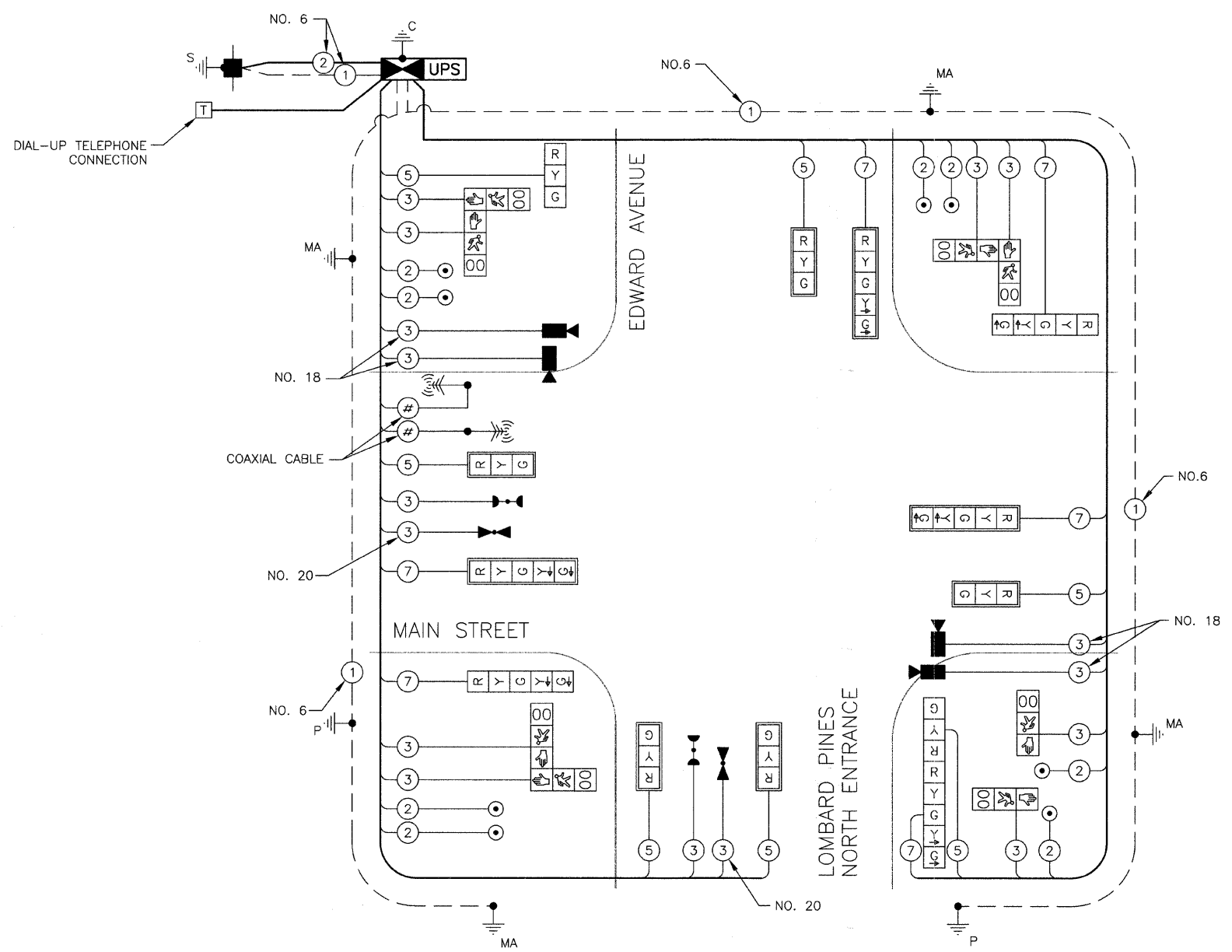


**CABLE PLAN LEGEND**

- | EXISTING | PROPOSED |  |
|----------|----------|--|
|          |          | 8" (200mm) TRAFFIC SIGNAL SECTION                                  |
|          |          | 12" (300mm) TRAFFIC SIGNAL SECTION                                 |
|          |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION                              |
|          |          | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER         |
|          |          | CONTROLLER CABINET   |
|          |          | SERVICE INSTALLATION   |
|          |          | TELEPHONE CONNECTION   |
|          |          | VEHICLE DETECTOR, INDUCTION LOOP                                   |
|          |          | MAGNETIC DETECTOR  |
|          |          | EMERGENCY VEHICLE LIGHT DETECTOR                                   |
|          |          | CONFIRMATION BEACON  |
|          |          | PUSHBUTTON DETECTOR  |
|          |          | 2 DENOTES NUMBER OF CONDUCTORS                                     |
|          |          | 1 ALL CABLE NO. 14 EXCEPT AS INDICATED.                            |
|          |          | 24 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, "NO LEFT TURN"                                   |
|          |          | ILLUMINATED SIGN, "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                        |
|          |          | PROPOSED ANTENNA   |
|          |          | COAXIAL CABLE  |
|          |          | STREET LIGHT LUMINAIRE   |
|          |          | IMAGE SENSOR   |
|          |          | UNINTERRUPTIBLE POWER SUPPLY                                       |



**CABLE PLAN**  
NOT TO SCALE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" BRAND.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	13		17	50	111
(YELLOW)	13		25	25	81
(GREEN)	13		15	25	49
ARROW	12		12	10	15
PED. SIGNAL	8		25	100	200
CONTROLLER	1		100	100	100
DET. CAMERA	4		25	100	100
TOTAL =					656

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)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CABLE PLAN**

**MAIN STREET & EDWARD AVENUE**

DATE: 11/26/07  
DESIGNED BY: BRD  
CHECKED BY: JJE

SCALE: NOT TO SCALE