

SRF No. 8765 South Metro Signal Timing
 Location: CSAH 11 and TH 212 North Ramps
 SRF Consulting Group/MnDOT

File Name : CSAH 11 and TH 212 North Ramps
 Site Code :
 Start Date : 3/12/2015
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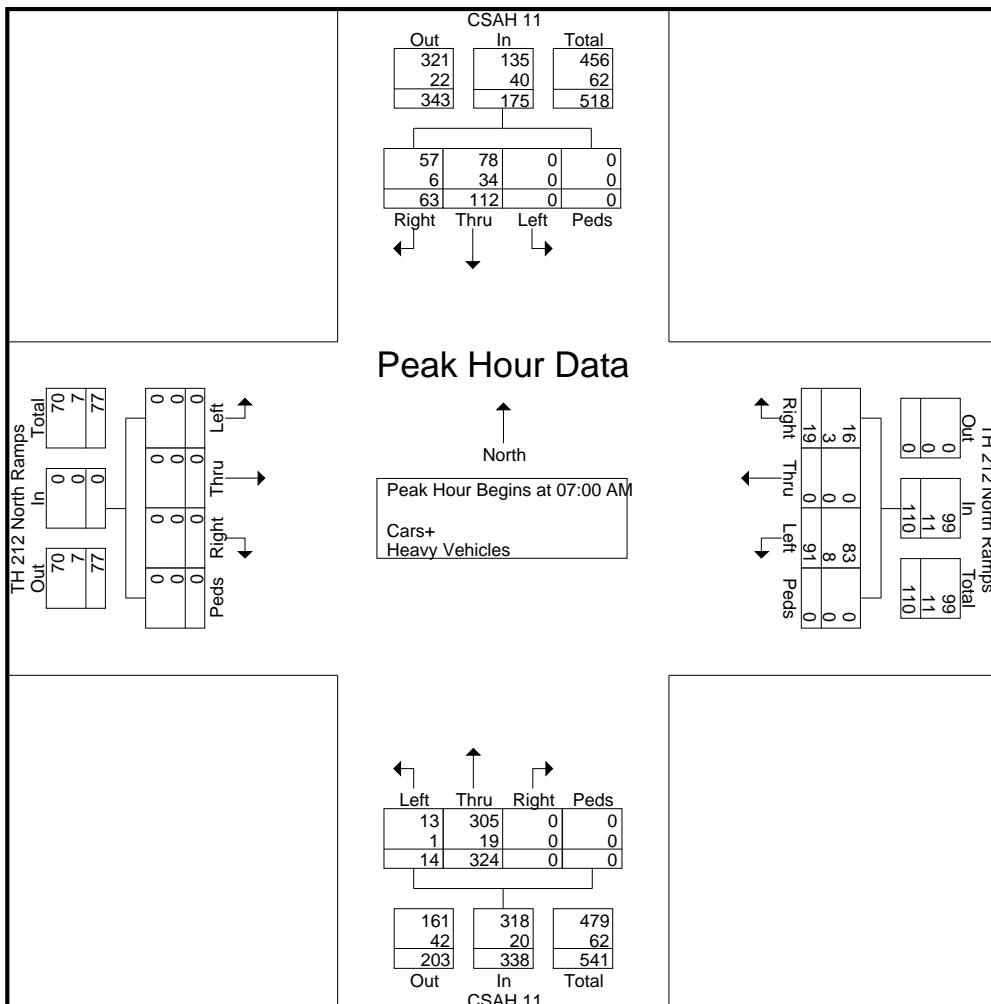
Groups Printed- Cars+ - Heavy Vehicles

Start Time	CSAH 11 From North					TH 212 North Ramps From East					CSAH 11 From South					TH 212 North Ramps From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
06:00 AM	10	6	0	0	16	0	0	12	0	12	0	37	1	0	38	0	0	0	0	0	66
06:15 AM	13	9	0	0	22	1	0	13	0	14	0	62	1	0	63	0	0	0	0	0	99
06:30 AM	7	29	0	0	36	0	0	27	0	27	0	58	1	0	59	0	0	0	0	0	122
06:45 AM	16	19	0	0	35	0	0	23	0	23	0	82	5	0	87	0	0	0	0	0	145
Total	46	63	0	0	109	1	0	75	0	76	0	239	8	0	247	0	0	0	0	0	432
07:00 AM	15	24	0	0	39	5	0	23	0	28	0	81	3	0	84	0	0	0	0	0	151
07:15 AM	17	29	0	0	46	0	0	21	0	21	0	73	4	0	77	0	0	0	0	0	144
07:30 AM	12	36	0	0	48	10	0	25	0	35	0	88	4	0	92	0	0	0	0	0	175
07:45 AM	19	23	0	0	42	4	0	22	0	26	0	82	3	0	85	0	0	0	0	0	153
Total	63	112	0	0	175	19	0	91	0	110	0	324	14	0	338	0	0	0	0	0	623
08:00 AM	20	22	0	0	42	8	0	18	0	26	0	59	4	0	63	0	0	0	0	0	131
08:15 AM	21	25	0	0	46	4	0	17	0	21	0	57	5	0	62	0	0	0	0	0	129
08:30 AM	12	31	0	0	43	6	0	21	0	27	0	46	2	0	48	0	0	0	0	0	118
08:45 AM	10	26	0	0	36	6	0	20	0	26	0	64	0	0	64	0	0	0	0	0	126
Total	63	104	0	0	167	24	0	76	0	100	0	226	11	0	237	0	0	0	0	0	504
*** BREAK ***																					
11:00 AM	21	24	0	0	45	8	0	20	0	28	0	38	1	0	39	0	0	0	0	0	112
11:15 AM	23	19	0	0	42	11	0	35	0	46	0	39	2	0	41	0	0	0	0	0	129
11:30 AM	16	27	0	0	43	14	0	24	0	38	0	33	2	0	35	0	0	0	0	0	116
11:45 AM	20	12	0	0	32	10	0	25	0	35	0	38	2	0	40	0	0	0	0	0	107
Total	80	82	0	0	162	43	0	104	0	147	0	148	7	0	155	0	0	0	0	0	464
