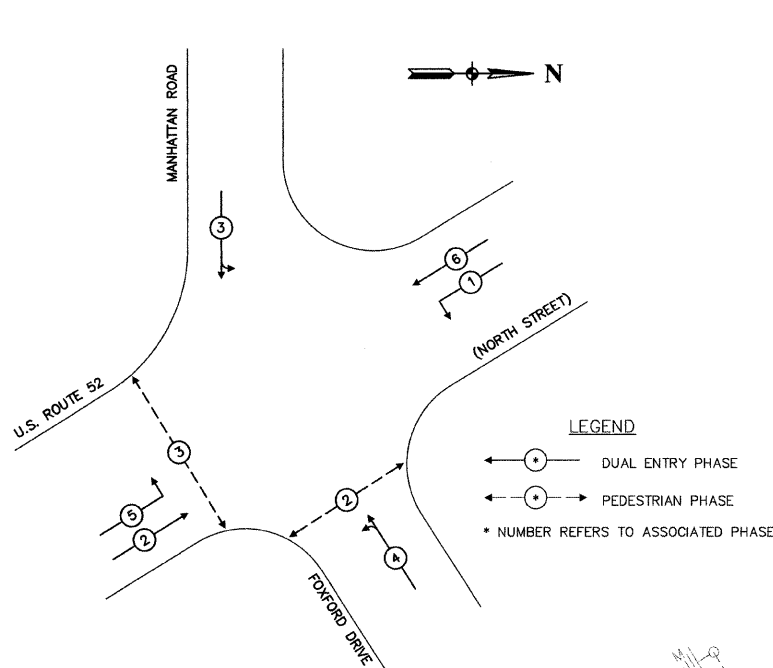
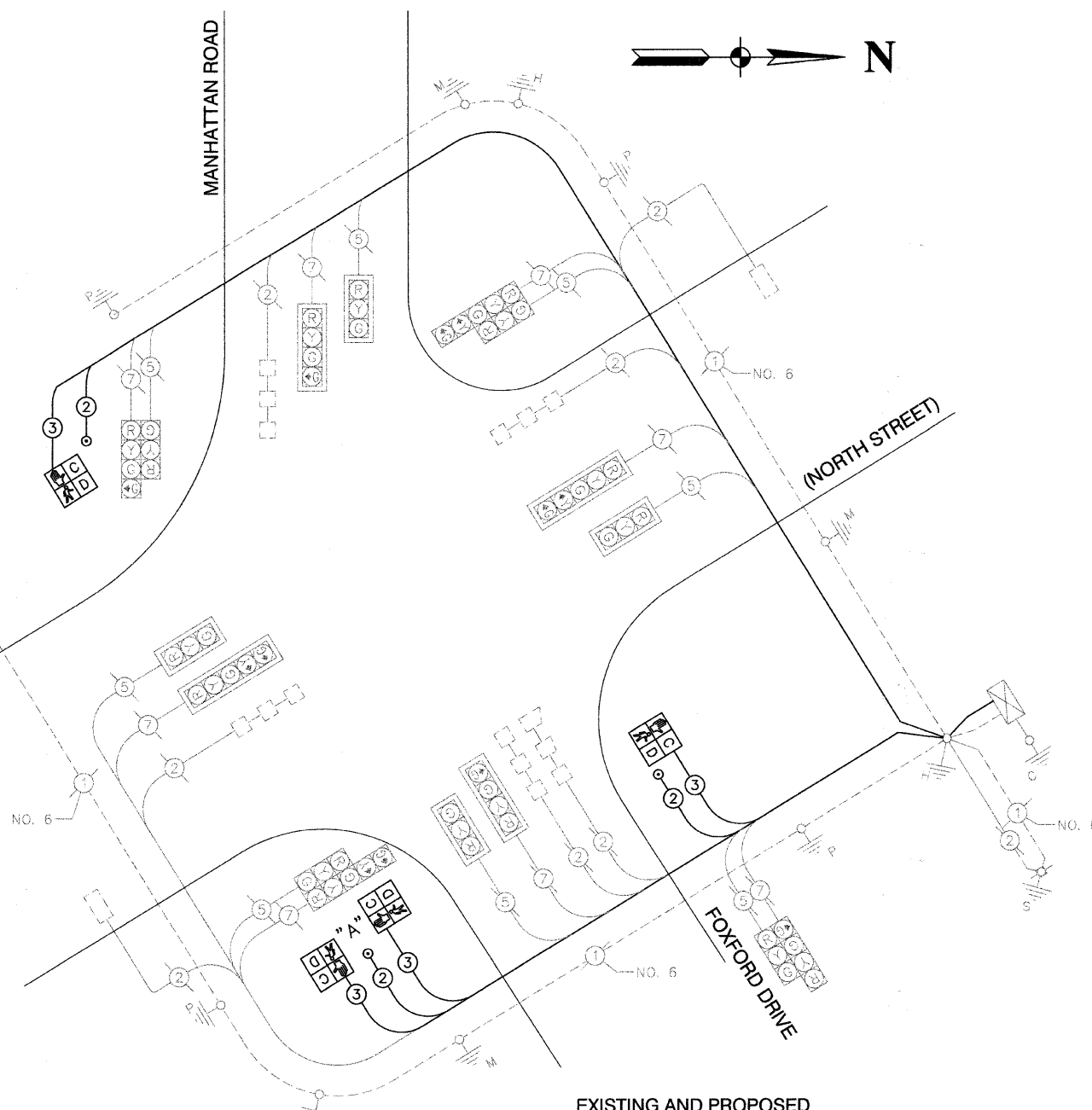
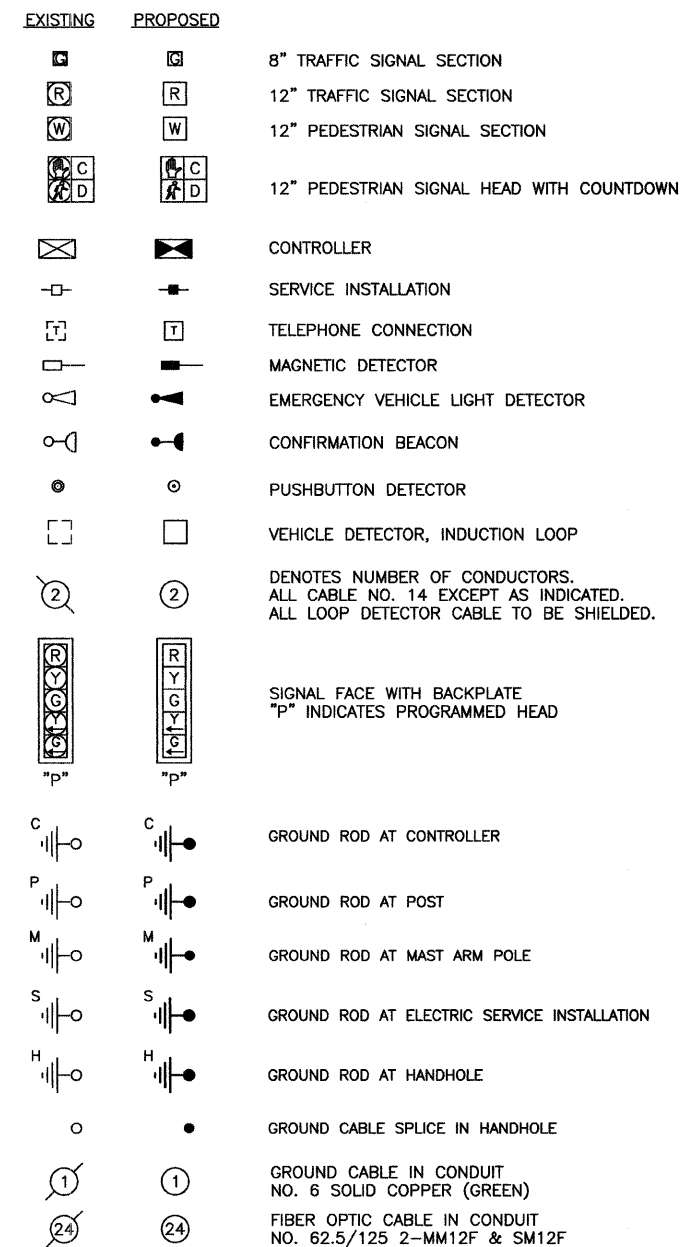


