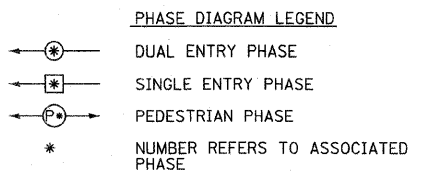
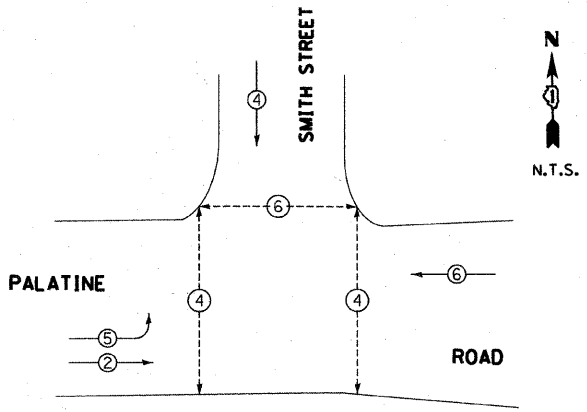


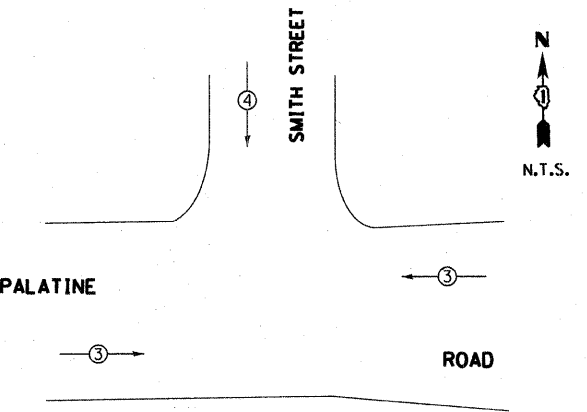
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↓



