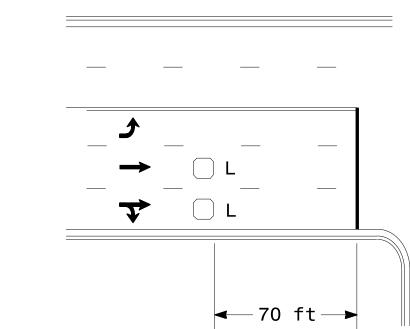
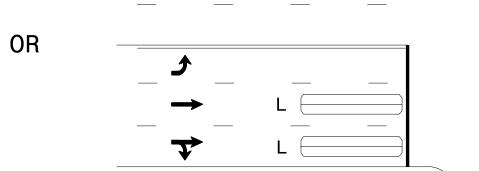


Low Speed Detection (≤35 mph)





L = 6ft X 6ftWired in series

L = 6ft X 40ftQuadrupole loop, wired separately

Right Turn Lane Detection

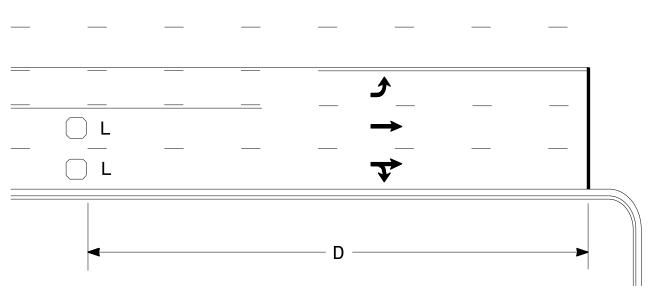
L2 = 6ft X 6ft [Minimum] Presence loop

L1 = 6ft X 40ft Quadrupole loop

Wired separately

High Speed Detection (≥40 mph)

OR



_			
>			

L = 6ft X 6ft				
Wired in series for TS1				
Controllers				
Wired separately for TS2,				
170, and 2070L Controllers				

Volume Density Operation

ft

250

300

355

420

Speed Limit

40

50

55

Speed Limit ft 250 80 90 355 100 110

"Stretch" Operation

→ □ L2

- D2 ----**>**

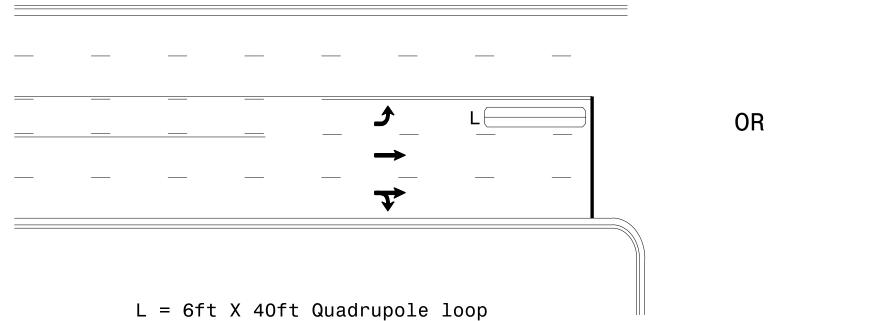
L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

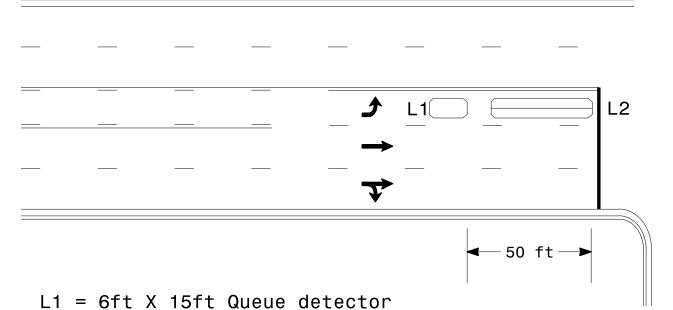
Wired in series

Wired in series

Left Turn Lane Detection



Presence Loop Detection

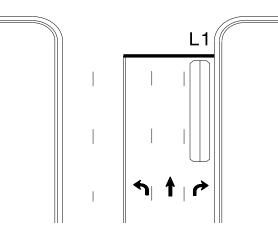


L2 = 6ft X 40ft Quadrupole loop

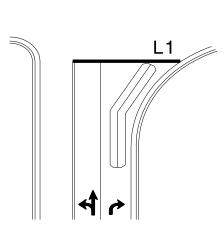
Queue Loop Detection

↑ ↑ **→**

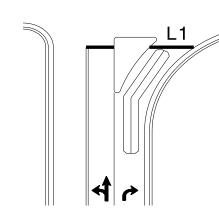
Shared Lane/ Wide Radius Turn



Standard Turn

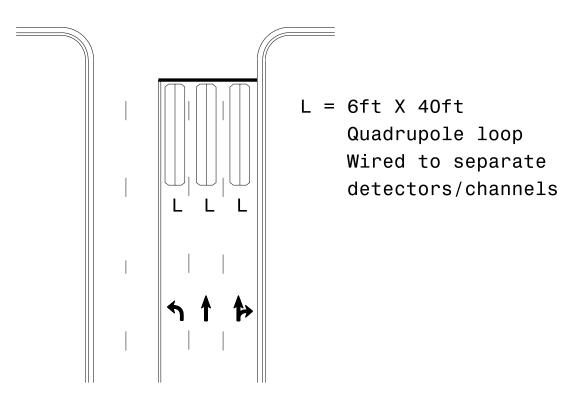


Wide Radius Turn



Channelized Turn

Side Street Detection



L = 6ft X 40ftQuadrupole loop Wired to separate Locate loop slightly behind leading edge of stop line —— Inductive Loop

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

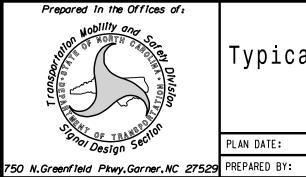
Recommended Number of Turns

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

Wileli Wilea 36	paracery,
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