

## **Appendix B: Traffic Data & Analysis**

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# Middle Ridge

Weather :  
 Counted by :  
 Board # :  
 Other :

JAMAR Technologies, Inc.  
 YAS for Windows  
 Copyright 1999

Site Code : 000100506001  
 Start Date: 10/05/2006  
 File I.D. : MIDDLE RIDGE  
 Page : 1

A to B WB

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/05	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	53	0	34	16	2	0	0	0	1	0	0	0	0	0
11:00	110	6	67	29	3	3	0	0	2	0	0	0	0	0
12:00 pm	97	0	68	26	0	2	0	0	0	1	0	0	0	0
01:00	93	0	62	26	2	2	0	0	1	0	0	0	0	0
02:00	124	0	95	24	3	1	0	0	1	0	0	0	0	0
03:00	165	2	117	31	5	4	1	0	5	0	0	0	0	0
04:00	158	1	106	47	2	1	0	0	0	0	1	0	0	0
05:00	188	0	130	50	6	1	1	0	0	0	0	0	0	0
06:00	140	0	100	32	3	2	0	0	3	0	0	0	0	0
07:00	135	0	98	35	0	0	0	0	2	0	0	0	0	0
08:00	97	0	70	23	0	3	0	0	1	0	0	0	0	0
09:00	70	0	55	15	0	0	0	0	0	0	0	0	0	0
10:00	41	0	33	8	0	0	0	0	0	0	0	0	0	0
11:00	32	0	26	6	0	0	0	0	0	0	0	0	0	0
Day Totals	1503	9	1061	368	26	19	2	*	16	1	1	*	*	*
12:00 10/06	16	0	11	5	0	0	0	0	0	0	0	0	0	0
01:00	2	0	1	0	0	1	0	0	0	0	0	0	0	0
02:00	8	0	8	0	0	0	0	0	0	0	0	0	0	0
03:00	10	0	6	4	0	0	0	0	0	0	0	0	0	0
04:00	10	0	7	2	0	0	1	0	0	0	0	0	0	0
05:00	10	0	8	2	0	0	0	0	0	0	0	0	0	0
06:00	21	0	16	3	2	0	0	0	0	0	0	0	0	0
07:00	66	0	51	11	1	0	2	0	1	0	0	0	0	0
08:00	51	0	36	12	1	0	0	0	2	0	0	0	0	0
09:00	53	0	32	19	0	1	0	0	1	0	0	0	0	0
10:00	64	0	48	14	0	2	0	0	0	0	0	0	0	0
11:00	88	0	57	23	3	2	1	0	1	0	1	0	0	0
12:00 pm	108	1	71	32	1	2	0	0	1	0	0	0	0	0
01:00	104	0	67	28	4	4	1	0	0	0	0	0	0	0
02:00	114	2	76	27	3	3	1	0	2	0	0	0	0	0
03:00	224	2	157	50	10	0	0	0	5	0	0	0	0	0
04:00	182	0	117	56	7	0	0	0	2	0	0	0	0	0
05:00	214	0	148	48	8	4	0	0	6	0	0	0	0	0
06:00	149	2	110	33	1	2	0	0	1	0	0	0	0	0
07:00	104	2	79	21	1	1	0	0	0	0	0	0	0	0
08:00	86	0	57	27	1	1	0	0	0	0	0	0	0	0
09:00	90	0	66	23	0	1	0	0	0	0	0	0	0	0
10:00	88	0	68	20	0	0	0	0	0	0	0	0	0	0
11:00	56	0	46	9	0	0	0	0	1	0	0	0	0	0
Day Totals	1918	9	1343	469	43	24	6	*	23	*	1	*	*	*

Thu

Fri

Tube Location on Middle Ridge Rd  
 approx 1/2 mile West of Elyria Ave.

# Middle Ridge

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 File I.D. : MIDDLE RIDGE  
 Page : 2

A to B WB

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/07	41	0	29	11	0	1	0	0	0	0	0	0	0	0
01:00	15	0	13	1	0	1	0	0	0	0	0	0	0	0
02:00	8	0	7	1	0	0	0	0	0	0	0	0	0	0
03:00	13	0	9	4	0	0	0	0	0	0	0	0	0	0
04:00	13	0	10	3	0	0	0	0	0	0	0	0	0	0
05:00	10	0	8	2	0	0	0	0	0	0	0	0	0	0
06:00	14	0	13	1	0	0	0	0	0	0	0	0	0	0
07:00	38	0	28	9	1	0	0	0	0	0	0	0	0	0
08:00	62	0	41	18	0	1	0	0	2	0	0	0	0	0
09:00	85	1	62	19	1	2	0	0	0	0	0	0	0	0
10:00	109	0	70	33	3	2	0	0	1	0	0	0	0	0
11:00	130	1	92	32	1	2	1	0	1	0	0	0	0	0
12:00 pm	138	3	102	28	1	1	1	0	2	0	0	0	0	0
01:00	140	6	91	41	2	0	0	0	0	0	0	0	0	0
02:00	168	0	118	46	1	2	0	0	1	0	0	0	0	0
03:00	136	4	89	37	1	2	0	0	3	0	0	0	0	0
04:00	126	1	97	26	0	0	0	1	1	0	0	0	0	0
05:00	137	2	105	26	1	2	0	0	1	0	0	0	0	0
06:00	112	1	80	26	2	0	0	1	2	0	0	0	0	0
07:00	118	0	91	24	0	1	0	0	2	0	0	0	0	0
08:00	87	1	67	18	0	1	0	0	0	0	0	0	0	0
09:00	71	1	50	18	0	0	0	0	2	0	0	0	0	0
10:00	61	0	47	12	0	1	0	0	1	0	0	0	0	0
11:00	43	0	38	5	0	0	0	0	0	0	0	0	0	0
Day Totals	1875	21	1357	441	14	19	2	2	19	*	*	*	*	*
12:00 10/08	33	0	29	3	0	1	0	0	0	0	0	0	0	0
01:00	12	0	11	1	0	0	0	0	0	0	0	0	0	0
02:00	14	1	13	0	0	0	0	0	0	0	0	0	0	0
03:00	7	0	3	4	0	0	0	0	0	0	0	0	0	0
04:00	6	0	5	1	0	0	0	0	0	0	0	0	0	0
05:00	8	0	5	3	0	0	0	0	0	0	0	0	0	0
06:00	9	0	8	1	0	0	0	0	1	0	0	0	0	0
07:00	16	0	12	4	0	0	0	0	0	0	0	0	0	0
08:00	39	0	30	8	0	0	0	0	1	0	0	0	0	0
09:00	76	0	54	22	0	0	0	0	0	0	0	0	0	0
10:00	91	0	68	21	0	1	0	0	1	0	0	0	0	0
11:00	110	2	73	30	3	1	0	0	1	0	0	0	0	0
12:00 pm	142	2	103	30	2	2	0	0	2	0	0	1	0	0
01:00	113	1	83	26	0	0	0	0	3	0	0	0	0	0
02:00	124	2	88	29	1	0	1	1	2	0	0	0	0	0
03:00	133	1	101	28	1	1	0	0	1	0	0	0	0	0
04:00	133	3	94	28	3	1	1	0	3	0	0	0	0	0
05:00	127	1	98	21	2	1	1	0	1	0	2	0	0	0
06:00	117	3	86	25	1	1	0	0	1	0	0	0	0	0
Totals	6606	55	4725	1563	96	71	13	3	74	1	4	1	0	0
Percent		.8%	71.5%	23.6%	1.4%	1.0%	.2%	.0%	1.1%	.0%	.0%	.0%	.0%	.0%

SAT

SUN

# Middle Ridge

Weather :  
 Counted by :  
 Board # :  
 Other :

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 TAS for Windows  
 Copyright 1999

Site Code : 000100506001  
 Start Date: 10/05/2006  
 File I.D. : MIDDLE RIDGE  
 Page : 3

B to A **EB**

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/05	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	115	1	76	25	5	5	0	0	1	1	1	0	0	0
11:00	149	0	92	32	19	3	1	0	1	1	0	0	0	0
12:00 pm	151	0	91	40	13	4	1	0	1	1	0	0	0	0
01:00	145	1	97	34	8	2	1	0	1	1	0	0	0	0
02:00	151	2	90	38	9	5	2	0	2	3	0	0	0	0
03:00	262	4	158	67	22	3	0	1	3	2	1	0	1	0
04:00	212	2	126	56	20	2	1	0	3	1	0	0	0	1
05:00	242	1	164	45	25	1	1	1	3	0	0	0	0	1
06:00	174	1	123	34	13	1	1	0	0	1	0	0	0	0
07:00	144	0	100	28	12	1	1	0	2	0	0	0	0	0
08:00	101	1	72	16	12	0	0	0	0	0	0	0	0	0
09:00	72	0	54	15	3	0	0	0	0	0	0	0	0	0
10:00	67	1	50	14	2	0	0	0	0	0	0	0	0	0
11:00	30	0	24	4	1	0	1	0	0	0	0	0	0	0
Day Totals	2015	14	1317	448	164	27	10	2	17	11	2	*	1	2
12:00 10/06	14	0	12	1	0	1	0	0	0	0	0	0	0	0
01:00	8	0	5	3	0	0	0	0	0	0	0	0	0	0
02:00	6	0	5	0	1	0	0	0	0	0	0	0	0	0
03:00	9	0	8	1	0	0	0	0	0	0	0	0	0	0
04:00	20	0	11	8	0	0	1	0	0	0	0	0	0	0
05:00	40	0	32	7	1	0	0	0	0	0	0	0	0	0
06:00	92	1	60	27	2	2	0	0	0	0	0	0	0	0
07:00	218	1	153	51	7	5	0	0	1	0	0	0	0	0
08:00	134	0	91	26	9	3	2	0	1	2	0	0	0	0
09:00	100	0	68	20	4	4	1	0	1	0	0	0	2	0
10:00	126	0	82	30	7	2	1	0	4	0	0	0	0	0
11:00	153	0	97	32	17	2	1	0	1	3	0	0	0	0
12:00 pm	162	1	101	47	10	2	0	0	1	0	0	0	0	0
01:00	177	0	108	47	19	2	0	0	0	1	0	0	0	0
02:00	213	2	138	49	18	3	1	0	2	0	0	0	0	0
03:00	250	2	158	54	22	4	0	0	5	2	2	0	0	1
04:00	222	1	144	51	20	2	1	0	2	1	0	0	0	0
05:00	244	1	158	55	19	7	0	1	2	1	0	0	0	0
06:00	213	2	145	43	17	4	0	0	2	0	0	0	0	0
07:00	130	0	86	28	13	2	1	0	0	0	0	0	0	0
08:00	85	0	56	23	4	1	1	0	0	0	0	0	0	0
09:00	88	0	63	20	5	0	0	0	0	0	0	0	0	0
10:00	74	0	54	12	6	1	0	0	1	0	0	0	0	0
11:00	59	0	46	10	2	0	0	0	1	0	0	0	0	0
Day Totals	2837	11	1881	645	203	47	10	1	24	10	2	*	2	1

Thu

Fri

# Middle Ridge

Weather :  
 Counted by:  
 Board # :  
 Other :

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 TAS for Windows  
 Copyright 1999

Site Code : 000100506001  
 Start Date: 10/05/2006  
 File I.D. : MIDDLE RIDGE  
 Page : 4

