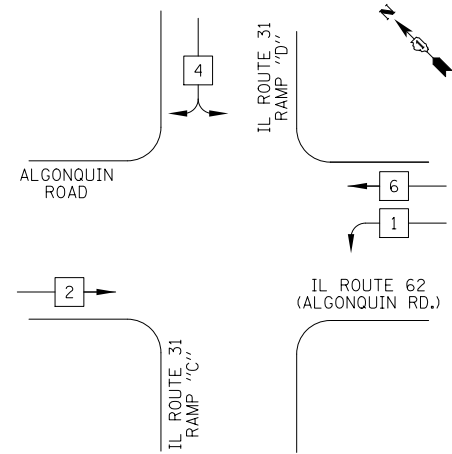
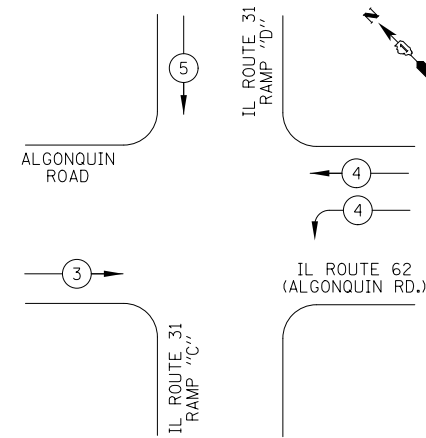


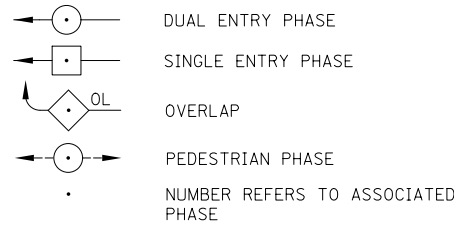
PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	↗	↓

SCHEDULE OF QUANTITIES

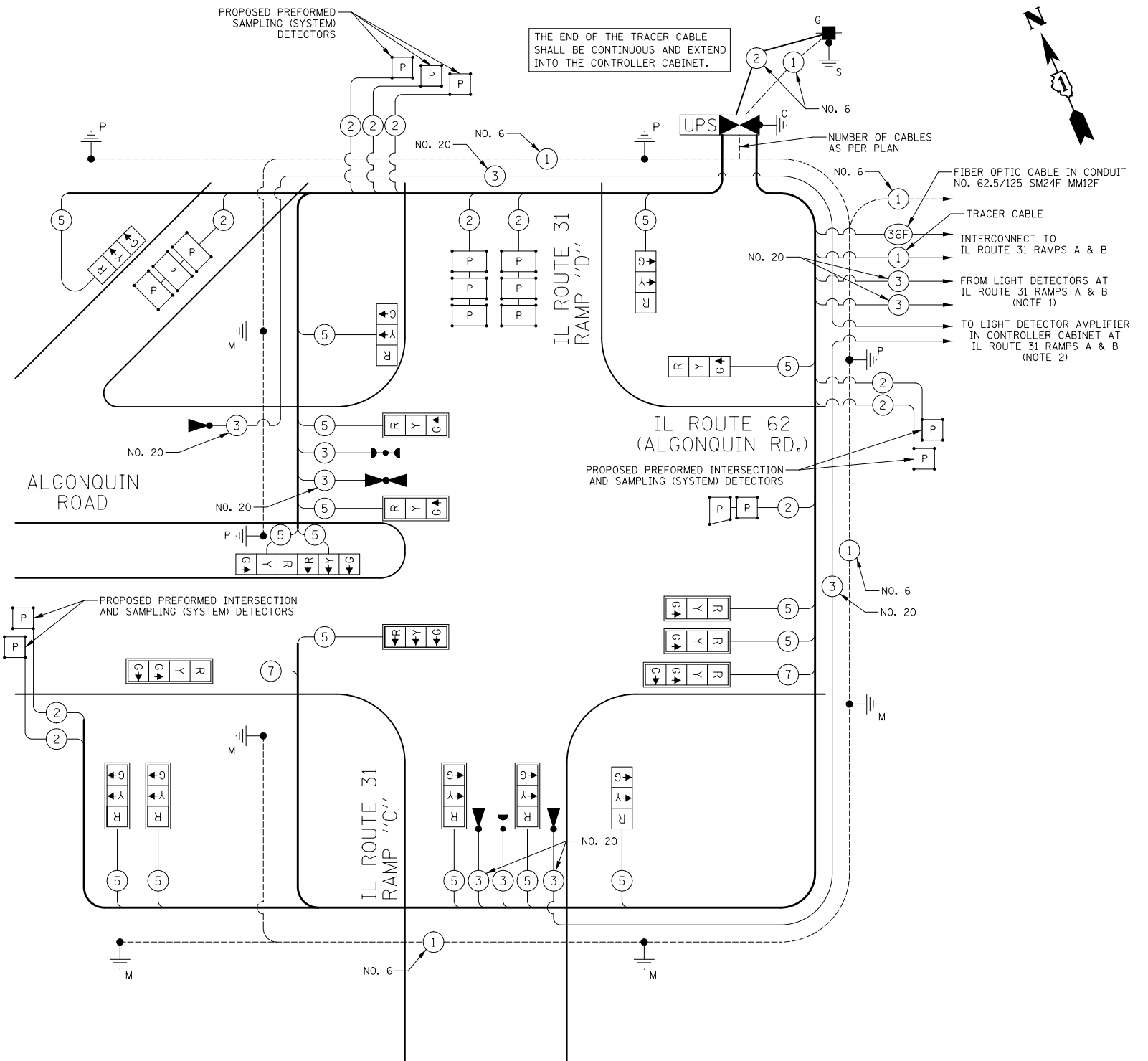
PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	1
SIGN PANEL - TYPE 1	SQ FT	10
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	741
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	316
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	200
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	449
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
** PAINT NEW TRAFFIC SIGNAL POST	EACH	4
** PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3
** PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
** PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	370
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3333
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	524
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3084
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	247
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1392
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	11
PREFORMED DETECTOR LOOP	FOOT	711
LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1652
* FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

*100% COST TO ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT
 **100% COST TO VILLAGE OF ALGONQUIN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18	17	0.50		153
(YELLOW)	18	25	0.25		113
(GREEN)	20	15	0.25		75
ARROW	-	12	0.10		-
PED. SIGNAL	-	25	1.00		-
CONTROLLER	1	100	1.00		100
FLASHER				0.50	
TOTAL =					441

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 CONTACT: MIKE LENOX
 PHONE: (815) 490-2869
 COMPANY: COM ED

ENERGY SUPPLY:



CABLE PLAN
NOT TO SCALE

CABLE PLAN NOTES

- THESE CABLES ARE CONNECTED TO LIGHT DETECTORS ON THE NORTHWEST DUAL MAST ARM AT THE IL ROUTE 31 RAMPS A & B INTERSECTION. THOSE DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 4 AT THIS INTERSECTION.
- THESE CABLES ARE CONNECTED TO THE LIGHT DETECTOR AMPLIFIER IN THE CONTROLLER CABINET AT THE IL ROUTE 31 RAMPS A & B INTERSECTION. THE CORRESPONDING LIGHT DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 3 AT THAT INTERSECTION.

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

FILE NAME = ... \D160F72-sht-ts-13.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
 IL ROUTE 31 RAMPS C & D AT IL ROUTE 62 (ALGONQUIN RD.)
 SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	275
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				