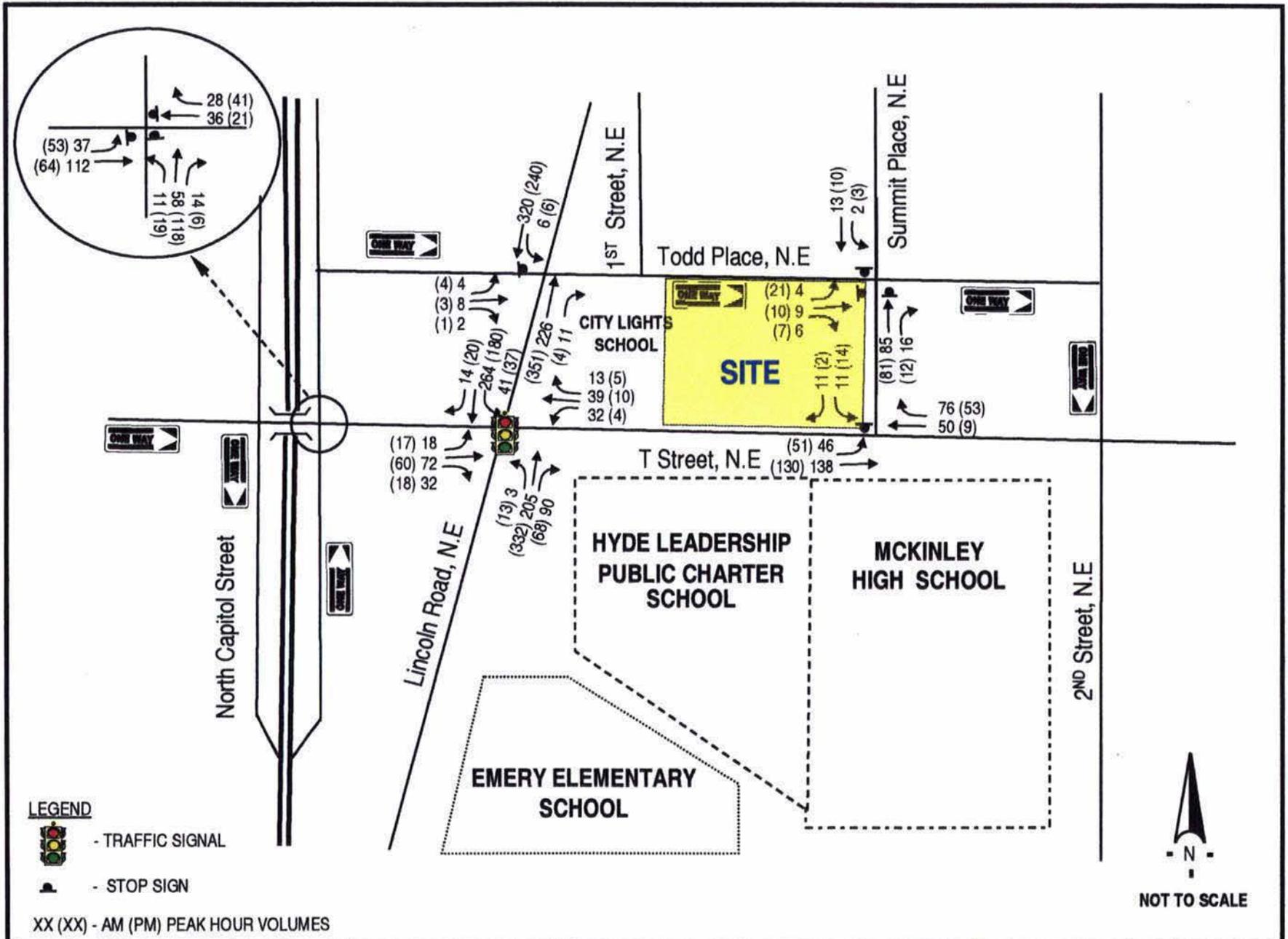


APPENDIX

E

2008 'BASE' TRAFFIC SITUATION



APPENDIX

F

CAPACITY ANALYSIS WORKSHEETS -
2008 BACKGROUND TRAFFIC SITUATION

ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	T ST. @ NORTH CAPITOL RAMP
Agency/Co.	O.R. GEORGE & ASSOCIATES	Jurisdiction	D.C
Date Performed	10/18/2005	Analysis Year	Background 2008
Analysis Time Period	AM PEAK		

Project ID SAINT MARTINS PUD

East/West Street: T STREET, N.E

North/South Street: NORTH CAPITOL STREET RAMP

Volume Adjustments and Site Characteristics

Approach	Eastbound			Westbound		
	L	T	R	L	T	R
Movement						
Volume	37	112	0	0	36	28
%Thrus Left Lane	50			50		

Approach	Northbound			Southbound		
	L	T	R	L	T	R
Movement						
Volume	11	58	14	0	0	0
%Thrus Left Lane	50			50		

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LT		T	R	LTR			
PHF	0.72		0.73	0.73	0.83			
Flow Rate	206		49	38	98			
% Heavy Vehicles	0		0	0	0			
No. Lanes	1		2		1		0	
Geometry Group	3a		5		1			
Duration, T	0.25							

Saturation Headway Adjustment Worksheet

Prop. Left-Turns	0.2		0.0	0.0	0.1			
Prop. Right-Turns	0.0		0.0	1.0	0.2			
Prop. Heavy Vehicle								
hLT-adj	0.2	0.2	0.5	0.5	0.2	0.2		
hRT-adj	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6		
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7		
hadj, computed	4.39		4.39	4.39	4.39			

Departure Headway and Service Time

hd, initial value	3.20		3.20	3.20	3.20			
x, initial	0.18		0.04	0.03	0.09			
hd, final value	4.39		4.39	4.39	4.39			
x, final value	0.25		0.07	0.04	0.12			
Move-up time, m	2.0		2.3		2.0			
Service Time	2.4		2.4		2.4		2.4	

