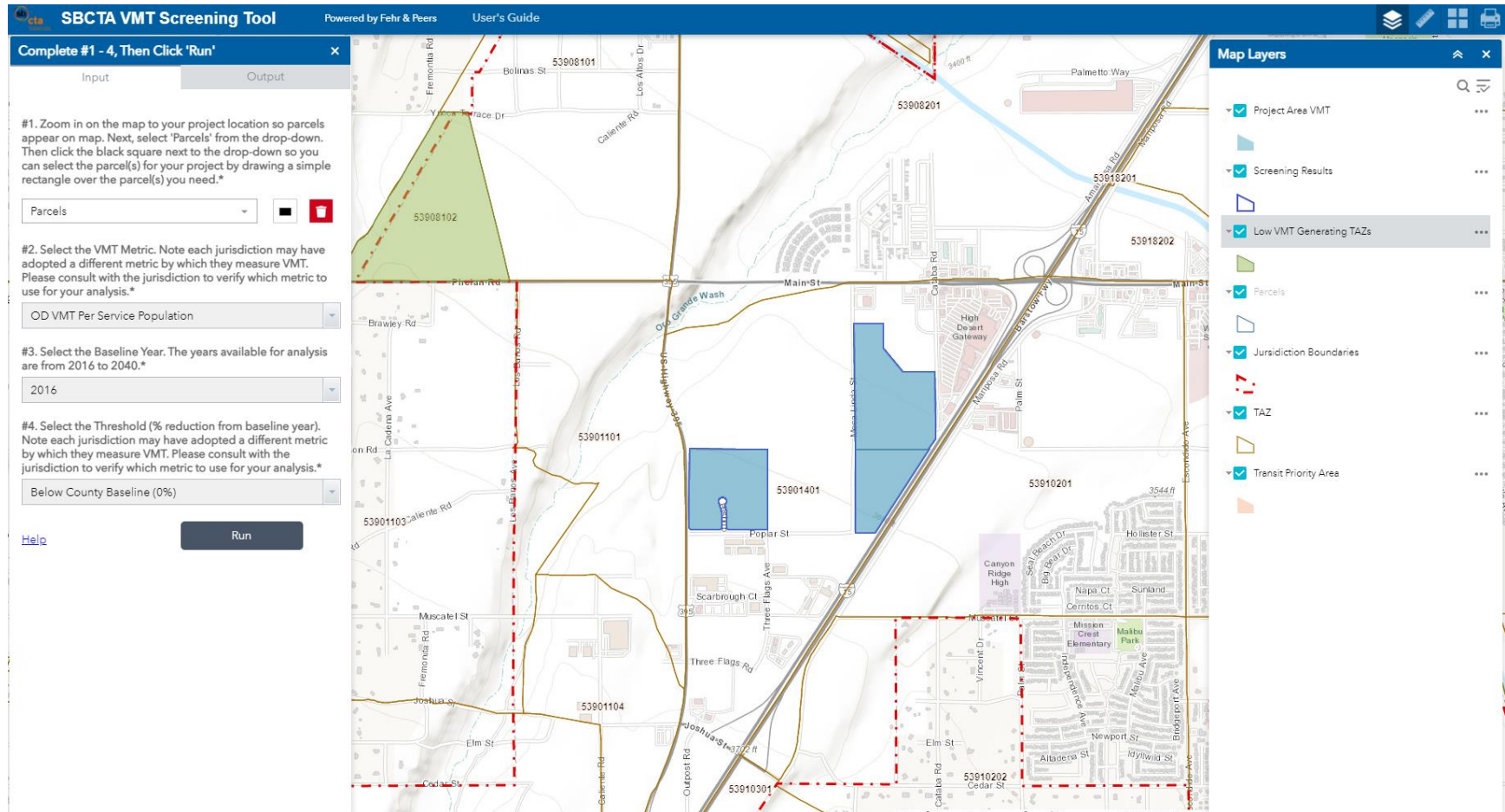

Appendix I

Technical Attachments for Transportation Analysis

Appendix I-1

SBCTA Screening Tool Exports and Project VMT Model Outputs

OD VMT per Service Population (2016)



VTM per Service Population

Completely within a TPA? No (Fail)

Within a low VMT generating TAZ? No (Fail)

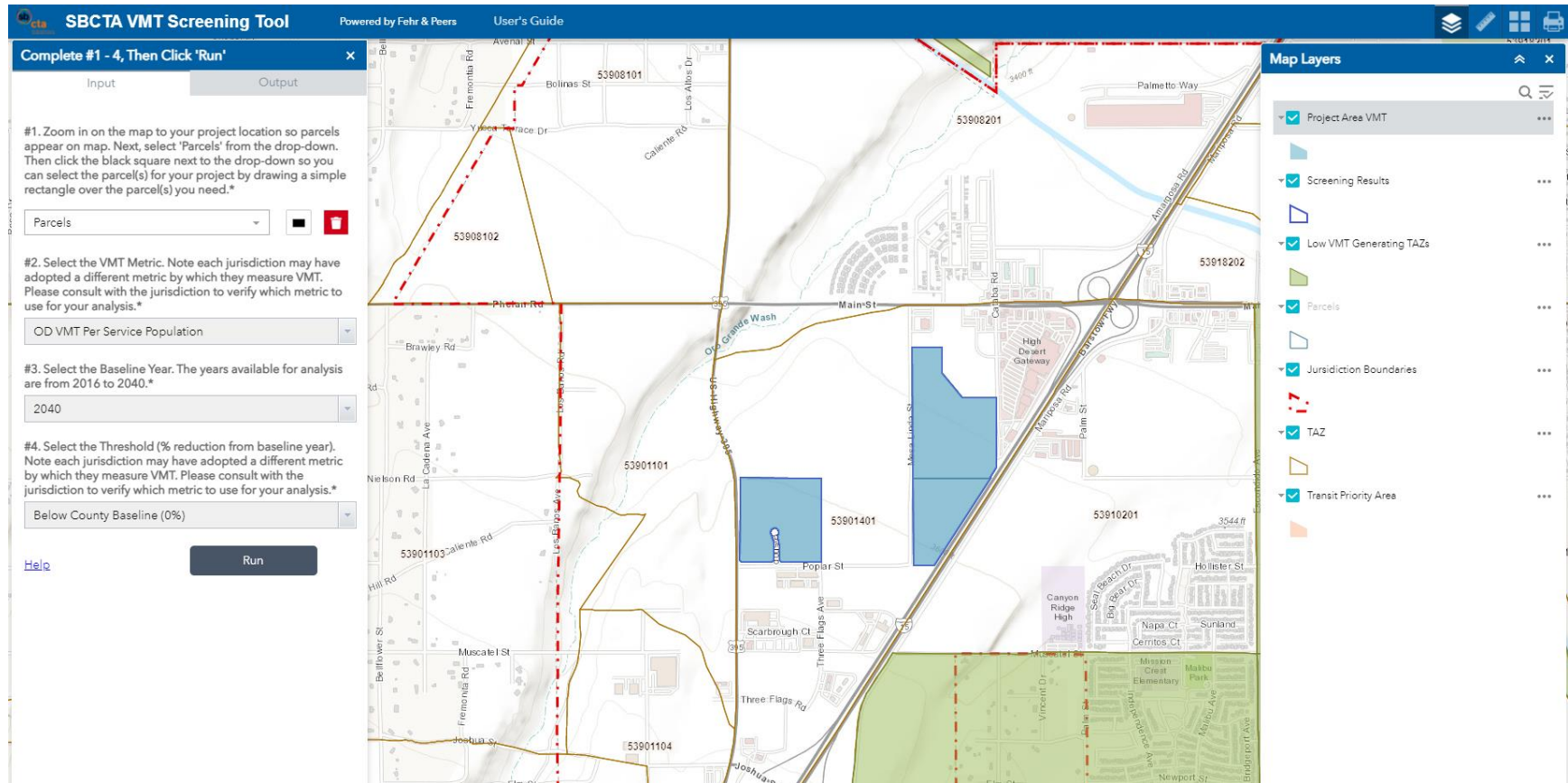
Note Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.

Assessor Parcel Number (APN)	306458101
Traffic Analysis Zone (TAZ)	53901401
TAZ VMT	97.6
Jurisdiction VMT	32.7
% Difference	198.88%
VTM Metric	OD VMT Per Service Population
Threshold	32.7

Assessor Parcel Number (APN)	306460107
Traffic Analysis Zone (TAZ)	53901401
TAZ VMT	97.6
Jurisdiction VMT	32.7
% Difference	198.88%
VTM Metric	OD VMT Per Service Population
Threshold	32.7

Assessor Parcel Number (APN)	306462101
Traffic Analysis Zone (TAZ)	53901401
TAZ VMT	97.6
Jurisdiction VMT	32.7
% Difference	198.88%
VTM Metric	OD VMT Per Service Population
Threshold	32.7

OD VMT per Service Population (2040)



Assessor Parcel Number (APN)	306458101
Traffic Analysis Zone (TAZ)	53901401
TAZ VMT	85.5
Jurisdiction VMT	35.3
% Difference	142.49%
VMT Metric	OD VMT Per Service Population
Threshold	35.3

Assessor Parcel Number (APN)	306460107
Traffic Analysis Zone (TAZ)	53901401
TAZ VMT	85.5
Jurisdiction VMT	35.3
% Difference	142.49%
VMT Metric	OD VMT Per Service Population
Threshold	35.3

Assessor Parcel Number (APN)	306462101
Traffic Analysis Zone (TAZ)	53901401
TAZ VMT	85.5
Jurisdiction VMT	35.3
% Difference	142.49%
VMT Metric	OD VMT Per Service Population
Threshold	35.3

I-15 Industrial Park Project VMT

2016	I-15 Industrial Park (Project)	Entire San Bernardino County*	Entire San Bernardino County**
Population	-	2,140,539	
Employment	2,309	790,400	
Service Population	2,309	2,930,939	-
Homebased Work (HBW) VMT	35,904	-	
PA VMT	47,312	77,318,944	
OD VMT (auto only)	53,542	84,840,769	
OD VMT (auto + truck)	98,060	89,650,705	
HBW VMT per employee	15.5	-	
PA VMT per service population	20.5	26.4	
OD VMT per service population (auto only)	23.2	28.9	
OD VMT per service population (auto + truck)	42.5	30.6	30.0

2040	I-15 Industrial Park (Project)	Entire San Bernardino County*	Entire San Bernardino County**
Population	-	2,721,775	
Employment	2,309	1,027,872	
Service Population	2,309	3,749,647	-
Homebased Work (HBW) VMT	32,520	17,113,294	
PA VMT	43,746	103,271,633	
OD VMT (auto only)	52,346	112,779,783	
OD VMT (auto + truck)	96,120	120,214,345	
HBW VMT per employee	14.1	16.6	
PA VMT per service population	18.9	27.5	
OD VMT per service population (auto only)	22.7	30.1	
OD VMT per service population (auto + truck)	41.6	32.1	30.0

*: Estimated using Translutions "No Project" model runs

** : Obtained from SBCTA SB743 screening tool (<https://www.gosbcta.com/vmtscreening>)

Roadway VMT / Project's effect on VMT (Within San Bernardino County)

2016	With Project	Without Project
Roadway VMT	57,413,117	57,484,358
Service Population	2,933,248	2,930,939
VMT per service population	19.57	19.61

2040	With Project	Without Project
Roadway VMT	88,366,023	88,660,625
Service Population	3,751,956	3,749,647
VMT per service population	23.55	23.65

Appendix I-2

Trip Generation Summary

I-15 Industrial Project Trip Generation Summary

Land Use	ITE Code	Size/Units		Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
TRIP RATES										
General Light Industrial ¹	110	TSF		4.870	0.651	0.089	0.740	0.091	0.559	0.650
High-Cube Fulfillment Center Warehouse ²	N/A	TSF		2.129	0.094	0.028	0.122	0.046	0.119	0.165
TRIP GENERATION										
35% Building 1 - General Light Industrial	110	387.800	TSF	1,889	253	34	287	35	217	252
35% Building 2 - General Light Industrial	110	259.700	TSF	1,265	169	23	192	24	145	169
General Light Industrial Total		647.500	TSF	3,153	422	57	479	59	362	421
65% Building 1 - High-Cube FC Warehouse	N/A	720.200	TSF	1,533	68	20	88	33	86	119
65% Building 2 - High-Cube FC Warehouse	N/A	482.300	TSF	1,027	45	14	59	22	57	80
High-Cube Fulfillment Center Warehouse Total		1,202.500	TSF	2,560	113	34	147	56	143	198
I-15 Industrial Project Total		1,850.000	TSF	5,714	535	92	626	115	505	620
TRIP GENERATION SUMMARY (Non-PCE, by Vehicle Classification)										
General Light Industrial - 35% of Buildings 1 & 2 (647.500 TSF)										
Vehicle Mix ³	% ³									
Passenger Vehicles	78.6%			2,479	331	45	376	46	285	331
2-Axle Trucks	8.0%			252	34	5	39	5	29	34
3-Axle Trucks	3.9%			123	16	2	18	2	14	16
4+-Axle Trucks	9.5%			300	41	5	46	6	34	40
General Light Industrial Total (Non-PCE)				3,153	422	57	479	59	362	421
High-Cube Fulfillment Center Warehouse - 65% of Buildings 1 & 2 (1,202.500 TSF)										
Vehicle Mix ⁴	% Daily ⁴	% AM ⁴	% PM ⁴							
Passenger Vehicles	82.2%	84.4%	87.3%	2,104	96	28	124	48	125	173
2-4 Axle Trucks	7.6%	6.6%	6.7%	195	7	2	10	4	9	13
5+-Axle Trucks	10.2%	9.0%	6.1%	261	10	3	13	3	9	12
High-Cube Fulfillment Center Warehouse Total (Non-PCE)				2,560	113	33	147	55	143	198
Total by Vehicle Classification (1,850.000 TSF)										
Passenger Vehicles				4,583	427	74	500	94	410	504
Trucks				1,131	109	17	126	20	95	115
Total Trip Generation (Non-PCE)				5,714	536	91	626	114	505	619
TRIP GENERATION SUMMARY (PCE, by Vehicle Classification)										
General Light Industrial - 35% of Buildings 1 & 2 (647.500 TSF)										
Vehicle Mix	PCE ⁵									
Passenger Vehicles	1.0			2,479	332	46	378	47	285	332
2-Axle Trucks	1.5			379	51	7	58	8	44	52
3-Axle Trucks	2.0			246	33	5	38	5	29	34
4+-Axle Trucks	3.0			899	123	17	140	17	104	121
General Light Industrial Total (PCE)				4,003	539	75	614	77	462	539
High-Cube Fulfillment Center Warehouse - 65% of Buildings 1 & 2 (1,202.500 TSF)										
Vehicle Mix	PCE ⁵									
Passenger Vehicles	1.0			2,104	96	28	124	48	125	173
2-4 Axle Trucks	2.0			390	15	4	19	7	18	26
5+-Axle Trucks	3.0			783	31	9	40	10	26	36
High-Cube Fulfillment Center Warehouse Total (PCE)				3,277	141	43	184	66	169	235
Total by Vehicle Classification (1,850.000 TSF)										
Passenger Vehicles				4,583	428	75	503	95	410	505
Trucks				2,697	253	43	296	48	221	269
Total Trip Generation (PCE)				7,280	681	118	799	143	631	774

Notes: Rounding discrepancies may occur. TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

¹Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation*, 11th Edition, 2021.

² Trip rates from the TUMF High Cube Warehouse Trip Generation Study, January 29, 2019; inbound/outbound splits from the ITE High Cube Warehouse Vehicle Trip Generation Analysis, October 2016.

³ Vehicle Mix and Percent from the Fontana Truck Trip Generation Study, August, 2004.

⁴Vehicle Mix and Percent from the TUMF High Cube Warehouse Trip Generation Study, January 29, 2019.

⁵Passenger Car Equivalent (PCE) factors from the San Bernardino County CMP, Appendix B - Guidelines for CMP Traffic Impact Analysis Reports in San Bernardino County, 2016.

Appendix I-3

SimTraffic Queueing Worksheets

Queuing and Blocking Report
Existing

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	25	34	112	46	45	110	128	34	518	475	28	163
Average Queue (ft)	6	9	43	12	8	44	54	9	155	58	4	70
95th Queue (ft)	24	28	85	33	29	93	103	31	521	310	19	129
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		
Queuing Penalty (veh)									9	1		
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	151	26
Average Queue (ft)	47	1
95th Queue (ft)	102	9
Link Distance (ft)	1441	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	300	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Queuing and Blocking Report
Existing

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	B33	SB	SB
Directions Served	L	T	TR	L	T	TR	L	T	TR	T	L	T
Maximum Queue (ft)	154	396	414	25	280	379	305	584	528	474	265	525
Average Queue (ft)	43	214	243	3	142	201	231	445	380	84	260	519
95th Queue (ft)	107	360	384	15	243	325	406	653	607	351	296	560
Link Distance (ft)		5770	5770		2174	2174		512	512	2895		455
Upstream Blk Time (%)								12	6			37
Queuing Penalty (veh)								49	27			218
Storage Bay Dist (ft)	340			245			280				240	
Storage Blk Time (%)		1			2		0	50			9	70
Queuing Penalty (veh)		0			0		0	48			44	149

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	SB	B47
Directions Served	TR	T
Maximum Queue (ft)	493	4093
Average Queue (ft)	453	2086
95th Queue (ft)	512	4183
Link Distance (ft)	455	5898
Upstream Blk Time (%)	12	0
Queuing Penalty (veh)	72	0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	T	T	L	L	R
Maximum Queue (ft)	227	293	393	243	202	182	198	225	112
Average Queue (ft)	115	140	228	112	98	99	61	133	45
95th Queue (ft)	203	255	368	206	177	178	148	204	84
Link Distance (ft)	478	478	478	832	832	832		1718	
Upstream Blk Time (%)									
Queuing Penalty (veh)									
Storage Bay Dist (ft)							1000	530	
Storage Blk Time (%)									
Queuing Penalty (veh)									

Queuing and Blocking Report

Existing

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	148	164	235	243	229	234	204	82	145	114
Average Queue (ft)	53	60	96	89	91	96	66	27	64	42
95th Queue (ft)	121	131	197	194	193	196	152	65	116	83
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				0	0	0				
Queuing Penalty (veh)				0	0	0				
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	SB	B33	B33
Directions Served	L	R	L	T	
Maximum Queue (ft)	12	31	65	555	555
Average Queue (ft)	1	7	20	352	190
95th Queue (ft)	8	27	52	757	599
Link Distance (ft)	540	540		512	512
Upstream Blk Time (%)				4	1
Queuing Penalty (veh)				20	4
Storage Bay Dist (ft)			375		
Storage Blk Time (%)					
Queuing Penalty (veh)					

Queuing and Blocking Report
Existing

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	52	90	159	24	44	50	129	139	47	50	149	153
Average Queue (ft)	15	33	81	1	17	20	56	58	15	14	55	67
95th Queue (ft)	41	64	139	9	36	48	110	123	36	37	115	124
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	245					190					225	225
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	36
Average Queue (ft)	10
95th Queue (ft)	27
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report

