

Right Turn Lane Detection

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

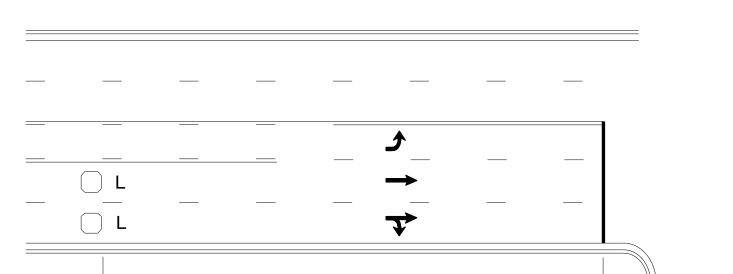
L1 = 6ft X 40ft Quadrupole loop

Wired separately

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

L = 6ft X 40ft

Quadrupole loop, wired separately



OR			_		
	<u> </u>			_	
	L1			\rightarrow	► □ L2
			_	**	
					◄ ── D
	•			— D1——	

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

"Stretch" Operation

L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

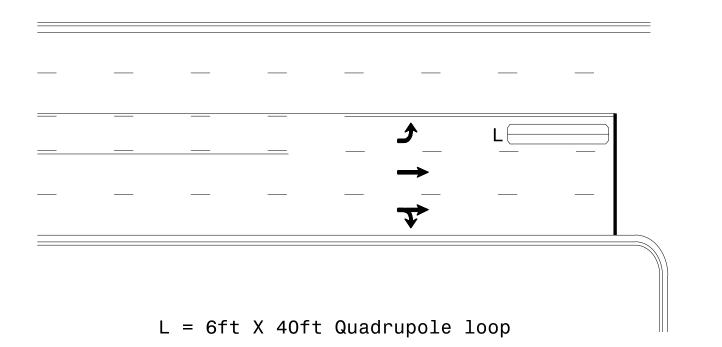
Wired in series

Wired in series

Left Turn Lane Detection

High Speed Detection

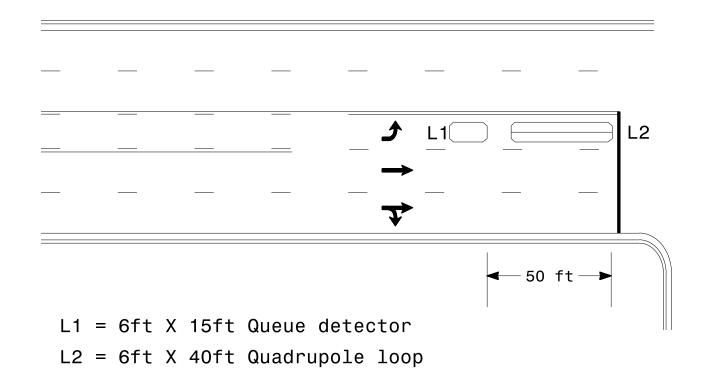
(≥40 mph)



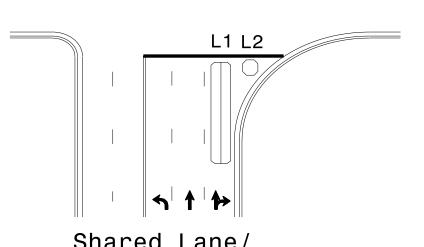
Volume Density Operation



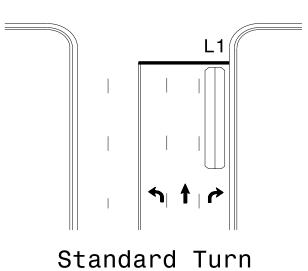
Presence Loop Detection

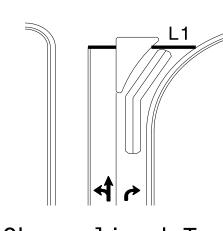


Queue Loop Detection



Shared Lane/ Wide Radius Turn

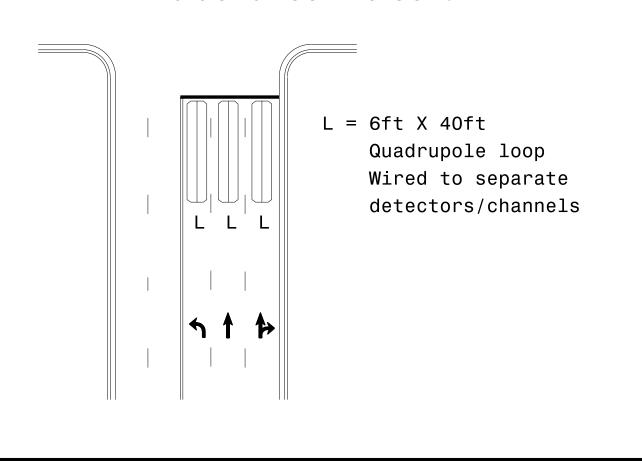




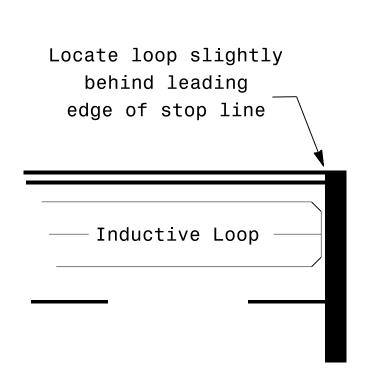
Wide Radius Turn

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

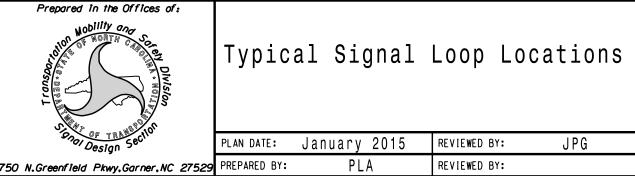
Recommended Number of Turns

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

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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



PLAN DATE: January 2015 REVIEWED BY: REVIEWED BY: PLA

REVISIONS

INIT. DATE PL Alexander

SCALE N/A