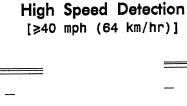
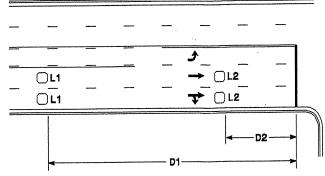


ft (m)

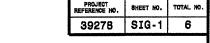


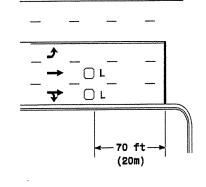


Speed Limit		D1 .		D2	
	(km/hr)	ft	(m)	ft	(m)
40	(64)	250	(75)	80	(25)
45	(72)	300	(90)	90	(27)
50	(80)	355	(110)	100	(30)
55	(88)	420	(130)	110	(35)

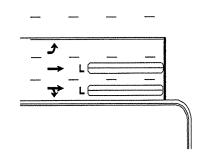
"Stretch" Operation

Low Speed Detection [<35 mph (56 km/hr)]



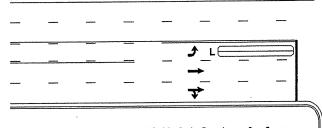


 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series



 $L = 6ft \times 60ft (1.8m \times 18.0m)$ Quadrupole loop, wired separately

Left Turn Lane Detection



 $L = 6ft \times 6ft (1.8m \times 1.8m)$

Controllers

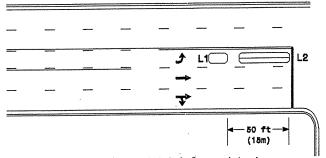
Wired in series for TS1

Wired separately for TS2,

170, and 2070L Controllers

 $L = 6ft \times 60ft (1.8m \times 18.0m)$ Quadrupole loop or, with limited space: 6ft X 50ft (1.8m X 15.0m) Quadrupole loop 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

Presence Loop Detection



 $L1 = 6ft \times 15ft (1.8m \times 4.6m)$ Queue detector $L2 = 6ft \times 40ft (1.8m \times 12.0m)$ Quadrupole loop

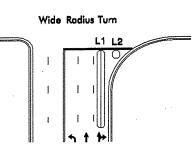
Queue Loop Detection

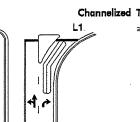
Standard Turn

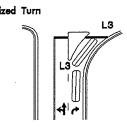
Right Turn Lane Detection

L1 = 6ft X 60ft (1.8m X 18.0m) Quadrupole loop L2 = 8ft X 8ft (1.8m X 1.8m) [Minimum] Presence loop Wired separately

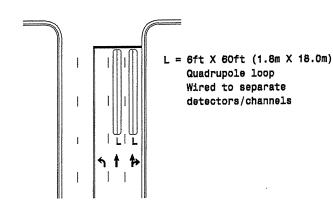
L3 = 6ft X 30ft (1.8m X 9.0m) Quadrupole loop Wired in series



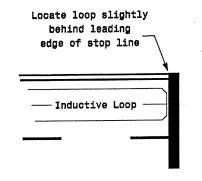




Side Street Detection



Presence Loop Placement at Stop Lines



Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permitted or exclusive/permitted left turn.

L1 = 6ft X 6ft

L2 = 6ft X 6ft

(1.8m X 1.8m)

(1.8m X 1.8m)

Wired in series

Wired in series

Recommended Number of Turns

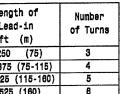
Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

TOOD (MTI en sei	par acory;
Length of Lead-in ft (m)	Number of Turns
< 250 (75)	3
250-375 (75-115)	4
375-525 (115-160)	5
> 525 (160)	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns

Lead-in > 150' (45 m), use 3 turns



Typical Loop Locations

Taken Sed	PLA
Geometries	PRE
122 N. McDowell St., Raleigh, NG 27603	
SCALE	A₫₫
None	

PLAN DATE:	Auguat 2001	REVIEWED BY:	
PREPARED BY:	P. L. Alexander	REVIEWED BY:	
	BEA1210NZ	INIT. DATE	
Add queue detector loop, reference to 2070L controllers pla 8/02			