

Appendix F1

Traffic Survey Data

Project #22-318 - Dillon Consulting

Intersection Count Report

Intersection:	Division St & Hwy 401 South Ramp Terminal
Municipality:	Kingston
Count Date:	Tuesday, Sep 20, 2022
Site Code:	2231800001
Count Categories:	Cars, Trucks, Bicycles, Pedestrians
Count Period:	07:00-10:00, 11:00-13:00, 15:00-18:00
Weather:	Clear
Comments:	



Ontario Traffic Inc.
Traffic Monitoring • Services & Products

Traffic Count Map

Intersection:	Division St & Hwy 401 South Ramp Terminal
Site Code:	2231800001
Municipality:	Kingston
Count Date:	Sep 20, 2022





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Traffic Count Summary

Intersection: Division St & Hwy 401 South Ramp
Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

Division St - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	48	658	0	0	706	0	0	330	133	0	463	0	1169
08:00 - 09:00	34	609	0	0	643	0	0	500	194	0	694	0	1337
09:00 - 10:00	27	425	0	0	452	0	0	344	145	0	489	1	941
BREAK													
11:00 - 12:00	16	396	0	0	412	0	0	456	180	0	636	0	1048
12:00 - 13:00	16	460	0	0	476	0	0	461	220	0	681	0	1157
BREAK													
15:00 - 16:00	23	435	0	0	458	0	0	778	284	0	1062	0	1520
16:00 - 17:00	22	429	0	0	451	0	0	999	309	0	1308	0	1759
17:00 - 18:00	21	365	0	0	386	0	0	813	332	0	1145	0	1531
GRAND TOTAL	207	3777	0	0	3984	0	0	4681	1797	0	6478	1	10462



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Traffic Count Summary

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

Hwy 401 South Ramp Terminal - Traffic Summary

Hour	East Approach Totals						West Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	0	0	0	0	0	77	0	458	0	535	0	535
08:00 - 09:00	0	0	0	0	0	2	67	0	451	0	518	0	518
09:00 - 10:00	0	0	0	0	0	2	80	0	298	0	378	0	378
BREAK													
11:00 - 12:00	0	0	0	0	0	0	61	0	274	0	335	0	335
12:00 - 13:00	0	0	0	0	0	0	87	1	305	0	393	0	393
BREAK													
15:00 - 16:00	0	0	0	0	0	1	120	3	332	0	455	0	455
16:00 - 17:00	0	0	0	0	0	0	113	2	377	0	492	0	492
17:00 - 18:00	0	0	0	0	0	0	107	0	349	0	456	0	456
GRAND TOTAL	0	0	0	0	0	5	712	6	2844	0	3562	0	3562

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
 Site Code: 2231800001
 Municipality: Kingston
 Count Date: Sep 20, 2022

North Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	4	107	0	0	111	1	3	0	0	4	0	0	0	0	0	0
07:15	6	163	0	0	169	0	4	0	0	4	0	0	0	0	0	0
07:30	15	180	0	0	195	2	8	0	0	10	0	0	0	0	0	0
07:45	20	181	0	0	201	0	17	0	0	17	0	0	0	0	0	0
08:00	9	176	0	0	185	0	8	0	0	8	0	0	0	0	0	0
08:15	10	150	0	0	160	0	16	0	0	16	0	0	0	0	0	0
08:30	5	130	0	0	135	1	9	0	0	10	0	1	0	0	1	0
08:45	9	114	0	0	123	0	5	0	0	5	0	0	0	0	0	0
09:00	6	111	0	0	117	3	3	0	0	6	0	0	0	0	0	0
09:15	5	106	0	0	111	0	8	0	0	8	0	0	0	0	0	0
09:30	5	98	0	0	103	0	6	0	0	6	0	1	0	0	1	0
09:45	7	88	0	0	95	1	4	0	0	5	0	0	0	0	0	0
SUBTOTAL	101	1604	0	0	1705	8	86	0	0	94	0	2	0	0	2	0

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
 Site Code: 2231800001
 Municipality: Kingston
 Count Date: Sep 20, 2022

North Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	6	74	0	0	80	0	9	0	0	9	0	0	0	0	0	0
11:15	6	89	0	0	95	0	13	0	0	13	0	0	0	0	0	0
11:30	2	106	0	0	108	0	7	0	0	7	0	0	0	0	0	0
11:45	7	86	0	0	88	0	17	0	0	17	0	0	0	0	0	0
12:00	4	110	0	0	114	0	12	0	0	12	0	0	0	0	0	0
12:15	6	90	0	0	96	0	10	0	0	10	0	1	0	0	1	0
12:30	3	111	0	0	114	0	10	0	0	10	0	1	0	0	1	0
12:45	3	105	0	0	108	0	7	0	0	7	0	3	0	0	3	0
SUBTOTAL	32	771	0	0	803	0	80	0	0	80	0	5	0	0	5	0

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

North Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	5	86	0	0	91	0	6	0	0	6	0	0	0	0	0	0
15:15	6	87	0	0	93	3	9	0	0	12	0	0	0	0	0	0
15:30	8	126	0	0	134	0	6	0	0	6	0	0	0	0	0	0
15:45	1	108	0	0	109	0	7	0	0	7	0	0	0	0	0	0
16:00	8	119	0	0	127	0	5	0	0	5	0	0	0	0	0	0
16:15	5	90	0	0	95	0	7	0	0	7	0	0	0	0	0	0
16:30	6	104	0	0	110	0	5	0	0	5	0	0	0	0	0	0
16:45	3	94	0	0	97	0	5	0	0	5	0	0	0	0	0	0
17:00	7	103	0	0	110	0	6	0	0	6	0	0	0	0	0	0
17:15	3	91	0	0	94	0	3	0	0	3	0	0	0	0	0	0
17:30	8	77	0	0	85	0	4	0	0	4	0	0	0	0	0	0
17:45	3	79	0	0	82	0	1	0	0	1	0	1	0	0	1	0
SUBTOTAL	63	1164	0	0	1227	3	64	0	0	67	0	1	0	0	1	0
GRAND TOTAL	196	3539	0	0	3735	11	230	0	0	241	0	8	0	0	8	0

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
 Site Code: 2231800001
 Municipality: Kingston
 Count Date: Sep 20, 2022

South Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	0	71	26	0	97	0	6	1	0	7	0	1	0	0	1	0
07:15	0	62	35	0	97	0	5	4	0	9	0	0	0	0	0	0
07:30	0	73	27	0	100	0	12	4	0	16	0	0	0	0	0	0
07:45	0	91	36	0	127	0	9	0	0	9	0	0	0	0	0	0
08:00	0	117	41	0	158	0	8	3	0	11	0	0	0	0	0	0
08:15	0	114	53	0	167	0	23	5	0	28	0	0	0	0	0	0
08:30	0	103	41	0	144	0	16	5	0	21	0	0	0	0	0	0
08:45	0	103	44	0	147	0	16	2	0	18	0	0	0	0	0	0
09:00	0	95	33	0	128	0	12	8	0	20	0	0	0	0	0	0
09:15	0	71	33	0	104	0	7	2	0	9	0	0	0	0	0	0
09:30	0	69	27	0	96	0	6	7	0	13	0	0	0	0	0	1
09:45	0	77	31	0	108	0	7	4	0	11	0	0	0	0	0	0
SUBTOTAL	0	1046	427	0	1473	0	177	45	0	172	0	1	0	0	1	1

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
 Site Code: 2231800001
 Municipality: Kingston
 Count Date: Sep 20, 2022

South Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	0	90	38	0	128	0	11	1	0	12	0	0	0	0	0	0
11:15	0	101	45	0	146	0	7	3	0	10	0	0	0	0	0	0
11:30	0	120	43	0	163	0	14	1	0	15	0	0	0	0	0	0
11:45	0	106	46	0	152	0	7	3	0	10	0	0	0	0	0	0
12:00	0	100	42	0	142	0	8	5	0	13	0	1	0	0	1	0
12:15	0	109	50	0	159	0	10	4	0	14	0	0	0	0	0	0
12:30	0	112	61	0	173	0	6	2	0	8	0	0	0	0	0	0
12:45	0	106	54	0	160	0	8	2	0	10	0	1	0	0	1	0
SUBTOTAL	0	844	379	0	1223	0	71	21	0	92	0	2	0	0	2	0

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

South Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	0	196	55	0	251	0	10	2	0	12	0	0	0	0	0	0
15:15	0	185	72	0	257	0	6	3	0	9	0	0	0	0	0	0
15:30	0	158	71	0	229	0	7	3	0	10	0	1	0	0	1	0
15:45	0	207	74	0	281	0	8	4	0	12	0	0	0	0	0	0
16:00	0	189	60	0	249	0	5	0	0	5	0	0	0	0	0	0
16:15	0	241	89	0	330	0	7	3	0	10	0	0	0	0	0	0
16:30	0	271	76	0	347	0	4	3	0	7	0	1	0	0	1	0
16:45	0	276	76	0	352	0	5	2	0	7	0	0	0	0	0	0
17:00	0	235	103	0	338	0	4	1	0	5	0	1	0	0	1	0
17:15	0	223	91	0	314	0	3	1	0	4	0	1	0	0	1	0
17:30	0	177	67	0	244	0	2	2	0	4	0	1	0	0	1	0
17:45	0	165	65	0	230	0	1	2	0	3	0	0	0	0	0	0
SUBTOTAL	0	2523	899	0	3422	0	62	26	0	88	0	5	0	0	5	0
GRAND TOTAL	0	4413	1705	0	6118	0	260	92	0	352	0	8	0	0	8	1



Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

	Cars						Trucks						Bicycles							
Start Time					Total					Total					Total	Total Peds				
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
07:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
09:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4				



Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

Site Code: 2231800001

Municipality: Kingston

Count Date: Sep 20, 2022

	Cars						Trucks						Bicycles							
Start Time					Total						Total						Total	Total Peds		
11:00	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
11:15	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
11:30	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
11:45	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:00	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:15	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:30	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:45	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
SUBTOTAL	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		



Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

[illegible]

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
 Site Code: 2231800001
 Municipality: Kingston
 Count Date: Sep 20, 2022

West Approach - Hwy 401 South Ramp Terminal

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	19	0	73	0	92	4	0	11	0	15	0	0	0	0	0	0
07:15	13	0	94	0	107	5	0	6	0	11	0	0	0	0	0	0
07:30	15	0	127	0	142	6	0	6	0	12	0	0	0	0	0	0
07:45	17	0	135	0	147	3	0	6	0	9	0	0	0	0	0	0
08:00	15	0	113	0	128	4	0	12	0	16	0	0	0	0	0	0
08:15	15	0	97	0	112	7	0	6	0	8	0	0	0	0	0	0
08:30	14	0	112	0	126	4	0	5	0	9	0	0	0	0	0	0
08:45	13	0	103	0	116	0	0	3	0	3	0	0	0	0	0	0
09:00	10	0	65	0	75	0	0	3	0	3	0	0	0	0	0	0
09:15	18	0	81	0	99	1	0	9	0	10	0	0	0	0	0	0
09:30	22	0	69	0	91	4	0	5	0	9	0	0	0	0	0	0
09:45	21	0	62	0	83	4	0	4	0	8	0	0	0	0	0	0
SUBTOTAL	187	0	1131	0	1318	37	0	76	0	113	0	0	0	0	0	0

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
 Site Code: 2231800001
 Municipality: Kingston
 Count Date: Sep 20, 2022

West Approach - Hwy 401 South Ramp Terminal

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	17	0	59	0	76	2	0	6	0	8	0	0	0	0	0	0
11:15	14	0	65	0	79	2	0	2	0	4	0	0	0	0	0	0
11:30	10	0	66	0	76	2	0	6	0	8	0	0	0	0	0	0
11:45	13	0	65	0	78	1	0	5	0	6	0	0	0	0	0	0
12:00	22	0	78	0	100	4	0	2	0	6	0	0	0	0	0	0
12:15	14	0	80	0	94	1	0	4	0	5	0	0	0	0	0	0
12:30	21	0	85	0	106	2	0	2	0	4	0	0	0	0	0	0
12:45	19	1	52	0	72	4	0	2	0	6	0	0	0	0	0	0
SUBTOTAL	130	1	550	0	681	18	0	29	0	47	0	0	0	0	0	0

Traffic Count Data

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Municipality: Kingston
Count Date: Sep 20, 2022

