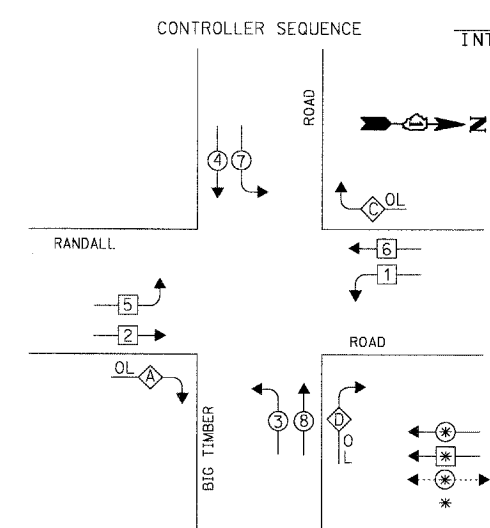


SURVEYED BY: [] DATE: []
 P.L.A.N. NO. []
 CHECKED BY: []
 DESIGNED BY: []
 DATE: []
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Highline Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500
 C.B.E.
 DATE: [] BY: []
 SURVEYED BY: [] DATE: []
 CHECKED BY: []
 DESIGNED BY: []
 DATE: []
 STRUCTURE NOTATION: CHFD



LEGEND
 * DUAL ENTRY PHASE
 ○ SINGLE ENTRY PHASE
 ○ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

OVERLAP LETTER	PROTECTED PHASE	PERMISSIVE PHASE	EXISTING SYSTEM AND INTERSECTION LOOPS
A	3	2	
C	7	6	
D	1	8	

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.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED X % OPERATION		
SIGNAL (RED)	18	17	0.50	153.00	
(YELLOW)	18	25	0.25	112.50	
(GREEN)	18	15	0.25	67.50	
ARROW	20	12	0.10	24.00	
PED. SIGNAL	-	25	1.00	-	
CONTROLLER	1	100	1.00	100.00	
ILLUM. SIGN	-	25	0.05	-	
VIDEO SYSTEM	1	-	150	150.00	
FLASHER	-	-	0.50	-	

ENERGY COSTS TO: TOTAL = 607.00
KANE COUNTY DIVISION OF TRANSPORTATION
 41W011 BURLINGTON ROAD
 ST. CHARLES, IL 60175
 ENERGY SUPPLY: CONTACT: MIKE WIDHALM
 PHONE: (847) 608-2376
 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'-4L-2' = (6m+L-0.6m)
E - M. ARM POLE	2 (0.6)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

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-MMI2F SM12F
○	○	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F SM24F
□	□	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
□	□	RAILROAD CONTROL CABINET
□	□	ILLUMINATED SIGN "NO LEFT TURN"
□	□	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS	UPS	UNINTERRUPTIBLE POWER SUPPLY
V	V	VENDOR SPECIFIC CABLE
DC	DC	DOME CAMERA (PAN/TILT/ZOOM)
□	□	VIDEO DETECTION CAMERA

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1
ETHERNET KIT	EACH	1
CONFLICT MONITOR	EACH	1

- CONSTRUCTION NOTES:**
- REPLACE EXISTING CONTROLLER AND CONFLICT MONITOR.
 - INSTALL ETHERNET KIT.
 - INSTALL UPS UNIT IN SIDE MOUNTED CABINET ATTACHED TO EXISTING TRAFFIC SIGNAL CABINET.
 - INSTALL PTZ CAMERA ON THE COMBINATION MAST ARM POLE IN THE NORTHWEST CORNER.