

***Appendix B***

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**Traffic and Crash Data**

**West Bypass Existing Traffic Volumes**

<b>West Bypass</b>		2000 Traffic Volume			2001 Traffic Volume			2002 Traffic Volume			2003 Traffic Volume			2004 Traffic Volume			2005 Traffic Volume		
From	To	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour
Westbound I-44 Ramps	Eastbound I-44 Ramps							19,682						14,500			14,790		
Eastbound I-44 Ramps	Kearney Street	15,444			17,493			19,400						18,184			18,133	1,612	1,631
Kearney Street	Division Street	15,444	1,276	1,286				16,716						15,094	1,074	1,209	15,396		
Division Street	Chestnut Expressway	17,780	1,479	1,501				16,979						17,799	1,199	1,476	18,155		
Chestnut Expressway	Mt Vernon Street	19,979	1,519	1,733							22,004			24,793	2,005	2,333	25,289		
Mt Vernon Street	Sunshine St./ MO State 413	25,447	2,141	2,341										27,738	2,209	2,533	28,293		
Sunshine St./ MO State 413	Farm Road 156													18,701	1,606	1,896	19,075		
Farm Road 156	Battlefield Road													21,224			21,648		
Battlefield Road	Hwy 60 Westbound Ramps													19,689			20,083		
Hwy 60 Westbound Ramps	Hwy 60 Eastbound Ramps																25,517		
Hwy 60 Eastbound Ramps	State Hwy MM/ Republic Road													17,744			18,099		
State Hwy MM/ Republic Road	Weaver Road																7,105		

**West Bypass Crash History**

<b>West Bypass</b>		2002 Traffic Crashes	2003 Traffic Crashes	2004 Traffic Crashes	3 year Average	Segment Length (Miles)	2002 Crash Rate	2003 Crash Rate	2004 Crash Rate
From	To								
Westbound I-44 Ramps	Eastbound I-44 Ramps				-	0.10	0.0	-	0.0
Eastbound I-44 Ramps	Kearney Street	1	1	0	1	0.25	0.6	-	0.0
Kearney Street	Division Street	20	10	16	15	1.00	3.3	-	2.9
Division Street	Chestnut Expressway	29	21	17	22	1.00	4.7	-	2.6
Chestnut Expressway	Mt Vernon Street	6	2	7	5	0.50	-	0.5	1.5
Mt Vernon Street	Sunshine Street/ MO State 413	14	7	10	10	1.50	-	-	0.7
Sunshine Street/ MO State 413	Farm Road 156	0	1	4	2	1.25	-	-	0.5
Farm Road 156	Battlefield Road				-	0.58	-	-	0.0
Battlefield Road	Highway 60 Westbound Ramps				-	0.57	-	-	0.0
Highway 60 Westbound Ramps	Highway 60 Eastbound Ramps				-	0.10	-	-	-
Highway 60 Eastbound Ramps	State Highway MM/ Republic Road				-	0.82	-	-	0.0
State Highway MM/ Republic Road	Weaver Road				-	1.05	-	-	-



**Kansas Expressway Crash History**

<b>Kansas Expressway</b>		2002 Traffic Crashes	2003 Traffic Crashes	2004 Traffic Crashes	3 year Average	Segment Length (Miles)	2002 Crash Rate	2003 Crash Rate	2004 Crash Rate
From	To								
Norton Road	Westbound I-44 Ramps	4	9	1	5	0.14	-	-	0.7
Westbound I-44 Ramps	Eastbound I-44 Ramps	4	0	2	2	0.10	-	-	1.9
Eastbound I-44 Ramps	Evergreen	6	7	7	7	0.06	-	-	11.0
Evergreen	Kearney Street	41	43	50	45	0.54	7.3	-	9.0
Kearney Street	High Street	6	11	6	8	0.25	-	4.1	2.2
High Street	Atlantic	4	2	5	4	0.25	-	0.7	1.7
Atlantic	Division Street	17	13	20	17	0.50	-	2.0	3.3
Division Street	Nichols	0	3	4	2	0.50	-	0.5	0.7
Nichols	Chestnut Expressway	4	3	5	4	0.33	-	-	1.2
Chestnut Expressway	College Street	3	3	4	3	0.40	-	0.6	0.8
College Street	Walnut Street	4	4	5	4	0.08	-	-	4.7
Walnut Street	Mt Vernon Street	4	1	3	3	0.21	-	-	1.1
Mt Vernon Street	Grand Street	5	10	6	7	0.56	-	-	0.9
Grand Street	Bennett	23	7	12	14	0.50	-	-	1.7
Bennett	Sunshine	4	13	16	11	0.50	-	1.9	2.4
Sunshine	Sunset	13	16	9	13	1.10	-	1.3	0.7
Sunset	Battlefield Road	0	4	3	2	0.47	-	0.8	0.6
Battlefield Road	Walnut Lawn	3	2	1	2	0.53	-	0.4	0.1
Walnut Lawn	Chesterfield Boulevard	2	4	5	4	0.48	-	0.9	1.0
Chesterfield Boulevard	Westbound Hwy 60 Ramps	3	1	5	3	0.19	-	0.5	2.4
Westbound Hwy 60 Ramps	Eastbound Hwy 60 Ramps	0	0	0	0	0.11	-	-	0.0
Eastbound Hwy 60 Ramps	Republic Road	0	0	2	1	0.23	-	-	1.3



