

Appendix T

PRELIMINARY TRAFFIC SIGNAL
WARRANT SUMMARY

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Peach Lake Road (NYS Route 121)

Lanes: 2 Critical Approach Speed: 55
Lanes: 1 excluding right turn lane and volume

Volume Level Criteria

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? Yes No
 2. Is the intersection in a built-up area of isolated community of <10,000 population? Yes No
- If Question 1 or 2 above is answered "Yes", then use "70%" volume level 70% 100%

WARRANT 1 CONDITION A - EIGHT-HOUR VEHICULAR VOLUME

Applicable: Yes No
Satisfied: Yes No

Warrant 1 is satisfied if Condition A or B is "100%" satisfied.
Warrant 1 is also satisfied if both Condition A and Condition B are "80%" satisfied.

Warrant 1 Condition A - Minimum Vehicular Volume

100% Satisfied: Yes No
70% Satisfied: Yes No 80% Satisfied: Yes No

(volumes in veh/hr)	Minimum Requirements (80% Shown in Brackets)				Eighth Highest Hours																	
					1		2 or more		7 a.m.	8 a.m.	5 p.m.	6 p.m.	8 a.m.	9 a.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
	100%	70%	100%	70%																		
Both Approaches on Major Street	500 (400)	350 (280)	600 (480)	420 (336)	1,286	995	958	952	897	808	780	756										
Highest Approach on Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	170	217	156	194	178	123	160	128										

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if parenthetical volumes are met for eight hours.

Condition B - Interruption of Continuous Traffic

Condition B is intended for application where the traffic volume is so heavy that traffic on the minor street suffers excessive delay.

Applicable: Yes No
Excessive Delay: Yes No
100% Satisfied: Yes No
70% Satisfied: Yes No 80% Satisfied: Yes No

(volumes in veh/hr)	Minimum Requirements (80% Shown in Brackets)				Eighth Highest Hours																	
					1		2 or more		7 a.m.	8 a.m.	5 p.m.	6 p.m.	8 a.m.	9 a.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
	100%	70%	100%	70%																		
Both Approaches on Major Street	750 (600)	525 (420)	900 (720)	630 (504)	1,286	995	958	952	897	808	780	756										
Highest Approach on Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	170	217	156	194	178	123	160	128										

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if parenthetical volumes are met for eight hours.

Warrant 1 - Combination of Conditions A & B

Warrant 1 Condition A 80% Satisfied: Yes No
Warrant 1 Condition B 80% Satisfied: Yes No

For (80% of 70% is 56 %)

Applicable: Yes No
Both Warrant 1 Conditions A and B Satisfied: Yes No

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Peach Lake Road (NYS Route 121)

Lanes: 2 Critical Approach Speed: 55
Lanes: 1 excluding right turn lane and volume

Volume Level Criteria

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? Yes No
 2. Is the intersection in a built-up area of isolated community of <10,000 population? Yes No
- If Question 1 or 2 above is answered "Yes", then use "70%" volume level 70% 100%

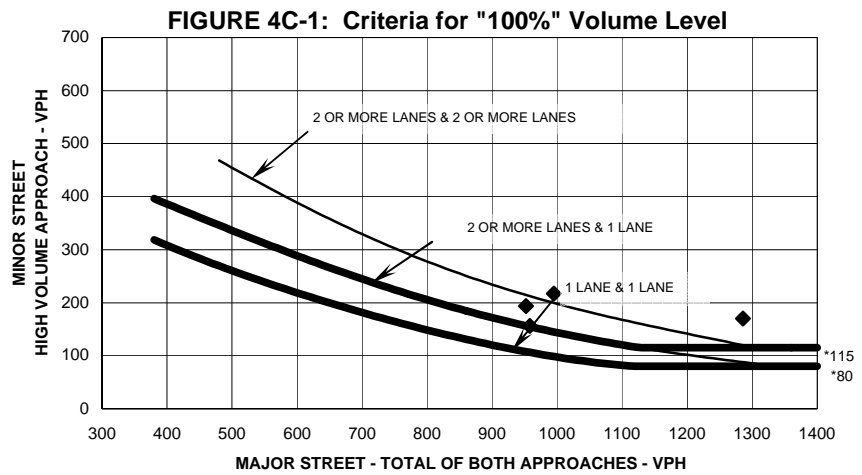
WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME

If all fourth highest points lie above the appropriate line, then the warrant is satisfied.

Applicable: Yes No
Satisfied: Yes No

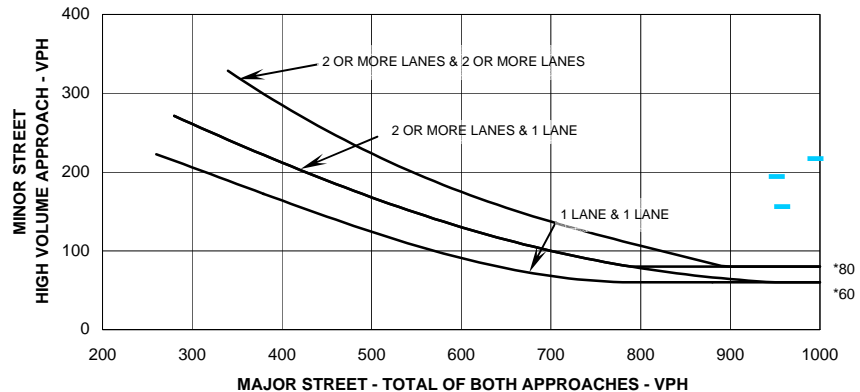
Plot four volume combinations on the applicable figure below.

Fourth Highest Hours	Volumes	
	Major Street	Minor Street
7 a.m. 8 a.m.	1,286	170
6 p.m. 7 p.m.	995	217
8 a.m. 9 a.m.	958	156
5 p.m. 6 p.m.	952	194



* Note: 115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-2: Criteria for "70%" Volume Level
(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)



* Note: 80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Peach Lake Road (NYS Route 121)

Lanes: 2 Critical Approach Speed: 55
Lanes: 1 excluding right turn lane and volume

Volume Level Criteria

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? Yes No
 2. Is the intersection in a built-up area of isolated community of <10,000 population? Yes No
- If Question 1 or 2 above is answered "Yes", then use "70%" volume level 70% 100%

WARRANT 3 - PEAK HOUR VOLUME

If the plotted point lies above the appropriate line, then the warrant is satisfied.

Applicable: Yes No
Satisfied: Yes No
Existing

Plot volume combination on the applicable figure below.

Existing Peak Hour		
	1286	170
70% volume Level		

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Existing Peak Hour		

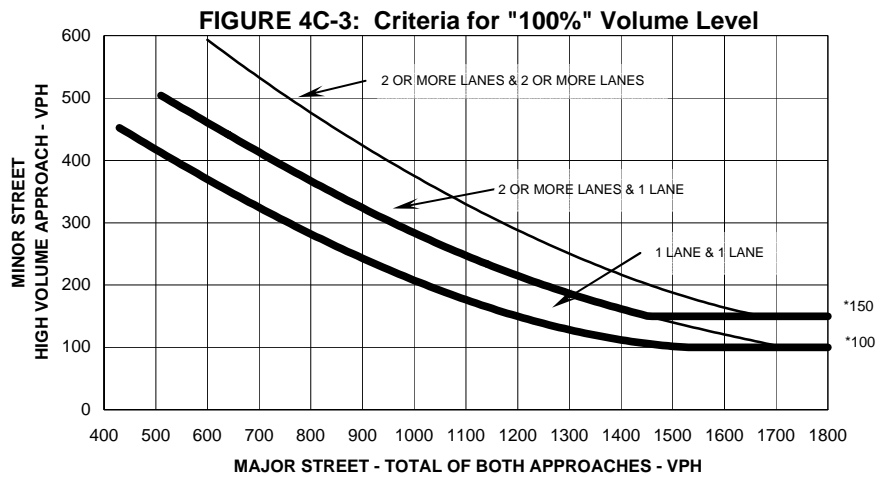
WARRANT 3: PEAK HOUR DELAY
If all three criteria are fulfilled
Criteria

1. Delay on Minor Approach *(vehicle-hours)		
Approach Lanes	1	2
Delay Criteria*	4.0	5.0
Delay*	76.0	
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

