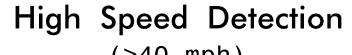
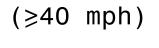
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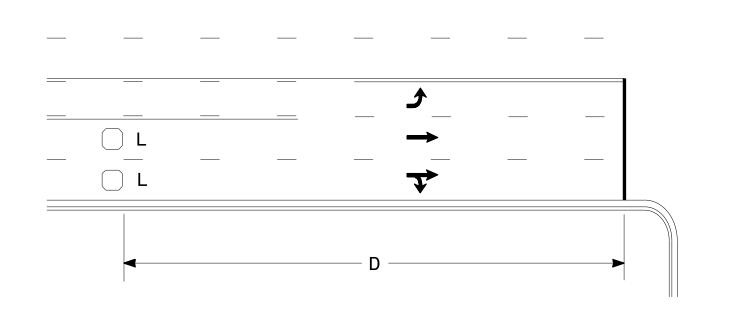
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OR

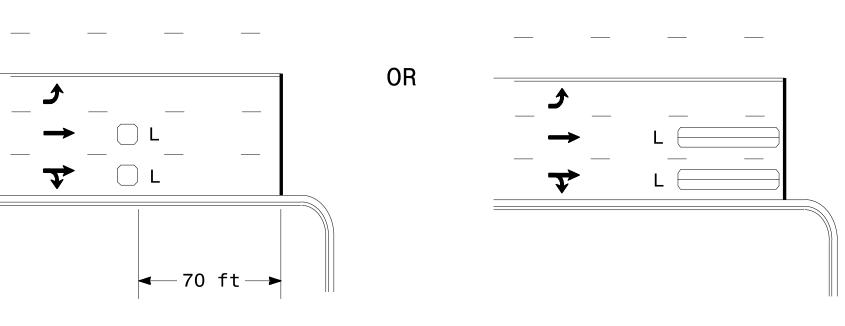


 $L = 6ft \times 6ft$

 •
 — — — — — — — — — — — — — — — — — — —
← D2 — ►

	 J	
L1	→ □L2	
L1		
	4	D2 >
-	— D1—	-

	-	
L1 =	6ft X Wired	6ft in series



L2 = 6ft X 6ftWired in series

L = 6ft X 40ftQuadrupole loop, wired separately

Speed Limit ft 250 40 300 45 355 50 420 55

Wired in series for TS1 Controllers Wired separately for TS2, 170, and 2070L Controllers

45 300 90 50 355 100 110

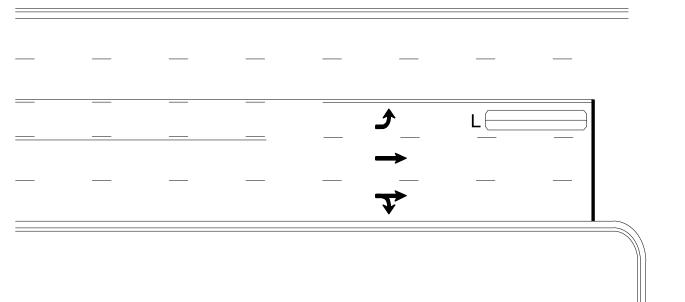
250

Speed Limit

"Stretch" Operation

80

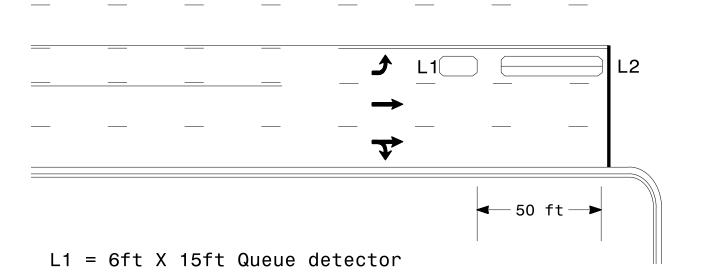
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

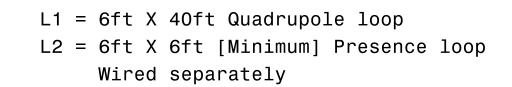
Volume Density Operation

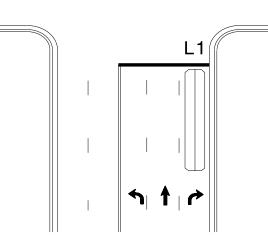


L2 = 6ft X 40ft Quadrupole loop

Queue Loop Detection

Right Turn Lane Detection





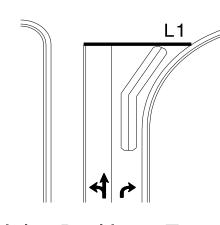
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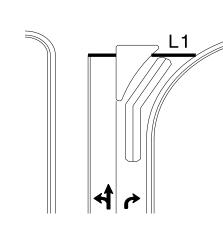
Shared Lane/