**Kansas Expressway Existing Traffic Volumes**

Kansas Expressway		2000 Traffic Volume			2001 Traffic Volume			2002 Traffic Volume			2003 Traffic Volume			2004 Traffic Volume			2005 Traffic Volume		
From	To	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour
Norton Road	Westbound I-44 Ramps	27,980	1,955	2,385										29,477	2,273	2,419	30,067		
Westbound I-44 Ramps	Eastbound I-44 Ramps	19,880												29,555	2,195	2,133	30,146		
Eastbound I-44 Ramps	Evergreen	27,980			30,161	1,811	2,549							29,008	2,070	2,206	29,588		
Evergreen	Kearney Street	28,821	1,848	2,295	27,731	1,754	2,391	28,572						28,248	1,764	2,126	30,111	1,734	2,569
Kearney Street	High Street	33,005									29,645	1,990	2,275	30,209			29,946	2,090	2,385
High Street	Atlantic										30,948	1,866	2,372	31,648	2,191	2,465	32,281		
Atlantic	Division Street	32,790	2,292	2,719	30,528						34,935	2,011	2,709	33,169	2,061	2,708	33,832		
Division Street	Nichols	31,822	2,298	2,714							33,589			32,569	2,305	2,664	32,601		
Nichols	Chestnut Expressway	24,855												33,677			34,351		
Chestnut Expressway	College Street	32,790	2,388	2,644							33,711			33,080	2,397	2,677	33,742		
College Street	Walnut Street	34,801	2,383	2,861										36,091	2,810	2,968	36,813		
Walnut Street	Mt Vernon Street	34,688	2,483	2,888										36,020	2,865	2,968	35,760		
Mt Vernon Street	Grand Street	33,082	2,590	2,718	36,232									33,385	2,468	2,775	34,053		
Grand Street	Bennett	35,417	2,820	2,858										38,097	2,943	3,134	36,844	3,023	3,111
Bennett	Sunshine	31,695			33,485	2,623	2,971				38,001	2,988	2,888	37,126	2,983	2,973	36,959	3,018	3,156
Sunshine	Sunset	32,189	2,346	2,641							29,817	2,540	2,430	30,803	2,138	2,568	31,419		
Sunset	Battlefield Road										29,425	2,488	2,417	31,479	2,170	2,646	30,713	2,494	2,779
Battlefield Road	Walnut Lawn	32,927			25,586	2,263	2,332				25,971	2,106	2,527	36,091	2,865	2,968	27,097	2,225	2,684
Walnut Lawn	Chesterfield Blvd	24,855	2,053	2,302							25,601	2,244	2,382	27,750	1,876	2,491	27,750		
Chesterfield Blvd	Westbound Hwy 60 Ramps	25,616	2,272	2,451							28,521	2,344	2,382	29,647	2,052	2,731	30,086		
Westbound Hwy 60 Ramps	Eastbound Hwy 60 Ramps	19,302			30,161									24,985	1,643	2,588	25,485		
Eastbound Hwy 60 Ramps	Republic Road	13,883	1,211	1,276	33,716									18,851	1,260	1,942	19,228		



