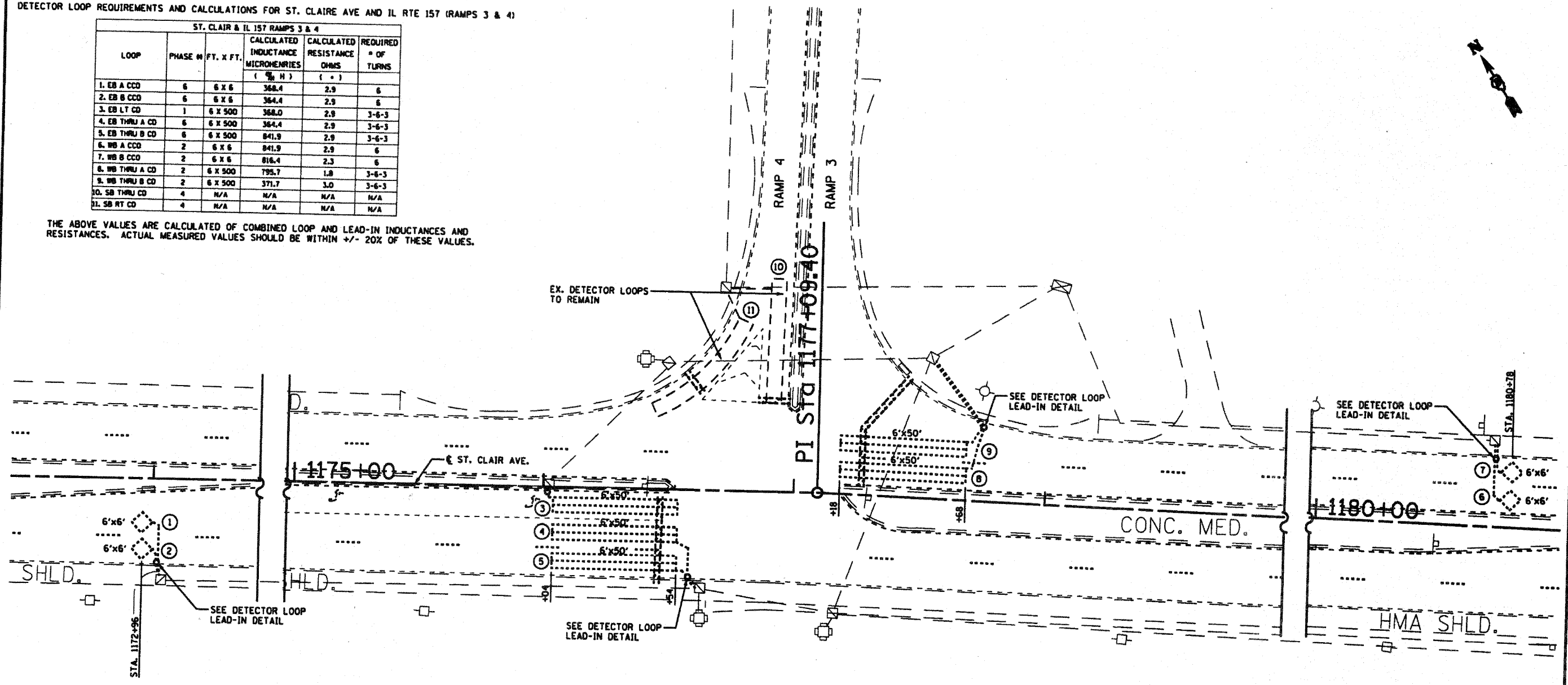


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR ST. CLAIRE AVE AND IL RTE 157 (RAMPS 3 & 4)

ST. CLAIR & IL 157 RAMPS 3 & 4					
LOOP	PHASE #	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES ($\frac{L}{H}$)	CALCULATED RESISTANCE OHMS (R)	REQUIRED # OF TURNS
1. EB A CCO	6	6 X 6	368.4	2.9	6
2. EB B CCO	6	6 X 6	364.4	2.9	6
3. EB LT CD	1	6 X 500	368.0	2.9	3-6-3
4. EB THRU A CD	6	6 X 500	364.4	2.9	3-6-3
5. EB THRU B CD	6	6 X 500	841.9	2.9	3-6-3
6. WB A CCO	2	6 X 6	841.9	2.9	6
7. WB B CCO	2	6 X 6	816.4	2.3	6
8. WB THRU A CD	2	6 X 500	795.7	1.8	3-6-3
9. WB THRU B CD	2	6 X 500	371.7	3.0	3-6-3
10. SB THRU CD	4	N/A	N/A	N/A	N/A
11. 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	45
DETECTOR LOOP REPLACEMENT	FOOT	1,004



FILE NAME *	USER NAME * #USER#	DESIGNED - CMV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ST. CLAIR AVE. & IL 157 RAMPS 3 & 4	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	F. ALL. RTE. 9166	SECTION 34-IRS-3	COUNTY ST. CLAIR	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE * #SCALE#	DRAWN - SJS	REVISED -								87	73
	PLOT DATE * #DATE#	CHECKED - CMV	REVISED -								CONTRACT NO. 78006	
	DATE - 10/21/2010	DATE	REVISED -								ILLINOIS FED. AID PROJECT	