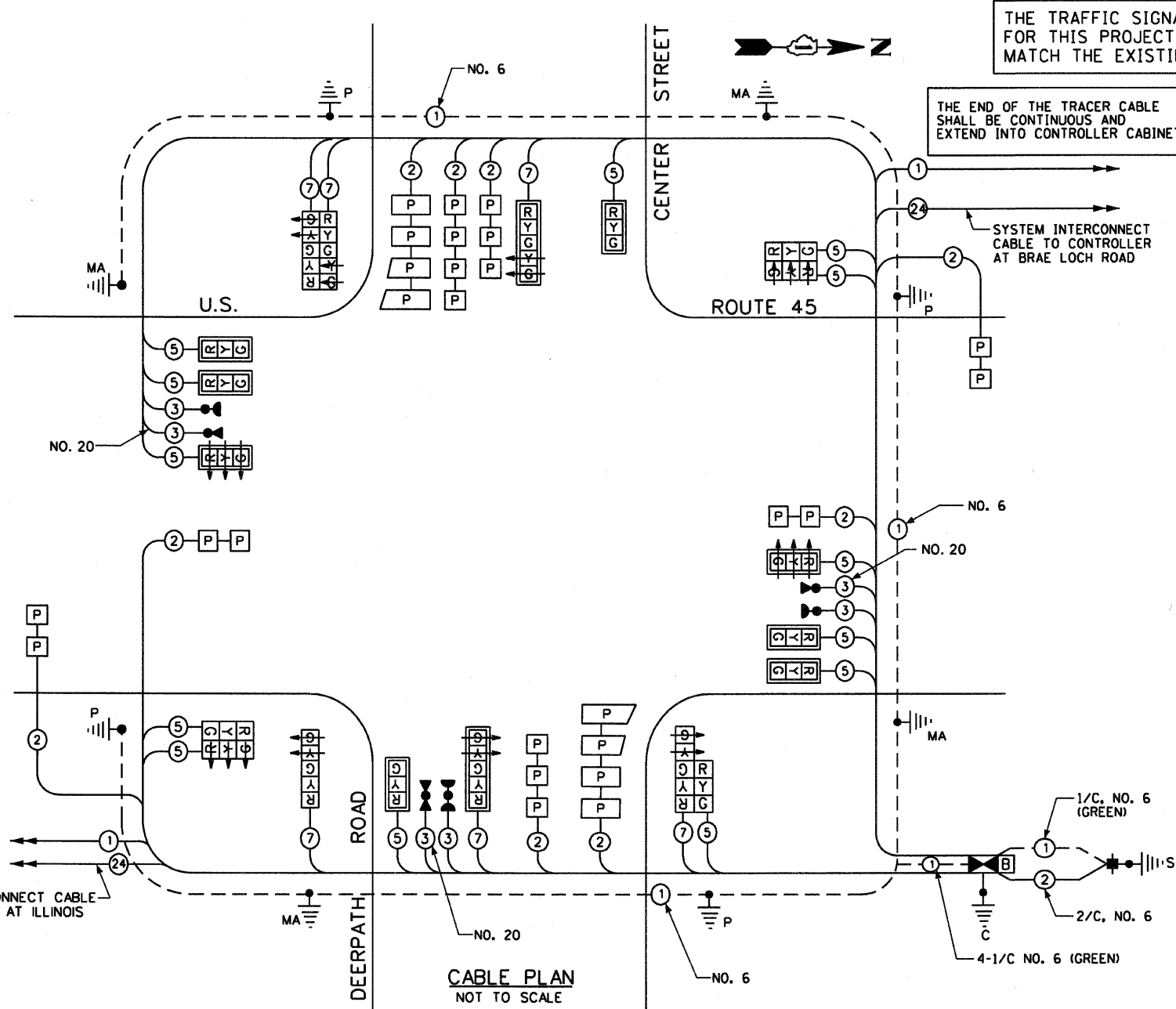


RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
344	(46-15&47)WRS-2	LAKE	234	133
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60956				

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
68	SO. FT.	SIGN PANEL-TYPE 1
545	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
91	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
46	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
66	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
418	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
7	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
669	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2521	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1298	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2061	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR
36	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
569	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
2	EACH	TRAFFIC SIGNAL POST, 14 FT.
2	EACH	TRAFFIC SIGNAL POST, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
60	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
8	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
1128	FOOT	PREFORMED DETECTOR LOOP
1	FOOT	TEMPORARY TRAFFIC SIGNAL INSTALLATION
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1	EACH	SERVICE INSTALLATION, POLE MOUNT
634	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
669	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING



CABLE PLAN LEGEND

EXISTING **PROPOSED**

- 8" TRAFFIC SIGNAL SECTION
- 12" TRAFFIC SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- P PREFORMED LOOP
- 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
- SIGNAL FACE WITH BACKPLATE
- "P" INDICATES PROGRAMMED HEAD
- NO. 62.5/125, 12MM, 12SM FIBER OPTIC CABLE
- NO. 14 1/C TRACER CABLE
- H/C GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
- P GROUND ROD AT POST OR MAST ARM POLE
- S GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND CABLES NO.6 1C GREEN
- UNINTERRUPTIBLE POWER SUPPLY

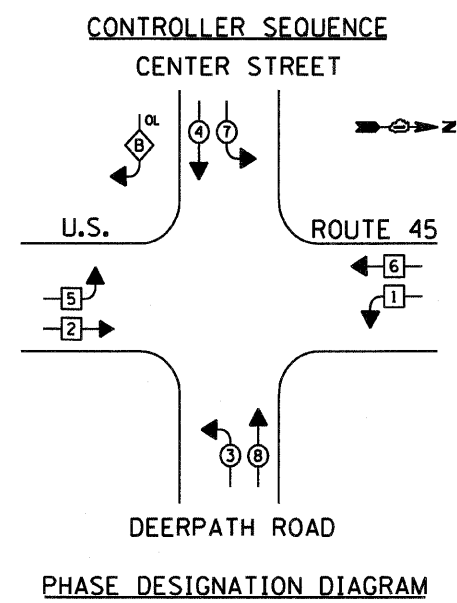
EMERGENCY VEHICLE PREEMPTION SEQUENCE

SYSTEM INTERCONNECT CABLE TO CONTROLLER AT ILLINOIS ROUTE 120

CABLE PLAN NOT TO SCALE

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	x WATTAGE		x % OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	19	135	17	0.50	162
(YELLOW)	19	135	25	0.25	119
(GREEN)	19	135	15	0.25	72
ARROW	12	135	12	0.10	15
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		64		0.05	0
TOTAL =					460

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SHALMBURG, IL 60196

CONTACT: MS. LOIS HICKS
PHONE: (847) 816-5489
COMPANY: COMMONWEALTH EDISON 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)
C-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20+L-2=
E-MAST ARM POLE	4 (1.2)	SIGNAL POST	2 (4.0)		(6m+L-0.6m)=
24" (600 mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900 mm)	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)

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
SCHEDULE OF QUANTITIES
PHASE DESIGNATION DIAGRAM

U.S. ROUTE 45 & CENTER STREET/DEERPETH ROAD

DATE: 12/14/09
DRAWN BY: MB/AJP
CHECKED BY: KMM

SCALE IN FEET

