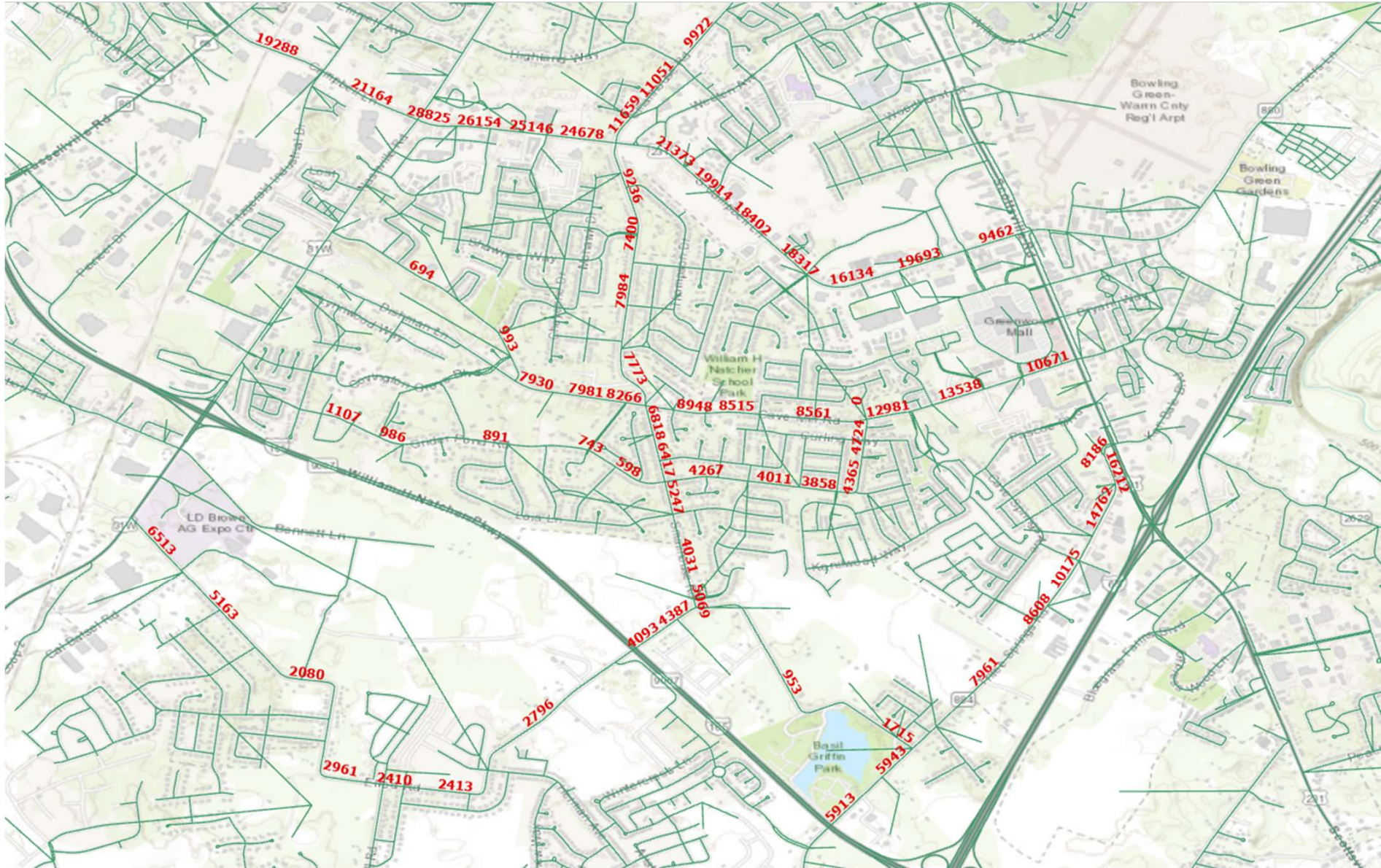
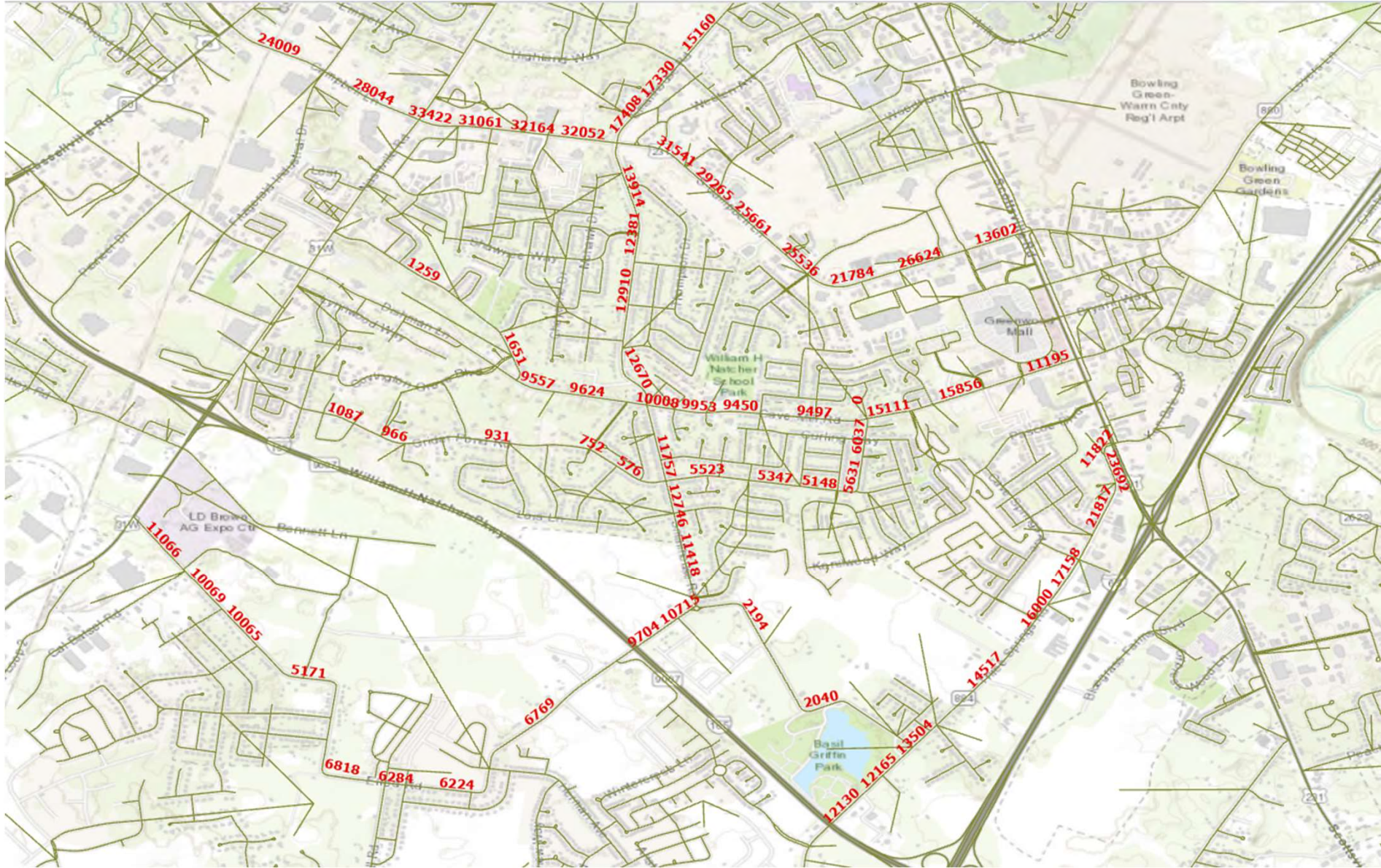


