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November 4, 2013

**TO: Mr. David Campbell, PE  
Ideal Engineering Solutions**

**RE: Edwards Place Subdivision  
Updated Traffic Counts for Concept Plan**

Dear David,

Per your request, I recently conducted traffic counts at the intersection of Fairview Road at Emory Road and Thompson School Road at Emory Road. Both of these intersections were tabulated for individual turning movements over an 8 hour period on the same day. The counts were taken on Wednesday, October 30<sup>th</sup>, 2013. The 8 hour counts were from 7 am – 9 am, 11 am – 2 pm, and 3 pm – 6 pm. These counts were undertaken similar to the counts that were conducted by Wilbur Smith in January 2007.

Based on the counts that were conducted this past week, it is shown that the traffic volumes are similar as compared to the original traffic counts that were conducted by Wilbur Smith Associates in January 2007. The original peak hour traffic counts that were tabulated by Wilbur Smith are attached at the end of this letter and are shown in Figure 7 of the original Wilbur Smith report. Additionally, the counts that were just recently conducted are attached at the end of this letter.

It is noted that the PM Peak Hour on the day of the count was greatly influenced due to a Trunk-or-Treat event that was held at Fairview Baptist Church at 6 PM on the day of the counts. During the recent counts that were conducted, a surge of traffic was experienced at the intersections prior and leading up to 6 PM.

*In the original TIS report from 2007, Wilbur Smith estimated that by the year 2012, traffic would increase by a total of 15%. However, as can be seen from the collected data, even after the results being influenced by the church event, the recent counts tabulated appear to be within the range documented in the original Wilbur Smith report that was ultimately accepted and approved by Knox County.*

Please feel free to contact me at 865-556-0042 if you have any questions about the traffic counts.

**Ajax Engineering, LLC**

A handwritten signature in black ink, appearing to read "Robert W. Jacks".

Robert W. Jacks, P.E.

## TRAFFIC COUNT DATA

Major Street: Emory Road  
 Minor Street: Fairview Road

10/30/2013  
 Sunny

### Primary Movement: Vehicles

TIME BEGIN	WESTBOUND		NORTHBOUND		EASTBOUND		VEHICLE TOTAL	PEAK HOUR
	LT	THRU	LT	RT	THRU	RT		
7:00 AM	23	74	8	3	67	31	206	
7:15 AM	55	67	5	1	90	52	270	7:15 AM - 8:15 AM
7:30 AM	42	99	7	2	70	44	264	
7:45 AM	35	108	12	5	62	27	249	
8:00 AM	29	76	13	5	80	28	231	
8:15 AM	22	67	12	9	64	21	195	
8:30 AM	9	94	7	1	28	14	153	
8:45 AM	10	46	13	1	45	16	131	
<b>TOTAL</b>	<b>225</b>	<b>631</b>	<b>77</b>	<b>27</b>	<b>506</b>	<b>233</b>	<b>1699</b>	
11:00 AM	7	59	8	5	47	15	141	
11:15 AM	6	46	12	5	48	4	121	
11:30 AM	8	46	4	2	51	11	122	
11:45 AM	2	53	7	3	45	8	118	
12:00 PM	3	43	3	2	50	4	105	
12:15 PM	0	60	10	3	43	7	123	
12:30 PM	6	61	9	1	52	13	142	
12:45 PM	7	63	5	2	56	9	142	12:45 PM - 1:45 PM
1:00 PM	3	60	5	6	50	11	135	
1:15 PM	3	90	5	5	59	9	171	
1:30 PM	6	76	7	6	60	5	160	
1:45 PM	2	53	6	5	60	5	131	
<b>TOTAL</b>	<b>53</b>	<b>710</b>	<b>81</b>	<b>45</b>	<b>621</b>	<b>101</b>	<b>1611</b>	
3:00 PM	2	99	22	12	80	15	230	
3:15 PM	7	62	15	3	91	12	190	
3:30 PM	16	106	14	7	69	11	223	
3:45 PM	16	105	11	9	75	13	229	
4:00 PM	6	85	29	6	91	22	239	
4:15 PM	6	75	27	8	104	20	240	
4:30 PM	6	75	28	7	76	13	205	
4:45 PM	4	65	31	14	72	17	203	
5:00 PM	9	86	32	20	80	14	241	5:00 PM - 6:00 PM
5:15 PM	7	69	38	15	104	23	256	
5:30 PM	10	91	30	37	116	23	307	
5:45 PM	20	85	29	29	116	31	310	
<b>TOTAL</b>	<b>109</b>	<b>1003</b>	<b>306</b>	<b>167</b>	<b>1074</b>	<b>214</b>	<b>2873</b>	