Capacity and Level of Service

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	456		299	288	348			
Delay	8.85		7.95	7.09	8.10			
LOS	A							

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ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	T ST. @ NORTH CAPITOL RAMP
Agency/Co.	O.R. GEORGE & ASSOCIATES	Jurisdiction	D.C
Date Performed	10/18/2005	Analysis Year	Background 2008
Analysis Time Period	PM PEAK		

Project ID SAINT MARTINS PUD	
East/West Street: T STREET, N.E	North/South Street: NORTH CAPITOL STREET RAMP

Volume Adjustments and Site Characteristics								
Approach	Eastbound				Westbound			
	L	T	R		L	T	R	
Movement								
Volume	53	64	0		0	21	41	
%Thrus Left Lane	50				50			
Approach	Northbound				Southbound			
	L	T	R		L	T	R	
Movement								
Volume	19	118	6		0	0	0	
%Thrus Left Lane	50				50			
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LT		T		LTR			
PHF	0.91		0.78	0.78	0.94			
Flow Rate	128		26	52	151			
% Heavy Vehicles	0		0	0	0			
No. Lanes	1		2		1		0	
Geometry Group	3a		5		1			
Duration, T	0.25							

Saturation Headway Adjustment Worksheet								
Prop. Left-Turns	0.5		0.0	0.0	0.1			
Prop. Right-Turns	0.0		0.0	1.0	0.0			
Prop. Heavy Vehicle								
hLT-adj	0.2	0.2	0.5	0.5	0.2	0.2		
hRT-adj	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6		
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7		
hadj, computed	4.54		4.54	4.54	4.54			

Departure Headway and Service Time								
hd, initial value	3.20		3.20	3.20	3.20			
x, initial	0.11		0.02	0.05	0.13			
hd, final value	4.54		4.54	4.54	4.54			
x, final value	0.16		0.04	0.06	0.18			
Move-up time, m	2.0		2.3		2.0			
Service Time	2.5		2.5		2.5		2.5	

Capacity and Level of Service								
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	378		276	302	401			
Delay	8.41		7.85	7.25	8.35			
LOS	A		A	A	A			
Approach: Delay	8.41		7.45		8.35			
LOS	A		A		A			
Intersection Delay	8.18							
Intersection LOS	A							

TWO-WAY STOP CONTROL SUMMARY								
General Information				Site Information				
Analyst	ORGA-IJB			Intersection	T ST. @ SUMMIT PL, N.E			
Agency/Co.	O.R. GEORGE & ASSOCIATES			Jurisdiction	D.C.			
Date Performed	10/18/2005			Analysis Year	Background 2008			
Analysis Time Period	AM PEAK							
Project Description SAINT MARTINS PUD								
East/West Street: T STREET, N.E				North/South Street: SUMMIT PLACE, N.E				
Intersection Orientation: East-West				Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	46	138	0	0	50	76		
Peak-hour factor, PHF	0.64	0.64	1.00	1.00	0.79	0.79		
Hourly Flow Rate (veh/h)	71	215	0	0	63	96		
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--		
Median type	Undivided							
RT Channelized?			0				0	
Lanes	0	1	0	0	1	0		
Configuration	LT						TR	
Upstream Signal	0			0				
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	0	0	11	0	11		
Peak-hour factor, PHF	1.00	1.00	1.00	0.69	1.00	0.69		
Hourly Flow Rate (veh/h)	0	0	0	15	0	15		
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0		
Percent grade (%)	0			0				
Flared approach	N			N				
Storage	0			0				
RT Channelized?	0			0				
Lanes	0	0	0	0	0	0		
Configuration				LR				
Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT					LR		
Volume, v (vph)	71					30		
Capacity, c _m (vph)	1433					679		
v/c ratio	0.05					0.04		
Queue length (95%)	0.16					0.14		
Control Delay (s/veh)	7.6					10.5		
LOS	A					B		
Approach delay (s/veh)	--					10.5		
Approach LOS	--					B		

TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	T ST. @ SUMMIT PL, N.E
Agency/Co.	O.R. GEORGE & ASSOCIATES	Jurisdiction	D.C.
Date Performed	10/18/2005	Analysis Year	Background 2008
Analysis Time Period	PM PEAK		
Project Description SAINT MARTINS PUD			
East/West Street: T STREET, N.E		North/South Street: SUMMIT PLACE, N.E	
Intersection Orientation: East-West		Study Period (hrs): 0.25	

Vehicle Volumes and Adjustments						
Major Street	Eastbound			Westbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume (veh/h)	51	130	0	0	9	53
Peak-hour factor, PHF	0.70	0.70	1.00	1.00	0.91	0.91
Hourly Flow Rate (veh/h)	72	185	0	0	9	58
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--
Median type	Undivided					
RT Channelized?			0			0
Lanes	0	1	0	0	1	0
Configuration	LT					TR
Upstream Signal		0			0	
Minor Street	Northbound			Southbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume (veh/h)	0	0	0	14	0	2
Peak-hour factor, PHF	1.00	1.00	1.00	0.67	1.00	0.67
Hourly Flow Rate (veh/h)	0	0	0	20	0	2
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0
Percent grade (%)	0			0		
Flared approach		N			N	
Storage		0			0	
RT Channelized?			0			0
Lanes	0	0	0	0	0	0
Configuration					LR	

Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
Volume, v (vph)	72						22	
Capacity, c _m (vph)	1547						631	
v/c ratio	0.05						0.03	
Queue length (95%)	0.15						0.11	
Control Delay (s/veh)	7.4						10.9	
LOS	A						B	
Approach delay (s/veh)	--	--					10.9	
Approach LOS	--	--					B	

SHORT REPORT

General Information				Site Information			
Analyst	ORGA-IJB			Intersection	T ST. @ LINCOLN RD, N.E		
Agency or Co.	O.R.GEORGE & ASSOCIATES			Area Type	All other areas		
Date Performed	10/18/2005			Jurisdiction	D.C		
Time Period	AM PEAK			Analysis Year	2008 Background		

Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Num. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Lane group		LTR			LTR			LTR			LTR	
Volume (vph)	18	72	32	32	39	13	3	205	90	41	264	14
% Heavy veh	0	0	0	0	0	0	0	0	0	0	0	0
PHF	0.82	0.82	0.82	0.58	0.58	0.58	0.80	0.80	0.80	0.88	0.88	0.88
Actuated (P/A)	P	P	P	P	P	P	P	P	P	P	P	P
Startup lost time		2.0			2.0			2.0			2.0	
Ext. eff. green		2.0			2.0			2.0			2.0	
Arrival type		3			3			3			3	
Unit Extension		3.0			3.0			3.0			3.0	
Ped/Bike/RTOR Volume	0		0	0		0	0		0	0		0
Lane Width		12.0			12.0			12.0			12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/hr												
Bus stops/hr		0			0			0			0	
Unit Extension		3.0			3.0			3.0			3.0	
Phasing	EW Perm	02	03	04	NS Perm	06	07	08				
Timing	G = 25.0	G =	G =	G =	G = 65.0	G =	G =	G =				
	Y = 5	Y =	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25						Cycle Length C = 100.0						

Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	Adj. flow rate		149			144			372			363
Lane group cap.		433			393			1181			1125	
v/c ratio		0.34			0.37			0.31			0.32	
Green ratio		0.25			0.25			0.65			0.65	
Unif. delay d1		30.8			31.0			7.7			7.8	
Delay factor k		0.50			0.50			0.50			0.50	
Increm. delay d2		2.2			2.6			0.7			0.8	
PF factor		1.000			1.000			1.000			1.000	
Control delay		32.9			33.6			8.4			8.5	
Lane group LOS		C			C			A			A	
Apprch. delay		32.9			33.6			8.4			8.5	
Approach LOS		C			C			A			A	
Intersec. delay		15.5		Intersection LOS								B

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SHORT REPORT

General Information				Site Information			
Analyst	ORGA-IJB			Intersection	T ST. @ LINCOLN RD, N.E		
Agency or Co.	O.R. GEORGE & ASSOCIATES			Area Type	All other areas		
Date Performed	10/18/2005			Jurisdiction	D.C		
Time Period	PM PEAK			Analysis Year	Background 2008		

Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Num. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Lane group	LTR			LTR			LTR			LTR		
Volume (vph)	17	60	18	4	10	5	13	332	68	37	180	20
% Heavy veh	0	0	0	0	0	0	0	0	0	0	0	0
PHF	0.75	0.75	0.75	0.77	0.77	0.77	0.94	0.94	0.94	0.99	0.99	0.99
Actuated (P/A)	P	P	P	P	P	P	P	P	P	P	P	P
Startup lost time	2.0			2.0			2.0			2.0		
Ext. eff. green	2.0			2.0			2.0			2.0		
Arrival type	3			3			3			3		
Unit Extension	3.0			3.0			3.0			3.0		
Ped/Bike/RTOR Volume	0		0	0		0	0		0	0		0
Lane Width	12.0			12.0			12.0			12.0		
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/hr												
Bus stops/hr	0			0			0			0		
Unit Extension	3.0			3.0			3.0			3.0		
Phasing	EW Perm	02	03	04	NS Perm	06	07	08				
Timing	G = 25.0	G =	G =	G =	G = 65.0	G =	G =	G =				
	Y = 5	Y =	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25						Cycle Length C = 100.0						

Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	Adj. flow rate	127			24			439			239	
Lane group cap.	441			439			1195			1098		
v/c ratio	0.29			0.05			0.37			0.22		
Green ratio	0.25			0.25			0.65			0.65		
Unif. delay d1	30.3			28.5			8.0			7.1		
Delay factor k	0.50			0.50			0.50			0.50		
Increm. delay d2	1.6			0.2			0.9			0.5		
PF factor	1.000			1.000			1.000			1.000		
Control delay	31.9			28.8			8.9			7.6		
Lane group LOS	C			C			A			A		
Apprch. delay	31.9			28.8			8.9			7.6		
Approach LOS	C			C			A			A		
Intersec. delay	12.6			Intersection LOS						B		

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TWO-WAY STOP CONTROL SUMMARY

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	TODD PL. @ LINCOLN RD, N.E
Agency/Co.	O.R. GEORGE & ASSOCIATES	Jurisdiction	D.C.
Date Performed	10/18/2005	Analysis Year	Background 2008
Analysis Time Period	AM PEAK		
Project Description SAINT MARTINS PUD			
East/West Street: TODD PLACE, N.E		North/South Street: LINCOLN ROAD, N.E	
Intersection Orientation: North-South		Study Period (hrs): 0.25	

Vehicle Volumes and Adjustments

Major Street	Northbound			Southbound		
Movement	1	2	3	4	5	6
	L	T	R	L	T	R
Volume	0	226	11	6	320	0
Peak-Hour Factor, PHF	1.00	0.75	0.75	0.83	0.83	0.67
Hourly Flow Rate, HFR	0	301	14	7	385	0
Percent Heavy Vehicles	0	--	--	0	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Westbound			Eastbound		
Movement	7	8	9	10	11	12
	L	T	R	L	T	R
Volume	0	0	0	4	8	2
Peak-Hour Factor, PHF	1.00	0.91	0.91	0.88	0.88	0.88
Hourly Flow Rate, HFR	0	0	0	4	9	2
Percent Heavy Vehicles	0	0	0	0	0	0
Percent Grade (%)	0			0		
Flared Approach	N			N		
Storage	0			0		
RT Channelized			0			0
Lanes	0	0	0	0	1	0
Configuration				LTR		

