Signal Justification Calculation for Forecasted Volumes
(OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)
Region/City/Township: Town of Halton Hills

Major Street: Steeles Avenue
Minor Street: Sixth Line
North/South?: N

Number of Approach Lanes: 2 or more
Tee Intersection? Y
Flow Conditions: Free

PM Forecast Only? N

Warrant Results		
150% Satisfied	No	Justification for new intersections with forecast traffic
120% Satisfied	No	Justification for existing intersections with forecast traffic

	Major Street						Minor Street						
	Steeles Avenue						Sixth Line						
	Eastbound			Westbound			Northbound			Southbound			Peds
Time Period	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Crossing
AM Peak Hour	50	1490	0	0	685	10	0	0	0	15	0	45	
PM Peak Hour	60	1130	0	0	1760	25	0	0	0	15	0	50	
Average Hourly Volume	28	655	0	0	611	9	0	0	0	8	0	24	0

Warrant	AHV
1A - All	1334
1B - Minor	31
2A - Major	1303
2B - Cross	8

Warrant 1 - Minimum Vehicular Volume

	Approach Lanes	1		2 or more		Average Hourly Volume
1A	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	All Approaches	480	720	600	900	1334
					% Fulfilled	222.3%

	Approach Lanes	1		2 or more		Average Hourly Volume
1B	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Minor Street Approaches	180	255	180	255	31
					% Fulfilled	17.4%

Warrant 2 - Delay To Cross Traffic

	Approach Lanes	1		2 or more		Average Hourly Volume
2A	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Major Street Approaches	480	720	600	900	1303
					% Fulfilled	217.1%

	Approach Lanes	1		2 or more		Average Hourly Volume
2B	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Traffic Crossing Major Street	50	75	50	75	8
					% Fulfilled	15.0%

Signal Justification Calculation for Forecasted Volumes
(OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)
Region/City/Township: Town of Halton Hills

Major Street: Steeles Avenue
Minor Street: Sixth Line South/"Street A"
North/South?: N

Number of Approach Lanes: 2 or more
Tee Intersection? N
Flow Conditions: Free

PM Forecast Only? N

Warrant Results		
150% Satisfied	Yes	Justification for new intersections with forecast traffic
120% Satisfied	Yes	Justification for existing intersections with forecast traffic

	Major Street						Minor Street						
	Steeles Avenue						Sixth Line South/"Street A"						
	Eastbound			Westbound			Northbound			Southbound			Peds
Time Period	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Crossing
AM Peak Hour	240	1440	35	110	635	105	15	45	80	20	10	50	
PM Peak Hour	45	580	15	310	1280	45	30	40	125	165	155	180	
Average Hourly Volume	71	505	13	105	479	38	11	21	51	46	41	58	0

Warrant	AHV
1A - All	1439
1B - Minor	229
2A - Major	1210
2B - Cross	99

Warrant 1 - Minimum Vehicular Volume

	Approach Lanes	1		2 or more		Average Hourly Volume
1A	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	All Approaches	480	720	600	900	1439
					% Fulfilled	239.8%

	Approach Lanes	1		2 or more		Average Hourly Volume
1B	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Minor Street Approaches	120	170	120	170	229
					% Fulfilled	190.6%

Warrant 2 - Delay To Cross Traffic

	Approach Lanes	1		2 or more		Average Hourly Volume
2A	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Major Street Approaches	480	720	600	900	1210
					% Fulfilled	201.7%

	Approach Lanes	1		2 or more		Average Hourly Volume
2B	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Traffic Crossing Major Street	50	75	50	75	99
					% Fulfilled	197.5%

Signal Justification Calculation for Forecasted Volumes
(OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)
Region/City/Township: Town of Halton Hills

Major Street: Steeles Avenue
Minor Street: Hornby Road
North/South?: N

Number of Approach Lanes: 2 or more
Tee Intersection? Y
Flow Conditions: Free

PM Forecast Only? N

Warrant Results		
150% Satisfied	No	Justification for new intersections with forecast traffic
120% Satisfied	No	Justification for existing intersections with forecast traffic

	Major Street						Minor Street						
	Steeles Avenue						Hornby Road						
	Eastbound			Westbound			Northbound			Southbound			Peds
Time Period	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Crossing
AM Peak Hour	60	1375	0	0	770	55	0	0	0	15	0	50	
PM Peak Hour	45	910	0	0	1570	35	0	0	0	60	0	90	
Average Hourly Volume	26	571	0	0	585	23	0	0	0	19	0	35	0