## TRAFFIC COUNT DATA - PEAK HOURS

Major Street: Emory Road  
 Minor Street: Fairview Road

10/30/2013  
 Sunny

### AM PEAK HOUR

TIME BEGIN	WESTBOUND		NORTHBOUND		EASTBOUND		INTERSECTION TOTAL
	LT	THRU	LT	RT	THRU	RT	
7:15 AM	55	67	5	1	90	52	
7:30 AM	42	99	7	2	70	44	
7:45 AM	35	108	12	5	62	27	
8:00 AM	29	76	13	5	80	28	
<b>TOTAL</b>	161	350	37	13	302	151	
<b>ORIGINAL TRAFFIC COUNT</b>	151	370	37	14	324	179	1075
<b>GROWTH</b>	7%	-5%	0%	-7%	-7%	-16%	<b>-6%</b>

### PM PEAK HOUR

TIME BEGIN	WESTBOUND		NORTHBOUND		EASTBOUND		INTERSECTION TOTAL
	LT	THRU	LT	RT	THRU	RT	
5:00 PM	9	86	32	20	80	14	
5:15 PM	7	69	38	15	104	23	
5:30 PM	10	91	30	37	116	23	
5:45 PM	20	85	29	29	116	31	
<b>TOTAL</b>	46	331	129	101	416	91	
<b>ORIGINAL TRAFFIC COUNT</b>	19	336	108	80	436	72	1051
<b>GROWTH</b>	142%	-1%	19%	26%	-5%	26%	<b>6%</b>

## TRAFFIC COUNT DATA

Major Street: Emory Road  
 Minor Street: Thompson School Road

10/30/2013  
 Sunny

### Primary Movement: Vehicles

TIME BEGIN	WESTBOUND		SOUTHBOUND		EASTBOUND		VEHICLE TOTAL	PEAK HOUR
	THRU	RT	LT	RT	LT	THRU		
7:00 AM	51	1	17	46	4	70	189	
7:15 AM	46	0	9	73	19	91	238	7:15 AM - 8:15 AM
7:30 AM	70	3	10	69	17	72	241	
7:45 AM	52	4	6	91	7	67	227	
8:00 AM	53	3	7	52	8	84	207	
8:15 AM	55	4	7	34	9	68	177	
8:30 AM	76	8	9	27	3	28	151	
8:45 AM	44	1	10	10	4	45	114	
TOTAL	447	24	75	402	71	525	1544	
/ / / / / / / / / /								
11:00 AM	46	6	1	13	9	52	127	
11:15 AM	35	4	7	11	5	53	115	
11:30 AM	35	2	7	11	4	53	112	
11:45 AM	44	11	10	9	12	48	134	
12:00 PM	38	6	6	5	9	52	116	
12:15 PM	55	8	5	5	5	46	124	
12:30 PM	49	3	3	12	5	53	125	
12:45 PM	53	2	7	10	6	58	136	
1:00 PM	53	6	6	7	10	56	138	1:00 PM - 2:00 PM
1:15 PM	80	9	5	10	9	64	177	
1:30 PM	62	9	10	14	7	66	168	
1:45 PM	51	8	6	2	10	65	142	
TOTAL	601	74	73	109	91	666	1614	
/ / / / / / / / / /								
3:00 PM	85	4	4	14	17	92	216	
3:15 PM	53	9	7	9	14	94	186	
3:30 PM	51	6	8	37	18	76	196	
3:45 PM	60	7	9	45	14	84	219	
4:00 PM	75	9	8	10	11	97	210	
4:15 PM	68	8	4	7	19	112	218	
4:30 PM	65	10	4	10	19	83	191	
4:45 PM	52	9	4	13	32	86	196	
5:00 PM	69	14	2	17	34	100	236	5:00 PM - 6:00 PM
5:15 PM	59	13	10	10	28	119	239	
5:30 PM	71	11	6	20	52	153	313	
5:45 PM	66	12	11	19	42	145	295	
TOTAL	774	112	77	211	300	1241	2715	