Delay, Queue Length, and Level of Service

Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT					LTR	
v (vph)		7					15	
C (m) (vph)		1257					393	
v/c		0.01					0.04	
95% queue length		0.02					0.12	
Control Delay		7.9					14.5	
LOS		A					B	
Approach Delay	--	--					14.5	
Approach LOS	--	--					B	

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Version 4

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TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information					
Analyst	ORGA-IJB		Intersection	TODD PL. @ LINCOLN RD, N.E				
Agency/Co.	O.R. GEORGE & ASSOCIATES		Jurisdiction	D.C.				
Date Performed	10/18/2005		Analysis Year	Background 2008				
Analysis Time Period	PM PEAK							
Project Description SAINT MARTINS PUD								
East/West Street: TODD PLACE, N.E			North/South Street: LINCOLN ROAD, N.E					
Intersection Orientation: North-South			Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments								
Major Street	Northbound			Southbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume	0	351	4	6	240	0		
Peak-Hour Factor, PHF	1.00	0.89	0.89	0.98	0.98	0.67		
Hourly Flow Rate, HFR	0	394	4	6	244	0		
Percent Heavy Vehicles	0	--	--	0	--	--		
Median Type	Undivided							
RT Channelized			0			0		
Lanes	0	1	0	0	1	0		
Configuration			TR	LT				
Upstream Signal		0			0			
Minor Street	Westbound			Eastbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume	0	0	0	4	3	1		
Peak-Hour Factor, PHF	1.00	0.91	0.91	0.67	0.67	0.67		
Hourly Flow Rate, HFR	0	0	0	5	4	1		
Percent Heavy Vehicles	0	0	0	0	0	0		
Percent Grade (%)	0			0				
Flared Approach		N			N			
Storage		0			0			
RT Channelized			0			0		
Lanes	0	0	0	0	1	0		
Configuration					LTR			
Delay, Queue Length, and Level of Service								
Approach	NB	SB	Westbound			Eastbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration		LT					LTR	
v (vph)		6					10	
C (m) (vph)		1172					433	
v/c		0.01					0.02	
95% queue length		0.02					0.07	
Control Delay		8.1					13.5	
LOS		A					B	
Approach Delay	--	--					13.5	
Approach LOS	--	--					B	

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ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	Todd Place @ Summit Place
Agency/Co.	O.R.GEORGE & ASSOCAITES	Jurisdiction	D.C.
Date Performed	10/18/2005	Analysis Year	Background 2008
Analysis Time Period	AM PEAK		

Project ID SAINT MARTINS PUD	
East/West Street: TODD PLACE	North/South Street: SUMMIT PLACE

Volume Adjustments and Site Characteristics

Approach	Eastbound			Westbound		
	L	T	R	L	T	R
Movement						
Volume	4	9	6	0	0	0
%Thrus Left Lane	50			50		

Approach	Northbound			Southbound		
	L	T	R	L	T	R
Movement						
Volume	0	85	16	2	13	0
%Thrus Left Lane	50			50		

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				TR		LT	
PHF	0.59				0.50		0.71	
Flow Rate	31				202		20	
% Heavy Vehicles	0				0		0	
No. Lanes	1		0		1		1	
Geometry Group	1				1		1	
Duration, T	0.25							

Saturation Headway Adjustment Worksheet

Prop. Left-Turns	0.2				0.0		0.1	
Prop. Right-Turns	0.3				0.2		0.0	
Prop. Heavy Vehicle								
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7
hadj, computed	4.21				4.21		4.21	

Departure Headway and Service Time

hd, initial value	3.20				3.20		3.20	
x, initial	0.03				0.18		0.02	
hd, final value	4.21				4.21		4.21	
x, final value	0.04				0.22		0.02	
Move-up time, m	2.0			2.0			2.0	
Service Time	2.2		2.2		2.2		2.2	

Capacity and Level of Service

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	281				452		270	
Delay	7.36				7.98		7.27	
LOS	A				A		A	
Approach: Delay	7.36			7.98			7.27	
LOS	A			A			A	
Intersection Delay	7.85							
Intersection LOS	A							

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ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst Agency/Co. Date Performed Analysis Time Period	ORGA-IJB O.R. GEORGE & ASSOCAITES 10/18/2005 PM PEAK	Intersection Jurisdiction Analysis Year	Todd Place @ Summit Place D.C. Background 2008

Project ID SAINT MARTINS PUD	North/South Street: SUMMIT PLACE
East/West Street: TODD PLACE	

Volume Adjustments and Site Characteristics

Approach	Eastbound			Westbound		
	L	T	R	L	T	R
Movement						
Volume	21	10	7	0	0	0
%Thrus Left Lane	50			50		

Approach	Northbound			Southbound		
	L	T	R	L	T	R
Movement						
Volume	0	81	12	3	13	0
%Thrus Left Lane	50			50		

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				TR		LT	
PHF	0.59				0.50		0.71	
Flow Rate	62				186		22	
% Heavy Vehicles	0				0		0	
No. Lanes	1		0		1		1	
Geometry Group	1				1		1	
Duration, T	0.25							

Saturation Headway Adjustment Worksheet

Prop. Left-Turns	0.6				0.0		0.2	
Prop. Right-Turns	0.2				0.1		0.0	
Prop. Heavy Vehicle								
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7
hadj, computed	4.35				4.35		4.35	

Departure Headway and Service Time

hd, initial value	3.20				3.20		3.20	
x, initial	0.06				0.17		0.02	
hd, final value	4.35				4.35		4.35	
x, final value	0.07				0.21		0.03	
Move-up time, m	2.0				2.0		2.0	
Service Time	2.3		2.3		2.3		2.3	

Capacity and Level of Service

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	312				436		272	
Delay	7.70				8.03		7.37	
LOS	A				A		A	
Approach: Delay	7.70				8.03		7.37	
LOS	A				A		A	
Intersection Delay	7.90							
Intersection LOS	A							

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ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	Todd Place @ Summit Place
Agency/Co.	O.R. GEORGE & ASSOCIATES	Jurisdiction	D.C.
Date Performed	10/18/2005	Analysis Year	Background 2008
Analysis Time Period	PM PEAK		

