

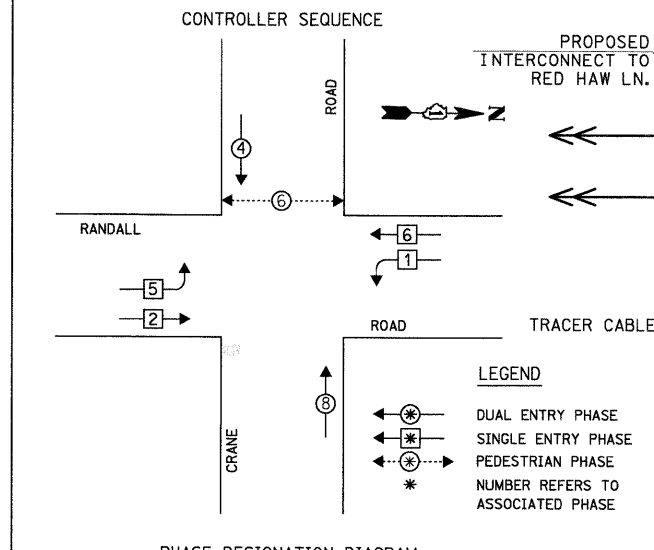
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**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 9515 West Higgins Road, Suite 600  
 Chicago, Illinois 60638  
 (847) 823-0500



- CONSTRUCTION NOTES:**
- INSTALL ETHERNET KIT.
  - INSTALL UPS UNIT IN SIDE MOUNTED CABINET ATTACHED TO TRAFFIC SIGNAL CABINET.

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 SEEDD IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE 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	-	12	0.10	-
PED. SIGNAL	2	25	1.00	50.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	25	0.05	-
VIDEO SYSTEM	1	150	1.00	150.00
LUMINAIRE	2	310	0.50	310.00
FLASHER	-	-	0.50	-

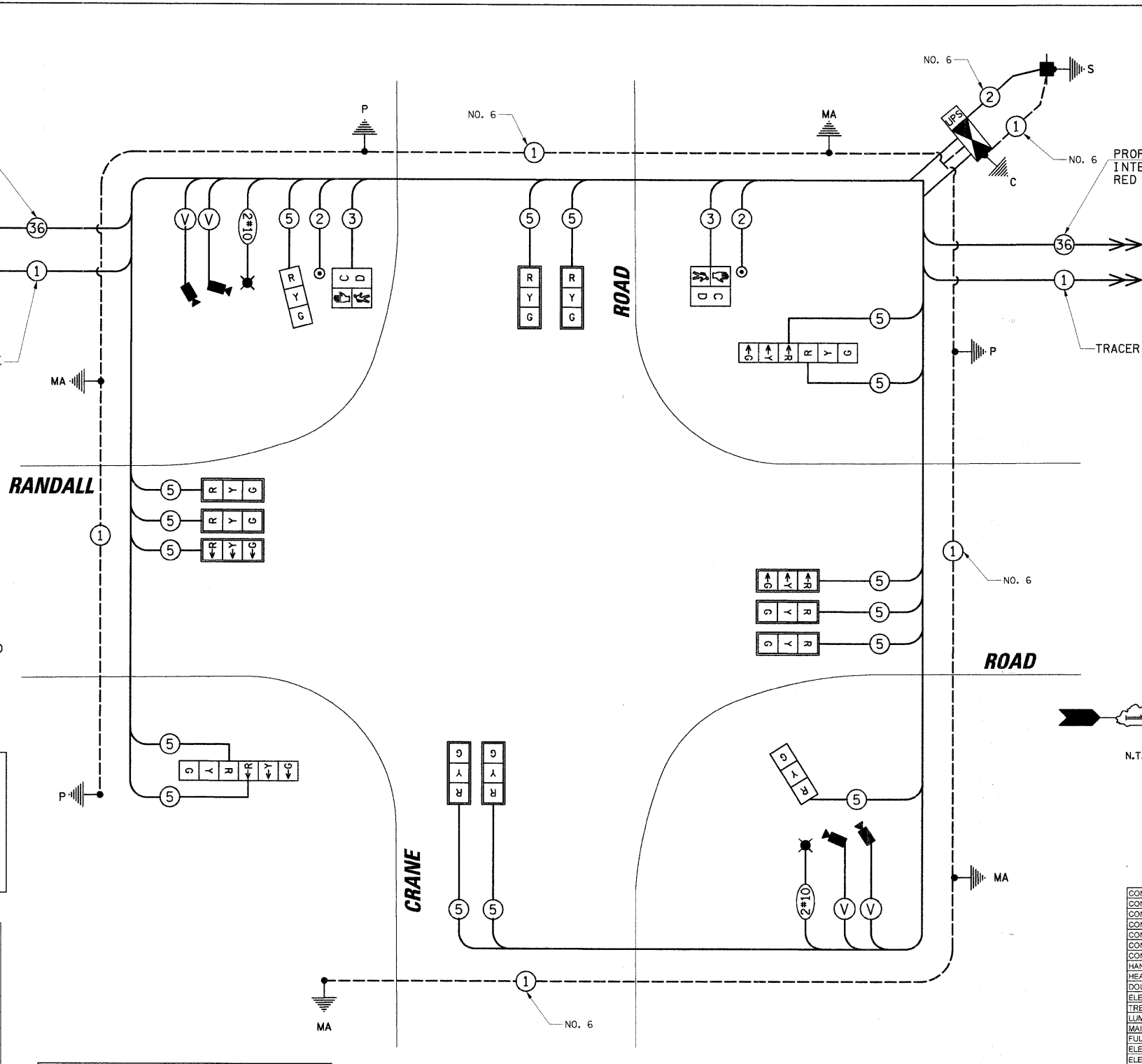
ENERGY COSTS TO: TOTAL = 906.00

**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'+L-2' =
E - 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)

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



**CABLE PLAN LEGEND**

	<b>EXISTING</b>		<b>PROPOSED</b>	8" (200mm) TRAFFIC SIGNAL SECTION
				12" (300mm) TRAFFIC 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
				FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM24F
				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
				UNINTERRUPTIBLE POWER SUPPLY
				VENDOR SPECIFIC CABLE
				DOME CAMERA (PAN/TILT/ZOOM)
				VIDEO DETECTION CAMERA
				COUNTDOWN PEDESTRIAN HEAD

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
CONDUIT IN TRENCH 2" DIA., GALVANIZED STEEL	FOOT	14
CONDUIT IN TRENCH 2 1/2" DIA., GALVANIZED STEEL	FOOT	17
CONDUIT IN TRENCH 3" DIA., GALVANIZED STEEL	FOOT	39
CONDUIT IN TRENCH 4" DIA., GALVANIZED STEEL	FOOT	76
CONDUIT PUSHED 2 1/2" DIA., GALVANIZED STEEL	FOOT	167
CONDUIT PUSHED 3" DIA., GALVANIZED STEEL	FOOT	48
CONDUIT PUSHED 4" DIA., GALVANIZED STEEL	FOOT	295
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 10	FOOT	596
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	140
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 310 WATT	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	141
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	159
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 8C	FOOT	3692
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	29
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE B	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
PEDESTRIAN PUSH-BUTTON	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL II	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND NO. 6 1C	FOOT	846
VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	L SUM	1
ETHERNET KIT	EACH	1