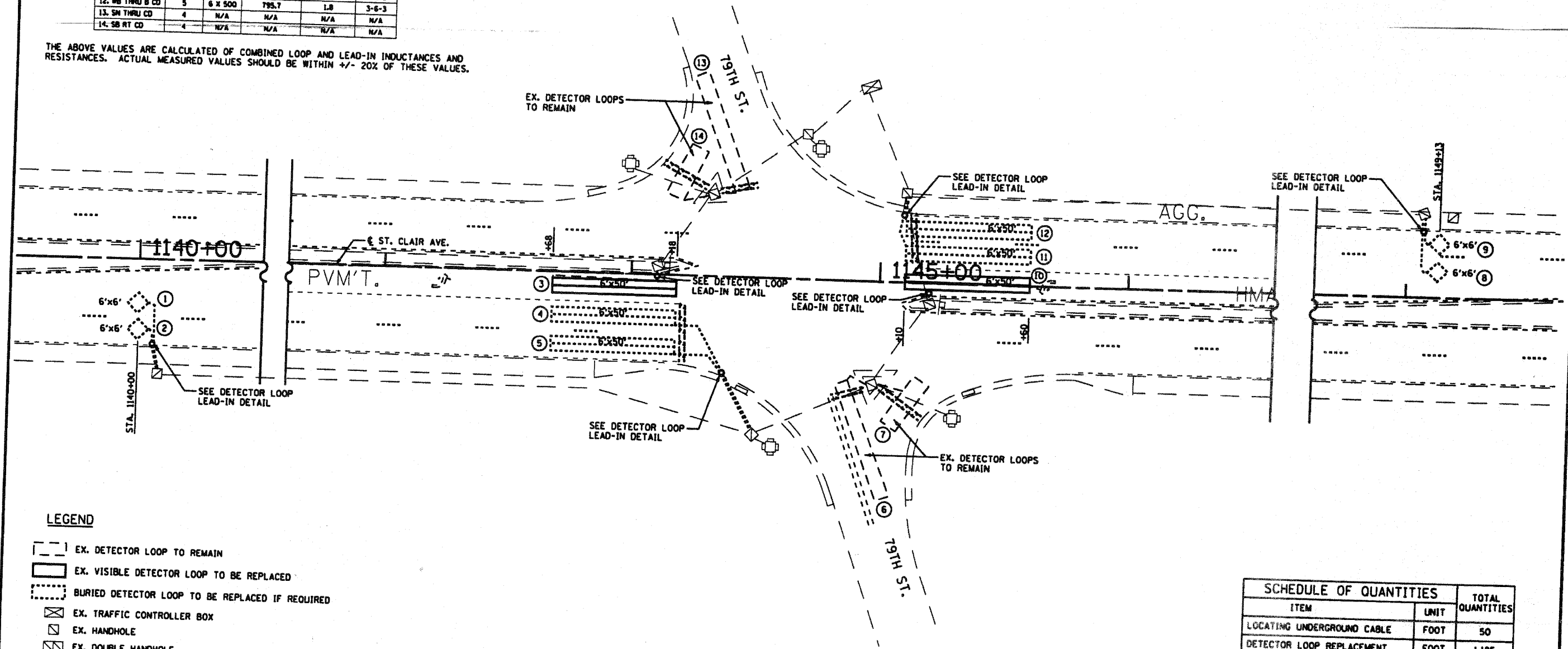


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR ST. CLAIR AVE AND 79TH ST.

ST. CLAIR & 79TH ST.					
LOOP	PHASE #	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES (μ H)	CALCULATED RESISTANCE OHMS (Ω)	REQUIRED # OF TURNS
1. EB A CCD	2	6 X 6	368.4	2.9	6
2. EB B CCD	2	6 X 6	368.4	2.9	6
3. EB LT CD	5	6 X 500	368.0	2.9	6
4. EB THRU A CD	2	6 X 500	368.4	2.9	6
5. EB THRU B CD	2	6 X 500	841.9	2.9	3-6-3
6. NB THRU CD	3	N/A	N/A	N/A	N/A
7. NB RT CD	3	N/A	N/A	N/A	N/A
8. WB A CCD	5	6 X 6	816.4	2.3	3-6-3
9. WB B CCD	5	6 X 6	816.4	2.3	3-6-3
10. WB LT CD	1	6 X 500	816.4	2.3	3-6-3
11. WB THRU A CD	5	6 X 500	816.4	2.3	3-6-3
12. WB THRU B CD	5	6 X 500	795.7	1.8	3-6-3
13. SB THRU CD	4	N/A	N/A	N/A	N/A
14. SB RT CD	4	N/A	N/A	N/A	N/A

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



LEGEND

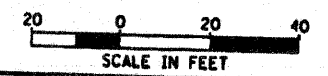
- EX. DETECTOR LOOP TO REMAIN
- EX. VISIBLE DETECTOR LOOP TO BE REPLACED
- BURIED DETECTOR LOOP TO BE REPLACED IF REQUIRED
- EX. TRAFFIC CONTROLLER BOX
- EX. HANDHOLE
- EX. DOUBLE HANDHOLE
- EX. TRAFFIC SIGNAL BASE
- EX. TRAFFIC CONTROLLER CONDUIT

SCHEDULE OF QUANTITIES		
ITEM	UNIT	TOTAL QUANTITIES
LOCATING UNDERGROUND CABLE	FOOT	50
DETECTOR LOOP REPLACEMENT	FOOT	1,185

FILE NAME: #FILEL9	USER NAME: #USER8	DESIGNED: CMV	REVISED:
Johnson, Dupp & O'Connell CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE: #SCALE8	DRAWN: SJS	REVISED:
	PLOT DATE: #DATE8	CHECKED: CMV	REVISED:
		DATE: 10/21/2010	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
ST. CLAIR AVE. & 79TH ST.



SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	F.A.D. RTE. 9166	SECTION 34-IRS-3	COUNTY ST. CLAIR	TOTAL SHEETS 87	SHEET NO. 72
							CONTRACT NO. 78086
ILLINOIS FED. AID PROJECT							