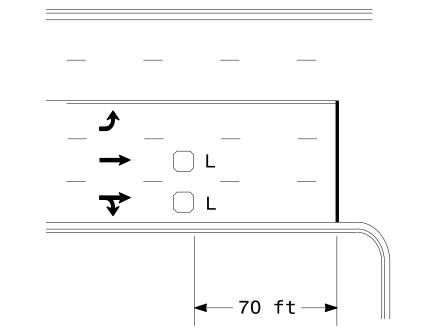
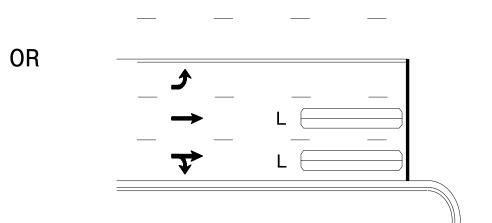


Low Speed Detection (<35 mph)





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

L = 6ft X 40ftQuadrupole loop, wired separately

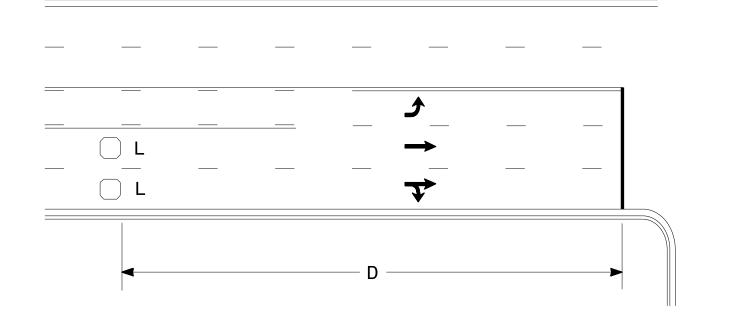
Right Turn Lane Detection

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

L1 = 6ft X 40ft Quadrupole loop

Wired separately

High Speed Detection (≥40 mph)



00			
OR	 		
	L1		
	L1		
	-		

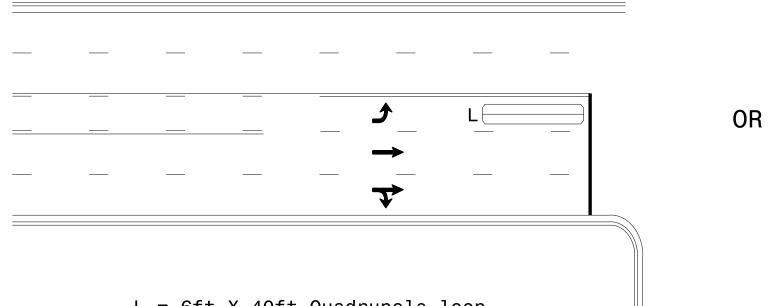
eed Limit	D -	L = 6ft X 6ft
mph	ft	Wired in series for TS1
40	250	Controllers
45	300	Wired separately for TS2,
50	355	170, and 2070L Control
55	420	, , , , , , , , , , , , , , , , , , , ,

Volume Density Operation

D1	D2
ft	ft
250	80
300	90
355	100
420	110
	ft 250 300 355

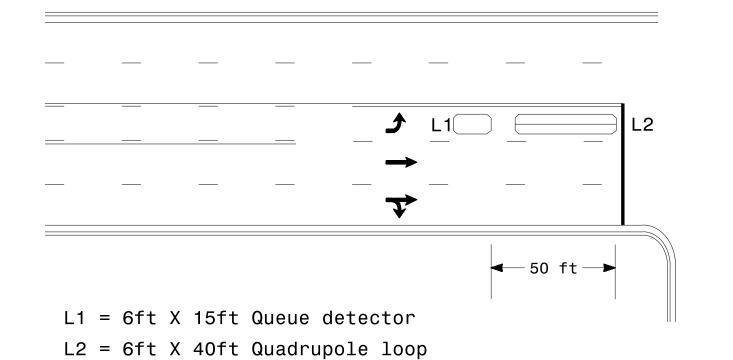
"Stretch" Operation

Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection



− D2 ----

L1 = 6ft X 6ft

L2 = 6ft X 6ft

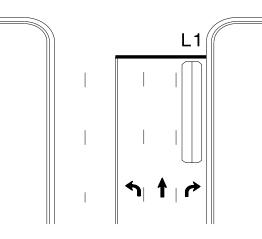
Wired in series

Wired in series

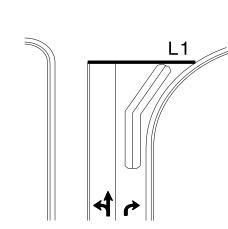
Queue Loop Detection

↑ ↑ **→**

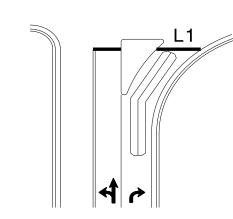
Shared Lane/ Wide Radius Turn



Standard Turn

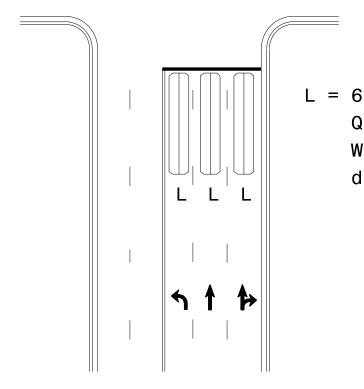


Wide Radius Turn



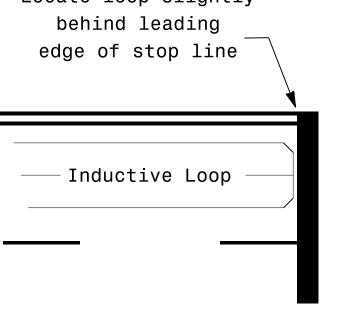
Channelized Turn

Side Street Detection



L = 6ft X 40ftQuadrupole loop Wired to separate detectors/channels

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):

Ten wined ee	paracory, 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



SCALE

N/A

Typical Signal Loop Locations

PLAN DATE: January 2015 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: REVIEWED BY: PLA

REVISIONS INIT. DATE

PL Alexander