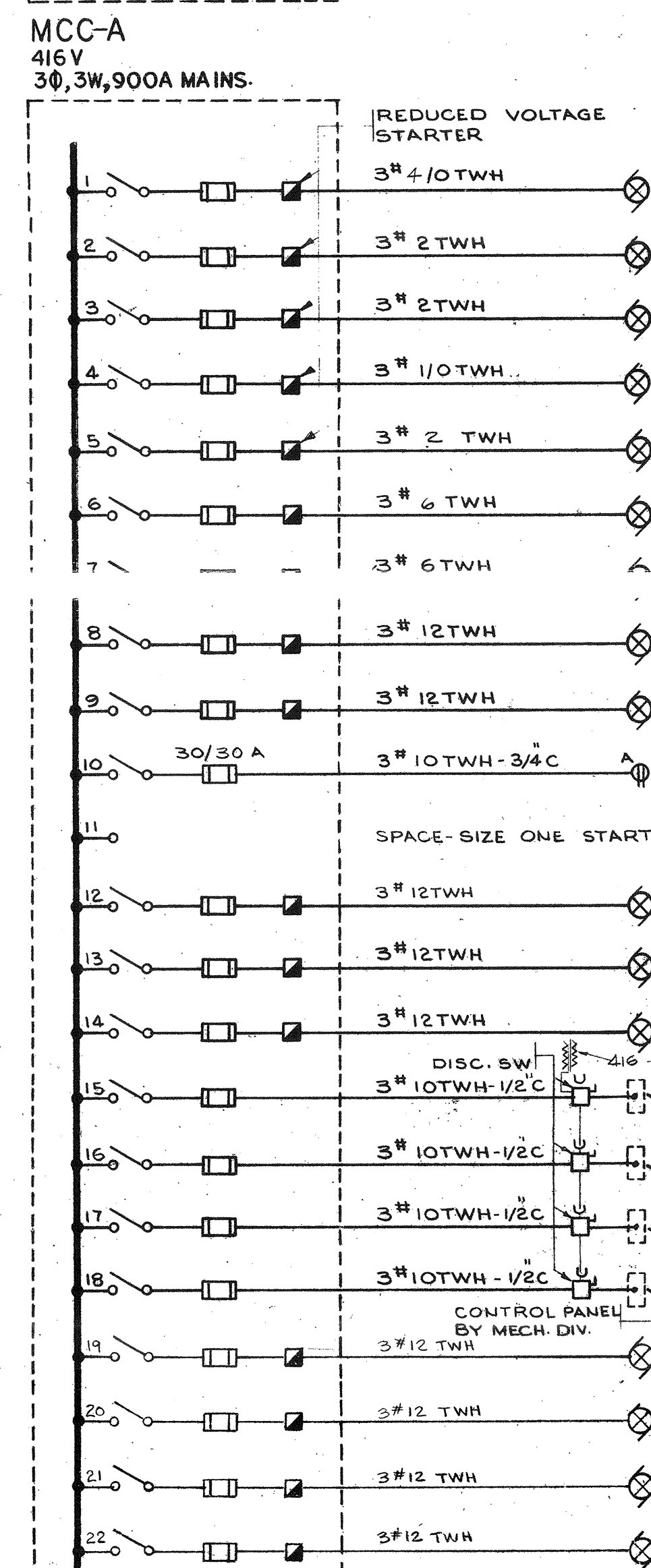
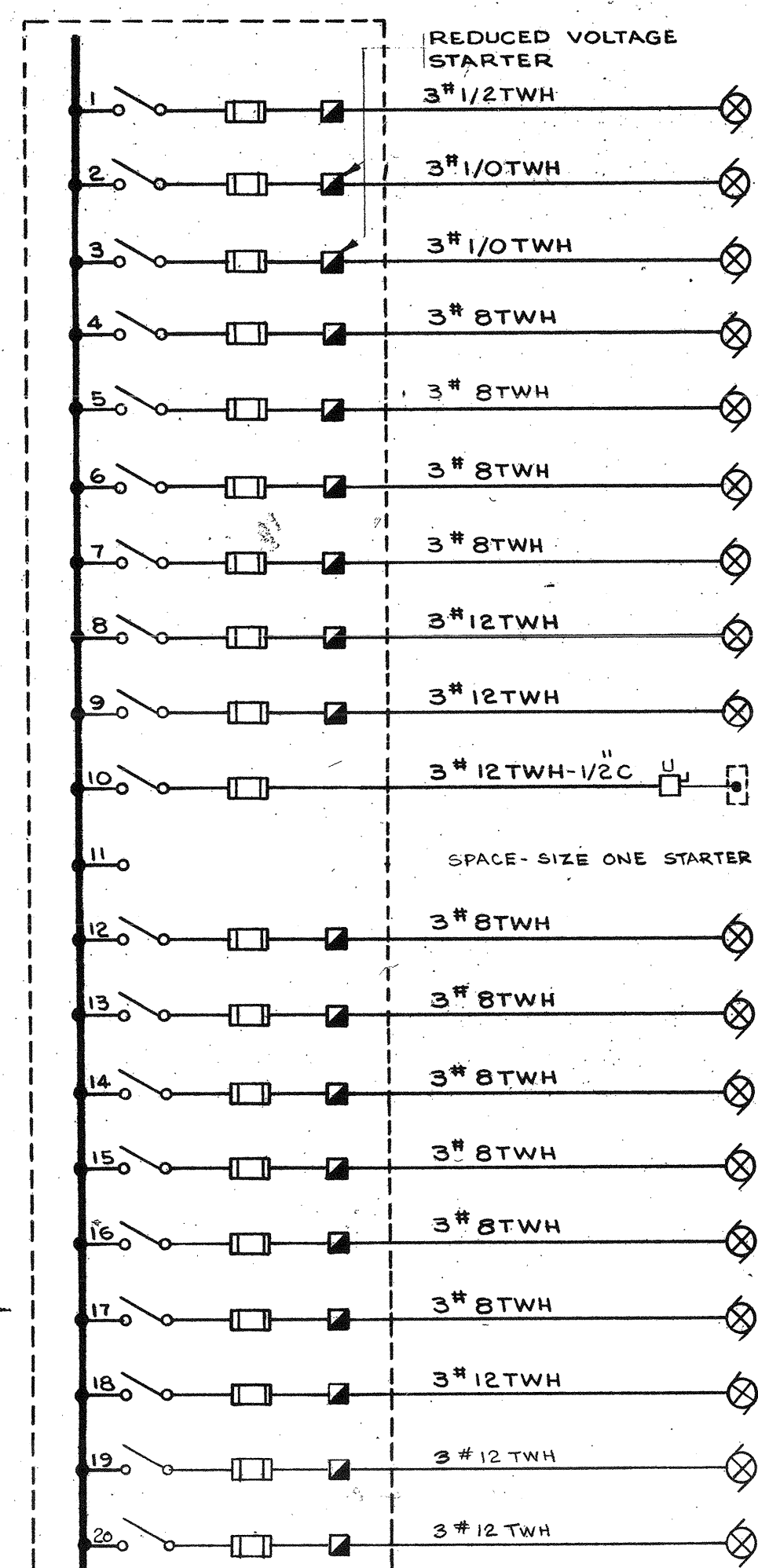
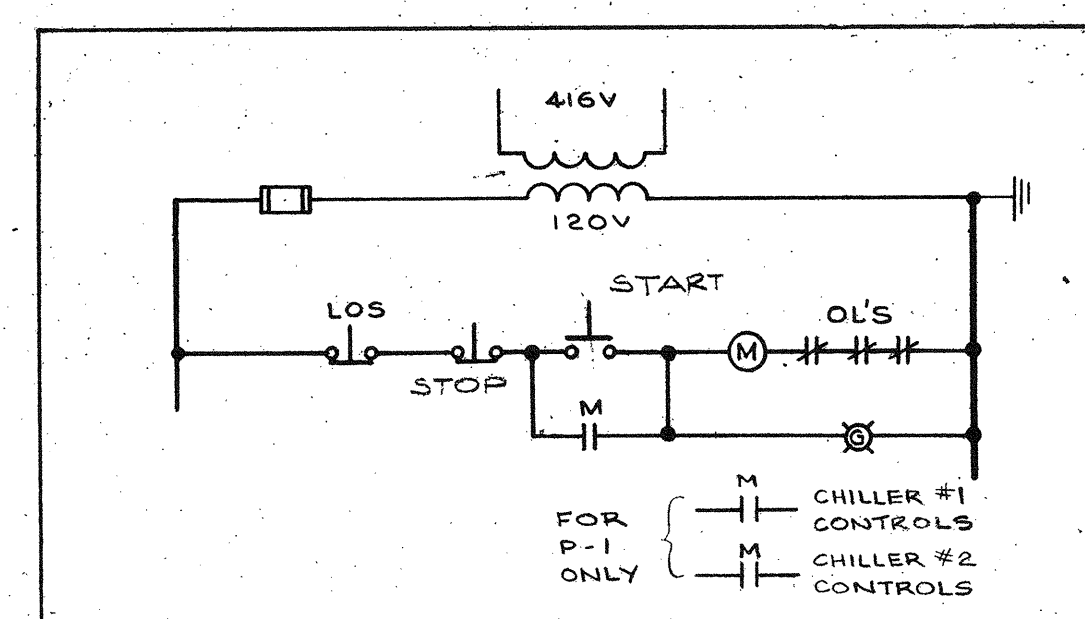