CONTROLLER SEQUENCE



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

CABLE PLAN LEGEND



EXISTING AND PROPOSED CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUAN
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	8
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	24
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	448
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	640
PEDESTRIAN PUSH-BUTTON POST, TYPE 1	EACH	2
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
MODIFY EXISTING CONTROLLER	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8

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	12	135	12	0.10	162
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					2522

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICLE	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	15 (4.0)	MAST ARM (L) POLE	20'-1-2' (6m+L-0.6m)
E - M. ARM POLE	2 (0.6)	SIGNAL POST	2 (0.6)	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)

NOTES:

1. ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE ECONOLITE TO MATCH THE EXISTING SYSTEM.
2. ALL PROPOSED INDICATIONS SHALL BE LED.
3. PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 & 3.

FILE NAME = 07434-SIGNL-CRLE-01	USER NAME =	DESIGNED - V.C.	REVISED - 11-11-08 IDOT REV
		CHECKED - V.C.	REVISED - 12-09-08 IDOT REV
	PLOT SCALE = N/A	DRAWN - JRA	REVISED - 01-20-09 IDOT REV
	PLOT DATE = 07-30-09	CHECKED - V.C./HLG	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHATTAN ROAD SIDEWALK IMPROVEMENTS TRAFFIC SIGNALS CABLE PLAN		F.A.P. RTE. 0532	SECTION 09-00009-00-SW	COUNTY WILL	TOTAL SHEETS 13	SHEET NO. 7
SCALE: N/A		SHEET NO. 7 OF 13 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT ARA-9003 (360)

CONTRACT NO. 63309