



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	130
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

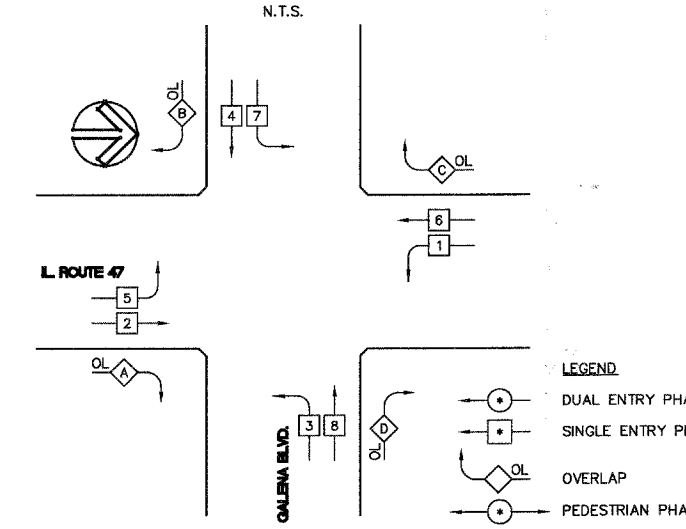
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM DESCRIPTION
1	CAL. MO	CHANGEABLE MESSAGE SIGN
75	SQ FT	SIGN PANEL - TYPE 1
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1502	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
171	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
52	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
138	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
17	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
380	FOOT	CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL
497	FOOT	CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL
7	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1869	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL
1286	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
1116	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3159	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2044	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4186	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
239	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1116	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
3	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
60	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
1	EACH	DRILL EXISTING HANDHOLE
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
18	EACH	INDUCTIVE LOOP DETECTOR
2053	FOOT	DETECTOR LOOP, TYPE 1
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	UNINTERRUPTIBLE POWER SUPPLY

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 WITH COUNTDOWN TIMERS
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		SIGNAL FACE WITH BACKPLATE
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC
		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
		GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
		NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE
		NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE
		UNINTERRUPTIBLE POWER SUPPLY

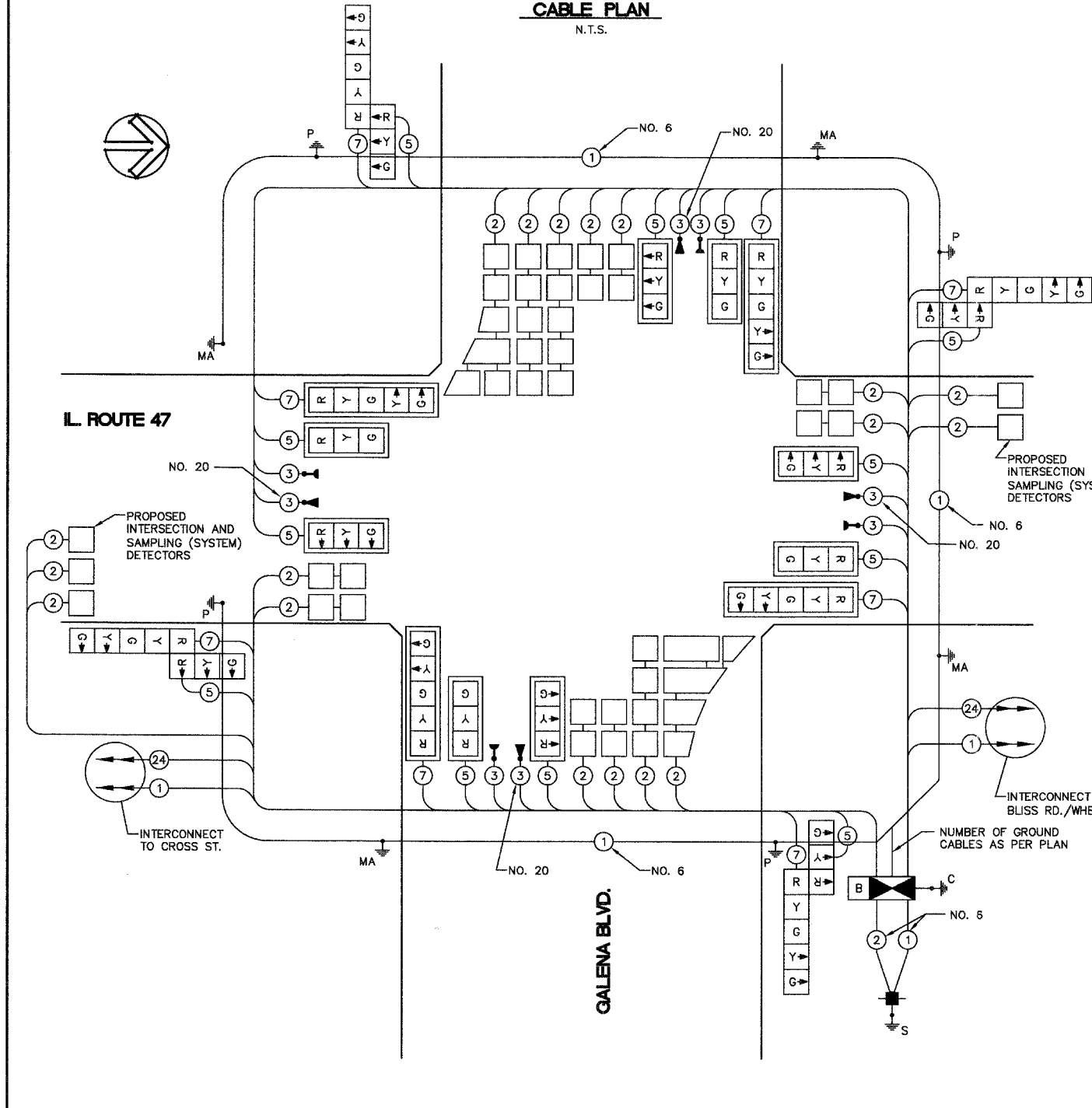
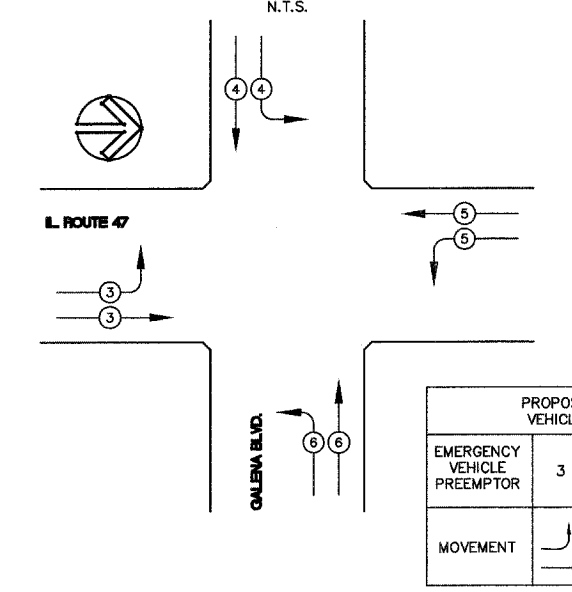
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



THE TRAFFIC SIGNAL CONTROL 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. LAMPS	INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	20	10		0.50	100
(YELLOW)	20	19		0.25	95
(GREEN)	20	11		0.25	55
ARROW	16	10		0.10	16
CONTROLLER	1	100		1.00	100
ILLUM. SIGN	-			0.05	
FLASHER				0.50	
TOTAL =					366

ENERGY COST -	BILLED TO:	VILLAGE OF SUGAR GROVE
	(ADDRESS)	10 MUNICIPAL DRIVE
		SUGAR GROVE, IL 60554
ENERGY SUPPLY -	CONTACT:	MARK SCHERIBEL
PHONE:		630-862-5160
	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 (1.1)
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)	(6.1+L-1.0)=	
36" (900mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
		FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		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)

DATE	
BY	
PLAN	
NO. _____	
NOTE BOOK	
NO. _____	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
STRUCTURE NOTATIONS CHECKED	
ADD. FILE NAME	

DATE	
BY	
PROFILE	
NO. _____	
NOTE BOOK	
NO. _____	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	

ILL. RTE 47 AND GALENA BOULEVARD CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES