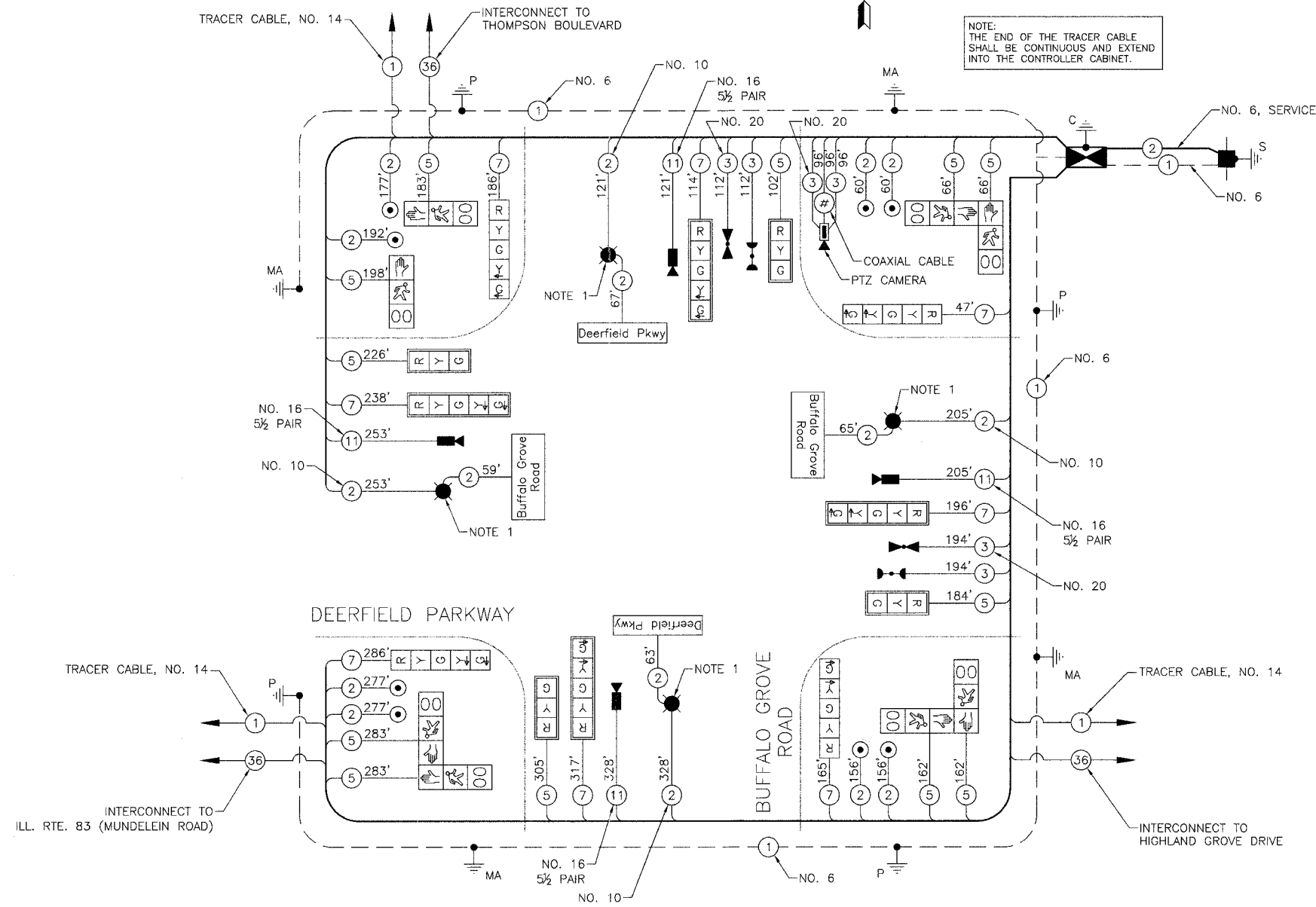


W.P.#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH	A47	LAKE	176	89
STA.		TO STA.		
03-00088-00-FP		ILLINOIS	SURFACE TRANSPORTATION FUNDING	
CONTRACT NUMBER 83807				

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" TRAFFIC SIGNAL SECTION
		12" PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		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.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC, "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC, "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRICAL SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM24F & SM12F
		BELDEN 8281 COAXIAL CABLE
		PROPOSED IMAGE SENSOR
		PROPOSED STREET LIGHT LUMINAIRE
		PROPOSED DOME PAN/TILT/ZOOM (PTZ) CAMERA



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

CABLE PLAN
NOT TO SCALE

NOTE 1: THE 2C NO. 14 CABLE FOR THE L.E.D. ILLUMINATED STREET NAME SIGN SHALL BE CONNECTED TO THE PHOTOCCELL FOR THE LUMINAIRE.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" BRAND TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS*	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
VIDEO SYSTEMS	1		150	1.00	150
LUMINAIRE	4	400		0.50	800
ILLUM. SIGN	4		60	0.50	120
FLASHER				0.50	
TOTAL =					1611

ENERGY COSTS TO: VILLAGE OF BUFFALO GROVE
51 RAUPP BOULEVARD
BUFFALO GROVE, IL 60089
CONTACT: DOROTHY PROSEN
PHONE: (847) 816-5323
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 - 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)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE
REVISION 1	6/10/05

VILLAGE OF BUFFALO GROVE

TRAFFIC SIGNAL CABLE PLAN
DEERFIELD PARKWAY & BUFFALO GROVE ROAD

DATE: 6/2/2005
DESIGNED BY: JJE
TECHNICIAN: JJE
CHECKED BY: KMM

SCALE: NOT TO SCALE