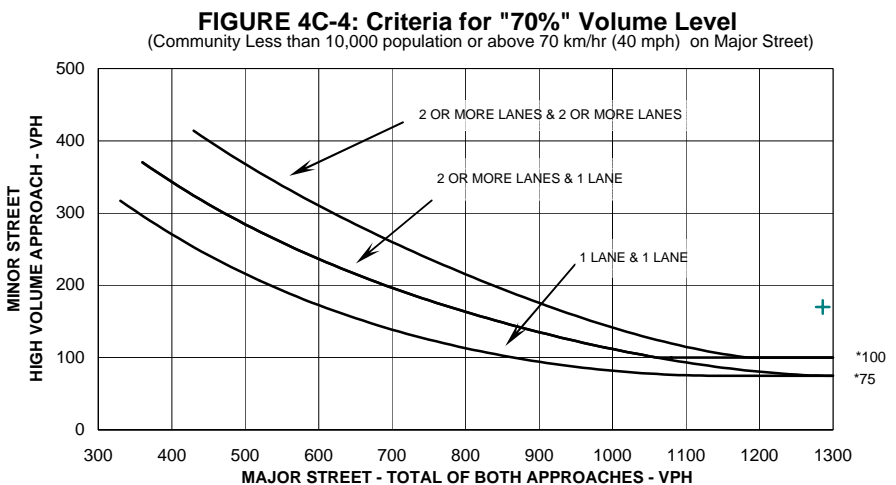
Existing

2. Volume on Minor Approach *(vehicles per hour)		
Approach Lanes	1	2
Volume Criteria*	100	150
Volume*	170	
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. Total Entering Volume *(vehicles per hour)		
No. of Approaches	3	4
Volume Criteria*	650	800
Volume*	1,456	
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Peach Lake Road (NYS Route 121)

Lanes: 2
Lanes: 1 excluding right turn lane and volume

WARRANT 4 - PEDESTRIAN VOLUME

Record hours where criteria are fulfilled and the corresponding volume or gap frequency in the boxes provided. The warrant is satisfied if condition 1 or 2 is fulfilled and condition 3 is fulfilled. **Reduce ped. Volume if there Avg. speed is less than 3.5 ft/sec (NYS Criteria)**

Applicable: Yes No
Satisfied: Yes No

Criteria	Hour	Pedestrian Volume	Pedestrian Gaps	Fulfilled?	
				Yes	No
1. Pedestrian volume crossing the major street is 100 ped/hr or more for each of any four hours <u>and</u> there are less than 60 gaps per hour in the major street traffic stream of adequate length.		est. < 25/hr			<input checked="" type="checkbox"/>
2. Pedestrian volume crossing the major street is 190 ped/hr or more for any one hour <u>and</u> there are less than 60 gaps per hour in the major street traffic stream of adequate length.		est. < 25/hr			<input checked="" type="checkbox"/>
3. The nearest traffic signal along the major street is located more than 90 m (300 ft) away, or the nearest signal is within 90 m (300 ft) but the proposed traffic signal will not restrict the progressive movement of traffic.				<input checked="" type="checkbox"/>	

WARRANT 5 - SCHOOL CROSSING

Record hours where criteria are fulfilled and the corresponding volume or gap frequency in the boxes provided. The warrant is satisfied if all three of the criteria are fulfilled. **Nearest school JFK Elementary is 3.9 miles away**

Applicable: Yes No
Satisfied: Yes No

Criteria	Fulfilled?		
	Yes	No	
1. There are a minimum of 20 students crossing the major street during the highest crossing hour.	Students: estimated <10	Hour:	x
2. There are fewer adequate gaps in the major street traffic stream during the period when the children are using the crossing than the number of minutes in the same period.	Minutes:	Gaps:	
3. The nearest traffic signal along the major street is located more than 90 m (300 ft) away, or the nearest signal is within 90 m (300 ft) but the proposed traffic signal will not restrict the progressive movement of traffic.			x

WARRANT 6 - COORDINATED SIGNAL SYSTEM

Indicate if the criteria are fulfilled in the boxes provided. The warrant is satisfied if either criterion is fulfilled. This warrant should not be applied when the resulting signal spacing would be less than 300 m (1,000 ft).

