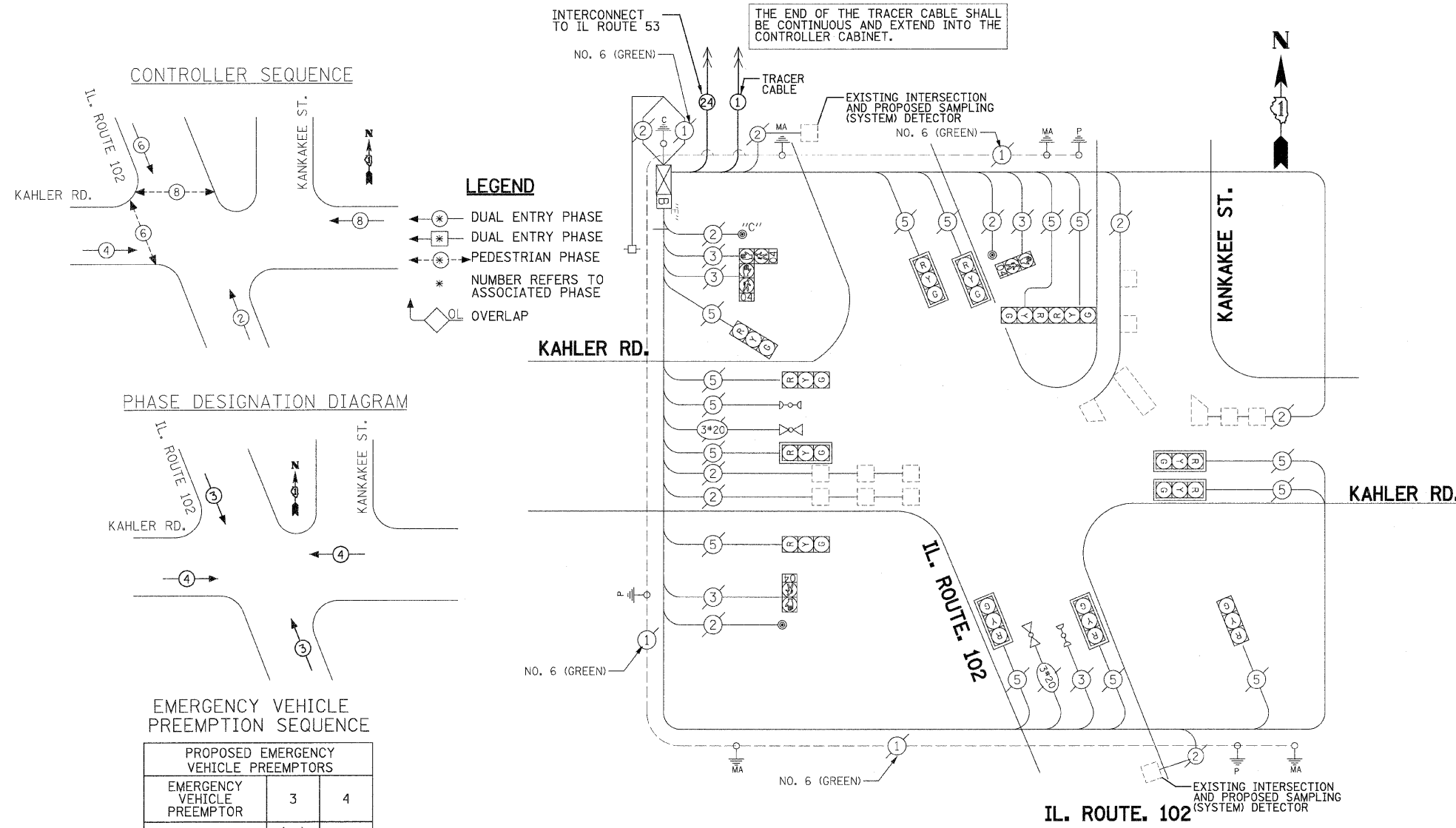
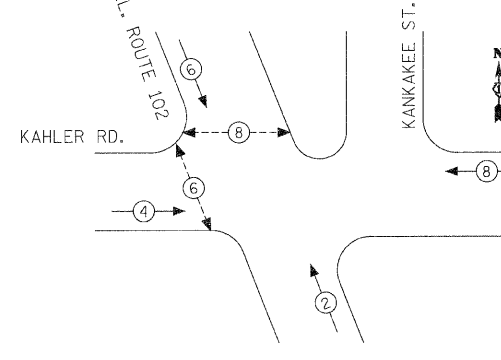


PROPOSED CABLE PLAN



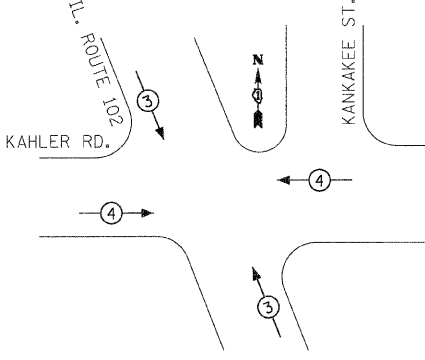
CONTROLLER SEQUENCE



LEGEND

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

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

CABLE PLAN LEGEND

- EXISTING PROPOSED
- ⊗ 8" (200mm) TRAFFIC SIGNAL SECTION
 - ⊗ 12" (300mm) TRAFFIC SIGNAL SECTION
 - ⊗ 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - ⊗ 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
 - ⊗ 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.
 - ⊗ 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
 - ⊗ 24 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 (H), OR CONTROLLER (C)
 - ⊗ GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
 - ⊗ GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 - ⊗ VIDEO VEHICLE SENSOR
 - ⊗ "E" UNINTERRUPTIBLE POWER SUPPLY

NOTE:
1. PUSH BUTTON "C" SHALL PLACE A CALL TO PHASES 6 AND 8.

RESTORATION OF WORK AREA

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

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

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
1.0	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
0.25	L SUM	MOBILIZATION
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
1.0	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1.0	EACH	DRILL EXISTING HANDHOLE
25.7	SQ FT	TEMPORARY INFORMATION SIGNING
1.0	EACH	TRANSCIVER - FIBER OPTIC

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	-	135	12	0.10	-
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	440.5

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'-L-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)
36" (900mm)	15 (4.6)	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)