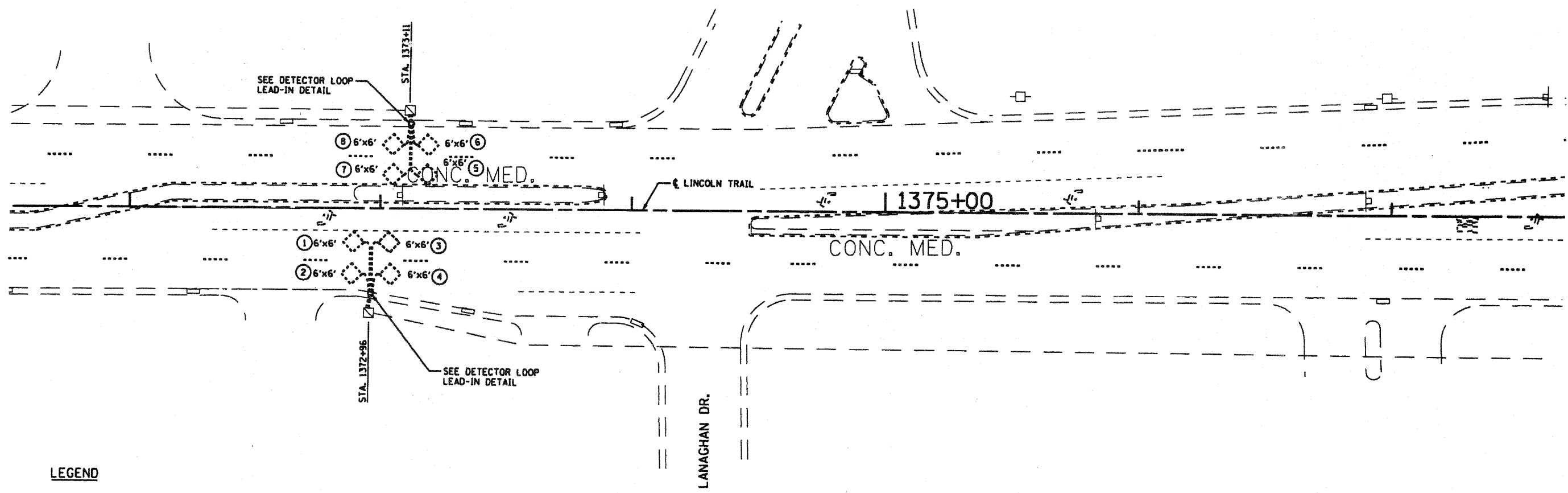


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR LINCOLN TRAIL AND LANAGHAN DR.

LOOP	PHASE #	FT. X FT.	CALCULATED	CALCULATED	REQUIRED
			INDUCTANCE MICROHENRIES ( $\frac{\mu H}{H}$ )	RESISTANCE OHMS ( $\Omega$ )	# OF TURNS
1. EB 1A CCO	6	6 X 6	368.4	2.9	3-6-3
2. EB 1B CCO	6	6 X 6	364.4	2.9	3-6-3
3. EB 2A CCO	6	6 X 6	368.0	2.9	3-6-3
4. EB 2B CCO	6	6 X 6	364.4	2.9	3-6-3
5. WB 1A CCO	8	6 X 6	841.9	2.9	3-6-3
6. WB 1B CCO	8	6 X 6	841.9	2.9	3-6-3
7. WB 2A CCO	8	6 X 6	841.9	2.9	3-6-3
8. WB 2B CCO	8	6 X 6	841.9	2.9	3-6-3

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

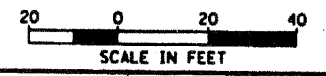


LEGEND

- 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
ITEM	UNIT	QUANTITIES
LOCATING UNDERGROUND CABLE	FOOT	40
DETECTOR LOOP REPLACEMENT	FOOT	312

NOTE: NEW DETECTOR LOOPS SHALL BE CENTERED WITHIN THE LANES SHOWN ON THE PROPOSED STRIPING PLANS.



FILE NAME #FILE#	USER NAME : #USER#	DESIGNED - CMV DRAWN - SJS CHECKED - CMV DATE - 10/21/2010	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT LINCOLN TRAIL & LANAGHAN DR.	F.A.U. RTE. 9166	SECTION 34-1RS-3	COUNTY ST. CLAIR	TOTAL SHEETS 87	SHEET NO. 82
				SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 76066 ILLINOIS FED. AID PROJECT				