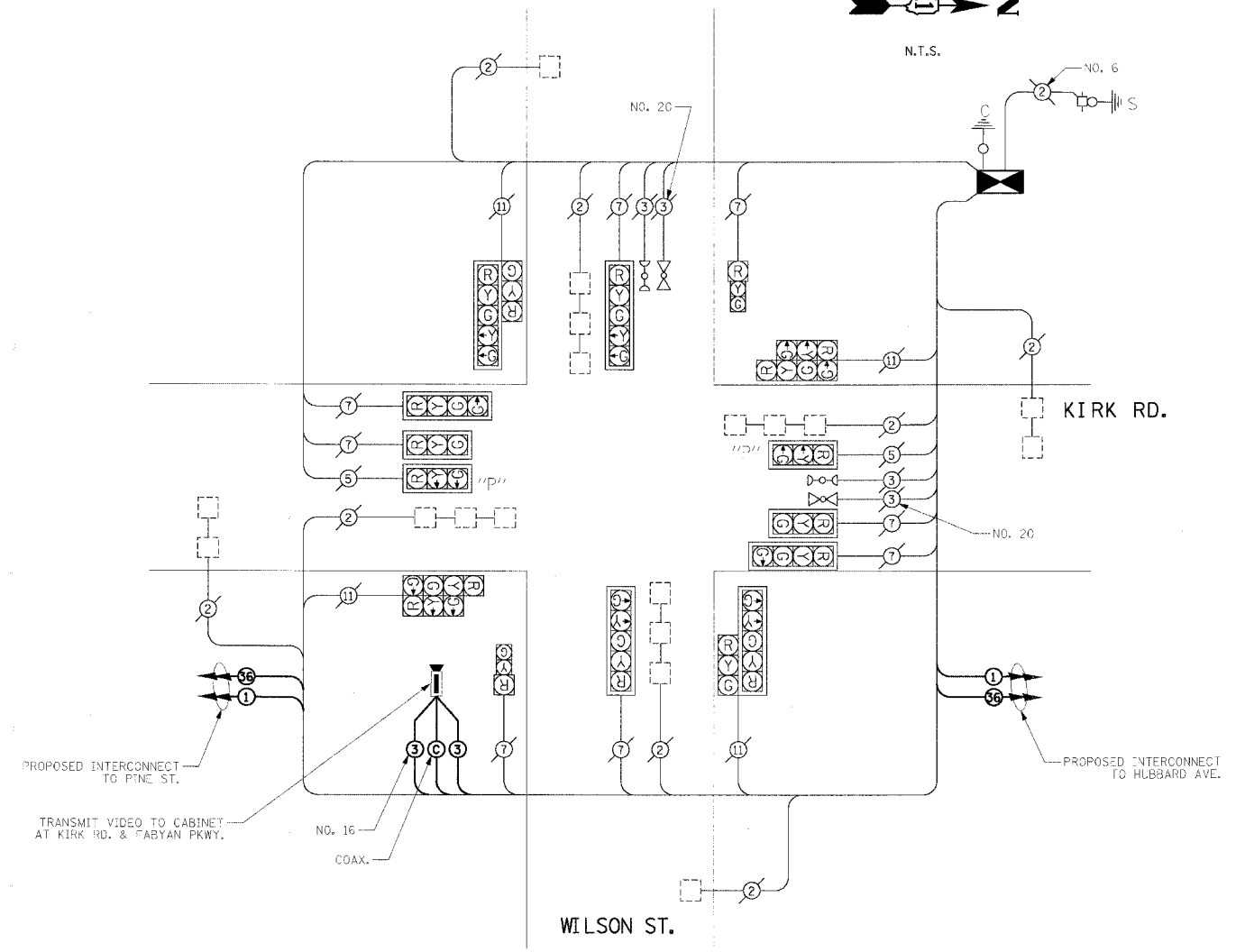


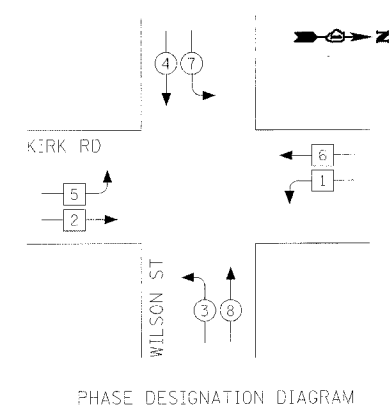
### CABLE PLAN LEGEND

- |                 |                 |   |
|-----------------|-----------------|---|
| <b>EXISTING</b> | <b>PROPOSED</b> |   |
|                 |                 | 8" (200mm) TRAFFIC SIGNAL SECTION   |
|                 |                 | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
|                 |                 | CONTROLLER CABINET  |
|                 |                 | SERVICE INSTALLATION  |
|                 |                 | TELEPHONE CONNECTION  |
|                 |                 | VEHICLE DETECTOR, INDUCTION LOOP  |
|                 |                 | MAGNETIC DETECTOR   |
|                 |                 | EMERGENCY VEHICLE LIGHT DETECTOR  |
|                 |                 | CONFIRMATION BEACON   |
|                 |                 | PUSHBUTTON DETECTOR   |
|                 |                 | DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|                 |                 | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |
|                 |                 | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F   |
|                 |                 | SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.  |
|                 |                 | RAILROAD CONTROL CABINET  |
|                 |                 | ILLUMINATED SIGN "NO LEFT TURN"   |
|                 |                 | ILLUMINATED SIGN "NO RIGHT TURN"  |
|                 |                 | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR CONTROLLER (C)   |
|                 |                 | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)  |
|                 |                 | GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |
|                 |                 | MICROWAVE VEHICLE SENSOR  |
|                 |                 | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F SM12F   |
|                 |                 | PAN-TILT-ZOOM CAMERA  |

### CABLE PLAN



### PROPOSED CONTROLLER SEQUENCE



- LEGEND**
- DUAL ENTRY PHASE
  - SINGLE ENTRY PHASE
  - OVERLAP
  - PEDESTRIAN PHASE
  - \* NUMBER REFERS TO ASSOCIATED PHASE

### SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCEIVER - FIBER OPTIC
255	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
255	FOOT	VIDEO ELECTRIC CABLE IN CONDUIT, NO. 16 3C
255	FOOT	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT
2	EACH	DRILL EXISTING HANDHOLE
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	MODIFY EXISTING TYPE "D" FOUNDATION
1	EACH	REMOTE-CONTROLLED VIDEO SYSTEM
1	WEEK	CHANGEABLE MESSAGE SIGN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	18	135	17	0.50	1215.0
(YELLOW)	14	135	25	0.25	472.5
(GREEN)	14	135	15	0.25	472.5
ARROW	20	135	12	0.10	270.0
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					2530.0

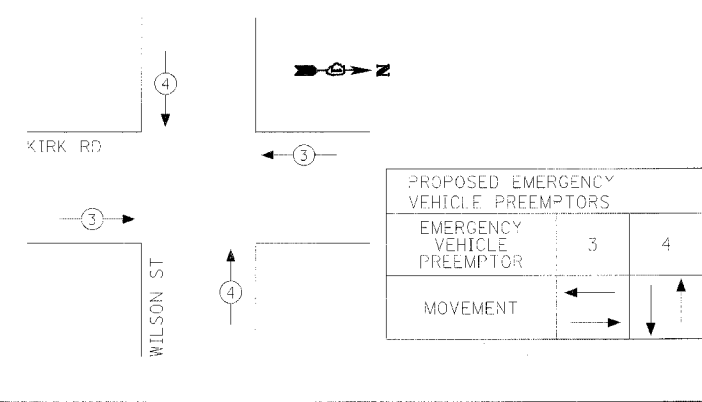
ENERGY COSTS TO: CITY OF BATAVIA, 100 N. ISLAND AVENUE, BATAVIA, ILLINOIS 60510

ENERGY SUPPLY CONTACT: STEVE LUSTED, PHONE: (630) 879-1424 X 302, COMPANY: CITY OF BATAVIA

**NOTE:**  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2= (6m-H-0.6m)=
E - M. ARM POLE	24" (600mm)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
	30" (750mm)	CONTROLLER CAB.	1 (0.3)	PED. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.3)	POST MOUNTED	6 (1.8)

### PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



**KENIG, LINDGREN, O'HARA, ABOONA, INC.**  
9575 West Higgins Road, Suite 400  
Rosemont, Illinois 60018  
(847) 518-9990 FAX (847) 518-9987

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES  
KIRK RD AT WILSON ST

SCALE: NONE  
DATE: 07/19/05

DRAWN BY: DMS  
DESIGNED BY: DMS  
CHECKED BY: DMS