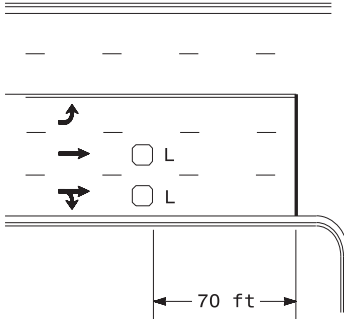
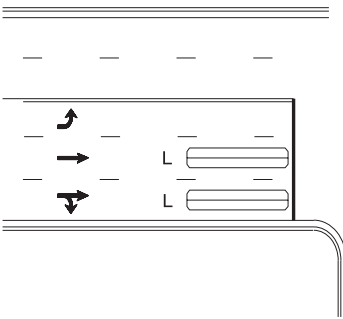


Low Speed Detection (≤ 35 mph)



OR



L = 6ft X 6ft
Wired separately

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

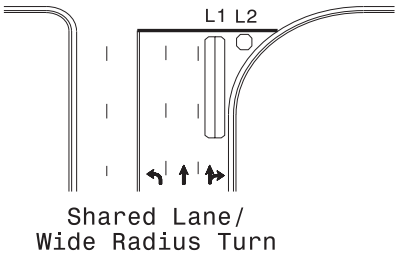
L = 6ft X 6ft
Wired in series

L = 6ft X 40ft
Quadrupole loop, wired separately

Volume Density Operation

"Stretch" Operation

Right Turn Lane Detection



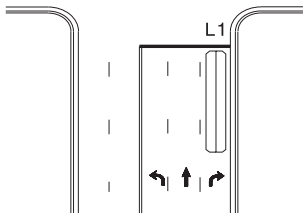
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately

L = 6ft X 40ft Quadrupole loop

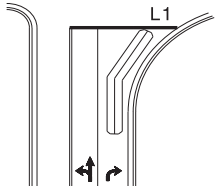
L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

Presence Loop Detection

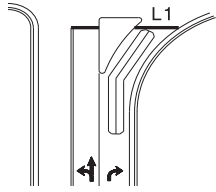
Queue Loop Detection



Standard Turn

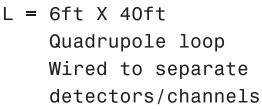


Wide Radius Turn



Channelized Turn

Presence Loop Placement at Stop Lines



Locate loop slightly
behind leading
edge of stop line

Inductive Loop

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

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

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



750 N.Greenfield Pkwy,Garner,NC 27529

SCALE

N / A

Typical Signal Loop Locations

PLAN DATE: September 2020	REVIEWED BY: JPG	
PREPARED BY: PLA	REVIEWED BY:	
REVISIONS	INIT.	DATE
.....		
.....		
.....		
.....		

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
029904
ENGINEER
JASON P. GALLOWAY

Not to be signed by
Jason P. Galloway 9/8/2
— 029904 / 02990433 DAY

SIG. INVENTORY NO.