FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
64	82-6K-1	ST. CLAIR	188	83

STA. _____ TO STA. _____

CONTRACT NO.: ~~76796~~ 76815

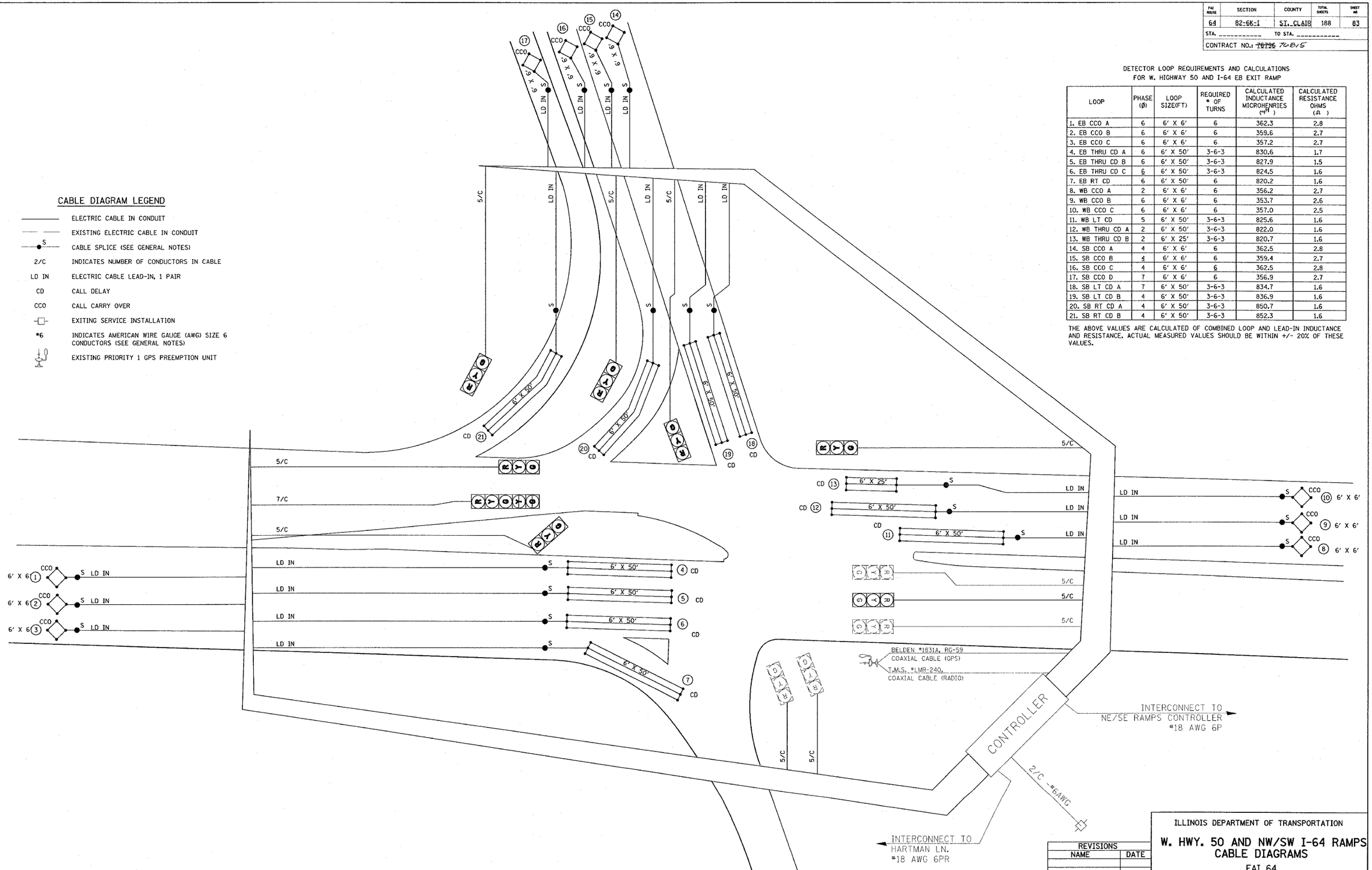
CABLE DIAGRAM LEGEND

———	ELECTRIC CABLE IN CONDUIT
— —	EXISTING ELECTRIC CABLE IN CONDUIT
—●S—	CABLE SPLICE (SEE GENERAL NOTES)
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
LD IN	ELECTRIC CABLE LEAD-IN, 1 PAIR
CD	CALL DELAY
CCO	CALL CARRY OVER
-□-	EXITING SERVICE INSTALLATION
#6	INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
	EXISTING PRIORITY 1 GPS PREEMPTION UNIT

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR W. HIGHWAY 50 AND I-64 EB EXIT RAMP

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (H)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO A	6	6' X 6'	6	362.3	2.8
2. EB CCO B	6	6' X 6'	6	359.6	2.7
3. EB CCO C	6	6' X 6'	6	357.2	2.7
4. EB THRU CD A	6	6' X 50'	3-6-3	830.6	1.7
5. EB THRU CD B	6	6' X 50'	3-6-3	827.9	1.5
6. EB THRU CD C	6	6' X 50'	3-6-3	824.5	1.6
7. EB RT CD	6	6' X 50'	6	820.2	1.6
8. WB CCO A	2	6' X 6'	6	356.2	2.7
9. WB CCO B	6	6' X 6'	6	353.7	2.6
10. WB CCO C	6	6' X 6'	6	357.0	2.5
11. WB LT CD	5	6' X 50'	3-6-3	825.6	1.6
12. WB THRU CD A	2	6' X 50'	3-6-3	822.0	1.6
13. WB THRU CD B	2	6' X 25'	3-6-3	820.7	1.6
14. SB CCO A	4	6' X 6'	6	362.5	2.8
15. SB CCO B	4	6' X 6'	6	359.4	2.7
16. SB CCO C	4	6' X 6'	6	362.5	2.8
17. SB CCO D	7	6' X 6'	6	356.9	2.7
18. SB LT CD A	7	6' X 50'	3-6-3	834.7	1.6
19. SB LT CD B	4	6' X 50'	3-6-3	836.9	1.6
20. SB RT CD A	4	6' X 50'	3-6-3	850.7	1.6
21. SB RT CD B	4	6' X 50'	3-6-3	852.3	1.6

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

W. HWY. 50 AND NW/SW I-64 RAMPS CABLE DIAGRAMS

FAI 64
SECTION 82-6K-1
ST. CLAIR COUNTY

DRAWN BY:

PLOT DATE: 7/1/2005

PLAN | NOTE BOOK NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

$$DATE$$
7/1/2005
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