

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.

SEE "ELECTRICAL DETAIL" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.

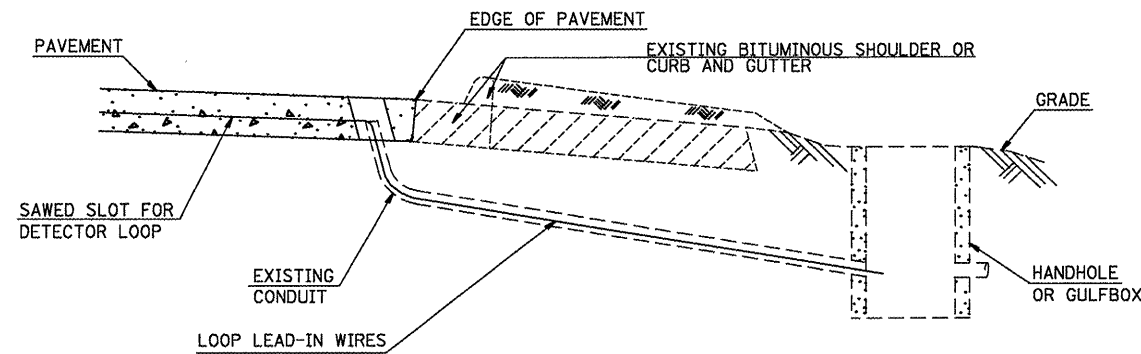
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 16 AND IL 267

LOOP	PHASE (Ø)	LOOP SIZE (FT X FT)	REQUIRED * OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. NEB LT CD	3	6 X 50-Q	3-6-3	811.1	2.2
2. NEB THRU CD	8	6 X 50-Q	3-6-3	808.7	2.1
3. NWB LT CD	1	NA	NA	NA	NA
4. NWB THRU CD	6	NA	NA	NA	NA
5. NWB THRU CD	6	NA	NA	NA	NA
6. SWB LT CD	7	6 X 50-Q	3-6-3	812.4	2.2
7. SWB THRU CD	4	6 X 50-Q	3-6-3	809.8	2.1
8. SEB LT CD	5	NA	NA	NA	NA
9. SEB THRU CD	2	NA	NA	NA	NA
10. SEB THRU CD	2	NA	NA	NA	NA

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

Q=QUADRAPOLE

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES
CODE NO	ITEM	UNIT	
80300100	LOCATING UNDERGROUND CABLE	FOOT	20
88600600	DETECTOR LOOP REPLACEMENT	FOOT	714



DETAIL A (NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
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"

TRAFFIC SIGNALS LEGEND

- EX. HANDHOLE
- EX. DETECTOR LOOP
- EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- PROPOSED DETECTOR LOOP