Wide Radius Turn

 $L = 6ft \times 6ft$

Wired in series



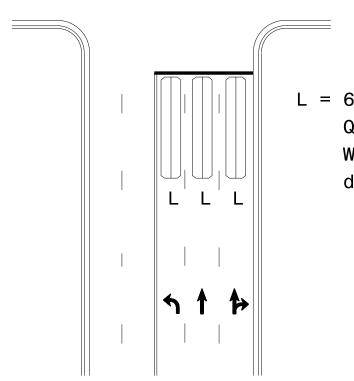


Standard Turn

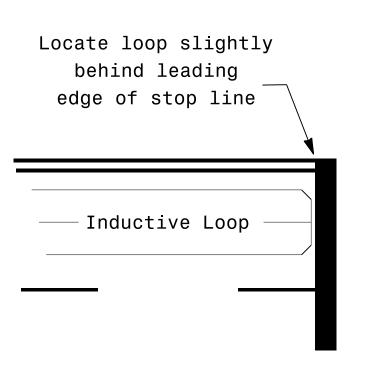
Wide Radius Turn

Channelized Turn

Side Street Detection



L = 6ft X 40ftQuadrupole loop Wired to separate detectors/channels



Note:

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 roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

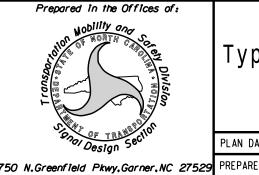
Recommended Number of Turns

Single 6' X 6' loop (when wired separately):

Ten wined ee	paracory, 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

ection						
Sec.r.	PLAN DATE:	January 2015	REVIEWED BY:	JPG		
arner.NC 27529	PREPARED BY:	PLA	REVIEWED BY:			
		REVISIONS		INIT.	DATE	Do:
						49
	i					B47

L'Alexander SIG. INVENTORY NO.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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SHEET 1 OF 1

DI DI STATE OF
NORTH CAROLINA
I. OF TRANSPORTATION
VISION OF HIGHWAYS
RALEIGH, N.C.

Ш CUT ENGL H HS DUC

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TANDARD Ш DRAW ING EC FOR 9

(FOR 9 .ING) 0 **P** NOTES

-OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.

-MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.

-WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES.

-LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS.

-USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT.

-CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING.

-REFER TO STANDARD DRAWING 1725.01 SHEETS 2 AND 3 FOR ADDITIONAL REQUIREMENTS.

SAW SLOT DEPTH CHART ASSUMING 2" MILLING DEPTH

DEPTH	MAX NO. OF WIRE LAYERS				
(IN)	2	3	4	5	6
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0

