APPENDIX A

TRAFFIC DATA COLLECTION WORKSHEETS

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
S Direction: MACARTHUR BOULEVARD
E-W Direction: MAIN STREET

File Name : H1103010
Site Code : 00003871
Start Date : 3/16/2011
Page No : 1

Groups Printed- Turning Movements

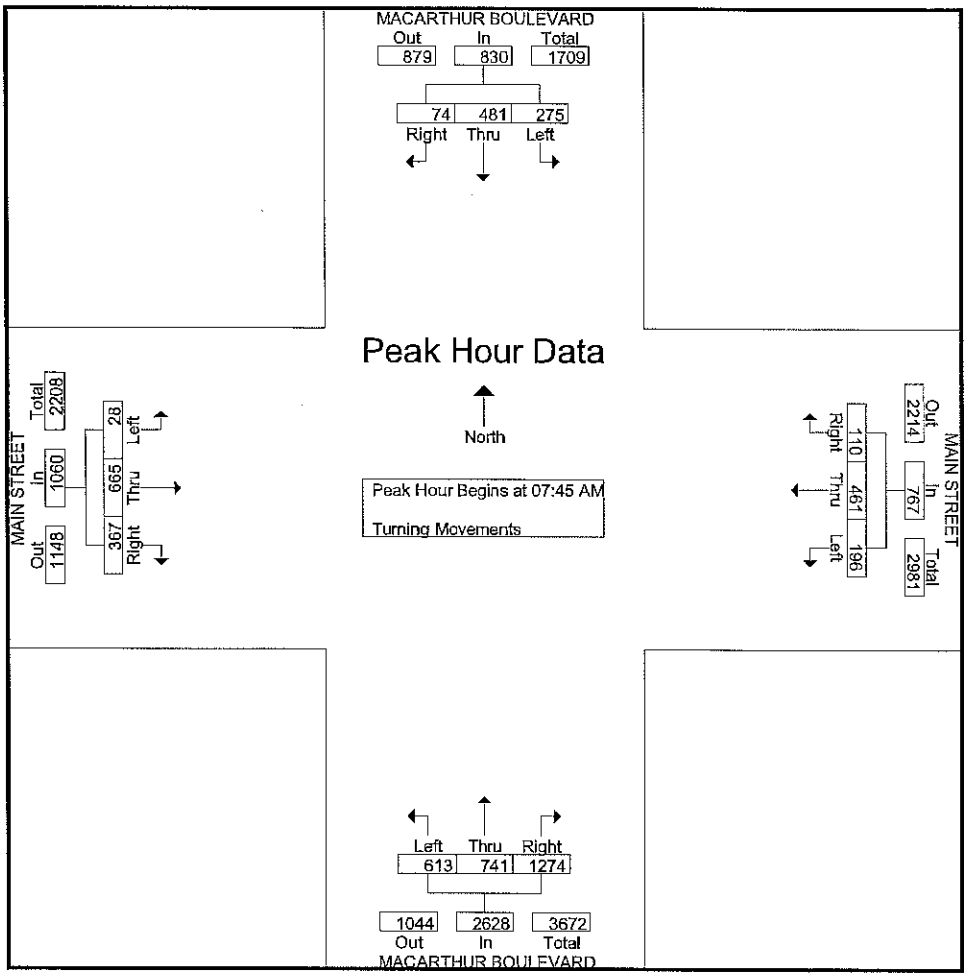
	MACARTHUR BOULEVARD Southbound			MAIN STREET Westbound			MACARTHUR BOULEVARD Northbound			MAIN STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	11	79	51	19	60	29	253	124	140	55	89	4	914
07:15 AM	11	105	56	21	68	24	267	126	146	52	93	9	978
07:30 AM	15	105	62	16	69	43	287	146	156	82	110	6	1097
07:45 AM	14	109	72	18	105	58	337	171	169	104	126	7	1290
Total	51	398	241	74	302	154	1144	567	611	293	418	26	4279
08:00 AM	22	128	51	21	126	40	311	185	165	98	182	5	1334
08:15 AM	12	125	71	32	104	42	303	178	152	77	171	11	1278
08:30 AM	26	119	81	39	126	56	323	207	127	88	186	5	1383
08:45 AM	14	107	67	35	131	47	303	207	121	85	137	10	1264
Total	74	479	270	127	487	185	1240	777	565	348	676	31	5259
*** BREAK ***													
04:00 PM	9	161	41	98	150	137	79	148	100	118	88	13	1142
04:15 PM	14	135	46	80	154	129	94	193	102	128	116	19	1210
04:30 PM	8	145	42	73	147	103	83	198	113	146	84	11	1153
04:45 PM	7	134	59	74	147	124	103	184	118	126	137	17	1230
Total	38	575	188	325	598	493	359	723	433	518	425	60	4735
05:00 PM	8	174	52	104	146	155	98	204	110	134	158	12	1355
05:15 PM	11	147	59	115	226	174	111	217	141	163	243	10	1617
05:30 PM	11	182	65	90	168	128	112	225	160	129	177	11	1458
05:45 PM	10	168	82	71	198	149	100	168	117	128	226	12	1429
Total	40	671	258	380	738	606	421	814	528	554	804	45	5859
Grand Total	203	2123	957	906	2125	1438	3164	2881	2137	1713	2323	162	20132
Apprch %	6.2	64.7	29.2	20.3	47.5	32.2	38.7	35.2	26.1	40.8	55.3	3.9	
Total %	1	10.5	4.8	4.5	10.6	7.1	15.7	14.3	10.6	8.5	11.5	0.8	

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
S Direction: MACARTHUR BOULEVARD
E-W Direction: MAIN STREET

File Name : H1103010
Site Code : 00003871
Start Date : 3/16/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				MAIN STREET Westbound				MACARTHUR BOULEVARD Northbound				MAIN STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	14	109	72	195	18	105	**58**	181	**337**	171	**169**	**677**	**104**	126	7	237	1290
08:00 AM	22	**128**	51	201	21	**126**	40	187	311	185	165	661	98	182	5	**285**	1334
08:15 AM	12	125	71	208	32	104	42	178	303	178	152	633	77	171	11	259	1278
08:30 AM	**26**	**119**	**81**	**226**	**39**	126	56	**221**	323	**207**	127	657	88	**186**	5	279	**1383**
Total Volume	74	481	275	830	110	461	196	767	1274	741	613	2628	367	665	28	1060	5285
% App. Total	8.9	58	33.1		14.3	60.1	25.6		48.5	28.2	23.3		34.6	62.7	2.6		
PHF	.712	.939	.849	.918	.705	.915	.845	.868	.945	.895	.907	.970	.882	.894	.636	.930	.955



Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
S Direction: MACARTHUR BOULEVARD
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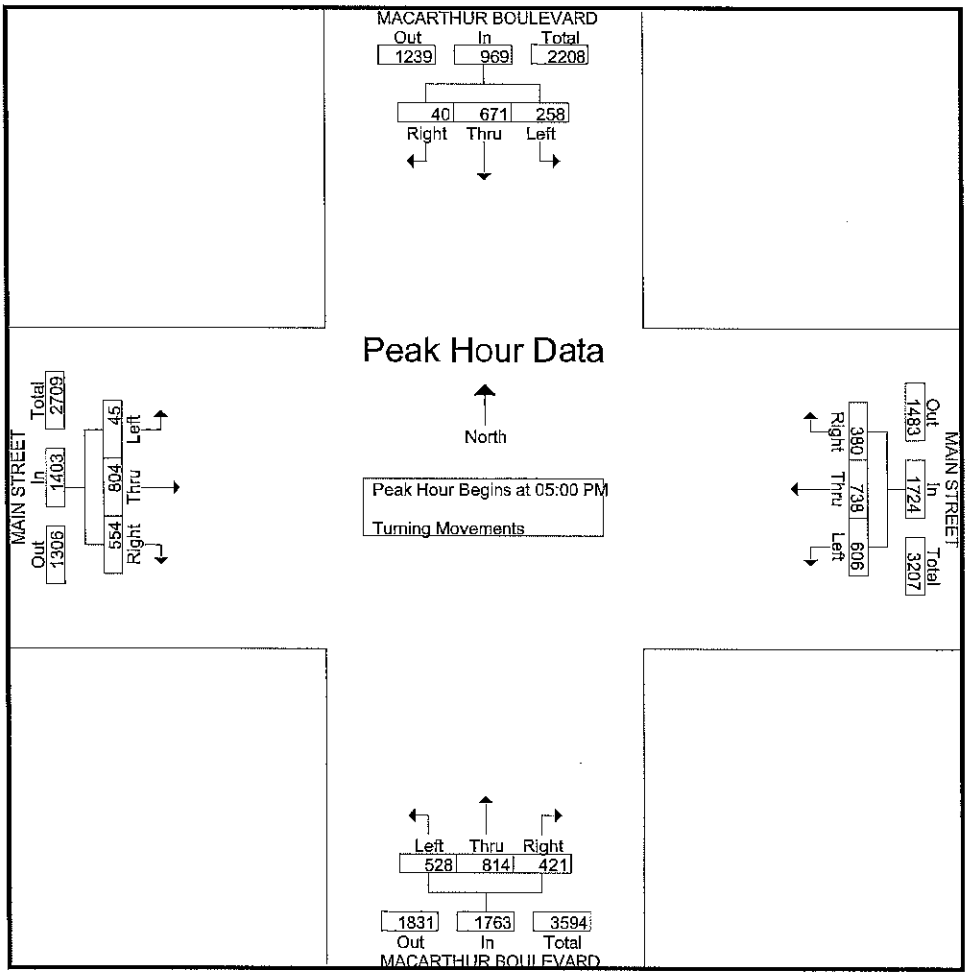
File Name : H1103010
Site Code : 00003871
Start Date : 3/16/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				MAIN STREET Westbound				MACARTHUR BOULEVARD Northbound				MAIN STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	8	174	52	234	104	146	155	405	98	204	110	412	134	158	**12**	304	1355
05:15 PM	**11**	147	59	217	**115**	**226**	**174**	**515**	111	217	141	469	**163**	**243**	10	**416**	**1617**
05:30 PM	11	**182**	65	258	90	168	128	386	**112**	**225**	**160**	**497**	129	177	11	317	1458
05:45 PM	10	168	**82**	**260**	71	198	149	418	100	168	117	385	128	226	12	366	1429
Total Volume	40	671	258	969	380	738	606	1724	421	814	528	1763	554	804	45	1403	5859
% App. Total	4.1	69.2	26.6		22	42.8	35.2		23.9	46.2	29.9		39.5	57.3	3.2		
PHF	.909	.922	.787	.932	.826	.816	.871	.837	.940	.904	.825	.887	.850	.827	.938	.843	.906



TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N Direction: MACARTHUR BOULEVARD
W Direction: I-405 NB RAMPS

File Name : h1105001
Site Code : 00005700
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

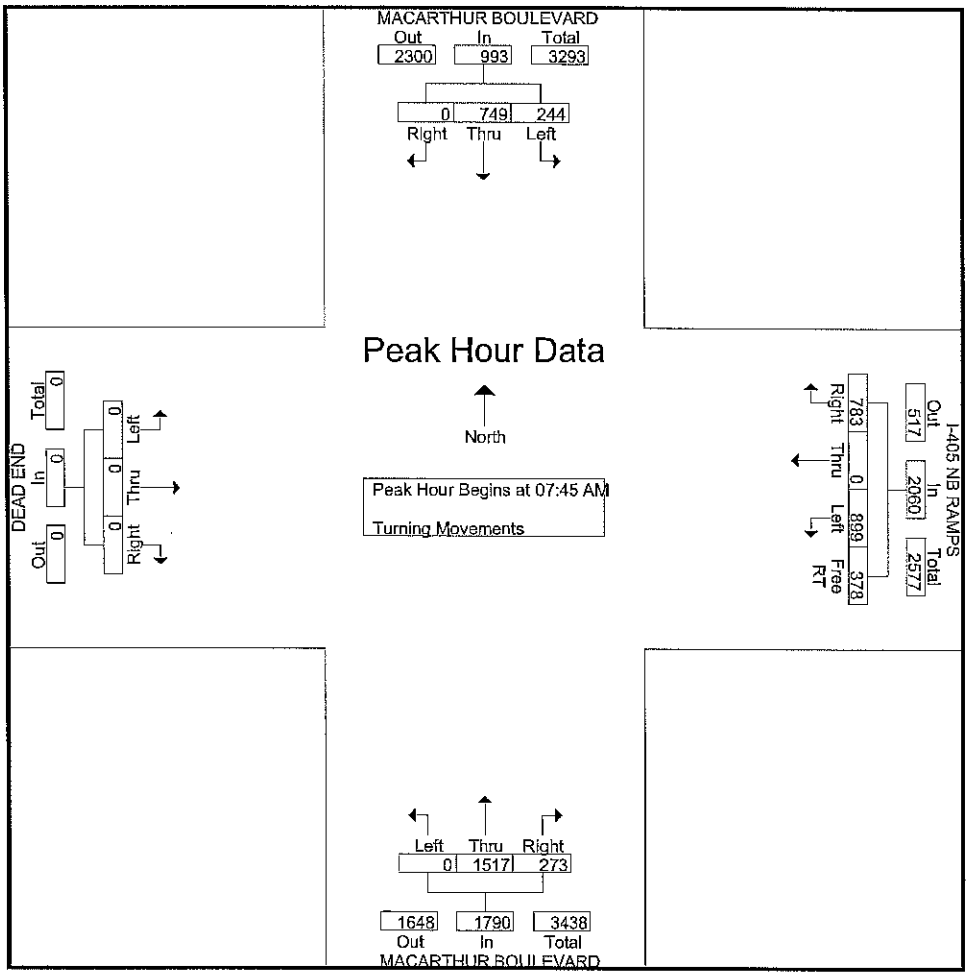
	MACARTHUR BOULEVARD Southbound			I-405 NB RAMPS Westbound				MACARTHUR BOULEVARD Northbound			DEAD END Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Free RT	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	0	147	51	151	0	197	62	49	311	0	0	0	0	968
07:15 AM	0	161	56	163	0	220	66	57	336	0	0	0	0	1059
07:30 AM	0	178	60	177	0	215	93	63	369	0	0	0	0	1155
07:45 AM	0	179	57	183	0	221	91	65	397	0	0	0	0	1193
Total	0	665	224	674	0	853	312	234	1413	0	0	0	0	4375
08:00 AM	0	181	59	189	0	232	93	73	372	0	0	0	0	1199
08:15 AM	0	186	65	214	0	232	103	69	381	0	0	0	0	1250
08:30 AM	0	203	63	197	0	214	91	66	367	0	0	0	0	1201
08:45 AM	0	171	57	168	0	211	73	60	357	0	0	0	0	1097
Total	0	741	244	768	0	889	360	268	1477	0	0	0	0	4747
*** BREAK ***														
04:30 PM	0	222	141	67	0	137	52	231	318	0	0	0	0	1168
04:45 PM	0	204	139	77	0	119	48	244	321	0	0	0	0	1152
Total	0	426	280	144	0	256	100	475	639	0	0	0	0	2320
05:00 PM	0	301	153	81	0	141	56	229	293	0	0	0	0	1254
05:15 PM	0	308	146	83	0	160	46	239	296	0	0	0	0	1278
05:30 PM	0	327	156	97	0	161	63	257	306	0	0	0	0	1367
05:45 PM	0	341	139	103	0	181	52	231	294	0	0	0	0	1341
Total	0	1277	594	364	0	643	217	956	1189	0	0	0	0	5240
06:00 PM	0	298	152	92	0	157	65	219	358	0	0	0	0	1341
06:15 PM	0	279	137	86	0	131	50	226	263	0	0	0	0	1172
Grand Total	0	3686	1631	2128	0	2929	1104	2378	5339	0	0	0	0	19195
Apprch %	0	69.3	30.7	34.5	0	47.5	17.9	30.8	69.2	0	0	0	0	
Total %	0	19.2	8.5	11.1	0	15.3	5.8	12.4	27.8	0	0	0	0	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
S Direction: MACARTHUR BOULEVARD
W Direction: I-405 NB RAMPS

File Name : h1105001
Site Code : 00005700
Start Date : 5/3/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				I-405 NB RAMPS Westbound					MACARTHUR BOULEVARD Northbound				DEAD END Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	Free RT	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 07:45 AM																		
07:45 AM	0	179	57	236	183	0	221	91	495	65	**397**	0	**462**	0	0	0	0	1193
08:00 AM	0	181	59	240	189	0	**232**	93	514	**73**	372	0	445	0	0	0	0	1199
08:15 AM	0	186	**65**	251	**214**	0	232	**103**	**549**	69	381	0	450	0	0	0	0	**1250**
08:30 AM	0	**203**	63	**266**	197	0	214	91	502	66	367	0	433	0	0	0	0	1201
Total Volume	0	749	244	993	783	0	899	378	2060	273	1517	0	1790	0	0	0	0	4843
% App. Total	0	75.4	24.6		38	0	43.6	18.3		15.3	84.7	0		0	0	0		
PHF	.000	.922	.938	.933	.915	.000	.969	.917	.938	.935	.955	.000	.969	.000	.000	.000	.000	.969



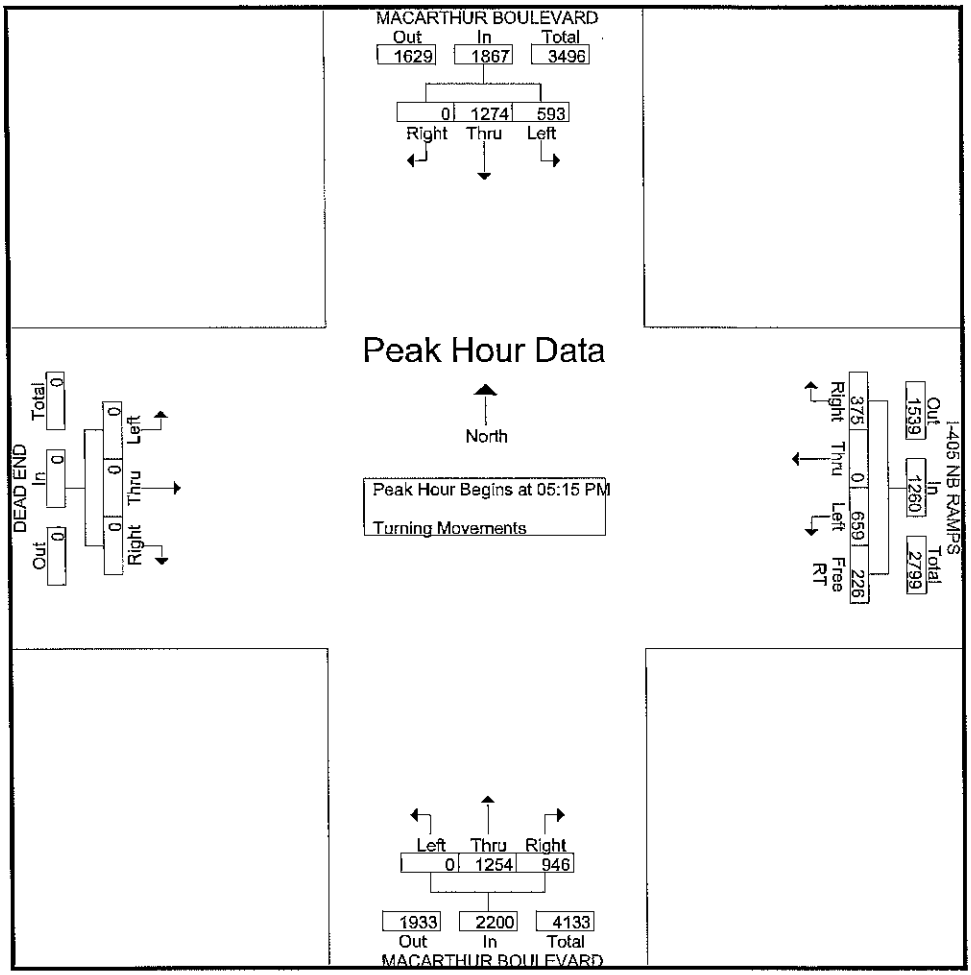
TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

2

City: IRVINE
N Direction: MACARTHUR BOULEVARD
W Direction: I-405 NB RAMPS

File Name : h1105001
Site Code : 00005700
Start Date : 5/3/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				I-405 NB RAMPS Westbound					MACARTHUR BOULEVARD Northbound				DEAD END Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	Free RT	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 05:15 PM																		
05:15 PM	0	308	146	454	83	0	160	46	289	239	296	0	535	0	0	0	0	1278
05:30 PM	0	327	**156**	**483**	97	0	161	63	321	**257**	306	0	563	0	0	0	0	**1367**
05:45 PM	0	**341**	139	480	**103**	0	**181**	52	**336**	231	294	0	525	0	0	0	0	1341
06:00 PM	0	298	152	450	92	0	157	**65**	314	219	**358**	0	**577**	0	0	0	0	1341
Total Volume	0	1274	593	1867	375	0	659	226	1260	946	1254	0	2200	0	0	0	0	5327
% App. Total	0	68.2	31.8		29.8	0	52.3	17.9		43	57	0		0	0	0		
PHF	.000	.934	.950	.966	.910	.000	.910	.869	.938	.920	.876	.000	.953	.000	.000	.000	.000	.974



TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
S Direction: MACARTHUR BOULEVARD
W Direction: I-405 SB RAMPS

File Name : H1105002
Site Code : 00005061
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

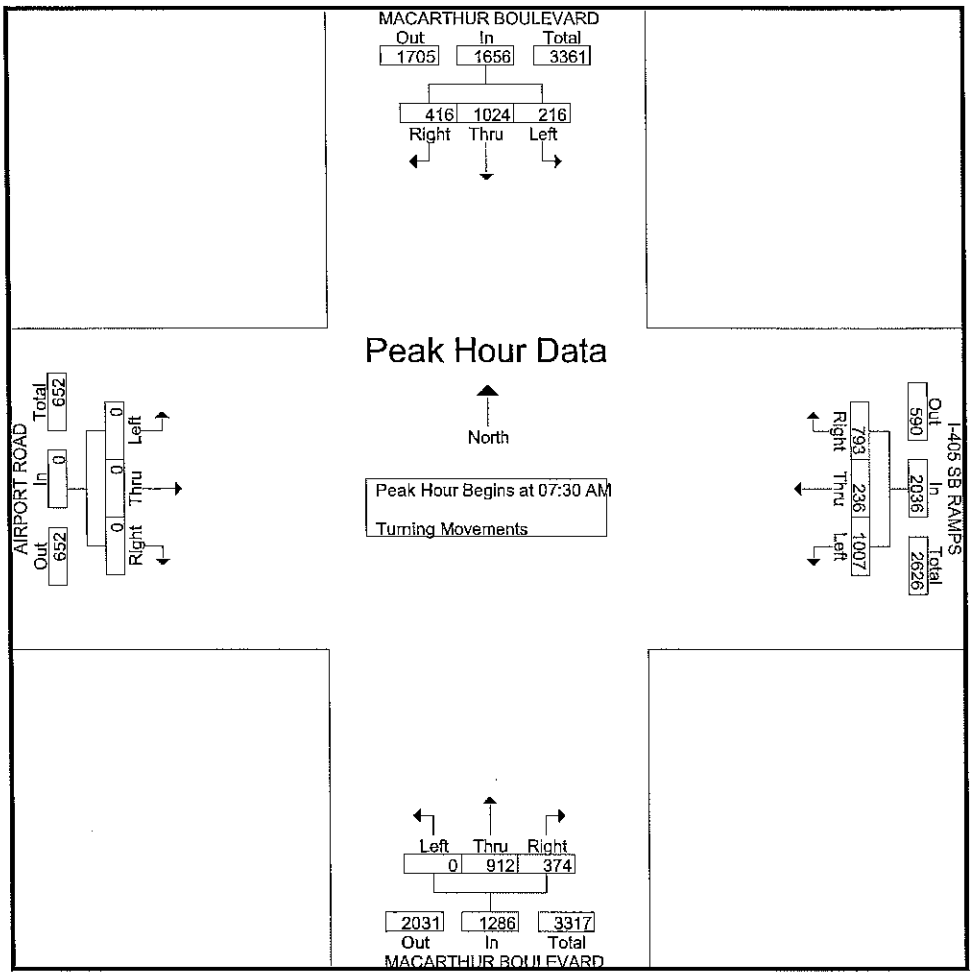
	MACARTHUR BOULEVARD Southbound			I-405 SB RAMPS Westbound			MACARTHUR BOULEVARD Northbound			AIRPORT ROAD Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	83	213	31	183	60	214	57	165	0	0	0	0	1006
07:15 AM	103	244	41	203	52	229	72	181	0	0	0	0	1125
07:30 AM	113	243	52	218	64	237	81	210	0	0	0	0	1218
07:45 AM	94	257	56	211	53	247	91	214	0	0	0	0	1223
Total	393	957	180	815	229	927	301	770	0	0	0	0	4572
08:00 AM	91	260	57	177	56	256	99	239	0	0	0	0	1235
08:15 AM	118	264	51	187	63	267	103	249	0	0	0	0	1302
08:30 AM	91	244	47	156	56	237	93	248	0	0	0	0	1172
08:45 AM	86	237	58	151	49	230	83	234	0	0	0	0	1128
Total	386	1005	213	671	224	990	378	970	0	0	0	0	4837
*** BREAK ***													
04:30 PM	87	117	131	151	44	162	148	430	0	0	0	0	1270
04:45 PM	73	114	152	144	41	137	156	461	0	0	0	0	1278
Total	160	231	283	295	85	299	304	891	0	0	0	0	2548
05:00 PM	89	216	139	157	39	168	172	372	0	0	0	0	1352
05:15 PM	92	257	160	168	49	143	164	392	0	0	0	0	1425
05:30 PM	83	267	156	138	39	162	171	402	0	0	0	0	1418
05:45 PM	76	244	137	150	48	166	153	417	0	0	0	0	1391
Total	340	984	592	613	175	639	660	1583	0	0	0	0	5586
06:00 PM	71	224	161	144	44	150	167	368	0	0	0	0	1329
06:15 PM	66	203	136	131	41	137	147	341	0	0	0	0	1202
Grand Total	1416	3604	1565	2669	798	3142	1957	4923	0	0	0	0	20074
Apprch %	21.5	54.7	23.8	40.4	12.1	47.5	28.4	71.6	0	0	0	0	
Total %	7.1	18	7.8	13.3	4	15.7	9.7	24.5	0	0	0	0	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
Direction: MACARTHUR BOULEVARD
W Direction: I-405 SB RAMPS

File Name : H1105002
Site Code : 00005061
Start Date : 5/3/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				I-405 SB RAMPS Westbound				MACARTHUR BOULEVARD Northbound				AIRPORT ROAD Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	113	243	52	408	**218**	**64**	237	**519**	81	210	0	291	0	0	0	0	1218
07:45 AM	94	257	56	407	211	53	247	511	91	214	0	305	0	0	0	0	1223
08:00 AM	91	260	**57**	408	177	56	256	489	99	239	0	338	0	0	0	0	1235
08:15 AM	**118**	**264**	51	**433**	187	63	**267**	517	**103**	**249**	0	**352**	0	0	0	0	**1302**
Total Volume	416	1024	216	1656	793	236	1007	2036	374	912	0	1286	0	0	0	0	4978
% App. Total	25.1	61.8	13		38.9	11.6	49.5		29.1	70.9	0		0	0	0		
PHF	.881	.970	.947	.956	.909	.922	.943	.981	.908	.916	.000	.913	.000	.000	.000	.000	.956

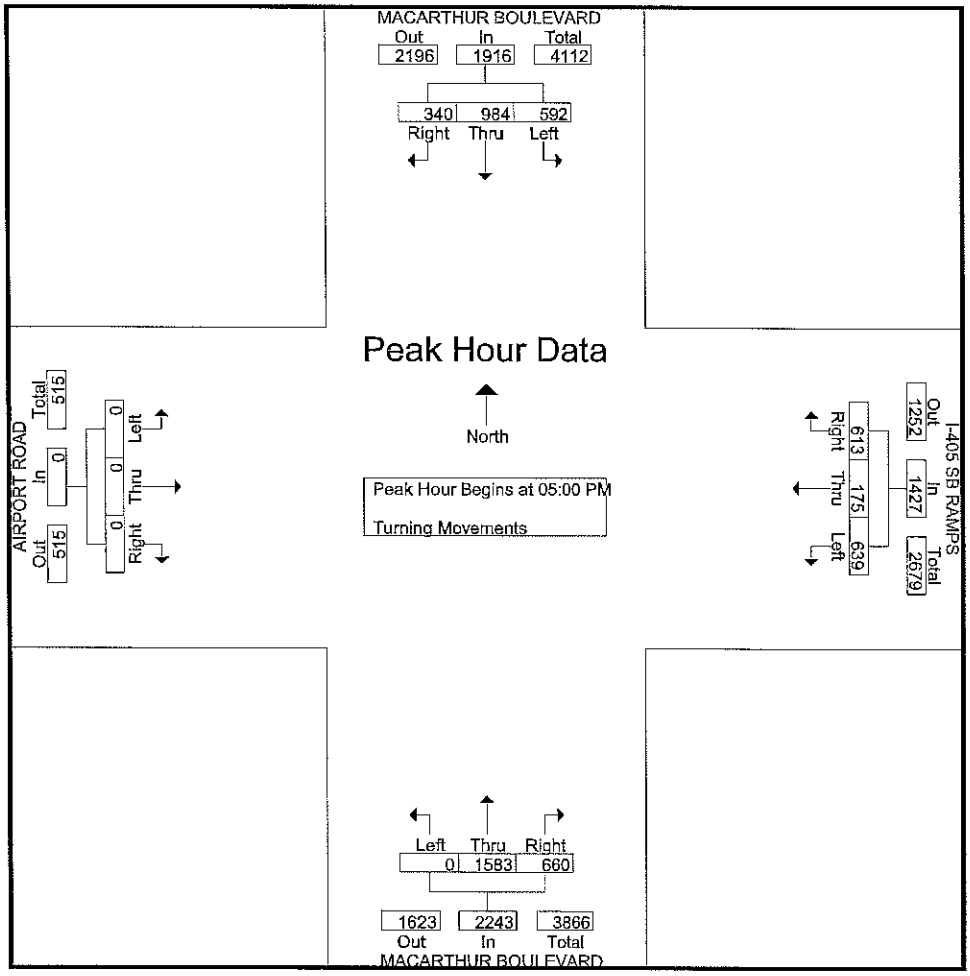


TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
E Direction: MACARTHUR BOULEVARD
N Direction: I-405 SB RAMPS

File Name : H1105002
Site Code : 00005061
Start Date : 5/3/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				I-405 SB RAMPS Westbound				MACARTHUR BOULEVARD Northbound				AIRPORT ROAD Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	89	216	139	444	157	39	**168**	**364**	**172**	372	0	544	0	0	0	0	1352
05:15 PM	**92**	257	**160**	**509**	**168**	**49**	143	360	164	392	0	556	0	0	0	0	**1425**
05:30 PM	83	**267**	156	506	138	39	162	339	171	402	0	**573**	0	0	0	0	1418
05:45 PM	76	244	137	457	150	48	166	364	153	**417**	0	570	0	0	0	0	1391
Total Volume	340	984	592	1916	613	175	639	1427	660	1583	0	2243	0	0	0	0	5586
% App. Total	17.7	51.4	30.9		43	12.3	44.8		29.4	70.6	0		0	0	0		
PHF	.924	.921	.925	.941	.912	.893	.951	.980	.959	.949	.000	.979	.000	.000	.000	.000	.980



TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

4

City: IRVINE
N Direction: MACARTHUR BOULEVARD
W Direction: MICHELSON DRIVE

File Name : H1105003
Site Code : 00005700
Start Date : 5/5/2011
Page No : 1

Groups Printed- Turning Movements

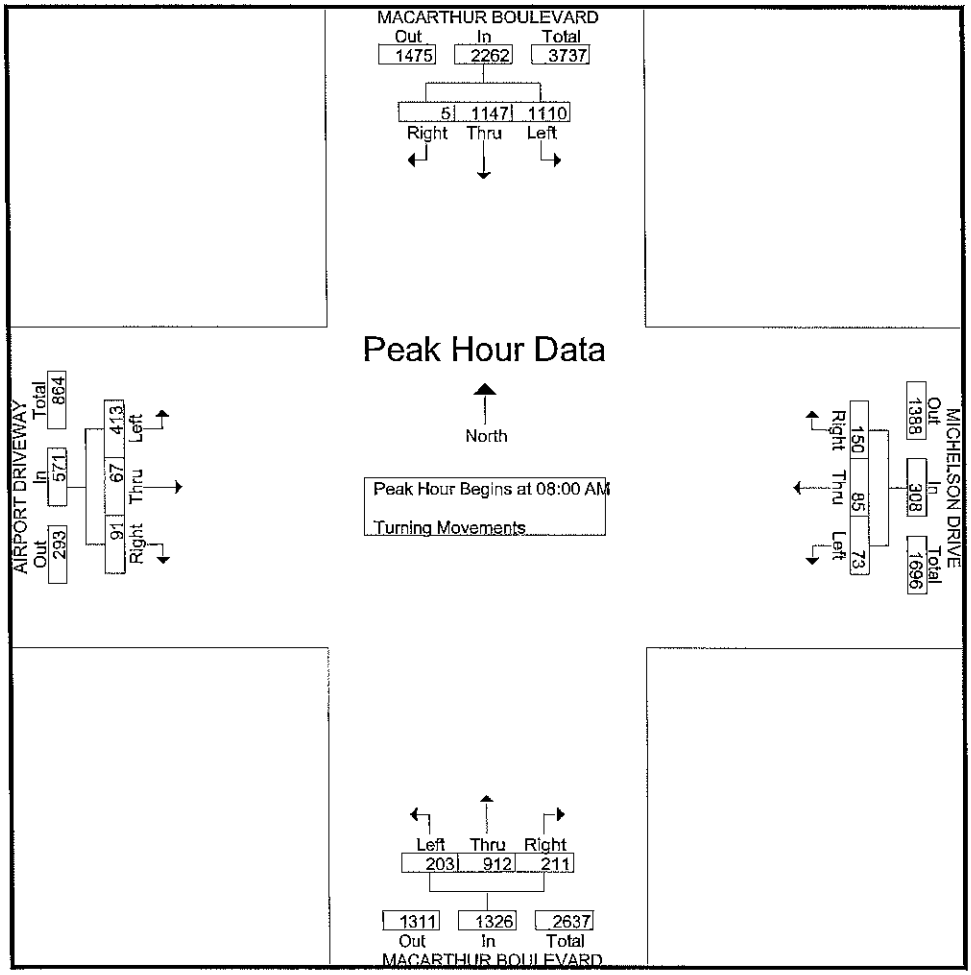
	MACARTHUR BOULEVARD Southbound			MICHELSON DRIVE Westbound			MACARTHUR BOULEVARD Northbound			AIRPORT DRIVEWAY Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	2	179	174	17	12	7	14	99	32	16	10	51	613
07:15 AM	1	244	176	16	12	4	18	102	36	16	14	62	701
07:30 AM	4	249	217	33	17	12	45	150	43	13	12	64	859
07:45 AM	0	240	256	17	15	21	54	163	47	15	22	79	929
Total	7	912	823	83	56	44	131	514	158	60	58	256	3102
08:00 AM	2	327	244	36	21	11	48	234	42	12	14	60	1051
08:15 AM	1	266	267	37	26	17	58	215	46	19	15	105	1072
08:30 AM	0	277	277	40	16	25	49	226	54	30	23	124	1141
08:45 AM	2	277	322	37	22	20	56	237	61	30	15	124	1203
Total	5	1147	1110	150	85	73	211	912	203	91	67	413	4467
*** BREAK ***													
04:30 PM	4	178	111	134	31	81	26	303	55	27	29	137	1116
04:45 PM	2	204	120	101	25	93	24	287	42	33	30	102	1063
Total	6	382	231	235	56	174	50	590	97	60	59	239	2179
05:00 PM	1	215	173	82	34	110	25	336	49	38	37	132	1232
05:15 PM	2	302	173	144	32	119	21	412	53	26	35	120	1439
05:30 PM	4	205	156	137	32	127	31	263	43	27	32	140	1197
05:45 PM	3	236	160	116	20	117	25	290	44	26	28	126	1191
Total	10	958	662	479	118	473	102	1301	189	117	132	518	5059
06:00 PM	1	277	117	110	22	104	27	233	51	31	37	129	1139
06:15 PM	2	249	100	131	20	66	22	251	58	26	23	107	1055
Grand Total	31	3925	3043	1188	357	934	543	3801	756	385	376	1662	17001
Apprch %	0.4	56.1	43.5	47.9	14.4	37.7	10.6	74.5	14.8	15.9	15.5	68.6	
Total %	0.2	23.1	17.9	7	2.1	5.5	3.2	22.4	4.4	2.3	2.2	9.8	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
S Direction: MACARTHUR BOULEVARD
W Direction: MICHELSON DRIVE

File Name : H1105003
Site Code : 00005700
Start Date : 5/5/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				MICHELSON DRIVE Westbound				MACARTHUR BOULEVARD Northbound				AIRPORT DRIVEWAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	**2**	**327**	244	573	36	21	11	68	48	234	42	324	12	14	60	86	1051
08:15 AM	1	266	267	534	37	**26**	17	80	**58**	215	46	319	19	15	105	139	1072
08:30 AM	0	277	277	554	40	16	**25**	**81**	49	226	54	329	**30**	**23**	**124**	**177**	1141
08:45 AM	2	277	**322**	**601**	37	22	20	79	56	**237**	**61**	**354**	30	15	124	169	**1203**
Total Volume	5	1147	1110	2262	150	85	73	308	211	912	203	1326	91	67	413	571	4467
% App. Total	0.2	50.7	49.1		48.7	27.6	23.7		15.9	68.8	15.3		15.9	11.7	72.3		
PHF	.625	.877	.862	.941	.938	.817	.730	.951	.909	.962	.832	.936	.758	.728	.833	.806	.928

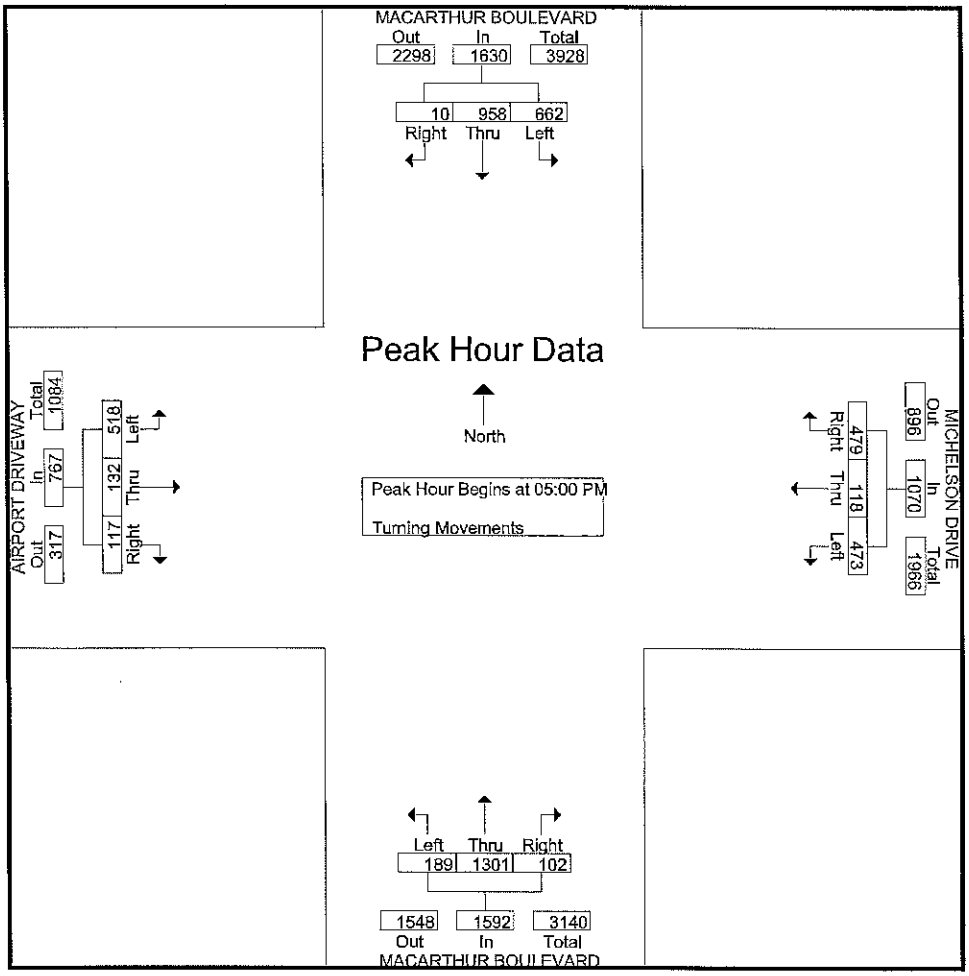


TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N Direction: MACARTHUR BOULEVARD
W Direction: MICHELSON DRIVE

File Name : H1105003
Site Code : 00005700
Start Date : 5/5/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				MICHELSON DRIVE Westbound				MACARTHUR BOULEVARD Northbound				AIRPORT DRIVEWAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	1	215	**173**	389	82	**34**	110	226	25	336	49	410	**38**	**37**	132	**207**	1232
05:15 PM	2	**302**	173	**477**	**144**	32	119	295	21	**412**	**53**	**486**	26	35	120	181	**1439**
05:30 PM	4	205	156	365	137	32	**127**	**296**	**31**	263	43	337	27	32	**140**	199	1197
05:45 PM	3	236	160	399	116	20	117	253	25	290	44	359	26	28	126	180	1191
Total Volume	10	958	662	1630	479	118	473	1070	102	1301	189	1592	117	132	518	767	5059
% App. Total	0.6	58.8	40.6		44.8	**11**	44.2		6.4	81.7	11.9		15.3	17.2	67.5		
PHF	.625	.793	.957	.854	.832	.868	.931	.904	.823	.789	.892	.819	.770	.892	.925	.926	.879



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: CAMPUS DRIVE

File Name : h1104053
Site Code : 00005700
Start Date : 5/4/2011
Page No : 1

Groups Printed- Turning Movements

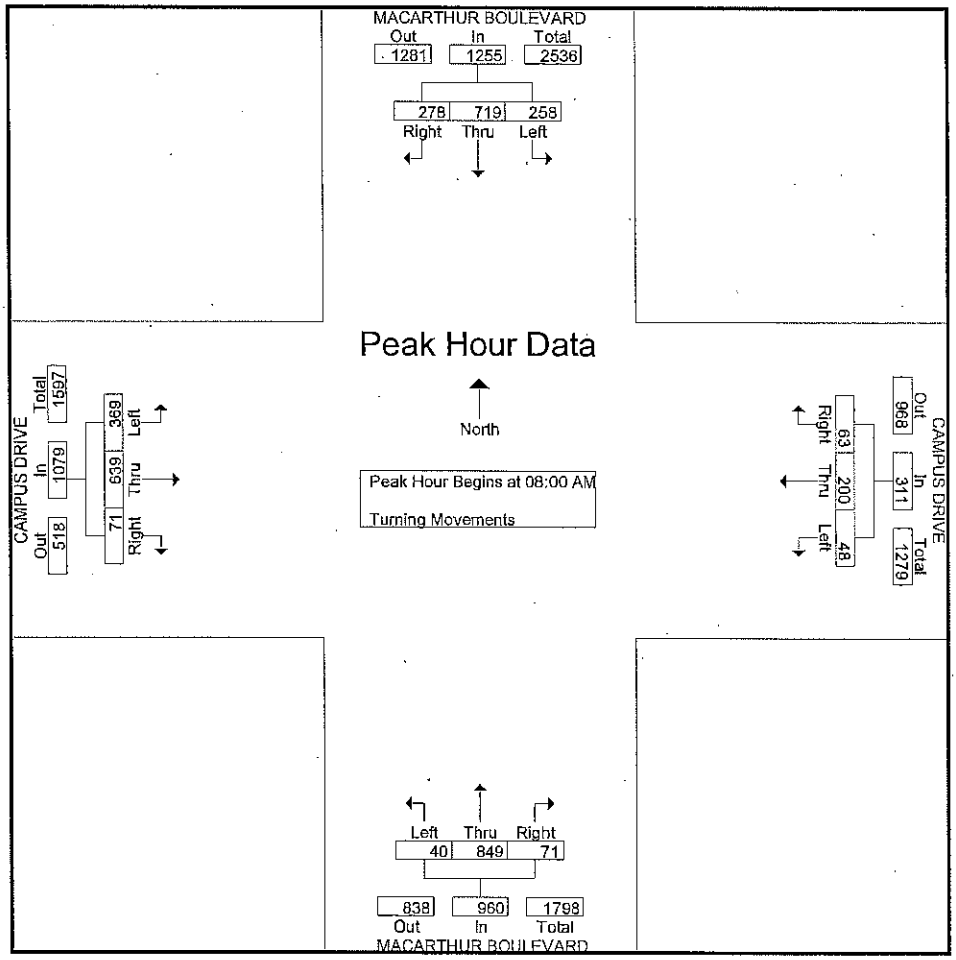
	MACARTHUR BOULEVARD Southbound			CAMPUS DRIVE Westbound			MACARTHUR BOULEVARD Northbound			CAMPUS DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	38	136	30	7	34	6	5	100	5	14	49	42	466
07:15 AM	35	161	36	6	38	6	8	107	8	13	86	72	576
07:30 AM	48	138	51	11	35	2	17	134	13	9	97	82	637
07:45 AM	67	171	58	11	53	8	10	134	8	21	154	132	827
Total	188	606	175	35	160	22	40	475	34	57	386	328	2506
08:00 AM	49	163	72	13	36	11	15	203	11	11	182	121	887
08:15 AM	83	184	80	18	51	10	26	216	10	9	168	98	953
08:30 AM	57	162	63	10	58	8	15	219	8	30	146	74	850
08:45 AM	89	210	43	22	55	19	15	211	11	21	143	76	915
Total	278	719	258	63	200	48	71	849	40	71	639	369	3605
*** BREAK ***													
04:30 PM	80	198	9	22	115	22	4	275	19	21	69	44	878
04:45 PM	112	196	15	26	148	19	3	287	17	23	57	60	963
Total	192	394	24	48	263	41	7	562	36	44	126	104	1841
05:00 PM	101	215	18	22	159	17	8	286	17	19	64	85	1011
05:15 PM	118	228	15	36	254	16	5	206	15	18	63	74	1048
05:30 PM	121	251	28	29	182	20	6	230	19	13	69	71	1039
05:45 PM	130	237	31	36	146	10	7	240	24	22	90	63	1036
Total	470	931	92	123	741	63	26	962	75	72	286	293	4134
06:00 PM	140	213	40	41	158	11	5	204	26	12	59	46	955
06:15 PM	133	186	27	37	117	12	6	222	18	17	62	54	891
Grand Total	1401	3049	616	347	1639	197	155	3274	229	273	1558	1194	13932
Apprch %	27.7	60.2	12.2	15.9	75.1	9	4.2	89.5	6.3	9	51.5	39.5	
Total %	10.1	21.9	4.4	2.5	11.8	1.4	1.1	23.5	1.6	2	11.2	8.6	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: CAMPUS DRIVE

File Name : h1104053
Site Code : 00005700
Start Date : 5/4/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				CAMPUS DRIVE Westbound				MACARTHUR BOULEVARD Northbound				CAMPUS DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	49	163	72	284	13	36	11	60	15	203	**11**	229	11	**182**	**121**	**314**	887
08:15 AM	83	184	**80**	**347**	18	51	10	79	**26**	216	10	**252**	9	168	98	275	**953**
08:30 AM	57	162	63	282	10	**58**	8	76	15	**219**	8	242	**30**	146	74	250	850
08:45 AM	**89**	**210**	43	342	**22**	55	**19**	**96**	15	211	11	237	21	143	76	240	915
Total Volume	278	719	258	1255	63	200	48	311	71	849	40	960	71	639	369	1079	3605
% App. Total	22.2	57.3	20.6		20.3	64.3	15.4		7.4	88.4	4.2		6.6	59.2	34.2		
PHF	.781	.856	.806	.904	.716	.862	.632	.810	.683	.969	.909	.952	.592	.878	.762	.859	.946

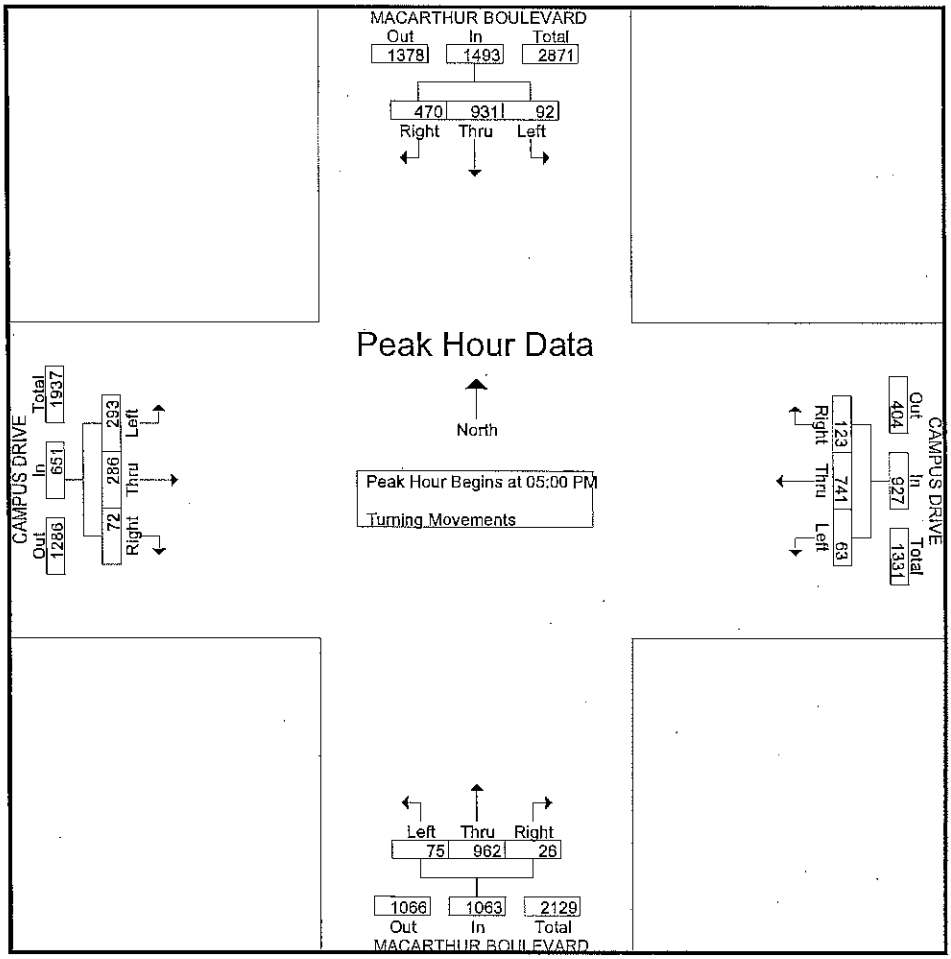


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: CAMPUS DRIVE

File Name : h1104053
Site Code : 00005700
Start Date : 5/4/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				CAMPUS DRIVE Westbound				MACARTHUR BOULEVARD Northbound				CAMPUS DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	101	215	18	334	22	159	17	198	**8**	**286**	17	**311**	19	64	**85**	168	1011
05:15 PM	118	228	15	361	**36**	**254**	16	**306**	5	206	15	226	18	63	74	155	**1048**
05:30 PM	121	**251**	28	**400**	29	182	**20**	231	6	230	19	255	13	69	71	153	1039
05:45 PM	**130**	237	**31**	398	36	146	10	192	7	240	24	271	**22**	**90**	63	**175**	1036
Total Volume	470	931	92	1493	123	741	63	927	26	962	75	1063	72	286	293	651	4134
% App. Total	31.5	62.4	6.2		13.3	79.9	6.8		2.4	90.5	7.1		11.1	43.9	45		
PHF	.904	.927	.742	.933	.854	.729	.788	.757	.813	.841	.781	.855	.818	.794	.862	.930	.986



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: BIRCH STREET

File Name : H1104052
Site Code : 00005058
Start Date : 4/28/2011
Page No : 1

Groups Printed- Turning Movements

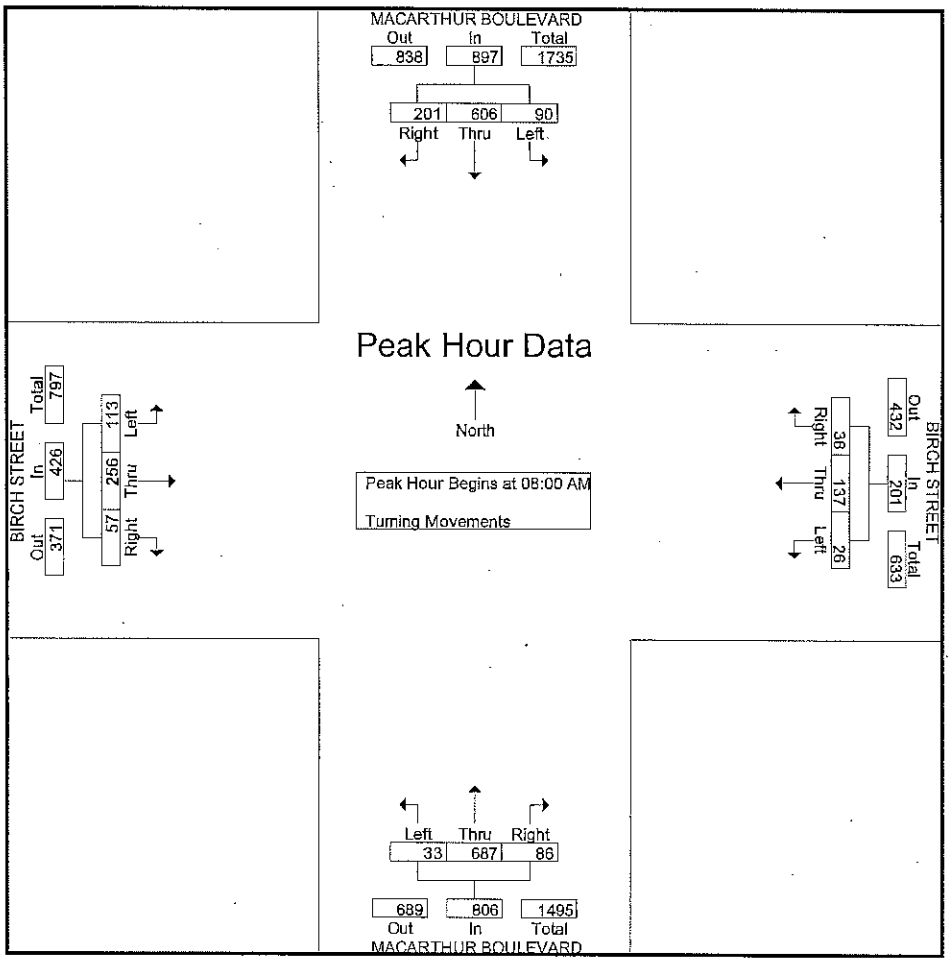
	MACARTHUR BOULEVARD Southbound			BIRCH STREET Westbound			MACARTHUR BOULEVARD Northbound			BIRCH STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	26	91	15	6	12	1	4	76	3	0	32	13	279
07:15 AM	38	102	17	2	17	0	13	123	5	11	27	19	374
07:30 AM	26	106	16	4	16	5	20	122	7	12	37	14	385
07:45 AM	44	130	18	3	13	4	22	134	5	17	48	21	459
Total	134	429	66	15	58	10	59	455	20	40	144	67	1497
08:00 AM	44	133	23	10	39	3	27	184	9	11	66	29	578
08:15 AM	56	138	17	7	32	6	17	171	7	16	63	24	554
08:30 AM	49	171	28	9	28	10	28	172	10	14	70	29	618
08:45 AM	52	164	22	12	38	7	14	160	7	16	57	31	580
Total	201	606	90	38	137	26	86	687	33	57	256	113	2330
*** BREAK ***													
04:30 PM	24	160	8	27	69	13	6	121	18	13	36	56	551
04:45 PM	49	219	16	43	66	6	5	159	21	7	49	54	694
Total	73	379	24	70	135	19	11	280	39	20	85	110	1245
05:00 PM	49	203	16	36	91	17	9	145	28	15	51	72	732
05:15 PM	36	213	9	34	105	39	3	188	23	13	64	81	808
05:30 PM	42	236	6	26	82	20	3	168	18	18	45	55	719
05:45 PM	45	202	12	33	113	23	10	172	43	12	37	66	768
Total	172	854	43	129	391	99	25	673	112	58	197	274	3027
06:00 PM	51	180	8	31	77	16	6	131	21	12	35	59	627
06:15 PM	41	148	8	25	50	13	4	128	20	8	39	64	548
Grand Total	672	2596	239	308	848	183	191	2354	245	195	756	687	9274
Apprch %	19.2	74	6.8	23	63.3	13.7	6.8	84.4	8.8	11.9	46.2	41.9	
Total %	7.2	28	2.6	3.3	9.1	2	2.1	25.4	2.6	2.1	8.2	7.4	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: BIRCH STREET

File Name : H1104052
Site Code : 00005058
Start Date : 4/28/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				BIRCH STREET Westbound				MACARTHUR BOULEVARD Northbound				BIRCH STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	44	133	23	200	10	**39**	3	52	27	**184**	9	**220**	11	66	29	106	578
08:15 AM	**56**	138	17	211	7	32	6	45	17	171	7	195	**16**	63	24	103	554
08:30 AM	49	**171**	**28**	**248**	9	28	**10**	47	**28**	172	**10**	210	14	**70**	29	**113**	**618**
08:45 AM	52	164	22	238	**12**	38	7	**57**	14	160	7	181	16	57	**31**	104	580
Total Volume	201	606	90	897	38	137	26	201	86	687	33	806	57	256	113	426	2330
% App. Total	22.4	67.6	10		18.9	68.2	12.9		10.7	85.2	4.1		13.4	60.1	26.5		
PHF	.897	.886	.804	.904	.792	.878	.650	.882	.768	.933	.825	.916	.891	.914	.911	.942	.943

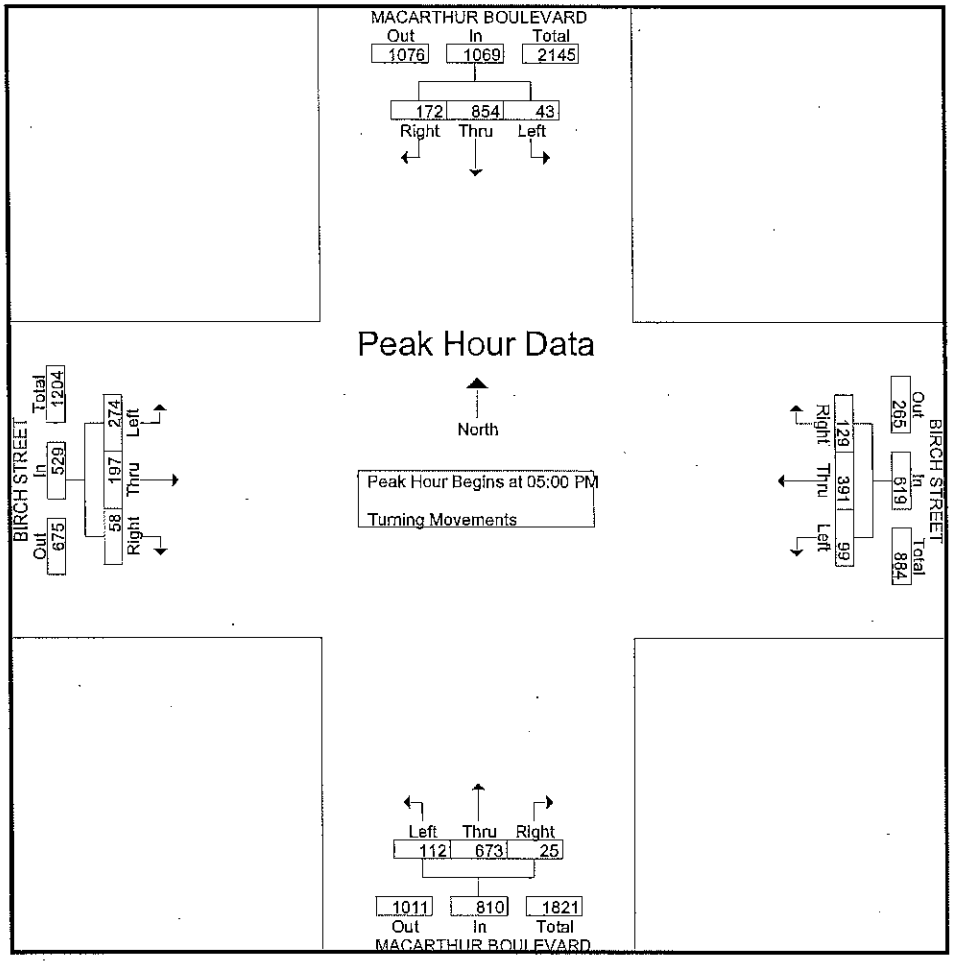


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: BIRCH STREET

File Name : H1104052
Site Code : 00005058
Start Date : 4/28/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				BIRCH STREET Westbound				MACARTHUR BOULEVARD Northbound				BIRCH STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**49**	203	**16**	268	**36**	91	17	144	9	145	28	182	15	51	72	138	732
05:15 PM	36	213	9	258	34	105	**39**	**178**	3	**188**	23	214	13	**64**	**81**	**158**	**808**
05:30 PM	42	**236**	6	**284**	26	82	20	128	3	168	18	189	**18**	45	55	118	719
05:45 PM	45	202	12	259	33	**113**	23	169	**10**	172	**43**	**225**	12	37	66	115	768
Total Volume	172	854	43	1069	129	391	99	619	25	673	112	810	58	197	274	529	3027
% App. Total	16.1	79.9	4		20.8	63.2	16		3.1	83.1	13.8		11	37.2	51.8		
PHF	.878	.905	.672	.941	.896	.865	.635	.869	.625	.895	.651	.900	.806	.770	.846	.837	.937



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: VON KARMAN AVENUE

File Name : h1104054
Site Code : 00005874
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

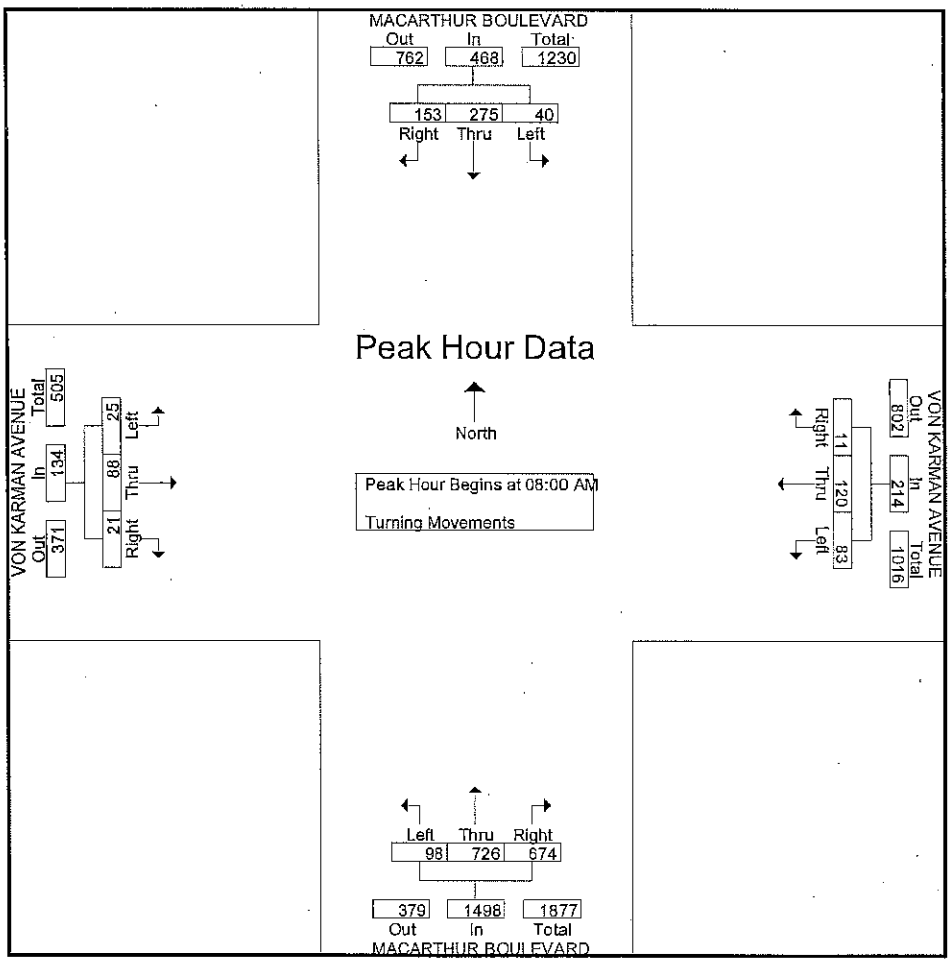
	MACARTHUR BOULEVARD Southbound			VON KARMAN AVENUE Westbound			MACARTHUR BOULEVARD Northbound			VON KARMAN AVENUE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	24	57	3	2	13	7	45	93	8	1	11	1	265
07:15 AM	23	41	4	1	7	10	50	110	5	4	11	3	269
07:30 AM	38	38	8	4	22	9	113	139	10	4	10	5	400
07:45 AM	32	62	4	1	22	11	150	186	12	4	12	3	499
Total	117	198	19	8	64	37	358	528	35	13	44	12	1433
08:00 AM	36	56	12	2	24	16	189	185	16	6	16	5	563
08:15 AM	44	74	8	5	36	26	160	190	22	2	25	10	602
08:30 AM	44	64	9	3	27	17	174	172	25	5	28	2	570
08:45 AM	29	81	11	1	33	24	151	179	35	8	19	8	579
Total	153	275	40	11	120	83	674	726	98	21	88	25	2314
*** BREAK ***													
04:30 PM	11	141	6	6	31	81	30	104	11	21	36	22	500
04:45 PM	16	162	9	18	23	77	32	117	13	33	40	23	563
Total	27	303	15	24	54	158	62	221	24	54	76	45	1063
05:00 PM	22	171	7	16	16	112	31	120	9	39	44	27	614
05:15 PM	18	209	5	17	24	180	35	151	6	41	50	42	778
05:30 PM	15	223	12	14	26	162	28	146	6	38	35	25	730
05:45 PM	17	190	3	16	22	163	32	131	16	34	44	17	685
Total	72	793	27	63	88	617	126	548	37	152	173	111	2807
06:00 PM	10	137	8	11	11	125	29	90	10	43	30	9	513
06:15 PM	5	153	8	11	13	108	19	87	7	22	35	18	486
Grand Total	384	1859	117	128	350	1128	1268	2200	211	305	446	220	8616
Apprch %	16.3	78.8	5	8	21.8	70.2	34.5	59.8	5.7	31.4	45.9	22.7	
Total %	4.5	21.6	1.4	1.5	4.1	13.1	14.7	25.5	2.4	3.5	5.2	2.6	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: VON KARMAN AVENUE

File Name : h1104054
Site Code : 00005874
Start Date : 5/3/2011
Page No : 2

	MACARTHUR BOULEVARD Southbound				VON KARMAN AVENUE Westbound				MACARTHUR BOULEVARD Northbound				VON KARMAN AVENUE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	36	56	12	104	2	24	16	42	189	185	16	390	6	16	5	27	563
08:15 AM	44	74	8	126	5	36	26	67	160	190	22	372	2	25	10	37	602
08:30 AM	44	64	9	117	3	27	17	47	174	172	25	371	5	28	2	35	570
08:45 AM	29	81	11	121	1	33	24	58	151	179	35	365	8	19	8	35	579
Total Volume	153	275	40	468	11	120	83	214	674	726	98	1498	21	88	25	134	2314
% App. Total	32.7	58.8	8.5		5.1	56.1	38.8		45	48.5	6.5		15.7	65.7	18.7		
PHF	.869	.849	.833	.929	.550	.833	.798	.799	.892	.955	.700	.960	.656	.786	.625	.905	.961

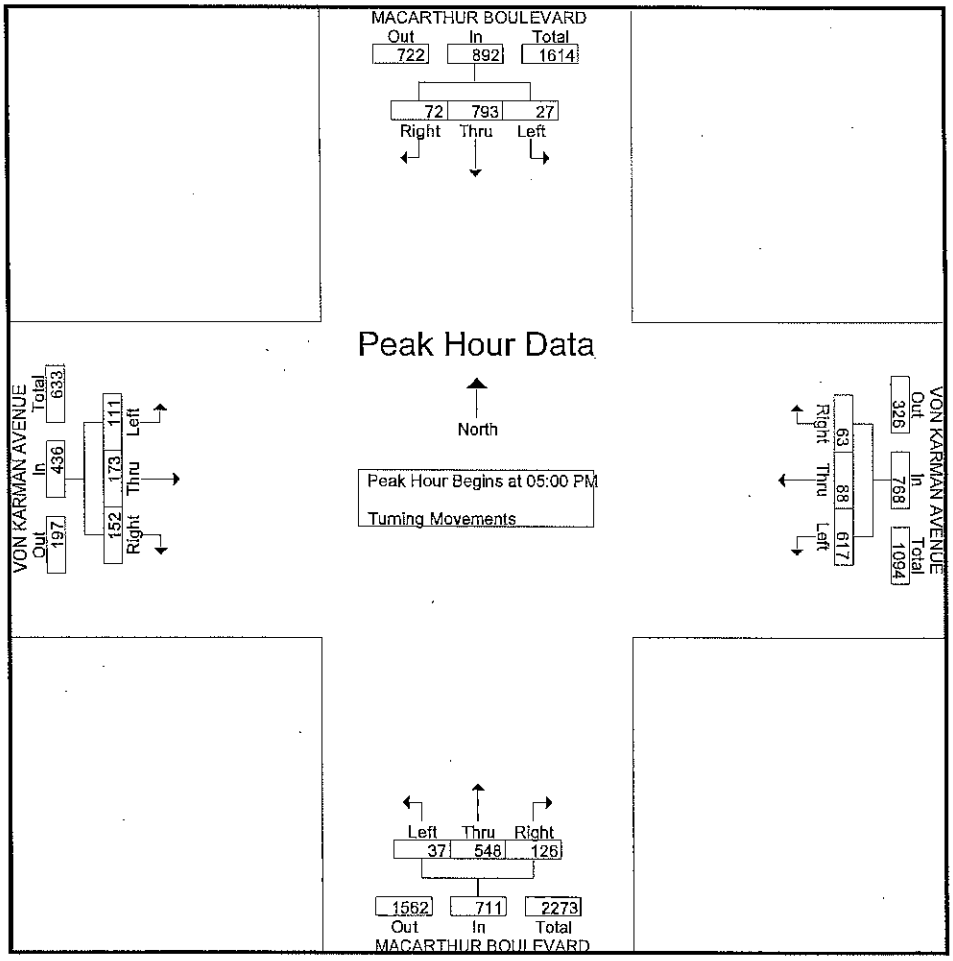


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: MACARTHUR BOULEVARD
E-W Direction: VON KARMAN AVENUE

File Name : h1104054
Site Code : 00005874
Start Date : 5/3/2011
Page No : 3

	MACARTHUR BOULEVARD Southbound				VON KARMAN AVENUE Westbound				MACARTHUR BOULEVARD Northbound				VON KARMAN AVENUE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**22**	171	7	200	16	16	112	144	31	120	9	160	39	44	27	110	614
05:15 PM	18	209	5	232	**17**	24	**180**	**221**	**35**	**151**	6	**192**	**41**	**50**	**42**	**133**	**778**
05:30 PM	15	**223**	**12**	**250**	14	**26**	162	202	28	146	6	180	38	35	25	98	730
05:45 PM	17	190	3	210	16	22	163	201	32	131	**16**	179	34	44	17	95	685
Total Volume	72	793	27	892	63	88	617	768	126	548	37	711	152	173	111	436	2807
% App. Total	8.1	88.9	3		8.2	11.5	80.3		17.7	77.1	5.2		34.9	39.7	25.5		
PHF	.818	.889	.563	.892	.926	.846	.857	.869	.900	.907	.578	.926	.927	.865	.661	.820	.902



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: MACARTHUR BOULEVARD

File Name : H1104048
Site Code : 00005058
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

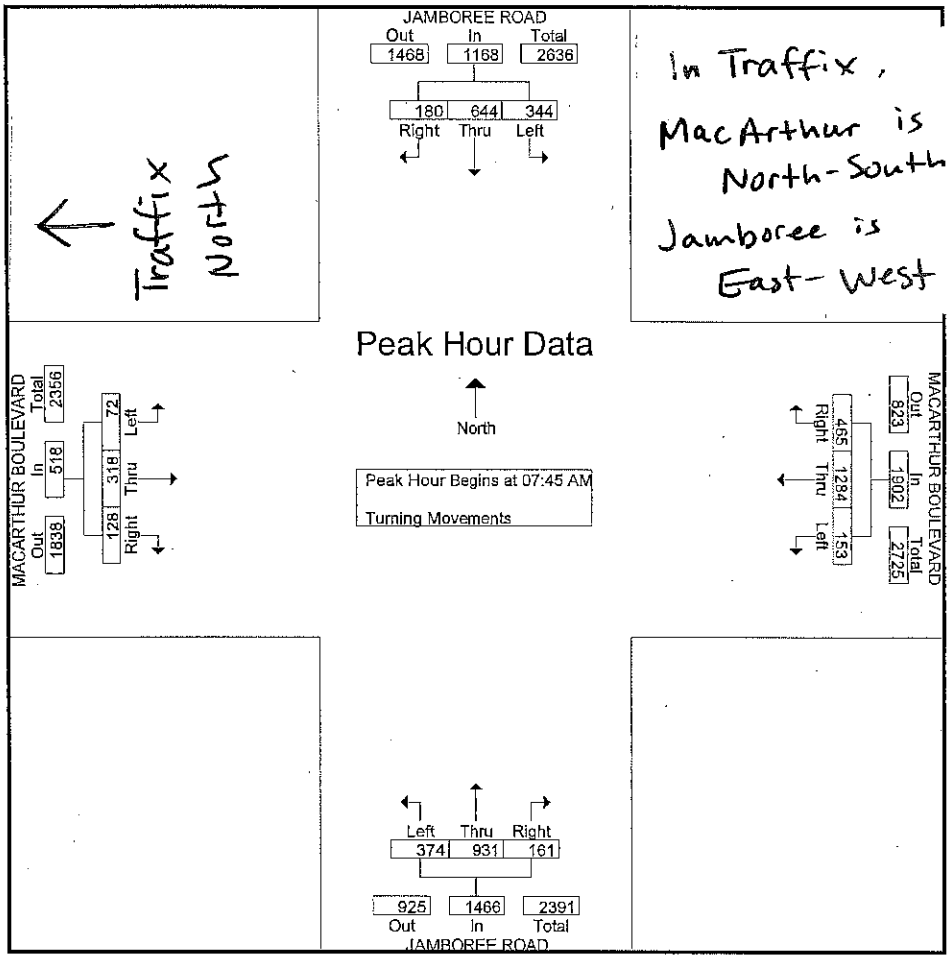
	JAMBOREE ROAD Southbound			MACARTHUR BOULEVARD Westbound			JAMBOREE ROAD Northbound			MACARTHUR BOULEVARD Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	31	142	57	51	172	15	24	121	38	29	40	13	733
07:15 AM	31	154	75	56	205	25	30	116	40	29	56	14	831
07:30 AM	49	156	97	65	227	17	32	160	75	20	51	13	962
07:45 AM	45	187	90	99	310	24	43	240	75	35	74	20	1242
Total	156	639	319	271	914	81	129	637	228	113	221	60	3768
08:00 AM	44	141	80	119	306	42	37	216	120	31	77	16	1229
08:15 AM	49	159	73	136	340	41	38	230	83	27	74	22	1272
08:30 AM	42	157	101	111	328	46	43	245	96	35	93	14	1311
08:45 AM	42	167	101	92	317	42	49	202	88	29	87	15	1231
Total	177	624	355	458	1291	171	167	893	387	122	331	67	5043
*** BREAK ***													
04:30 PM	26	192	110	74	86	28	6	180	50	65	175	30	1022
04:45 PM	35	228	125	74	114	62	7	258	35	75	235	25	1273
Total	61	420	235	148	200	90	13	438	85	140	410	55	2295
05:00 PM	32	205	132	78	98	66	6	196	51	63	233	33	1193
05:15 PM	35	242	145	89	112	64	7	261	47	65	241	35	1343
05:30 PM	42	235	154	97	116	54	5	241	61	75	256	42	1378
05:45 PM	33	225	153	94	103	72	5	254	40	85	234	42	1340
Total	142	907	584	358	429	256	23	952	199	288	964	152	5254
06:00 PM	46	223	154	87	95	56	8	211	46	75	252	35	1288
06:15 PM	38	224	144	119	92	45	7	225	40	81	244	36	1295
Grand Total	620	3037	1791	1441	3021	699	347	3356	985	819	2422	405	18943
Apprch %	11.4	55.7	32.9	27.9	58.5	13.5	7.4	71.6	21	22.5	66.4	11.1	
Total %	3.3	16	9.5	7.6	15.9	3.7	1.8	17.7	5.2	4.3	12.8	2.1	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: MACARTHUR BOULEVARD

File Name : H1104048
Site Code : 00005058
Start Date : 5/3/2011
Page No : 2

	JAMBOREE ROAD Southbound				MACARTHUR BOULEVARD Westbound				JAMBOREE ROAD Northbound				MACARTHUR BOULEVARD Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	45	**187**	90	**322**	99	310	24	433	**43**	240	75	358	**35**	74	20	129	1242
08:00 AM	44	141	80	265	119	306	42	467	37	216	**120**	373	31	77	16	124	1229
08:15 AM	**49**	159	73	281	**136**	**340**	41	**517**	38	230	83	351	27	74	**22**	123	1272
08:30 AM	42	157	**101**	300	111	328	**46**	485	43	**245**	96	**384**	35	**93**	14	**142**	**1311**
Total Volume	180	644	344	1168	465	1284	153	1902	161	931	374	1466	128	318	72	518	5054
% App. Total	15.4	55.1	29.5		24.4	67.5	8		11	63.5	25.5		24.7	61.4	13.9		
PHF	.918	.861	.851	.907	.855	.944	.832	.920	.936	.950	.779	.954	.914	.855	.818	.912	.964

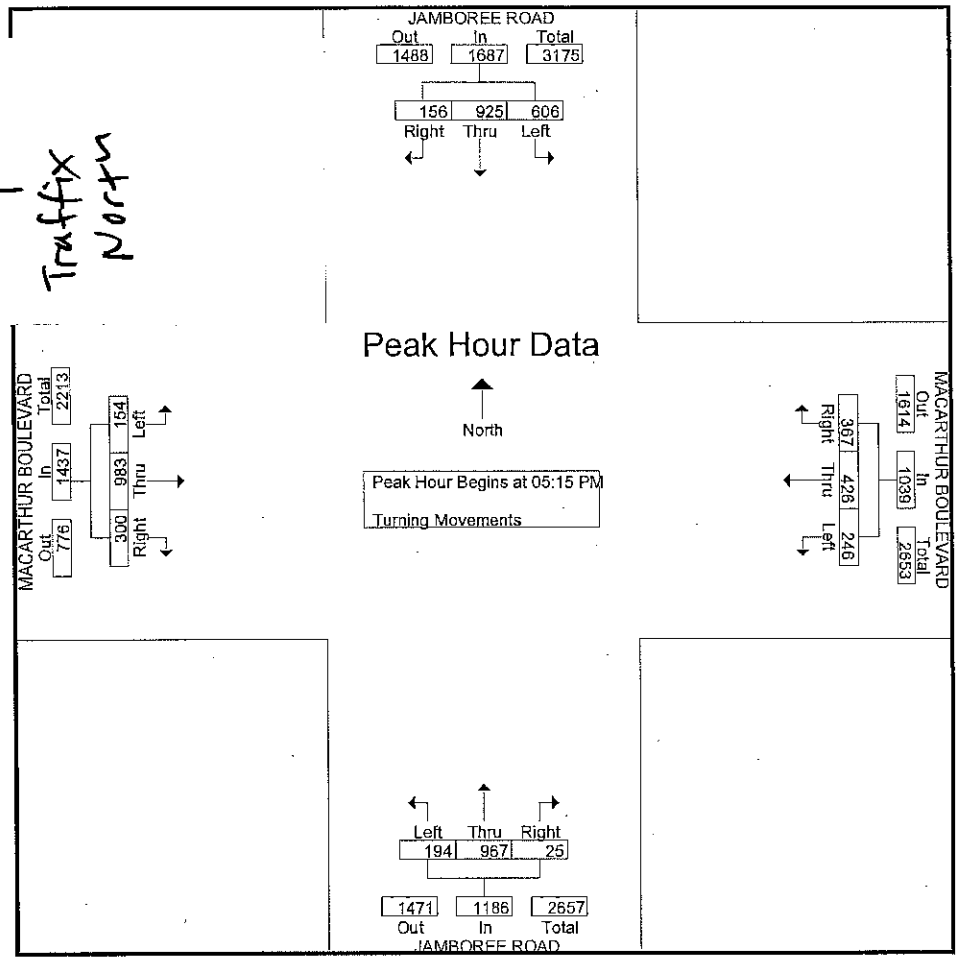


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: MACARTHUR BOULEVARD

File Name : H1104048
Site Code : 00005058
Start Date : 5/3/2011
Page No : 3

	JAMBOREE ROAD Southbound				MACARTHUR BOULEVARD Westbound				JAMBOREE ROAD Northbound				MACARTHUR BOULEVARD Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	35	**242**	145	422	89	112	64	265	7	**261**	47	**315**	65	241	35	341	1343
05:30 PM	42	235	**154**	**431**	**97**	**116**	54	267	5	241	**61**	307	75	**256**	**42**	**373**	**1378**
05:45 PM	33	225	153	411	94	103	**72**	**269**	5	254	40	299	**85**	234	42	361	1340
06:00 PM	**46**	223	154	423	87	95	56	238	**8**	211	46	265	75	252	35	362	1288
Total Volume	156	925	606	1687	367	426	246	1039	25	967	194	1186	300	983	154	1437	5349
% App. Total	9.2	54.8	35.9		35.3	41	23.7		2.1	81.5	16.4		20.9	68.4	10.7		
PHF	.848	.956	.984	.979	.946	.918	.854	.966	.781	.926	.795	.941	.882	.960	.917	.963	.970



ITM Peak Hour Summary

Prepared by:

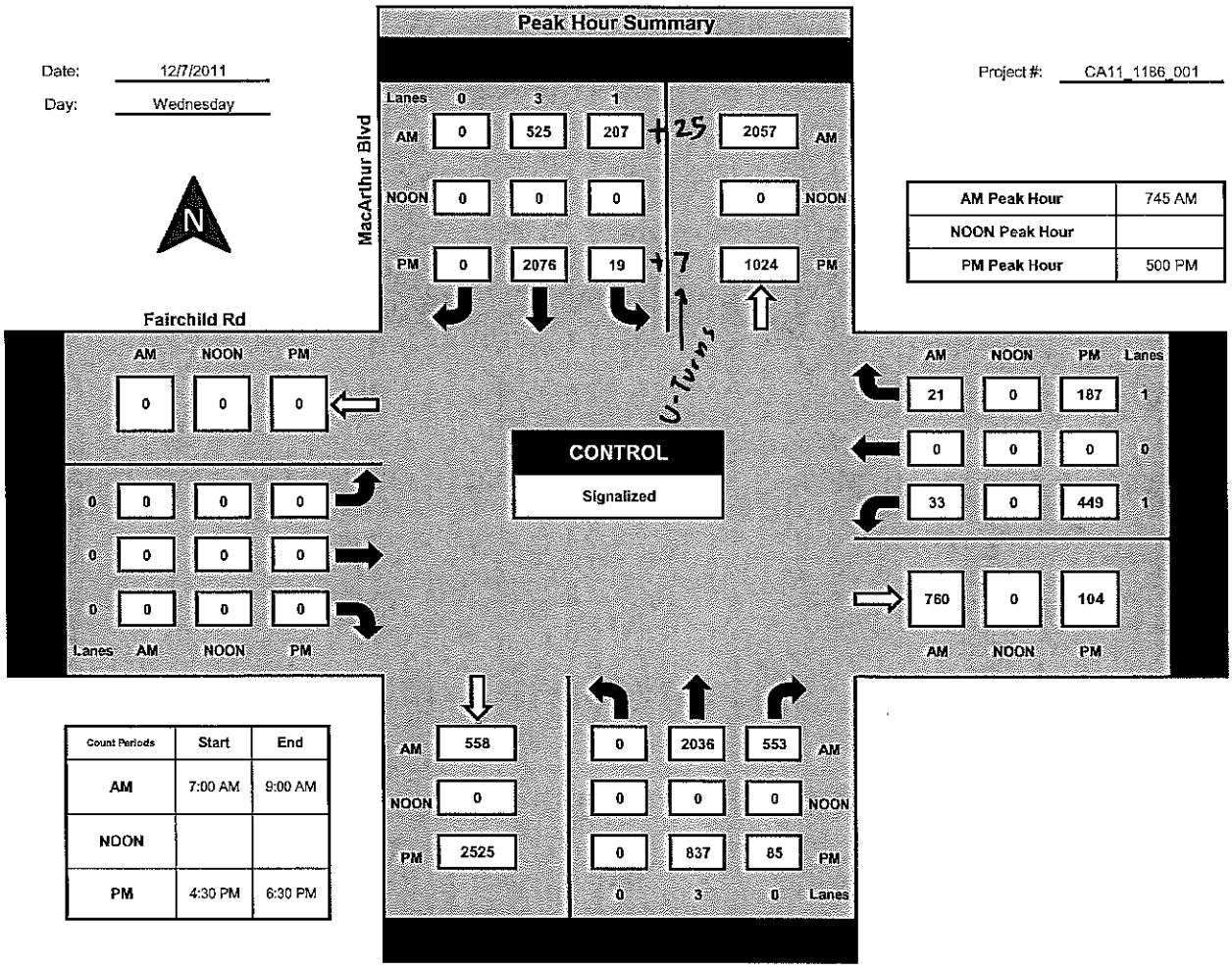
National Data & Surveying Services

MacArthur Blvd and Fairchild Rd , City of Irvine

Date: 12/7/2011

Day: Wednesday

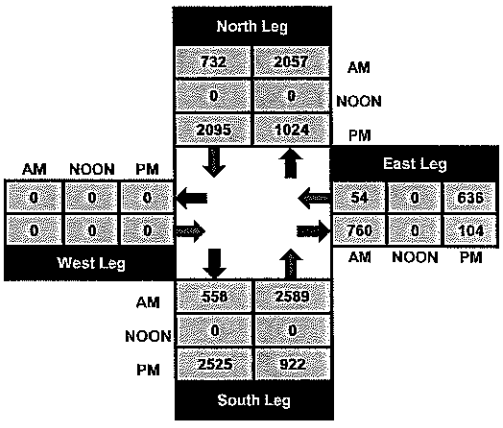
Project #: CA11_1186_001



AM Peak Hour	745 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



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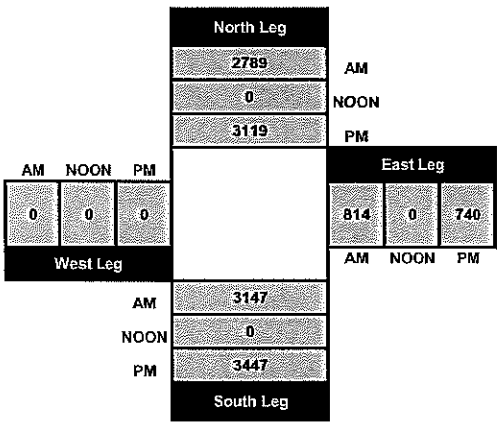
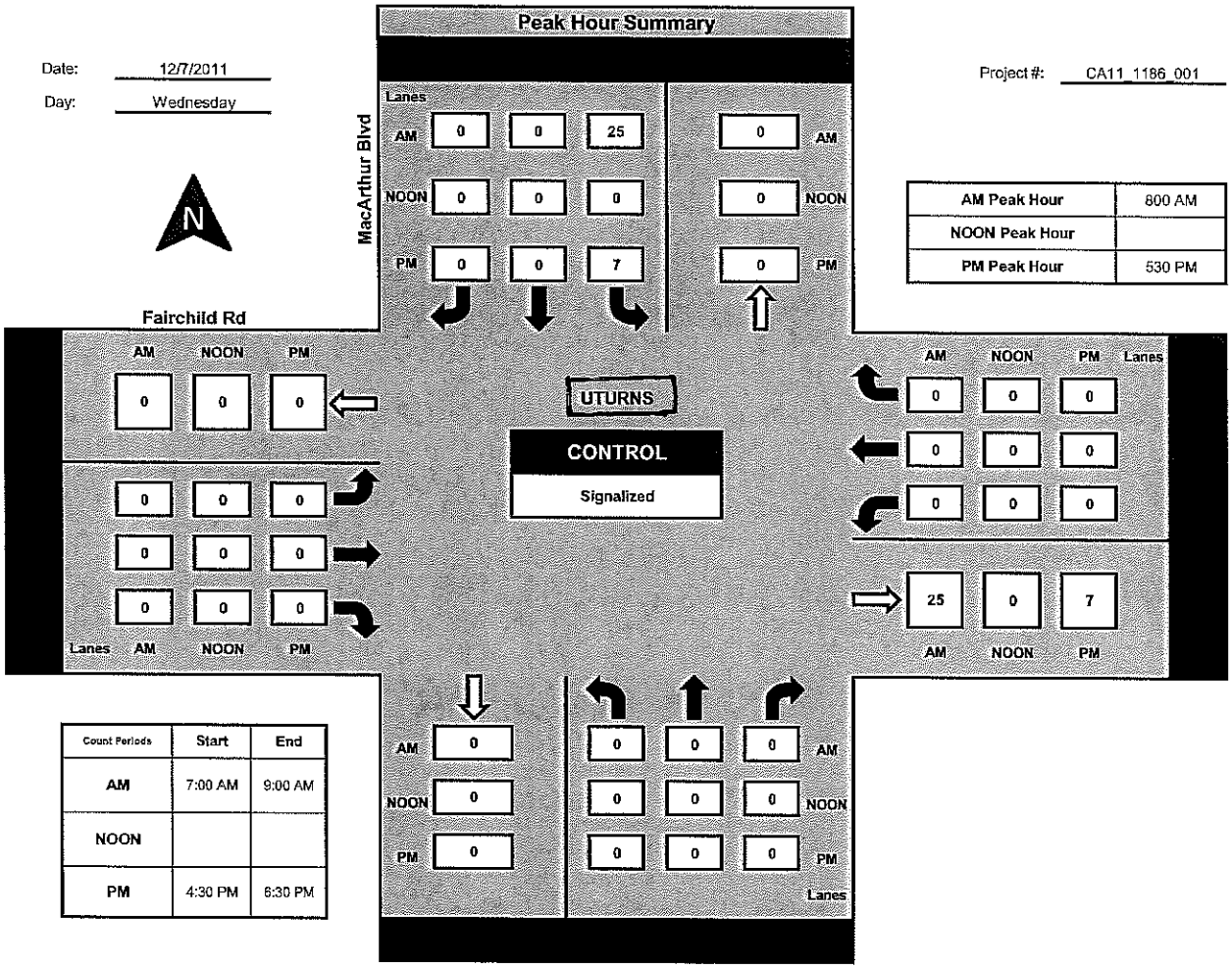


ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

MacArthur Blvd and Fairchild Rd , City of Irvine



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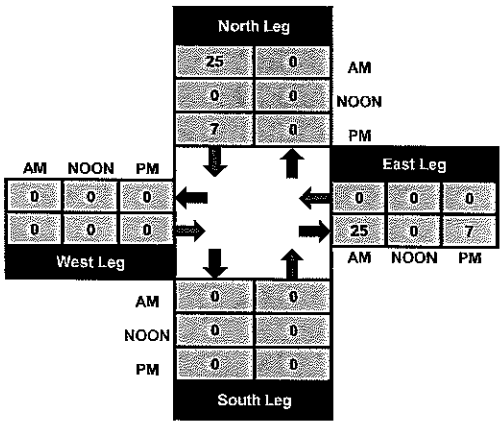

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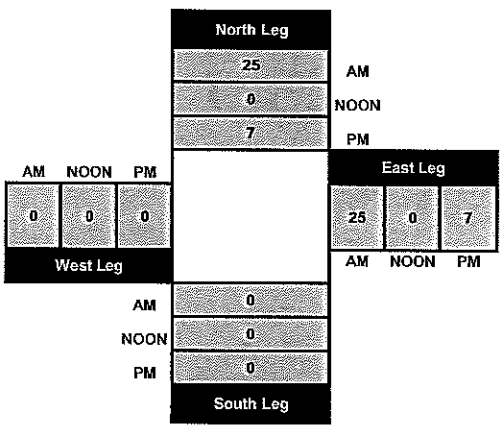


Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_001

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	MacArthur Blvd			MacArthur Blvd			Fairchild Rd			Fairchild Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 0	ER 0	WL 1	WT 0	WR 1	TOTAL
7:00 AM		182	34	24	67					4		5	316
7:15 AM		239	55	31	109					7		3	444
7:30 AM		299	79	26	122					13		3	542
7:45 AM		486	135	55	124					3		6	809
8:00 AM		517	132	47	125					10		6	837
8:15 AM		550	137	54	131					12		4	888
8:30 AM		483	149	51	145					8		5	841
8:45 AM		443	127	58	166					5		7	806
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	3199	848	346	989	0	0	0	0	62	0	39	5483
APPROACH %'s :	0.00%	79.05%	20.95%	25.92%	74.08%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	61.39%	0.00%	38.61%	
PEAK HR START TIME :	745 AM												TOTAL
PEAK HR VOL :	0	2036	553	207	525	0	0	0	0	33	0	21	3375
PEAK HR FACTOR :		0.942		25 232	0.934			0.000			0.844		0.950

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_001

Day: WEDNESDAY

City: City of Irvine

UTURNS

Date: 12/07/2011

AM

NS/EW Streets:	MacArthur Blvd			MacArthur Blvd			Fairchild Rd			Fairchild Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
7:00 AM				2									2
7:15 AM				1									1
7:30 AM				2									2
7:45 AM				1									1
8:00 AM				6									6
8:15 AM				8									8
8:30 AM				7									7
8:45 AM				4									4

	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	31	0	0	0	0	0	0	0	0	31
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	0	0	0	25	0	0	0	0	0	0	0	0	25
PEAK HR FACTOR :		0.000			0.781			0.000			0.000		0.781

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_001

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	MacArthur Blvd			MacArthur Blvd			Fairchild Rd			Fairchild Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 0	ER 0	WL 1	WT 0	WR 1	TOTAL
4:30 PM		195	12	3	341					63		36	650
4:45 PM		209	15	1	431					66		25	747
5:00 PM		183	26	9	464					113		44	839
5:15 PM		234	26	3	590					127		45	1025
5:30 PM		206	17	3	540					99		60	925
5:45 PM		214	16	4	482					110		38	864
6:00 PM		161	16	6	427					76		32	718
6:15 PM		175	6	6	388					69		28	672
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	1577	134	35	3663	0	0	0	0	723	0	308	6440
APPROACH %'s :	0.00%	92.17%	7.83%	0.95%	99.05%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	70.13%	0.00%	29.87%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	0	837	85	19	2076	0	0	0	0	449	0	187	3653
PEAK HR FACTOR :		0.887		7	0.883			0.000			0.924		0.891

26

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_001

Day: WEDNESDAY

UTURNS

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	MacArthur Blvd			MacArthur Blvd			Fairchild Rd			Fairchild Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
4:30 PM				0									
4:45 PM				2									2
5:00 PM				2									2
5:15 PM				0									
5:30 PM				1									1
5:45 PM				0									
6:00 PM				1									1
6:15 PM				5									5

	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	11	0	0	0	0	0	0	0	0	11
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

PEAK HR START TIME :	530 PM												TOTAL
PEAK HR VOL :	0	0	0	7	0	0	0	0	0	0	0	0	7
PEAK HR FACTOR :		0.000			0.350			0.000			0.000		0.350

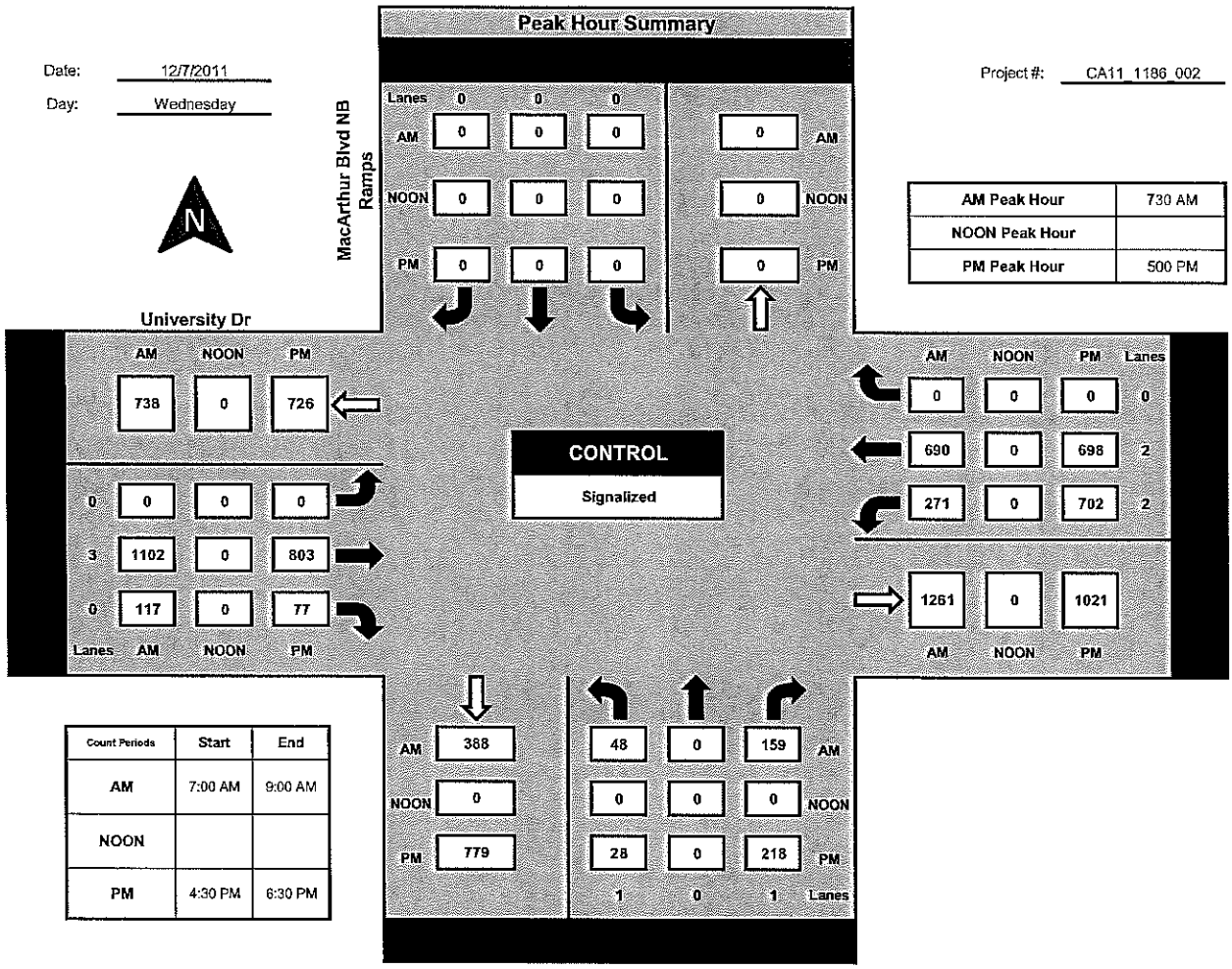
CONTROL : Signalized

ITM Peak Hour Summary

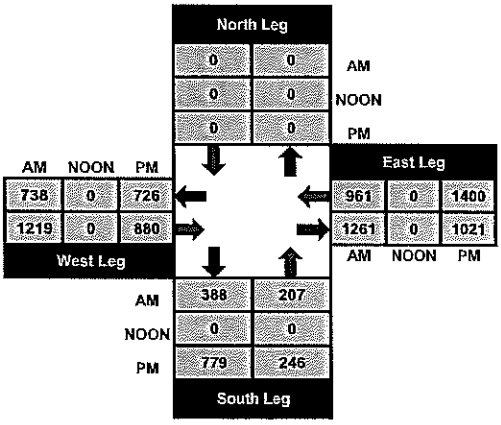
Prepared by:

National Data & Surveying Services

MacArthur Blvd NB Ramps and University Dr , City of Irvine



Total Ins & Outs



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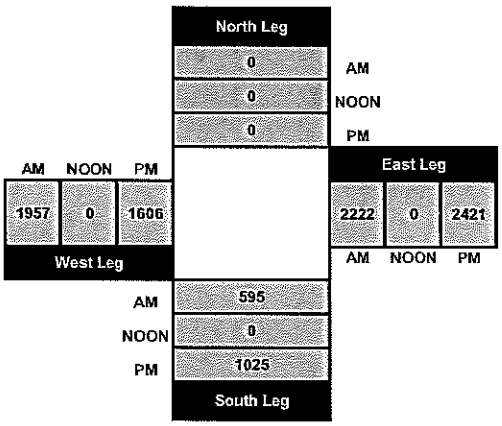


Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_002

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	MacArthur Blvd NB Ramps			MacArthur Blvd NB Ramps			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 3	ER 0	WL 2	WT 2	WR 0	TOTAL
7:00 AM	3		26					128	13	32	90		292
7:15 AM	8		32					208	12	44	123		427
7:30 AM	31		29					244	37	55	134		530
7:45 AM	7		38					303	34	68	199		649
8:00 AM	3		38					302	29	67	153		592
8:15 AM	7		54					253	17	81	204		616
8:30 AM	4		45					211	30	71	158		519
8:45 AM	4		32					207	27	65	174		509
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	67	0	294	0	0	0	0	1856	199	483	1235	0	4134
APPROACH %'s :	18.56%	0.00%	81.44%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	90.32%	9.68%	28.11%	71.89%	0.00%	
PEAK HR START TIME :	730 AM												TOTAL
PEAK HR VOL :	48	0	159	0	0	0	0	1102	117	271	690	0	2387
PEAK HR FACTOR :		0.848			0.000			0.904			0.843		0.919

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_002

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	MacArthur Blvd NB Ramps			MacArthur Blvd NB Ramps			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 3	ER 0	WL 2	WT 2	WR 0	TOTAL
4:30 PM	5		47					196	19	100	118		485
4:45 PM	3		48					188	10	116	105		470
5:00 PM	4		50					190	28	184	174		630
5:15 PM	12		68					218	21	216	183		718
5:30 PM	3		55					220	14	156	163		611
5:45 PM	9		45					175	14	146	178		567
6:00 PM	3		54					192	21	147	153		570
6:15 PM	2		63					190	21	130	165		571
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	41	0	430	0	0	0	0	1569	148	1195	1239	0	4622
APPROACH %'s :	8.70%	0.00%	91.30%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	91.38%	8.62%	49.10%	50.90%	0.00%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	28	0	218	0	0	0	0	803	77	702	698	0	2526
PEAK HR FACTOR :		0.769			0.000			0.921			0.877		0.880

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

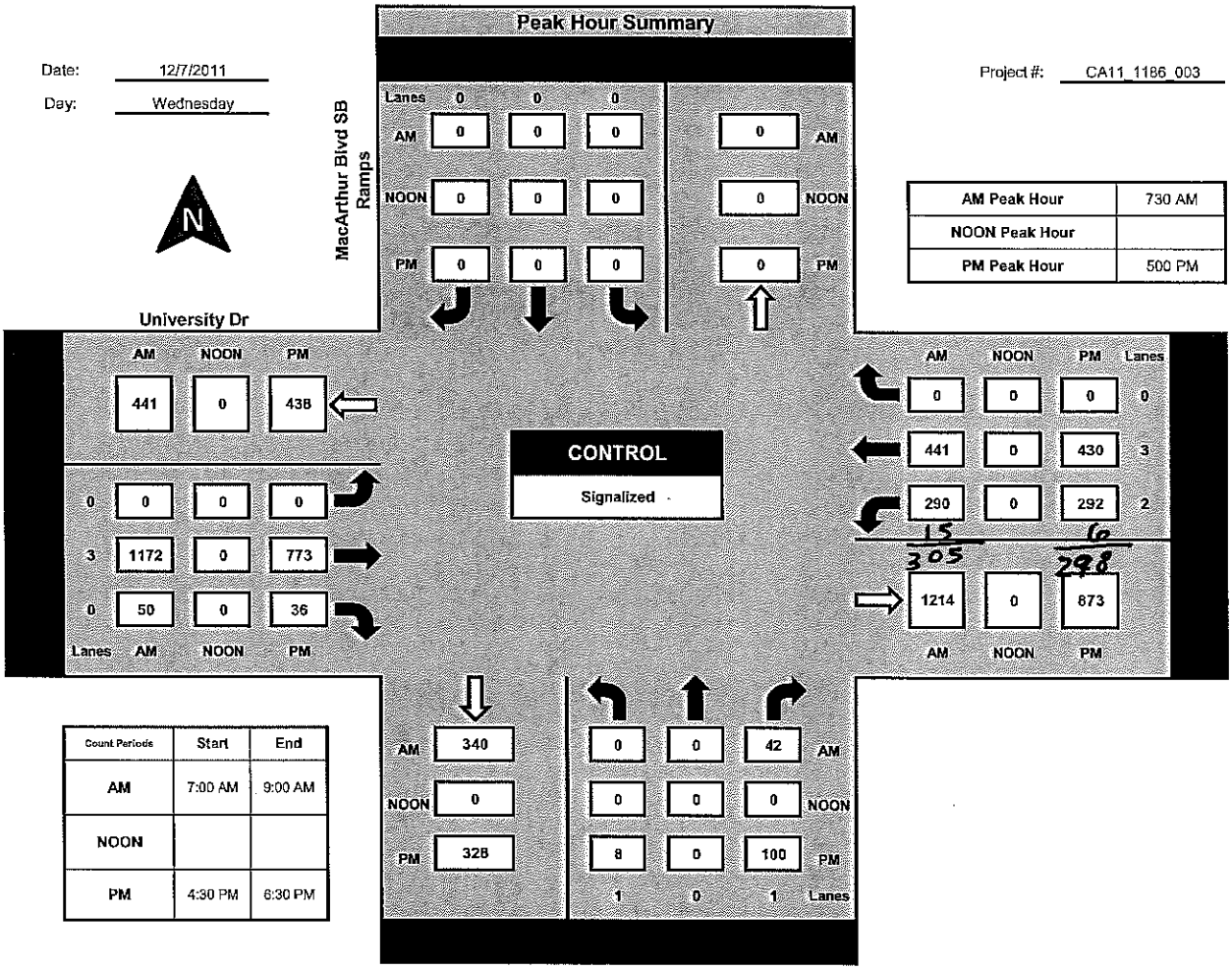
National Data & Surveying Services

MacArthur Blvd SB Ramps and University Dr , City of Irvine

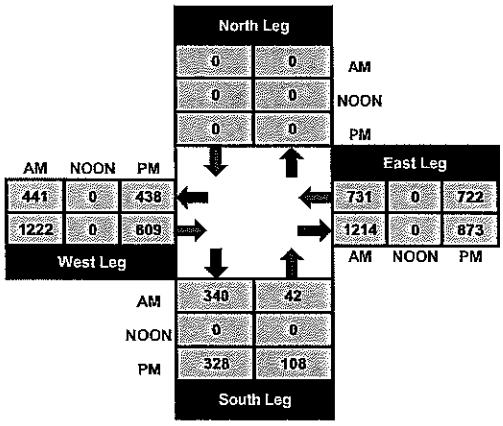
Date: 12/7/2011

Day: Wednesday

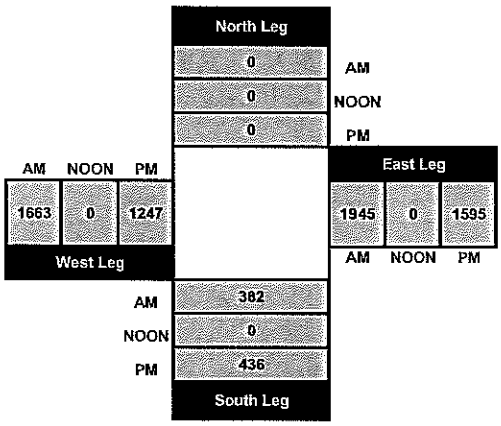
Project #: CA11_1186_003



Total Ins & Outs



Total Volume Per Leg



ITM Peak Hour Summary

Prepared by:

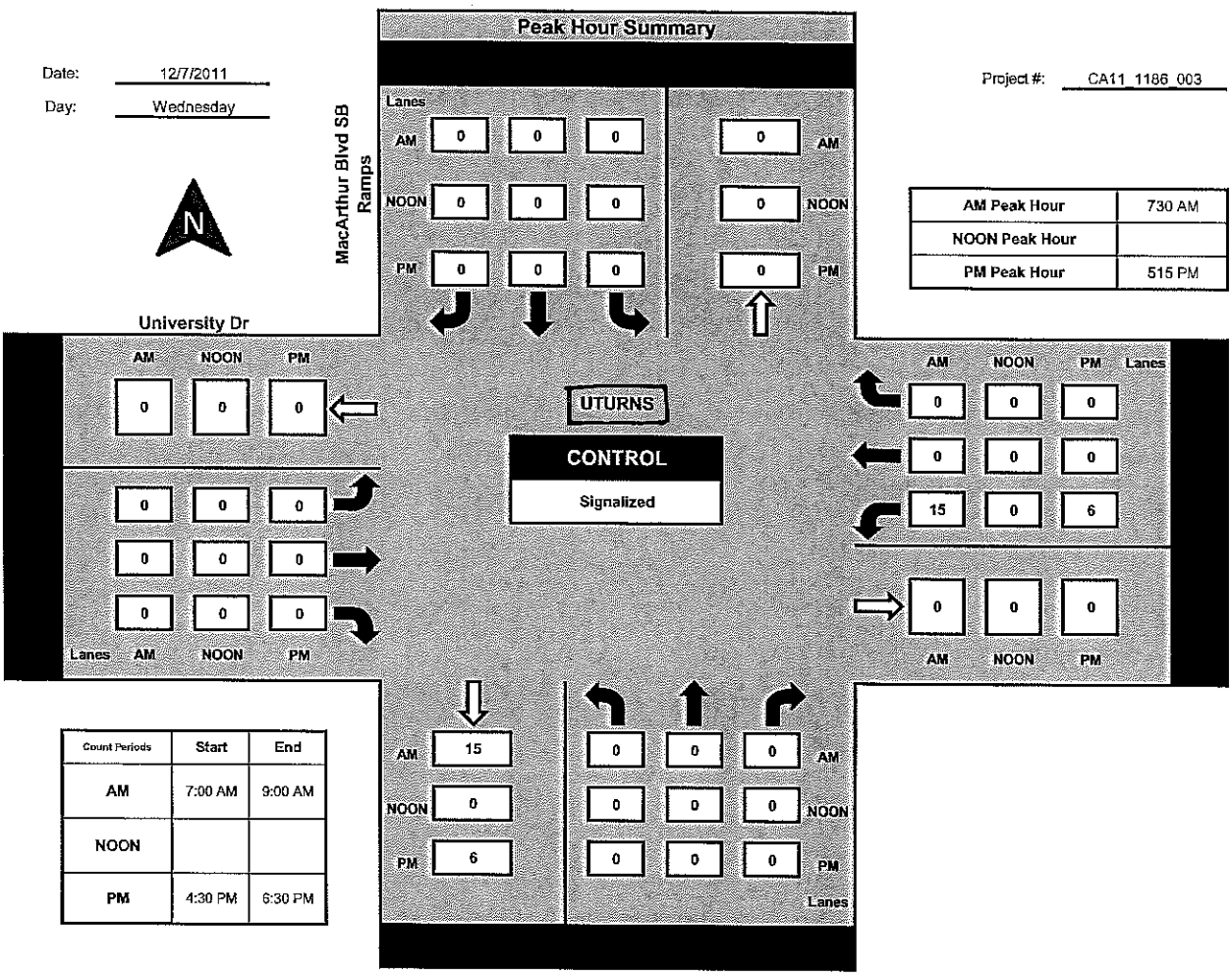
National Data & Surveying Services

MacArthur Blvd SB Ramps and University Dr , City of Irvine

Date: 12/7/2011

Day: Wednesday

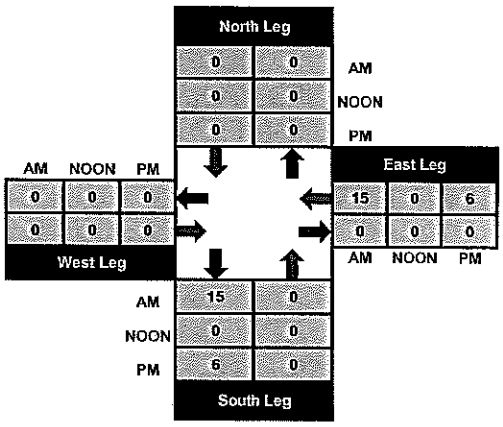
Project #: CA11_1186_003



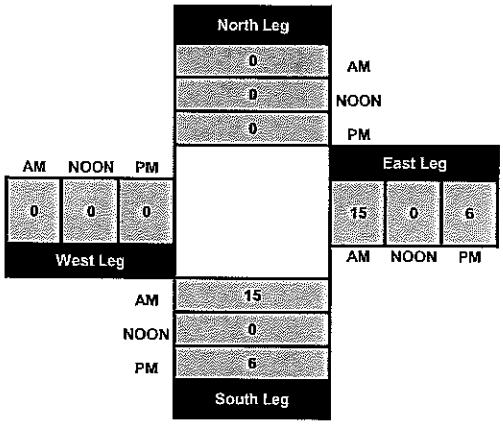
AM Peak Hour	730 AM
NOON Peak Hour	
PM Peak Hour	515 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_003

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	MacArthur Blvd SB Ramps			MacArthur Blvd SB Ramps			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	0	1	0	0	0	0	3	0	2	3	0	
7:00 AM	0		2					147	5	31	56		241
7:15 AM	0		4					214	8	43	80		349
7:30 AM	0		10					268	17	65	105		465
7:45 AM	0		10					324	17	100	104		555
8:00 AM	0		17					314	9	53	103		496
8:15 AM	0		5					266	7	72	129		479
8:30 AM	0		5					239	14	74	97		429
8:45 AM	1		6					224	13	82	89		415

	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	1	0	59	0	0	0	0	1996	90	520	763	0	3429
APPROACH %'s :	1.67%	0.00%	98.33%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	95.69%	4.31%	40.53%	59.47%	0.00%	

PEAK HR START TIME :	730 AM												TOTAL
PEAK HR VOL :	0	0	42	0	0	0	0	1172	50	290	441	0	1995
PEAK HR FACTOR :		0.618			0.000			0.896		15	0.896		0.899

305

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_003

Day: WEDNESDAY

City: City of Irvine

UTURNS

Date: 12/07/2011

AM

NS/EW Streets:	MacArthur Blvd SB Ramps			MacArthur Blvd SB Ramps			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
7:00 AM										1			1
7:15 AM										0			
7:30 AM										4			4
7:45 AM										3			3
8:00 AM										2			2
8:15 AM										6			6
8:30 AM										2			2
8:45 AM										1			1
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	19	0	0	19
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	
PEAK HR START TIME :	730 AM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	15	0	0	15
PEAK HR FACTOR :		0.000			0.000			0.000			0.625		0.625

CONTROL : Signalized

11

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_003

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	MacArthur Blvd SB Ramps			MacArthur Blvd SB Ramps			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 3	ER 0	WL 2	WT 3	WR 0	TOTAL
4:30 PM	0		20					197	9	58	65		349
4:45 PM	1		20					178	6	39	70		314
5:00 PM	0		36					182	9	60	118		405
5:15 PM	3		21					217	9	73	114		437
5:30 PM	3		20					198	10	82	90		403
5:45 PM	2		23					176	8	77	108		394
6:00 PM	2		22					187	4	52	103		370
6:15 PM	3		14					191	5	65	97		375
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	14	0	176	0	0	0	0	1526	60	506	765	0	3047
APPROACH %'s :	7.37%	0.00%	92.63%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	96.22%	3.78%	39.81%	60.19%	0.00%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	8	0	100	0	0	0	0	773	36	292	430	0	1639
PEAK HR FACTOR :		0.750			0.000			0.895		6 / 298	0.965		0.938

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_003

Day: WEDNESDAY

City: City of Irvine

UTURNS

Date: 12/07/2011

PM

NS/EW Streets:	MacArthur Blvd SB Ramps			MacArthur Blvd SB Ramps			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
4:30 PM										1			1
4:45 PM										0			
5:00 PM										1			1
5:15 PM										3			3
5:30 PM										0			
5:45 PM										1			1
6:00 PM										2			2
6:15 PM										0			
TOTAL VOLUMES :	NL 0	NT 0	NR 0	SL 0	ST 0	SR 0	EL 0	ET 0	ER 0	WL 8	WT 0	WR 0	TOTAL 8
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	
PEAK HR START TIME :	515 PM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	6	0	0	6
PEAK HR FACTOR :		0.000			0.000			0.000			0.500		0.500

CONTROL : Signalized

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

12

City: IRVINE
S Direction: VON KARMAN AVENUE
E-W Direction: MAIN STREET

File Name : h1103014
Site Code : 00003873
Start Date : 3/17/2011
Page No : 1

Groups Printed- Turning Movements

	VON KARMAN AVENUE Southbound			MAIN STREET Westbound			VON KARMAN AVENUE Northbound			MAIN STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	26	100	12	11	78	29	6	21	18	51	112	29	493
07:15 AM	39	131	11	9	120	38	11	31	16	69	107	30	612
07:30 AM	60	190	15	12	145	57	22	58	22	48	105	31	765
07:45 AM	47	229	21	35	173	63	13	59	10	68	126	45	889
Total	172	650	59	67	516	187	52	169	66	236	450	135	2759
08:00 AM	43	271	10	16	193	63	17	73	21	55	143	30	935
08:15 AM	70	276	23	12	214	85	16	50	24	74	156	31	1031
08:30 AM	90	322	40	11	190	59	21	69	18	53	144	31	1048
08:45 AM	72	295	24	26	267	91	28	54	20	65	142	31	1115
Total	275	1164	97	65	864	298	82	246	83	247	585	123	4129
*** BREAK ***													
04:00 PM	30	68	27	18	189	22	41	161	66	59	166	38	885
04:15 PM	35	57	25	22	132	21	28	127	59	46	207	65	824
04:30 PM	33	61	32	25	150	23	49	203	55	36	222	55	944
04:45 PM	47	69	20	17	154	15	41	197	69	32	244	63	968
Total	145	255	104	82	625	81	159	688	249	173	839	221	3621
05:00 PM	38	102	37	29	179	35	92	252	84	43	280	75	1246
05:15 PM	28	71	29	24	173	22	87	286	80	41	354	107	1302
05:30 PM	17	88	17	29	196	23	84	272	76	45	329	84	1260
05:45 PM	23	75	18	35	191	23	59	254	75	66	311	87	1217
Total	106	336	101	117	739	103	322	1064	315	195	1274	353	5025
Grand Total	698	2405	361	331	2744	669	615	2167	713	851	3148	832	15534
Apprch %	20.2	69.4	10.4	8.8	73.3	17.9	17.6	62	20.4	17.6	65.2	17.2	
Total %	4.5	15.5	2.3	2.1	17.7	4.3	4	14	4.6	5.5	20.3	5.4	

Transportation Studies, Inc.
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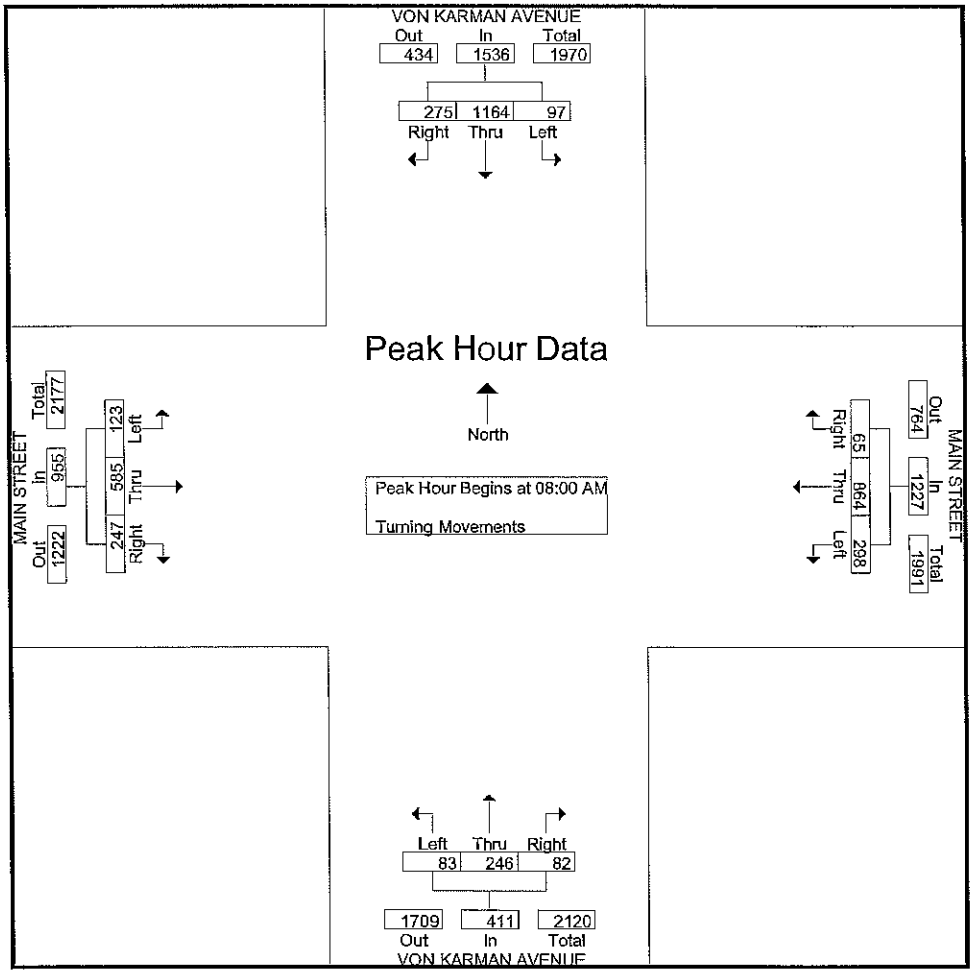
Tustin, CA. 92780

City: IRVINE
S Direction: VON KARMAN AVENUE
E-W Direction: MAIN STREET

File Name : h1103014
Site Code : 00003873
Start Date : 3/17/2011
Page No : 2

	VON KARMAN AVENUE Southbound				MAIN STREET Westbound				VON KARMAN AVENUE Northbound				MAIN STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	43	271	10	324	16	193	63	272	17	**73**	21	**111**	55	143	30	228	935
08:15 AM	70	276	23	369	12	214	85	311	16	50	**24**	90	**74**	**156**	**31**	**261**	1031
08:30 AM	**90**	**322**	**40**	**452**	**11**	190	59	260	21	69	18	108	53	144	31	228	1048
08:45 AM	72	295	24	391	**26**	**267**	**91**	**384**	**28**	54	20	102	65	142	31	238	**1115**
Total Volume	275	1164	97	1536	65	864	298	1227	82	246	83	411	247	585	123	955	4129
% App. Total	17.9	75.8	6.3		5.3	70.4	24.3		20	59.9	20.2		25.9	61.3	12.9		
PHF	.764	.904	.606	.850	.625	.809	.819	.799	.732	.842	.865	.926	.834	.938	.992	.915	.926



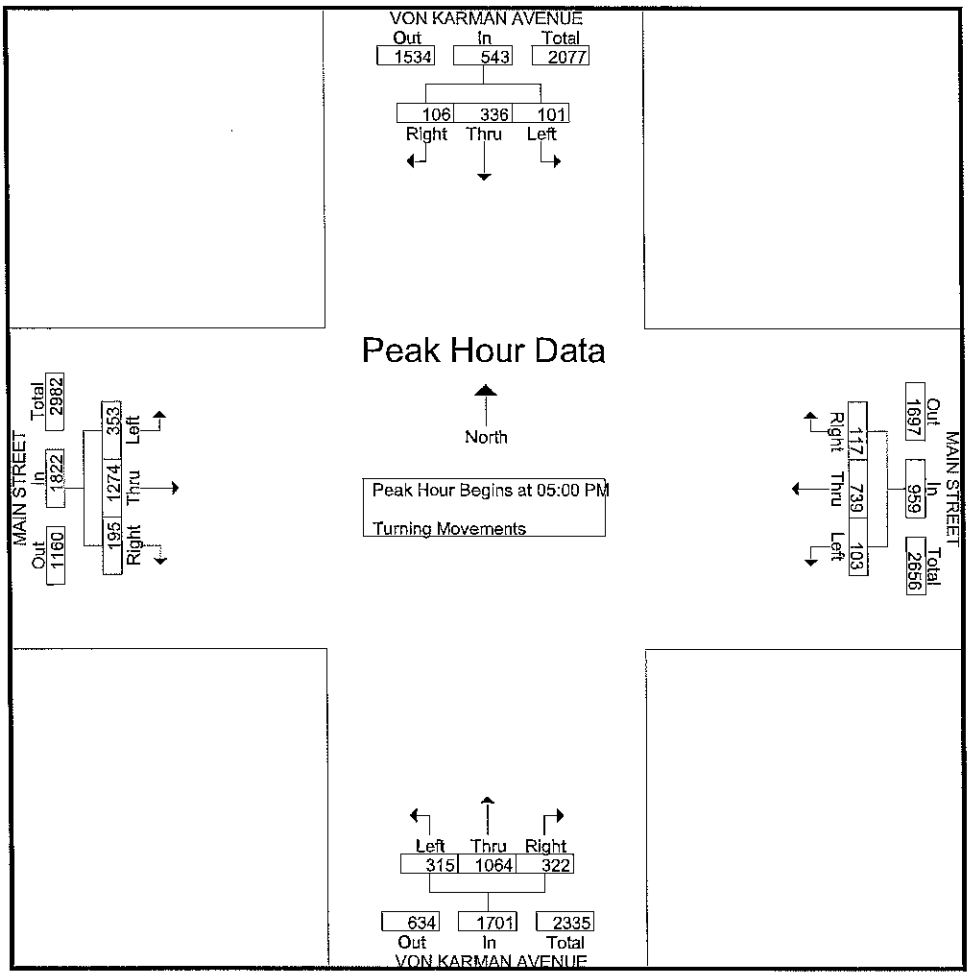
Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

12

City: IRVINE
N-S Direction: VON KARMAN AVENUE
E-W Direction: MAIN STREET

File Name : h1103014
Site Code : 00003873
Start Date : 3/17/2011
Page No : 3

	VON KARMAN AVENUE Southbound				MAIN STREET Westbound				VON KARMAN AVENUE Northbound				MAIN STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**38**	**102**	**37**	**177**	29	179	**35**	243	**92**	252	**84**	428	43	280	75	398	1246
05:15 PM	28	71	29	128	24	173	22	219	87	**286**	80	**453**	41	**354**	**107**	**502**	**1302**
05:30 PM	17	88	17	122	29	**196**	23	248	84	272	76	432	45	329	84	458	1260
05:45 PM	23	75	18	116	**35**	191	23	**249**	59	254	75	388	**66**	311	87	464	1217
Total Volume	106	336	101	543	117	739	103	959	322	1064	315	1701	195	1274	353	1822	5025
% App. Total	19.5	61.9	18.6		12.2	77.1	10.7		18.9	62.6	18.5		10.7	69.9	19.4		
PHF	.697	.824	.682	.767	.836	.943	.736	.963	.875	.930	.938	.939	.739	.900	.825	.907	.965



TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

13

City: IRVINE
N-S Direction: VON KARMAN AVENUE
E-W Direction: MICHELSON DRIVE

File Name : H1105006
Site Code : 00005059
Start Date : 5/4/2011
Page No : 1

Groups Printed- Turning Movements

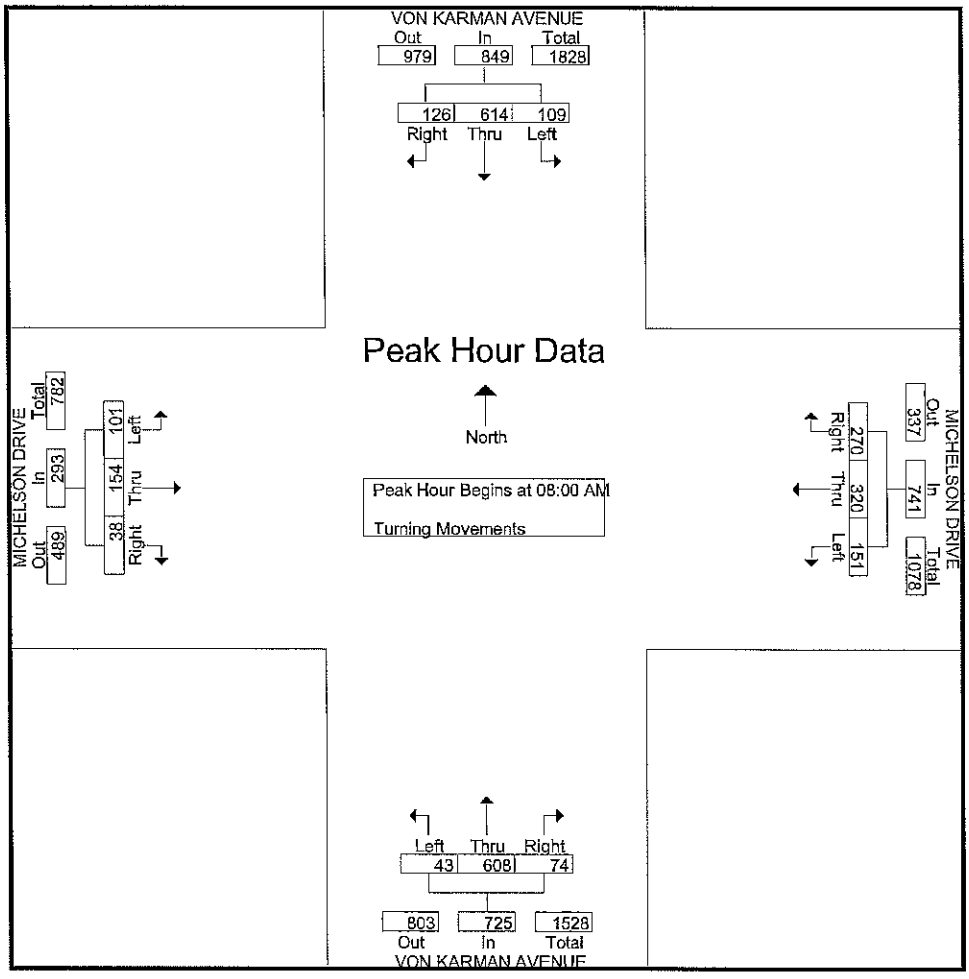
	VON KARMAN AVENUE Southbound			MICHELSON DRIVE Westbound			VON KARMAN AVENUE Northbound			MICHELSON DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	17	39	15	49	48	16	8	31	5	8	29	12	277
07:15 AM	15	67	13	41	41	22	10	42	2	10	23	10	296
07:30 AM	23	84	22	40	49	24	7	83	5	10	30	12	389
07:45 AM	28	100	31	59	54	27	13	101	4	11	35	10	473
Total	83	290	81	189	192	89	38	257	16	39	117	44	1435
08:00 AM	31	162	34	68	86	31	17	164	2	7	41	28	671
08:15 AM	31	166	25	65	85	39	25	160	13	12	42	16	679
08:30 AM	34	148	21	79	75	38	14	166	18	9	36	29	667
08:45 AM	30	138	29	58	74	43	18	118	10	10	35	28	591
Total	126	614	109	270	320	151	74	608	43	38	154	101	2608
*** BREAK ***													
04:30 PM	17	87	29	51	58	18	25	138	14	12	64	32	545
04:45 PM	23	118	34	53	80	17	31	150	13	15	75	26	635
Total	40	205	63	104	138	35	56	288	27	27	139	58	1180
05:00 PM	32	121	41	51	80	24	35	182	13	17	99	48	743
05:15 PM	25	214	49	91	99	33	44	245	10	18	107	57	992
05:30 PM	32	171	46	72	92	15	26	189	9	14	100	48	814
05:45 PM	27	161	56	71	93	22	19	206	8	18	86	66	833
Total	116	667	192	285	364	94	124	822	40	67	392	219	3382
06:00 PM	35	155	55	75	93	18	22	152	12	12	85	34	748
06:15 PM	25	109	48	55	76	20	39	163	8	14	88	50	695
Grand Total	425	2040	548	978	1183	407	353	2290	146	197	975	506	10048
Apprch %	14.1	67.7	18.2	38.1	46.1	15.8	12.7	82.1	5.2	11.7	58.1	30.2	
Total %	4.2	20.3	5.5	9.7	11.8	4.1	3.5	22.8	1.5	2	9.7	5	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N Direction: VON KARMAN AVENUE
W Direction: MICHELSON DRIVE

File Name : H1105006
Site Code : 00005059
Start Date : 5/4/2011
Page No : 2

	VON KARMAN AVENUE Southbound				MICHELSON DRIVE Westbound				VON KARMAN AVENUE Northbound				MICHELSON DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	31	162	34	227	68	86	31	185	17	164	2	183	7	41	28	76	671
08:15 AM	31	166	25	222	65	85	39	189	25	160	13	198	12	42	16	70	679
08:30 AM	34	148	21	203	79	75	38	192	14	166	18	198	9	36	29	74	667
08:45 AM	30	138	29	197	58	74	43	175	18	118	10	146	10	35	28	73	591
Total Volume	126	614	109	849	270	320	151	741	74	608	43	725	38	154	101	293	2608
% App. Total	14.8	72.3	12.8		36.4	43.2	20.4		10.2	83.9	5.9		13	52.6	34.5		
PHF	.926	.925	.801	.935	.854	.930	.878	.965	.740	.916	.597	.915	.792	.917	.871	.964	.960

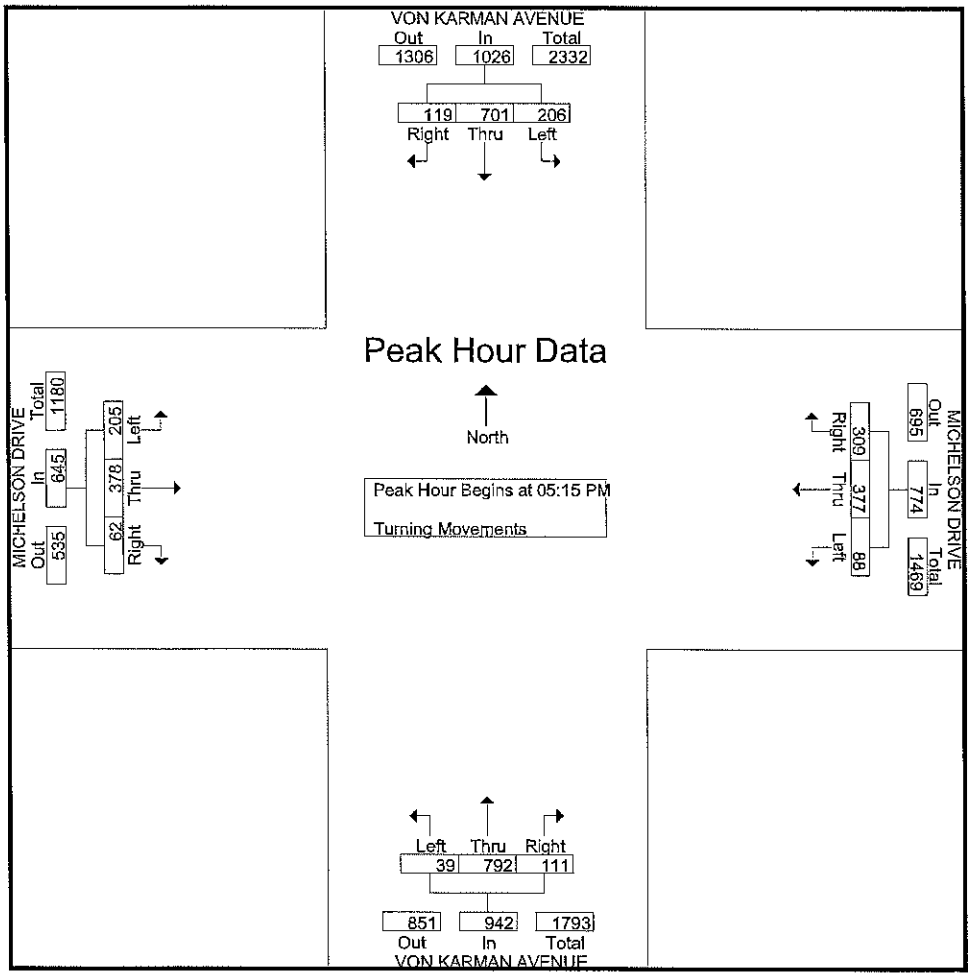


TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N/S Direction: VON KARMAN AVENUE
E/W Direction: MICHELSON DRIVE

File Name : H1105006
Site Code : 00005059
Start Date : 5/4/2011
Page No : 3

	VON KARMAN AVENUE Southbound				MICHELSON DRIVE Westbound				VON KARMAN AVENUE Northbound				MICHELSON DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	25	**214**	49	**288**	**91**	**99**	**33**	**223**	**44**	**245**	10	**299**	**18**	**107**	57	**182**	**992**
05:30 PM	32	171	46	249	72	92	15	179	26	189	9	224	14	100	48	162	814
05:45 PM	27	161	**56**	244	71	93	22	186	19	206	8	233	18	86	**66**	170	833
06:00 PM	**35**	155	55	245	75	93	18	186	22	152	**12**	186	12	85	34	131	748
Total Volume	119	701	206	1026	309	377	88	774	**111**	792	39	942	62	378	205	645	3387
% App. Total	11.6	68.3	20.1		39.9	48.7	11.4		11.8	84.1	4.1		9.6	58.6	31.8		
PHF	.850	.819	.920	.891	.849	.952	.667	.868	.631	.808	.813	.788	.861	.883	.777	.886	.854



TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

14

City: IRVINE
Direction: VON KARMAN AVENUE
W Direction: DUPONT DRIVE

File Name : H1105007
Site Code : 00005059
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

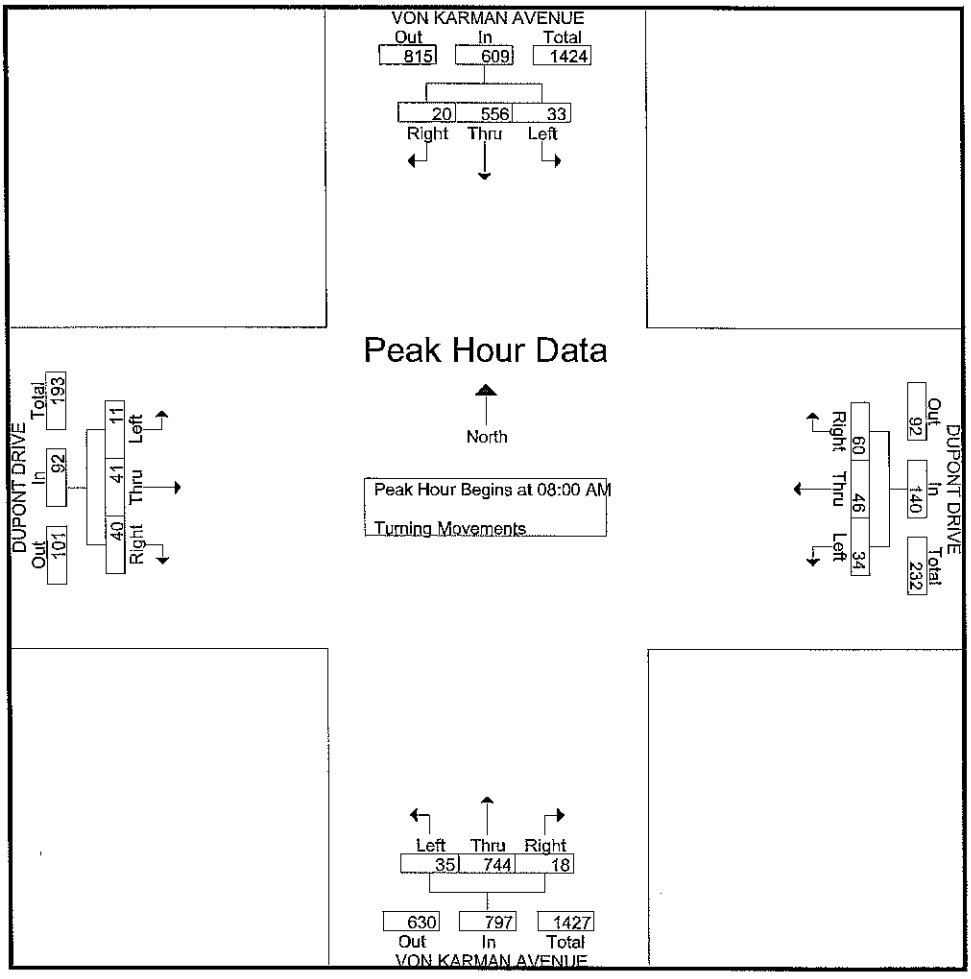
	VON KARMAN AVENUE Southbound			DUPONT DRIVE Westbound			VON KARMAN AVENUE Northbound			DUPONT DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	6	54	1	8	5	7	0	51	6	18	7	2	165
07:15 AM	3	44	3	7	6	3	2	47	2	9	10	2	138
07:30 AM	5	81	2	9	8	3	1	78	3	8	5	5	208
07:45 AM	4	102	11	10	11	5	3	167	2	15	11	2	343
Total	18	281	17	34	30	18	6	343	13	50	33	11	854
08:00 AM	4	110	13	13	11	12	5	195	7	9	7	4	390
08:15 AM	2	137	8	15	13	10	5	196	12	11	10	3	422
08:30 AM	8	158	7	19	15	3	5	195	7	10	17	1	445
08:45 AM	6	151	5	13	7	9	3	158	9	10	7	3	381
Total	20	556	33	60	46	34	18	744	35	40	41	11	1638
*** BREAK ***													
04:30 PM	3	118	8	16	12	2	15	110	8	33	15	3	343
04:45 PM	7	147	5	19	21	7	12	144	8	25	25	7	427
Total	10	265	13	35	33	9	27	254	16	58	40	10	770
05:00 PM	6	181	13	21	17	7	10	193	8	31	19	4	510
05:15 PM	8	284	14	17	11	8	21	235	12	26	15	4	655
05:30 PM	6	226	15	20	12	5	10	178	7	25	15	9	528
05:45 PM	8	169	22	16	12	1	7	186	3	21	18	6	469
Total	28	860	64	74	52	21	48	792	30	103	67	23	2162
06:00 PM	5	198	10	11	14	9	11	145	12	34	19	2	470
06:15 PM	2	151	19	18	12	2	6	151	7	23	16	3	410
Grand Total	83	2311	156	232	187	93	116	2429	113	308	216	60	6304
Apprch %	3.3	90.6	6.1	45.3	36.5	18.2	4.4	91.4	4.3	52.7	37	10.3	
Total %	1.3	36.7	2.5	3.7	3	1.5	1.8	38.5	1.8	4.9	3.4	1	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N Direction: VON KARMAN AVENUE
W Direction: DUPONT DRIVE

File Name : H1105007
Site Code : 00005059
Start Date : 5/3/2011
Page No : 2

	VON KARMAN AVENUE Southbound				DUPONT DRIVE Westbound				VON KARMAN AVENUE Northbound				DUPONT DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	4	110	**13**	127	13	11	**12**	36	**5**	195	7	207	9	7	**4**	20	390
08:15 AM	2	137	8	147	15	13	10	**38**	5	**196**	**12**	**213**	**11**	10	3	24	422
08:30 AM	**8**	**158**	7	**173**	**19**	**15**	3	37	5	195	7	207	10	**17**	1	**28**	**445**
08:45 AM	6	151	5	162	13	7	9	29	3	158	9	170	10	7	3	20	381
Total Volume	20	556	33	609	60	46	34	140	18	744	35	797	40	41	11	92	1638
% App. Total	3.3	91.3	5.4		42.9	32.9	24.3		2.3	93.4	4.4		43.5	44.6	12		
PHF	.625	.880	.635	.880	.789	.767	.708	.921	.900	.949	.729	.935	.909	.603	.688	.821	.920

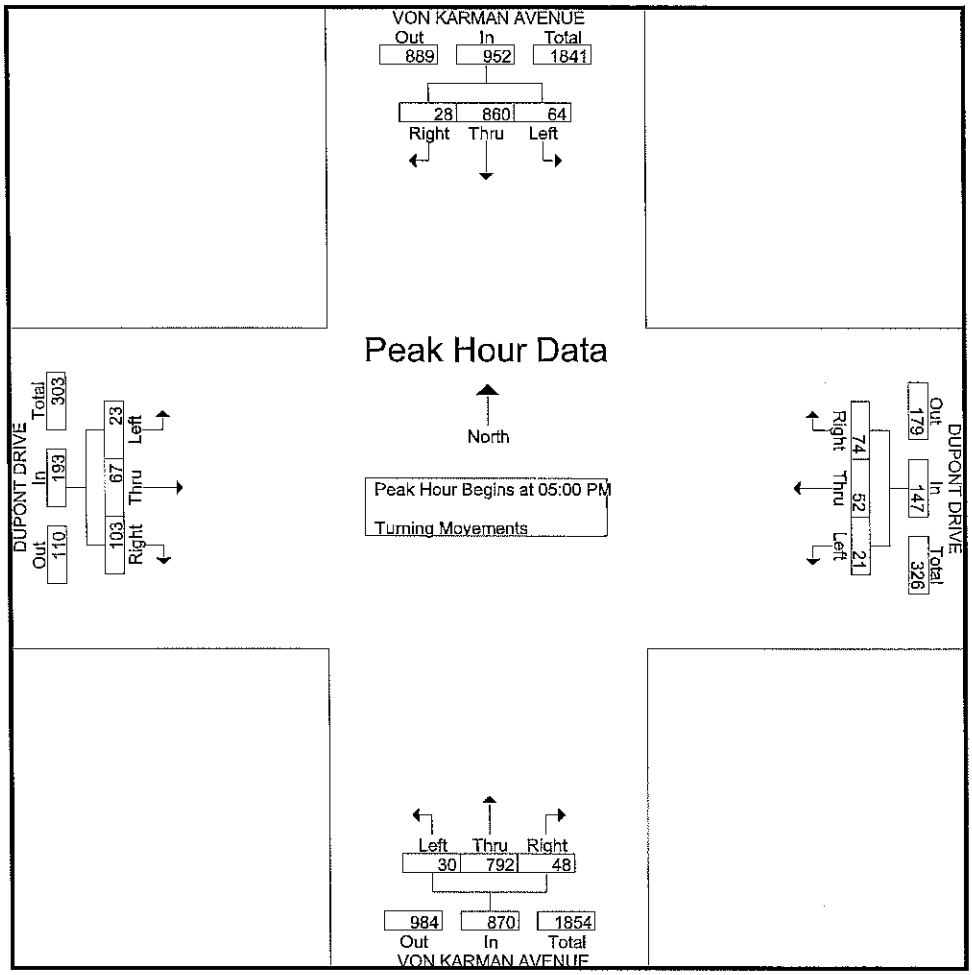


TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N-S Direction: VON KARMAN AVENUE
E-W Direction: DUPONT DRIVE

File Name : H1105007
Site Code : 00005059
Start Date : 5/3/2011
Page No : 3

	VON KARMAN AVENUE Southbound				DUPONT DRIVE Westbound				VON KARMAN AVENUE Northbound				DUPONT DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	6	181	13	200	**21**	**17**	7	**45**	10	193	8	211	**31**	**19**	4	**54**	510
05:15 PM	**8**	**284**	14	**306**	17	11	**8**	36	**21**	**235**	**12**	**268**	26	15	4	45	**655**
05:30 PM	6	226	15	247	20	12	5	37	10	178	7	195	25	15	**9**	49	528
05:45 PM	8	169	**22**	199	16	12	1	29	7	186	3	196	21	18	6	45	469
Total Volume	28	860	64	952	74	52	21	147	48	792	30	870	103	67	23	193	2162
% App. Total	2.9	90.3	6.7		50.3	35.4	14.3		5.5	91	3.4		53.4	34.7	11.9		
PHF	.875	.757	.727	.778	.881	.765	.656	.817	.571	.843	.625	.812	.831	.882	.639	.894	.825



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: VON KARMAN AVENUE
E-W Direction: CAMPUS DRIVE

File Name : H1104026
Site Code : 00005059
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

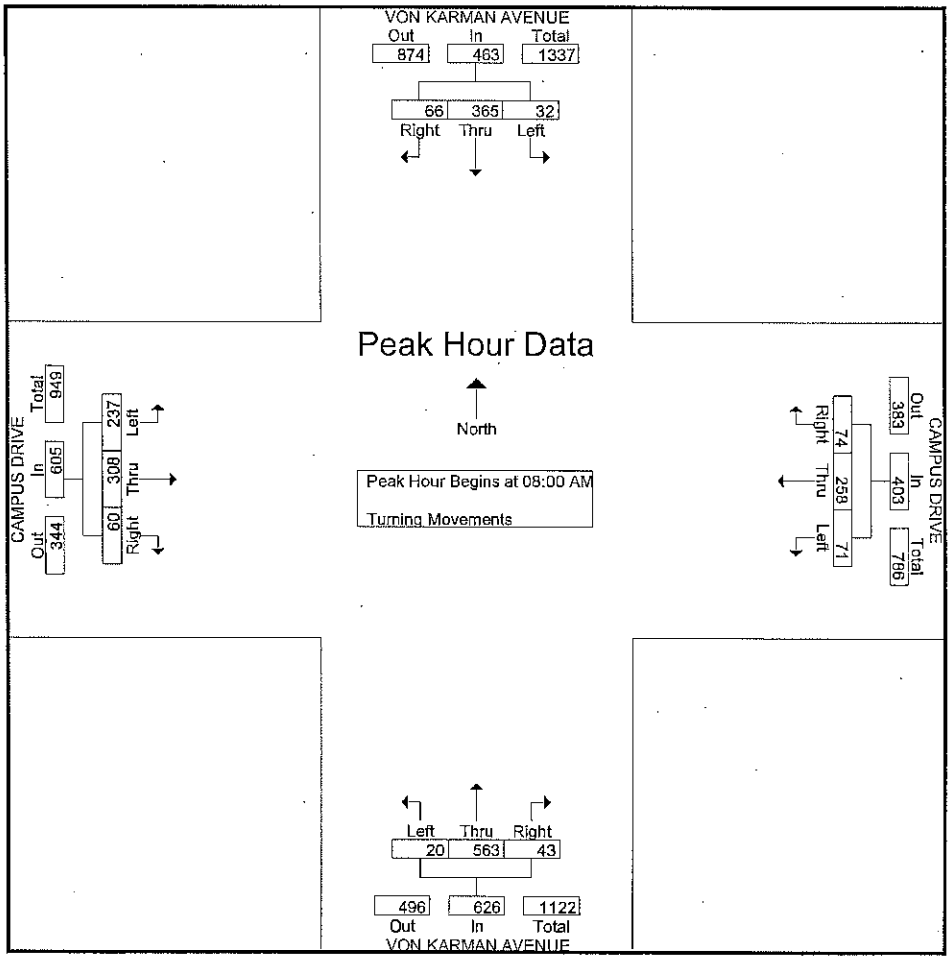
	VON KARMAN AVENUE Southbound			CAMPUS DRIVE Westbound			VON KARMAN AVENUE Northbound			CAMPUS DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	5	36	4	9	25	3	6	42	1	4	33	17	185
07:15 AM	10	40	6	11	54	5	3	46	1	4	28	18	226
07:30 AM	14	49	8	16	43	8	5	71	2	5	38	34	293
07:45 AM	12	61	8	15	51	10	7	101	1	13	65	46	390
Total	41	186	26	51	173	26	21	260	5	26	164	115	1094
08:00 AM	13	91	6	15	57	13	9	154	4	22	76	71	531
08:15 AM	21	99	11	15	68	18	11	137	3	15	78	53	529
08:30 AM	13	82	9	22	60	25	11	137	8	13	78	68	526
08:45 AM	19	93	6	22	73	15	12	135	5	10	76	45	511
Total	66	365	32	74	258	71	43	563	20	60	308	237	2097
*** BREAK ***													
04:30 PM	45	90	16	10	83	3	13	66	7	11	58	23	425
04:45 PM	38	102	13	15	97	6	20	96	12	13	104	24	540
Total	83	192	29	25	180	9	33	162	19	24	162	47	965
05:00 PM	46	124	24	18	95	4	20	93	14	8	95	38	579
05:15 PM	76	188	35	14	128	8	30	141	29	11	125	44	829
05:30 PM	63	179	17	11	114	9	24	87	11	8	107	36	666
05:45 PM	66	156	25	15	96	2	20	134	9	13	102	39	677
Total	251	647	101	58	433	23	94	455	63	40	429	157	2751
06:00 PM	48	116	14	8	93	8	26	78	4	8	94	39	536
06:15 PM	37	89	22	9	64	0	18	90	9	9	73	36	456
Grand Total	526	1595	224	225	1201	137	235	1608	120	167	1230	631	7899
Apprch %	22.4	68	9.6	14.4	76.8	8.8	12	81.9	6.1	8.2	60.7	31.1	
Total %	6.7	20.2	2.8	2.8	15.2	1.7	3	20.4	1.5	2.1	15.6	8	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: VON KARMAN AVENUE
E-W Direction: CAMPUS DRIVE

File Name : H1104026
Site Code : 00005059
Start Date : 5/3/2011
Page No : 2

	VON KARMAN AVENUE Southbound				CAMPUS DRIVE Westbound				VON KARMAN AVENUE Northbound				CAMPUS DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	13	91	6	110	15	57	13	85	9	**154**	4	**167**	22	76	**71**	**169**	**531**
08:15 AM	**21**	**99**	**11**	**131**	15	68	18	101	11	137	3	151	15	**78**	53	146	529
08:30 AM	13	82	9	104	**22**	60	**25**	107	11	137	**8**	156	13	78	68	159	526
08:45 AM	19	93	6	118	22	**73**	15	**110**	**12**	135	5	152	10	76	45	131	511
Total Volume	66	365	32	463	74	258	71	403	43	563	20	626	60	308	237	605	2097
% App. Total	14.3	78.8	6.9		18.4	64	17.6		6.9	89.9	3.2		9.9	50.9	39.2		
PHF	.786	.922	.727	.884	.841	.884	.710	.916	.896	.914	.625	.937	.682	.987	.835	.895	.987

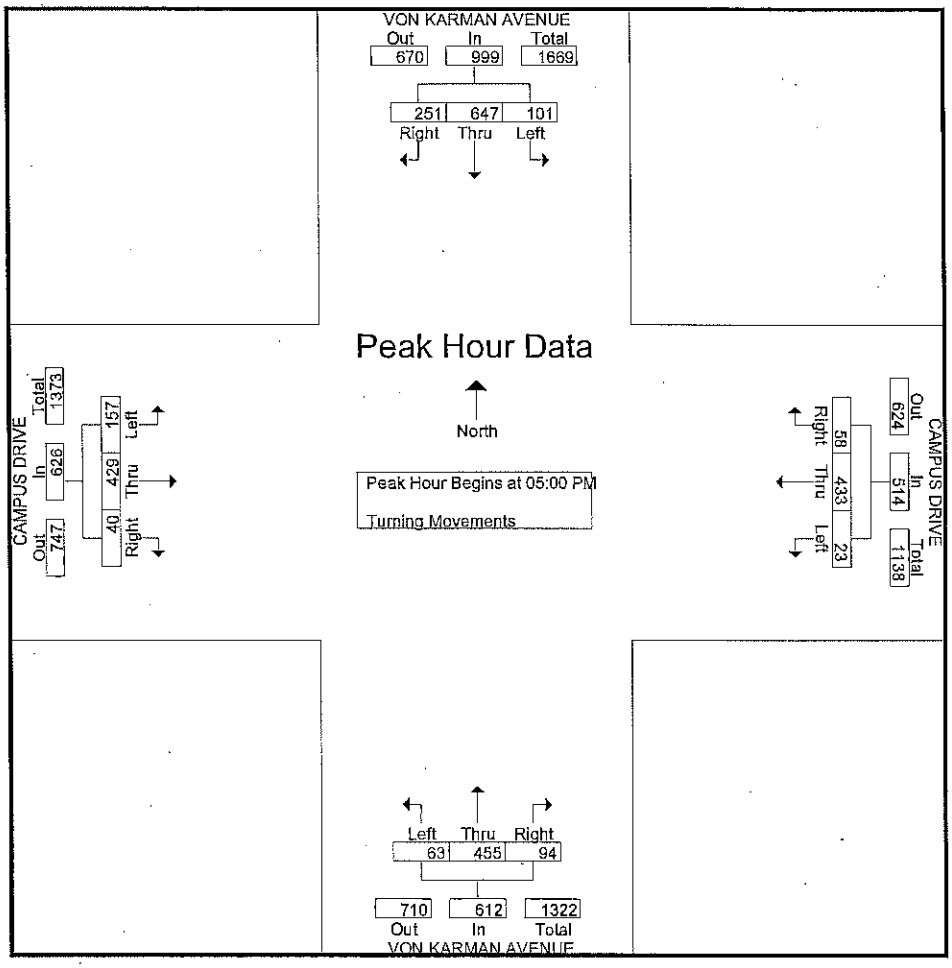


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: VON KARMAN AVENUE
E-W Direction: CAMPUS DRIVE

File Name : H1104026
Site Code : 00005059
Start Date : 5/3/2011
Page No : 3

	VON KARMAN AVENUE Southbound				CAMPUS DRIVE Westbound				VON KARMAN AVENUE Northbound				CAMPUS DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	46	124	24	194	**18**	95	4	**117**	20	93	14	127	8	95	38	141	579
05:15 PM	**76**	**188**	**35**	**299**	14	**128**	8	**150**	**30**	**141**	**29**	**200**	11	**125**	**44**	**180**	**829**
05:30 PM	63	179	17	259	11	114	9	134	24	87	11	122	8	107	36	151	666
05:45 PM	66	156	25	247	15	96	2	113	20	134	9	163	**13**	102	39	154	677
Total Volume	251	647	101	999	58	433	23	514	94	455	63	612	40	429	157	626	2751
% App. Total	25.1	64.8	10.1		11.3	84.2	4.5		15.4	74.3	10.3		6.4	68.5	25.1		
PHF	.826	.860	.721	.835	.806	.846	.639	.857	.783	.807	.543	.765	.769	.858	.892	.869	.830



ITM Peak Hour Summary

Prepared by:

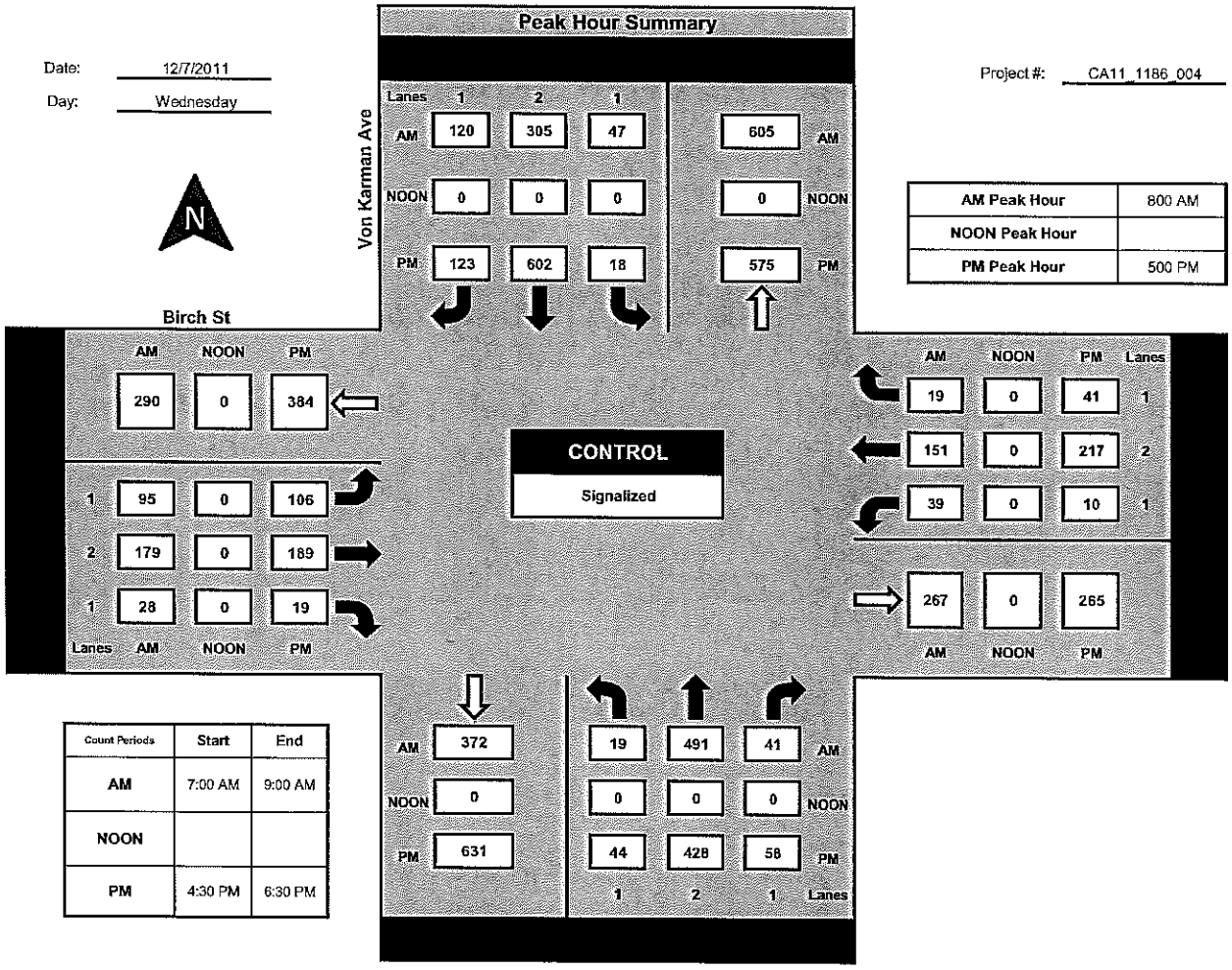
National Data & Surveying Services

Von Karman Ave and Birch St , City of Irvine

Date: 12/7/2011

Day: Wednesday

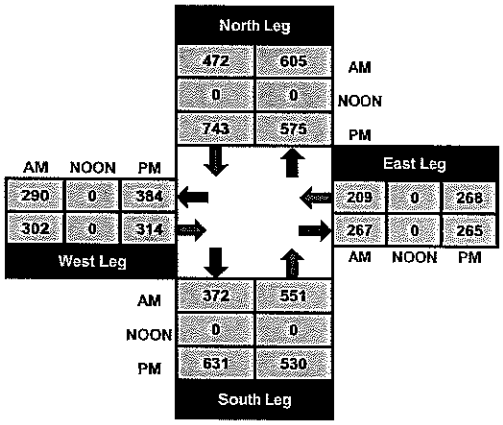
Project #: CA11_1186_004



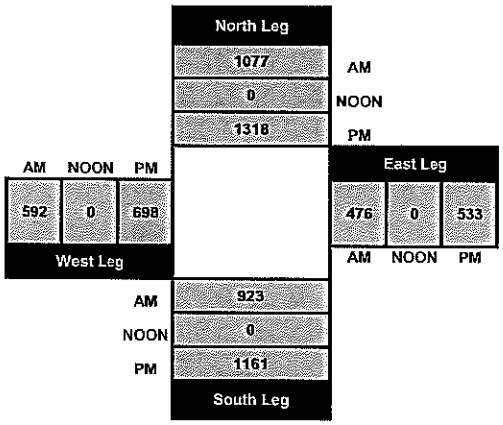
AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_004

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Von Karman Ave			Von Karman Ave			Birch St			Birch St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
7:00 AM	4	39	2	5	30	10	10	14	7	5	12	4	142
7:15 AM	3	53	5	4	37	14	5	28	7	4	16	4	180
7:30 AM	5	71	5	10	38	17	12	33	4	5	31	1	232
7:45 AM	6	132	6	13	68	23	16	47	13	4	31	5	364
8:00 AM	3	116	11	13	75	26	21	30	8	11	34	5	353
8:15 AM	7	146	11	14	90	23	22	34	3	10	42	5	407
8:30 AM	7	115	12	12	75	38	26	59	10	9	38	5	406
8:45 AM	2	114	7	8	65	33	26	56	7	9	37	4	368
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	37	786	59	79	478	184	138	301	59	57	241	33	2452
APPROACH %'s :	4.20%	89.12%	6.69%	10.66%	64.51%	24.83%	27.71%	60.44%	11.85%	17.22%	72.81%	9.97%	
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	19	491	41	47	305	120	95	179	28	39	151	19	1534
PEAK HR FACTOR :		0.840			0.929			0.795			0.917		0.942

