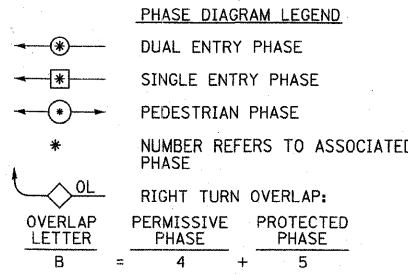
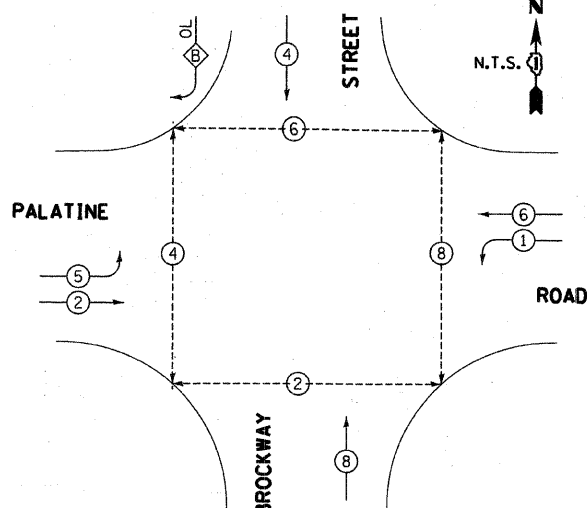
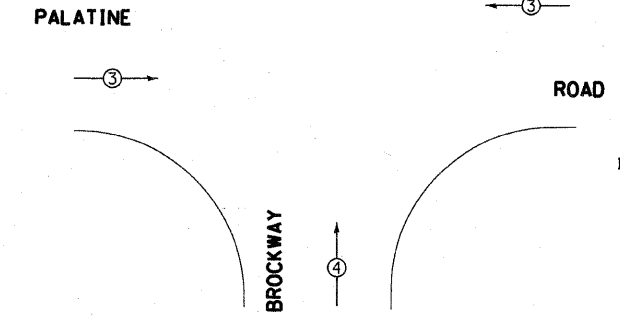
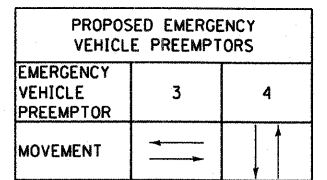


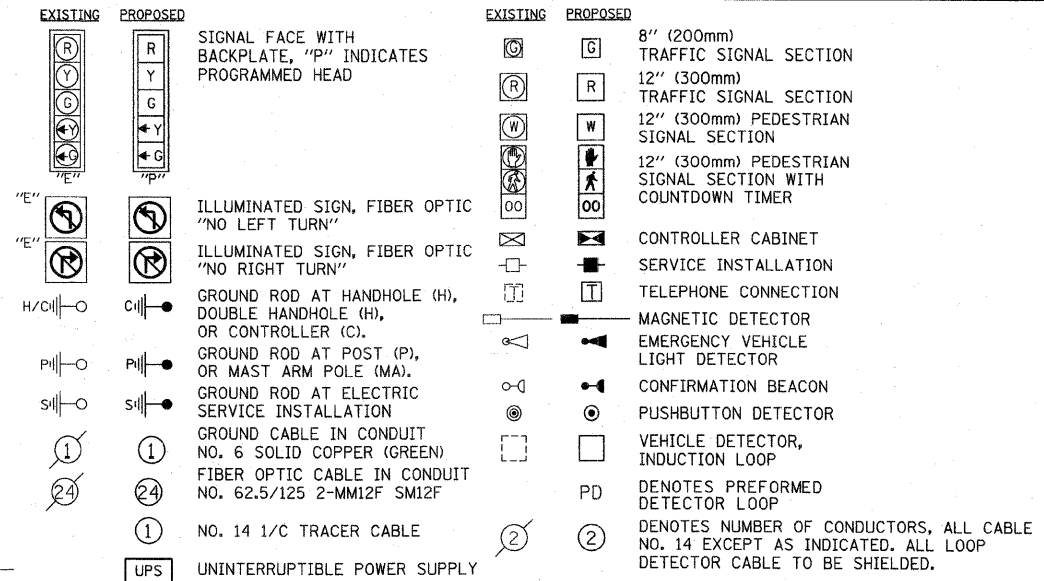
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

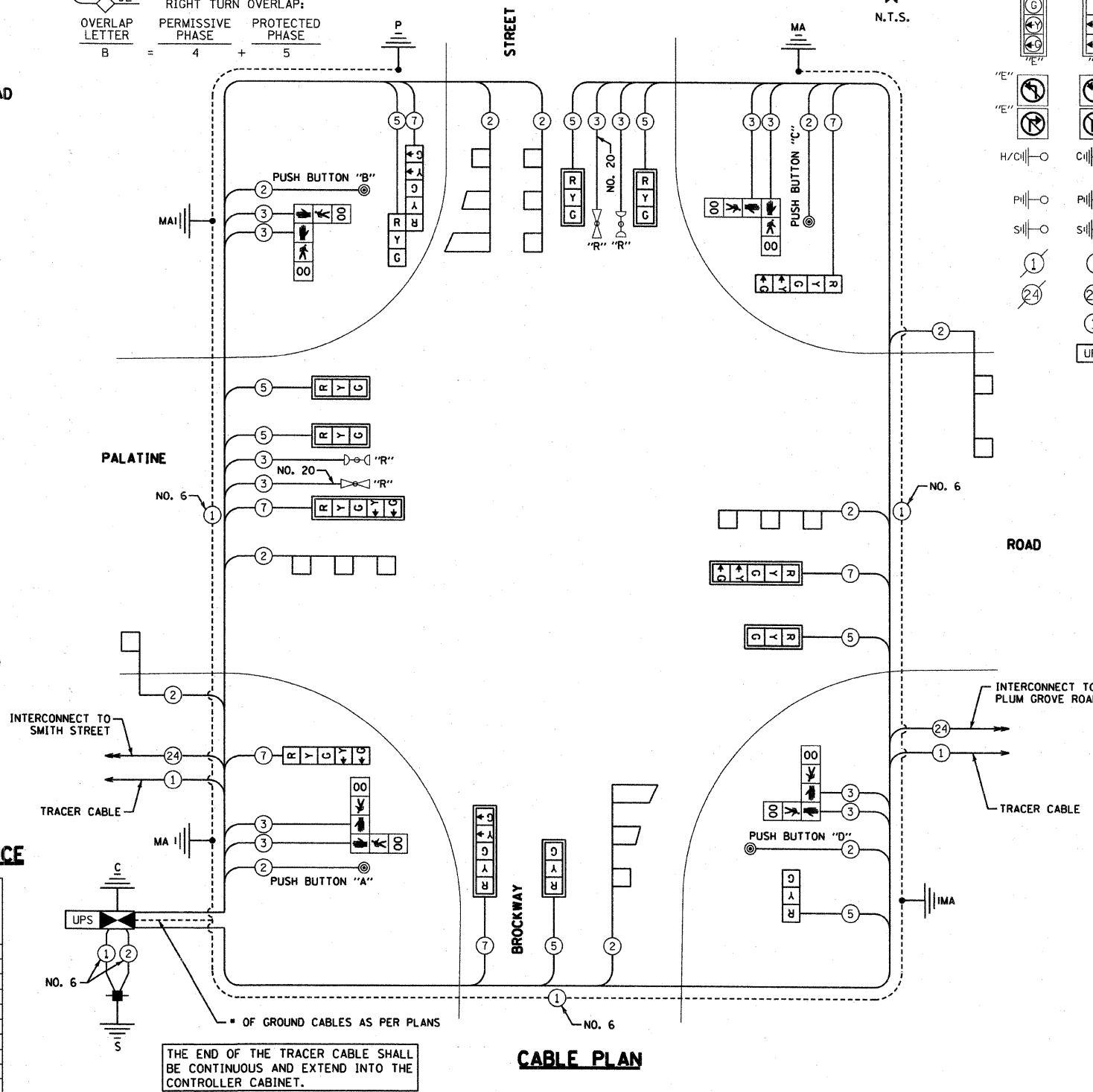


CABLE PLAN LEGEND



SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1	SO FT	34.5
CONDUIT IN TRENCH, 2" DIA., GALVANIZED	STEEL	FOOT 399
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED	STEEL	FOOT 37
CONDUIT IN TRENCH, 3" DIA., GALVANIZED	STEEL	FOOT 47
CONDUIT IN TRENCH, 4" DIA., GALVANIZED	STEEL	FOOT 10
CONDUIT PUSHED, 2" DIA., GALVANIZED	STEEL	FOOT 126
CONDUIT PUSHED, 4" DIA., GALVANIZED	STEEL	FOOT 294
HANDHOLE		EACH 4
HEAVY-DUTY HANDHOLE		EACH 3
DOUBLE HANDHOLE		EACH 2
TRENCH AND BACKFILL FOR ELECTRICAL WORK		FOOT 495
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL		EACH 1
TRANSCEIVER - FIBER OPTIC		EACH 1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C		FOOT 538
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C		FOOT 1,659
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C		FOOT 1,554
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C		FOOT 945
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR		FOOT 1,348
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C		FOOT 22
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.		EACH 1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.		EACH 1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.		EACH 1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.		EACH 1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.		EACH 1
CONCRETE FOUNDATION, TYPE A		FOOT 4
CONCRETE FOUNDATION, TYPE C		FOOT 4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER		FOOT 48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED		EACH 6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED		EACH 1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED		EACH 2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED		EACH 3
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED		EACH 1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER		EACH 4
TRAFFIC SIGNAL BACKPLATE		EACH 9
INDUCTIVE LOOP DETECTOR		FOOT 7
DETECTOR LOOP, TYPE I		FOOT 1,481
PEDESTRIAN PUSH-BUTTON		EACH 4
TEMPORARY TRAFFIC SIGNAL INSTALLATION		EACH 1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT		EACH 2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT		EACH 1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		EACH 1
REMOVE EXISTING HANDHOLE		EACH 15
REMOVE EXISTING CONCRETE FOUNDATION		EACH 11
SERVICE INSTALLATION - GROUND MOUNTED		EACH 1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C		FOOT 938
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED		FOOT 511
UNINTERRUPTIBLE POWER SUPPLY		EACH 1
TEMPORARY TRAFFIC SIGNAL TIMING		EACH 1



THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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

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)
TYPE C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20H-2= (6H-0.6)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
		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)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	0.50	119
(YELLOW)	14	135	0.25	87.5
(GREEN)	14	135	0.25	52.5
ARROW	12	135	0.10	14.4
PED. SIGNAL	8	90	1.00	200
CONTROLLER	1	100	1.00	100
ILLUM. SIGN		252	0.05	
FLASHER		25	0.50	
ENERGY COST TO:			TOTAL =	573.4

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: ELLI SARALLO
 PHONE: (630) 424-5124
 COMPANY: COMMONWEALTH EDISON

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF PALATINE
 PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
 SMITH STREET TO US 14 (NORTHWEST HIGHWAY)
 PALATINE ROAD AND BROCKWAY STREET
 CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 EMERGENCY VEHICLE PREEMPTION SEQUENCE
 AND SCHEDULE OF QUANTITIES
 SCALE: NTS DRAWN BY DMB
 DATE OCTOBER 19, 2009 CHECKED BY RY