

**CABLE PLAN LEGEND**

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|--|---|
|  | <b>8" (200mm) TRAFFIC SIGNAL SECTION</b>                                  |
|  | <b>12" (300mm) TRAFFIC SIGNAL SECTION</b>                                 |
|  | <b>12" (300mm) PEDESTRIAN SIGNAL SECTION</b>                              |
|  | <b>12" (300mm) PEDESTRIAN SIGNAL SECTION</b>                              |
|  | <b>CONTROLLER CABINET</b>   |
|  | <b>SERVICE INSTALLATION</b>   |
|  | <b>TELEPHONE INSTALLATION</b>   |
|  | <b>VEHICLE DETECTOR, INDUCTION LOOP</b>                                   |
|  | <b>MAGNETIC DETECTOR</b>  |
|  | <b>EMERGENCY VEHICLE LIGHT DETECTOR</b>                                   |
|  | <b>CONFIRMATION BEACON</b>  |
|  | <b>PUSHBUTTON DETECTOR</b>  |
|  | <b>LUMINAIRE</b>  |
|  | <b>NO. 6 SOLID COPPER (GREEN)</b>   |
|  | <b>NO. 62.5/125 2-MM12F SM12F</b>   |
|  | <b>"P" INDICATES PROGRAMMED HEAD.</b>                                     |
|  | <b>RAILROAD CONTROL CABINET</b>   |
|  | <b>ILLUMINATED SIGN "NO LEFT TURN"</b>                                    |
|  | <b>ILLUMINATED SIGN "NO RIGHT TURN"</b>                                   |
|  | <b>WIRELESS ANTENNA</b>   |
|  | <b>GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)</b> |
|  | <b>GROUND ROD AT POST (P) OR MAST ARM POLE (MA)</b>                       |
|  | <b>GROUND ROD AT ELECTRIC SERVICE INSTALLATION</b>                        |
|  | <b>UNINTERRUPTIBLE POWER SUPPLY</b>                                       |
|  | <b>LED STREET NAME SIGN</b>   |
|  | <b>VIDEO DETECTION CAMERA</b>   |
|  | <b>PAN/TILT/ZOOM CAMERA</b>   |

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.

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PUSHBUTTONS "A" AND "B" SHALL PLACE A CALL IN PHASES 2 AND 4

PUSHBUTTONS "C" AND "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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

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

FILE NAME = ...\\fin.dwg\690.5.sig06c\_root.dgn

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PLOT SCALE = #SCALE#  
PLOT DATE = 12/17/2009

DESIGNED -  
DRAWN BAH  
CHECKED APS  
DATE -

REVISED -  
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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

