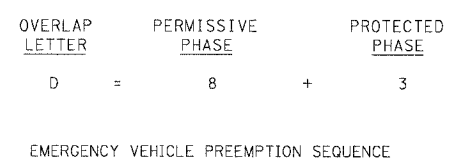
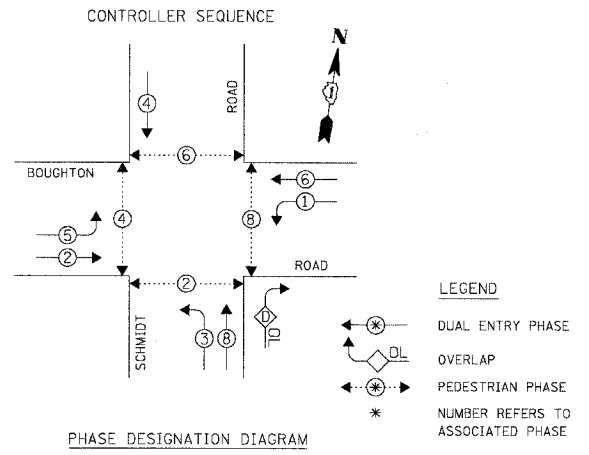


F.A.I.D. SECTION COUNTY TOTAL SHEETS SHEET NO.	3580 D4-00043-00-TL WILL 54 18
STA. TO STA.	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
CONTRACT NO. B3855	

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, STANDARD	EACH	1

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



EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND. LED X % OPERATION		
SIGNAL (RED)	16	17	0.50	136.00
(YELLOW)	16	25	0.25	100.00
(GREEN)	16	15	0.25	60.00
ARROW	20	12	0.10	24.00
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	25	0.05	-
LUMINAIRE	4	250	0.50	500.00
ILLUM. ST. NAME SIGN	4	60	0.50	120.00
FLASHER	-	-	0.50	-
TOTAL =				1240.00

ENERGY COSTS TO: TOTAL = 1240.00

**VILLAGE OF BOLINGBROOK**  
 375 BRIARCLIFF ROAD  
 BOLINGBROOK, ILLINOIS 60440-0951

ENERGY SUPPLY: CONTACT: DALE BOLLINGER  
 PHONE: (815) 724-5717  
 COMPANY: COMED

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"
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m ± L-0.6m) ±
		24" (600mm)	10 (3.0)	CONTROLLER CAB.	13 (4.0)
		30" (750mm)	15 (4.6)	FIBER OPTIC	4 (1.2)
		36" (900mm)	15 (4.6)	ELECTRIC SERVICE	13.5 (4.1)
				GROUND CABLE	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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

CONSTRUCTION NOTES:  
 ① INSTALL NEW FIBER OPTIC TRANSCEIVER AND TECH-POWER M-E SERIES UPS.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM**

BOUGHTON ROAD AND SCHMIDT ROAD  
 BOLINGBROOK, ILLINOIS

SCALE: N.T.S. DATE: 4/7/2006

DRAWN BY: FCP/FPB  
 DESIGNED BY: MKW  
 CHECKED BY: MJT

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PLAN: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PROFILE: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

STRUCTURE: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

STRUCTURE: \_\_\_\_\_

CHRISTOPHER B. BURKE ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500