

NOTES:

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

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

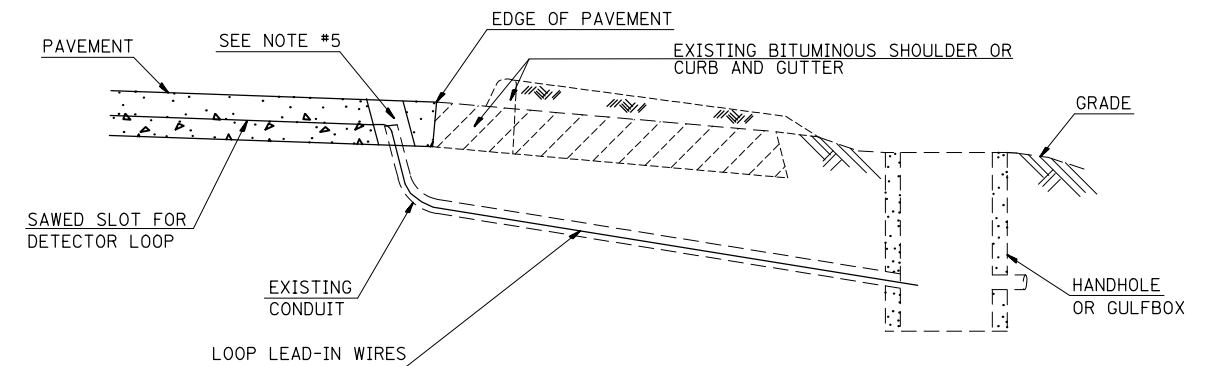
SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	MO. AVE. & PONTOON RD.		
CODE NO	ITEM	UNIT				
80300100	LOCATING UNDERGROUND CABLE	FOOT	50	50		
88600600	DETECTOR LOOP REPLACEMENT	FOOT	1039	1039		

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR MISSOURI AVE. AND PONTOON RD.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. NB. CCO	6	6 X 6	7	455.6	2.5
2. NB. LT CD	1	6 X 50-Q	3-6-3	832.9	2.7
3. NB. THRU CD	6	6 X 50-Q	3-6-3	829.6	2.6
4. NB. RT CD	6	6 X 30-Q	3-6-3	523.6	1.8
5. WB. CCO	4	6 X 6	NA	NA	NA
6. WB. CCO	4	6 X 6	NA	NA	NA
7A. WB. LT CD	7	6 X 50-Q	NA	NA	NA
8A. WB. THRU A CD	4	6 X 50-Q	NA	NA	NA
9A. WB. THRU B CD	4	6 X 50-Q	NA	NA	NA
7B. WB. LT CD	7	6 X 50-Q	NA	NA	NA
8B. WB. THRU A CD	4	6 X 50-Q	NA	NA	NA
9B. WB. THRU B CD	4	6 X 50-Q	NA	NA	NA
10. WB RT CD	4	6 X 30-Q	NA	NA	NA
11. SB. CCO	2	6 X 6	7	464.8	2.7
12. SB. LT CD	5	6 X 50-Q	3-6-3	810.9	2.2
13. SB. THRU CD	5	6 X 50-Q	3-6-3	808.2	2.1
14. SB. RT CD	5	6 X 30-Q	3-6-3	502.9	1.4
15.EB. CCO	8	6 X 6	NA	NA	NA
16.EB. CCO	8	6 X 6	NA	NA	NA
17.EB. LT CD	3	6 X 50-Q	NA	NA	NA
18.EB. THRU CD	8	6 X 50-Q	NA	NA	NA
19.EB. THRU CD	8	6 X 50-Q	NA	NA	NA
20.EB. RT CD	8	6 X 30-Q	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



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"

DETECTOR LOOP REPLACEMENT LEGEND

- ☐ EX. HANDHOLE
- ⋯ EX. DETECTOR LOOP
- ⊠ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▭ PROPOSED DETECTOR LOOP