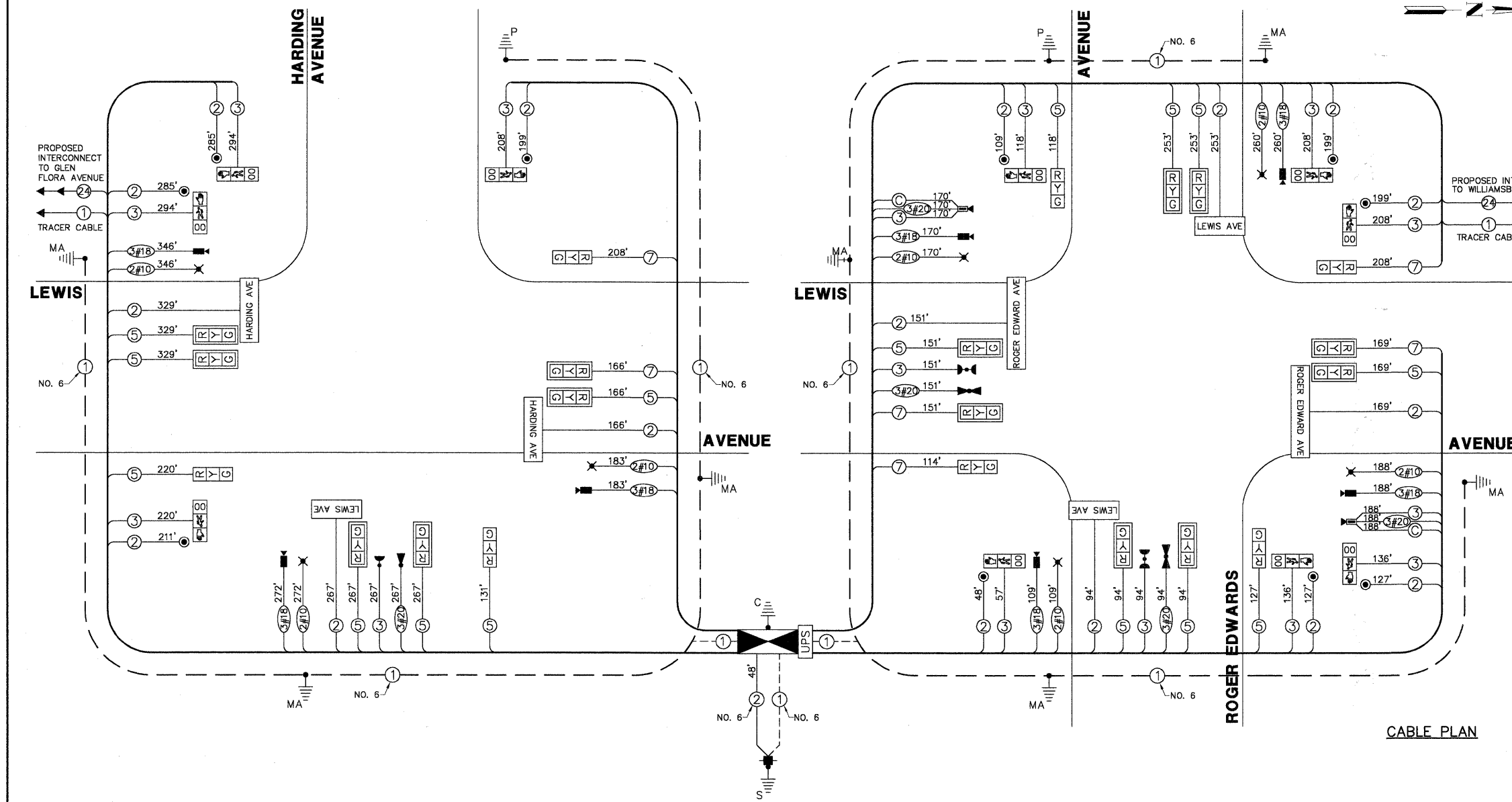


**CABLE PLAN LEGEND**

- |  |                 |  |                 |   |
|--|-----------------|--|-----------------|---|
|  | <b>EXISTING</b> |  | <b>PROPOSED</b> | 12" TRAFFIC SIGNAL SECTION  |
|  |                 |  |                 | 12" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER  |
|  |                 |  |                 | CONTROLLER CABINET  |
|  |                 |  |                 | SERVICE INSTALLATION  |
|  |                 |  |                 | TELEPHONE INSTALLATION  |
|  |                 |  |                 | VEHICLE DETECTOR, INDUCTION LOOP  |
|  |                 |  |                 | 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, 24 SINGLEMODE   |
|  |                 |  |                 | 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   |
|  |                 |  |                 | BELDEN 1694A RG-6/4 COAXIAL CABLE   |
|  |                 |  |                 | ISDN LINE   |
|  |                 |  |                 | LUMINAIRE   |
|  |                 |  |                 | VIDEO DETECTION CAMERA  |
|  |                 |  |                 | PTZ CAMERA  |
|  |                 |  |                 | VIDEO COMMUNICATIONS CABINET  |
|  |                 |  |                 | L.E.D. STREET NAME SIGN   |
|  |                 |  |                 | UNINTERRUPTIBLE POWER SUPPLY  |

**CABLE PLAN**



L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	21	135	10	0.50	105.0
SIGNAL (YELLOW)	21	135	19	0.10	39.9
SIGNAL (GREEN)	21	135	11	0.40	92.4
ARROW	-	135	9	-	-
RED SIGNAL	8	90	9	1.00	72.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	7	-	250	0.50	875.0
L.E.D. ST. NAME SIGN	7	-	64	0.50	224.0
VIDEO SYSTEM	1	-	150	1.00	150.0
BATTERY BACKUP	1	-	25	1.00	250.0
<b>TOTAL =</b>					<b>1,908.3</b>

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

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
TYPE D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (LT) POLE	20'+1-2'
TYPE E - M.ARM POLE	15	SIGNAL POST	2	BRACKET MOUNTED	13
		CONTROLLER CAB.	1	PED. PUSHBUTTON	4
		FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

ENERGY COSTS - BILLED TO: CITY OF WAUKEGAN (ADDRESS) 100 N. M.L.K. JR. AVENUE (ADDRESS) WAUKEGAN, IL  
 ENERGY SUPPLY - CONTACT: NEW BUSINESS PHONE: (886) 639-3552 COMPANY: COM-ED, LIBERTYVILLE

FILE NAME = 4135.315-TR1.dwg  
 USER NAME = GHA

DESIGNED - JRD  
 DRAWN - ZCW  
 CHECKED - DPB  
 DATE - 10/19/09

REVISED - 9/15/09 (LCDOT)  
 REVISED - 9/25/09 (IDOT)  
 REVISED - 10/19/09 (LCDOT)  
 REVISED -



**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES (SHEET 1 OF 2)**  
**LEWIS AVENUE AT HARDING AVENUE/ROGER EDWARDS AVENUE**

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2730	08-00259-00-TL	LAKE	86	39
CONTRACT #:			63344	

GHA #4135.800