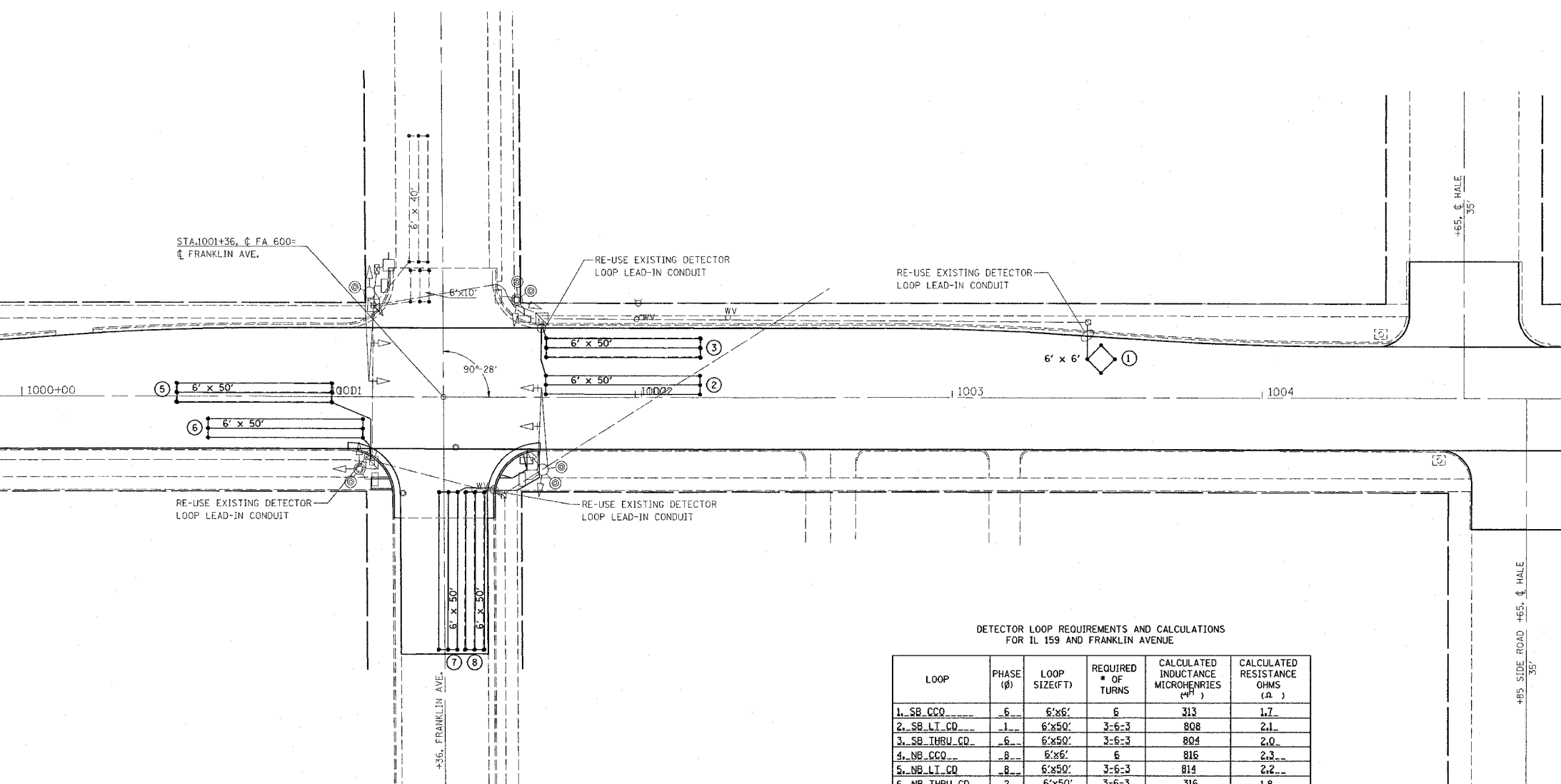


FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
600	34RS-2	MADISON	39	36
STA. _____ TO STA. _____		EXISTING CONDITIONS:		



PLAN	DATE
NO.	
BY	
CHECKED	
DESIGNED	
ALIGNED	
FILED	
FILE NAME	

MATCHLINE STA. 999+50



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 159 AND FRANKLIN AVENUE

LOOP	PHASE (Ø)	LOOP SIZE (FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. SB_CCO	6	6'x6'	6	313	1.7
2. SB_LT_CD	1	6'x50'	3-6-3	808	2.1
3. SB_THRU_CD	6	6'x50'	3-6-3	804	2.0
4. NB_CCO	8	6'x6'	6	816	2.3
5. NB_LT_CD	8	6'x50'	3-6-3	814	2.2
6. NB_THRU_CD	2	6'x50'	3-6-3	316	1.8
7. WB_THRU	5	6'x50'	3-6-3	808	2.1
8. WB_THRU	2	6'x50'	3-6-3	806	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.

THE QUANTITY OF DETECTOR LOOP REPLACEMENT AT THIS INTERSECTION IS 1020 FEET. ONLY THE DETECTOR LOOPS WHICH ARE DAMAGED SHALL BE REPLACED; THEREFORE, THE ACTUAL QUANTITY MAY VARY.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETECTOR LOOP REPLACEMENT**  
 FAP ROUTE 600 (IL RTE. 159)  
 SECTION 34RS-2  
 MADISON COUNTY

DRAWN BY:

PLOT DATE: 5/15/2006