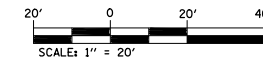
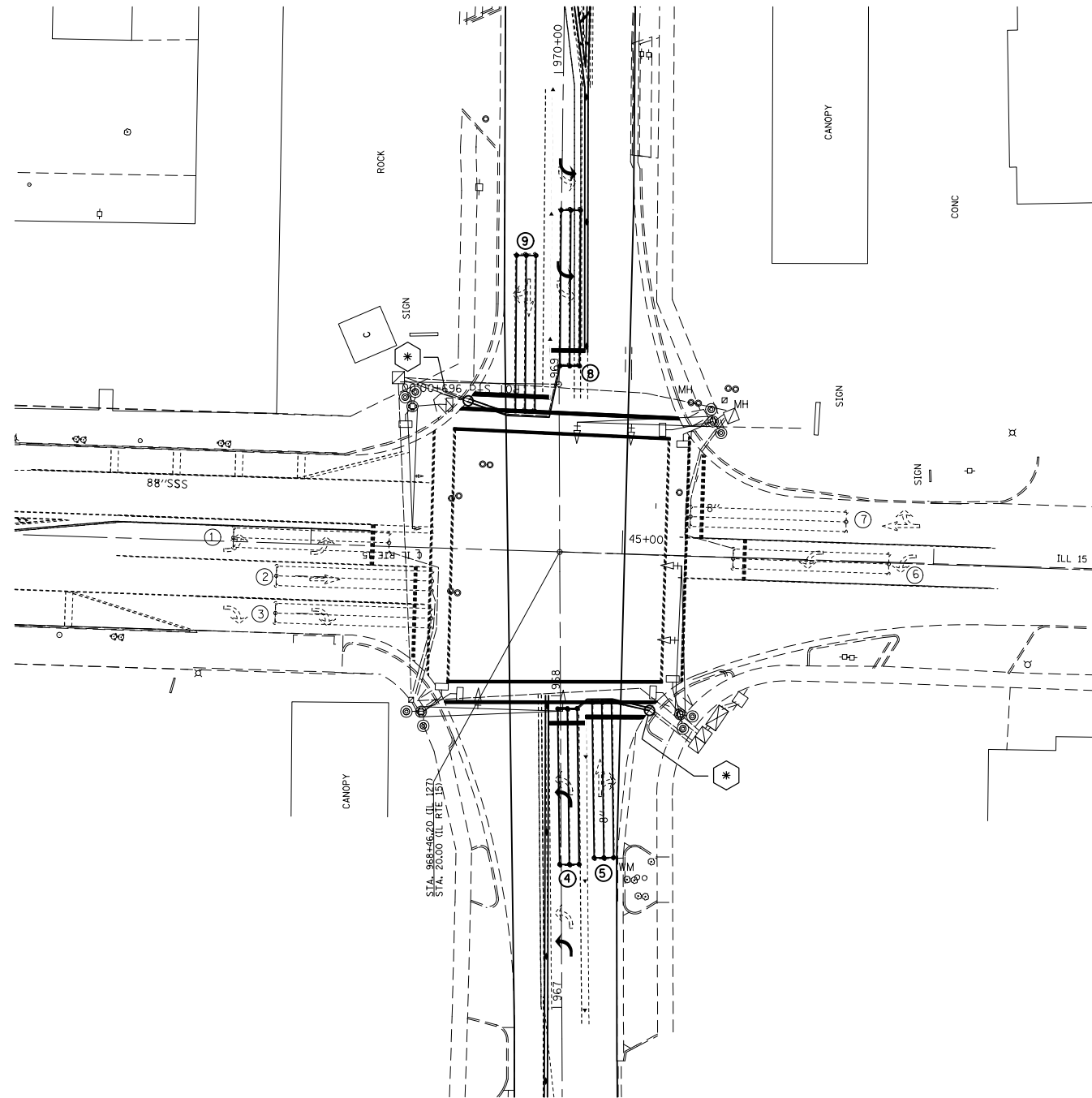


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 15, AND IL 127

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED * OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB LT CD	5	6 x 50	3-6-3	NA	NA
2. EB THRU CD A	2	6 x 50	3-6-3	NA	NA
3. EB THRU CD B	2	6 x 50	3-6-3	NA	NA
4. NB LT CD	3	6 x 50	3-6-3	798,5	1,9
5. NB THRU CD	8	6 x 50	3-6-3	795,7	1,8
6. WB THRU CD	1	6 x 50	3-6-3	NA	NA
7. WB THRU CD	6	6 x 50	3-6-3	NA	NA
8. SB LT CD	7	6 x 50	3-6-3	849,8	3,0
9. SB THRU CD	4	6 x 50	3-6-3	843,6	2,9

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

⊛ =SEE DETAIL A



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -
et:\pw\work\p\dot\prestonme\d0287304\d0287304.dwg	76F47-sht-TS.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/8/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 015 DETECTOR LOOP REPLACEMENT PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	102-1RS-3, 102-TS	WASHINGTON	46	41
CONTRACT NO. 76F47				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				