

**FRENCH STREET AT JOHN STREET MUTCD TRAFFIC SIGNAL WARRANT ANALYSIS (MUTCD 2023, CHAPTER 4C)**

85th Percentile > 40 mph? OR Population <10,000 people? N

**Warrant 1 - Eight Hour Vehicular Volume**

One of the Following Conditions Must Be Met for any 8 hours of an average day (Table 4C-1)

**Individual Option:**

**Condition A: Minimum Vehicular Volume**

100%

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	500	0	783	661	406	339	0	0	0	634	538	520	509	0
John Street/Driveway	1	150	0	205	166	124	106	0	0	0	251	160	271	226	0
Met?			NO	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES	YES	NO

OR

**Condition B: Interruption of Continuous Traffic**

100%

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	750	0	783	661	406	339	0	0	0	634	538	520	509	0
John Street/Driveway	1	75	0	205	166	124	106	0	0	0	251	160	271	226	0
Met?			NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Result: NO

**Combination Option:**

**Condition A: Minimum Vehicular Volume**

80%

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	400	0	783	661	406	339	0	0	0	634	538	520	509	0
John Street/Driveway	1	120	0	205	166	124	106	0	0	0	251	160	271	226	0
Met?			NO	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES	NO

AND

**Condition B: Interruption of Continuous Traffic**

80%

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	600	0	783	661	406	339	0	0	0	634	538	520	509	0
John Street/Driveway	1	60	0	205	166	124	106	0	0	0	251	160	271	226	0
Met?			NO	YES	YES	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO

Result: NO

**Warrant 2 - Four Hour Vehicular Volume**

Must be met for any 4 hours of an average day

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	Figure 4C-1	0	783	661	406	339	0	0	0	634	538	520	509	0
John Street/Driveway	1	Figure 4C-1	0	205	166	124	106	0	0	0	251	160	271	226	0
Met?			NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO

Result: NO

**Warrant 3 - Peak Hour**

Must be met for 1 hour of an average day

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	Figure 4C-3	0	783	661	406	339	0	0	0	634	538	520	509	0
John Street/Driveway	1	Figure 4C-3	0	205	166	124	106	0	0	0	251	160	271	226	0
Met?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Result: NO

**Warrant 4 - Pedestrian Volumes**

**Option 1 - Must be met for any 4 hours of an average day**

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	Figure 4C-5	0	739	661	406	339	0	0	0	634	538	520	509	0
Crossing Peds	1	Figure 4C-5	0	150	91	71	49	0	0	0	148	73	104	101	0
Met?			NO	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO

Result: NO

**Option 2 - Must be met for 1 hour of an average day**

Street	Lanes	Minimum Volume	Manual Count Data												
			6-7 AM	7-8 AM	8-9 AM	9-10 AM	10-11 AM	11-12 PM	12-1 PM	1-2 PM	2-3 PM	3-4 PM	4-5 PM	5-6 PM	6-7 PM
French Street	1	Figure 4C-6	0	739	661	406	339	0	0	0	634	538	520	509	0
Crossing Peds	1	Figure 4C-6	0	150	91	71	49	0	0	0	148	73	104	101	0
Met?			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Result: NO

**Warrant 5 - School Crossing**

The School Crossing signal warrant is intended for application where the fact that school children cross the major street is the principal reason to consider installing a traffic control signal. Before a decision is made to install a traffic control signal, consideration should be given to the implementation of other remedial measures.

Result: NO

**Warrant 6 - Coordinated Signal System**

Coordinated Signal System signal warrant should not be applied where the resultant spacing of traffic control signals would be less than 1,000 feet

Bridge Street and French Street intersection distance: 400 feet

Result: NO

**Warrant 7 - Crash Experience**

Minimum Number of Reported Angle and Pedestrian Crashes in a One-Year Period: 5  
Pedestrian Crashes reported: 1/1/2021-12/1/2024: 2

Result: NO

**Warrant 8 - Roadway Network and Warrant 9 - Intersection Near a Grade Crossing - Not Applicable**