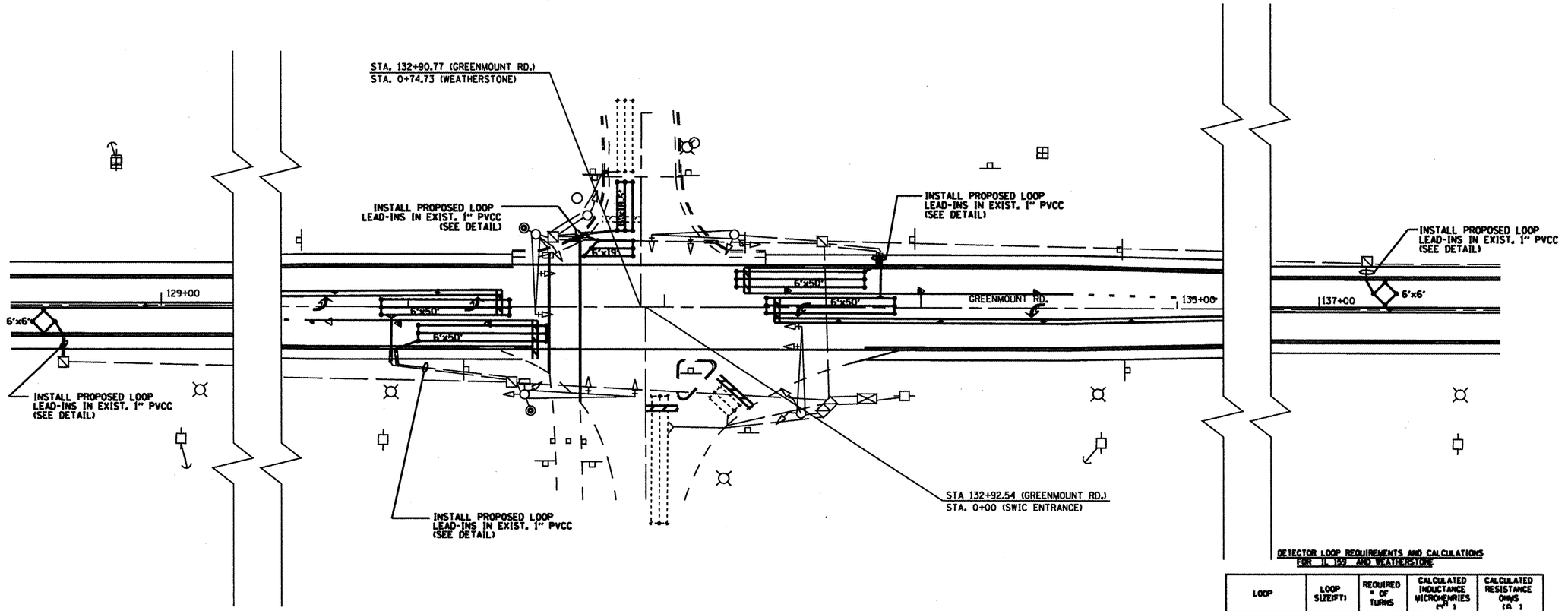

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 159 AND WEATHERSTONE

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (H^M)	CALCULATED RESISTANCE OHMS (Ω)
NB LT TURN LN	6 X 50	3-6-3	838	2.78
NB THRU LN	6 X 50	3-6-3	838	2.78
NB CCO	6 X 6	6	374	3.1
SB LT TURN LN	6 X 50	3-6-3	819	2.35
SB THRU LN	6 X 50	3-6-3	819	2.35
SB CCO	6 X 6	6	395	2.6
EB CD	6 X 19	3-6-3	371	1.80
EB CD	6 X 18.5	3-6-3	365	1.82

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

• Dist 8 Resurfacing 2010-4

FILE NAME = c:\pw_work\pwidot\fraytr\d8176162\d8786859-sht-TS.dgn	USER NAME = fraytr	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 48.1626 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT

SCALE: 1" = 20' | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Various	•	ST. CLAIR	49	46
		CONTRACT NO. 76086		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		