B to A **EB**

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00	10/07	47	0	33	9	4	0	1	0	0	0	0	0	0
01:00		24	0	22	1	1	0	0	0	0	0	0	0	0
02:00		9	0	8	1	0	0	0	0	0	0	0	0	0
03:00		10	0	8	2	0	0	0	0	0	0	0	0	0
04:00		10	1	7	2	0	0	0	0	0	0	0	0	0
05:00		17	0	13	3	0	0	1	0	0	0	0	0	0
06:00		48	1	29	15	2	0	0	1	0	0	0	0	0
07:00		73	1	53	12	3	2	0	0	2	0	0	0	0
08:00		121	0	84	28	8	1	0	0	0	0	0	0	0
09:00		140	0	88	41	9	1	0	0	1	0	0	0	0
10:00		194	1	123	41	12	0	0	0	4	1	0	0	0
11:00		181	1	118	40	14	3	2	0	2	0	0	1	0
12:00 pm		189	1	116	52	12	3	0	0	4	0	0	0	1
01:00		178	0	116	41	15	4	1	0	1	0	0	0	0
02:00		191	3	130	34	14	4	0	0	4	2	0	0	0
03:00		209	3	147	38	16	3	0	0	1	1	0	0	0
04:00		187	5	131	38	9	2	0	0	1	0	0	0	1
05:00		184	16	120	32	12	2	0	0	1	0	1	0	0
06:00		201	26	124	41	9	0	0	0	1	0	0	0	0
07:00		153	6	94	39	10	1	1	2	0	0	0	0	0
08:00		103	1	73	23	6	0	0	0	0	0	0	0	0
09:00		72	0	49	14	8	0	0	0	1	0	0	0	0
10:00		60	1	41	13	4	0	0	0	0	1	0	0	0
11:00		63	0	54	8	0	0	1	0	0	0	0	0	0
Day Totals		2654	67	1781	568	168	28	6	3	24	5	1	1	2
12:00	10/08	30	0	27	2	1	0	0	0	0	0	0	0	0
01:00		18	0	16	1	1	0	0	0	0	0	0	0	0
02:00		21	0	17	4	0	0	0	0	0	0	0	0	0
03:00		6	0	4	1	1	0	0	0	0	0	0	0	0
04:00		8	0	6	1	1	0	0	0	0	0	0	0	0
05:00		10	0	6	4	0	0	0	0	0	0	0	0	0
06:00		23	0	14	6	1	2	0	0	0	0	0	0	0
07:00		48	0	39	5	2	0	1	1	0	0	0	0	0
08:00		98	1	66	24	2	2	0	0	3	0	0	0	0
09:00		113	0	80	24	4	2	0	0	2	1	0	0	0
10:00		134	0	93	32	7	2	0	0	0	0	0	0	0
11:00		142	1	108	24	6	1	0	2	0	0	0	0	0
12:00 pm		206	1	144	42	9	5	0	0	4	1	0	0	0
01:00		165	3	112	35	7	2	1	0	3	2	0	0	0
02:00		198	8	139	38	10	1	0	0	2	0	0	0	0
03:00		178	2	122	44	8	1	0	0	0	0	0	0	0
04:00		165	2	120	37	14	4	1	0	6	1	0	0	0
05:00		175	3	119	43	8	1	0	0	1	0	0	0	0
06:00		154	0	108	30	13	0	0	0	3	0	0	0	0
Totals		9418	113	6319	2058	631	125	29	9	89	31	5	1	3
Percent			1.2%	67.0%	21.8%	6.7%	1.3%	.3%	.1%	.9%	.3%	.0%	.0%	.0%

SAT

SUN

# Middle Ridge

Weather :  
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 File I.D. : MIDDLE RIDGE  
 Page : 5

A to B, B to A  
 WB/EB

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/05	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	168	1	110	41	7	5	0	2	1	1	0	0	0	0
11:00	259	6	159	61	22	6	1	0	3	1	0	0	0	0
12:00 pm	248	0	159	66	13	6	1	0	1	2	0	0	0	0
01:00	238	1	159	60	10	4	1	0	2	1	0	0	0	0
02:00	275	2	185	62	12	6	2	0	3	3	0	0	0	0
03:00	427	6	275	98	27	7	1	1	8	2	1	0	1	0
04:00	370	3	232	103	22	3	1	0	3	1	1	0	0	1
05:00	430	1	294	95	31	2	2	1	3	0	0	0	0	1
06:00	314	1	223	66	16	3	1	0	3	1	0	0	0	0
07:00	279	0	198	63	12	1	1	0	4	0	0	0	0	0
08:00	198	1	142	39	12	3	0	0	1	0	0	0	0	0
09:00	142	0	109	30	3	0	0	0	0	0	0	0	0	0
10:00	108	1	83	22	2	0	0	0	0	0	0	0	0	0
11:00	62	0	50	10	1	0	1	0	0	0	0	0	0	0
Day Totals	3518	23	2378	816	190	46	12	2	33	12	3	*	1	2
12:00 10/06	30	0	23	6	0	1	0	0	0	0	0	0	0	0
01:00	10	0	6	3	0	1	0	0	0	0	0	0	0	0
02:00	14	0	13	0	1	0	0	0	0	0	0	0	0	0
03:00	19	0	14	5	0	0	0	0	0	0	0	0	0	0
04:00	30	0	18	10	0	0	2	0	0	0	0	0	0	0
05:00	50	0	40	9	1	0	0	0	0	0	0	0	0	0
06:00	113	1	76	30	4	2	0	0	0	0	0	0	0	0
07:00	284	1	204	62	8	5	2	0	2	0	0	0	0	0
08:00	185	0	127	38	10	3	2	0	3	2	0	0	0	0
09:00	153	0	100	39	4	5	1	0	2	0	0	0	2	0
10:00	190	0	130	44	7	4	1	0	4	0	0	0	0	0
11:00	241	0	154	55	20	4	2	0	2	3	1	0	0	0
12:00 pm	270	2	172	79	11	4	0	0	2	0	0	0	0	0
01:00	281	0	175	75	23	6	1	0	0	1	0	0	0	0
02:00	327	4	214	76	21	6	2	0	4	0	0	0	0	0
03:00	474	4	315	104	32	4	0	0	10	2	0	0	0	1
04:00	404	1	261	107	27	2	1	0	4	1	0	0	0	0
05:00	458	1	306	103	27	11	0	1	8	1	0	0	0	0
06:00	362	4	255	76	18	6	0	0	3	0	0	0	0	0
07:00	234	2	165	49	14	3	1	0	0	0	0	0	0	0
08:00	171	0	113	50	5	2	1	0	0	0	0	0	0	0
09:00	178	0	129	43	5	1	0	0	0	0	0	0	0	0
10:00	162	0	122	32	6	1	0	0	1	0	0	0	0	0
11:00	115	0	92	19	2	0	0	0	2	0	0	0	0	0
Day Totals	4755	20	3224	1114	246	71	16	1	47	10	3	*	2	1

Thu

Fri

# Middle Ridge

Weather :  
 Counted by:  
 Board # :  
 Other :

JAMAR Technologies, Inc.  
 TAS for Windows  
 Copyright 1999

Site Code : 000100506001  
 Start Date: 10/05/2006  
 File I.D. : MIDDLE RIDGE  
 Page : 6

WB/EB

A to B, B to A

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/07	88	0	62	20	4	1	1	0	0	0	0	0	0	0
01:00	39	0	35	2	1	1	0	0	0	0	0	0	0	0
02:00	17	0	15	2	0	0	0	0	0	0	0	0	0	0
03:00	23	0	17	6	0	0	0	0	0	0	0	0	0	0
04:00	23	1	17	5	0	0	0	0	0	0	0	0	0	0
05:00	27	0	21	5	0	0	0	1	0	0	0	0	0	0
06:00	62	1	42	16	2	0	0	0	1	0	0	0	0	0
07:00	111	1	81	21	4	2	0	0	2	0	0	0	0	0
08:00	183	0	125	46	8	2	0	0	2	0	0	0	0	0
09:00	225	1	150	60	10	3	0	0	1	0	0	0	0	0
10:00	293	1	193	74	15	4	0	0	5	1	0	0	0	0
11:00	311	2	210	72	15	5	3	0	3	0	0	1	0	0
12:00 pm	327	4	218	80	13	4	1	0	6	0	0	0	0	1
01:00	318	6	207	82	17	4	1	0	1	0	0	0	0	0
02:00	359	3	348	80	15	6	0	0	5	2	0	0	0	0
03:00	345	7	336	75	17	5	0	0	4	1	0	0	0	0
04:00	313	6	228	64	9	2	0	1	2	0	0	0	0	1
05:00	321	18	225	58	13	4	0	0	2	0	1	0	0	0
06:00	313	27	204	67	11	0	0	1	3	0	0	0	0	0
07:00	271	6	185	63	10	2	1	2	2	0	0	0	0	0
08:00	190	2	140	41	6	1	0	0	0	0	0	0	0	0
09:00	143	1	99	32	8	0	0	0	3	0	0	0	0	0
10:00	121	1	88	25	4	1	0	0	1	1	0	0	0	0
11:00	106	0	92	13	0	0	1	0	0	0	0	0	0	0
Day Totals	4529	66	3138	1009	182	47	8	3	43	5	1	1	*	2
12:00 10/08	63	0	56	5	1	1	0	0	0	0	0	0	0	0
01:00	30	0	27	2	1	0	0	0	0	0	0	0	0	0
02:00	35	1	30	4	0	0	0	0	0	0	0	0	0	0
03:00	13	0	7	5	1	0	0	0	0	0	0	0	0	0
04:00	14	0	11	2	1	0	0	0	0	0	0	0	0	0
05:00	18	0	11	7	0	0	0	0	0	0	0	0	0	0
06:00	32	0	22	7	1	2	0	0	0	0	0	0	0	0
07:00	64	0	51	9	2	0	1	1	0	0	0	0	0	0
08:00	137	1	96	32	2	2	0	0	4	0	0	0	0	0
09:00	189	0	134	46	4	2	0	0	2	1	0	0	0	0
10:00	225	0	161	53	7	3	0	0	1	0	0	0	0	0
11:00	252	3	181	54	9	2	0	2	1	0	0	0	0	0
12:00 pm	348	3	247	72	11	7	0	0	6	1	0	1	0	0
01:00	278	4	195	61	7	2	1	0	6	2	0	0	0	0
02:00	322	10	227	67	11	1	1	1	4	0	0	0	0	0
03:00	311	3	223	72	10	2	0	0	1	0	0	0	0	0
04:00	318	5	214	65	17	5	2	0	9	1	0	0	0	0
05:00	302	4	217	64	10	2	1	0	2	0	2	0	0	0
06:00	271	3	194	55	14	1	0	0	4	0	0	0	0	0
Totals	16024	168	11044	3621	727	196	42	12	163	32	9	2	3	5
Percent		1.0%	68.9%	22.6%	4.5%	1.2%	.3%	.0%	1.0%	.2%	.0%	.0%	.0%	.0%

Sat

Sun

# SR-113

JAMAR Technologies, Inc.  
TAS for Windows  
Copyright 1999

Weather :  
Counted by :  
Board # :  
Other :

Site Code : 001030200601  
Start Date : 10/30/2006  
File I.D. : 113-CLASS  
Page : 1

Begin Time	Total	A to B <b>EB</b>												
		Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/30		*	*	*	*	*	*	*	*	*	*	*	*	*
01:00		*	*	*	*	*	*	*	*	*	*	*	*	*
02:00		*	*	*	*	*	*	*	*	*	*	*	*	*
03:00		*	*	*	*	*	*	*	*	*	*	*	*	*
04:00		*	*	*	*	*	*	*	*	*	*	*	*	*
05:00		*	*	*	*	*	*	*	*	*	*	*	*	*
06:00		*	*	*	*	*	*	*	*	*	*	*	*	*
07:00		*	*	*	*	*	*	*	*	*	*	*	*	*
08:00		*	*	*	*	*	*	*	*	*	*	*	*	*
09:00		*	*	*	*	*	*	*	*	*	*	*	*	*
10:00		*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	174	0	108	44	15	5	0	1	1	0	0	0	0	0
12:00 pm	185	1	116	46	14	4	1	0	2	1	0	0	0	0
01:00	164	2	105	38	13	3	0	0	3	0	0	0	0	0
02:00	173	3	109	39	11	4	0	2	4	0	1	0	0	0
03:00	201	9	116	48	16	7	0	0	2	1	0	0	0	2
04:00	207	8	124	53	15	4	1	0	1	0	1	0	0	0
05:00	168	6	109	37	12	2	1	0	0	0	1	0	0	0
06:00	129	5	77	38	8	1	0	0	0	0	0	0	0	0
07:00	62	3	43	15	1	0	0	0	0	0	0	0	0	0
08:00	61	4	45	11	1	0	0	0	0	0	0	0	0	0
09:00	45	1	31	13	0	0	0	0	0	0	0	0	0	0
10:00	40	0	29	11	0	0	0	0	0	0	0	0	0	0
11:00	17	0	13	4	0	0	0	0	0	0	0	0	0	0
Day Totals	1626	42	1025	397	106	30	3	3	13	2	3	*	*	2
12:00 10/31	6	1	5	0	0	0	0	0	0	0	0	0	0	0
01:00	6	0	5	1	0	0	0	0	0	0	0	0	0	0
02:00	10	0	9	1	0	0	0	0	0	0	0	0	0	0
03:00	9	0	9	0	0	0	0	0	0	0	0	0	0	0
04:00	38	0	22	6	0	0	0	0	0	0	0	0	0	0
05:00	106	0	69	29	7	1	0	0	0	0	0	0	0	0
06:00	194	1	123	43	15	9	1	0	2	0	0	0	0	0
07:00	281	0	179	67	21	11	1	0	2	0	0	0	0	0
08:00	214	0	134	54	15	9	1	0	1	0	0	0	0	0
09:00	194	0	122	54	13	4	0	0	1	0	0	0	0	0
10:00	158	0	100	43	9	3	1	0	2	0	0	0	0	0
11:00	143	0	93	35	11	2	0	0	0	1	0	0	0	1
12:00 pm	155	1	98	38	8	4	0	0	1	1	2	1	0	1
01:00	153	0	101	38	8	2	0	0	1	2	0	0	0	1
02:00	191	1	126	47	11	3	0	0	2	0	0	0	1	0
03:00	170	0	116	37	12	3	0	0	1	1	0	0	0	0
04:00	192	0	124	47	12	4	0	1	3	0	0	0	0	1
05:00	178	0	118	44	12	2	1	0	1	0	0	0	0	0
06:00	115	1	82	24	6	2	0	0	0	0	0	0	0	0
07:00	90	0	71	16	1	2	0	0	0	0	0	0	0	0
08:00	49	0	40	8	1	0	0	0	0	0	0	0	0	0
09:00	55	0	43	11	0	0	0	0	1	0	0	0	0	0
10:00	30	0	25	5	0	0	0	0	0	0	0	0	0	0
11:00	15	0	12	3	0	0	0	0	0	0	0	0	0	0
Day Totals	2742	5	1826	651	162	61	5	1	18	5	2	1	1	4

Mon

Tues

Tube Location on SR-113  
approx 1/2 mile West of SR-58

# SR-113

JAMAR Technologies, Inc.  
TAS for Windows  
Copyright 1999

Site Code : 001030200601  
Start Date: 10/30/2006  
File I.D. : 113-CLASS  
Page : 2

Weather :  
Counted by:  
Board # :  
Other :

A to B **EB**

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
11/01														
13:00	13	0	12	1	0	0	0	0	0	0	0	0	0	0
01:00	11	0	9	2	0	0	0	0	0	0	0	0	0	0
02:00	7	0	5	2	0	0	0	0	0	0	0	0	0	0
03:00	9	0	8	1	0	0	0	0	0	0	0	0	0	0
04:00	34	0	34	10	0	0	0	0	0	0	0	0	0	0
05:00	103	0	69	30	3	2	0	0	1	0	0	0	0	0
06:00	200	0	133	54	9	3	0	0	1	0	0	0	0	0
07:00	266	1	176	62	15	7	0	0	4	1	0	0	0	0
08:00	275	0	178	64	16	7	1	1	7	1	0	0	0	0
09:00	224	0	151	53	12	7	0	0	1	0	0	0	0	0
10:00	277	0	180	63	18	10	0	0	4	0	0	0	0	2
11:00	284	1	183	65	14	10	2	1	7	1	0	0	0	0
12:00 pm	250	0	160	65	14	7	0	1	2	0	0	0	0	1
01:00	227	2	147	54	11	3	3	0	6	1	0	0	0	0
02:00	220	0	129	62	13	7	2	1	6	0	0	0	0	0
03:00	278	2	170	68	13	11	2	1	10	0	1	0	0	0
04:00	209	6	123	56	11	5	0	2	6	0	0	0	0	0
05:00	142	0	94	40	5	1	0	0	0	0	0	0	0	0
06:00	120	0	83	30	3	3	1	0	0	0	0	0	0	0
07:00	82	1	58	17	0	3	1	0	2	0	0	0	0	0
08:00	83	0	58	22	1	2	0	0	0	0	0	0	0	0
09:00	46	0	34	12	0	0	0	0	0	0	0	0	0	0
10:00	40	1	32	7	0	0	0	0	0	0	0	0	0	0
11:00	21	1	17	3	0	0	0	0	0	0	0	0	0	0
Day Totals	3423	15	2333	843	158	88	12	7	59	4	1	*	*	3
11/02														
12:00	7	0	5	2	0	0	0	0	0	0	0	0	0	0
01:00	11	0	8	3	0	0	0	0	0	0	0	0	0	0
02:00	13	0	10	2	0	0	0	0	1	0	0	0	0	0
03:00	7	0	5	2	0	0	0	0	0	0	0	0	0	0
04:00	36	1	22	13	0	0	0	0	0	0	0	0	0	0
05:00	97	0	69	28	0	0	0	0	0	0	0	0	0	0
06:00	184	2	114	54	6	6	1	0	1	0	0	0	0	0
07:00	300	4	192	71	11	13	7	0	1	0	0	0	0	1
08:00	200	0	135	48	10	4	0	1	1	1	0	0	0	0
09:00	192	0	119	55	12	4	1	0	1	0	0	0	0	0
10:00	181	1	114	52	10	3	0	0	0	0	1	0	0	0
11:00	170	5	102	44	10	7	0	0	2	0	0	0	0	0
12:00 pm	158	3	89	47	11	3	0	0	4	1	0	0	0	0
01:00	198	0	127	51	12	5	1	0	1	1	0	0	0	0
02:00	187	0	124	41	6	7	1	0	6	0	1	0	0	1
03:00	178	0	111	45	11	4	1	1	5	0	0	0	0	0
04:00	166	0	107	41	6	4	1	1	6	0	0	0	0	0
05:00	172	1	110	43	2	7	1	0	7	0	0	0	0	1
06:00	147	1	103	35	2	3	0	0	1	1	1	0	0	0
07:00	86	1	65	16	1	2	1	0	0	0	0	0	0	0
08:00	70	0	54	14	0	1	1	0	0	0	0	0	0	0
09:00	55	0	38	14	1	0	2	0	0	0	0	0	0	0
10:00	43	0	34	8	0	0	1	0	0	0	0	0	0	0
11:00	15	1	12	2	0	0	0	0	0	0	0	0	0	0
Day Totals	2873	20	1869	731	111	73	19	3	37	4	3	*	*	5

Wed

Thu

# SR-113

Weather :  
 Counted by:  
 Board # :  
 Other :

JAMAR Technologies, Inc.  
 TAS for Windows  
 Copyright 1999

Site Code : 001030200601  
 Start Date: 10/30/2006  
 File I.D. : 113-CLASS  
 Page : 3

Begin Time	Total	A to B <b>EB</b>												
		Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 11/03	15	0	14	1	0	0	0	0	0	0	0	0	0	0
01:00	13	1	7	4	0	1	0	0	0	0	0	0	0	0
02:00	7	0	4	3	0	0	0	0	0	0	0	0	0	0
Totals	10699	83	6978	2630	537	253	39	14	127	15	9	1	1	12
Percent		.7%	65.3%	24.5%	5.0%	2.3%	.3%	.1%	1.1%	.1%	.0%	.0%	.0%	.1%

Fri

# SR-113

JAMAR Technologies, Inc.  
TAS for Windows  
Copyright 1999

Weather :  
Counted by :  
Board # :  
Other :

Site Code : 001030200601  
Start Date: 10/30/2000  
File F.D. : 113-CLASS  
Page : 1

S to A **WB**

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 10/30														
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	357	1	188	74	57	19	4	3	7	1	0	0	0	3
12:00 pm	343	2	178	81	54	15	6	0	3	3	0	0	0	1
01:00	350	3	193	66	49	17	7	2	5	6	1	0	1	0
02:00	408	6	231	93	51	13	3	2	1	6	0	0	0	2
03:00	506	10	276	118	55	25	3	2	7	4	0	1	0	5
04:00	554	16	329	120	55	14	5	2	7	4	1	0	0	1
05:00	481	15	294	95	46	14	2	0	6	4	0	0	0	3
06:00	301	3	184	67	31	8	1	2	2	1	0	0	1	1
07:00	194	2	138	40	12	1	0	0	0	1	0	0	0	0
08:00	160	3	116	26	13	3	0	0	0	0	0	0	0	0
09:00	133	2	89	28	10	2	0	0	1	0	0	0	0	1
10:00	93	1	62	17	7	4	0	0	1	1	0	0	0	0
11:00	57	1	44	9	2	0	0	0	0	0	0	0	0	1
Day Totals	5937	65	3322	834	441	135	31	13	40	31	4	1	2	18
12:00 10/31	16	0	11	3	1	0	0	0	0	1	0	0	0	0
01:00	9	0	7	2	0	0	0	0	0	0	0	0	0	0
02:00	20	0	12	4	1	1	0	0	0	0	1	0	0	1
03:00	24	0	13	7	2	1	0	0	0	0	0	0	0	1
04:00	35	0	17	6	10	1	1	0	0	0	0	0	0	0
05:00	136	0	63	24	43	3	0	0	1	0	0	1	0	1
06:00	294	0	141	48	86	13	1	0	3	1	1	0	0	0
07:00	456	2	223	92	89	25	2	5	7	4	0	0	1	6
08:00	314	4	129	69	77	14	4	2	4	5	1	1	0	4
09:00	317	2	146	78	65	12	4	1	0	4	1	1	0	3
10:00	262	0	138	63	43	6	2	3	2	2	1	0	0	2
11:00	308	2	155	66	48	21	4	2	7	2	0	0	0	1
12:00 pm	369	0	139	68	39	9	3	2	2	3	1	0	0	3
01:00	361	2	208	77	51	10	3	1	3	4	0	1	0	1
02:00	389	1	218	78	62	15	4	1	4	2	0	0	0	4
03:00	456	2	267	104	45	15	1	1	7	10	1	0	0	3
04:00	512	5	296	108	54	22	3	0	8	5	1	1	0	3
05:00	429	4	252	100	44	10	4	3	8	3	0	1	0	0
06:00	252	0	156	52	26	13	1	0	3	0	0	0	0	1
07:00	189	0	134	40	11	2	0	0	2	0	0	0	0	0
08:00	179	1	131	30	12	3	0	0	1	0	0	0	0	1
09:00	91	0	69	16	5	2	0	0	0	0	0	0	0	0
10:00	75	0	58	12	3	0	0	0	0	1	0	0	0	1
11:00	43	0	32	10	1	0	0	0	0	0	0	0	0	0
Day Totals	5436	25	3014	1157	618	204	37	21	62	47	8	6	1	36

Mon

Tues

# SR-113

Weather :  
 Counted by :  
 Board # :  
 Other :

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Site Code : 001030200601  
 Start Date: 10/30/2006  
 File I.D. : 113-CLASS  
 Page : 2

