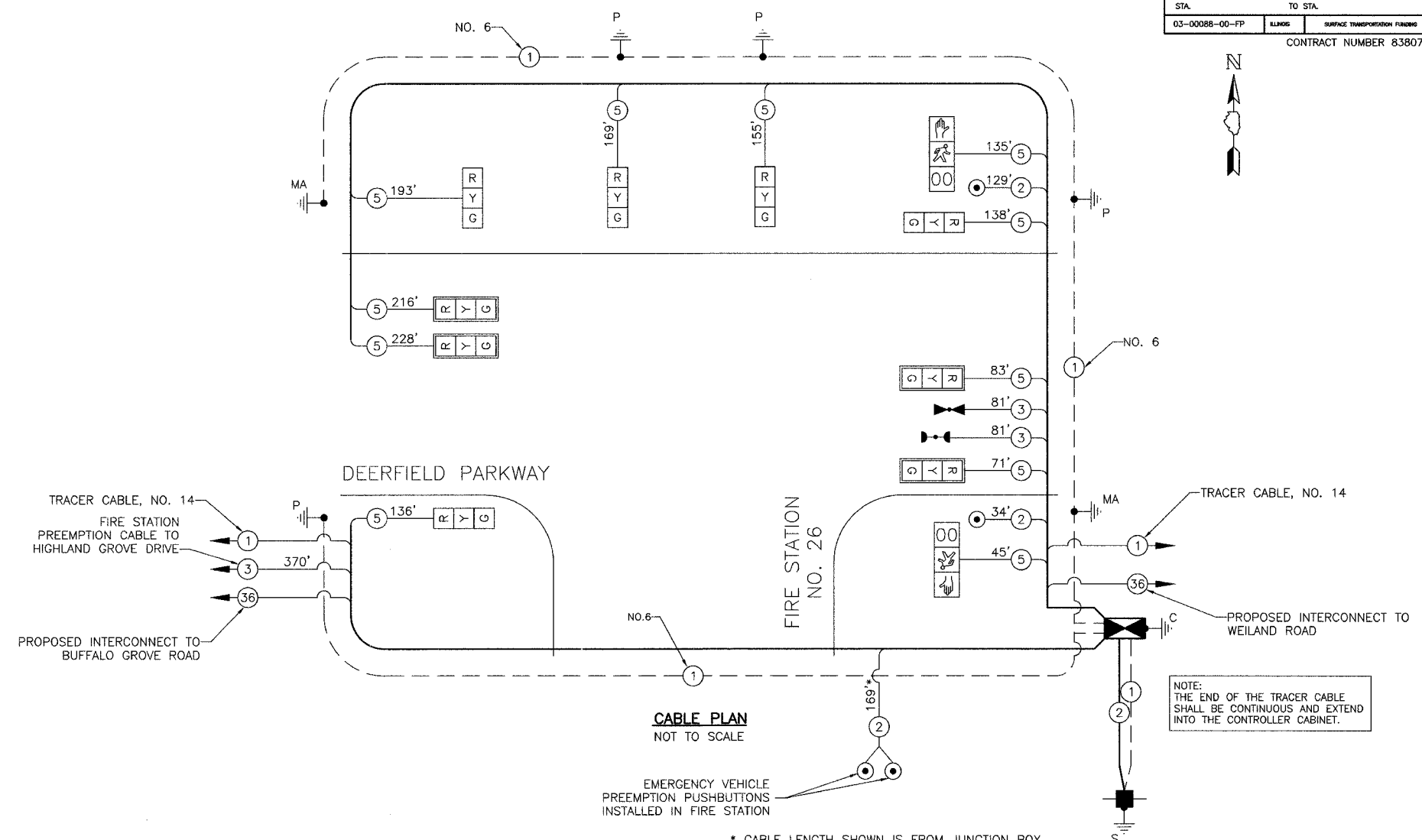


FILE#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH	A47	LAKE	176	96
STA.	TO STA.			
03-00088-00-FP	ELANDS	SURFACE TRANSPORTATION FUNDING		
CONTRACT NUMBER 83807				

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		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 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



**CABLE PLAN**  
NOT TO SCALE

\* CABLE LENGTH SHOWN IS FROM JUNCTION BOX MOUNTED INSIDE FIRE STATION TO CONTROLLER CABINET. REMAINING CABLE LENGTH REQUIRED FOR PUSHBUTTON INSTALLATION IS INCIDENTAL TO THE PAY ITEM "EMERGENCY PREEMPTION PUSH-BUTTON INSTALLATION".

NOTE: THE EMERGENCY VEHICLE PUSHBUTTON PREEMPTORS IN THE FIRE STATION ACTIVATE PREEMPTION PHASE 3 AT THE HIGHLAND GROVE INTERSECTION IN ADDITION TO THE DRIVEWAY SIGNALS AT THE FIRE STATION.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	9		17	0.50	77
(YELLOW)	9		25	0.25	56
(GREEN)	9		15	0.25	34
ARROW			12	0.10	
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
VIDEO SYSTEMS			150	1.00	
LUMINAIRE		400		0.50	
ILLUM. SIGN			60	0.50	
FLASHER				0.50	
TOTAL =					317

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)

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

REVISIONS	
NAME	DATE

VILLAGE OF BUFFALO GROVE

**TRAFFIC SIGNAL CABLE PLAN**  
DEERFIELD PARKWAY &  
FIRE STATION NO. 26

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

SCALE: NOT TO SCALE