

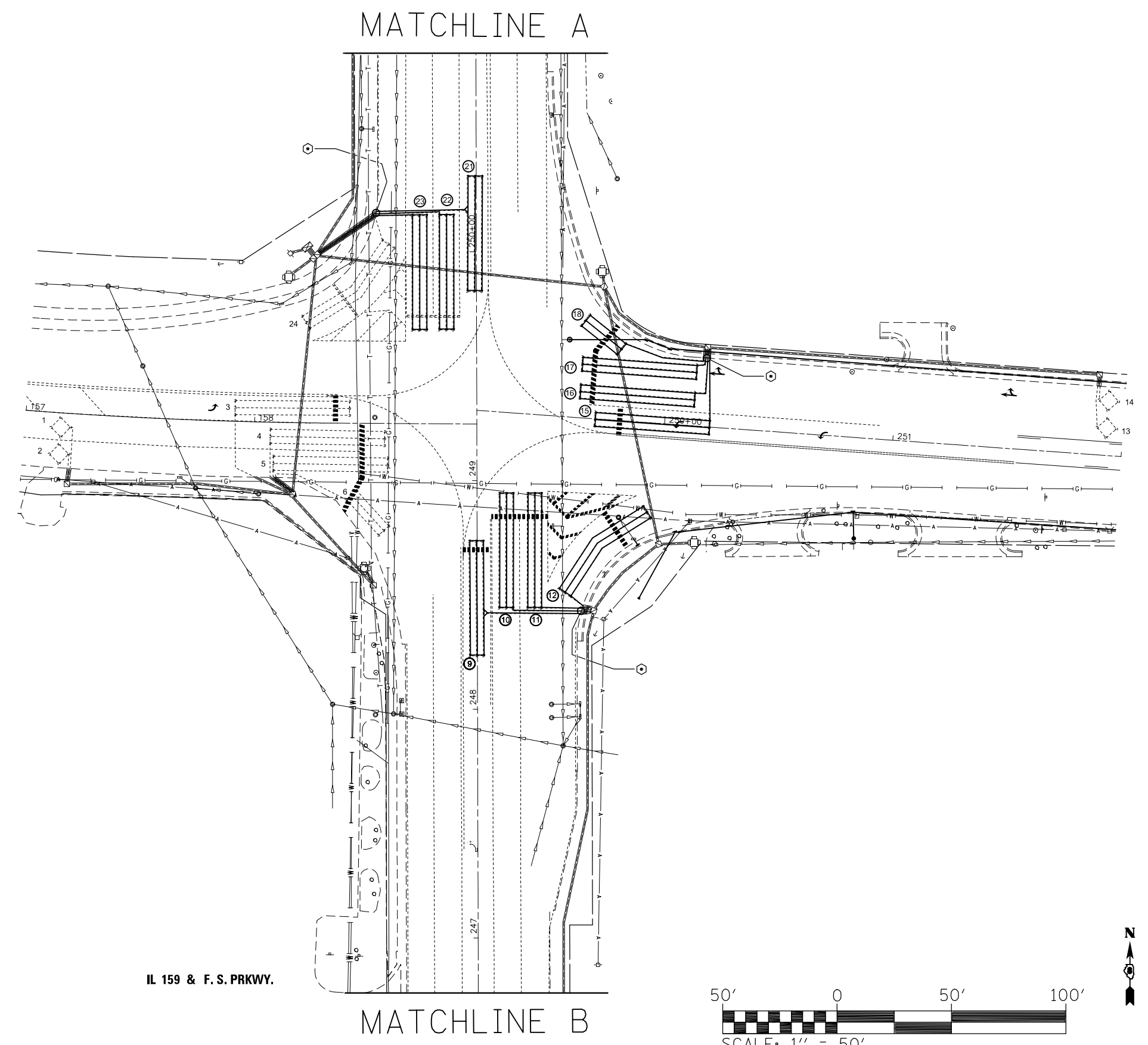
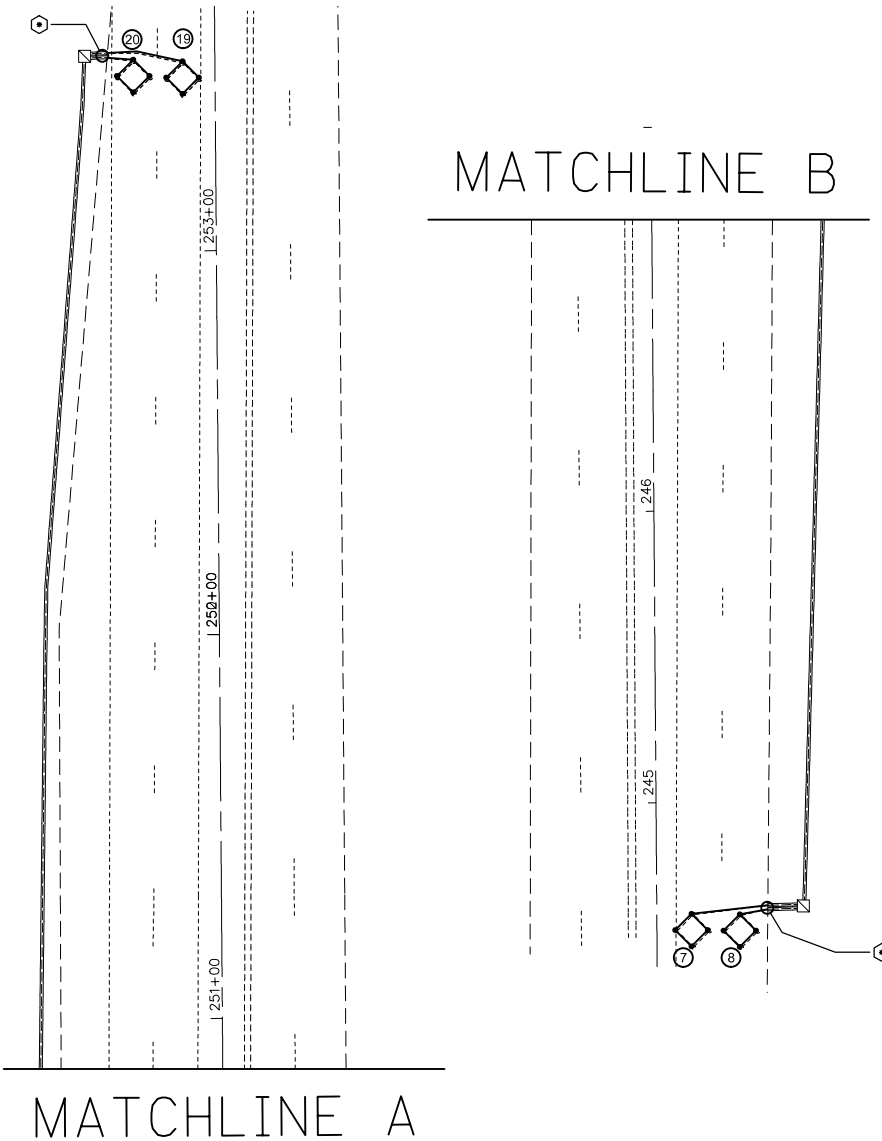
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 159 & F. S. PRKWY.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB CCO A	4	6 X 6	6	311.6	1.7
2. EB CCO B	4	6 X 6	6	308.8	1.6
3. EB LT CD	7	6 X 50-Q	3-6-3	825.4	2.5
4. EB THRU CD A	4	6 X 50-Q	3-6-3	820.3	2.4
5. EB THRU CD B	4	6 X 50-Q	3-6-3	817.7	2.3
6. EB RT CD	4	6 X 50-Q	3-6-3	824.7	2.5
7. NB CCO A	2	6 X 6	6	371.0	3.0
8. NB CCO B	2	6 X 6	6	368.2	2.9
9. NB LT CD	5	6 X 50-Q	3-6-3	866.5	3.4
10. NB THRU CD A	2	6 X 50-Q	3-6-3	863.4	3.4
11. NB THRU CD B	2	6 X 50-Q	3-6-3	860.4	3.3
12. NB RT CD	2	6 X 50-Q	3-6-3	857.9	3.2
13. WB CCO A	8	6 X 6	6	345.1	2.4
14. WB CCO B	8	6 X 6	6	342.1	2.4
15. WB LT CD	3	6 X 50-Q	3-6-3	839.5	2.8
16. WB THRU CD A	8	6 X 50-Q	3-6-3	837.9	2.8