Warrant	AHV
1A - All	1259
1B - Minor	54
2A - Major	1205
2B - Cross	19

Warrant 1 - Minimum Vehicular Volume

	Approach Lanes	1		2 or more		Average Hourly Volume
1A	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	All Approaches	480	720	600	900	1259
					% Fulfilled	209.8%

	Approach Lanes	1		2 or more		Average Hourly Volume
1B	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Minor Street Approaches	180	255	180	255	54
					% Fulfilled	29.9%

Warrant 2 - Delay To Cross Traffic

	Approach Lanes	1		2 or more		Average Hourly Volume
2A	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Major Street Approaches	480	720	600	900	1205
					% Fulfilled	200.8%

	Approach Lanes	1		2 or more		Average Hourly Volume
2B	Flow Conditions	Free	Restricted	Free	Restricted	
				X		
	Traffic Crossing Major Street	50	75	50	75	19
					% Fulfilled	37.5%

Signal Justification Calculation for Forecasted Volumes
(OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)
Region/City/Township: Town of Halton Hills

Major Street: Trafalgar Road
Minor Street: Hornby Road
North/South?: Y

Number of Approach Lanes: 1
Tee Intersection? Y
Flow Conditions: Free

PM Forecast Only? N

Warrant Results		
150% Satisfied	Yes	Justification for new intersections with forecast traffic
120% Satisfied	Yes	Justification for existing intersections with forecast traffic

	Major Street Trafalgar Road						Minor Street Hornby Road						
	Northbound			Southbound			Eastbound			Westbound			Peds
Time Period	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Crossing
AM Peak Hour	5	460	0	0	1895	310	80	0	10	0	0	0	
PM Peak Hour	5	1545	0	0	570	155	325	0	10	0	0	0	
Average Hourly Volume	3	501	0	0	616	116	101	0	5	0	0	0	0

Warrant	AHV
1A - All	1343
1B - Minor	106
2A - Major	1236
2B - Cross	101

Warrant 1 - Minimum Vehicular Volume

	Approach Lanes	1		2 or more		Average Hourly Volume
1A	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	All Approaches	480	720	600	900	1343
					% Fulfilled	279.7%

	Approach Lanes	1		2 or more		Average Hourly Volume
1B	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	Minor Street Approaches	180	255	180	255	106
					% Fulfilled	59.0%

Warrant 2 - Delay To Cross Traffic

	Approach Lanes	1		2 or more		Average Hourly Volume
2A	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	Major Street Approaches	480	720	600	900	1236
					% Fulfilled	257.6%

	Approach Lanes	1		2 or more		Average Hourly Volume
2B	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	Traffic Crossing Major Street	50	75	50	75	101
					% Fulfilled	202.5%

Signal Justification Calculation for Forecasted Volumes
(OTM Book 12 - Justification 7)

Horizon Year: 2026 (Total Traffic)
Region/City/Township: Town of Halton Hills

Major Street: Trafalgar Road
Minor Street: "Street B"
North/South?: Y

Number of Approach Lanes: 1
Tee Intersection? N
Flow Conditions: Free

PM Forecast Only? N

Warrant Results		
150% Satisfied	Yes	Justification for new intersections with forecast traffic
120% Satisfied	Yes	Justification for existing intersections with forecast traffic

	Major Street Trafalgar Road						Minor Street "Street B"						
	Northbound			Southbound			Eastbound			Westbound			Peds
Time Period	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right	Crossing
AM Peak Hour	50	420	280	95	1765	60	25	0	20	70	0	25	
PM Peak Hour	70	1320	145	50	515	85	115	0	100	340	0	115	
Average Hourly Volume	30	435	106	36	570	36	35	0	30	103	0	35	0

Warrant	AHV
1A - All	1416
1B - Minor	203
2A - Major	1214
2B - Cross	138

Warrant 1 - Minimum Vehicular Volume

	Approach Lanes	1		2 or more		Average Hourly Volume
1A	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	All Approaches	480	720	600	900	1416
					% Fulfilled	295.1%

	Approach Lanes	1		2 or more		Average Hourly Volume
1B	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	Minor Street Approaches	120	170	120	170	203
					% Fulfilled	168.8%

Warrant 2 - Delay To Cross Traffic

	Approach Lanes	1		2 or more		Average Hourly Volume
2A	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	Major Street Approaches	480	720	600	900	1214
					% Fulfilled	252.9%

	Approach Lanes	1		2 or more		Average Hourly Volume
2B	Flow Conditions	Free	Restricted	Free	Restricted	
		X				
	Traffic Crossing Major Street	50	75	50	75	138
					% Fulfilled	275.0%