

Speed Limit	D
mph	ft
40	250
45	300
50	355
55	420

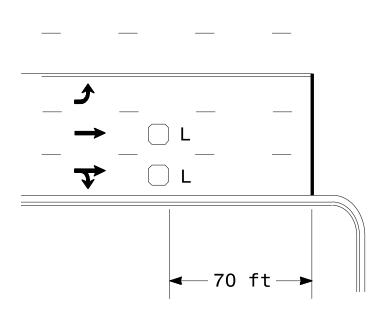
 $L = 6ft \times 6ft$ Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers Speed Limit ft 250 80 45 300 90 50 355 100 55 110

Wired in series

L1 = 6ft X 6ft

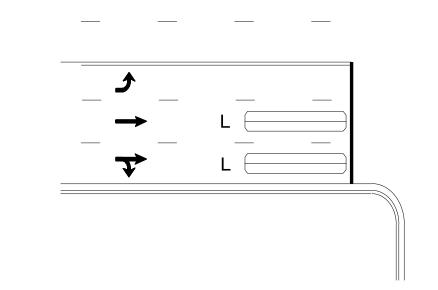
 $L2 = 6ft \times 6ft$ 

Wired in series



OR

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



L = 6ft X 40ftQuadrupole loop, wired separately

Right Turn Lane Detection

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

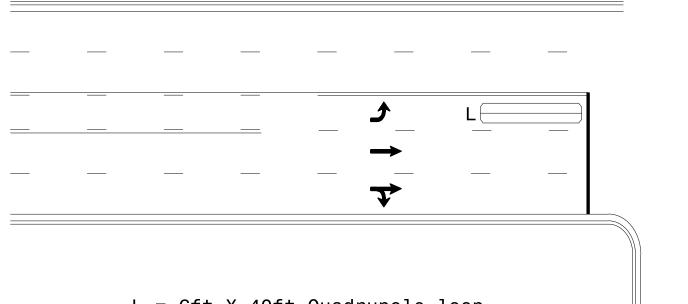
L1 = 6ft X 40ft Quadrupole loop

Wired separately

Volume	Density	Operation

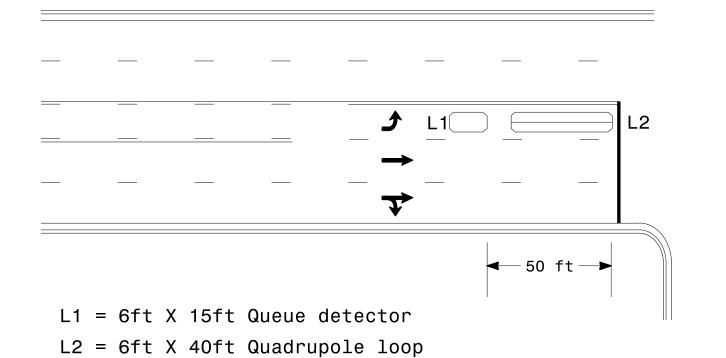
"Stretch" Operation

## Left Turn Lane Detection

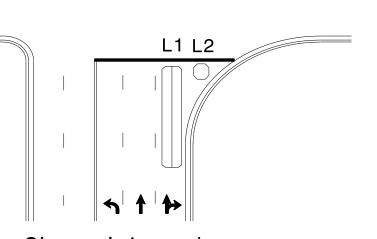


L = 6ft X 40ft Quadrupole loop

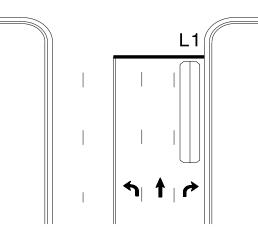
Presence Loop Detection



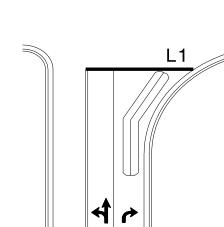
Queue Loop Detection



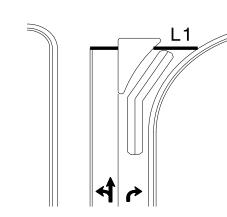
Shared Lane/ Wide Radius Turn



Standard Turn

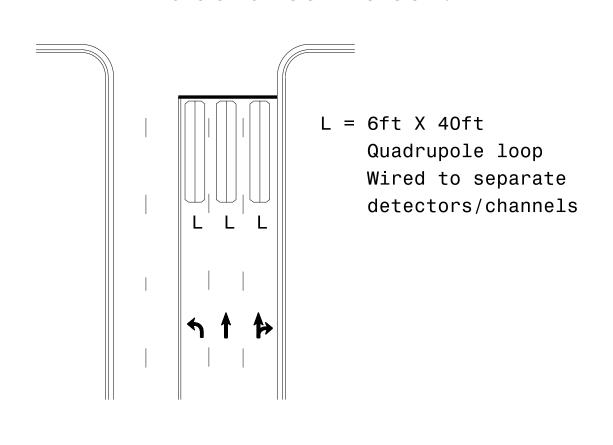


Wide Radius Turn

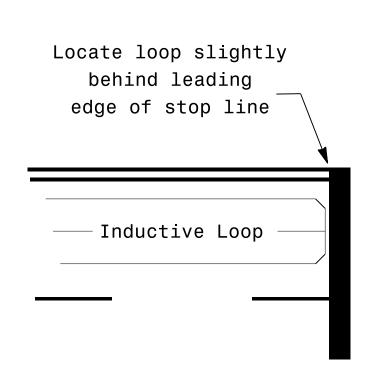


Channelized Turn

## 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:

- 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):

HEH WILEG	separatery).
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: REVIEWED BY: PLA REVISIONS INIT. DATE

PL Alexander

SCALE N/A