17. WB THRU CD B	8	6 X 50-Q	3-6-3	834.8	2.7
18. WB RT CD	8	6 X 20-Q	3-6-3	391.7	2.0
19. SB CCO A	6	6 X 6	6	324.2	1.9
20. SB CCO B	6	6 X 6	6	321.3	1.9
21. SB LT CD	1	6 X 50-Q	3-6-3	807.1	2.1
22. SB THRU CD A	6	6 X 50-Q	3-6-3	803.8	2.0
23. SB THRU CD B	6	6 X 50-Q	3-6-3	800.7	1.9
24. SB RT CD	6	6 X 50-Q	3-6-3	799.4	1.9

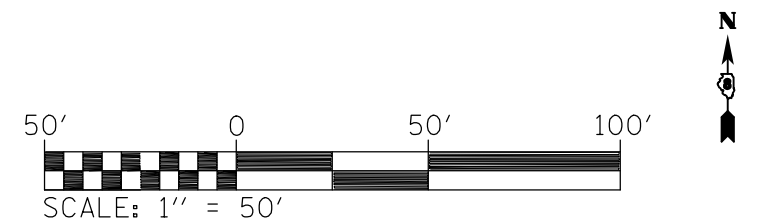
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

⊙=SEE DETAIL A



IL 159 & F. S. PRKWY.



FILE NAME =	USER NAME = prestonne	DESIGNED -	REVISED -
et:\pw\work\p\idot\prestonne\d0344817\d876g95-sh-t-TS.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
IL 159 & F. S. PRKWY.

SCALE: SHEET NO. 9 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(130-1, 130-2)RS-2	ST. CLAIR	36	35**
CONTRACT NO. 76G55				
ILLINOIS FED. AID PROJECT				