Existing

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	50	53	118	46	62	22	120	117	15	116	139	135
Average Queue (ft)	12	21	45	12	30	2	58	37	0	39	45	53
95th Queue (ft)	38	50	88	37	49	11	108	91	5	85	103	108
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	6
Average Queue (ft)	0
95th Queue (ft)	3
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	SB	SB
Directions Served	L	R
Maximum Queue (ft)	24	48
Average Queue (ft)	3	28
95th Queue (ft)	16	39
Link Distance (ft)		1440
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	25	
Storage Blk Time (%)	0	7
Queuing Penalty (veh)	0	0

Queuing and Blocking Report

Existing

AM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	45
Average Queue (ft)	5
95th Queue (ft)	25
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 644

Queuing and Blocking Report
Existing

PM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	28	20	70	25	31	100	108	48	501	483	46	108
Average Queue (ft)	4	3	27	6	5	40	48	10	166	54	9	45
95th Queue (ft)	19	14	59	22	21	86	95	34	539	300	32	87
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		
Queuing Penalty (veh)									14	2		
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	79	19
Average Queue (ft)	26	1
95th Queue (ft)	64	9
Link Distance (ft)	1441	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	300	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Queuing and Blocking Report
Existing

PM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	B33	B69	B69
Directions Served	L	T	TR	L	T	TR	L	T	TR	T	T	
Maximum Queue (ft)	227	474	474	132	673	696	305	584	544	2966	474	483
Average Queue (ft)	55	201	220	11	336	376	261	581	513	2639	362	324
95th Queue (ft)	125	350	363	66	562	604	405	619	558	3914	656	649
Link Distance (ft)		5770	5770		2174	2174		512	512	2895	429	429
Upstream Blk Time (%)								55	16	75	33	9
Queuing Penalty (veh)								365	106	990	217	58
Storage Bay Dist (ft)	340			245			280					
Storage Blk Time (%)		2			25		0	87				
Queuing Penalty (veh)		1			2		2	147				

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	SB	SB	SB	B47
Directions Served	L	T	TR	T
Maximum Queue (ft)	265	525	491	905
Average Queue (ft)	246	456	399	353
95th Queue (ft)	322	618	556	1153
Link Distance (ft)		455	455	5898
Upstream Blk Time (%)		23	6	
Queuing Penalty (veh)		111	28	
Storage Bay Dist (ft)	240			
Storage Blk Time (%)	11	57		
Queuing Penalty (veh)	44	111		

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	428	472	496	97	398	374	385	299	365	270
Average Queue (ft)	224	301	360	3	250	228	233	172	230	142
95th Queue (ft)	365	463	504	70	364	341	348	271	324	239
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	0	2	0						
Queuing Penalty (veh)	0	0	6	0						
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)										
Queuing Penalty (veh)										

Queuing and Blocking Report

Existing

PM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	360	397	516	296	306	321	189	135	332	302
Average Queue (ft)	177	194	280	133	129	145	71	61	199	155
95th Queue (ft)	320	351	454	264	269	289	158	117	295	255
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				0	0	0				
Queuing Penalty (veh)				0	1	2				
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	NB	NB	SB	B33	B33
Directions Served	L	R	T	TR	L	T	
Maximum Queue (ft)	25	53	1974	1980	53	557	553
Average Queue (ft)	2	16	1283	1275	12	262	122
95th Queue (ft)	15	45	2635	2645	40	692	485
Link Distance (ft)	540	540	1954	1954		512	512
Upstream Blk Time (%)			15	15		3	1
Queuing Penalty (veh)			99	97		12	3
Storage Bay Dist (ft)					375		
Storage Blk Time (%)							
Queuing Penalty (veh)							

Queuing and Blocking Report

Existing

PM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	72	72	159	28	65	214	933	938	932	92	165	183
Average Queue (ft)	20	23	78	3	20	61	430	436	167	23	56	62
95th Queue (ft)	53	53	139	16	49	196	1083	1083	708	60	124	132
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							13	15	3			
Queuing Penalty (veh)							59	70	13			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)							43				0	0
Queuing Penalty (veh)							15				0	0

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	23
Average Queue (ft)	5
95th Queue (ft)	18
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Existing

PM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	112	101	102	38	106	180	1747	1747	355	137	185	196
Average Queue (ft)	34	33	44	7	38	23	465	454	73	61	63	75
95th Queue (ft)	83	76	90	27	75	111	1459	1450	306	114	141	156
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)							11	12				
Queuing Penalty (veh)							0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)							29	26	0		0	
Queuing Penalty (veh)							5	23	0		0	

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	10
Average Queue (ft)	1
95th Queue (ft)	5
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	SB	SB
Directions Served	L	R
Maximum Queue (ft)	29	57
Average Queue (ft)	8	30
95th Queue (ft)	26	43
Link Distance (ft)		1440
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	25	
Storage Blk Time (%)	1	9
Queuing Penalty (veh)	2	1

Queuing and Blocking Report Existing

PM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	66
Average Queue (ft)	8
95th Queue (ft)	38
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 2606

Queuing and Blocking Report
Existing plus Project

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	25	44	90	37	36	118	119	43	510	491	28	150
Average Queue (ft)	8	14	45	13	5	44	52	10	142	60	3	72
95th Queue (ft)	26	35	83	31	24	98	105	33	498	315	16	123
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		
Queuing Penalty (veh)									8	2		
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	139	25
Average Queue (ft)	46	2
95th Queue (ft)	99	13
Link Distance (ft)	1441	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		300
Storage Blk Time (%)		
Queuing Penalty (veh)		

Queuing and Blocking Report
Existing plus Project

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	B33	B69	SB
Directions Served	L	T	TR	L	T	TR	L	T	TR	T	T	L
Maximum Queue (ft)	176	381	438	27	312	426	305	563	521	301	170	265
Average Queue (ft)	42	229	261	4	157	211	203	410	341	89	6	254
95th Queue (ft)	107	346	390	17	283	360	386	635	582	385	88	308
Link Distance (ft)		5770	5770		2174	2174		512	512	2895	418	
Upstream Blk Time (%)								11	5		0	
Queuing Penalty (veh)								46	23		0	
Storage Bay Dist (ft)	340			245			280					240
Storage Blk Time (%)		1			2		0	42				13
Queuing Penalty (veh)		0			0		0	42				66

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	SB	SB	B47	B27	B27
Directions Served	T	TR	T	T	
Maximum Queue (ft)	525	487	3795	350	211
Average Queue (ft)	512	446	2206	96	43
95th Queue (ft)	599	542	5331	658	331
Link Distance (ft)	455	455	5898	4090	4090
Upstream Blk Time (%)	34	9	8		
Queuing Penalty (veh)	209	58	94		
Storage Bay Dist (ft)					
Storage Blk Time (%)	63				
Queuing Penalty (veh)	151				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	T	T	T	L	L	R
Maximum Queue (ft)	240	366	440	351	290	258	217	272	180
Average Queue (ft)	132	184	276	191	140	128	75	145	83
95th Queue (ft)	222	318	414	314	244	221	170	234	148
Link Distance (ft)	478	478	478	832	832	832		1718	
Upstream Blk Time (%)			0						
Queuing Penalty (veh)			0						
Storage Bay Dist (ft)							1000	530	
Storage Blk Time (%)									
Queuing Penalty (veh)									

Queuing and Blocking Report
Existing plus Project

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	193	205	288	266	250	254	204	129	148	117
Average Queue (ft)	70	77	121	95	91	93	69	55	66	40
95th Queue (ft)	156	168	243	211	206	201	158	103	115	78
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				0	0	0				
Queuing Penalty (veh)				1	0	0				
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	WB	NB	NB	SB	SB	B33	B33
Directions Served	L	R	R	T	TR	L	T	T	
Maximum Queue (ft)	92	35	11	252	229	100	238	565	555
Average Queue (ft)	39	10	0	96	67	43	102	312	131
95th Queue (ft)	73	33	6	196	158	81	217	734	500
Link Distance (ft)		552	552	1954	1954		418	512	512
Upstream Blk Time (%)								3	1
Queuing Penalty (veh)								19	4
Storage Bay Dist (ft)	275					375			
Storage Blk Time (%)									
Queuing Penalty (veh)									

Queuing and Blocking Report
Existing plus Project

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB	
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T	
Maximum Queue (ft)	53	87	146	25	49	57	213	215	39	44	118	135	
Average Queue (ft)	15	30	75	1	16	18	72	89	14	13	50	62	
95th Queue (ft)	42	64	129	10	37	47	155	172	33	38	99	109	
Link Distance (ft)	301	301		613	613		903	903	903			1954	
Upstream Blk Time (%)													
Queuing Penalty (veh)													
Storage Bay Dist (ft)	245					190				225			225
Storage Blk Time (%)	0												
Queuing Penalty (veh)	0												

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	27
Average Queue (ft)	8
95th Queue (ft)	22
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Existing plus Project

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	57	64	110	42	103	18	187	187	8	124	143	145
Average Queue (ft)	13	18	50	10	45	2	83	76	0	47	54	60
95th Queue (ft)	42	48	96	32	75	9	150	149	4	94	120	123
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)							0					
Queuing Penalty (veh)							0					

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	15
Average Queue (ft)	1
95th Queue (ft)	8
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	SB	SB
Directions Served	L	R
Maximum Queue (ft)	24	76
Average Queue (ft)	2	39
95th Queue (ft)	14	62
Link Distance (ft)		1440
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	25	
Storage Blk Time (%)	0	16
Queuing Penalty (veh)	1	1

Queuing and Blocking Report

Existing plus Project

AM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	50
Average Queue (ft)	6
95th Queue (ft)	30
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 725

Queuing and Blocking Report
Existing plus Project

PM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	37	25	75	30	36	90	102	30	515	488	37	106
Average Queue (ft)	6	3	26	6	8	36	47	7	151	43	9	46
95th Queue (ft)	24	16	58	23	28	80	97	27	513	266	31	97
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									1	0		
Queuing Penalty (veh)									10	2		
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)												
Queuing Penalty (veh)												

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	108	27
Average Queue (ft)	30	2
95th Queue (ft)	78	13
Link Distance (ft)	1441	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		300
Storage Blk Time (%)		
Queuing Penalty (veh)		

Queuing and Blocking Report
Existing plus Project

PM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	B33	B69	B69
Directions Served	L	T	TR	L	T	TR	L	T	TR	T	T	
Maximum Queue (ft)	216	397	426	220	718	724	305	584	560	2966	468	467
Average Queue (ft)	52	198	226	16	396	435	277	584	517	2627	359	228
95th Queue (ft)	153	349	375	98	695	723	400	585	533	3904	628	569
Link Distance (ft)		5770	5770		2174	2174		512	512	2895	418	418
Upstream Blk Time (%)								56	17	73	17	4
Queuing Penalty (veh)								381	117	998	119	29
Storage Bay Dist (ft)	340			245			280					
Storage Blk Time (%)		2			32		0	86				
Queuing Penalty (veh)		1			3		3	161				

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	SB	SB	SB	B47
Directions Served	L	T	TR	T
Maximum Queue (ft)	265	525	483	458
Average Queue (ft)	244	422	364	82
95th Queue (ft)	320	589	545	344
Link Distance (ft)		455	455	5898
Upstream Blk Time (%)		10	4	
Queuing Penalty (veh)		49	18	
Storage Bay Dist (ft)	240			
Storage Blk Time (%)	13	41		
Queuing Penalty (veh)	53	82		

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	469	493	516	498	440	424	426	301	348	302
Average Queue (ft)	299	394	453	54	287	255	251	183	243	142
95th Queue (ft)	453	539	542	306	428	388	385	282	329	250
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	1	11	2						
Queuing Penalty (veh)	0	5	47	7						
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)										
Queuing Penalty (veh)										

Queuing and Blocking Report
Existing plus Project

PM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	363	413	479	285	282	293	182	153	356	323
Average Queue (ft)	172	196	281	140	135	142	66	70	208	164
95th Queue (ft)	322	358	449	265	266	271	147	129	313	274
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				0	0	0				
Queuing Penalty (veh)				0	0	0				
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	WB	NB	NB	SB	SB	B69	B33	B33
Directions Served	L	R	R	T	TR	L	T	T	T	
Maximum Queue (ft)	226	69	47	1980	1986	134	466	24	551	550
Average Queue (ft)	122	30	9	1589	1580	31	283	1	234	101
95th Queue (ft)	198	60	33	2484	2502	109	449	13	662	442
Link Distance (ft)		552	552	1954	1954		418	2895	512	512
Upstream Blk Time (%)				20	19		1		2	1
Queuing Penalty (veh)				136	127		11		10	2
Storage Bay Dist (ft)	275					375				
Storage Blk Time (%)	0						2			
Queuing Penalty (veh)	0						1			

Queuing and Blocking Report
Existing plus Project

PM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	73	67	143	25	49	215	935	936	948	71	144	144
Average Queue (ft)	25	28	73	3	15	67	538	544	256	23	62	72
95th Queue (ft)	59	57	124	15	37	208	1193	1194	899	54	127	134
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							16	20	4			
Queuing Penalty (veh)							76	98	21			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)						0	54					
Queuing Penalty (veh)						0	18					

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	26
Average Queue (ft)	7
95th Queue (ft)	22
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Existing plus Project

PM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	91	94	92	29	105	214	1747	1747	355	233	208	194
Average Queue (ft)	38	39	43	5	39	27	712	708	114	120	72	83
95th Queue (ft)	77	78	84	20	72	126	1861	1863	385	205	165	151
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)							22	24				
Queuing Penalty (veh)							0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)							43	40	0	1	0	0
Queuing Penalty (veh)							8	36	0	4	0	0

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	5
Average Queue (ft)	1
95th Queue (ft)	3
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	SB	SB
Directions Served	L	R
Maximum Queue (ft)	25	54
Average Queue (ft)	7	32
95th Queue (ft)	23	46
Link Distance (ft)		1440
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	25	
Storage Blk Time (%)	1	10
Queuing Penalty (veh)	2	1

Queuing and Blocking Report

Existing plus Project

PM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	82
Average Queue (ft)	12
95th Queue (ft)	51
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 2635

Queuing and Blocking Report
Opening Year (2024)

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	38	56	141	43	37	99	101	39	507	487	110	1456
Average Queue (ft)	9	19	61	13	8	36	45	11	111	54	6	451
95th Queue (ft)	30	44	110	33	29	80	87	34	438	297	70	1319
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									1	0		16
Queuing Penalty (veh)									8	2		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)												27
Queuing Penalty (veh)												1

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	206
Average Queue (ft)	434	10
95th Queue (ft)	1302	98
Link Distance (ft)	1441	
Upstream Blk Time (%)	15	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	31	
Queuing Penalty (veh)	3	

Queuing and Blocking Report
Opening Year (2024)

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	B71	B71	B71	NB	NB	NB
Directions Served	L	T	TR	L	T	TR	T	T		L	T	TR
Maximum Queue (ft)	218	463	496	124	2143	2177	231	352	115	305	584	554
Average Queue (ft)	66	218	256	7	1376	1419	36	44	12	276	583	516
95th Queue (ft)	142	365	399	60	2352	2375	249	279	143	400	607	562
Link Distance (ft)		5770	5770		2174	2174	558	558	558		512	512
Upstream Blk Time (%)					8	9	1	1	0		62	18
Queuing Penalty (veh)					60	73	4	7	1		366	107
Storage Bay Dist (ft)	340			245						280		
Storage Blk Time (%)		1			59					6	84	
Queuing Penalty (veh)		0			2					27	167	

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	B33	B69	B69	SB	SB	SB	B47	B27	B27
Directions Served	T	T		L	T	TR	T	T	
Maximum Queue (ft)	2966	470	476	265	525	482	5969	4108	4103
Average Queue (ft)	2713	365	297	259	524	456	5325	2662	2011
95th Queue (ft)	3749	654	635	297	528	477	7603	5480	4775
Link Distance (ft)	2895	429	429		455	455	5898	4090	4090
Upstream Blk Time (%)	80	34	8		58	11	76	23	6
Queuing Penalty (veh)	921	196	46		425	83	1089	166	42
Storage Bay Dist (ft)				240					
Storage Blk Time (%)				20	78				
Queuing Penalty (veh)				116	271				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	R	L	L	R
Maximum Queue (ft)	469	500	503	390	858	873	872	180	1025	1733	555
Average Queue (ft)	219	320	431	38	760	765	762	6	851	1442	546
95th Queue (ft)	370	517	579	250	1019	1020	1024	129	1406	2202	616
Link Distance (ft)	478	478	478	478	832	832	832	832		1718	
Upstream Blk Time (%)	0	0	13	1	16	17	16			38	
Queuing Penalty (veh)	0	2	51	4	88	92	89			0	
Storage Bay Dist (ft)									1000		530
Storage Blk Time (%)									0	0	67
Queuing Penalty (veh)									1	0	245

Queuing and Blocking Report
Opening Year (2024)

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	299	300	370	330	335	330	307	906	1374	599
Average Queue (ft)	121	127	182	234	243	248	123	640	725	203
95th Queue (ft)	253	266	349	390	393	398	277	1214	1922	658
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				7	8	10	1		19	
Queuing Penalty (veh)				37	40	51	5		0	
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)								21	4	0
Queuing Penalty (veh)								95	38	1

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	NB	NB	SB	B33	B33
Directions Served	L	R	T	TR	L	T	
Maximum Queue (ft)	379	134	1979	1991	68	556	542
Average Queue (ft)	185	24	1367	1366	23	229	81
95th Queue (ft)	421	161	2722	2731	56	651	389
Link Distance (ft)	540	540	1954	1954		512	512
Upstream Blk Time (%)	1	0	13	16		2	0
Queuing Penalty (veh)	0	0	103	126		11	2
Storage Bay Dist (ft)					375		
Storage Blk Time (%)							
Queuing Penalty (veh)							

Queuing and Blocking Report
Opening Year (2024)

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	61	77	270	347	70	214	939	946	957	59	202	213
Average Queue (ft)	16	32	179	19	26	53	582	596	432	15	83	90
95th Queue (ft)	46	61	262	143	59	186	1183	1190	1169	44	172	182
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							13	23	15			
Queuing Penalty (veh)							79	137	88			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			4			0	52				0	0
Queuing Penalty (veh)			0			0	13				0	1

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	23
Average Queue (ft)	8
95th Queue (ft)	23
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Opening Year (2024)

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	106	140	144	353	394	214	1747	1747	355	233	280	275
Average Queue (ft)	46	53	54	143	217	50	795	792	64	115	135	144
95th Queue (ft)	95	107	110	296	427	172	1891	1888	288	198	249	242
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)				0	8		24	26				
Queuing Penalty (veh)				0	18		0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)							53	44	0	1	1	0
Queuing Penalty (veh)							19	17	0	3	2	1

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	44
Average Queue (ft)	11
95th Queue (ft)	33
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	67	49	623
Average Queue (ft)	7	14	212
95th Queue (ft)	45	47	552
Link Distance (ft)	919		1440
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		2	67
Queuing Penalty (veh)		12	8

Queuing and Blocking Report
Opening Year (2024)

