

# Appendix C

---

Traffic Technical Calculations

## **Appendix A**



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	186	168	90.5%	12.2	2.2	B
	Right Turn	96	97	100.8%	7.8	2.5	A
	Subtotal	282	265	94.0%	10.5	1.9	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	265	264	99.5%	6.3	1.0	A
	Through	739	735	99.5%	6.5	0.7	A
	Right Turn						
	Subtotal	1,004	999	99.5%	6.4	0.8	A
Total		1,286	1,264	98.3%	7.3	0.7	A

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	264	257	97.3%	22.9	2.9	C
	Through	633	634	100.1%	23.7	1.7	C
	Right Turn						
	Subtotal	897	890	99.3%	23.4	2.0	C
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	840	830	98.8%	10.9	0.8	B
	Right Turn	291	296	101.7%	16.8	2.9	B
	Subtotal	1,131	1,126	99.6%	12.4	1.3	B
Total		2,028	2,016	99.4%	17.3	1.0	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	34	32	95.3%	11.0	4.4	B
	Subtotal	34	32	95.3%	11.0	4.4	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,097	1,096	99.9%	10.6	0.8	B
	Right Turn						
	Subtotal	1,097	1,096	99.9%	10.6	0.8	B
Total		1,131	1,128	99.8%	10.6	0.8	B

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	6	6	106.7%	8.6	8.3	A
	Through	3	2	66.7%	1.7	5.4	A
	Right Turn						
	Subtotal	9	8	93.3%	6.5	5.2	A
SB	Left Turn						
	Through	9	14	155.6%	5.9	3.5	A
	Right Turn	405	381	94.1%	5.0	0.6	A
	Subtotal	414	395	95.5%	5.0	0.6	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	12	8	70.0%	16.6	11.1	B
	Through	686	711	103.7%	13.2	1.6	B
	Right Turn	142	137	96.6%	14.7	3.3	B
	Subtotal	840	857	102.0%	13.5	1.7	B
Total		1,263	1,260	99.8%	10.8	1.3	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	1	0	40.0%	0.9	2.9	A
	Through	1	1	120.0%	3.6	9.6	A
	Right Turn						
	Subtotal	2	2	80.0%	4.5	9.7	A
SB	Left Turn						
	Through						
	Right Turn	82	82	99.5%	14.0	5.6	B
	Subtotal	82	82	99.5%	14.0	5.6	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	777	794	102.2%	4.6	0.6	A
	Right Turn	93	92	98.9%	4.4	0.5	A
	Subtotal	870	886	101.8%	4.6	0.6	A
Total		954	969	101.6%	5.4	0.9	A

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	564	559	99.1%	3.9	0.5	A
	Right Turn	169	172	102.0%	4.0	1.2	A
	Subtotal	733	731	99.8%	4.0	0.5	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	64	64	100.6%	27.1	6.9	C
	Through	816	833	102.1%	28.8	6.3	C
	Right Turn						
	Subtotal	880	897	102.0%	28.7	6.2	C
Total		1,613	1,628	101.0%	17.7	3.9	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 7

10th St/Capitol Mall

Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	43	40	93.0%	3.0	1.1	A
	Through	786	773	98.3%	1.3	0.2	A
	Right Turn						
	Subtotal	829	813	98.0%	1.3	0.2	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	127	130	102.0%	10.5	2.9	B
	Through						
	Right Turn						
	Subtotal	127	130	102.0%	10.5	2.9	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		956	942	98.6%	2.6	0.5	A

Intersection 8

9th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	189	190	100.5%	7.0	1.0	A
	Through	310	298	96.1%	11.0	1.0	B
	Right Turn						
	Subtotal	499	488	97.8%	9.4	0.8	A
EB	Left Turn						
	Through	366	366	99.9%	9.4	0.7	A
	Right Turn	51	58	114.5%	5.2	2.1	A
	Subtotal	417	424	101.7%	8.8	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		916	912	99.6%	9.2	0.7	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through	772	756	98.0%	8.0	0.5	A
	Right Turn	97	101	104.3%	5.3	1.9	A
	Subtotal	869	858	98.7%	7.7	0.6	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	57	54	94.7%	6.2	1.7	A
	Through	498	499	100.2%	6.2	0.7	A
	Right Turn						
	Subtotal	555	553	99.6%	6.2	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,424	1,410	99.0%	7.1	0.5	A

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	151	149	98.8%	6.4	0.8	A
	Subtotal	151	149	98.8%	6.4	0.8	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	522	531	101.8%	5.6	0.6	A
	Right Turn	73	69	94.8%	5.9	1.8	A
	Subtotal	595	600	100.9%	5.6	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		746	750	100.5%	5.8	0.5	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through	11	13	120.0%	9.8	8.8	A
	Right Turn	48	55	115.0%	4.9	1.5	A
	Subtotal	59	68	115.9%	6.2	2.0	A
SB	Left Turn	1	0	40.0%	2.7	8.4	A
	Through	7	8	108.6%	5.1	4.8	A
	Right Turn						
	Subtotal	8	8	100.0%	7.7	8.0	A
EB	Left Turn	15	15	98.7%	4.8	3.6	A
	Through	603	601	99.6%	3.3	0.3	A
	Right Turn	55	64	117.1%	3.6	1.2	A
	Subtotal	673	680	101.0%	3.3	0.3	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		740	756	102.2%	3.7	0.3	A

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	47	44	94.5%	3.5	0.6	A
Subtotal		47	44	94.5%	3.5	0.6	A
SB	Left Turn						
	Through						
	Right Turn						
Subtotal							
EB	Left Turn						
	Through	471	480	101.8%	1.1	0.2	A
	Right Turn	181	173	95.5%	1.6	0.4	A
Subtotal		652	652	100.1%	1.2	0.2	A
WB	Left Turn						
	Through						
	Right Turn						
Subtotal							
Total		699	697	99.7%	1.4	0.2	A



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
AM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	103	111	107.6%	12.1	1.4	B
	Through	535	522	97.6%	11.8	1.0	B
	Right Turn						
	Subtotal	638	633	99.2%	11.8	1.0	B
EB	Left Turn						
	Through	430	430	100.0%	8.2	0.8	A
	Right Turn	88	92	105.0%	7.0	1.3	A
	Subtotal	518	522	100.8%	8.0	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,156	1,155	99.9%	10.1	0.8	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

**Intersection 1**                      **9th St/L St**                      **Signal**

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	334	328	98.1%	14.1	1.7	B
	Right Turn	92	83	90.0%	16.2	6.3	B
	Subtotal	426	410	96.3%	14.6	1.9	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	542	534	98.6%	22.7	4.0	C
	Through	965	948	98.2%	23.1	6.2	C
	Right Turn						
	Subtotal	1,507	1,482	98.3%	23.0	5.3	C
<b>Total</b>		<b>1,933</b>	<b>1,892</b>	<b>97.9%</b>	<b>21.2</b>	<b>4.4</b>	<b>C</b>

**Intersection 2**                      **10th St/L St**                      **Signal**

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	187	172	91.8%	17.3	1.6	B
	Through	392	396	101.0%	17.5	0.9	B
	Right Turn						
	Subtotal	579	568	98.0%	17.4	0.7	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,285	1,287	100.1%	10.9	1.6	B
	Right Turn	225	209	93.0%	10.2	1.3	B
	Subtotal	1,510	1,496	99.1%	10.8	1.5	B
<b>Total</b>		<b>2,089</b>	<b>2,064</b>	<b>98.8%</b>	<b>12.7</b>	<b>1.1</b>	<b>B</b>

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	313	318	101.7%	13.0	1.6	B
	Subtotal	313	318	101.7%	13.0	1.6	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,197	1,186	99.1%	9.9	0.7	A
	Right Turn						
	Subtotal	1,197	1,186	99.1%	9.9	0.7	A
Total		1,510	1,505	99.7%	10.6	0.5	B

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	17	13	77.6%	4.6	4.6	A
	Through	3	4	120.0%	4.7	7.3	A
	Right Turn						
	Subtotal	20	17	84.0%	5.2	4.3	A
SB	Left Turn						
	Through	5	4	72.0%	6.4	7.5	A
	Right Turn	437	432	98.9%	5.5	0.7	A
	Subtotal	442	436	98.6%	5.5	0.7	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	2	0	20.0%	2.6	3.7	A
	Through	743	740	99.5%	12.0	0.8	B
	Right Turn	77	73	95.1%	13.7	2.6	B
	Subtotal	822	813	98.9%	12.2	0.8	B
Total		1,284	1,266	98.6%	9.8	0.7	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	1	1	120.0%	2.5	4.1	A
	Through						
	Right Turn						
	Subtotal	1	1	120.0%	2.5	4.1	A
SB	Left Turn						
	Through						
	Right Turn	160	166	103.5%	13.7	3.4	B
	Subtotal	160	166	103.5%	13.7	3.4	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	661	647	97.9%	2.8	0.4	A
	Right Turn	16	20	122.5%	2.3	0.8	A
	Subtotal	677	666	98.4%	2.8	0.4	A
Total		838	833	99.4%	4.9	0.9	A

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	1,090	1,123	103.0%	9.9	0.7	A
	Right Turn	147	140	95.5%	6.1	1.6	A
	Subtotal	1,237	1,264	102.2%	9.5	0.6	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	121	136	112.7%	16.3	1.4	B
	Through	538	540	100.4%	14.0	1.6	B
	Right Turn						
	Subtotal	659	676	102.6%	14.5	1.4	B
Total		1,896	1,940	102.3%	11.2	0.7	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

Intersection 7

10th St/Capitol Mall

Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	128	126	98.8%	3.6	0.6	A
	Through	504	501	99.4%	1.4	0.2	A
	Right Turn						
	Subtotal	632	628	99.3%	1.9	0.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	75	72	95.5%	9.5	2.5	A
	Through						
	Right Turn						
	Subtotal	75	72	95.5%	9.5	2.5	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		707	699	98.9%	2.7	0.5	A

Intersection 8

9th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	231	211	91.4%	12.6	1.4	B
	Through	703	722	102.8%	15.2	1.6	B
	Right Turn						
	Subtotal	934	934	100.0%	14.6	1.5	B
EB	Left Turn						
	Through	584	594	101.7%	9.9	0.8	A
	Right Turn	79	80	101.8%	7.8	1.9	A
	Subtotal	663	674	101.7%	9.7	0.6	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,597	1,608	100.7%	12.5	1.0	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through	573	568	99.2%	6.4	0.8	A
	Right Turn	168	175	104.3%	5.9	1.6	A
	Subtotal	741	744	100.4%	6.3	0.8	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	59	57	96.3%	7.0	2.6	A
	Through	756	748	99.0%	6.6	0.6	A
	Right Turn						
	Subtotal	815	805	98.8%	6.6	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,556	1,549	99.5%	6.4	0.4	A

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	105	108	103.2%	6.6	1.4	A
	Subtotal	105	108	103.2%	6.6	1.4	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	864	859	99.4%	6.2	0.5	A
	Right Turn	60	60	100.0%	6.5	1.5	A
	Subtotal	924	919	99.5%	6.2	0.5	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,029	1,028	99.9%	6.2	0.4	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn		0	0.0%	0.0	0.0	A
	Through	1	0	0.0%	0.0	0.0	A
	Right Turn	68	62	91.2%	6.5	1.4	A
	Subtotal	69	62	89.9%	6.5	1.4	A
SB	Left Turn	5	3	56.0%	7.6	13.2	A
	Through	8	10	120.0%	10.9	9.1	B
	Right Turn						
	Subtotal	13	12	95.4%	13.0	8.9	B
EB	Left Turn	4	3	80.0%	1.4	1.6	A
	Through	914	914	100.0%	3.3	0.4	A
	Right Turn	51	49	95.7%	3.4	1.0	A
	Subtotal	969	966	99.7%	3.3	0.3	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,051	1,041	99.0%	3.6	0.3	A

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	122	118	96.7%	7.6	2.6	A
	Subtotal	122	118	96.7%	7.6	2.6	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	841	839	99.8%	1.7	0.3	A
	Right Turn	146	144	98.6%	2.1	0.5	A
	Subtotal	987	983	99.6%	1.8	0.3	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,109	1,101	99.3%	2.4	0.6	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Conditions  
PM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	207	222	107.4%	18.4	1.4	B
	Through	1,024	1,054	103.0%	16.8	0.7	B
	Right Turn						
	Subtotal	1,231	1,277	103.7%	17.1	0.7	B
EB	Left Turn						
	Through	776	759	97.8%	14.8	2.5	B
	Right Turn	187	201	107.4%	10.6	2.1	B
	Subtotal	963	960	99.6%	14.0	2.1	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		2,194	2,236	101.9%	15.8	0.9	B



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	186	203	109.0%	12.0	1.7	B
	Right Turn	96	105	109.2%	7.3	2.1	A
	Subtotal	282	308	109.1%	10.3	1.5	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	277	284	102.4%	6.8	1.2	A
	Through	733	722	98.6%	6.8	0.8	A
	Right Turn						
	Subtotal	1,010	1,006	99.6%	6.8	0.7	A
Total		1,292	1,314	101.7%	7.6	0.8	A

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	264	267	101.2%	23.9	5.7	C
	Through	633	612	96.6%	23.7	4.2	C
	Right Turn						
	Subtotal	897	879	98.0%	23.7	4.6	C
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	846	835	98.7%	11.3	2.0	B
	Right Turn	291	288	99.0%	17.4	5.0	B
	Subtotal	1,137	1,123	98.8%	12.9	2.8	B
Total		2,034	2,002	98.4%	17.7	3.1	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	34	30	89.4%	9.0	4.7	A
	Subtotal	34	30	89.4%	9.0	4.7	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,103	1,098	99.6%	8.4	0.7	A
	Right Turn						
	Subtotal	1,103	1,098	99.6%	8.4	0.7	A
Total		1,137	1,129	99.3%	8.4	0.7	A

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	417	422	101.3%	7.3	3.4	A
	Subtotal	417	422	101.3%	7.3	3.4	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	686	674	98.2%	6.6	0.8	A
	Right Turn	142	154	108.2%	7.4	1.7	A
	Subtotal	828	827	99.9%	6.8	0.9	A
Total		1,245	1,250	100.4%	7.0	1.5	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	1	0	0.0%	0.0	0.0	A
	Through	1	1	80.0%	3.4	7.6	A
	Right Turn						
	Subtotal	2	1	40.0%	3.4	7.6	A
SB	Left Turn						
	Through						
	Right Turn	82	86	105.4%	11.6	4.7	B
	Subtotal	82	86	105.4%	11.6	4.7	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	765	751	98.1%	4.6	0.4	A
	Right Turn	93	95	101.9%	4.5	0.4	A
	Subtotal	858	846	98.6%	4.6	0.4	A
Total		942	933	99.0%	5.3	0.7	A

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	564	556	98.6%	4.0	0.4	A
	Right Turn	169	173	102.2%	4.5	0.8	A
	Subtotal	733	729	99.4%	4.1	0.4	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	64	62	96.3%	21.7	3.6	C
	Through	804	794	98.8%	23.8	4.4	C
	Right Turn						
	Subtotal	868	856	98.6%	23.7	4.2	C
Total		1,601	1,585	99.0%	14.8	2.7	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 7                      10th St/Capitol Mall                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	43	48	111.6%	3.3	0.8	A
	Through	786	756	96.1%	1.5	0.3	A
	Right Turn						
	Subtotal	829	804	96.9%	1.6	0.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	127	134	105.8%	11.4	3.1	B
	Through						
	Right Turn						
	Subtotal	127	134	105.8%	11.4	3.1	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		956	938	98.1%	3.0	0.9	A

Intersection 8                      9th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	201	214	106.5%	7.9	0.6	A
	Through	310	324	104.5%	11.0	1.6	B
	Right Turn						
	Subtotal	511	538	105.3%	9.8	1.2	A
EB	Left Turn						
	Through	366	364	99.6%	9.3	0.7	A
	Right Turn	51	45	88.6%	5.6	1.4	A
	Subtotal	417	410	98.2%	8.8	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		928	948	102.1%	9.4	0.8	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through	772	746	96.6%	8.4	1.4	A
	Right Turn	133	129	97.1%	5.5	1.2	A
	Subtotal	905	875	96.7%	8.0	1.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	57	53	92.6%	4.8	1.3	A
	Through	510	524	102.8%	6.0	0.7	A
	Right Turn						
	Subtotal	567	577	101.8%	5.9	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,472	1,452	98.6%	7.1	1.0	A

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	151	144	95.1%	6.9	1.8	A
	Subtotal	151	144	95.1%	6.9	1.8	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	507	522	103.0%	6.3	0.4	A
	Right Turn	73	68	93.2%	6.5	1.5	A
	Subtotal	580	590	101.8%	6.3	0.5	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		731	734	100.4%	6.5	0.5	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	48	42	87.5%	13.8	3.4	B
	Subtotal	48	42	87.5%	13.8	3.4	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	607	607	100.0%	3.4	0.4	A
	Right Turn	68	58	85.3%	3.3	0.8	A
	Subtotal	675	665	98.5%	3.4	0.4	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		723	707	97.8%	4.0	0.5	A

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	47	55	116.6%	3.7	0.7	A
	Subtotal	47	55	116.6%	3.7	0.7	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	474	472	99.5%	1.1	0.1	A
	Right Turn	181	177	97.9%	1.5	0.2	A
	Subtotal	655	649	99.1%	1.2	0.1	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		702	704	100.2%	1.4	0.2	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
AM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	103	95	92.0%	11.6	1.2	B
	Through	535	536	100.2%	11.6	0.8	B
	Right Turn						
	Subtotal	638	631	98.9%	11.6	0.9	B
EB	Left Turn						
	Through	433	437	101.0%	8.1	1.2	A
	Right Turn	88	88	100.5%	6.2	0.8	A
	Subtotal	521	526	100.9%	7.8	0.9	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,159	1,156	99.8%	9.9	0.7	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	334	334	99.9%	21.9	7.3	C
	Right Turn	92	94	102.6%	34.9	15.9	C
	Subtotal	426	428	100.5%	24.5	7.9	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	549	544	99.1%	17.6	6.7	B
	Through	948	934	98.5%	24.0	12.0	C
	Right Turn						
	Subtotal	1,497	1,478	98.7%	21.7	10.0	C
Total		1,923	1,906	99.1%	22.4	8.9	C

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	187	177	94.8%	22.0	6.4	C
	Through	392	392	99.9%	18.7	1.3	B
	Right Turn						
	Subtotal	579	569	98.2%	19.8	2.5	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,275	1,263	99.0%	18.0	8.7	B
	Right Turn	225	216	96.2%	14.7	6.1	B
	Subtotal	1,500	1,479	98.6%	17.5	7.9	B
Total		2,079	2,048	98.5%	18.1	6.4	B



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	313	298	95.2%	13.6	2.4	B
	Subtotal	313	298	95.2%	13.6	2.4	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,187	1,186	99.9%	7.8	1.1	A
	Right Turn						
	Subtotal	1,187	1,186	99.9%	7.8	1.1	A
Total		1,500	1,484	98.9%	8.9	1.1	A

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	444	454	102.3%	9.6	6.3	A
	Subtotal	444	454	102.3%	9.6	6.3	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	743	737	99.2%	4.5	0.6	A
	Right Turn	77	80	103.4%	4.8	1.3	A
	Subtotal	820	817	99.6%	4.5	0.7	A
Total		1,264	1,271	100.5%	6.3	2.3	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	1	1	80.0%	2.6	8.1	A
	Through						
	Right Turn						
	Subtotal	1	1	80.0%	2.6	8.1	A
SB	Left Turn						
	Through						
	Right Turn	160	159	99.3%	17.2	6.2	C
	Subtotal	160	159	99.3%	17.2	6.2	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	659	657	99.7%	2.9	0.5	A
	Right Turn	16	18	112.5%	2.1	0.8	A
	Subtotal	675	675	100.0%	2.9	0.5	A
Total		836	835	99.9%	5.7	1.6	A

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	1,090	1,117	102.5%	9.8	0.9	A
	Right Turn	147	160	109.1%	6.1	1.7	A
	Subtotal	1,237	1,278	103.3%	9.4	0.8	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	121	120	98.8%	16.4	2.1	B
	Through	536	523	97.5%	13.7	1.9	B
	Right Turn						
	Subtotal	657	642	97.8%	14.2	1.7	B
Total		1,894	1,920	101.4%	10.9	0.8	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 7

10th St/Capitol Mall

Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	128	121	94.7%	3.5	0.7	A
	Through	504	510	101.3%	1.6	0.3	A
	Right Turn						
	Subtotal	632	632	99.9%	1.9	0.4	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	75	66	87.5%	10.6	4.2	B
	Through						
	Right Turn						
	Subtotal	75	66	87.5%	10.6	4.2	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		707	697	98.6%	2.8	0.8	A