West Approach - Hwy 401 South Ramp Terminal

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	29	1	86	0	116	4	0	3	0	7	0	0	0	0	0	0
15:15	25	0	64	0	89	3	0	1	0	4	0	0	0	0	0	0
15:30	26	2	76	0	104	3	0	3	0	6	0	0	0	0	0	0
15:45	29	0	96	0	125	1	0	1	0	4	0	0	0	0	0	0
16:00	24	0	87	0	111	3	0	5	0	8	0	0	0	0	0	0
16:15	26	0	78	0	104	3	0	1	0	6	0	0	0	0	0	0
16:30	35	0	101	0	136	4	0	6	0	10	0	0	0	0	0	0
16:45	15	1	90	0	106	3	1	7	0	11	0	0	0	0	0	0
17:00	35	0	85	0	120	5	0	3	0	8	0	0	0	0	0	0
17:15	22	0	94	0	116	3	0	2	0	5	0	0	0	0	0	0
17:30	19	0	85	0	104	2	0	2	0	4	0	0	0	0	0	0
17:45	21	0	74	0	95	0	0	4	0	4	0	0	0	0	0	0
SUBTOTAL	306	4	1016	0	1326	34	1	47	0	77	0	0	0	0	0	0
GRAND TOTAL	623	5	2697	0	3325	89	1	147	0	237	0	0	0	0	0	0

Peak Hour Diagram

Specified Period

From: 07:00:00
To: 10:00:00

One Hour Peak

From: 07:30:00
To: 08:30:00

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Count Date: Sep 20, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Division St runs N/S

North Approach

	Out	In	Total
	741	452	1193
	46	67	113
	0	0	0
Totals	787	519	1306

Division St

	0	0	0
	44	2	0
	687	54	0
Totals	731	56	0

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East Approach

	Out	In	Total
	0	211	211
	0	14	14
	0	0	0
Totals	0	225	225

Hwy 401 South Ramp Terminal

				Totals
	0	15	57	72
	0	0	0	0
	0	30	472	502

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Peds: 0



Peds: 0

Hwy 401 South Ramp Terminal

Totals			

West Approach

	Out	In	Total
	529	0	529
	45	0	45
	0	0	0
Totals	574	0	574

Totals	447	169	0
	395	157	0
	52	12	0
	0	0	0

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Division St

South Approach

	Out	In	Total
	552	1159	1711
	64	74	138
	0	0	0
Totals	616	1233	1849

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Count Date: Sep 20, 2022
Period: 07:00 - 10:00

Peak Hour Data (07:30 - 08:30)

Start Time	North Approach Division St						South Approach Division St						East Approach Hwy 401 South Ramp Terminal						West Approach Hwy 401 South Ramp Terminal						Total Vehicles
	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	
07:30	17	188		0	0	205		85	31	0	0	116					0	0	21	0	133		0	154	475
07:45	20	193		0	0	213		100	36	0	0	136					0	0	15	0	141		0	156	505
08:00	9	184		0	0	193		125	44	0	0	169					2	0	19	0	125		0	144	506
08:15	10	166		0	0	176		137	58	0	0	195					0	0	17	0	103		0	120	491
Grand Total	56	731		0	0	787		447	169	0	0	616					2	0	72	0	502		0	574	1977
Approach %	7.1	92.9		0	-	-		72.6	27.4	0	-	-					-	-	32.5	0	87.5		-	-	-
Totals %	2.8	37		0		39.8		22.6	8.5	0		31.2					0		3.6	0	25.4			29	
PHF	0.7	0.95		0		0.92		0.82	0.73	0		0.79					0		0.86	0	0.89			0.92	0.98
Cars	54	687		0		741		395	157	0		552					0		57	0	477			529	1822
% Cars	96.4	94		0		94.2		88.4	92.9	0		89.6					0		79.2	0	94			92.2	92.2
Trucks	2	44		0		46		52	12	0		64					0		15	0	30			45	155
% Trucks	3.6	6		0		5.8		11.6	7.1	0		10.4					0		20.8	0	6			7.8	7.8
Bicycles	0	0		0		0		0	0	0		0					0		0	0	0			0	0
% Bicycles	0	0		0		0		0	0	0		0					0		0	0	0			0	0
Peds					0	-					0	-					2	-					0	-	2
% Peds					0	-					0	-					100	-					0	-	



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Peak Hour Diagram

Specified Period

From: 11:00:00
To: 13:00:00

One Hour Peak

From: 12:00:00
To: 13:00:00

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Count Date: Sep 20, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Division St runs N/S

North Approach

	Out	In	Total
	432	503	935
	39	43	82
	5	2	7
Totals	476	548	1024

Division St

	5	0	0
	39	0	0
	416	16	0
Totals	460	16	0

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East Approach

	Out	In	Total
	0	224	224
	0	13	13
	0	0	0
Totals	0	237	237

Hwy 401 South Ramp Terminal

				Totals
	0	11	76	87
	0	0	1	1
	0	10	295	305

↗ ↘ ↓

Peds: 0



Peds: 0

Hwy 401 South Ramp Terminal

Totals			

West Approach

	Out	In	Total
	372	0	372
	21	0	21
	0	0	0
Totals	393	0	393

Totals	461	220	0
	427	207	0
	32	13	0
	2	0	0

↑ ↘ ↻

Division St

South Approach

	Out	In	Total
	634	711	1345
	45	49	94
	2	5	7
Totals	681	765	1446

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Count Date: Sep 20, 2022
Period: 11:00 - 13:00

Peak Hour Data (12:00 - 13:00)

	North Approach Division St						South Approach Division St						East Approach Hwy 401 South Ramp Terminal						West Approach Hwy 401 South Ramp Terminal						Total Vehicles
Start Time					Peds	Total					Peds	Total					Peds	Total					Peds	Total	
12:00	4	122		0	0	126		109	47	0	0	156					0	0	26	0	80		0	106	388
12:15	6	101		0	0	107		119	54	0	0	173					0	0	15	0	84		0	99	379
12:30	3	122		0	0	125		118	63	0	0	181					0	0	23	0	87		0	110	416
12:45	3	115		0	0	118		115	56	0	0	171					0	0	23	1	54		0	78	367
Grand Total	16	460		0	0	476		461	220	0	0	681					0	0	87	1	305		0	393	1550
Approach %	3.4	96.6		0	-	-		67.7	32.3	0	-	-					-	-	22.1	0.3	77.6		-	-	-
Totals %	1	29.7		0	-	30.7		29.7	14.2	0	-	43.9					0	-	5.6	0.1	19.7		-	25.4	-
PHF	0.67	0.94		0	-	0.94		0.97	0.87	0	-	0.94					0	-	0.84	0.25	0.88		0.89	0.93	0.93
Cars	16	416		0	-	432		477	207	0	-	684					0	-	76	1	295		372	1438	1438
% Cars	100	90.4		0	-	90.8		92.6	94.1	0	-	93.1					0	-	87.4	100	96.7		94.7	92.8	92.8
Trucks	0	39		0	-	39		32	13	0	-	45					0	-	11	0	10		21	105	105
% Trucks	0	8.5		0	-	8.2		6.9	5.9	0	-	6.6					0	-	12.6	0	3.3		5.3	6.8	6.8
Bicycles	0	5		0	-	5		2	0	0	-	2					0	-	0	0	0		0	7	7
% Bicycles	0	1.1		0	-	1.1		0.4	0	0	-	0.3					0	-	0	0	0		0	0.5	0.5
Peds					0	-					0	-						0	-				0	-	0
% Peds					0	-					0	-						0	-				0	-	0

Peak Hour Diagram

Specified Period

From: 15:00:00
To: 18:00:00

One Hour Peak

From: 16:15:00
To: 17:15:00

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Count Date: Sep 20, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Division St runs N/S

North Approach

	Out	In	Total
	412	1134	1546
	23	35	58
	0	2	2
Totals	435	1171	1606

Division St

	0	0	0
	23	0	0
	391	21	0
Totals	414	21	0

↓ ↘ ↻

East Approach

	Out	In	Total
	0	366	366
	0	10	10
	0	0	0
Totals	0	376	376

Hwy 401 South Ramp Terminal

				Totals
	0	15	111	126
	0	1	1	2
	0	19	354	373

↑ ↘ ↓

Peds: 0



Peds: 0

Hwy 401 South Ramp Terminal

Totals			

West Approach

	Out	In	Total
	466	0	466
	35	0	35
	0	0	0
Totals	501	0	501

Totals	1045	353	0
	1023	344	0
	20	9	0
	2	0	0

Division St

South Approach

	Out	In	Total
	1367	745	2112
	29	42	71
	2	0	2
Totals	1398	787	2185

 - Cars

 - Trucks

 - Bicycles

Comments

Peak Hour Summary

Intersection: Division St & Hwy 401 South Ramp Terminal
Site Code: 2231800001
Count Date: Sep. 20, 2022
Period: 15:00 - 18:00

Peak Hour Data (16:15 - 17:15)

Start Time	North Approach Division St						South Approach Division St						East Approach Hwy 401 South Ramp Terminal						West Approach Hwy 401 South Ramp Terminal						Total Vehicles
	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	
16:15	5	97		0	0	102		248	92	0	0	340					0	0	29	0	81		0	110	552
16:30	6	109		0	0	115		276	79	0	0	355					0	0	39	0	107		0	146	616
16:45	3	99		0	0	102		281	78	0	0	359					0	0	18	2	97		0	117	578
17:00	7	109		0	0	116		280	104	0	0	384					0	0	40	0	88		0	128	588
Grand Total	21	414		0	0	435		1045	353	0	0	1398					0	0	126	2	373		0	501	2334
Approach %	4.8	95.2		0	-	-		74.7	25.3	0	-	-					-	-	25.1	0.4	74.5		-	-	-
Totals %	0.9	17.7		0	-	18.6		44.8	15.1	0	-	59.9					0	0	5.4	0.1	16		0	21.5	-
PHF	0.75	0.95		0	-	0.94		0.93	0.85	0	-	0.97					0	0	0.79	0.25	0.87		0	0.86	0.95
Cars	21	391		0	-	412		1023	344	0	-	1367					0	0	111	1	354		0	466	2245
% Cars	100	94.4		0	-	94.7		97.9	97.5	0	-	97.8					0	0	88.1	50	94.9		0	93	96.2
Trucks	0	23		0	-	23		20	9	0	-	29					0	0	15	1	19		0	35	87
% Trucks	0	5.6		0	-	5.3		1.9	2.5	0	-	2.1					0	0	11.9	50	5.1		0	7	3.7
Bicycles	0	0		0	-	0		2	0	0	-	2					0	0	0	0	0		0	0	2
% Bicycles	0	0		0	-	0		0.2	0	0	-	0.1					0	0	0	0	0		0	0	0.1
Peds					0	-					0	-					0	0					0	-	0
% Peds					0	-					0	-					0	0					0	-	0

Project #22-318 - Dillon Consulting

Intersection Count Report

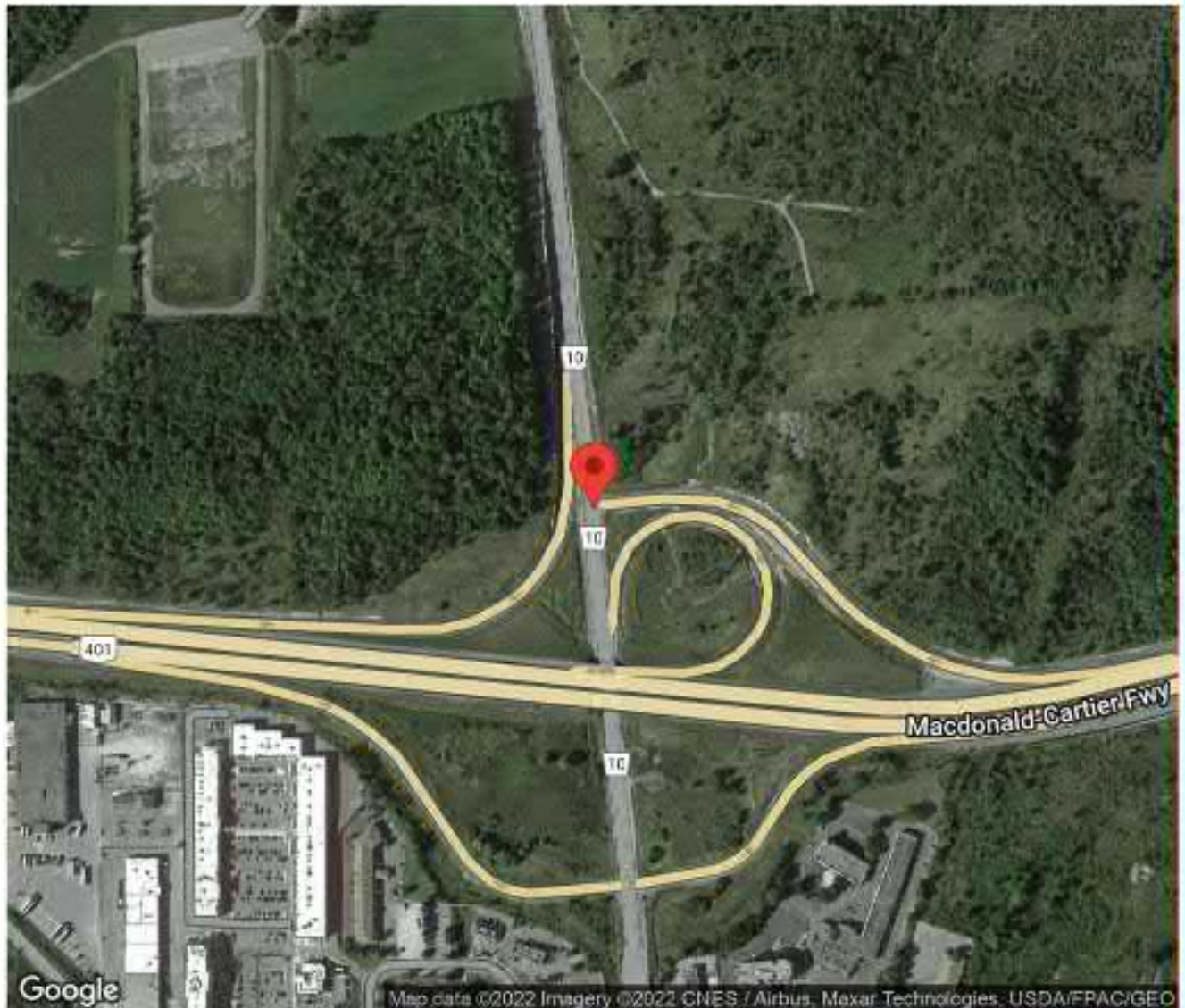
Intersection:	Division St-Perth Rd & Hwy 401 North Ramp Terminal
Municipality:	Kingston
Count Date:	Tuesday, Sep 20, 2022
Site Code:	2231800002
Count Categories:	Cars, Trucks, Bicycles, Pedestrians
Count Period:	07:00-10:00, 11:00-13:00, 15:00-18:00
Weather:	Clear
Comments:	



