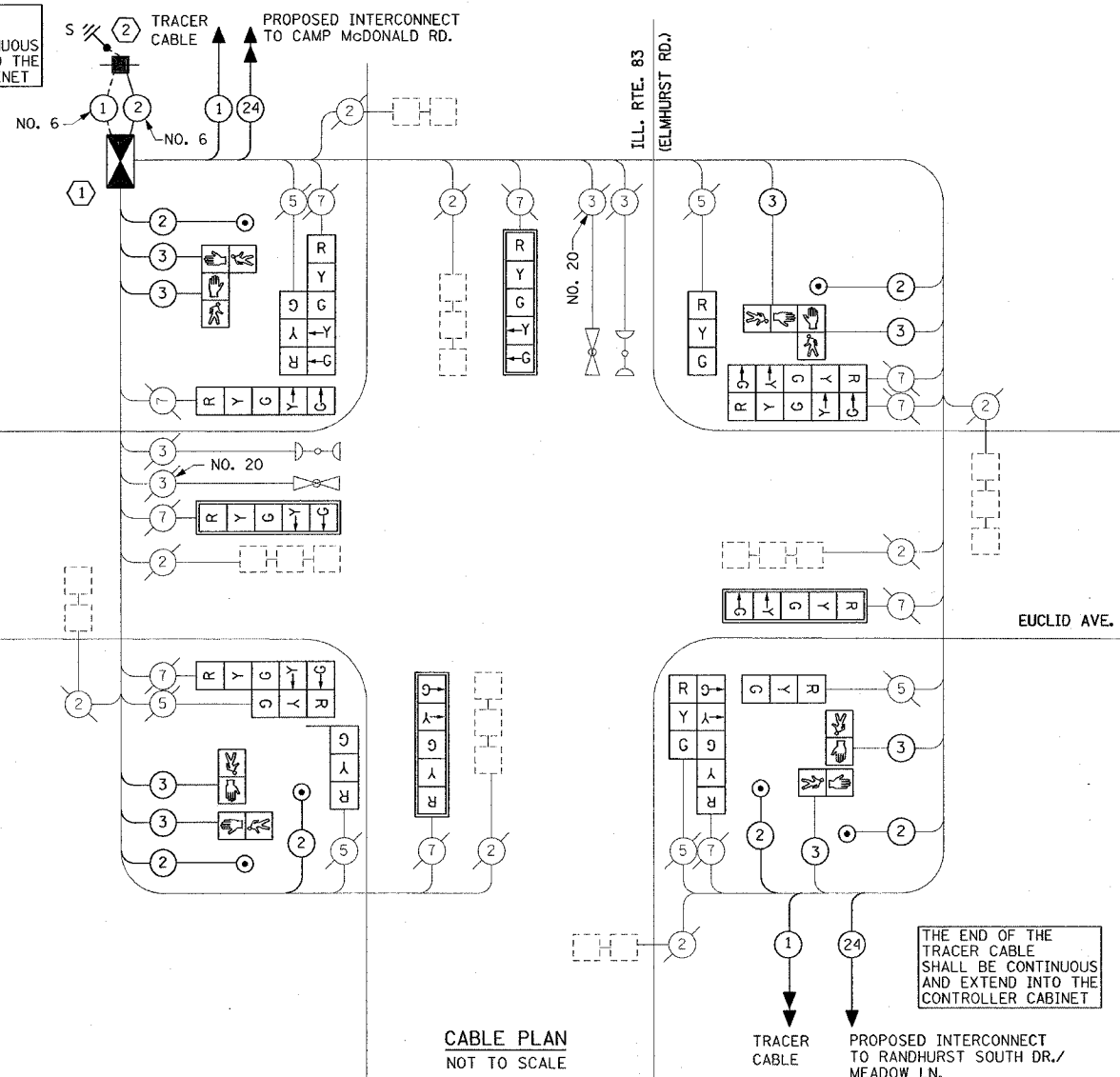


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2004-017TS	COOK	38	26
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT #62736				

