

Existing AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			8.3	A	13.4	B	11.1	B
11th			6.8	A	9.4	A		
12th			7.6	A	12.3	B	11.8	B
Old Morgantown/College Heights	19.7	B	28.2	C	43.5	D	35.6	D
Kentucky								
11th	6.8	A			8.2	A		
12th	8.5	A			9.2	A	8.4	A
Main	8.9	A			8.8	A	9.2	B
6th/7th	45.4	D	32.0	C	35.3	D	39.9	D

Existing PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			7.7	A	11.0	B	9.4	A
11th			5.4	A	8.8	A		
12th			7.2	A	12.1	B	10.3	B
Old Morgantown/College Heights	27.8	C	42.4	D	46.3	D	48.3	D
Kentucky								
11th	8.1	A			8.6	A		
12th	8.6	A			9.8	A	10.7	B
Main	10.0	A			9.1	A	9.7	A
6th/7th	51.5	D	27.9	C	43.4	D	43.2	D

E+C AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			8.0	A	13.5	B	11.2	B
11th			6.1	A	8.9	A		
12th			9.8	A	14.1	B	11.8	B
Old Morgantown/College Heights	20.9	C	29.6	C	40.9	D	36.2	D
Kentucky								
11th	9.0	A			8.9	A		
12th	8.4	A			8.3	A	9.1	A
Main	9.8	A			8.5	A	9.6	A
6th/7th	49.2	D	34.9	C	39.9	D	53.4	D

E+C PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			9.2	A	10.4	B	9.1	A
11th			6.7	A	9.5	A		
12th			8.0	A	14.0	B	13.1	B
Old Morgantown/College Heights	30.3	C	47.2	D	34.8	C	40.3	D
Kentucky								
11th	9.9	A			9.9	A		
12th	8.5	A			9.4	A	10.5	B
Main	9.4	A			9.2	A	10.3	B
6th/7th	39.4	D	21.3	C	35.8	D	44.0	D

Concept 1 AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main	15.3	B	15.3	B	32.7	C	31.4	C
11th	22.6	C	7.4	A	18.3	B		
12th	15.5	B	20.2	C	31.6	C	31.9	C
Old Morgantown/College Heights	22.9	C	14.3	B	30.7	C	31.3	C
Kentucky								
11th	7.7	A	3.9	A	7.9	A		
12th	7.8	A	4.7	A	7.7	A	8.7	A
Main	7.3	A	5.8	A	7.1	A	8.0	A
6th/7th	42.4	D	33.3	C	32.4	C	50.4	D

Concept 1 PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main	23.5	C	23.6	C	24.3	C	32.7	C
11th	31.9	C	16.1	B	31.8	C		
12th	46.3	D	41.9	D	35.3	D	29.9	C
Old Morgantown/College Heights	50.1	D	34.1	C	41.0	D	41.5	D
Kentucky								
11th	5.2	A	5.1	A	7.4	A		
12th	8.2	A	5.0	A	7.9	A	7.7	A
Main	10.2	B	5.0	A	8.7	A	7.5	A
6th/7th	47.7	D	36.2	D	37.7	D	36.8	D

Concept 2 AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main	7.1	A	7.9	A	23.9	C	24.5	C
11th	4.3	A	4.8	A	17.6	B		
12th	5.9	A	8.6	A	27.4	C	28.0	C
Old Morgantown/College Heights	24.0	C	14.5	B	30.0	C	31.7	C
Kentucky								
11th	6.7	A	4.1	A	7.6	A		
12th	5.8	A	6.5	A	7.3	A	8.9	A
Main	6.4	A	5.3	A	8.0	A	7.9	A
6th/7th	44.9	D	39.7	D	30.3	C	46.7	D

Concept 2 PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main	9.3	A	8.6	A	21.2	C	26.5	C
11th	6.6	A	6.8	A	22.1	C		
12th	6.9	A	3.3	A	29.4	C	28.7	C
Old Morgantown/College Heights	40.9	D	31.1	C	37.0	C	41.7	D
Kentucky								
11th	5.6	A	5.4	A	7.9	A		
12th	8.1	A	4.2	A	8.0	A	8.0	A
Main	6.8	A	4.7	A	8.9	A	8.0	A
6th/7th	43.0	D	25.1	C	36.9	D	35.0	C

Concept 3 AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main	4.0	A	7.4	A	20.9	C	30.7	C
11th	9.1	A	2.9	A	14.0	B		
12th	2.3	A	6.2	A	25.7	C	30.6	C
Old Morgantown/College Heights	20.0	B	13.2	B	31.9	C	31.7	C
Kentucky								
11th	8.4	A	8.3	A	9.1	A		
12th	8.3	A	8.9	A	13.8	B	10.7	B
Main	9.5	A	6.8	A	14.3	B	9.2	A
6th/7th	40.4	D	33.4	C	28.2	C	37.3	D

Concept 3 PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main	11.9	B	10.2	B	20.1	C	24.9	C
11th	2.8	A	3.3	A	16.6	B		
12th	2.9	A	0.4	A	24.4	C	30.3	C
Old Morgantown/College Heights	31.5	C	24.4	C	39.6	D	40.2	D
Kentucky								
11th	7.8	A	8.6	A	10.4	B		
12th	9.2	A	9.0	A	11.8	B	11.3	B
Main	10.7	B	7.4	A	13.3	B	8.9	A
6th/7th	35.7	D	23.4	C	31.6	C	32.2	C

Concept 4 AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			11.1	B	16.5	B	10.5	B
11th			9.8	A	10.3	B		
12th			12.7	B	14.3	B	13.4	B
Old Morgantown/College Heights	27.5	C	30.6	C	44.0	D	38.0	D
Kentucky								
11th	10.2	B			10.2	B		
12th	10.5	B			8.1	A	10.2	B
Main	12.6	B			8.5	A	11.3	B
6th/7th	44.4	D	24.6	C	30.3	C	47.2	D

Concept 4 PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			10.7	B	12.5	B	9.3	A
11th			9.6	A	11.4	B		
12th			12.5	B	15.5	B	12.7	B
Old Morgantown/College Heights	38.8	D	44.7	D	42.4	D	54.5	D
Kentucky								
11th	14.1	B			10.7	B		
12th	13.7	B			9.8	A	11.9	B
Main	14.0	B			12.2	B	12.4	B
6th/7th	41.9	D	21.2	C	32.9	C	33.8	C

Concept 4B AM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			9.4	A	14.0	B	10.3	B
11th			5	A	9.4	A		
12th			7.9	A	13.5	B	11.2	B
Old Morgantown/College Heights	25.0	C	27.6	C	39.3	D	39.4	D
Kentucky								
11th	10.3	B			8.7	A		
12th	9.4	A			10.6	B	13.3	B
Main	10.8	B			10.0	B	11.9	B
6th/7th	41.5	D	23.6	C	31.0	C	52.3	D

Concept 4B PM

Intersection	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS	Average Delay sec/veh	LOS
	NB		SB		WB		EB	
Adams at:								
Main			8.1	A	10.6	B	8.6	A
11th			6	A	8.8	A		
12th			7.4	A	12.4	B	12.5	B
Old Morgantown/College Heights	38.1	D	38.1	D	39.7	D	49.3	D
Kentucky								
11th	14.1	B			11.0	B		
12th	13.0	B			10.1	B	11.3	B
Main	13.6	B			10.2	B	12.6	B
6th/7th	41.4	D	20.9	C	32.3	C	34.1	C

QUEUES

AM

Intersection 95th % Queue(FT)	Existing				E+C				Concept 1				Concept 2				Concept 3				Concept 4				Concept 4B			
	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB
Adams at:																												
Main		77	30	56		68	44	48	249	257	107	150	82	118	74	114	14	76	60	148		139	52	49		61	44	49
11th		76	20			76	34		301	147	52		30	96	45		19	25	24			135	26			58	29	
12th		61	27	49		103	42	56	250	394	75	104	68	116	56	98	0	29	52	99		176	37	57		88	32	48
Old Morgantown/College Heights	144	201	43	139	140	177	37	135	205	182	25	116	237	168	27	118	141	129	42	121	269	173	40	118	242	170	45	125
Kentucky at:																												
11th	40		18		60		22		0	0	24		0	4	24		71	65	30		124		25		97		27	
12th	60		13	48	58		14	56	11	0	15	67	4	0	10	61	56	74	32	61	92		11	74	81		18	76
Main	55		30	57	74		24	59	0	0	21	46	0	0	25	48	41	20	61	66	148		30	83	125		30	71
6th/7th	141	206	132	241	157	197	200	462	138	336	136	461	130	368	132	416	85	296	137	139	127	142	123	393	139	149	127	372

PM

Intersection 95th % Queue(FT)	Existing				E+C				Concept 1				Concept 2				Concept 3				Concept 4				Concept 4B				
	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	NB	SB	WB	EB	
Adams at:																													
Main		55	40	20		71	36	28	352	338	166	84	104	128	130	62	58	73	129	58		118	51	20		60	46	24	
11th		42	28			78	41		497	272	120		110	113	75		3	18	29			146	44			63	39		
12th		60	41	38		105	52	49	704	703	101	100	81	52	90	82	0	0	71	86		171	49	42		70	53	44	
Old Morgantown/College Heights	166	298	89	134	206	317	84	136	490	454	72	127	312	312	44	131	211	231	99	96	209	99	177	180	270	255	109	145	
Kentucky at:																													
11th	65		35		87		49		3	0	29		0	0	4		64	67	38		198		37		194		41		
12th	68		28	58	87		28	48	13	0	14	39	28	13	0	23	49	66	74	36	67	162		25	57	160		23	59
Main	93		52	27	100		78	25	5	0	47	21	0	0	52	27	53	28	83	61	174		81	52	193		65	43	
6th/7th	242	139	229	183	206	113	180	181	266	276	208	214	220	206	212	180	114	137	161	166	209	99	177	180	203	106	169	183	

AM Peak Travel Times (minutes)

Model	Scenario	Adams		Kentucky	
		6th to Old Morgantown	Old Morgantown to 6th	6th to Old Morgantown	Old Morgantown to 6th
Existing	2020	2.9			3.1
E+C	2030	2.9			3.3
Concept 1*	Two Way	3.6	3.7	2.4	2.9
Concept 2*	Intersection Improvements	3.0	3.0	2.4	2.9
Concept 3*	Full Build	2.9	2.9	2.4	3.0
Concept 4	Road Diet	3.2			3.3
Concept 4B	Road Diet	2.9			3.3

*Kentucky travel times are not to/from Old Morgantown due to geometric changes but from near 14th St

P.M. Peak Travel Times (minutes)

Model	Scenario	Adams		Kentucky	
		6th to Old Morgantown	Old Morgantown to 6th	6th to Old Morgantown	Old Morgantown to 6th
Existing	2020	3.0			3.3
E+C	2030	3.1			3.1
Concept 1*	Two Way	5.4	5.6	2.8	3.6
Concept 2*	Intersection Improvements	3.4	3.3	2.5	3.3
Concept 3*	Full Build	2.8	3.1	2.8	3.0
Concept 4	Road Diet	3.3			3.4
Concept 4B	Road Diet	3.0			3.5

*Kentucky travel times are not to/from Old Morgantown due to geometric changes but from near 14th St