Project ID SAINT MARTINS PUD	
East/West Street: TODD PLACE	North/South Street: SUMMIT PLACE

Volume Adjustments and Site Characteristics								
Approach	Eastbound			Westbound				
	L	T	R	L	T	R		
Movement								
Volume	21	10	7	0	0	0		
%Thrus Left Lane	50			50				
Approach	Northbound			Southbound				
	L	T	R	L	T	R		
Movement								
Volume	0	81	12	3	13	0		
%Thrus Left Lane	50			50				
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				TR		LT	
PHF	0.59				0.50		0.71	
Flow Rate	62				186		22	
% Heavy Vehicles	0				0		0	
No. Lanes	1		0		1		1	
Geometry Group	1				1		1	
Duration, T					0.25			

Saturation Headway Adjustment Worksheet							
Prop. Left-Turns	0.6				0.0		0.2
Prop. Right-Turns	0.2				0.1		0.0
Prop. Heavy Vehicle							
hLT-adj	0.2	0.2			0.2	0.2	0.2
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6
hHV-adj	1.7	1.7			1.7	1.7	1.7
hadj, computed	4.35				4.35		4.35

Departure Headway and Service Time								
hd, initial value	3.20				3.20		3.20	
x, initial	0.06				0.17		0.02	
hd, final value	4.35				4.35		4.35	
x, final value	0.07				0.21		0.03	
Move-up time, m	2.0				2.0		2.0	
Service Time	2.3		2.3		2.3		2.3	

Capacity and Level of Service								
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	312				436		272	
Delay	7.70				8.03		7.37	
LOS	A				A		A	
Approach: Delay	7.70				8.03		7.37	
LOS	A				A		A	
Intersection Delay					7.90			
Intersection LOS					A			

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APPENDIX

G

CAPACITY ANALYSIS WORKSHEETS
2008 TOTAL TRAFFIC SITUATION

ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	T ST. @ NORTH CAPITOL RAMP
Agency/Co.	O.R. GEORGE & ASSOCIATES	Jurisdiction	D.C
Date Performed	10/18/2005	Analysis Year	Future 2008
Analysis Time Period	AM PEAK		

Project ID SAINT MARTINS PUD	
East/West Street: T STREET, N.E	North/South Street: NORTH CAPITOL STREET RAMP

Volume Adjustments and Site Characteristics								
Approach	Eastbound			Westbound				
Movement	L	T	R	L	T	R		
Volume	37	115	0	0	36	36		
%Thrus Left Lane	50			50				
Approach	Northbound			Southbound				
Movement	L	T	R	L	T	R		
Volume	11	58	14	0	0	0		
%Thrus Left Lane	50			50				
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LT		T	R	LTR			
PHF	0.72		0.73	0.73	0.83			
Flow Rate	210		49	49	98			
% Heavy Vehicles	0		0	0	0			
No. Lanes	1		2		1		0	
Geometry Group	3a		5		1			
Duration, T	0.25							

Saturation Headway Adjustment Worksheet							
Prop. Left-Turns	0.2		0.0	0.0	0.1		
Prop. Right-Turns	0.0		0.0	1.0	0.2		
Prop. Heavy Vehicle							
hLT-adj	0.2	0.2	0.5	0.5	0.2	0.2	
hRT-adj	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6	
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7	
hadj, computed	4.40		4.40	4.40	4.40		

Departure Headway and Service Time							
hd, initial value	3.20		3.20	3.20	3.20		
x, initial	0.19		0.04	0.04	0.09		
hd, final value	4.40		4.40	4.40	4.40		
x, final value	0.26		0.07	0.06	0.12		
Move-up time, m	2.0		2.3		2.0		
Service Time	2.4		2.4		2.4		2.4

Capacity and Level of Service								
	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	460		299	299	348			
Delay	8.91		7.95	7.15	8.14			
LOS	A		A	A	A			
Approach: Delay	8.91		7.55		8.14			
LOS	A		A		A			
Intersection Delay	8.40							
Intersection LOS	A							

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ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst Agency/Co. Date Performed Analysis Time Period	ORGA-IJB O.R.GEORGE & ASSOCIATES 10/18/2005 PM PEAK	Intersection Jurisdiction Analysis Year	T ST. @ NORTH CAPITOL RAMP D.C Future 2008

Project ID SAINT MARTINS PUD

East/West Street: T STREET, N.E

North/South Street: NORTH CAPITOL STREET RAMP

Volume Adjustments and Site Characteristics

Approach	Eastbound			Westbound		
	L	T	R	L	T	R
Movement						
Volume	53	72	0	0	21	47
%Thrus Left Lane	50			50		

Approach	Northbound			Southbound		
	L	T	R	L	T	R
Movement						
Volume	19	118	6	0	0	0
%Thrus Left Lane	50			50		

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LT		T	R	LTR			
PHF	0.91		0.78	0.78	0.94			
Flow Rate	137		26	60	151			
% Heavy Vehicles	0		0	0	0			
No. Lanes	1		2		1		0	
Geometry Group	3a		5		1			
Duration, T	0.25							

Saturation Headway Adjustment Worksheet

Prop. Left-Turns	0.4		0.0	0.0	0.1			
Prop. Right-Turns	0.0		0.0	1.0	0.0			
Prop. Heavy Vehicle								
hLT-adj	0.2	0.2	0.5	0.5	0.2	0.2		
hRT-adj	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6		
hHV-adj	1.7	1.7	1.7	1.7	1.7	1.7		
hadj, computed	4.55		4.55	4.55	4.55			

Departure Headway and Service Time

hd, initial value	3.20		3.20	3.20	3.20			
x, initial	0.12		0.02	0.05	0.13			
hd, final value	4.55		4.55	4.55	4.55			
x, final value	0.17		0.04	0.07	0.18			
Move-up time, m	2.0		2.3		2.0			
Service Time	2.5		2.5		2.5		2.5	

