

ROUNDBABOUT REPORT																
General Information								Site Information								
Analyst JKS								Intersection US41 SB OFF RAMP CTH J - Exist								
Agency or Co.								E/W Street Name								
Date Performed 7/31/2013								N/S Street Name								
Time Period AM								Analysis Year 2038								
Peak Hour Factor 0.90								Project ID								
Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	196	0	159	0	283	265	0	0	0	192	322	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	5.1929	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	3.1858	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	475				670				0				586			
Exiting Flow (V_{ex}), pc/h	0				739				518				474			
Entry Flow (V_e), pc/h		571				434				670				628		
Entry Volume veh/h						395				609				571		
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		0				764				1286				815		
Capacity (c), veh/h		0				694				1169				741		
v/c Ratio (X)						0.57				0.52				0.77		
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh						14.6				9.0				23.0		
Lane LOS		F				B				A				C		
Lane 95% Queue						3.6				3.1				7.5		
Approach Delay, s/veh					14.64				8.98				23.03			
Approach LOS, s/veh					B				A				C			
Intersection Delay, s/veh	15.50															
Intersection LOS	C															

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Time Period PM								Analysis Year 2038								
Peak Hour Factor 0.90								Project ID								
Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	523	0	144	0	74	317	0	0	0	260	228	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	5.1929	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	3.1858	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	957				477				0				729			
Exiting Flow (V_{ex}), pc/h	0				369				563				957			
Entry Flow (V_e), pc/h		542				815				478				596		
Entry Volume veh/h						741				435				542		
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (C_{PCE}), pc/h		0				887				1286				729		
Capacity (c), veh/h		0				806				1169				663		
v/c Ratio (X)						0.92				0.37				0.82		
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh						37.6				6.7				29.1		
Lane LOS		F				E				A				D		
Lane 95% Queue						13.1				1.7				8.6		
Approach Delay, s/veh					37.56				6.75				29.12			
Approach LOS, s/veh					E				A				D			
Intersection Delay, s/veh	27.10															
Intersection LOS	D															

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Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				None				None				Yielding			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	523	0	144	0	74	317	0	0	0	260	228	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Critical Headway (sec)	5.1929	4.2000	5.1929	5.1929	4.2000	4.2000	5.1929	4.2000	5.1929	5.1929	4.2000	4.2000				
Follow-Up Headway (sec)	3.1858	2.8000	3.1858	3.1858	2.8000	3.2000	3.1858	2.8000	3.1858	3.1858	2.8000	2.8000				
Flow Computations																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Circulating Flow (V_c), pc/h	957			477			0			729						
Exiting Flow (V_{ex}), pc/h	0			90			563			957						
Entry Flow (V_e), pc/h		289			815			478			318	279				
Entry Volume veh/h					741			435			289	254				
Capacity and v/c Ratios																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Capacity (C_{PCE}), pc/h		0			887			1286			729	1198				
Capacity (c), veh/h		0			806			1169			663	1089				
v/c Ratio (X)					0.92			0.37			0.44	0.23				
Delay and Level of Service																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Lane Control Delay (d), s/veh					37.6			6.7			11.7	5.5				
Lane LOS		F			E			A			B	A				
Lane 95% Queue					13.1			1.7			2.2	0.9				
Approach Delay, s/veh				37.56			6.75			8.81						
Approach LOS, s/veh				E			A			A						
Intersection Delay, s/veh	20.68															
Intersection LOS	C															

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Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				Yielding				None				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	196	0	159	0	283	265	0	0	0	192	322	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	4.2000		5.1929	4.2000	5.1929		5.1929	4.2000	4.2000	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	2.8000		3.1858	2.8000	3.1858		3.1858	2.8000	3.2000	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	475				670				0				586			
Exiting Flow (V_{ex}), pc/h	0				739				324				474			
Entry Flow (V_e), pc/h		571				240	194			670				628		
Entry Volume veh/h						218	176			609				571		
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		0				764	999			1286				815		
Capacity (c), veh/h		0				694	909			1169				741		
v/c Ratio (X)						0.31	0.19			0.52				0.77		
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh						9.1	5.9			9.0				23.0		
Lane LOS		F				A	A			A				C		
Lane 95% Queue						1.3	0.7			3.1				7.5		
Approach Delay, s/veh					7.67				8.98				23.03			
Approach LOS, s/veh					A				A				C			
Intersection Delay, s/veh	13.75															
Intersection LOS	B															

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Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				Yielding				None				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	523	0	144	0	74	317	0	0	0	260	228	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Critical Headway (sec)	5.1929	4.2000	5.1929	5.1929	4.2000	4.2000	5.1929	4.2000	5.1929	5.1929	4.2000	4.2000				
Follow-Up Headway (sec)	3.1858	2.8000	3.1858	3.1858	2.8000	2.8000	3.1858	2.8000	3.1858	3.1858	2.8000	3.2000				
Flow Computations																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Circulating Flow (V_c), pc/h	957			477			0			729						
Exiting Flow (V_{ex}), pc/h	0			369			387			957						
Entry Flow (V_e), pc/h		542			639	176		478			596					
Entry Volume veh/h					581	160		435			542					
Capacity and v/c Ratios																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Capacity (c_{PCE}), pc/h		0			887	951		1286			729					
Capacity (c), veh/h		0			806	865		1169			663					
v/c Ratio (X)					0.72	0.19		0.37			0.82					
Delay and Level of Service																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Lane Control Delay (d), s/veh					18.7	6.0		6.7			29.1					
Lane LOS		F			C	A		A			D					
Lane 95% Queue					6.3	0.7		1.7			8.6					
Approach Delay, s/veh				15.96			6.75			29.12						
Approach LOS, s/veh				C			A			D						
Intersection Delay, s/veh	17.78															
Intersection LOS	C															

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Peak Hour Factor 0.90								Project ID								
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Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				Yielding				None				Yielding			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	196	0	159	0	283	265	0	0	0	192	322	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	4.2000		5.1929	4.2000	5.1929		5.1929	4.2000	4.2000	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	2.8000		3.1858	2.8000	3.1858		3.1858	2.8000	2.8000	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	475				670				0				586			
Exiting Flow (V_{ex}), pc/h	0				346				324				474			
Entry Flow (V_e), pc/h		214				240	194			670				235	394	
Entry Volume veh/h						218	176			609				214	358	
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		0				764	999			1286				815	982	
Capacity (c), veh/h		0				694	909			1169				741	893	
v/c Ratio (X)						0.31	0.19			0.52				0.29	0.40	
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh						9.1	5.9			9.0				8.3	8.7	
Lane LOS		F				A	A			A				A	A	
Lane 95% Queue						1.3	0.7			3.1				1.2	2.0	
Approach Delay, s/veh					7.67				8.98				8.54			
Approach LOS, s/veh					A				A				A			
Intersection Delay, s/veh	8.50															
Intersection LOS	A															

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Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	0	0		0	1	0		0	1	0		0	1	0	
Lane Assignment					LTR				LTR				LTR			
Right-Turn Bypass	None				Yielding				None				Yielding			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h				0	523	0	144	0	74	317	0	0	0	260	228	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	4.2000		5.1929	4.2000	5.1929		5.1929	4.2000	4.2000	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	2.8000		3.1858	2.8000	3.1858		3.1858	2.8000	2.8000	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	957				477				0				729			
Exiting Flow (V_{ex}), pc/h	0				90				387				957			
Entry Flow (V_e), pc/h		289				639	176			478				318	279	
Entry Volume veh/h						581	160			435				289	254	
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		0				887	951			1286				729	1198	
Capacity (c), veh/h		0				806	865			1169				663	1089	
v/c Ratio (X)						0.72	0.19			0.37				0.44	0.23	
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh						18.7	6.0			6.7				11.7	5.5	
Lane LOS		F				C	A			A				B	A	
Lane 95% Queue						6.3	0.7			1.7				2.2	0.9	
Approach Delay, s/veh					15.96				6.75				8.81			
Approach LOS, s/veh					C				A				A			
Intersection Delay, s/veh	11.37															
Intersection LOS	B															

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Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	1	0		0	0	0		0	1	0		0	1	0	
Lane Assignment	LTR								LTR				LTR			
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h	216	0	104	0				0	0	332	299	0	65	323	0	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	5.1929	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	3.1858	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	474				670				343				0			
Exiting Flow (V_{ex}), pc/h	445				0				670				522			
Entry Flow (V_e), pc/h		391				431				771				474		
Entry Volume veh/h		355								701				431		
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		889				0				984				1286		
Capacity (c), veh/h		808				0				895				1169		
v/c Ratio (X)		0.44								0.78				0.37		
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh		10.1								20.8				6.7		
Lane LOS		B				F				C				A		
Lane 95% Queue		2.3								8.1				1.7		
Approach Delay, s/veh	10.11								20.78				6.71			
Approach LOS, s/veh	B								C				A			
Intersection Delay, s/veh	14.15															
Intersection LOS	B															

ROUNABOUT REPORT																
General Information								Site Information								
Analyst JKS								Intersection US41 NB OFF RAMP CTH J - New E								
Agency or Co.								E/W Street Name								
Date Performed 7/31/2013								N/S Street Name								
Time Period PM								Analysis Year 2038								
Peak Hour Factor 0.90								Project ID								
Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	1	0		0	0	0		0	1	0		0	1	0	
Lane Assignment	LTR								LTR				LTR			
Right-Turn Bypass	None				None				None				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h	145	0	165	0				0	0	246	471	0	169	614	0	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Critical Headway (sec)	5.1929	4.2000	5.1929	5.1929	4.2000	5.1929	5.1929	4.2000	5.1929	5.1929	4.2000	5.1929				
Follow-Up Headway (sec)	3.1858	2.8000	3.1858	3.1858	2.8000	3.1858	3.1858	2.8000	3.1858	3.1858	2.8000	3.1858				
Flow Computations																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Circulating Flow (V_c), pc/h	957			478			384			0						
Exiting Flow (V_{ex}), pc/h	782			0			478			952						
Entry Flow (V_e), pc/h		379			870			876			957					
Entry Volume veh/h		345						796			870					
Capacity and v/c Ratios																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Capacity (c_{PCE}), pc/h		611			0			954			1286					
Capacity (c), veh/h		555			0			867			1169					
v/c Ratio (X)		0.62						0.92			0.74					
Delay and Level of Service																
	EB			WB			NB			SB						
	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass	Left	Right	Bypass				
Lane Control Delay (d), s/veh		19.6						35.7			15.2					
Lane LOS		C			F			E			C					
Lane 95% Queue		4.2						13.4			7.3					
Approach Delay, s/veh	19.62						35.72			15.15						
Approach LOS, s/veh	C						E			C						
Intersection Delay, s/veh	24.06															
Intersection LOS	C															

ROUNDOABOUT REPORT																
General Information								Site Information								
Analyst JKS								Intersection US41 NB OFF RAMP CTH J - New								
Agency or Co. HNTB								E/W Street Name								
Date Performed 7/31/2013								N/S Street Name								
Time Period AM								Analysis Year 2038								
Peak Hour Factor 0.90								Project ID								
Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	1	0		0	0	0		0	1	0		0	1	0	
Lane Assignment	LTR								LTR				LTR			
Right-Turn Bypass	None				None				Yielding				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h	216	0	104	0				0	0	332	299	0	65	323	0	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	4.2000		5.1929	4.2000	5.1929	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	2.8000		3.1858	2.8000	3.1858	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	474				670				343				0			
Exiting Flow (V_{ex}), pc/h	79				0				670				522			
Entry Flow (V_e), pc/h		391				431				406	365			474		
Entry Volume veh/h		355								369	332			431		
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		889				0				984	1209			1286		
Capacity (c), veh/h		808				0				895	1099			1169		
v/c Ratio (X)		0.44								0.41	0.30			0.37		
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh		10.1								8.9	6.2			6.7		
Lane LOS		B				F				A	A			A		
Lane 95% Queue		2.3								2.0	1.3			1.7		
Approach Delay, s/veh	10.11								7.61				6.71			
Approach LOS, s/veh	B								A				A			
Intersection Delay, s/veh	7.94															
Intersection LOS	A															

ROUNABOUT REPORT																
General Information								Site Information								
Analyst JKS								Intersection US41 NB OFF RAMP CTH J - New E								
Agency or Co.								E/W Street Name								
Date Performed 7/31/2013								N/S Street Name								
Time Period PM								Analysis Year 2038								
Peak Hour Factor 0.90								Project ID								
Project Description:																
Volume Adjustment and Site Characteristics																
	EB				WB				NB				SB			
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U
Number of Lanes (N)	0	1	0		0	0	0		0	1	0		0	1	0	
Lane Assignment	LTR								LTR				LTR			
Right-Turn Bypass	None				None				Yielding				None			
Conflicting Lanes	1				1				1				1			
Volume (V), veh/h	145	0	165	0				0	0	246	471	0	169	614	0	0
Heavy Veh. Adj. (f_{HV}), %	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrians Crossing	0				0				0				0			
Critical and Follow-Up Headway Adjustment																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Critical Headway (sec)	5.1929	4.2000	5.1929		5.1929	4.2000	5.1929		5.1929	4.2000	4.2000		5.1929	4.2000	5.1929	
Follow-Up Headway (sec)	3.1858	2.8000	3.1858		3.1858	2.8000	3.1858		3.1858	2.8000	2.8000		3.1858	2.8000	3.1858	
Flow Computations																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Circulating Flow (V_c), pc/h	957				478				384				0			
Exiting Flow (V_{ex}), pc/h	207				0				478				952			
Entry Flow (V_e), pc/h		379				870				301	576			957		
Entry Volume veh/h		345								274	524			870		
Capacity and v/c Ratios																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Capacity (c_{PCE}), pc/h		611				0				954	1095			1286		
Capacity (c), veh/h		555				0				867	995			1169		
v/c Ratio (X)		0.62								0.32	0.53			0.74		
Delay and Level of Service																
	EB				WB				NB				SB			
	Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass		Left	Right	Bypass	
Lane Control Delay (d), s/veh		19.6								7.6	10.2			15.2		
Lane LOS		C				F				A	B			C		
Lane 95% Queue		4.2								1.4	3.2			7.3		
Approach Delay, s/veh	19.62								9.31				15.15			
Approach LOS, s/veh	C								A				C			
Intersection Delay, s/veh	13.60															
Intersection LOS	B															