



Bulb

Tulip

US 321

Rankin Lake

I-85

Radio

Project I-5000  
I-85 at US 321 Gastonia  
Alternate 1: Direct Left



Rankin Lake

I-85

US 321

I-85 Ramps

Project I-5000  
I-85 at US 321 Gastonia  
Alternate 2: Split Left



Tulip

Bulb

Rankin Lake

US 321

I-85

Project I-5000  
I-85 at US 321 Gastonia  
Alternate 3: Flyover

LEVEL OF SERVICE (LOS)															
Alt.	Time Per.	Intersection	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
D I R E C T  L E F T	AM	101: Tulip & US 321	E	E		D	D		E	A		B	C		
	PM	101: Tulip & US 321	F	F		F	E		F	A		C	C		
	AM	102: Rankin Lake & US 321			D				D	A		D	A		
	PM	102: Rankin Lake & US 321			D			E	E	A		E	A		
	AM	103: I-85SB Ramp & US 321			E				E	B			A	A	
	PM	103: I-85SB Ramp & US 321			E			C	F	A			A	E	
	AM	104: I-85 NB Off Ramp & US 321	F		E					F	F	F	F	A	
	PM	104: I-85 NB Off Ramp & US 321	F		E					D	F	F	F	A	
	AM	105: Radio & US 321	E		C				E	A				B	
	PM	105: Radio & US 321	E		C				E	A				B	
	AM	106: New Way & US 321	C		C				A	A				A	
	PM	106: New Way & US 321	C		C				A	A				A	
	N O  B U I L D	AM	101: Tulip & US 321	F	F			F		F	A		F	B	
		PM	101: Tulip & US 321	F	F			F		F	A		F	C	
AM		102: Rankin Lake & US 321			D			E	E	A			A		
PM		102: Rankin Lake & US 321			D			E	E	B			A		
AM		103: I-85SB Ramp & US 321	F		F				F	B			F	F	
PM		103: I-85SB Ramp & US 321	F		F				F	A			F	F	
AM		104: I-85 NB Off Ramp & US 321	F		F				F	A			A	F	
PM		104: I-85 NB Off Ramp & US 321	F		F				F	A			A	F	
AM		105: Radio & US 321	E		C				E	A				B	
PM		105: Radio & US 321	E		C				E	A				B	
AM		106: New Way & US 321	C		C				A	A				A	
PM		106: New Way & US 321	C		C				A	A				A	
F L Y O V E R		AM	101: Tulip & US 321	F	E		E	E		F	D		F	C	
		PM	101: Tulip & US 321	F	F		F	E		F	C		E	D	
	AM	102: Rankin Lake & US 321			D				E	A			A	A	
	PM	102: Rankin Lake & US 321			D				E	A			A	A	
	AM	103: I-85SB Ramp & US 321			E			D	E	D			A	B	
	PM	103: I-85SB Ramp & US 321			E			D	F	C			A	E	
	AM	104: I-85 NB Off Ramp & US 321	D		C					C			C		
	PM	104: I-85 NB Off Ramp & US 321	D		D					B			B		
	AM	105: Radio & US 321	E		D				E	A				B	
	PM	105: Radio & US 321	E		C				E	A				B	
	AM	106: New Way & US 321	E		E				A	A				A	
	PM	106: New Way & US 321	E		E				A	A				A	
	S P L I T  L E F T	AM	101: Tulip & US 321	F	F		D	D		E	D		D	C	
		PM	101: Tulip & US 321	F	F		E	E		F	B		E	D	
AM		102: Rankin Lake & US 321			C			C	D	C		B	A		
PM		102: Rankin Lake & US 321			D			C	D	D		A	A		
AM		103: I-85SB Ramp & US 321			D				D	A			A	B	
PM		103: I-85SB Ramp & US 321			D				F	A			A	E	
AM		104: I-85 NB Off Ramp & US 321	C		C					B			C		
PM		104: I-85 NB Off Ramp & US 321	D		C					B			B		
AM		105: Radio & US 321	D		C				D	A				A	
PM		105: Radio & US 321	E		C				D	A				B	
AM		106: New Way & US 321	B		B				A	A				A	
PM		106: New Way & US 321	C		C				A	A				A	

I-5000 US 321 at I-85 Gaston County 2035 Analysis	Flyover		Split Left		Direct Left		No Build	
	AM	PM	AM	PM	AM	PM	AM	PM
Per Veh. Distance (mi)	0.82	0.81	0.76	0.78	0.78	0.78	0.80	0.80
Per Veh. Time (seconds)	367.6	626.5	189.2	312.7	907.2	966.8	1294.5	1383.8
Per Veh. Delay (seconds)	287.1	547.5	110.6	231.4	828.8	886.6	1215.5	1304.9
Per Veh. Stops	2.07	2.45	1.64	2.98	3.50	4.17	4.33	4.58
Per Veh. Fuel (gal)	0.48	0.64	0.35	0.43	0.80	0.84	1.05	1.10