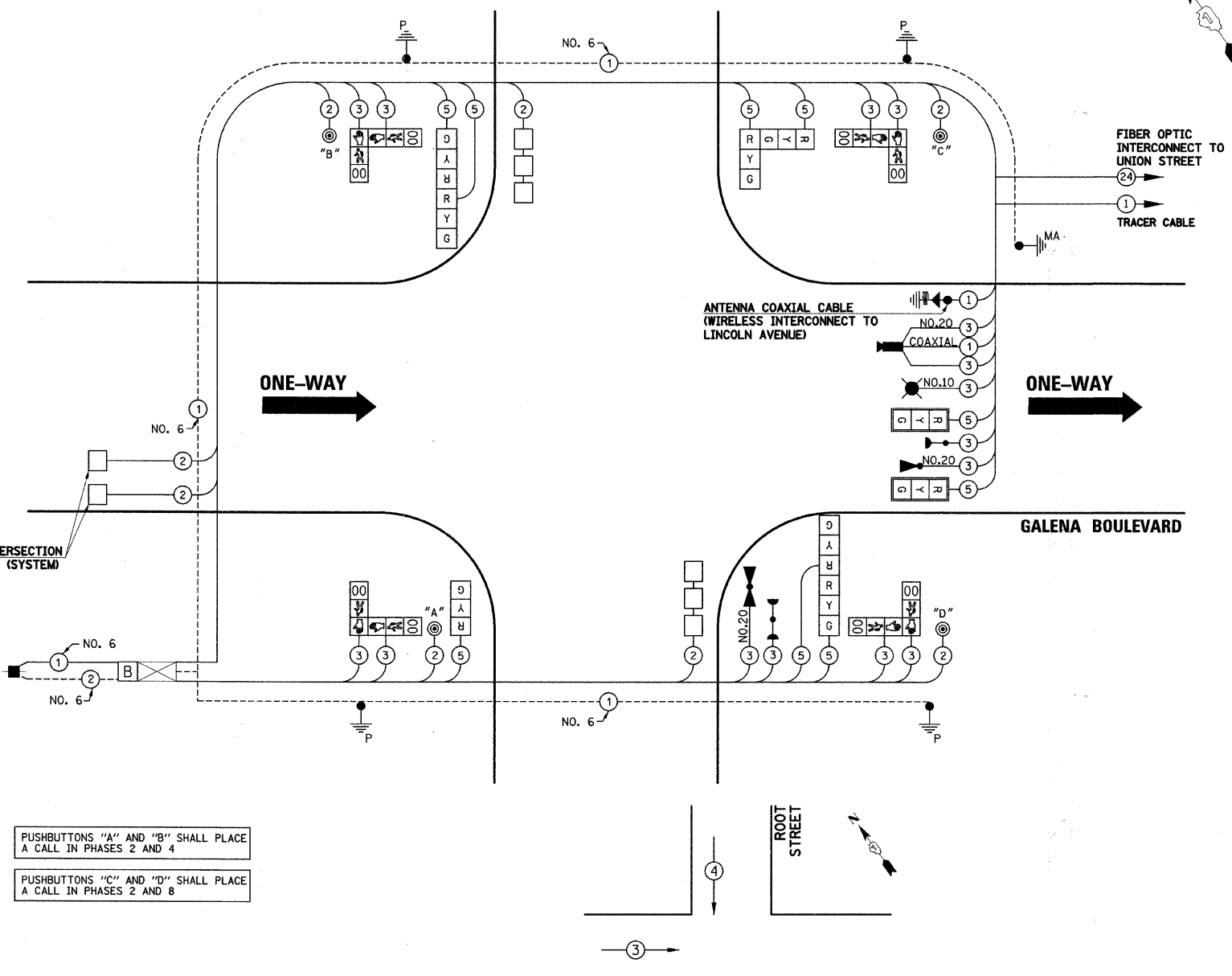
CABLE PLAN AND  
PHASE DESIGNATION DIAGRAM  
ROOT STREET

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-00270-00-TL	KANE	44	25
CONTRACT NO. 63300			ILLINOIS FED. AID PROJECT	

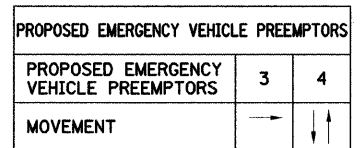
**SCHEDULE OF QUANTITIES**

PAY ITEM DESCRIPTION	UNIT	ROOT STREET
SIGN PANEL - TYPE 1	SQ FT	42.5
ELECTRICAL SERVICE INSTALLATION	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	207
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	43
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	91
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	61
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	24
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	127
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	250
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	428
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	528
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1751
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1502.5
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	756
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	41.5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
DRILL EXISTING HANDHOLE	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	247
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3205
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FT	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
PAINT TRAFFIC SIGNAL POST	EACH	4
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	423
VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	225
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED SHIELDED	FOOT	639
GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	4
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1

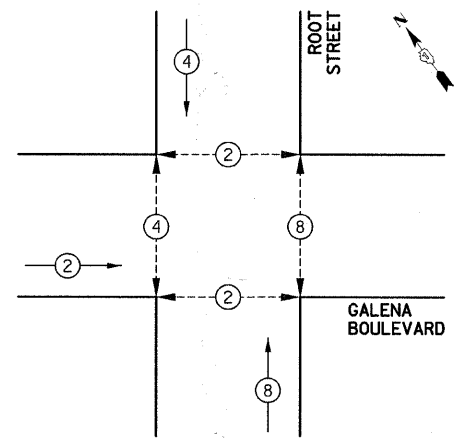
ROOT STREET



**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONTROLLER SEQUENCE**



**CONTROLLER SEQUENCE LEGEND**

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERRING TO ASSOCIATED PHASE

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**