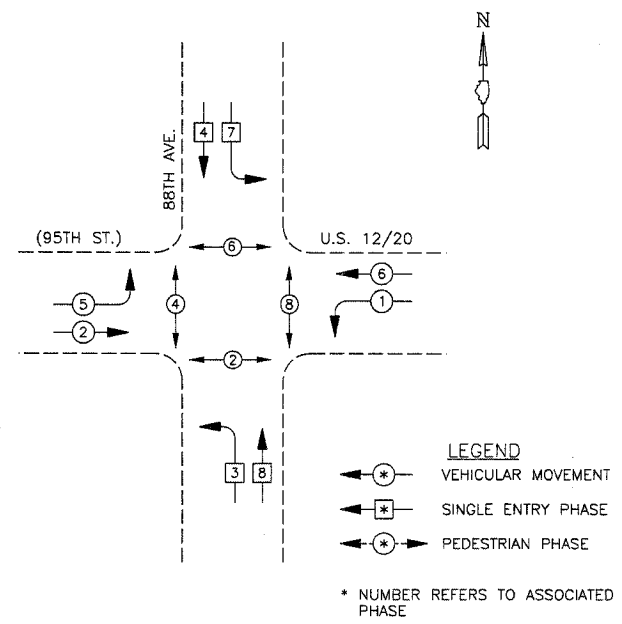


CABLE PLAN
(NOT TO SCALE)

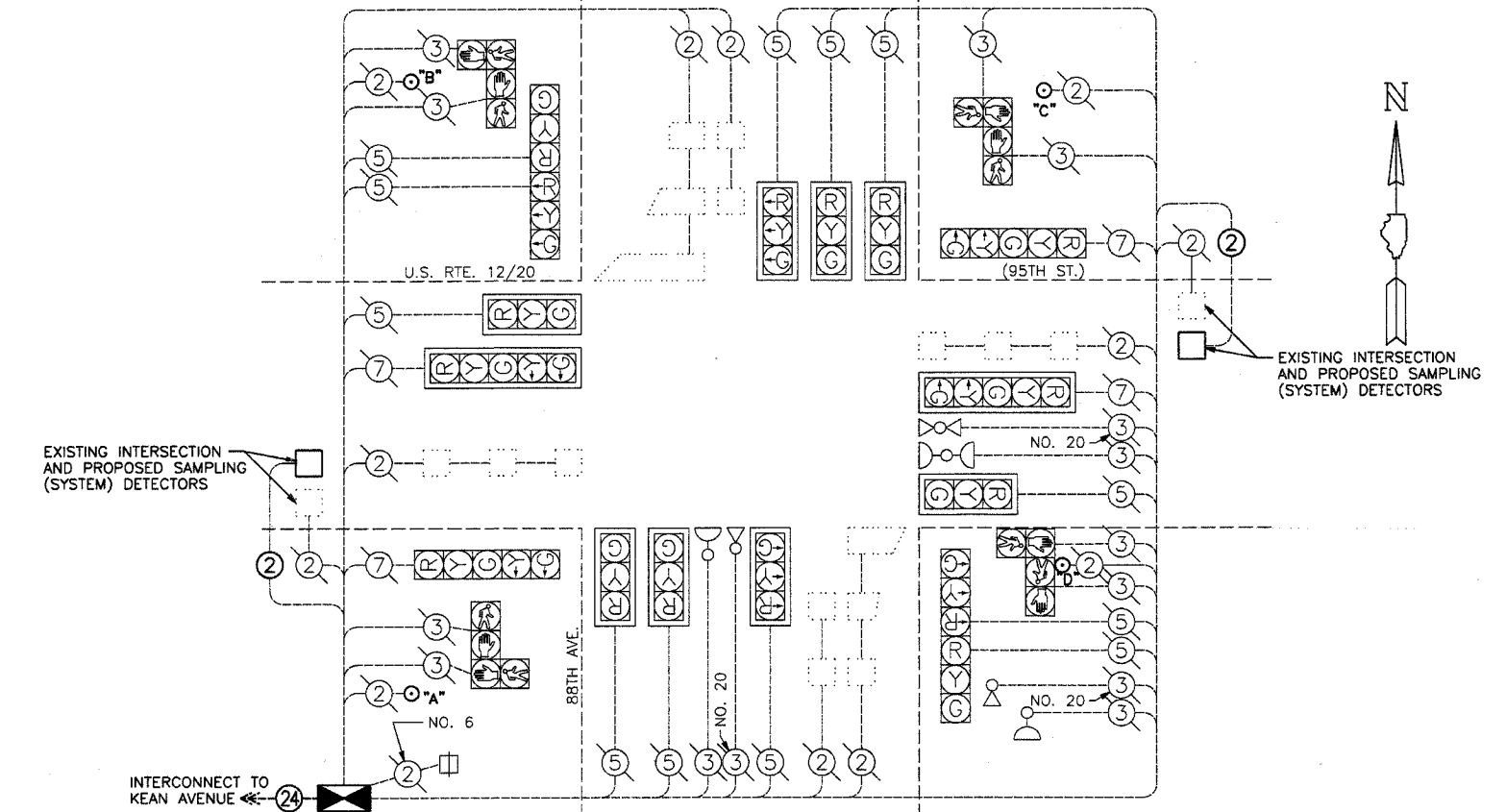
SCHEDULE OF QUANTITIES

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
729.0	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM
(NOT TO SCALE)



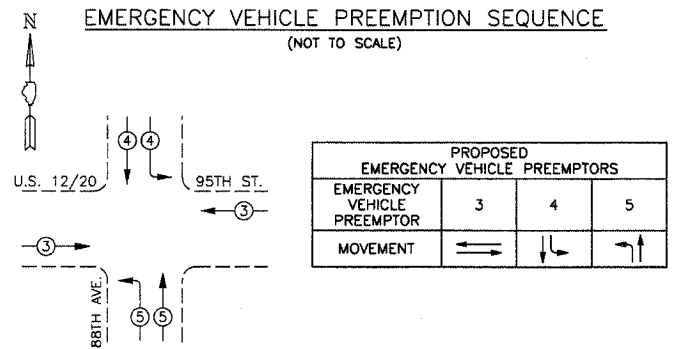
NOTES FOR PEDESTRIAN PUSHBUTTONS

- PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
- PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
- PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
- PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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)



I.D.D.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	%OPERATION	
SIGNAL (RED)	16	135	17	0.50	1080
(YELLOW)	16	135	25	0.25	540
(GREEN)	16	135	15	0.25	540
ARROW	8	135	12	0.10	108
PED. SIGNAL	8	90	25	1.00	720
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84	-	0.05	-
FLASHER LED	-	-	-	0.50	-
TOTAL =					3088

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	2 (0.6)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	(6m±L-0.6m)±
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)	13 (4.0)	
30" (750mm)	15 (4.6)	FIBER OPTIC	19 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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
⊙	⊙	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

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊙	⊙	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"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
U.S. RTE. 12/20 (95TH ST.) & 88TH AVENUE
CABLE PLAN
PHASE DESIGNATION DIAGRAM
EMERGENCY VEHICLE PREEMPTION SEQUENCE
SCHEDULE OF QUANTITIES

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

DRAWN BY PRT
DESIGNED BY RKF
CHECKED BY JVV

MORRIS ENGINEERING, INC.