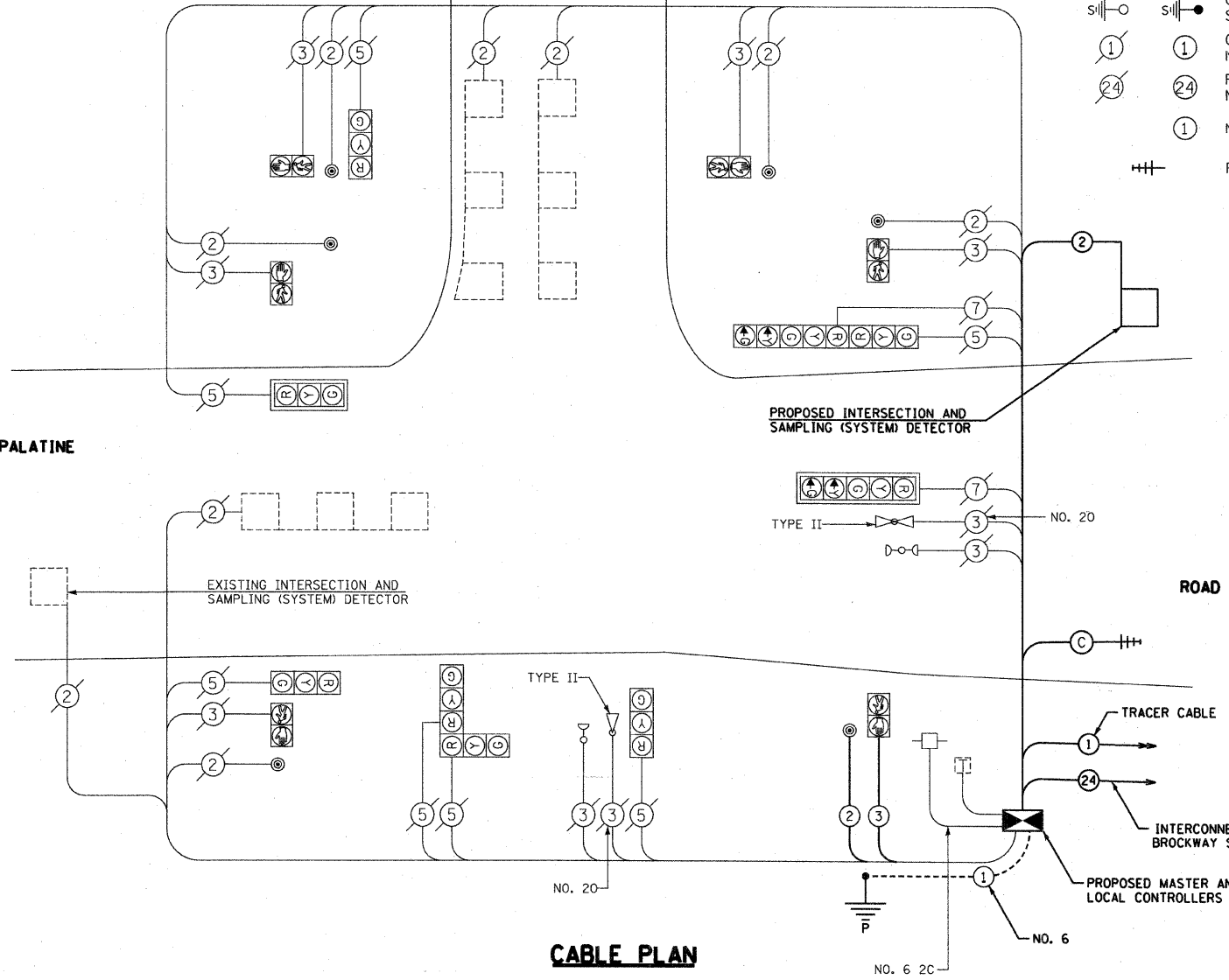
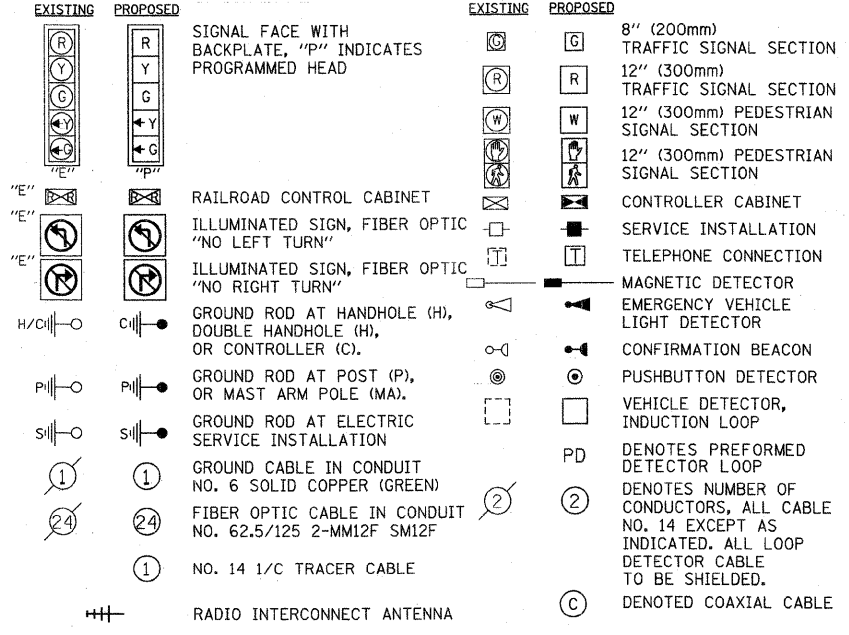
EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9	135	17	0.50	540
(YELLOW)	9	135	25	0.25	270
(GREEN)	9	135	15	0.25	270
ARROW	4	135	12	0.10	54
PED. SIGNAL	6	90	25	1.00	540
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN				0.05	
FLASHER		25		0.50	
ENERGY COST TO:				TOTAL =	1774

FOUNDATION (DEPTH)	FT (m)	CABLE SLACK	FT (m)	VERTICAL	FT.
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
TYPE D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L= (6m+L)=
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)

CABLE PLAN LEGEND



- CONSTRUCTION NOTES:**
- TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. THE RADIO ANTENNA SHOULD BE INSTALLED ON THE SOUTHEAST MAST ARM AT THE INTERSECTION OF SMITH STREET AND PALATINE ROAD. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION".
 - THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	226
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	19
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	245
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	58
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	49
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	308
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	96
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	421
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	58
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

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

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

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

DATE = 09/14/09
 SCALE = AS SHOWN
 USER NAME = MRS. J. B. ...