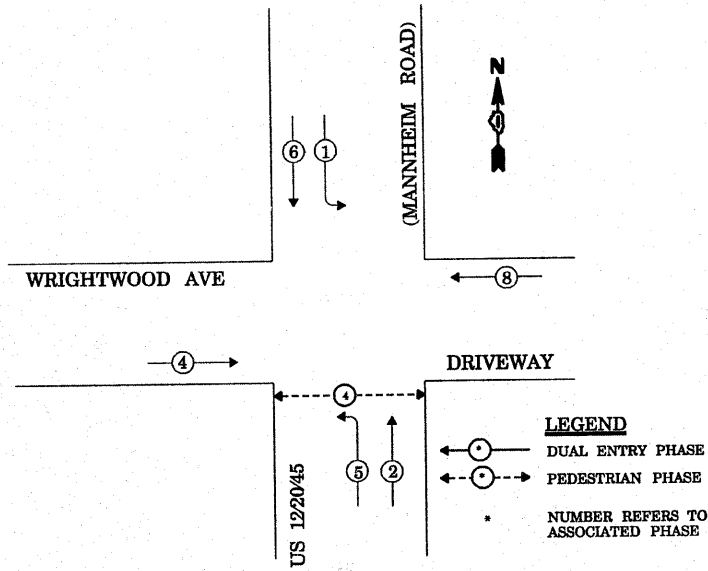
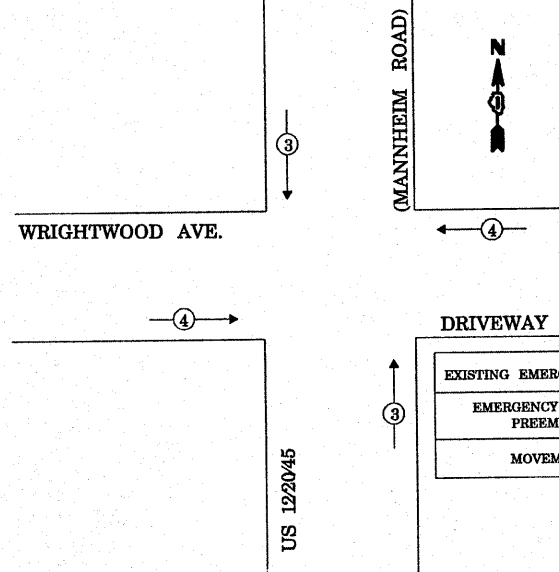


**CONTROLLER SEQUENCE**

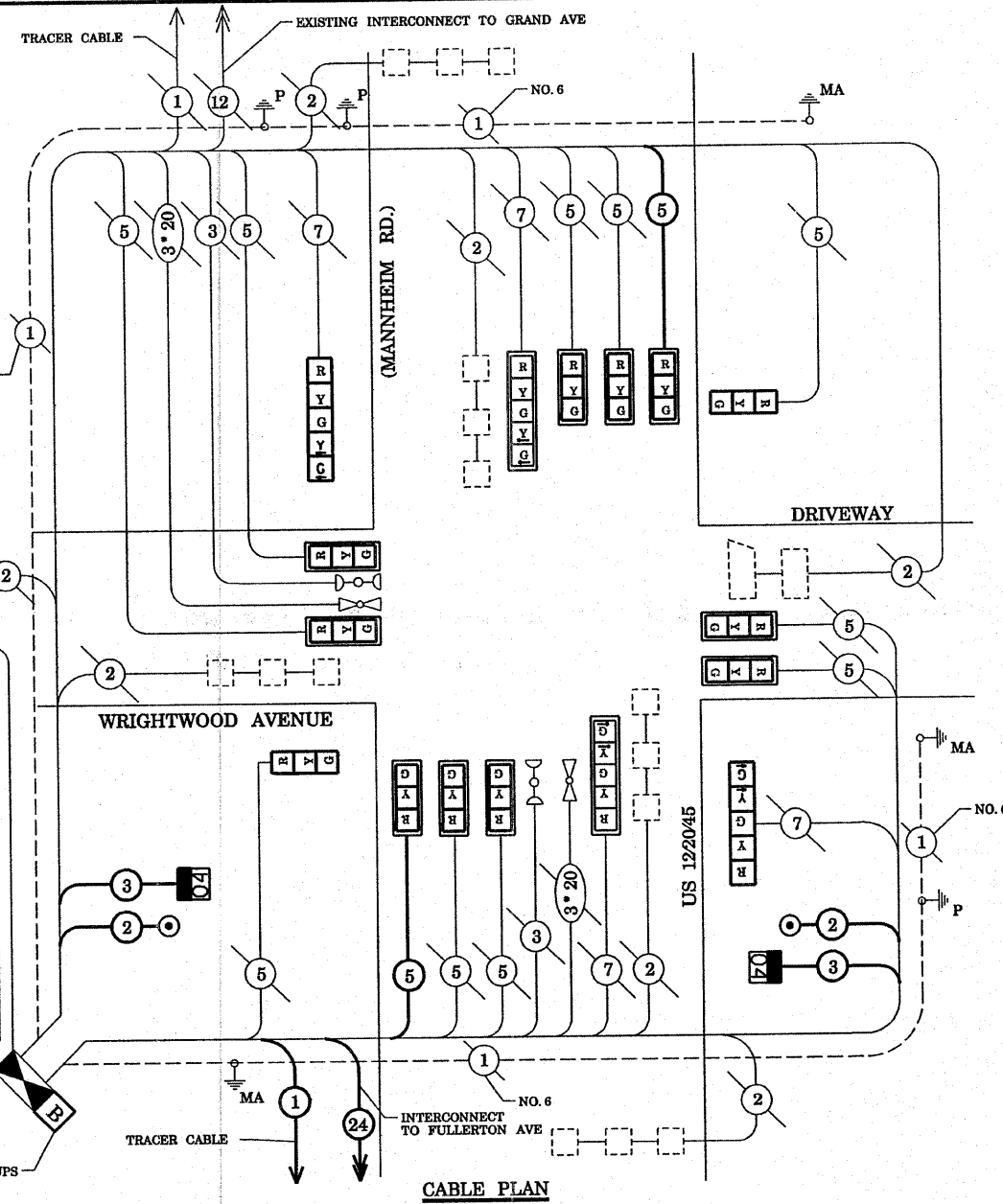


**PHASE DESIGNATION DIAGRAM**

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



THE END OF THE TRACER CABLE SHALL BE TIED TO A CABLE HOOK IN THE DOUBLE HANDHOLE CLOSEST TO THE CONTROLLER FOUNDATION.



**CABLE PLAN LEGEND**

- | PROPOSED | EXISTING |   |
|----------|----------|---|
| [Symbol] | [Symbol] | 8" (200mm) TRAFFIC SIGNAL SECTION   |
| [Symbol] | [Symbol] | 12" (300mm) TRAFFIC SIGNAL SECTION  |
| [Symbol] | [Symbol] | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
| [Symbol] | [Symbol] | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
| [Symbol] | [Symbol] | CONTROLLER CABINET SERVICE INSTALLATION   |
| [Symbol] | [Symbol] | TELEPHONE CONNECTION  |
| [Symbol] | [Symbol] | MAGNETIC DETECTOR   |
| [Symbol] | [Symbol] | PUSHBUTTON DETECTOR   |
| [Symbol] | [Symbol] | VEHICLE DETECTOR, INDUCTION LOOP  |
| [Symbol] | [Symbol] | 2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| [Symbol] | [Symbol] | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD   |
| [Symbol] | [Symbol] | "E" RAILROAD CONTROL CABINET  |
| [Symbol] | [Symbol] | "E" ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"  |
| [Symbol] | [Symbol] | "E" ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"   |
| [Symbol] | [Symbol] | HC GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER   |
| [Symbol] | [Symbol] | P GROUND ROD AT POST OR MAST ARM POLE   |
| [Symbol] | [Symbol] | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |
| [Symbol] | [Symbol] | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |
| [Symbol] | [Symbol] | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F  |
| [Symbol] | [Symbol] | MICROWAVE VEHICLE SENSOR  |
| [Symbol] | [Symbol] | VIDEO DETECTOR  |
| [Symbol] | [Symbol] | CLOSED CIRCUIT TV   |
| [Symbol] | [Symbol] | EMERGENCY VEHICLE LIGHT DETECTOR  |
| [Symbol] | [Symbol] | CONFIRMATION BEACON   |
| [Symbol] | [Symbol] | UNINTERRUPTIBLE POWER SUPPLY  |
| [Symbol] | [Symbol] | PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER   |

**SCHEDULE OF QUANTITIES**

QUANTITIES	UNIT	ITEM	QUANTITIES	UNIT	ITEM
206	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
12	FOOT	COMBINATION CURB AND GUTTER REMOVAL	2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
206	SQ FT	SIDEWALK REMOVAL	2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
12	FOOT	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	1	EACH	UNINTERRUPTIBLE POWER SUPPLY
0.1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501			
0.1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701			
0.1	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801			
160	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12"			
120	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"			
238	SQ FT	THERMOPLASTIC PAVEMENT MARKING REMOVAL			
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL			
1	EACH	TRANSCEIVER-FIBER OPTIC			
214	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C			
232	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C			
290	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C			
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM			
6	EACH	INDUCTIVE LOOP DETECTOR			
2	EACH	PEDESTRIAN PUSH-BUTTON			
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT			
10	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED			
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED			

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	17	17	0.50	136.00
(YELLOW)	16	25	25	0.25	100.00
(GREEN)	16	15	15	0.25	60.00
ARROW	8	12	12	0.10	9.60
PED. SIGNAL	2	25	25	1.00	50.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN				0.05	-
FLASHER				0.05	-
ENERGY COSTS TO: VILLAGE OF FRANKLIN PARK 9500 BELMONT AVENUE FRANKLIN PARK, IL 60131					TOTAL = 455.60
ENERGY SUPPLY CONTACT: LINDA KLOC PHONE: (708)410-5313 COMPANY: COMMONWEALTH EDISON					

FILE NAME =	USER NAME = kanthapixaybc	DESIGNED - N.B.	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> PROPOSED CABLE PLAN US 12/2045 (MANNHEIM ROAD) AT WRIGHTWOOD AVENUE SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\projects\traffic\070827\us12.20.45.dgn		DRAWN - N.B.	REVISED -					330	2008-006 TS	COOK	104	21
PLOT SCALE = 48.0000' / IN.		CHECKED - D.B.	REVISED -					CONTRACT NO. 60E31				
PLOT DATE = 10/18/2008		DATE - 09/04/2008	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				