

		_		_
			•	
	<u> </u>		→ □L2	_
			T _ L2	_
				D0 -
◄ —		D1		D2 →

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

Wired in series

L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series

OR **←** 70 ft →

 $L = 6ft \times 6ft$ 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

Volume Density Operation

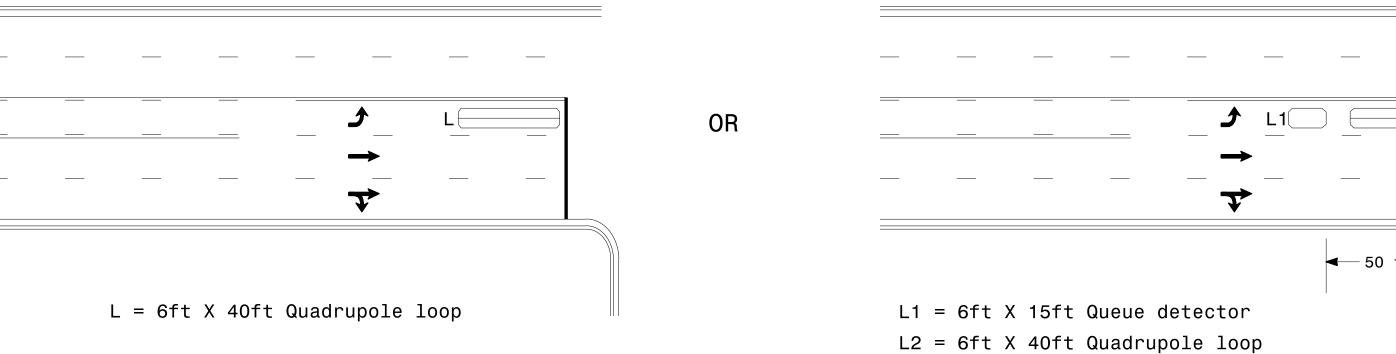
"Stretch" Operation

Left Turn Lane Detection

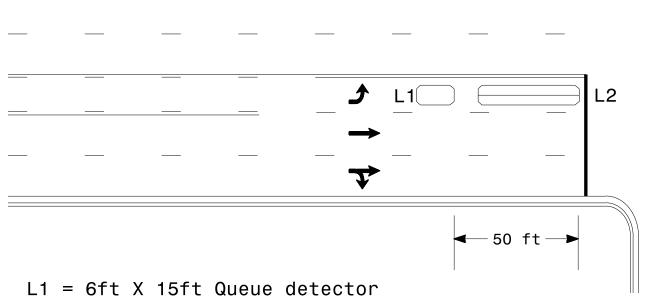
High Speed Detection

(≥40 mph)

OR



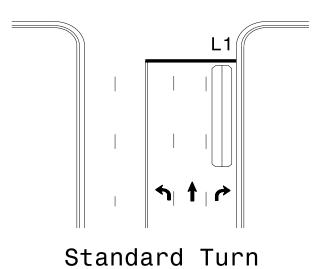
Presence Loop Detection



Queue Loop Detection

↑ ↑ **→**

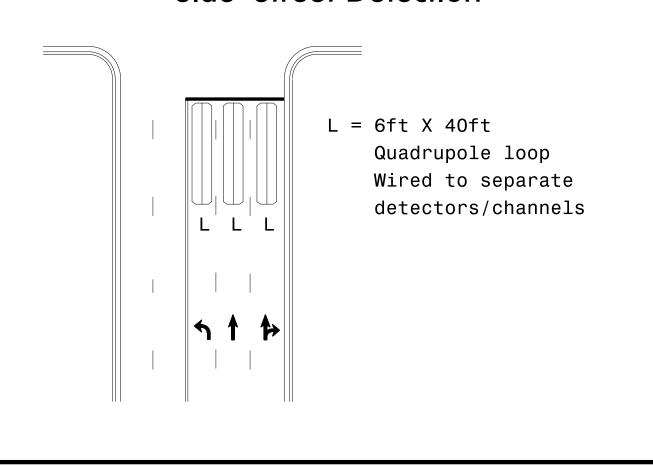
Shared Lane/ Wide Radius Turn



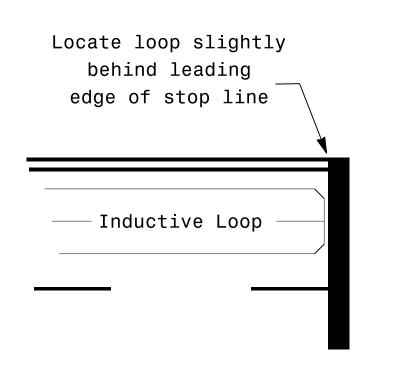
Wide Radius Turn

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

SCALE

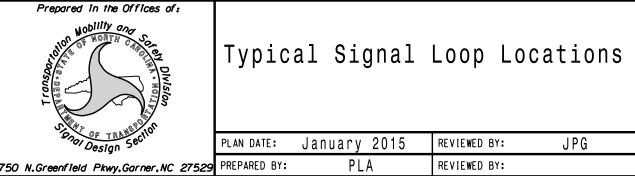
N/A

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

	30pa: a 20_3 / 1
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