

	Speed Limit	D
	mph	ft
	40	250
	45	300
	50	355
	55	420

 $L = 6ft \times 6ft$ Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers

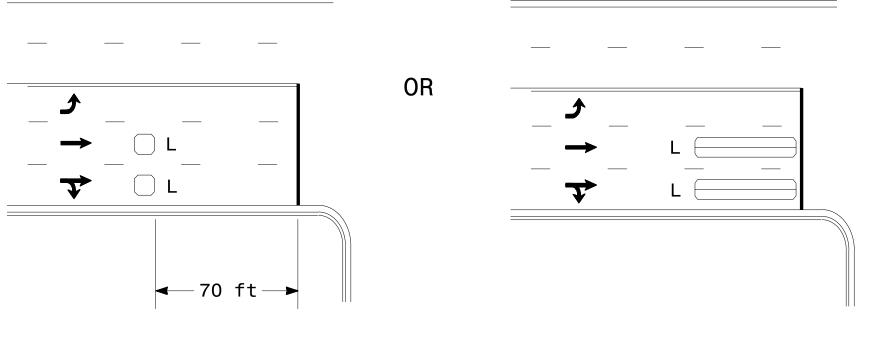
Speed Limit ft 250 80 45 300 90 50 355 100 110

Wired in series

L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series



 $L = 6ft \times 6ft$ Wired in series

L = 6ft X 40ftQuadrupole loop, wired separately

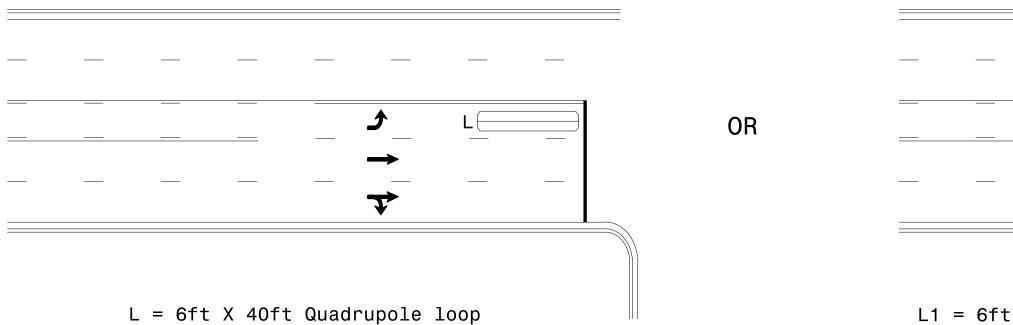
Right Turn Lane Detection

L2 = 6ft X 6ft [Minimum] Presence loop

L1 = 6ft X 40ft Quadrupole loop

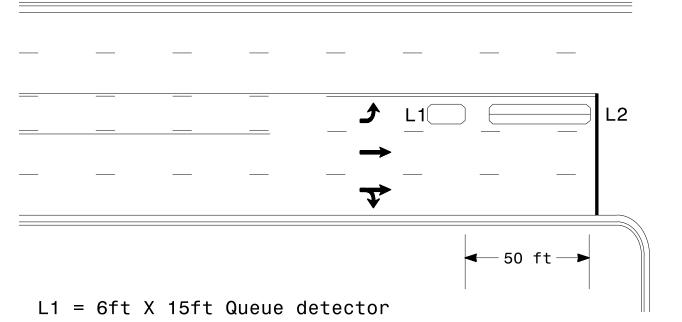
Wired separately

Left Turn Lane Detection



Presence Loop Detection

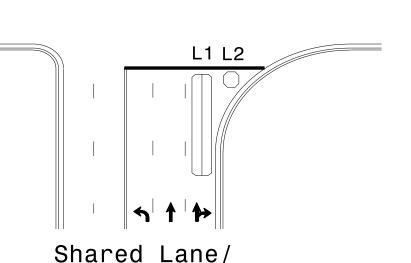
Volume Density Operation



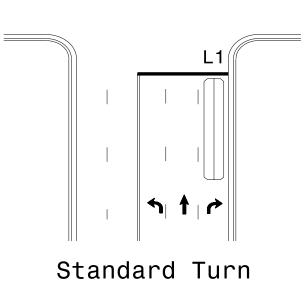
Queue Loop Detection

L2 = 6ft X 40ft Quadrupole loop

"Stretch" Operation



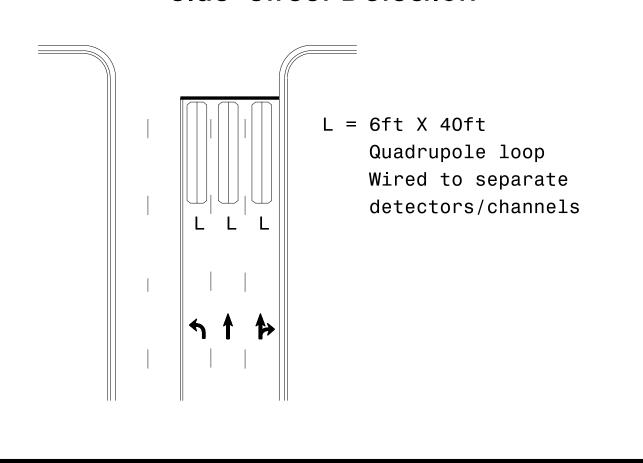
Shared Lane/ Wide Radius Turn



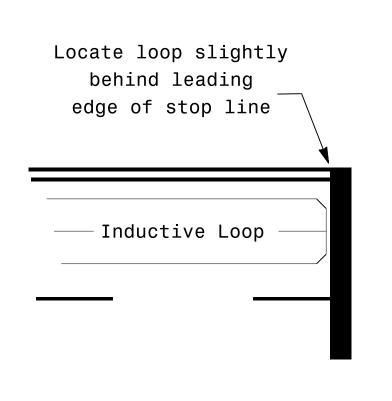
Wide Radius Turn

Channelized Turn

Side Street Detection



Presence Loop Placement at Stop Lines



Note:

Loop may be located in advance of stop line under any of the following conditions:

- 1) stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

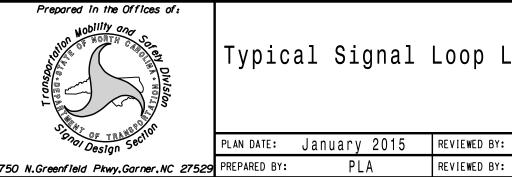
Recommended Number of Turns

Single 6' X 6' loop (when wired separately):

ich wird Separatery).		
Length of Lead-in ft	Number of Turns	
< 250	3	
250-375	4	
375-525	5	
> 525	6	

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops: Lead-in < 150', use 2 turns Lead-in > 150', use 3 turns



Typical Signal Loop Locations

REVIEWED BY: PLA REVISIONS INIT. DATE PL Alexander

N/A

SCALE