AM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB	WB
Directions Served	LT	TR
Maximum Queue (ft)	123	4
Average Queue (ft)	37	0
95th Queue (ft)	90	3
Link Distance (ft)	919	238
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 5664

Queuing and Blocking Report
Opening Year (2024)

PM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	30	29	179	204	54	185	203	35	500	492	300	1456
Average Queue (ft)	5	5	51	16	12	45	54	9	126	45	14	406
95th Queue (ft)	22	21	149	115	39	114	127	31	471	273	105	1301
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		17
Queuing Penalty (veh)									14	3		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)			4									25
Queuing Penalty (veh)			0									3

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	205
Average Queue (ft)	391	10
95th Queue (ft)	1293	98
Link Distance (ft)	1441	
Upstream Blk Time (%)	16	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	27	
Queuing Penalty (veh)	3	

Queuing and Blocking Report
Opening Year (2024)

PM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	B71	B71	NB	NB	NB	B33
Directions Served	L	T	TR	L	T	TR	T	T	L	T	TR	T
Maximum Queue (ft)	365	4176	4193	185	2089	2112	106	115	305	584	550	2966
Average Queue (ft)	150	2271	2289	19	1393	1432	9	10	263	584	517	2929
95th Queue (ft)	417	4436	4450	109	2282	2313	81	87	413	589	533	3235
Link Distance (ft)		5770	5770		2174	2174	558	558		512	512	2895
Upstream Blk Time (%)					4	5				61	21	92
Queuing Penalty (veh)					25	30				492	170	1487
Storage Bay Dist (ft)	340			245					280			
Storage Blk Time (%)	0	72		0	66				0	87		
Queuing Penalty (veh)	0	43		0	7				0	208		

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	B69	B69	SB	SB	SB	B47	B27	B27
Directions Served	T		L	T	TR	T	T	
Maximum Queue (ft)	474	480	265	525	491	5969	4104	4104
Average Queue (ft)	431	375	262	523	440	5293	2466	1871
95th Queue (ft)	580	640	273	534	566	7522	5397	4698
Link Distance (ft)	429	429		455	455	5898	4090	4090
Upstream Blk Time (%)	40	11		86	15	73	38	21
Queuing Penalty (veh)	326	85		481	82	799	211	116
Storage Bay Dist (ft)			240					
Storage Blk Time (%)			92	31				
Queuing Penalty (veh)			483	189				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	490	505	508	495	714	728	717	403	481	520
Average Queue (ft)	261	384	476	58	530	517	517	203	279	280
95th Queue (ft)	442	550	519	314	787	783	787	344	418	476
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	1	16	2	3	2	2			
Queuing Penalty (veh)	1	7	111	13	14	9	10			
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)									0	0
Queuing Penalty (veh)									2	2

Queuing and Blocking Report
Opening Year (2024)

PM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	298	311	430	304	308	324	262	249	347	331
Average Queue (ft)	145	151	232	171	169	182	83	120	209	160
95th Queue (ft)	261	269	392	319	324	331	194	213	317	283
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				1	1	2	0			
Queuing Penalty (veh)				7	5	10	2			
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	NB	NB	SB	B33	B33
Directions Served	L	R	T	TR	L	T	
Maximum Queue (ft)	567	592	1988	1981	48	327	113
Average Queue (ft)	543	419	1690	1684	7	25	4
95th Queue (ft)	583	782	2663	2679	32	206	81
Link Distance (ft)	540	540	1954	1954		512	512
Upstream Blk Time (%)	79	36	30	28		0	0
Queuing Penalty (veh)	97	44	246	229		1	0
Storage Bay Dist (ft)					375		
Storage Blk Time (%)							
Queuing Penalty (veh)							

Queuing and Blocking Report
Opening Year (2024)

PM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	65	69	247	24	57	214	941	945	960	58	147	144
Average Queue (ft)	24	25	132	2	19	65	728	737	621	15	60	62
95th Queue (ft)	55	51	213	14	47	211	1268	1264	1322	43	124	128
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							31	43	21			
Queuing Penalty (veh)							197	274	137			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			1			0	72					
Queuing Penalty (veh)			0			0	26					

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	27
Average Queue (ft)	4
95th Queue (ft)	17
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Opening Year (2024)

PM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	215	278	142	169	298	215	1747	1747	355	244	473	412
Average Queue (ft)	186	235	57	47	131	51	1378	1379	171	174	171	149
95th Queue (ft)	258	343	115	114	313	188	2241	2239	459	277	395	309
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)		38			4		55	61				
Queuing Penalty (veh)		0			6		0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)	45	10				0	83	81	0	14	0	0
Queuing Penalty (veh)	124	19				0	27	77	0	87	1	0

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	19
Average Queue (ft)	3
95th Queue (ft)	11
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	37	49	336
Average Queue (ft)	3	23	93
95th Queue (ft)	35	45	420
Link Distance (ft)	919		1440
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		9	27
Queuing Penalty (veh)		29	14

Queuing and Blocking Report
Opening Year (2024)

PM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB	WB
Directions Served	LT	TR
Maximum Queue (ft)	117	4
Average Queue (ft)	41	0
95th Queue (ft)	95	3
Link Distance (ft)	919	238
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 7085

Queuing and Blocking Report
Opening Year (2024) plus Project

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	33	77	169	43	42	126	132	34	514	492	202	1456
Average Queue (ft)	8	22	73	14	7	42	52	8	126	55	12	548
95th Queue (ft)	27	52	140	36	28	93	104	29	471	305	121	1495
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									1	0		22
Queuing Penalty (veh)									9	2		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)												34
Queuing Penalty (veh)												1

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	325
Average Queue (ft)	531	21
95th Queue (ft)	1485	150
Link Distance (ft)	1441	
Upstream Blk Time (%)	21	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	37	0
Queuing Penalty (veh)	3	0

Queuing and Blocking Report
Opening Year (2024) plus Project

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	B71	B71	NB	NB	NB	B33
Directions Served	L	T	TR	L	T	TR	T	T	L	T	TR	T
Maximum Queue (ft)	280	527	544	221	1395	1452	99	128	305	584	554	2966
Average Queue (ft)	69	249	289	13	852	895	3	4	288	584	516	2686
95th Queue (ft)	173	456	490	94	1542	1569	71	87	381	588	533	3771
Link Distance (ft)		5770	5770		2174	2174	558	558		512	512	2895
Upstream Blk Time (%)					0	0		0		63	17	79
Queuing Penalty (veh)					0	1		0		376	103	919
Storage Bay Dist (ft)	340			245					280			
Storage Blk Time (%)		4			53				0	88		
Queuing Penalty (veh)		2			2				1	179		

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	B69	B69	SB	SB	SB	B47	B27	B27
Directions Served	T		L	T	TR	T	T	
Maximum Queue (ft)	456	456	265	525	479	5969	4107	4102
Average Queue (ft)	349	154	262	524	458	5468	2888	2290
95th Queue (ft)	624	479	281	530	469	7438	5603	5071
Link Distance (ft)	417	417		455	455	5898	4090	4090
Upstream Blk Time (%)	20	2		57	12	79	26	7
Queuing Penalty (veh)	116	14		435	89	1180	191	54
Storage Bay Dist (ft)			240					
Storage Blk Time (%)			24	71				
Queuing Penalty (veh)			146	266				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	467	500	510	507	861	878	867	1025	1733	555
Average Queue (ft)	234	345	461	41	807	807	805	873	1657	555
95th Queue (ft)	408	546	548	264	991	991	997	1408	2025	555
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	2	22	1	28	25	25		58	
Queuing Penalty (veh)	1	6	85	5	162	148	143		0	
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)								0	0	74
Queuing Penalty (veh)								0	0	272

Queuing and Blocking Report
Opening Year (2024) plus Project

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	290	284	383	335	339	339	338	1025	1673	725
Average Queue (ft)	102	114	166	273	278	279	149	922	1279	202
95th Queue (ft)	219	227	327	397	394	399	336	1251	2320	665
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				16	17	19	4		51	
Queuing Penalty (veh)				83	88	99	21		0	
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)								47	6	0
Queuing Penalty (veh)								219	54	1

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	WB	NB	NB	SB	SB	B33	B33
Directions Served	L	R	R	T	TR	L	T	T	
Maximum Queue (ft)	165	43	27	1984	1994	122	328	550	541
Average Queue (ft)	80	14	2	1436	1434	57	107	249	123
95th Queue (ft)	138	40	15	2678	2697	113	247	672	478
Link Distance (ft)	552	552	552	1954	1954		417	512	512
Upstream Blk Time (%)				10	13		0	2	0
Queuing Penalty (veh)				96	123		1	13	3
Storage Bay Dist (ft)						375			
Storage Blk Time (%)							0		
Queuing Penalty (veh)							0		

Queuing and Blocking Report
Opening Year (2024) plus Project

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	75	80	266	131	82	214	955	947	958	47	176	192
Average Queue (ft)	23	31	174	6	25	43	660	678	506	13	86	95
95th Queue (ft)	58	63	262	67	60	159	1191	1195	1240	37	155	173
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							15	23	12			
Queuing Penalty (veh)							102	162	84			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			2			0	55					0
Queuing Penalty (veh)			0			0	13					0

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	27
Average Queue (ft)	6
95th Queue (ft)	20
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Opening Year (2024) plus Project

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	126	151	139	353	404	215	1747	1747	355	240	318	314
Average Queue (ft)	53	51	50	122	302	51	1346	1346	114	144	150	160
95th Queue (ft)	115	106	104	259	481	181	2163	2152	384	235	273	268
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)				0	15		47	48				
Queuing Penalty (veh)				0	42		0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)	1						73	75	0	2	2	1
Queuing Penalty (veh)	0						27	29	0	15	4	1

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	144
Average Queue (ft)	17
95th Queue (ft)	96
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	0
Queuing Penalty (veh)	0

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	93	49	1423
Average Queue (ft)	13	16	777
95th Queue (ft)	55	53	1581
Link Distance (ft)	919		1440
Upstream Blk Time (%)			19
Queuing Penalty (veh)			0
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		2	93
Queuing Penalty (veh)		12	11

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	125
Average Queue (ft)	43
95th Queue (ft)	98
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 6216

Queuing and Blocking Report
Opening Year (2024) plus Project

PM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	29	34	214	104	46	179	191	40	495	491	212	1456
Average Queue (ft)	4	7	63	8	13	51	63	10	93	39	14	481
95th Queue (ft)	20	24	155	60	38	137	152	33	403	255	104	1440
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									1	0		22
Queuing Penalty (veh)									8	2		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)			1									31
Queuing Penalty (veh)			0									4

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1455	207
Average Queue (ft)	460	11
95th Queue (ft)	1427	98
Link Distance (ft)	1441	
Upstream Blk Time (%)	21	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	32	
Queuing Penalty (veh)	4	

Queuing and Blocking Report
Opening Year (2024) plus Project

PM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	B61	WB	WB	WB	B71	B71	NB	NB	NB
Directions Served	L	T	TR	T	L	T	TR	T	T	L	T	TR
Maximum Queue (ft)	365	5114	5129	136	225	1659	1700	180	320	305	584	536
Average Queue (ft)	99	2904	2926	12	23	1053	1098	19	30	280	584	516
95th Queue (ft)	338	5494	5513	144	123	2061	2085	140	199	398	586	528
Link Distance (ft)		5770	5770	1801		2174	2174	558	558		512	512
Upstream Blk Time (%)		2	2			5	8	0	0		61	19
Queuing Penalty (veh)		7	7			37	52	0	0		509	155
Storage Bay Dist (ft)	340				245					280		
Storage Blk Time (%)	0	79				61				0	87	
Queuing Penalty (veh)	0	48				6				0	224	

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	B33	B69	B69	SB	SB	SB	B47	B27	B27
Directions Served	T	T		L	T	TR	T	T	
Maximum Queue (ft)	2966	465	461	265	525	472	5969	4105	4104
Average Queue (ft)	2780	401	261	261	522	365	5192	2451	2039
95th Queue (ft)	3626	592	592	274	532	651	7577	5455	4995
Link Distance (ft)	2895	417	417		455	455	5898	4090	4090
Upstream Blk Time (%)	82	23	5		88	6	69	41	27
Queuing Penalty (veh)	1352	187	39		497	37	772	226	150
Storage Bay Dist (ft)				240					
Storage Blk Time (%)				93	43				
Queuing Penalty (veh)				492	266				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	441	500	511	516	754	808	797	651	842	533
Average Queue (ft)	243	375	479	81	618	602	597	285	416	370
95th Queue (ft)	411	551	527	383	905	913	911	675	885	596
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	1	17	3	6	5	5			
Queuing Penalty (veh)	0	9	131	24	28	22	23			
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)								0	0	10
Queuing Penalty (veh)								0	2	63

Queuing and Blocking Report
Opening Year (2024) plus Project

PM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	349	347	430	318	320	317	324	230	359	341
Average Queue (ft)	134	144	215	184	180	188	76	134	204	163
95th Queue (ft)	268	287	380	336	335	340	190	226	315	281
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				3	2	3	0			
Queuing Penalty (veh)				15	10	13	1			
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)										
Queuing Penalty (veh)										

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	WB	NB	NB	SB	SB	B69	B33	B33
Directions Served	L	R	R	T	TR	L	T	T	T	
Maximum Queue (ft)	548	378	259	1980	1986	272	482	58	438	310
Average Queue (ft)	440	136	36	1806	1802	31	139	2	51	14
95th Queue (ft)	664	454	200	2367	2385	152	387	24	309	155
Link Distance (ft)	552	552	552	1954	1954		417	2895	512	512
Upstream Blk Time (%)	19	2	0	31	33	0	1		0	0
Queuing Penalty (veh)	37	5	0	271	282	0	18		3	0
Storage Bay Dist (ft)						375				
Storage Blk Time (%)							2			
Queuing Penalty (veh)							1			

Queuing and Blocking Report
Opening Year (2024) plus Project

PM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	74	70	251	137	70	214	949	949	958	74	204	202
Average Queue (ft)	30	27	137	23	23	58	734	744	664	17	93	93
95th Queue (ft)	69	57	231	186	54	200	1257	1256	1341	48	182	181
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							31	45	25			
Queuing Penalty (veh)							203	299	167			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			4				74				0	0
Queuing Penalty (veh)			0				27				0	1

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	18
Average Queue (ft)	4
95th Queue (ft)	16
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Opening Year (2024) plus Project

PM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	215	278	157	224	399	215	1747	1747	355	245	859	838
Average Queue (ft)	192	246	53	57	201	47	1470	1469	168	234	563	441
95th Queue (ft)	259	338	113	162	423	184	2200	2199	457	283	1001	885
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)		54		0	10		60	65			3	0
Queuing Penalty (veh)		0		0	14		0	0			27	2
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)	57	12					85	84	0	66	0	1
Queuing Penalty (veh)	156	23					27	80	0	471	3	0

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	27
Average Queue (ft)	3
95th Queue (ft)	13
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	46	49	439
Average Queue (ft)	6	27	163
95th Queue (ft)	41	54	669
Link Distance (ft)	919		1440
Upstream Blk Time (%)			1
Queuing Penalty (veh)			0
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		10	37
Queuing Penalty (veh)		35	18

Queuing and Blocking Report
Opening Year (2024) plus Project

PM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB	WB
Directions Served	LT	TR
Maximum Queue (ft)	156	8
Average Queue (ft)	57	0
95th Queue (ft)	123	5
Link Distance (ft)	919	238
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 7596

Queuing and Blocking Report
Future Year (2040)

PM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	110	73	249	392	55	162	183	34	502	477	465	1456
Average Queue (ft)	47	22	151	98	13	53	68	7	203	67	63	1049
95th Queue (ft)	93	55	307	419	36	128	142	28	582	335	313	2017
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		62
Queuing Penalty (veh)									24	4		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)			25								0	70
Queuing Penalty (veh)			4								0	10

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	325
Average Queue (ft)	1046	59
95th Queue (ft)	2014	264
Link Distance (ft)	1441	
Upstream Blk Time (%)	62	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	71	0
Queuing Penalty (veh)	12	0

Queuing and Blocking Report
Future Year (2040)

PM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	B33	B69	B69
Directions Served	L	T	TR	L	T	TR	L	T	TR	T	T	
Maximum Queue (ft)	364	1797	1829	124	608	693	305	584	561	2966	488	484
Average Queue (ft)	137	1096	1116	8	358	413	287	584	521	2939	450	393
95th Queue (ft)	389	1901	1916	62	582	639	388	586	542	3258	540	619
Link Distance (ft)		5770	5770		2174	2174		512	512	2895	429	429
Upstream Blk Time (%)								49	19	85	33	8
Queuing Penalty (veh)								761	297	2639	513	125
Storage Bay Dist (ft)	340			245			280					
Storage Blk Time (%)	0	62			34		1	86				
Queuing Penalty (veh)	0	31			2		13	329				

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	SB	SB	SB	B47	B27	B27
Directions Served	L	T	TR	T	T	
Maximum Queue (ft)	265	525	483	5969	4106	4104
Average Queue (ft)	264	525	457	5628	3689	3420
95th Queue (ft)	268	525	469	7211	5058	5404
Link Distance (ft)		455	455	5898	4090	4090
Upstream Blk Time (%)		57	11	82	41	16
Queuing Penalty (veh)		584	111	1656	414	162
Storage Bay Dist (ft)	240					
Storage Blk Time (%)	82	3				
Queuing Penalty (veh)	596	21				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	486	517	513	508	856	872	869	1025	1733	555
Average Queue (ft)	285	377	469	64	633	619	611	809	1348	515
95th Queue (ft)	496	582	573	335	1027	1004	977	1318	2202	692
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	3	21	1	20	10	9		35	
Queuing Penalty (veh)	4	27	169	10	100	48	46		0	
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)								1	6	61
Queuing Penalty (veh)								9	57	408

Queuing and Blocking Report
Future Year (2040)

PM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	789	825	865	334	338	335	332	1025	1673	725
Average Queue (ft)	403	505	690	236	242	249	131	787	1361	679
95th Queue (ft)	693	835	968	388	395	393	276	1444	2135	888
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)	0	0	9	7	6	6	1		32	
Queuing Penalty (veh)	0	2	65	37	31	34	5		0	
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)								0	54	21
Queuing Penalty (veh)								0	453	175

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	NB	NB	SB	SB	B69	B33
Directions Served	L	R	T	TR	L	T	T	T
Maximum Queue (ft)	558	570	1987	1988	361	401	270	371
Average Queue (ft)	545	528	1964	1968	178	78	30	16
95th Queue (ft)	561	637	1983	1985	376	366	189	154
Link Distance (ft)	540	540	1954	1954		429	2895	512
Upstream Blk Time (%)	97	78	26	31		4		
Queuing Penalty (veh)	305	247	370	429		61		
Storage Bay Dist (ft)					375			
Storage Blk Time (%)					8	1		
Queuing Penalty (veh)					87	5		

Queuing and Blocking Report
Future Year (2040)

