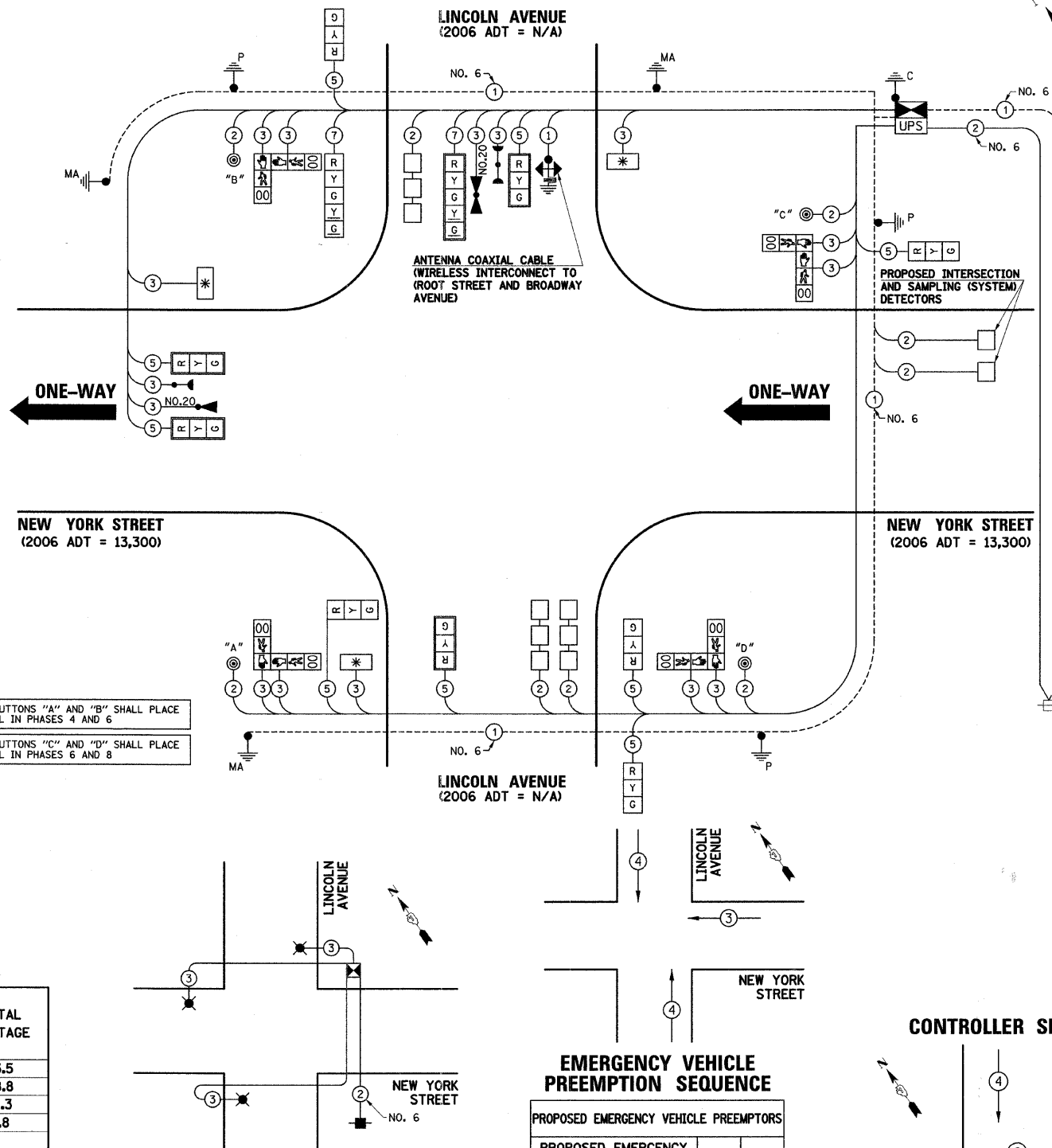


CABLE PLAN LEGEND

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
		LUMINAIRE
		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 SMI2F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
		WIRELESS ANTENNA
		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
		LED STREET NAME SIGN
		VIDEO DETECTION CAMERA
		PAN/TILT/ZOOM CAMERA



PUSHBUTTONS "A" AND "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSHBUTTONS "C" AND "D" SHALL PLACE A CALL IN PHASES 6 AND 8

SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	LINCOLN AVENUE
SIGN PANEL - TYPE 1	SQ FT	20
ELECTRICAL SERVICE INSTALLATION	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	81
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	38
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	105
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	33
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	186
HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, 800V (XLP-TYPE USE) 1/C NO. 10	FOOT	501.5
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	180
LIGHTING CONTROLLER TYPE CB-RS 80 AMP - 240 VOLT	EACH	1
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	482
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1776
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1312.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	231.5
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	878.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	140
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 22 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	387.3
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4167.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
PAINT TRAFFIC SIGNAL POST	EACH	3
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	562.5
ELECTRIC CABLE IN CONDUIT, NO. 20 3C TWISTED SHIELDED	FOOT	287.5
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	2
LUMINAIRE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (SPECIAL)	EACH	3

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

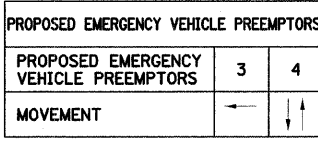
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	11		17	0.50	93.5
(YELLOW)	11		25	0.25	68.8
(GREEN)	11		15	0.25	41.3
ARROW	4		12	0.10	4.8
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
LED SIGN	3		60	0.50	90
LUMINAIRE	3		250	0.50	375
TOTAL =					998.4

ENERGY COSTS TO: CITY OF AURORA
 44 E. DOWNER PLACE
 AURORA, ILLINOIS 60507-2067

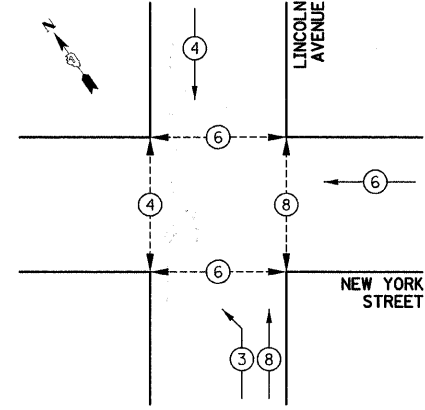
ENERGY SUPPLY CONTACT: MARK SCHERIBEL
 PHONE: (630) 723-2128
 COMPANY: COMMONWEALTH EDISON

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)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2=(6m+H-0.6m)
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M.A. LENGTH		CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
<30'	30" (900mm)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
<40'	30" (750mm)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
<40'	36" (900mm)	GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)
<50'	36" (900mm)				
>50'	36" (900mm)				

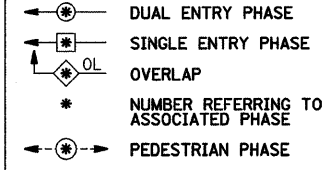
EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONTROLLER SEQUENCE



CONTROLLER SEQUENCE LEGEND



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

PHASE DESIGNATION DIAGRAM