APPENDIX D: Future Year (2045) Traffic Forecast

2018 Base Model





2045 No Interchange

2045 With Interchange

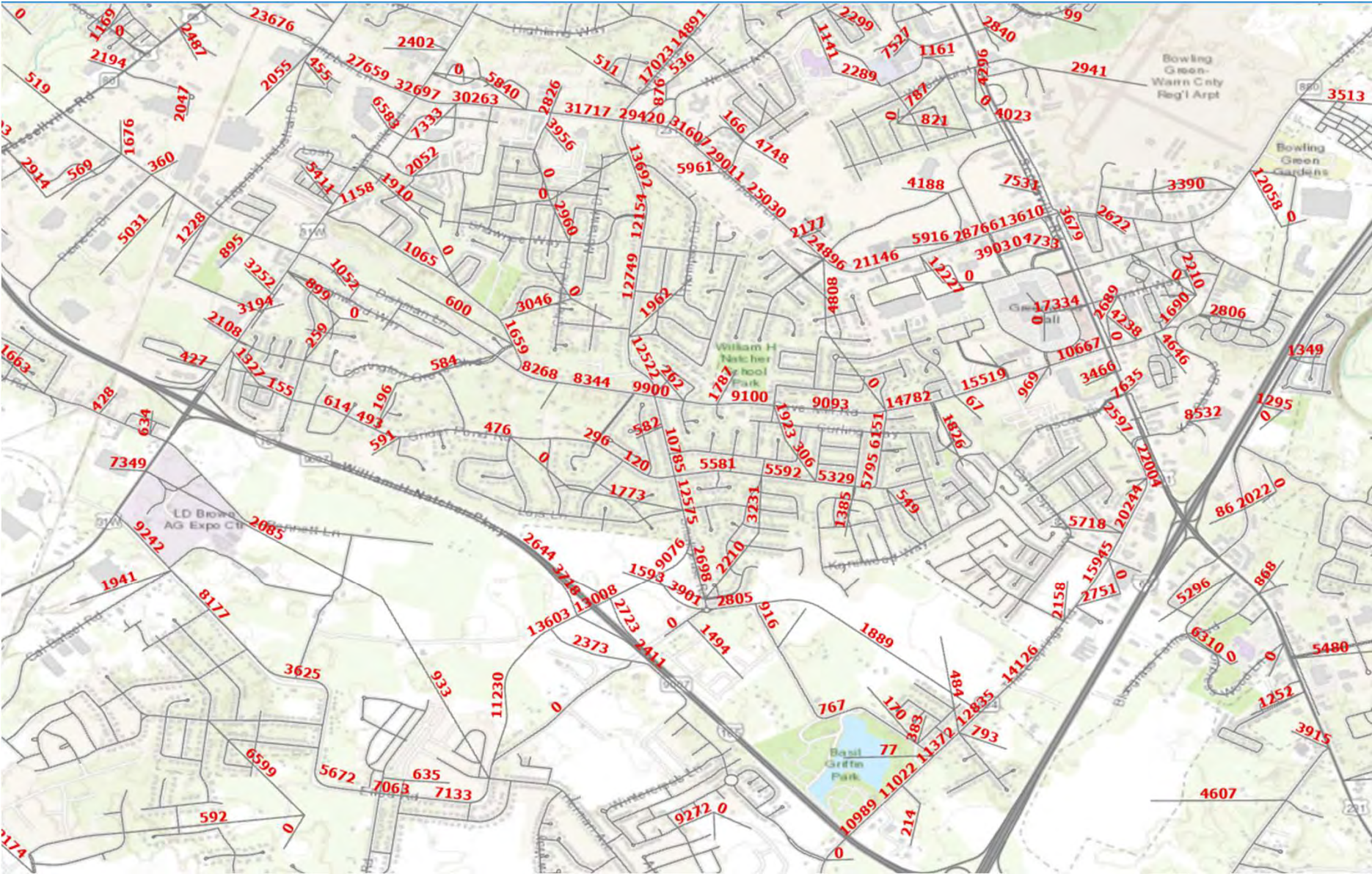




EXHIBIT INDEX / PROJECT OVERVIEW

NATCHER PARKWAY INTERCHANGE AT ELROD ROAD

DECEMBER 15, 2015

ITEM NUMBER 3-8707.00



SMALLHOUSE ROAD EXHIBIT

INTERCHANGE EXHIBIT

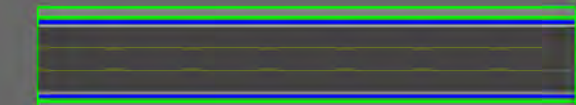


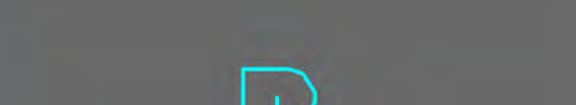
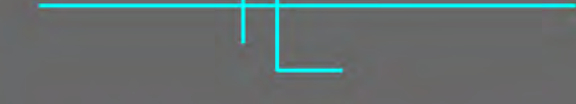
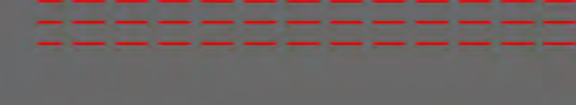
NEW ELROD CONNECTOR EXHIBIT

