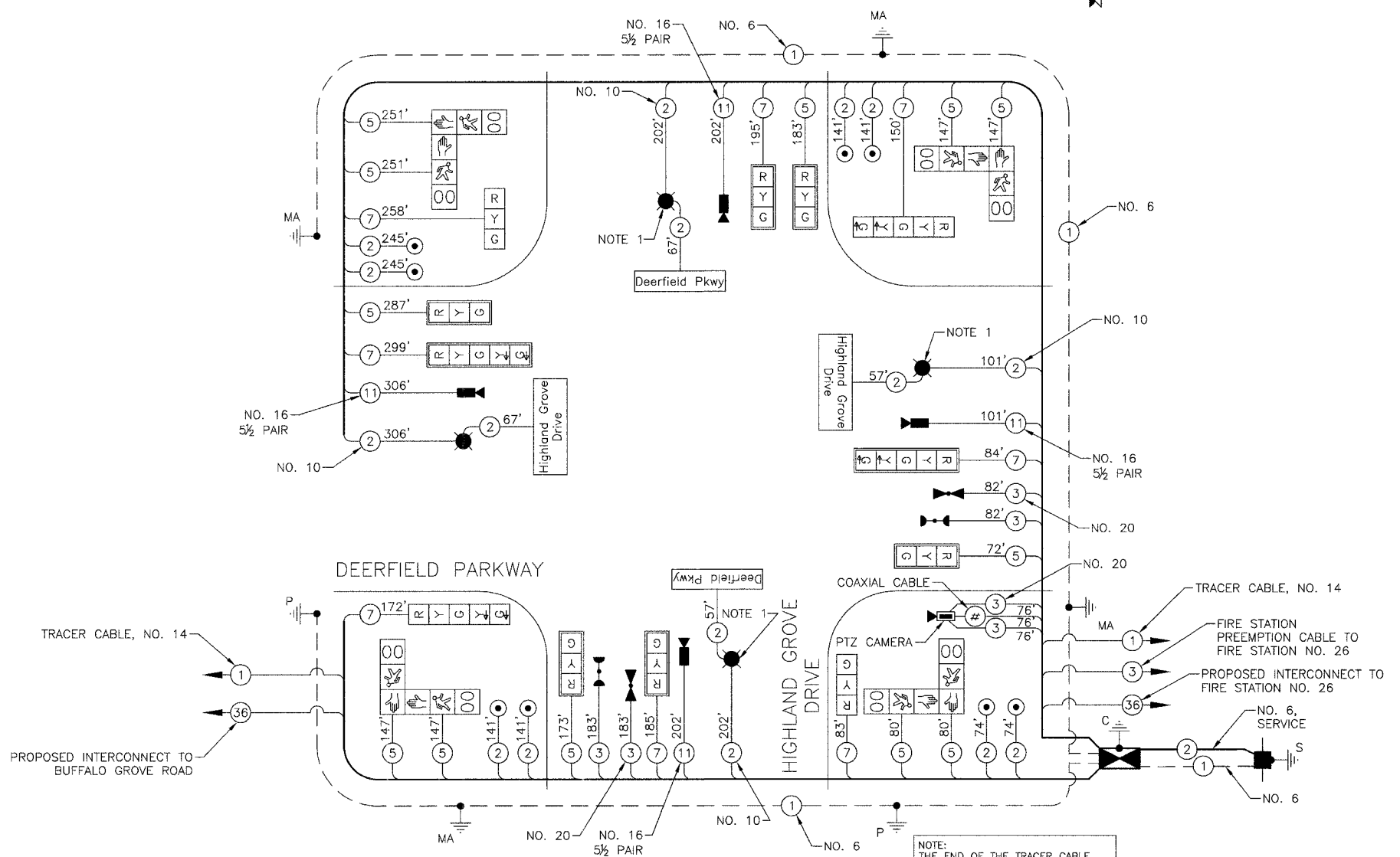


FILE#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH	A47	LAKE	176	93
STA.	TO STA.	LINDER SURFACE TRANSPORTATION FUNDING		
03-00088-00-FP		CONTRACT NUMBER 83807		

**CABLE PLAN LEGEND**

- | EXISTING | PROPOSED |  |
|----------|----------|--|
|          |          | 8" TRAFFIC SIGNAL SECTION  |
|          |          | 12" 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<br>ALL CABLE NO. 14 EXCEPT AS INDICATED.<br>ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|          |          | SIGNAL FACE WITH BACKPLATE<br>"P" INDICATES PROGRAMMED HEAD.   |
|          |          | RAILROAD CONTROL CABINET   |
|          |          | ILLUMINATED SIGN, FIBER OPTIC,<br>"NO LEFT TURN"   |
|          |          | ILLUMINATED SIGN, FIBER OPTIC,<br>"NO RIGHT TURN"  |
|          |          | GROUND ROD AT HANDHOLE,<br>DOUBLE HANDHOLE, OR CONTROLLER  |
|          |          | GROUND ROD AT POST OR<br>MAST ARM POLE   |
|          |          | GROUND ROD AT ELECTRICAL<br>SERVICE INSTALLATION   |
|          |          | GROUND CABLE IN CONDUIT, NO. 6<br>SOLID COPPER (GREEN)   |
|          |          | FIBER OPTIC CABLE IN CONDUIT<br>NO. 62.5/125 MM24F & SM12F   |
|          |          | BELDEN 8281 COAXIAL CABLE  |
|          |          | PROPOSED IMAGE SENSOR  |
|          |          | PROPOSED STREET LIGHT LUMINAIRE  |
|          |          | PROPOSED DOME PAN/TILT/ZOOM (PTZ) CAMERA   |



**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 PHOTOCELL FOR THE LUMINAIRE.
- NOTE 2: THE EMERGENCY VEHICLE PUSHBUTTON PREEMPTORS IN FIRE STATION NO. 26 ACTIVATE PREEMPTION PHASE 3 AT THE HIGHLAND GROVE INTERSECTION IN ADDITION TO THE DRIVEWAY SIGNALS AT THE FIRE STATION.

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	8		12	0.10	10
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 =					1602

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' =
E - 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)

ENERGY COSTS TO: VILLAGE OF BUFFALO GROVE  
51 RAUPP BOULEVARD  
BUFFALO GROVE, IL 60089  
CONTACT: DOROTHY PROSEN  
PHONE: (847) 816-5323  
COMPANY: COM ED

REVISIONS	
NAME	DATE
REVISION 1	6/10/05

VILLAGE OF BUFFALO GROVE

**TRAFFIC SIGNAL CABLE PLAN**  
**DEERFIELD PARKWAY & HIGHLAND GROVE DRIVE**

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

SCALE: NOT TO SCALE