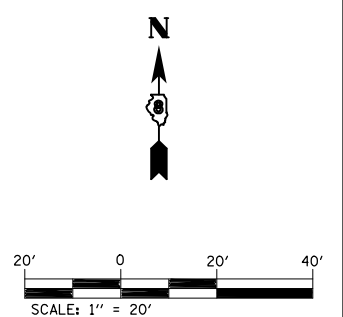


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 111 AND PONTOON RD.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1.NB CCO A	6	6 X 6	6	379.6	3.2
2.NB CCO B	6	6 X 6	6	381.8	3.2
3.NB LT CD	1	6 X 50-Q	3-6-3	833.5	2.7
4.WB LT-THRU CD	8	6 X 50-Q	3-6-3	NA	NA
5.SB CCO A	2	6 X 6	6	342.4	2.4
6.SB CCO B	2	6 X 6	6	344.6	2.4
7.SB LT CD	5	6 X 50-Q	3-6-3	811.7	2.2
8.EB LT CD	4	6 X 50-Q	3-6-3	NA	NA
9.EB THRU CD	4	6 X 50-Q	3-6-3	NA	NA
10.EB RT CD	4	6 X 45-Q	3-6-3	NA	NA

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.
Q=QUADRAPOLE



FILE NAME =	USER NAME = milleraj	DESIGNED -	REVISED -
et:\pw\work\pmdot\milleraj\02260814\vd876e96-sht-plan.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/16/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL 111 & PONTOON RD.**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(6-3, 6-1)RS-3	MADISON	66	63
CONTRACT NO. 76E96				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				