

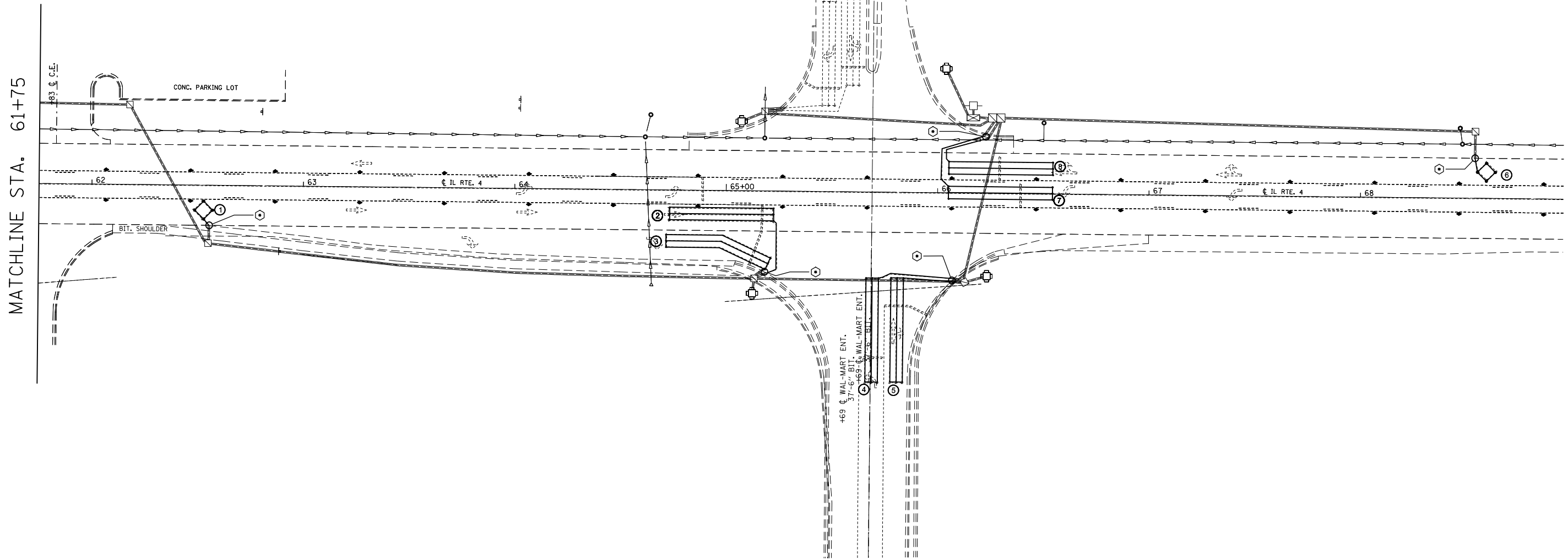
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 004 & WAL-MART ENTRANCE

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. NB CCO	2	6 X 6	6	360.7	2.8
2. NB THRU CD	5	6 X 50-Q	3-6-3	838.8	2.8
3. NB RT CD	2	6 X 50-Q	3-6-3	833.1	2.7
4. WB LT CD	4	6 X 50-Q	3-6-3	818.1	2.3
5. WB THRU CD	4	6 X 50-Q	3-6-3	815.3	2.3
6. SB CCO	6	6 X 6	6	311.2	1.6
7. SB LT CD	1	6 X 50-Q	3-6-3	798.8	1.9
8. SB THRU CD	6	6 X 50-Q	3-6-3	796.1	1.6
9. EB LT CD	3	6 X 50-Q	3-6-3	823.0	2.4
10. EB THRU CD	3	6 X 50-Q	3-6-3	818.3	2.3

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

Q=QUADRAPOLE

⊕ =SEE DETAIL A



IL 004 & WAL-MART ENTRANCE

FILE NAME =	USER NAME = burnsideem	DESIGNED -	REVISED -
et:\pw\work\p\idot\burnsideem\d0378703\876997-sht-tsp1an.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/11/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
2 OF 2

SCALE: SHEET NO. _ OF _ SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
682	21-IRS-4	RANDOLPH	24	16
CONTRACT NO. 76G97				
ILLINOIS FED. AID PROJECT				