

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

 $L2 = 6ft \times 6ft$

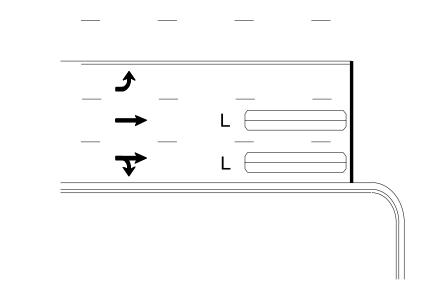
L1 = 6ft X 6ft

Wired in series

← 70 ft →

OR

L = 6ft X 6ftWired in series



PROJECT REFERENCE NO.

SIG-1

I-5937

L = 6ft X 40ftQuadrupole loop, wired separately

Right Turn Lane Detection

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

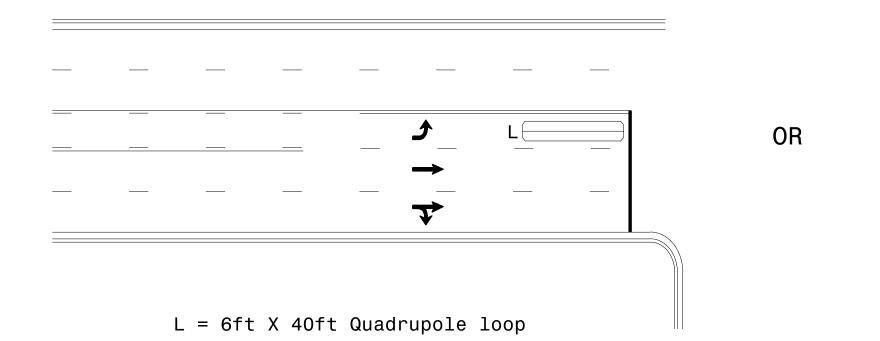
L1 = 6ft X 40ft Quadrupole loop

Wired separately

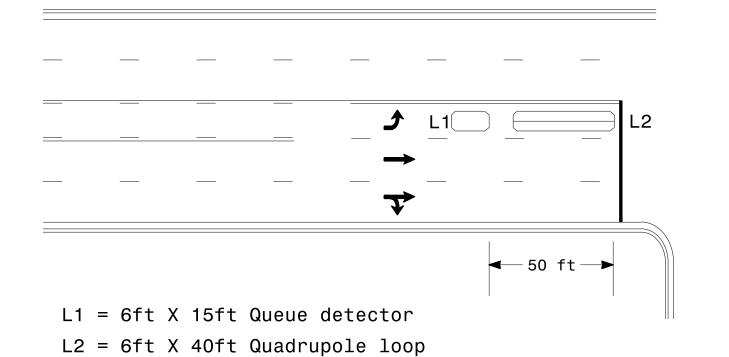
Volume Density Operation

"Stretch" Operation

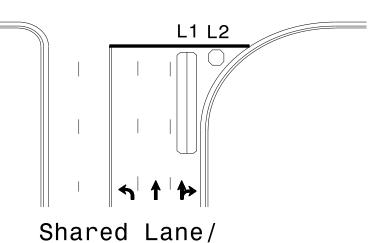
Left Turn Lane Detection



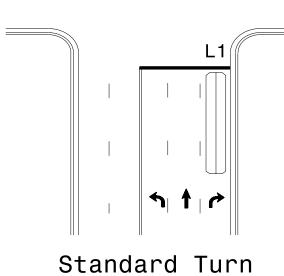
Presence Loop Detection

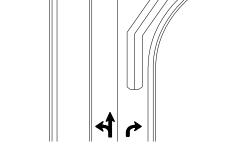


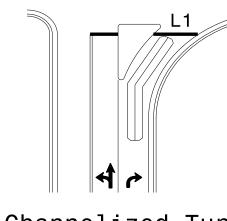
Queue Loop Detection



Wide Radius Turn



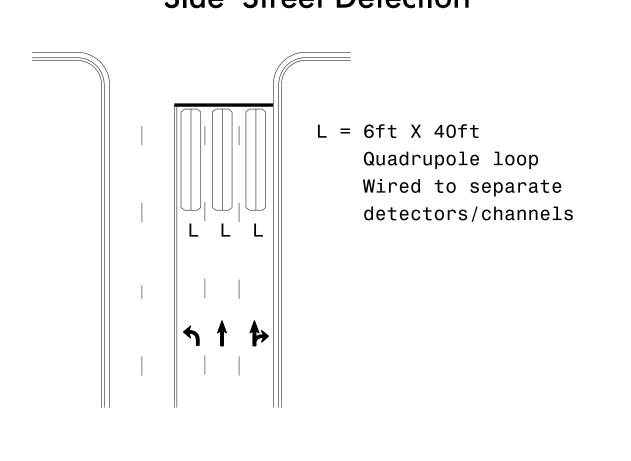




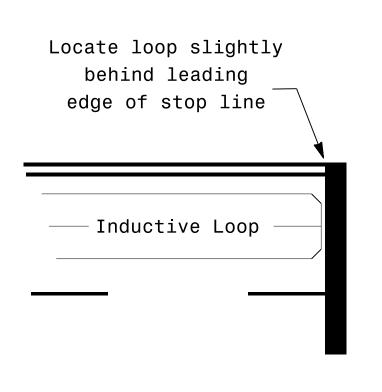
Wide Radius Turn

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

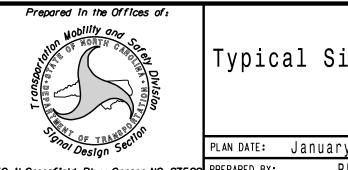
Recommended Number of Turns

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



Typical Signal Loop Locations

	PLAN DATE:	January 2015	REVIEWED BY:	JPG]
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PL Alexander SIG. INVENTORY NO.

SCALE N/A