

PROJECT NO.	SHEET NO.	TOTAL NO.		
R-5503 45459.3.1	4	4		

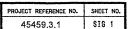
SUMMARY OF QUANTITIES

PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	ТҮР	FINAL SURFACE TESTING REQUIRED	LENGTH	WIDTH	MOBILIZATION	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (18-4)
NO		NO			NO		MI	FT	LS	SY	SY	TONS	TON	LF	LF
				FROM US 64 TO END CURB AND GUTTER AND											
R-5503	Martin	1	NC 171	TAPER	1	NO	0.24	40	1	6,641		616	37	1,000	200
				FROM END TAPER OF CURB AND GUTTER TO											
		2	NC 171	BEAUFORT COUNTY LINE	2	NO	12.6	25	*	203,500	7,194	18,129	1,088		
	1	<u> </u>	<u> </u>												
				GRAND TOTAL			12.84		1	210,141	7,194	18,745	1,125	1,000	200

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	8" X 90 M YELLOW THERMO	16" X 120 M WHITE	24" X 120 M WHITE	THERMO RXR 120 M	THERMO LT ARROW 90	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M
NO		NO					LS	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA
R-5503	Martin	1	NC 171	FROM US 64 TO END TAPER AND CURB AND GUTTER	0.24	40	1	550	4,104	40	100	100	130	4	3	3	3
		2	NC 171	FROM END TAPER OF CURB AND GUTTER TO BEAUFORT COUNTY LINE	12.6	25	*	134,150	72,871	400	280				11	6	
			GRAND TO	TAL	12.84		1	134,700	76,975 77,	440 415	380	100	130	4	14	9 26	3

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	LENGTH	WIDTH	4" YELLOW PAINT	4" WHITE PAINT	8" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG RXR	PAINT RT ARROW	PAINT LT ARROW	PAINT STR ARROW	YELLOW / YELLOW MARKERS	CRYSTAL & RED MARKERS
NO		NO					LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
				FROM US 64 TO END TAPER AND CURB AND													
R-5503	Martin	1	NC 171	GUTTER	0.24	40	4,104	590	100	100	130	4	3	3	3	40	3
		2	NC 171	FROM END TAPER OF CURB AND GUTTER TO BEAUFORT COUNTY LINE	12.6	25	72,871	134,550	280				6	11		954	20
	1				12.04		76,975	135,140	380	100	130	1 1	9	14	3	994	23
			GRAND TO	TAL	12.84		213	2,115	360	380 100	130	4 1		26		1	017





L1 = 6ft X 6ft

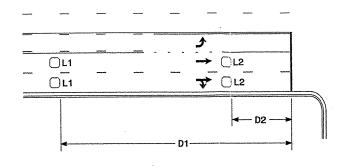
L2 = 6ft X 6ft

(1.8m X 1.8m)

(1.8m X 1.8m) Wired in series

Wired in series

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



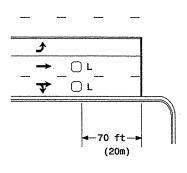
Speed Limit	D				
mph (km/hr)	ft (m)				
40 (64)	250 (75)				
45 (72)	300 (90)				
50 (80)	355 (110)				
55 (88)	420 (130)				

 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers

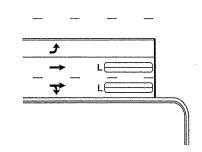
Volume Density Operation

Speed Limit	1	D1.	1	D2			
mph (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



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



L = 6ft X 40ft (1.8m X 12.0m)Quadrupole loop, wired separately

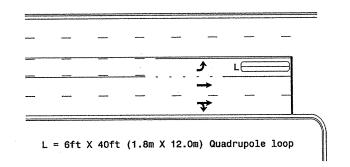
Left Turn Lane Detection

OR

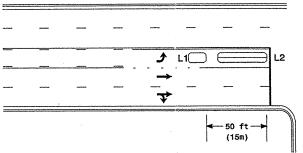
High Speed Detection

[>40 mph (64 km/hr)]

OR



Presence Loop Detection



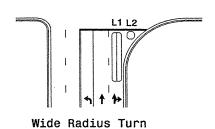
L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

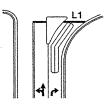
Queue Loop Detection

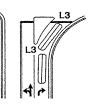
Standard Turn

Right Turn Lane Detection $L1 = 6ft \times 40ft (1.8m \times 12.0m)$ Quadrupole loop L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop Wired separately

L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop Wired in series

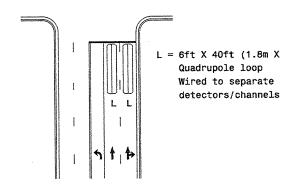






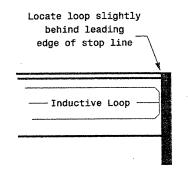
Channelized Turn

Side Street Detection



= 6ft X 40ft (1.8m X 12.0m)

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 permissive or protected/permissive left turn.

Recommended Number of Turns

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

p (p							
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

PLAN DATE: June 2006 REVIEWED BY: PREPARED BY: P L Alexander | REVIEWED BY: INIT. DATE