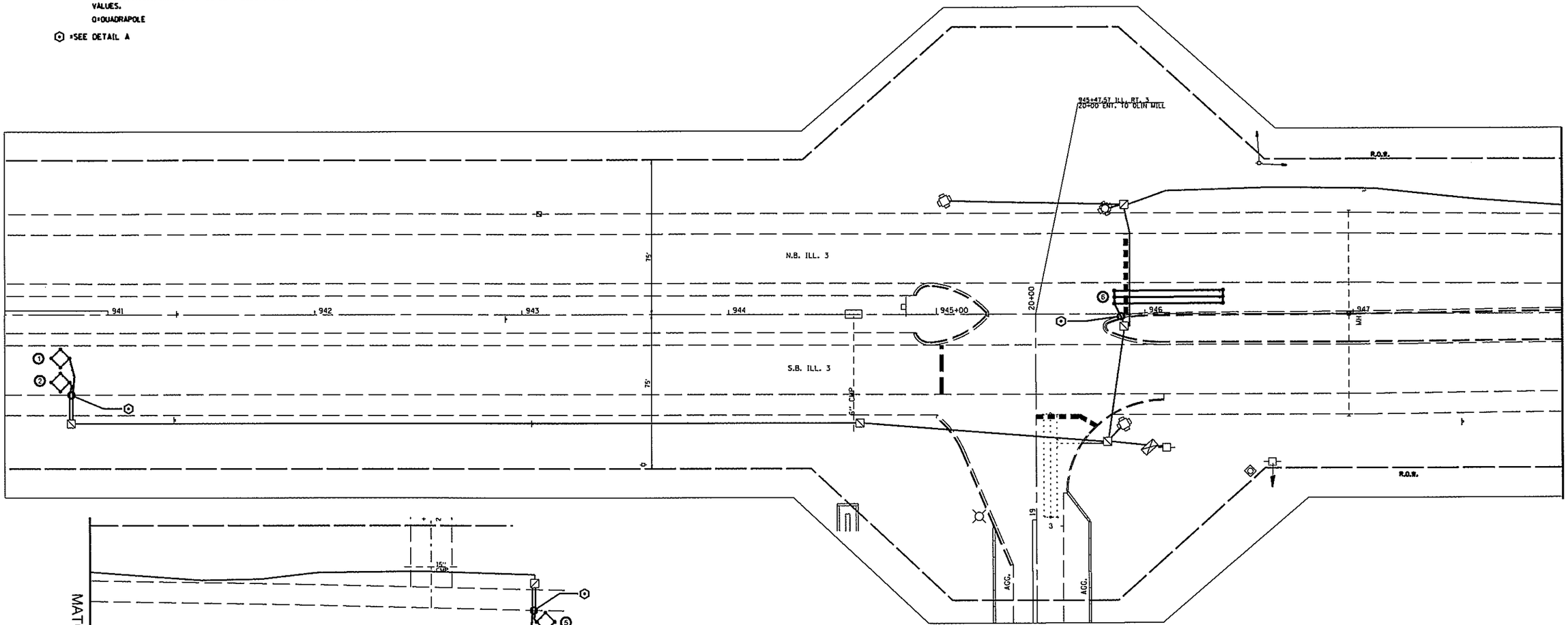
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 003 & OLIN INDUSTRIES ENTRANCE

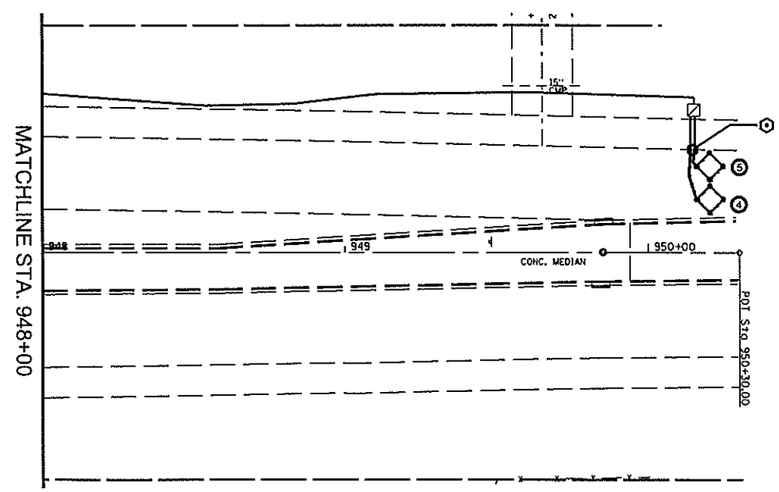
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. SB CCO A	2	6 X 6	6	377.9	3.2
2. SB CCO B	2	6 X 6	6	375.2	3.1
3. EB THRU CO	4	6 X 50-0	3-6-3	796.8	1.6
4. NB CCO A	6	6 X 6	7	498.5	3.4
5. NB CCO B	6	6 X 6	7	496.1	3.4
6. NB LT CO	1	6 X 50-0	3-6-3	804.9	2.0

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 003 & OLIN INDUSTRIES ENTRANCE

50' 0 50' 100'
SCALE: 1" = 50'

**FAP 789/FAP 2

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN 3 OF 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			*	202RS-4, 406-1RS-1	MADISON	22	22
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -					CONTRACT NO. 76H04		
	PLOT DATE = *DATE*	DATE -	REVISED -		SCALE: _____ SHEET NO. 4 OF 4 SHEETS STA. _____ TO STA. _____			ILLINOIS FED. AID PROJECT		