Intersection 8

9th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	238	239	100.3%	11.5	1.6	B
	Through	703	672	95.5%	13.3	1.5	B
	Right Turn						
	Subtotal	941	910	96.7%	12.8	1.5	B
EB	Left Turn						
	Through	584	571	97.8%	9.9	1.3	A
	Right Turn	79	86	108.4%	7.9	2.0	A
	Subtotal	663	657	99.1%	9.7	1.2	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,604	1,567	97.7%	11.5	0.8	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through	573	569	99.3%	6.6	1.0	A
	Right Turn	173	164	95.0%	6.6	2.6	A
	Subtotal	746	734	98.3%	6.6	1.2	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	59	67	113.2%	5.9	2.1	A
	Through	763	742	97.2%	6.6	0.7	A
	Right Turn						
	Subtotal	822	809	98.4%	6.5	0.7	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,568	1,542	98.4%	6.6	0.8	A

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	105	112	107.0%	6.5	1.2	A
	Subtotal	105	112	107.0%	6.5	1.2	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	860	832	96.8%	6.1	0.8	A
	Right Turn	60	60	100.0%	5.4	1.5	A
	Subtotal	920	892	97.0%	6.1	0.8	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,025	1,005	98.0%	6.1	0.8	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	68	68	100.6%	13.9	3.1	B
	Subtotal	68	68	100.6%	13.9	3.1	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	925	900	97.3%	3.0	0.3	A
	Right Turn	84	46	54.3%	3.7	1.3	A
	Subtotal	1,009	946	93.8%	3.0	0.4	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,077	1,014	94.2%	3.8	0.4	A

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn	122	108	88.9%	6.3	1.9	A
	Subtotal	122	108	88.9%	6.3	1.9	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	847	835	98.6%	1.5	0.1	A
	Right Turn	146	149	101.9%	2.2	0.7	A
	Subtotal	993	984	99.1%	1.6	0.1	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,115	1,092	97.9%	2.1	0.2	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Existing Plus Project Conditions  
PM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	207	193	93.1%	17.0	0.7	B
	Through	1,024	1,055	103.0%	15.8	0.6	B
	Right Turn						
	Subtotal	1,231	1,248	101.4%	16.0	0.6	B
EB	Left Turn						
	Through	782	772	98.7%	14.2	2.7	B
	Right Turn	187	173	92.4%	10.7	2.9	B
	Subtotal	969	945	97.5%	13.6	2.5	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		2,200	2,193	99.7%	15.0	1.1	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	310	338	109.0%	14.1	1.8	B
	Right Turn	130	133	102.2%	14.0	5.1	B
	Subtotal	440	471	107.0%	14.0	2.5	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	200	190	95.0%	10.2	0.9	B
	Through	1,020	985	96.5%	11.9	0.8	B
	Right Turn						
	Subtotal	1,220	1,175	96.3%	11.6	0.7	B
Total		1,660	1,646	99.1%	12.3	0.9	B

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	260	258	99.1%	21.7	3.0	C
	Through	840	850	101.2%	19.0	2.2	B
	Right Turn						
	Subtotal	1,100	1,108	100.7%	19.6	2.4	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,000	966	96.6%	7.1	1.1	A
	Right Turn	200	206	103.0%	13.1	4.8	B
	Subtotal	1,200	1,172	97.7%	8.2	1.6	A
Total		2,300	2,280	99.1%	13.7	1.7	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	50	47	93.6%	11.4	3.0	B
	Subtotal	50	47	93.6%	11.4	3.0	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,150	1,133	98.5%	23.8	5.2	C
	Right Turn						
	Subtotal	1,150	1,133	98.5%	23.8	5.2	C
Total		1,200	1,180	98.3%	23.3	5.0	C

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	9	92.0%	11.3	9.0	B
	Through	5	6	128.0%	2.9	6.1	A
	Right Turn						
	Subtotal	15	16	104.0%	7.5	5.2	A
SB	Left Turn						
	Through	10	11	108.0%	7.3	7.4	A
	Right Turn	310	319	102.8%	7.0	1.0	A
	Subtotal	320	330	103.0%	7.0	1.0	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	10	11	112.0%	13.8	5.6	B
	Through	830	808	97.3%	23.3	3.6	C
	Right Turn	150	157	104.5%	28.3	5.7	C
	Subtotal	990	976	98.6%	24.0	4.0	C
Total		1,325	1,321	99.7%	19.6	3.2	B



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	5	6	128.0%	5.6	5.9	A
	Through	5	6	128.0%	13.6	10.9	B
	Right Turn						
	Subtotal	10	13	128.0%	12.6	8.3	B
SB	Left Turn						
	Through						
	Right Turn	90	84	92.9%	16.4	3.1	C
	Subtotal	90	84	92.9%	16.4	3.1	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	930	916	98.5%	5.7	1.0	A
	Right Turn	100	103	103.2%	5.6	1.0	A
	Subtotal	1,030	1,019	98.9%	5.7	1.0	A
Total		1,130	1,115	98.7%	6.6	1.1	A

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	780	810	103.8%	6.1	1.1	A
	Right Turn	180	175	97.3%	6.7	1.5	A
	Subtotal	960	985	102.6%	6.2	1.0	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	130	124	95.1%	9.5	1.7	A
	Through	930	917	98.6%	11.3	1.1	B
	Right Turn						
	Subtotal	1,060	1,040	98.2%	11.1	1.1	B
Total		2,020	2,025	100.3%	8.7	0.8	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 7                      10th St/Capitol Mall                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	10	10	96.0%	2.8	1.9	A
	Through	1,000	1,008	100.8%	1.6	0.3	A
	Right Turn						
	Subtotal	1,010	1,017	100.7%	1.6	0.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	100	101	101.2%	12.1	2.8	B
	Through						
	Right Turn						
	Subtotal	100	101	101.2%	12.1	2.8	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,110	1,118	100.8%	2.6	0.5	A

Intersection 8                      9th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	140	139	99.1%	15.1	2.0	B
	Through	400	426	106.6%	14.8	1.0	B
	Right Turn	10	10	96.0%	11.9	8.0	B
	Subtotal	550	575	104.5%	14.9	1.1	B
EB	Left Turn						
	Through	280	258	92.3%	17.2	4.0	B
	Right Turn	60	62	103.3%	14.4	5.1	B
	Subtotal	340	320	94.2%	16.7	4.0	B
WB	Left Turn	100	96	96.0%	12.7	3.6	B
	Through	265	261	98.6%	4.6	0.9	A
	Right Turn						
	Subtotal	365	357	97.9%	6.8	1.2	A
Total		1,255	1,252	99.8%	13.1	1.1	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	280	275	98.1%	21.0	4.4	C
	Through	870	880	101.1%	16.4	2.8	B
	Right Turn	70	73	104.6%	8.4	2.5	A
	Subtotal	1,220	1,228	100.7%	16.9	3.0	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	80	76	95.0%	14.1	3.4	B
	Through	340	323	95.1%	11.6	3.9	B
	Right Turn						
	Subtotal	420	399	95.0%	12.1	3.6	B
WB	Left Turn						
	Through	85	83	97.9%	12.6	1.1	B
	Right Turn	60	61	102.0%	8.0	2.4	A
	Subtotal	145	144	99.6%	10.5	1.3	B
Total		1,785	1,772	99.2%	15.3	1.9	B

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	13	128.0%	13.4	7.3	B
	Through						
	Right Turn	210	207	98.7%	8.4	1.5	A
	Subtotal	220	220	100.0%	8.7	1.7	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	290	274	94.6%	15.6	4.7	B
	Right Turn	120	119	99.3%	13.3	4.4	B
	Subtotal	410	394	96.0%	14.8	4.5	B
WB	Left Turn	70	61	87.4%	22.8	5.2	C
	Through	135	130	96.3%	8.7	2.2	A
	Right Turn						
	Subtotal	205	191	93.3%	13.3	3.2	B
Total		835	805	96.4%	12.7	2.5	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	30	22	74.7%	13.5	4.8	B
	Through	20	21	104.0%	9.3	4.8	A
	Right Turn	70	64	92.0%	7.9	2.4	A
	Subtotal	120	108	89.7%	9.5	3.1	A
SB	Left Turn	5	6	128.0%	11.4	9.8	B
	Through	5	4	88.0%	4.8	4.5	A
	Right Turn	5	4	88.0%	2.3	2.5	A
	Subtotal	15	15	101.3%	9.4	6.9	A
EB	Left Turn	15	21	138.7%	9.5	4.3	A
	Through	385	362	93.9%	8.8	2.3	A
	Right Turn	100	98	98.4%	7.1	3.7	A
	Subtotal	500	481	96.2%	8.5	2.5	A
WB	Left Turn	10	10	96.0%	13.4	7.9	B
	Through	170	163	96.0%	9.8	1.8	A
	Right Turn	5	6	128.0%	5.9	4.4	A
	Subtotal	185	179	96.9%	9.9	2.1	A
Total		820	783	95.5%	9.0	2.0	A

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	10	96.0%	8.2	8.8	A
	Through						
	Right Turn	10	6	64.0%	2.9	1.2	A
	Subtotal	20	16	80.0%	7.9	8.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	270	252	93.5%	2.6	0.6	A
	Right Turn	190	178	93.9%	1.8	0.4	A
	Subtotal	460	431	93.7%	2.3	0.5	A
WB	Left Turn	30	29	96.0%	7.1	4.6	A
	Through	175	171	97.8%	1.6	0.8	A
	Right Turn						
	Subtotal	205	200	97.6%	2.4	1.4	A
Total		685	647	94.4%	2.5	0.7	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
AM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	30	27	90.7%	13.4	2.4	B
	Through	660	664	100.6%	13.8	1.7	B
	Right Turn	100	106	106.0%	14.0	2.3	B
	Subtotal	790	797	100.9%	13.8	1.8	B
EB	Left Turn						
	Through	190	187	98.5%	17.7	3.2	B
	Right Turn	90	80	89.3%	13.9	5.4	B
	Subtotal	280	268	95.6%	16.5	3.8	B
WB	Left Turn	10	9	88.0%	18.2	13.2	B
	Through	105	94	89.1%	9.4	3.6	A
	Right Turn						
	Subtotal	115	102	89.0%	9.9	3.0	A
Total		1,185	1,167	98.5%	14.2	1.3	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	510	500	98.0%	33.1	14.4	C
	Right Turn	150	124	82.4%	104.0	36.7	F
	Subtotal	660	623	94.4%	47.6	18.7	D
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	360	243	67.4%	52.6	10.3	D
	Through	1,325	878	66.2%	80.5	8.2	F
	Right Turn						
	Subtotal	1,685	1,120	66.5%	74.4	8.2	E
Total		2,345	1,744	74.4%	64.7	8.3	E

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	210	182	86.7%	58.0	17.4	E
	Through	600	567	94.5%	23.4	7.6	C
	Right Turn						
	Subtotal	810	749	92.5%	31.9	8.1	C
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,425	987	69.2%	65.2	12.4	E
	Right Turn	200	140	70.0%	62.8	10.7	E
	Subtotal	1,625	1,127	69.3%	64.8	11.9	E
Total		2,435	1,876	77.0%	51.5	9.1	D

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	340	341	100.2%	38.5	10.4	D
	Subtotal	340	341	100.2%	38.5	10.4	D
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,285	925	72.0%	73.0	12.6	E
	Right Turn						
	Subtotal	1,285	925	72.0%	73.0	12.6	E
Total		1,625	1,266	77.9%	63.5	10.2	E

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	20	19	96.0%	47.0	36.8	D
	Through	5	4	80.0%	15.0	27.7	B
	Right Turn						
	Subtotal	25	23	92.8%	43.3	31.9	D
SB	Left Turn						
	Through	5	5	96.0%	37.4	74.1	D
	Right Turn	320	310	96.9%	29.9	17.0	C
	Subtotal	325	315	96.9%	30.2	18.0	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	5	4	88.0%	112.5	81.0	F
	Through	945	649	68.7%	134.2	37.7	F
	Right Turn	80	64	80.5%	130.0	50.6	F
	Subtotal	1,030	718	69.7%	133.9	38.3	F
Total		1,380	1,056	76.5%	100.3	26.9	F

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	5	3	56.0%	44.8	71.0	E
	Through	5	7	136.0%	19.3	29.1	C
	Right Turn						
	Subtotal	10	10	96.0%	31.0	46.4	D
SB	Left Turn						
	Through						
	Right Turn	160	134	83.5%	63.9	27.7	F
	Subtotal	160	134	83.5%	63.9	27.7	F
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	865	675	78.1%	61.1	23.4	F
	Right Turn	20	13	66.0%	53.4	39.3	F
	Subtotal	885	688	77.8%	61.0	23.3	F
Total		1,055	832	78.8%	60.9	22.4	F

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	1,270	1,283	101.0%	21.2	2.2	C
	Right Turn	140	138	98.3%	24.6	5.5	C
	Subtotal	1,410	1,420	100.7%	21.5	2.3	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	210	182	86.7%	28.8	7.3	C
	Through	715	669	93.5%	28.0	5.3	C
	Right Turn						
	Subtotal	925	851	92.0%	28.2	5.6	C
Total		2,335	2,271	97.3%	24.0	2.5	C



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 7                      10th St/Capitol Mall                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	80	68	84.5%	4.8	2.9	A
	Through	780	732	93.9%	1.8	1.1	A
	Right Turn						
	Subtotal	860	800	93.0%	2.0	1.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	30	25	82.7%	10.1	8.5	B
	Through						
	Right Turn						
	Subtotal	30	25	82.7%	10.1	8.5	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		890	825	92.7%	2.3	1.4	A

Intersection 8                      9th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	180	165	91.8%	17.3	2.5	B
	Through	780	705	90.4%	17.5	2.2	B
	Right Turn	10	11	108.0%	9.7	7.0	A
	Subtotal	970	881	90.8%	17.4	1.9	B
EB	Left Turn						
	Through	340	342	100.5%	12.3	2.1	B
	Right Turn	80	64	80.5%	10.4	2.2	B
	Subtotal	420	406	96.7%	12.0	1.9	B
WB	Left Turn	140	143	102.0%	22.8	5.2	C
	Through	395	380	96.1%	7.9	1.6	A
	Right Turn						
	Subtotal	535	522	97.6%	12.1	2.3	B
Total		1,925	1,809	94.0%	14.7	1.6	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	360	336	93.4%	20.3	3.5	C
	Through	680	640	94.2%	13.9	2.2	B
	Right Turn	100	92	91.6%	9.3	2.2	A
	Subtotal	1,140	1,068	93.7%	15.5	2.5	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	90	80	89.3%	19.9	12.8	B
	Through	430	424	98.7%	14.4	3.8	B
	Right Turn						
	Subtotal	520	505	97.1%	15.2	4.8	B
WB	Left Turn						
	Through	175	191	109.0%	11.9	2.2	B
	Right Turn	90	78	87.1%	8.4	2.2	A
	Subtotal	265	269	101.6%	10.9	2.0	B
Total		1,925	1,842	95.7%	14.8	2.4	B

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	13	128.0%	16.3	10.8	B
	Through						
	Right Turn	180	168	93.3%	11.2	4.0	B
	Subtotal	190	181	95.2%	11.4	4.0	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	440	425	96.6%	18.2	5.5	B
	Right Turn	90	89	99.1%	16.4	5.8	B
	Subtotal	530	514	97.1%	17.9	5.5	B
WB	Left Turn	100	96	96.0%	39.1	12.6	D
	Through	255	254	99.8%	9.4	2.3	A
	Right Turn						
	Subtotal	355	350	98.7%	17.4	4.2	B
Total		1,075	1,046	97.3%	16.7	3.6	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	50	51	101.6%	13.4	2.5	B
	Through	10	14	144.0%	9.7	8.6	A
	Right Turn	60	60	99.3%	7.9	2.0	A
	Subtotal	120	125	104.0%	10.5	2.7	B
SB	Left Turn	5	5	96.0%	6.6	8.9	A
	Through	10	8	76.0%	8.4	7.5	A
	Right Turn	5	4	72.0%	2.2	2.4	A
	Subtotal	20	16	80.0%	7.9	5.1	A
EB	Left Turn	5	4	88.0%	6.3	8.5	A
	Through	515	492	95.6%	10.4	2.6	B
	Right Turn	100	96	95.6%	8.4	3.4	A
	Subtotal	620	592	95.5%	10.0	2.8	A
WB	Left Turn	10	8	84.0%	19.6	14.8	B
	Through	300	292	97.3%	12.7	6.0	B
	Right Turn	5	8	152.0%	13.8	10.7	B
	Subtotal	315	308	97.8%	13.0	6.6	B
Total		1,075	1,041	96.9%	11.1	2.8	B

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	20	14	68.0%	14.2	9.8	B
	Through						
	Right Turn	80	82	102.5%	11.1	3.0	B
	Subtotal	100	96	95.6%	11.5	3.3	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	400	376	93.9%	4.9	3.8	A
	Right Turn	180	180	99.8%	4.9	4.2	A
	Subtotal	580	555	95.7%	4.9	3.9	A
WB	Left Turn	5	5	104.0%	4.1	3.8	A
	Through	295	291	98.6%	1.8	0.9	A
	Right Turn						
	Subtotal	300	296	98.7%	1.9	0.9	A
Total		980	947	96.6%	4.6	2.7	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative No Project Conditions  
PM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	70	76	108.0%	29.1	3.5	C
	Through	1,070	1,048	97.9%	31.2	5.2	C
	Right Turn	140	136	97.4%	32.1	3.6	C
	Subtotal	1,280	1,260	98.4%	31.2	4.9	C
EB	Left Turn						
	Through	300	280	93.5%	57.5	44.0	E
	Right Turn	180	162	89.8%	53.4	40.1	D
	Subtotal	480	442	92.1%	56.0	42.6	E
WB	Left Turn	10	11	112.0%	26.7	13.6	C
	Through	160	160	99.8%	12.0	2.7	B
	Right Turn						
	Subtotal	170	171	100.5%	12.6	3.0	B
Total		1,930	1,873	97.0%	35.4	12.9	D

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
AM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	310	327	105.4%	13.8	1.0	B
	Right Turn	130	138	106.5%	11.3	3.8	B
	Subtotal	440	465	105.7%	13.0	1.5	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	215	208	96.7%	10.2	1.3	B
	Through	1,025	1,000	97.6%	11.7	0.7	B
	Right Turn						
	Subtotal	1,240	1,208	97.4%	11.4	0.7	B
Total		1,680	1,673	99.6%	11.9	0.7	B

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	275	271	98.6%	20.5	3.2	C
	Through	840	823	98.0%	18.1	1.7	B
	Right Turn						
	Subtotal	1,115	1,094	98.2%	18.7	1.9	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,005	970	96.5%	7.3	1.0	A
	Right Turn	200	200	100.0%	11.7	4.2	B
	Subtotal	1,205	1,170	97.1%	8.2	1.3	A
Total		2,320	2,264	97.6%	13.3	1.1	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
AM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	50	51	101.6%	11.5	2.9	B
	Subtotal	50	51	101.6%	11.5	2.9	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,155	1,122	97.2%	26.6	4.0	C
	Right Turn						
	Subtotal	1,155	1,122	97.2%	26.6	4.0	C
Total		1,205	1,173	97.4%	25.9	3.8	C

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	325	320	98.3%	11.7	2.2	B
	Subtotal	325	320	98.3%	11.7	2.2	B
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	830	808	97.3%	16.4	1.8	B
	Right Turn	150	161	107.2%	16.5	3.3	B
	Subtotal	980	968	98.8%	16.4	2.0	B
Total		1,305	1,288	98.7%	15.3	1.8	B

**SimTraffic Post-Processor**  
**Average Results from 10 Runs**  
**Volume and Delay by Movement**

**Capitol Annex**  
**Cumulative Plus Project Conditions**  
**AM Peak Hour**

**Intersection 5**                      **13th St/L St**                      **Side-street Stop**

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	5	9	176.0%	7.6	4.7	A
	Through	5	6	112.0%	11.9	16.8	B
	Right Turn						
	Subtotal	10	14	144.0%	10.3	8.9	B
SB	Left Turn						
	Through						
	Right Turn	90	79	87.6%	15.4	3.1	C
	Subtotal	90	79	87.6%	15.4	3.1	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	920	918	99.7%	5.2	0.5	A
	Right Turn	100	95	95.2%	5.0	1.0	A
	Subtotal	1,020	1,013	99.3%	5.2	0.5	A
<b>Total</b>		<b>1,120</b>	<b>1,106</b>	<b>98.8%</b>	<b>6.0</b>	<b>0.5</b>	<b>A</b>

**Intersection 6**                      **15th St/L St**                      **Signal**

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	780	772	99.0%	6.0	0.9	A
	Right Turn	180	177	98.2%	7.4	2.0	A
	Subtotal	960	949	98.9%	6.3	1.0	A
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	140	140	99.7%	9.9	1.7	A
	Through	920	916	99.6%	12.1	1.5	B
	Right Turn						
	Subtotal	1,060	1,056	99.6%	11.8	1.4	B
<b>Total</b>		<b>2,020</b>	<b>2,005</b>	<b>99.3%</b>	<b>9.2</b>	<b>1.2</b>	<b>A</b>

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
AM Peak Hour

Intersection 7                      10th St/Capitol Mall                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	10	10	104.0%	5.6	7.4	A
	Through	1,015	1,011	99.6%	1.6	0.1	A
	Right Turn						
	Subtotal	1,025	1,021	99.6%	1.6	0.1	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	100	84	83.6%	10.0	2.5	B
	Through						
	Right Turn						
	Subtotal	100	84	83.6%	10.0	2.5	B
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		1,125	1,105	98.2%	2.3	0.3	A

Intersection 8                      9th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	155	161	104.0%	15.3	1.7	B
	Through	400	408	102.0%	14.1	0.6	B
	Right Turn	10	9	88.0%	12.8	8.3	B
	Subtotal	565	578	102.3%	14.4	0.8	B
EB	Left Turn						
	Through	285	272	95.6%	18.2	1.0	B
	Right Turn	60	63	104.7%	15.2	2.3	B
	Subtotal	345	335	97.2%	17.6	1.2	B
WB	Left Turn	100	112	111.6%	14.6	2.9	B
	Through	270	254	94.1%	4.3	1.0	A
	Right Turn						
	Subtotal	370	366	98.8%	7.5	1.4	A
Total		1,280	1,279	99.9%	13.3	0.7	B



**SimTraffic Post-Processor**  
**Average Results from 10 Runs**  
**Volume and Delay by Movement**

**Capitol Annex**  
**Cumulative Plus Project Conditions**  
**AM Peak Hour**

**Intersection 9**                      **10th St/N St**                      **Signal**

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	280	281	100.3%	20.0	3.5	B
	Through	870	867	99.7%	16.1	1.8	B
	Right Turn	95	84	88.4%	8.9	1.4	A
	Subtotal	1,245	1,232	99.0%	16.5	2.0	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	80	76	94.5%	13.9	4.4	B
	Through	360	358	99.6%	11.7	2.2	B
	Right Turn						
	Subtotal	440	434	98.6%	12.1	2.3	B
WB	Left Turn						
	Through	90	83	92.4%	11.6	1.5	B
	Right Turn	75	77	102.4%	8.3	2.7	A
	Subtotal	165	160	97.0%	9.9	2.0	A
<b>Total</b>		<b>1,850</b>	<b>1,826</b>	<b>98.7%</b>	<b>14.9</b>	<b>1.5</b>	<b>B</b>

**Intersection 10**                      **11th St/N St**                      **Signal**

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	11	108.0%	11.1	8.7	B
	Through						
	Right Turn	210	207	98.5%	8.9	2.2	A
	Subtotal	220	218	98.9%	9.0	2.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	275	258	94.0%	13.5	2.9	B
	Right Turn	120	125	104.0%	12.6	2.6	B
	Subtotal	395	383	97.0%	13.2	2.8	B
WB	Left Turn	70	70	99.4%	25.3	5.3	C
	Through	175	171	97.6%	8.0	1.3	A
	Right Turn						
	Subtotal	245	240	98.1%	13.1	2.7	B
<b>Total</b>		<b>860</b>	<b>841</b>	<b>97.8%</b>	<b>12.2</b>	<b>1.8</b>	<b>B</b>

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
AM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	30	21	70.7%	15.1	5.2	B
	Through						
	Right Turn	70	78	111.4%	7.7	2.5	A
	Subtotal	100	99	99.2%	9.4	3.1	A
SB	Left Turn	10	11	112.0%	10.1	8.5	B
	Through	5	6	120.0%	8.4	9.8	A
	Right Turn	25	26	105.6%	6.0	1.7	A
	Subtotal	40	44	109.0%	8.3	2.5	A
EB	Left Turn						
	Through	385	367	95.4%	8.9	1.6	A
	Right Turn	100	97	96.8%	7.4	1.7	A
	Subtotal	485	464	95.7%	8.5	1.5	A
WB	Left Turn	10	7	68.0%	18.0	9.1	B
	Through	190	192	100.8%	10.4	1.8	B
	Right Turn						
	Subtotal	200	198	99.2%	10.8	1.9	B
Total		825	805	97.6%	9.2	1.3	A

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	8	80.0%	6.9	6.3	A
	Through						
	Right Turn	10	10	100.0%	5.9	4.2	A
	Subtotal	20	18	90.0%	6.5	4.0	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	275	266	96.6%	2.6	0.4	A
	Right Turn	190	186	97.7%	1.8	0.3	A
	Subtotal	465	451	97.0%	2.3	0.3	A
WB	Left Turn	30	26	88.0%	7.3	1.9	A
	Through	190	193	101.7%	1.7	0.5	A
	Right Turn						
	Subtotal	220	220	99.8%	2.4	0.6	A
Total		705	689	97.7%	2.4	0.2	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
AM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	30	26	88.0%	13.8	3.5	B
	Through	660	646	97.9%	14.2	0.8	B
	Right Turn	110	105	95.3%	14.2	1.5	B
	Subtotal	800	777	97.2%	14.1	0.9	B
EB	Left Turn						
	Through	195	189	97.0%	19.6	3.2	B
	Right Turn	90	90	100.4%	14.2	4.9	B
	Subtotal	285	280	98.1%	17.8	3.5	B
WB	Left Turn	10	9	88.0%	7.2	7.2	A
	Through	110	114	104.0%	11.6	2.5	B
	Right Turn						
	Subtotal	120	123	102.7%	11.4	2.2	B
Total		1,205	1,180	97.9%	14.8	0.8	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 1                      9th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	510	496	97.3%	39.6	24.3	D
	Right Turn	150	120	80.0%	116.0	45.3	F
	Subtotal	660	616	93.3%	54.3	23.6	D
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	360	258	71.7%	54.3	4.9	D
	Through	1,325	876	66.1%	79.4	8.6	E
	Right Turn						
	Subtotal	1,685	1,134	67.3%	73.7	7.5	E
Total		2,345	1,750	74.6%	66.9	9.8	E

Intersection 2                      10th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	210	202	96.4%	47.9	10.8	D
	Through	600	548	91.3%	19.1	1.7	B
	Right Turn						
	Subtotal	810	750	92.6%	26.9	3.5	C
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,425	978	68.6%	65.3	13.1	E
	Right Turn	200	150	74.8%	67.9	18.5	E
	Subtotal	1,625	1,127	69.4%	65.7	13.5	E
Total		2,435	1,878	77.1%	50.0	7.9	D

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 3                      11th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through						
	Right Turn	340	319	93.9%	36.1	13.7	D
	Subtotal	340	319	93.9%	36.1	13.7	D
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	1,285	936	72.8%	69.6	13.2	E
	Right Turn						
	Subtotal	1,285	936	72.8%	69.6	13.2	E
Total		1,625	1,255	77.2%	61.1	12.5	E

Intersection 4                      12th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	20	0	0.0%	0.0	0.0	A
	Through	5	0	0.0%	0.0	0.0	A
	Right Turn						
	Subtotal	25	0	0.0%	0.0	0.0	A
SB	Left Turn						
	Through	5	0	0.0%	0.0	0.0	A
	Right Turn	320	320	100.1%	42.3	16.1	D
	Subtotal	325	320	98.6%	42.3	16.1	D
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	5	0	0.0%	58.2	20.3	E
	Through	945	675	71.4%	128.6	31.7	F
	Right Turn	80	59	74.0%	122.6	40.4	F
	Subtotal	1,030	734	71.3%	128.2	31.9	F
Total		1,380	1,054	76.4%	99.6	24.5	F

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 5                      13th St/L St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	5	3	64.0%	110.1	122.2	F
	Through	5	8	152.0%	12.4	12.1	B
	Right Turn						
	Subtotal	10	11	108.0%	36.8	53.2	E
SB	Left Turn						
	Through						
	Right Turn	160	136	84.8%	63.3	45.0	F
	Subtotal	160	136	84.8%	63.3	45.0	F
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn						
	Through	865	685	79.2%	58.2	20.3	F
	Right Turn	20	16	80.0%	55.3	58.2	F
	Subtotal	885	701	79.2%	57.9	20.2	F
Total		1,055	848	80.3%	58.1	22.2	F

Intersection 6                      15th St/L St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn						
	Through	1,270	1,219	96.0%	20.4	2.7	C
	Right Turn	140	146	104.6%	23.8	6.7	C
	Subtotal	1,410	1,366	96.9%	20.8	2.9	C
EB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
WB	Left Turn	210	216	102.9%	29.7	5.6	C
	Through	715	688	96.3%	28.1	5.4	C
	Right Turn						
	Subtotal	925	904	97.8%	28.5	5.2	C
Total		2,335	2,270	97.2%	23.9	3.2	C

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 7                      10th St/Capitol Mall                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn	80	79	98.5%	3.6	0.7	A
	Through	780	742	95.1%	1.3	0.3	A
	Right Turn						
	Subtotal	860	820	95.4%	1.5	0.3	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	30	32	105.3%	8.2	1.8	A
	Through						
	Right Turn						
	Subtotal	30	32	105.3%	8.2	1.8	A
WB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
Total		890	852	95.7%	1.8	0.3	A

Intersection 8                      9th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	180	183	101.6%	18.2	1.9	B
	Through	780	733	94.0%	17.8	2.0	B
	Right Turn	10	10	96.0%	11.9	8.5	B
	Subtotal	970	926	95.4%	17.9	1.9	B
EB	Left Turn						
	Through	340	331	97.3%	11.9	1.7	B
	Right Turn	80	75	94.0%	10.8	3.5	B
	Subtotal	420	406	96.7%	11.7	1.9	B
WB	Left Turn	140	124	88.3%	23.9	7.1	C
	Through	395	364	92.2%	9.7	3.2	A
	Right Turn						
	Subtotal	535	488	91.1%	13.4	4.0	B
Total		1,925	1,819	94.5%	15.4	1.1	B

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 9                      10th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	360	318	88.4%	18.3	1.9	B
	Through	680	612	89.9%	12.4	1.8	B
	Right Turn	100	98	98.4%	9.6	2.7	A
	Subtotal	1,140	1,028	90.2%	14.0	1.8	B
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn	90	102	113.8%	24.3	7.4	C
	Through	430	418	97.1%	17.0	4.6	B
	Right Turn						
	Subtotal	520	520	100.0%	18.4	4.6	B
WB	Left Turn						
	Through	175	171	97.8%	11.6	2.7	B
	Right Turn	90	108	119.6%	8.5	1.9	A
	Subtotal	265	279	105.2%	10.4	2.4	B
Total		1,925	1,827	94.9%	14.7	2.1	B

Intersection 10                      11th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	10	6	64.0%	14.9	16.8	B
	Through						
	Right Turn	180	188	104.4%	9.6	2.0	A
	Subtotal	190	194	102.3%	9.9	2.0	A
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	440	412	93.5%	11.5	1.6	B
	Right Turn	90	88	97.8%	10.0	2.3	A
	Subtotal	530	500	94.3%	11.2	1.6	B
WB	Left Turn	100	94	94.0%	29.9	13.4	C
	Through	255	290	113.7%	11.0	2.8	B
	Right Turn						
	Subtotal	355	384	108.2%	15.6	4.8	B
Total		1,075	1,078	100.3%	12.5	2.1	B



SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 11                      12th St/N St                      Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	50	49	97.6%	13.4	3.6	B
	Through	10	0	0.0%	0.0	0.0	A
	Right Turn	60	62	104.0%	9.7	2.2	A
	Subtotal	120	111	92.7%	11.3	2.1	B
SB	Left Turn	5	12	232.0%	15.6	10.1	B
	Through	10	16	164.0%	8.1	3.1	A
	Right Turn	5	40	792.0%	5.8	1.8	A
	Subtotal	20	68	338.0%	8.0	1.1	A
EB	Left Turn	5	0	0.0%	0.0	0.0	A
	Through	515	500	97.0%	10.2	1.9	B
	Right Turn	100	97	96.8%	8.4	2.1	A
	Subtotal	620	596	96.2%	9.9	1.8	A
WB	Left Turn	10	11	112.0%	30.0	24.0	C
	Through	300	300	99.9%	17.3	12.9	B
	Right Turn	5	0	0.0%	2.6	2.9	A
	Subtotal	315	311	98.7%	17.7	13.2	B
Total		1,075	1,086	101.0%	12.3	4.4	B

Intersection 12                      13th St/N St                      Side-street Stop

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		LOS
			Average	Percent	Average	Std. Dev.	
NB	Left Turn	20	18	92.0%	21.7	16.8	C
	Through						
	Right Turn	80	85	106.0%	13.5	10.2	B
	Subtotal	100	103	103.2%	15.1	11.8	C
SB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
EB	Left Turn						
	Through	400	391	97.7%	4.4	0.9	A
	Right Turn	180	178	98.9%	3.7	1.0	A
	Subtotal	580	569	98.1%	4.2	0.9	A
WB	Left Turn	5	4	80.0%	10.1	11.6	B
	Through	295	294	99.7%	2.6	2.9	A
	Right Turn						
	Subtotal	300	298	99.3%	2.8	2.9	A
Total		980	970	99.0%	5.0	2.3	A

SimTraffic Post-Processor  
Average Results from 10 Runs  
Volume and Delay by Movement

Capitol Annex  
Cumulative Plus Project Conditions  
PM Peak Hour

Intersection 13

15th St/N St

Signal

Direction	Movement	Demand Volume (vph)	Served Volume (vph)		Total Delay (sec/veh)		
			Average	Percent	Average	Std. Dev.	LOS
NB	Left Turn						
	Through						
	Right Turn						
	Subtotal						
SB	Left Turn	70	68	96.6%	26.1	3.9	C
	Through	1,070	1,028	96.1%	27.6	2.6	C
	Right Turn	140	142	101.1%	28.3	3.0	C
	Subtotal	1,280	1,238	96.7%	27.6	2.7	C
EB	Left Turn						
	Through	300	280	93.5%	49.7	25.7	D
	Right Turn	180	175	97.3%	45.8	27.4	D
	Subtotal	480	456	94.9%	48.3	26.3	D
WB	Left Turn	10	7	72.0%	16.4	16.6	B
	Through	160	154	96.3%	11.4	4.3	B
	Right Turn						
	Subtotal	170	161	94.8%	11.7	4.4	B
Total		1,930	1,854	96.1%	31.5	7.1	C