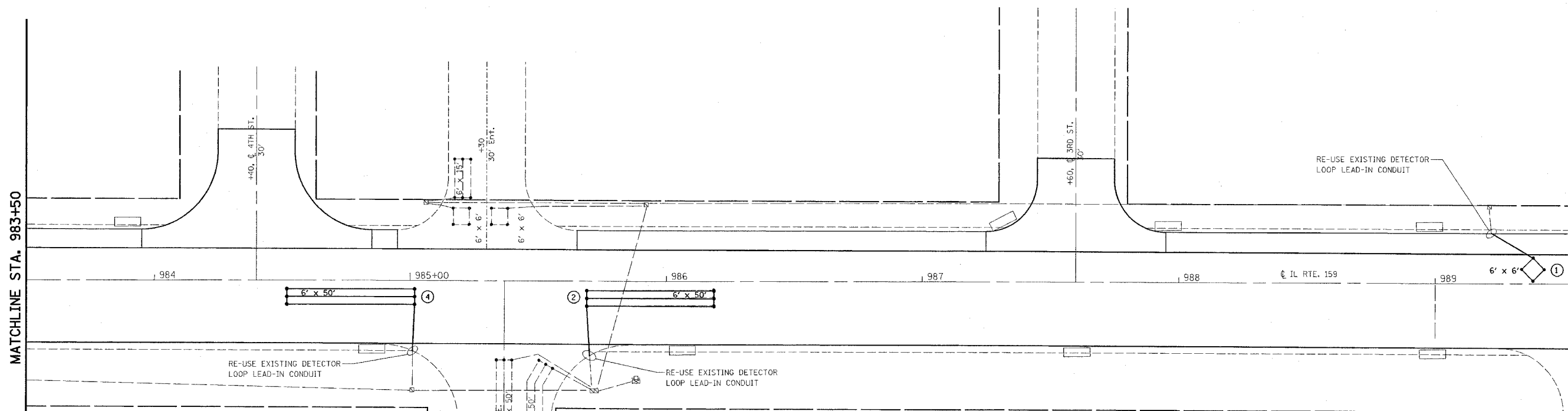


FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	34RS-2	MADISON	39	34
STA. _____		TO STA. _____		
EXISTING CONDITIONS: _____				



PLAIN	DATE
SURVEYED	
NOTE BOOK	
NO. _____	
BY _____	
DATE _____	
REVISIONS	
NO. _____	
DATE _____	
BY _____	
DATE _____	

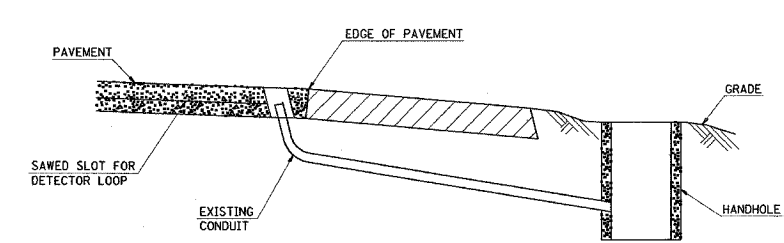


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 159 AND MONTCLAIR AVENUE

LOOP	PHASE (Ø)	LOOP SIZE (FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. SB CCO	2	6'x6'	6	359	2.7
2. SB LT	5	6'x50'	3-6-3	800	2.0
3. NB CCO	4	6'x6'	6	340	2.3
4. NB LT	3	6'x50'	3-6-3	816	2.3

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 372 FEET. ONLY THE DETECTOR LOOPS WHICH ARE DAMAGED SHALL BE REPLACED; THEREFORE, THE ACTUAL QUANTITY MAY VARY.



DETAIL A (NO SCALE)
RE-USE EXISTING DETECTOR LOOP LEAD-IN CONDUIT

- 1 DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
- 2 REMOVE EXISTING CABLE TO HANDHOLE.
- 3 INSTALL LOOP LEAD-IN CONDUCTORS IN CONDUIT.
- 4 SPLICE NEW DETECTOR LOOP LEAD-IN CONDUCTORS TO EXISTING LEAD-IN CABLE IN HANDHOLE.
- 5 FILL HOLE WITH APPROVED SEALER, PREVENT SEALER FROM ENTERING INTO CONDUIT.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

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

5/15/2006
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