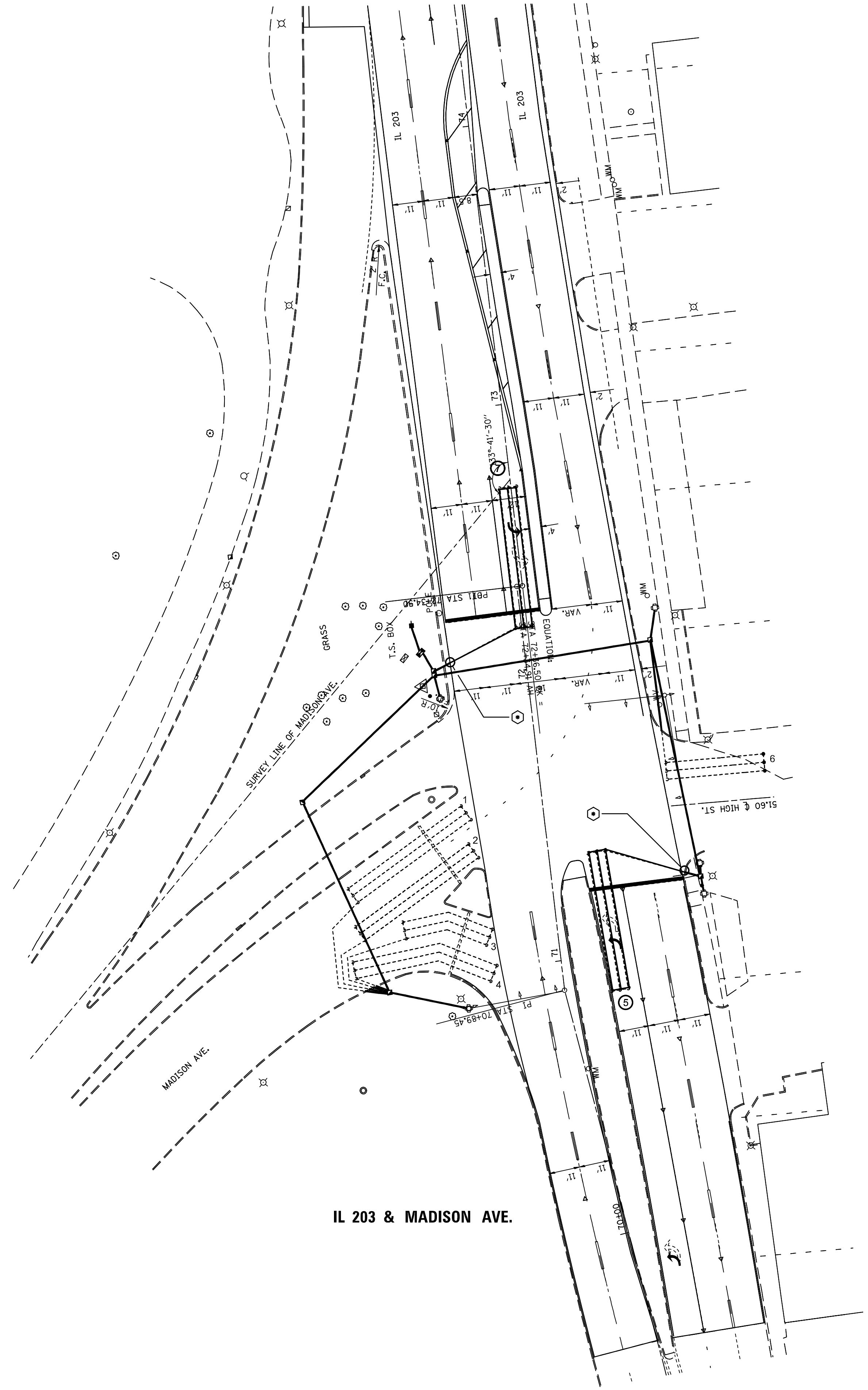
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 203 & MADISON AVE.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	4	6 X 50-Q	3-6-3	835.9	2.7
2. EB THRU CD	4	6 X 50-Q	3-6-3	1006.0	6.6
3. EB RT CD A	4	6 X 30-Q	3-6-3	534.2	2.1
4. EB RT CD B	4	6 X 50-Q	3-6-3	827.1	2.5
5. NB THRU & LT CD	1 & 6	6 X 50-Q	3-6-3	837.5	2.8
6. WB THRU CD	3	6 X 50-Q	3-6-3	819.4	2.4
7. SB THRU & LT CD	2 & 5	6 X 50-Q	3-6-3	798.8	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 & MADISON AVE.

SCALE: 1" = 50'

FILE NAME = c:\pw_work\pwidot\prestonme\d0332003\d876g24-sht-TS.dgn	USER NAME = prestonme	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/7/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
1 OF 5

SCALE: | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
594	(X-3,X-2)RS-1	MADISON	52	46

CONTRACT NO. 76G24

ILLINOIS | FED. AID PROJECT