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Traffic Count Map

Intersection:	Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code:	2231800002
Municipality:	Kingston
Count Date:	Sep 20, 2022





Ontario Traffic Inc.
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Traffic Count Summary

Intersection: Division St-Perth Rd & Hwy 401 North
Ramp Terminal
Site Code: 2231800002
Municipality: Kingston
Count Date: Sep 20, 2022

Perth Rd - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	0	505	146	0	651	0	0	191	205	0	396	0	1047
08:00 - 09:00	0	435	123	0	558	0	0	300	276	0	576	0	1134
09:00 - 10:00	0	306	98	0	404	0	0	239	186	0	425	0	829
BREAK													
11:00 - 12:00	0	248	106	0	354	0	0	279	235	0	514	0	868
12:00 - 13:00	0	286	84	0	370	0	0	344	203	0	547	0	917
BREAK													
15:00 - 16:00	0	259	113	0	372	0	0	497	402	0	899	0	1271
16:00 - 17:00	0	257	108	0	365	0	0	652	463	0	1115	0	1480
17:00 - 18:00	0	232	97	0	329	0	0	517	396	0	913	0	1242
GRAND TOTAL	0	2528	875	0	3403	0	0	3019	2366	0	5385	0	8788



Intersection:	Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code:	2231800002
Municipality:	Kingston
Count Date:	Sep 20, 2022

East Approach Totals

West Approach Totals

Hour	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						Total
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	200	0	10	0	210	0	0	0	0	0	0	0	210
08:00 - 09:00	209	0	28	0	237	0	0	0	0	0	0	0	237
09:00 - 10:00	147	0	22	0	169	0	0	0	0	0	0	0	169
BREAK													
11:00 - 12:00	165	0	22	0	187	1	0	0	0	0	0	0	187
12:00 - 13:00	187	0	20	0	207	0	0	0	0	0	0	0	207
BREAK													
15:00 - 16:00	195	0	34	0	229	0	0	0	0	0	0	0	229
16:00 - 17:00	198	0	44	0	242	0	0	0	0	0	0	0	242
17:00 - 18:00	157	0	23	0	180	0	0	0	0	0	0	0	180
GRAND TOTAL	1458	0	203	0	1661	1	0	0	0	0	0	0	1661

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

North Approach - Perth Rd

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	0	70	20	0	90	0	1	5	0	6	0	0	0	0	0	0
07:15	0	131	31	0	162	0	5	5	0	10	0	0	0	0	0	0
07:30	0	144	41	0	185	0	3	7	0	10	0	0	0	0	0	0
07:45	0	145	35	0	180	0	6	7	0	8	0	0	0	0	0	0
08:00	0	129	31	0	160	0	4	5	0	9	0	0	0	0	0	0
08:15	0	110	33	0	143	0	8	5	0	13	0	0	0	0	0	0
08:30	0	96	18	0	114	0	6	5	0	11	0	1	0	0	1	0
08:45	0	78	23	0	101	0	3	3	0	6	0	0	0	0	0	0
09:00	0	80	24	0	104	0	0	3	0	3	0	0	0	0	0	0
09:15	0	81	26	0	107	0	2	6	0	8	0	0	0	0	0	0
09:30	0	70	15	0	85	0	2	4	0	6	0	1	0	0	1	0
09:45	0	67	20	0	87	0	3	0	0	3	0	0	0	0	0	0
SUBTOTAL	0	1201	317	0	1518	0	43	50	0	93	0	2	0	0	2	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

North Approach - Perth Rd

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	0	48	21	0	69	0	5	3	0	8	0	0	0	0	0	0
11:15	0	59	30	0	89	0	4	3	0	7	0	0	0	0	0	0
11:30	0	73	15	0	88	0	1	1	0	2	0	0	0	0	0	0
11:45	0	56	28	0	84	0	7	5	0	7	0	0	0	0	0	0
12:00	0	73	26	0	99	0	8	5	0	13	0	0	0	0	0	0
12:15	0	51	11	0	62	0	3	3	0	6	0	0	0	0	0	0
12:30	0	78	17	0	95	0	7	0	0	7	0	1	0	0	1	0
12:45	0	61	20	0	81	0	1	2	0	3	0	3	0	0	3	0
SUBTOTAL	0	499	168	0	667	0	31	22	0	53	0	4	0	0	4	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

North Approach - Perth Rd

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	0	52	23	0	75	0	2	1	0	3	0	0	0	0	0	0
15:15	0	54	21	0	75	0	4	9	0	13	0	0	0	0	0	0
15:30	0	75	23	0	98	0	5	4	0	9	0	0	0	0	0	0
15:45	0	64	28	0	92	0	3	4	0	7	0	0	0	0	0	0
16:00	0	79	29	0	108	0	2	5	0	7	0	0	0	0	0	0
16:15	0	53	23	0	76	0	1	7	0	8	0	0	0	0	0	0
16:30	0	60	22	0	82	0	5	4	0	9	0	0	0	0	0	0
16:45	0	53	13	0	66	0	4	5	0	9	0	0	0	0	0	0
17:00	0	79	36	0	115	0	2	2	0	4	0	0	0	0	0	0
17:15	0	53	20	0	73	0	1	1	0	2	0	0	0	0	0	0
17:30	0	50	21	0	71	0	1	0	0	1	0	0	0	0	0	0
17:45	0	45	17	0	62	0	0	0	0	0	0	1	0	0	1	0
SUBTOTAL	0	717	276	0	993	0	30	47	0	77	0	1	0	0	1	0
GRAND TOTAL	0	2417	761	0	3178	0	104	114	0	218	0	7	0	0	7	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

South Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	0	34	52	0	86	0	8	3	0	11	0	1	0	0	1	0
07:15	0	33	40	0	73	0	5	4	0	9	0	0	0	0	0	0
07:30	0	44	40	0	84	0	10	3	0	13	0	0	0	0	0	0
07:45	0	46	58	0	104	0	10	5	0	15	0	0	0	0	0	0
08:00	0	71	60	0	131	0	7	7	0	14	0	0	0	0	0	0
08:15	0	74	60	0	134	0	10	18	0	28	0	0	0	0	0	0
08:30	0	64	54	0	118	0	7	7	0	14	0	0	0	0	0	0
08:45	0	61	58	0	119	0	6	12	0	18	0	0	0	0	0	0
09:00	0	58	48	0	106	0	11	6	0	17	0	0	0	0	0	0
09:15	0	49	40	0	89	0	2	5	0	7	0	0	0	0	0	0
09:30	0	44	44	0	88	0	5	1	0	6	0	0	0	0	0	0
09:45	0	58	41	0	99	0	12	1	0	13	0	0	0	0	0	0
SUBTOTAL	0	636	595	0	1231	0	93	77	0	165	0	1	0	0	1	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

South Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	0	54	57	0	111	0	5	3	0	8	0	0	0	0	0	0
11:15	0	68	47	0	115	0	7	6	0	13	0	0	0	0	0	0
11:30	0	64	63	0	127	0	9	7	0	16	0	0	0	0	0	0
11:45	0	68	51	0	119	0	4	1	0	5	0	0	0	0	0	0
12:00	0	69	50	0	119	0	6	5	0	11	0	1	0	0	1	0
12:15	0	86	35	0	121	0	12	3	0	15	0	0	0	0	0	0
12:30	0	85	49	0	134	0	7	3	0	10	0	0	0	0	0	0
12:45	0	70	54	0	124	0	7	4	0	11	0	1	0	0	1	0
SUBTOTAL	0	564	406	0	970	0	57	32	0	89	0	2	0	0	2	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

South Approach - Division St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	0	116	103	0	219	0	7	4	0	11	0	0	0	0	0	0
15:15	0	117	97	0	214	0	5	6	0	11	0	0	0	0	0	0
15:30	0	94	93	0	187	0	6	3	0	9	0	0	0	0	0	0
15:45	0	143	96	0	239	0	8	0	0	8	0	1	0	0	1	0
16:00	0	111	101	0	212	0	5	4	0	9	0	0	0	0	0	0
16:15	0	155	110	0	265	0	4	7	0	11	0	1	0	0	1	0
16:30	0	166	139	0	305	0	3	2	0	5	0	0	0	0	0	0
16:45	0	197	99	0	296	0	10	1	0	11	0	0	0	0	0	0
17:00	0	148	112	0	260	0	4	6	0	10	0	1	0	0	1	0
17:15	0	145	103	0	248	0	3	0	0	3	0	1	0	0	1	0
17:30	0	109	84	0	193	0	3	4	0	7	0	1	0	0	1	0
17:45	0	101	87	0	188	0	1	0	0	1	0	0	0	0	0	0
SUBTOTAL	0	1602	1224	0	2826	0	59	37	0	96	0	5	0	0	5	0
GRAND TOTAL	0	2802	2225	0	5027	0	209	141	0	350	0	8	0	0	8	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

East Approach - Hwy 401 North Ramp Terminal

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	39	0	0	0	39	1	0	0	0	1	0	0	0	0	0	0
07:15	39	0	2	0	41	3	0	0	0	3	0	0	0	0	0	0
07:30	52	0	2	0	54	4	0	0	0	4	0	0	0	0	0	0
07:45	55	0	6	0	61	7	0	0	0	7	0	0	0	0	0	0
08:00	59	0	7	0	66	5	0	1	0	6	0	0	0	0	0	0
08:15	55	0	4	0	59	6	0	0	0	6	0	0	0	0	0	0
08:30	33	0	6	0	39	5	0	1	0	6	0	0	0	0	0	0
08:45	44	0	8	0	52	7	0	1	0	8	0	0	0	0	0	0
09:00	36	0	4	0	40	6	0	0	0	6	0	0	0	0	0	0
09:15	35	0	4	0	39	6	0	0	0	6	0	0	0	0	0	0
09:30	35	0	4	0	39	3	0	0	0	3	0	0	0	0	0	0
09:45	23	0	8	0	31	3	0	2	0	5	0	0	0	0	0	0
SUBTOTAL	505	0	55	0	560	51	0	5	0	56	0	0	0	0	0	0

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

East Approach - Hwy 401 North Ramp Terminal

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	35	0	3	0	38	5	0	1	0	6	0	0	0	0	0	0
11:15	35	0	5	0	40	8	0	0	0	8	0	0	0	0	0	1
11:30	37	0	6	0	43	6	0	0	0	6	0	0	0	0	0	0
11:45	33	0	7	0	40	6	0	0	0	6	0	0	0	0	0	0
12:00	37	0	6	0	43	8	0	2	0	10	0	0	0	0	0	0
12:15	46	0	6	0	52	3	0	0	0	3	1	0	0	0	1	0
12:30	33	0	0	0	33	8	0	0	0	8	0	0	0	0	0	0
12:45	46	0	6	0	52	5	0	0	0	5	0	0	0	0	0	0
SUBTOTAL	302	0	39	0	341	49	0	3	0	52	1	0	0	0	1	1

Traffic Count Data

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Municipality: Kingston
 Count Date: Sep 20, 2022