Applicable: Yes No
Satisfied: Yes No

Proposed spacing is 4000 and 5000 feet too far to platoon
Assume 3200 ft platooning max TRB HCM page 10-23

Criteria	Fulfilled?	
	Yes	No
1. On a one-way street or a street that has traffic predominately in one direction, the adjacent signals are so far apart that they do not provide the necessary degree of vehicle platooning.		
2. On a two-way street, adjacent signals do not provide the necessary degree of platooning, and the proposed and adjacent signals will collectively provide a progressive operation.		x

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
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Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Peach Lake Road (NYS Route 121)

Lanes: 2
Lanes: 1 excluding right turn lane and volume

WARRANT 7 - CRASH EXPERIENCE

Record hours where criteria are fulfilled, the corresponding volume, and other information in the boxes provided. The warrant is satisfied if all three of the criteria are fulfilled.

Applicable: Yes No
Satisfied: Yes No

Criteria	Hour	Volume	Met?		Fulfilled?	
			Yes	No	Yes	No
1. One of the warrants to the right is met.	Warrant 1 Condition A (80% satisfied)		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	Warrant 1, Condition B (80% satisfied)		<input checked="" type="checkbox"/>			
	Warrant 4, Pedestrian Volume at 80% of volume requirements: 80 ped/hr for eight (8) hours			<input checked="" type="checkbox"/>		
	estimated		<25/hr			
2. Adequate trial of other remedial measure has failed to reduce crash frequency.		Measure tried:				<input checked="" type="checkbox"/>
3. Five or more reportable crashes, of types susceptible to correction by signal, have occurred within a 12-mo. period.		Number of crashes per 12 months: 5 in 3 yrs				<input checked="" type="checkbox"/>

WARRANT 8 - ROADWAY NETWORK

Record hours where criteria are fulfilled, and the corresponding volume or other information in the boxes provided. The warrant is satisfied if at least one of the criteria is fulfilled and if all intersecting routes have one or more of the characteristics listed.

Applicable: Yes No
Satisfied: Yes No

Criteria	Met?		Fulfilled?			
	Yes	No	Yes	No		
1. Both of the criteria to the right are met.	a. Total entering volume of at least 1,000 veh/hr during a typical weekday peak hour.		Entering Volume: 1,456		<input checked="" type="checkbox"/>	
	b. Five-year projected volumes that satisfy Warrants 1, 2, and 3.		Warrant: 1 2 3			
	Satisfied?:		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>			
2. Total entering volume at least 1,000 veh/hr for each of any 5 hrs of a non-normal business day (Sat. or Sun.) Saturday Peaks	2 p.m.	1 p.m.	12 p.m.	11 a.m.	3-4 p.m.	<input checked="" type="checkbox"/>
	3 p.m.	2 p.m.	1 p.m.	12 p.m.	4-5 p.m.	
← Hour						
← Volume						

Characteristics of Major Routes	Met?		Fulfilled?	
	Yes	No	Yes	No
1. Part of the street or highway system that serves as the principal roadway network for through traffic flow.	Major Street:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Minor Street:	<input checked="" type="checkbox"/>		
2. Rural or suburban highway outside of, entering, or traversing a city.	Major Street:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Minor Street:	<input checked="" type="checkbox"/>		
3. Appears as a major route on an official plan. US Route 6 arterial on SE Com plan US 6 & NYS 121 are Urban Minor Arterials	Major Street:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Minor Street:	<input checked="" type="checkbox"/>		

CONCLUSIONS

Warrants Satisfied: 1 2 3

Remarks: Warrant 1 meets Conditions A and B at 70% and Combination of Conditions A & B
Warrant 8 depends on definition of major highway

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Sodom Road (east)

Lanes: 1 Critical Approach Speed: 40
Lanes: 1 excluding right turn lane and volume

Volume Level Criteria

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? Yes No
 2. Is the intersection in a built-up area of isolated community of <10,000 population? Yes No
- If Question 1 or 2 above is answered "Yes", then use "70%" volume level 70% 100%

WARRANT 1 CONDITION A - EIGHT-HOUR VEHICULAR VOLUME

Applicable: Yes No
Satisfied: Yes No

Warrant 1 is satisfied if Condition A or B is "100%" satisfied.
Warrant 1 is also satisfied if both Condition A and Condition B are "80%" satisfied.

Warrant 1 Condition A - Minimum Vehicular Volume 100% Satisfied: Yes No
70% Satisfied: Yes No 80% Satisfied: Yes No

(volumes in veh/hr)	Minimum Requirements (80% Shown in Brackets)				Eighth Highest Hours																	
					1		2 or more		5 p.m.	6 p.m.	4 p.m.	5 p.m.	7 a.m.	8 a.m.	6 p.m.	7 p.m.	8 a.m.	9 a.m.	3 p.m.	4 p.m.	2 p.m.	3 p.m.
	100%	70%	100%	70%																		
Both Approaches on Major Street	500 (400)	350 (280)	600 (480)	420 (336)	1,355	1,227	1,157	1,078	1,012	1,001	864	853										
Highest Approach on Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	93	70	180	148	125	93	72	70										

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if parenthetical volumes are met for eight hours.

Condition B - Interruption of Continuous Traffic Applicable: Yes No
Condition B is intended for application where the traffic volume is Excessive Delay: Yes No
so heavy that traffic on the minor street suffers excessive delay. 100% Satisfied: Yes No
70% Satisfied: Yes No 80% Satisfied: Yes No

(volumes in veh/hr)	Minimum Requirements (80% Shown in Brackets)				Eighth Highest Hours																	
					1		2 or more		5 p.m.	6 p.m.	4 p.m.	5 p.m.	7 a.m.	8 a.m.	6 p.m.	7 p.m.	8 a.m.	9 a.m.	3 p.m.	4 p.m.	2 p.m.	3 p.m.
	100%	70%	100%	70%																		
Both Approaches on Major Street	750 (600)	525 (420)	900 (720)	630 (504)	1,355	1,227	1,157	1,078	1,012	1,001	864	853										
Highest Approach on Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	93	70	180	148	125	93	72	70										

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if parenthetical volumes are met for eight hours.

Warrant 1 - Combination of Conditions A & B

Warrant 1 Condition A 80% Satisfied: Yes No
Warrant 1 Condition B 80% Satisfied: Yes No

For (80% of 70% is 56 %)

Applicable: Yes No
Both Warrant 1 Conditions A and B Satisfied: Yes No

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Sodom Road (east)

Lanes: 1 Critical Approach Speed: 40
Lanes: 1 excluding right turn lane and volume

Volume Level Criteria

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? Yes No
 2. Is the intersection in a built-up area of isolated community of <10,000 population? Yes No
- If Question 1 or 2 above is answered "Yes", then use "70%" volume level 70% 100%

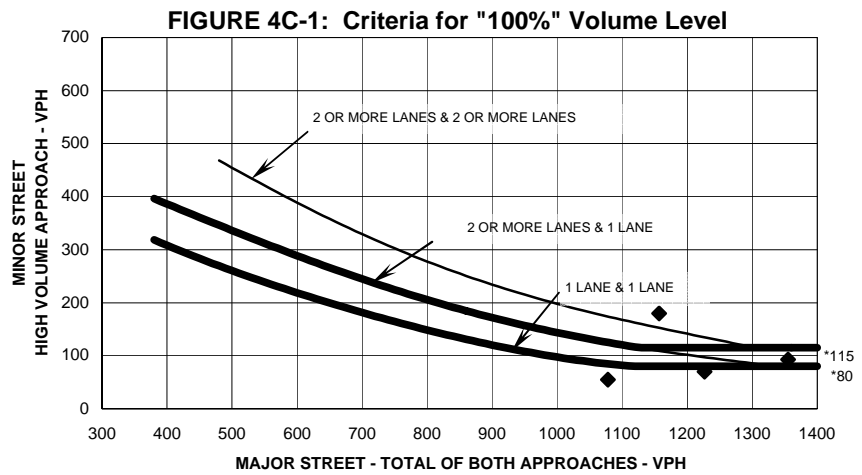
WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME

If all fourth highest points lie above the appropriate line, then the warrant is satisfied.