Capacity and Level of Service

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	387		276	310	401			
Delay	8.50		7.87	7.31	8.41			
LOS	A		A	A	A			
Approach: Delay	8.50		7.48		8.41			
Approach: LOS	A		A		A			
Intersection Delay	8.23							
Intersection LOS	A							

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TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information					
Analyst	ORGA-IJB		Intersection	T ST. @ SUMMIT PL, N.E				
Agency/Co.	O.R. GEORGE & ASSOCIATES		Jurisdiction	D.C.				
Date Performed	10/18/2005		Analysis Year	Background 2008				
Analysis Time Period	AM PEAK							
Project Description SAINT MARTINS PUD								
East/West Street: T STREET, N.E			North/South Street: SUMMIT PLACE, N.E					
Intersection Orientation: East-West			Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	49	141	0	0	51	76		
Peak-hour factor, PHF	0.64	0.64	1.00	1.00	0.79	0.79		
Hourly Flow Rate (veh/h)	76	220	0	0	64	96		
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--		
Median type	Undivided							
RT Channelized?			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	0	0	11	0	12		
Peak-hour factor, PHF	1.00	1.00	1.00	0.69	1.00	0.69		
Hourly Flow Rate (veh/h)	0	0	0	15	0	17		
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0		
Percent grade (%)	0			0				
Flared approach		N			N			
Storage		0			0			
RT Channelized?			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
Volume, v (vph)	76						32	
Capacity, c _m (vph)	1432						681	
v/c ratio	0.05						0.05	
Queue length (95%)	0.17						0.15	
Control Delay (s/veh)	7.7						10.5	
LOS	A						B	
Approach delay (s/veh)	--	--					10.5	
Approach LOS	--	--					B	

TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information					
Analyst	ORGA-IJB		Intersection	T ST. @ SUMMIT PL, N.E				
Agency/Co.	O.R. GEORGE & ASSOCIATES		Jurisdiction	D.C.				
Date Performed	10/18/2005		Analysis Year	Future 2008				
Analysis Time Period	PM PEAK							
Project Description SAINT MARTINS PUD								
East/West Street: T STREET, N.E			North/South Street: SUMMIT PLACE, N.E					
Intersection Orientation: East-West			Study Period (hrs): 0.25					
Vehicle Volumes and Adjustments								
Major Street	Eastbound			Westbound				
Movement	1	2	3	4	5	6		
	L	T	R	L	T	R		
Volume (veh/h)	53	132	0	0	12	53		
Peak-hour factor, PHF	0.65	0.65	1.00	1.00	0.85	0.85		
Hourly Flow Rate (veh/h)	81	203	0	0	14	62		
Proportion of heavy vehicles, P _{HV}	0	--	--	0	--	--		
Median type	Undivided							
RT Channelized?			0			0		
Lanes	0	1	0	0	1	0		
Configuration	LT					TR		
Upstream Signal		0			0			
Minor Street	Northbound			Southbound				
Movement	7	8	9	10	11	12		
	L	T	R	L	T	R		
Volume (veh/h)	0	0	0	14	0	5		
Peak-hour factor, PHF	1.00	1.00	1.00	0.60	1.00	0.60		
Hourly Flow Rate (veh/h)	0	0	0	23	0	8		
Proportion of heavy vehicles, P _{HV}	0	0	0	0	0	0		
Percent grade (%)	0			0				
Flared approach	N			N				
Storage	0			0				
RT Channelized?			0			0		
Lanes	0	0	0	0	0	0		
Configuration					LR			
Control Delay, Queue Length, Level of Service								
Approach	EB	WB	Northbound			Southbound		
Movement	1	4	7	8	9	10	11	12
Lane Configuration	LT						LR	
Volume, v (vph)	81						31	
Capacity, c _m (vph)	1536						644	
v/c ratio	0.05						0.05	
Queue length (95%)	0.17						0.15	
Control Delay (s/veh)	7.5						10.9	
LOS	A						B	
Approach delay (s/veh)	--	--					10.9	
Approach LOS	--	--					B	

SHORT REPORT

General Information				Site Information			
Analyst	ORGA-IJB			Intersection	T ST. @ LINCOLN RD, N.E		
Agency or Co.	O.R. GEORGE & ASSOCIATES			Area Type	All other areas		
Date Performed	10/18/2005			Jurisdiction	D.C		
Time Period	AM PEAK			Analysis Year	2008 Future		

Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Num. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Lane group	LTR			LTR			LTR			LTR		
Volume (vph)	18	75	32	48	47	15	3	205	96	42	264	14
% Heavy veh	0	0	0	0	0	0	0	0	0	0	0	0
PHF	0.82	0.82	0.82	0.58	0.58	0.58	0.80	0.80	0.80	0.88	0.88	0.88
Actuated (P/A)	P	P	P	P	P	P	P	P	P	P	P	P
Startup lost time	2.0			2.0			2.0			2.0		
Ext. eff. green	2.0			2.0			2.0			2.0		
Arrival type	3			3			3			3		
Unit Extension	3.0			3.0			3.0			3.0		
Ped/Bike/RTOR Volume	0		0	0		0	0		0	0		0
Lane Width	12.0			12.0			12.0			12.0		
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/hr												
Bus stops/hr	0			0			0			0		
Unit Extension	3.0			3.0			3.0			3.0		
Phasing	EW Perm	02	03	04	NS Perm	06	07	08				
Timing	G = 25.0	G =	G =	G =	G = 65.0	G =	G =	G =				
	Y = 5	Y =	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25						Cycle Length C = 100.0						

Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	Adj. flow rate	152			190			380			364	
Lane group cap.	431			357			1179			1121		
v/c ratio	0.35			0.53			0.32			0.32		
Green ratio	0.25			0.25			0.65			0.65		
Unif. delay d1	30.8			32.4			7.7			7.8		
Delay factor k	0.50			0.50			0.50			0.50		
Increm. delay d2	2.3			5.6			0.7			0.8		
PF factor	1.000			1.000			1.000			1.000		
Control delay	33.1			38.0			8.5			8.5		
Lane group LOS	C			D			A			A		
Approch. delay	33.1			38.0			8.5			8.5		
Approach LOS	C			D			A			A		
Intersec. delay	17.1			Intersection LOS						B		

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SHORT REPORT

General Information				Site Information			
Analyst	ORGA-IJB			Intersection	T ST. @ LINCOLN RD, N.E		
Agency or Co.	O.R. GEORGE & ASSOCIATES			Area Type	All other areas		
Date Performed	10/18/2005			Jurisdiction	D.C		
Time Period	PM PEAK			Analysis Year	Future 2008		

Volume and Timing Input												
	EB			WB			NB			SB		
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT
Num. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Lane group		LTR			LTR			LTR			LTR	
Volume (vph)	17	68	18	16	16	6	13	332	84	39	180	20
% Heavy veh	0	0	0	0	0	0	0	0	0	0	0	0
PHF	0.75	0.75	0.75	0.77	0.77	0.77	0.94	0.94	0.94	0.99	0.99	0.99
Actuated (P/A)	P	P	P	P	P	P	P	P	P	P	P	P
Startup lost time		2.0			2.0			2.0			2.0	
Ext. eff. green		2.0			2.0			2.0			2.0	
Arrival type		3			3			3			3	
Unit Extension		3.0			3.0			3.0			3.0	
Ped/Bike/RTOR Volume	0		0	0		0	0		0	0		0
Lane Width		12.0			12.0			12.0			12.0	
Parking/Grade/Parking	N	0	N	N	0	N	N	0	N	N	0	N
Parking/hr												
Bus stops/hr		0			0			0			0	
Unit Extension		3.0			3.0			3.0			3.0	
Phasing	EW Perm	02	03	04	NS Perm	06	07	08				
Timing	G = 25.0	G =	G =	G =	G = 65.0	G =	G =	G =				
	Y = 5	Y =	Y =	Y =	Y = 5	Y =	Y =	Y =				
Duration of Analysis (hrs) = 0.25							Cycle Length C = 100.0					

Lane Group Capacity, Control Delay, and LOS Determination												
	EB			WB			NB			SB		
	Adj. flow rate		138			50			456			241
Lane group cap.		442			404			1189			1087	
v/c ratio		0.31			0.12			0.38			0.22	
Green ratio		0.25			0.25			0.65			0.65	
Unif. delay d1		30.5			29.0			8.2			7.2	
Delay factor k		0.50			0.50			0.50			0.50	
Increm. delay d2		1.8			0.6			0.9			0.5	
PF factor		1.000			1.000			1.000			1.000	
Control delay		32.3			29.7			9.1			7.6	
Lane group LOS		C			C			A			A	
Apprch. delay		32.3			29.7			9.1			7.6	
Approach LOS		C			C			A			A	
Intersec. delay		13.5		Intersection LOS								B

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TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information		
Analyst	ORGA-IJB		Intersection	TODD PL. @ LINCOLN RD, N.E	
Agency/Co.	O.R.GEORGE & ASSOCIATES		Jurisdiction	D.C.	
Date Performed	10/18/2005		Analysis Year	Future 2008	
Analysis Time Period	AM PEAK				
Project Description SAINT MARTINS PUD					
East/West Street: TODD PLACE, N.E			North/South Street: LINCOLN ROAD, N.E		
Intersection Orientation: North-South			Study Period (hrs): 0.25		

Vehicle Volumes and Adjustments

Major Street	Northbound			Southbound		
	1	2	3	4	5	6
Movement	L	T	R	L	T	R
Volume	0	228	11	6	321	0
Peak-Hour Factor, PHF	1.00	0.75	0.75	0.83	0.83	0.67
Hourly Flow Rate, HFR	0	304	14	7	386	0
Percent Heavy Vehicles	0	--	--	0	--	--
Median Type	Undivided					
RT Channelized			0			0
Lanes	0	1	0	0	1	0
Configuration			TR	LT		
Upstream Signal		0			0	

Minor Street	Westbound			Eastbound		
	7	8	9	10	11	12
Movement	L	T	R	L	T	R
Volume	0	0	0	4	8	2
Peak-Hour Factor, PHF	1.00	0.91	0.91	0.88	0.88	0.88
Hourly Flow Rate, HFR	0	0	0	4	9	2
Percent Heavy Vehicles	0	0	0	0	0	0
Percent Grade (%)	0			0		
Flared Approach		N			N	
Storage		0			0	
RT Channelized			0			0
Lanes	0	0	0	0	1	0
Configuration					LTR	

Delay, Queue Length, and Level of Service

Approach	NB	SB	Westbound			Eastbound		
	1	4	7	8	9	10	11	12
Movement								
Lane Configuration		LT					LTR	
v (vph)		7					15	
C (m) (vph)		1253					391	
v/c		0.01					0.04	
95% queue length		0.02					0.12	
Control Delay		7.9					14.6	
LOS		A					B	
Approach Delay	--	--					14.6	
Approach LOS	--	--					B	

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TWO-WAY STOP CONTROL SUMMARY

