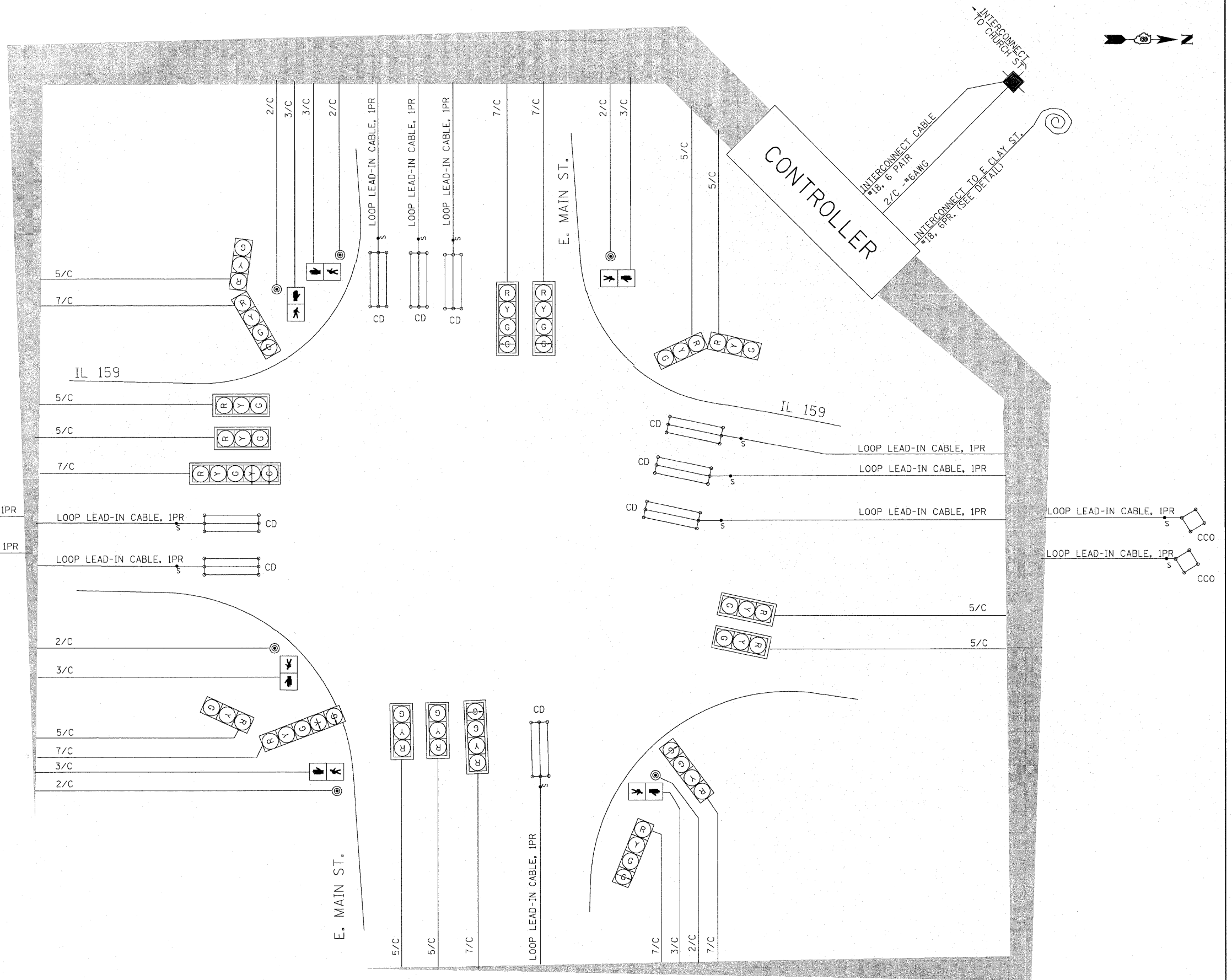
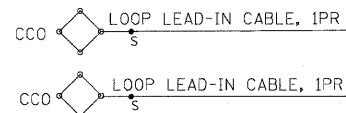


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS  
FOR IL-159 AND E. MAIN ST.

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
NB CCO	6	6X6	6	356	2.66
NB CCO	6	6X6	6	356	2.66
NB CD	6	6X50	3-6-3	858	3.24
NB CD	6	6X50	3-6-3	858	3.24
SB CCO	2	6X6	5	228	1.64
SB CCO	2	6X6	5	228	1.64
SB LT TURN LN CD	5	6X50	3-6-3	812	2.19
SB THRU LN CD	2	6X50	3-6-3	803	1.98
SB THRU LN CD	2	6X50	3-6-3	803	1.98
EB LT TURN LN CD	3	6X50	3-6-3	802	1.95
EB THRU LN CD	3	6X50	3-6-3	803	1.99
EB RT TURN LN CD	3	6X50	3-6-3	818	2.32
WB CD	4	6X50	3-6-3	832	2.65

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 =	USER NAME = default	DESIGNED -	REVISED -
P:\Projects\513521\CADD\GDN\0876054-sh1.tsd.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 6/16/2010	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM-E. MAIN STREET @ IL RTE. 159

SCALE: SHEET NO. 5 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	94
CONTRACT NO. 76D54				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				