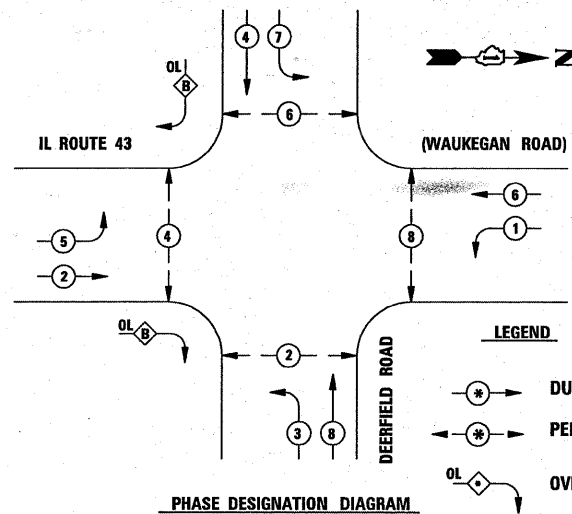


CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

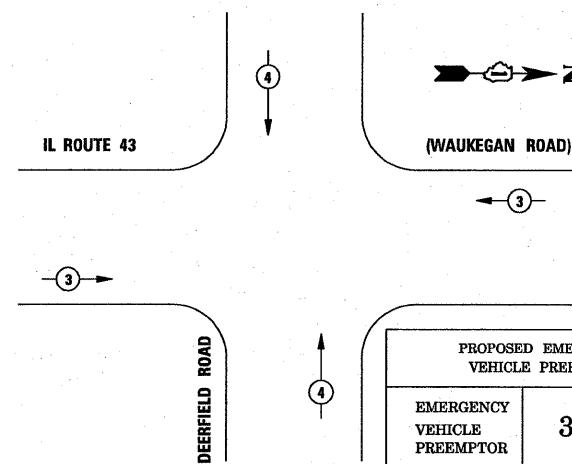
LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- OVERLAP PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5

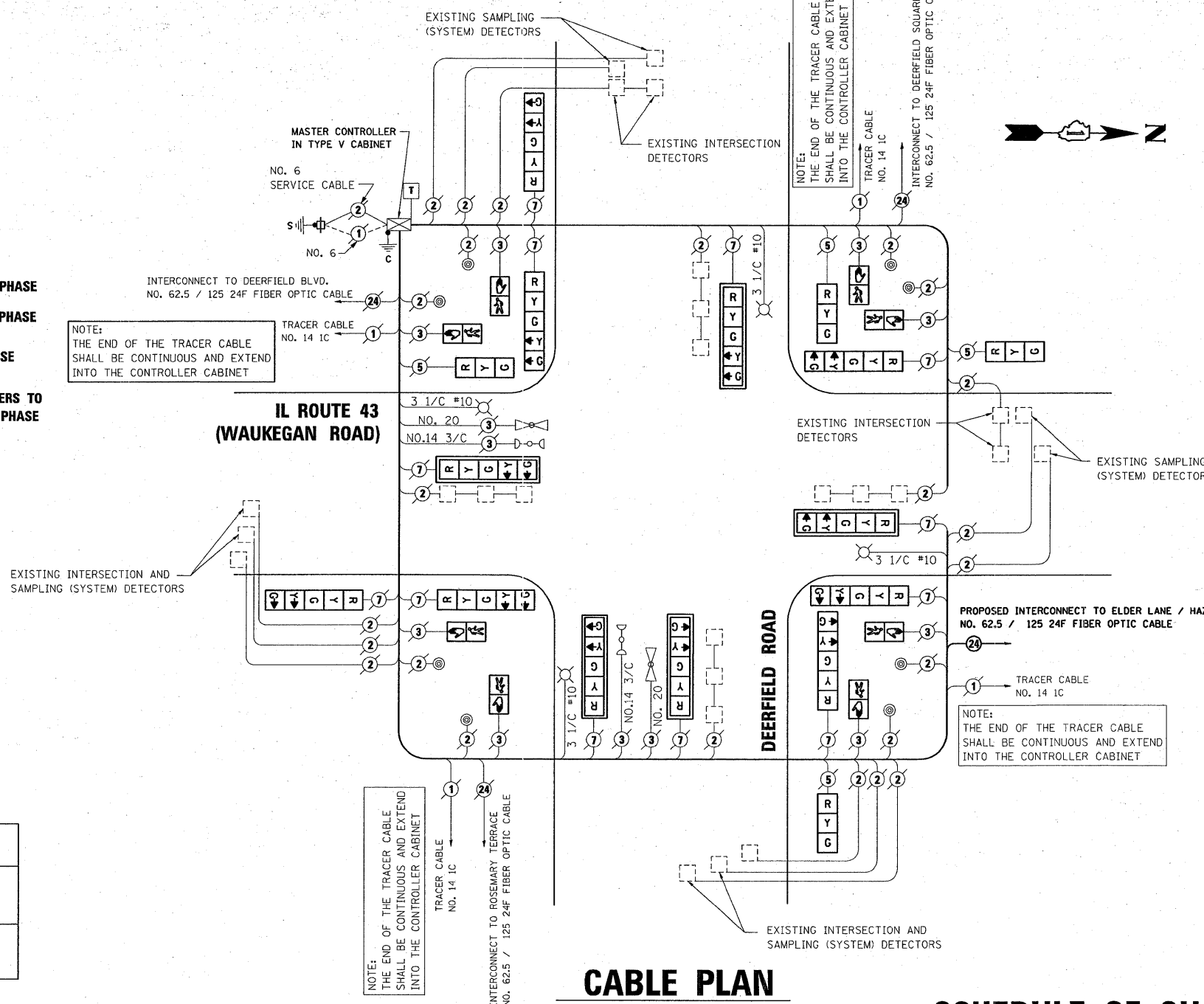
EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←→	↑↓

CABLE PLAN LEGEND

- | | PROPOSED | EXISTING |
|--|----------|----------|
| CONTROLLER CABINET | [Symbol] | [Symbol] |
| RAILROAD CONTROL CABINET | [Symbol] | [Symbol] |
| SERVICE INSTALLATION, (P) POLE OR (C) GROUND MOUNT | [Symbol] | [Symbol] |
| TELEPHONE CONNECTION | [Symbol] | [Symbol] |
| GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE | [Symbol] | [Symbol] |
| FIBER OPTIC CABLE IN CONDUIT, NUMBER OF FIBERS AS NOTED | [Symbol] | [Symbol] |
| ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED | [Symbol] | [Symbol] |
| GROUND CABLE IN CONDUIT NO. 6 COPPER (GREEN) | [Symbol] | [Symbol] |
| SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD | [Symbol] | [Symbol] |
| 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE | [Symbol] | [Symbol] |
| 12" (300mm) TRAFFIC SIGNAL SECTION | [Symbol] | [Symbol] |
| 12" (300mm) PEDESTRIAN SIGNAL SECTION | [Symbol] | [Symbol] |
| ILLUMINATED SIGN "NO LEFT TURN" | [Symbol] | [Symbol] |
| ILLUMINATED SIGN "NO RIGHT TURN" | [Symbol] | [Symbol] |
| PUSHBUTTON DETECTOR | [Symbol] | [Symbol] |
| DETECTOR LOOP | [Symbol] | [Symbol] |
| PERFORMED DETECTOR LOOP | [Symbol] | [Symbol] |
| MICROWAVE VEHICLE SENSOR | [Symbol] | [Symbol] |
| VIDEO DETECTOR | [Symbol] | [Symbol] |
| CLOSED CIRCUIT TV | [Symbol] | [Symbol] |
| EMERGENCY VEHICLE SYSTEM DETECTOR | [Symbol] | [Symbol] |
| CONFIRMATION BEACON | [Symbol] | [Symbol] |
| UN-INTERRUPTIBLE POWER SUPPLY (UPS) | [Symbol] | [Symbol] |



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	0.25
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	5
PERDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL II	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARROW	24	135	12	0.10	28.80
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAMBURG, ILLINOIS 60196-1096					TOTAL = 625.00
ENERGY SUPPLY CONTACT: PHONE: (847) 816-5248 COMPANY: COMED					

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 - FOUNDATION	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2' = (6m + L - 0.6m) =
C - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE SEQUENCE AND SCHEDULE OF QUANTITIES				F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 43 (WAUKEGAN RD.) @ DEERFIELD ROAD				2706	2006-020 TS	LAKE	29	9
SCALE: SHEET NO. OF SHEETS STA. TO STA.				C-91-351-06		CONTRACT NO. 60B48		
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				