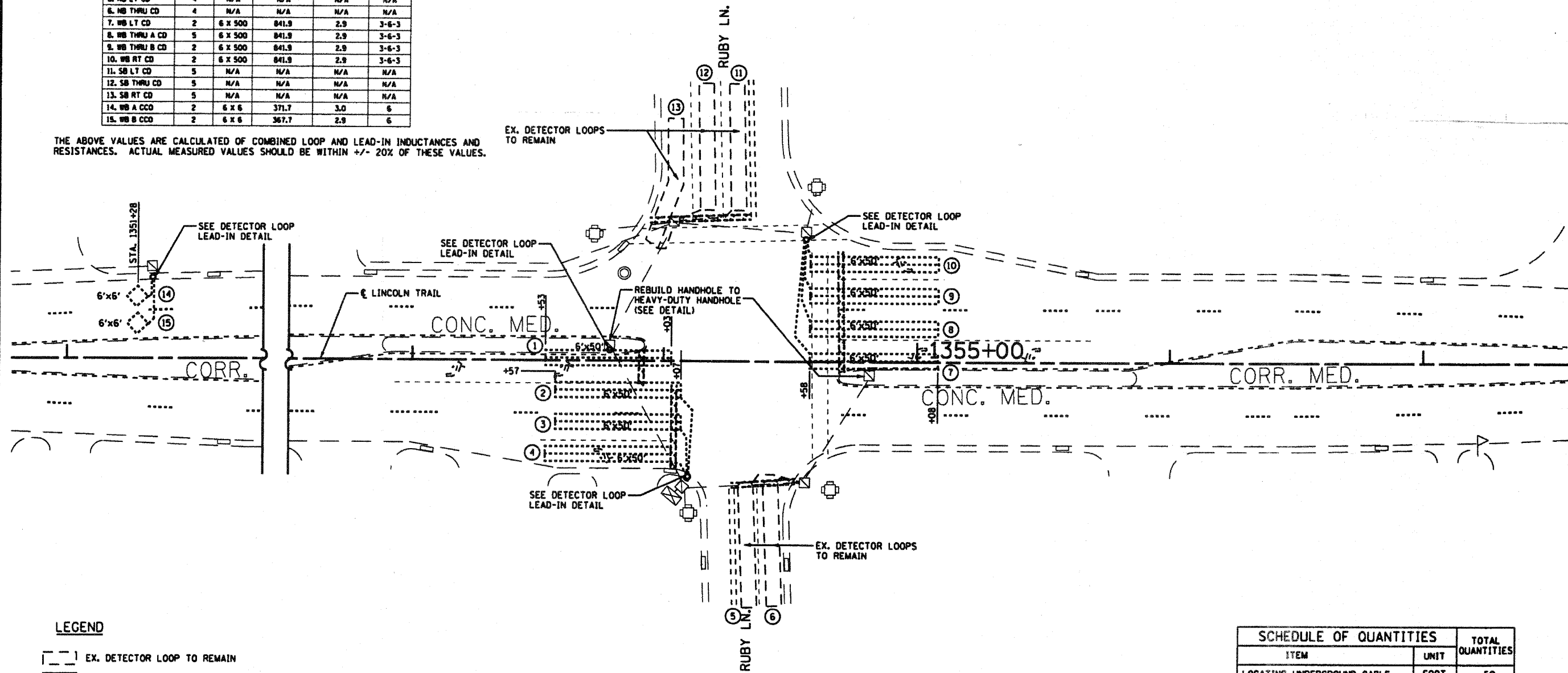


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR LINCOLN TRAIL AND RUBY LN.

LINCOLN TRAIL & RUBY LN.					
LOOP	PHASE #	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES ( $\frac{\mu H}{\text{L}}$ )	CALCULATED RESISTANCE OHMS ( $\Omega$ )	REQUIRED # OF TURNS
1. EB LT CD	1	6 X 500	368.4	2.9	6
2. EB THRU A CD	6	6 X 500	364.4	2.9	6
3. EB THRU B CD	6	6 X 500	368.0	2.9	6
4. EB RT CD	6	6 X 500	364.4	2.9	6
5. WB LT CD	4	N/A	N/A	N/A	N/A
6. WB THRU CD	4	N/A	N/A	N/A	N/A
7. WB LT CD	2	6 X 500	841.9	2.9	3-6-3
8. WB THRU A CD	5	6 X 500	841.9	2.9	3-6-3
9. WB THRU B CD	2	6 X 500	841.9	2.9	3-6-3
10. WB RT CD	2	6 X 500	841.9	2.9	3-6-3
11. SB LT CD	5	N/A	N/A	N/A	N/A
12. SB THRU CD	5	N/A	N/A	N/A	N/A
13. SB RT CD	5	N/A	N/A	N/A	N/A
14. WB A CCO	2	6 X 6	371.7	3.0	6
15. WB B CCO	2	6 X 6	367.7	2.9	6

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



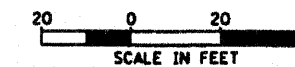
LEGEND

- 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		TOTAL QUANTITIES
ITEM	UNIT	
LOCATING UNDERGROUND CABLE	FOOT	50
DETECTOR LOOP REPLACEMENT	FOOT	1,537
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	2

NOTE: SEE ROADWAY PLANS FOR DETAILS OF REMOVAL AND REPLACEMENT OF CONCRETE MEDIAN.

NEW DETECTOR LOOPS SHALL BE CENTERED WITHIN THE LANES AS SHOWN ON THE PROPOSED STRIPING PLAN.



FILE NAME #FILE# 	USER NAME : #USER#	DESIGNED - CMV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT LINCOLN TRAIL & RUBY LN.	P.A.U. RTE. 9166	SECTION 34-IRS-3	COUNTY ST. CLAIR	TOTAL SHEET 87	SHEET NO. 80
	PLOT SCALE : #SCALE#	CHECKED - CMV	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. T8096	