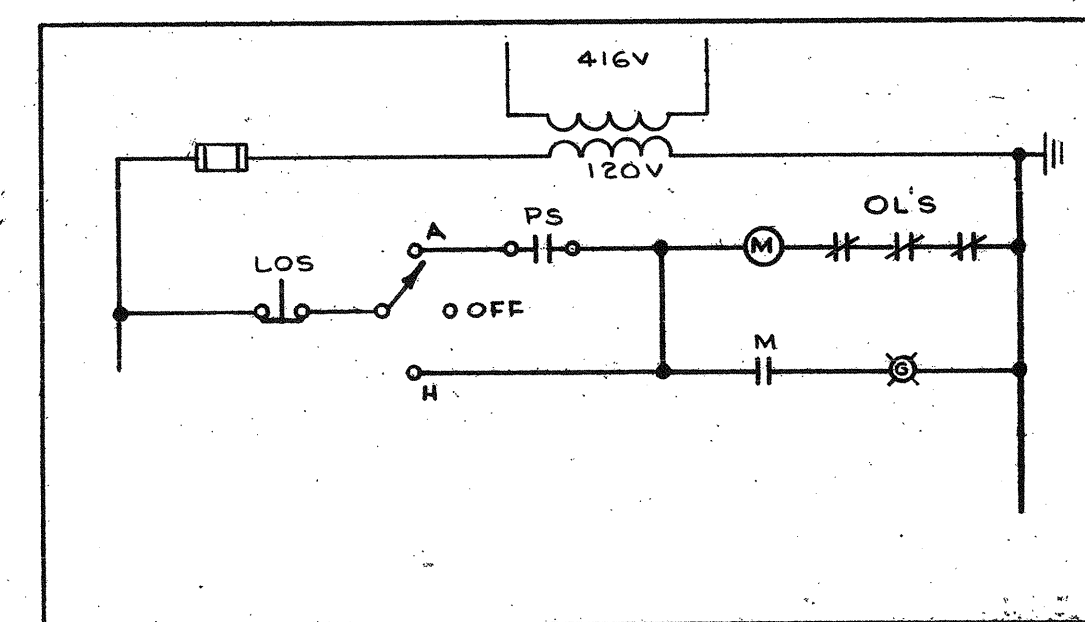


HP	ITEM	DESCRIPTION	SCHEM. NO.
50	P-1	CHILLER WATER PUMP.	1
75	P-2	CONDENSER WATER PUMP.	2
75	P-3	CONDENSER WATER PUMP (STAND-BY).	2
25	P-4	SECONDARY WATER PUMP NO. 1.	2.2
25	P-5	SECONDARY WATER PUMP NO. 2.	2.2
20	P-6	HEATING H.W. PUMP #1.	1
20	P-7	HEATING H.W. PUMP #2.	1
5	P-8	COMPUTER ROOM CONDENSER WATER PUMP.	1
5	P-9	COMPUTER ROOM CONDENSER WATER PUMP (STAND-BY).	1
5	P-10	DRINKING WATER UNIT.	1
20	FIO-1	COOLING TOWER FAN.	3
20	FIO-2	COOLING TOWER FAN.	3
20	FIO-3	COOLING TOWER FAN.	3
20	FIO-4	COOLING TOWER FAN.	3
20	FIO-5	COOLING TOWER FAN.	3
20	FIO-6	COOLING TOWER FAN.	3
7 1/2	F-11	COOLING TOWER FOR COMPUTER ROOM.	3
1	F-12	MECH. ROOM VENTILATION.	5
1	F-15	MECH. ROOM VENTILATION.	5

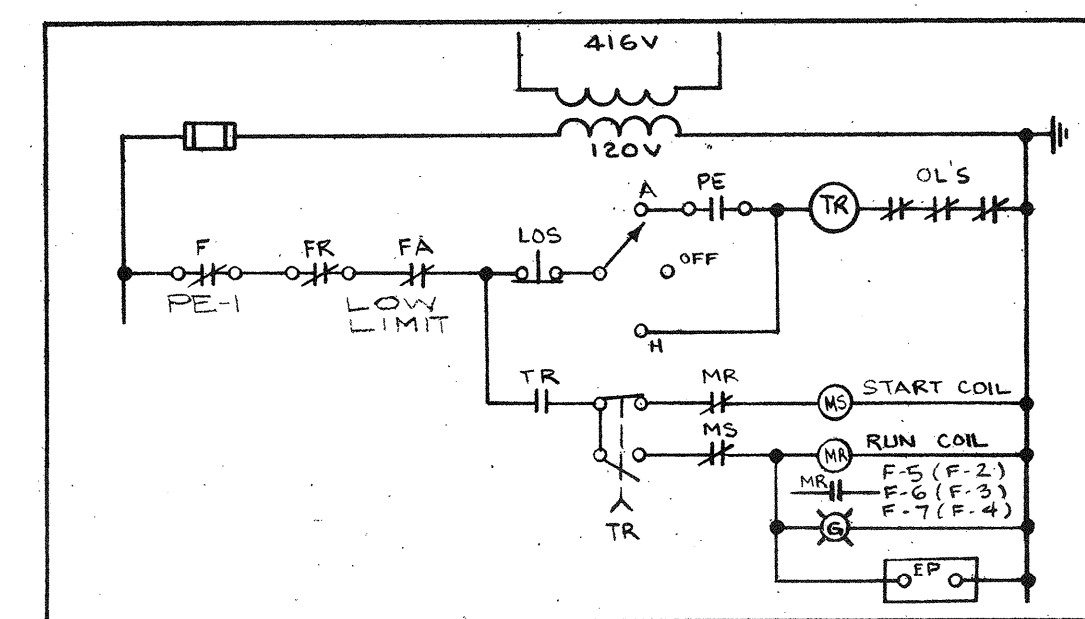
HP	ITEM	DESCRIPTION	SCHEM. NO.
125	F-1	A/C-1 PRIMARY AIR UNIT.	11
60	F-2	A/C-2 INTERIOR SOUTH UNIT.	11
60	F-3	A/C-3 INTERIOR NORTH UNIT.	11
75	F-4	A/C-4 1 ST AND 2 ND FLOOR.	11
60	F-5	RETURN AIR FAN FOR A/C-1 AND A/C-2.	14
30	F-6	RETURN AIR FAN FOR A/C-3.	13
5	F-8	KITCHEN AND CAFETERIA EXHAUST FAN.	8
5	F-9	WASHROOM EXHAUST FAN.	7
		POWER OUTLETS FOR WINDOW WASHING EQUIPMENT.	
1/2	F-18	ELEVATOR MACHINE ROOM VENTILATION.	21
10		AIR COMPRESSOR.	6
10		AIR COMPRESSOR (STAND-BY).	6
		BOILER #1.	
		BOILER #2.	
		BOILER #3.	
		BOILER #4.	
3/4	P16	MECH. RM. VENTILATION.	5
2	P11	DOM. H.W. STORAGE TANK #2.	1
3	P25	HUMIDIFICATION FOR AC2.	3
3	P26	HUMIDIFICATION FOR AC3.	3



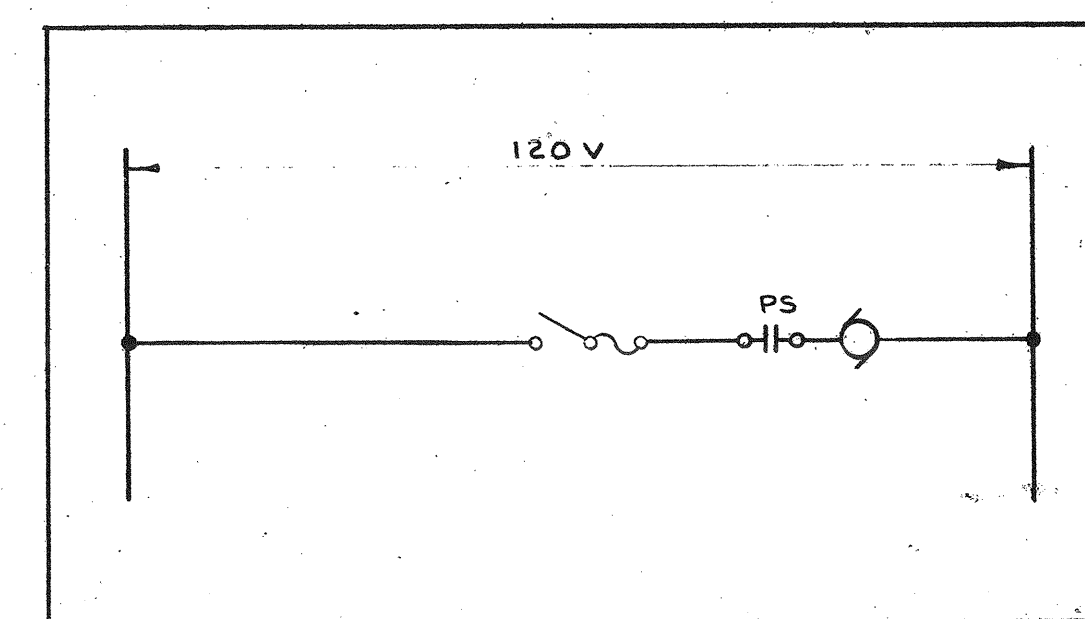
2 SCHEMATIC #1



7 SCHEMATIC #6



12 SCHEMATIC #11



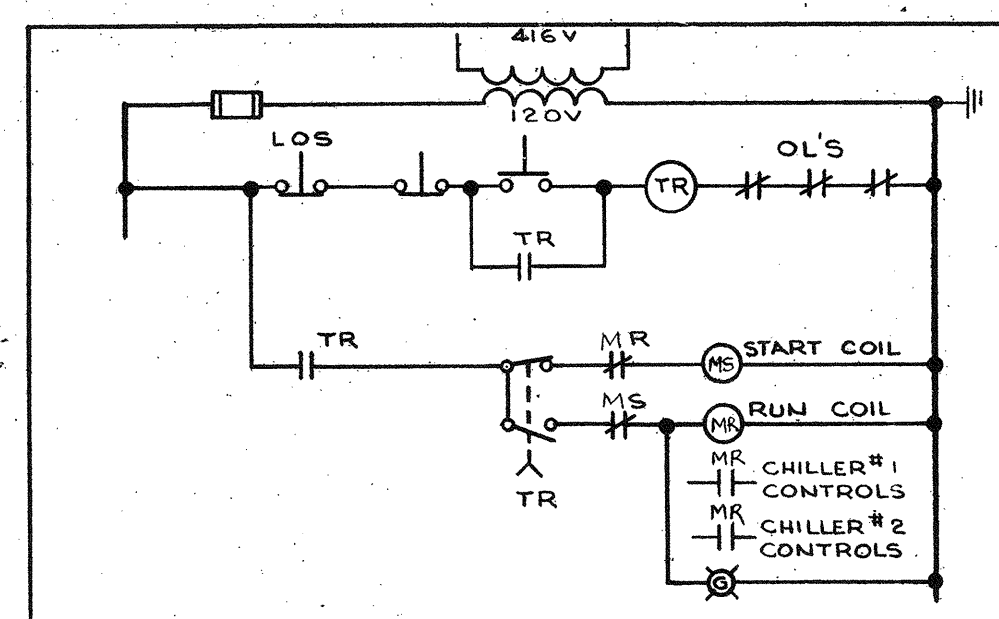
17 SCHEMATIC #16

OL'S	OVERLOAD RELAY CONTACTS
F	FIRESTAT
FA	FREEZE STAT.
FA	FAN SHUT DOWN RELAY CONTACT.
FS	FLOAT SWITCH
PE	PRESSURE ELECTRIC OPERATED SWITCH.
EP	ELECTRIC PNEUMATIC OPERATED SWITCH.
T	THERMOSTAT
TR	TIMING RELAY.
LS	LIMIT SWITCH
LOS	LOCK-OUT-STOP SWITCH.
HOA	HAND-OFF-AUTO.
PS	PRESSURE SWITCH.
DVR	DOUBLE VOLTAGE RELAY.
DS	DOOR SWITCH
CP	COMPUTER POWER SHUT DOWN RELAY CONTACT

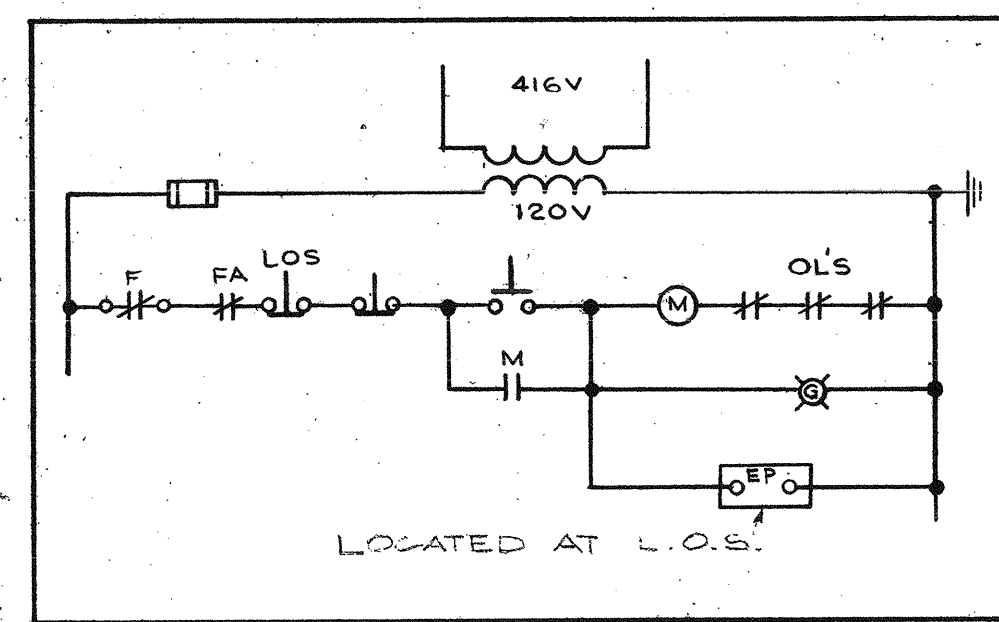
22 LIST OF ABBREVIATIONS.

ON-OFF SWITCH	ON-OFF SWITCH
HAND-OFF-AUTO SELECTOR SWITCH	HAND-OFF-AUTO SELECTOR SWITCH
NORMALLY OPEN CONTACTS	NORMALLY OPEN CONTACTS
NORMALLY CLOSED CONTACTS	NORMALLY CLOSED CONTACTS
MOTOR STARTER COIL & OVERLOADS	MOTOR STARTER COIL & OVERLOADS
RELAY COIL	RELAY COIL
MOMENTARY BREAK-STOP BUTTON	MOMENTARY BREAK-STOP BUTTON
MOMENTARY MAKE-START BUTTON	MOMENTARY MAKE-START BUTTON
PILOT LIGHT: G-GREEN; R-RED	PILOT LIGHT: G-GREEN; R-RED
DEVICE SUPPLIED AND INSTALLED BY DIVISION 15, CONNECTED BY DIVISION 16	DEVICE SUPPLIED AND INSTALLED BY DIVISION 15, CONNECTED BY DIVISION 16
CONTROL FUSE	CONTROL FUSE
MOTOR - 1Ø	MOTOR - 1Ø
HAND STARTER WITH OVERLOAD	HAND STARTER WITH OVERLOAD
ELECTRIC OPERATED PNEUMATIC SWITCH.	ELECTRIC OPERATED PNEUMATIC SWITCH.
CONTROL TRANSFORMER	CONTROL TRANSFORMER

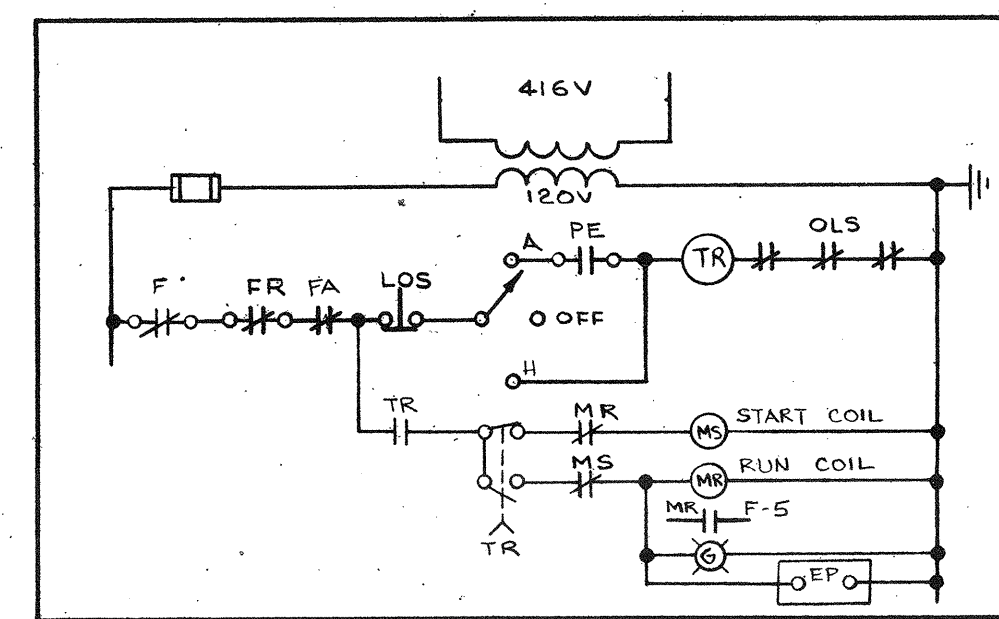
27 LEGEND OF SYMBOLS FOR SCHEMATICS



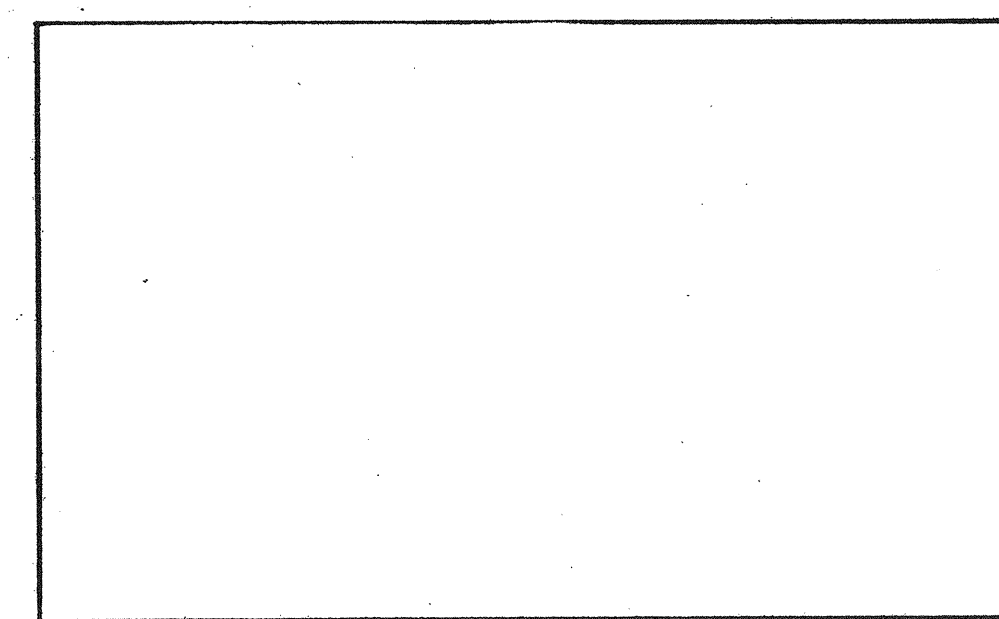
3 SCHEMATIC #2



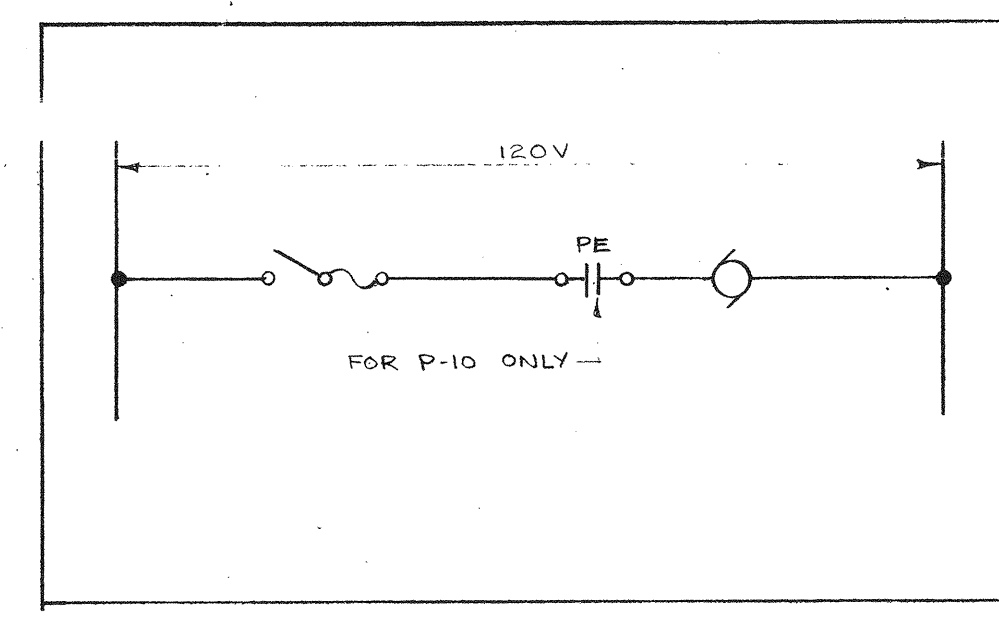
8 SCHEMATIC #7



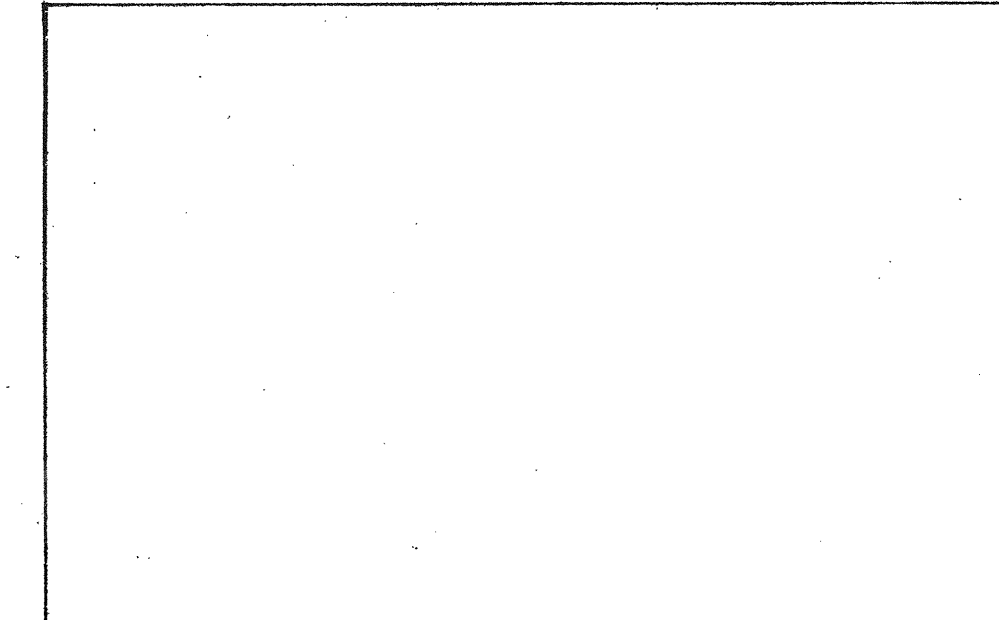
13 SCHEMATIC #12



18 SCHEMATIC #17



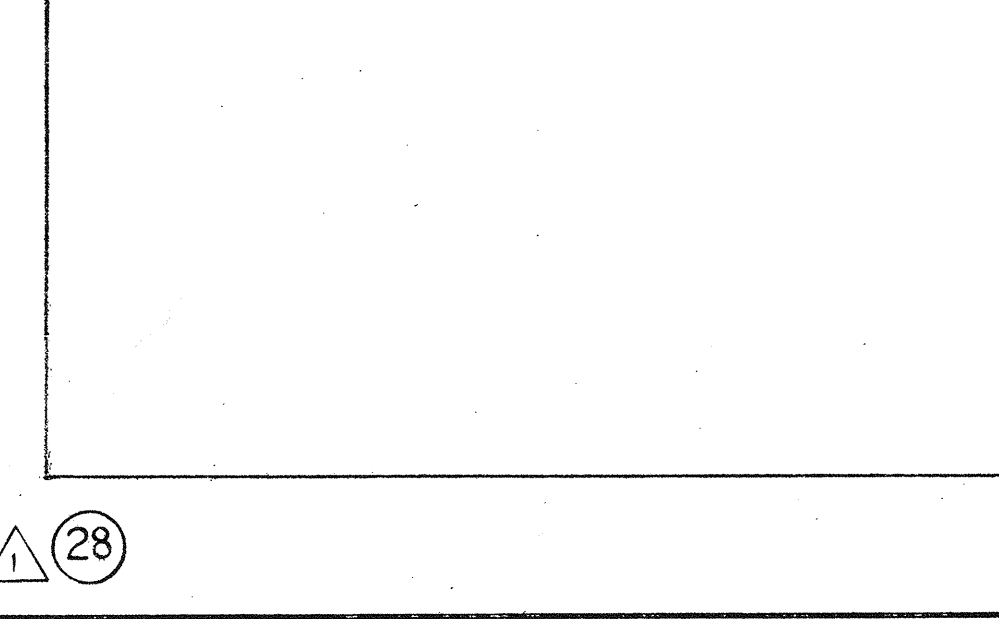
23 SCHEMATIC #21



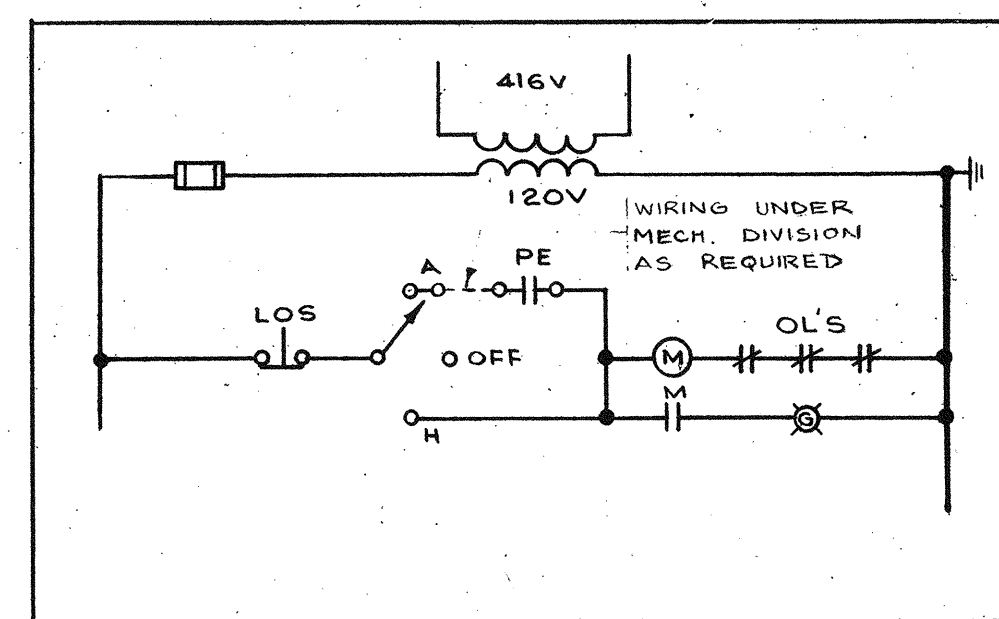
28 SCHEMATIC #26



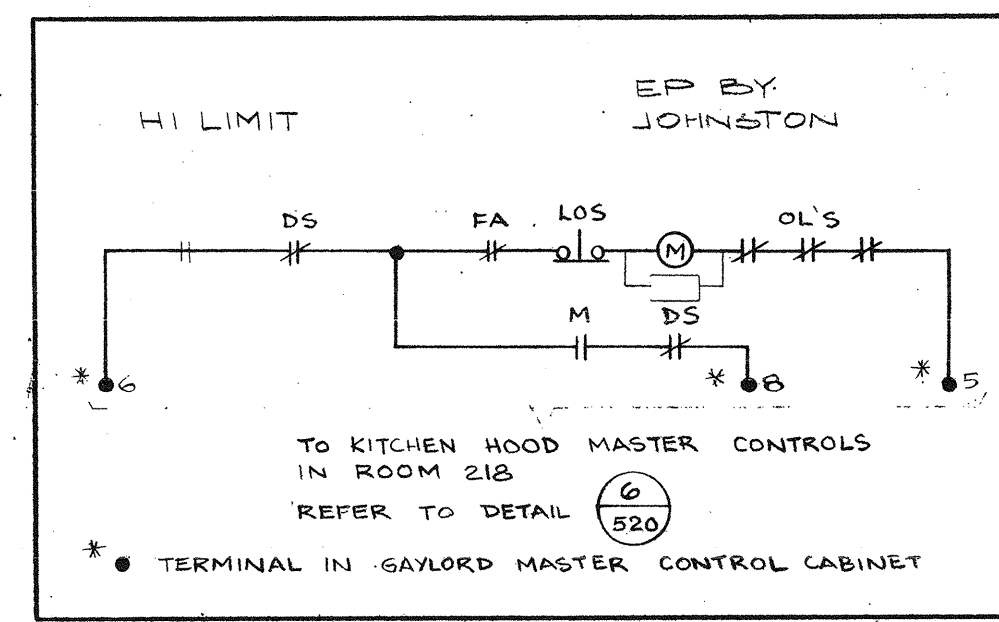
33 SCHEMATIC #31



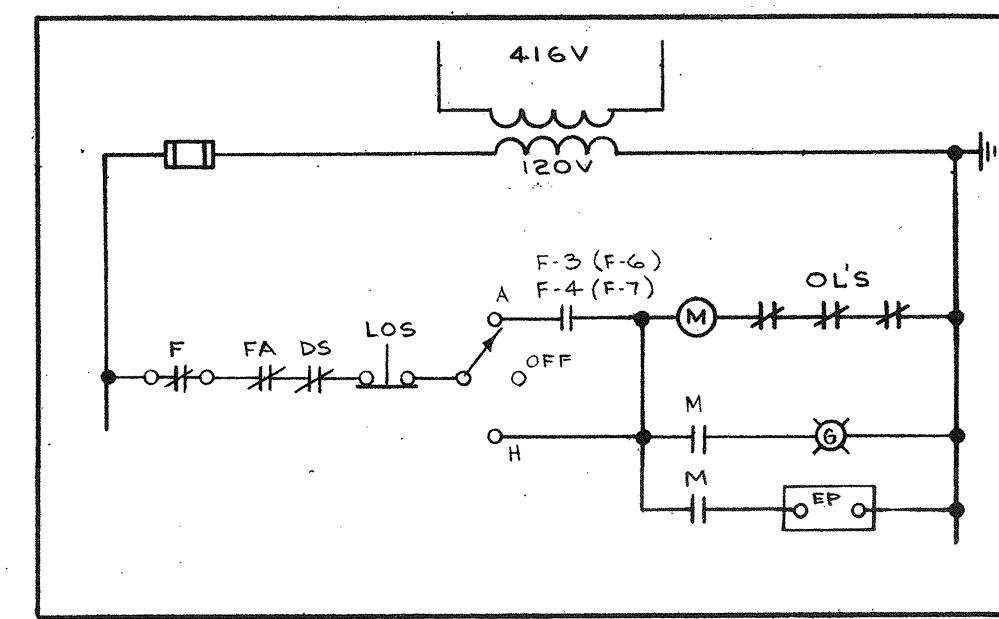
38 SCHEMATIC #36



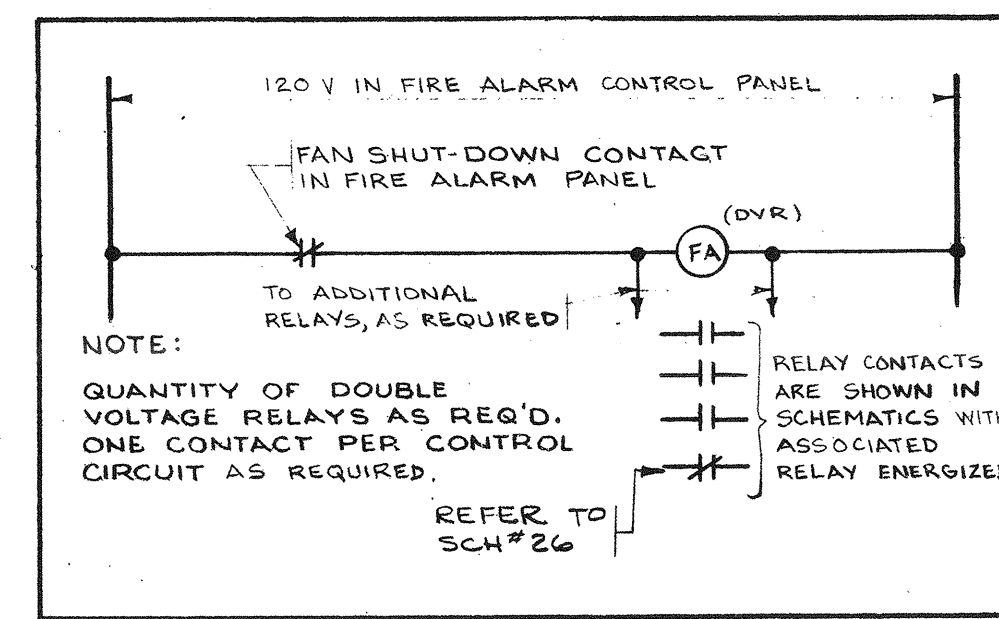
4 SCHEMATIC #3



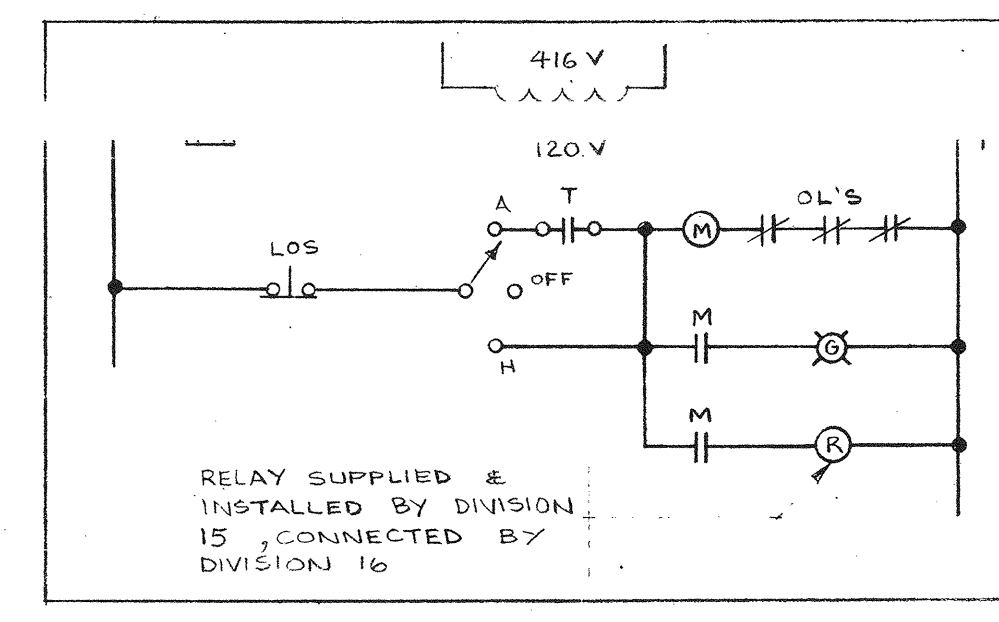
9 SCHEMATIC #8



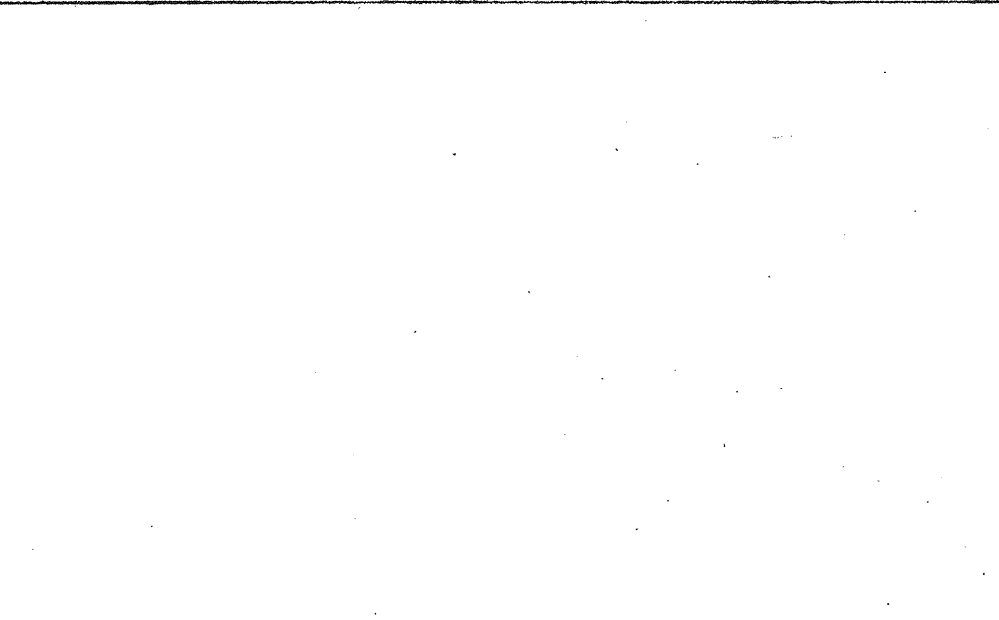
14 SCHEMATIC #13



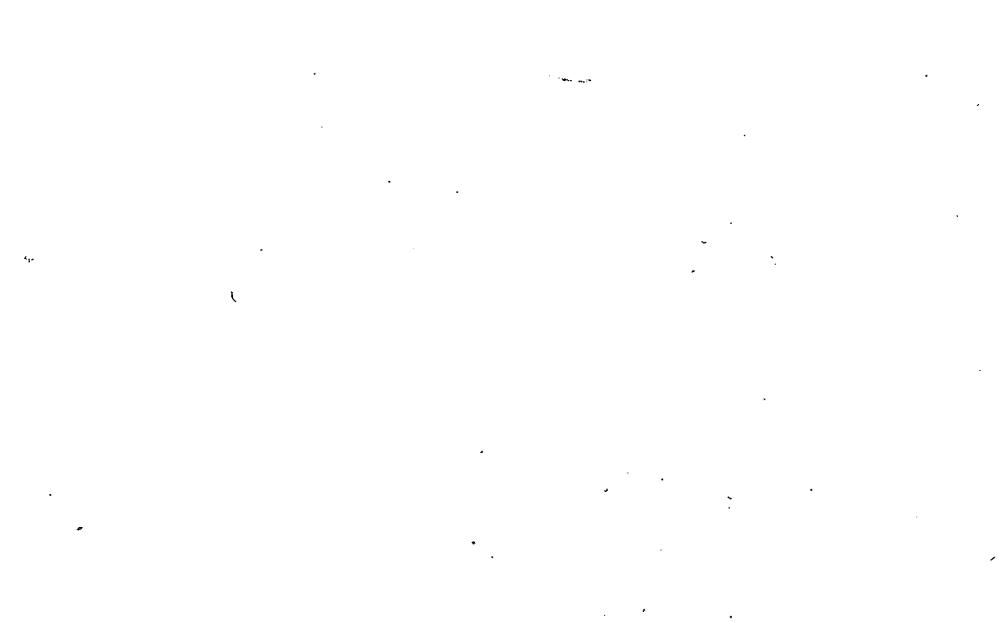
19 SCHEMATIC #18



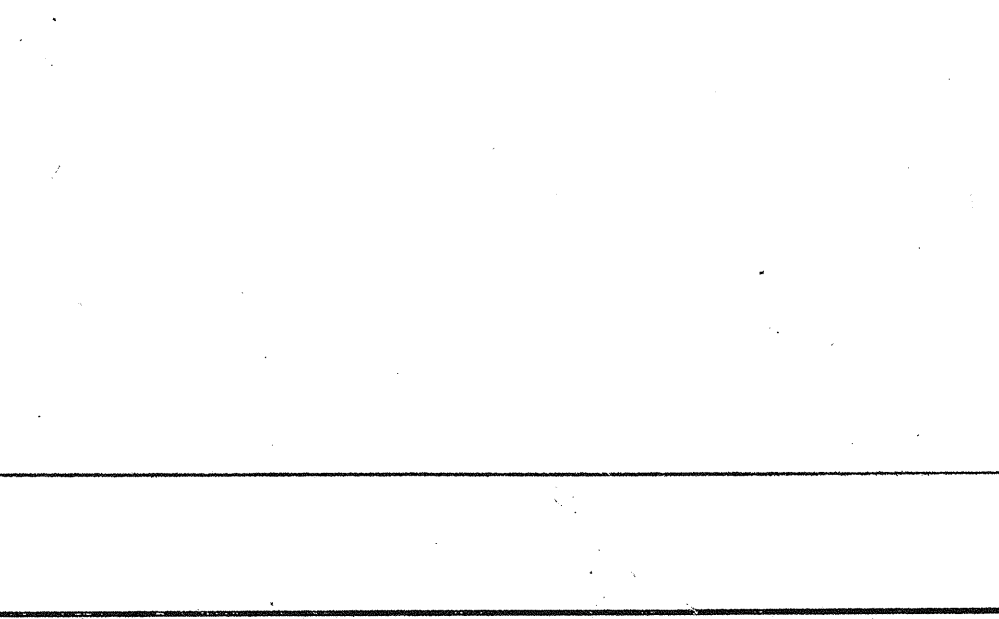
24 SCHEMATIC #22



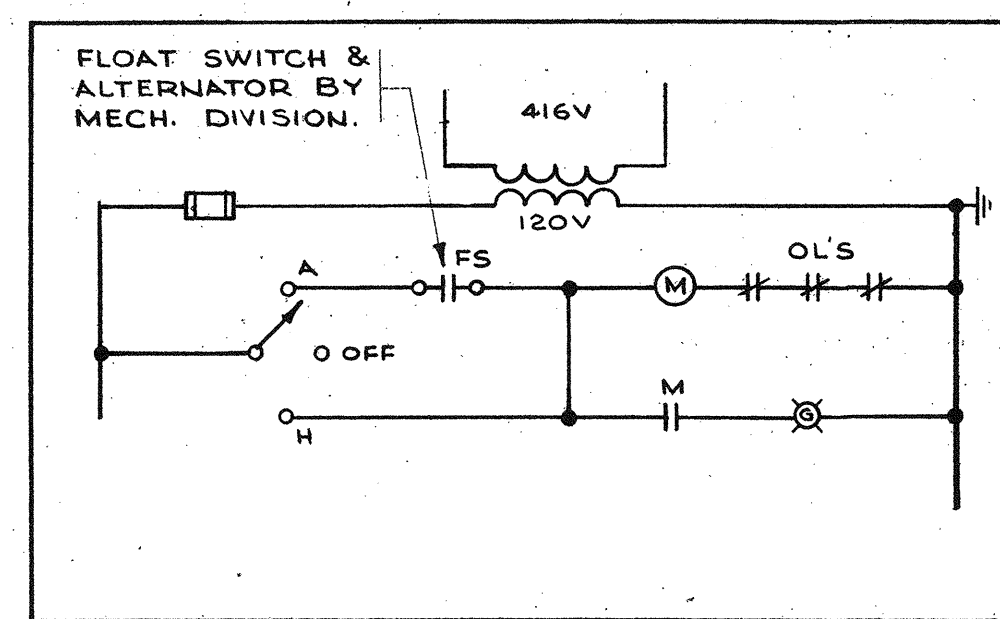
29 SCHEMATIC #26



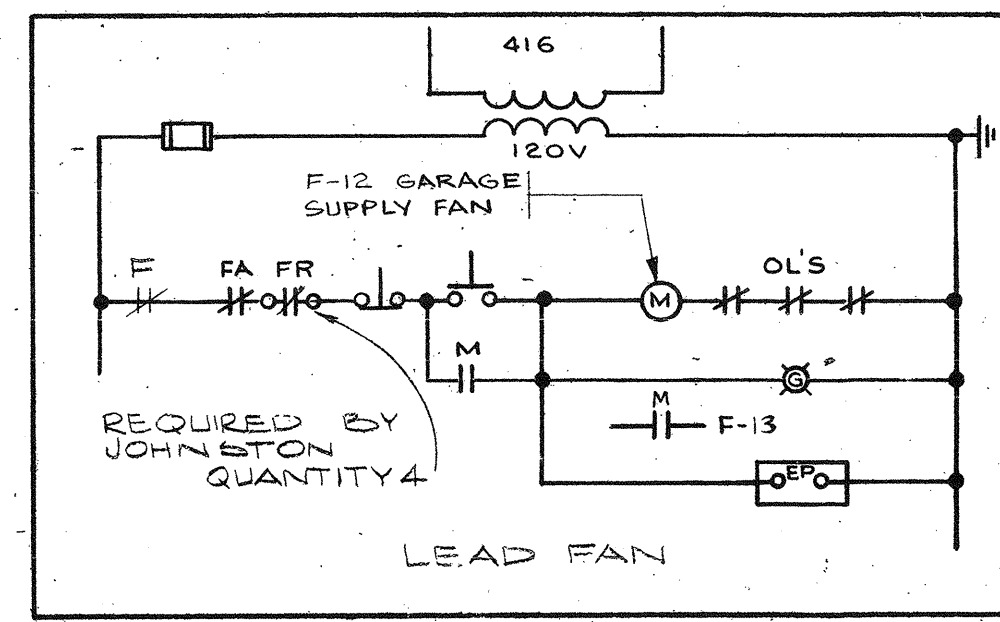
34 SCHEMATIC #31



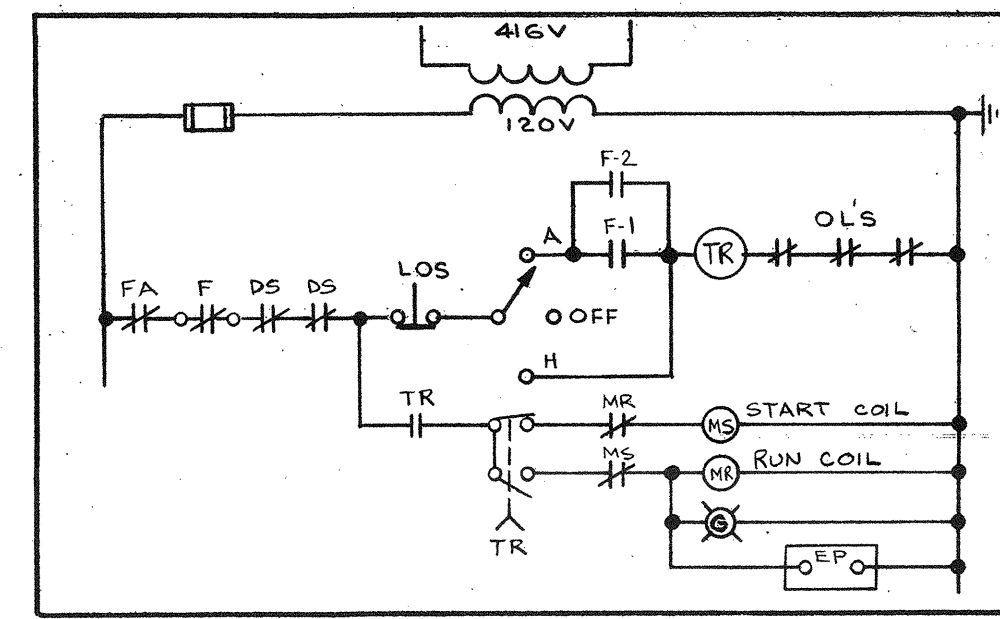
39 SCHEMATIC #36



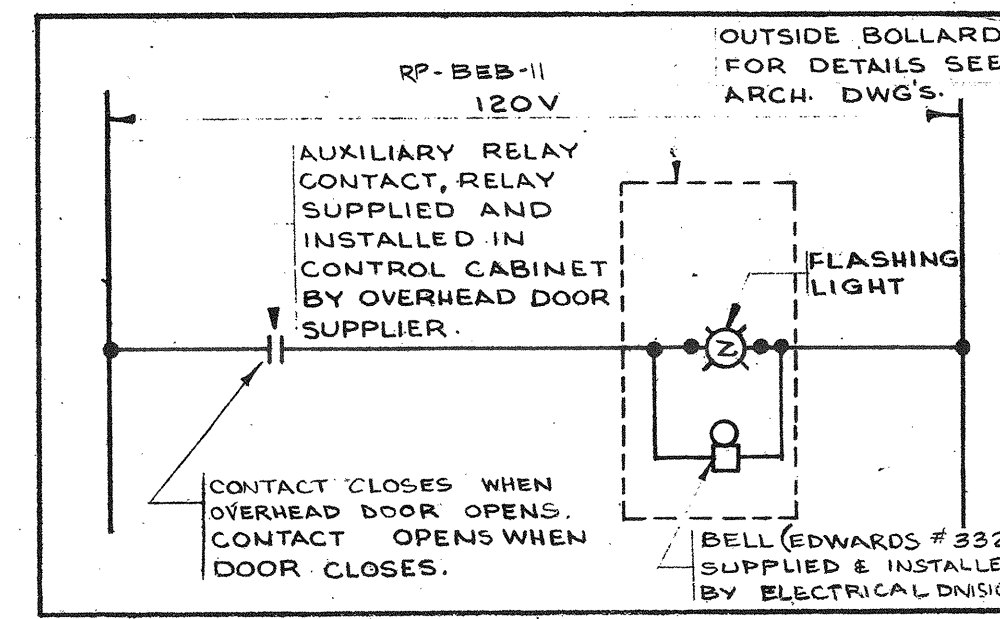
5 SCHEMATIC #4



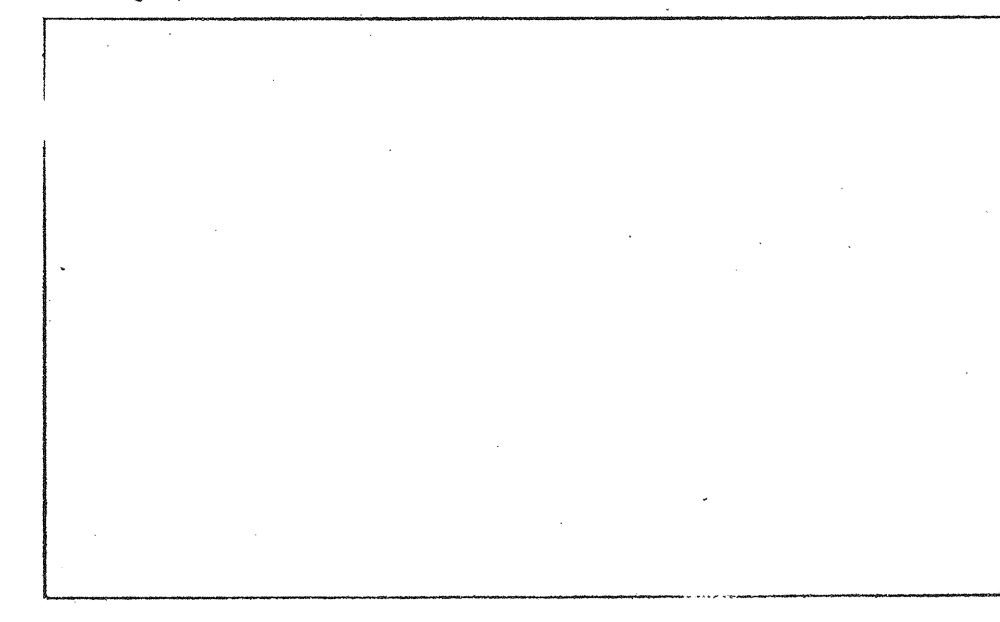
