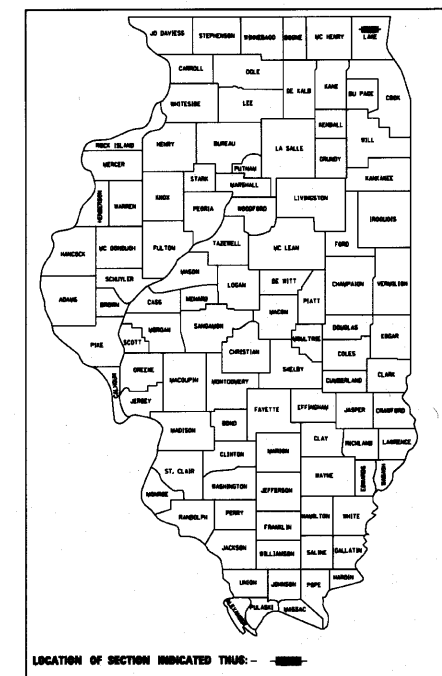


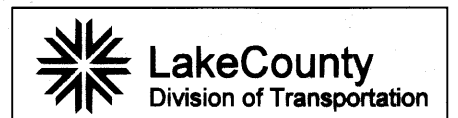
F.A.C. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
181	09-0099-07-TL	LAKE	72	1
		ILLINOIS	CONTRACT NO. 63472	



LOCATION OF SECTION INDICATED THUS: —

**IDOT STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-05 CURB RAMPS FOR SIDEWALK
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, >15' AWAY
- 701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701101-02 OFF-ROAD OPERATIONS MULTILANE 15' TO 24' FROM PAVEMENT EDGE
- 701011-02 OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701301-04 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701502-08 URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
- 701602-05 URBAN LANE CLOSURE, MULTILANE 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701606-07 URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
- 701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNT DETAILS
- 814001-02 HANDHOLE
- 814006-02 DOUBLE HANDHOLE
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING
- 877001-04 STEEL MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55'
- 877011-04 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 16' THROUGH 55'
- 878001-08 CONCRETE FOUNDATION DETAILS
- 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: *October 13, 2010*  
*Mark A. Suller*  
LAKE COUNTY DIVISION OF TRANSPORTATION  
DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER

PASSED: *NOVEMBER 9, 2010*  
*Chris A. Charnick*  
DISTRICT 1 ENGINEER OF LOCAL STREETS & ROADS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW: *11-4-2010*  
*Jim Oll*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

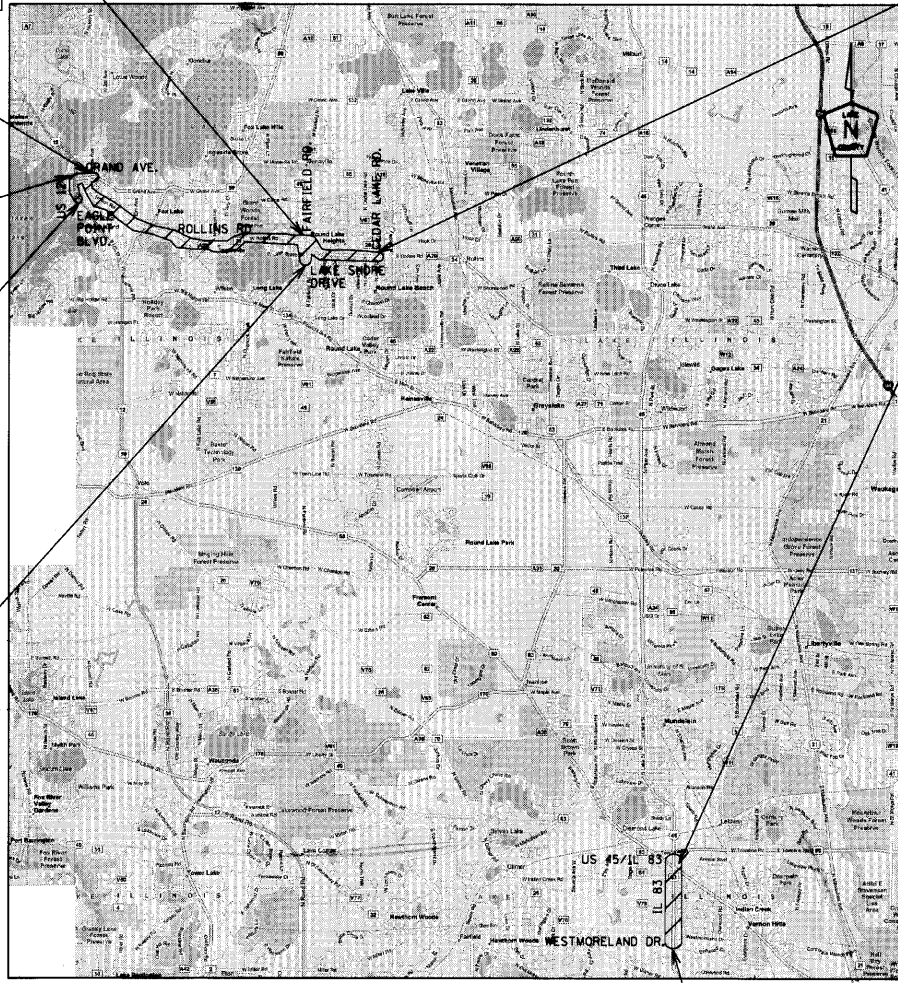
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

TRAFFIC SIGNAL MODERIZATION AND FIBER OPTIC COMMUNICATION SYSTEM  
CONGESTION MITIGATION AND AIR QUALITY  
FAU 181 (ROLLINS RD.) FROM US 12 TO LOTUS DR.  
FAP 344 (IL 83) US 45 TO WESTMORELAND DR.  
FEDERAL PROJECT NO. CMM-9003(527)  
SECTION 09-0099-07-TL  
LAKE COUNTY DIVISION OF TRANSPORTATION  
JOB NO. C-91-166-10

**INDEX OF SHEETS**

SHEET	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	MAP OF LOCATIONS
4	INSTALLATION LOCATIONS
5 - 6	SUMMARY OF QUANTITIES
7	FIBER OPTIC TERMINATIONS/SPLICES
8 - 13	IDOT DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
INTERSECTION INSTALLATION LOCATIONS	
14 - 17	ROLLINS RD. @ GRAND AVE.
18 - 21	ROLLINS RD. @ FAIRFIELD RD.
22 - 26	ROLLINS RD. @ LOTUS DR.
27 - 28	ROLLINS RD. @ WASHINGTON ST.
29 - 30	ROLLINS RD. @ WILSON RD.
31 - 32	US 12 (RAND RD.) @ GRAND AVE.
33 - 34	US 12 (RAND RD.) @ EAGLE POINT RD./SAYTON RD.
35 - 36	FAIRFIELD RD. @ LAKE SHORE DR.
37	ROLLINS RD. @ DRURY LN.
38	ROLLINS RD. @ IL 83
39 - 40	IL 83 @ WESTMORELAND DR.
41 - 42	IL 60 @ DIAMOND LAKE RD.
INTERCONNECT INSTALLATION LOCATIONS	
43	US 12 FROM EAGLE PT RD./SAYTON RD. TO GRAND AVE.
44	GRAND AVE. FROM US 12 TO ROLLINS RD.
45 - 54	ROLLINS RD. FROM GRAND AVE. TO CEDAR LAKE RD.
55	ROLLINS RD. FROM HAINESVILLE RD. TO IL 83
56-58	IL 83 FROM WESTMORELAND RD. TO US 45
59 - 61	SCHEMATICS
62 - 69	FIBER DIAGRAMS
70 - 72	DETAILS

LOCATION MAP (NOT TO SCALE)



BEGIN PROJECT  
FAIRFIELD RD. FROM  
ROLLINS RD.  
STA. 79+50

END PROJECT  
ROLLINS RD. TO  
CEDAR LAKE RD.  
STA. 207+00

BEGIN PROJECT  
ROLLINS RD. FROM  
GRAND AVE.  
STA. 0+00

END PROJECT  
US 12 TO  
GRAND AVE.  
STA. 62+00

BEGIN PROJECT  
US 12 FROM  
EAGLE POINT BLVD  
STA. 45+50

BEGIN PROJECT  
IL 83 FROM  
US 45/IL 83  
STA. 345+00

END PROJECT  
FAIRFIELD RD. TO  
LAKE SHORE DR.  
STA. 57+50

END PROJECT  
IL 83 TO  
WESTMORELAND RD.  
STA. 281+00

THIS PROJECT IS LOCATED IN THE VILLAGE(S) OF: FOX LAKE  
ROUND LAKE HEIGHTS  
ROUND LAKE BEACH  
VERNON HILLS

TOWNSHIP(S) OF: GRANT  
AVON  
VERNON

**TRAFFIC DATA:**

POSTED SPEED:  
US 12  
BETWEEN EAGLE PT. & GRAND AVE. = 35 MPH  
ROLLINS RD.  
BETWEEN GRAND AVE. & WILSON RD. = 35 MPH  
BETWEEN WILSON RD. & FAIRFIELD RD. = 40 MPH  
WEST OF LAKE SHORE DR. = 40 MPH  
EAST OF LAKE SHORE DR. = 30 MPH  
WEST OF GOLDENROD TERRACE = 30 MPH  
EAST OF GOLDENROD TERRACE TO CEDAR LAKE RD. = 40 MPH

**ADT:**

23,900 BETWEEN EAGLE PT. & GRAND AVE. (US 12)  
6,400 BETWEEN GRAND AVE. & SAYTON RD. (ROLLINS RD.)  
8,500 BETWEEN SAYTON RD. & IL 59 (ROLLINS RD.)  
11,400 BETWEEN IL 59 & WILSON RD. (ROLLINS RD.)  
12,600 BETWEEN WILSON RD. & FAIRFIELD RD. (ROLLINS RD.)  
15,700 BETWEEN FAIRFIELD RD. & LOTUS DR. (ROLLINS RD.)  
23,900 BETWEEN LOTUS DR. & CEDAR LAKE RD. (ROLLINS RD.)

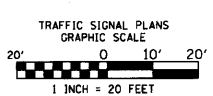
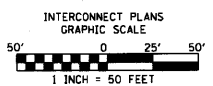
FUNCTIONAL CLASSIFICATION: ARTERIAL (US 12)  
ARTERIAL (ROLLINS RD.)

**CONTRACT NO. 63472**

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



GROSS LENGTH = 50,250 FT. = 9.54 MILES  
NET LENGTH = 37,328 FT. = 7.45 MILES

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 Schaumburg, IL



656 E. ALGONQUIN RD.  
SCHAUMBURG, IL 60173  
PHONE: 847-925-8128  
FAX: 847-925-8148

ILLINOIS REGISTRATION NO. 062-047371  
EXPIRATION DATE: 11/30/2011  
PROFESSIONAL DESIGN FIRM NO. 184-000919



DRAWN BY: *Douglas J. Brazelton*  
DATE: OCTOBER 13, 2010