

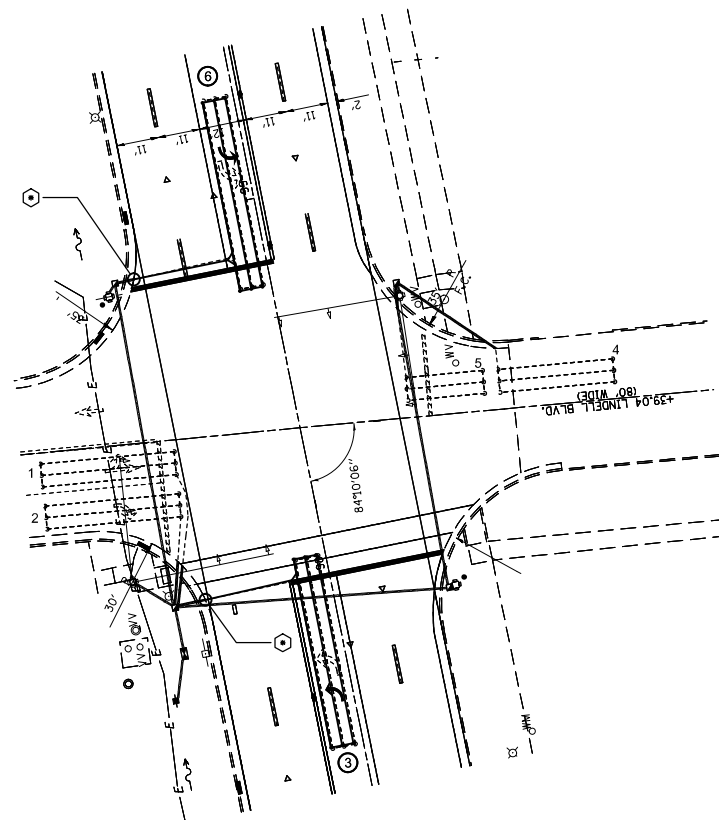
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 203 & LINDELL AVE.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	4	6 X 35-Q	3-6-3	573.5	1.4
2. EB THRU CD	4	6 X 35-Q	3-6-3	570.9	1.4
3. NB THRU CD	1 & 6	6 X 50-Q	3-6-3	797.7	1.9
4. EB THRU CD A	3	6 X 30-Q	3-6-3	534.4	2.1
5. EB THRU CD B	3	6 X 20-Q	3-6-3	381.8	1.7
6. SB THRU CD	2 & 5	6 X 50-Q	3-6-3	817.9	2.3

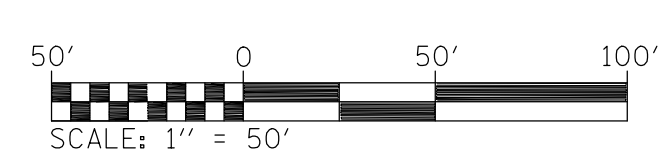
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

⊕ =SEE DETAIL A



IL 203 & LINDELL AVE.



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN 4 OF 5			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\prestonme\d0332003\d076g24-sht-TS.dgn		DRAWN -	REVISED -		594	(X-3,X-2)RS-1	MADISON	52	49			
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 76G24							
	PLOT DATE = 5/7/2014	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			