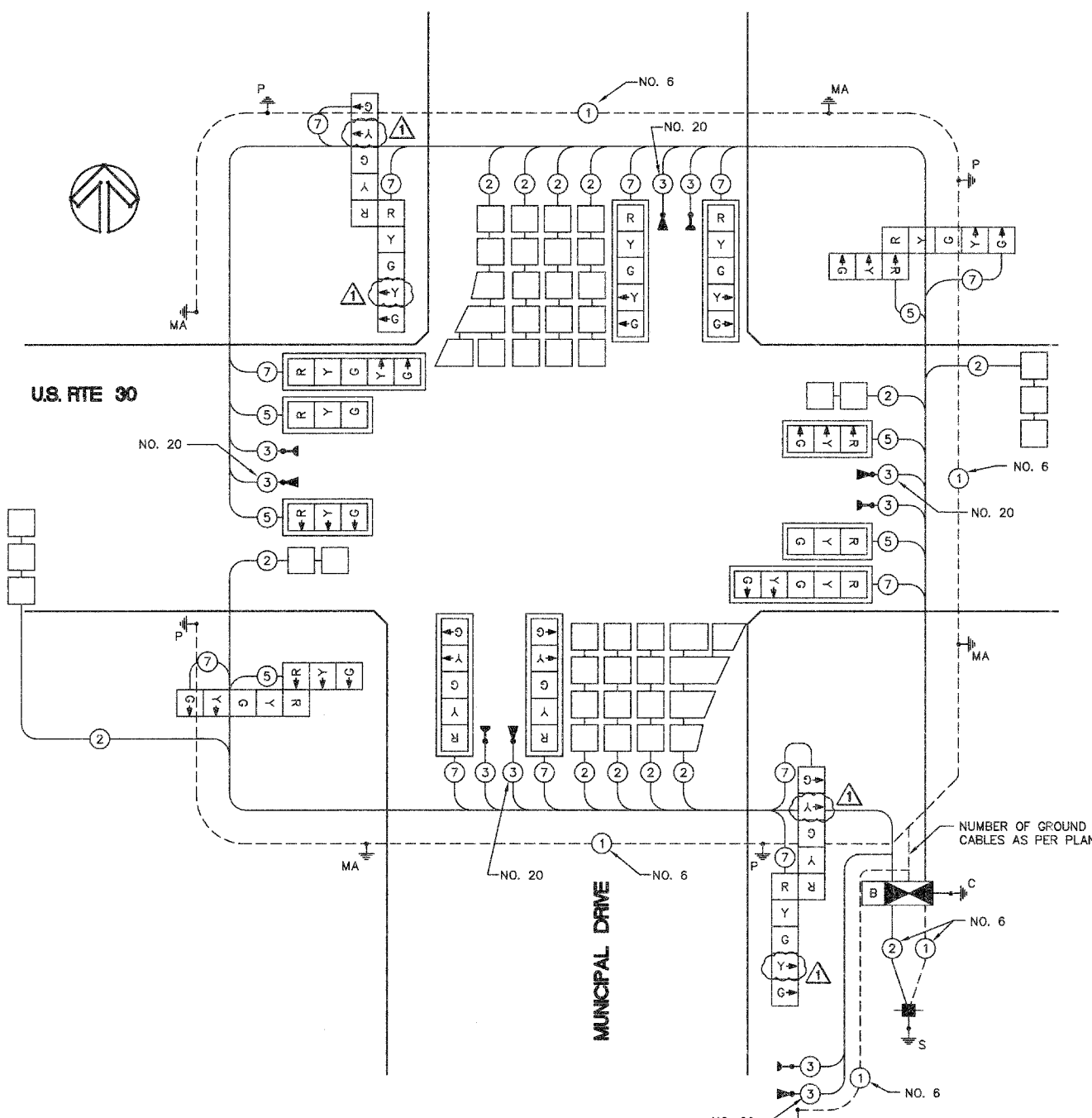




F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	06-00017-00-PV	KANE	232	137
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		

