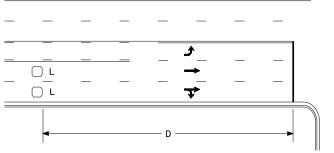


OR



L = 6ft X 6ft			
Wired in series for TS1			
Controllers			
Wired separately for TS2,			
170, and 2070L Controllers			

420 Volume Density Operation

250

300

355

▼ □ L2 □L1 — D2 -

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

"Stretch" Operation

 $L1 = 6ft \times 6ft$

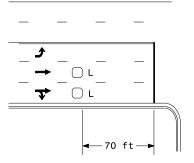
L2 = 6ft X 6ft

Wired in series

Wired in series

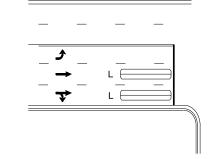
PROJECT NO. SHEET NO. 2024CPT.13.14.20811 27

Low Speed Detection '(≤35 mph)



 $L = 6ft \times 6ft$

Wired in series



L = 6ft X 40ftQuadrupole loop, wired separately

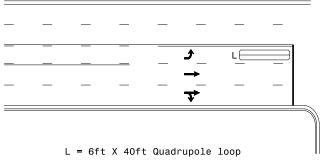
Right Turn Lane Detection

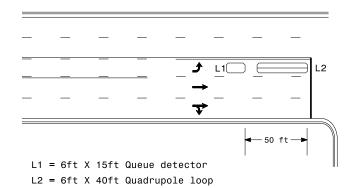
L1 = 6ft X 40ft Quadrupole loop L2 = 6ft X 6ft [Minimum] Presence loop

Wired separately

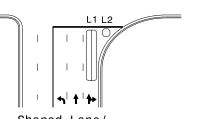
Left Turn Lane Detection

OR

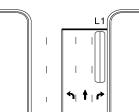




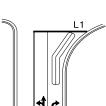
Queue Loop Detection



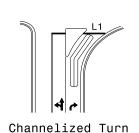
Shared Lane/ Wide Radius Turn

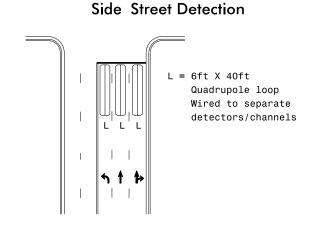


Standard Turn

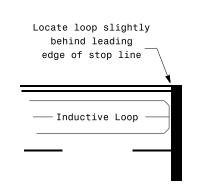


Wide Radius Turn





Presence Loop Placement at Stop Lines



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
- 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):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375 - 525	5
> E0E	

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: PREPARED BY: REVIEWED BY:

N/ASIG. INVENTORY NO.