**Campbell Avenue/U.S. 160 Existing Traffic Volumes**

<b>Campbell Avenue/ Highway 160</b>		2000 Traffic Volume			2001 Traffic Volume			2002 Traffic Volume			2003 Traffic Volume			2004 Traffic Volume			2005 Traffic Volume		
From	To	24 Hour Total	AM Peak	PM Peak	24 Hour Total	AM Peak	PM Peak	24 Hour Total	AM Peak	PM Peak	24 Hour Total	AM Peak	PM Peak	24 Hour Total	AM Peak	PM Peak	24 Hour Total	AM Peak	PM Peak
Battlefield	Walnut Lawn				38,011	2,659	3,067							41,576	2,006	3,276	37,900		
Walnut Lawn	Primrose				40,522	2,949	3,260							33,838	2,159	2,574	41,323		
Primrose	Republic Road	36,394			37,455	2,657	3,034	43,824			42,192			37,585	2,454	3,089	42,959		
Republic Road	Westbound Hwy 60 Ramps				35,743	2,634	3,066							37,336	2,553	3,006	38,083		
Westbound Hwy 60 Ramps	Eastbound Hwy 60 Ramps				39,381	2,627	3,346							40,183	2,639	3,346	40,987		
Eastbound Hwy 60 Ramps	El Camino Alto				38,313	2,319	3,239							38,448	2,974	3,035	39,217		
El Camino Alto	Lakewood				38,313	2,319	3,239							40,284			44,438	2,849	3,474
Lakewood	Weaver				37,862	2,714	3,161							36,994	2,800	3,068	39,663		
Weaver	Plainview				35,291	2,422	2,855							36,336			38,198	2,997	3,043
Plainview	Missouri State Highway AA				32,759	2,175	2,765							33,932			34,878	2,414	2,989
Missouri State Highway AA	Missouri State Highway CC										33,734			27,164			33,721		
Missouri State Highway CC	Tracker													23,337			23,804		
Tracker	Aldersgate													25,276			25,782		
Aldersgate	Northview													24,682			25,176		
Northview	Wasson													24,543			25,034		
Wasson	State Highway 14													24,782			25,278		



**Campbell Avenue/U.S.160 Crash History**

<b>Campbell Avenue/ Highway 160</b>		2002	2003	2004	3 year	Segment	2002	2003	2004
From	To	Traffic Crashes	Traffic Crashes	Traffic Crashes	Average	Length (Miles)	Crash Rate	Crash Rate	Crash Rate
Battlefield	Walnut Lawn	41	60	53	51	0.50	-	-	7.0
Walnut Lawn	Primrose	47	36	58	47	0.55	-	-	8.5
Primrose	Republic Road	29	38	39	35	0.46	3.9	5.4	6.2
Republic Road	Westbound Hwy 60 Ramps	9	8	9	9	0.07	-	-	9.4
Westbound Hwy 60 Ramps	Eastbound Hwy 60 Ramps	2	5	0	2	0.10	-	-	0.0
Eastbound Hwy 60 Ramps	El Camino Alto	4	3	2	3	0.13	-	-	1.1
El Camino Alto	Lakewood	11	9	13	11	0.37	-	-	2.4
Lakewood	Weaver	7	4	7	6	0.32	-	-	1.6
Weaver	Plainview	3	7	3	4	0.50	-	-	0.5
Plainview	Missouri State Highway AA					1.76	-	-	0.0
Missouri State Highway AA	Missouri State Highway CC					0.50	-	0.0	0.0
Missouri State Highway CC	Tracker			7		1.27	-	-	0.6
Tracker	Aldersgate			7		0.38	-	-	2.0
Aldersgate	Northview			8		0.39	-	-	2.3
Northview	Wasson			6		0.50	-	-	1.3
Wasson	State Highway 14			15		0.25	-	-	6.6



**National Avenue Existing Traffic Volumes**

National Avenue		2000 Traffic Volume			2001 Traffic Volume			2002 Traffic Volume			2003 Traffic Volume			2004 Traffic Volume			2005 Traffic Volume		
From	To	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour	24 Hour Total	AM Peak Hour	PM Peak Hour
Norton	Kearney	9,636			9,385	708	882							10,950			9,877	718	910
Kearney	Dale							16,131	1,264	1,525	16,234	1,060	1,499	16,568			16,899		
Dale	Commercial				19,518	1,499	1,763										19,829	1,574	1,901
Commercial	Division				18,170	1,291	1,647							19,456	1,512	1,623	19,845		
Division	Central				20,234	1,405	1,737										21,902		
Central	Chestnut Expressway	21,985			20,915	1,483	1,918							23,541	1,745	2,166	23,541		
Chestnut Expressway	Trafficway	27,337			25,451	1,901	2,271										26,497		
Trafficway	St Louis				28,923	2,029	2,469										31,307		
St Louis	Walnut	32,759			27,041	1,824	2,210				27,041						30,595	2,148	2,715
Walnut	Elm				32,281	2,251	2,728										31,576	2,162	2,764
Elm	Cherry				31,856						32,868	2,156	2,761	33,683			30,528	2,054	2,598
Cherry	Grand	34,838			34,505	2,350	2,844				34,810	2,243	2,909	34,669			34,933	2,382	3,017
Grand	Bennett				34,945	2,297	2,905				34,845	2,237	2,740	35,700			35,515	2,375	3,064
Bennett	Sunshine	30,313			35,236	2,374	2,964				37,912	2,611	3,008				36,601	2,666	3,074
Sunshine	Cherokee				35,725	2,329	2,901				38,714	2,492	3,282				37,297	2,600	3,139
Cherokee	Seminole				30,961	2,218	2,747				32,376	2,117	2,765				33,684		
Seminole	Sunset										32,855	2,222	2,816				35,379	2,340	3,108
Sunset	Woodland										33,224	2,174	2,828				34,566		
Woodland	Battlefield	29,331									31,931	2,590	2,590				35,040	2,381	2,897
Battlefield	Montclair	30,193									34,364	2,199	2,721				35,589	2,449	2,921
Montclair	Walnut Lawn										35,784	2,415	2,987				35,002	2,333	2,917
Walnut Lawn	Primrose										33,715	2,352	2,688				36,309	2,538	3,056
Primrose	Westbound Hwy 60 Ramps	36,164			39,108	3,350	3,171	38,831	1,721	2,284	40,024						38,557		
Westbound Hwy 60 Ramps	Eastbound Hwy 60 Ramps				28,578	2,469	2,332										30,934		
Eastbound Hwy 60 Ramps	Republic Road				24,426	1,721	2,284				19,431	1,495	1,718				26,439		
Republic Road	Weaver Road										14,892	1,264	1,441				15,494		