B to A **WB**

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 11/01	28	0	20	5	3	0	0	0	0	0	0	0	0	0
01:00	16	0	9	2	2	2	0	0	0	1	0	0	0	0
02:00	17	0	10	6	0	0	0	0	0	0	0	0	0	0
03:00	12	0	5	5	2	0	0	0	0	0	0	0	0	1
04:00	27	0	14	8	4	0	0	0	0	0	9	0	0	0
05:00	86	0	40	19	17	5	1	0	2	0	0	0	0	2
06:00	238	2	117	53	48	8	2	1	2	5	0	0	0	0
07:00	411	1	221	89	65	12	2	3	4	4	3	0	0	2
08:00	402	3	211	80	64	22	3	4	6	6	0	0	0	3
09:00	399	1	215	91	57	14	5	1	8	2	1	1	0	3
10:00	470	7	255	99	66	16	5	3	3	9	2	0	0	5
11:00	429	5	233	83	66	22	1	3	7	5	1	1	0	2
12:00 pm	454	4	261	96	58	16	5	1	4	4	0	0	1	4
01:00	348	0	189	83	51	6	2	1	7	2	0	0	0	0
02:00	420	0	242	83	55	20	1	1	9	7	0	0	0	2
03:00	435	0	232	102	59	16	6	1	10	6	0	0	1	2
04:00	484	4	284	120	42	17	2	0	6	4	2	0	0	3
05:00	364	0	236	84	28	5	0	0	7	4	0	0	0	0
06:00	246	0	162	58	18	3	1	0	2	2	0	0	0	0
07:00	155	1	115	25	6	5	0	0	1	1	0	1	0	0
08:00	202	0	132	50	15	5	0	0	0	0	0	0	0	0
09:00	105	1	81	15	4	2	0	0	0	1	0	0	0	1
10:00	69	1	48	11	5	2	1	0	0	0	0	0	0	1
11:00	36	0	26	8	0	0	0	0	0	1	0	0	0	1
Day Totals	5853	30	3358	1275	735	198	37	19	83	69	11	3	2	33
12:00 11/02	24	0	19	3	1	1	0	0	0	0	0	0	0	0
01:00	19	0	13	2	1	3	0	0	0	0	0	0	0	0
02:00	19	0	10	6	0	1	1	0	0	0	0	0	0	1
03:00	14	0	8	5	0	0	0	0	1	0	0	0	0	0
04:00	31	1	10	5	3	0	2	0	0	0	0	0	0	0
05:00	55	0	20	10	17	4	0	0	1	0	0	0	0	1
06:00	130	0	58	20	37	10	0	0	4	1	0	0	0	0
07:00	234	0	111	46	51	13	3	0	7	2	0	0	0	1
08:00	233	1	106	52	41	16	9	4	1	1	1	0	0	1
09:00	265	2	116	68	47	20	2	0	4	5	0	0	0	1
10:00	277	2	130	59	56	19	1	0	4	3	2	0	0	1
11:00	297	1	172	59	35	15	3	1	3	6	0	0	0	2
12:00 pm	323	2	178	71	37	18	1	3	6	1	3	0	0	3
01:00	319	3	167	72	42	20	1	2	5	1	0	0	0	1
02:00	348	1	197	82	36	14	2	1	7	2	2	0	1	3
03:00	380	1	221	85	39	12	2	2	12	3	2	0	0	1
04:00	430	1	264	97	29	21	0	2	5	6	1	1	0	3
05:00	334	1	204	76	21	14	2	3	6	5	0	0	0	2
06:00	264	1	173	57	21	6	1	0	3	1	0	0	0	1
07:00	173	0	123	31	6	13	0	0	0	0	0	0	0	0
08:00	132	0	102	20	6	3	0	1	0	0	0	0	0	0
09:00	119	0	77	32	7	1	1	0	0	0	0	0	0	1
10:00	66	0	44	12	8	1	0	0	0	0	0	0	0	1
11:00	51	0	40	9	1	1	0	0	0	0	0	0	0	1
Day Totals	4527	17	2563	981	542	226	31	19	69	41	12	1	1	24

Wed

Thu

SR-113

Weather :  
Counted by:  
Board # :  
Other :

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TAS for Windows  
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Site Code : 001030200601  
Start Date: 10/30/2006  
File I.D. : 113-CLASS  
Page : 3

Pro A WB

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
11:00 11/03	29	0	19	5	1	3	0	0	0	2	0	0	0	0
01:00	13	0	8	0	3	2	0	0	0	1	0	0	0	0
03:00	8	0	5	2	0	0	0	0	0	1	0	0	0	0
Totals	19803	137	11289	4254	2539	767	136	73	354	192	35	11	6	111
Percent		.6%	57.0%	21.4%	12.8%	3.8%	.6%	.3%	1.2%	.9%	.1%	.0%	.0%	.5%

Fri

# SR-113

Weather :  
 Counted by :  
 Board # :  
 Other :

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 TAS for Windows  
 Copyright 1999

Site Code : 001030200601  
 Start Date : 10/30/2006  
 File I.D. : 113-CLASS  
 Page : 1

EB/WB

Begin Time	Total	A to B, B to A														
		Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13		
12:00 10/30		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	531	1	296	118	72	24	4	4	8	1	0	0	0	0	0	3
12:00 pm	528	3	294	127	68	19	7	0	5	4	0	0	0	0	0	1
01:00	514	5	298	104	62	20	7	2	8	6	1	0	0	1	0	0
02:00	581	9	340	132	62	17	3	4	5	6	1	0	0	0	0	2
03:00	707	19	392	166	71	32	3	2	9	5	0	1	0	0	0	7
04:00	761	24	453	173	70	18	6	2	8	4	2	0	0	0	0	1
05:00	649	21	403	132	58	16	3	0	6	4	3	0	0	0	0	3
06:00	430	8	261	105	39	9	1	3	2	1	0	0	0	1	1	1
07:00	256	5	181	55	13	1	0	0	0	1	0	0	0	0	0	0
08:00	221	7	161	37	13	3	0	0	0	0	0	0	0	0	0	0
09:00	178	3	120	41	10	2	0	0	1	0	0	0	0	0	0	0
10:00	133	1	91	29	7	4	0	0	1	1	0	0	0	0	0	1
11:00	74	1	57	13	2	0	0	0	0	0	0	0	0	0	0	1
Day Totals	5563	107	3347	1231	547	163	34	16	53	33	7	1	2	20		
12:00 10/31	22	1	16	3	1	0	0	0	0	1	0	0	0	0	0	0
01:00	15	0	12	3	0	0	0	0	0	0	0	0	0	0	0	0
02:00	30	0	21	5	1	1	0	0	0	0	1	0	0	0	0	1
03:00	33	0	22	7	2	1	0	0	0	0	0	0	0	0	0	1
04:00	63	0	39	12	10	1	1	0	0	0	0	0	0	0	0	0
05:00	242	0	132	53	50	4	0	0	1	0	0	1	0	0	0	1
06:00	488	1	264	91	101	22	2	0	5	1	1	0	0	0	0	5
07:00	737	2	402	159	110	36	3	5	9	4	0	0	0	1	0	6
08:00	528	4	263	123	92	23	5	2	5	5	1	1	0	0	4	4
09:00	511	2	268	132	78	16	4	1	1	4	1	1	0	0	3	3
10:00	420	0	238	106	52	9	3	3	4	2	1	0	0	0	2	2
11:00	451	2	248	101	59	23	4	2	7	3	0	0	0	0	2	2
12:00 pm	424	1	237	106	47	13	3	2	3	4	3	1	0	0	4	4
01:00	514	2	309	115	59	12	3	1	4	6	0	1	0	0	2	2
02:00	590	2	344	125	73	18	4	1	6	2	0	0	1	0	4	4
03:00	626	2	383	141	57	18	1	1	8	11	1	0	0	0	3	3
04:00	704	5	420	155	66	32	3	1	11	5	1	1	0	0	4	4
05:00	607	4	370	144	56	12	5	3	9	3	0	1	0	0	5	5
06:00	367	1	238	76	32	15	1	0	3	0	0	0	0	0	1	1
07:00	279	0	205	56	12	4	0	0	2	0	0	0	0	0	0	0
08:00	228	1	171	38	13	3	0	0	1	0	0	0	0	0	1	1
09:00	146	0	111	27	5	2	0	0	1	0	0	0	0	0	0	0
10:00	105	0	83	17	3	0	0	0	0	1	0	0	0	0	1	1
11:00	58	0	44	13	1	0	0	0	0	0	0	0	0	0	1	1
Day Totals	8178	30	4840	1808	980	265	42	22	80	52	10	7	2	40		

Mon

Tue

SR-113

JAMAR Technologies, Inc.  
TAS for Windows  
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Weather :  
Counted by :  
Board # :  
Other :

Site Code : 001030000601  
Start Date : 10/30/2006  
File T.D. : 113-CLASS  
Page : 2

EB/WB

A to B, B to A

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 11/01	41	0	32	6	3	0	0	0	0	0	0	0	0	0
01:00	27	0	18	4	2	2	0	0	0	1	0	0	0	0
02:00	24	0	15	8	0	0	0	0	0	0	0	0	0	1
03:00	21	0	13	6	2	0	0	0	0	0	0	0	0	0
04:00	61	0	38	18	4	0	0	0	0	0	0	0	0	1
05:00	191	0	109	49	20	7	1	0	3	0	0	0	0	2
06:00	438	2	250	107	57	11	2	1	3	5	0	0	0	0
07:00	677	2	397	151	80	19	2	3	13	5	3	0	0	2
08:00	677	3	389	144	80	29	4	5	13	7	0	0	0	3
09:00	623	1	366	144	69	21	5	1	9	2	1	1	0	3
10:00	747	7	435	162	84	26	5	3	7	9	2	0	0	7
11:00	713	6	416	148	80	32	3	4	14	6	1	1	0	2
12:00 pm	704	4	421	161	72	23	5	2	6	4	0	0	1	5
01:00	575	2	336	137	62	9	5	1	13	8	2	0	0	0
02:00	640	0	371	145	68	27	3	2	15	7	0	0	0	2
03:00	713	2	402	170	72	27	8	2	20	6	1	0	1	2
04:00	693	10	407	176	53	22	2	2	12	4	2	0	0	3
05:00	506	0	330	124	33	6	0	0	9	4	0	0	0	0
06:00	366	0	345	88	21	6	2	0	2	2	0	0	0	0
07:00	237	2	173	42	6	8	1	0	3	1	0	1	0	0
08:00	285	0	190	72	16	7	0	0	0	0	0	0	0	0
09:00	151	1	115	27	4	2	0	0	0	1	0	0	0	1
10:00	109	2	80	18	5	2	1	0	0	0	0	0	0	1
11:00	57	1	43	11	0	0	0	0	0	1	0	0	0	1
Day Totals	9276	45	5591	2118	895	286	49	26	142	73	12	3	2	36
12:00 11/02	31	0	24	5	1	1	0	0	0	0	0	0	0	0
01:00	30	0	21	5	1	3	0	0	0	0	0	0	0	0
02:00	32	0	20	8	0	1	1	0	1	0	0	0	0	1
03:00	21	0	13	7	0	0	0	0	1	0	0	0	0	0
04:00	57	2	32	18	3	0	2	0	0	0	0	0	0	0
05:00	152	0	89	40	17	4	0	0	1	0	0	0	0	1
06:00	314	2	172	74	43	16	1	0	5	1	0	0	0	0
07:00	534	4	303	117	62	26	10	0	8	2	0	0	0	2
08:00	433	1	241	100	51	20	9	5	2	2	1	0	0	1
09:00	457	2	235	123	59	24	3	0	5	5	0	0	0	1
10:00	458	3	244	111	66	22	1	0	4	3	3	0	0	1
11:00	467	6	274	103	45	22	3	1	5	6	0	0	0	2
12:00 pm	481	5	267	118	48	21	1	3	10	2	3	0	0	3
01:00	517	3	294	123	54	25	2	2	16	6	1	0	0	1
02:00	535	1	321	123	42	21	3	1	13	2	3	0	1	4
03:00	558	1	332	130	50	16	3	3	17	3	2	0	0	1
04:00	596	1	371	138	35	25	1	3	11	6	1	1	0	3
05:00	506	2	314	119	23	21	3	3	13	5	0	0	0	3
06:00	411	2	276	92	23	9	1	0	4	2	1	0	0	1
07:00	259	1	188	47	7	15	1	0	0	0	0	0	0	0
08:00	202	0	156	34	6	4	1	1	0	0	0	0	0	0
09:00	174	0	115	46	8	1	3	0	0	0	0	0	0	1
10:00	109	0	78	20	8	1	1	0	0	0	0	0	0	1
11:00	66	1	52	11	1	1	0	0	0	0	0	0	0	0
Day Totals	7400	37	4432	1712	655	299	50	22	106	45	15	1	1	27

Wed

Thu

# SR-113

JAMAR Technologies, Inc.  
TAS for Windows  
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Site Code : 001030200601  
Start Date: 10/30/2006  
File I.D. : 113-CLASS  
Page : 3

Weather :  
Counted by:  
Board # :  
Other :

A to B, B to A **EB/WB**

Begin Time	Total	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8	Class 9	Class 10	Class 11	Class 12	Class 13
12:00 11/03	44	0	33	6	1	2	0	0	0	2	0	0	0	0
01:00	26	1	15	4	2	3	0	0	0	1	0	0	0	0
02:00	15	0	9	3	0	0	0	0	0	1	0	0	0	0
Totals	30502	220	18267	6884	3076	1030	175	86	381	207	44	12	7	123
Percent		.7%	59.8%	22.5%	10.0%	3.3%	.5%	.2%	1.2%	.6%	.1%	.0%	.0%	.4%

Fri

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & SR58  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Existing Conditions & Traffic Optimized Timing  
 E/W St: SR-113 N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	1	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	105	176	12	38	81	98	13	265	17	126	287	40
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
WB Left		A			SB Left	A		
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green		7.0	10.0			8.2	14.8	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	211	1805	0.55	0.12	28.2	C		
TR	597	3584	0.35	0.17	22.5	C	24.5	C
Westbound								
L	211	1805	0.20	0.12	24.4	C		
TR	553	3320	0.36	0.17	22.6	C	22.9	C
Northbound								
L	247	1805	0.06	0.14	22.6	C		
TR	884	3585	0.35	0.25	18.9	B	19.1	B
Southbound								
L	247	1805	0.57	0.14	27.3	C		
T	469	1900	0.68	0.25	24.4	C	24.6	C
R	398	1615	0.11	0.25	17.6	B		
Intersection Delay = 23.0 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & SR58  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Existing Conditions & Traffic Optimized Timing  
 E/W St: SR-113 N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	1	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	98	98	25	55	207	155	23	365	43	90	271	117
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
WB Left		A			SB Left	A		
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green		7.0	11.8			7.0	14.2	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	211	1805	0.52	0.12	27.1	C		
TR	690	3507	0.20	0.20	20.3	C	23.3	C
Westbound								
L	211	1805	0.29	0.12	25.0	C		
TR	666	3385	0.60	0.20	23.5	C	23.7	C
Northbound								
L	211	1805	0.12	0.12	24.0	C		
TR	843	3560	0.54	0.24	20.7	C	20.9	C
Southbound								
L	211	1805	0.47	0.12	26.5	C		
T	450	1900	0.67	0.24	24.6	C	23.7	C
R	382	1615	0.34	0.24	19.5	B		
Intersection Delay = 22.9 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Existing Conditions & Traffic Optimized Timing  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	2	0	1	2	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	68	176	204	105	124	140	81	299	106	40	345	55
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
WB Left		A			SB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green	32.6				13.5	28.9		
Yellow	4.0				4.0	4.0		
All Red	1.0				1.0	1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	323	893	0.24	0.36	20.4	C		
TR	633	1747	0.67	0.36	26.9	C	25.9	C
Westbound								
L	217	600	0.54	0.36	25.4	C		
TR	634	1749	0.46	0.36	22.5	C	23.4	C
Northbound								
L	271	1805	0.33	0.15	34.9	C		
TR	1116	3475	0.40	0.32	24.1	C	25.9	C
Southbound								
L	271	1805	0.16	0.15	33.6	C		
TR	1138	3543	0.39	0.32	23.9	C	24.8	C

Intersection Delay = 25.1 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 AM Existing Conditions & Traffic Optimized Timing  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	2	0	1	2	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	100	192	157	149	229	94	189	501	108	47	408	123
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
WB Left		A			SB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green	30.6				18.0	26.4		
Yellow	4.0				4.0	4.0		
All Red	1.0				1.0	1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	241	708	0.46	0.34	24.6	C		
TR	602	1772	0.64	0.34	27.4	C	26.8	C
Westbound								
L	218	640	0.76	0.34	41.0	D		
TR	618	1817	0.58	0.34	25.8	C	30.6	C
Northbound								
L	361	1805	0.58	0.20	35.0-	C		
TR	1033	3521	0.66	0.29	29.3	C	30.7	C
Southbound								
L	361	1805	0.14	0.20	29.8	C		
TR	1024	3492	0.58	0.29	27.8	C	28.0	C

Intersection Delay = 29.2 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp.  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Existing Conditions & Traffic Optimized Timing  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	0	0	1	0	1	0	2	0	1	2	0
LGConfig				L		R		TR		L	T	
Volume				32		66	496	48		162	509	
Lane Width				12.0		12.0	12.0			12.0	12.0	
RTOR Vol						0			0			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru					Thru	A		
Right					Right	A		
Peds	X				Peds	X		
WB Left		A			SB Left	A	A	
Thru					Thru	A	A	
Right		A			Right			
Peds	X				Peds			
NB Right					EB Right			
SB Right					WB Right		A	
Green	28.1				39.9	7.0		
Yellow	4.0				4.0	4.0		
All Red	1.0				1.0	1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

Westbound

L	564	1805	0.06	0.31	21.8	C	16.9	B
R	720	1615	0.10	0.45	14.5	B		

Northbound

TR	1583	3570	0.38	0.44	16.9	B	16.9	B
----	------	------	------	------	------	---	------	---

Southbound

L	547	1805	0.33	0.58	14.1	B		
T	2086	3618	0.27	0.58	9.6	A	10.7	B

Intersection Delay = 13.8 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Existing Conditions & Traffic Optimized Timing  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	0	0	1	0	1	0	2	0	1	2	0
LGConfig				L		R		TR		L	T	
Volume				57		158	636	29		79	579	
Lane Width				12.0		12.0	12.0			12.0	12.0	
RTOR Vol						0			0			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru					Thru	A		
Right					Right	A		
Peds	X				Peds	X		
WB Left		A			SB Left	A	A	
Thru					Thru	A	A	
Right		A			Right			
Peds	X				Peds			
NB Right					EB Right			
SB Right					WB Right		A	
Green	27.8				40.2	7.0		
Yellow	4.0				4.0	4.0		
All Red	1.0				1.0	1.0		

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

Westbound

L	558	1805	0.11	0.31	22.4	C	17.6	B
R	714	1615	0.25	0.44	15.9	B		

Northbound

TR	1605	3594	0.46	0.45	17.6	B	17.6	B
----	------	------	------	------	------	---	------	---

Southbound

L	488	1805	0.18	0.58	13.9	B		
T	2098	3618	0.31	0.58	9.7	A	10.2	B

Intersection Delay = 14.4 (sec/veh) Intersection LOS = B

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 10/9/06  
 Analysis Time Period: AM Peak  
 Intersection: Middle Ridge & Pyle  
 Jurisdiction: Amherst Twp  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID: 2006 AM Peak Existing Conditions & Traffic  
 East/West Street: Middle Ridge Rd.  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		36	55	36	17	40	27
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		36	55	36	17	40	27
Percent Heavy Vehicles		5	--	--	5	--	--
Median Type/Storage		Undivided			/		
RT Channelized?					/		
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		15	64	10	40	92	62
Peak Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		15	64	10	40	92	62
Percent Heavy Vehicles		5	5	5	5	5	5
Percent Grade (%)		0			0		
Flared Approach: Exists?/Storage		No			/	No	
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		

Delay, Queue Length, and Level of Service

Approach Movement	NB 1	SB 4	Westbound			Eastbound		
			7	8	9	10	11	12
Lane Config	LTR	LTR	LTR	LTR	LTR	LTR	LTR	
v (vph)	36	17	89			194		
C(m) (vph)	1516	1485	630			703		
v/c	0.02	0.01	0.14			0.28		
95% queue length	0.07	0.03	0.49			1.12		
Control Delay	7.4	7.5	11.7			12.1		
LOS	A	A	B			B		
Approach Delay			11.7			12.1		
Approach LOS			B			B		

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 10/9/06  
 Analysis Time Period: PM Peak  
 Intersection: Middle Ridge & Pyle  
 Jurisdiction: Amherst Twp  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID: 2006 PM Peak Existing Conditions & Traffic  
 East/West Street: Middle Ridge Rd.  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		62	75	26	9	71	29
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		62	75	26	9	71	29
Percent Heavy Vehicles		5	--	--	5	--	--
Median Type/Storage		Undivided			/		
RT Channelized?					/		
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		30	105	10	21	48	52
Peak Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		30	105	10	21	48	52
Percent Heavy Vehicles		5	5	5	5	5	5
Percent Grade (%)		0			0		
Flared Approach: Exists?/Storage		No			/	No	
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		

Delay, Queue Length, and Level of Service

Approach Movement	NB 1	SB 4	Westbound			Eastbound		
			7	8	9	10	11	12
Lane Config	LTR	LTR	LTR	LTR	LTR	LTR	LTR	
v (vph)	62	9	145			121		
C(m) (vph)	1474	1473	557			654		
v/c	0.04	0.01	0.26			0.19		
95% queue length	0.13	0.02	1.04			0.67		
Control Delay	7.5	7.5	13.7			11.7		
LOS	A	A	B			B		
Approach Delay			13.7			11.7		
Approach LOS			B			B		

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Existing Conditions & Traffic Optimized Timing  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	36	217	12	13	121	28	18	22	28	90	66	99
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds	X				Peds	X		
WB Left	P				SB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds	X				Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	24.6				25.4			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 730 1781 0.40 0.41 14.2 B 14.2 B

Westbound

LTR 737 1797 0.24 0.41 12.4 B 12.4 B

Northbound

LTR 683 1613 0.11 0.42 10.8 B 10.8 B

Southbound

LTR 662 1564 0.43 0.42 14.2 B 14.2 B

Intersection Delay = 13.5 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Existing Conditions & Traffic Optimized Timing  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	50	150	8	31	270	73	16	60	16	63	44	59
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds	X				Peds	X		
WB Left	P				SB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds	X				Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	27.0				23.0			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 716 1591 0.32 0.45 11.8 B 11.8 B

Westbound

LTR 801 1781 0.52 0.45 14.2 B 14.2 B

Northbound

LTR 670 1748 0.15 0.38 12.6 B 12.6 B

Southbound

LTR 596 1556 0.31 0.38 14.3 B 14.3 B

Intersection Delay = 13.5 (sec/veh) Intersection LOS = B

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp.  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 25% Traffic, Proposed Geometry  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	1	0	1	2	0	1	2	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	213	84	129	32	225	66	346	496	48	162	509	571
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A	A	NB Left	A	A	A
Thru			A	A	Thru		A	A
Right			A	A	Right		A	A
Peds				X	Peds			X
WB Left		A		A	SB Left	A		A
Thru				A	Thru			A
Right				A	Right			A
Peds				X	Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	8.3	1.0	21.1		10.0	3.2	36.4	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 100.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	334	1805	0.71	0.35	34.8	C		
TR	727	3289	0.32	0.22	32.9	C	33.9	C
Westbound								
L	393	1805	0.09	0.29	25.5	C		
TR	387	1836	0.83	0.21	52.3	D	49.7	D
Northbound								
L	405	1805	0.95	0.55	52.0	D		
TR	1414	3570	0.43	0.40	22.2	C	33.7	C
Southbound								
L	436	1805	0.41	0.46	16.7	B		
TR	1212	3331	0.99	0.36	55.0+	E	50.0	D

Intersection Delay = 42.6 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp.  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 25% Traffic, Proposed Geometry  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	2	2	0	1	2	0	1	2	0	1	2	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	213	84	129	32	225	66	346	496	48	162	509	571
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A	A	NB Left	A	A	A
Thru			A	A	Thru		A	A
Right			A	A	Right		A	A
Peds				X	Peds			X
WB Left		A		A	SB Left	A		A
Thru				A	Thru			A
Right				A	Right			A
Peds				X	Peds			X
NB Right					EB Right			
SB Right		A	A		WB Right			
Green	8.9	3.2	16.2		7.2	2.2	22.3	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
<b>Eastbound</b>								
L	1090	3505	0.22	0.42	15.0	B		
TR	798	3289	0.30	0.24	24.9	C	20.0-	B
<b>Westbound</b>								
L	434	1805	0.08	0.31	19.3	B		
TR	708	3495	0.46	0.20	28.5	C	27.6	C
<b>Northbound</b>								
L	439	1805	0.87	0.46	34.0	C		
TR	1093	3570	0.55	0.31	23.8	C	27.7	C
<b>Southbound</b>								
L	340	1805	0.53	0.37	19.5	B		
T	1009	3618	0.56	0.28	25.4	C	20.1	C
R	896	1615	0.71	0.55	15.6	B		
Intersection Delay = 23.3 (sec/veh)					Intersection LOS = C			

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Existing Conditions & Traffic Optimized Timing  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	2	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	819	279	541	57	151	158	335	533	29	79	475	487
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A	A	NB Left	A	A	A
Thru			A	A	Thru		A	A
Right			A	A	Right		A	A
Peds				X	Peds			X
WB Left		A		A	SB Left	A		A
Thru				A	Thru			A
Right				A	Right			A
Peds				X	Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	10.2	42.7	12.1		13.7	2.7	38.6	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 140.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
<b>Eastbound</b>								
L	800	1805	1.14	0.50	111.0	F		
TR	1276	3260	0.71	0.39	37.9	D	74.4	E
<b>Westbound</b>								
L	186	1805	0.34	0.16	52.4	D		
TR	289	3340	1.19	0.09	178.7	F	159.1	F
<b>Northbound</b>								
L	330	1805	1.13	0.43	132.6	F		
TR	1059	3590	0.59	0.29	43.0	D	76.4	E
<b>Southbound</b>								
L	314	1805	0.28	0.37	30.2	C		
TR	922	3343	1.16	0.28	134.6	F	126.6	F

Intersection Delay = 96.6 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak Future 25% Traffic, Proposed Geometry  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	2	2	0	1	2	0	1	2	0	1	2	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	819	279	541	57	151	158	335	533	29	79	475	487
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	A
Thru			A	A	Thru		A	A
Right			A	A	Right		A	A
Peds				X	Peds			X
WB Left		A		A	SB Left	A		A
Thru				A	Thru			A
Right				A	Right			A
Peds				X	Peds			X
NB Right					EB Right			
SB Right		A	A		WB Right			
Green	7.0	31.5	16.6		7.8	8.0	19.1	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 110.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
<b>Eastbound</b>								
L	1386	3505	0.66	0.40	28.3	C		
TR	1426	3260	0.64	0.44	25.1	C	26.7	C
<b>Westbound</b>								
L	205	1805	0.31	0.21	36.0	D		
TR	504	3340	0.68	0.15	48.0	D	46.1	D
<b>Northbound</b>								
L	410	1805	0.91	0.36	54.6	D		
TR	884	3590	0.71	0.25	40.4	D	45.7	D
<b>Southbound</b>								
L	226	1805	0.39	0.24	34.3	C		
T	628	3618	0.84	0.17	54.0	D	33.3	C
R	992	1615	0.55	0.61	12.9	B		
Intersection Delay = 34.6 (sec/veh)					Intersection LOS = C			

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 10/9/06  
 Analysis Time Period: AM Peak  
 Intersection: Middle Ridge & Pyle  
 Jurisdiction: Amherst Twp  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID:  
 East/West Street: Middle Ridge Rd.  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		58	77	58	32	100	27
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		58	77	58	32	100	27
Percent Heavy Vehicles		5	--	--	5	--	--
Median Type/Storage		Undivided			/		
RT Channelized?					/		
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		75	70	16	40	107	122
Peak Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		75	70	16	40	107	122
Percent Heavy Vehicles		5	5	5	5	5	5
Percent Grade (%)		0			0		
Flared Approach: Exists?/Storage		No			/	No	
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		

Delay, Queue Length, and Level of Service

Approach Movement	NB	SB	Westbound			Eastbound		
			7	8	9	10	11	12
Lane Config	LTR	LTR	LTR	LTR	LTR	LTR	LTR	
v (vph)	58	32	161			269		
C(m) (vph)	1441	1431	408			602		
v/c	0.04	0.02	0.39			0.45		
95% queue length	0.13	0.07	1.85			2.30		
Control Delay	7.6	7.6	19.5			15.7		
LOS	A	A	C			C		
Approach Delay			19.5			15.7		
Approach LOS			C			C		

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 10/9/06  
 Analysis Time Period: PM Peak  
 Intersection: Middle Ridge & Pyle  
 Jurisdiction: Amherst Twp  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID:  
 East/West Street: Middle Ridge Rd.  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		136	149	100	19	111	29
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		136	149	100	19	111	29
Percent Heavy Vehicles		5	--	--	5	--	--
Median Type/Storage		Undivided			/		
RT Channelized?							
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		70	124	29	21	58	92
Peak Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	1.00
Hourly Flow Rate, HFR		70	124	29	21	58	92
Percent Heavy Vehicles		5	5	5	5	5	5
Percent Grade (%)		0			0		
Flared Approach: Exists?/Storage		No			/		
Lanes		0	1	0	0	1	0
Configuration		LTR			LTR		

Delay, Queue Length, and Level of Service

Approach Movement	NB 1 LTR	SB 4 LTR	Westbound			Eastbound		
			7	8 LTR	9	10	11 LTR	12
v (vph)	136	19	223			171		
C(m) (vph)	1425	1299	322			452		
v/c	0.10	0.01	0.69			0.38		
95% queue length	0.32	0.04	4.85			1.74		
Control Delay	7.8	7.8	37.9			17.7		
LOS	A	A	E			C		
Approach Delay			37.9			17.7		
Approach LOS			E			C		

Analyst: RAW Inter.: Middle Ridge & Pyle SA  
 Agency: HNTB Area Type: All other areas  
 Date: 3/2/07 Jurisd: Amherst Township  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 25% Traffic, Proposed Signal  
 E/W St: Middle Ridge N/S St: Pyle South Amherst

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	40	107	122	75	70	16	58	77	58	32	100	27
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A				SB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	25.5				24.5			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 711 1672 0.42 0.43 12.5 B 12.5 B

Westbound

LTR 605 1424 0.30 0.43 11.6 B 11.6 B

Northbound

LTR 647 1585 0.33 0.41 12.4 B 12.4 B

Southbound

LTR 693 1698 0.26 0.41 11.9 B 11.9 B

Intersection Delay = 12.2 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: Middle Ridge & Pyle SA  
 Agency: HNTB Area Type: All other areas  
 Date: 3/2/07 Jurisd: Amherst Township  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak Future 25% Traffic, Proposed Signal  
 E/W St: Middle Ridge N/S St: Pyle South Amherst

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	21	71	143	121	148	53	234	247	198	32	162	29
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A				SB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	21.5				38.5			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 512 1666 0.51 0.31 20.8 C 20.8 C

Westbound

LTR 405 1317 0.88 0.31 42.7 D 42.7 D

Northbound

LTR 801 1457 0.94 0.55 33.7 C 33.7 C

Southbound

LTR 885 1609 0.28 0.55 8.6 A 8.6 A

Intersection Delay = 29.8 (sec/veh) Intersection LOS = C

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 3/1/07  
 Analysis Time Period: AM Peak  
 Intersection: Pyle & Proposed  
 Jurisdiction: Amherst Township  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID:  
 East/West Street: Proposed Road  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		106	180	180	180	186	
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00	1.00	
Hourly Flow Rate, HFR		106	180	180	180	186	
Percent Heavy Vehicles		--	--	0	--	--	
Median Type/Storage		Undivided			/		
RT Channelized?							
Lanes		1	0		0	1	
Configuration			TR		LT		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		67		67			
Peak Hour Factor, PHF		1.00		1.00			
Hourly Flow Rate, HFR		67		67			
Percent Heavy Vehicles		0		0			
Percent Grade (%)			0			0	
Flared Approach: Exists?/Storage					/		/
Lanes		1		1			
Configuration		L		R			

Delay, Queue Length, and Level of Service

Approach	NB	SB	Westbound			Eastbound		
			4 LT	7 L	8 R	9 R	10	11
Movement	1							
Lane Config								
v (vph)	180	67			67			
C(m) (vph)	1288	332			850			
v/c	0.14	0.20			0.08			
95% queue length	0.49	0.74			0.26			
Control Delay	8.2	18.6			9.6			
LOS	A	C			A			
Approach Delay					14.1			
Approach LOS					B			

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 3/1/07  
 Analysis Time Period: PM Peak  
 Intersection: Pyle & Proposed  
 Jurisdiction: Amherst Township  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID:  
 East/West Street: Proposed Road  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		145	154	154	126		
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR		145	154	154	126		
Percent Heavy Vehicles		--	--	0	--	--	
Median Type/Storage		Undivided			/		
RT Channelized?							
Lanes		1	0		0	1	
Configuration			TR		LT		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		259	258				
Peak Hour Factor, PHF		1.00	1.00				
Hourly Flow Rate, HFR		259	258				
Percent Heavy Vehicles		0	0				
Percent Grade (%)			0			0	
Flared Approach: Exists?/Storage				/			/
Lanes		1	1				
Configuration		L	R				

Delay, Queue Length, and Level of Service

Approach Movement	NB	SB	Westbound			Eastbound		
			4 LT	7 L	8 R	9 R	10	11
v (vph)	154	259			258			
C(m) (vph)	1274	381			823			
v/c	0.12	0.68			0.31			
95% queue length	0.41	4.84			1.34			
Control Delay	8.2	32.3			11.4			
LOS	A	D			B			
Approach Delay					21.8			
Approach LOS					C			

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Future 25% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	126	232	12	19	127	88	18	52	43	112	77	133
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	P		
Thru		P			Thru	P		
Right		P			Right	P		
Peds		X			Peds	X		
WB Left		P			SB Left	P		
Thru		P			Thru	P		
Right		P			Right	P		
Peds		X			Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	25.7				24.3			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 654 1526 0.63 0.43 17.9 B 17.9 B

Westbound

LTR 738 1722 0.35 0.43 12.9 B 12.9 B

Northbound

LTR 675 1666 0.19 0.41 12.1 B 12.1 B

Southbound

LTR 612 1512 0.58 0.41 18.0 B 18.0 B

Intersection Delay = 16.2 (sec/veh) Intersection LOS = B

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Future 25% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	126	232	12	50	289	113	16	80	26	137	81	171
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds	X				Peds	X		
WB Left	P				SB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds	X				Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	26.1				23.9			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
LTR	549	1263	0.75	0.44	23.2	C	23.2	C
Westbound								
LTR	733	1686	0.69	0.44	18.8	B	18.8	B
Northbound								
LTR	682	1713	0.20	0.40	12.5	B	12.5	B
Southbound								
LTR	592	1485	0.73	0.40	23.0	C	23.0	C

Intersection Delay = 20.7 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & SR58  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 25% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	1	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	135	187	23	38	111	218	43	460	17	171	360	51
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
WB Left		A			SB Left	A	A	
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds			X		Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green		7.0	10.7			7.0	2.1	13.2
Yellow		4.0	4.0			4.0	0.0	4.0
All Red		1.0	1.0			1.0	0.0	1.0

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	211	1805	0.71	0.12	36.2	D		
TR	634	3557	0.37	0.18	22.0	C	27.6	C
Westbound								
L	211	1805	0.20	0.12	24.4	C		
TR	581	3258	0.63	0.18	25.0	C	24.9	C
Northbound								
L	211	1805	0.23	0.12	24.6	C		
TR	792	3598	0.67	0.22	23.6	C	23.7	C
Southbound								
L	424	1805	0.45	0.23	20.4	C		
T	484	1900	0.83	0.25	32.4	C	27.5	C
R	412	1615	0.14	0.25	17.4	B		
Intersection Delay = 25.9 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & SR58  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak Future 25% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	1	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	118	135	62	55	227	236	43	496	43	239	513	154
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
WB Left		A			SB Left	A	A	
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds			X		Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	8.5	17.3			7.1	7.7	19.4	
Yellow	4.0	4.0			4.0	0.0	4.0	
All Red	1.0	1.0			1.0	0.0	1.0	

