

50

Volume Density Operation

170, and 2070L Controllers

45 300 90

355

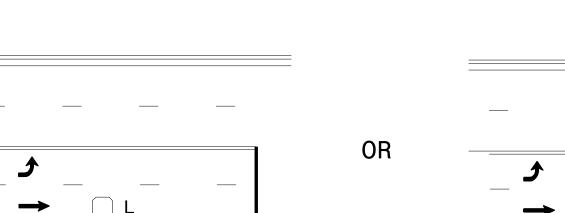
"Stretch" Operation

Wired in series

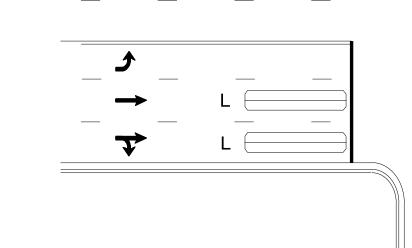
100

110

Low Speed Detection (≤35 mph)



**←** 70 ft →



Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

Wired separately

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

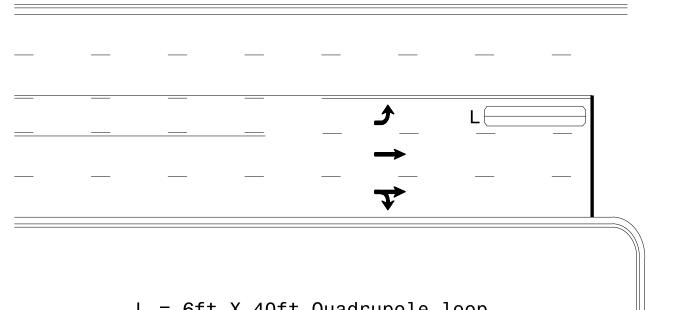
L = 6ft X 40ftQuadrupole loop, wired separately

PROJECT REFERENCE NO.

40.1.4

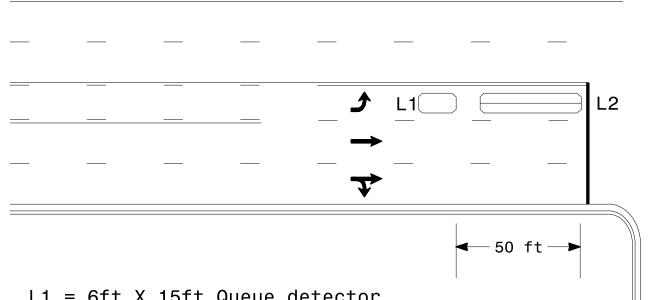
SIG-1

### Left Turn Lane Detection



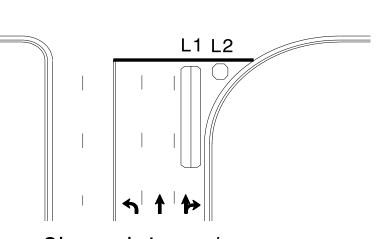
L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

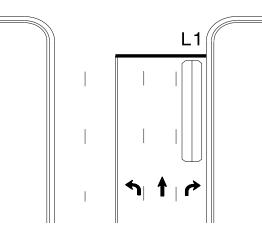


L1 = 6ft X 15ft Queue detector L2 = 6ft X 40ft Quadrupole loop

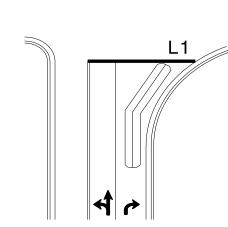
Queue Loop Detection



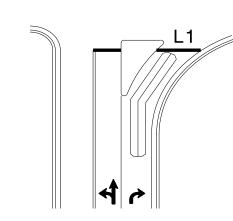
Shared Lane/ Wide Radius Turn



Standard Turn



Wide Radius Turn

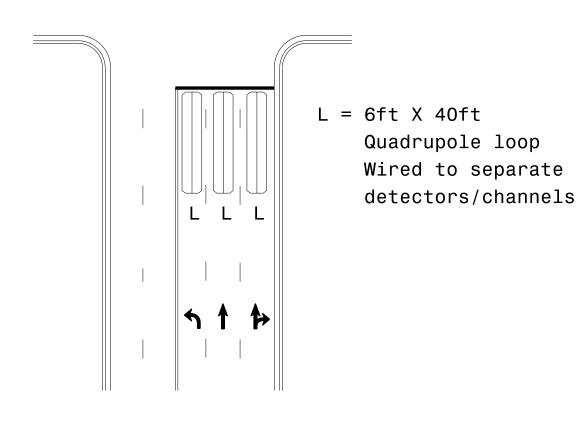


Channelized Turn

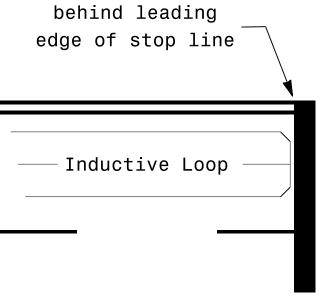
## Side Street Detection

420

55



Locate loop slightly behind leading edge of stop line



# 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 wired coparacory,	
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: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: PLA REVIEWED BY: REVISIONS

INIT. DATE PL Alexander