CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
②	②	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
①	①	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
"E"	"E"	RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN "NO LEFT TURN"
"E"		ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

LEGEND

- → DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- N NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
RELOCATE SIGN PANEL, TYPE 1	SQ FT	45
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	308
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	83
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	117
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	306
HANDHOLE	EACH	3
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	493
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	842
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2004
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	666
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2618
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1863
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	62
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	22
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1102
RELOCATE LIGHT DETECTOR	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7743
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6, 1C	FOOT	1088
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED & SHIELDED	FOOT	301
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1

CABLE PLAN

CONTROLLER SEQUENCE

PROPOSED PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE

EXISTING PHASE DESIGNATION DIAGRAM

PERMISSIVE PHASE			OVERLAP LETTER		PROTECTED PHASE
B	=		6	+	7
D	=		2	+	3

FIBER OPTIC CABLE NO. 62.5/125 MM12F SM12F
INTERCONNECT TO MAIN STREET
NO. 10 1/C

FIBER OPTIC CABLE NO. 62.5/125 MM12F SM12F
INTERCONNECT TO NORTH STREET
NO. 10 1/C (TRACER CABLE)
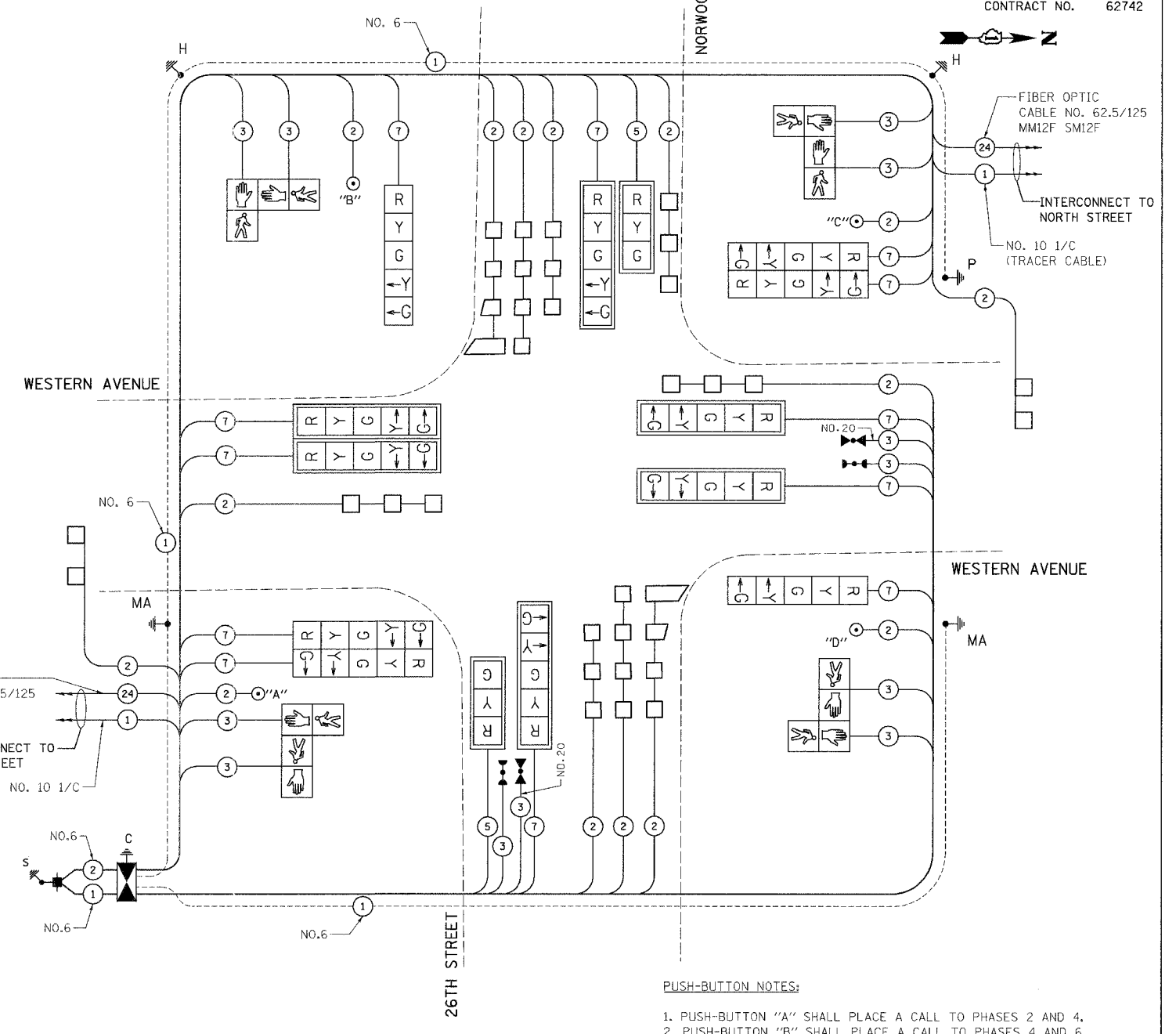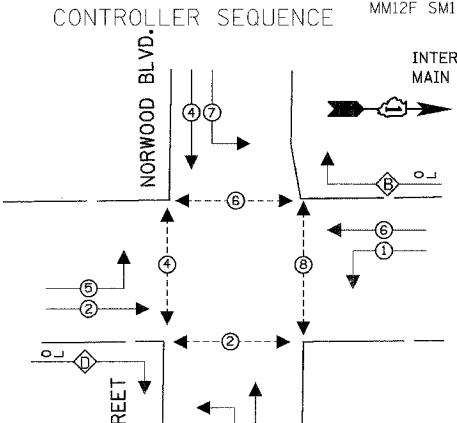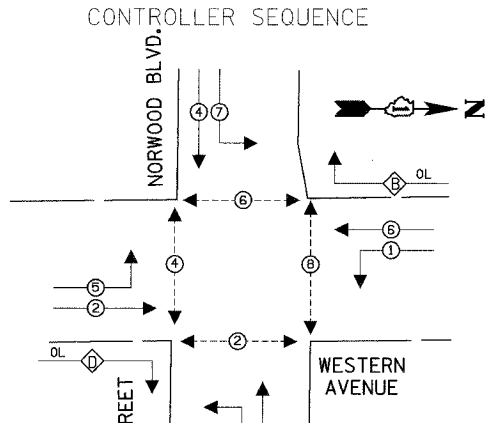
PUSH-BUTTON NOTES:

1. PUSH-BUTTON "A" SHALL PLACE A CALL TO PHASES 2 AND 4.
2. PUSH-BUTTON "B" SHALL PLACE A CALL TO PHASES 4 AND 6.
3. PUSH-BUTTON "C" SHALL PLACE A CALL TO PHASES 6 AND 8.
4. PUSH-BUTTON "D" SHALL PLACE A CALL TO PHASES 2 AND 8.

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

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	17.5
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
				TOTAL =	552.8

ENERGY COSTS TO:
VILLAGE OF PARK FOREST
330 VICTORY DRIVE
PARK FOREST, ILLINOIS 60466
ENERGY SUPPLY CONTACT: Jim Werner
PHONE: (708) 235-2694
COMPANY: Commonwealth Edison

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.0 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20.0 (6.0)
E - M. ARM POLE		SIGNAL POST	6 (2.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	0 (0.0)	PED. PUSH-BUTTON	6 (2.0)
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	13 (4.0)

PROPOSED EMERGENCY VEHICLE PREEMPTOR

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑↓

EMERGENCY VEHICLE PREEMPTION SEQUENCE

PLOT DATE = 5/18/2007
FILE NAME = \\msconst\3152085\Vdgn\vehs\15_C_Nor28b.dgn
PLOT SCALE = 1=28'
USER NAME = JLA