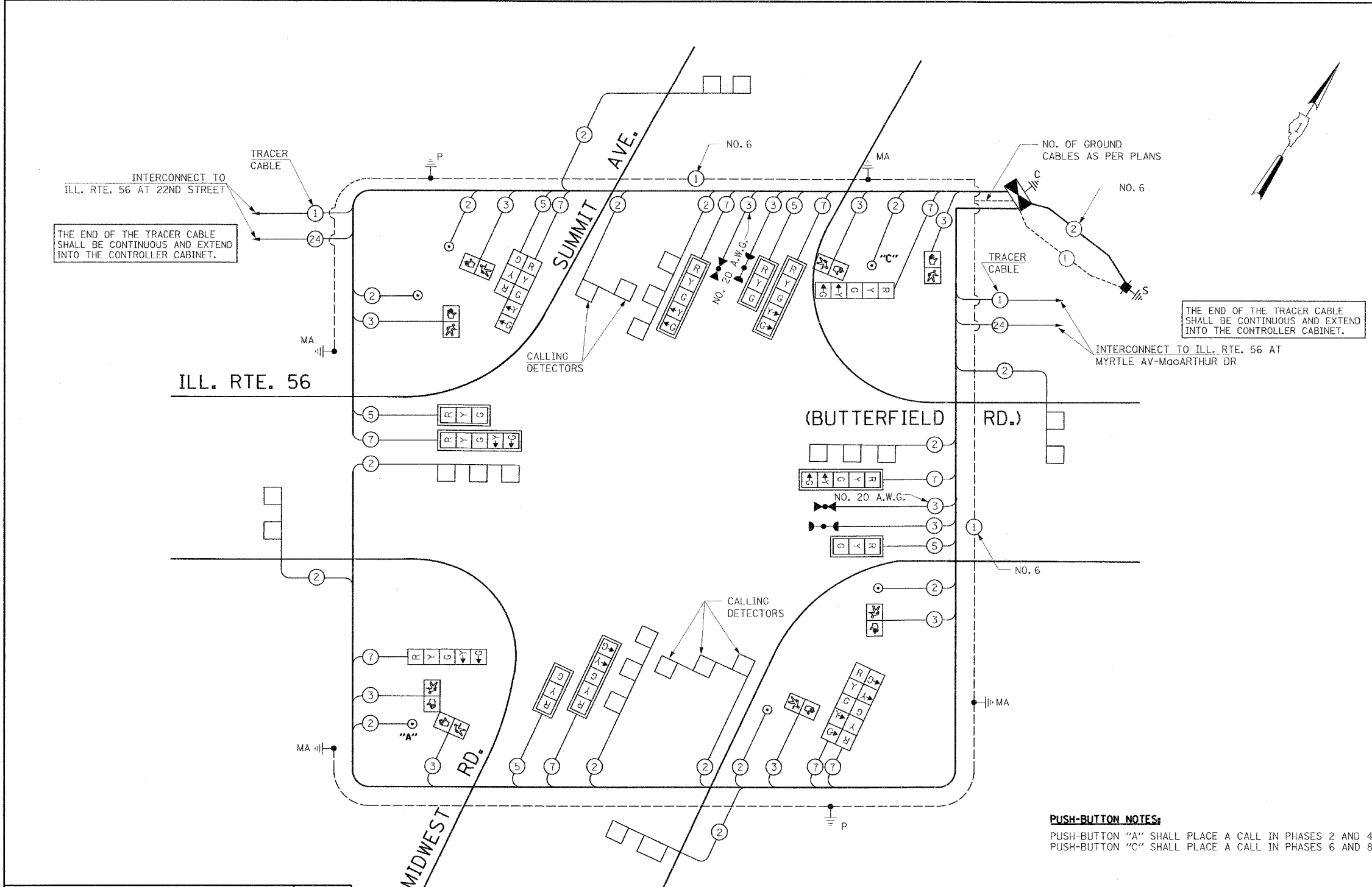


**CABLE PLAN LEGEND**

- | 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 INSTALLATION  |
|          | VEHICLE DETECTOR, INDUCTION LOOP  |
|          | MAGNETIC DETECTOR   |
|          | EMERGENCY VEHICLE LIGHT DETECTOR  |
|          | CONFIRMATION BEACON   |
|          | PUSH-BUTTON DETECTOR  |
|          | DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
|          | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)  |
|          | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F & SM12F   |
|          | 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 (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)  |
|          | GROUND ROD AT POST (P) OR MAST ARM POLE (MA)  |
|          | GROUND ROD AT ELECTRIC SERVICE INSTALLATION   |
|          | LOCAL AND MASTER CONTROLLER   |
|          | MICROWAVE VEHICLE SENSOR  |

**PUSH-BUTTON NOTES:**  
 PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.  
 PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

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



**CABLE PLAN**

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		OPERATION	
		INCAND.	LED		
SIGNAL (RED)	15	135	17	0.50	127.50
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	20	135	12	0.10	24.00
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL =
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAMBURG, ILLINOIS 60196-1096					601.50
ENERGY SUPPLY CONTACT: Robert Rogers PHONE: (630) 691-4861 COMPANY: ComEd-Glenbard					

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-MAST 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)

**GO** GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 6035 N. NORTHWEST HWYWAY  
 SUITE 306  
 CHICAGO, ILLINOIS 60631 TEL. (773) 774-5980

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE PLAN**  
 ILLINOIS ROUTE 56 (BUTTERFIELD ROAD)  
 AT SUMMIT AVENUE-MIDWEST ROAD  
 SCALE: N.T.S.  
 DATE: MAY 27, 2003  
 DRAWN BY: JEK  
 DESIGNED BY: PKG  
 CHECKED BY: PKG