

 $L1 = 6ft \times 6ft$

L2 = 6ft X 6ft

Wired in series

Wired in series

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

L = 6ft X 6ft Wired separately

 Speed Limit mph
 D1 ft
 D2 ft

 40
 250
 80

 45
 300
 90

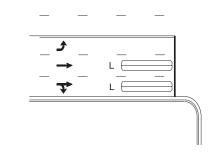
 50
 355
 100

420

"Stretch" Operation

110

L = 6ft X 6ft Wired in series



L = 6ft X 40ft
Quadrupole loop, wired separately

Right Turn Lane Detection

L1 = 6ft X 40ft Quadrupole loop L2 = 6ft X 6ft [Minimum] Presence loop

Wired separately

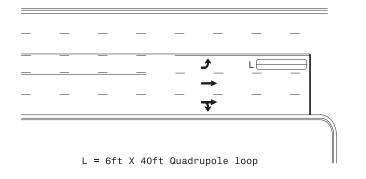
Left Turn Lane Detection

OR

High Speed Detection

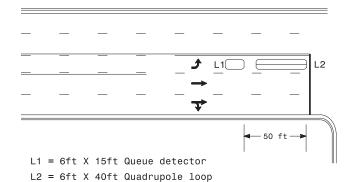
(≥40 mph)

OR

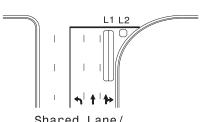


Volume Density Operation

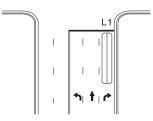
Presence Loop Detection



Queue Loop Detection

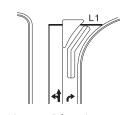


Shared Lane/ Wide Radius Turn



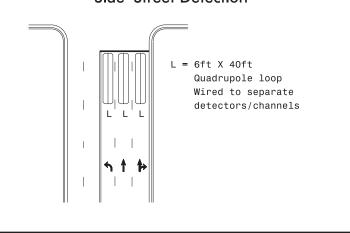
Standard Turn

turn Wide Radius Turn

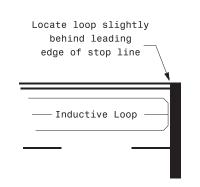


Channelized Turn

Side Street Detection



Presence Loop Placement at Stop Lines



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

- 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):

-	
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

OF TRUESON	PLAN DATE: Seg	otember 2020	REVIEWED BY:	JPG		
N.Greenfield Pkwy,Garner,NC 27529	PREPARED BY:	PLA	REVIEWED BY:			
SCALE	REVISIONS			INIT.	DATE	
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