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
<b>Eastbound</b>								
L	192	1805	0.68	0.11	44.0	D		
TR	745	3447	0.29	0.22	26.5	C	33.0	C
<b>Westbound</b>								
L	192	1805	0.32	0.11	34.0	C		
TR	722	3341	0.71	0.22	32.3	C	32.5	C
<b>Northbound</b>								
L	160	1805	0.30	0.09	35.2	D		
TR	867	3574	0.69	0.24	29.9	C	30.3	C
<b>Southbound</b>								
L	447	1805	0.60	0.25	28.7	C		
T	644	1900	0.89	0.34	38.9	D	33.0	C
R	547	1615	0.31	0.34	19.9	B		
Intersection Delay = 32.2 (sec/veh)					Intersection LOS = C			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Future 25% Traffic, Existing Geometry  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	2	0	1	2	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	234	187	79	300	155	140	92	428	179	40	690	85
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
WB Left	A				SB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green	10.3	19.4			7.3	23.0		
Yellow	4.0	4.0			4.0	4.0		
All Red	1.0	1.0			1.0	1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	377	1805	0.69	0.43	21.8	C		
TR	440	1815	0.67	0.24	31.4	C	26.9	C
Westbound								
L	404	1805	0.82	0.43	30.0	C		
TR	428	1764	0.77	0.24	36.3	D	33.2	C
Northbound								
L	165	1805	0.62	0.09	41.9	D		
TR	994	3458	0.68	0.29	27.1	C	29.1	C
Southbound								
L	165	1805	0.27	0.09	34.7	C		
TR	1023	3558	0.84	0.29	33.2	C	33.3	C

Intersection Delay = 30.9 (sec/veh) Intersection LOS = C

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak, Future 25% Traffic, Existing Geometry  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	2	0	1	2	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	137	229	177	280	249	94	226	929	431	47	640	143
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	A
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds			X		Peds	X	X	
WB Left	A	A	A		SB Left	A		A
Thru		A	A		Thru			A
Right		A	A		Right			A
Peds		X	X		Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	7.6	2.8	32.6		7.0	1.0	49.0	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	264	1805	0.58	0.33	33.1	C		
TR	482	1776	0.94	0.27	68.5	E	59.6	E
Westbound								
L	295	1805	1.05	0.40	100.7	F		
TR	537	1822	0.71	0.29	42.0	D	68.4	E
Northbound								
L	325	1805	0.77	0.52	31.3	C		
TR	1436	3446	1.05	0.42	73.8	E	67.7	E
Southbound								
L	168	1805	0.31	0.47	27.3	C		
TR	1437	3518	0.61	0.41	28.6	C	28.6	C

Intersection Delay = 57.5 (sec/veh) Intersection LOS = E

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Future 25% Traffic, Existing Geometry  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	2	1	1	2	0
LGConfig	L	TR		L	TR		L	T	R	L	TR	
Volume	234	187	79	300	155	140	92	428	179	40	690	85
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0	12.0	12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
WB Left	A				SB Left	A		
Thru		A			Thru		A	
Right		A			Right		A	
Peds		X			Peds		X	
NB Right	A				EB Right			
SB Right					WB Right			
Green	10.3	19.5			7.1	23.1		
Yellow	4.0	4.0			4.0	4.0		
All Red	1.0	1.0			1.0	1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	379	1805	0.69	0.44	21.5	C		
TR	442	1815	0.67	0.24	31.2	C	26.7	C
Westbound								
L	405	1805	0.82	0.44	29.7	C		
TR	430	1764	0.76	0.24	36.0	D	32.8	C
Northbound								
L	160	1805	0.64	0.09	43.4	D		
T	1045	3618	0.46	0.29	23.6	C	23.4	C
R	775	1615	0.26	0.48	12.5	B		
Southbound								
L	160	1805	0.28	0.09	35.0-	C		
TR	1027	3558	0.84	0.29	33.0	C	33.1	C

Intersection Delay = 29.2 (sec/veh) Intersection LOS = C

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak, Future 25% Traffic, Existing Geometry  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	2	1	1	2	0
LGConfig	L	TR		L	TR		L	T	R	L	TR	
Volume	137	229	177	280	249	94	226	929	431	47	640	143
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0	12.0	12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A	A		NB Left	A	A	A
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds			X		Peds		X	X
WB Left	A	A	A		SB Left	A		A
Thru		A	A		Thru			A
Right		A	A		Right			A
Peds		X	X		Peds			X
NB Right	A	A			EB Right			
SB Right					WB Right			
Green	7.5	6.7	38.1		7.0	1.0	39.7	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 120.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	364	1805	0.42	0.38	26.3	C		
TR	564	1776	0.80	0.32	45.5	D	40.7	D
Westbound								
L	374	1805	0.83	0.48	42.3	D		
TR	680	1822	0.56	0.37	30.8	C	36.0	D
Northbound								
L	260	1805	0.97	0.44	78.9	E		
T	1227	3618	0.84	0.34	42.1	D	41.0	D
R	873	1615	0.55	0.54	18.7	B		
Southbound								
L	168	1805	0.31	0.39	27.7	C		
TR	1164	3518	0.75	0.33	38.4	D	37.8	D

Intersection Delay = 39.3 (sec/veh) Intersection LOS = D

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp.  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 67% Traffic, Proposed Geometry  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	3	2	0	1	2	0	2	3	0	1	3	0
LGConfig	L	T		L	TR		L	TR		L	T	
Volume	490	194		32	564	66	864	496	48	162	509	
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol						0			0			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A	A	
Thru			A	A	Thru		A	A
Right					Right		A	A
Peds				X	Peds			X
WB Left		A		A	SB Left	A		A
Thru				A	Thru			A
Right				A	Right			
Peds				X	Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	7.0	1.9	15.9		9.8	5.4	10.0	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	976	4917	0.56	0.20	26.0	C		
T	920	3618	0.23	0.25	20.8	C	24.5	C
Westbound								
L	447	1805	0.08	0.33	16.2	B		
TR	809	3561	0.87	0.23	35.7	D	34.8	C
Northbound								
L	1011	3505	0.95	0.29	41.9	D		
TR	1124	5107	0.54	0.22	24.7	C	35.2	D
Southbound								
L	365	1805	0.49	0.28	21.0	C		
T	739	5176	0.77	0.14	33.7	C	30.7	C

Intersection Delay = 32.1 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Turnpike  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak Future 67% Traffic, Proposed Geometry  
 E/W St: Turnpike Toll Plaza N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	3	2	0	1	2	0	2	3	0	1	3	0
LGConfig	L	T		L	TR		L	TR		L	T	
Volume	1796	645		57	341	158	672	487	29	79	430	
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol						0			0			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A	A	A
Thru			A	A	Thru		A	A
Right					Right		A	A
Peds				X	Peds			X
WB Left		A		A	SB Left	A		A
Thru				A	Thru			A
Right				A	Right			
Peds				X	Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	11.2	34.8	20.3		8.5	2.7	12.5	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 110.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	2280	4917	0.88	0.46	30.8	C		
T	1812	3618	0.40	0.50	17.2	B	27.2	C
Westbound								
L	317	1805	0.20	0.29	29.3	C		
TR	636	3446	0.87	0.18	56.3	E	53.6	D
Northbound								
L	813	3505	0.92	0.26	55.5	E		
TR	709	5132	0.81	0.14	52.9	D	54.4	D
Southbound								
L	208	1805	0.42	0.19	39.4	D		
T	588	5176	0.81	0.11	56.2	E	53.5	D

Intersection Delay = 40.1 (sec/veh) Intersection LOS = D

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: Middle Ridge & Pyle SA  
 Agency: HNTB Area Type: All other areas  
 Date: 3/2/07 Jurisd: Amherst Township  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 67% Traffic, Proposed Signal  
 E/W St: Middle Ridge N/S St: Pyle South Amherst

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	40	130	212	165	77	23	88	107	88	55	190	27
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A				SB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	27.0				23.0			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 745 1656 0.57 0.45 13.2 B 13.2 B

Westbound

LTR 469 1042 0.63 0.45 15.4 B 15.4 B

Northbound

LTR 570 1487 0.55 0.38 15.6 B 15.6 B

Southbound

LTR 634 1653 0.48 0.38 14.5 B 14.5 B

Intersection Delay = 14.6 (sec/veh) Intersection LOS = B

HCS+: Signalized Intersections Release 5.2

Analyst: RAW  
 Agency: HNTB  
 Date: 3/2/07  
 Period: PM Peak  
 Project ID: 2006 PM Peak Future 67% Traffic, Proposed Signal  
 E/W St: Middle Ridge

Inter.: Middle Ridge & Pyle SA  
 Area Type: All other areas  
 Jurisd: Amherst Township  
 Year : 2006  
 N/S St: Pyle South Amherst

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	21	58	92	70	124	29	136	149	100	19	111	29
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
WB Left	A				SB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	22.6				27.4			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

LTR 629 1670 0.30 0.38 13.4 B 13.4 B

Westbound

LTR 597 1585 0.42 0.38 14.3 B 14.3 B

Northbound

LTR 685 1500 0.62 0.46 14.2 B 14.2 B

Southbound

LTR 791 1733 0.22 0.46 10.0+ B 10.0+ B

Intersection Delay = 13.4 (sec/veh) Intersection LOS = B

Analyst: RAW Inter.:  
 Agency: HNTB Area Type: All other areas  
 Date: 3/2/07 Jurisd:  
 Period: AM Peak Year :  
 Project ID: 2006 AM Peak Future 67% Traffic, Proposed Signal  
 E/W St: N/S St:

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	0	0	1	0	1	0	1	0	1	1	0
LGConfig				L		R		TR		L	T	
Volume				155		155	106	451		451	186	
Lane Width				12.0		12.0	12.0			12.0	12.0	
RTOR Vol						0			0			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru					Thru	A		
Right					Right	A		
Peds					Peds	X		
WB Left	A				SB Left	A	A	
Thru					Thru	A	A	
Right	A				Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right	A		
Green	25.0				17.6	52.4		
Yellow	4.0				4.0	4.0		
All Red	1.0				1.0	1.0		

Cycle Length: 110.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

Westbound

L	410	1805	0.42	0.23	37.0	D	28.5	C
R	699	1615	0.25	0.43	20.0-	B		

Northbound

TR	806	1692	0.77	0.48	28.3	C	28.3	C
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Southbound

L	542	1805	0.92	0.68	36.8	D		
T	1295	1900	0.16	0.68	6.3	A	27.9	C

Intersection Delay = 28.2 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: Pyle SA & Proposed  
 Agency: HNTB Area Type: All other areas  
 Date: 3/2/07 Jurisd: Amherst Township  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak Future 67% Traffic, Proposed Signal  
 E/W St: Proposed Road N/S St: Pyle South Amherst

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	0	0	1	0	1	0	1	0	1	1	0
LGConfig				L		R		TR		L	T	
Volume				567		567		131	320	320	139	
Lane Width				12.0		12.0		12.0		12.0	12.0	
RTOR Vol						0			0			

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru					Thru	A		
Right					Right	A		
Peds					Peds	X		
WB Left	A				SB Left	A	A	
Thru					Thru	A	A	
Right		A			Right			
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right	A		
Green	36.9				12.2	35.9		
Yellow	4.0				4.0	4.0		
All Red	1.0				1.0	1.0		

Cycle Length: 100.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS

Eastbound

Westbound

L	666	1805	0.95	0.37	53.1	D	36.6	D
R	874	1615	0.72	0.54	20.2	C		

Northbound

TR	617	1718	0.81	0.36	37.2	D	37.2	D
----	-----	------	------	------	------	---	------	---

Southbound

L	383	1805	0.93	0.53	46.9	D		
T	1009	1900	0.15	0.53	12.0	B	36.4	D

Intersection Delay = 36.7 (sec/veh) Intersection LOS = D

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 3/1/07  
 Analysis Time Period: AM Peak  
 Intersection: Pyle & Proposed  
 Jurisdiction: Amherst Township  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID: 2006 AM Peak Future 67% Traffic, Existing Geometry  
 East/West Street: Proposed Road  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		106	451	451	186		
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR		106	451	451	186		
Percent Heavy Vehicles		--	--	0	--	--	
Median Type/Storage		Undivided			/		
RT Channelized?							
Lanes		1	0		0	1	
Configuration			TR		LT		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		155	155				
Peak Hour Factor, PHF		1.00	1.00				
Hourly Flow Rate, HFR		155	155				
Percent Heavy Vehicles		0	0				
Percent Grade (%)			0			0	
Flared Approach: Exists?/Storage					/		/
Lanes		1	1				
Configuration		L	R				

Delay, Queue Length, and Level of Service

Approach Movement	NB	SB	Westbound			Eastbound		
			4 LT	7 L	8 R	9 R	10	11
v (vph)		451	155		155			
C(m) (vph)		1024	85		714			
v/c		0.44	1.82		0.22			
95% queue length		2.29	13.17		0.82			
Control Delay		11.3	495.5		11.4			
LOS		B	F		B			
Approach Delay				253.5				
Approach LOS				F				

