

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

US 169 & 117th Ave
 City: Champlin
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : US 169 & 117th Ave_2021
 Site Code : 1735940
 Start Date : 11/3/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					117th Ave Westbound					US 169 Northbound					117th Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
06:00 AM	3	369	2	0	374	7	3	1	0	11	3	112	1	0	116	0	3	1	0	4	505
06:15 AM	8	466	1	0	475	12	2	2	0	16	2	164	10	0	176	2	2	3	0	7	674
06:30 AM	3	519	9	0	531	14	4	1	0	19	3	240	3	0	246	2	6	3	0	11	807
06:45 AM	10	479	3	0	492	24	4	2	0	30	4	185	18	0	207	1	5	3	0	9	738
Total	24	1833	15	0	1872	57	13	6	0	76	12	701	32	0	745	5	16	10	0	31	2724
07:00 AM	2	569	2	0	573	18	4	6	0	28	2	188	15	0	205	0	2	3	0	5	811
07:15 AM	13	583	5	0	601	17	7	6	0	30	1	230	11	0	242	3	7	6	0	16	889
07:30 AM	6	563	7	0	576	26	7	2	0	35	5	244	13	0	262	3	4	10	0	17	890
07:45 AM	8	546	5	0	559	14	10	4	0	28	5	267	10	0	282	3	8	3	0	14	883
Total	29	2261	19	0	2309	75	28	18	0	121	13	929	49	0	991	9	21	22	0	52	3473
08:00 AM	6	494	5	0	505	18	8	1	0	27	5	220	17	0	242	0	4	5	0	9	783
08:15 AM	8	422	12	0	442	14	8	7	0	29	4	208	13	0	225	3	9	8	0	20	716
08:30 AM	10	405	5	0	420	17	7	4	0	28	8	220	16	0	244	4	8	4	0	16	708
08:45 AM	6	381	4	0	391	26	10	3	0	39	5	225	10	0	240	5	13	9	0	27	697
Total	30	1702	26	0	1758	75	33	15	0	123	22	873	56	0	951	12	34	26	0	72	2904
09:00 AM	7	344	10	0	361	16	9	5	0	30	7	219	7	0	233	3	9	6	0	18	642
09:15 AM	3	360	10	0	373	21	19	1	0	41	14	219	9	0	242	2	4	10	0	16	672
09:30 AM	7	329	10	0	346	10	10	4	0	24	9	256	10	0	275	7	6	7	0	20	665
09:45 AM	7	318	8	0	333	13	9	6	0	28	7	243	12	0	262	6	12	9	0	27	650
Total	24	1351	38	0	1413	60	47	16	0	123	37	937	38	0	1012	18	31	32	0	81	2629
10:00 AM	13	247	5	0	265	13	7	8	0	28	8	205	9	1	223	5	19	9	0	33	549
10:15 AM	4	311	8	0	323	15	11	6	0	32	8	236	11	0	255	5	7	8	0	20	630
10:30 AM	4	270	2	0	276	18	14	5	0	37	8	211	13	0	232	6	11	12	0	29	574
10:45 AM	7	278	8	0	293	18	9	9	0	36	6	258	15	0	279	4	6	10	0	20	628
Total	28	1106	23	0	1157	64	41	28	0	133	30	910	48	1	989	20	43	39	0	102	2381
11:00 AM	9	267	6	1	283	13	21	5	0	39	7	223	20	0	250	8	12	6	0	26	598
11:15 AM	4	305	16	0	325	17	12	4	0	33	11	232	14	0	257	9	16	13	0	38	653
11:30 AM	6	283	14	0	303	14	16	12	0	42	10	274	20	0	304	6	6	5	0	17	666
11:45 AM	10	285	8	0	303	11	5	7	0	23	14	280	18	0	312	11	14	7	0	32	670
Total	29	1140	44	1	1214	55	54	28	0	137	42	1009	72	0	1123	34	48	31	0	113	2587
12:00 PM	9	268	13	0	290	22	20	5	0	47	9	238	14	0	261	5	20	17	0	42	640
12:15 PM	13	277	9	0	299	16	10	6	0	32	11	268	11	0	290	9	11	4	0	24	645
12:30 PM	6	285	8	0	299	14	17	8	0	39	11	266	19	0	296	5	18	16	0	39	673
12:45 PM	10	285	9	0	304	17	14	5	0	36	14	298	18	0	330	9	10	12	0	31	701
Total	38	1115	39	0	1192	69	61	24	0	154	45	1070	62	0	1177	28	59	49	0	136	2659
01:00 PM	6	264	8	0	278	15	7	5	0	27	11	274	12	0	297	10	16	12	0	38	640
01:15 PM	3	315	5	0	323	15	17	5	0	37	10	298	20	0	328	9	10	7	0	26	714
01:30 PM	7	272	8	0	287	14	16	6	0	36	17	304	16	0	337	12	13	24	0	49	709
01:45 PM	7	276	8	0	291	7	14	4	0	25	6	362	28	0	396	6	14	10	0	30	742
Total	23	1127	29	0	1179	51	54	20	0	125	44	1238	76	0	1358	37	53	53	0	143	2805
02:00 PM	12	262	10	0	284	14	13	9	0	36	14	340	21	0	375	7	13	12	0	32	727
02:15 PM	10	310	17	0	337	18	13	6	0	37	12	421	25	0	458	6	16	12	0	34	866
02:30 PM	9	284	6	0	299	22	23	2	0	47	15	418	20	0	453	12	15	17	0	44	843
02:45 PM	13	289	10	0	312	19	23	9	0	51	9	426	19	0	454	12	15	13	0	40	857
Total	44	1145	43	0	1232	73	72	26	0	171	50	1605	85	0	1740	37	59	54	0	150	3293
03:00 PM	11	300	7	0	318	21	16	13	0	50	11	446	10	0	467	7	11	16	0	34	869

