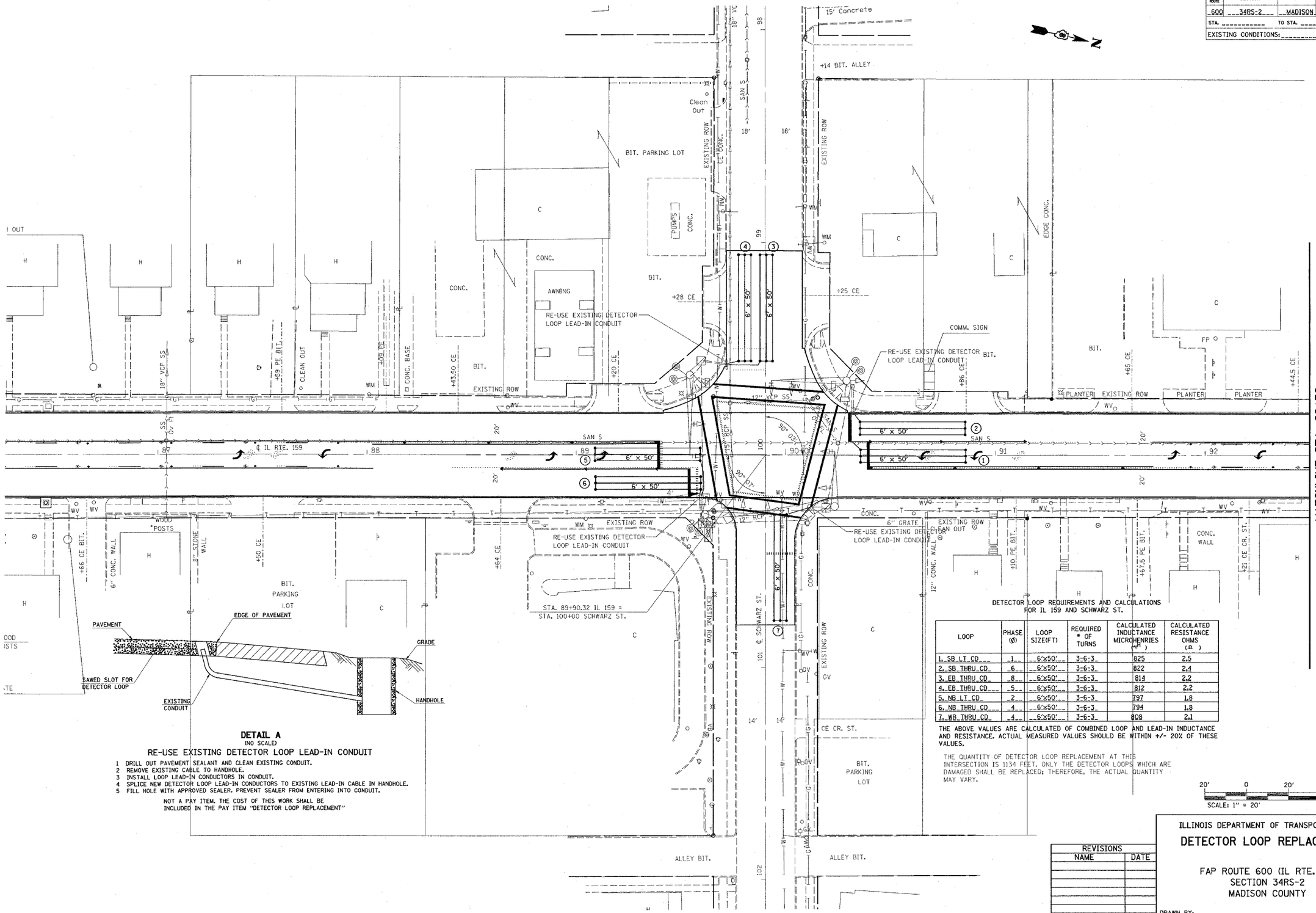
CONTRACT NO. 76441

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
600	34RS-2	MADISON	39	37
STA.		TO STA.		
EXISTING CONDITIONS:				

PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / RT. OF WAY CHECKED / COGO FILE NAME / NOTE BOOK / NO. — BY / DATE



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"

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 159 AND SCHWARZ ST.

LOOP	PHASE (ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. SB LT CD	1	6'x50'	3-6-3	825	2.5
2. SB THRU CD	6	6'x50'	3-6-3	822	2.4
3. EB THRU CD	8	6'x50'	3-6-3	814	2.2
4. EB THRU CD	5	6'x50'	3-6-3	812	2.2
5. NB LT CD	2	6'x50'	3-6-3	797	1.8
6. NB THRU CD	4	6'x50'	3-6-3	794	1.8
7. WB THRU CD	4	6'x50'	3-6-3	808	2.1

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 1134 FEET. ONLY THE DETECTOR LOOPS WHICH ARE DAMAGED SHALL BE REPLACED; THEREFORE, THE ACTUAL QUANTITY MAY VARY.

20' 0 20' 40'
SCALE: 1" = 20'

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: 5/19/2006

#8031E64
5/19/2006
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