12:00 PM	23	28	0	0	51	13	0	38	0	51	0	31	0	0	31	0	0	0	0	0	133
12:15 PM	20	24	0	0	44	15	0	27	0	42	0	30	2	0	32	0	0	0	0	0	118
12:30 PM	21	19	0	0	40	14	0	28	0	42	0	33	0	0	33	0	0	0	0	0	115
12:45 PM	21	19	0	0	40	4	0	22	0	26	0	32	2	0	34	0	0	0	0	0	100
Total	85	90	0	0	175	46	0	115	0	161	0	126	4	0	130	0	0	0	0	0	466
*** BREAK ***																					
03:00 PM	42	49	0	0	91	14	0	134	0	148	0	39	7	0	46	0	0	0	0	0	285
03:15 PM	53	50	0	0	103	15	0	159	0	174	0	49	2	0	51	0	0	0	0	0	328
03:30 PM	80	44	0	0	124	25	0	164	0	189	0	62	3	0	65	0	0	0	0	0	378
03:45 PM	55	50	0	0	105	22	0	152	0	174	0	54	4	0	58	0	0	0	0	0	337
Total	230	193	0	0	423	76	0	609	0	685	0	204	16	0	220	0	0	0	0	0	1328
04:00 PM	42	53	0	0	95	17	0	127	0	144	0	38	6	0	44	0	0	0	0	0	283
04:15 PM	55	48	0	0	103	19	0	163	0	182	0	51	2	0	53	0	0	0	0	0	338
04:30 PM	82	45	0	0	127	28	0	153	0	181	0	54	2	0	56	0	0	0	0	0	364
04:45 PM	64	47	0	0	111	35	0	173	0	208	0	49	3	0	52	0	0	0	0	0	371
Total	243	193	0	0	436	99	0	616	0	715	0	192	13	0	205	0	0	0	0	0	1356
05:00 PM	70	55	0	0	125	17	0	156	0	173	0	45	4	0	49	0	0	0	0	0	347
05:15 PM	59	53	0	0	112	23	0	156	0	179	0	51	6	0	57	0	0	0	0	0	348
05:30 PM	50	51	0	0	101	16	0	153	0	169	0	38	4	0	42	0	0	0	0	0	312
05:45 PM	36	39	0	0	75	14	0	111	0	125	0	41	1	0	42	0	0	0	0	0	242
Total	215	198	0	0	413	70	0	576	0	646	0	175	15	0	190	0	0	0	0	0	1249
Grand Total	1025	1035	0	0	2060	378	0	2262	0	2640	0	1634	88	0	1722	0	0	0	0	0	6422
Apprch %	49.8	50.2	0	0		14.3	0	85.7	0		0	94.9	5.1	0		0	0	0	0		
Total %	16	16.1	0	0	32.1	5.9	0	35.2	0	41.1	0	25.4	1.4	0	26.8	0	0	0	0	0	
Cars+	957	926	0	0	1883	360	0	2193	0	2553	0	1484	80	0	1564	0	0	0	0	0	6000
% Cars+	93.4	89.5	0	0	91.4	95.2	0	96.9	0	96.7	0	90.8	90.9	0	90.8	0	0	0	0	0	93.4
