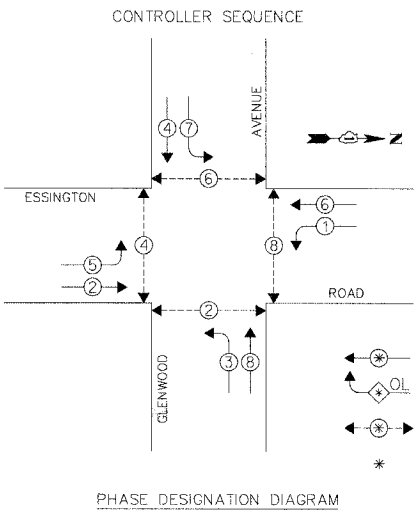
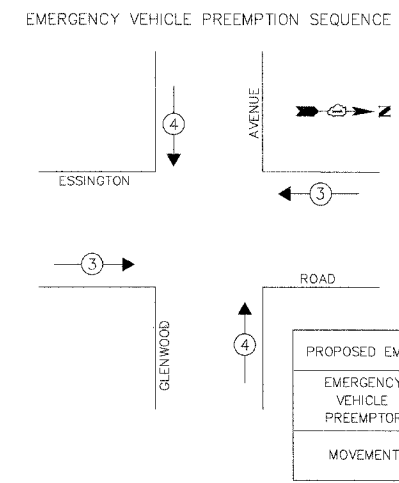


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	05-00395-00-TL	WILL	31	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO: 83992				

CABLE PLAN



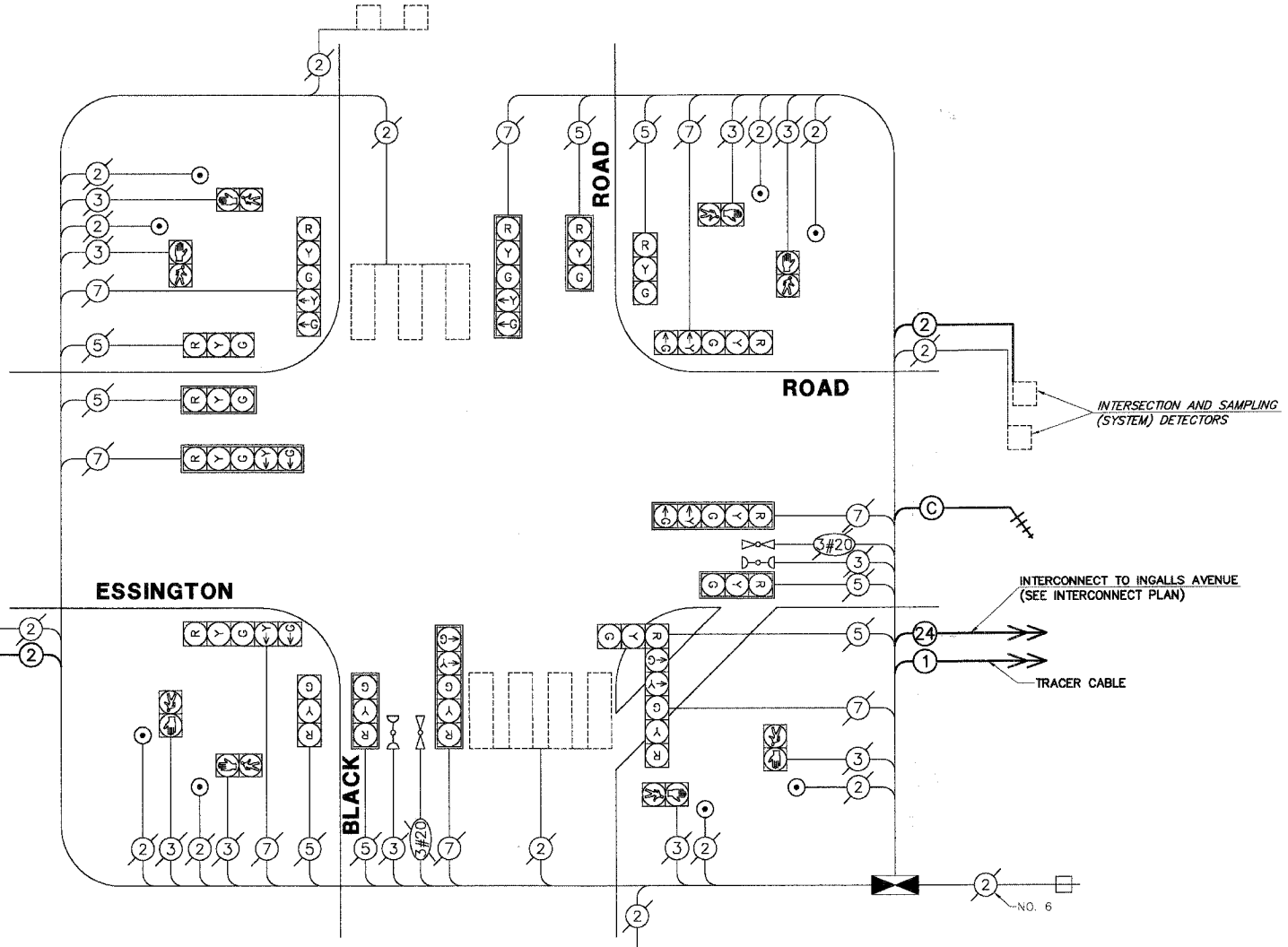
- LEGEND**
- DUAL ENTRY PHASE
 - OVERLAP
 - PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

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.

INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



- CABLE PLAN LEGEND**
- | | |
|--|---|
| | 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 |
| | 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | 24 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" |
| | G/C GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | P GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | RA Radio ANTENNA |
| | C COAXIAL CABLE |

TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135		0.50	1080.0
(YELLOW)	16	135		0.25	540.0
(GREEN)	16	135		0.25	540.0
ARROW	16	135		0.10	216.0
PED. SIGNAL	8	90		1.00	720.0
CONTROLLER	1	100		1.00	100.0
TOTAL =					3196.0

NEW CABINETS SHALL HAVE FRONT AND BACK DOORS AND A SEPARATE CIRCUIT BREAKER FOR STREET LIGHTING.

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

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE I	SQ FT	1.94
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL	EACH	1
TRANSCIVER	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	645
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	97
INDUCTIVE LOOP DETECTOR	EACH	8
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSHBUTTON	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	97
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT	1

ENERGY COSTS TO: TOTAL = 3196.0
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)		(6m+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

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 ESSINGTON ROAD AT BLACK ROAD
 JOLIET, ILLINOIS
 SCALE: N.T.S.
 DATE: DECEMBER 7, 2007
 DRAWN BY: LB
 DESIGNED BY: TCM
 CHECKED BY: BLS