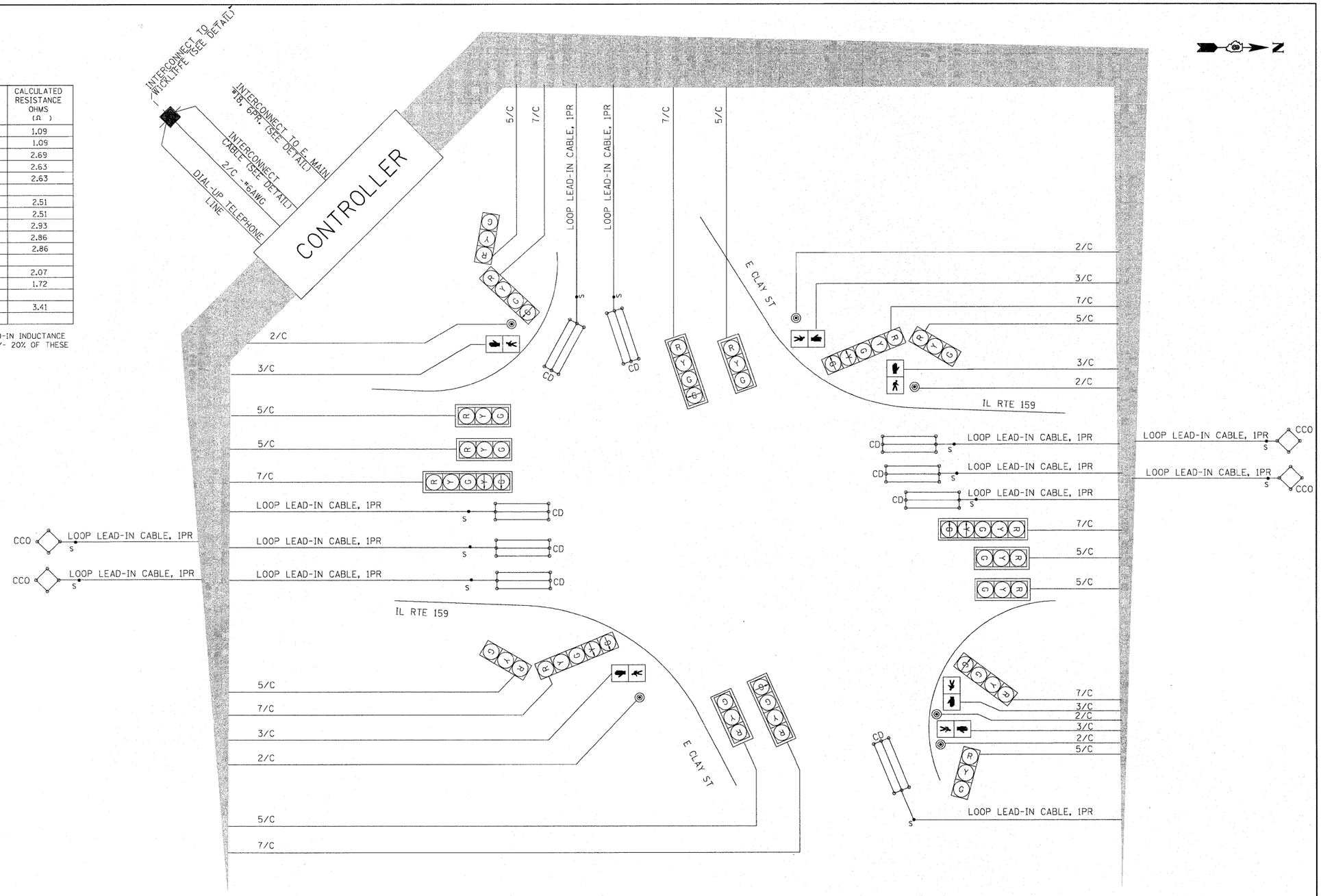
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL-159 AND E. CLAY ST.

LOOP	PHASE (Φ)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
NB CCO	6	6X6	4	141	1.09
NB CCO	6	6X6	4	141	1.09
NB LT TURN LN CD	1	6X50	3-6-3	834	2.69
NB THRU LN CD	6	6X50	3-6-3	831	2.63
NB THRU LN CD	6	6X50	3-6-3	831	2.63
SB CCO	2	6X6	6	349	2.51
SB CCO	2	6X6	6	349	2.51
SB LT TURN LN CD	5	6X50	3-6-3	845	2.93
SB THRU LN CD	2	6X50	3-6-3	842	2.86
SB THRU LN CD	2	6X50	3-6-3	842	2.86
EB THRU LN CD	3	6X50	3-6-3	807	2.07
EB RT TURN LN CD	3	6X40	3-6-3	655	1.72
WB CD	4	6X50	3-6-3	866	3.41

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



CABLE DIAGRAM LEGEND

——	ELECTRIC CABLE IN CONDUIT
—•S—	CABLE SPLICE
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
CD	CALL DELAY (SEE GENERAL NOTES)
CCO	CALL CARRY OVER (SEE GENERAL NOTES)
■	SERVICE INSTALLATION
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

FILE NAME = P:\Projects\51350\CADD\DGN\D876D54-sht-ts.dgn	USER NAME = default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 6/16/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM–E. CLAY STREET @ IL RTE. 159

SCALE: | SHEET NO. 7 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	60-(30,31,128) -N-1	MADISON	152	96
		CONTRACT NO. 76D54		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		