Applicable: Yes No
Satisfied: Yes No

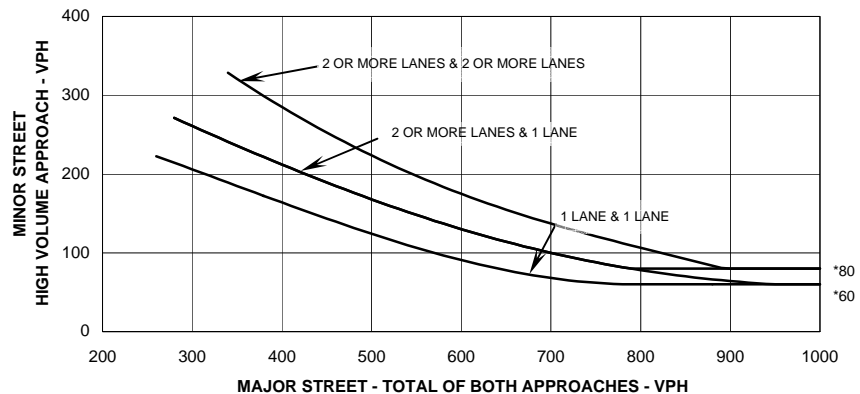
Plot four volume combinations on the applicable figure below.

Fourth Highest Hours	Volumes	
	Major Street	Minor Street
5 p.m.	1,355	93
6 p.m.	1,227	70
4 p.m.	1,157	180
5 p.m.	1,078	55
7 a.m.	1,157	180
8 a.m.	1,078	55
6 p.m.	1,078	55
7 p.m.	1,078	55



* Note: 115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

FIGURE 4C-2: Criteria for "70%" Volume Level
(Community Less than 10,000 population or above 70 km/hr (40 mph) on Major Street)



* Note: 80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Sodom Road (east)

Lanes: 1 Critical Approach Speed: 40
Lanes: 1 excluding right turn lane and volume

Volume Level Criteria

1. Is the critical speed of major street traffic > 70 km/h (40 mph) ? Yes No
 2. Is the intersection in a built-up area of isolated community of <10,000 population? Yes No
- If Question 1 or 2 above is answered "Yes", then use "70%" volume level 70% 100%

WARRANT 3 - PEAK HOUR VOLUME

If the plotted point lies above the appropriate line, then the warrant is satisfied.

Applicable: Yes No
Satisfied: Yes No

Plot volume combination on the applicable figure below.

Existing Peak Hour	
70% volume Level	

Record hour when criteria are fulfilled and the corresponding delay or volume in boxes provided.

Existing Peak Hour	

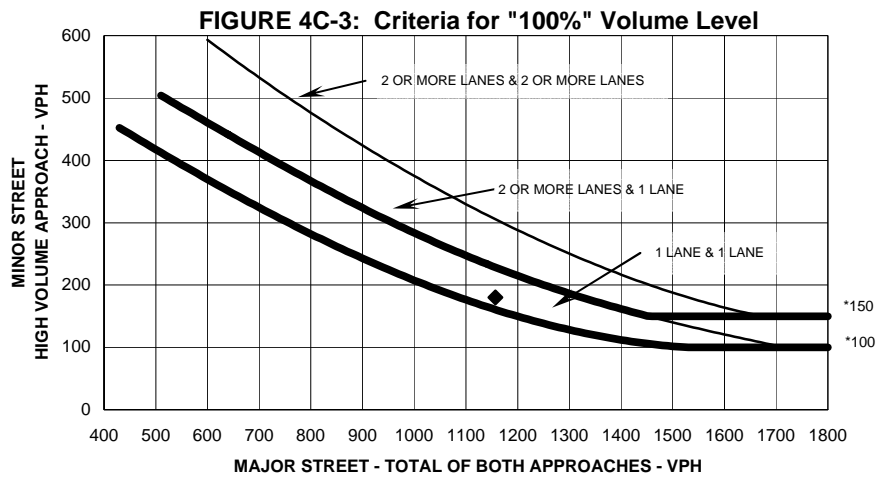
WARRANT 3: PEAK HOUR DELAY
If all three criteria are fulfilled
Criteria

