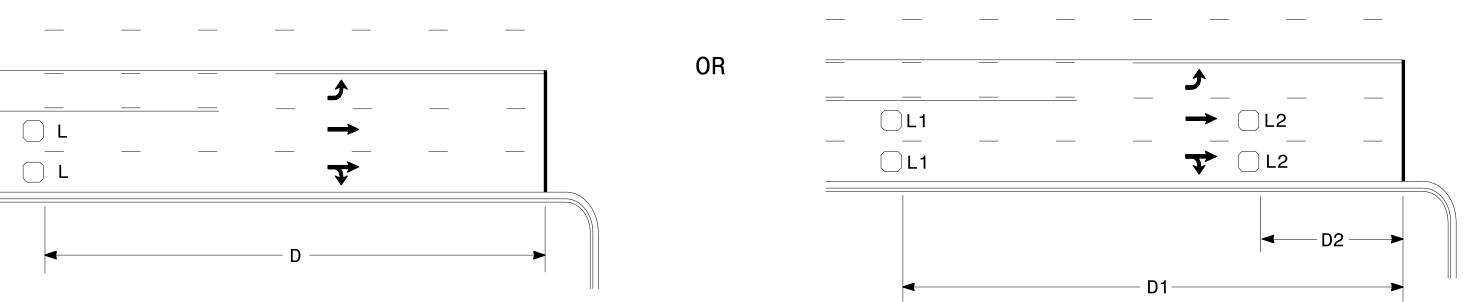


L1 = 6ft X 6ft

 $L2 = 6ft \times 6ft$

Wired in series

Wired in series

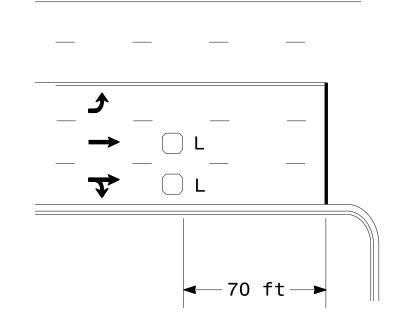


Speed Limit mph	D ft	L = 6ft X 6ft Wired in series for TS1
40	250	Controllers
45	300	Wired separately for TS2,
50	355	170, and 2070L Controllers
55	420	

Volume Density Operation

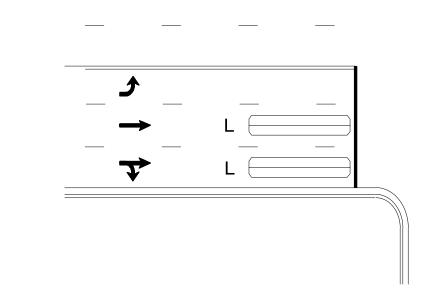
Speed Limit	D1	D2
mph	ft	ft
40	250	80
45	300	90
50	355	100
55	420	110

"Stretch" Operation



OR

L = 6ft X 6ft
Wired in series



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

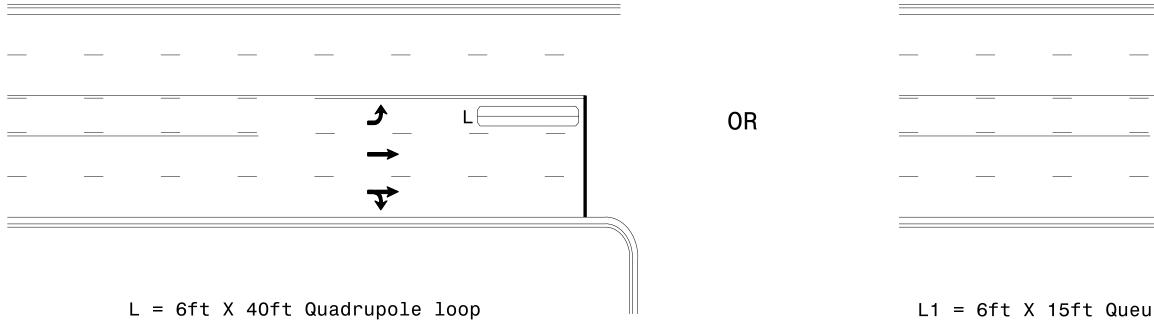
Right Turn Lane Detection

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

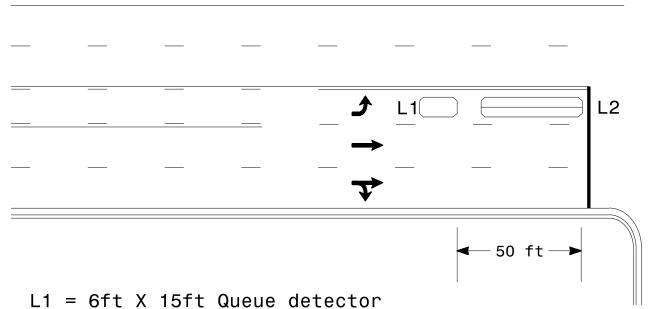
L1 = 6ft X 40ft Quadrupole loop

Wired separately

Left Turn Lane Detection

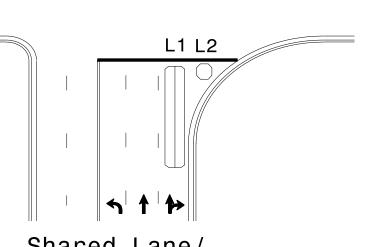


Presence Loop Detection

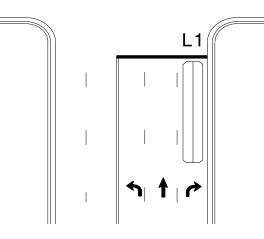


Queue Loop Detection

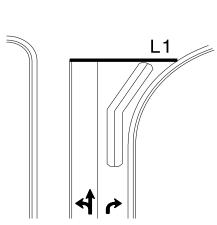
L2 = 6ft X 40ft Quadrupole loop



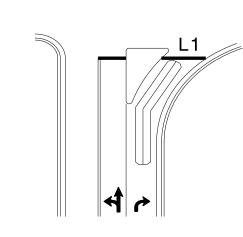
Shared Lane/ Wide Radius Turn



Standard Turn

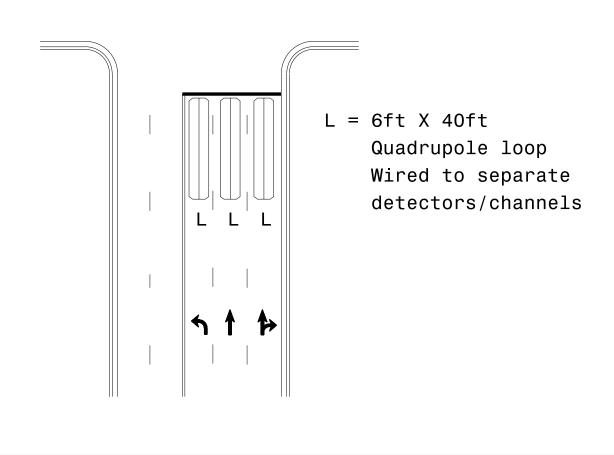


Wide Radius Turn

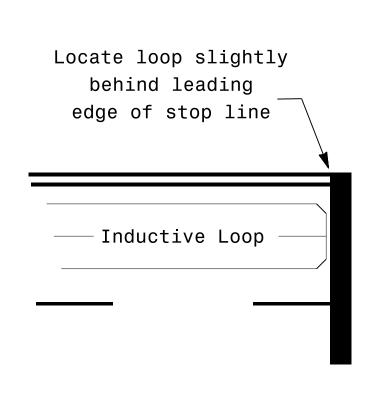


Channelized Turn

Side Street Detection



Presence Loop Placement at Stop Lines



Note:

Loop may be located in advance of stop line under any of the following conditions:

- 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):

when wired sep	our accity, 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: JPG

PREPARED BY: PLA REVIEWED BY:

REVISIONS INIT. DATE

S:*ITS&SU*ITS Signals*Signalex*Sig