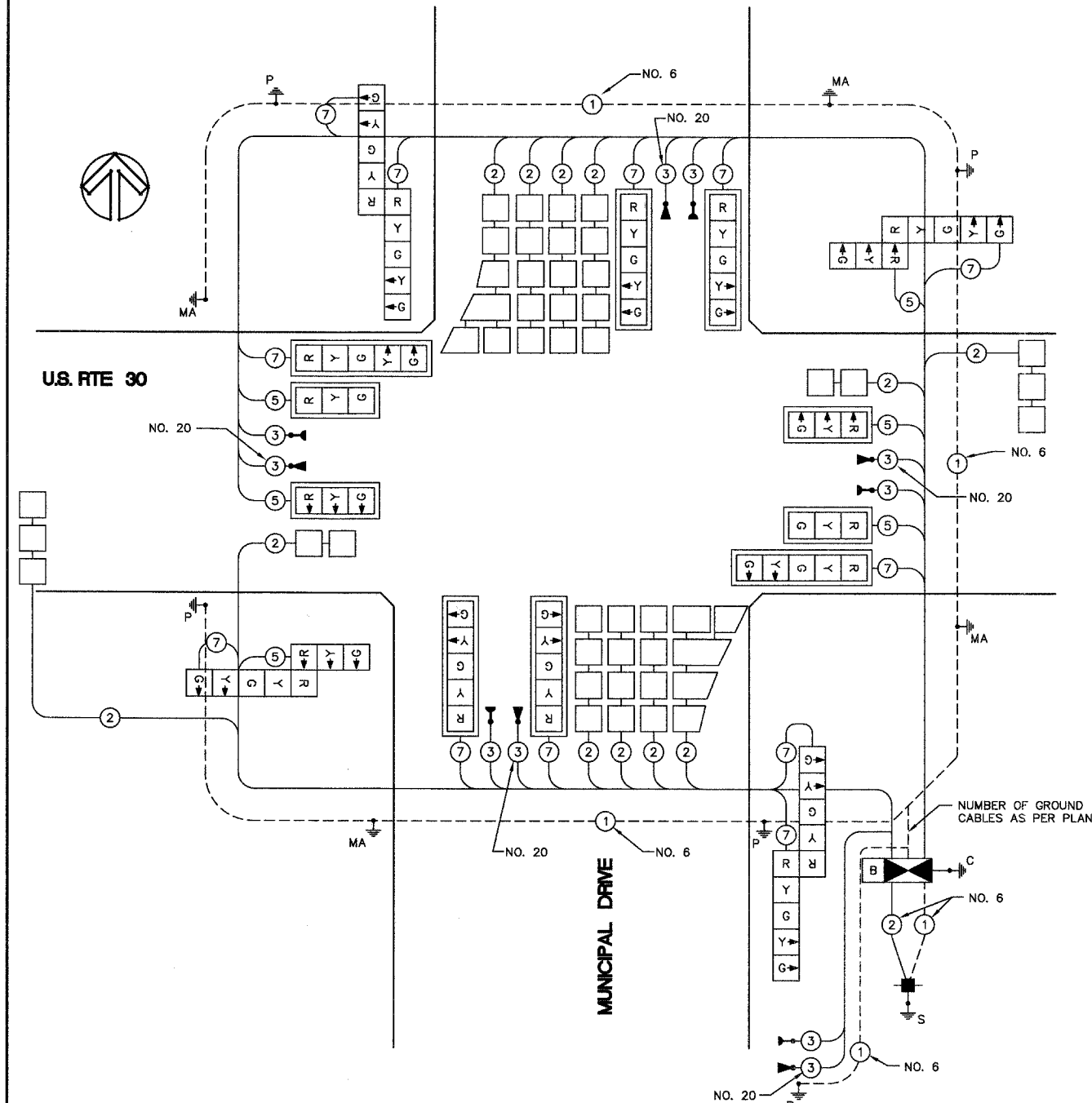




F.A. SECTION COUNTY TOTAL SHEETS SHEET NO.	N/A 06-00017-00-PV KANE 232 137
STA. TO STA.	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

CABLE PLAN
N.T.S.



CABLE PLAN LEGEND

EXISTING	PROPOSED	QUANTITY	UNIT	ITEM DESCRIPTION
		1	CAL MO	8" (200mm) TRAFFIC SIGNAL SECTION
		53	SQ FT	12" (300mm) TRAFFIC SIGNAL SECTION
		1	EACH	12" (300mm) PEDESTRIAN SIGNAL SECTION
		632	FOOT	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMERS
		419	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
		74	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
		17	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
		142	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
		111	FOOT	CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL
		5	FOOT	CONDUIT, PUSHED 2-1/2" DIA., GALVANIZED STEEL
		2	FOOT	CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL
		1346	FOOT	HANDHOLE
		1	EACH	HEAVY-DUTY HANDHOLE
		1172	FOOT	DOUBLE HANDHOLE
		1	EACH	TRENCH AND BACKFILL FOR ELECTRICAL WORK
		1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
		1172	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
		1272	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
		1488	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
		2807	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
		3354	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
		98	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
		1446	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED
		4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
		1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
		1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
		1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.
		1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.
		1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.
		20	FOOT	CONCRETE FOUNDATION, TYPE A
		4	FOOT	CONCRETE FOUNDATION, TYPE C
		60	FOOT	CONCRETE FOUNDATION, TYPE E 3/8-INCH DIAMETER
		4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
		6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
		2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
		2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
		10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
		12	EACH	INDUCTIVE LOOP DETECTOR
		2069	FOOT	DETECTOR LOOP, TYPE I
		5	EACH	LIGHT DETECTOR
		2	EACH	LIGHT DETECTOR AMPLIFIER
		1	EACH	UNINTERRUPTIBLE POWER SUPPLY

SCHEDULE OF QUANTITIES

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	
NO. 11	
NO. 12	
NO. 13	
NO. 14	
NO. 15	
NO. 16	
NO. 17	
NO. 18	
NO. 19	
NO. 20	
NO. 21	
NO. 22	
NO. 23	
NO. 24	
NO. 25	
NO. 26	
NO. 27	
NO. 28	
NO. 29	
NO. 30	

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
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NO. 25	
NO. 26	
NO. 27	
NO. 28	
NO. 29	
NO. 30	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATIONS	
SIGNAL (RED)	18	10	0.50	90
(YELLOW)	18	11	0.25	86
(GREEN)	18	11	0.25	50
ARROW	24	10	0.10	24
PED. SIGNAL	0	7	1.00	0
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	-	0.05	-
TOTAL =				350
FLASHER		0.50		
ENERGY COST - BILLED TO: VILLAGE OF SUGAR GROVE (ADDRESS) 10 MUNICIPAL DRIVE SUGAR GROVE, IL 60554				
ENERGY SUPPLY - CONTACT: MARK SCHERIBEL 630-862-5160				
PHONE: COMPANY: COMED				

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 SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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	15 (4.6)	SIGNAL POST	2 (1.0)		(6.1+L-1.0)=
		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)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		U.S. RTE 30 AND MUNICIPAL DRIVE CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES	
		SCALE: NTS	DRAWN BY: KKP
		DATE: 05/16/08	CHECKED BY: TVW