

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 203 & FEHLING RD.

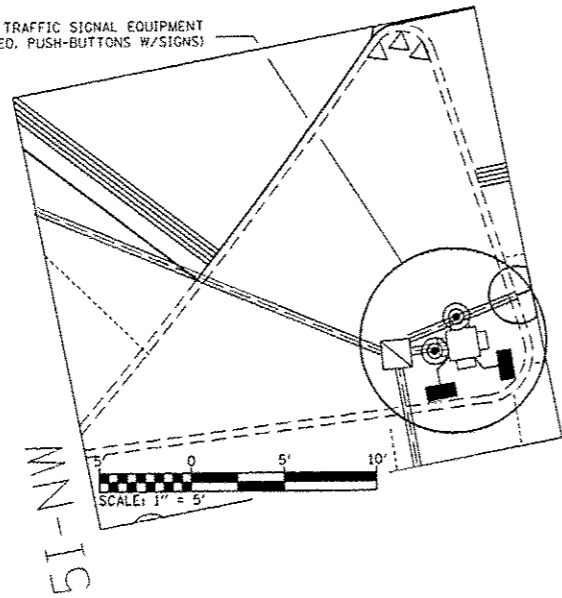
LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	3	6 X 50-0	3-6-3	826.5	2.5
2. EB THRU CD	3	6 X 50-0	3-6-3	824.1	2.5
3. EB RT CD	3	6 X 60-0	3-6-3	971.6	2.7
4. NB THRU-LT CD	1 & 6	6 X 50-0	3-6-3	809.5	2.1
5. WB LT CD	4	6 X 50-0	3-6-3	823.6	2.4
6. WB THRU CD	4	6 X 50-0	3-6-3	820.1	2.4
7. WB RT CD	4	6 X 50-0	3-6-3	819.6	2.3
8. SB THRU-LT CD	2 & 5	6 X 50-0	3-6-3	824.8	2.9

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

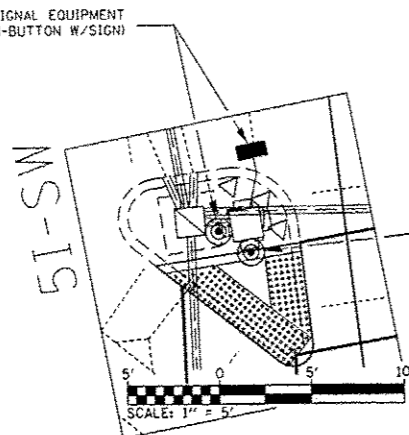
O=QUADRAPOLE

⊙=SEE DETAIL A

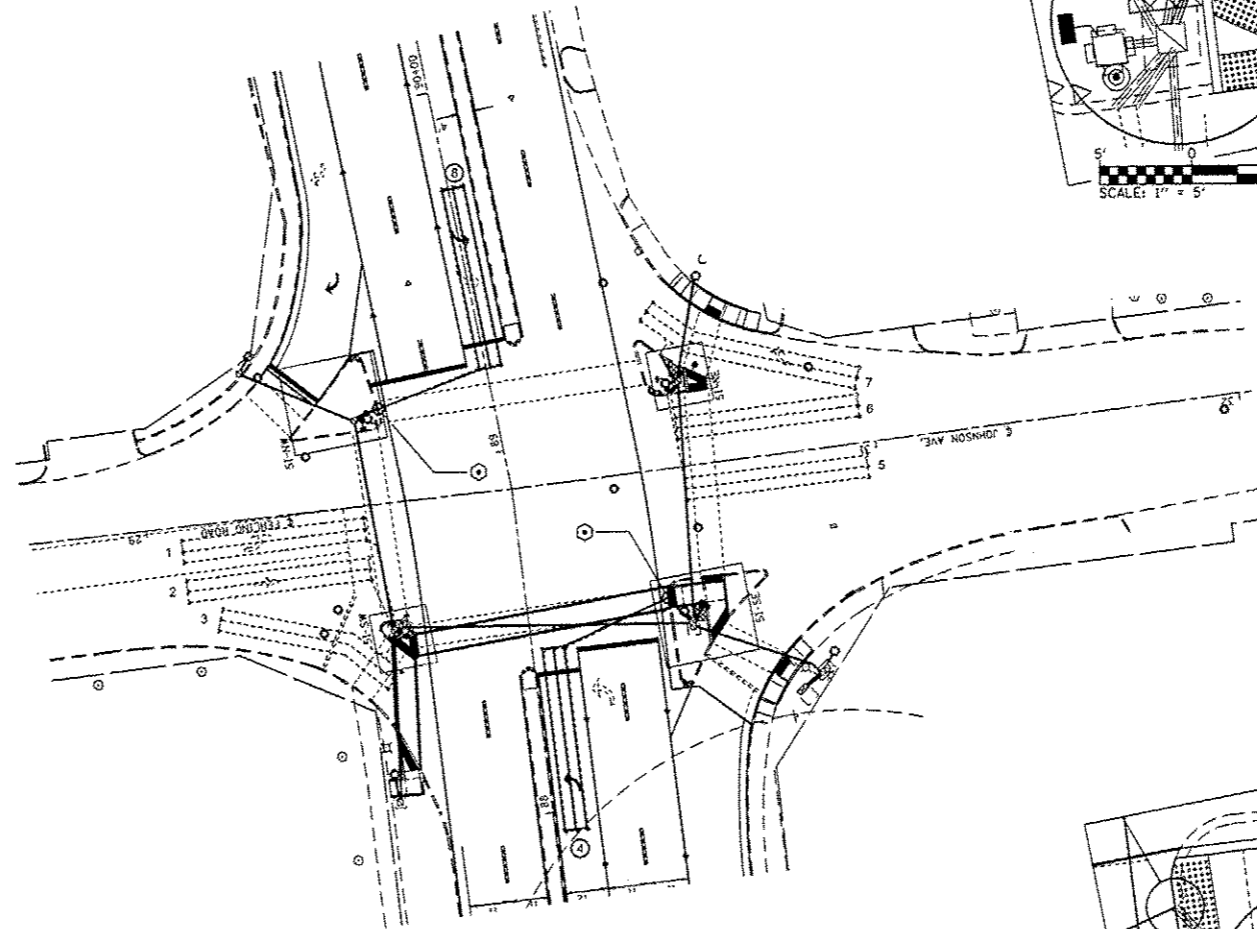
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (PED. SIGNAL HEADS AND PED. PUSH-BUTTONS W/SIGNS)



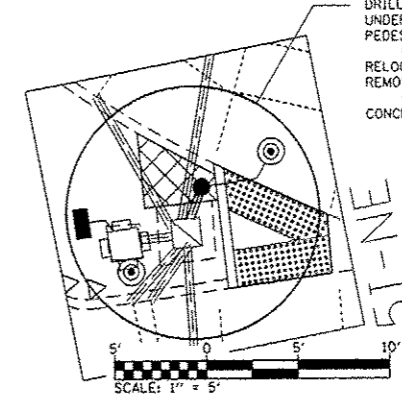
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (PED. SIGNAL HEAD AND PED. PUSH-BUTTON W/SIGN)



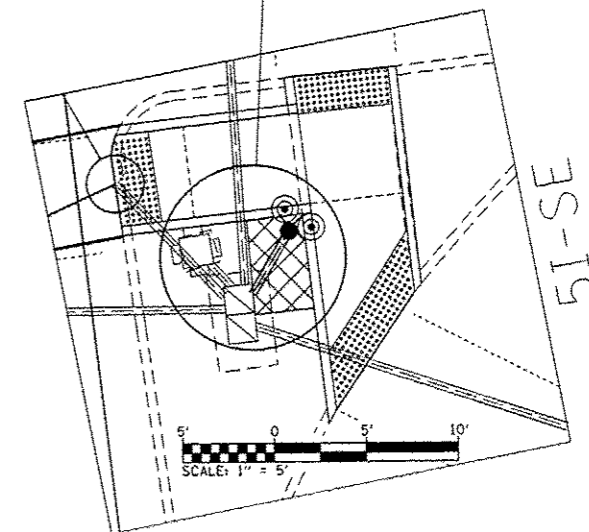
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON-1 EACH AFTER ADA SIDE WALK RAMP MODIFICATIONS PER STD. SPEC. ART. 895.02 AND STD. 876001-03



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (PED. SIGNAL HEAD AND PED. PUSH-BUTTON W/SIGN)
CONCRETE MEDIAN SURFACE REMOVAL-11 50 FT
DRILL EXISTING HANDHOLE-1 EACH
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.-5 FT
PEDESTRIAN PUSH-BUTTON POST,
GALVANIZED STEEL, TYPE I-1 EACH
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON-1 EACH
REMOVE AND REINSTALL ELECTRIC CABLE FROM
CONDUIT-16 FT
CONCRETE MEDIAN SURFACE, 4 INCH-11 50 FT

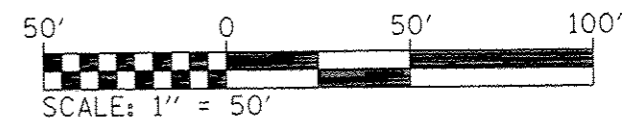


CONCRETE MEDIAN SURFACE REMOVAL-16 50 FT
DRILL EXISTING HANDHOLE-1 EACH
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.-5 FT
PEDESTRIAN PUSH-BUTTON POST,
GALVANIZED STEEL, TYPE I-1 EACH
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON-2 EACH
REMOVE AND REINSTALL ELECTRIC CABLE FROM
CONDUIT-16 FT
CONCRETE MEDIAN SURFACE, 4 INCH-16 50 FT



IL 203 & FEHLING RD.

REVISOR'S MARK: REVISED SHEET 7-23-14



FILE NAME =	USER NAME = prestonm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT & ADA T.S. MODIFICATION PLAN 3 OF 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ex:\pwork\pvidet\prestonm\08332083\0876g24-ah-15.dgn		DRAWN -	REVISED -			594	(X-3,X-2)RS-1	MADISON	52	48
PLOT SCALE = 5/8,000 1/4 in.		CHECKED -	REVISED -			CONTRACT NO. 76G24				
PLOT DATE = 5/20/2014		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	