DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR US 50 AND IL 127, SOUTH JUNCTION-CARLYLE

L00P	LOOP SIZE(FT)	REQUIRED * OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS (A)
NB CCO #1	6X6	5	247	2.08
NB LT TURN LN #2	6X50	3-6-3	830	2.60
NB THRU LN *3	6X50	3-6-3	830	2.60
EB LT TURN LN #4	6X50	3-6-3	804	2.00
EB THRU LN #5	6X50	3~6~3	804	2.00

ELECTRICAL QUANTITIES:

CODE NO.	DESCRIPTION	UNIT	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	FOOT	810
80300180	LOCATING UNDER GROUND CABLE	FOOT	50

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

TS 1386 INSTALL PROPOSED LOOP LEAD-INS IN EXISTING CONDUIT (SEE DETAIL) ₡ IL 127 ② 6'X50' -3 - 6'X50' INSTALL PROPOSED LOOP LEAD-INS IN EXISTING CONDUIT (SEE DETAIL) INSTALL PROPOSED LOOP --LEAD-INS IN EXISTING CONDUIT (SEE DETAIL) FRANKLIN STREET - STA. 613+32.13/ IL 127/US 50 - STA. 321+16.87

RE-USE EXISTING DETECTOR LOOP LEAD-IN CABLE IN CONDUIT

SAWED SLOT FOR

- 1 LOCATE UNDERGROUND CABLE FROM H.H. TO PAVEMENT.
 2 DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
 3 REMOVE EXISTING LEAD-IN CONDUCTORS TO HANDHOLE.
 4 INSTALL LOOP LEAD-IN CONDUCTORS IN EXISTING CONDUIT.
 5 SPLICE NEW DETECTOR LOOP LEAD-IN CONDUCTORS TO EXISTING LEAD-IN CABLE IN HANDHOLE.
 6 FILL HOLE WITH APPROVED SEALER, PREVENT SEALER FROM ENTERING INTO CONDUIT.
 - THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT", EXCEPT LOCATE UNDERGROUND CABLE IS A SEPARATE PAY ITEM.

ELECTRCIAL GENERAL NOTE:

THE EXISTING DETECTOR LOOP CONDUIT FROM PAVEMENT TO THE HANDHOLE WILL BE RE-USED FOR THE REPLACED DETECTOR LOOP. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING THE EXISITNG CONDUIT DURING THE CONSTRUCTION OPERATION. SHOULD ANY DAMAGE OCCURE DUE TO THE CONTRACTOR'S OPERATIONS, REPAIRS WILL BE MADE TO THE SATISFACTION OF THE ENGINEER AND WILL BE DONE AT THE CONTRACTOR'S EXPENSE.

F	LE NAME =	USER NAME = #USER#	DESIGNED	REVISED			F.A.P SECTION COUNTY TOTAL SHEE	FT
	TLEL*		DRAWN	REVISED	STATE OF ILLINOIS	DETECTOR LOOP REPLACEMENT	INIE. SMEETS NO.	
		PLOT SCALE = #SCALE#	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION	THE WASHINGTON	42 (130-1)RS-5 CLINTON 26 21	<u>.</u>
L		PLOT DATE = #DATE#	DATE	REVISED		SCALE: 1:20 SHEET NO. 1 OF 1 SHEET STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	11
FEU. ROAU UIST, NO ILLINOIS FEU. AID PROJECT								