East Approach - Hwy 401 North Ramp Terminal

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	35	0	7	0	42	6	0	0	0	6	0	0	0	0	0	0
15:15	40	0	11	0	51	6	0	2	0	8	0	0	0	0	0	0
15:30	58	0	5	0	63	1	0	0	0	1	0	0	0	0	0	0
15:45	47	0	7	0	54	7	0	7	0	14	0	0	0	0	0	0
16:00	46	0	10	0	56	5	0	1	0	6	0	0	0	0	0	0
16:15	40	0	8	0	48	5	0	1	0	6	0	0	0	0	0	0
16:30	51	0	10	0	61	2	0	0	0	2	0	0	0	0	0	0
16:45	47	0	14	0	61	7	0	0	0	7	0	0	0	0	0	0
17:00	34	0	8	0	42	3	0	0	0	3	0	0	0	0	0	0
17:15	40	0	6	0	46	3	0	0	0	3	0	0	0	0	0	0
17:30	37	0	6	0	43	1	0	0	0	1	0	0	0	0	0	0
17:45	38	0	3	0	41	1	0	0	0	1	0	0	0	0	0	0
SUBTOTAL	513	0	95	0	608	37	0	6	0	43	0	0	0	0	0	0
GRAND TOTAL	1320	0	189	0	1509	137	0	14	0	151	1	0	0	0	1	1



Intersection:	Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code:	2231800002
Municipality:	Kingston
Count Date:	Sep 20, 2022

[illegible]



Intersection:	Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code:	2231800002
Municipality:	Kingston
Count Date:	Sep 20, 2022

Division St-Perth Rd & Hwy 401 North Ramp Terminal

2231800002

Kingston

Sep 20, 2022

	Cars						Trucks						Bicycles							
Start Time					Total						Total						Total	Total Peds		
11:00	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
11:15	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
11:30	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
11:45	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:00	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:15	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:30	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
12:45	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		
SUBTOTAL	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	0		



Intersection:	Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code:	2231800002
Municipality:	Kingston
Count Date:	Sep 20, 2022

[illegible]



Ontario Traffic Inc.

Traffic Monitoring • Services & Products

Peak Hour Diagram

Specified Period

From: 07:00:00
To: 10:00:00

One Hour Peak

From: 07:30:00
To: 08:30:00

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code: 2231800002
Count Date: Sep 20, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Perth Rd runs N/S

North Approach

	Out	In	Total
	668	254	922
	40	38	78
	0	0	0
Totals	708	292	1000

Perth Rd

	0	0	0	0
	19	21	0	0
	140	528	0	0
Totals	159	549	0	0

East Approach

	Out	In	Total
	240	218	458
	23	33	56
	0	0	0
Totals	263	251	514

Hwy 401 North Ramp Terminal

Totals

Peds: 0



Peds: 0

Hwy 401 North Ramp Terminal

Totals			
0	0	0	0
20	19	1	0
0	0	0	0
243	221	22	0

West Approach

	Out	In	Total
	0	140	140
	0	19	19
	0	0	0
Totals	0	159	159

	0	272	251	0
	0	235	218	0
	0	37	33	0
	0	0	0	0

Division St

South Approach

	Out	In	Total
	453	749	1202
	70	43	113
	0	0	0
Totals	523	792	1315

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Count Date: Sep 20, 2022
 Period: 07:00 - 10:00

Peak Hour Data (07:30 - 08:30)

Start Time	North Approach Perth Rd						South Approach Division St						East Approach Hwy 401 North Ramp Terminal						West Approach Hwy 401 North Ramp Terminal						Total Vehicles
	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	
07:30	0	147	48	0	0	195	0	54	43	0	0	97	56	0	2	0	0	58					0	0	350
07:45	0	151	37	0	0	188	0	56	63	0	0	119	62	0	6	0	0	68					0	0	375
08:00	0	133	36	0	0	169	0	78	67	0	0	145	64	0	8	0	0	72					0	0	386
08:15	0	118	38	0	0	156	0	84	78	0	0	162	61	0	4	0	0	65					0	0	383
Grand Total	0	549	159	0	0	708	0	272	251	0	0	523	243	0	20	0	0	263					0	0	1494
Approach %	0	77.5	22.5	0	-	-	0	52	48	0	-	-	92.4	0	7.6	0	-	-					-	-	-
Totals %	0	36.7	10.6	0	-	47.1	0	18.2	16.8	0	-	35	16.3	0	1.3	0	-	17.6					-	-	-
PHF	0	0.91	0.83	0	-	0.91	0	0.81	0.8	0	-	0.81	0.95	0	0.63	0	-	0.91					0	-	0.97
Cars	0	528	140	0	-	668	0	235	218	0	-	453	221	0	19	0	-	240					0	-	1361
% Cars	0	96.2	88.1	0	-	94.4	0	86.4	86.9	0	-	86.6	90.9	0	95	0	-	91.3					0	-	91.1
Trucks	0	21	19	0	-	40	0	37	33	0	-	70	22	0	1	0	-	23					0	-	133
% Trucks	0	3.8	11.9	0	-	5.6	0	13.6	13.1	0	-	13.4	9.1	0	5	0	-	8.7					0	-	8.9
Bicycles	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0					0	-	0
% Bicycles	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0					0	-	0
Peds					0	-					0	-					0	-					0	-	0
% Peds					0	-					0	-					0	-					0	-	0



Ontario Traffic Inc.

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Peak Hour Diagram

Specified Period

From: 11:00:00
To: 13:00:00

One Hour Peak

From: 12:00:00
To: 13:00:00

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code: 2231800002
Count Date: Sep 20, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Perth Rd runs N/S

North Approach

	Out	In	Total
	337	328	665
	29	34	63
	4	2	6
Totals	370	364	734

Perth Rd

	0	4	0	0
	10	19	0	0
	74	263	0	0
Totals	84	286	0	0

East Approach

	Out	In	Total
	180	188	368
	25	15	41
	1	0	1
Totals	207	203	410

Hwy 401 North Ramp Terminal

Totals

Peds: 0



Peds: 0

Hwy 401 North Ramp Terminal

Totals			
0	0	0	0
20	18	2	0
0	0	0	0
187	162	24	1

West Approach

	Out	In	Total
	0	74	74
	0	10	10
	0	0	0
Totals	0	84	84

	0	344	203	0
	0	310	188	0
	0	32	15	0
Totals	0	344	203	0

South Approach

	Out	In	Total
	498	425	923
	47	43	90
	2	5	7
Totals	547	473	1020

Division St

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Count Date: Sep 20, 2022
 Period: 11:00 - 13:00

Peak Hour Data (12:00 - 13:00)

Start Time	North Approach Perth Rd						South Approach Division St						East Approach Hwy 401 North Ramp Terminal						West Approach Hwy 401 North Ramp Terminal						Total Vehicles
	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	
12:00	0	81	31	0	0	112	0	76	55	0	0	131	45	0	8	0	0	53					0	0	296
12:15	0	54	14	0	0	68	0	98	38	0	0	136	50	0	6	0	0	56					0	0	260
12:30	0	86	17	0	0	103	0	92	52	0	0	144	41	0	0	0	0	41					0	0	288
12:45	0	65	22	0	0	87	0	78	58	0	0	136	51	0	6	0	0	57					0	0	280
Grand Total	0	286	84	0	0	370	0	344	203	0	0	547	187	0	20	0	0	207					0	0	1124
Approach %	0	77.3	22.7	0	-	-	0	62.9	37.1	0	-	-	90.3	0	9.7	0	-	-					-	-	-
Totals %	0	25.4	7.5	0	-	32.9	0	30.6	18.1	0	-	48.7	16.6	0	1.8	0	-	18.4					0	0	-
PHF	0	0.83	0.68	0	-	0.83	0	0.88	0.88	0	-	0.95	0.92	0	0.63	0	-	0.91					0	0	0.95
Cars	0	263	74	0	-	337	0	310	188	0	-	498	162	0	18	0	-	180					0	0	1015
% Cars	0	92	88.1	0	-	91.1	0	90.1	92.6	0	-	91	86.6	0	90	0	-	87					0	0	90.3
Trucks	0	19	10	0	-	29	0	32	15	0	-	47	24	0	2	0	-	26					0	0	102
% Trucks	0	6.6	11.9	0	-	7.8	0	9.3	7.4	0	-	8.6	12.8	0	10	0	-	12.6					0	0	9.1
Bicycles	0	4	0	0	-	4	0	2	0	0	-	2	1	0	0	0	-	1					0	0	7
% Bicycles	0	1.4	0	0	-	1.1	0	0.6	0	0	-	0.4	0.5	0	0	0	-	0.5					0	0	0.6
Peds					0	-					0	-					0	-					0	0	0
% Peds					0	-					0	-					0	-					0	0	-



Ontario Traffic Inc.

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Peak Hour Diagram

Specified Period

From: 15:00:00
To: 18:00:00

One Hour Peak

From: 16:15:00
To: 17:15:00

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
Site Code: 2231800002
Count Date: Sep 20, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Perth Rd runs N/S

North Approach

	Out	In	Total
	339	706	1045
	30	22	52
	0	2	2
Totals	369	730	1099

Perth Rd

	0	0	0	0
	18	12	0	0
	54	245	0	0
Totals	112	257	0	0

East Approach

	Out	In	Total
	212	460	672
	13	16	29
	0	0	0
Totals	225	476	701

Hwy 401 North Ramp Terminal

Totals

Peds: 0



Peds: 0

Hwy 401 North Ramp Terminal

Totals			
0	0	0	0
41	40	1	0
0	0	0	0
184	172	12	0

West Approach

	Out	In	Total
	0	94	94
	0	18	18
	0	0	0
Totals	0	112	112

	0	689	476	0
	0	666	460	0
	0	21	16	0
	0	2	0	0

South Approach

	Out	In	Total
	1126	417	1543
	37	24	61
	2	0	2
Totals	1165	441	1606

Division St

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Division St-Perth Rd & Hwy 401 North Ramp Terminal
 Site Code: 2231800002
 Count Date: Sep. 20, 2022
 Period: 15:00 - 18:00

Peak Hour Data (16:15 - 17:15)

Start Time	North Approach Perth Rd						South Approach Division St						East Approach Hwy 401 North Ramp Terminal						West Approach Hwy 401 North Ramp Terminal						Total Vehicles
	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	←	↑	→	↪	Peds	Total	
16:15	0	54	30	0	0	84	0	160	117	0	0	277	45	0	9	0	0	54					0	0	415
16:30	0	65	26	0	0	91	0	169	141	0	0	310	53	0	10	0	0	63					0	0	464
16:45	0	57	18	0	0	75	0	207	100	0	0	307	49	0	14	0	0	63					0	0	445
17:00	0	81	38	0	0	119	0	153	118	0	0	271	37	0	8	0	0	45					0	0	435
Grand Total	0	257	112	0	0	369	0	689	476	0	0	1165	184	0	41	0	0	225					0	0	1759
Approach %	0	69.6	30.4	0	-	-	0	59.1	40.9	0	-	-	81.8	0	18.2	0	-	-					-	-	-
Totals %	0	14.6	6.4	0	-	21	0	39.2	27.1	0	-	66.2	10.5	0	2.3	0	-	12.8					-	-	-
PHF	0	0.79	0.74	0	-	0.78	0	0.83	0.84	0	-	0.94	0.87	0	0.73	0	-	0.89					0	0	0.95
Cars	0	245	94	0	-	339	0	666	460	0	-	1126	172	0	40	0	-	212					0	0	1677
% Cars	0	95.3	83.9	0	-	91.9	0	96.7	96.6	0	-	96.7	93.5	0	97.6	0	-	94.2					0	0	95.3
Trucks	0	12	18	0	-	30	0	21	16	0	-	37	12	0	1	0	-	13					0	0	80
% Trucks	0	4.7	16.1	0	-	8.1	0	3	3.4	0	-	3.2	6.5	0	2.4	0	-	5.8					0	0	4.5
Bicycles	0	0	0	0	-	0	0	2	0	0	-	2	0	0	0	0	-	0					0	0	2
% Bicycles	0	0	0	0	-	0	0	0.3	0	0	-	0.2	0	0	0	0	-	0					0	0	0.1
Peds					0	-					0	-					0	-					0	0	0
% Peds					0	-					0	-					0	-					0	0	-

