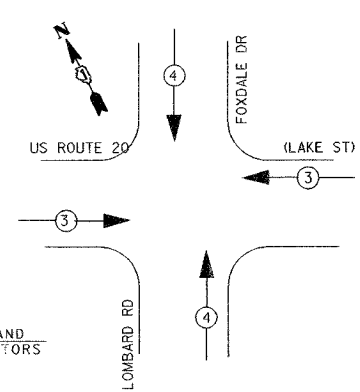
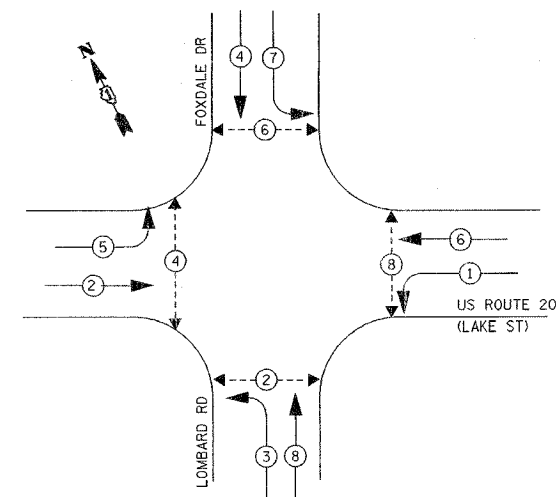


EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

CONTROLLER SEQUENCE



- LEGEND**
- ◀ (circle) DUAL ENTRY PHASE
 - ◀ (square) PROTECTED ONLY LEFT TURN PHASE
 - ◊ (circle) OVERLAP
 - ◀ (circle with dot) PEDESTRIAN PHASE

PHASE DESIGNATION DIAGRAM

CABLE PLAN LEGEND

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

NOTES:
 PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 AND 4
 PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 4 AND 6
 PUSHBUTTON "C" SHALL PLACE A CALL TO PHASES 6 AND 8

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	* OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	135	17	0.50	127.50
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
FLASHER				0.50	--
TOTAL =					596.70

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'
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m+L-0.6m)=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	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)

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: KATHY NYSTROM
 PHONE: (847) 816-5489
 COMPANY: COM. ED.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THE FUTURE PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 US ROUTE 20 (LAKE STREET) & LOMBARD ROAD
 DRAWN BY: MJH
 DESIGNED BY: MJH
 SCALE: NONE
 DATE: 03/01/05
 CHECKED BY: RN