

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	2005-007 TS	COOK	26	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62918				

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	0.11
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	0.11
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
TRANSCIVER-FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1 C	FOOT	294
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2 C	FOOT	294
INDUCTIVE LOOP DETECTOR	EACH	16
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	270
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
UNINTERRUPTABLE POWER SUPPLY (UPS)	EACH	1

PUSHBUTTON NOTES:

- PUSHBUTTONS 'A' SHALL PLACE A CALL IN PHASES 2 AND 8.
- PUSHBUTTONS 'B' SHALL PLACE A CALL IN PHASES 6 AND 8.
- PUSHBUTTONS 'C' SHALL PLACE A CALL IN PHASES 4 AND 6.
- PUSHBUTTONS 'D' SHALL PLACE A CALL IN PHASES 2 AND 4.

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
			CONTROLLER CABINET
			SERVICE INSTALLATION
			TELEPHONE CONNECTION
			MAGNETIC DETECTOR
			EMERGENCY VEHICLE LIGHT DETECTOR
			CONFIRMATION BEACON
			PUSHBUTTON DETECTOR
			VEHICLE DETECTOR, INDUCTIVE LOOP
			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
			FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
			UNINTERRUPTABLE POWER SUPPLY

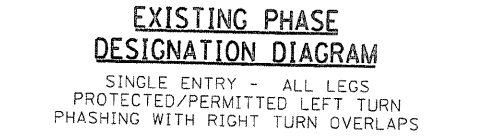
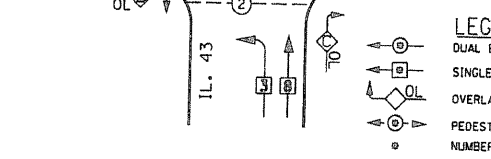
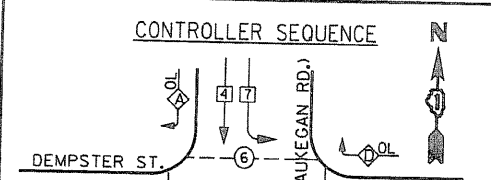
- #### CONSTRUCTION NOTES:
- REMOVE EXISTING CONTROLLER AND CABINET. INSTALL A NEW CONTROLLER TYPE IV CABINET AND UPS. RE-USE EXISTING FOUNDATION.
 - REMOVE EXISTING SERVICE CABLE AND SERVICE. INSTALL NEW SERVICE, SERVICE CABLES, AND GROUND CABLES.

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-
E - M. ARM POLE			SIGNAL POST	2	(1.0)			
	24"	(600mm)	CONTROLLER CAB.	1	(0.5)	BRACKET MOUNTED	13	(4.0)
	30"	(750mm)	FIBER OPTIC	13	(4.0)	PED. PUSHBUTTON	4	(1.2)
	36"	(900mm)	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 "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

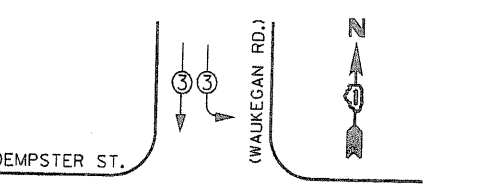
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE,
AND SCHEDULE OF QUANTITIES
IL. 43 (WAUKEGAN RD.) AT
US 14 (DEMPSTER ST.)
SCALE: VERT. 1"=20'
HORIZ. 1"=20'
DATE 8/13/2007
DRAWN BY BCK
DESIGN BY BCK
CHECKED BY DAD



RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	4 +	5
B =	2 +	3
C =	8 +	1
D =	6 +	7



EXISTING PRIORITY LANES

PRIORITY LANE INTERVAL	3	4	5	6
MOVEMENT				

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

TYPE	NO. LAMPS	WATTAGE INCAND. LED	% OPERATION	TOTAL WATTAGE	
SIGNAL (RED)	22	135	17	0.50	187.00
(YELLOW)	22	135	25	0.25	137.50
(GREEN)	22	135	15	0.25	82.50
ARROW	32	135	12	0.10	38.40
PED. SIGNAL	16	90	25	1.00	400.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =				945.40	

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196-1096
CONTACT: LARRY D. SHANK
PHONE: (847) 291-3214
COMPANY: CQM, EDISON

PLOT DATE: 8/13/2007
PLOT SCALE: 1"=20'
REFERENCE: 018778