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_004

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Von Karman Ave			Von Karman Ave			Birch St			Birch St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 1	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
4:30 PM	11	73	10	9	82	25	20	30	6	3	43	15	327
4:45 PM	11	72	7	6	107	22	22	35	8	5	36	14	345
5:00 PM	13	115	15	2	131	33	38	52	7	1	70	12	489
5:15 PM	10	112	13	4	155	37	27	49	6	4	40	6	463
5:30 PM	13	114	14	4	180	28	11	44	0	3	60	15	486
5:45 PM	8	87	16	8	136	25	30	44	6	2	47	8	417
6:00 PM	6	77	9	7	113	15	25	22	5	1	24	10	314
6:15 PM	6	67	5	3	59	21	16	26	6	2	32	7	250
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	78	717	89	43	963	206	189	302	44	21	352	87	3091
APPROACH %'s :	8.82%	81.11%	10.07%	3.55%	79.46%	17.00%	35.33%	56.45%	8.22%	4.57%	76.52%	18.91%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	44	428	58	18	602	123	106	189	19	10	217	41	1855
PEAK HR FACTOR :		0.927			0.876			0.809			0.807		0.948

CONTROL : Signalized

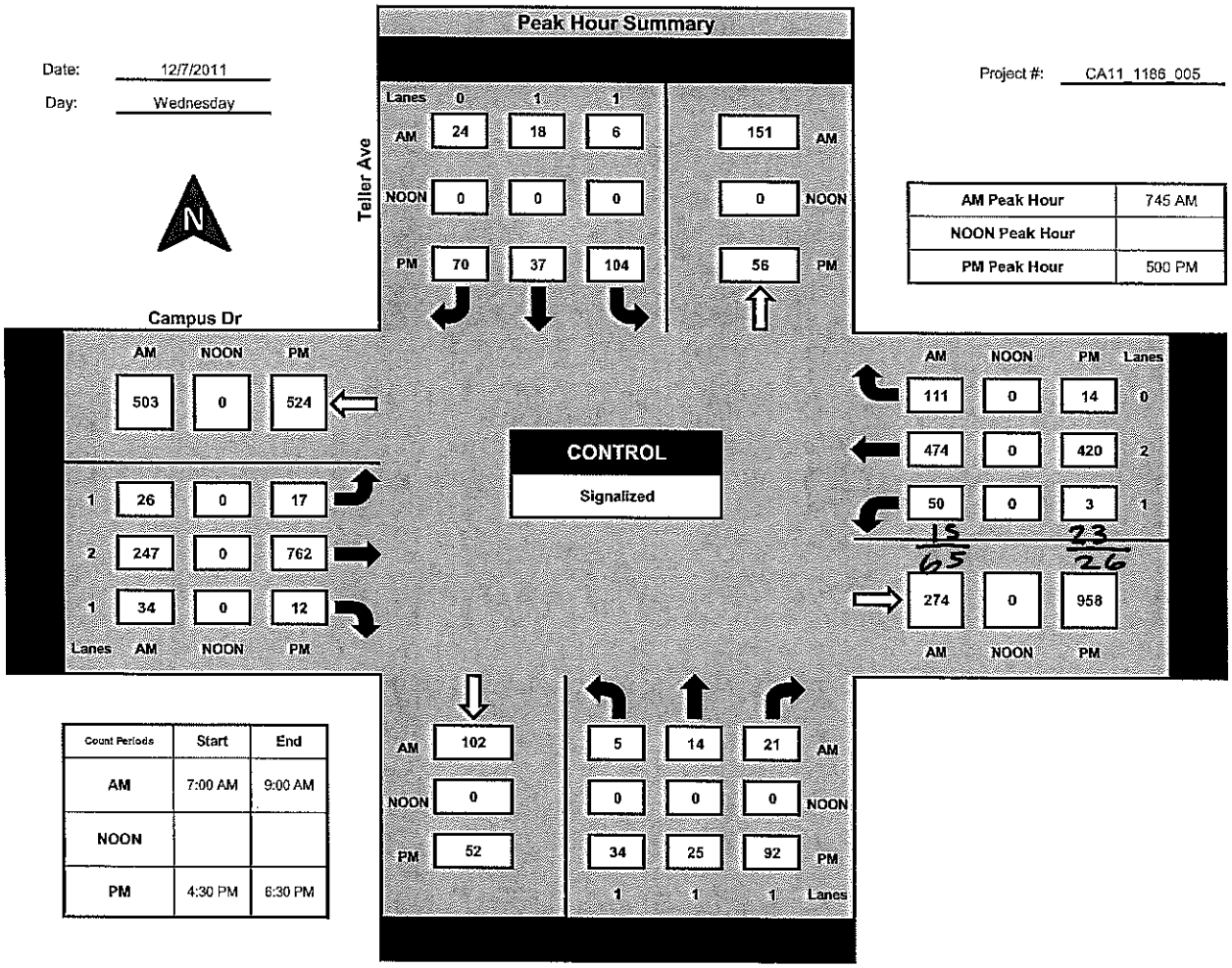
ITM Peak Hour Summary

Prepared by:

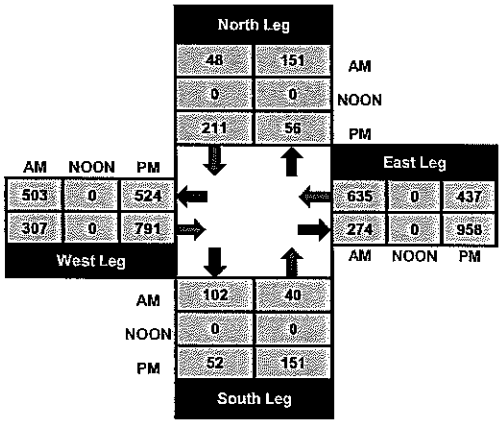
NDS

National Data & Surveying Services

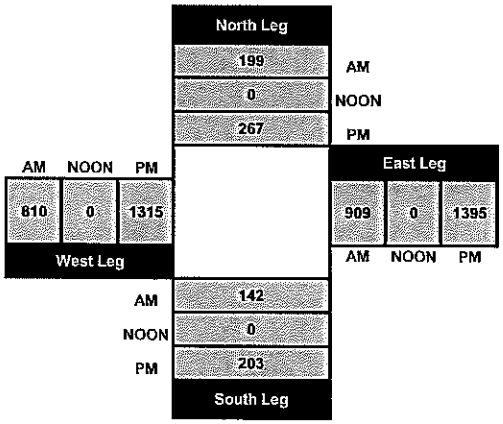
Teller Ave and Campus Dr , City of Irvine



Total Ins & Outs



Total Volume Per Leg



ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

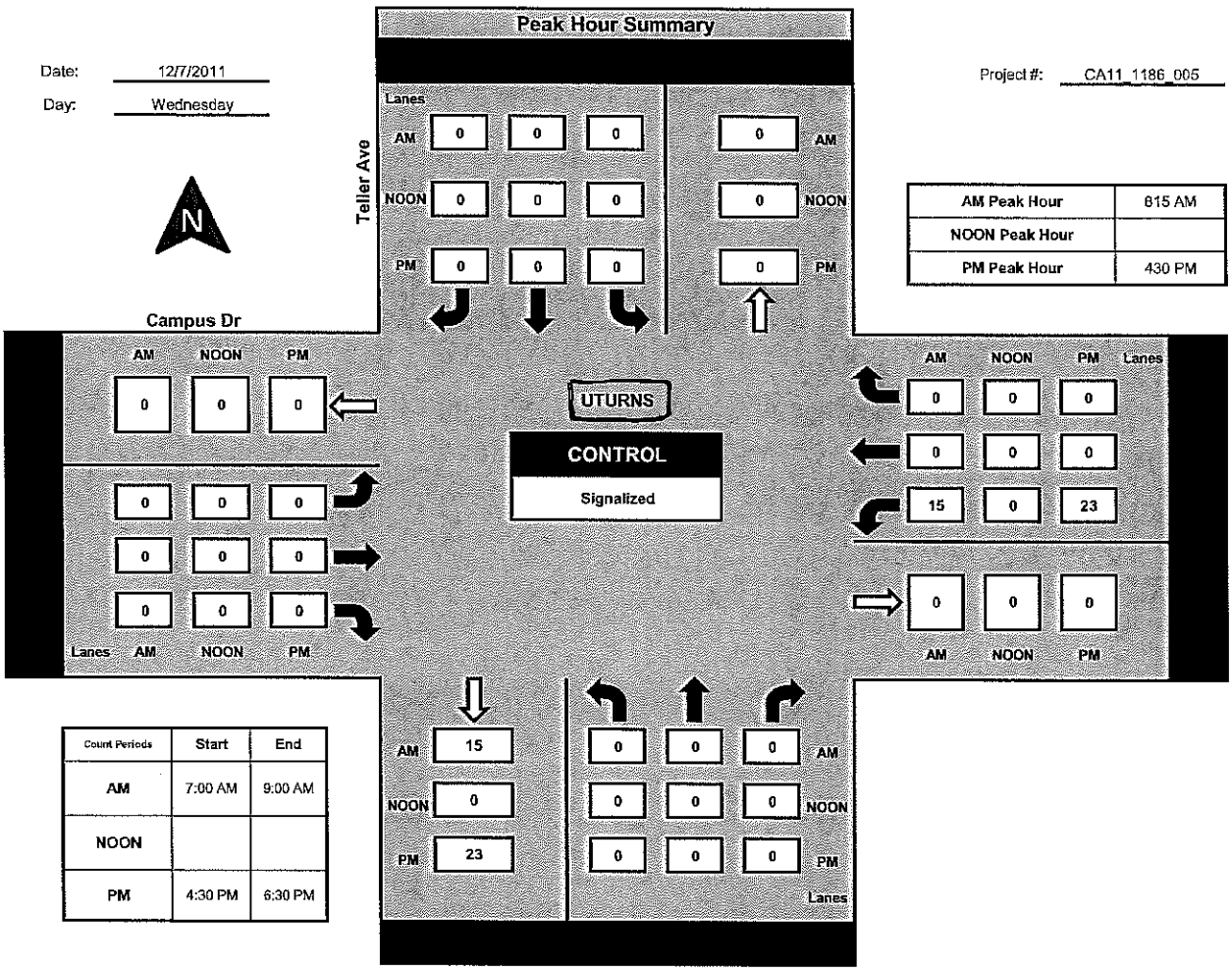
Teller Ave and Campus Dr , City of Irvine

Peak Hour Summary

Date: 12/7/2011

Day: Wednesday

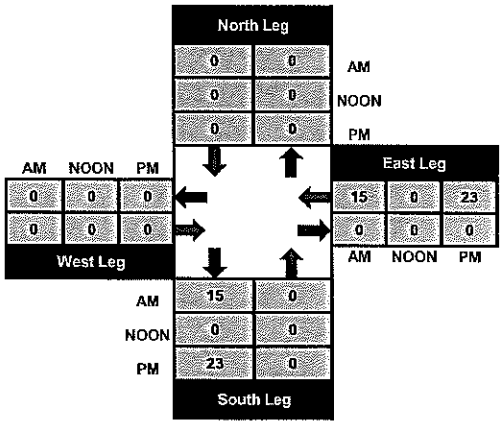
Project #: CA11_1186_005



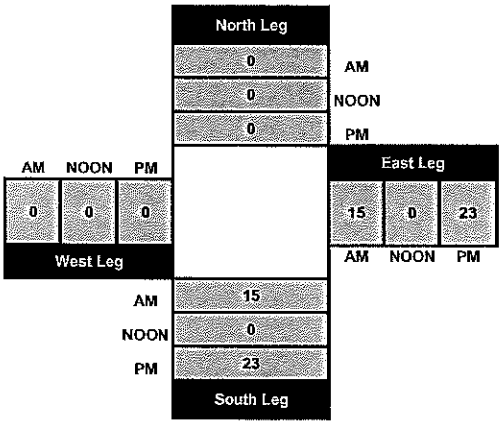
AM Peak Hour	615 AM
NOON Peak Hour	
PM Peak Hour	430 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_005 **Day:** WEDNESDAY

City: City of Irvine **Date:** 12/07/2011

AM

NS/EW Streets:	Teller Ave			Teller Ave			Campus Dr			Campus Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
7:00 AM	0	1	2	1	1	1	6	19	0	1	52	4	88
7:15 AM	1	1	2	2	1	2	3	27	6	4	69	8	126
7:30 AM	1	2	3	2	4	2	6	50	2	6	87	21	186
7:45 AM	0	2	6	1	2	6	9	61	14	7	111	26	245
8:00 AM	1	3	7	4	2	5	4	66	5	14	113	30	254
8:15 AM	3	4	3	0	9	6	4	57	6	11	131	29	263
8:30 AM	1	5	5	1	5	7	9	63	9	18	119	26	268
8:45 AM	1	3	6	2	6	5	12	68	3	13	102	14	235
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	8	21	34	13	30	34	53	411	45	74	784	158	1665
APPROACH %'s :	12.70%	33.33%	53.97%	16.88%	38.96%	44.16%	10.41%	80.75%	8.84%	7.28%	77.17%	15.55%	
PEAK HR START TIME :	745 AM												TOTAL
PEAK HR VOL :	5	14	21	6	18	24	26	247	34	50	474	111	1030
PEAK HR FACTOR :		0.909			0.800			0.914		15 / 65	0.928		0.961

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_005

City: City of Irvine

UTURNS

AM

Day: WEDNESDAY

Date: 12/07/2011

NS/EW Streets:	Teller Ave			Teller Ave			Campus Dr			Campus Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
7:00 AM													
7:15 AM													
7:30 AM										3			3
7:45 AM										2			2
8:00 AM													
8:15 AM										4			4
8:30 AM										1			1
8:45 AM										10			10
TOTAL VOLUMES :	NL 0	NT 0	NR 0	SL 0	ST 0	SR 0	EL 0	ET 0	ER 0	WL 20	WT 0	WR 0	TOTAL 20
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	
PEAK HR START TIME :	815 AM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	15	0	0	15
PEAK HR FACTOR :		0.000			0.000			0.000			0.375		0.375

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_005

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Teller Ave			Teller Ave			Campus Dr			Campus Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
4:30 PM	11	5	30	8	2	21	4	103	6	3	83	5	281
4:45 PM	7	2	20	18	0	27	3	122	2	4	85	7	297
5:00 PM	22	10	45	30	9	21	1	189	1	2	95	0	425
5:15 PM	6	7	18	31	12	15	4	201	2	0	110	3	409
5:30 PM	4	2	12	23	6	23	9	208	5	0	92	4	388
5:45 PM	2	6	17	20	10	11	3	164	4	1	123	7	368
6:00 PM	3	9	11	17	6	18	3	155	1	0	90	11	324
6:15 PM	3	13	8	8	6	10	5	125	4	0	71	9	262
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	58	54	161	155	51	146	32	1267	25	10	749	46	2754
APPROACH %'s :	21.25%	19.78%	58.97%	44.03%	14.49%	41.48%	2.42%	95.69%	1.89%	1.24%	93.04%	5.71%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	34	25	92	104	37	70	17	762	12	3	420	14	1590
PEAK HR FACTOR :		0.490			0.879			0.891		23 / 26	0.834		0.935

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_005

Day: WEDNESDAY

UTURNS

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Teller Ave			Teller Ave			Campus Dr			Campus Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
4:30 PM										8			8
4:45 PM										7			7
5:00 PM										4			4
5:15 PM										4			4
5:30 PM										3			3
5:45 PM										9			9
6:00 PM										5			5
6:15 PM										4			4
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	44	0	0	44
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.00%	0.00%	0.00%	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	23	0	0	23
PEAK HR FACTOR :		0.000			0.000			0.000			0.719		0.719

CONTROL : Signalized

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: TELLER AVENUE
E-W Direction: BIRCH STREET

File Name : h1003001
Site Code : 00005056
Start Date : 3/4/2010
Page No : 1

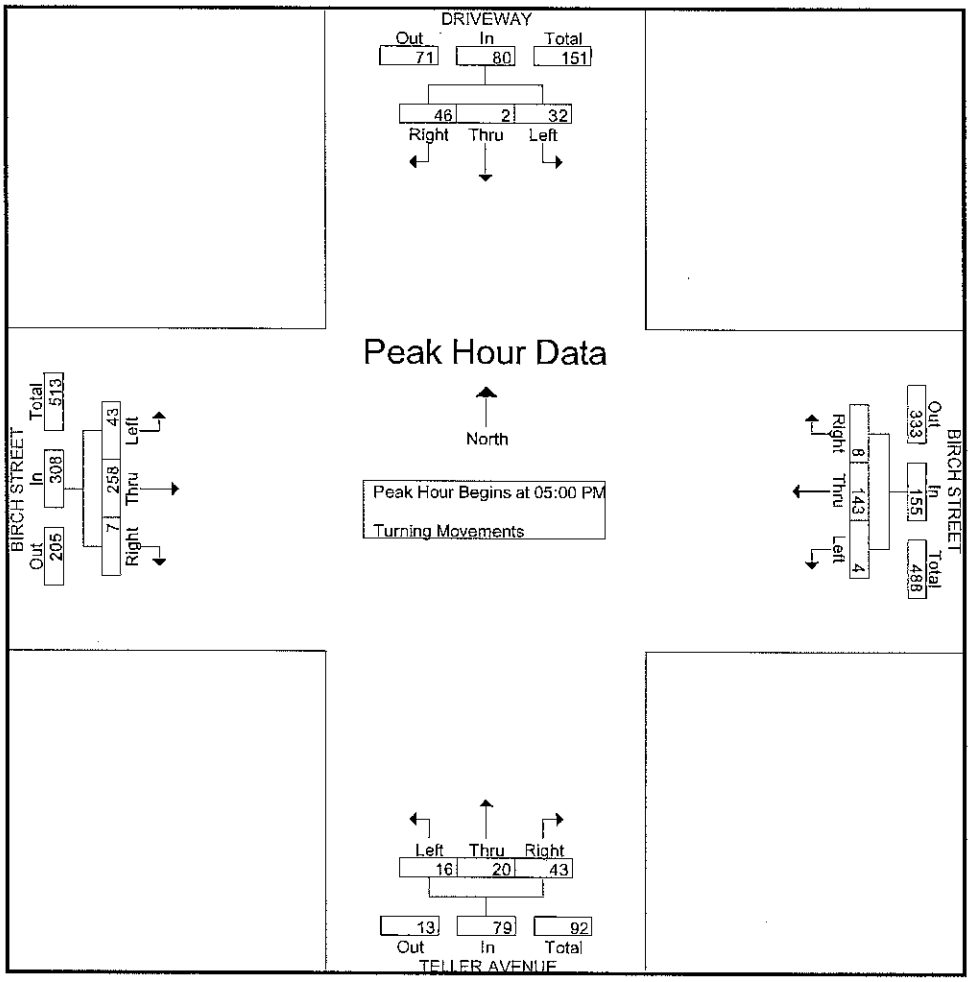
Groups Printed- Turning Movements

	DRIVEWAY Southbound			BIRCH STREET Westbound			TELLER AVENUE Northbound			BIRCH STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
07:00 AM	2	0	1	1	34	3	1	0	0	0	7	4	53
07:15 AM	0	1	0	3	45	8	0	0	0	2	9	4	72
07:30 AM	1	0	4	1	61	5	1	0	0	1	25	2	101
07:45 AM	4	2	4	8	43	11	2	0	1	4	28	10	117
Total	7	3	9	13	183	27	4	0	1	7	69	20	343
08:00 AM	3	3	5	8	80	8	2	1	0	2	20	7	139
08:15 AM	3	1	4	3	58	11	0	0	0	3	26	5	114
08:30 AM	8	3	8	7	68	15	1	0	1	7	27	7	152
08:45 AM	0	2	3	4	52	14	0	0	0	2	26	5	108
Total	14	9	20	22	258	48	3	1	1	14	99	24	513
*** BREAK ***													
04:30 PM	14	0	12	3	26	1	4	3	3	1	50	7	124
04:45 PM	12	0	9	0	27	0	3	7	5	0	59	3	125
Total	26	0	21	3	53	1	7	10	8	1	109	10	249
05:00 PM	17	0	9	2	33	2	12	7	3	3	66	9	163
05:15 PM	8	2	7	3	13	1	14	5	9	1	80	8	151
05:30 PM	9	0	10	0	36	1	10	4	3	2	59	13	147
05:45 PM	12	0	6	3	61	0	7	4	1	1	53	13	161
Total	46	2	32	8	143	4	43	20	16	7	258	43	622
06:00 PM	5	1	4	3	29	1	10	5	2	2	44	7	113
06:15 PM	3	0	7	1	22	0	6	10	2	0	46	8	105
Grand Total	101	15	93	50	688	81	73	46	30	31	625	112	1945
Apprch %	48.3	7.2	44.5	6.1	84	9.9	49	30.9	20.1	4	81.4	14.6	
Total %	5.2	0.8	4.8	2.6	35.4	4.2	3.8	2.4	1.5	1.6	32.1	5.8	

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

File Name : h1003001
Site Code : 00005056
Start Date : 3/4/2010
Page No : 3

	DRIVEWAY Southbound				BIRCH STREET Westbound				TELLER AVENUE Northbound				BIRCH STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**17**	0	9	**26**	2	33	**2**	37	12	**7**	3	22	**3**	66	9	78	**163**
05:15 PM	8	**2**	7	17	**3**	13	1	17	**14**	5	**9**	**28**	1	**80**	8	**89**	151
05:30 PM	9	0	**10**	19	0	36	1	37	10	4	3	17	2	59	**13**	74	147
05:45 PM	12	0	6	18	3	**61**	0	**64**	7	4	1	12	1	53	13	67	161
Total Volume	46	2	32	80	8	143	4	155	43	20	16	79	7	258	43	308	622
% App. Total	57.5	2.5	40		5.2	92.3	2.6		54.4	25.3	20.3		2.3	83.8	14		
PHF	.676	.250	.800	.769	.667	.586	.500	.605	.768	.714	.444	.705	.583	.806	.827	.865	.954



Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: MAIN STREET

File Name : H1103019
Site Code : 00005054
Start Date : 3/16/2011
Page No : 1

Groups Printed- Turning Movements

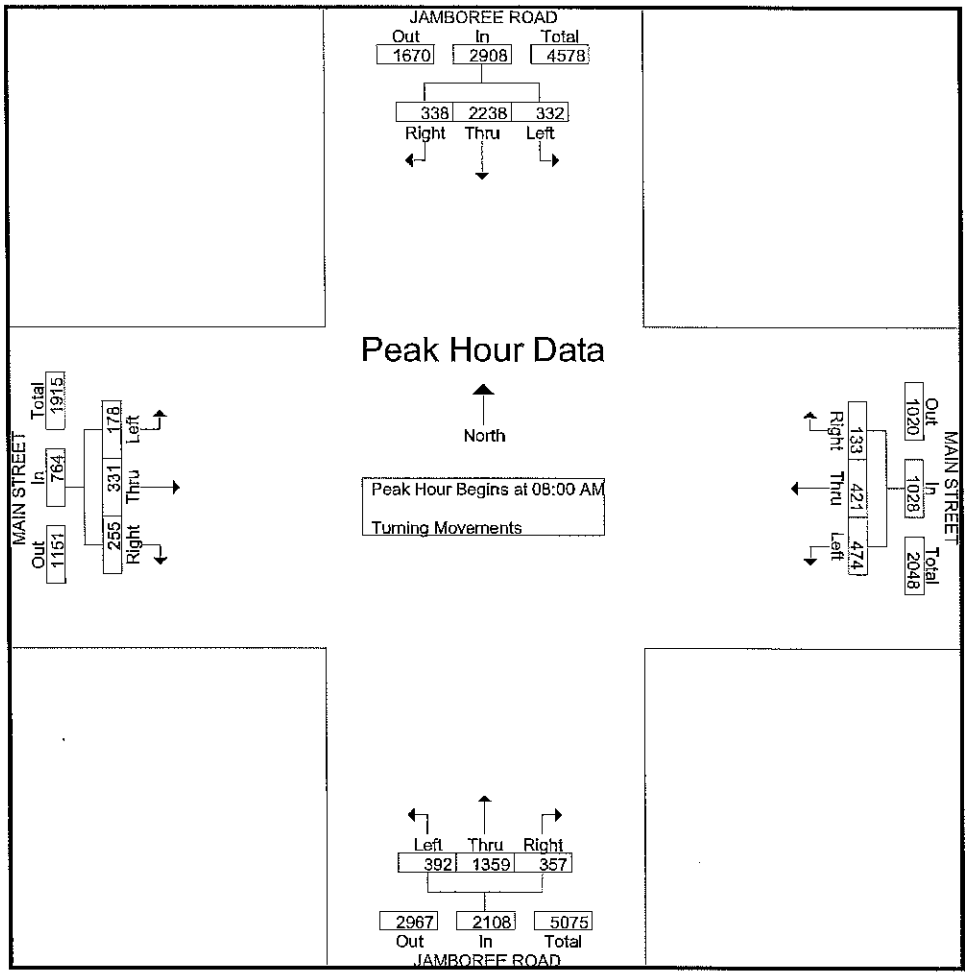
	JAMBOREE ROAD Southbound			MAIN STREET Westbound			JAMBOREE ROAD Northbound			MAIN STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	41	335	27	16	48	70	52	285	72	19	28	8	1001
07:15 AM	47	403	48	16	42	103	48	233	72	22	36	21	1091
07:30 AM	77	535	64	23	79	98	62	264	89	35	45	25	1396
07:45 AM	84	521	75	27	88	107	68	282	85	41	59	30	1467
Total	249	1794	214	82	257	378	230	1064	318	117	168	84	4955
08:00 AM	84	553	83	32	99	117	86	323	101	53	71	41	1643
08:15 AM	91	585	86	38	110	124	95	349	99	60	82	47	1766
08:30 AM	86	563	82	35	113	125	92	359	102	74	87	46	1764
08:45 AM	77	537	81	28	99	108	84	328	90	68	91	44	1635
Total	338	2238	332	133	421	474	357	1359	392	255	331	178	6808
*** BREAK ***													
04:00 PM	28	430	53	43	57	92	98	475	59	164	90	66	1655
04:15 PM	31	444	58	51	67	108	104	466	63	157	97	69	1715
04:30 PM	27	431	64	59	63	105	103	488	61	170	90	63	1724
04:45 PM	38	427	61	61	84	114	92	478	65	153	93	62	1728
Total	124	1732	236	214	271	419	397	1907	248	644	370	260	6822
05:00 PM	36	453	70	58	79	111	98	487	76	169	89	72	1798
05:15 PM	33	443	69	49	71	97	86	493	74	171	96	64	1746
05:30 PM	36	431	54	56	82	107	92	490	69	146	83	60	1706
05:45 PM	37	418	56	52	69	86	81	460	60	138	87	51	1595
Total	142	1745	249	215	301	401	357	1930	279	624	355	247	6845
Grand Total	853	7509	1031	644	1250	1672	1341	6260	1237	1640	1224	769	25430
Apprch %	9.1	79.9	11	18.1	35.1	46.9	15.2	70.8	14	45.1	33.7	21.2	
Total %	3.4	29.5	4.1	2.5	4.9	6.6	5.3	24.6	4.9	6.4	4.8	3	

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: MAIN STREET

File Name : H1103019
Site Code : 00005054
Start Date : 3/16/2011
Page No : 2

	JAMBOREE ROAD Southbound				MAIN STREET Westbound				JAMBOREE ROAD Northbound				MAIN STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	84	553	83	720	32	99	117	248	86	323	101	510	53	71	41	165	1643
08:15 AM	**91**	**585**	**86**	**762**	**38**	110	124	272	**95**	349	99	543	60	82	**47**	189	**1766**
08:30 AM	86	563	82	731	35	**113**	**125**	**273**	92	**359**	**102**	**553**	**74**	**87**	46	**207**	1764
08:45 AM	77	537	81	695	28	99	108	235	84	328	90	502	68	**91**	44	203	1635
Total Volume	338	2238	332	2908	133	421	474	1028	357	1359	392	2108	255	331	178	764	6808
% App. Total	11.6	77	11.4		12.9	41	46.1		16.9	64.5	18.6		33.4	43.3	23.3		
PHF	.929	.956	.965	.954	.875	.931	.948	.941	.939	.946	.961	.953	.861	.909	.947	.923	.964

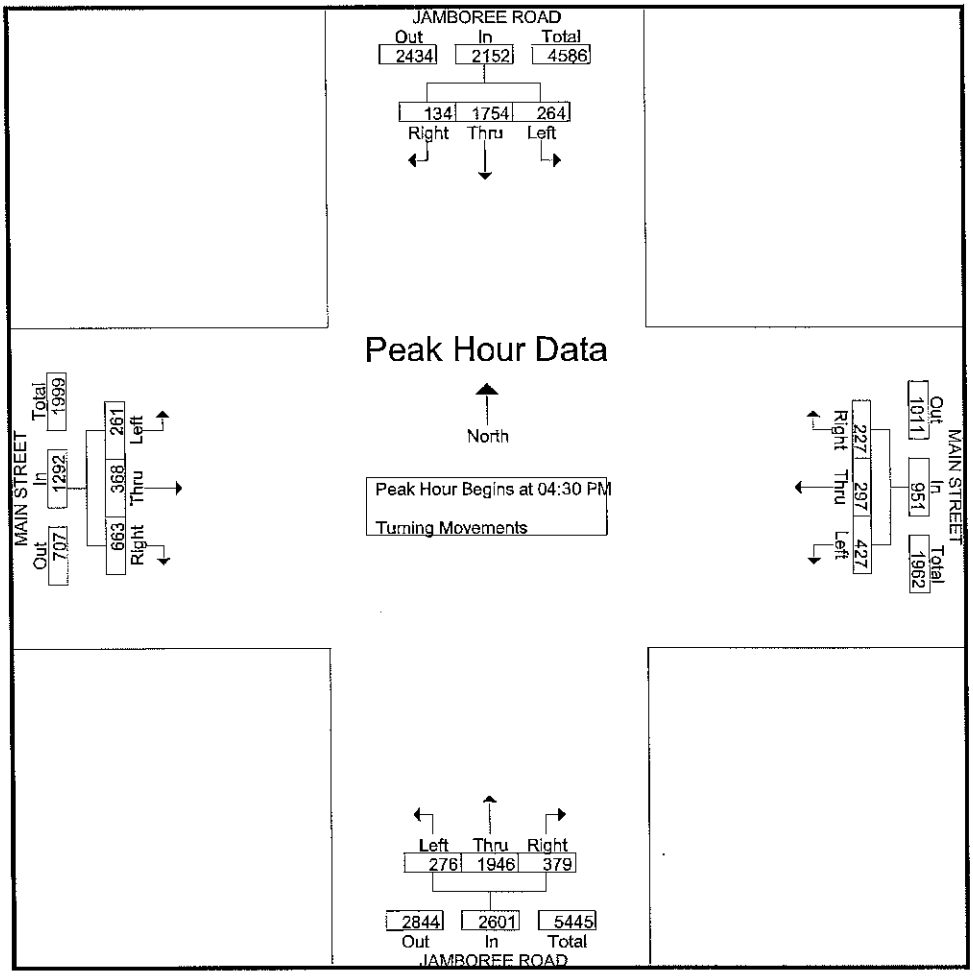


Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: MAIN STREET

File Name : H1103019
Site Code : 00005054
Start Date : 3/16/2011
Page No : 3

	JAMBOREE ROAD Southbound				MAIN STREET Westbound				JAMBOREE ROAD Northbound				MAIN STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	27	431	64	522	59	63	105	227	**103**	488	61	652	170	90	63	323	1724
04:45 PM	**38**	427	61	526	**61**	**84**	**114**	**259**	92	478	65	635	153	93	62	308	1728
05:00 PM	36	**453**	**70**	**559**	58	79	111	248	98	487	**76**	**661**	169	89	**72**	330	**1798**
05:15 PM	33	443	69	545	49	71	97	217	86	**493**	74	653	**171**	**96**	64	**331**	1746
Total Volume	134	1754	264	2152	227	297	427	951	379	1946	276	2601	663	368	261	1292	6996
% App. Total	6.2	81.5	12.3		23.9	31.2	44.9		14.6	74.8	10.6		51.3	28.5	20.2		
PHF	.882	.968	.943	.962	.930	.884	.936	.918	.920	.987	.908	.984	.969	.958	.906	.976	.973



Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: I-405 NB RAMPS

File Name : H1103021
Site Code : 00005061
Start Date : 3/15/2011
Page No : 1

Groups Printed- Turning Movements

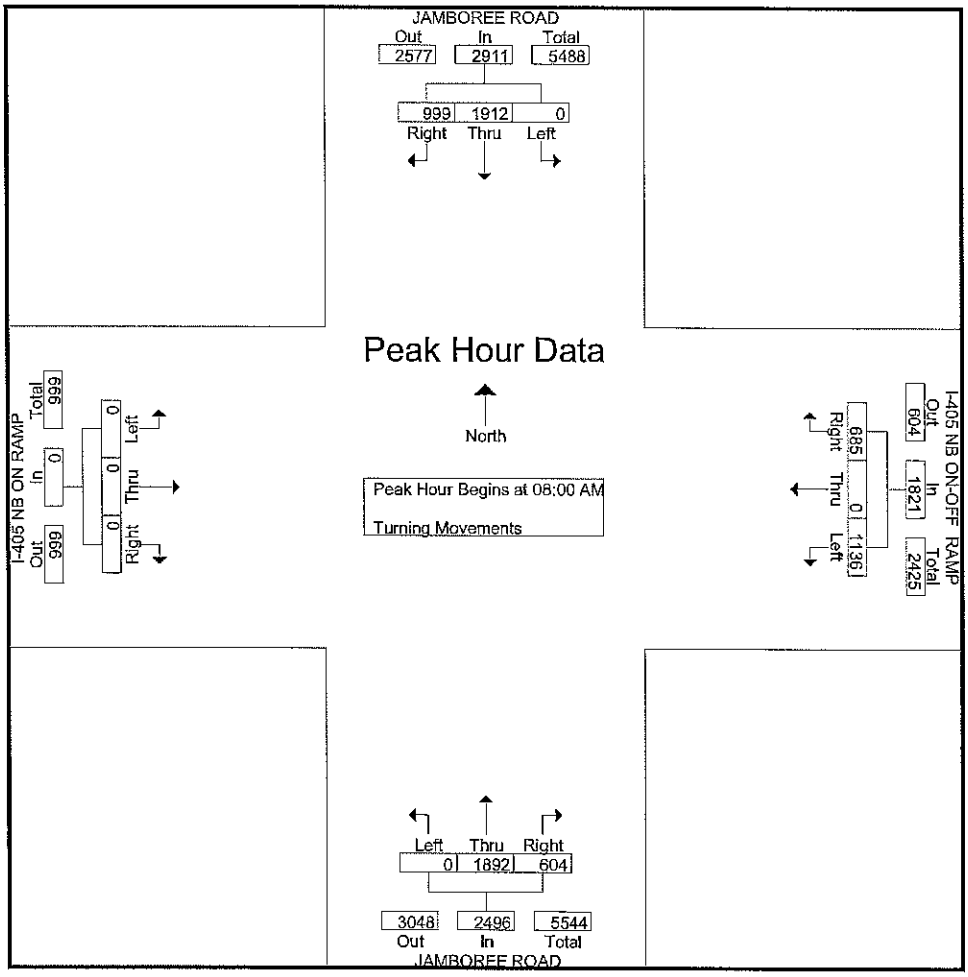
	JAMBOREE ROAD Southbound			I-405 NB ON-OFF RAMP Westbound			JAMBOREE ROAD Northbound			I-405 NB ON RAMP Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	196	247	0	167	0	249	78	342	0	0	0	0	1279
07:15 AM	235	294	0	162	0	241	91	340	0	0	0	0	1363
07:30 AM	235	403	0	157	0	293	105	413	0	0	0	0	1606
07:45 AM	245	432	0	162	0	278	124	436	0	0	0	0	1677
Total	911	1376	0	648	0	1061	398	1531	0	0	0	0	5925
08:00 AM	259	493	0	176	0	295	148	479	0	0	0	0	1850
08:15 AM	250	477	0	181	0	282	158	480	0	0	0	0	1828
08:30 AM	254	489	0	173	0	290	156	488	0	0	0	0	1850
08:45 AM	236	453	0	155	0	269	142	445	0	0	0	0	1700
Total	999	1912	0	685	0	1136	604	1892	0	0	0	0	7228
*** BREAK ***													
04:00 PM	314	385	0	72	0	114	218	548	0	0	0	0	1651
04:15 PM	297	381	0	78	0	125	239	576	0	0	0	0	1696
04:30 PM	319	382	0	91	0	140	229	550	0	0	0	0	1711
04:45 PM	305	389	0	88	0	143	248	586	0	0	0	0	1759
Total	1235	1537	0	329	0	522	934	2260	0	0	0	0	6817
05:00 PM	328	373	0	94	0	145	236	572	0	0	0	0	1748
05:15 PM	337	371	0	96	0	156	254	597	0	0	0	0	1811
05:30 PM	333	365	0	85	0	148	227	574	0	0	0	0	1732
05:45 PM	322	357	0	86	0	129	221	561	0	0	0	0	1676
Total	1320	1466	0	361	0	578	938	2304	0	0	0	0	6967
Grand Total	4465	6291	0	2023	0	3297	2874	7987	0	0	0	0	26937
Apprch %	41.5	58.5	0	38	0	62	26.5	73.5	0	0	0	0	
Total %	16.6	23.4	0	7.5	0	12.2	10.7	29.7	0	0	0	0	

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: I-405 NB RAMPS

File Name : H1103021
Site Code : 00005061
Start Date : 3/15/2011
Page No : 2

	JAMBOREE ROAD Southbound				I-405 NB ON-OFF RAMP Westbound				JAMBOREE ROAD Northbound				I-405 NB ON RAMP Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	**259**	**493**	0	**752**	176	0	**295**	**471**	148	479	0	627	0	0	0	0	**1850**
08:15 AM	250	477	0	727	**181**	0	282	463	**158**	480	0	638	0	0	0	0	1828
08:30 AM	254	489	0	743	173	0	290	463	156	**488**	0	**644**	0	0	0	0	1850
08:45 AM	236	453	0	689	155	0	269	424	142	445	0	587	0	0	0	0	1700
Total Volume	999	1912	0	2911	685	0	1136	1821	604	1892	0	2496	0	0	0	0	7228
% App. Total	34.3	65.7	0		37.6	0	62.4		24.2	75.8	0		0	0	0		
PHF	.964	.970	.000	.968	.946	.000	.963	.967	.956	.969	.000	.969	.000	.000	.000	.000	.977

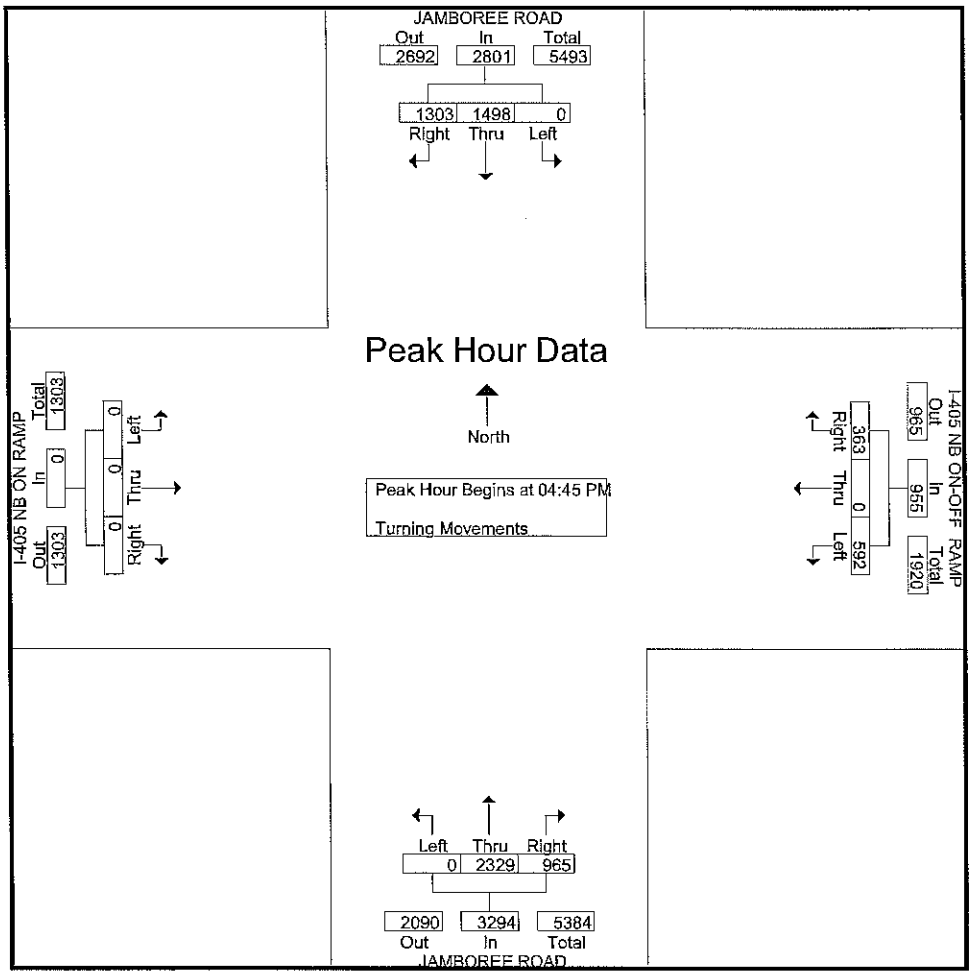


Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: I-405 NB RAMPS

File Name : H1103021
Site Code : 00005061
Start Date : 3/15/2011
Page No : 3

	JAMBOREE ROAD Southbound				I-405 NB ON-OFF RAMP Westbound				JAMBOREE ROAD Northbound				I-405 NB ON RAMP Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	305	**389**	0	694	88	0	143	231	248	586	0	834	0	0	0	0	1759
05:00 PM	328	373	0	701	94	0	145	239	236	572	0	808	0	0	0	0	1748
05:15 PM	**337**	371	0	**708**	**96**	0	**156**	**252**	**254**	**597**	0	**851**	0	0	0	0	**1811**
05:30 PM	333	365	0	698	85	0	148	233	227	574	0	801	0	0	0	0	1732
Total Volume	1303	1498	0	2801	363	0	592	955	965	2329	0	3294	0	0	0	0	7050
% App. Total	46.5	53.5	0		38	0	62		29.3	70.7	0		0	0	0		
PHF	.967	.963	.000	.989	.945	.000	.949	.947	.950	.975	.000	.968	.000	.000	.000	.000	.973



Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
S Direction: JAMBOREE ROAD
E-W Direction: I-405 SB RAMPS

File Name : H1103020
Site Code : 00005061
Start Date : 3/15/2011
Page No : 1

Groups Printed- Turning Movements

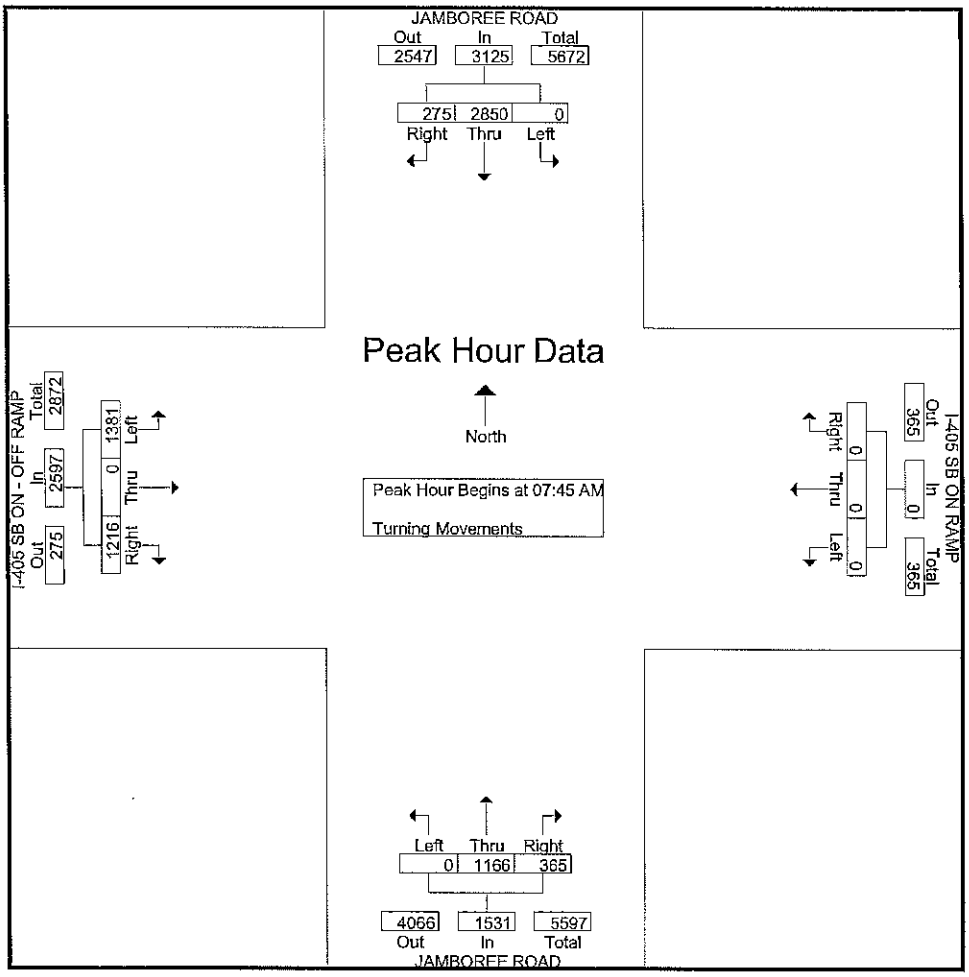
	JAMBOREE ROAD Southbound			I-405 SB ON RAMP Westbound			JAMBOREE ROAD Northbound			I-405 SB ON - OFF RAMP Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	32	457	0	0	0	0	57	168	0	167	0	214	1095
07:15 AM	44	477	0	0	0	0	61	197	0	198	0	207	1184
07:30 AM	61	597	0	0	0	0	66	277	0	245	0	251	1497
07:45 AM	65	668	0	0	0	0	89	285	0	286	0	357	1750
Total	202	2199	0	0	0	0	273	927	0	896	0	1029	5526
08:00 AM	79	718	0	0	0	0	97	291	0	318	0	371	1874
08:15 AM	69	737	0	0	0	0	91	307	0	308	0	334	1846
08:30 AM	62	727	0	0	0	0	88	283	0	304	0	319	1783
08:45 AM	64	697	0	0	0	0	80	277	0	284	0	304	1706
Total	274	2879	0	0	0	0	356	1158	0	1214	0	1328	7209
*** BREAK ***													
04:00 PM	138	382	0	0	0	0	147	470	0	118	0	285	1540
04:15 PM	131	397	0	0	0	0	177	537	0	108	0	257	1607
04:30 PM	121	394	0	0	0	0	161	528	0	111	0	281	1596
04:45 PM	120	387	0	0	0	0	180	600	0	120	0	241	1648
Total	510	1560	0	0	0	0	665	2135	0	457	0	1064	6391
05:00 PM	141	368	0	0	0	0	169	589	0	137	0	277	1681
05:15 PM	148	381	0	0	0	0	181	574	0	128	0	259	1671
05:30 PM	133	376	0	0	0	0	164	567	0	139	0	260	1639
05:45 PM	120	359	0	0	0	0	160	535	0	126	0	224	1524
Total	542	1484	0	0	0	0	674	2265	0	530	0	1020	6515
Grand Total	1528	8122	0	0	0	0	1968	6485	0	3097	0	4441	25641
Apprch %	15.8	84.2	0	0	0	0	23.3	76.7	0	41.1	0	58.9	
Total %	6	31.7	0	0	0	0	7.7	25.3	0	12.1	0	17.3	

Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: I-405 SB RAMPS

File Name : H1103020
Site Code : 00005061
Start Date : 3/15/2011
Page No : 2

	JAMBOREE ROAD Southbound				I-405 SB ON RAMP Westbound				JAMBOREE ROAD Northbound				I-405 SB ON - OFF RAMP Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	65	668	0	733	0	0	0	0	89	285	0	374	286	0	357	643	1750
08:00 AM	**79**	718	0	797	0	0	0	0	**97**	291	0	388	**318**	0	**371**	**689**	**1874**
08:15 AM	69	**737**	0	**806**	0	0	0	0	91	**307**	0	**398**	308	0	334	642	1846
08:30 AM	62	727	0	789	0	0	0	0	88	283	0	371	304	0	319	623	1783
Total Volume	275	2850	0	3125	0	0	0	0	365	1166	0	1531	1216	0	1381	2597	7253
% App. Total	8.8	91.2	0		0	0	0		23.8	76.2	0		46.8	0	53.2		
PHF	.870	.967	.000	.969	.000	.000	.000	.000	.941	.950	.000	.962	.956	.000	.931	.942	.968

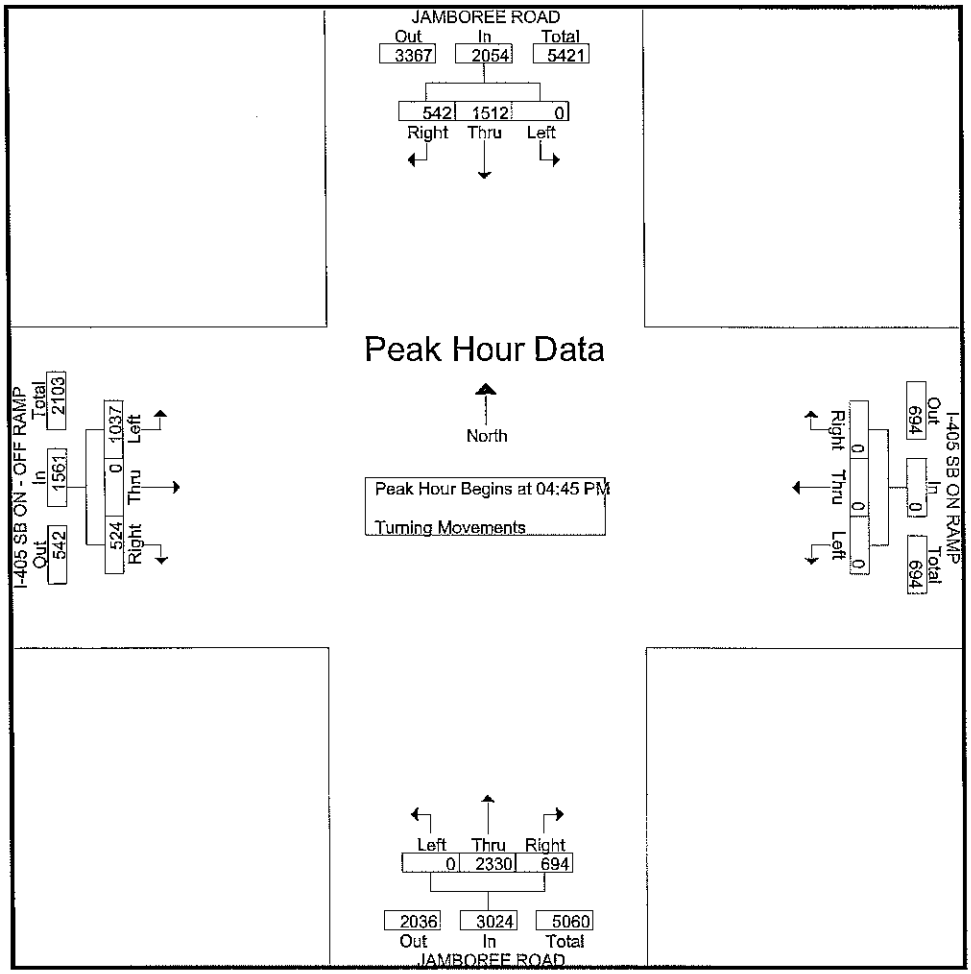


Transportation Studies, Inc.
2680 Walnut Avenue, Suite C
Tustin, CA. 92780

City: IRVINE
N-S Direction: JAMBOREE ROAD
E-W Direction: I-405 SB RAMPS

File Name : H1103020
Site Code : 00005061
Start Date : 3/15/2011
Page No : 3

	JAMBOREE ROAD Southbound				I-405 SB ON RAMP Westbound				JAMBOREE ROAD Northbound				I-405 SB ON - OFF RAMP Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	120	**387**	0	507	0	0	0	0	180	**600**	0	**780**	120	0	241	361	1648
05:00 PM	141	368	0	509	0	0	0	0	169	589	0	758	137	0	**277**	**414**	**1681**
05:15 PM	**148**	381	0	**529**	0	0	0	0	**181**	574	0	755	128	0	259	387	1671
05:30 PM	133	376	0	509	0	0	0	0	164	567	0	731	**139**	0	260	399	1639
Total Volume	542	1512	0	2054	0	0	0	0	694	2330	0	3024	524	0	1037	1561	6639
% App. Total	26.4	73.6	0		0	0	0		22.9	77.1	0		33.6	0	66.4		
PHF	.916	.977	.000	.971	.000	.000	.000	.000	.959	.971	.000	.969	.942	.000	.936	.943	.987



TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N Direction: JAMBOREE ROAD
W Direction: MICHELSON DRIVE

File Name : h1105010
Site Code : 00005062
Start Date : 5/4/2011
Page No : 1

Groups Printed- Turning Movements

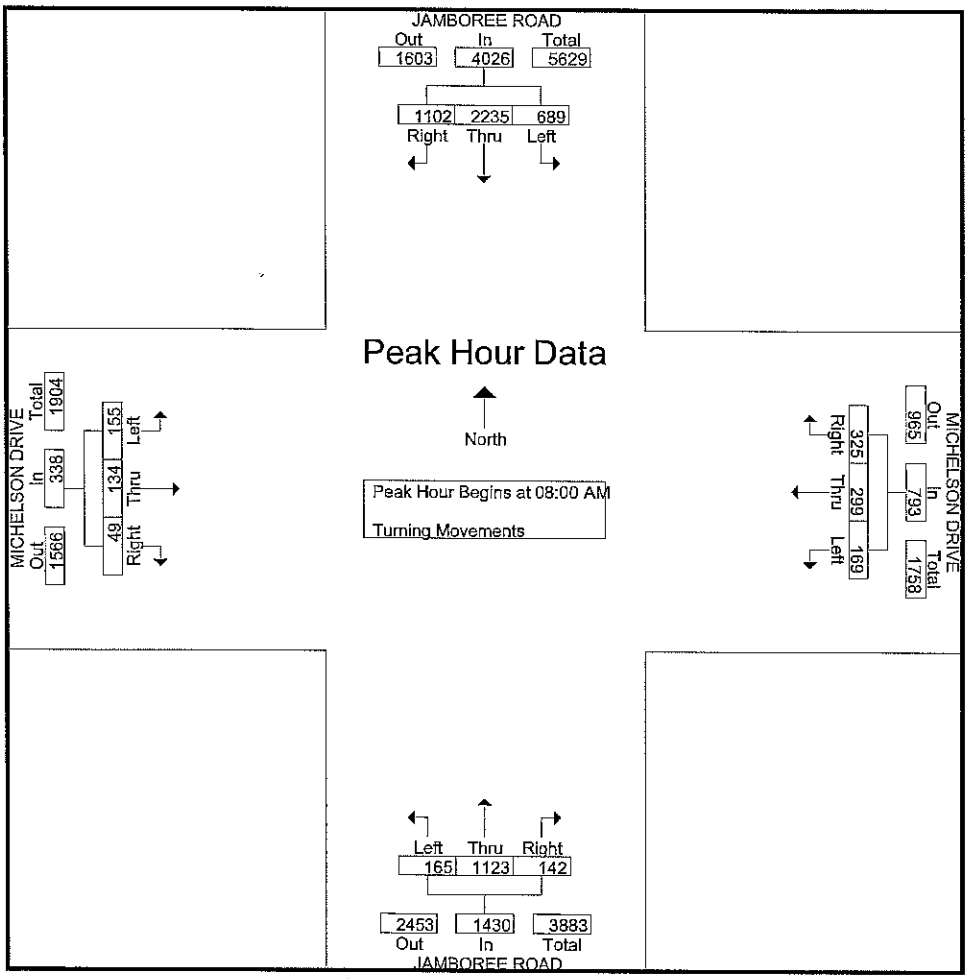
	JAMBOREE ROAD Southbound			MICHELSON DRIVE Westbound			JAMBOREE ROAD Northbound			MICHELSON DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	194	364	121	27	31	14	16	222	24	2	20	25	1060
07:15 AM	214	397	130	31	39	19	19	237	26	4	21	25	1162
07:30 AM	220	407	137	36	40	20	21	264	21	4	24	34	1228
07:45 AM	247	440	164	52	45	27	23	277	29	3	26	31	1364
Total	875	1608	552	146	155	80	79	1000	100	13	91	115	4814
08:00 AM	287	542	173	72	56	31	29	283	39	7	32	39	1590
08:15 AM	263	551	160	89	76	49	37	291	42	13	36	40	1647
08:30 AM	283	581	183	83	84	45	39	277	44	14	31	39	1703
08:45 AM	269	561	173	81	83	44	37	272	40	15	35	37	1647
Total	1102	2235	689	325	299	169	142	1123	165	49	134	155	6587
*** BREAK ***													
04:30 PM	63	316	90	147	31	46	51	387	13	13	66	177	1400
04:45 PM	60	347	81	174	39	51	53	407	15	16	71	187	1501
Total	123	663	171	321	70	97	104	794	28	29	137	364	2901
05:00 PM	72	342	98	168	44	59	57	377	16	18	73	183	1507
05:15 PM	64	341	92	173	51	61	62	367	18	17	69	195	1510
05:30 PM	71	334	86	161	49	58	49	386	19	18	74	210	1515
05:45 PM	77	347	92	177	58	62	57	401	18	16	77	214	1596
Total	284	1364	368	679	202	240	225	1531	71	69	293	802	6128
06:00 PM	64	367	81	167	53	59	60	431	16	13	64	183	1558
06:15 PM	61	347	82	137	49	53	51	414	19	12	58	172	1455
Grand Total	2509	6584	1943	1775	828	698	661	5293	399	185	777	1791	23443
Apprch %	22.7	59.7	17.6	53.8	25.1	21.1	10.4	83.3	6.3	6.7	28.2	65.1	
Total %	10.7	28.1	8.3	7.6	3.5	3	2.8	22.6	1.7	0.8	3.3	7.6	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
S Direction: JAMBOREE ROAD
W Direction: MICHELSON DRIVE

File Name : h1105010
Site Code : 00005062
Start Date : 5/4/2011
Page No : 2

	JAMBOREE ROAD Southbound				MICHELSON DRIVE Westbound				JAMBOREE ROAD Northbound				MICHELSON DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	**287**	542	173	1002	72	56	31	159	29	283	39	351	7	32	39	78	1590
08:15 AM	263	551	160	974	**89**	76	**49**	**214**	37	**291**	42	**370**	13	**36**	**40**	**89**	1647
08:30 AM	283	**581**	**183**	**1047**	83	**84**	45	212	**39**	277	**44**	360	14	31	39	84	**1703**
08:45 AM	269	561	173	1003	81	83	44	208	37	272	40	349	**15**	35	37	87	1647
Total Volume	1102	2235	689	4026	325	299	169	793	142	1123	165	1430	49	134	155	338	6587
% App. Total	27.4	55.5	17.1		41	37.7	21.3		9.9	78.5	11.5		14.5	39.6	45.9		
PHF	.960	.962	.941	.961	.913	.890	.862	.926	.910	.965	.938	.966	.817	.931	.969	.949	.967

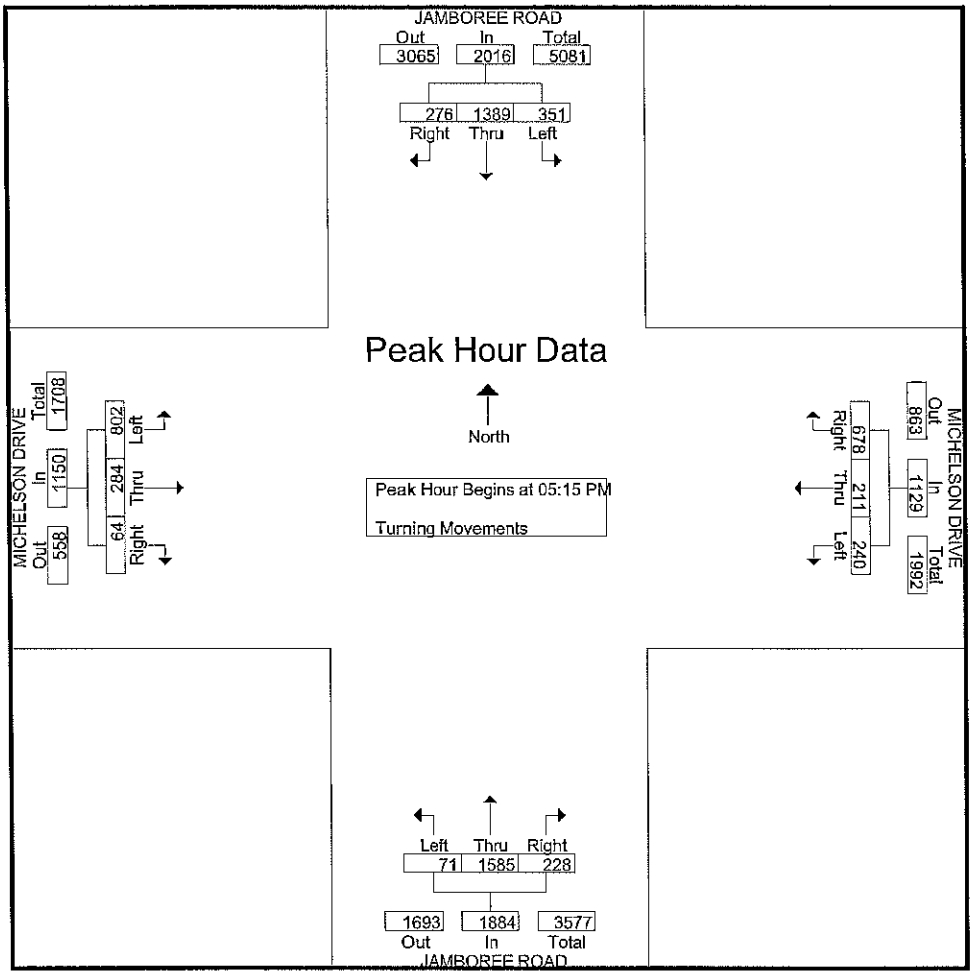


TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N/S Direction: JAMBOREE ROAD
E/W Direction: MICHELSON DRIVE

File Name : h1105010
Site Code : 00005062
Start Date : 5/4/2011
Page No : 3

	JAMBOREE ROAD Southbound				MICHELSON DRIVE Westbound				JAMBOREE ROAD Northbound				MICHELSON DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	64	341	**92**	497	173	51	61	285	**62**	367	18	447	17	69	195	281	1510
05:30 PM	71	334	86	491	161	49	58	268	49	386	**19**	454	**18**	74	210	302	1515
05:45 PM	**77**	347	92	**516**	**177**	**58**	**62**	**297**	57	401	18	476	16	**77**	**214**	**307**	**1596**
06:00 PM	64	**367**	81	512	167	53	59	279	60	**431**	16	**507**	13	64	183	260	1558
Total Volume	276	1389	351	2016	678	211	240	1129	228	1585	71	1884	64	284	802	1150	6179
% App. Total	13.7	68.9	17.4		60.1	18.7	21.3		12.1	84.1	3.8		5.6	24.7	69.7		
PHF	.896	.946	.954	.977	.958	.909	.968	.950	.919	.919	.934	.929	.889	.922	.937	.936	.968



ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

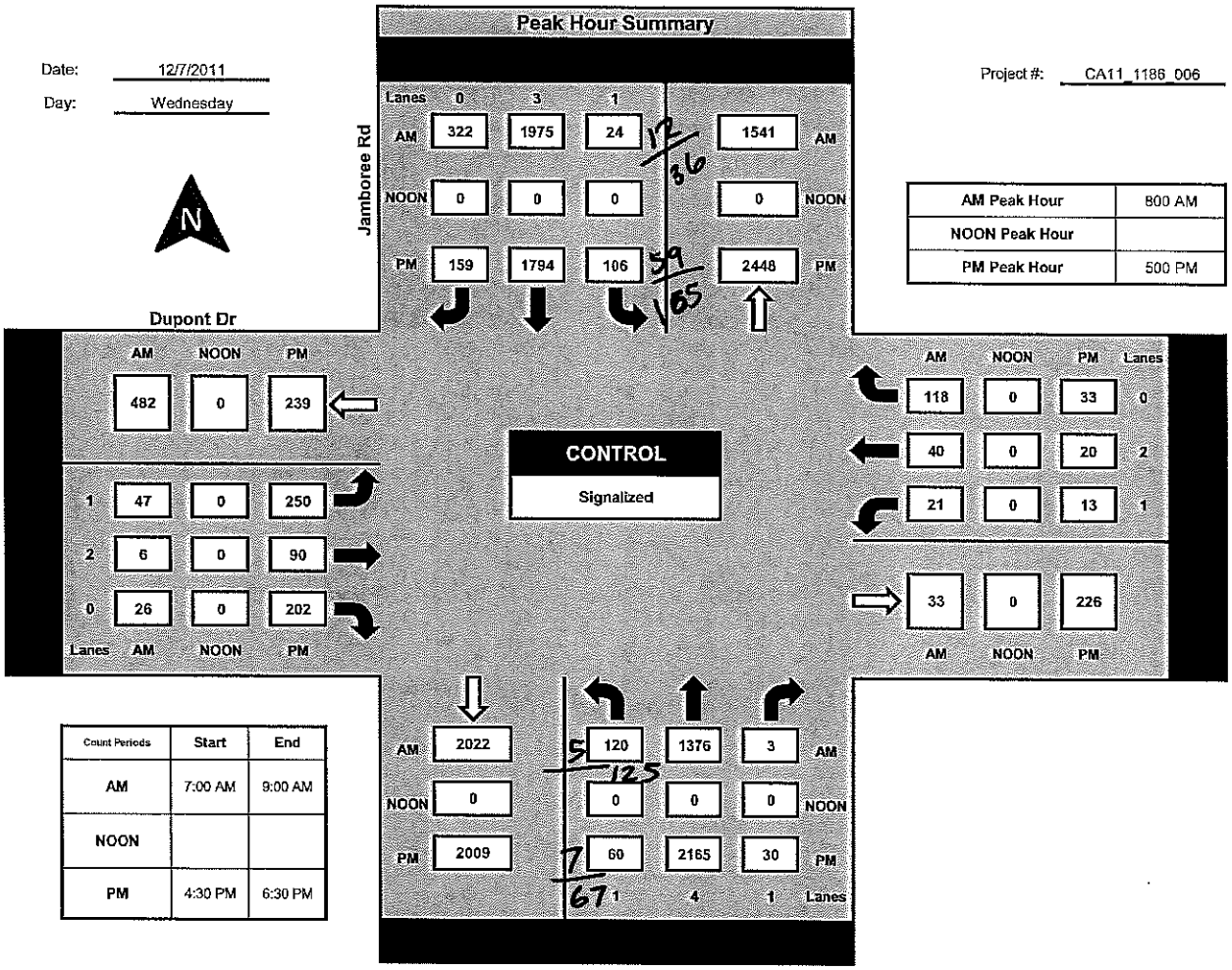
Jamboree Rd and Dupont Dr , City of Irvine

Date: 12/7/2011

Day: Wednesday

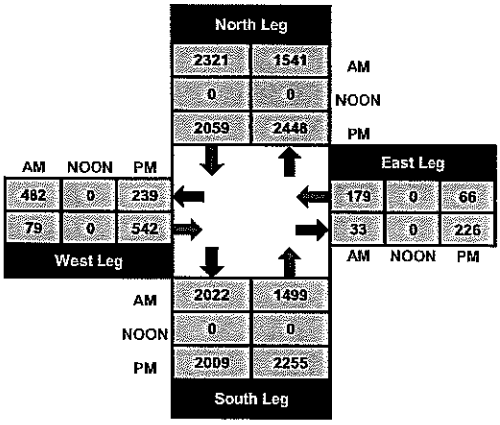
Project #: CA11_1186_006

AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	500 PM

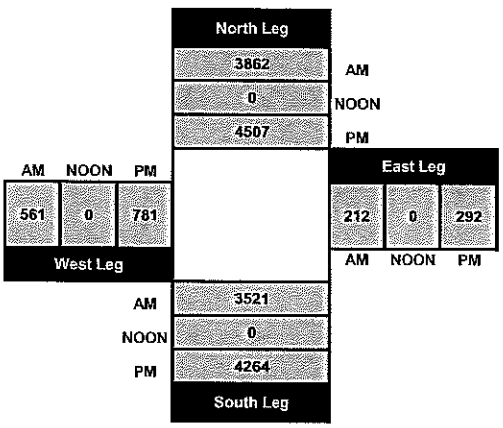


Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



ITM Peak Hour Summary

Prepared by:

NDS

National Data & Surveying Services

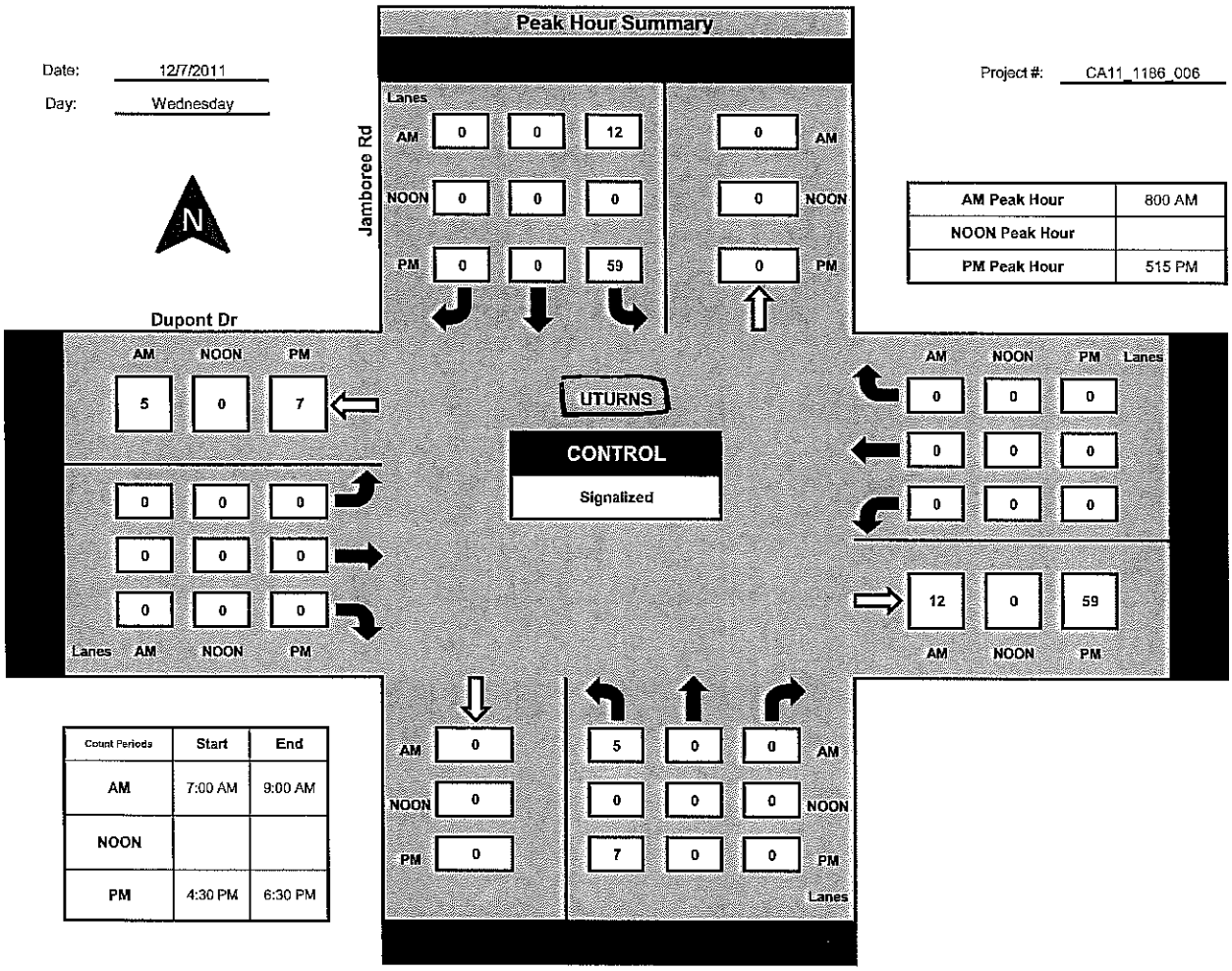
Jamboree Rd and Dupont Dr , City of Irvine

Peak Hour Summary

Date: 12/7/2011

Day: Wednesday

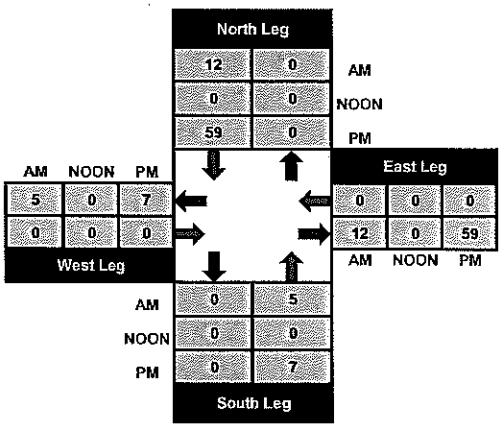
Project #: CA11_1186_006



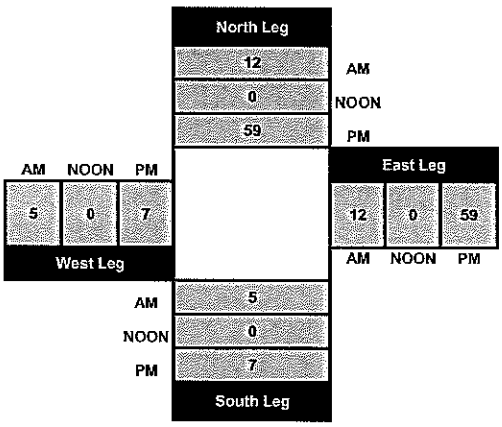
AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	515 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_006

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Jamboree Rd			Jamboree Rd			Dupont Dr			Dupont Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 4	NR 1	SL 1	ST 3	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
7:00 AM	15	130	2	8	324	47	3	0	3	2	2	22	558
7:15 AM	15	216	0	7	397	36	7	3	4	0	8	30	723
7:30 AM	28	220	1	5	470	43	6	1	4	4	5	25	812
7:45 AM	25	342	2	8	442	71	7	2	3	7	9	39	957
8:00 AM	37	360	1	5	503	78	10	2	8	8	8	31	1051
8:15 AM	25	367	1	6	510	81	10	1	7	3	9	28	1048
8:30 AM	32	335	0	7	495	81	13	1	7	6	14	30	1021
8:45 AM	26	314	1	6	467	82	14	2	4	4	9	29	958
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	203	2284	8	52	3608	519	70	12	40	34	64	234	7128
APPROACH %'s :	8.14%	91.54%	0.32%	1.24%	86.34%	12.42%	57.38%	9.84%	32.79%	10.24%	19.28%	70.48%	
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	120	1376	3	24	1975	322	47	6	26	21	40	118	4078
PEAK HR FACTOR :	5 / 125	0.942		12 / 36	0.972			0.940			0.895		0.970

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_006

Day: WEDNESDAY

UTURNS

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Jamboree Rd			Jamboree Rd			Dupont Dr			Dupont Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
7:00 AM	1			1									2
7:15 AM	1			1									2
7:30 AM	0			3									3
7:45 AM	1			2									3
8:00 AM	2			3									5
8:15 AM	0			2									2
8:30 AM	1			2									3
8:45 AM	2			5									7
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	8	0	0	19	0	0	0	0	0	0	0	0	27
APPROACH %'s :	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	5	0	0	12	0	0	0	0	0	0	0	0	17
PEAK HR FACTOR :		0.625			0.600			0.000			0.000		0.607

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_006

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Jamboree Rd			Jamboree Rd			Dupont Dr			Dupont Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 4	NR 1	SL 1	ST 3	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
4:30 PM	8	458	5	17	322	30	83	4	41	0	2	11	981
4:45 PM	11	452	3	27	426	55	62	13	42	4	2	11	1108
5:00 PM	15	564	10	19	390	29	79	20	66	3	3	3	1201
5:15 PM	21	559	5	24	495	21	71	18	53	3	4	11	1285
5:30 PM	9	544	7	37	461	42	56	32	48	5	5	12	1258
5:45 PM	15	498	8	26	448	67	44	20	35	2	8	7	1178
6:00 PM	9	467	9	22	364	47	43	14	36	0	6	12	1029
6:15 PM	13	412	5	29	422	47	46	20	27	1	8	13	1043
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	101	3954	52	201	3328	338	484	141	348	18	38	80	9083
APPROACH %'s :	2.46%	96.27%	1.27%	5.20%	86.06%	8.74%	49.74%	14.49%	35.77%	13.24%	27.94%	58.82%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	60	2165	30	106	1794	159	250	90	202	13	20	33	4922
PEAK HR FACTOR :	7	0.957		59	0.951			0.821			0.750		0.958
	67			165									

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_006

Day: WEDNESDAY

City: City of Irvine

UTURNS

Date: 12/07/2011

PM

NS/EW Streets:	Jamboree Rd			Jamboree Rd			Dupont Dr			Dupont Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
4:30 PM	1			9									10
4:45 PM	7			10									17
5:00 PM	0			14									14
5:15 PM	1			18									19
5:30 PM	2			13									15
5:45 PM	1			14									15
6:00 PM	3			14									17
6:15 PM	0			17									17
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	15	0	0	109	0	0	0	0	0	0	0	0	124
APPROACH %'s :	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	515 PM												TOTAL
PEAK HR VOL :	7	0	0	59	0	0	0	0	0	0	0	0	66
PEAK HR FACTOR :		0.583			0.819			0.000			0.000		0.868

CONTROL : Signalized

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: CAMPUS DRIVE

File Name : h1104046
Site Code : 00005062
Start Date : 5/4/2011
Page No : 1

Groups Printed- Turning Movements

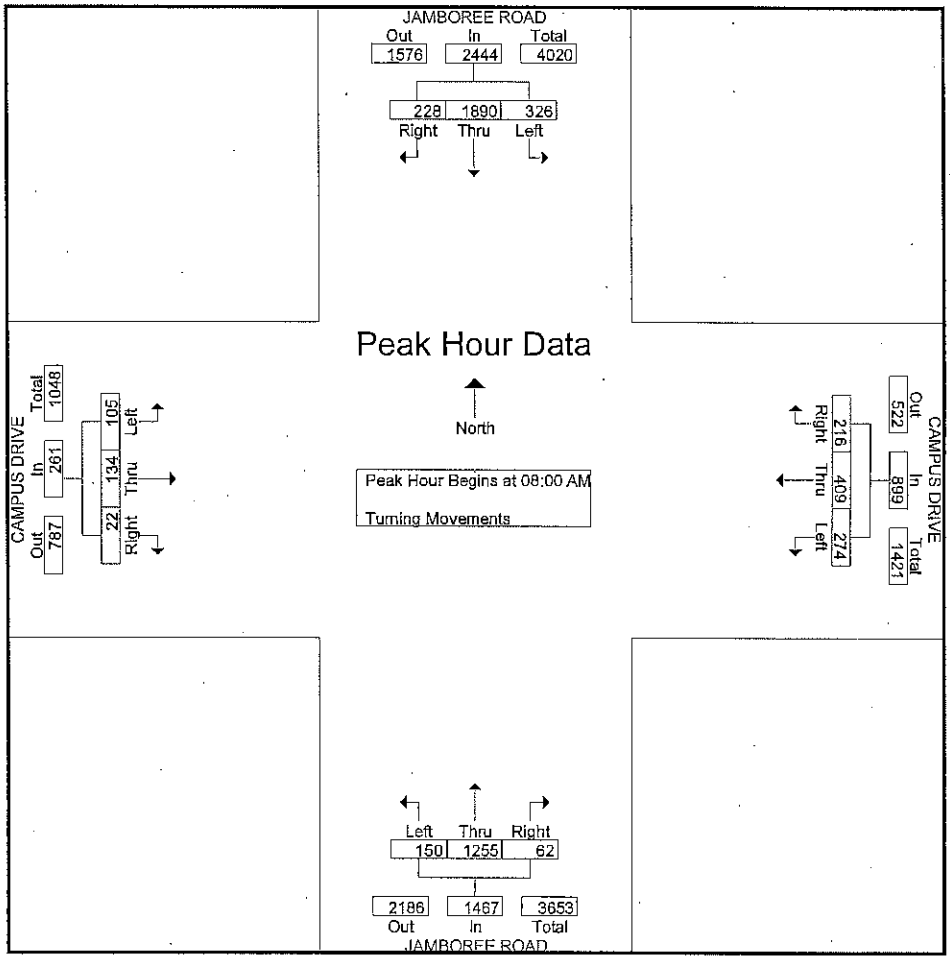
	JAMBOREE ROAD Southbound			CAMPUS DRIVE Westbound			JAMBOREE ROAD Northbound			CAMPUS DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	24	314	51	31	64	37	10	214	26	1	19	16	807
07:15 AM	29	327	59	38	77	41	13	251	29	2	21	19	906
07:30 AM	31	333	53	36	71	47	18	274	31	3	24	17	938
07:45 AM	43	369	62	37	86	51	17	291	36	5	27	19	1043
Total	127	1343	225	142	298	176	58	1030	122	11	91	71	3694
08:00 AM	51	467	72	43	99	65	12	298	39	6	31	24	1207
08:15 AM	61	463	81	57	104	69	15	311	36	5	32	25	1259
08:30 AM	59	487	89	60	108	71	18	332	39	6	34	32	1335
08:45 AM	57	473	84	56	98	69	17	314	36	5	37	24	1270
Total	228	1890	326	216	409	274	62	1255	150	22	134	105	5071
*** BREAK ***													
04:30 PM	44	297	53	91	62	37	33	293	15	39	61	57	1082
04:45 PM	49	310	62	86	63	41	36	317	18	44	67	53	1146
Total	93	607	115	177	125	78	69	610	33	83	128	110	2228
05:00 PM	54	291	77	97	56	44	39	291	19	45	71	67	1151
05:15 PM	57	297	69	84	67	47	37	280	21	41	78	61	1139
05:30 PM	49	294	63	81	72	51	40	289	26	40	69	62	1136
05:45 PM	62	313	61	79	64	47	39	277	24	40	62	61	1129
Total	222	1195	270	341	259	189	155	1137	90	166	280	251	4555
06:00 PM	57	319	59	72	59	43	33	314	27	39	57	73	1152
06:15 PM	53	314	53	64	57	39	31	320	30	36	58	64	1119
Grand Total	780	5668	1048	1012	1207	799	408	4666	452	357	748	674	17819
Apprch %	10.4	75.6	14	33.5	40	26.5	7.4	84.4	8.2	20.1	42	37.9	
Total %	4.4	31.8	5.9	5.7	6.8	4.5	2.3	26.2	2.5	2	4.2	3.8	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: CAMPUS DRIVE

File Name : h1104046
Site Code : 00005062
Start Date : 5/4/2011
Page No : 2

	JAMBOREE ROAD Southbound				CAMPUS DRIVE Westbound				JAMBOREE ROAD Northbound				CAMPUS DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	51	467	72	590	43	99	65	207	12	298	**39**	349	**6**	31	24	61	1207
08:15 AM	**61**	463	81	605	57	104	69	230	15	**311**	36	362	5	32	25	62	1259
08:30 AM	59	**487**	**89**	**635**	**60**	**108**	**71**	**239**	**18**	**332**	39	**389**	6	34	**32**	**72**	**1335**
08:45 AM	57	473	84	614	56	98	69	223	17	314	36	367	5	**37**	24	66	1270
Total Volume	228	1890	326	2444	216	409	274	899	62	1255	150	1467	22	134	105	261	5071
% App. Total	9.3	77.3	13.3		24	45.5	30.5		4.2	85.5	10.2		8.4	51.3	40.2		
PHF	.934	.970	.916	.962	.900	.947	.965	.940	.861	.945	.962	.943	.917	.905	.820	.906	.950

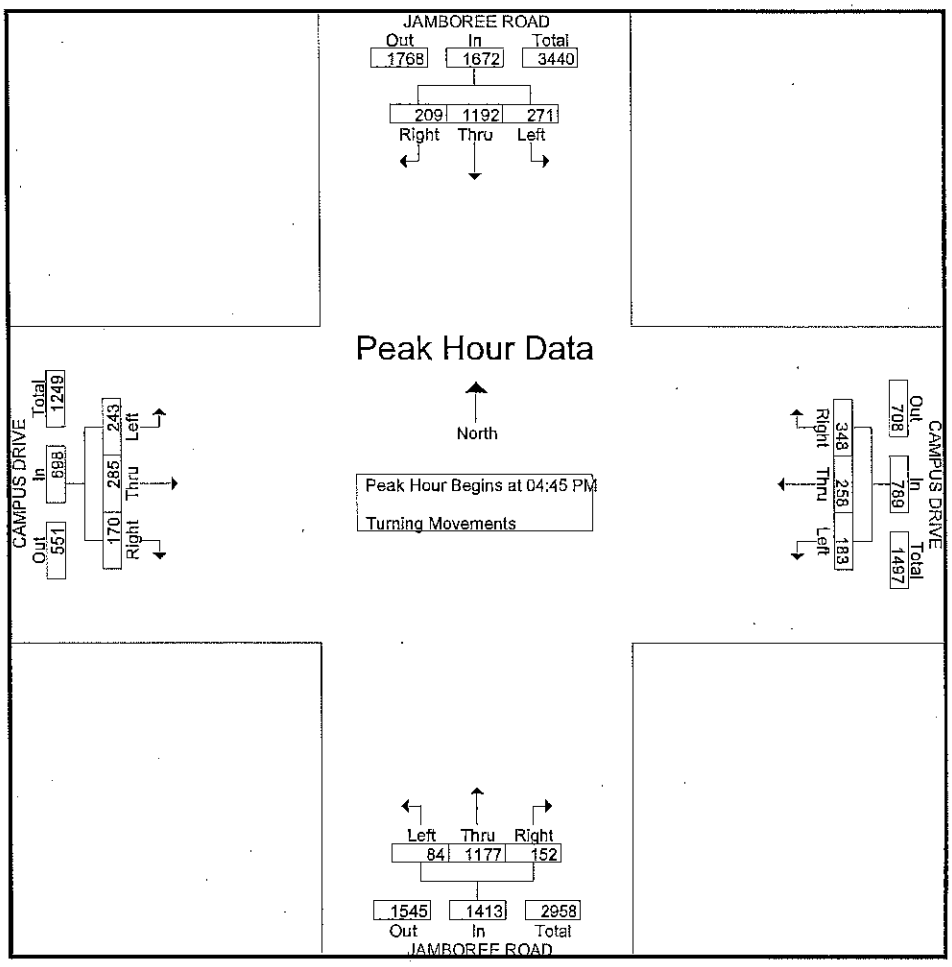


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: CAMPUS DRIVE

File Name : h1104046
Site Code : 00005062
Start Date : 5/4/2011
Page No : 3

	JAMBOREE ROAD Southbound				CAMPUS DRIVE Westbound				JAMBOREE ROAD Northbound				CAMPUS DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	49	**310**	62	421	86	63	41	190	36	**317**	18	**371**	44	67	53	164	1146
05:00 PM	54	291	77	422	**97**	56	44	197	39	291	19	349	**45**	71	**67**	**183**	**1151**
05:15 PM	**57**	297	69	**423**	84	67	47	198	37	280	21	338	41	**78**	61	180	1139
05:30 PM	49	294	63	406	81	**72**	**51**	**204**	**40**	289	**26**	355	40	69	62	171	1136
Total Volume	209	1192	271	1672	348	258	183	789	152	1177	84	1413	170	285	243	698	4572
% App. Total	12.5	71.3	16.2		44.1	32.7	23.2		10.8	83.3	5.9		24.4	40.8	34.8		
PHF	.917	.961	.880	.988	.897	.896	.897	.967	.950	.928	.808	.952	.944	.913	.907	.954	.993



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: BIRCH STREET

File Name : H1104042
Site Code : 00005061
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

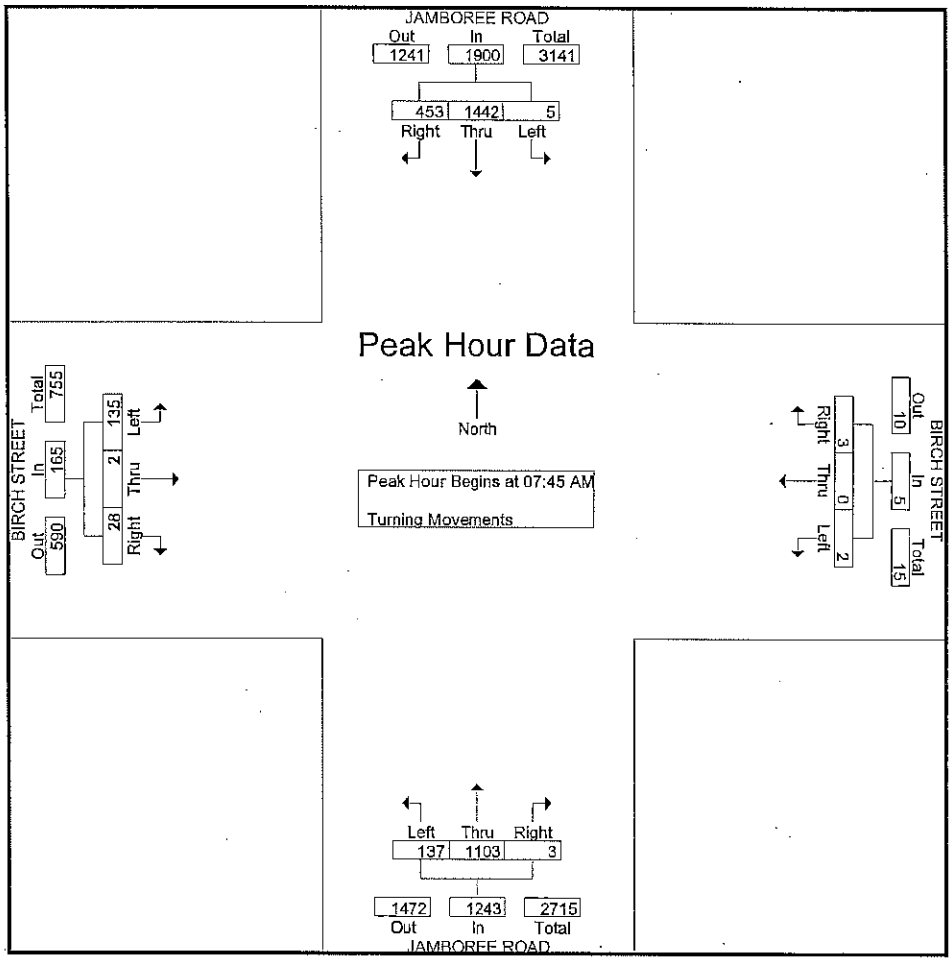
	JAMBOREE ROAD Southbound			BIRCH STREET Westbound			JAMBOREE ROAD Northbound			BIRCH STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	63	267	5	3	0	0	1	167	22	3	0	17	548
07:15 AM	77	314	2	3	0	1	1	187	27	5	0	21	638
07:30 AM	93	341	1	2	0	0	1	222	30	7	1	31	729
07:45 AM	114	357	3	1	0	1	1	262	33	6	2	34	814
Total	347	1279	11	9	0	2	4	838	112	21	3	103	2729
08:00 AM	122	374	1	1	0	0	0	283	37	7	0	36	861
08:15 AM	119	368	0	0	0	0	0	281	36	6	0	34	844
08:30 AM	98	343	1	1	0	1	2	277	31	9	0	31	794
08:45 AM	93	357	2	0	0	0	1	269	37	8	0	34	801
Total	432	1442	4	2	0	1	3	1110	141	30	0	135	3300
*** BREAK ***													
04:30 PM	37	281	2	3	0	0	1	395	29	26	0	74	848
04:45 PM	47	304	1	1	0	0	1	419	31	29	0	88	921
Total	84	585	3	4	0	0	2	814	60	55	0	162	1769
05:00 PM	41	314	1	0	0	0	2	404	32	31	0	81	906
05:15 PM	39	298	0	1	0	1	0	431	36	34	0	89	929
05:30 PM	47	316	0	0	0	0	0	444	40	31	0	76	954
05:45 PM	49	319	0	0	0	0	0	427	32	26	0	73	926
Total	176	1247	1	1	0	1	2	1706	140	122	0	319	3715
06:00 PM	39	306	0	2	0	0	1	421	29	25	0	69	892
06:15 PM	37	291	2	0	0	0	0	408	27	21	0	62	848
Grand Total	1115	5150	21	18	0	4	12	5297	509	274	3	850	13253
Apprch %	17.7	81.9	0.3	81.8	0	18.2	0.2	91	8.7	24.3	0.3	75.4	
Total %	8.4	38.9	0.2	0.1	0	0	0.1	40	3.8	2.1	0	6.4	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

'ity: NEWPORT BEACH
.N-S Direction: JAMBOREE ROAD
E-W Direction: BIRCH STREET

File Name : H1104042
Site Code : 00005061
Start Date : 5/3/2011
Page No : 2

	JAMBOREE ROAD Southbound				BIRCH STREET Westbound				JAMBOREE ROAD Northbound				BIRCH STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	114	357	3	474	1	0	1	2	1	262	33	296	6	2	34	42	814
08:00 AM	122	374	1	497	1	0	0	1	0	283	37	320	7	0	36	43	861
08:15 AM	119	368	0	487	0	0	0	0	0	281	36	317	6	0	34	40	844
08:30 AM	98	343	1	442	1	0	1	2	2	277	31	310	9	0	31	40	794
Total Volume	453	1442	5	1900	3	0	2	5	3	1103	137	1243	28	2	135	165	3313
% App. Total	23.8	75.9	0.3		60	0	40		0.2	88.7	11		17	1.2	81.8		
PHF	.928	.964	.417	.956	.750	.000	.500	.625	.375	.974	.926	.971	.778	.250	.938	.959	.962

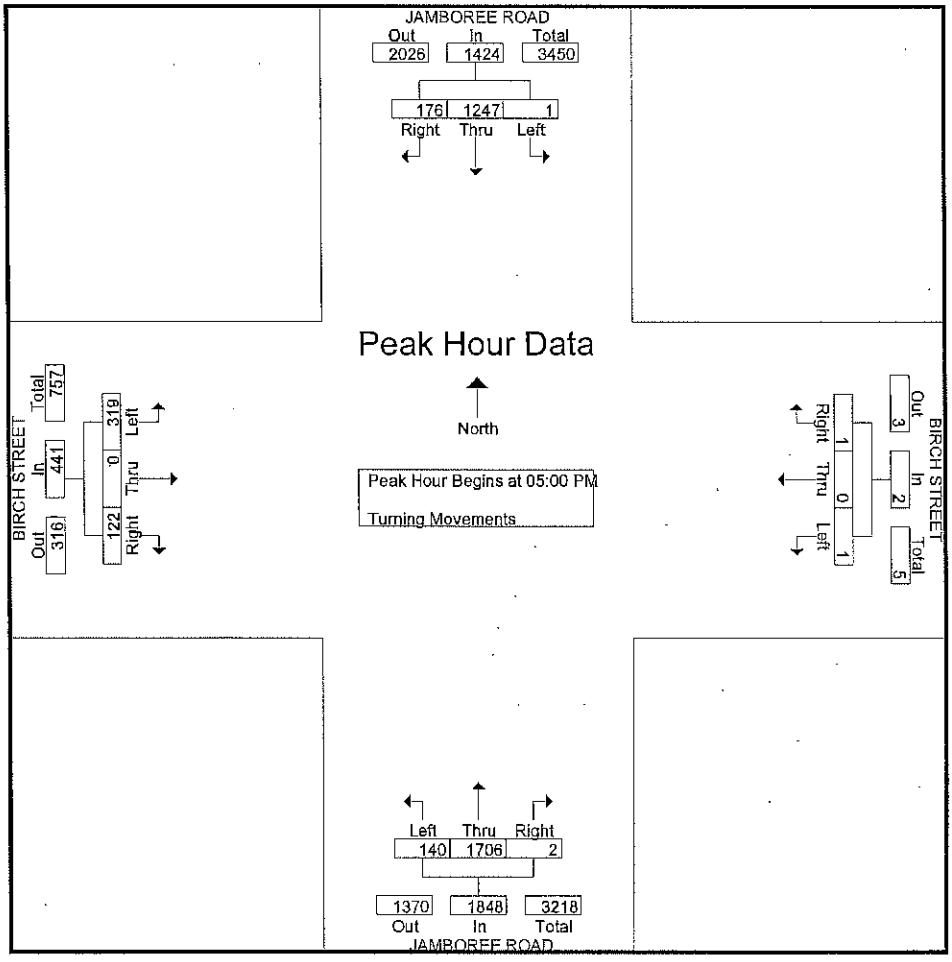


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: BIRCH STREET

File Name : H1104042
Site Code : 00005061
Start Date : 5/3/2011
Page No : 3

	JAMBOREE ROAD Southbound				BIRCH STREET Westbound				JAMBOREE ROAD Northbound				BIRCH STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	41	314	1	356	0	0	0	0	2	404	32	438	31	0	81	112	906
05:15 PM	39	298	0	337	1	0	1	2	0	431	36	467	34	0	89	123	929
05:30 PM	47	316	0	363	0	0	0	0	0	444	40	484	31	0	76	107	954
05:45 PM	49	319	0	368	0	0	0	0	0	427	32	459	26	0	73	99	926
Total Volume	176	1247	1	1424	1	0	1	2	2	1706	140	1848	122	0	319	441	3715
% App. Total	12.4	87.6	0.1		50	0	50		0.1	92.3	7.6		27.7	0	72.3		
PHF	.898	.977	.250	.967	.250	.000	.250	.250	.250	.961	.875	.955	.897	.000	.896	.896	.974



Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irvine
N/S: Jamboree Road
E/W: Birch Street
Weather: Sunny

File Name : IRVJABIAM
Site Code : 00000035
Start Date : 3/22/2011
Page No : 1

Groups Printed- Total Volume

	Jamboree Road Southbound				Birch Street Westbound				Jamboree Road Northbound				Birch Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	203	65	268	0	0	0	0	16	127	0	143	20	0	6	26	437
07:15 AM	1	279	78	358	0	0	2	2	20	172	1	193	11	0	4	15	568
07:30 AM	0	300	71	371	0	0	2	2	30	255	0	285	16	0	7	23	681
07:45 AM	1	350	97	448	0	1	1	2	49	336	0	385	23	0	14	37	872
Total	2	1132	311	1445	0	1	5	6	115	890	1	1006	70	0	31	101	2558
08:00 AM	1	369	118	488	0	0	1	1	64	341	3	408	22	0	10	32	929
08:15 AM	0	381	109	490	0	0	0	0	59	338	0	397	34	0	11	45	932
08:30 AM	0	368	118	486	1	0	0	1	47	358	1	406	27	0	14	41	934
08:45 AM	2	400	108	510	1	1	0	2	39	293	0	332	21	4	7	32	876
Total	3	1518	453	1974	2	1	1	4	209	1330	4	1543	104	4	42	150	3671
Grand Total	5	2650	764	3419	2	2	6	10	324	2220	5	2549	174	4	73	251	6229
Apprch %	0.1	77.5	22.3		20	20	60		12.7	87.1	0.2		69.3	1.6	29.1		
Total %	0.1	42.5	12.3	54.9	0	0	0.1	0.2	5.2	35.6	0.1	40.9	2.8	0.1	1.2	4	

	Jamboree Road Southbound				Birch Street Westbound				Jamboree Road Northbound				Birch Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	1	369	118	488	0	0	1	1	64	341	3	408	22	0	10	32	929
08:15 AM	0	381	109	490	0	0	0	0	59	338	0	397	34	0	11	45	932
08:30 AM	0	368	118	486	1	0	0	1	47	358	1	406	27	0	14	41	934
08:45 AM	2	400	108	510	1	1	0	2	39	293	0	332	21	4	7	32	876
Total Volume	3	1518	453	1974	2	1	1	4	209	1330	4	1543	104	4	42	150	3671
% App. Total	0.2	76.9	22.9		50	25	25		13.5	86.2	0.3		69.3	2.7	28		
PHF	.375	.949	.960	.968	.500	.250	.250	.500	.818	.929	.333	.945	.765	.250	.750	.833	.983

Counts Unlimited Inc.
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City of Irvine
N/S: Jamboree Road
E/W: Fairchild Road/Driveway 3
Weather: Sunny

File Name : IRVJAFAAM
Site Code : 00000051
Start Date : 3/22/2011
Page No : 1

Groups Printed- Total Volume

	Jamboree Road Southbound				Fairchild Road Westbound				Jamboree Road Northbound				Driveway 3 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	37	173	0	210	1	0	28	29	0	116	6	122	1	0	1	2	363
07:15 AM	42	222	0	264	3	0	45	48	3	162	8	173	0	0	0	0	485
07:30 AM	64	230	1	295	4	1	55	60	1	239	17	257	0	0	2	2	614
07:45 AM	89	291	3	383	2	0	88	90	0	333	15	348	0	0	1	1	822
Total	232	916	4	1152	10	1	216	227	4	850	46	900	1	0	4	5	2284
08:00 AM	96	273	1	370	2	0	124	126	2	314	9	325	0	0	0	0	821
08:15 AM	72	331	3	406	1	0	107	108	2	307	23	332	1	0	0	1	847
08:30 AM	68	312	1	381	4	1	108	113	0	292	14	306	1	0	0	1	801
08:45 AM	85	317	1	403	2	0	71	73	2	290	17	309	0	0	0	0	785
Total	321	1233	6	1560	9	1	410	420	6	1203	63	1272	2	0	0	2	3254
Grand Total	553	2149	10	2712	19	2	626	647	10	2053	109	2172	3	0	4	7	5538
Apprch %	20.4	79.2	0.4		2.9	0.3	96.8		0.5	94.5	5		42.9	0	57.1		
Total %	10	38.8	0.2	49	0.3	0	11.3	11.7	0.2	37.1	2	39.2	0.1	0	0.1	0.1	

	Jamboree Road Southbound				Fairchild Road Westbound				Jamboree Road Northbound				Driveway 3 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	89	291	3	383	2	0	88	90	0	333	15	348	0	0	1	1	822
08:00 AM	96	273	1	370	2	0	124	126	2	314	9	325	0	0	0	0	821
08:15 AM	72	331	3	406	1	0	107	108	2	307	23	332	1	0	0	1	847
08:30 AM	68	312	1	381	4	1	108	113	0	292	14	306	1	0	0	1	801
Total Volume	325	1207	8	1540	9	1	427	437	4	1246	61	1311	2	0	1	3	3291
% App. Total	21.1	78.4	0.5		2.1	0.2	97.7		0.3	95	4.7		66.7	0	33.3		
PHF	.846	.912	.667	.948	.563	.250	.861	.867	.500	.935	.663	.942	.500	.000	.250	.750	.971

Counts Unlimited Inc.
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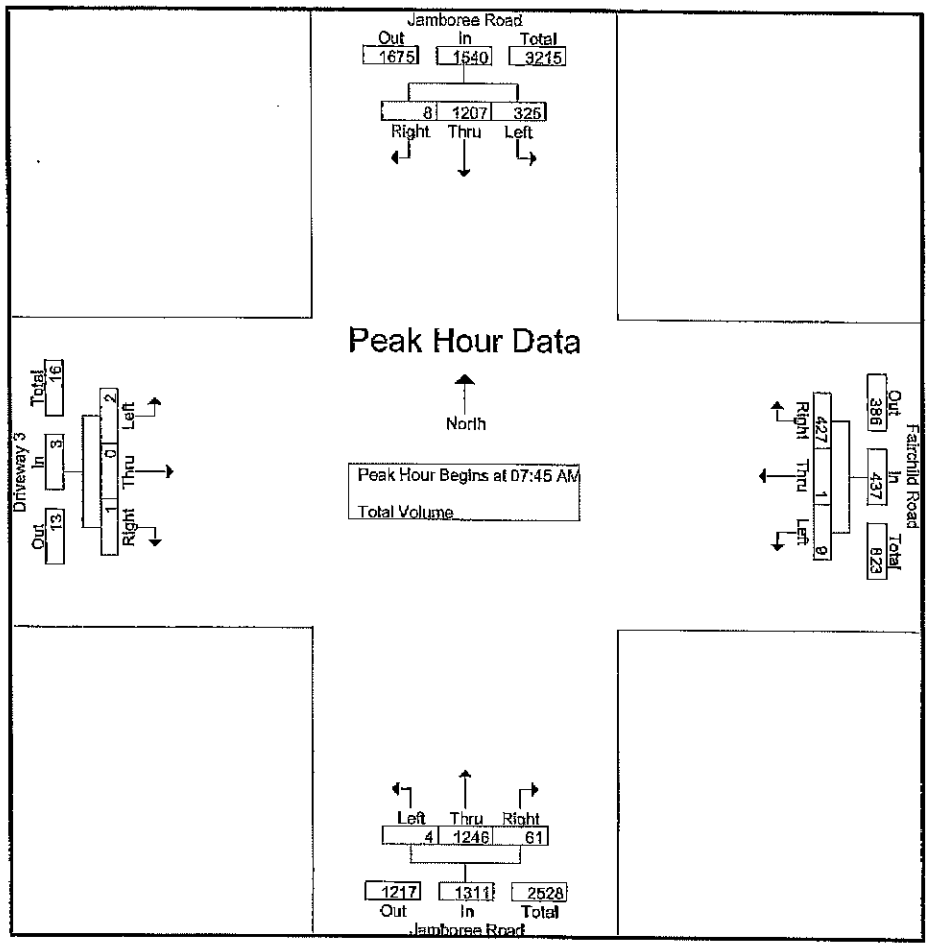
City of Irvine
N/S: Jamboree Road
E/W: Fairchild Road/Driveway 3
Weather: Sunny

File Name : IRVJAFAAM
Site Code : 00000051
Start Date : 3/22/2011
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	08:00 AM				07:45 AM				07:45 AM				07:00 AM			
+0 mins.	96	273	1	370	2	0	88	90	0	333	15	348	1	0	1	2
+15 mins.	72	331	3	406	2	0	124	126	2	314	9	325	0	0	0	0
+30 mins.	68	312	1	381	1	0	107	108	2	307	23	332	0	0	2	2
+45 mins.	85	317	1	403	4	1	108	113	0	292	14	306	0	0	1	1
Total Volume	321	1233	6	1560	9	1	427	437	4	1246	61	1311	1	0	4	5
% App. Total	20.6	79	0.4		2.1	0.2	97.7		0.3	95	4.7		20	0	80	
PHF	.836	.931	.500	.961	.563	.250	.861	.867	.500	.935	.663	.942	.250	.000	.500	.625

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irvine
N/S: Jamboree Road
E/W: Fairchild Road/Driveway 3
Weather: Sunny

File Name : IRVJAFAPM
Site Code : 00000051
Start Date : 3/22/2011
Page No : 1

Groups Printed- Total Volume

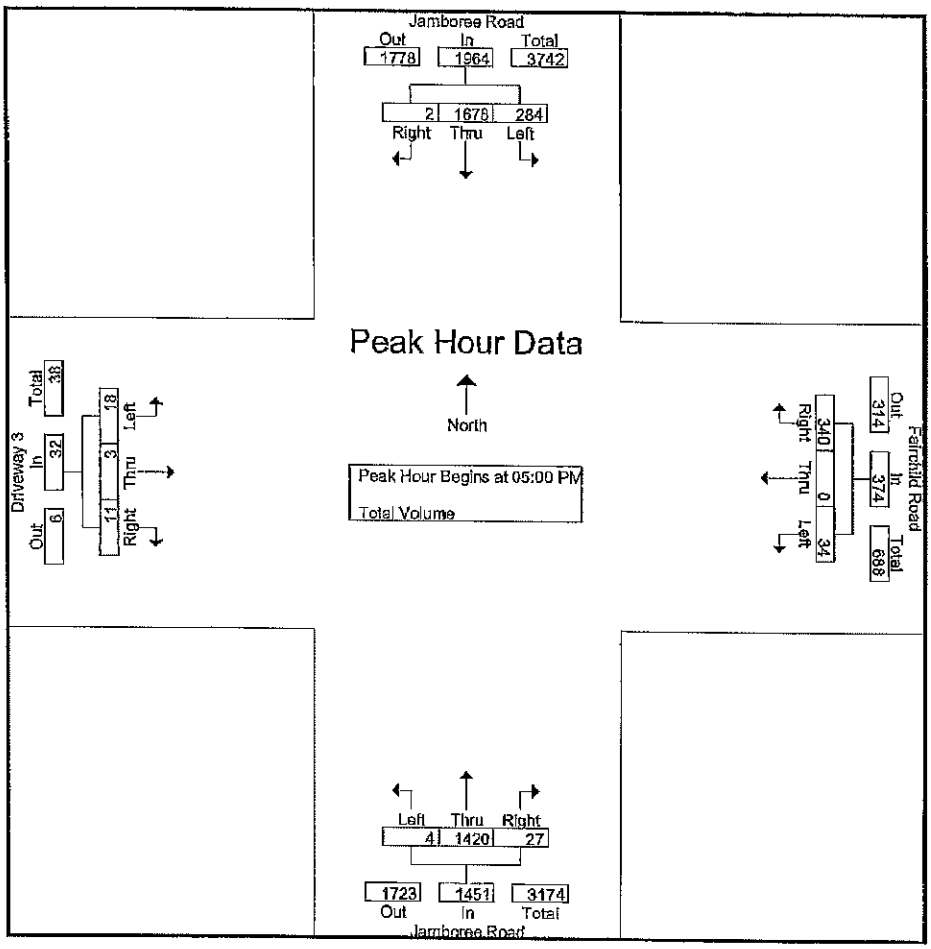
	Jamboree Road Southbound				Fairchild Road Westbound				Jamboree Road Northbound				Driveway 3 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	25	274	0	299	8	0	57	65	0	295	2	297	0	0	4	4	665
04:15 PM	26	288	2	316	6	0	78	84	1	275	4	280	4	0	1	5	685
04:30 PM	27	313	1	341	12	0	58	70	2	284	4	290	1	1	5	7	708
04:45 PM	58	367	1	426	3	0	61	64	1	326	7	334	4	0	0	4	828
Total	136	1242	4	1382	29	0	254	283	4	1180	17	1201	9	1	10	20	2886
05:00 PM	72	378	0	450	11	0	93	104	0	378	10	388	3	1	1	5	947
05:15 PM	89	471	0	560	6	0	115	121	1	374	9	384	7	0	0	7	1072
05:30 PM	52	392	2	446	11	0	75	86	2	346	5	353	4	1	7	12	897
05:45 PM	71	437	0	508	6	0	57	63	1	322	3	326	4	1	3	8	905
Total	284	1678	2	1964	34	0	340	374	4	1420	27	1451	18	3	11	32	3821
Grand Total	420	2920	6	3346	63	0	594	657	8	2600	44	2652	27	4	21	52	6707
Apprch %	12.6	87.3	0.2		9.6	0	90.4		0.3	98	1.7		51.9	7.7	40.4		
Total %	6.3	43.5	0.1	49.9	0.9	0	8.9	9.8	0.1	38.8	0.7	39.5	0.4	0.1	0.3	0.8	