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET



CABLE PLAN NOT TO SCALE

CABLE PLAN LEGEND

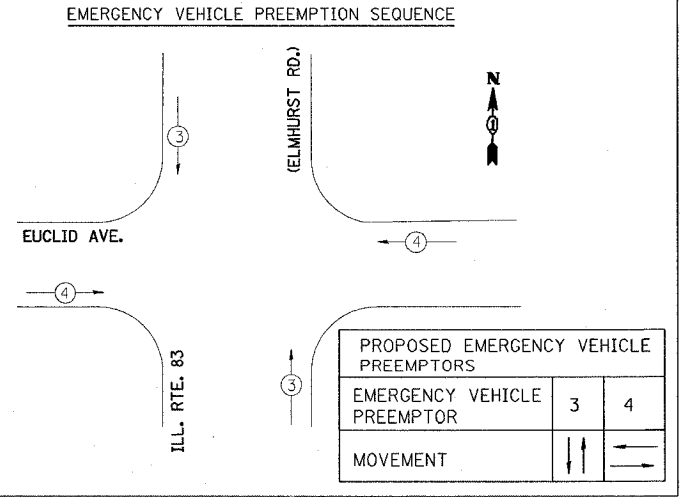
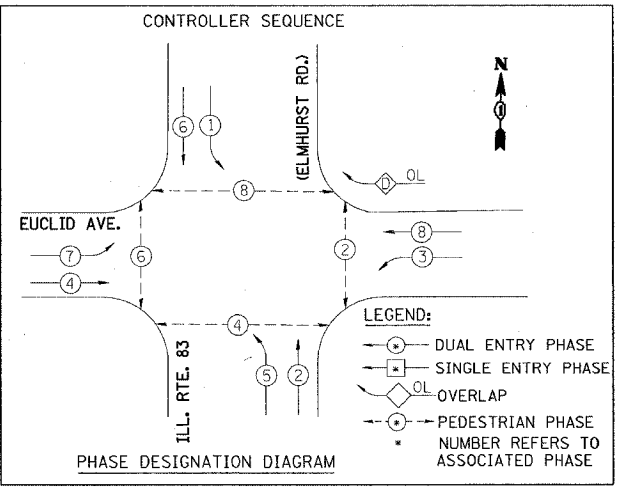
- | EXISTING | PROPOSED |   |
|----------|----------|---|
|          |          | 8" (200mm) TRAFFIC SIGNAL SECTION   |
|          |          | 12" (300mm) TRAFFIC SIGNAL SECTION  |
|          |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION   |
|          |          | CONTROLLER CABINET  |
|          |          | SERVICE INSTALLATION  |
|          |          | VEHICLE DETECTOR, INDUCTION LOOP  |
|          |          | TELEPHONE INSTALLATION  |
|          |          | MAGNETIC DETECTOR   |
|          |          | EMERGENCY VEHICLE LIGHT DETECTOR  |
|          |          | CONFIRMATION BEACON   |
|          |          | PUSHBUTTON DETECTOR   |
|          |          | 2 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 2-MMI2F SMI2F  |
|          |          | SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.   |
|          |          | RAILROAD CONTROL CABINET  |
|          |          | ILLUMINATED SIGN "NO LEFT TURN"   |
|          |          | ILLUMINATED SIGN "NO RIGHT TURN"  |
|          |          | H/C GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)  |
|          |          | P GROUND ROD AT POST (P) OR MAST ARM POLE (MA)  |
|          |          | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |

SCHEDULE OF QUANTITIES

ITEM	UNIT	QNTY.
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	0.11
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	0.11
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	0.11
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	0.11
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	134
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	134
INDUCTIVE LOOP DETECTOR	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	115
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	3
SIGNAL HEAD, L.E.D., 2-FACE, 2-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN PUSH BUTTON	EACH	6
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	780
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1560
TRAFFIC SIGNAL BACK PLATE, LOUVERED, ALUMINUM	EACH	4
THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	156
MEDIAN REMOVAL	SQ. FT.	38
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	4
THERMOPLASTIC PAVEMENT MARKING - 4"	FOOT	663
PAVEMENT REPLACEMENT	SQ. YD.	4.6
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ. FT.	76

NOTE: THE PROPOSED TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "ECONOLITE".

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE 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	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84	35	0.05	
FLASHER		135	25	0.50	
TOTAL =					615.00



ENERGY COST TO: Illinois Department of Transportation  
Division of Highways / District 1  
201 W Center Court / Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: MS. JUDY SCHOMER  
PHONE: (847)-870-2063  
COMPANY: ComEd

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (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-H-0.6m)=
E - M. ARM POLE		SIGNAL POST 2 (0.6)	BRACKET MOUNTED 13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB. 1 (0.3)	PED. PUSHBUTTON 4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC CAB. 13 (4.0)	ELECTRIC SERVICE 13.5 (4.1)
		ELECTRIC SERVICE 1 (0.3)	SERVICE TO GROUND 13.5 (4.1)
		GROUND CABLE 1 (0.3)	POST MOUNTED 6 (1.8)

- CONSTRUCTION NOTES:
- REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW CONTROLLER AND TYPE IV CABINET. RE-USE EXISTING FOUNDATION. RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT TO NEW CONTROLLER CABINET INCLUDED IN COST OF THE NEW CONTROLLER AND CABINET.
  - REMOVE EXISTING SERVICE CABLE AND SERVICE. INSTALL NEW SERVICE, SERVICE CABLE AND GROUND CABLE.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES ILL. ROUTE 83 (ELMHURST RD.) AT EUCLID AVE.  SCALE: NONE DATE: 3/22/2005  DRAWN BY: BCK DESIGNED BY: SM CHECKED BY: DAD

c:\projects\traffic\0130000\1183.m32 3/22/2005