

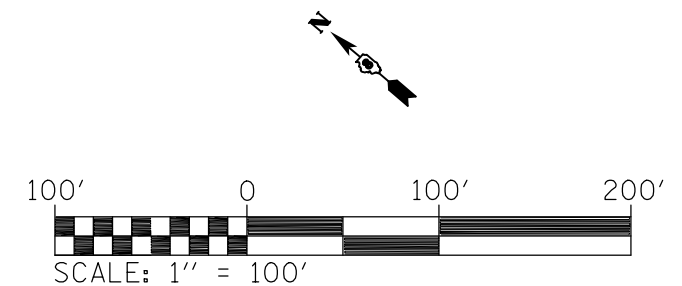
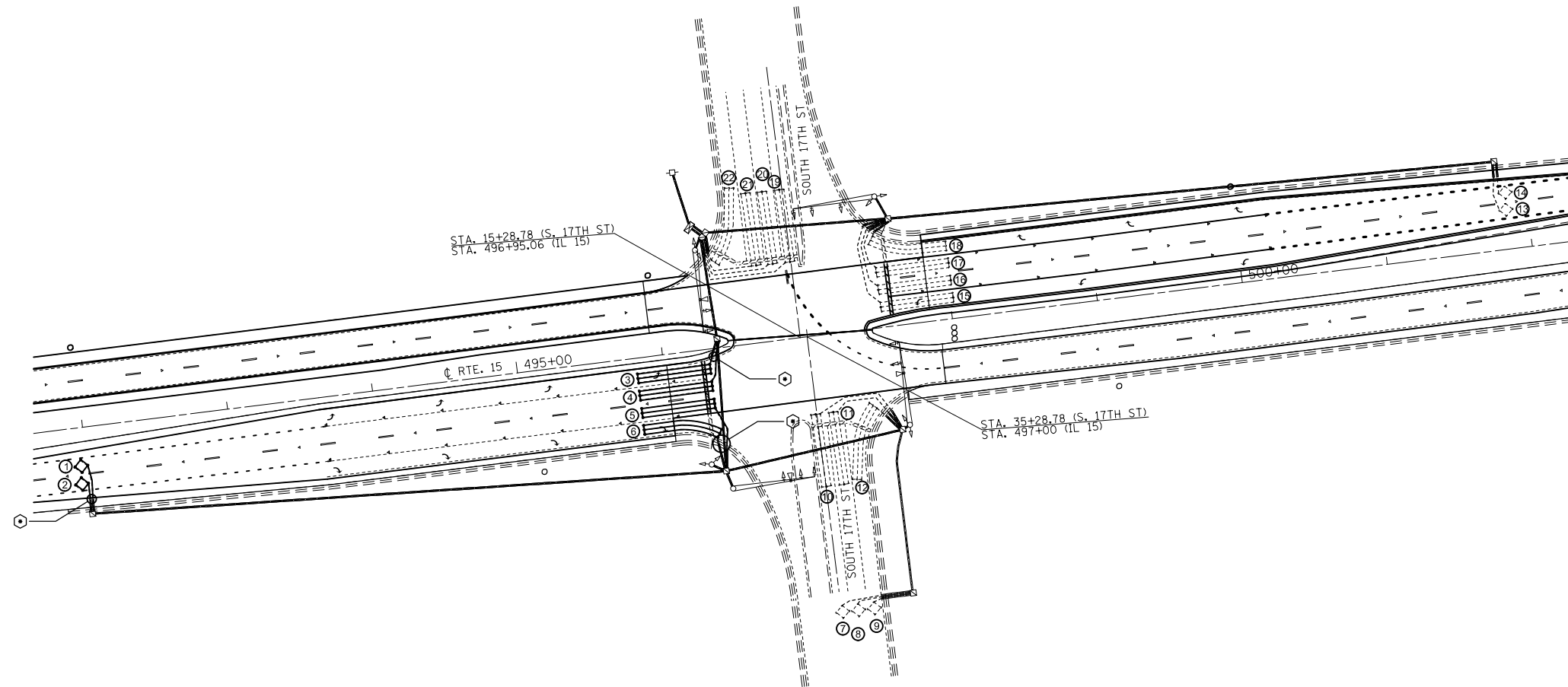
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 015 AND 17TH ST.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO A	6	6 x 6	7	515	3.8
2. EB CCO B	6	6 x 6	7	513	3.8
3. EB LT CD	1	6 x 50-Q	3-6-3	813	2.2
4. EB THRU CD A	6	6 x 50-Q	3-6-3	816	2.3
5. EB THRU CD B	6	6 x 50-Q	3-6-3	840	2.8
6. EB RT CD	6	6 x 50-Q	3-6-3	836	2.7
7. NB CCO A	8	6 x 6	7	474	2.9
8. NB CCO B	8	6 x 6	7	472	2.8
9. NB CCO C	8	6 x 6	7	469	2.8
10. NB LT CD	3	6 x 50-Q	3-6-3	873	3.6
11. NB THRU CD	8	6 x 50-Q	3-6-3	870	3.5
12. NB RT CD	8	6 x 50-Q	3-6-3	863	3.4
13. WB CCO A	2	6 x 6	7	501	3.5
14. WB CCO B	2	6 x 6	7	498	3.4
15. WB LT CD	5	6 x 50-Q	3-6-3	837	2.8
16. WB THRU CD A	2	6 x 50-Q	3-6-3	834	2.7
17. WB THRU CD B	2	6 x 50-Q	3-6-3	831	2.6
18. WB RT CD	2	6 x 50-Q	3-6-3	820	2.5
19. SB LT CD	7	6 x 50-Q	3-6-3	808	2.0
20. SB THRU CD A	4	6 x 50-Q	3-6-3	805	2.0
21. SB THRU CD B	4	6 x 50-Q	3-6-3	803	2.0
22. SB RT CD	4	6 x 50-Q	3-6-3	796	1.8

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



FILE NAME =	USER NAME = conoverpj	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
IL015 AND S. 17TH ST.

SCALE: SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	(29-1,28-1,28-2,26-1)RS-1	ST. CLAIR	96	90
CONTRACT NO. 76G37				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				