General Information			Site Information				
Analyst	ORGA-JJB		Intersection	TODD PL. @ LINCOLN RD, N.E.			
Agency/Co.	O.R. GEORGE & ASSOCIATES		Jurisdiction	D.C.			
Date Performed	10/18/2005		Analysis Year	Future 2008			
Analysis Time Period	PM PEAK						
Project Description SAINT MARTINS PUD							
East/West Street: TODD PLACE, N.E.			North/South Street: LINCOLN ROAD, N.E.				
Intersection Orientation: North-South			Study Period (hrs): 0.25				
Vehicle Volumes and Adjustments							
Major Street	Northbound			Southbound			
Movement	1	2	3	4	5	6	
	L	T	R	L	T	R	
Volume	0	352	4	6	242	0	
Peak-Hour Factor, PHF	1.00	0.89	0.89	0.98	0.98	0.67	
Hourly Flow Rate, HFR	0	395	4	6	246	0	
Percent Heavy Vehicles	0	--	--	0	--	--	
Median Type	Undivided						
RT Channelized			0			0	
Lanes	0	1	0	0	1	0	
Configuration			TR	LT			
Upstream Signal		0			0		
Minor Street	Westbound			Eastbound			
Movement	7	8	9	10	11	12	
	L	T	R	L	T	R	
Volume	0	0	0	4	3	1	
Peak-Hour Factor, PHF	1.00	0.91	0.91	0.67	0.67	0.67	
Hourly Flow Rate, HFR	0	0	0	5	4	1	
Percent Heavy Vehicles	0	0	0	0	0	0	
Percent Grade (%)		0			0		
Flared Approach		N			N		
Storage		0			0		
RT Channelized			0			0	
Lanes	0	0	0	0	1	0	
Configuration					LTR		
Delay, Queue Length, and Level of Service							
Approach	NB	SB	Westbound			Eastbound	
Movement	1	4	7	8	9	10	11
Lane Configuration		LT					LTR
v (vph)		6					10
C (m) (vph)		1171					431
v/c		0.01					0.02
95% queue length		0.02					0.07
Control Delay		8.1					13.6
LOS		A					B
Approach Delay	--	--					13.6
Approach LOS	--	--					B

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ALL-WAY STOP CONTROL ANALYSIS

General Information			Site Information		
Analyst	ORGA-IJB		Intersection	Todd Place @ Summit Place	
Agency/Co.	O.R. GEORGE & ASSOCAITES		Jurisdiction	D.C.	
Date Performed	10/18/2005		Analysis Year	Future 2008	
Analysis Time Period	AM PEAK				

Project ID SAINT MARTINS PUD

East/West Street: TODD PLACE North/South Street: SUMMIT PLACE

Volume Adjustments and Site Characteristics

Approach	Eastbound			Westbound		
	L	T	R	L	T	R
Movement						
Volume	4	9	6	0	0	0
%Thrus Left Lane	50			50		

Approach	Northbound			Southbound		
	L	T	R	L	T	R
Movement						
Volume	0	88	16	2	14	0
%Thrus Left Lane	50			50		

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				TR		LT	
PHF	0.59				0.50		0.71	
Flow Rate	31				208		21	
% Heavy Vehicles	0				0		0	
No. Lanes	1		0		1		1	
Geometry Group	1				1		1	
Duration, T	0.25							

Saturation Headway Adjustment Worksheet

Prop. Left-Turns	0.2				0.0		0.1	
Prop. Right-Turns	0.3				0.2		0.0	
Prop. Heavy Vehicle								
hLT-adj	0.2	0.2			0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6			-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7			1.7	1.7	1.7	1.7
hadj, computed	4.22				4.22		4.22	

Departure Headway and Service Time

hd, initial value	3.20				3.20		3.20	
x, initial	0.03				0.18		0.02	
hd, final value	4.22				4.22		4.22	
x, final value	0.04				0.23		0.02	
Move-up time, m	2.0				2.0		2.0	
Service Time	2.2		2.2		2.2		2.2	

Capacity and Level of Service

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	281				458		271	
Delay	7.38				8.03		7.28	
LOS	A				A		A	
Approach: Delay	7.38				8.03		7.28	
LOS	A				A		A	
Intersection Delay	7.89							
Intersection LOS	A							

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ALL-WAY STOP CONTROL ANALYSIS

General Information		Site Information	
Analyst	ORGA-IJB	Intersection	Todd Place @ Summit Place
Agency/Co.	O.R. GEORGE & ASSOCAITES	Jurisdiction	D.C.
Date Performed	10/18/2005	Analysis Year	Future 2008
Analysis Time Period	PM PEAK		

Project ID SAINT MARTINS PUD	
East/West Street: TODD PLACE	North/South Street: SUMMIT PLACE

Volume Adjustments and Site Characteristics

Approach	Eastbound			Westbound		
Movement	L	T	R	L	T	R
Volume	21	10	7	0	0	0
%Thrus Left Lane	50			50		

Approach	Northbound			Southbound		
Movement	L	T	R	L	T	R
Volume	0	83	12	3	14	0
%Thrus Left Lane	50			50		

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Configuration	LTR				TR		LT	
PHF	0.59				0.50		0.71	
Flow Rate	62				190		23	
% Heavy Vehicles	0				0		0	
No. Lanes	1		0		1		1	
Geometry Group	1				1		1	
Duration, T	0.25							

Saturation Headway Adjustment Worksheet

Prop. Left-Turns	0.6			0.0		0.2	
Prop. Right-Turns	0.2			0.1		0.0	
Prop. Heavy Vehicle							
hLT-adj	0.2	0.2		0.2	0.2	0.2	0.2
hRT-adj	-0.6	-0.6		-0.6	-0.6	-0.6	-0.6
hHV-adj	1.7	1.7		1.7	1.7	1.7	1.7
hadj, computed	4.36			4.36		4.36	

Departure Headway and Service Time

hd, initial value	3.20			3.20		3.20	
x, initial	0.06			0.17		0.02	
hd, final value	4.36			4.36		4.36	
x, final value	0.08			0.21		0.03	
Move-up time, m	2.0			2.0			2.0
Service Time	2.4		2.4		2.4		2.4

Capacity and Level of Service

	Eastbound		Westbound		Northbound		Southbound	
	L1	L2	L1	L2	L1	L2	L1	L2
Capacity	312				440		273	
Delay	7.71				8.06		7.38	
LOS	A				A		A	
Approach: Delay	7.71				8.06			7.38
LOS	A				A			A
Intersection Delay	7.92							
Intersection LOS	A							

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