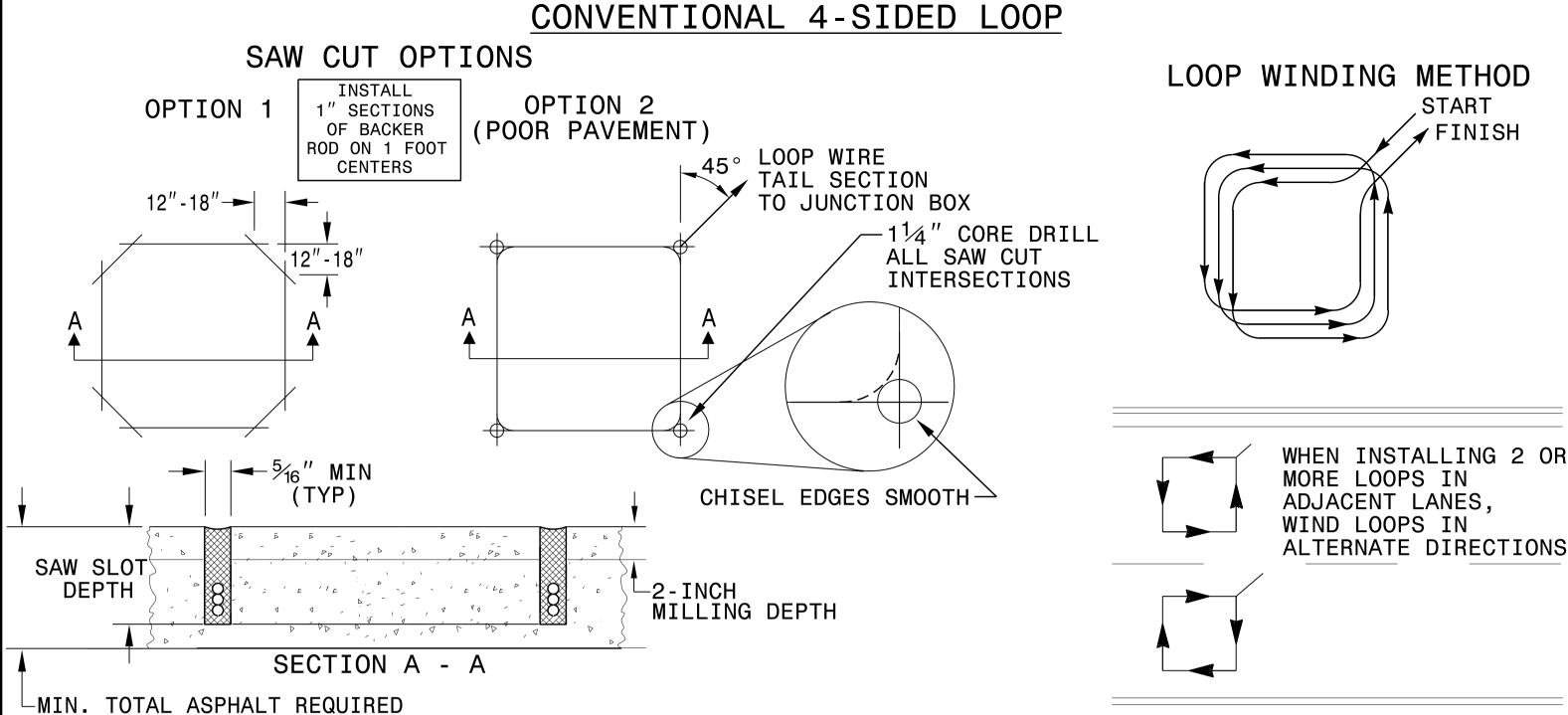
LOOP WIRE TWISTING METHOD

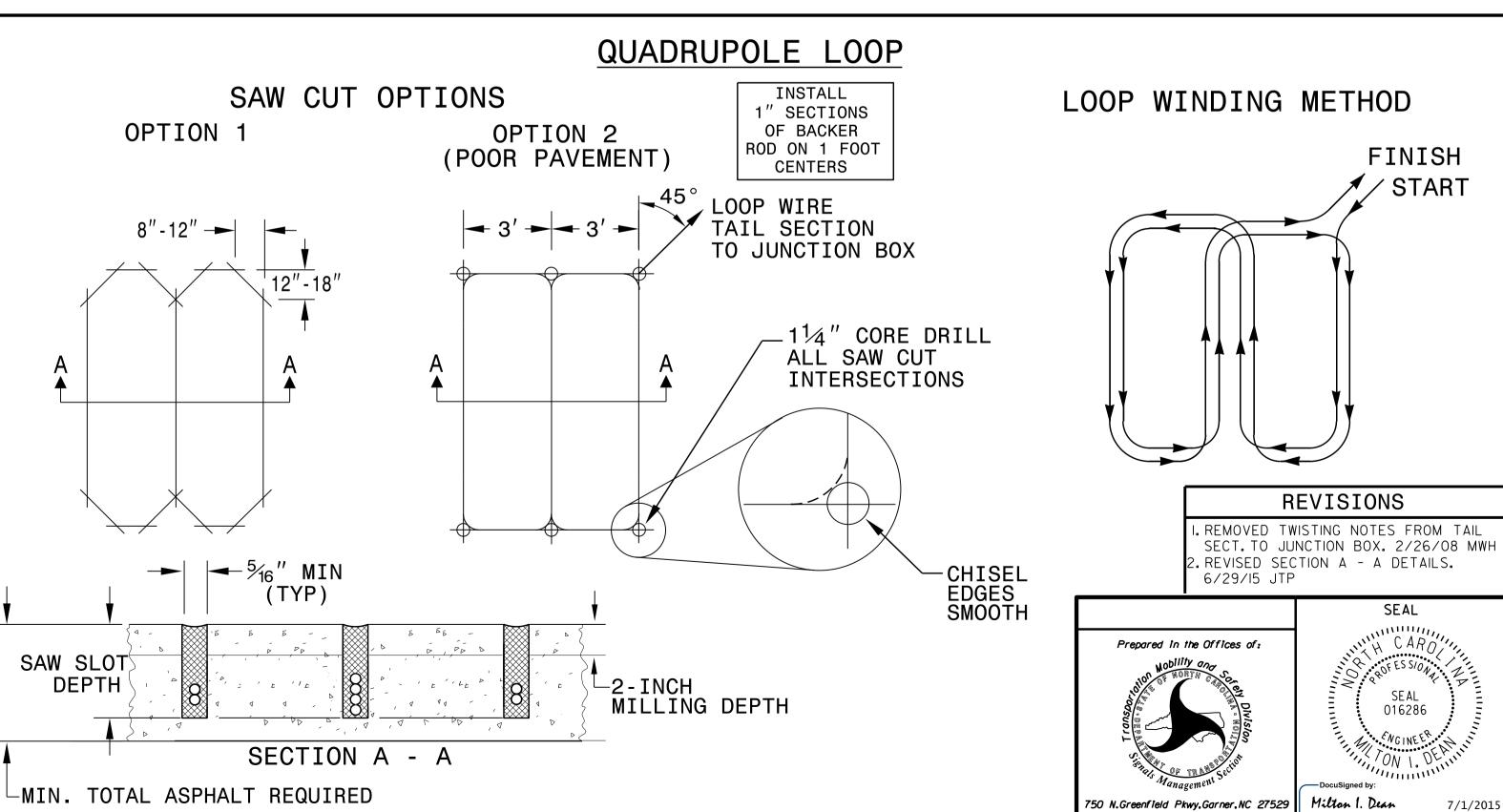
INCORRECT WAY TO TWIST WIRE



CORRECT WAY TO TWIST WIRE







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SHEET 1 OF 1