

"Stretch" Operation

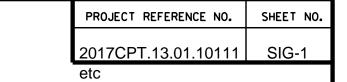
Speed Limit	D1	D2
mph	ft	ft
40	250	80
45	300	90
50	355	100
55	420	110

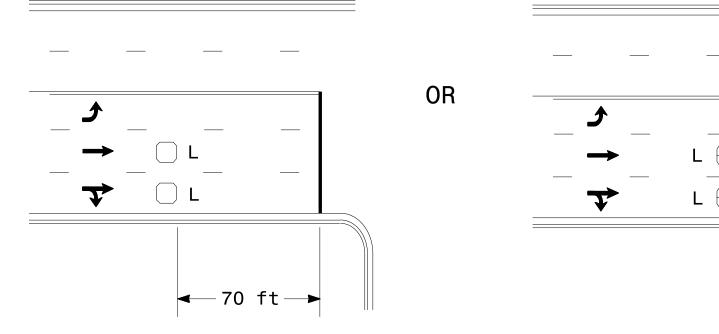
L2 = 6ft X 6ftWired in series

 $L1 = 6ft \times 6ft$

Wired in series

Low Speed Detection (≤35 mph)





L = 6ft X 6ftWired in series

L = 6ft X 40ftQuadrupole loop, wired separately

Right Turn Lane Detection

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

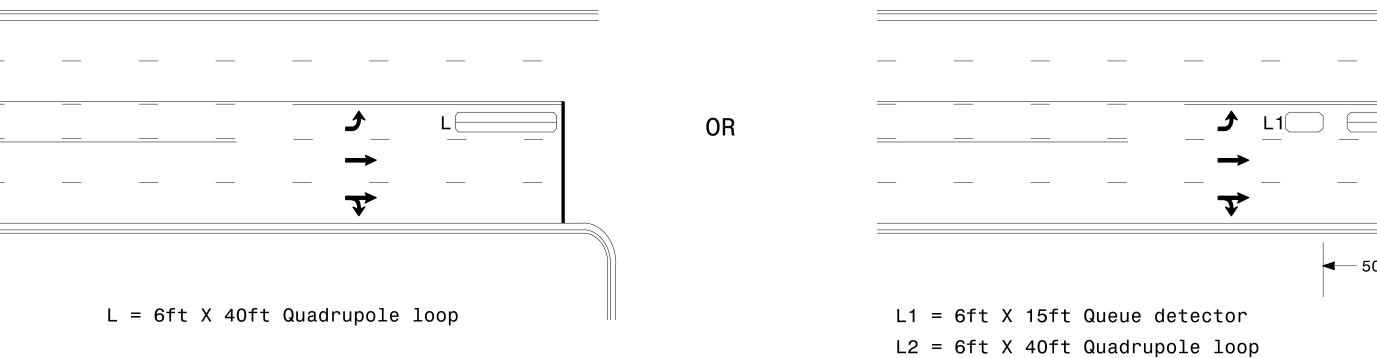
L1 = 6ft X 40ft Quadrupole loop

Wired separately

Left Turn Lane Detection

High Speed Detection

(≥40 mph)



Presence Loop Detection

 $L = 6ft \times 6ft$

Wired in series for TS1

Wired separately for TS2,

170, and 2070L Controllers

Controllers

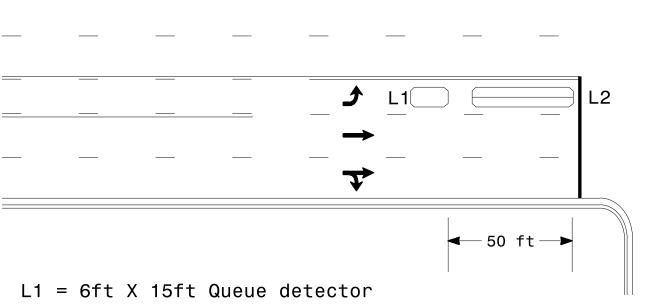
ft

250

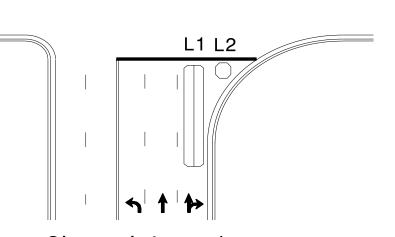
300

355

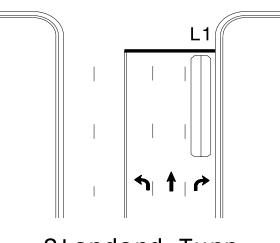
420



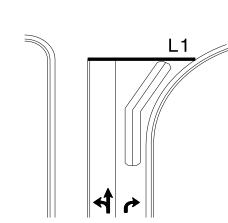
Queue Loop Detection



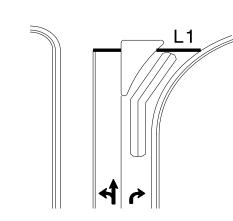
Shared Lane/ Wide Radius Turn



Standard Turn

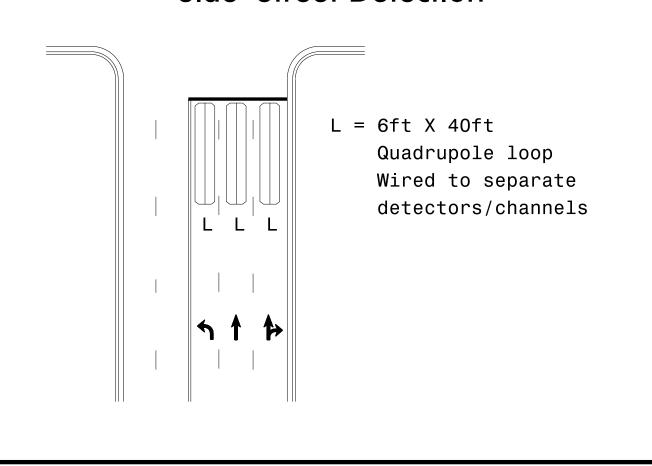


Wide Radius Turn

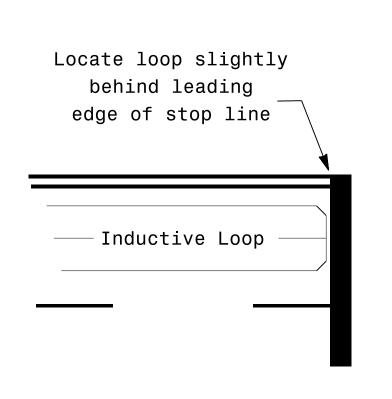


Channelized Turn

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

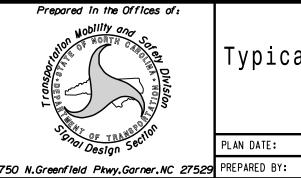
Recommended Number of Turns

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

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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



SCALE

N/A

Typical Signal Loop Locations

PLAN DATE: January 2015 REVIEWED BY: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander