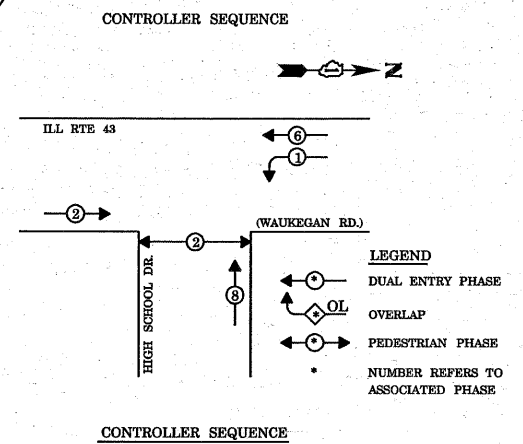
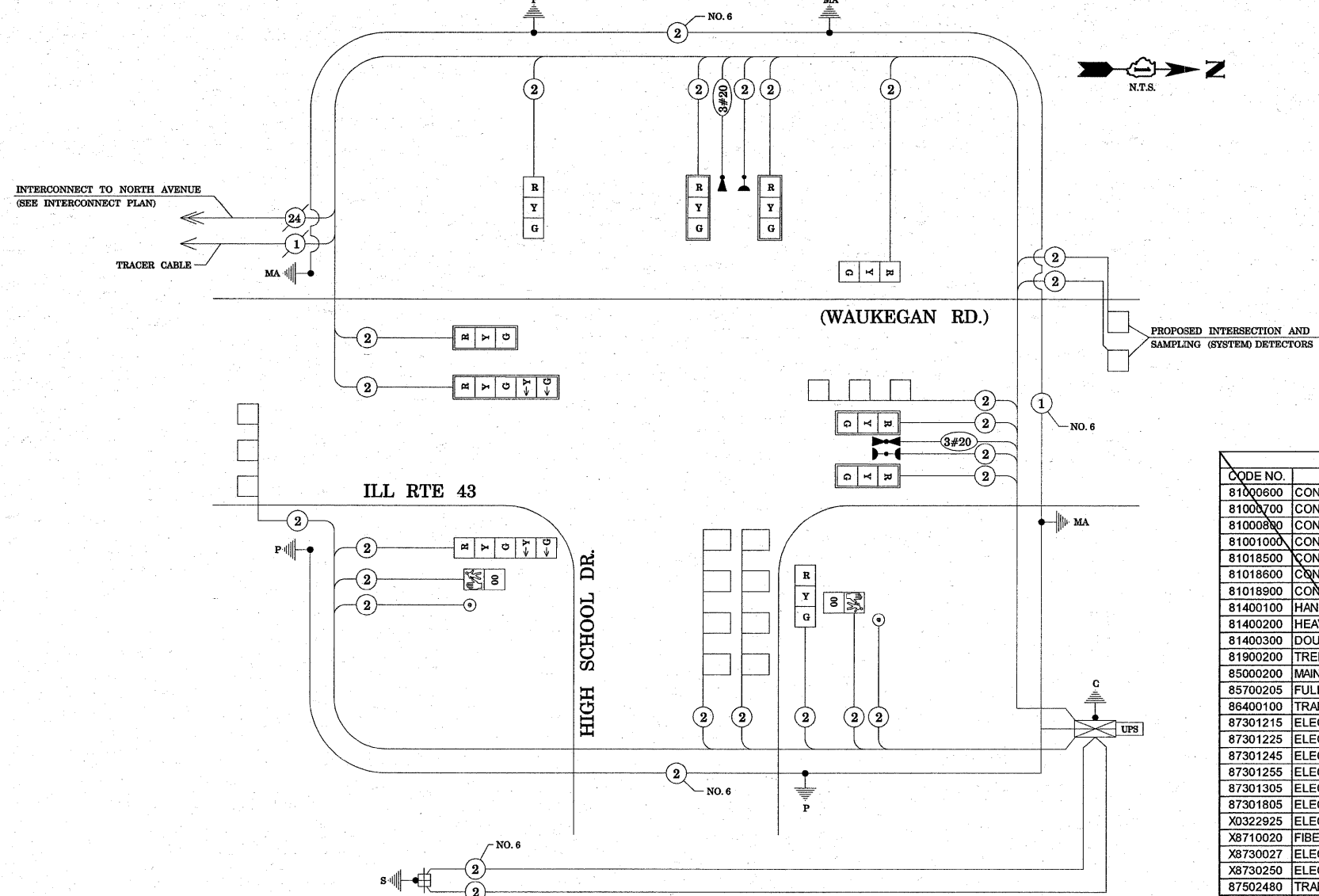


FOR INFORMATION ONLY

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
□	□	8" (200mm) TRAFFIC SIGNAL SECTION
□	□	12" (300mm) TRAFFIC SIGNAL SECTION
□	□	12" (300mm) PEDESTRIAN SIGNAL SECTION
□	□	12" (300mm) PEDESTRIAN SIGNAL SECTION W/COUNTDOWN TIMER
□	□	CONTROLLER CABINET
□	□	SERVICE INSTALLATION
□	□	TELEPHONE INSTALLATION
□	□	VEHICLE DETECTOR, INDUCTION LOOP
□	□	MAGNETIC DETECTOR
□	□	EMERGENCY VEHICLE LIGHT DETECTOR
□	□	CONFIRMATION BEACON
□	□	PUSHBUTTON DETECTOR
□	□	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
□	□	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
□	□	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
□	□	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
□	□	RAILROAD CONTROL CABINET
□	□	ILLUMINATED SIGN "NO LEFT TURN"
□	□	ILLUMINATED SIGN "NO RIGHT TURN"
□	□	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
□	□	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
□	□	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
□	□	UNINTERRUPTIBLE POWER SUPPLY



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL
81000800	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1773
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	43
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	95
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	477
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	27
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	186
81400100	HANDHOLE	EACH	8
81400200	HEAVY-DUTY HANDHOLE	EACH	1
81400300	DOUBLE HANDHOLE	EACH	1
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1310
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
86400100	TRANSCIVER-FIBER OPTIC	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	208
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	485
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1191
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	432
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1320
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	259
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	1460
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1460
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	381
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	259
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
87700160	STEEL MAST ARM AND ASSEMBLY AND POLE, 24 FT.	EACH	1
87700210	STEEL MAST ARM AND ASSEMBLY AND POLE, 34 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800400	CONCRETE FOUNDATION, TYPE E-30 INCH DIAMETER	FOOT	10
87800415	CONCRETE FOUNDATION, TYPE E-36 INCH DIAMETER	FOOT	22
87900200	DRILL EXISTING HANDHOLE	EACH	1
88030020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
88030050	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
88030100	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88030110	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	6
88600100	DETECTOR LOOP, TYPE I	FOOT	586
88700200	LIGHT DETECTOR	EACH	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4076
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	9
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
	SERVICE INSTALLATION, GROUND MOUNT	EACH	1
	UNINTERRUPTIBLE POWER SUPPLY	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	17	0.50	0.50	85.0
(YELLOW)	10	25	0.25	0.25	62.5
(GREEN)	10	15	0.25	0.25	37.5
ARROW	4	12	0.10	0.10	4.8
PED. SIGNAL	2	25	1.00	1.00	50.0
CONTROLLER	1	100	1.00	1.00	100.0

ENERGY COSTS TO: TOTAL = 339.8

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT, SCHALMBURG, ILLINOIS 60196-1096

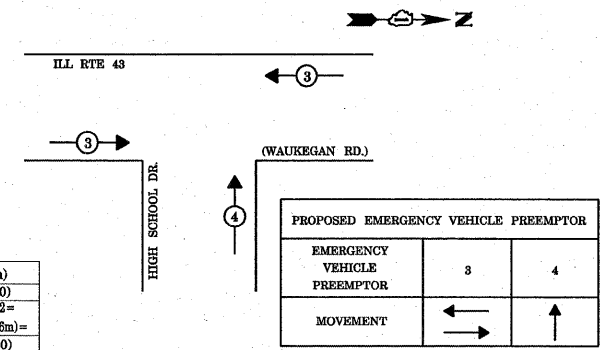
ENERGY SUPPLY CONTACT: CINDY BIAGGI
PHONE: (847) 816-5322
COMPANY: COMED

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
C - M. ARM POLE		SIGNAL POST	2 (1.0)		(8m+L-0.6m)=
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

CABLE PLAN

EMERGENCY VEHICLE PREEMPTION SEQUENCE



SUMMARY OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM

ILL RTE 43 (WAUKEGAN RD.) AT HIGH SCHOOL DRIVE
DEERFIELD, ILLINOIS

NO.	BY	DATE	REVISION
3	PBS	12-4-07	PER IDOT REVIEW COMMENTS
1	CAD	6-22-07	PER IDOT REVIEW COMMENTS

FILE: g:\gms\3818\3818.dwg	SHEET NUMBER:
DRAWN BY: TCM DATE: 9/18/07	GHA PROJECT # 3818.800
CHECKED BY: KLB DATE: 9/18/07	SCALE: N.T.S.
	17 OF 29 SHEETS