	Jamboree Road Southbound				Fairchild Road Westbound				Jamboree Road Northbound				Driveway 3 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	72	378	0	450	11	0	93	104	0	378	10	388	3	1	1	5	947
05:15 PM	89	471	0	560	6	0	115	121	1	374	9	384	7	0	0	7	1072
05:30 PM	52	392	2	446	11	0	75	86	2	346	5	353	4	1	7	12	897
05:45 PM	71	437	0	508	6	0	57	63	1	322	3	326	4	1	3	8	905
Total Volume	284	1678	2	1964	34	0	340	374	4	1420	27	1451	18	3	11	32	3821
% App. Total	14.5	85.4	0.1		9.1	0	90.9		0.3	97.9	1.9		56.2	9.4	34.4		
PHF	.798	.891	.250	.877	.773	.000	.739	.773	.500	.939	.675	.935	.643	.750	.393	.667	.891

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irvine
N/S: Jamboree Road
E/W: Fairchild Road/Driveway 3
Weather: Sunny

File Name : IRVJAFAPM
Site Code : 00000051
Start Date : 3/22/2011
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	05:00 PM				04:45 PM				04:45 PM				05:00 PM			
+0 mins.	72	378	0	450	3	0	61	64	1	326	7	334	3	1	1	5
+15 mins.	89	471	0	560	11	0	93	104	0	378	10	388	7	0	0	7
+30 mins.	52	392	2	446	6	0	115	121	1	374	9	384	4	1	7	12
+45 mins.	71	437	0	508	11	0	75	86	2	346	5	353	4	1	3	8
Total Volume	284	1678	2	1964	31	0	344	375	4	1424	31	1459	18	3	11	32
% App. Total	14.5	85.4	0.1		8.3	0	91.7		0.3	97.6	2.1		56.2	9.4	34.4	
PHF	.798	.891	.250	.877	.705	.000	.748	.775	.500	.942	.775	.940	.643	.750	.393	.667

Intersection Turning Movement

Prepared by:

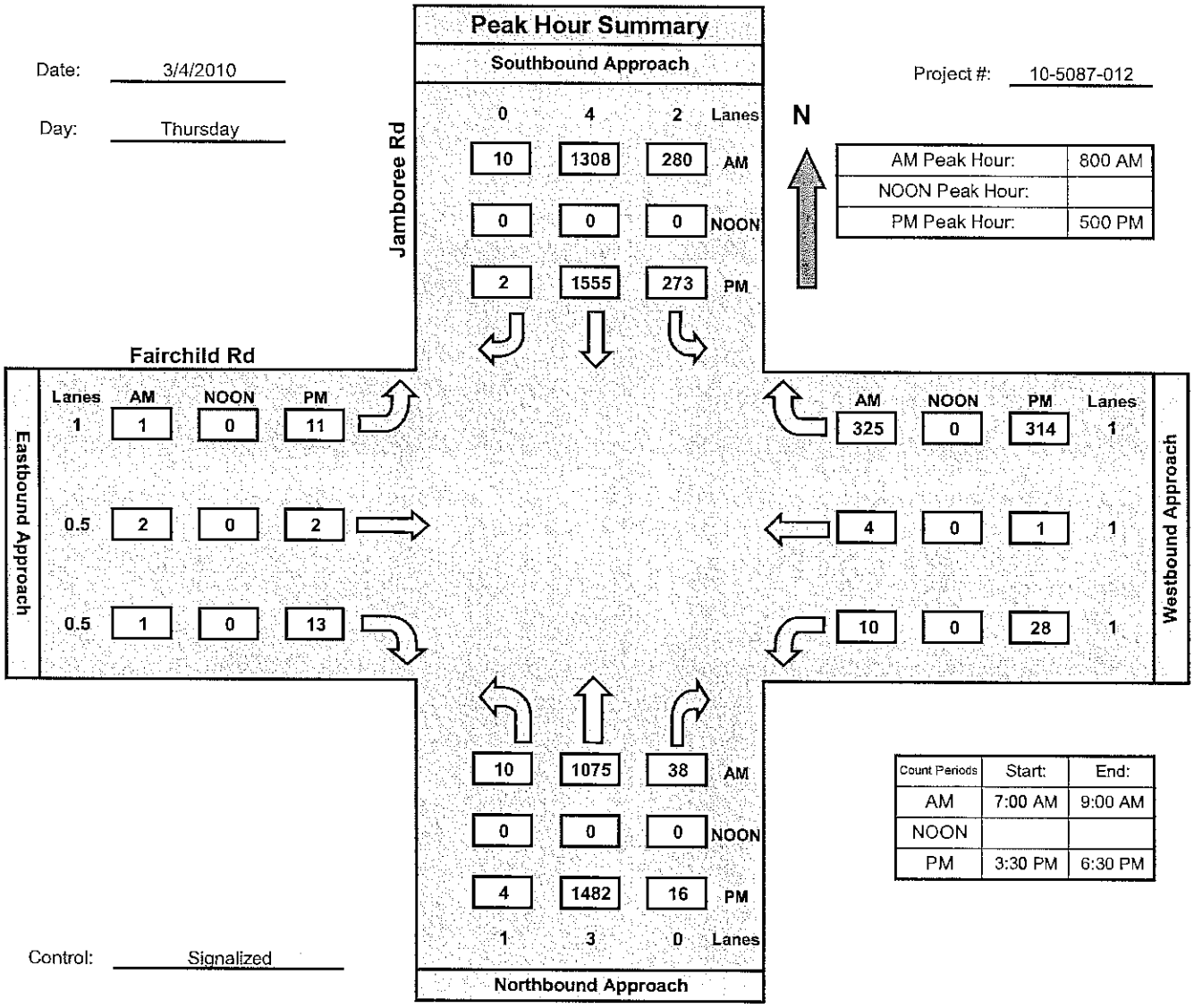
National Data & Surveying Services

Jamboree Rd and Fairchild Rd , City of Irvine

Date: 3/4/2010

Day: Thursday

Project #: 10-5087-012



Count Periods	Start:	End:
AM	7:00 AM	9:00 AM
NOON		
PM	3:30 PM	6:30 PM

Control: Signalized

Intersecti use counts from 3/22/2011 vement

National I ervices

N-S STREET: Jamboree Rd DATE: 03/04/2010 LOCATION: City of Irvine

E-W STREET: Fairchild Rd DAY: THURSDAY PROJECT# 10-5087-012

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	2	4	0	1	0.5	0.5	1	1	1	
7:00 AM	0	92	3	36	153	1	1	0	1	0	0	31	318
7:15 AM	2	153	7	41	240	1	0	0	1	0	0	37	482
7:30 AM	3	204	8	58	232	2	0	0	0	1	0	52	560
7:45 AM	0	259	10	85	306	1	0	0	0	2	0	99	762
8:00 AM	1	231	4	69	315	4	1	1	0	3	0	78	707
8:15 AM	0	296	12	86	309	1	0	0	0	3	2	85	794
8:30 AM	6	283	7	59	349	2	0	0	0	2	2	84	794
8:45 AM	3	265	15	66	335	3	0	1	1	2	0	78	769
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	15	1783	66	500	2239	15	2	2	3	13	4	544	5186
PEAK VOLUMES =	10	1075	38	280	1308	10	1	2	1	10	4	325	3064
PEAK HR. FACTOR:		0.912			0.974			0.500			0.942		0.965

AM Peak Hr Begins at: 800 AM

CONTROL: Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

N-S STREET: Jamboree Rd DATE: 03/04/2010 LOCATION: City of Irvine

E-W STREET: Fairchild Rd DAY: THURSDAY PROJECT# 10-5087-012

	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	2	4	0	1	0.5	0.5	1	1	1	
3:30 PM	0	246	2	13	268	3	1	0	1	4	0	31	569
3:45 PM	3	268	3	28	300	0	1	1	4	3	1	38	650
4:00 PM	1	300	2	26	286	0	5	0	2	3	0	64	689
4:15 PM	1	301	2	29	310	0	2	0	2	1	0	48	696
4:30 PM	1	268	2	39	314	0	2	0	2	7	0	61	696
4:45 PM	3	309	4	53	314	1	3	3	5	5	0	51	751
5:00 PM	0	380	2	61	372	0	3	1	2	7	0	103	931
5:15 PM	3	426	4	88	395	1	3	1	4	5	1	78	1009
5:30 PM	1	353	4	63	388	1	4	0	2	8	0	74	898
5:45 PM	0	323	6	61	400	0	1	0	5	8	0	59	863
6:00 PM	0	291	5	40	332	1	8	0	2	7	0	59	745
6:15 PM	2	353	5	43	283	0	2	1	5	2	0	66	762
TOTAL VOLUMES =	NL 15	NT 3818	NR 41	SL 544	ST 3962	SR 7	EL 35	ET 7	ER 36	WL 60	WT 2	WR 732	TOTAL 9259

PM Peak Hr Begins at: 500 PM

PEAK VOLUMES =	4	1482	16	273	1555	2	11	2	13	28	1	314	3701
PEAK HR. FACTOR:		0.867			0.945			0.813			0.780		0.917

CONTROL: Signalized

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: N. BRISTOL STREET

File Name : H1104043
Site Code : 00004632
Start Date : 5/19/2011
Page No : 1

Groups Printed- Turning Movements

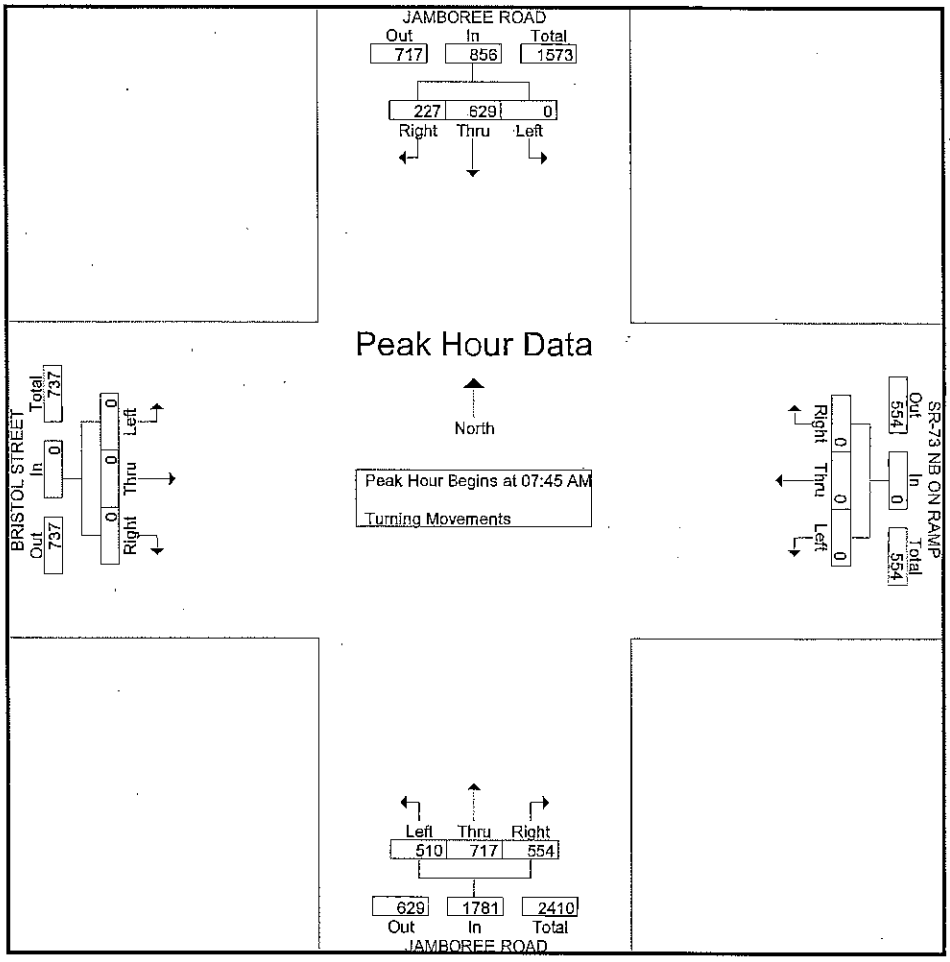
	JAMBOREE ROAD Southbound			SR-73 NB ON RAMP Westbound			JAMBOREE ROAD Northbound			BRISTOL STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	31	121	0	0	0	0	97	151	91	0	0	0	491
07:15 AM	40	108	0	0	0	0	104	177	111	0	0	0	540
07:30 AM	45	141	0	0	0	0	127	186	121	0	0	0	620
07:45 AM	57	149	0	0	0	0	145	169	137	0	0	0	657
Total	173	519	0	0	0	0	473	683	460	0	0	0	2308
08:00 AM	53	151	0	0	0	0	136	189	129	0	0	0	658
08:15 AM	56	161	0	0	0	0	141	173	121	0	0	0	652
08:30 AM	61	168	0	0	0	0	132	186	123	0	0	0	670
08:45 AM	57	156	0	0	0	0	125	177	121	0	0	0	636
Total	227	636	0	0	0	0	534	725	494	0	0	0	2616
*** BREAK ***													
04:30 PM	131	167	0	0	0	0	214	222	186	0	0	0	920
04:45 PM	124	179	0	0	0	0	203	237	194	0	0	0	937
Total	255	346	0	0	0	0	417	459	380	0	0	0	1857
05:00 PM	119	204	0	0	0	0	214	244	210	0	0	0	991
05:15 PM	137	214	0	0	0	0	213	231	204	0	0	0	999
05:30 PM	121	222	0	0	0	0	206	229	210	0	0	0	988
05:45 PM	124	187	0	0	0	0	197	221	186	0	0	0	915
Total	501	827	0	0	0	0	830	925	810	0	0	0	3893
06:00 PM	140	201	0	0	0	0	186	230	176	0	0	0	933
06:15 PM	127	186	0	0	0	0	176	219	164	0	0	0	872
Grand Total	1423	2715	0	0	0	0	2616	3241	2484	0	0	0	12479
Apprch %	34.4	65.6	0	0	0	0	31.4	38.9	29.8	0	0	0	
Total %	11.4	21.8	0	0	0	0	21	26	19.9	0	0	0	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: N. BRISTOL STREET

File Name : H1104043
Site Code : 00004632
Start Date : 5/19/2011
Page No : 2

	JAMBOREE ROAD Southbound				SR-73 NB ON RAMP Westbound				JAMBOREE ROAD Northbound				BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	57	149	0	206	0	0	0	0	**145**	169	**137**	451	0	0	0	0	657
08:00 AM	53	151	0	204	0	0	0	0	136	**189**	129	**454**	0	0	0	0	658
08:15 AM	56	161	0	217	0	0	0	0	141	173	121	435	0	0	0	0	652
08:30 AM	**61**	**168**	0	**229**	0	0	0	0	132	186	123	441	0	0	0	0	**670**
Total Volume	227	629	0	856	0	0	0	0	554	717	510	1781	0	0	0	0	2637
% App. Total	26.5	73.5	0		0	0	0		31.1	40.3	28.6		0	0	0		
PHF	.930	.936	.000	.934	.000	.000	.000	.000	.955	.948	.931	.981	.000	.000	.000	.000	.984

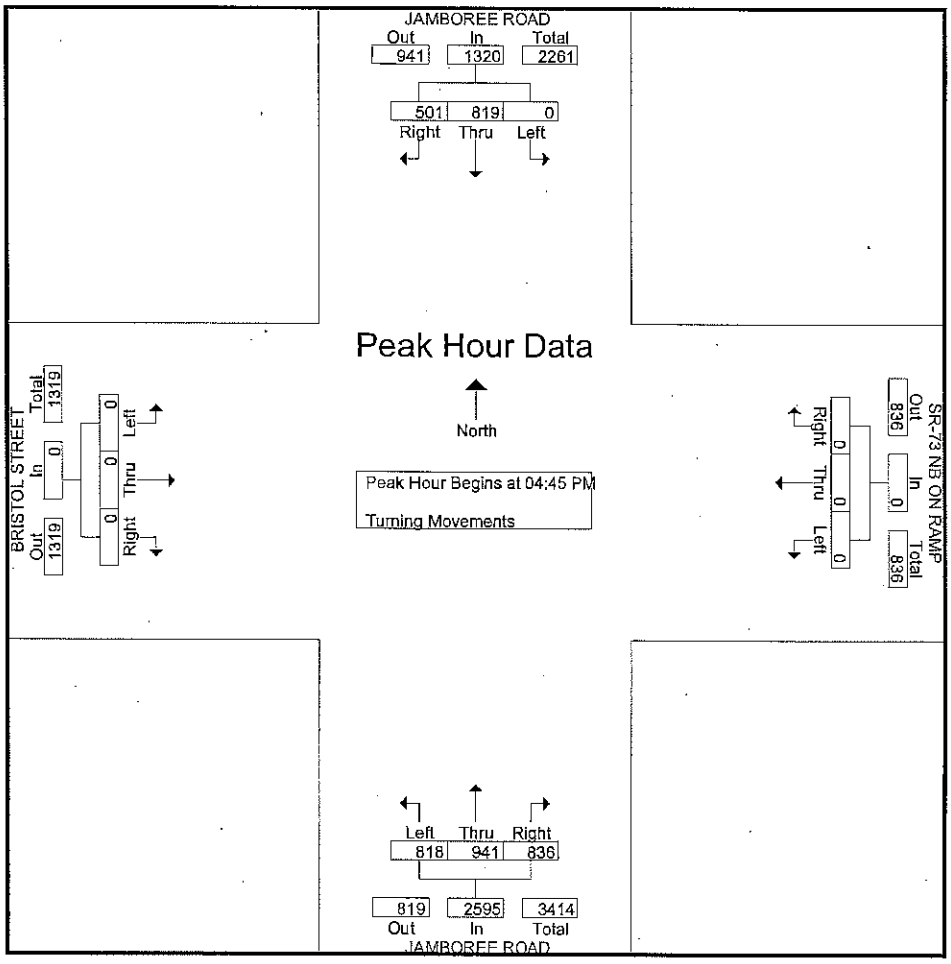


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: N. BRISTOL STREET

File Name : H1104043
Site Code : 00004632
Start Date : 5/19/2011
Page No : 3

	JAMBOREE ROAD Southbound				SR-73 NB ON RAMP Westbound				JAMBOREE ROAD Northbound				BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	124	179	0	303	0	0	0	0	203	237	194	634	0	0	0	0	937
05:00 PM	119	204	0	323	0	0	0	0	**214**	**244**	**210**	**668**	0	0	0	0	991
05:15 PM	**137**	214	0	**351**	0	0	0	0	213	231	204	648	0	0	0	0	**999**
05:30 PM	121	**222**	0	343	0	0	0	0	206	229	210	645	0	0	0	0	988
Total Volume	501	819	0	1320	0	0	0	0	836	941	818	2595	0	0	0	0	3915
% App. Total	38	62	0		0	0	0		32.2	36.3	31.5		0	0	0		
PHF	.914	.922	.000	.940	.000	.000	.000	.000	.977	.964	.974	.971	.000	.000	.000	.000	.980



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: S. BRISTOL STREET

File Name : H1104044
Site Code : 00005724
Start Date : 5/19/2011
Page No : 1

Groups Printed- Turning Movements

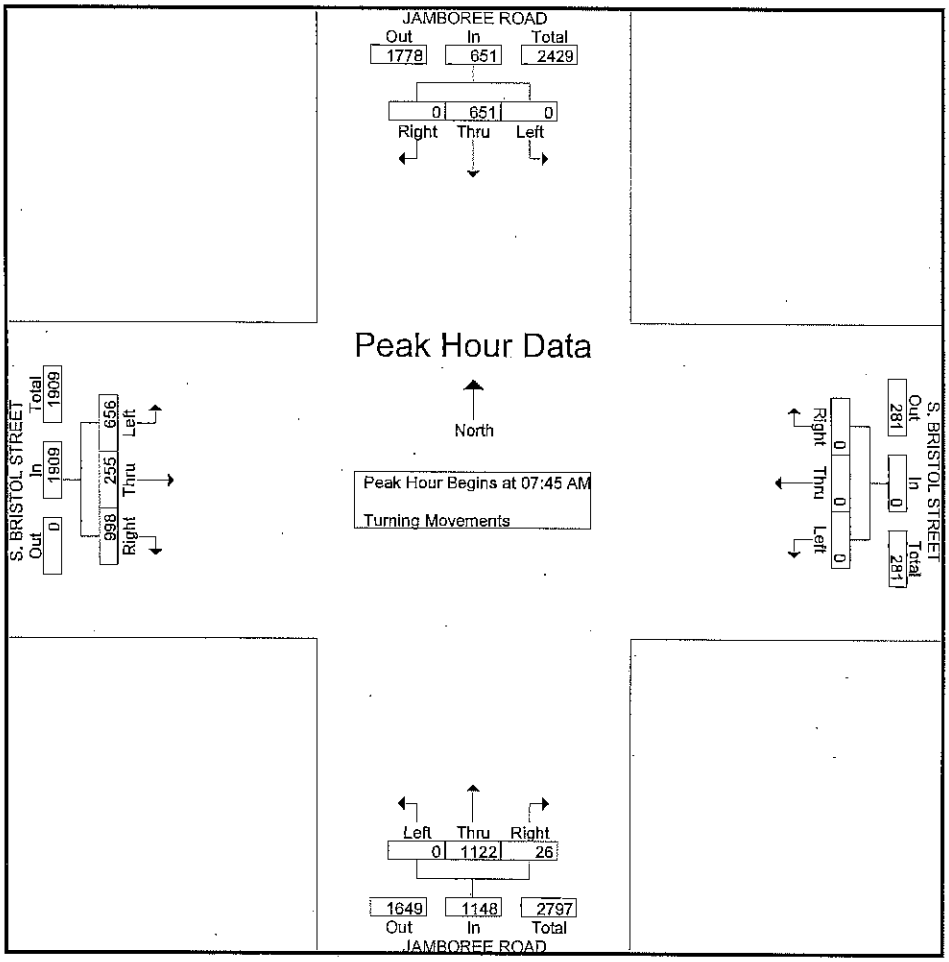
	JAMBOREE ROAD Southbound			S. BRISTOL STREET Westbound			JAMBOREE ROAD Northbound			S. BRISTOL STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	0	126	0	0	0	0	4	213	0	226	36	129	734
07:15 AM	0	118	0	0	0	0	2	277	0	230	51	137	815
07:30 AM	0	148	0	0	0	0	3	287	0	249	64	157	908
07:45 AM	0	151	0	0	0	0	5	297	0	261	61	168	943
Total	0	543	0	0	0	0	14	1074	0	966	212	591	3400
08:00 AM	0	164	0	0	0	0	6	281	0	238	59	152	900
08:15 AM	0	165	0	0	0	0	7	277	0	251	63	164	927
08:30 AM	0	171	0	0	0	0	8	267	0	248	72	172	938
08:45 AM	0	166	0	0	0	0	7	271	0	231	60	153	888
Total	0	666	0	0	0	0	28	1096	0	968	254	641	3653
*** BREAK ***													
04:30 PM	0	172	0	0	0	0	21	461	0	189	104	173	1120
04:45 PM	0	186	0	0	0	0	23	449	0	204	119	189	1170
Total	0	358	0	0	0	0	44	910	0	393	223	362	2290
05:00 PM	0	202	0	0	0	0	22	470	0	219	121	201	1235
05:15 PM	0	212	0	0	0	0	23	458	0	228	129	194	1244
05:30 PM	0	221	0	0	0	0	30	451	0	231	131	191	1255
05:45 PM	0	261	0	0	0	0	31	437	0	219	121	186	1255
Total	0	896	0	0	0	0	106	1816	0	897	502	772	4989
06:00 PM	0	197	0	0	0	0	24	421	0	222	119	191	1174
06:15 PM	0	194	0	0	0	0	21	401	0	214	107	164	1101
Grand Total	0	2854	0	0	0	0	237	5718	0	3660	1417	2721	16607
Apprch %	0	100	0	0	0	0	4	96	0	46.9	18.2	34.9	
Total %	0	17.2	0	0	0	0	1.4	34.4	0	22	8.5	16.4	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: S. BRISTOL STREET

File Name : H1104044
Site Code : 00005724
Start Date : 5/19/2011
Page No : 2

	JAMBOREE ROAD Southbound				S. BRISTOL STREET Westbound				JAMBOREE ROAD Northbound				S. BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	151	0	151	0	0	0	0	5	**297**	0	**302**	**261**	61	168	490	**943**
08:00 AM	0	164	0	164	0	0	0	0	6	281	0	287	238	59	152	449	900
08:15 AM	0	165	0	165	0	0	0	0	7	277	0	284	251	63	164	478	927
08:30 AM	0	**171**	0	**171**	0	0	0	0	8	267	0	275	248	**72**	**172**	**492**	938
Total Volume	0	651	0	651	0	0	0	0	26	1122	0	1148	998	255	656	1909	3708
% App. Total	0	100	0		0	0	0		2.3	97.7	0		52.3	13.4	34.4		
PHF	.000	.952	.000	.952	.000	.000	.000	.000	.813	.944	.000	.950	.956	.885	.953	.970	.983

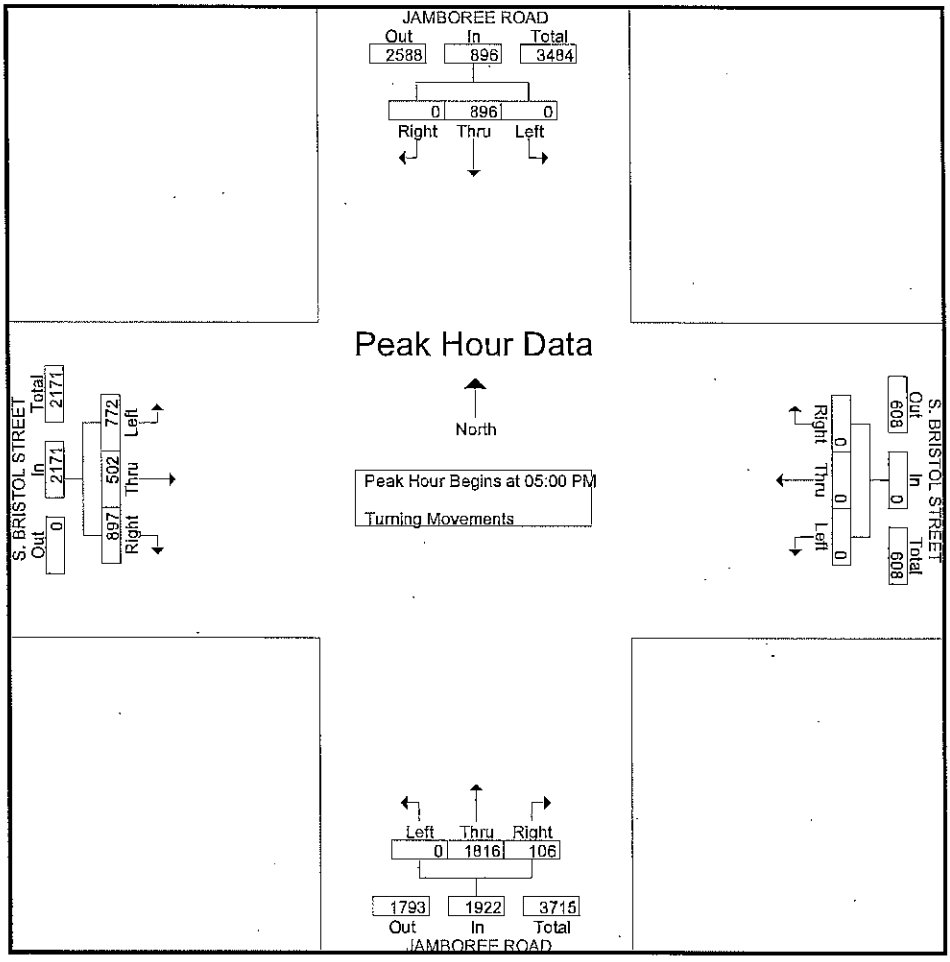


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
-S Direction: JAMBOREE ROAD
E-W Direction: S. BRISTOL STREET

File Name : H1104044
Site Code : 00005724
Start Date : 5/19/2011
Page No : 3

	JAMBOREE ROAD Southbound				S. BRISTOL STREET Westbound				JAMBOREE ROAD Northbound				S. BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	202	0	202	0	0	0	0	22	**470**	0	**492**	219	121	**201**	541	1235
05:15 PM	0	212	0	212	0	0	0	0	23	458	0	481	228	129	194	551	1244
05:30 PM	0	221	0	221	0	0	0	0	30	451	0	481	**231**	**131**	191	**553**	**1255**
05:45 PM	0	**261**	0	**261**	0	0	0	0	**31**	437	0	468	219	121	186	526	1255
Total Volume	0	896	0	896	0	0	0	0	106	1816	0	1922	897	502	772	2171	4989
% App. Total	0	100	0		0	0	0		5.5	94.5	0		41.3	23.1	35.6		
PHF	.000	.858	.000	.858	.000	.000	.000	.000	.855	.966	.000	.977	.971	.958	.960	.981	.994



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
.N-S Direction: JAMBOREE ROAD
E-W Direction: BAYVIEW WAY

File Name : H1104041
Site Code : 00005059
Start Date : 5/12/2011
Page No : 1

Groups Printed- Turning Movements

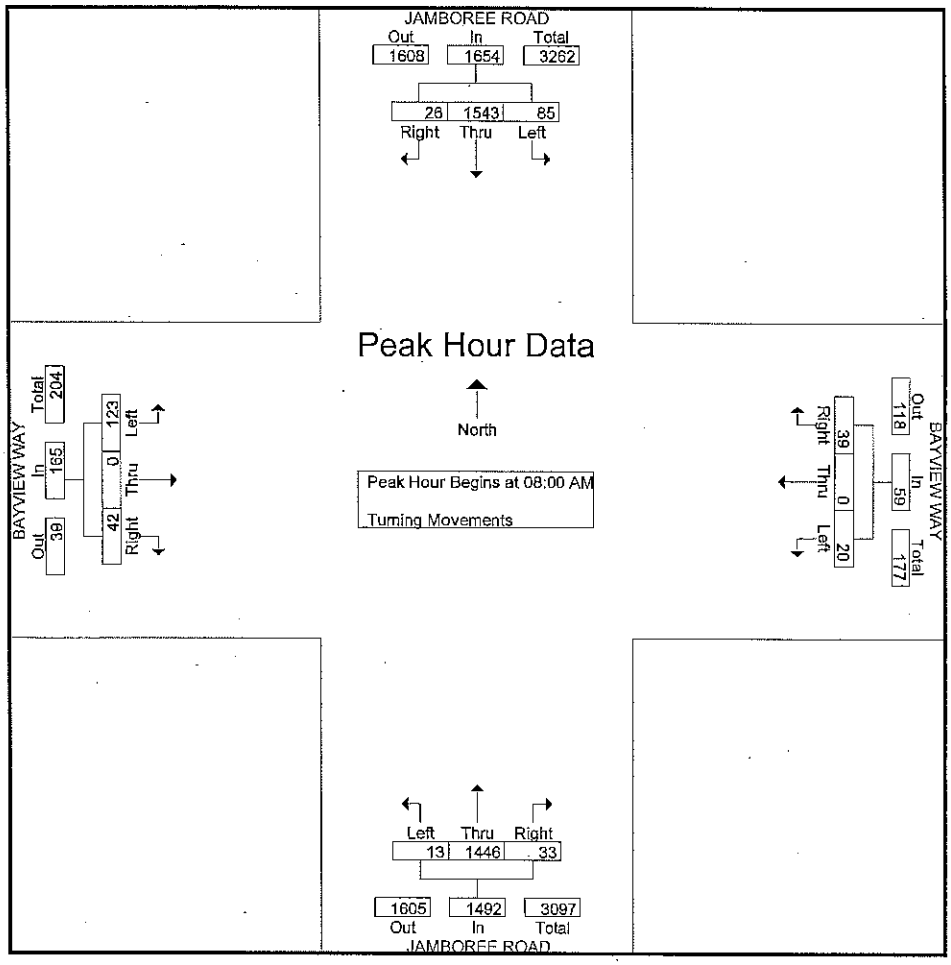
	JAMBOREE ROAD Southbound			BAYVIEW WAY Westbound			JAMBOREE ROAD Northbound			BAYVIEW WAY Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	2	287	2	1	0	0	2	268	1	1	0	9	573
07:15 AM	3	339	15	2	0	0	3	294	2	2	0	12	672
07:30 AM	7	387	18	3	0	1	5	311	1	5	0	18	756
07:45 AM	8	367	19	3	0	2	4	321	2	10	0	27	763
Total	20	1380	54	9	0	3	14	1194	6	18	0	66	2764
08:00 AM	4	388	19	8	0	3	6	337	1	8	0	26	800
08:15 AM	8	384	21	10	0	4	8	351	2	11	0	35	834
08:30 AM	5	389	22	11	0	6	9	381	4	12	0	35	874
08:45 AM	9	382	23	10	0	7	10	377	6	11	0	27	862
Total	26	1543	85	39	0	20	33	1446	13	42	0	123	3370
*** BREAK ***													
04:30 PM	15	414	19	20	0	4	6	380	7	6	0	7	878
04:45 PM	13	430	26	17	0	5	7	391	8	5	0	9	911
Total	28	844	45	37	0	9	13	771	15	11	0	16	1789
05:00 PM	17	424	21	20	0	7	8	412	10	8	0	14	941
05:15 PM	15	422	23	21	0	10	10	423	12	6	0	14	956
05:30 PM	14	426	20	24	0	8	7	406	11	9	0	13	938
05:45 PM	16	423	20	20	0	11	9	413	12	6	0	12	942
Total	62	1695	84	85	0	36	34	1654	45	29	0	53	3777
06:00 PM	13	428	19	21	0	10	8	410	13	6	0	15	943
06:15 PM	14	438	19	18	0	13	6	404	12	6	0	13	943
Grand Total	163	6328	306	209	0	91	108	5879	104	112	0	286	13586
Apprch %	2.4	93.1	4.5	69.7	0	30.3	1.8	96.5	1.7	28.1	0	71.9	
Total %	1.2	46.6	2.3	1.5	0	0.7	0.8	43.3	0.8	0.8	0	2.1	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
.N-S Direction: JAMBOREE ROAD
E-W Direction: BAYVIEW WAY

File Name : H1104041
Site Code : 00005059
Start Date : 5/12/2011
Page No : 2

	JAMBOREE ROAD Southbound				BAYVIEW WAY Westbound				JAMBOREE ROAD Northbound				BAYVIEW WAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	4	388	19	411	8	0	3	11	6	337	1	344	8	0	26	34	800
08:15 AM	8	384	21	413	10	0	4	14	8	351	2	361	11	0	**35**	46	834
08:30 AM	5	**389**	22	**416**	**11**	0	6	**17**	9	**381**	4	**394**	**12**	0	35	**47**	**874**
08:45 AM	**9**	382	**23**	414	10	0	7	17	**10**	377	**6**	393	11	0	27	38	862
Total Volume	26	1543	85	1654	39	0	20	59	33	1446	13	1492	42	0	123	165	3370
% App. Total	1.6	93.3	5.1		66.1	0	33.9		2.2	96.9	0.9		25.5	0	74.5		
PHF	.722	.992	.924	.994	.886	.000	.714	.868	.825	.949	.542	.947	.875	.000	.879	.878	.964

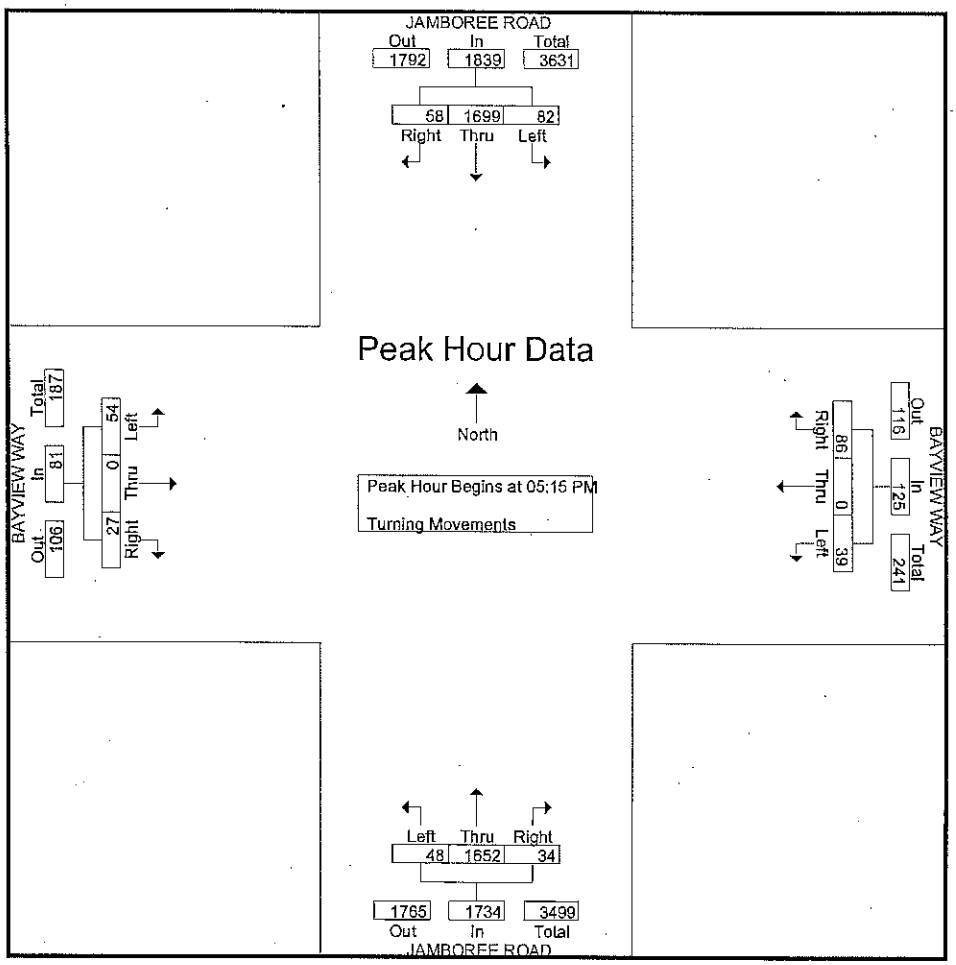


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: BAYVIEW WAY

File Name : H1104041
Site Code : 00005059
Start Date : 5/12/2011
Page No : 3

	JAMBOREE ROAD Southbound				BAYVIEW WAY Westbound				JAMBOREE ROAD Northbound				BAYVIEW WAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	15	422	**23**	**460**	21	0	10	31	**10**	**423**	12	**445**	6	0	14	20	**956**
05:30 PM	14	426	20	460	**24**	0	8	**32**	7	406	11	424	**9**	0	13	**22**	938
05:45 PM	**16**	423	20	459	20	0	**11**	31	9	413	12	434	6	0	12	18	942
06:00 PM	13	**428**	19	460	21	0	10	31	8	410	**13**	431	6	0	**15**	21	943
Total Volume	58	1699	82	1839	86	0	39	125	34	1652	48	1734	27	0	54	81	3779
% App. Total	3.2	92.4	4.5		68.8	0	31.2		2	95.3	2.8		33.3	0	66.7		
PHF	.906	.992	.891	.999	.896	.000	.886	.977	.850	.976	.923	.974	.750	.000	.900	.920	.988



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: UNIVERSITY / EASTBLUFF

File Name : h1104051
Site Code : 00005694
Start Date : 5/11/2011
Page No : 1

Groups Printed- Turning Movements

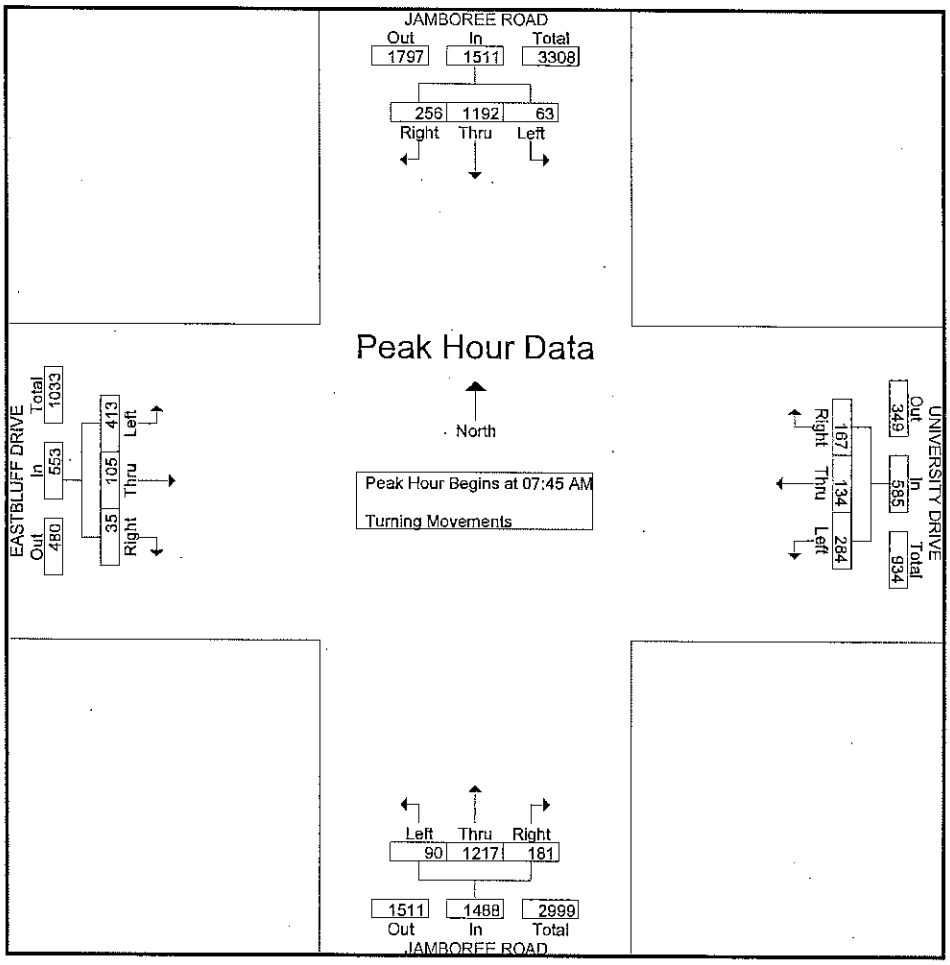
	JAMBOREE ROAD Southbound			UNIVERSITY DRIVE Westbound			JAMBOREE ROAD Northbound			EASTBLUFF DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	33	223	13	16	10	42	19	203	3	0	8	56	626
07:15 AM	54	249	9	25	11	47	17	192	2	3	9	49	667
07:30 AM	104	230	15	36	52	61	24	282	30	2	18	77	931
07:45 AM	84	253	12	35	69	74	50	341	60	24	34	114	1150
Total	275	955	49	112	142	224	110	1018	95	29	69	296	3374
08:00 AM	41	315	17	41	15	74	53	329	14	8	27	137	1071
08:15 AM	58	320	21	40	23	65	36	280	4	1	26	79	953
08:30 AM	73	304	13	51	27	71	42	267	12	2	18	83	963
08:45 AM	46	343	21	32	11	56	33	268	2	3	23	107	945
Total	218	1282	72	164	76	266	164	1144	32	14	94	406	3932
*** BREAK ***													
04:30 PM	90	318	19	14	34	32	52	311	14	0	26	54	964
04:45 PM	71	320	26	12	24	39	37	330	11	4	20	45	939
Total	161	638	45	26	58	71	89	641	25	4	46	99	1903
05:00 PM	70	275	30	16	23	52	56	324	5	1	14	40	906
05:15 PM	77	311	38	25	28	61	74	411	12	1	20	51	1109
05:30 PM	90	342	34	24	48	65	47	349	8	6	33	58	1104
05:45 PM	93	381	39	21	36	60	55	358	11	1	13	53	1121
Total	330	1309	141	86	135	238	232	1442	36	9	80	202	4240
06:00 PM	94	359	39	18	30	66	64	315	6	4	20	54	1069
06:15 PM	83	304	36	30	20	49	62	262	5	4	23	50	928
Grand Total	1161	4847	382	436	461	914	721	4822	199	64	332	1107	15446
Apprch %	18.2	75.9	6	24.1	25.5	50.5	12.6	84	3.5	4.3	22.1	73.7	
Total %	7.5	31.4	2.5	2.8	3	5.9	4.7	31.2	1.3	0.4	2.1	7.2	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: JAMBOREE ROAD
E-W Direction: UNIVERSITY / EASTBLUFF

File Name : h1104051
Site Code : 00005694
Start Date : 5/11/2011
Page No : 2

	JAMBOREE ROAD Southbound				UNIVERSITY DRIVE Westbound				JAMBOREE ROAD Northbound				EASTBLUFF DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**84**	253	12	349	35	**69**	**74**	**178**	50	**341**	**60**	**451**	**24**	**34**	114	**172**	**1150**
08:00 AM	41	315	17	373	41	15	74	130	**53**	329	14	396	8	27	**137**	172	1071
08:15 AM	58	**320**	**21**	**399**	40	23	65	128	36	280	4	320	1	26	79	106	953
08:30 AM	73	304	13	390	**51**	27	71	149	42	267	12	321	2	18	83	103	963
Total Volume	256	1192	63	1511	167	134	284	585	181	1217	90	1488	35	105	413	553	4137
% App. Total	16.9	78.9	4.2		28.5	22.9	48.5		12.2	81.8	6		6.3	19	74.7		
PHF	.762	.931	.750	.947	.819	.486	.959	.822	.854	.892	.375	.825	.365	.772	.754	.804	.899

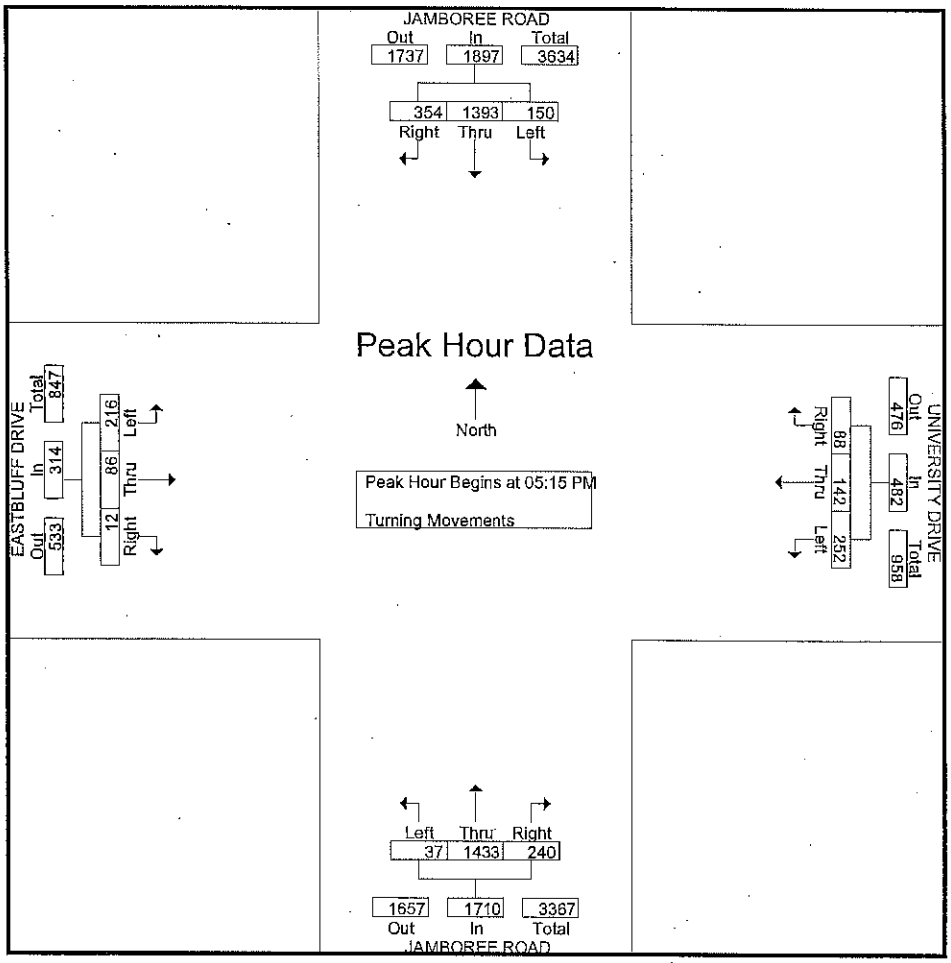


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
.v-S Direction: JAMBOREE ROAD
E-W Direction: UNIVERSITY / EASTBLUFF

File Name : h1104051
Site Code : 00005694
Start Date : 5/11/2011
Page No : 3

	JAMBOREE ROAD Southbound				UNIVERSITY DRIVE Westbound				JAMBOREE ROAD Northbound				EASTBLUFF DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	77	311	38	426	**25**	28	61	114	**74**	**411**	**12**	**497**	**1**	20	51	72	1109
05:30 PM	90	342	34	466	24	**48**	65	**137**	47	349	8	404	**6**	**33**	**58**	**97**	1104
05:45 PM	93	**381**	**39**	**513**	21	36	60	117	55	358	11	424	**1**	13	53	67	**1121**
06:00 PM	**94**	359	39	492	18	30	**66**	114	64	315	6	385	4	20	54	78	1069
Total Volume	354	1393	150	1897	88	142	252	482	240	1433	37	1710	12	86	216	314	4403
% App. Total	18.7	73.4	7.9		18.3	29.5	52.3		14	83.8	2.2		3.8	27.4	68.8		
PHF	.941	.914	.962	.924	.880	.740	.955	.880	.811	.872	.771	.860	.500	.652	.931	.809	.982



ITM Peak Hour Summary

Prepared by:

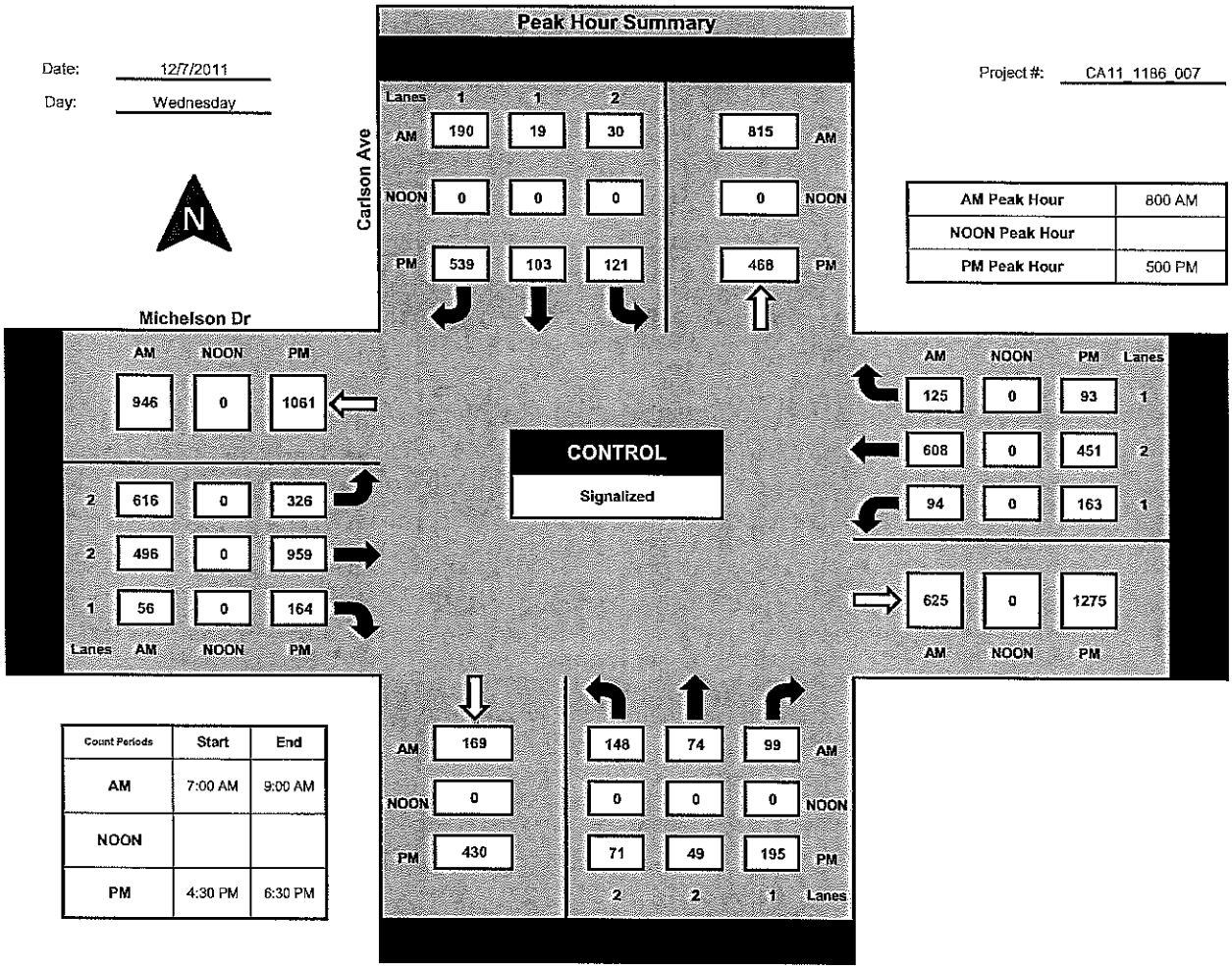
National Data & Surveying Services

Carlson Ave and Michelson Dr , City of Irvine

Date: 12/7/2011

Day: Wednesday

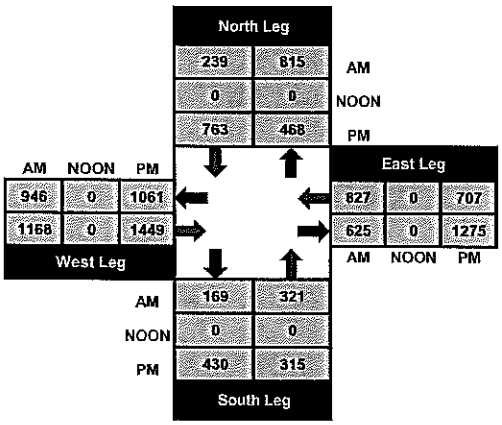
Project #: CA11_1186_007



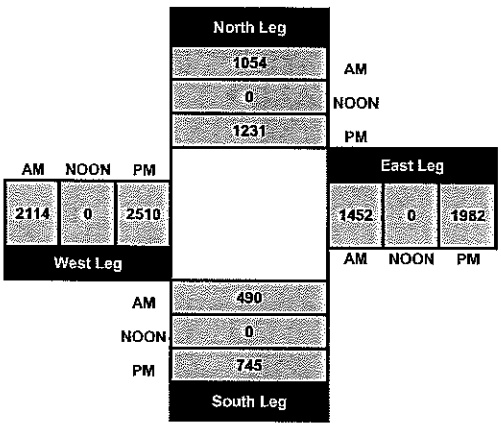
AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_007

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Carlson Ave			Carlson Ave			Michelson Dr			Michelson Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 2	NT 2	NR 1	SL 2	ST 1	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
7:00 AM	16	9	10	4	1	25	69	82	8	4	55	9	292
7:15 AM	28	7	11	2	3	31	110	91	9	10	57	10	369
7:30 AM	38	14	15	11	5	40	97	94	22	16	93	6	451
7:45 AM	45	14	20	6	5	43	170	116	16	15	136	20	606
8:00 AM	29	15	26	4	1	46	140	108	16	29	161	31	606
8:15 AM	55	22	23	5	4	50	170	129	10	23	157	38	686
8:30 AM	38	14	25	12	6	55	129	121	17	24	153	28	622
8:45 AM	26	23	25	9	8	39	177	138	13	18	137	28	641
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	275	118	155	53	33	329	1062	879	111	139	949	170	4273
APPROACH %'s :	50.18%	21.53%	28.28%	12.77%	7.95%	79.28%	51.75%	42.84%	5.41%	11.05%	75.44%	13.51%	
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	148	74	99	30	19	190	616	496	56	94	608	125	2555
PEAK HR FACTOR :		0.803			0.818			0.890			0.936		0.931

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_007

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Carlson Ave			Carlson Ave			Michelson Dr			Michelson Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 2	NT 2	NR 1	SL 2	ST 1	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
4:30 PM	16	7	27	18	17	98	63	159	33	34	139	24	635
4:45 PM	16	9	30	18	13	102	78	141	29	22	117	19	594
5:00 PM	18	10	40	30	26	143	80	240	48	40	139	16	830
5:15 PM	20	10	51	31	29	114	69	236	36	35	90	19	740
5:30 PM	12	13	50	32	24	127	75	229	52	43	127	35	819
5:45 PM	21	16	54	28	24	155	102	254	28	45	95	23	845
6:00 PM	22	9	36	26	31	132	95	189	44	39	113	32	768
6:15 PM	9	12	34	29	22	128	108	155	46	44	97	28	712
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	134	86	322	212	186	999	670	1603	316	302	917	196	5943
APPROACH %'s :	24.72%	15.87%	59.41%	15.18%	13.31%	71.51%	25.88%	61.92%	12.21%	21.34%	64.81%	13.85%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	71	49	195	121	103	539	326	959	164	163	451	93	3234
PEAK HR FACTOR :		0.865			0.921			0.943			0.862		0.957

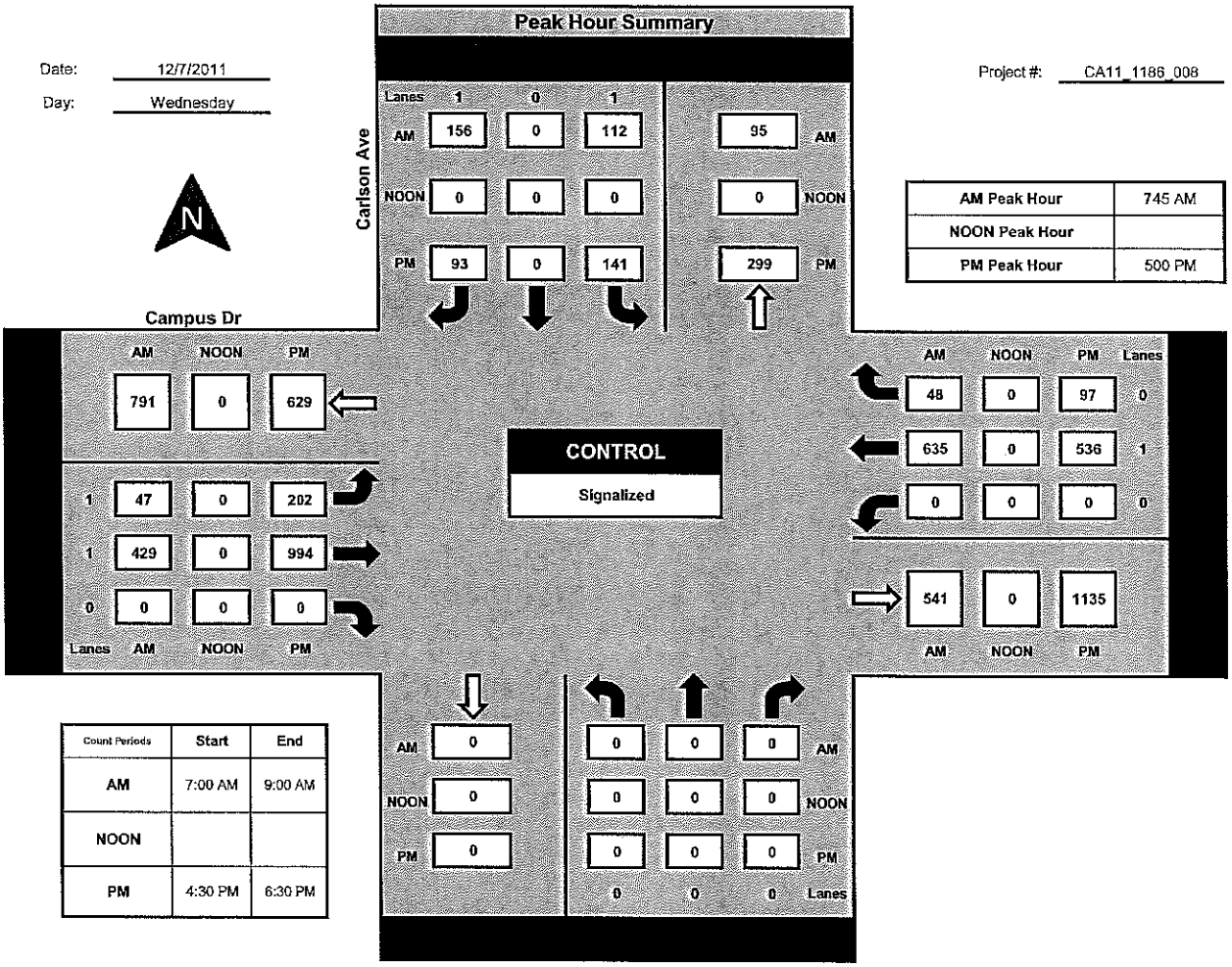
CONTROL : Signalized

ITM Peak Hour Summary

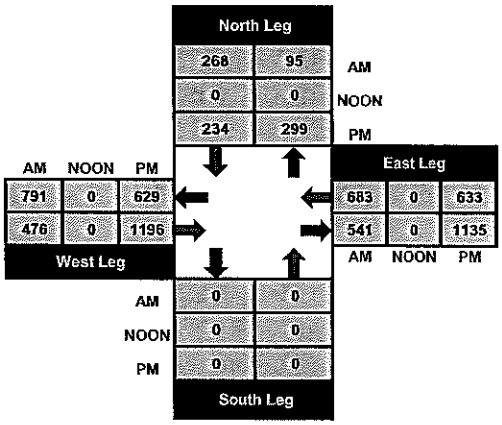
Prepared by:

National Data & Surveying Services

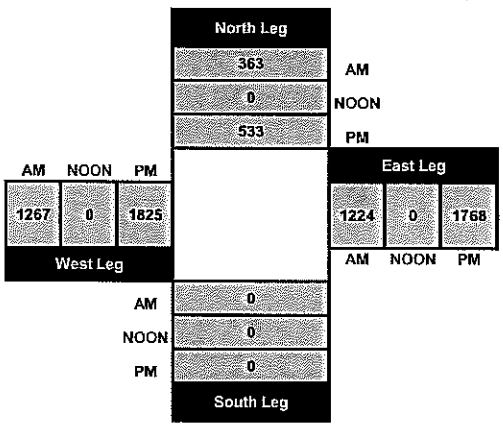
Carlson Ave and Campus Dr , City of Irvine



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_008

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Carlson Ave			Carlson Ave			Campus Dr			Campus Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 0	NR 0	SL 1	ST 0	SR 1	EL 1	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM				8		13	3	86			46	4	160
7:15 AM				23		22	7	98			88	7	245
7:30 AM				45		25	5	118			123	12	328
7:45 AM				42		37	7	118			138	6	348
8:00 AM				27		35	16	107			169	20	374
8:15 AM				28		48	11	98			181	10	376
8:30 AM				15		36	13	106			147	12	329
8:45 AM				26		33	7	76			145	12	299
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	214	0	249	69	807	0	0	1037	83	2459
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	46.22%	0.00%	53.78%	7.88%	92.12%	0.00%	0.00%	92.59%	7.41%	
PEAK HR START TIME :	745 AM												TOTAL
PEAK HR VOL :	0	0	0	112	0	156	47	429	0	0	635	48	1427
PEAK HR FACTOR :		0.000			0.848			0.952			0.894		0.949

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_008

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Carlson Ave			Carlson Ave			Campus Dr			Campus Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 0	NR 0	SL 1	ST 0	SR 1	EL 1	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
4:30 PM				19		26	26	142			112	22	347
4:45 PM				21		13	20	172			101	25	352
5:00 PM				35		24	34	254			132	33	512
5:15 PM				40		21	54	258			143	28	544
5:30 PM				33		28	64	257			118	19	519
5:45 PM				33		20	50	225			143	17	488
6:00 PM				29		13	43	189			134	27	435
6:15 PM				30		18	42	195			130	23	438
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	240	0	163	333	1692	0	0	1013	194	3635
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	59.55%	0.00%	40.45%	16.44%	83.56%	0.00%	0.00%	83.93%	16.07%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	0	0	0	141	0	93	202	994	0	0	536	97	2063
PEAK HR FACTOR :		0.000			0.959			0.931			0.925		0.948

CONTROL : Signalized

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
S Direction: HARVARD AVENUE
W Direction: MICHELSON DRIVE

File Name : H1105015
Site Code : 00005700
Start Date : 5/3/2011
Page No : 1

Groups Printed- Turning Movements

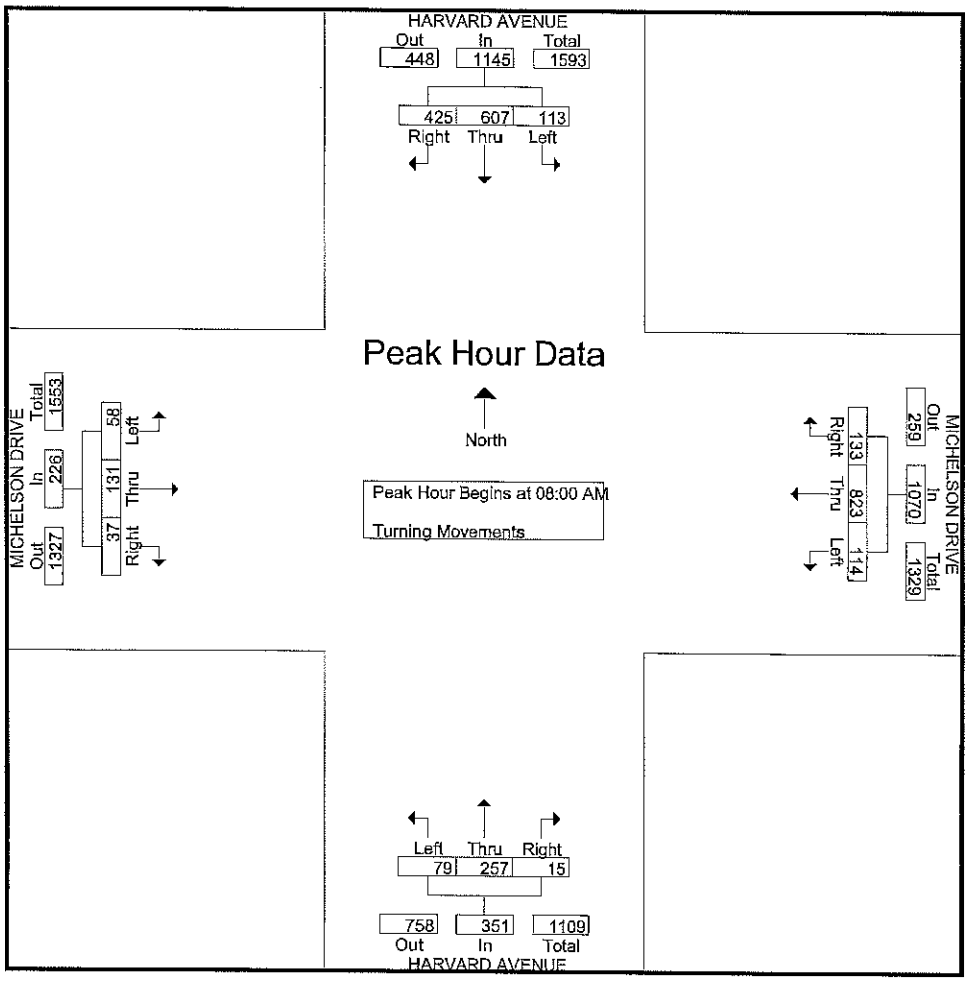
	HARVARD AVENUE Southbound			MICHELSON DRIVE Westbound			HARVARD AVENUE Northbound			MICHELSON DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	27	94	18	17	73	9	1	19	15	6	16	10	305
07:15 AM	45	109	24	35	87	12	5	62	8	11	29	9	436
07:30 AM	50	111	19	44	112	15	2	68	21	5	21	7	475
07:45 AM	84	139	26	29	157	25	2	54	20	11	40	16	603
Total	206	453	87	125	429	61	10	203	64	33	106	42	1819
08:00 AM	108	154	38	33	193	20	6	71	16	9	27	15	690
08:15 AM	102	132	23	35	215	23	2	51	24	9	33	17	666
08:30 AM	105	141	23	31	205	20	0	62	19	7	30	17	660
08:45 AM	110	180	29	34	210	51	7	73	20	12	41	9	776
Total	425	607	113	133	823	114	15	257	79	37	131	58	2792
*** BREAK ***													
04:30 PM	23	86	44	28	40	9	17	137	17	26	106	58	591
04:45 PM	27	84	45	10	45	21	6	134	10	18	166	64	630
Total	50	170	89	38	85	30	23	271	27	44	272	122	1221
05:00 PM	32	137	47	19	44	13	10	210	13	14	174	76	789
05:15 PM	36	136	73	45	52	11	14	229	12	28	253	131	1020
05:30 PM	28	143	66	46	55	19	13	230	11	26	207	108	952
05:45 PM	48	151	52	49	75	19	15	229	15	21	215	117	1006
Total	144	567	238	159	226	62	52	898	51	89	849	432	3767
06:00 PM	46	127	63	35	52	23	17	194	22	26	168	98	871
06:15 PM	42	120	59	29	56	14	25	185	10	22	196	88	846
Grand Total	913	2044	649	519	1671	304	142	2008	253	251	1722	840	11316
Apprch %	25.3	56.7	18	20.8	67	12.2	5.9	83.6	10.5	8.9	61.2	29.9	
Total %	8.1	18.1	5.7	4.6	14.8	2.7	1.3	17.7	2.2	2.2	15.2	7.4	

TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
N Direction: HARVARD AVENUE
W Direction: MICHELSON DRIVE

File Name : H1105015
Site Code : 00005700
Start Date : 5/3/2011
Page No : 2

	HARVARD AVENUE Southbound				MICHELSON DRIVE Westbound				HARVARD AVENUE Northbound				MICHELSON DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	108	154	**38**	300	33	193	20	246	6	71	16	93	9	27	15	51	690
08:15 AM	102	132	23	257	**35**	**215**	23	273	2	51	**24**	77	9	33	**17**	59	666
08:30 AM	105	**141**	23	269	31	205	20	256	0	62	19	81	7	30	17	54	660
08:45 AM	**110**	**180**	29	**319**	34	210	**51**	**295**	**7**	**73**	20	**100**	**12**	**41**	9	**62**	**776**
Total Volume	425	607	113	1145	133	823	114	1070	15	257	79	351	37	131	58	226	2792
% App. Total	37.1	53	9.9		12.4	76.9	10.7		4.3	73.2	22.5		16.4	58	25.7		
PHF	.966	.843	.743	.897	.950	.957	.559	.907	.536	.880	.823	.878	.771	.799	.853	.911	.899

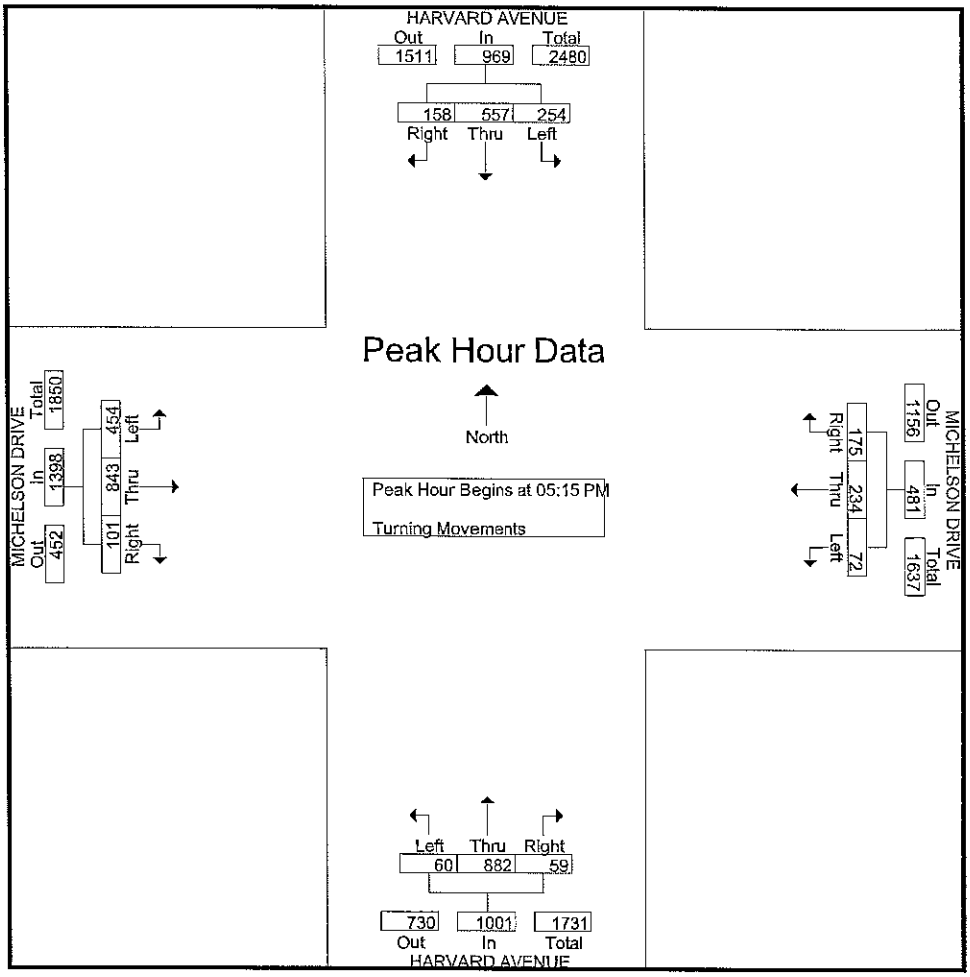


TRANSPORTATION STUDIES, INC.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: IRVINE
S Direction: HARVARD AVENUE
W Direction: MICHELSON DRIVE

File Name : H1105015
Site Code : 00005700
Start Date : 5/3/2011
Page No : 3

	HARVARD AVENUE Southbound				MICHELSON DRIVE Westbound				HARVARD AVENUE Northbound				MICHELSON DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	36	136	**73**	245	45	52	11	108	14	229	12	255	**28**	**253**	**131**	**412**	**1020**
05:30 PM	28	143	66	237	46	55	19	120	13	**230**	11	254	26	207	108	341	952
05:45 PM	**48**	**151**	52	**251**	**49**	**75**	19	**143**	15	229	15	**259**	21	215	**117**	353	1006
06:00 PM	46	127	63	236	35	52	**23**	110	**17**	194	**22**	233	26	168	98	292	871
Total Volume	158	557	254	969	175	234	72	481	59	882	60	1001	101	843	454	1398	3849
% App. Total	16.3	57.5	26.2		36.4	48.6	15		5.9	88.1	6		7.2	60.3	32.5		
PHF	.823	.922	.870	.965	.893	.780	.783	.841	.868	.959	.682	.966	.902	.833	.866	.848	.943



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: CAMPUS DRIVE
E-W Direction: N. BRISTOL STREET

File Name : H1104025
Site Code : 00005058
Start Date : 5/18/2011
Page No : 1

Groups Printed- Turning Movements

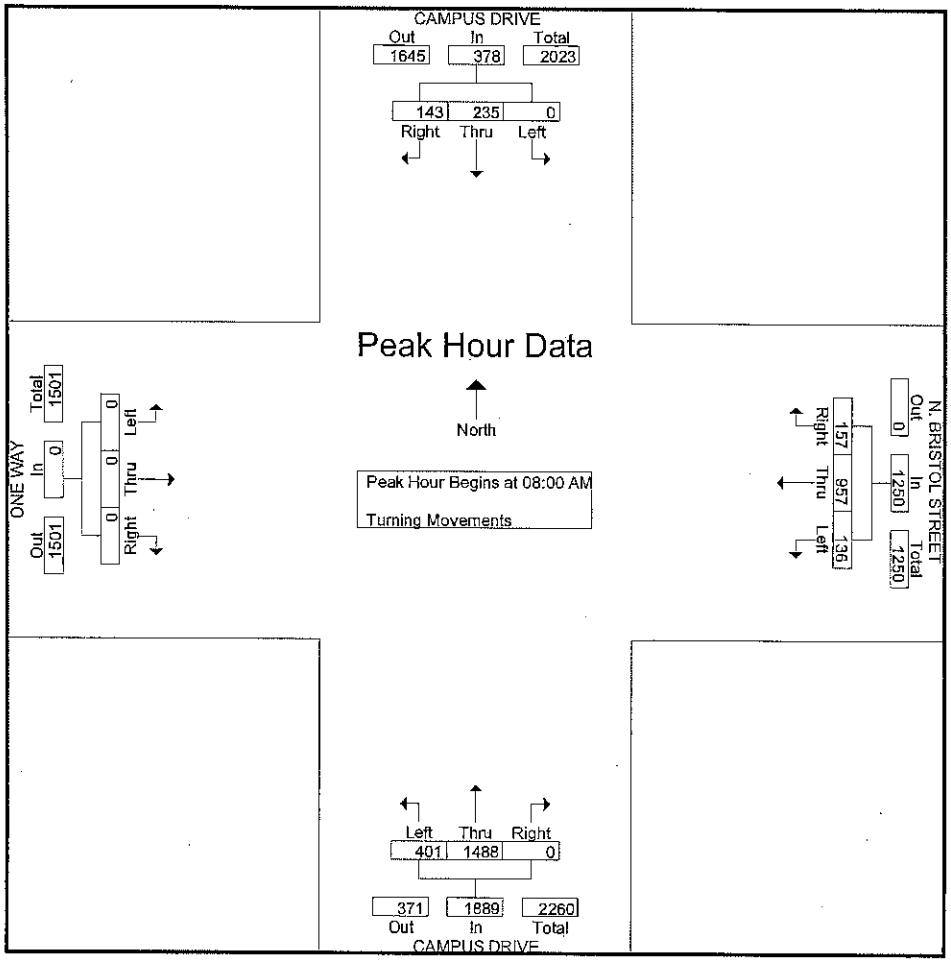
	CAMPUS DRIVE Southbound			N. BRISTOL STREET Westbound			CAMPUS DRIVE Northbound			ONE WAY Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	31	47	0	25	126	10	0	155	58	0	0	0	452
07:15 AM	33	49	0	25	142	10	0	194	74	0	0	0	527
07:30 AM	21	49	0	22	159	28	0	280	78	0	0	0	637
07:45 AM	26	56	0	25	233	34	0	344	97	0	0	0	815
Total	111	201	0	97	660	82	0	973	307	0	0	0	2431
08:00 AM	31	57	0	43	258	30	0	422	91	0	0	0	932
08:15 AM	27	60	0	37	237	38	0	386	95	0	0	0	880
08:30 AM	42	51	0	40	232	37	0	377	104	0	0	0	883
08:45 AM	43	67	0	37	230	31	0	303	111	0	0	0	822
Total	143	235	0	157	957	136	0	1488	401	0	0	0	3517
*** BREAK ***													
04:30 PM	163	150	0	28	341	46	0	164	154	0	0	0	1046
04:45 PM	205	167	0	33	378	65	0	138	120	0	0	0	1106
Total	368	317	0	61	719	111	0	302	274	0	0	0	2152
05:00 PM	189	189	0	31	442	42	0	164	110	0	0	0	1167
05:15 PM	179	214	0	20	510	54	0	178	114	0	0	0	1269
05:30 PM	211	214	0	25	497	73	0	153	126	0	0	0	1299
05:45 PM	184	182	0	30	507	66	0	156	128	0	0	0	1253
Total	763	799	0	106	1956	235	0	651	478	0	0	0	4988
06:00 PM	180	189	0	18	374	60	0	153	108	0	0	0	1082
06:15 PM	175	184	0	19	352	41	0	144	101	0	0	0	1016
Grand Total	1740	1925	0	458	5018	665	0	3711	1669	0	0	0	15186
Apprch %	47.5	52.5	0	7.5	81.7	10.8	0	69	31	0	0	0	
Total %	11.5	12.7	0	3	33	4.4	0	24.4	11	0	0	0	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: CAMPUS DRIVE
E-W Direction: N. BRISTOL STREET

File Name : H1104025
Site Code : 00005058
Start Date : 5/18/2011
Page No : 2

	CAMPUS DRIVE Southbound				N. BRISTOL STREET Westbound				CAMPUS DRIVE Northbound				ONE WAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	31	57	0	88	**43**	**258**	30	**331**	0	**422**	91	**513**	0	0	0	0	**932**
08:15 AM	27	60	0	87	37	237	**38**	312	0	386	95	481	0	0	0	0	880
08:30 AM	42	51	0	93	40	232	37	309	0	377	104	481	0	0	0	0	883
08:45 AM	**43**	**67**	0	**110**	37	230	31	298	0	303	**111**	414	0	0	0	0	822
Total Volume	143	235	0	378	157	957	136	1250	0	1488	401	1889	0	0	0	0	3517
% App. Total	37.8	62.2	0		12.6	76.6	10.9		0	78.8	21.2		0	0	0		
PHF	.831	.877	.000	.859	.913	.927	.895	.944	.000	.882	.903	.921	.000	.000	.000	.000	.943

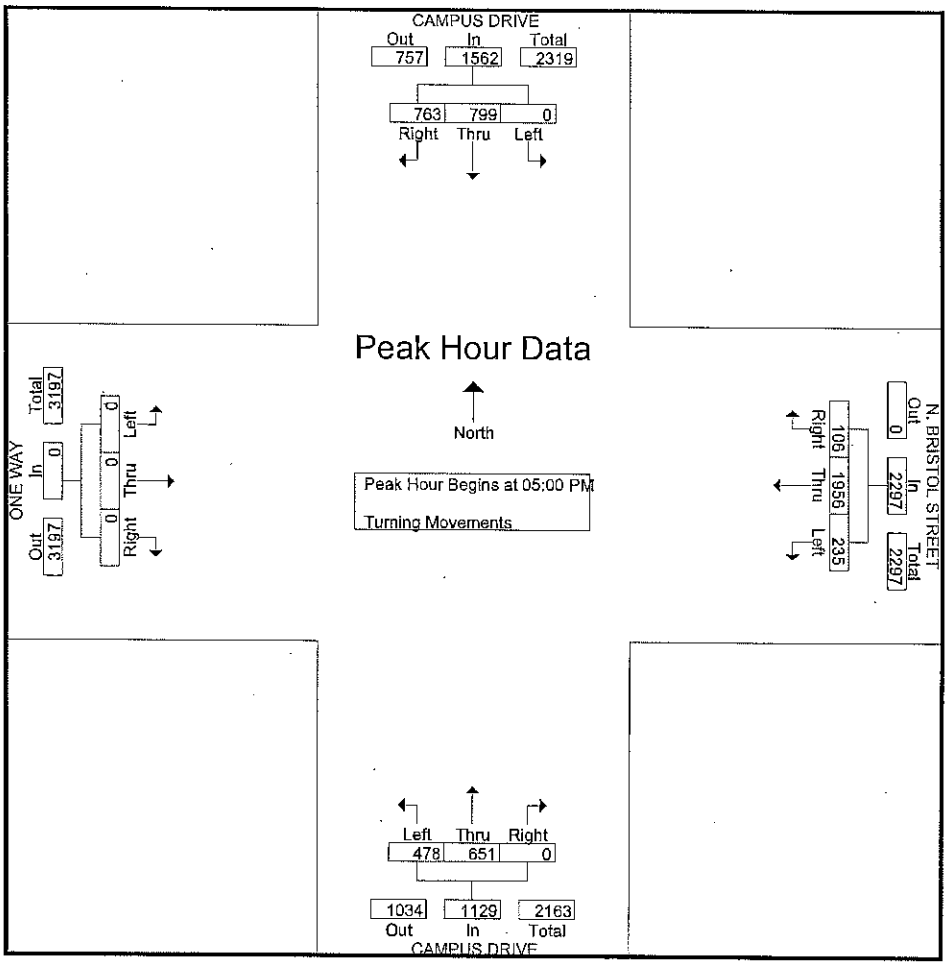


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: CAMPUS DRIVE
E-W Direction: N. BRISTOL STREET

File Name : H1104025
Site Code : 00005058
Start Date : 5/18/2011
Page No : 3

	CAMPUS DRIVE Southbound				N. BRISTOL STREET Westbound				CAMPUS DRIVE Northbound				ONE WAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	189	189	0	378	**31**	442	42	515	0	164	110	274	0	0	0	0	1167
05:15 PM	179	**214**	0	393	20	**510**	54	584	0	**178**	114	**292**	0	0	0	0	1269
05:30 PM	**211**	214	0	**425**	25	497	**73**	595	0	153	126	279	0	0	0	0	**1299**
05:45 PM	184	182	0	366	30	507	66	**603**	0	156	**128**	284	0	0	0	0	1253
Total Volume	763	799	0	1562	106	1956	235	2297	0	651	478	1129	0	0	0	0	4988
% App. Total	48.8	51.2	0		4.6	85.2	10.2		0	57.7	42.3		0	0	0		
PHF	.904	.933	.000	.919	.855	.959	.805	.952	.000	.914	.934	.967	.000	.000	.000	.000	.960



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BIRCH STREET
E-W Direction: N. BRISTOL STREET

File Name : H1104022
Site Code : 00000976
Start Date : 5/17/2011
Page No : 1

Groups Printed- Turning Movements

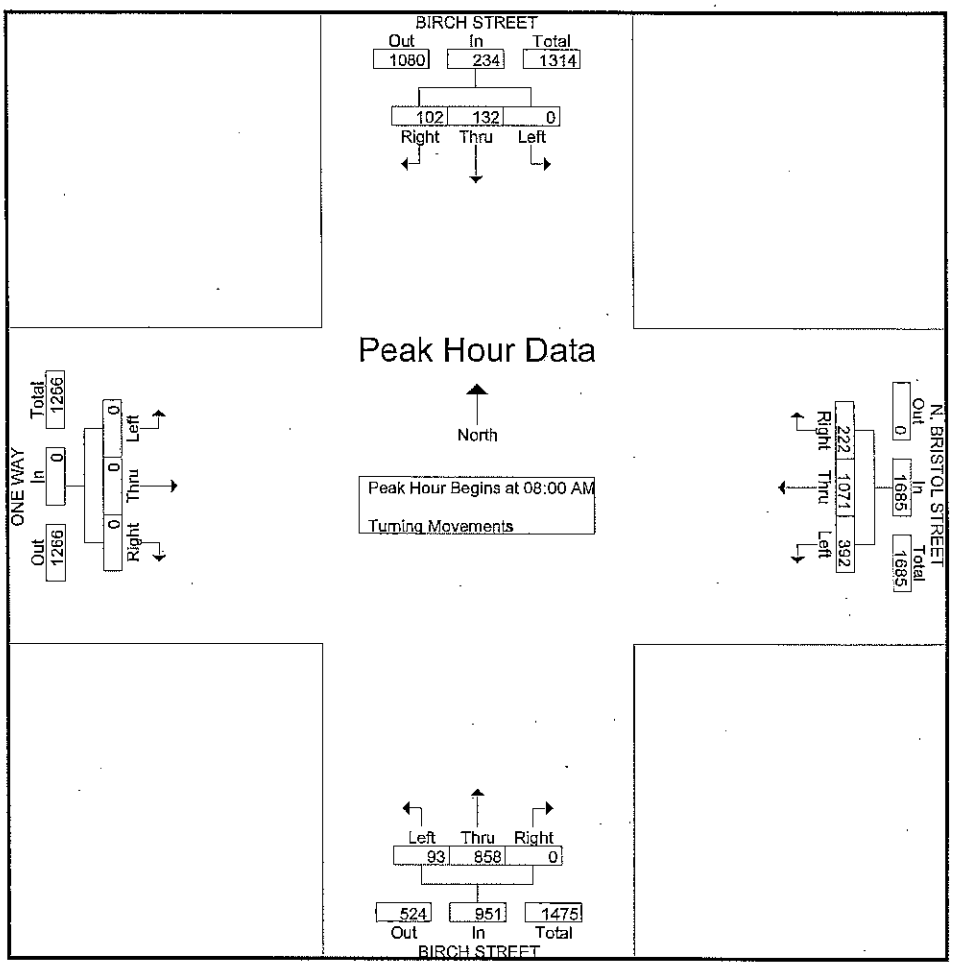
	BIRCH STREET Southbound			N. BRISTOL STREET Westbound			BIRCH STREET Northbound			ONE WAY Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	11	13	0	25	102	43	0	103	22	0	0	0	319
07:15 AM	13	10	0	31	120	47	0	103	16	0	0	0	340
07:30 AM	18	15	0	26	193	74	0	125	20	0	0	0	471
07:45 AM	16	25	0	39	293	81	0	157	22	0	0	0	633
Total	58	63	0	121	708	245	0	488	80	0	0	0	1763
08:00 AM	20	33	0	53	283	95	0	221	26	0	0	0	731
08:15 AM	17	36	0	58	294	99	0	207	18	0	0	0	729
08:30 AM	29	32	0	56	252	101	0	239	22	0	0	0	731
08:45 AM	36	31	0	55	242	97	0	191	27	0	0	0	679
Total	102	132	0	222	1071	392	0	858	93	0	0	0	2870
*** BREAK ***													
04:30 PM	135	74	0	44	299	73	0	65	26	0	0	0	716
04:45 PM	124	84	0	34	270	90	0	87	31	0	0	0	720
Total	259	158	0	78	569	163	0	152	57	0	0	0	1436
05:00 PM	183	110	0	43	344	95	0	78	45	0	0	0	898
05:15 PM	182	110	0	39	408	114	0	77	36	0	0	0	966
05:30 PM	149	100	0	24	373	98	0	69	38	0	0	0	851
05:45 PM	139	117	0	31	350	110	0	61	37	0	0	0	845
Total	653	437	0	137	1475	417	0	285	156	0	0	0	3560
06:00 PM	131	97	0	24	307	83	0	58	36	0	0	0	736
06:15 PM	110	82	0	27	243	71	0	35	38	0	0	0	606
Grand Total	1313	969	0	609	4373	1371	0	1876	460	0	0	0	10971
Apprch %	57.5	42.5	0	9.6	68.8	21.6	0	80.3	19.7	0	0	0	
Total %	12	8.8	0	5.6	39.9	12.5	0	17.1	4.2	0	0	0	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BIRCH STREET
E-W Direction: N. BRISTOL STREET

File Name : H1104022
Site Code : 00000976
Start Date : 5/17/2011
Page No : 2

	BIRCH STREET Southbound				N. BRISTOL STREET Westbound				BIRCH STREET Northbound				ONE WAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	20	33	0	53	53	283	95	431	0	221	26	247	0	0	0	0	**731**
08:15 AM	17	**36**	0	53	**58**	**294**	99	**451**	0	207	18	225	0	0	0	0	729
08:30 AM	29	32	0	61	56	252	**101**	409	0	**239**	22	**261**	0	0	0	0	731
08:45 AM	**36**	31	0	**67**	55	242	97	394	0	191	**27**	218	0	0	0	0	679
Total Volume	102	132	0	234	222	1071	392	1685	0	858	93	951	0	0	0	0	2870
% App. Total	43.6	56.4	0		13.2	63.6	23.3		0	90.2	9.8		0	0	0		
PHF	.708	.917	.000	.873	.957	.911	.970	.934	.000	.897	.861	.911	.000	.000	.000	.000	.982

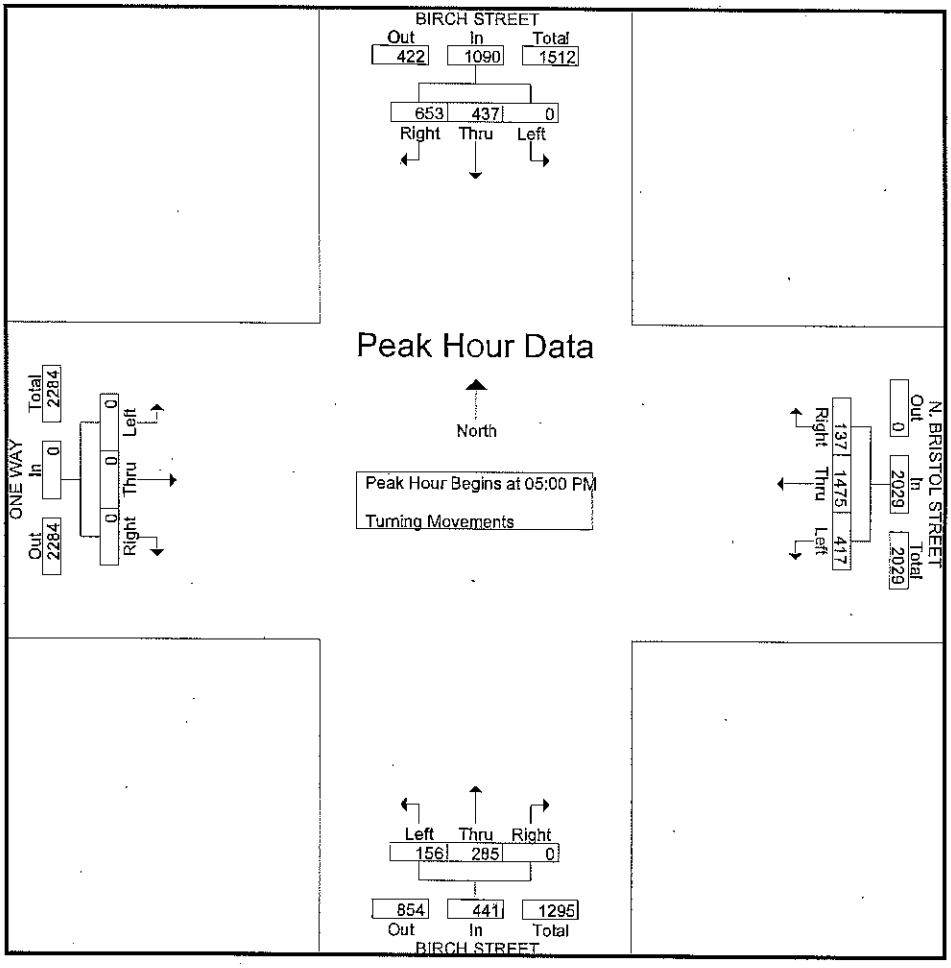


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BIRCH STREET
E-W Direction: N. BRISTOL STREET

File Name : H1104022
Site Code : 00000976
Start Date : 5/17/2011
Page No : 3

	BIRCH STREET Southbound				N. BRISTOL STREET Westbound				BIRCH STREET Northbound				ONE WAY Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**183**	110	0	**293**	**43**	344	95	482	0	**78**	45	**123**	0	0	0	0	898
05:15 PM	182	110	0	292	39	**408**	**114**	**561**	0	77	36	113	0	0	0	0	**966**
05:30 PM	149	100	0	249	24	373	98	495	0	69	38	107	0	0	0	0	851
05:45 PM	139	**117**	0	256	31	350	110	491	0	61	37	98	0	0	0	0	845
Total Volume	653	437	0	1090	137	1475	417	2029	0	285	156	441	0	0	0	0	3560
% App. Total	59.9	40.1	0		6.8	72.7	20.6		0	64.6	35.4		0	0	0		
PHF	.892	.934	.000	.930	.797	.904	.914	.904	.000	.913	.867	.896	.000	.000	.000	.000	.921



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: CAMPUS DRIVE
E-W Direction: S. BRISTOL STREET

File Name : H1104024
Site Code : 00003872
Start Date : 5/18/2011
Page No : 1

Groups Printed- Turning Movements

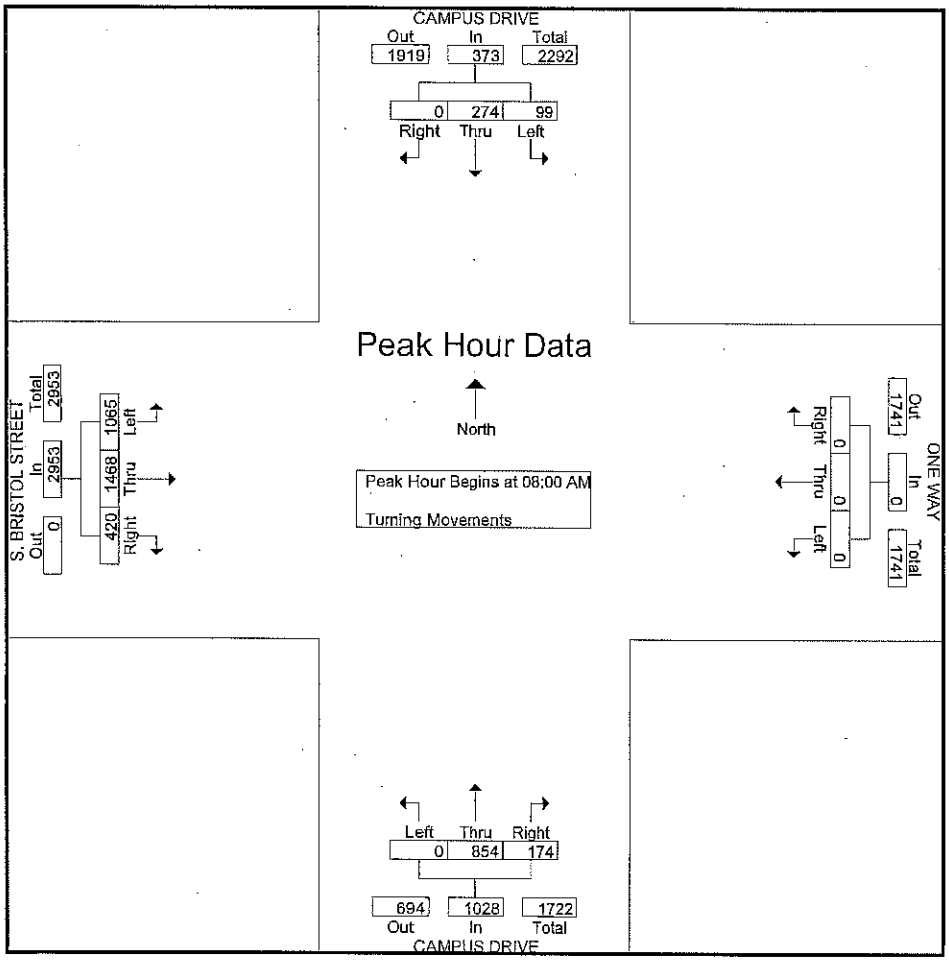
	CAMPUS DRIVE Southbound			ONE WAY Westbound			CAMPUS DRIVE Northbound			S. BRISTOL STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	0	45	26	0	0	0	25	86	0	75	159	128	544
07:15 AM	0	40	23	0	0	0	23	129	0	64	216	133	628
07:30 AM	0	42	22	0	0	0	27	146	0	88	263	225	813
07:45 AM	0	73	21	0	0	0	46	237	0	90	293	229	989
Total	0	200	92	0	0	0	121	598	0	317	931	715	2974
08:00 AM	0	72	26	0	0	0	35	228	0	121	405	318	1205
08:15 AM	0	59	20	0	0	0	39	208	0	107	397	269	1099
08:30 AM	0	64	25	0	0	0	44	201	0	102	331	247	1014
08:45 AM	0	79	28	0	0	0	56	217	0	90	335	231	1036
Total	0	274	99	0	0	0	174	854	0	420	1468	1065	4354
*** BREAK ***													
04:30 PM	0	138	56	0	0	0	38	159	0	109	214	105	819
04:45 PM	0	166	61	0	0	0	53	152	0	105	222	132	891
Total	0	304	117	0	0	0	91	311	0	214	436	237	1710
05:00 PM	0	166	48	0	0	0	55	177	0	136	214	112	908
05:15 PM	0	279	55	0	0	0	68	154	0	135	224	96	1011
05:30 PM	0	204	50	0	0	0	55	157	0	126	227	91	910
05:45 PM	0	188	49	0	0	0	52	172	0	141	235	122	959
Total	0	837	202	0	0	0	230	660	0	538	900	421	3788
06:00 PM	0	192	51	0	0	0	38	155	0	135	184	91	846
06:15 PM	0	180	55	0	0	0	47	151	0	100	192	89	814
Grand Total	0	1987	616	0	0	0	701	2729	0	1724	4111	2618	14486
Apprch %	0	76.3	23.7	0	0	0	20.4	79.6	0	20.4	48.6	31	
Total %	0	13.7	4.3	0	0	0	4.8	18.8	0	11.9	28.4	18.1	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

'ity: NEWPORT BEACH
.N-S Direction: CAMPUS DRIVE
E-W Direction: S. BRISTOL STREET

File Name : H1104024
Site Code : 00003872
Start Date : 5/18/2011
Page No : 2

	CAMPUS DRIVE Southbound				ONE WAY Westbound				CAMPUS DRIVE Northbound				S. BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	72	26	98	0	0	0	0	35	**228**	0	263	**121**	**405**	**318**	**844**	**1205**
08:15 AM	0	59	20	79	0	0	0	0	39	208	0	247	107	397	269	773	1099
08:30 AM	0	64	25	89	0	0	0	0	44	201	0	245	102	331	247	680	1014
08:45 AM	0	**79**	**28**	**107**	0	0	0	0	**56**	217	0	**273**	90	335	231	656	1036
Total Volume	0	274	99	373	0	0	0	0	174	854	0	1028	420	1468	1065	2953	4354
% App. Total	0	73.5	26.5		0	0	0		16.9	83.1	0		14.2	49.7	36.1		
PHF	.000	.867	.884	.871	.000	.000	.000	.000	.777	.936	.000	.941	.868	.906	.837	.875	.903

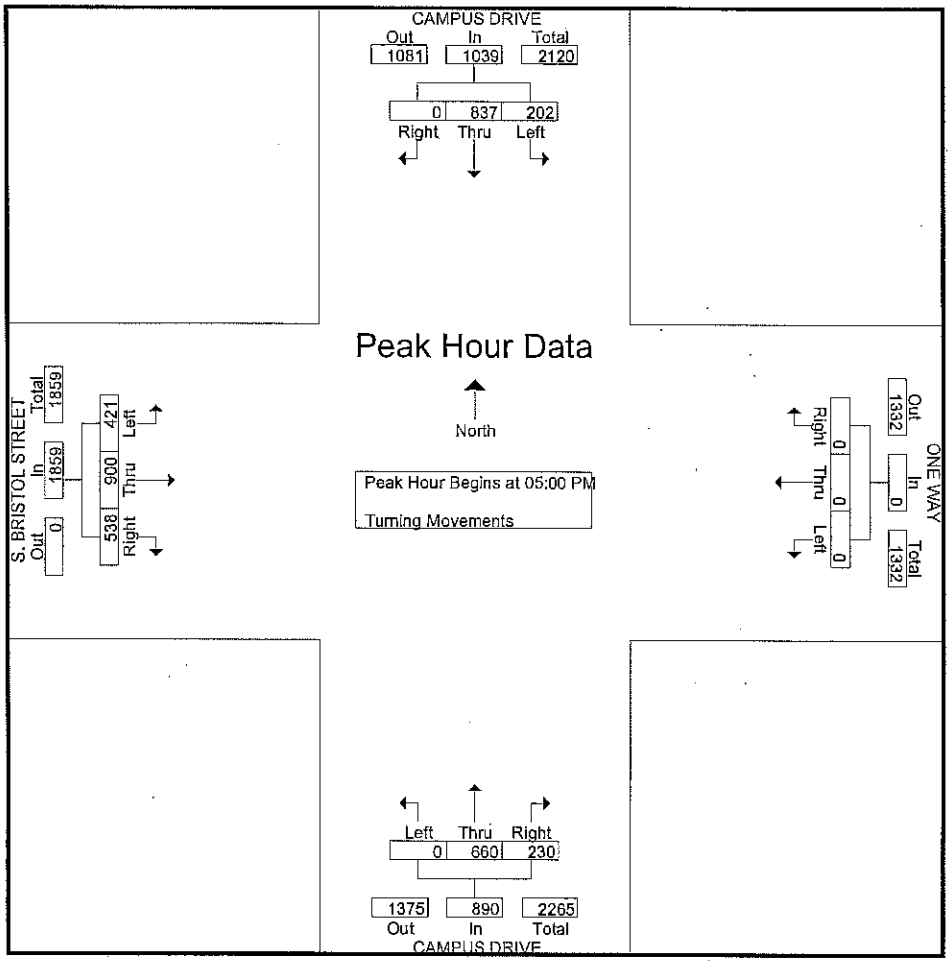


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
.N-S Direction: CAMPUS DRIVE
E-W Direction: S. BRISTOL STREET

File Name : H1104024
Site Code : 00003872
Start Date : 5/18/2011
Page No : 3

	CAMPUS DRIVE Southbound				ONE WAY Westbound				CAMPUS DRIVE Northbound				S. BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	166	48	214	0	0	0	0	55	**177**	0	**232**	136	214	112	462	908
05:15 PM	0	**279**	**55**	**334**	0	0	0	0	**68**	154	0	222	135	224	96	455	**1011**
05:30 PM	0	204	50	254	0	0	0	0	55	157	0	212	126	227	91	444	910
05:45 PM	0	188	49	237	0	0	0	0	52	172	0	224	**141**	**235**	**122**	**498**	959
Total Volume	0	837	202	1039	0	0	0	0	230	660	0	890	538	900	421	1859	3788
% App. Total	0	80.6	19.4		0	0	0		25.8	74.2	0		28.9	48.4	22.6		
PHF	.000	.750	.918	.778	.000	.000	.000	.000	.846	.932	.000	.959	.954	.957	.863	.933	.937



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BIRCH STREET
E-W Direction: S. BRISTOL STREET

File Name : H1104023
Site Code : 00003872
Start Date : 5/17/2011
Page No : 1

Groups Printed- Turning Movements

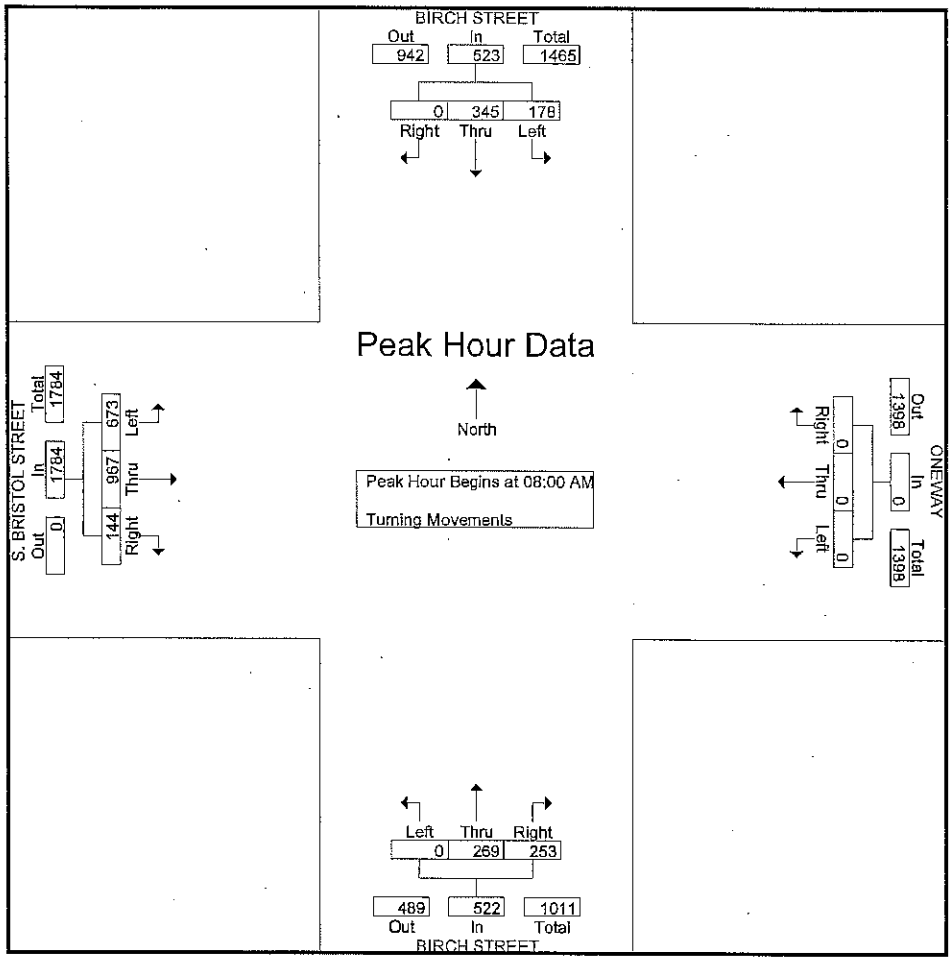
	BIRCH STREET Southbound			ONEWAY Westbound			BIRCH STREET Northbound			S. BRISTOL STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	0	40	17	0	0	0	14	27	0	19	132	92	341
07:15 AM	0	47	22	0	0	0	28	25	0	23	151	78	374
07:30 AM	0	54	28	0	0	0	48	38	0	16	173	92	449
07:45 AM	0	66	30	0	0	0	66	55	0	24	209	103	553
Total	0	207	97	0	0	0	156	145	0	82	665	365	1717
08:00 AM	0	91	44	0	0	0	57	63	0	30	249	193	727
08:15 AM	0	69	49	0	0	0	64	62	0	39	259	160	702
08:30 AM	0	84	44	0	0	0	81	77	0	42	217	168	713
08:45 AM	0	101	41	0	0	0	51	67	0	33	242	152	687
Total	0	345	178	0	0	0	253	269	0	144	967	673	2829
*** BREAK ***													
04:30 PM	0	105	51	0	0	0	51	38	0	33	224	45	547
04:45 PM	0	120	50	0	0	0	60	51	0	25	237	76	619
Total	0	225	101	0	0	0	111	89	0	58	461	121	1166
05:00 PM	0	118	85	0	0	0	57	69	0	33	217	56	635
05:15 PM	0	182	77	0	0	0	66	60	0	32	272	57	746
05:30 PM	0	126	59	0	0	0	53	49	0	35	249	71	642
05:45 PM	0	141	66	0	0	0	66	52	0	24	258	43	650
Total	0	567	287	0	0	0	242	230	0	124	996	227	2673
06:00 PM	0	126	59	0	0	0	58	59	0	28	225	45	600
06:15 PM	0	103	49	0	0	0	57	39	0	18	222	35	523
Grand Total	0	1573	771	0	0	0	877	831	0	454	3536	1466	9508
Apprch %	0	67.1	32.9	0	0	0	51.3	48.7	0	8.3	64.8	26.9	
Total %	0	16.5	8.1	0	0	0	9.2	8.7	0	4.8	37.2	15.4	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: BIRCH STREET
E-W Direction: S. BRISTOL STREET