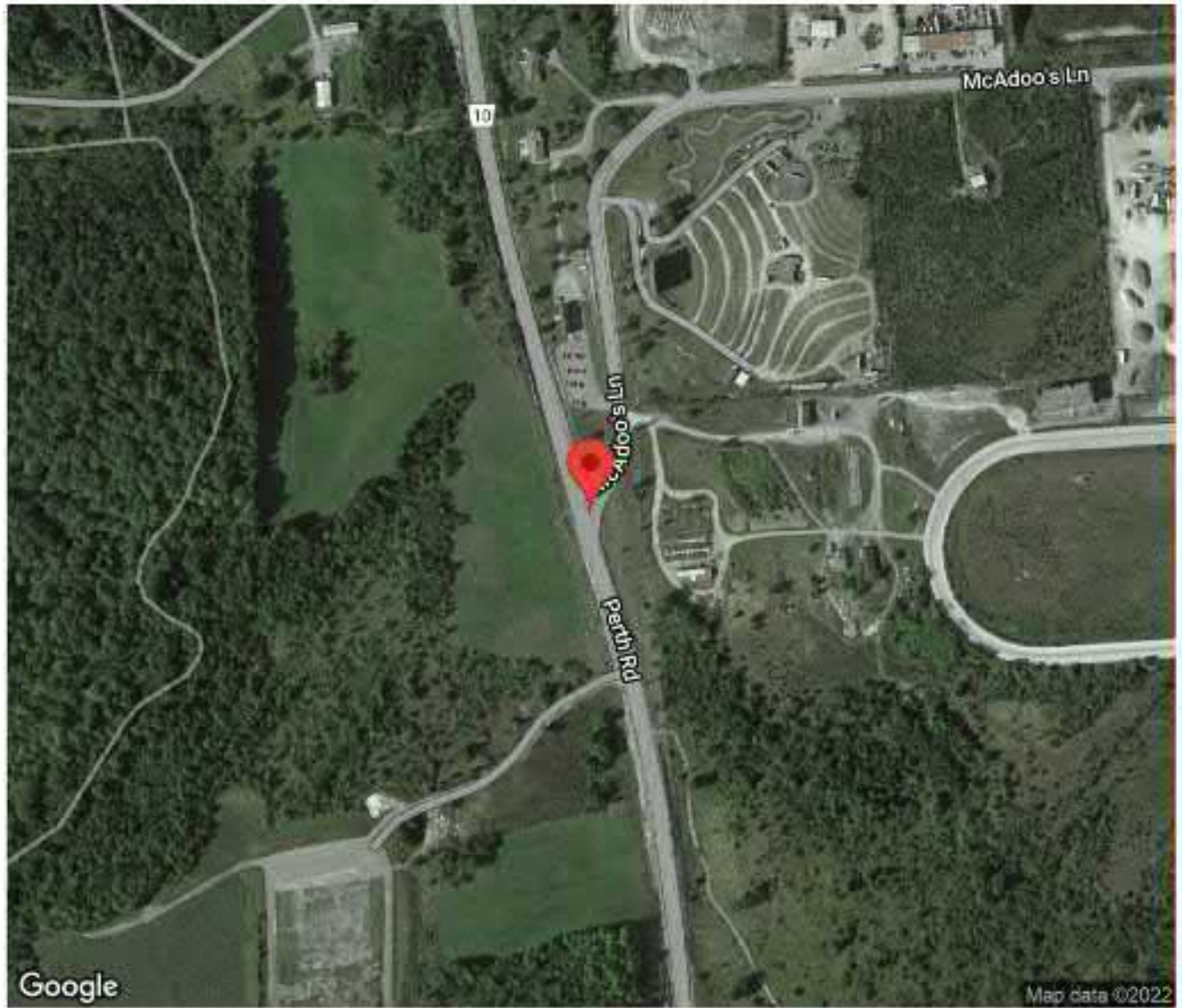
Project #22-318 - Dillon Consulting

Intersection Count Report

Intersection:	Perth St & McDoo's Lane
Municipality:	Kingston
Count Date:	Thursday, Sep 22, 2022
Site Code:	2231800005
Count Categories:	Cars, Trucks, Bicycles, Pedestrians
Count Period:	07:00-10:00, 11:00-13:00, 15:00-18:00
Weather:	Clear
Comments:	

Traffic Count Map

Intersection:	Perth St & McAdoo's Lane
Site Code:	2231800005
Municipality:	Kingston
Count Date:	Sep 22, 2022



Traffic Count Summary

Intersection: Perth St & McAdoo's Lane
 Site Code: 2231800005
 Municipality: Kingston
 Count Date: Sep 22, 2022

Perth St - Traffic Summary

Hour	North Approach Totals						South Approach Totals						Total
	Includes Cars, Trucks, Bicycles						Includes Cars, Trucks, Bicycles						
	Left	Thru	Right	U-Turn	Total	Peds	Left	Thru	Right	U-Turn	Total	Peds	
07:00 - 08:00	14	607	0	0	621	0	0	135	62	0	197	0	818
08:00 - 09:00	11	489	0	0	500	0	0	232	95	0	327	0	827
09:00 - 10:00	6	349	0	0	355	0	0	181	85	0	266	0	621
BREAK													
11:00 - 12:00	16	294	0	0	310	0	0	238	59	0	297	0	607
12:00 - 13:00	15	312	0	0	327	0	0	310	57	0	367	0	694
BREAK													
15:00 - 16:00	13	301	0	0	314	0	0	456	60	0	526	0	840
16:00 - 17:00	15	283	0	0	298	0	0	612	81	0	693	0	991
17:00 - 18:00	4	268	0	0	272	0	0	498	53	0	551	0	823
GRAND TOTAL	94	2903	0	0	2997	0	0	2672	552	0	3224	0	6221

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

North Approach - Perth St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	3	86	0	0	89	1	2	0	0	3	0	0	0	0	0	0
07:15	0	149	0	0	149	0	5	0	0	5	0	0	0	0	0	0
07:30	0	184	0	0	184	1	1	0	0	2	0	0	0	0	0	0
07:45	8	176	0	0	184	1	4	0	0	5	0	0	0	0	0	0
08:00	2	144	0	0	146	0	3	0	0	3	0	0	0	0	0	0
08:15	7	130	0	0	137	0	4	0	0	4	0	0	0	0	0	0
08:30	2	105	0	0	107	3	4	0	0	7	0	0	0	0	0	0
08:45	1	98	0	0	99	1	1	0	0	2	0	0	0	0	0	0
09:00	1	100	0	0	101	0	1	0	0	1	0	0	0	0	0	0
09:15	1	96	0	0	97	0	2	0	0	2	0	0	0	0	0	0
09:30	1	65	0	0	66	0	4	0	0	4	0	1	0	0	1	0
09:45	2	76	0	0	78	1	3	0	0	4	0	1	0	0	1	0
SUBTOTAL	23	1409	0	0	1432	8	34	0	0	42	0	2	0	0	2	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

North Approach - Perth St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	3	60	0	0	63	0	4	0	0	4	0	0	0	0	0	0
11:15	5	79	0	0	84	1	3	0	0	4	0	0	0	0	0	0
11:30	2	73	0	0	75	0	2	0	0	2	0	0	0	0	0	0
11:45	4	70	0	0	74	1	7	0	0	3	0	1	0	0	1	0
12:00	3	86	0	0	89	2	0	0	0	2	0	0	0	0	0	0
12:15	3	51	0	0	54	0	4	0	0	4	0	0	0	0	0	0
12:30	3	88	0	0	91	0	3	0	0	3	0	0	0	0	0	0
12:45	0	75	0	0	75	4	7	0	0	6	0	3	0	0	3	0
SUBTOTAL	23	582	0	0	605	8	20	0	0	28	0	4	0	0	4	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

North Approach - Perth St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	1	58	0	0	59	0	2	0	0	2	0	0	0	0	0	0
15:15	3	70	0	0	73	0	10	0	0	10	0	0	0	0	0	0
15:30	5	79	0	0	84	3	1	0	0	4	0	0	0	0	0	0
15:45	1	76	0	0	77	0	5	0	0	5	0	0	0	0	0	0
16:00	3	89	0	0	92	0	4	0	0	4	0	0	0	0	0	0
16:15	0	57	0	0	57	0	7	0	0	7	0	0	0	0	0	0
16:30	4	65	0	0	69	1	5	0	0	6	0	0	0	0	0	0
16:45	6	49	0	0	55	1	7	0	0	8	0	0	0	0	0	0
17:00	1	88	0	0	89	0	3	0	0	3	0	0	0	0	0	0
17:15	0	61	0	0	61	0	0	0	0	0	0	0	0	0	0	0
17:30	2	61	0	0	63	0	1	0	0	1	0	0	0	0	0	0
17:45	1	52	0	0	53	0	2	0	0	2	0	0	0	0	0	0
SUBTOTAL	27	805	0	0	832	5	47	0	0	52	0	0	0	0	0	0
GRAND TOTAL	73	2796	0	0	2869	21	101	0	0	122	0	6	0	0	6	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

South Approach - Perth St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	0	24	12	0	36	0	3	2	0	5	0	0	0	0	0	0
07:15	0	29	9	0	38	0	0	4	0	4	0	0	0	0	0	0
07:30	0	34	11	0	45	0	4	8	0	12	0	0	0	0	0	0
07:45	0	37	13	0	50	0	4	1	0	7	0	0	0	0	0	0
08:00	0	66	11	0	77	0	1	7	0	8	0	0	0	0	0	0
08:15	0	57	20	0	77	0	7	5	0	12	0	0	0	0	0	0
08:30	0	45	26	0	71	0	2	5	0	7	0	0	0	0	0	0
08:45	0	51	18	0	69	0	3	1	0	6	0	0	0	0	0	0
09:00	0	41	19	0	60	0	7	3	0	10	0	1	0	0	1	0
09:15	0	32	20	0	52	0	1	5	0	6	0	0	0	0	0	0
09:30	0	37	13	0	50	0	4	5	0	9	0	0	0	0	0	0
09:45	0	56	11	0	67	0	2	9	0	11	0	0	0	0	0	0
SUBTOTAL	0	509	183	0	692	0	38	59	0	97	0	1	0	0	1	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

South Approach - Perth St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	0	47	8	0	55	0	3	2	0	5	0	0	0	0	0	0
11:15	0	61	13	0	74	0	4	5	0	9	0	0	0	0	0	0
11:30	0	57	14	0	71	0	3	5	0	8	0	0	0	0	0	0
11:45	0	62	11	0	73	0	1	1	0	2	0	0	0	0	0	0
12:00	0	69	5	0	74	0	4	6	0	10	0	1	0	0	1	0
12:15	0	82	13	0	95	0	5	7	0	12	0	0	0	0	0	0
12:30	0	86	3	0	89	0	2	3	0	5	0	0	0	0	0	0
12:45	0	57	17	0	74	0	4	1	0	5	0	0	0	0	0	0
SUBTOTAL	0	521	84	0	605	0	26	32	0	58	0	1	0	0	1	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

South Approach - Perth St

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	0	115	10	0	125	0	6	0	0	6	0	0	0	0	0	0
15:15	0	113	12	0	125	0	3	4	0	7	0	0	0	0	0	0
15:30	0	91	11	0	102	0	1	5	0	6	0	0	0	0	0	0
15:45	0	134	13	0	147	0	3	5	0	8	0	0	0	0	0	0
16:00	0	108	12	0	120	0	1	7	0	8	0	0	1	0	1	0
16:15	0	144	17	0	161	0	2	4	0	6	0	0	0	0	0	0
16:30	0	154	20	0	174	0	1	3	0	4	0	0	0	0	0	0
16:45	0	199	11	0	210	0	2	6	0	8	0	1	0	0	1	0
17:00	0	146	17	0	163	0	1	1	0	2	0	1	0	0	1	0
17:15	0	140	13	0	153	0	0	2	0	2	0	1	0	0	1	0
17:30	0	111	7	0	118	0	1	4	0	5	0	1	0	0	1	0
17:45	0	95	8	0	103	0	1	1	0	2	0	0	0	0	0	0
SUBTOTAL	0	1550	151	0	1701	0	22	47	0	69	0	4	1	0	5	0
GRAND TOTAL	0	2580	418	0	2998	0	86	133	0	219	0	6	1	0	7	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

East Approach - McAdoo's Lane

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
07:00	8	0	1	0	9	5	0	0	0	5	0	0	0	0	0	0
07:15	10	0	1	0	11	5	0	1	0	6	0	0	0	0	0	1
07:30	6	0	1	0	7	7	0	1	0	8	0	0	0	0	0	0
07:45	5	0	4	0	9	6	0	0	0	6	0	0	0	0	0	0
08:00	10	0	3	0	13	3	0	1	0	4	0	0	0	0	0	0
08:15	14	0	1	0	15	3	0	1	0	4	0	0	0	0	0	0
08:30	5	0	2	0	7	6	0	0	0	6	0	0	0	0	0	0
08:45	7	0	2	0	9	9	0	1	0	10	0	0	0	0	0	0
09:00	6	0	1	0	7	6	0	0	0	6	0	0	0	0	0	0
09:15	9	0	1	0	10	3	0	0	0	3	0	0	0	0	0	0
09:30	21	0	3	0	24	3	0	0	0	3	0	0	0	0	0	0
09:45	16	0	3	0	19	2	0	0	0	2	0	0	0	0	0	0
SUBTOTAL	112	0	23	0	135	58	0	5	0	63	0	0	0	0	0	1

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

East Approach - McAdoo's Lane

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
11:00	11	0	0	0	11	4	0	0	0	4	0	0	0	0	0	0
11:15	11	0	1	0	12	1	0	1	0	2	0	0	0	0	0	0
11:30	11	0	5	0	16	2	0	1	0	3	0	0	0	0	0	0
11:45	16	0	3	0	19	5	0	1	0	6	0	0	0	0	0	0
12:00	11	0	3	0	14	9	0	1	0	10	0	0	0	0	0	0
12:15	12	0	3	0	15	5	0	0	0	5	1	0	0	0	1	0
12:30	9	0	0	0	9	2	0	0	0	2	0	0	0	0	0	0
12:45	7	0	1	0	8	3	0	0	0	3	0	0	0	0	0	0
SUBTOTAL	88	0	16	0	104	31	0	4	0	35	1	0	0	0	1	0

Traffic Count Data

Intersection: Perth St & McAdoo's Lane
Site Code: 2231800005
Municipality: Kingston
Count Date: Sep 22, 2022

East Approach - McAdoo's Lane

Start Time	Cars					Trucks					Bicycles					Total Peds
	←	↑	→	↻	Total	←	↑	→	↻	Total	←	↑	→	↻	Total	
15:00	18	0	6	0	24	2	0	2	0	4	0	0	0	0	0	0
15:15	7	0	4	0	11	1	0	1	0	2	0	0	0	0	0	0
15:30	17	0	2	0	19	7	0	2	0	9	0	0	0	0	0	0
15:45	14	0	4	0	18	5	0	1	0	6	0	0	0	0	0	0
16:00	20	0	3	0	23	1	0	0	0	1	1	0	0	0	1	0
16:15	21	0	6	0	27	3	0	2	0	5	0	0	0	0	0	0
16:30	16	0	7	0	23	2	0	1	0	3	0	0	0	0	0	0
16:45	18	0	3	0	21	1	0	0	0	1	0	0	0	0	0	0
17:00	25	0	11	0	36	0	0	0	0	0	0	0	0	0	0	0
17:15	14	0	2	0	16	1	0	1	0	2	0	0	0	0	0	0
17:30	13	0	1	0	14	0	0	0	0	0	0	0	0	0	0	0
17:45	9	0	1	0	10	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	192	0	50	0	242	23	0	10	0	33	1	0	0	0	1	0
GRAND TOTAL	392	0	89	0	481	112	0	19	0	131	2	0	0	0	2	1



Ontario Traffic Inc.

Traffic Monitoring • Services & Products

Peak Hour Diagram

Specified Period

From: 07:00:00
To: 10:00:00

One Hour Peak

From: 07:30:00
To: 08:30:00

Intersection: Perth St & McDoo's Lane
Site Code: 2231800005
Count Date: Sep 22, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Perth St runs N/S

North Approach

	Out	In	Total
	546	203	849
	14	19	33
	0	0	0
Totals	660	222	882

Perth St

	0	0	0
	12	2	0
	534	12	0
Totals	646	14	0

East Approach

	Out	In	Total
	44	67	111
	22	25	47
	0	0	0
Totals	66	92	158

Peds: 0

Peds: 0



Peds: 0

Peds: 0

McDoo's Lane

Totals			
0	0	0	0
12	9	3	0
54	35	19	0

Totals	210	78	0
	194	55	0
	16	23	0
	0	0	0

South Approach

Out	In	Total
249	669	918
39	31	70
0	0	0
288	700	988

Perth St

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Perth St & McDoo's Lane
Site Code: 2231800005
Count Date: Sep 22, 2022
Period: 07:00 - 10:00

Peak Hour Data (07:30 - 08:30)

	North Approach Perth St						South Approach Perth St						East Approach McAdoo's Lane						West Approach						Total Vehicle ES
Start Time					Peds	Total					Peds	Total					Peds	Total					Peds	Total	
07:30	1	185		0	0	186		38	19	0	0	57	13		2	0	0	15					0		258
07:45	9	180		0	0	189		41	16	0	0	57	11		4	0	0	15					0		261
08:00	7	147		0	0	149		67	18	0	0	85	13		4	0	0	17					0		251
08:15	2	134		0	0	136		64	25	0	0	89	17		2	0	0	19					0		244
Grand Total	14	646		0	0	660		210	78	0	0	288	54		12	0	0	66					0	0	1014
Approach %	2.1	97.9		0	-	-		72.9	27.1	0	-	-	81.8		18.2	0	-	-					-	-	-
Totals %	1.4	63.7		0	-	65.1		20.7	7.7	0	-	28.1	5.3		1.2	0	-	6.5					0	-	-
PHF	0.39	0.87		0	-	0.87		0.78	0.78	0	-	0.81	0.79		0.75	0	-	0.87					0	-	0.97
Cars	12	634		0	-	646		194	55	0	-	249	35		9	0	-	44					0	-	939
% Cars	85.7	98.1		0	-	97.9		92.4	70.5	0	-	86.5	64.8		75	0	-	66.7					0	-	92.6
Trucks	2	12		0	-	14		16	23	0	-	39	19		3	0	-	22					0	-	75
% Trucks	14.3	1.9		0	-	2.1		7.6	29.5	0	-	13.5	35.2		25	0	-	33.3					0	-	7.4
Bicycles	0	0		0	-	0		0	0	0	-	0	0		0	0	-	0					0	-	0
% Bicycles	0	0		0	-	0		0	0	0	-	0	0		0	0	-	0					0	-	0
Peds					0	-					0	-					0	-					0	-	0
% Peds					0	-					0	-					0	-					0	-	0



Ontario Traffic Inc.

Traffic Monitoring • Services & Products

Peak Hour Diagram

Specified Period

From: 11:00:00
To: 13:00:00

One Hour Peak

From: 11:45:00
To: 12:45:00

Intersection: Perth St & McDoo's Lane
Site Code: 2231800005
Count Date: Sep 22, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Perth St runs N/S

North Approach

	Out	In	Total
	308	308	616
	12	14	26
	1	1	2
Totals	321	323	644

Perth St

	7	0	0
	9	3	0
	295	13	0
Totals	305	16	0

East Approach

	Out	In	Total
	57	45	102
	23	20	43
	1	0	1
Totals	81	65	146

Peds: 0

Peds: 0



Peds: 0

Peds: 0

McDoo's Lane

Totals			
0	0	0	0
11	9	2	0
70	48	21	1

Totals	312	49	0
	299	32	0
	12	17	0
	1	0	0

South Approach

Out	In	Total
331	343	674
29	30	59
1	2	3
361	375	736

Perth St

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Perth St & McDoo's Lane
Site Code: 2231800005
Count Date: Sep 22, 2022
Period: 11:00 - 13:00

Peak Hour Data (11:45 - 12:45)

	North Approach Perth St						South Approach Perth St						East Approach McAdoo's Lane						West Approach						Total Vehicles	
Start Time					Peds	Total					Peds	Total					Peds	Total					Peds	Total		
11:45	5	73		0	0	78		63	12	0	0	75	21		4	0	0	25					0		178	
12:00	5	86		0	0	91		74	11	0	0	85	20		4	0	0	24					0		200	
12:15	3	55		0	0	58		87	20	0	0	107	18		3	0	0	21					0		186	
12:30	3	91		0	0	94		88	6	0	0	94	11		0	0	0	11					0		199	
Grand Total	16	305		0	0	321		312	49	0	0	361	70		11	0	0	81					0	0	763	
Approach %	5	95		0	-	-		86.4	13.6	0	-	-	86.4		13.6	0	-	-					-	-	-	
Totals %	2.1	40		0		42.1		40.9	6.4	0		47.3	9.2		1.4	0		10.6					0			
PHF	0.8	0.84		0		0.85		0.89	0.61	0		0.84	0.83		0.69	0		0.81					0		0.95	
Cars	13	295		0		308		299	32	0		331	48		9	0		57					0		696	
% Cars	81.3	96.7		0		96		95.8	65.3	0		91.7	68.6		81.8	0		70.4					0		91.2	
Trucks	3	9		0		12		12	17	0		29	21		2	0		23					0		64	
% Trucks	18.8	3		0		3.7		3.8	34.7	0		8	30		18.2	0		28.4					0		8.4	
Bicycles	0	1		0		1		1	0	0		1	1		0	0		1					0		3	
% Bicycles	0	0.3		0		0.3		0.3	0	0		0.3	1.4		0	0		1.2					0		0.4	
Peds					0	-					0	-					0	-					0	-	0	
% Peds					0	-					0	-					0	-					0	-		



Ontario Traffic Inc.

Traffic Monitoring • Services & Products

Peak Hour Diagram

Specified Period

From: 15:00:00
To: 18:00:00

One Hour Peak

From: 16:15:00
To: 17:15:00

Intersection: Perth St & McDoo's Lane
Site Code: 2231800005
Count Date: Sep 22, 2022

Weather conditions: Clear

**** Signalized Intersection ****

Major Road: Perth St runs N/S

North Approach

	Out	In	Total
	270	670	940
	24	9	33
	0	2	2
Totals	294	681	975

Perth St

	0	0	0
	22	2	0
	259	11	0
Totals	281	13	0

East Approach

	Out	In	Total
	107	76	183
	9	16	25
	0	0	0
Totals	116	92	208

Peds: 0

Peds: 0



Peds: 0

Peds: 0

McDoo's Lane

Totals			
0	0	0	0
30	27	3	0
86	80	6	0

Totals	651	79	0
	643	65	0
	6	14	0
	2	0	0

South Approach

	Out	In	Total
	708	339	1047
	20	28	48
	2	0	2
Totals	730	367	1097

Perth St

- Cars

- Trucks

- Bicycles

Comments

Peak Hour Summary

Intersection: Perth St & McDoo's Lane
Site Code: 2231800005
Count Date: Sep 22, 2022
Period: 15:00 - 18:00

Peak Hour Data (16:15 - 17:15)

	North Approach Perth St						South Approach Perth St						East Approach McAdoo's Lane						West Approach						Total Vehicle ES	
Start Time					Peds	Total					Peds	Total					Peds	Total					Peds	Total		
16:15	0	64			0	0	64		146	21	0	0	167	24		8	0	0	32					0		263
16:30	5	70			0	0	75		155	23	0	0	178	18		8	0	0	26					0		279
16:45	7	56			0	0	63		202	17	0	0	219	19		3	0	0	22					0		304
17:00	1	91			0	0	92		148	18	0	0	166	25		11	0	0	36					0		294
Grand Total	13	281			0	0	294		651	79	0	0	730	86		30	0	0	116					0	0	1140
Approach %	4.4	95.6			0	-	-		89.2	10.8	0	-	-	74.1		25.9	0	-	-					-	-	-
Totals %	1.1	24.6			0	25.8			57.1	6.9	0	64		7.5		26	0	10.2					0			
PHF	0.46	0.77			0	0.8		0.81	0.86	0		0.83	0.86		0.68	0		0.81					0		0.94	
Cars	11	259			0	270		643	65	0		708	80		27	0		107					0		1085	
% Cars	84.6	92.2			0	91.8		98.8	82.3	0		97	93		90	0		92.2					0		95.2	
Trucks	2	22			0	24		6	14	0		20	6		3	0		9					0		53	
% Trucks	15.4	7.8			0	8.2		0.9	17.7	0		2.7	7		10	0		7.8					0		4.6	
Bicycles	0	0			0	0		2	0	0		2	0		0	0		0					0		2	
% Bicycles	0	0			0	0		0.3	0	0		0.3	0		0	0		0					0		0.2	
Peds					0	-				0	-					0	-						0	-	0	
% Peds					0	-				0	-					0	-						0	-		

Appendix F2

Signal Timing Plans

Location: Division St. & Hwy 401 S. Ramp

Analysis Date: 2016 Retime

Analysis: DG/DB

Implementation Date:

Design For: Updated offsets & timings

Problems:

Recommendations:

Special Notes:

Detailed Timings:

	MSG	
	N/S	EBD
Direction	↓ ↑	→
Phase		
Intergreen	4+3	3.3+2.2
Ped. Clr.		
Walk		

	Cycle	Offset		
Pattern 1	120	7	63 min	10 - 44.5
Free	n/a	n/a	20 - 40	10 - 30
Rest of Time				

Day Plans

M-F	Pattern 1 Free	06:30-21:30 Rest of Time
S-S	Pattern 1 Free	08:00-21:00 Rest of Time

Location: Division St. & Hwy 401 N. Ramp

Analysis Date: April 2018

Analysis: DG

Implementation Date:

Design For: Run free at all times

Problems: Too many complaints about delays coming off 401 westbound

Recommendations:

Special Notes: Leave pattern 1 in place for future

Detailed Timings:

	MSG	
	N/S	WBD
Direction	↓ ↑	←
Phase		
Intergreen	5+3	3.3+2.4
Ped. Clr.	18+8	18+5.7
Walk	7	7

	Cycle	Offset		
Pattern 1	120	2	66 min	10 - 40.3

Free	n/a	n/a	20 - 50	10 - 30
Rest of Time				

Day Plans

M-F	Pattern 1	Never
	Free	All times
S-S	Pattern 1	Never
	Free	All times

Location: Perth Rd. & McAdoo's

Analysis: DG/DB

Analysis Date: 2016 Retime

Implementation Date:

Design For: Updated offsets & timings

Problems:

Recommendations:

Special Notes: No ped heads or ped buttons

Detailed Timings:

	MSG		
Direction	SBD	Perth N/S	Mcadoos WBD
Phase			
Intergreen	4+0	4.5+2	3.7+2.0
Ped. Clr.		12+6	14+5.7
Walk		7	7

	Cycle	Offset			
Free	n/a	n/a	5 - 11	20 - 40	10 - 28
All Times					

Appendix F3

Synchro Worksheets

Lanes, Volumes, Timings
1: McAdoo's Lane & Perth Road

AM Peak Hour
Existing Volumes

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	54	12	215	78	14	649
Future Volume (vph)	54	12	215	78	14	649
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)	0.0	0.0		45.0	0.0	
Storage Lanes	1	1		1	1	
Taper Length (m)	7.5				7.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1337	1292	1776	1252	1583	1863
Flt Permitted	0.950				0.570	
Satd. Flow (perm)	1337	1292	1776	1252	950	1863
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)		13		85		
Link Speed (k/h)	50		50			50
Link Distance (m)	153.6		432.3			146.3
Travel Time (s)	11.1		31.1			10.5
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	35%	25%	7%	29%	14%	2%
Adj. Flow (vph)	59	13	234	85	15	705
Shared Lane Traffic (%)						
Lane Group Flow (vph)	59	13	234	85	15	705
Turn Type	Perm	Perm	NA	Perm	pm+pl	NA
Protected Phases			2		1	6
Permitted Phases	8	8		2	6	
Detector Phase	8	8	2	2	1	6
Switch Phase						
Minimum Initial (s)	10.0	10.0	20.0	20.0	5.0	20.0
Minimum Split (s)	26.7	26.7	26.5	26.5	9.0	26.5
Total Split (s)	28.0	28.0	40.0	40.0	11.0	51.0
Total Split (%)	35.4%	35.4%	50.6%	50.6%	13.9%	64.6%
Maximum Green (s)	22.3	22.3	33.5	33.5	7.0	44.5
Yellow Time (s)	3.7	3.7	4.5	4.5	4.0	4.5
All-Red Time (s)	2.0	2.0	2.0	2.0	0.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.7	5.7	6.5	6.5	4.0	6.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	Max
Walk Time (s)	7.0	7.0	7.0	7.0		7.0
Flash Dont Walk (s)	14.0	14.0	12.0	12.0		12.0
Pedestrian Calls (#/hr)	0	0	0	0		0
Act Effect Green (s)	10.4	10.4	55.7	55.7	57.5	57.8
Actuated g/C Ratio	0.15	0.15	0.79	0.79	0.81	0.82
v/c Ratio	0.30	0.07	0.17	0.08	0.02	0.46
Control Delay	31.9	14.2	5.4	2.3	3.1	5.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0

Lanes, Volumes, Timings
1: McAdoo's Lane & Perth Road

AM Peak Hour
Existing Volumes

	↙	↖	↑	↗	↘	↓
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Total Delay	31.9	14.2	5.4	2.3	3.1	5.7
LOS	C	B	A	A	A	A
Approach Delay	28.7		4.6			5.6
Approach LOS	C		A			A
Queue Length 50th (m)	9.0	0.0	9.7	0.0	0.5	41.0
Queue Length 95th (m)	17.1	4.3	29.5	6.1	2.0	72.1
Internal Link Dist (m)	129.6		406.3			122.3
Turn Bay Length (m)				45.0		
Base Capacity (vph)	422	417	1394	1001	833	1516
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.03	0.17	0.08	0.02	0.46

Intersection Summary

Area Type: Other

Cycle Length: 79

Actuated Cycle Length: 70.9

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.46

Intersection Signal Delay: 6.8

Intersection LOS: A

Intersection Capacity Utilization 52.7%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 1: McAdoo's Lane & Perth Road



Lanes, Volumes, Timings
3: Hwy 401 North Ramp Terminal

AM Peak Hour
Existing Volumes

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	243	0	20	0	272	251	0	552	159
Future Volume (vph)	0	0	0	243	0	20	0	272	251	0	552	159
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (m)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.4	3.6
Storage Length (m)	0.0		0.0	0.0		0.0	0.0		100.0	0.0		100.0
Storage Lanes	0		0	1		0	0		1	0		1
Taper Length (m)	7.5			7.5			7.5			7.5		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frt					0.977				0.850			0.850
Flt Protected				0.950	0.960							
Satd. Flow (prot)	0	0	0	1573	1562	0	0	3131	1413	0	3394	1442
Flt Permitted				0.950	0.960							
Satd. Flow (perm)	0	0	0	1573	1562	0	0	3131	1413	0	3394	1442
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					68				273			173
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		293.0			172.8			357.4			347.7	
Travel Time (s)		21.1			12.4			25.7			25.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	0%	0%	9%	0%	5%	0%	14%	13%	0%	4%	12%
Adj. Flow (vph)	0	0	0	264	0	22	0	296	273	0	600	173
Shared Lane Traffic (%)				45%								
Lane Group Flow (vph)	0	0	0	145	141	0	0	296	273	0	600	173
Turn Type				Perm	NA			NA	Free		NA	Free
Protected Phases					8			2			6	
Permitted Phases				8					Free			Free
Detector Phase				8	8			2			6	
Switch Phase												
Minimum Initial (s)				10.0	10.0			20.0			20.0	
Minimum Split (s)				30.7	30.7			33.0			33.0	
Total Split (s)				30.0	30.0			50.0			50.0	
Total Split (%)				37.5%	37.5%			62.5%			62.5%	
Maximum Green (s)				24.3	24.3			42.0			42.0	
Yellow Time (s)				3.3	3.3			5.0			5.0	
All-Red Time (s)				2.4	2.4			3.0			3.0	
Lost Time Adjust (s)				0.0	0.0			0.0			0.0	
Total Lost Time (s)				5.7	5.7			8.0			8.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)				3.0	3.0			3.0			3.0	
Recall Mode				None	None			Max			Max	
Walk Time (s)				7.0	7.0			7.0			7.0	
Flash Dont Walk (s)				18.0	18.0			18.0			18.0	
Pedestrian Calls (#/hr)				0	0			0			0	
Act Effct Green (s)				12.3	12.3			44.8	70.9		44.8	70.9
Actuated g/C Ratio				0.17	0.17			0.63	1.00		0.63	1.00
v/c Ratio				0.53	0.43			0.15	0.19		0.28	0.12
Control Delay				33.2	17.8			5.9	0.3		6.6	0.2

Lanes, Volumes, Timings
3: Hwy 401 North Ramp Terminal

AM Peak Hour
Existing Volumes

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Queue Delay				0.0	0.0			0.0	0.0		0.0	0.0
Total Delay				33.2	17.8			5.9	0.3		6.6	0.2
LOS				C	B			A	A		A	A
Approach Delay					25.6			3.2			5.2	
Approach LOS					C			A			A	
Queue Length 50th (m)				18.6	8.9			7.3	0.0		16.3	0.0
Queue Length 95th (m)				35.6	24.2			14.6	0.0		29.4	0.0
Internal Link Dist (m)		269.0			148.8			333.4			323.7	
Turn Bay Length (m)									100.0			100.0
Base Capacity (vph)				541	582			1980	1413		2146	1442
Starvation Cap Reductn				0	0			0	0		0	0
Spillback Cap Reductn				0	0			0	0		0	0
Storage Cap Reductn				0	0			0	0		0	0
Reduced v/c Ratio				0.27	0.24			0.15	0.19		0.28	0.12

Intersection Summary

Area Type: Other

Cycle Length: 80

Actuated Cycle Length: 70.9

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.53

Intersection Signal Delay: 8.1

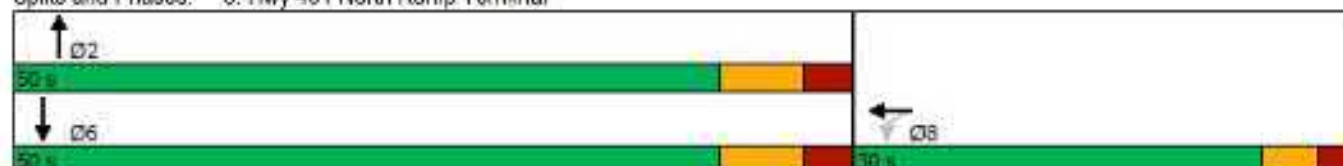
Intersection LOS: A

Intersection Capacity Utilization 36.4%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 3: Hwy 401 North Ramp Terminal



Lanes, Volumes, Timings
4: Division Street & Hwy 401 South Ramp Terminal

AM Peak Hour
Existing Volumes

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↩	↪					↩↪	↪		↩↪	
Traffic Volume (vph)	72	0	502	0	0	0	0	451	169	56	739	0
Future Volume (vph)	72	0	502	0	0	0	0	451	169	56	739	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (m)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.2	3.2	3.6	3.4	3.6
Storage Length (m)	0.0		0.0	0.0		0.0	0.0		30.0	0.0		0.0
Storage Lanes	0		1	0		0	0		1	0		0
Taper Length (m)	7.5			7.5			7.5			7.5		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	1.00
Frt			0.850						0.850			
Flt Protected		0.950									0.996	
Satd. Flow (prot)	0	1492	1524	0	0	0	0	3080	1442	0	3321	0
Flt Permitted		0.950									0.865	
Satd. Flow (perm)	0	1492	1524	0	0	0	0	3080	1442	0	2884	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			172						184			
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		168.2			178.8			159.7			357.4	
Travel Time (s)		12.1			12.9			11.5			25.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	21%	0%	6%	0%	0%	0%	0%	12%	7%	4%	6%	0%
Adj. Flow (vph)	78	0	546	0	0	0	0	490	184	61	803	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	78	546	0	0	0	0	490	184	0	864	0
Turn Type	Perm	NA	Perm					NA	Perm	Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4		4						2	6		
Detector Phase	4	4	4					2	2	6	6	
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0					63.0	63.0	63.0	63.0	
Minimum Split (s)	23.5	23.5	23.5					70.0	70.0	70.0	70.0	
Total Split (s)	44.5	44.5	44.5					75.5	75.5	75.5	75.5	
Total Split (%)	37.1%	37.1%	37.1%					62.9%	62.9%	62.9%	62.9%	
Maximum Green (s)	39.0	39.0	39.0					68.5	68.5	68.5	68.5	
Yellow Time (s)	3.3	3.3	3.3					4.0	4.0	4.0	4.0	
All-Red Time (s)	2.2	2.2	2.2					3.0	3.0	3.0	3.0	
Lost Time Adjust (s)		0.0	0.0					0.0	0.0		0.0	
Total Lost Time (s)		5.5	5.5					7.0	7.0		7.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0					3.0	3.0	3.0	3.0	
Recall Mode	None	None	None					C-Max	C-Max	C-Max	C-Max	
Act Effct Green (s)		35.9	35.9					71.6	71.6		71.6	
Actuated g/C Ratio		0.30	0.30					0.60	0.60		0.60	
v/c Ratio		0.18	0.95					0.27	0.20		0.50	
Control Delay		30.9	54.7					12.6	2.2		15.8	
Queue Delay		0.0	0.0					0.0	0.0		0.0	
Total Delay		30.9	54.7					12.6	2.2		15.8	
LOS		C	D					B	A		B	

Lanes, Volumes, Timings
4: Division Street & Hwy 401 South Ramp Terminal

AM Peak Hour
Existing Volumes

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach Delay		51.7						9.8			15.8	
Approach LOS		D						A			B	
Queue Length 50th (m)		13.7	93.6					31.0	0.0		65.7	
Queue Length 95th (m)		26.2	#163.2					41.3	9.9		83.5	
Internal Link Dist (m)		144.2			154.8			135.7			333.4	
Turn Bay Length (m)									30.0			
Base Capacity (vph)		484	611					1838	934		1721	
Starvation Cap Reductn		0	0					0	0		0	
Spillback Cap Reductn		0	0					0	0		0	
Storage Cap Reductn		0	0					0	0		0	
Reduced v/c Ratio		0.16	0.89					0.27	0.20		0.50	