PM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	261	93	255	628	628	215	949	945	958	144	172	161
Average Queue (ft)	176	22	118	544	620	65	906	911	840	65	75	75
95th Queue (ft)	365	66	244	866	683	221	1039	1038	1289	120	146	143
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)	33			38	89		48	68	34			
Queuing Penalty (veh)	0			0	0		386	545	271			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			4			0	95					
Queuing Penalty (veh)			1			0	34					

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	23
Average Queue (ft)	4
95th Queue (ft)	17
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Future Year (2040)

PM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	215	278	308	276	408	215	1747	1747	355	229	271	261
Average Queue (ft)	214	278	116	61	364	58	1656	1654	103	132	126	131
95th Queue (ft)	218	283	258	207	500	210	2089	2091	368	234	278	262
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)		86	0	0	46		80	85				
Queuing Penalty (veh)		0	1	0	118		0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)	92	2				0	96	96	0	5	1	0
Queuing Penalty (veh)	375	12				0	40	93	0	36	2	0

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	20
Average Queue (ft)	4
95th Queue (ft)	13
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	364	49	1455
Average Queue (ft)	133	24	1033
95th Queue (ft)	367	62	1973
Link Distance (ft)	919		1440
Upstream Blk Time (%)			56
Queuing Penalty (veh)			0
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		7	90
Queuing Penalty (veh)		33	57

Queuing and Blocking Report
Future Year (2040)

PM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB	WB
Directions Served	LT	TR
Maximum Queue (ft)	150	4
Average Queue (ft)	55	0
95th Queue (ft)	115	3
Link Distance (ft)	919	238
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 13494

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	41	76	275	756	78	155	169	39	516	477	465	1456
Average Queue (ft)	7	25	199	242	33	55	63	8	194	69	49	1389
95th Queue (ft)	28	58	339	717	71	120	132	31	578	339	282	1775
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		87
Queuing Penalty (veh)									17	3		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)			44									91
Queuing Penalty (veh)			13									7

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	325
Average Queue (ft)	1385	122
95th Queue (ft)	1776	380
Link Distance (ft)	1441	
Upstream Blk Time (%)	87	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	90	0
Queuing Penalty (veh)	54	0

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	B71	B71	B71	NB	NB	NB
Directions Served	L	T	TR	L	T	TR	T	T		L	T	TR
Maximum Queue (ft)	365	1022	1069	269	2245	2245	540	567	343	305	584	579
Average Queue (ft)	203	622	654	24	1847	1870	169	176	46	295	562	511
95th Queue (ft)	397	1192	1211	136	2638	2644	563	578	299	354	658	614
Link Distance (ft)		5770	5770		2174	2174	558	558	558		512	512
Upstream Blk Time (%)					35	40	4	7	1		40	17
Queuing Penalty (veh)					283	323	23	38	6		316	132
Storage Bay Dist (ft)	340			245						280		
Storage Blk Time (%)	0	32			68					38	48	
Queuing Penalty (veh)	0	31			9					204	100	

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	B33	B69	B69	SB	SB	SB	B47	B27	B27
Directions Served	T	T		L	T	TR	T	T	
Maximum Queue (ft)	2966	460	434	265	525	499	5969	4106	4105
Average Queue (ft)	2148	243	89	250	525	460	5709	4082	3988
95th Queue (ft)	4064	591	359	331	528	479	7024	4223	4510
Link Distance (ft)	2895	418	418		455	455	5898	4090	4090
Upstream Blk Time (%)	39	10	1		58	17	86	45	18
Queuing Penalty (veh)	605	81	5		828	243	2435	631	247
Storage Bay Dist (ft)				240					
Storage Blk Time (%)				2	89				
Queuing Penalty (veh)				28	338				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	387	490	508	347	860	865	867	1025	1733	555
Average Queue (ft)	178	330	454	27	741	742	729	960	1700	555
95th Queue (ft)	324	542	564	201	1034	1026	1018	1344	1924	556
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	0	15	0	8	6	4		76	
Queuing Penalty (veh)	0	1	61	1	56	42	31		0	
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)								0	0	83
Queuing Penalty (veh)								0	0	278

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	246	265	337	327	350	338	319	1025	1673	725
Average Queue (ft)	107	114	167	283	289	292	143	960	1365	239
95th Queue (ft)	219	235	314	387	385	379	290	1219	2256	710
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				13	13	15	1		31	
Queuing Penalty (veh)				86	82	98	6		0	
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)								38	3	0
Queuing Penalty (veh)								205	34	2

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	WB	NB	NB	SB	SB	B69	B33	B33
Directions Served	L	R	R	T	TR	L	T	T	T	
Maximum Queue (ft)	282	306	246	1963	1972	276	439	6	558	555
Average Queue (ft)	141	140	85	976	972	130	188	0	318	144
95th Queue (ft)	249	263	213	2171	2180	231	362	5	731	528
Link Distance (ft)		552	552	1954	1954		418	2895	512	512
Upstream Blk Time (%)				5	6	0	0		3	1
Queuing Penalty (veh)				55	65	0	8		47	10
Storage Bay Dist (ft)	275					375				
Storage Blk Time (%)	0	2					1			
Queuing Penalty (veh)	0	8					3			

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	87	114	235	23	79	214	936	936	860	111	133	154
Average Queue (ft)	28	35	135	2	28	61	644	668	288	46	65	77
95th Queue (ft)	66	76	216	11	62	197	1052	1059	920	88	117	138
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							6	10	7			
Queuing Penalty (veh)							49	78	54			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			0			0	44					
Queuing Penalty (veh)			0			0	14					

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	22
Average Queue (ft)	6
95th Queue (ft)	19
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	169	146	96	262	317	215	1556	1550	355	225	266	270
Average Queue (ft)	78	65	44	122	152	74	1196	1206	153	108	142	149
95th Queue (ft)	140	119	90	208	312	201	2123	2119	440	189	232	241
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)				0	3		22	26				
Queuing Penalty (veh)				0	8		0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)	0	0					52	51	0	0	1	0
Queuing Penalty (veh)	0	0					29	48	1	1	2	1

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	165
Average Queue (ft)	36
95th Queue (ft)	119
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	0
Queuing Penalty (veh)	0

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	6	49	540
Average Queue (ft)	0	19	187
95th Queue (ft)	4	55	594
Link Distance (ft)	919		1440
Upstream Blk Time (%)			1
Queuing Penalty (veh)			0
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		2	71
Queuing Penalty (veh)		14	12

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	59
Average Queue (ft)	11
95th Queue (ft)	42
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 8490

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	106	72	241	208	42	199	223	38	499	501	378	1456
Average Queue (ft)	44	23	120	37	14	54	67	7	175	84	56	1096
95th Queue (ft)	91	54	255	207	37	137	152	28	550	382	294	2023
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		66
Queuing Penalty (veh)									31	7		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)			10									72
Queuing Penalty (veh)			2									10

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	325
Average Queue (ft)	1088	59
95th Queue (ft)	2029	264
Link Distance (ft)	1441	
Upstream Blk Time (%)	65	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	74	0
Queuing Penalty (veh)	13	0

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	B33	B69	B69
Directions Served	L	T	TR	L	T	TR	L	T	TR	T	T	
Maximum Queue (ft)	364	2510	2528	267	679	724	305	584	564	2966	471	471
Average Queue (ft)	153	1500	1516	21	417	468	285	584	520	2884	408	264
95th Queue (ft)	412	2593	2600	127	818	869	391	586	541	3361	588	602
Link Distance (ft)		5770	5770		2174	2174		512	512	2895	418	418
Upstream Blk Time (%)								48	17	73	17	3
Queuing Penalty (veh)								754	262	2292	262	51
Storage Bay Dist (ft)	340			245			280					
Storage Blk Time (%)	0	65			38		1	84				
Queuing Penalty (veh)	0	33			3		12	334				

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	SB	SB	SB	B47	B27	B27
Directions Served	L	T	TR	T	T	
Maximum Queue (ft)	265	525	494	5969	4105	4105
Average Queue (ft)	263	525	454	5619	3819	3471
95th Queue (ft)	269	527	518	7228	4834	5349
Link Distance (ft)		455	455	5898	4090	4090
Upstream Blk Time (%)		60	10	83	44	17
Queuing Penalty (veh)		617	105	1693	440	170
Storage Bay Dist (ft)	240					
Storage Blk Time (%)	83	6				
Queuing Penalty (veh)	600	38				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	468	516	524	513	828	830	828	1025	1733	555
Average Queue (ft)	277	383	475	66	659	646	645	842	1288	531
95th Queue (ft)	465	571	547	340	1003	993	975	1275	2126	645
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	3	22	1	15	10	9		33	
Queuing Penalty (veh)	1	26	186	12	74	51	47		0	
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)								0	15	49
Queuing Penalty (veh)								3	139	321

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	838	841	860	324	341	327	325	1025	1673	725
Average Queue (ft)	373	466	637	225	234	236	135	691	1288	666
95th Queue (ft)	726	832	972	378	385	380	268	1396	2105	874
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)	0	1	5	5	4	5	1		29	
Queuing Penalty (veh)	2	5	39	26	25	26	6		0	
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)								0	49	18
Queuing Penalty (veh)								0	425	151

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	WB	NB	NB	SB	SB	B33	B33
Directions Served	L	R	R	T	TR	L	T	T	
Maximum Queue (ft)	300	575	570	1983	1990	315	308	105	102
Average Queue (ft)	299	559	425	1965	1968	178	70	7	4
95th Queue (ft)	303	582	738	1977	1983	289	190	106	73
Link Distance (ft)		552	552	1954	1954		418	512	512
Upstream Blk Time (%)		75	12	32	40			0	0
Queuing Penalty (veh)		361	61	456	574			0	0
Storage Bay Dist (ft)	275					375			
Storage Blk Time (%)	90	1					0		
Queuing Penalty (veh)	187	5					0		