**National Avenue Crash History**

<b>National Avenue</b>		2002 Traffic Crashes	2003 Traffic Crashes	2004 Traffic Crashes	3 year Average	Segment Length (Miles)	2002 Crash Rate	2003 Crash Rate	2004 Crash Rate
From	To								
Norton	Kearney	9	3	10	7	0.75	-	-	3.3
Kearney	Dale	6	2	7	5	0.38	2.7	0.9	3.0
Dale	Commercial	0	4	2	2	0.32	-	-	-
Commercial	Division	2	1	6	3	0.31	-	-	2.7
Division	Central	3	9	4	5	0.60	-	-	-
Central	Chestnut Expressway	4	5	4	4	0.16	-	-	2.9
Chestnut Expressway	Trafficway	17	22	13	17	0.29	-	-	-
Trafficway	St Louis	0	2	0	1	0.07	-	-	-
St Louis	Walnut	13	16	8	12	0.20	-	8.1	-
Walnut	Elm	7	3	2	4	0.10	-	-	-
Elm	Cherry	10	2	5	6	0.10	-	1.7	4.1
Cherry	Grand	11	14	17	14	0.50	-	2.2	2.7
Grand	Bennett	10	6	9	8	0.51	-	0.9	1.4
Bennett	Sunshine	12	14	7	11	0.50	-	2.0	-
Sunshine	Cherokee	24	17	15	19	0.25	-	4.8	-
Cherokee	Seminole	8	5	4	6	0.25	-	1.7	-
Seminole	Sunset	13	12	21	15	0.50	-	2.0	-
Sunset	Woodland	2	3	2	2	0.25	-	1.0	-
Woodland	Battlefield	10	9	11	10	0.30	-	2.6	-
Battlefield	Montclair	1	12	11	8	0.13	-	7.4	-
Montclair	Walnut Lawn	18	12	11	14	0.34	-	2.7	-
Walnut Lawn	Primrose	8	13	14	12	0.40	-	2.6	-
Primrose	Westbound Highway 60 Ramps	9	9	12	10	0.28	2.3	2.2	-
Westbound Highway 60 Ramps	Eastbound Highway 60 Ramps	0	1	2	1	0.10	-	-	-
Eastbound Highway 60 Ramps	Republic Road	1	1	3	2	0.22	-	0.6	-
Republic Road	Weaver Road	2	4	5	4	1.07	-	0.7	-





**GENERALIZED ANNUAL AVERAGE DAILY VOLUMES FOR URBANIZED AREAS**

Source: Research based on Highway Capacity Manual completed by the Florida DOT  
 For planning purposes, Class II roadway capacities were used. Volumes over LOS E were considered to be “congested”. Volumes over LOS D were considered to be “nearly congested”.  
 When considered future year model volume results, volumes 10,000 above LOS E were considered to be “highly congested”. These classifications represent theoretical conditions. Actual arterial LOS is determined by operational assessment of intersection capacity using the Highway Capacity Manual methodology.

Class II (2.00 to 4.50 signalized intersections per mile)

		Level of Service				
Lanes	Divided	A	B	C	D	E
2	Undivided	**	1,900	11,200	15,400	16,300
4	Divided	**	4,100	26,000	32,700	34,500
6	Divided	**	6,500	40,300	49,200	51,800
8	Divided	**	8,500	53,300	63,800	67,000

Adjustment factor for non-divided roadway is -5%



Year 2030 Volume Forecast

Model Scenario		
No-Build	Campbell	75,500
Alternative 1	Campbell	59,500
	West By Pass/FF	56,000
Alternative 2	Campbell	59,700
	Kansas Extension	60,100
Alternative 3	Campbell	91,700
Alternative 4	Campbell	63800
	National	50800
New Connection	No-Build	0
	Build	6900
160 North	No-Build	15900
	Build	36700