## Separate Left Turn Phase Warrant "Kentucky Method"

Project No. \_\_\_\_\_

Intersection:

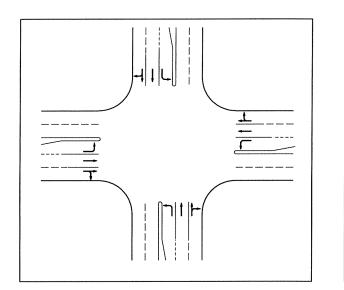
The traffic volumes used below in this analysis are for peak hour volumes. The analysis should consider peak hour volumes + 5 year traffic volume projections for design of new traffic signals.

Analysis:

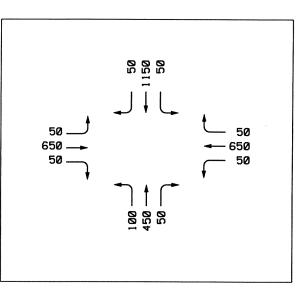
Volume of Left Turn Vehicles X <u>Volume of Opposing Through Vehicles</u> = "X" Number of Opposing Through Lanes

"X" = Left Turn Conflict Factor

- 1. If "X" is less than 50,000, a separate left turn phase may not be required.
- 2. If "X" is equal to or greater than 50,000, a separate left turn phase should be considered.







INTERSECTION LAYOUT



NB	$100 \times \frac{1150}{2} = 57,500$	Greater than 50,000
SB	$50 \times \frac{450}{2} = 11,250$	Less than 50,000
WB	$50 \times \frac{650}{2} = 15,000$	Less than 50,000
EB	$50 \times \frac{650}{2} = 19,500$	Less than 50,000

Northbound left turn meets warrants for a separate left turn phase.