THREE SPRINGS CONNECTOR EXHIBIT



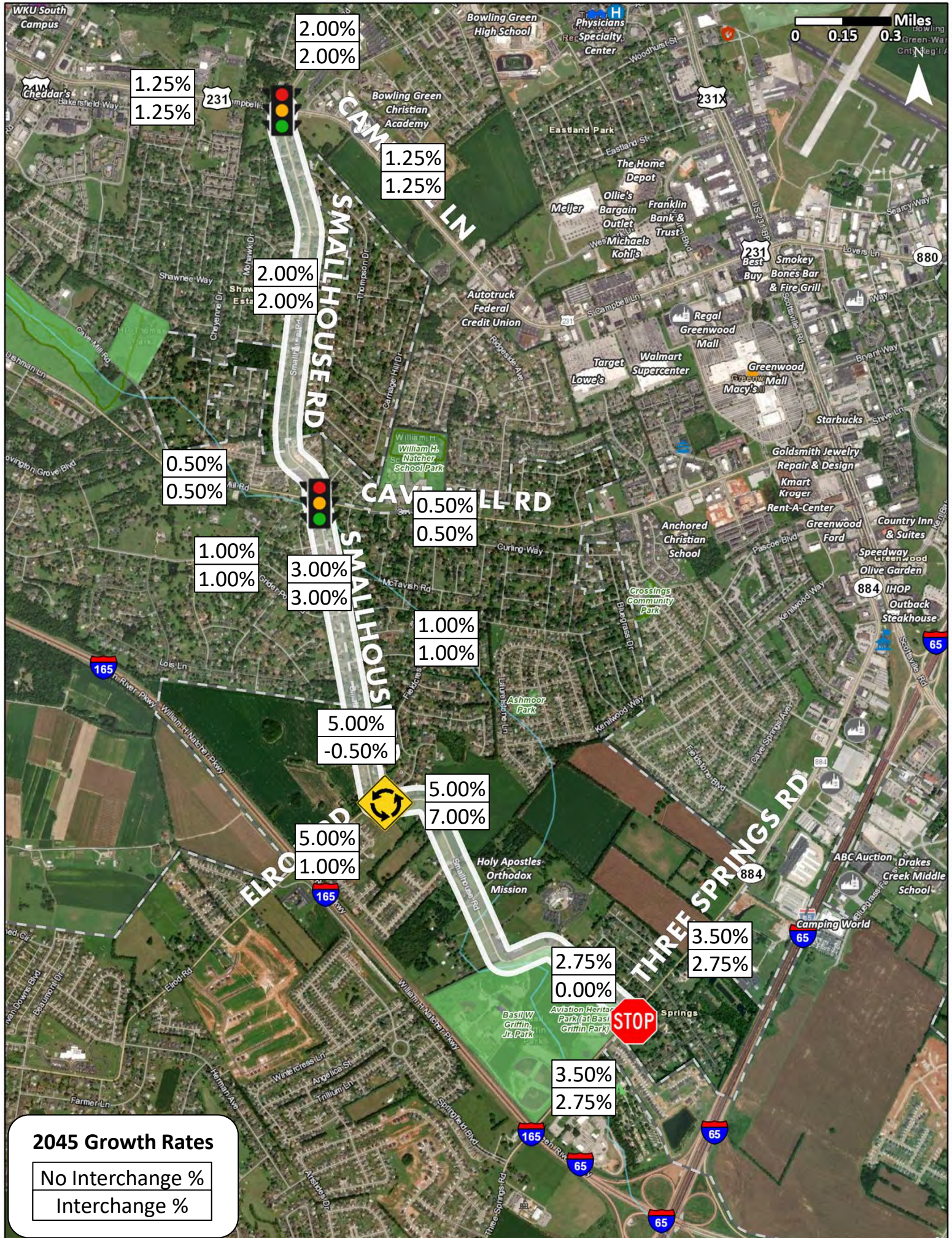
**PRELIMINARY
SUBJECT TO CHANGE**

LEGEND

-  PROPOSED ROADWAY
-  PROPOSED DISTURB LIMITS
-  EXISTING RIGHT OF WAY LINE
-  EXISTING EASEMENT LINE
-  PROPERTY LINE
-  FUTURE CONSTRUCTION



Intersection		Segment	2018 Base Model	2019 KYTC AADT	2045 No Interchange	% Diff from 2018	Per Year	2045 Interchange	% Diff from 2018	Per Year	2045 Diff with / without Interchange
Smallhouse Road	Cave Mill to Campbell	Homestead Ct	11,659	9,281	17,408	49.3%	1.8%	17,139	47.0%	1.7%	-0.1%
		Campbell Ln	9,236	9,325	13,914	50.6%	1.9%	13,692	48.2%	1.8%	-0.1%
		Shawnee Way	7,984	9,325	12,910	61.7%	2.3%	12,749	59.7%	2.2%	-0.1%
		Fleenor Way	7,773	9,325	12,670	63.0%	2.3%	12,522	61.1%	2.3%	-0.1%
	Elrod to Cave Mill	Cave Mill Road	6,818	8,233	12,195	78.9%	2.9%	11,133	63.3%	2.3%	-0.6%
		Grider Pond Road	6,417	8,233	12,746	98.6%	3.7%	12,575	96.0%	3.6%	-0.1%
		Lois Lane	4,031	8,233	12,746	216.2%	8.0%	12,575	212.0%	7.9%	-0.2%
		North of Elrod Road Roundabout (North of Connector)	5,069	8,233	12,085	138.4%	5.1%	12,575	148.1%	5.5%	0.4%
	Three Springs to Elrod	North of Elrod Road Roundabout (South of Connector)	5,069	8,233	12,085	138.4%	5.1%	4,522	-10.8%	-0.4%	-5.5%
		South of Elrod Road Roundabout	953	3,612	2,194	130.2%	4.8%	2,805	194.3%	7.2%	2.4%
		North of Three Springs Rd	1,715	3,612	3,015	75.8%	2.8%	1,609	-6.2%	-0.2%	-3.0%
Campbell Lane		East of Smallhouse Road	25,916	25,727	35,868	38.4%	1.4%	35,557	37.2%	1.4%	0.0%
		West of Smallhouse Road	24,678	30,301	32,052	29.9%	1.1%	31,717	28.5%	1.1%	-0.1%
Cave Mill Road		East of Smallhouse Road	8,988	14,882	10,008	11.3%	0.4%	9,900	10.1%	0.4%	0.0%
		West of Smallhouse Road	8,266	12,079	9,964	20.5%	0.8%	8,684	5.1%	0.2%	-0.6%
Grider Pond Road		East of Smallhouse Road	4,267	N/A	5,523	29.4%	1.1%	5,581	30.8%	1.1%	0.1%
		West of Smallhouse Road	598	N/A	576	-3.7%	-0.1%	120	-79.9%	-3.0%	-2.8%
Elrod Road		West of Elrod Road Roundabout	4,387	4,651	10,715	144.2%	5.3%	5,395	23.0%	0.9%	-4.5%
		West of Emberton Road	2,796	4,651	6,769	142.1%	5.3%	12,976	364.1%	13.5%	8.2%
Three Springs Road		East of Smallhouse Road	7,160	11,555	13,504	88.6%	3.3%	11,372	58.8%	2.2%	-1.1%
		West of Smallhouse Road	5,943	9,678	12,165	104.7%	3.9%	11,022	85.5%	3.2%	-0.7%



2.00%
2.00%

1.25%
1.25%

1.25%
1.25%

2.00%
2.00%

0.50%
0.50%

0.50%
0.50%

1.00%
1.00%

3.00%
3.00%

1.00%
1.00%

5.00%
-0.50%

5.00%
7.00%

5.00%
1.00%

2.75%
0.00%

3.50%
2.75%

3.50%
2.75%

2045 Growth Rates

No Interchange %
Interchange %

Miles
0 0.15 0.3

No Interchange

(905) 410 ↓ ↑ 805 (555)

(1840) 890 ←	Campbell Ln	Smallhouse Rd						Campbell Ln	(1880) 680 ←
		(250)	(535)	(120)	↑	55	(130)		
		155	190	65	←	550	(1480)		
→		(150)	195	↑	←	↑	→	→	
1385		(1245)	1115	→	185	555	315	1495	
(1575)		(180)	75	↓	(110)	(275)	(170)	(1535)	
Smallhouse Rd									
1 - Smallhouse Rd / Campbell Ln									

(985) 340 ↓ ↑ 1055 (555)
(875) 345 ↓ ↑ 940 (530)

(595) 460 ←	Cave Mill Rd	Smallhouse Rd						Cave Mill Rd	(830) 555 ←
		(75)	(595)	(205)	↑	210	(170)		
		40	170	135	←	285	(440)		
→		(80)	115	↑	←	↑	→	→	
490		(450)	315	→	135	615	155	605	
(670)		(140)	60	↓	(80)	(280)	(105)	(760)	
Smallhouse Rd									
2 - Smallhouse Rd / Cave Mill Rd									

(955) 290 ↓ ↑ 905 (465)
(1070) 325 ↓ ↑ 985 (515)

(30) 25 ←	Grider Pond Rd	Smallhouse Rd						Grider Pond Rd	(70) 90 ←
		(10)	(985)	(75)	↑	55	(40)		
		5	295	25	←	10	(10)		
→		(5)	0	↑	←	↑	→	→	
20		(15)	15	→	10	930	50	90	
(35)		(15)	5	↓	(10)	(470)	(25)	(115)	
Smallhouse Rd									
3 - Smallhouse Rd / Grider Pond Rd									

(1020) 325 ↓ ↑ 990 (505)
(1220) 420 ↓ ↑ 1215 (760)

(1015) 330 ←	Elrod Rd	Smallhouse Rd						Smallhouse Rd	(305) 350 ←
		(925)		(295)	↑	280	(215)		
		260		160	←	70	(90)		
→		(545)	935	↑				→	
1045		(125)	110	→				270	
(670)								(420)	
Smallhouse Rd									
4 - Smallhouse Rd / Elrod Rd									

(420) 270 ↓ ↑ 350 (305)
(230) 165 ↓ ↑ 245 (410)

(1200) 520 ←	Three Springs Rd	Smallhouse Rd						Three Springs Rd	(1325) 510 ←
		(120)		(110)	↑	85	(245)		
		95		70	←	425	(1080)		
→		(165)	160	↑				→	
1240		(710)	1080	→				1150	
(875)								(820)	
Smallhouse Rd									
5 - Smallhouse Rd / Three Springs Rd									

With Interchange

(905) 410 ↓ ↑ 805 (555)

(1840) 890 ←	Campbell Ln	Smallhouse Rd						Campbell Ln	(1880) 680 ←
		(250)	(535)	(120)	↑	55	(130)		
		155	190	65	←	550	(1480)		
→		(150)	195	↑	←	↑	→	→	
1385		(1245)	1115	→	185	555	315	1495	
(1575)		(180)	75	↓	(110)	(275)	(170)	(1535)	
Smallhouse Rd									
1 - Smallhouse Rd / Campbell Ln									

(985) 340 ↓ ↑ 1055 (555)
(875) 345 ↓ ↑ 940 (530)

(595) 460 ←	Cave Mill Rd	Smallhouse Rd						Cave Mill Rd	(830) 555 ←
		(75)	(595)	(205)	↑	210	(170)		
		40	170	135	←	285	(440)		
→		(80)	115	↑	←	↑	→	→	
490		(450)	315	→	135	615	155	605	
(670)		(140)	60	↓	(80)	(280)	(105)	(760)	
Smallhouse Rd									
2 - Smallhouse Rd / Cave Mill Rd									

(955) 290 ↓ ↑ 905 (465)
(1070) 325 ↓ ↑ 985 (515)

(30) 25 ←	Grider Pond Rd	Smallhouse Rd						Grider Pond Rd	(70) 90 ←
		(10)	(985)	(75)	↑	55	(40)		
		5	295	25	←	10	(10)		
→		(5)	0	↑	←	↑	→	→	
20		(15)	15	→	10	930	50	90	
(35)		(15)	5	↓	(10)	(470)	(25)	(115)	
Smallhouse Rd									
3 - Smallhouse Rd / Grider Pond Rd									

(1020) 325 ↓ ↑ 990 (505)
(655) 220 ↓ ↑ 870 (575)

(585) 190 ←	Elrod Rd	Smallhouse Rd						Smallhouse Rd	(320) 375 ←
		(530)		(125)	↑	335	(265)		
		150		70	←	40	(55)		
→		(310)	535	↑				→	
600		(70)	65	→				135	
(380)								(195)	
Smallhouse Rd									
4 - Smallhouse Rd / Elrod Rd									

(195) 135 ↓ ↑ 375 (320)
(145) 105 ↓ ↑ 150 (250)

(1050) 445 ←	Three Springs Rd	Smallhouse Rd						Three Springs Rd	(1125) 440 ←
		(75)		(70)	↑	55	(150)		
		60		45	←	385	(975)		
→		(100)	95	↑				→	
1075		(640)	980	→				1025	
(740)								(710)	
Smallhouse Rd									
5 - Smallhouse Rd / Three Springs Rd									