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	314	54	237	628	628	215	946	950	957	166	206	212
Average Queue (ft)	239	14	87	537	623	65	911	913	774	68	105	118
95th Queue (ft)	393	43	195	872	660	220	1017	1021	1337	137	193	198
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)	60			55	92		45	64	30			
Queuing Penalty (veh)	0			0	0		371	528	248			
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			1	0		0	96			0	0	0
Queuing Penalty (veh)			0	0		0	34			0	0	1

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	23
Average Queue (ft)	5
95th Queue (ft)	18
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	215	278	294	181	408	215	1747	1747	355	245	566	529
Average Queue (ft)	213	277	101	37	368	52	1671	1670	169	207	316	270
95th Queue (ft)	217	287	252	113	496	197	2076	2071	461	290	705	622
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)		86	1		53		80	87				
Queuing Penalty (veh)		0	2		140		0	0				
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)	90	2				0	97	97	0	47	0	1
Queuing Penalty (veh)	368	11				0	41	94	0	353	2	1

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	130
Average Queue (ft)	7
95th Queue (ft)	63
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	WB	SB	SB
Directions Served	T	L	R
Maximum Queue (ft)	514	49	1455
Average Queue (ft)	226	19	1086
95th Queue (ft)	640	57	1964
Link Distance (ft)	919		1440
Upstream Blk Time (%)	1		60
Queuing Penalty (veh)	4		0
Storage Bay Dist (ft)		25	
Storage Blk Time (%)		5	92
Queuing Penalty (veh)		27	59

Queuing and Blocking Report
Future Year (2040) plus Project

AM Peak Hour

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB	WB
Directions Served	LT	TR
Maximum Queue (ft)	169	55
Average Queue (ft)	77	5
95th Queue (ft)	143	56
Link Distance (ft)	919	238
Upstream Blk Time (%)		0
Queuing Penalty (veh)		0
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Zone Summary

Zone wide Queuing Penalty: 13222

Queuing and Blocking Report
Future Year (2040)

AM Peak Hour

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	EB	EB	WB	WB	NB	NB	NB	NB	B47	B47	SB	SB
Directions Served	L	TR	L	TR	L	T	T	R	T		L	T
Maximum Queue (ft)	42	67	273	391	82	152	146	39	514	499	465	1456
Average Queue (ft)	7	17	178	93	33	48	60	8	144	60	31	1353
95th Queue (ft)	28	47	303	382	69	109	115	31	505	317	215	1843
Link Distance (ft)		805		1460		4090	4090		455	455		1441
Upstream Blk Time (%)									2	0		85
Queuing Penalty (veh)									15	3		0
Storage Bay Dist (ft)	200		250		475			345			440	
Storage Blk Time (%)			22									88
Queuing Penalty (veh)			7									7

Intersection: 1: US Hwy 395 & Eucalyptus Street

Movement	SB	SB
Directions Served	T	R
Maximum Queue (ft)	1456	325
Average Queue (ft)	1351	124
95th Queue (ft)	1846	383
Link Distance (ft)	1441	
Upstream Blk Time (%)	85	
Queuing Penalty (veh)	0	
Storage Bay Dist (ft)		300
Storage Blk Time (%)	89	0
Queuing Penalty (veh)	53	0

Queuing and Blocking Report
Future Year (2040)

AM Peak Hour

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	EB	EB	EB	WB	WB	WB	B71	B71	B71	NB	NB	NB
Directions Served	L	T	TR	L	T	TR	T	T		L	T	TR
Maximum Queue (ft)	364	805	830	269	2245	2245	592	613	588	305	584	585
Average Queue (ft)	217	483	523	24	1994	2010	347	354	97	300	582	532
95th Queue (ft)	422	811	850	131	2730	2712	790	797	450	336	595	565
Link Distance (ft)		5770	5770		2174	2174	558	558	558		512	512
Upstream Blk Time (%)					62	65	13	20	2		43	20
Queuing Penalty (veh)					490	515	70	106	12		344	157
Storage Bay Dist (ft)	340			245						280		
Storage Blk Time (%)	2	23			68					39	53	
Queuing Penalty (veh)	8	22			9					211	107	

Intersection: 4: US Hwy 395 & Phelan Road/Main Street

Movement	B33	B69	B69	SB	SB	SB	B47	B27	B27
Directions Served	T	T		L	T	TR	T	T	
Maximum Queue (ft)	2911	468	279	265	525	489	5969	4104	4105
Average Queue (ft)	2124	130	71	254	525	460	5725	4064	3905
95th Queue (ft)	3457	456	337	322	528	480	7003	4330	4722
Link Distance (ft)	2895	429	429		455	455	5898	4090	4090
Upstream Blk Time (%)	21	6	1		60	21	87	47	20
Queuing Penalty (veh)	334	48	8		840	294	2413	650	273
Storage Bay Dist (ft)				240					
Storage Blk Time (%)				2	90				
Queuing Penalty (veh)				20	318				

Intersection: 8: Main Street & I-15 SB Ramps

Movement	EB	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	T	R	T	T	T	L	L	R
Maximum Queue (ft)	423	488	507	296	739	751	726	1025	1733	555
Average Queue (ft)	189	319	436	37	493	502	496	936	1605	555
95th Queue (ft)	336	525	560	248	849	855	833	1363	2061	555
Link Distance (ft)	478	478	478	478	832	832	832		1718	
Upstream Blk Time (%)	0	0	13	1	2	2	1		62	
Queuing Penalty (veh)	0	2	50	3	12	14	9		0	
Storage Bay Dist (ft)								1000		530
Storage Blk Time (%)								0	0	81
Queuing Penalty (veh)								0	0	272

Queuing and Blocking Report
Future Year (2040)

AM Peak Hour

Intersection: 9: I-15 NB Ramps & Main Street

Movement	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB
Directions Served	T	T	T	T	T	T	R	L	TR	R
Maximum Queue (ft)	255	249	331	326	334	337	325	944	1086	714
Average Queue (ft)	114	120	174	229	247	254	135	526	274	112
95th Queue (ft)	224	239	324	370	375	375	286	944	888	407
Link Distance (ft)	832	832	832	306	306	306	306		1658	
Upstream Blk Time (%)				6	7	8	1		1	
Queuing Penalty (veh)				38	42	49	4		0	
Storage Bay Dist (ft)								1000		700
Storage Blk Time (%)								2	0	0
Queuing Penalty (veh)								10	5	0

Intersection: 13: US Hwy 395 & Poplar Street

Movement	WB	WB	NB	NB	SB	SB	B69	B33	B33
Directions Served	L	R	T	TR	L	T	T	T	
Maximum Queue (ft)	557	570	735	707	326	302	692	554	554
Average Queue (ft)	534	495	165	156	181	93	269	316	191
95th Queue (ft)	588	747	746	727	371	396	1577	737	602
Link Distance (ft)	540	540	1954	1954		429	2895	512	512
Upstream Blk Time (%)	91	80				6	5	5	2
Queuing Penalty (veh)	281	245				180	146	66	27
Storage Bay Dist (ft)					375				
Storage Blk Time (%)					11	0			
Queuing Penalty (veh)					233	2			

Queuing and Blocking Report
Future Year (2040)

AM Peak Hour

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	74	80	227	10	72	186	581	616	120	103	109	127
Average Queue (ft)	24	35	134	1	27	30	275	293	43	40	51	60
95th Queue (ft)	57	69	210	8	61	101	506	521	87	81	95	111
Link Distance (ft)	301	301		613	613		903	903	903			1954
Upstream Blk Time (%)							0	0				
Queuing Penalty (veh)							0	0				
Storage Bay Dist (ft)			245			190				225	225	
Storage Blk Time (%)			0				14					
Queuing Penalty (veh)			0				4					

Intersection: 21: US Hwy 395 & Three Flags Road

Movement	SB
Directions Served	R
Maximum Queue (ft)	18
Average Queue (ft)	5
95th Queue (ft)	18
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	225
Storage Blk Time (%)	
Queuing Penalty (veh)	

Queuing and Blocking Report
Future Year (2040)

AM Peak Hour

Intersection: 22: US Hwy 395 & Joshua Street

Movement	EB	EB	WB	WB	WB	NB	NB	NB	NB	SB	SB	SB
Directions Served	L	TR	L	T	R	L	T	T	R	L	T	T
Maximum Queue (ft)	126	155	136	213	174	215	600	609	354	180	240	216
Average Queue (ft)	72	65	53	117	79	83	312	321	53	77	106	107
95th Queue (ft)	117	124	106	191	137	199	530	540	252	147	196	189
Link Distance (ft)		263	393	393	393		1732	1732			903	903
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	190					190			330	220		
Storage Blk Time (%)		0				0	21	9	0	0	0	
Queuing Penalty (veh)		0				4	12	8	0	1	1	

Intersection: 22: US Hwy 395 & Joshua Street

Movement	SB
Directions Served	R
Maximum Queue (ft)	73
Average Queue (ft)	21
95th Queue (ft)	56
Link Distance (ft)	
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	270
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Joshua Street & I-15 SB Off-Ramp

Movement	SB	SB
Directions Served	L	R
Maximum Queue (ft)	49	209
Average Queue (ft)	14	90
95th Queue (ft)	45	163
Link Distance (ft)		1440
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	25	
Storage Blk Time (%)	1	52
Queuing Penalty (veh)	10	9

Intersection: 24: Joshua Street & I-15 NB On-Ramp

Movement	EB
Directions Served	LT
Maximum Queue (ft)	66
Average Queue (ft)	9
95th Queue (ft)	43
Link Distance (ft)	919
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Zone Summary

Zone wide Queuing Penalty: 9071