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File Name : US 169 & 117th Ave_2021
 Site Code : 1735940
 Start Date : 11/3/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					117th Ave Westbound					US 169 Northbound					117th Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
03:15 PM	6	322	9	0	337	16	16	10	0	42	17	453	14	0	484	14	15	10	0	39	902
03:30 PM	7	330	14	0	351	13	18	12	0	43	12	471	25	0	508	7	14	10	0	31	933
03:45 PM	14	327	9	0	350	14	21	8	0	43	7	470	13	0	490	7	17	12	0	36	919
Total	38	1279	39	0	1356	64	71	43	0	178	47	1840	62	0	1949	35	57	48	0	140	3623
04:00 PM	12	260	12	0	284	13	28	14	0	55	14	464	30	0	508	15	16	10	0	41	888
04:15 PM	13	315	12	0	340	18	23	8	0	49	19	488	31	0	538	16	26	12	0	54	981
04:30 PM	6	336	14	0	356	29	43	9	0	81	11	429	33	0	473	7	19	13	0	39	949
04:45 PM	8	362	11	0	381	22	27	6	0	55	21	451	35	1	508	10	29	13	0	52	996
Total	39	1273	49	0	1361	82	121	37	0	240	65	1832	129	1	2027	48	90	48	0	186	3814
05:00 PM	16	347	13	0	376	26	20	11	0	57	21	417	28	0	466	16	27	21	0	64	963
05:15 PM	13	326	12	0	351	25	18	5	0	48	13	408	28	0	449	12	18	14	0	44	892
05:30 PM	18	304	7	0	329	15	17	14	0	46	11	414	27	0	452	13	18	7	0	38	865
05:45 PM	16	319	11	0	346	25	32	12	0	69	24	389	29	0	442	11	25	5	0	41	898
Total	63	1296	43	0	1402	91	87	42	0	220	69	1628	112	0	1809	52	88	47	0	187	3618
06:00 PM	7	333	12	0	352	16	21	12	0	49	12	394	26	0	432	6	18	14	0	38	871
06:15 PM	11	303	15	0	329	24	18	12	0	54	14	350	31	0	395	19	22	13	0	54	832
06:30 PM	11	250	13	0	274	21	7	6	0	34	17	411	19	3	450	14	17	11	0	42	800
06:45 PM	13	235	10	0	258	8	19	5	0	32	10	303	19	0	332	11	12	9	0	32	654
Total	42	1121	50	0	1213	69	65	35	0	169	53	1458	95	3	1609	50	69	47	0	166	3157
Grand Total	451	17749	457	1	18658	885	747	338	0	1970	529	16030	916	5	17480	385	668	506	0	1559	39667
Apprch %	2.4	95.1	2.4	0		44.9	37.9	17.2	0		3	91.7	5.2	0		24.7	42.8	32.5	0		
Total %	1.1	44.7	1.2	0	47	2.2	1.9	0.9	0	5	1.3	40.4	2.3	0	44.1	1	1.7	1.3	0	3.9	
Cars	437	17072	450	1	17960	864	715	325	0	1904	511	15405	899	5	16820	378	646	472	0	1496	38180
% Cars	96.9	96.2	98.5	100	96.3	97.6	95.7	96.2	0	96.6	96.6	96.1	98.1	100	96.2	98.2	96.7	93.3	0	96	96.3
Trucks	14	677	7	0	698	21	32	13	0	66	18	625	17	0	660	7	22	34	0	63	1487
% Trucks	3.1	3.8	1.5	0	3.7	2.4	4.3	3.8	0	3.4	3.4	3.9	1.9	0	3.8	1.8	3.3	6.7	0	4	3.7

