

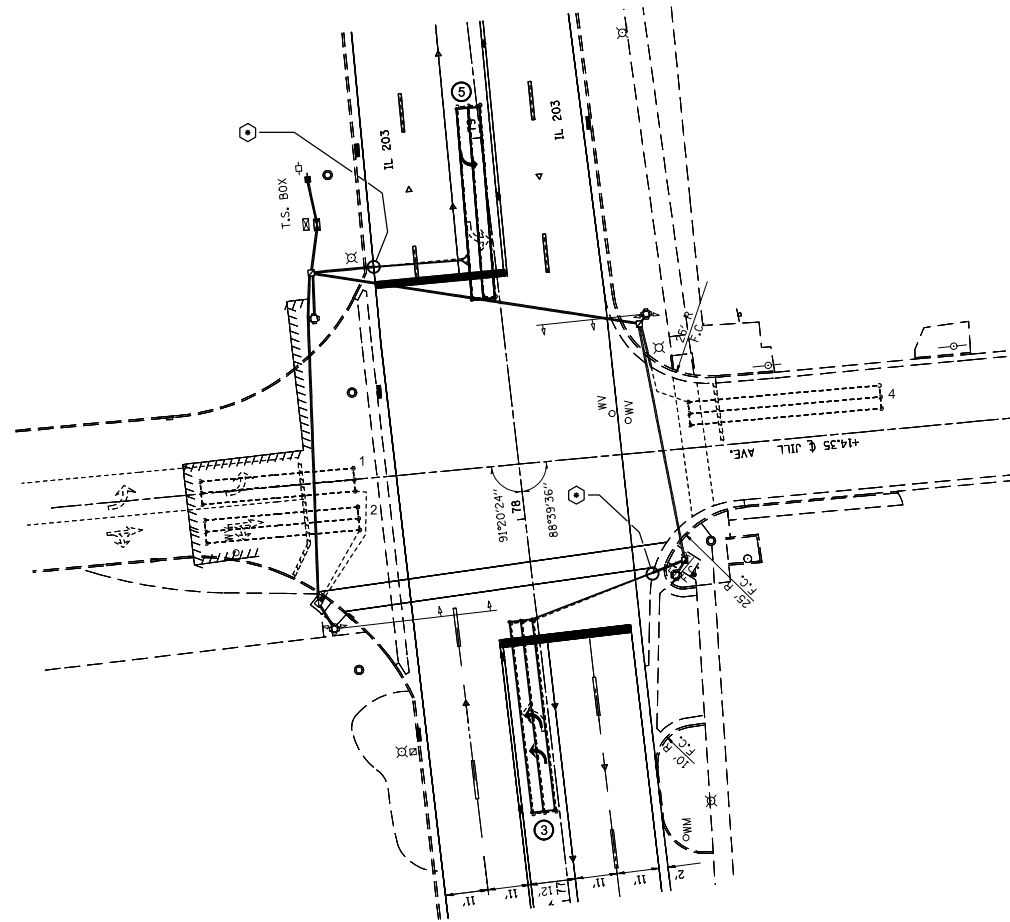
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 203 & JILL AVE.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	3	6 X 40-Q	3-6-3	670.1	2.1
2. EB THRU CD	3	6 X 40-Q	3-6-3	667.0	2.0
3. NB THRU- LT CD	1 & 6	6 X 50-Q	3-6-3	836.6	2.7
4. WB THRU- LT CD	4	6 X 50-Q	3-6-3	818.3	2.3
5. SB THRU- LT CD	2 & 5	6 X 50-Q	3-6-3	801.4	1.9

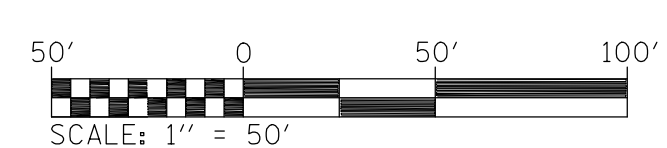
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

⊕ =SEE DETAIL A



IL 203 & JILL AVE.



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN 2 OF 5			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\idot\prestonme\d0332003\d076g24-sht-TS.dgn		DRAWN -	REVISED -		594	(X-3,X-2)RS-1	MADISON	52	47			
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 76G24							
PLOT DATE = 5/7/2014		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.					