Heavy Vehicles	68	109	0	0	177	18	0	69	0	87	0	150	8	0	158	0	0	0	0	0	422
% Heavy Vehicles	6.6	10.5	0	0	8.6	4.8	0	3.1	0	3.3	0	9.2	9.1	0	9.2	0	0	0	0	0	6.6

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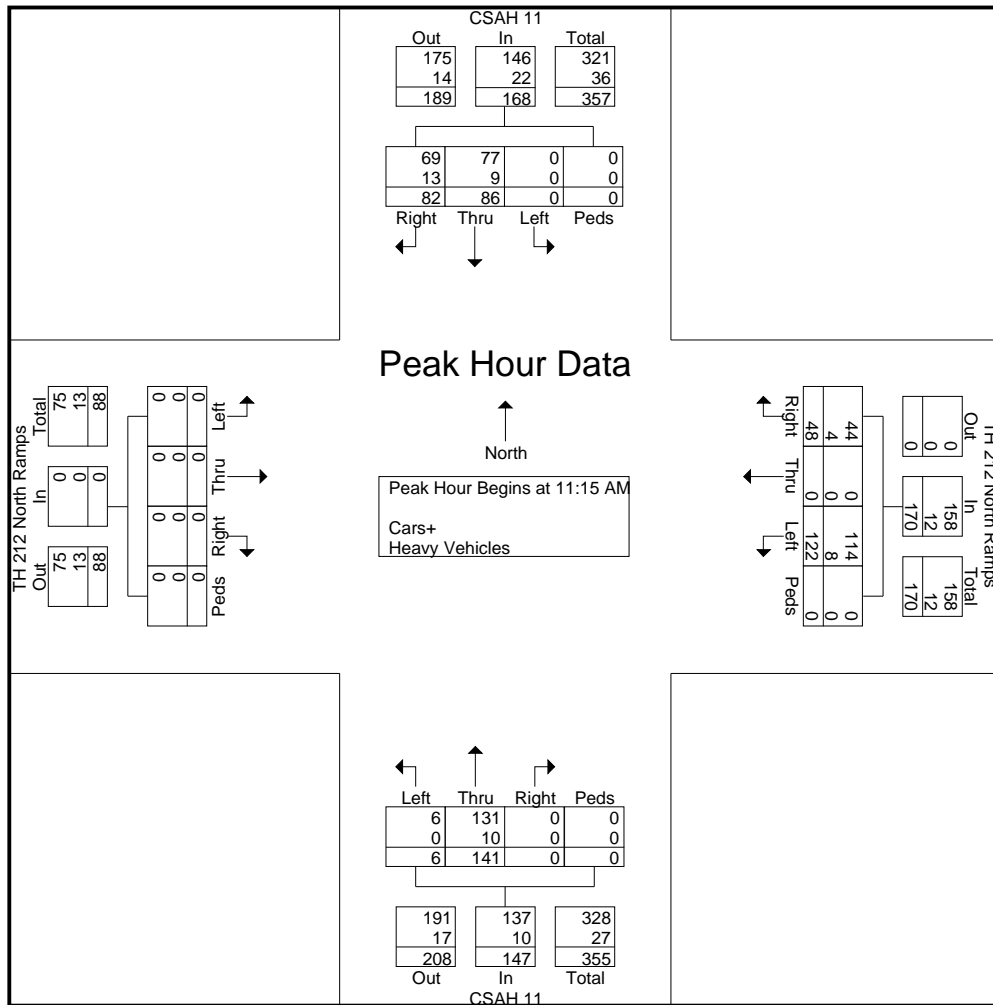
Start Time	CSAH 11 From North					TH 212 North Ramps From East					CSAH 11 From South					TH 212 North Ramps From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	15	24	0	0	39	5	0	23	0	28	0	81	3	0	84	0	0	0	0	0	151
07:15 AM	17	29	0	0	46	0	0	21	0	21	0	73	4	0	77	0	0	0	0	0	144
07:30 AM	12	36	0	0	48	10	0	25	0	35	0	88	4	0	92	0	0	0	0	0	175
07:45 AM	19	23	0	0	42	4	0	22	0	26	0	82	3	0	85	0	0	0	0	0	153
Total Volume	63	112	0	0	175	19	0	91	0	110	0	324	14	0	338	0	0	0	0	0	623
% App. Total	36	64	0	0		17.3	0	82.7	0		0	95.9	4.1	0		0	0	0	0		
PHF	.829	.778	.000	.000	.911	.475	.000	.910	.000	.786	.000	.920	.875	.000	.918	.000	.000	.000	.000	.000	.890
Cars+	57	78	0	0	135	16	0	83	0	99	0	305	13	0	318	0	0	0	0	0	552
% Cars+	90.5	69.6	0	0	77.1	84.2	0	91.2	0	90.0	0	94.1	92.9	0	94.1	0	0	0	0	0	88.6
Heavy Vehicles	6	34	0	0	40	3	0	8	0	11	0	19	1	0	20	0	0	0	0	0	71
% Heavy Vehicles	9.5	30.4	0	0	22.9	15.8	0	8.8	0	10.0	0	5.9	7.1	0	5.9	0	0	0	0	0	11.4



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Start Time	CSAH 11 From North					TH 212 North Ramps From East					CSAH 11 From South					TH 212 North Ramps From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:15 AM																					
11:15 AM	23	19	0	0	42	11	0	35	0	46	0	39	2	0	41	0	0	0	0	0	129
11:30 AM	16	27	0	0	43	14	0	24	0	38	0	33	2	0	35	0	0	0	0	0	116
11:45 AM	20	12	0	0	32	10	0	25	0	35	0	38	2	0	40	0	0	0	0	0	107
12:00 PM	23	28	0	0	51	13	0	38	0	51	0	31	0	0	31	0	0	0	0	0	133
Total Volume	82	86	0	0	168	48	0	122	0	170	0	141	6	0	147	0	0	0	0	0	485
