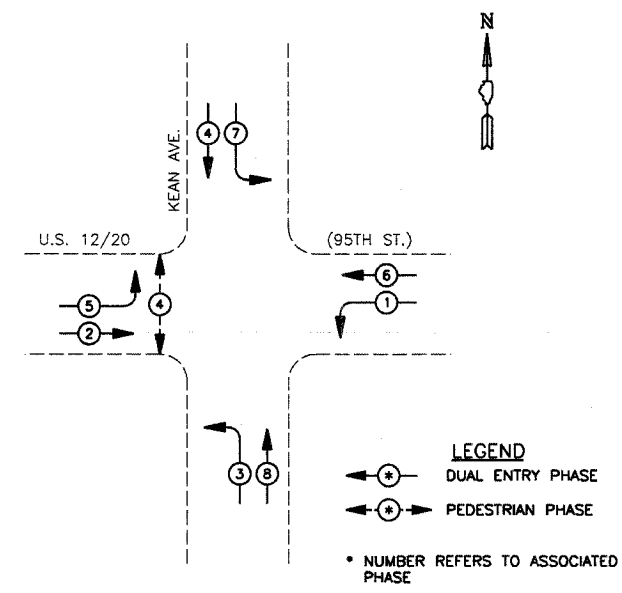


CONTRACT # 62201

**SCHEDULE OF QUANTITIES**

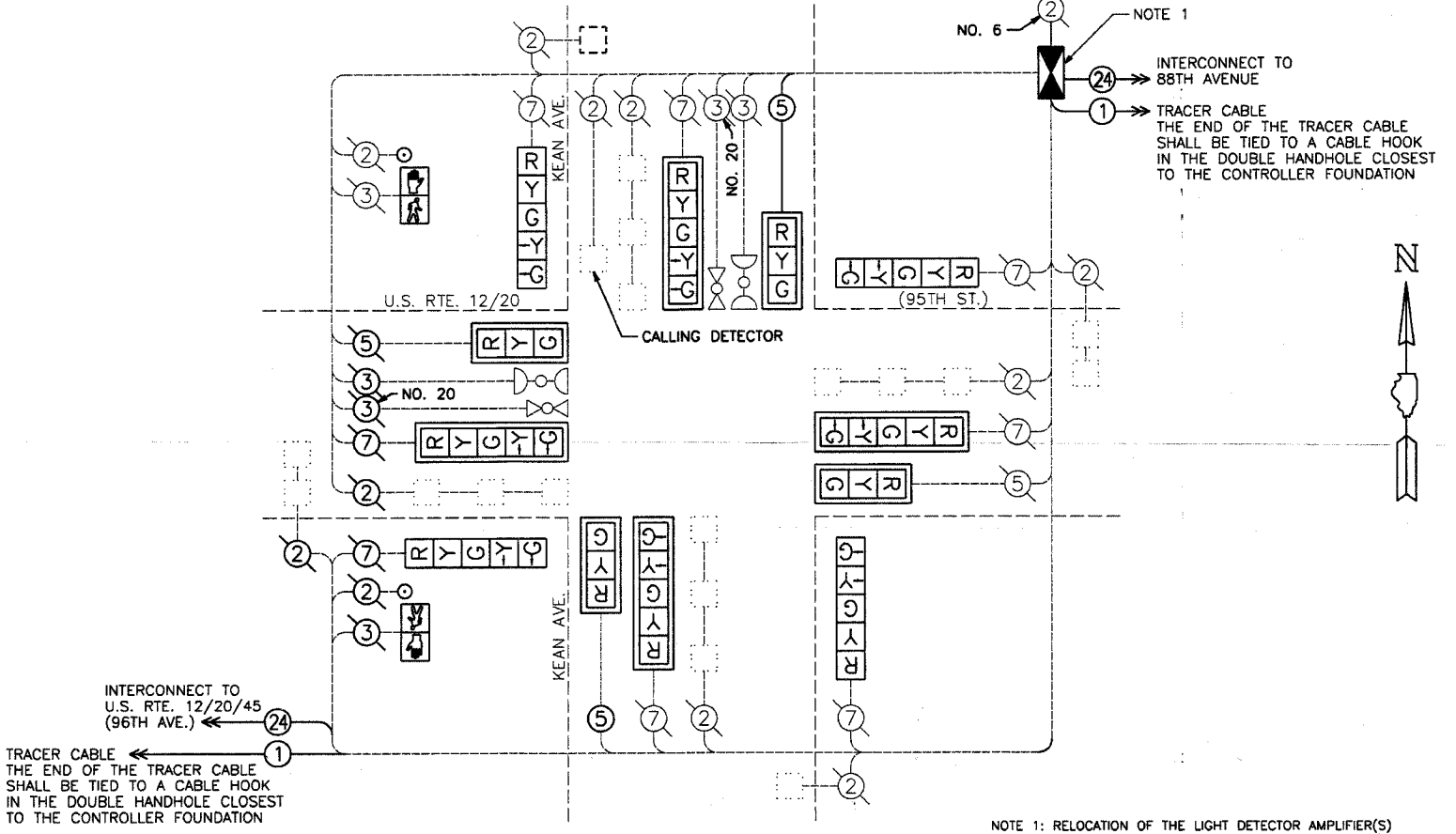
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
344.0	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	TRANSCENER - FIBER OPTIC
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	SIGNAL HEAD, LED, 1-FACE 3-SECTION, MAST ARM MOUNTED
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE 5-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE 5-SECTION, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL PUSHBUTTON

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM (NOT TO SCALE)**

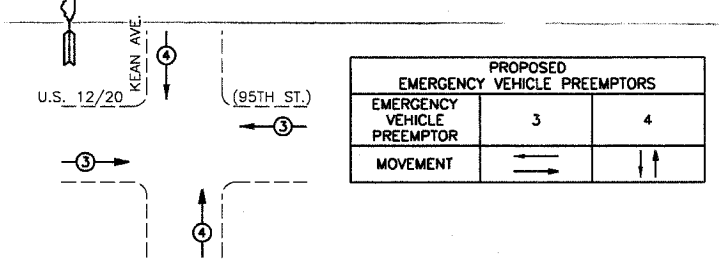
**CABLE PLAN (NOT TO SCALE)**



NOTE 1: RELOCATION OF THE LIGHT DETECTOR AMPLIFIER(S) FROM THE OLD CONTROLLER CABINET TO THE NEW CABINET IS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED TO THE COST OF THE NEW CONTROLLER AND CABINET.

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

**EMERGENCY VEHICLE PREEMPTION SEQUENCE (NOT TO SCALE)**



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		8" (200 mm) TRAFFIC SIGNAL SECTION
		12" (300 mm) TRAFFIC SIGNAL SECTION
		12" (300 mm) PEDESTRIAN SIGNAL SECTION
		12" (300 mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		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 ELECTRIC SERVICE INSTALLATION

I.D.D.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION		
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	51
(GREEN)	12	135	15	0.25	51
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84		0.05	
FLASHER LED	-			0.50	
TOTAL =					273.2

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)	PE.D. 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  
 U.S. RTE. 12/20 (95TH ST.) & KEAN AVE.  
 CABLE PLAN  
 PHASE DESIGNATION DIAGRAM  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 SCHEDULE OF QUANTITIES

SCALE: VERT. NONE  
 HORZ. NONE  
 DATE 12-11-05

DRAWN BY PRT  
 DESIGNED BY RKF  
 CHECKED BY JVV

MORRIS ENGINEERING, INC.