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 7 (6%). Referenced to phase 2:NBT and 6:SBTL, Start of Green

Natural Cycle: 95

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.95

Intersection Signal Delay: 24.3

Intersection LOS: C

Intersection Capacity Utilization: 129.6%

ICU Level of Service: H

Analysis Period (min): 15

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 4: Division Street & Hwy 401 South Ramp Terminal



Lanes, Volumes, Timings
1: McAdoo's Lane & Perth Road

PM Peak Hour
Existing Volumes

						
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	86	30	649	79	13	281
Future Volume (vph)	86	30	649	79	13	281
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (m)	0.0	0.0		45.0	0.0	
Storage Lanes	1	1		1	1	
Taper Length (m)	7.5				7.5	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1687	1468	1881	1369	1570	1759
Flt Permitted	0.950				0.292	
Satd. Flow (perm)	1687	1468	1881	1369	482	1759
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)		33		64		
Link Speed (k/h)	50		50			50
Link Distance (m)	153.6		432.3			146.3
Travel Time (s)	11.1		31.1			10.5
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	7%	10%	1%	18%	15%	8%
Adj. Flow (vph)	93	33	705	86	14	305
Shared Lane Traffic (%)						
Lane Group Flow (vph)	93	33	705	86	14	305
Turn Type	Perm	Perm	NA	Perm	pm+pl	NA
Protected Phases			2		1	6
Permitted Phases	8	8		2	6	
Detector Phase	8	8	2	2	1	6
Switch Phase						
Minimum Initial (s)	10.0	10.0	20.0	20.0	5.0	20.0
Minimum Split (s)	26.7	26.7	26.5	26.5	9.0	26.5
Total Split (s)	28.0	28.0	40.0	40.0	11.0	51.0
Total Split (%)	35.4%	35.4%	50.6%	50.6%	13.9%	64.6%
Maximum Green (s)	22.3	22.3	33.5	33.5	7.0	44.5
Yellow Time (s)	3.7	3.7	4.5	4.5	4.0	4.5
All-Red Time (s)	2.0	2.0	2.0	2.0	0.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.7	5.7	6.5	6.5	4.0	6.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	Max	Max	None	Max
Walk Time (s)	7.0	7.0	7.0	7.0		7.0
Flash Dont Walk (s)	14.0	14.0	12.0	12.0		12.0
Pedestrian Calls (#/hr)	0	0	0	0		0
Act Effect Green (s)	10.6	10.6	51.0	51.0	54.2	53.1
Actuated g/C Ratio	0.15	0.15	0.72	0.72	0.76	0.75
v/c Ratio	0.37	0.13	0.52	0.09	0.03	0.23
Control Delay	31.5	10.8	9.7	3.2	3.4	4.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0

Lanes, Volumes, Timings
1: McAdoo's Lane & Perth Road

PM Peak Hour
Existing Volumes

	↙	↖	↑	↗	↘	↓
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Total Delay	31.5	10.8	9.7	3.2	3.4	4.8
LOS	C	B	A	A	A	A
Approach Delay	26.1		9.0			4.7
Approach LOS	C		A			A
Queue Length 50th (m)	12.3	0.0	40.7	0.8	0.4	13.3
Queue Length 95th (m)	23.7	6.8	113.9	7.8	1.9	25.8
Internal Link Dist (m)	129.6		406.3			122.3
Turn Bay Length (m)				45.0		
Base Capacity (vph)	531	485	1348	999	474	1312
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.18	0.07	0.52	0.09	0.03	0.23

Intersection Summary

Area Type: Other

Cycle Length: 79

Actuated Cycle Length: 71.2

Natural Cycle: 75

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.52

Intersection Signal Delay: 9.6

Intersection LOS: A

Intersection Capacity Utilization 52.7%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 1: McAdoo's Lane & Perth Road



Lanes, Volumes, Timings
3: Hwy 401 North Ramp Terminal

PM Peak Hour
Existing Volumes

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	184	0	41	0	687	476	0	257	112
Future Volume (vph)	0	0	0	184	0	41	0	687	476	0	257	112
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (m)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.4	3.4	3.6
Storage Length (m)	0.0		0.0	0.0		0.0	0.0		100.0	0.0		100.0
Storage Lanes	0		0	1		0	0		1	0		1
Taper Length (m)	7.5			7.5			7.5			7.5		
Lane Util. Factor	1.00	1.00	1.00	0.95	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Frt					0.943				0.850			0.850
Flt Protected				0.950	0.970							
Satd. Flow (prot)	0	0	0	1603	1571	0	0	3466	1551	0	3362	1392
Flt Permitted				0.950	0.970							
Satd. Flow (perm)	0	0	0	1603	1571	0	0	3466	1551	0	3362	1392
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)					68				517			146
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		293.0			172.8			357.4			347.7	
Travel Time (s)		21.1			12.4			25.7			25.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	0%	0%	7%	0%	2%	0%	3%	3%	0%	5%	16%
Adj. Flow (vph)	0	0	0	200	0	45	0	747	517	0	279	122
Shared Lane Traffic (%)				37%								
Lane Group Flow (vph)	0	0	0	126	119	0	0	747	517	0	279	122
Turn Type				Perm	NA			NA	Free		NA	Free
Protected Phases					8			2			6	
Permitted Phases				8					Free			Free
Detector Phase				8	8			2			6	
Switch Phase												
Minimum Initial (s)				10.0	10.0			20.0			20.0	
Minimum Split (s)				30.7	30.7			33.0			33.0	
Total Split (s)				30.0	30.0			50.0			50.0	
Total Split (%)				37.5%	37.5%			62.5%			62.5%	
Maximum Green (s)				24.3	24.3			42.0			42.0	
Yellow Time (s)				3.3	3.3			5.0			5.0	
All-Red Time (s)				2.4	2.4			3.0			3.0	
Lost Time Adjust (s)				0.0	0.0			0.0			0.0	
Total Lost Time (s)				5.7	5.7			8.0			8.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)				3.0	3.0			3.0			3.0	
Recall Mode				None	None			Max			Max	
Walk Time (s)				7.0	7.0			7.0			7.0	
Flash Dont Walk (s)				18.0	18.0			18.0			18.0	
Pedestrian Calls (#/hr)				0	0			0			0	
Act Effct Green (s)				11.6	11.6			45.2	70.5		45.2	70.5
Actuated g/C Ratio				0.16	0.16			0.64	1.00		0.64	1.00
v/c Ratio				0.48	0.38			0.34	0.33		0.13	0.09
Control Delay				32.0	15.8			6.6	0.6		5.5	0.1

Lanes, Volumes, Timings
3: Hwy 401 North Ramp Terminal

PM Peak Hour
Existing Volumes

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Queue Delay				0.0	0.0			0.0	0.0		0.0	0.0
Total Delay				32.0	15.8			6.6	0.6		5.5	0.1
LOS				C	B			A	A		A	A
Approach Delay					24.1			4.1			3.9	
Approach LOS					C			A			A	
Queue Length 50th (m)				15.8	6.1			20.2	0.0		6.4	0.0
Queue Length 95th (m)				31.5	19.8			35.1	0.0		13.0	0.0
Internal Link Dist (m)		269.0			148.8			333.4			323.7	
Turn Bay Length (m)									100.0			100.0
Base Capacity (vph)				554	588			2220	1551		2154	1392
Starvation Cap Reductn				0	0			0	0		0	0
Spillback Cap Reductn				0	0			0	0		0	0
Storage Cap Reductn				0	0			0	0		0	0
Reduced v/c Ratio				0.23	0.20			0.34	0.33		0.13	0.09

Intersection Summary

Area Type: Other

Cycle Length: 80

Actuated Cycle Length: 70.5

Natural Cycle: 65

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.48

Intersection Signal Delay: 6.6

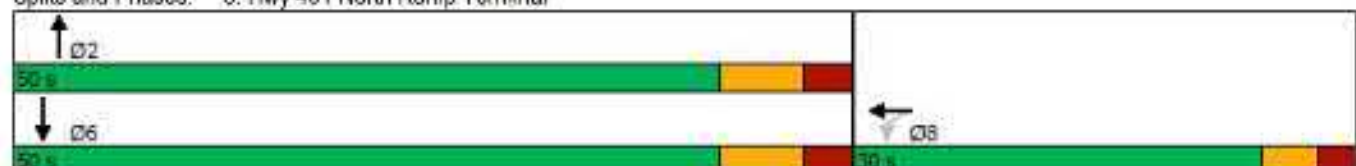
Intersection LOS: A

Intersection Capacity Utilization 38.7%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 3: Hwy 401 North Ramp Terminal



Lanes, Volumes, Timings
4: Division Street & Hwy 401 South Ramp Terminal

PM Peak Hour
Existing Volumes

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↰	↱					↰	↱		↰	↱
Traffic Volume (vph)	126	2	373	0	0	0	0	1043	353	21	414	0
Future Volume (vph)	126	2	373	0	0	0	0	1043	353	21	414	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (m)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.2	3.2	3.6	3.4	3.6
Storage Length (m)	0.0		0.0	0.0		0.0	0.0		30.0	0.0		0.0
Storage Lanes	0		1	0		0	0		1	0		0
Taper Length (m)	7.5			7.5			7.5			7.5		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.95	0.95	1.00
Frt			0.850						0.850			
Flt Protected		0.953									0.998	
Satd. Flow (prot)	0	1609	1538	0	0	0	0	3382	1498	0	3332	0
Flt Permitted		0.953									0.861	
Satd. Flow (perm)	0	1609	1538	0	0	0	0	3382	1498	0	2875	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			394						214			
Link Speed (k/h)		50			50			50			50	
Link Distance (m)		168.2			178.8			159.7			357.4	
Travel Time (s)		12.1			12.9			11.5			25.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	12%	50%	5%	0%	0%	0%	0%	2%	3%	0%	6%	0%
Adj. Flow (vph)	137	2	405	0	0	0	0	1134	384	23	450	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	139	405	0	0	0	0	1134	384	0	473	0
Turn Type	Perm	NA	Perm					NA	Perm	Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4		4						2	6		
Detector Phase	4	4	4					2	2	6	6	
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0					63.0	63.0	63.0	63.0	
Minimum Split (s)	23.5	23.5	23.5					70.0	70.0	70.0	70.0	
Total Split (s)	44.5	44.5	44.5					75.5	75.5	75.5	75.5	
Total Split (%)	37.1%	37.1%	37.1%					62.9%	62.9%	62.9%	62.9%	
Maximum Green (s)	39.0	39.0	39.0					68.5	68.5	68.5	68.5	
Yellow Time (s)	3.3	3.3	3.3					4.0	4.0	4.0	4.0	
All-Red Time (s)	2.2	2.2	2.2					3.0	3.0	3.0	3.0	
Lost Time Adjust (s)		0.0	0.0					0.0	0.0		0.0	
Total Lost Time (s)		5.5	5.5					7.0	7.0		7.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0					3.0	3.0	3.0	3.0	
Recall Mode	None	None	None					C-Max	C-Max	C-Max	C-Max	
Act Effct Green (s)		16.0	16.0					91.5	91.5		91.5	
Actuated g/C Ratio		0.13	0.13					0.76	0.76		0.76	
v/c Ratio		0.65	0.74					0.44	0.32		0.22	
Control Delay		62.5	14.0					6.2	2.9		4.8	
Queue Delay		0.0	0.0					0.0	0.0		0.0	
Total Delay		62.5	14.0					6.2	2.9		4.8	
LOS		E	B					A	A		A	

Lanes, Volumes, Timings
4: Division Street & Hwy 401 South Ramp Terminal

PM Peak Hour
Existing Volumes

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach Delay		26.4						5.4			4.8	
Approach LOS		C						A			A	
Queue Length 50th (m)		33.2	2.4					44.5	9.6		14.7	
Queue Length 95th (m)		51.9	33.0					72.0	24.4		26.1	
Internal Link Dist (m)		144.2			154.8			135.7			333.4	
Turn Bay Length (m)									30.0			
Base Capacity (vph)		522	765					2577	1192		2191	
Starvation Cap Reductn		0	0					0	0		0	
Spillback Cap Reductn		0	0					0	0		0	
Storage Cap Reductn		0	0					0	0		0	
Reduced v/c Ratio		0.27	0.53					0.44	0.32		0.22	

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 7 (6%). Referenced to phase 2:NBT and 6:SBTL, Start of Green

Natural Cycle: 95

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.74

Intersection Signal Delay: 9.8

Intersection LOS: A

Intersection Capacity Utilization: 129.6%

ICU Level of Service: H

Analysis Period (min): 15

Splits and Phases: 4: Division Street & Hwy 401 South Ramp Terminal