% App. Total	48.8	51.2	0	0		28.2	0	71.8	0		0	95.9	4.1	0		0	0	0	0	0	
PHF	.891	.768	.000	.000	.824	.857	.000	.803	.000	.833	.000	.904	.750	.000	.896	.000	.000	.000	.000	.000	.912
Cars+	69	77	0	0	146	44	0	114	0	158	0	131	6	0	137	0	0	0	0	0	441
% Cars+	84.1	89.5	0	0	86.9	91.7	0	93.4	0	92.9	0	92.9	100	0	93.2	0	0	0	0	0	90.9
Heavy Vehicles	13	9	0	0	22	4	0	8	0	12	0	10	0	0	10	0	0	0	0	0	44
% Heavy Vehicles	15.9	10.5	0	0	13.1	8.3	0	6.6	0	7.1	0	7.1	0	0	6.8	0	0	0	0	0	9.1



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Start Time	CSAH 11 From North					TH 212 North Ramps From East					CSAH 11 From South					TH 212 North Ramps From West					Int. Total	
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total		
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																						
Peak Hour for Entire Intersection Begins at 04:30 PM																						
04:30 PM	82	45	0	0	127	28	0	153	0	181	0	54	2	0	56	0	0	0	0	0	0	364
04:45 PM	64	47	0	0	111	35	0	173	0	208	0	49	3	0	52	0	0	0	0	0	0	371
05:00 PM	70	55	0	0	125	17	0	156	0	173	0	45	4	0	49	0	0	0	0	0	0	347
05:15 PM	59	53	0	0	112	23	0	156	0	179	0	51	6	0	57	0	0	0	0	0	0	348
Total Volume	275	200	0	0	475	103	0	638	0	741	0	199	15	0	214	0	0	0	0	0	0	1430
% App. Total	57.9	42.1	0	0		13.9	0	86.1	0		0	93	7	0		0	0	0	0	0		
PHF	.838	.909	.000	.000	.935	.736	.000	.922	.000	.891	.000	.921	.625	.000	.939	.000	.000	.000	.000	.000	.000	.964
Cars+	270	196	0	0	466	103	0	631	0	734	0	186	14	0	200	0	0	0	0	0	0	1400
% Cars+	98.2	98.0	0	0	98.1	100	0	98.9	0	99.1	0	93.5	93.3	0	93.5	0	0	0	0	0	0	97.9
Heavy Vehicles	5	4	0	0	9	0	0	7	0	7	0	13	1	0	14	0	0	0	0	0	0	30
% Heavy Vehicles	1.8	2.0	0	0	1.9	0	0	1.1	0	0.9	0	6.5	6.7	0	6.5	0	0	0	0	0	0	2.1

