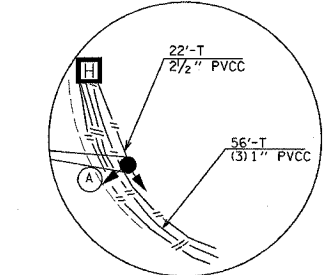


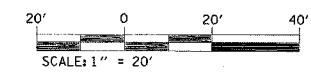
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 159 AND MORO ROAD

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)	
1	NB LT	5	6' X 50'	3-6-3	1235.74	2.71
2	NB THRU-L2	2	6' X 50'	3-6-3	1235.74	2.71
3	NB-RT	2	6' X 20'	3-6-3	1235.74	2.71
4	NB THRU-L2	2	6' X 6'	6	369.72	2.79
5	WB THRU-L1	8	6' X 50'	3-6-3	1262.36	3.31
6	WB RT	8	6' X 30'	3-6-3	1546.36	2.84
7	SB THRU-L2	6	6' X 50'	3-6-3	1239.48	2.79
8	SB LT	1	6' X 50'	3-6-3	1239.48	2.79
9	SB THRU-L2	6	6' X 6'	6	378.74	3.18
10	SB RT	6	6' X 20'	3-6-3	1239.48	2.79
11	EB THRU-L1	4	6' X 50'	3-6-3	1214.84	2.23
12	EB RT	4	6' X 50'	3-6-3	1214.84	2.23

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



N.W. QUADRANT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
 IL ROUTE 159 @ MORO RD.
 FAP ROUTE 604
 SECTION 102TS
 MADISON COUNTY

DRAWN BY:
 PLOT DATE: Friday January 07, 2005 @ 11:33:42 AM

DATE: _____
 BY: _____
 PLAN NO.: _____
 CHECKED: _____
 DATE: _____
 FILE NAME: _____

11/17/2004 11:33:42 AM
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