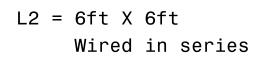


	Speed Limit	D
	mph	ft
	40	250
	45	300
	50	355
	55	420

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

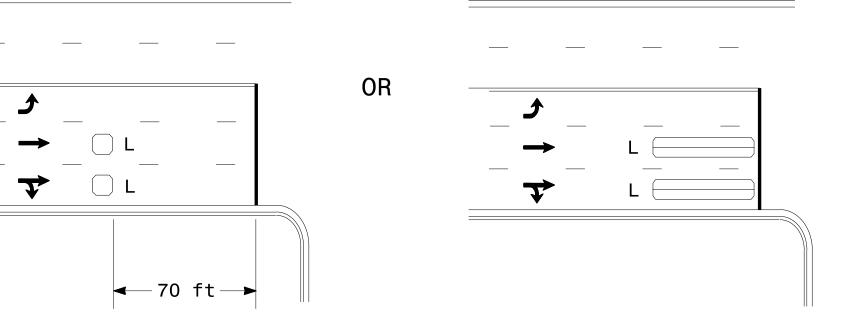
Speed Limit ft 250 80 45 300 90 50 355 100 110

"Stretch" Operation



Wired in series

L1 = 6ft X 6ft



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

L = 6ft X 40ftQuadrupole loop, wired separately

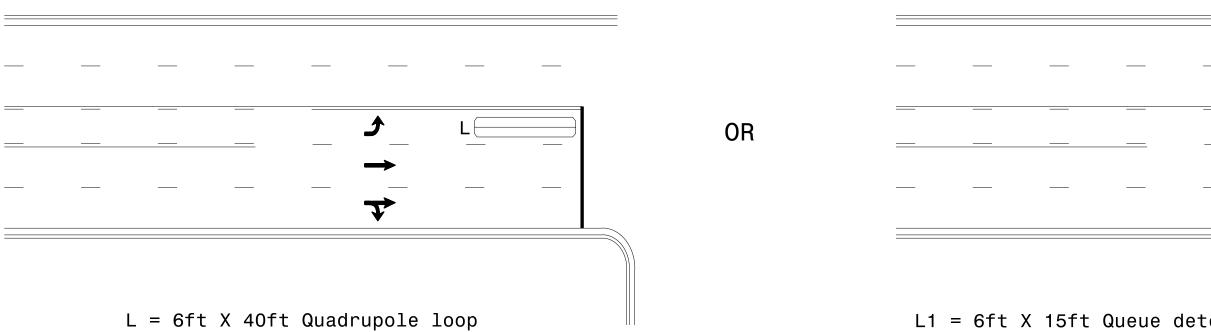
Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

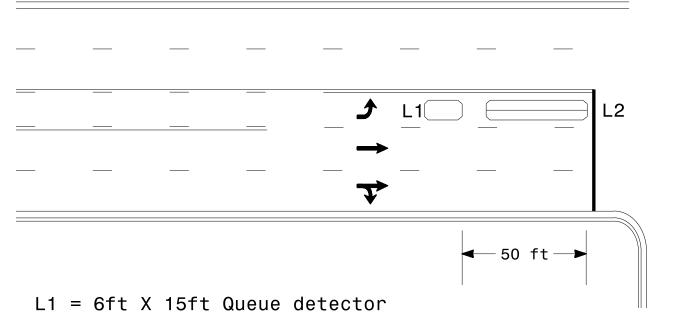
Wired separately

## Left Turn Lane Detection



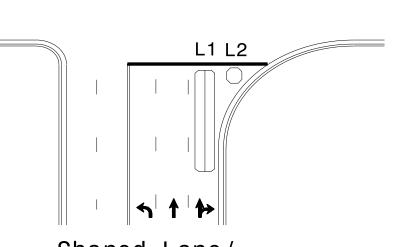
Presence Loop Detection

Volume Density Operation

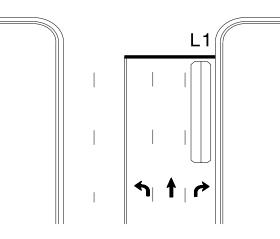


Queue Loop Detection

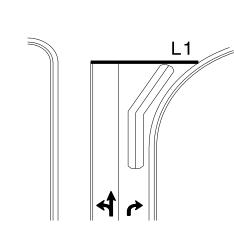
L2 = 6ft X 40ft Quadrupole loop



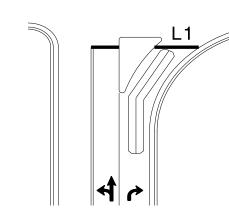
Shared Lane/ Wide Radius Turn



Standard Turn

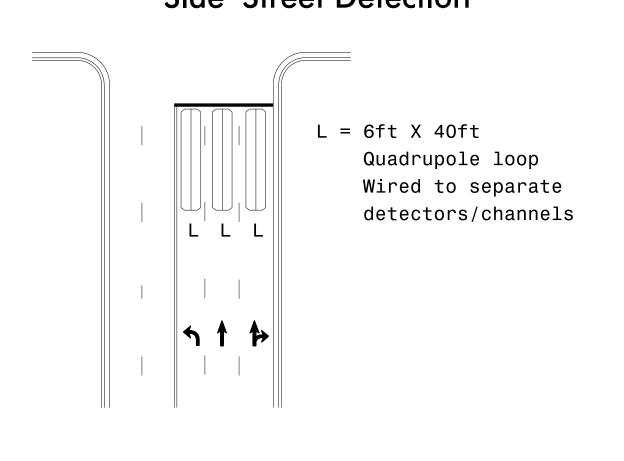


Wide Radius Turn

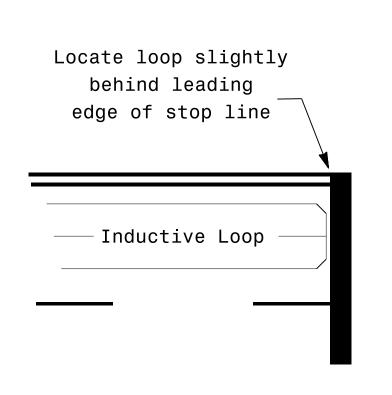


Channelized Turn

## 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



SCALE

N/A

Typical Signal Loop Locations

PLAN DATE: January 2015 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander