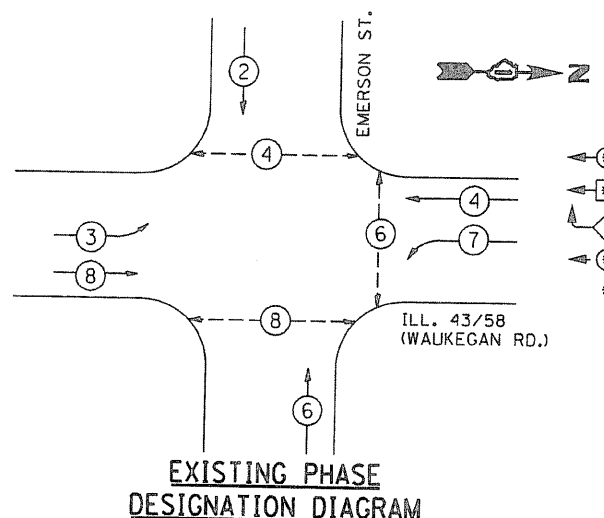


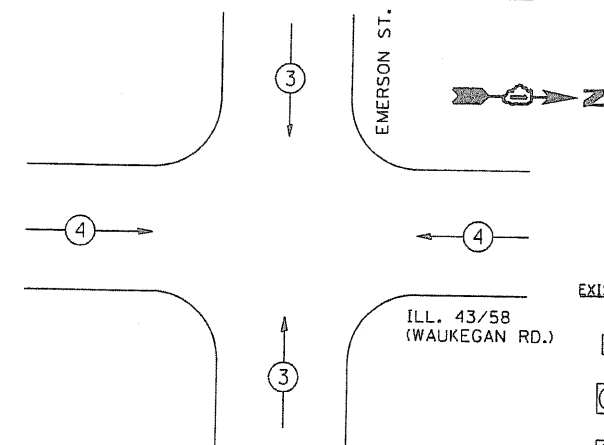
CONTROLLER SEQUENCE



- LEGEND**
- ⊕ DUAL ENTRY PHASE
 - ⊖ SINGLE ENTRY PHASE
 - OL OVERLAP
 - ⊙ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

EXISTING PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

CABLE PLAN LEGEND

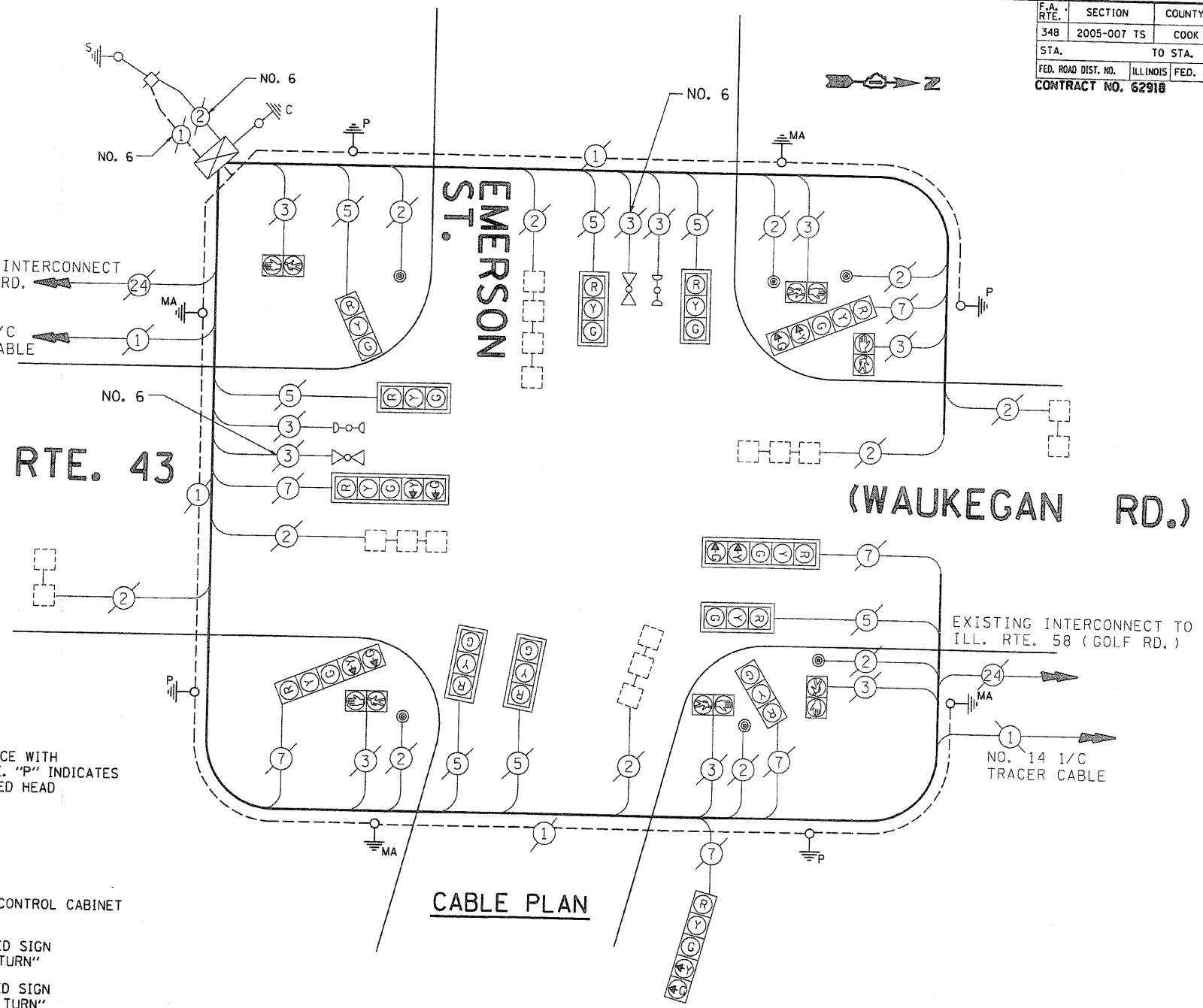
- | | |
|---|--|
| <p>EXISTING</p> <ul style="list-style-type: none"> ⊕ 8" (200mm) TRAFFIC SIGNAL SECTION ⊖ 12" (300mm) TRAFFIC SIGNAL SECTION ⊙ 12" (300mm) PEDESTRIAN SIGNAL SECTION ⊙ 12" (300mm) PEDESTRIAN SIGNAL SECTION ⊕ CONTROLLER CABINET ⊖ SERVICE INSTALLATION ⊙ TELEPHONE CONNECTION ⊙ MAGNETIC DETECTOR ⊙ EMERGENCY VEHICLE LIGHT DETECTOR ⊙ CONFIRMATION BEACON ⊙ PUSHBUTTON DETECTOR ⊙ VEHICLE DETECTOR, INDUCTION LOOP | <p>PROPOSED</p> <ul style="list-style-type: none"> ⊕ 8" (200mm) TRAFFIC SIGNAL SECTION ⊖ 12" (300mm) TRAFFIC SIGNAL SECTION ⊙ 12" (300mm) PEDESTRIAN SIGNAL SECTION ⊙ 12" (300mm) PEDESTRIAN SIGNAL SECTION ⊕ RAILROAD CONTROL CABINET ⊖ ILLUMINATED SIGN "NO LEFT TURN" ⊖ ILLUMINATED SIGN "NO RIGHT TURN" ⊙ GROUND ROD AT HANDHOLE(H), DOUBLE HANDHOLE(H), OR CONTROLLER(C) ⊙ GROUND ROD AT POST (P) OR MAST ARM POLE (MA) ⊙ GROUND ROD AT ELECTRIC SERVICE INSTALLATION ⊙ GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) ⊙ FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F |
|---|--|
- ① ② DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

EXISTING INTERCONNECT BECKWITH RD.

NO. 14 1/C TRACER CABLE

IL. RTE. 43

CABLE PLAN



EXISTING INTERCONNECT TO ILL. RTE. 58 (GOLF RD.)

NO. 14 1/C TRACER CABLE

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	0.11
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	0.11

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE (INCAN.)	OPERATION LED		
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	6	90	25	1.00	150.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =				481.60	

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: _____

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+L-0.6m)=
E - M. ARM POLE		SIGNAL POST 2 (0.6)	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)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE 1 (0.5)	SERVICE TO GROUND 13.5 (4.1)
		GROUND CABLE 1 (0.5)	POST MOUNTED 6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE,
AND SCHEDULE OF QUANTITIES
ILL. RTE. 43(WAUKEGAN RD.)
AT EMERSON STREET

SCALE: VERT. N.T.S.
HORIZ. _____
DATE 8/13/2007

DRAWN BY BCK
DESIGN BY BCK
CHECKED BY DAD