## TRAFFIC COUNT DATA - PEAK HOURS

Major Street: Emory Road  
 Minor Street: Thompson School Road

10/30/2013  
 Sunny

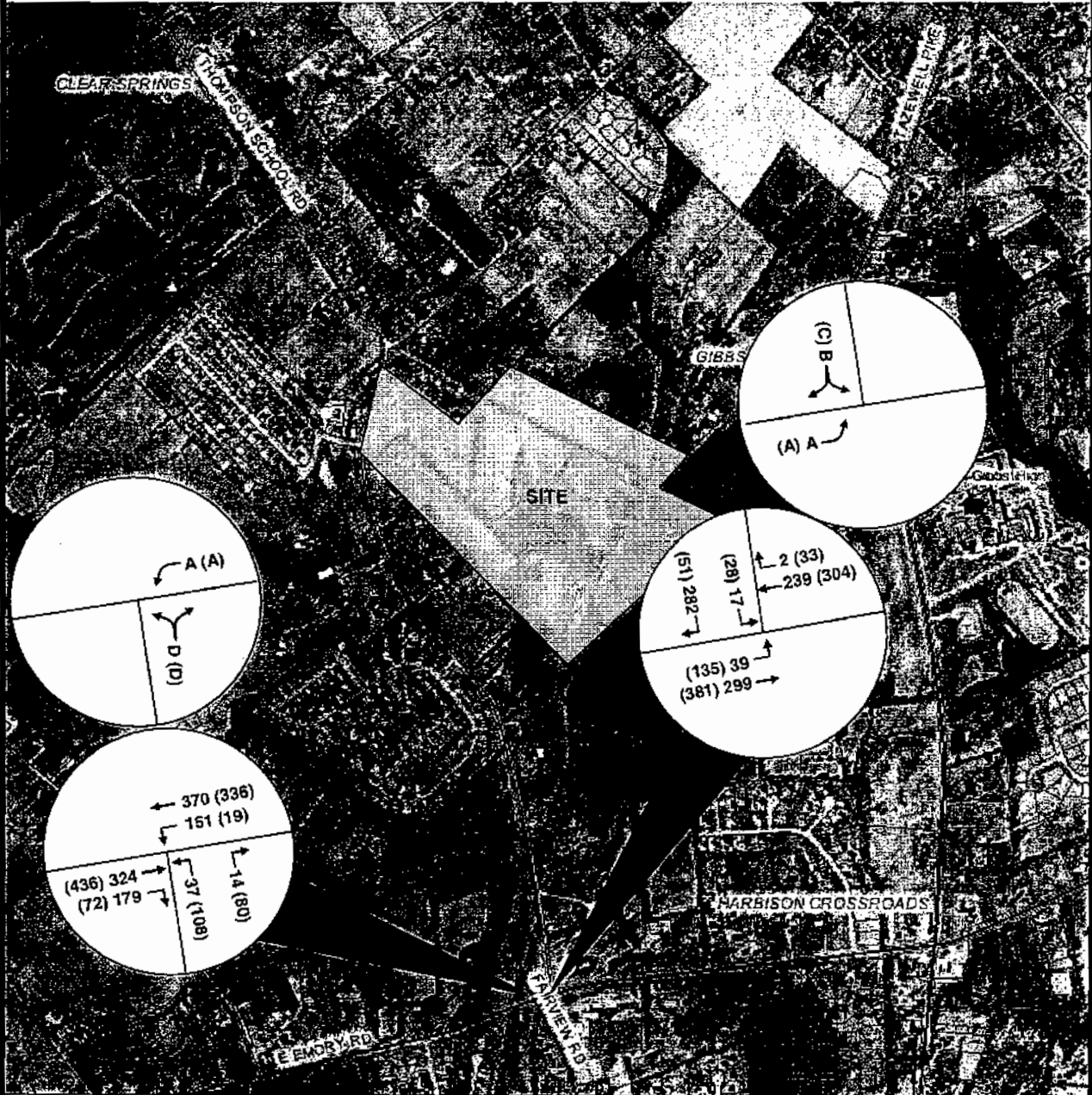
### AM PEAK HOUR

TIME BEGIN	WESTBOUND		SOUTHBOUND		EASTBOUND		INTERSECTION TOTAL
	THRU	RT	LT	RT	LT	THRU	
7:15 AM	46	0	9	73	19	91	
7:30 AM	70	3	10	69	17	72	
7:45 AM	52	4	6	91	7	67	
8:00 AM	53	3	7	52	8	84	
<b>TOTAL</b>	221	10	32	285	51	314	
<b>ORIGINAL TRAFFIC COUNT</b>	239	2	17	282	39	299	878
<b>GROWTH</b>	-8%	400%	88%	1%	31%	5%	<b>4%</b>

### PM PEAK HOUR

TIME BEGIN	WESTBOUND		SOUTHBOUND		EASTBOUND		INTERSECTION TOTAL
	THRU	RT	LT	RT	LT	THRU	
5:00 PM	69	14	2	17	34	100	
5:15 PM	59	13	10	10	28	119	
5:30 PM	71	11	6	20	52	153	
5:45 PM	66	12	11	19	42	145	
<b>TOTAL</b>	265	50	29	66	156	517	
<b>ORIGINAL TRAFFIC COUNT</b>	304	33	28	51	135	381	932
<b>GROWTH</b>	-13%	52%	4%	29%	16%	36%	<b>16%</b>

**2007 EXISTING TRAFFIC  
EDWARDS PLACE  
Knox County, TN**



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**LEGEND**

- XXX AM PEAK
- (XXX) PM PEAK
- X AM LOS
- (X) PM LOS

0 1787ft

**Figure 4**