TWO-WAY STOP CONTROL SUMMARY

Analyst: RAW  
 Agency/Co.: HNTB  
 Date Performed: 3/1/07  
 Analysis Time Period: PM Peak  
 Intersection: Pyle & Proposed  
 Jurisdiction: Amherst Township  
 Units: U. S. Customary  
 Analysis Year: 2006  
 Project ID: 2006 PM Peak Future 67% Traffic, Existing Geometry  
 East/West Street: Proposed Road  
 North/South Street: Pyle South Amherst Rd.  
 Intersection Orientation: NS Study period (hrs): 0.25

Vehicle Volumes and Adjustments

Major Street:	Approach Movement	Northbound			Southbound		
		1 L	2 T	3 R	4 L	5 T	6 R
Volume		131	320	320	139		
Peak-Hour Factor, PHF		1.00	1.00	1.00	1.00		
Hourly Flow Rate, HFR		131	320	320	139		
Percent Heavy Vehicles		--	--	0	--	--	
Median Type/Storage		Undivided			/		
RT Channelized?							
Lanes		1	0		0	1	
Configuration			TR		LT		
Upstream Signal?		No			No		

Minor Street:	Approach Movement	Westbound			Eastbound		
		7 L	8 T	9 R	10 L	11 T	12 R
Volume		567		567			
Peak Hour Factor, PHF		1.00		1.00			
Hourly Flow Rate, HFR		567		567			
Percent Heavy Vehicles		0		0			
Percent Grade (%)			0			0	
Flared Approach: Exists?/Storage					/		/
Lanes		1		1			
Configuration		L		R			

Delay, Queue Length, and Level of Service

Approach Movement	NB	SB	Westbound			Eastbound		
			4 LT	7 L	8 R	9 R	10	11
v (vph)		320		567		567		
C(m) (vph)		1120		176		753		
v/c		0.29		3.22		0.75		
95% queue length		1.19		52.89		7.02		
Control Delay		9.5		1054		22.8		
LOS		A		F		C		
Approach Delay					538.4			
Approach LOS					F			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Future 67% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	261	255	12	26	134	178	18	98	66	142	92	176
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	A				NB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds	X				Peds	X		
WB Left	A				SB Left	A		
Thru	A				Thru	A		
Right	A				Right	A		
Peds	X				Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	29.5				20.5			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
LTR	610	1240	0.96	0.49	41.6	D	41.6	D
Westbound								
LTR	815	1657	0.46	0.49	10.4	B	10.4	B
Northbound								
LTR	584	1708	0.35	0.34	15.1	B	15.1	B
Southbound								
LTR	497	1455	0.92	0.34	41.0	D	41.0	D

Intersection Delay = 30.9 (sec/veh) Intersection LOS = C

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Future 67% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	1	0	0	1	0	0	1	0	0	1	0
LGConfig	LTR			LTR			LTR			LTR		
Volume	186	173	8	74	313	164	16	105	39	235	130	317
Lane Width	12.0			12.0			12.0			12.0		
RTOR Vol	0			0			0			0		

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		P			NB Left	P		
Thru		P			Thru	P		
Right		P			Right	P		
Peds		X			Peds	X		
WB Left		P			SB Left	P		
Thru		P			Thru	P		
Right		P			Right	P		
Peds		X			Peds	X		
NB Right					EB Right			
SB Right					WB Right			
Green	26.1				23.9			
Yellow	4.0				4.0			
All Red	1.0				1.0			

Cycle Length: 60.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
LTR	403	927	1.01	0.44	64.9	E	64.9	E
Westbound								
LTR	716	1646	0.85	0.44	27.7	C	27.7	C
Northbound								
LTR	679	1705	0.26	0.40	13.1	B	13.1	B
Southbound								
LTR	587	1473	1.29	0.40	160.8	F	160.8	F

Intersection Delay = 85.7 (sec/veh) Intersection LOS = F

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Future 67% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	1	0	1	1	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	261	255	12	26	134	178	18	98	66	142	92	176
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left		A	
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
WB Left		A			SB Left	A		A
Thru			A		Thru	A		A
Right			A		Right	A		A
Peds			X		Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green		7.0	20.6			7.0	15.4	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 70.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	387	1805	0.75	0.47	25.1	C		
TR	555	1887	0.53	0.29	21.7	C	23.4	C
Westbound								
L	429	1805	0.07	0.47	10.9	B		
TR	511	1737	0.68	0.29	25.4	C	24.3	C
Northbound								
L	242	1098	0.08	0.22	21.8	C		
TR	393	1786	0.46	0.22	24.6	C	24.3	C
Southbound								
L	430	1805	0.37	0.39	15.0	B		
TR	671	1713	0.44	0.39	16.2	B	15.8	B

Intersection Delay = 21.6 (sec/veh) Intersection LOS = C

Analyst: RAW Inter.: SR113 & Pyle  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: South Amherst  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Future 67% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: Pyle South Amherst Rd.

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	1	0	1	1	0	1	1	0	1	1	0
LGConfig	L	TR		L	TR		L	TR		L	TR	
Volume	186	173	8	74	313	164	16	105	39	235	130	317
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left		A	
Thru			A		Thru		A	
Right			A		Right		A	
Peds			X		Peds		X	
WB Left		A			SB Left	A		A
Thru			A		Thru	A		A
Right			A		Right	A		A
Peds			X		Peds		X	
NB Right					EB Right			
SB Right					WB Right			
Green		7.0	38.6			7.1	27.3	
Yellow		4.0	4.0			4.0	4.0	
All Red		1.0	1.0			1.0	1.0	

Cycle Length: 100.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	286	1805	0.72	0.51	26.8	C		
TR	728	1887	0.28	0.39	21.3	C	24.1	C
Westbound								
L	557	1805	0.15	0.51	13.2	B		
TR	696	1802	0.76	0.39	31.7	C	29.2	C
Northbound								
L	195	716	0.09	0.27	27.3	C		
TR	498	1823	0.32	0.27	29.3	C	29.1	C
Southbound								
L	442	1805	0.59	0.39	27.6	C		
TR	669	1698	0.74	0.39	30.4	C	29.4	C

Intersection Delay = 28.2 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & SR58  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Peak Future 67% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	1	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	180	202	38	38	156	398	88	753	17	229	455	66
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			A	A	Thru		A	
Right			A	A	Right		A	
Peds				X	Peds		X	
WB Left	A				SB Left	A	A	
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds				X	Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	12.1	2.1	20.3		7.1	3.2	25.2	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 90.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
<b>Eastbound</b>								
L	385	1805	0.52	0.21	32.6	C		
TR	879	3532	0.30	0.25	27.7	C	29.8	C
<b>Westbound</b>								
L	243	1805	0.17	0.13	34.9	C		
TR	728	3228	0.84	0.23	42.4	D	41.9	D
<b>Northbound</b>								
L	142	1805	0.69	0.08	53.7	D		
TR	1010	3606	0.85	0.28	37.4	D	39.1	D
<b>Southbound</b>								
L	307	1805	0.83	0.17	52.9	D		
T	600	1900	0.84	0.32	39.3	D	42.0	D
R	510	1615	0.14	0.32	22.2	C		
Intersection Delay = 39.1 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR113 & SR58  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak Future 67% Traffic, Existing Geometry  
 E/W St: SR-113 N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	1	2	0	1	2	0	1	2	0	1	1	1
LGConfig	L	TR		L	TR		L	TR		L	T	R
Volume	143	184	111	55	252	337	68	661	43	434	830	203
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0		12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A		
Thru			A	A	Thru		A	
Right			A	A	Right		A	
Peds				X	Peds		X	
WB Left		A			SB Left	A	A	
Thru				A	Thru		A	A
Right				A	Right		A	A
Peds				X	Peds			X
NB Right					EB Right			
SB Right					WB Right			
Green	8.0	1.3	28.0		7.2	24.2	41.3	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 130.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	199	1805	0.80	0.11	76.6	E		
TR	769	3413	0.43	0.23	43.5	D	54.3	D
Westbound								
L	111	1805	0.55	0.06	65.0	E		
TR	712	3307	0.92	0.22	66.9	E	66.7	E
Northbound								
L	100	1805	0.76	0.06	88.8	F		
TR	1139	3584	0.69	0.32	40.4	D	44.7	D
Southbound								
L	505	1805	0.95	0.28	74.8	E		
T	957	1900	0.96	0.50	51.8	D	54.0	D
R	814	1615	0.28	0.50	18.8	B		
Intersection Delay = 54.4 (sec/veh)					Intersection LOS = D			

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: AM Peak Year : 2006  
 Project ID: 2006 AM Future 67% Traffic, Existing Geometry  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	2	1	1	2	1	0	1	3	1	1	3	1
LGConfig	L	T	R	L	TR		L	T	R	L	T	R
Volume	279	202	94	593	200	140	107	596	274	40	1191	130
Lane Width	12.0	12.0	12.0	12.0	12.0		12.0	12.0	12.0	12.0	12.0	12.0
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A	A	A
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds			X		Peds			X
WB Left	A	A			SB Left	A		A
Thru		A	A		Thru			A
Right		A	A		Right			A
Peds			X		Peds			X
NB Right	A	A			EB Right	A		
SB Right					WB Right			
Green	10.9	3.2	16.0		7.0	1.2	21.7	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	478	3505	0.65	0.14	35.8	D		
T	380	1900	0.59	0.20	31.4	C	31.4	C
R	565	1615	0.18	0.35	18.2	B		
Westbound								
L	837	3505	0.79	0.24	33.6	C		
TR	428	1782	0.88	0.24	48.4	D	39.0	D
Northbound								
L	393	1805	0.30	0.44	16.1	B		
T	1482	5176	0.45	0.29	23.6	C	18.6	B
R	949	1615	0.32	0.59	8.6	A		
Southbound								
L	333	1805	0.13	0.36	17.1	B		
T	1404	5176	0.94	0.27	41.3	D	38.9	D
R	438	1615	0.33	0.27	23.8	C		

Intersection Delay = 32.6 (sec/veh) Intersection LOS = C

HCS+: Signalized Intersections Release 5.2

Analyst: RAW Inter.: SR58 & Middle Ridge  
 Agency: HNTB Area Type: All other areas  
 Date: 10/9/06 Jurisd: Amherst Twp  
 Period: PM Peak Year : 2006  
 Project ID: 2006 PM Peak, Future 67% Traffic, Existing Geometry  
 E/W St: Middle Ridge Rd. N/S St: SR-58

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	2	1	0	2	1	0	1	3	1	1	3	0
LGConfig	L	TR		L	TR		L	T	R	L	TR	
Volume	202	278	186	445	474	94	275	1490	748	47	931	168
Lane Width	12.0	12.0		12.0	12.0		12.0	12.0	12.0	12.0	12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left		A			NB Left	A	A	A
Thru			A		Thru		A	A
Right			A		Right		A	A
Peds			X		Peds			X
WB Left	A	A			SB Left	A		A
Thru		A	A		Thru			A
Right		A	A		Right			A
Peds			X		Peds			X
NB Right	A	A			EB Right			
SB Right					WB Right			
Green	10.1	4.1	34.0		7.0	4.4	30.4	
Yellow	4.0	0.0	4.0		4.0	0.0	4.0	
All Red	1.0	0.0	1.0		1.0	0.0	1.0	

Cycle Length: 110.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios		Lane Group		Approach	
			v/c	g/C	Delay	LOS	Delay	LOS
Eastbound								
L	322	3505	0.70	0.09	54.9	D		
TR	552	1786	0.93	0.31	60.3	E	58.7	E
Westbound								
L	612	3505	0.81	0.17	51.5	D		
TR	642	1853	0.98	0.35	66.7	E	60.0	E
Northbound								
L	338	1805	0.91	0.43	56.2	E		
T	1637	5176	1.01	0.32	62.7	E	56.9	E
R	866	1615	0.96	0.54	45.7	D		
Southbound								
L	184	1805	0.28	0.34	29.4	C		
TR	1398	5057	0.87	0.28	44.4	D	43.8	D

Intersection Delay = 54.9 (sec/veh) Intersection LOS = D