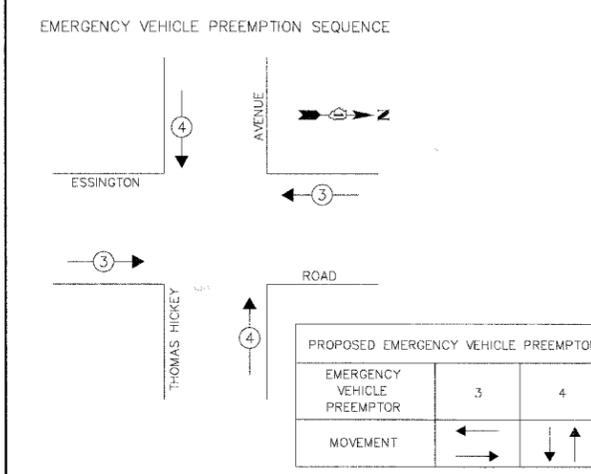
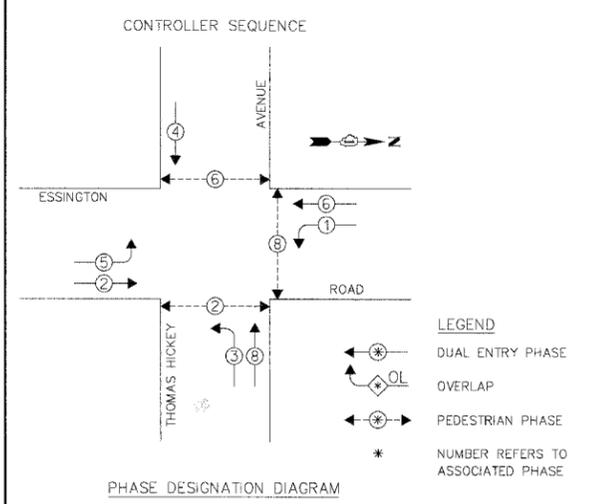
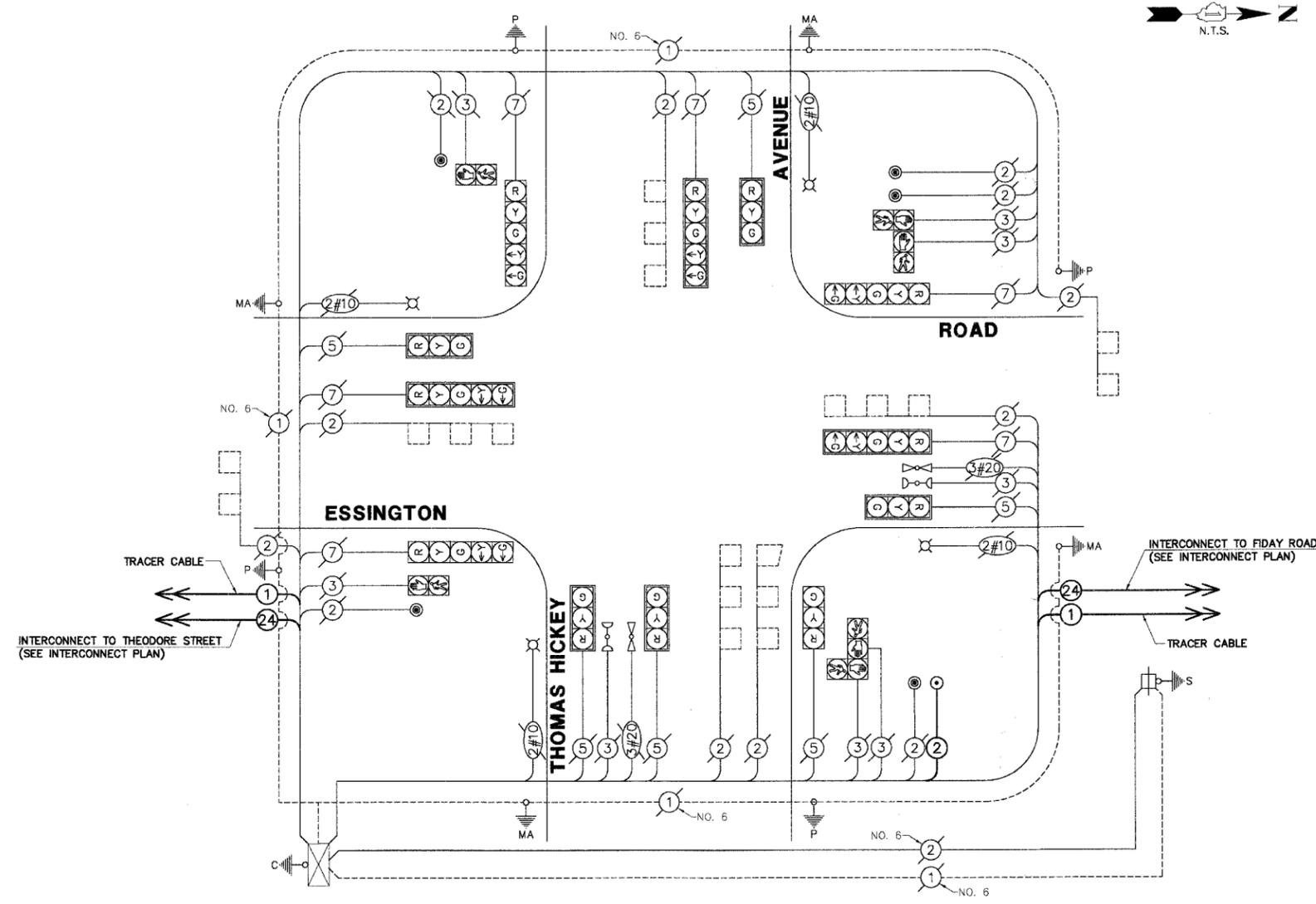


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	05-00395-00-TL	WILL	31	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO: 83992				



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 SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**CABLE PLAN**



**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
⊠	⊠	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
⊠	⊠	⊠ RADIO ANTENNA
⊠	⊠	⊠ COAXIAL CABLE

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135		0.50	810.0
(YELLOW)	12	135		0.25	405.0
(GREEN)	12	135		0.25	405.0
ARROW	12	135		0.10	162.0
PED. SIGNAL	6	90		1.00	540.0
CONTROLLER	1	100		1.00	100.0
TOTAL =					2422.0

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE."

**ESSINGTON ROAD AT THOMAS HICKEY AVENUE SCHEDULE OF INTERSECTION QUANTITIES**

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE I	SQ FT	0.24
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCIVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	96
PEDESTRIAN PUSHBUTTON	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1

ENERGY COSTS TO: TOTAL = 2422.0

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

ENERGY SUPPLY: CONTACT: BETTY BRULC  
 PHONE: (815) 724-5052  
 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=
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)

PLANS PREPARED BY:  
**GEWALT HAMILTON ASSOCIATES, INC.**  
 Consulting Engineers & Surveyors  
 850 Forest Edge Drive  
 Vernon Hills, IL 60061  
 (847) 478-9700  
 (847) 478-9701 Fax

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM**

**ESSINGTON ROAD AT THOMAS HICKEY AVE. JOLIET, ILLINOIS**

SCALE: N.T.S.  
 DATE: DECEMBER 7, 2007

DRAWN BY: LB  
 DESIGNED BY: TCM  
 CHECKED BY: BLS