File Name : H1104023
Site Code : 00003872
Start Date : 5/17/2011
Page No : 2

	BIRCH STREET Southbound				ONEWAY Westbound				BIRCH STREET Northbound				S. BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	91	44	135	0	0	0	0	57	63	0	120	30	249	193	472	727
08:15 AM	0	69	49	118	0	0	0	0	64	62	0	126	39	259	160	458	702
08:30 AM	0	84	44	128	0	0	0	0	81	77	0	158	42	217	168	427	713
08:45 AM	0	101	41	142	0	0	0	0	51	67	0	118	33	242	152	427	687
Total Volume	0	345	178	523	0	0	0	0	253	269	0	522	144	967	673	1784	2829
% App. Total	0	66	34		0	0	0		48.5	51.5	0		8.1	54.2	37.7		
PHF	.000	.854	.908	.921	.000	.000	.000	.000	.781	.873	.000	.826	.857	.933	.872	.945	.973

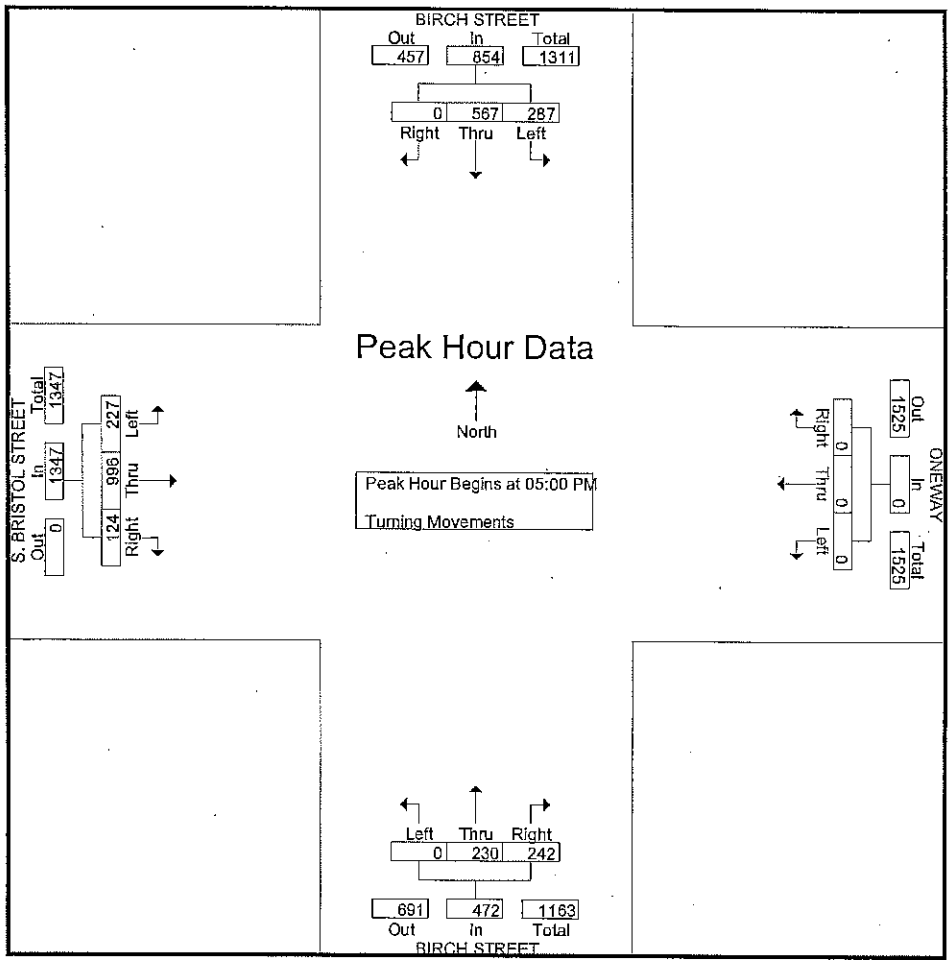


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

City: NEWPORT BEACH
N-S Direction: BIRCH STREET
E-W Direction: S. BRISTOL STREET

File Name : H1104023
Site Code : 00003872
Start Date : 5/17/2011
Page No : 3

	BIRCH STREET Southbound				ONEWAY Westbound				BIRCH STREET Northbound				S. BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	118	**85**	203	0	0	0	0	57	**69**	0	**126**	33	217	56	306	635
05:15 PM	0	**182**	77	**259**	0	0	0	0	**66**	60	0	126	32	**272**	57	**361**	**746**
05:30 PM	0	126	59	185	0	0	0	0	53	49	0	102	**35**	249	**71**	355	642
05:45 PM	0	141	66	207	0	0	0	0	66	52	0	118	24	258	43	325	650
Total Volume	0	567	287	854	0	0	0	0	242	230	0	472	124	996	227	1347	2673
% App. Total	0	66.4	33.6		0	0	0		51.3	48.7	0		9.2	73.9	16.9		
PHF	.000	.779	.844	.824	.000	.000	.000	.000	.917	.833	.000	.937	.886	.915	.799	.933	.896



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BAYVIEW PLACE
E-W Direction: BRISTOL STREET

File Name : H1104021
Site Code : 00005057
Start Date : 5/12/2011
Page No : 1

Groups Printed- Turning Movements

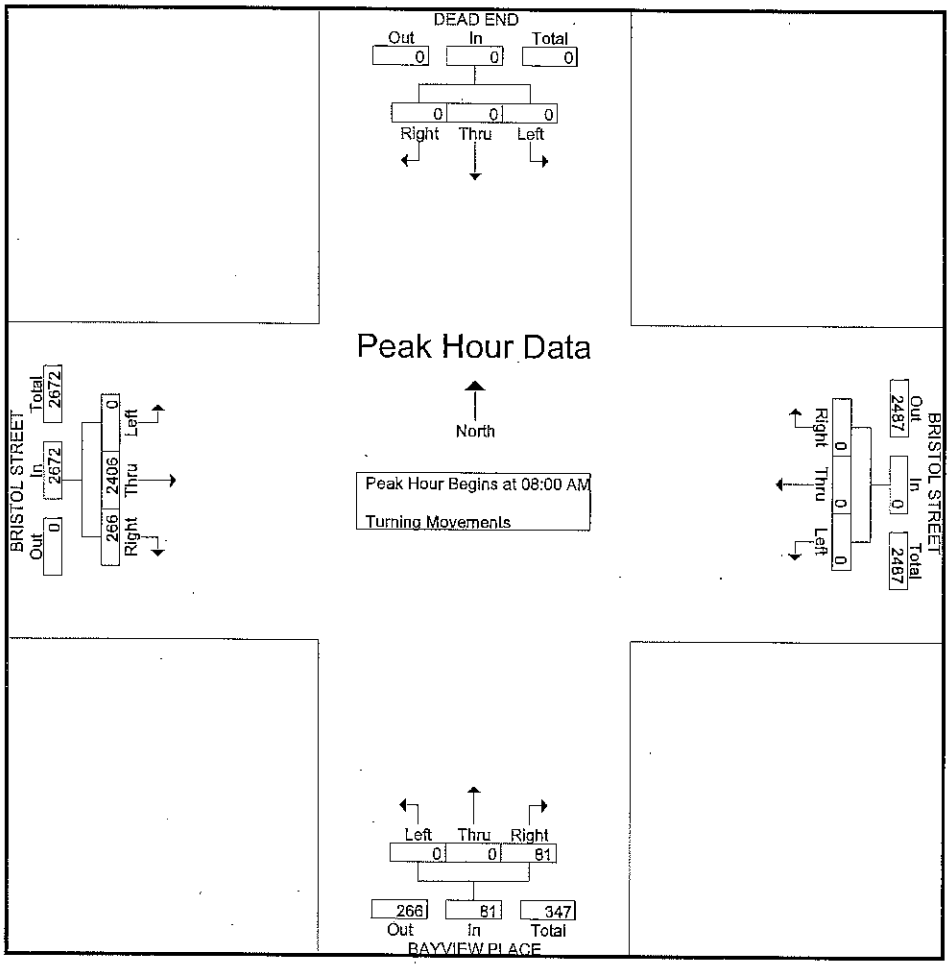
	DEAD END Southbound			BRISTOL STREET Westbound			BAYVIEW PLACE Northbound			BRISTOL STREET Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	0	0	0	0	0	0	19	0	0	37	447	0	503
07:15 AM	0	0	0	0	0	0	14	0	0	38	446	0	498
07:30 AM	0	0	0	0	0	0	15	0	0	31	560	0	606
07:45 AM	0	0	0	0	0	0	17	0	0	52	597	0	666
Total	0	0	0	0	0	0	65	0	0	158	2050	0	2273
08:00 AM	0	0	0	0	0	0	20	0	0	80	633	0	733
08:15 AM	0	0	0	0	0	0	20	0	0	59	530	0	609
08:30 AM	0	0	0	0	0	0	21	0	0	67	613	0	701
08:45 AM	0	0	0	0	0	0	20	0	0	60	630	0	710
Total	0	0	0	0	0	0	81	0	0	266	2406	0	2753
*** BREAK ***													
04:30 PM	0	0	0	0	0	0	28	0	0	25	545	0	598
04:45 PM	0	0	0	0	0	0	59	0	0	26	599	0	684
Total	0	0	0	0	0	0	87	0	0	51	1144	0	1282
05:00 PM	0	0	0	0	0	0	41	0	0	24	600	0	665
05:15 PM	0	0	0	0	0	0	80	0	0	28	706	0	814
05:30 PM	0	0	0	0	0	0	61	0	0	26	629	0	716
05:45 PM	0	0	0	0	0	0	68	0	0	23	679	0	770
Total	0	0	0	0	0	0	250	0	0	101	2614	0	2965
06:00 PM	0	0	0	0	0	0	44	0	0	22	572	0	638
06:15 PM	0	0	0	0	0	0	57	0	0	22	517	0	596
Grand Total	0	0	0	0	0	0	584	0	0	620	9303	0	10507
Apprch %	0	0	0	0	0	0	100	0	0	6.2	93.8	0	
Total %	0	0	0	0	0	0	5.6	0	0	5.9	88.5	0	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BAYVIEW PLACE
E-W Direction: BRISTOL STREET

File Name : H1104021
Site Code : 00005057
Start Date : 5/12/2011
Page No : 2

	DEAD END Southbound				BRISTOL STREET Westbound				BAYVIEW PLACE Northbound				BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	0	0	0	0	0	0	0	20	0	0	20	**80**	**633**	0	**713**	**733**
08:15 AM	0	0	0	0	0	0	0	0	20	0	0	20	59	530	0	589	609
08:30 AM	0	0	0	0	0	0	0	0	**21**	0	0	**21**	67	613	0	680	701
08:45 AM	0	0	0	0	0	0	0	0	20	0	0	20	60	630	0	690	710
Total Volume	0	0	0	0	0	0	0	0	81	0	0	81	266	2406	0	2672	2753
% App. Total	0	0	0		0	0	0		100	0	0		10	90	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.964	.000	.000	.964	.831	.950	.000	.937	.939

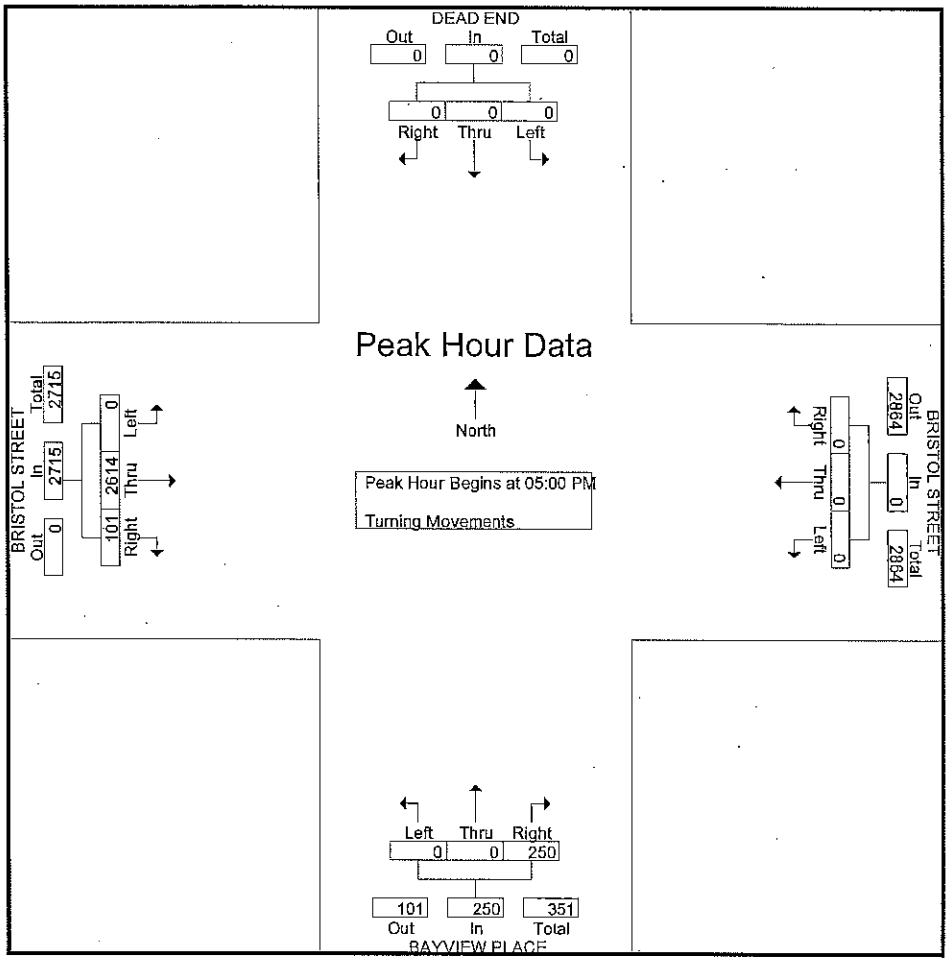


Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: BAYVIEW PLACE
E-W Direction: BRISTOL STREET

File Name : H1104021
Site Code : 00005057
Start Date : 5/12/2011
Page No : 3

	DEAD END Southbound				BRISTOL STREET Westbound				BAYVIEW PLACE Northbound				BRISTOL STREET Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	0	0	0	41	0	0	41	24	600	0	624	665
05:15 PM	0	0	0	0	0	0	0	0	**80**	0	0	**80**	**28**	**706**	0	**734**	**814**
05:30 PM	0	0	0	0	0	0	0	0	61	0	0	61	26	629	0	655	716
05:45 PM	0	0	0	0	0	0	0	0	68	0	0	68	23	679	0	702	770
Total Volume	0	0	0	0	0	0	0	0	250	0	0	250	101	2614	0	2715	2965
% App. Total	0	0	0		0	0	0		100	0	0		3.7	96.3	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.781	.000	.000	.781	.902	.926	.000	.925	.911



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: IRVINE AVENUE
E-W Direction: MESA DRIVE

File Name : H1104038
Site Code : 00005053
Start Date : 4/20/2011
Page No : 1

Groups Printed- Turning Movements

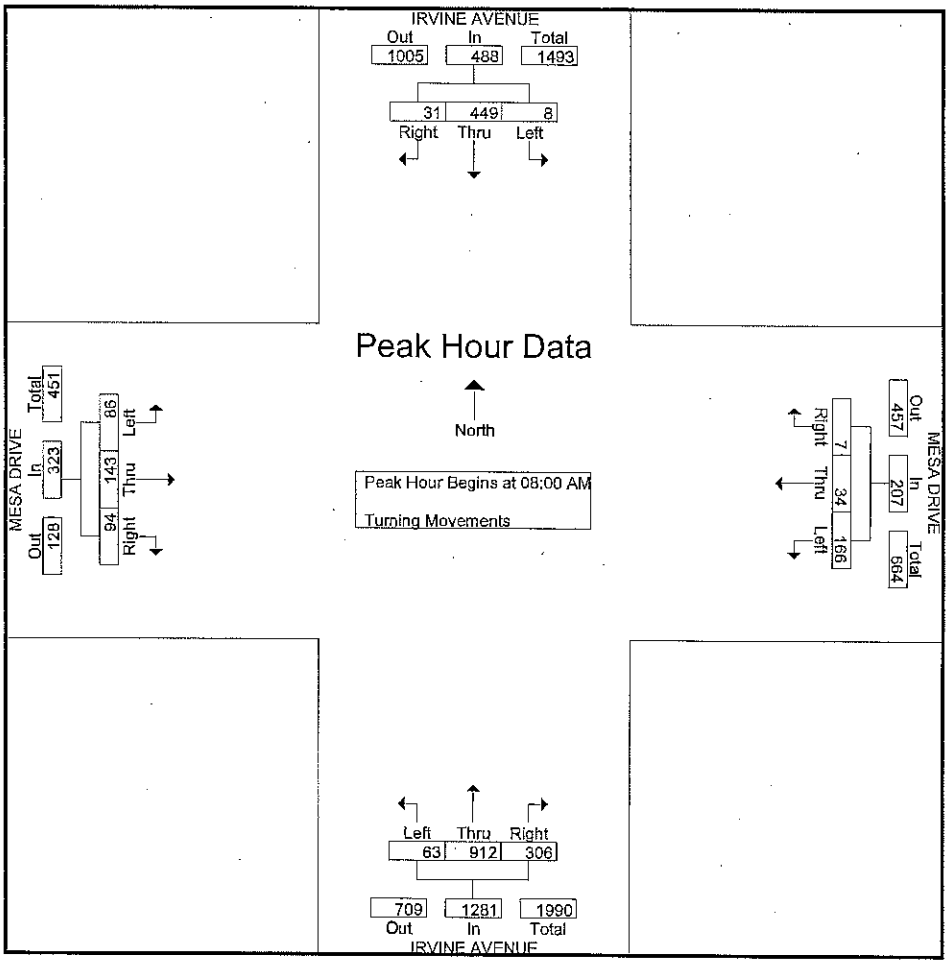
	IRVINE AVENUE Southbound			MESA DRIVE Westbound			IRVINE AVENUE Northbound			MESA DRIVE Eastbound			
Start Time	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Right	Thru	Left	Int. Total
07:00 AM	4	56	1	0	2	11	23	89	6	5	12	5	214
07:15 AM	1	77	0	1	4	15	30	124	5	9	13	8	287
07:30 AM	7	75	0	0	2	14	54	148	7	11	19	16	353
07:45 AM	1	89	0	0	4	28	65	227	7	18	39	28	506
Total	13	297	1	1	12	68	172	588	25	43	83	57	1360
08:00 AM	9	115	2	0	6	38	70	236	16	17	41	38	588
08:15 AM	7	114	2	4	7	42	78	232	11	27	41	15	580
08:30 AM	8	127	2	3	12	44	80	219	21	26	42	19	603
08:45 AM	7	93	2	0	9	42	78	225	15	24	19	14	528
Total	31	449	8	7	34	166	306	912	63	94	143	86	2299
*** BREAK ***													
04:30 PM	26	206	1	9	17	67	32	127	8	23	18	8	542
04:45 PM	21	226	2	3	24	89	46	140	16	27	10	0	604
Total	47	432	3	12	41	156	78	267	24	50	28	8	1146
05:00 PM	25	236	0	7	38	112	40	144	18	26	15	6	667
05:15 PM	54	294	0	2	45	147	38	142	14	28	11	6	781
05:30 PM	54	340	4	4	45	119	27	141	10	21	15	10	790
05:45 PM	32	289	2	3	42	116	38	135	4	31	12	4	708
Total	165	1159	6	16	170	494	143	562	46	106	53	26	2946
06:00 PM	27	259	4	2	18	111	37	124	11	21	10	8	632
06:15 PM	24	241	2	5	28	100	42	153	20	20	16	7	658
Grand Total	307	2837	24	43	303	1095	778	2606	189	334	333	192	9041
Apprch %	9.7	89.6	0.8	3	21	76	21.8	72.9	5.3	38.9	38.8	22.4	
Total %	3.4	31.4	0.3	0.5	3.4	12.1	8.6	28.8	2.1	3.7	3.7	2.1	

Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: IRVINE AVENUE
E-W Direction: MESA DRIVE

File Name : H1104038
Site Code : 00005053
Start Date : 4/20/2011
Page No : 2

	IRVINE AVENUE Southbound				MESA DRIVE Westbound				IRVINE AVENUE Northbound				MESA DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	**9**	115	**2**	126	0	6	38	44	70	**236**	16	**322**	17	41	**38**	**96**	588
08:15 AM	7	114	2	123	**4**	**7**	42	53	78	232	11	321	**27**	41	15	83	580
08:30 AM	8	**127**	2	**137**	3	**12**	**44**	**59**	**80**	219	**21**	320	26	**42**	19	87	**603**
08:45 AM	7	93	2	102	0	9	42	51	78	225	15	318	24	19	14	57	528
Total Volume	31	449	8	488	7	34	166	207	306	912	63	1281	94	143	86	323	2299
% App. Total	6.4	92	1.6		3.4	16.4	80.2		23.9	71.2	4.9		29.1	44.3	26.6		
PHF	.861	.884	1.000	.891	.438	.708	.943	.877	.956	.966	.750	.995	.870	.851	.566	.841	.953



Transportation Studies, Inc.
2640 Walnut Avenue, Suite H
Tustin, CA. 92780

ity: NEWPORT BEACH
N-S Direction: IRVINE AVENUE
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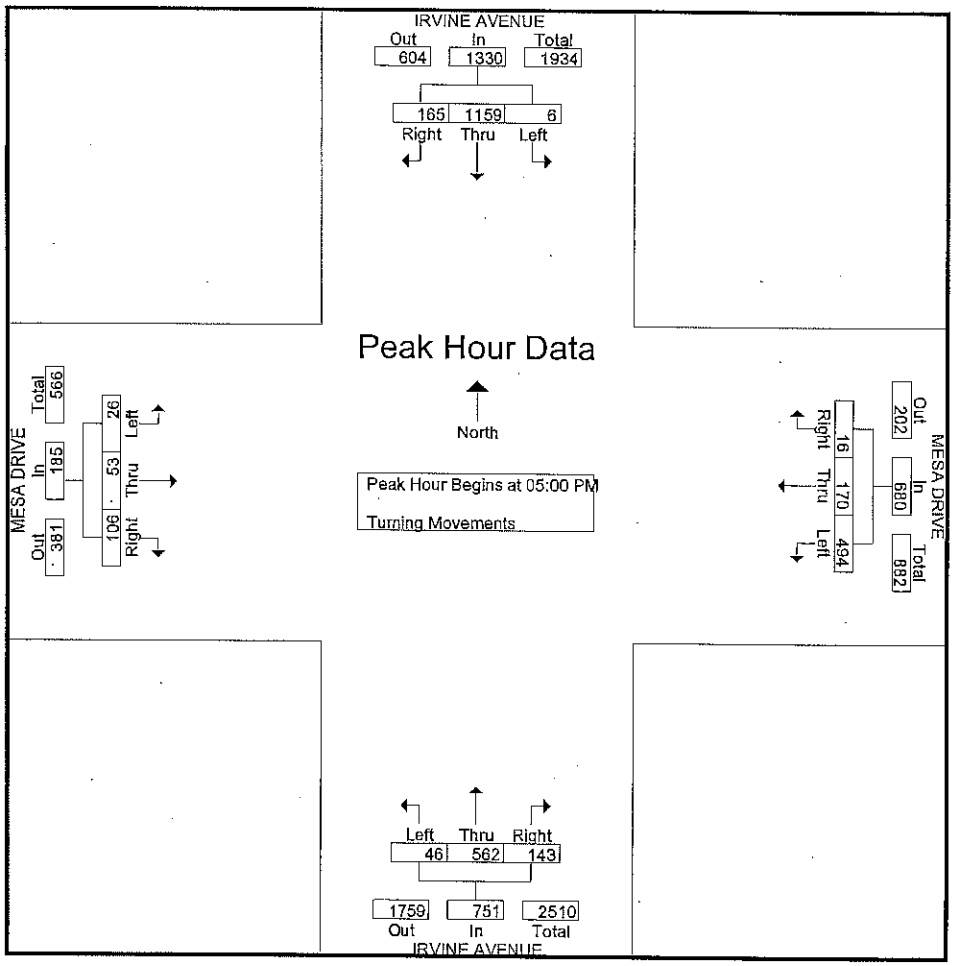
File Name : H1104038
Site Code : 00005053
Start Date : 4/20/2011
Page No : 3

	IRVINE AVENUE Southbound				MESA DRIVE Westbound				IRVINE AVENUE Northbound				MESA DRIVE Eastbound				
Start Time	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Right	Thru	Left	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 06:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	25	236	0	261	7	38	112	157	**40**	**144**	**18**	**202**	26	**15**	6	**47**	667
05:15 PM	**54**	294	0	348	2	**45**	**147**	**194**	38	142	14	194	28	11	6	45	781
05:30 PM	54	**340**	4	**398**	4	45	119	168	27	141	10	178	21	15	**10**	46	**790**
05:45 PM	32	289	2	323	3	42	116	161	38	135	4	177	**31**	12	4	47	708
Total Volume	165	1159	6	1330	16	170	494	680	143	562	46	751	106	53	26	185	2946
% App. Total	12.4	87.1	0.5		2.4	25	72.6		19	74.8	6.1		57.3	28.6	14.1		
PHF	.764	.852	.375	.835	.571	.944	.840	.876	.894	.976	.639	.929	.855	.883	.650	.984	.932



ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

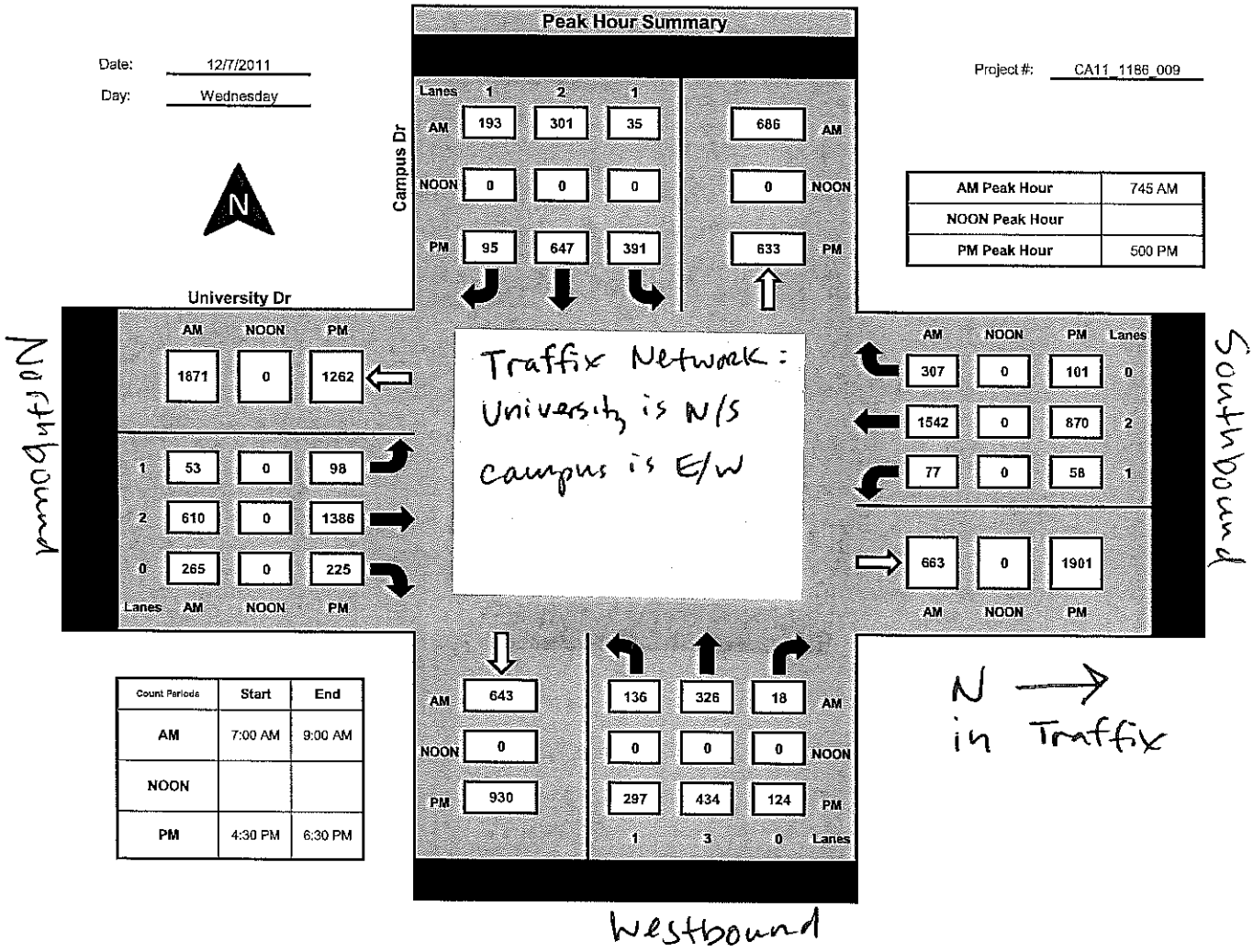
Eastbound

Campus Dr and University Dr , City of Irvine

Date: 12/7/2011

Day: Wednesday

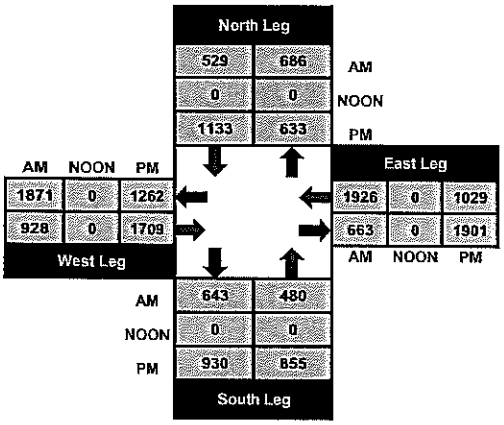
Project #: CA11_1186_009



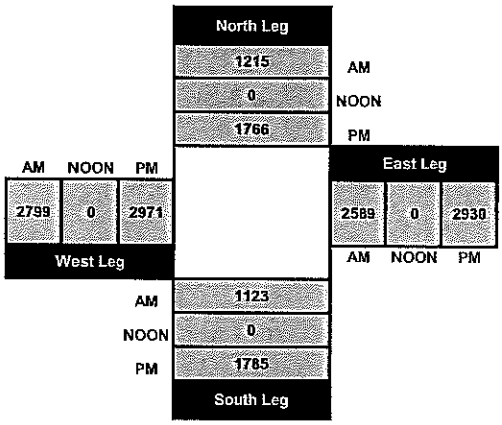
AM Peak Hour	745 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_009

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Campus Dr			Campus Dr			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 3	NR 0	SL 1	ST 2	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
7:00 AM	27	38	1	2	73	22	6	64	45	8	166	16	468
7:15 AM	33	72	1	3	79	29	7	82	61	18	210	25	620
7:30 AM	38	74	0	4	101	35	15	124	79	29	292	47	838
7:45 AM	42	83	4	8	104	54	7	137	87	23	358	59	966
8:00 AM	30	75	7	10	70	44	18	161	66	33	377	87	978
8:15 AM	40	85	5	9	63	62	19	165	55	8	407	84	1002
8:30 AM	24	83	2	8	64	33	9	147	57	13	400	77	917
8:45 AM	45	76	3	13	69	39	11	81	50	12	380	75	854
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	279	586	23	57	623	318	92	961	500	144	2590	470	6643
APPROACH %'s :	31.42%	65.99%	2.59%	5.71%	62.42%	31.86%	5.92%	61.88%	32.20%	4.49%	80.84%	14.67%	
PEAK HR START TIME :	745 AM												
	WBL	WBT	WBL	EBL	EBT	EBR	NBL	NBT	NBR	SBL	SBT	SBR	TOTAL
PEAK HR VOL :	136	326	18	35	301	193	53	610	265	77	1542	307	3863
PEAK HR FACTOR :		0.923			0.797			0.947			0.965		0.964

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_009

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Campus Dr			Campus Dr			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 3	NR 0	SL 1	ST 2	SR 1	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL
4:30 PM	55	85	21	51	80	14	31	299	74	12	165	11	898
4:45 PM	85	87	18	51	154	13	26	276	68	12	116	17	923
5:00 PM	71	116	30	85	146	24	26	391	61	10	188	19	1167
5:15 PM	107	119	40	114	185	31	30	372	52	9	244	29	1332
5:30 PM	43	94	27	102	140	16	23	328	53	21	204	20	1071
5:45 PM	76	105	27	90	176	24	19	295	59	18	234	33	1156
6:00 PM	71	103	40	65	118	21	27	307	67	19	176	25	1039
6:15 PM	92	118	26	60	159	26	24	305	89	14	182	18	1113
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	600	827	229	618	1158	169	206	2573	523	115	1509	172	8699
APPROACH %'s :	36.23%	49.94%	13.83%	31.77%	59.54%	8.69%	6.24%	77.92%	15.84%	6.40%	84.02%	9.58%	
PEAK HR START TIME :	500 PM												TOTAL
	WL	WT	WR	EL	ET	ER	NL	NT	NR	SL	ST	SR	
PEAK HR VOL :	297	434	124	391	647	95	98	1386	225	58	870	101	4726
PEAK HR FACTOR :		0.804			0.858			0.894			0.903		0.887

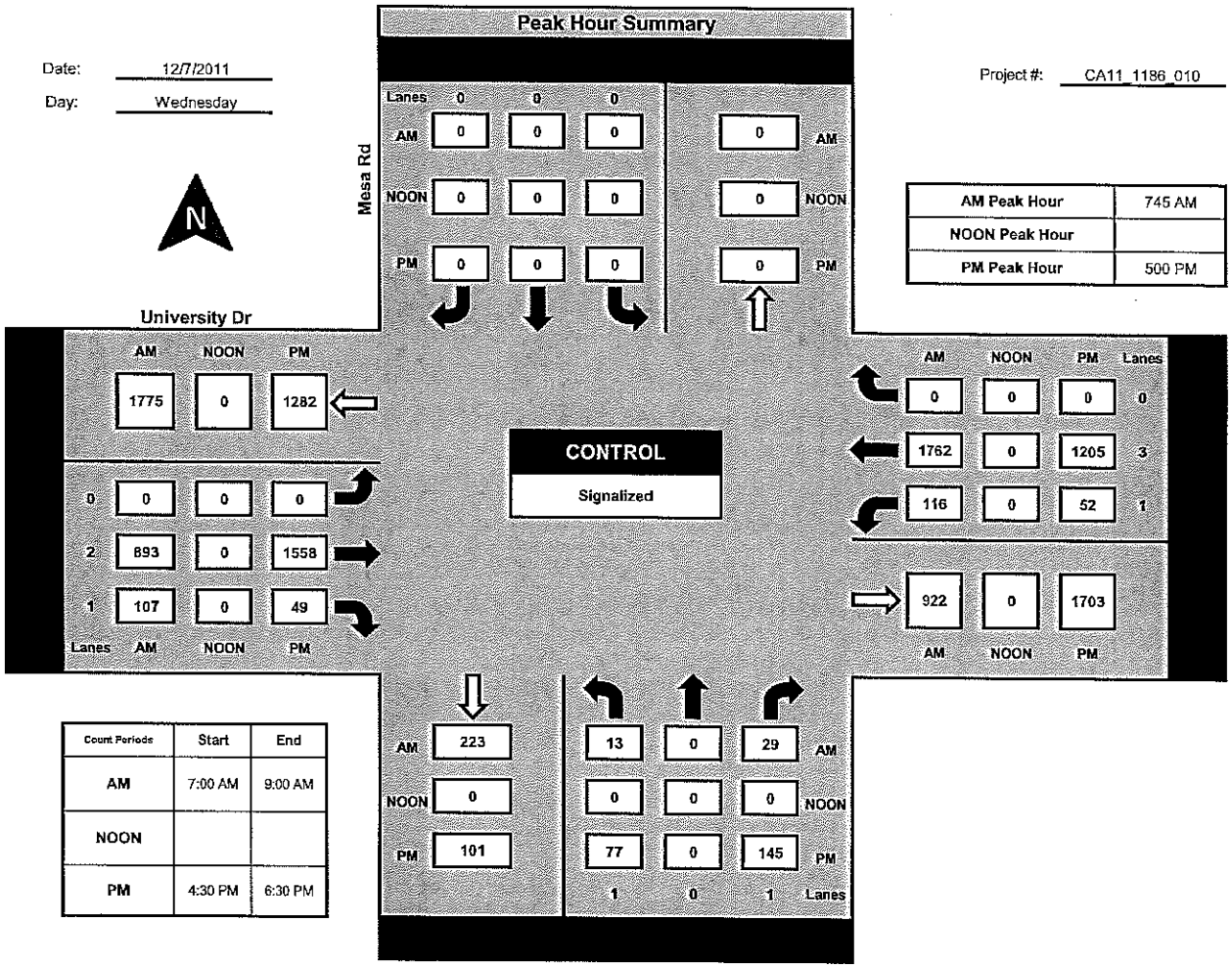
CONTROL : Signalized

ITM Peak Hour Summary

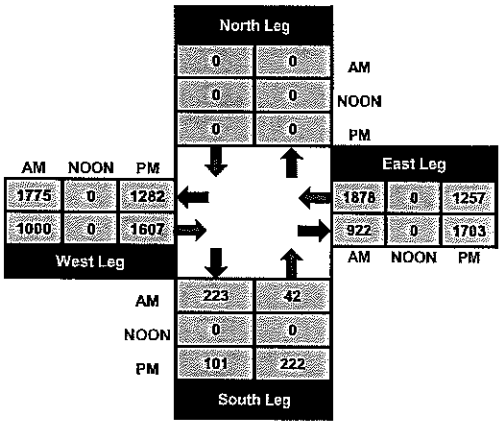
Prepared by:

National Data & Surveying Services

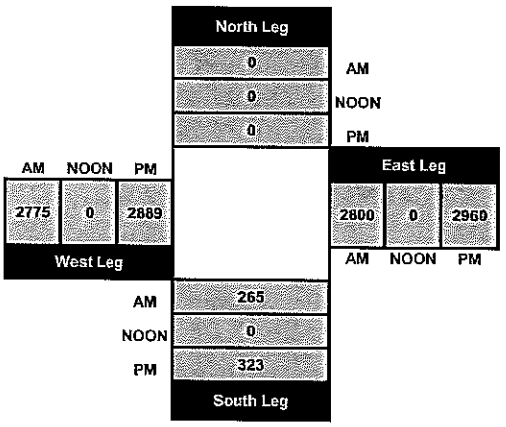
Mesa Rd and University Dr , City of Irvine



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_010

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	Mesa Rd			Mesa Rd			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 3	WR 0	TOTAL
7:00 AM	1		3					110	24	14	200		352
7:15 AM	2		6					145	30	23	247		453
7:30 AM	0		17					201	25	45	315		603
7:45 AM	2		4					227	29	32	428		722
8:00 AM	3		7					237	31	24	424		726
8:15 AM	4		13					227	23	34	477		778
8:30 AM	4		5					202	24	26	433		694
8:45 AM	2		8					140	18	22	444		634
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	18	0	63	0	0	0	0	1489	204	220	2968	0	4962
APPROACH %'s :	22.22%	0.00%	77.78%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	87.95%	12.05%	6.90%	93.10%	0.00%	
PEAK HR START TIME :	745 AM												TOTAL
PEAK HR VOL :	13	0	29	0	0	0	0	893	107	116	1762	0	2920
PEAK HR FACTOR :		0.618			0.000			0.933			0.919		0.938

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_010

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

NS/EW Streets:	Mesa Rd			Mesa Rd			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 0	NR 1	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 3	WR 0	TOTAL
4:30 PM	15		42					358	8	14	216		653
4:45 PM	14		24					346	10	12	197		603
5:00 PM	26		40					439	9	14	275		803
5:15 PM	23		37					412	15	16	359		862
5:30 PM	16		37					372	9	13	256		703
5:45 PM	12		31					335	16	9	315		718
6:00 PM	12		23					386	13	10	247		691
6:15 PM	23		38					373	13	20	271		738
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	141	0	272	0	0	0	0	3021	93	108	2136	0	5771
APPROACH %'s :	34.14%	0.00%	65.86%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	97.01%	2.99%	4.81%	95.19%	0.00%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	77	0	145	0	0	0	0	1558	49	52	1205	0	3086
PEAK HR FACTOR :		0.841			0.000			0.897			0.838		0.895

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

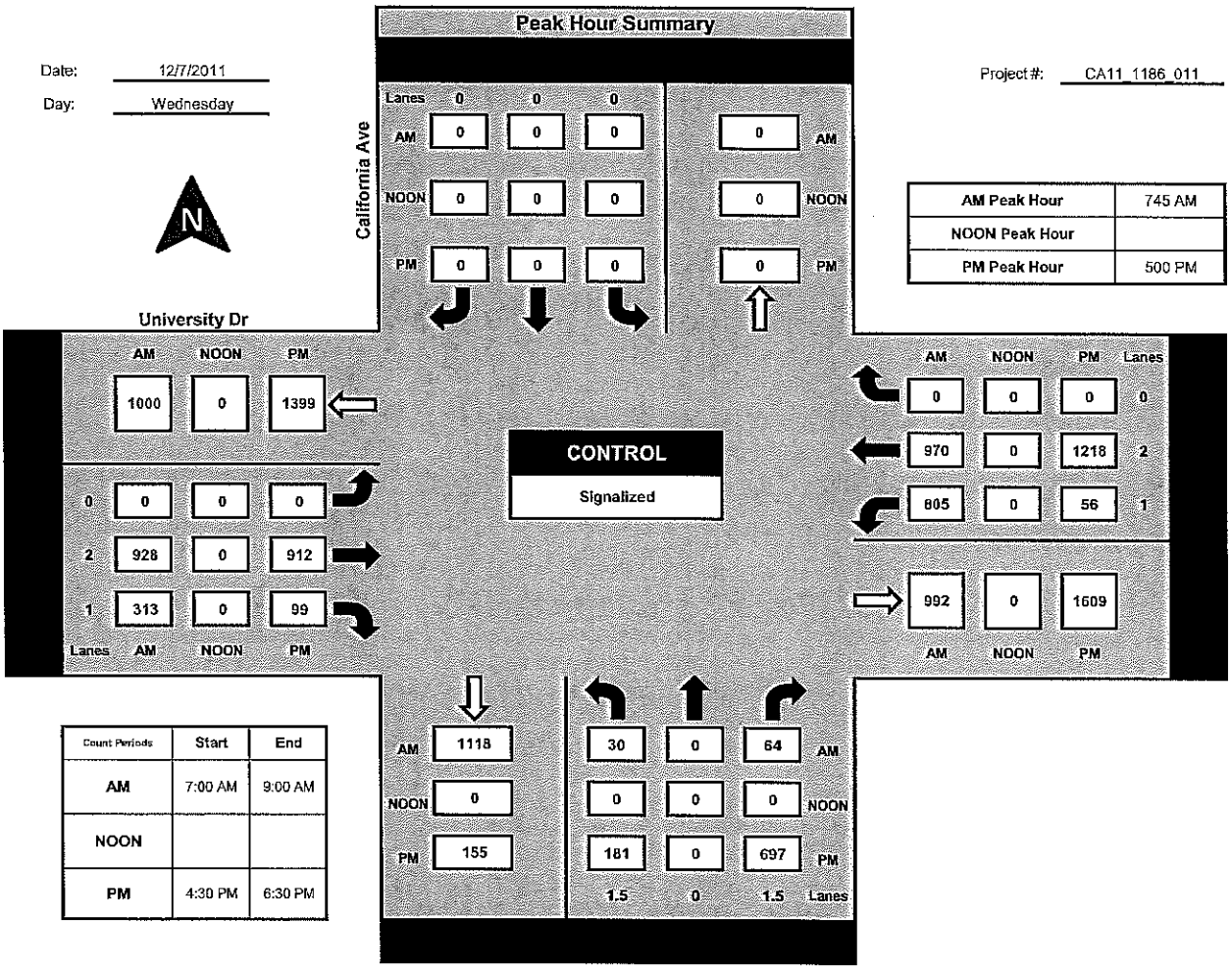
California Ave and University Dr , City of Irvine

Date: 12/7/2011

Day: Wednesday

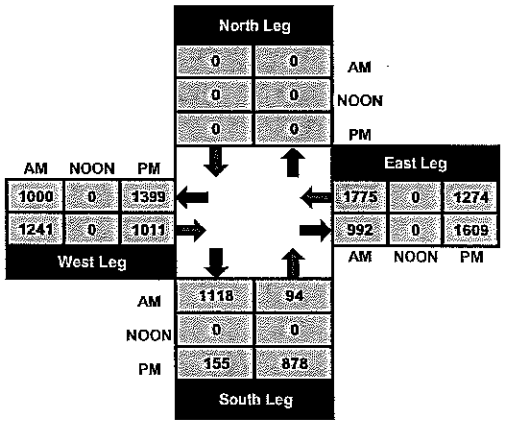
Project #: CA11_1186_011

AM Peak Hour	745 AM
NOON Peak Hour	
PM Peak Hour	500 PM



Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:30 PM	6:30 PM

Total Ins & Outs



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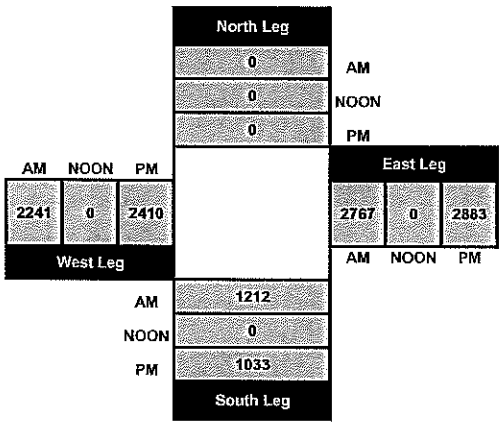


Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_011

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

AM

NS/EW Streets:	California Ave			California Ave			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1.5	NT 0	NR 1.5	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
7:00 AM	4		8					124	33	77	122		368
7:15 AM	6		10					167	70	95	156		504
7:30 AM	8		6					219	64	121	186		604
7:45 AM	8		10					247	83	183	254		785
8:00 AM	6		13					251	90	200	221		781
8:15 AM	9		20					234	72	219	268		822
8:30 AM	7		21					196	68	203	227		722
8:45 AM	10		16					151	79	229	224		709
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	58	0	104	0	0	0	0	1589	559	1327	1658	0	5295
APPROACH %'s :	35.80%	0.00%	64.20%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	73.98%	26.02%	44.46%	55.54%	0.00%	
PEAK HR START TIME :	745 AM												TOTAL
PEAK HR VOL :	30	0	64	0	0	0	0	928	313	805	970	0	3110
PEAK HR FACTOR :		0.810			0.000			0.910			0.911		0.946

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: CA11_1186_011

Day: WEDNESDAY

City: City of Irvine

Date: 12/07/2011

PM

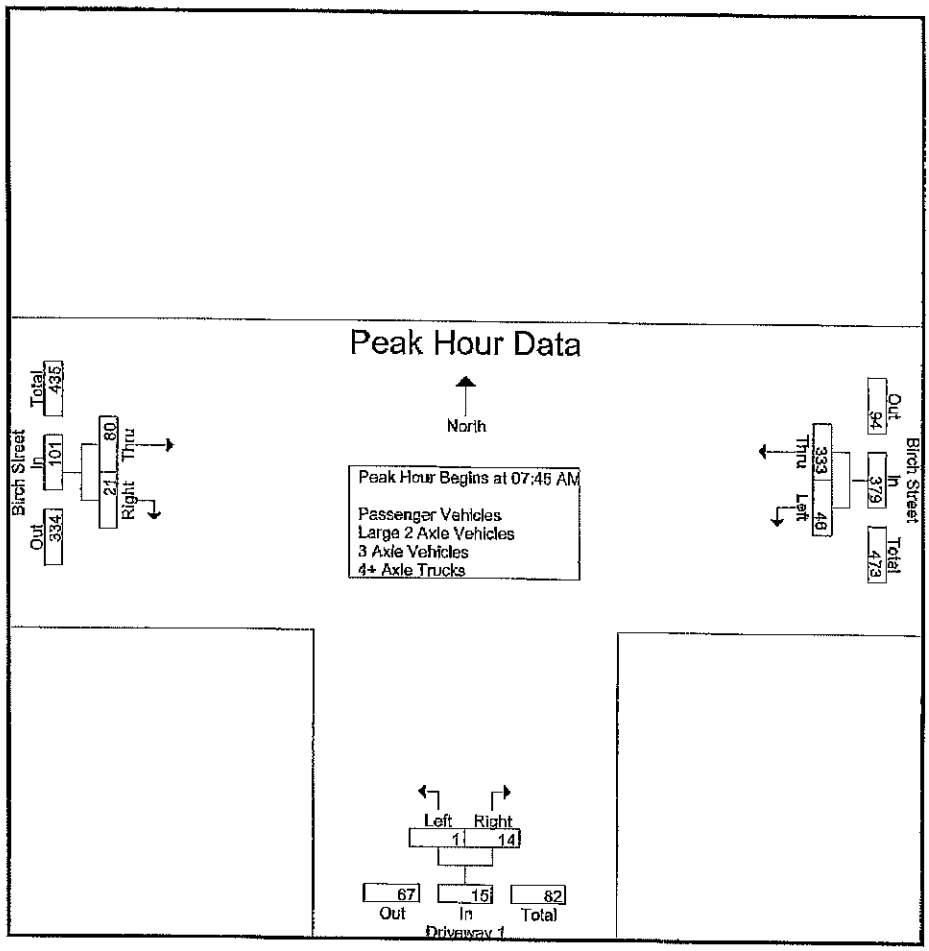
NS/EW Streets:	California Ave			California Ave			University Dr			University Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1.5	NT 0	NR 1.5	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
4:30 PM	27		123					235	13	27	201		626
4:45 PM	24		123					230	17	4	205		603
5:00 PM	59		230					222	7	12	291		821
5:15 PM	46		150					268	23	24	356		867
5:30 PM	53		165					225	45	11	263		762
5:45 PM	23		152					197	24	9	308		713
6:00 PM	37		170					231	14	13	256		721
6:15 PM	29		144					240	12	10	273		708
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	298	0	1257	0	0	0	0	1848	155	110	2153	0	5821
APPROACH %'s :	19.16%	0.00%	80.84%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	92.26%	7.74%	4.86%	95.14%	0.00%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	181	0	697	0	0	0	0	912	99	56	1218	0	3163
PEAK HR FACTOR :		0.760			0.000			0.869			0.838		0.912

CONTROL : Signalized

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irvine
N/S: Driveway 1
E/W: Birch Street
Weather: Sunny

File Name : IRVDW1BIAM
Site Code : 00000066
Start Date : 3/22/2011
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

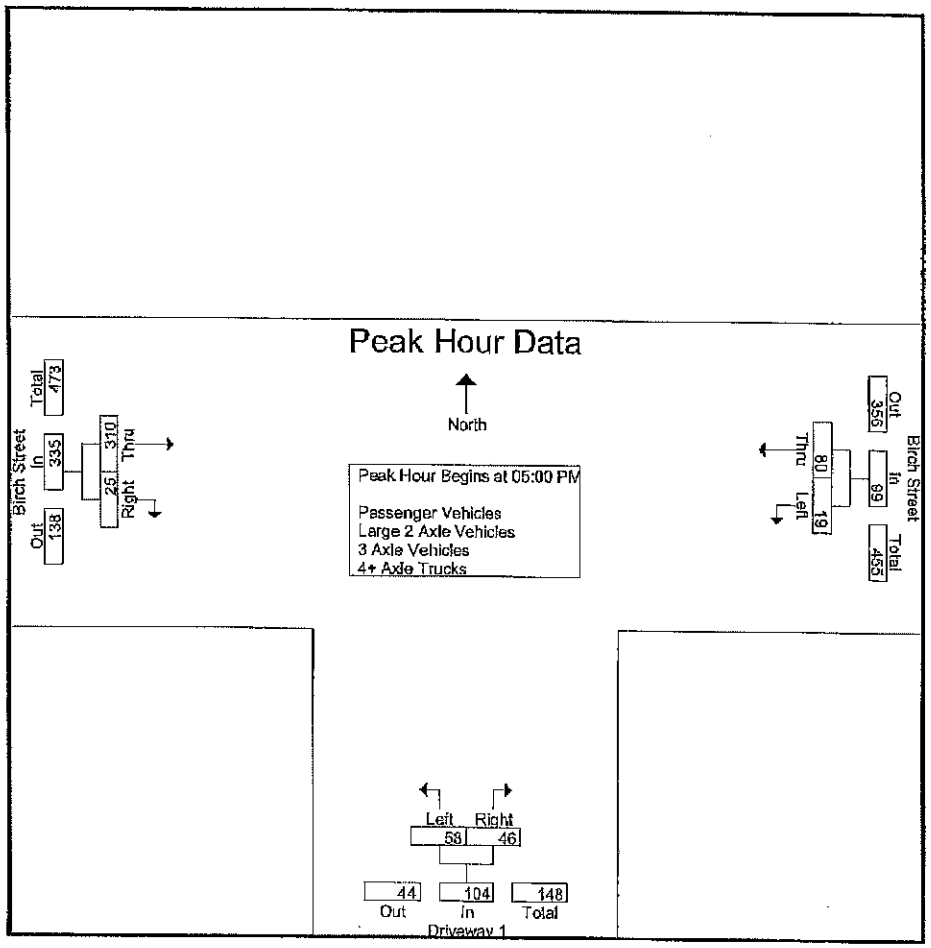
Peak Hour for Each Approach Begins at:

	07:45 AM			07:00 AM			07:30 AM		
+0 mins.	10	81	91	2	5	7	17	6	23
+15 mins.	15	80	95	0	1	1	25	3	28
+30 mins.	10	79	89	1	6	7	16	4	20
+45 mins.	11	93	104	1	3	4	21	13	34
Total Volume	46	333	379	4	15	19	79	26	105
% App. Total	12.1	87.9		21.1	78.9		75.2	24.8	
PHF	.767	.895	.911	.500	.625	.679	.790	.500	.772

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irvine
N/S: Driveway 1
E/W: Birch Street
Weather: Sunny

File Name : IRVDW1BIPM
Site Code : 00000066
Start Date : 3/22/2011
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:15 PM			05:00 PM			04:30 PM		
+0 mins.	4	27	31	2	8	10	70	2	72
+15 mins.	8	25	33	5	7	12	65	3	68
+30 mins.	2	26	28	28	15	43	105	8	113
+45 mins.	9	21	30	23	16	39	77	14	91
Total Volume	23	99	122	58	46	104	317	27	344
% App. Total	18.9	81.1		55.8	44.2		92.2	7.8	
PHF	.639	.917	.924	.518	.719	.605	.755	.482	.761