

→ □ L2

Speed Limit	D
mph	ft
40	250
45	300
50	355

55

 $L = 6ft \times 6ft$ 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

 $L2 = 6ft \times 6ft$ Wired in series

L1 = 6ft X 6ft

Wired in series

− D2 ---

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

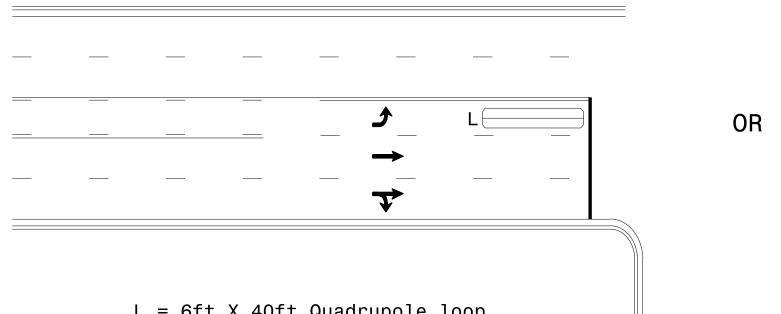
Wired separately

etc

Volume Density Operation

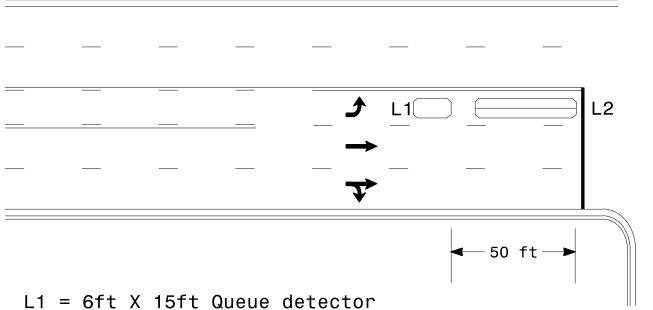
420

Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection



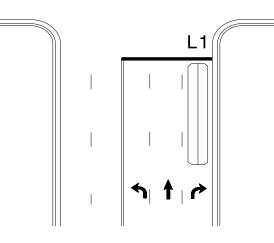
L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

"Stretch" Operation

↑ ↑ **→**

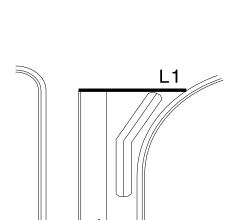
Shared Lane/ Wide Radius Turn



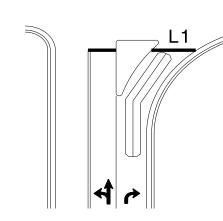
Standard Turn

SCALE

N/A



Wide Radius Turn

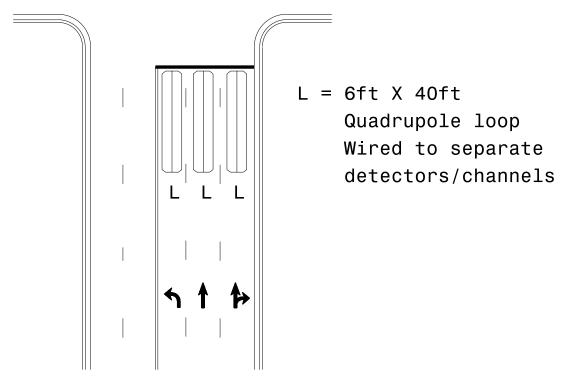


PROJECT REFERENCE NO.

2020CPT.04.05.10511. SIG-1

Channelized Turn

Side Street Detection



Quadrupole 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

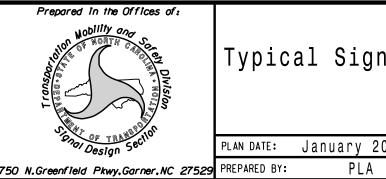
Recommended Number of Turns

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

Ton wir od oopar acory) i	
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: PLA REVIEWED BY: REVISIONS INIT. DATE

PL Alexander