**CABLE PLAN**  
N.T.S.



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION	QUANTITY	UNIT
[Symbol]	[Symbol]	8" (200mm) TRAFFIC SIGNAL SECTION		
[Symbol]	[Symbol]	12" (300mm) TRAFFIC SIGNAL SECTION	53	SQ FT
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION	625	FOOT
[Symbol]	[Symbol]	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMERS	446	FOOT
[Symbol]	[Symbol]	CONTROLLER CABINET	10	FOOT
[Symbol]	[Symbol]	SERVICE INSTALLATION	48	FOOT
[Symbol]	[Symbol]	TELEPHONE CONNECTION	412	FOOT
[Symbol]	[Symbol]	MAGNETIC DETECTOR	3	EACH
[Symbol]	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR	5	EACH
[Symbol]	[Symbol]	CONFIRMATION BEACON	2	EACH
[Symbol]	[Symbol]	PUSHBUTTON DETECTOR	1346	FOOT
[Symbol]	[Symbol]	VEHICLE DETECTOR, INDUCTION LOOP	1	EACH
[Symbol]	[Symbol]	DENOTES NUMBER OF CONDUCTORS.	1	EACH
[Symbol]	[Symbol]	ALL CABLE NO. 14 EXCEPT AS INDICATED.	1	EACH
[Symbol]	[Symbol]	ALL LOOP DETECTOR CABLE TO BE SHIELDED.	1	EACH
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE	20	FOOT
[Symbol]	[Symbol]	"P" INDICATES PROGRAMMED HEAD	4	FOOT
[Symbol]	[Symbol]	RAILROAD CONTROL CABINET	60	FOOT
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	4	EACH
[Symbol]	[Symbol]	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	6	EACH
[Symbol]	[Symbol]	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)	2	EACH
[Symbol]	[Symbol]	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)	10	EACH
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION	12	EACH
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	2069	FOOT
[Symbol]	[Symbol]	NO.62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE	5	EACH
[Symbol]	[Symbol]	NO.62.5/125 MM 24F & SM 12F, FIBER OPTIC CABLE	2	EACH
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY	1	EACH

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	SIGN PANEL - TYPE 1
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
446	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
625	FOOT	CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
48	FOOT	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL
412	FOOT	CONDUIT, PUSHED 2" DIA., GALVANIZED STEEL
3	FOOT	CONDUIT, PUSHED 2-1/2" DIA., GALVANIZED STEEL
5	FOOT	CONDUIT, PUSHED 4" DIA., GALVANIZED STEEL
2	EACH	HANDHOLE
1346	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
1172	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1272	FOOT	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
1488	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
2807	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3354	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
98	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1446	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
4	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3/C, TWISTED, SHIELDED
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 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 36-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
10	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2069	FOOT	INDUCTIVE LOOP DETECTOR
5	EACH	DETECTOR LOOP, TYPE I
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	UNINTERRUPTIBLE POWER SUPPLY

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BY	
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ALIGNED	
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NO. _____	
NO. _____	
NO. _____	
NO. _____	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATIONS	
SIGNAL (RED)	18	17	0.50	0.50	153
(YELLOW)	18	25	0.25	0.25	112.5
(GREEN)	18	15	0.25	0.25	67.5
ARROW	24	12	0.10	0.10	28.8
PED. SIGNAL	0	25	1.00	1.00	0
CONTROLLER	1	100	1.00	1.00	100
ILLUM. SIGN	1		0.05	0.05	
FLASHER			0.50		
TOTAL =					461.8

**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 =
F - M ARM POLE	2 (1.0)	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)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

**U.S. RTE 30 AND MUNICIPAL DRIVE CABLE PLAN, AND SCHEDULE OF QUANTITIES**

SCALE: NTS      DRAWN BY: KKP  
DATE: 05/16/08      CHECKED BY: TW