

TIME: 07:59:30 AM

DATE: 06/06/2005

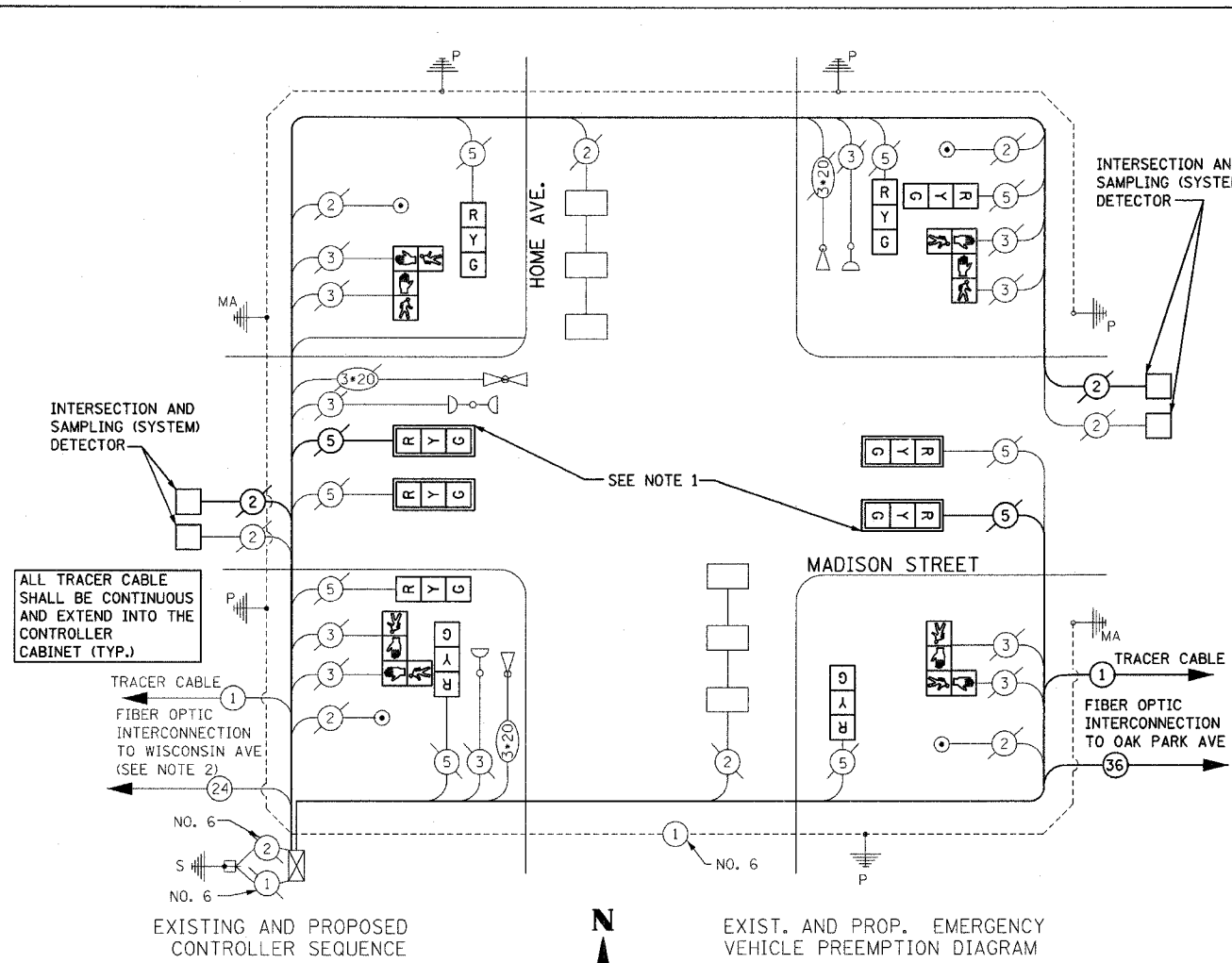
FILENAME: s:\@061751-900784\332\micros\cable_plans\home.dgn

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1419	04-00239-00-TL	COOK	34	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	173
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	104
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	320
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	592
DRILL EXISTING HANDHOLE	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	152
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4

THE CONTRACTOR SHALL REPLACE ALL EXISTING SIGNAL HEADS AND PEDESTRIAN SIGNAL HEADS WITH L.E.D. (LIGHT EMITTING DIODE) SIGNAL HEADS.

1. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGNAL HEADS AT A NEW LOCATION ON THE MAST ARM. THE SIGNAL HEAD SHALL ALIGN WITH THE PARKING BAY DELINEATION LOCATED 7' FROM THE EDGE OF PAVEMENT. THE EXISTING STREET NAME SIGN SHALL BE RELOCATED TO ACCOMMODATE THE NEW SIGNAL HEAD ACCORDING TO HIGHWAY STANDARD 877001-01 STEEL MAST ARM ASSEMBLY AND POLE. RELOCATION OF THE STREET NAME SIGN SHALL BE INCIDENTAL TO SIGNAL HEAD INSTALLATION AND SHALL NOT BE PAID FOR SEPARATELY.
2. THE CONTRACTOR SHALL RE-CONNECT THE EXISTING FIBER OPTIC CABLE IN PLACE BETWEEN WISCONSIN AVENUE AND HOME AVENUE TO THE CONTROLLER AT HOME AVENUE.

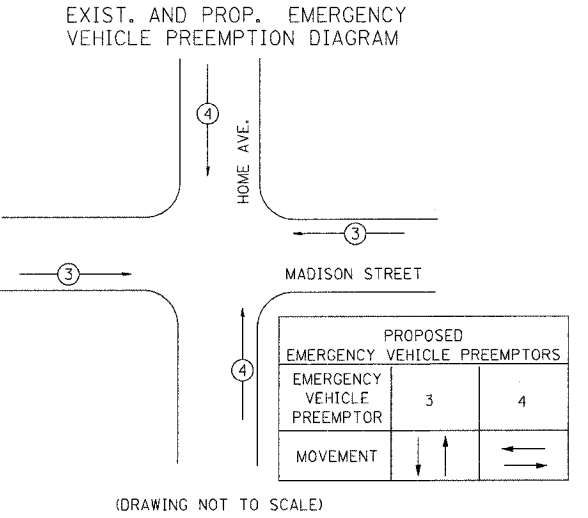
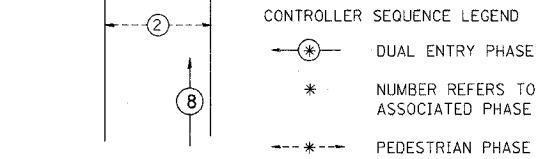


CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(C)	(G)	8" (200mm) TRAFFIC SIGNAL SECTION
(R)	(R)	12" (300mm) TRAFFIC SIGNAL SECTION
(W)	(W)	12" (300mm) PEDESTRIAN SIGNAL SECTION (LETTERS)
(S)	(S)	12" (300mm) PEDESTRIAN SIGNAL SECTION (SYMBOLS)
(CAB)	(CAB)	CONTROLLER CABINET
(SVC)	(SVC)	SERVICE INSTALLATION
(TEL)	(TEL)	TELEPHONE INSTALLATION
(VLD)	(VLD)	VEHICLE DETECTOR, INDUCTIVE LOOP
(MD)	(MD)	MAGNETIC DETECTOR
(EVL)	(EVL)	EMERGENCY VEHICLE LIGHT DETECTOR
(CB)	(CB)	CONFIRMATION BEACON
(PB)	(PB)	PUSHBUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(36)	(36)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
(R Y G)	(R Y G)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
(H)	(H)	GROUND CABLE ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
(P)	(P)	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
(S)	(S)	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

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

TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	8		17	0.50	68
(YELLOW)	8		25	0.25	50
(GREEN)	8		15	0.25	30
ARROW	0		12	0.10	0
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN				0.05	0



ENERGY COSTS TO: TOTAL = 448

VILLAGE OF OAK PARK

ENERGY SUPPLY CONTACT: _____
 PHONE: _____
 COMPANY: Commonwealth Edison

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' (6m+L-0.6m)
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
	24" (600 mm)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
	30" (750 mm)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRICAL SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		FAU 1419 MADISON STREET CABLE PLAN MADISON STREET & HOME AVENUE

SCALE: VERT. _____
 HORIZ. _____
 DATE: 06/06/2005

DRAWN BY: KCV
 CHECKED BY: _____

TRAFFIC SIGNAL PLAN