F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
:	: :	MADISON	7	7

STA. _____ TO STA. _____

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

:   EAU 9251 / FAS 1848 / EAU 9288

: :   27RS-2, 28, 29RS-2

PAVEMENT

EDGE OF PAVEMENT

GRADE

SAWED SLOT FOR DETECTOR LOOP

EXISTING CONDUIT
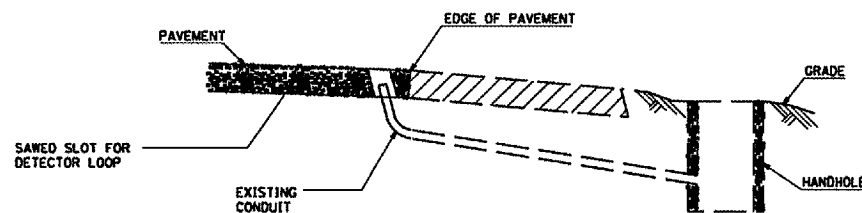
HANDHOLE

DETAIL
(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.
6 LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

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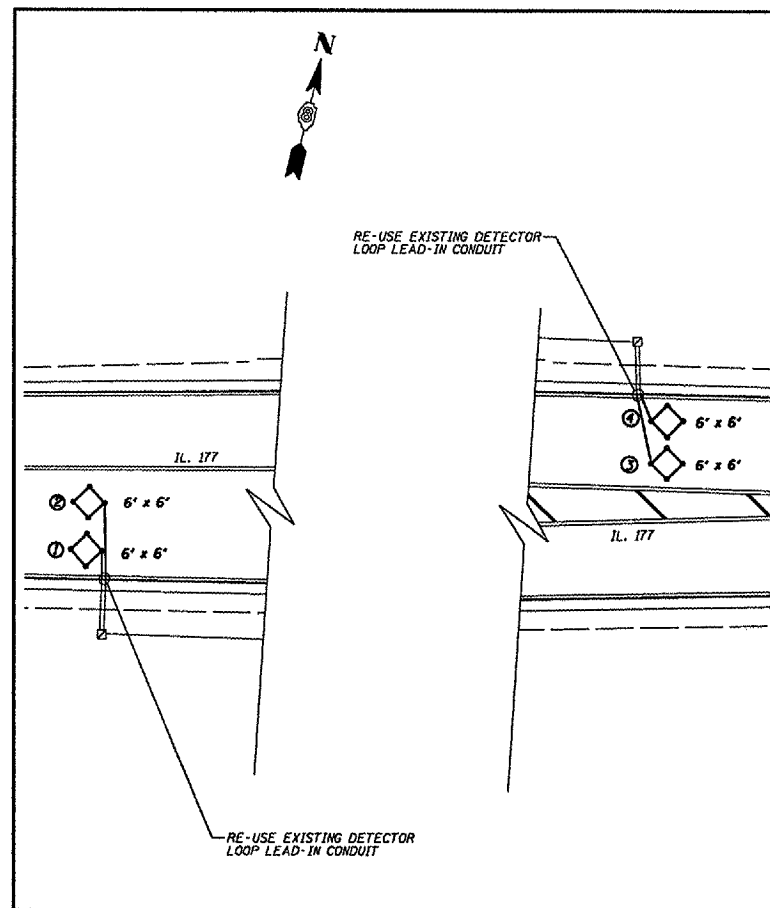INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 177 AND GREEN MOUNT RD.

LOOP	PHASE (#)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO	5	6' x 6'	7	536	4.3
2. EB CCO	2	6' x 6'	7	536	4.3
3. WB CCO	1	6' x 6'	6	380	3.2
4. WB CCO	6	6' x 6'	6	380	3.2

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

SCHEDULE OF QUANTITIES

CODE NO.	DESCRIPTION	QUANTITY
80300100	LOCATING UNDERGROUND CABLE	50
88600600	DETECTOR LOOP REPLACEMENT	144

N

RE-USE EXISTING DETECTOR LOOP LEAD-IN CONDUIT

IL. 177

④ 6' x 6'

③ 6' x 6'

② 6' x 6'

① 6' x 6'

IL. 177

RE-USE EXISTING DETECTOR LOOP LEAD-IN CONDUIT

NOTES:

1. THE EXISTING HANDHOLES AND CONDUITS SHALL BE REUSED.
   THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING EXISTING
   CONDUITS STUB-UP DURING CONSTRUCTION.
   IF THEY HAVE BEEN DAMAGED, SHALL BE REPLACED AT THE COST
   OF THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION AND TO THE
   SATISFACTION OF THE ENGINEER.

2. THE TOTAL QUANTITY OF DETECTOR LOOP REPLACEMENT AT THIS
   INTERSECTION IS 144 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

FAU 9251 / FAS 1848 / FAU 9288
SECTION 27RS-2, 28, 29RS-2
ST. CLAIR COUNTY

SCALE: VERT. ____ HORIZ. ____

DATE ____

DRAWN BY ____

CHECKED BY ____