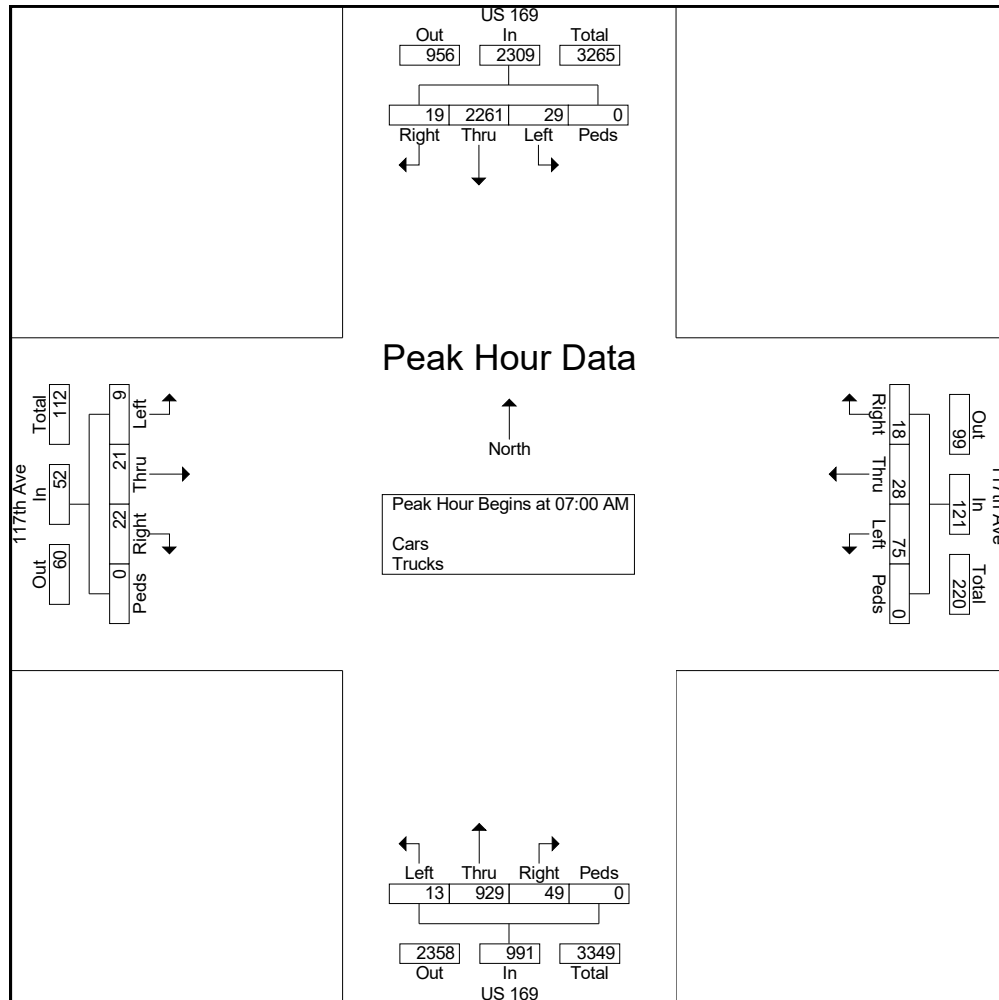
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 Page No : 3

Start Time	US 169 Southbound					117th Ave Westbound					US 169 Northbound					117th Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	2	569	2	0	573	18	4	6	0	28	2	188	15	0	205	0	2	3	0	5	811
07:15 AM	13	583	5	0	601	17	7	6	0	30	1	230	11	0	242	3	7	6	0	16	889
07:30 AM	6	563	7	0	576	26	7	2	0	35	5	244	13	0	262	3	4	10	0	17	890
07:45 AM	8	546	5	0	559	14	10	4	0	28	5	267	10	0	282	3	8	3	0	14	883
Total Volume	29	2261	19	0	2309	75	28	18	0	121	13	929	49	0	991	9	21	22	0	52	3473
% App. Total	1.3	97.9	0.8	0		62	23.1	14.9	0		1.3	93.7	4.9	0		17.3	40.4	42.3	0		
PHF	.558	.970	.679	.000	.960	.721	.700	.750	.000	.864	.650	.870	.817	.000	.879	.750	.656	.550	.000	.765	.976



