy

Movement	WB	NB	NB
Directions Served	LT	L	R
Maximum Queue (ft)	28	29	71
Average Queue (ft)	2	8	18
95th Queue (ft)	13	29	48
Link Distance (ft)	694	1068	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			55
Storage Blk Time (%)			0
Queuing Penalty (veh)			0

3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy Performance by movement

Intersection: 3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy

Movement	EB	WB	NB	SB	SB
Directions Served	L	L	LTR	L	R
Maximum Queue (ft)	21	21	78	49	38
Average Queue (ft)	1	1	34	7	3
95th Queue (ft)	7	10	63	30	18
Link Distance (ft)			1622		
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)	85	105		50	25
Storage Blk Time (%)				0	0
Queuing Penalty (veh)				0	0

1: SR-14 WB Ramps & Sierra Hwy Performance by movement

Intersection: 1: SR-14 WB Ramps & Sierra Hwy

Movement	WB	NB	NB
Directions Served	LT	L	R
Maximum Queue (ft)	28	29	77
Average Queue (ft)	13	7	24
95th Queue (ft)	34	26	56
Link Distance (ft)	694	1068	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			55
Storage Blk Time (%)			0
Queuing Penalty (veh)			0

3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy Performance by movement

Intersection: 3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy

Movement	EB	EB	WB	NB	SB	SB
Directions Served	L	TR	L	LTR	L	R
Maximum Queue (ft)	25	12	21	139	48	38
Average Queue (ft)	4	0	5	58	25	1
95th Queue (ft)	18	4	19	111	47	13
Link Distance (ft)	1422		1622			
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	85	105		50 25		
Storage Blk Time (%)					0	0
Queuing Penalty (veh)					0	0

1: SR-14 WB Ramps & Sierra Hwy Performance by movement

Queuing and Blocking Report
Non-PCE Existing plus Project Conditions

AM Peak Hour

Intersection: 1: SR-14 WB Ramps & Sierra Hwy

Movement	WB	NB	NB
Directions Served	LT	L	R
Maximum Queue (ft)	31	48	77
Average Queue (ft)	5	9	21
95th Queue (ft)	24	32	59
Link Distance (ft)	694	1068	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			55
Storage Blk Time (%)		0	1
Queuing Penalty (veh)		0	0

3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy Performance by movement

Queuing and Blocking Report
Non-PCE Existing plus Project Conditions

AM Peak Hour

Intersection: 3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy

Movement	EB	WB	NB	SB	SB	SB
Directions Served	L	L	LTR	L	T	R
Maximum Queue (ft)	23	44	99	78	79	38
Average Queue (ft)	2	3	47	10	39	3
95th Queue (ft)	13	18	74	39	78	18
Link Distance (ft)			1618		892	
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)	85	105		50		25
Storage Blk Time (%)				0	4	0
Queuing Penalty (veh)				0	1	0

1: SR-14 WB Ramps & Sierra Hwy Performance by movement

Queuing and Blocking Report
Non-PCE Existing plus Project Conditions

PM Peak Hour

Intersection: 1: SR-14 WB Ramps & Sierra Hwy

Movement	EB	WB	NB	NB
Directions Served	TR	LT	L	R
Maximum Queue (ft)	22	709	822	80
Average Queue (ft)	1	207	224	23
95th Queue (ft)	7	722	730	76
Link Distance (ft)	410	694	1068	
Upstream Blk Time (%)		21		
Queuing Penalty (veh)		37		
Storage Bay Dist (ft)				55
Storage Blk Time (%)			10	29
Queuing Penalty (veh)			0	4

3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy Performance by movement

Queuing and Blocking Report
Non-PCE Existing plus Project Conditions

PM Peak Hour

Intersection: 3: Soledad Canyon Rd/SR-14 EB Ramps & Sierra Hwy

Movement	EB	EB	WB	NB	SB	SB	SB
Directions Served	L	TR	L	LTR	L	T	R
Maximum Queue (ft)	27	14	21	796	74	141	50
Average Queue (ft)	5	1	5	286	24	40	8
95th Queue (ft)	21	7	19	696	58	99	36
Link Distance (ft)		1422		1626		892	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)	85		105		50		25
Storage Blk Time (%)					2	10	0
Queuing Penalty (veh)					0	4	0