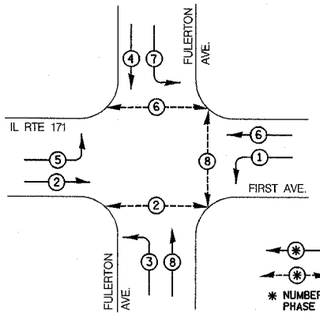
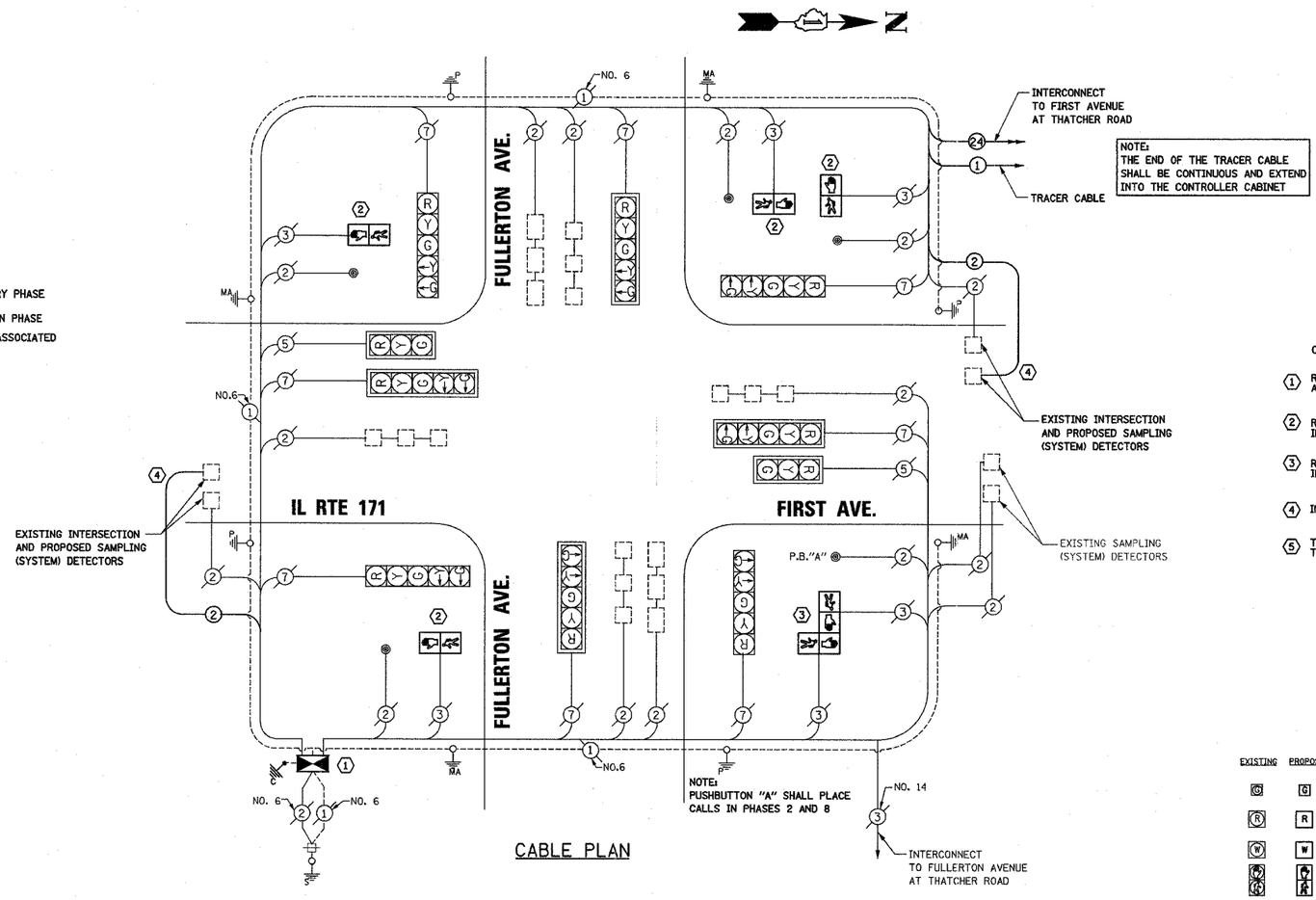
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2006-039TS	COOK	36	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C01

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



CABLE PLAN

CONSTRUCTION NOTES:

1. REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW LOCAL CONTROLLER AND TYPE IV CABINET, RE-USE EXISTING FOUNDATION.
2. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED, INSTALL NEW PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET-MOUNTED.
3. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED, INSTALL NEW PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET-MOUNTED.
4. INSTALL NEW ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14, 1 PAIR.
5. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

CABLE PLAN LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
8	8	8" (200mm) TRAFFIC SIGNAL SECTION	1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
12	12	12" (300mm) TRAFFIC SIGNAL SECTION	24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION	R Y G "P" "L"	R Y G "P"	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		12" (300mm) PEDESTRIAN SIGNAL SECTION		R Y G "L"	SIGNAL FACE WITH BACKPLATE, "L" INDICATES LOUVRE
		CONTROLLER CABINET	"E"		RAILROAD CONTROL CABINET
		SERVICE INSTALLATION	"E"		ILLUMINATED SIGN "NO LEFT TURN"
T	T	TELEPHONE CONNECTION	"E"		ILLUMINATED SIGN "NO RIGHT TURN"
		VEHICLE DETECTOR, INDUCTION LOOP	H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		MAGNETIC DETECTOR	P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		EMERGENCY VEHICLE LIGHT DETECTOR	S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		CONFIRMATION BEACON			MICROWAVE VEHICLE SENSOR
		PUSHBUTTON DETECTOR			
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOOP DETECTOR CABLE TO BE SHIELDED.			

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
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, LEAD-IN, NO. 14 1 PAIR	FOOT	756
PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	12
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

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

TYPE	NO. LAMPS	WATTAGE X INCAND.	WATTAGE LED	X % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135		0.50	675
(YELLOW)	10	135		0.25	337.5
(GREEN)	10	135		0.25	337.5
ARROW	16	135		0.10	216
PED. SIGNAL	6	90		1.00	540
CONTROLLER	1	100		1.00	100
			TOTAL =		2206

ENERGY COSTS - BILLED TO: _____
(ADDRESS) _____

ENERGY SUPPLY - CONTACT: LARRY KESLINKE
PHONE: (708) 410-5314
COMPANY: COM ED

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 =
C - 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)
		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)

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

SETON ENGINEERING
SERVICE CORPORATION
CIVIL ENGINEERS
19 S. BOTHWELL STREET
PALATINE, ILLINOIS 60067
VOICE: 847-776-7200 FAX: 847-776-7239

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES

IL RTE 171 (1ST AVENUE) AT FULLERTON AVENUE
RIVER GROVE, ILLINOIS

SCALE: N.T.S.
DATE 10-23-06
DRAWN BY CWC, BR
DESIGNED BY VO
CHECKED BY TJM