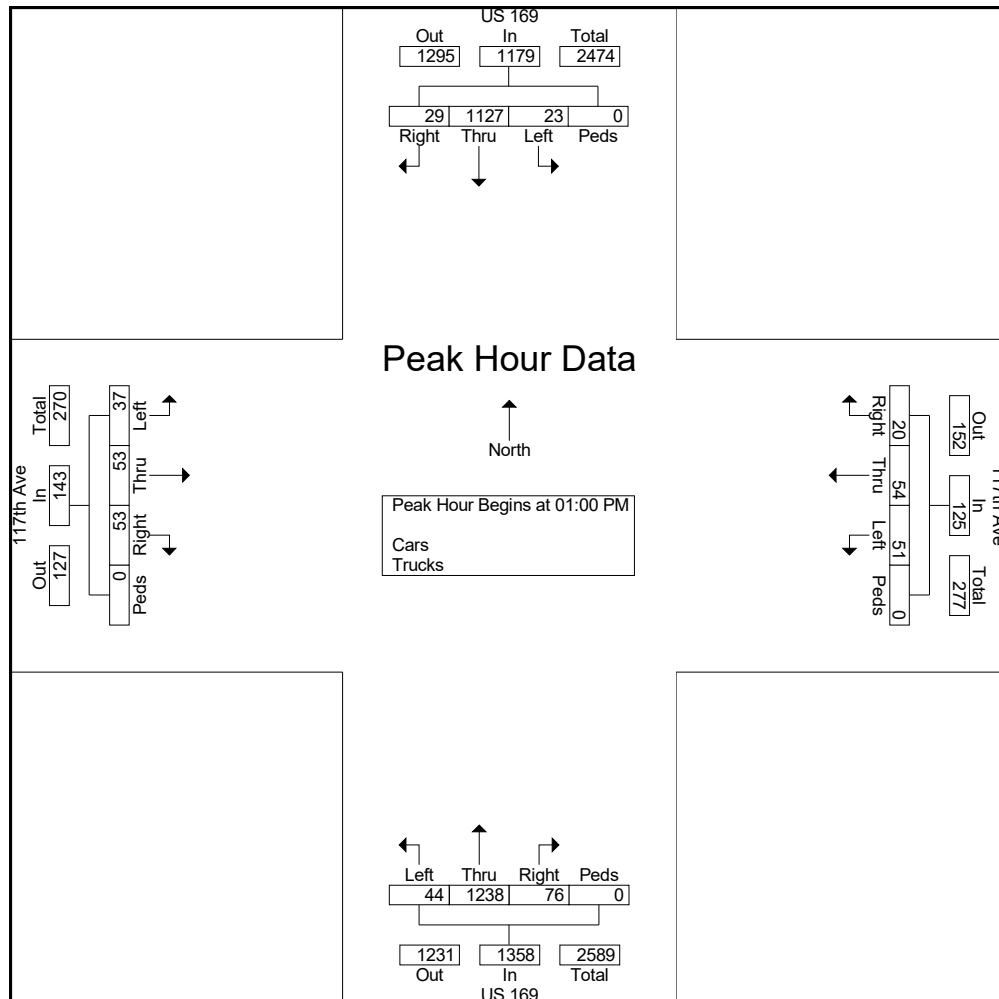
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 Page No : 4

Start Time	US 169 Southbound					117th Ave Westbound					US 169 Northbound					117th Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	6	264	8	0	278	15	7	5	0	27	11	274	12	0	297	10	16	12	0	38	640
01:15 PM	3	315	5	0	323	15	17	5	0	37	10	298	20	0	328	9	10	7	0	26	714
01:30 PM	7	272	8	0	287	14	16	6	0	36	17	304	16	0	337	12	13	24	0	49	709
01:45 PM	7	276	8	0	291	7	14	4	0	25	6	362	28	0	396	6	14	10	0	30	742
Total Volume	23	1127	29	0	1179	51	54	20	0	125	44	1238	76	0	1358	37	53	53	0	143	2805
% App. Total	2	95.6	2.5	0		40.8	43.2	16	0		3.2	91.2	5.6	0		25.9	37.1	37.1	0		
PHF	.821	.894	.906	.000	.913	.850	.794	.833	.000	.845	.647	.855	.679	.000	.857	.771	.828	.552	.000	.730	.945



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 Page No : 5

Start Time	US 169 Southbound					117th Ave Westbound					US 169 Northbound					117th Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	13	315	12	0	340	18	23	8	0	49	19	488	31	0	538	16	26	12	0	54	981
04:30 PM	6	336	14	0	356	29	43	9	0	81	11	429	33	0	473	7	19	13	0	39	949
04:45 PM	8	362	11	0	381	22	27	6	0	55	21	451	35	1	508	10	29	13	0	52	996
05:00 PM	16	347	13	0	376	26	20	11	0	57	21	417	28	0	466	16	27	21	0	64	963
Total Volume	43	1360	50	0	1453	95	113	34	0	242	72	1785	127	1	1985	49	101	59	0	209	3889
% App. Total	3	93.6	3.4	0		39.3	46.7	14	0		3.6	89.9	6.4	0.1		23.4	48.3	28.2	0		
PHF	.672	.939	.893	.000	.953	.819	.657	.773	.000	.747	.857	.914	.907	.250	.922	.766	.871	.702	.000	.816	.976