1. Delay on Minor Approach *(vehicle-hours)		
Approach Lanes	1	2
Delay Criteria*	4.0	5.0
Delay*		2.0
Fulfilled?:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

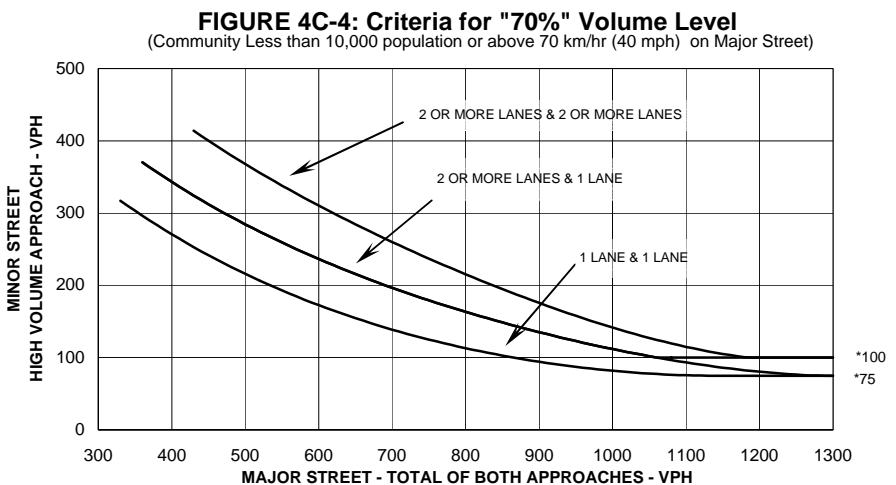
Existing

2. Volume on Minor Approach *(vehicles per hour)		
Approach Lanes	1	2
Volume Criteria*	100	150
Volume*		180
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. Total Entering Volume *(vehicles per hour)		
No. of Approaches	3	4
Volume Criteria*	650	800
Volume*		1337+
Fulfilled?:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No



* Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume threshold for a minor street approach with one lane.



* Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume threshold for a minor street approach with one lane.

PRELIMINARY TRAFFIC SIGNAL WARRANT SUMMARY

Municipality: Town of Southeast
County: Putnam

By: JAG TMA
Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Sodom Road (east)

Lanes: 1
Lanes: 1

WARRANT 4 - PEDESTRIAN VOLUME

Record hours where criteria are fulfilled and the corresponding volume or gap frequency in the boxes provided. The warrant is satisfied if condition 1 or 2 is fulfilled and condition 3 is fulfilled. **Reduce ped. Volume if there Avg. speed is less than 3.5 ft/sec (NYS Criteria)**

Applicable: Yes No
Satisfied: Yes No

Criteria	Hour	Pedestrian Volume	Pedestrian Gaps	Fulfilled?	
				Yes	No
1. Pedestrian volume crossing the major street is 100 ped/hr or more for each of any four hours <u>and</u> there are less than 60 gaps per hour in the major street traffic stream of adequate length.		est. < 25/hr			<input checked="" type="checkbox"/>
2. Pedestrian volume crossing the major street is 190 ped/hr or more for any one hour <u>and</u> there are less than 60 gaps per hour in the major street traffic stream of adequate length.		est. < 25/hr			<input checked="" type="checkbox"/>
3. The nearest traffic signal along the major street is located more than 90 m (300 ft) away, or the nearest signal is within 90 m (300 ft) but the proposed traffic signal will not restrict the progressive movement of traffic.				<input checked="" type="checkbox"/>	

WARRANT 5 - SCHOOL CROSSING

Record hours where criteria are fulfilled and the corresponding volume or gap frequency in the boxes provided. The warrant is satisfied if all three of the criteria are fulfilled. Nearest school Garden Street Elementary is 1.3 miles away

Applicable: Yes No
Satisfied: Yes No

Criteria	Fulfilled?	
	Yes	No
1. There are a minimum of 20 students crossing the major street during the highest crossing hour.	Students: estimated <10	Hour: x
2. There are fewer adequate gaps in the major street traffic stream during the period when the children are using the crossing than the number of minutes in the same period.	Minutes:	Gaps:
3. The nearest traffic signal along the major street is located more than 90 m (300 ft) away, or the nearest signal is within 90 m (300 ft) but the proposed traffic signal will not restrict the progressive movement of traffic.	x	

WARRANT 6 - COORDINATED SIGNAL SYSTEM

Indicate if the criteria are fulfilled in the boxes provided. The warrant is satisfied if either criterion is fulfilled. This warrant should not be applied when the resulting signal spacing would be less than 300 m (1,000 ft).

Applicable: Yes No
Satisfied: Yes No

Spacing is about 2000 to the west and less than 1000 feet east. Assume 3200 ft platooning max TRB HCM page 10-23

Criteria	Fulfilled?	
	Yes	No
1. On a one-way street or a street that has traffic predominately in one direction, the adjacent signals are so far apart that they do not provide the necessary degree of vehicle platooning.		
2. On a two-way street, adjacent signals do not provide the necessary degree of platooning, and the proposed and adjacent signals will collectively provide a progressive operation.		x

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Date: April 2008 Memo

Major Street: US Route 6
Minor Street: Sodom Road (east)

Lanes: 1
Lanes: 1 excluding right turn lane and volume

WARRANT 7 - CRASH EXPERIENCE

Record hours where criteria are fulfilled, the corresponding volume, and other information in the boxes provided. The warrant is satisfied if all three of the criteria are fulfilled.

Applicable: Yes No
Satisfied: Yes No

Criteria	Hour	Volume	Met?		Fulfilled?	
			Yes	No	Yes	No
1. One of the warrants to the right is met.	Warrant 1 Condition A (80% satisfied)			<input checked="" type="checkbox"/>		
	Warrant 1, Condition B (80% satisfied)			<input checked="" type="checkbox"/>		
	Warrant 4, Pedestrian Volume at 80% of volume requirements: 80 ped/hr for eight (8) hours				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	estimated	<25/hr				
2. Adequate trial of other remedial measure has failed to reduce crash frequency.	Measure tried:					<input checked="" type="checkbox"/>
3. Five or more reportable crashes, of types susceptible to correction by signal, have occurred within a 12-mo. period.	Number of crashes per 12 months: 4 in 3 yrs					<input checked="" type="checkbox"/>

WARRANT 8 - ROADWAY NETWORK

Record hours where criteria are fulfilled, and the corresponding volume or other information in the boxes provided. The warrant is satisfied if at least one of the criteria is fulfilled and if all intersecting routes have one or more of the characteristics listed.

Applicable: Yes No
Satisfied: Yes No

Criteria	Met?		Fulfilled?			
	Yes	No	Yes	No		
1. Both of the criteria to the right are met.	a. Total entering volume of at least 1,000 veh/hr during a typical weekday peak hour.	Entering Volume: 1,448		<input checked="" type="checkbox"/>		
	b. Five-year projected volumes that satisfy Warrants 1, 2, and 3.	Warrant:	1	2	3	
		Satisfied?:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Total entering volume at least 1,000 veh/hr for each of any 5 hrs of a non-normal business day (Sat. or Sun.) Saturday Peaks	2 p.m.	12 p.m.	11 a.m.	1 p.m.	3 p.m.	<input checked="" type="checkbox"/>
	3 p.m.	1 p.m.	12 p.m.	2 p.m.	4 p.m.	
	1,111	1,083	1,072	1,062	1,058	
	← Hour					
	← Volume					

Characteristics of Major Routes	Met?		Fulfilled?	
	Yes	No	Yes	No
1. Part of the street or highway system that serves as the principal roadway network for through traffic flow.	Major Street:	<input checked="" type="checkbox"/>		
	Minor Street:	<input checked="" type="checkbox"/>		
2. Rural or suburban highway outside of, entering, or traversing a city.	Major Street:	<input checked="" type="checkbox"/>		
	Minor Street:	<input checked="" type="checkbox"/>		
3. Appears as a major route on an official plan. US Route 6 arterial on SE Com plan	Major Street:	<input checked="" type="checkbox"/>		
	Minor Street:	<input checked="" type="checkbox"/>		

CONCLUSIONS

Warrants Satisfied: **3**

Remarks: Warrant 3 met