

2-1" PVCC (EXIST)
INSTALL PROPOSED LOOP LEAD-INS
IN EXISTING CONDUIT. (SEE DETAIL)

2-1" PVCC-T-13' (EACH)
SPlice INTO EXISTING CONDUITS
AT THE HANDHOLE.

POT Sta 100+00.00

100+00

101

102

105+00

Sta 101+50.00 IL RTE 159 =
Sta 0+00.00 S MORRISON AVE

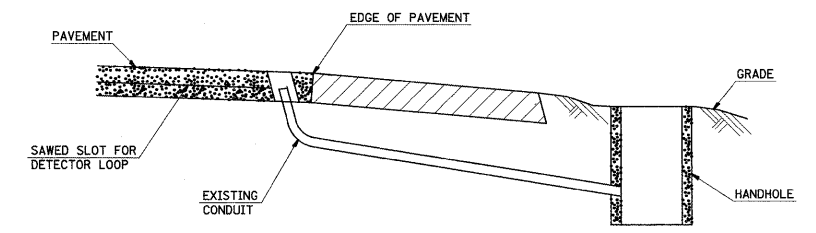
WOODED AREA

DETECTOR LOOP REPLACEMENT

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 159 AND MORRISON AVE, NORTH LEG

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
S.B. THRU LN#1	6'X50'	3-6-3	810	2.15
S.B. THRU LN#2	6'X50'	3-6-3	810	2.15
CCO#3	6'X6'	6	348	2.5
CCO#4	6'X6'	6	348	2.5

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

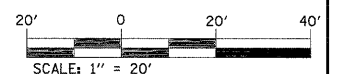


DETAIL
(NO SCALE)

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.

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



FILE NAME =	USER NAME = pestelbm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLAN - IL 159 @ S. MORRISON AVE.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwidot\pate\lbm\dms79810\0874830-shita-ts.dgn	830-shita-ts.dgn	DRAWN -	REVISED -			600	60-(30,31,128)-1	MADISON	399	177
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 76830				
PLOT DATE = 9/28/2009		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			