10 SCHEMATIC #9



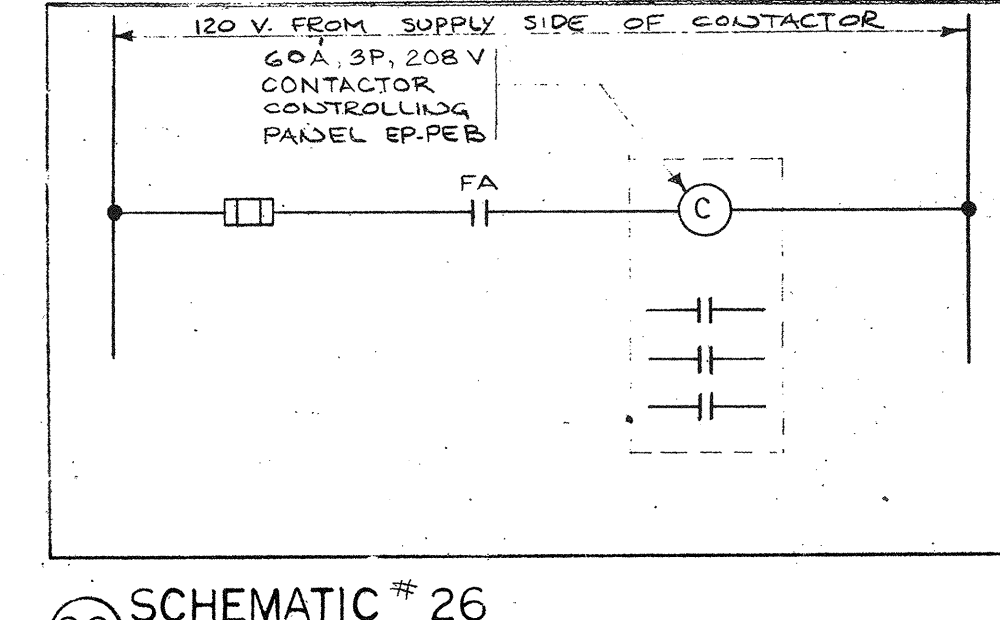
15 SCHEMATIC #14



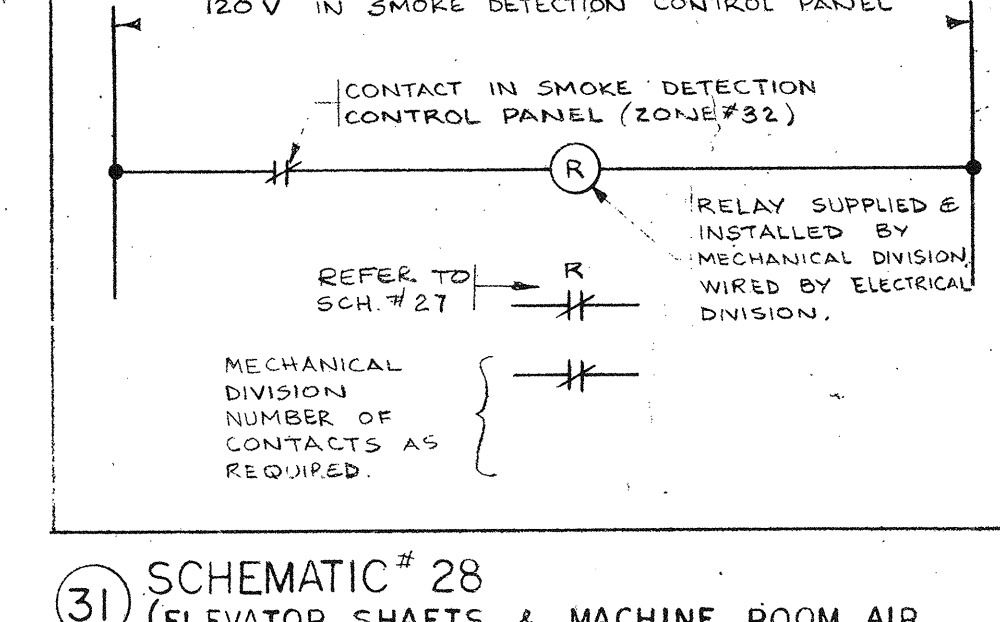
20 SCHEMATIC #19



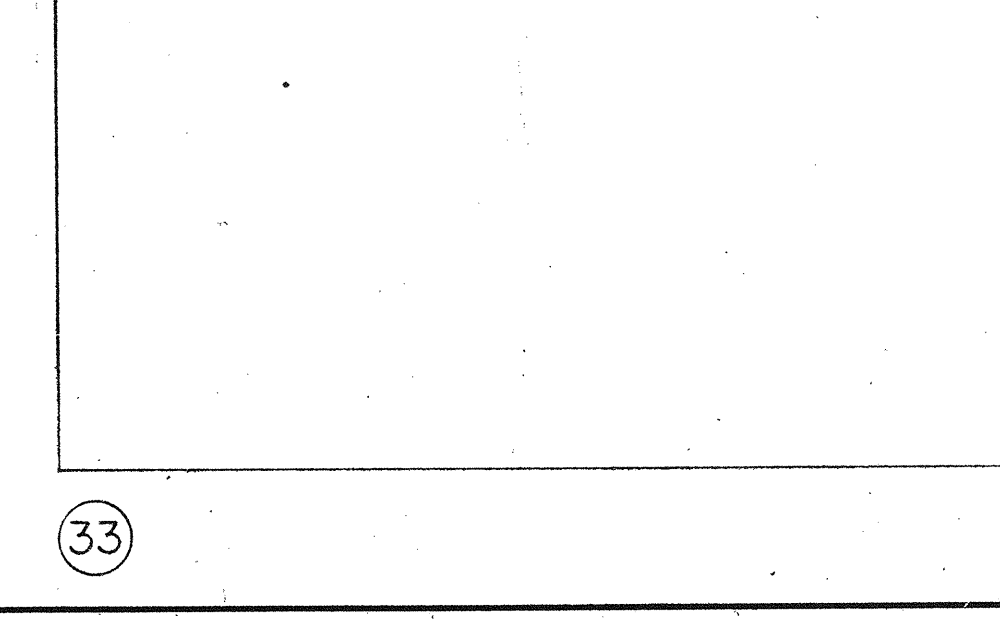
25 SCHEMATIC #24



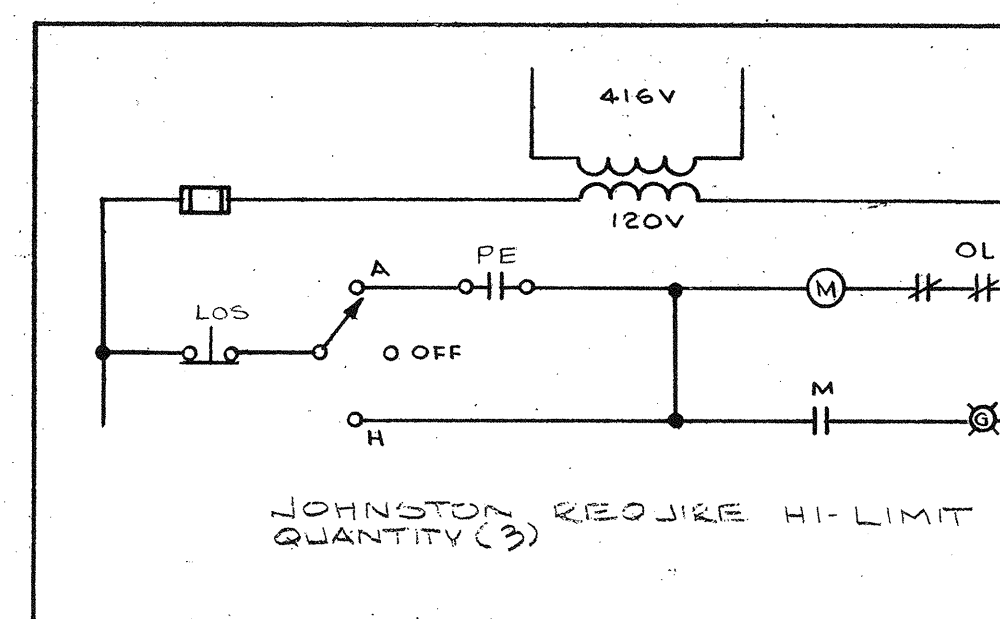
30 SCHEMATIC #29



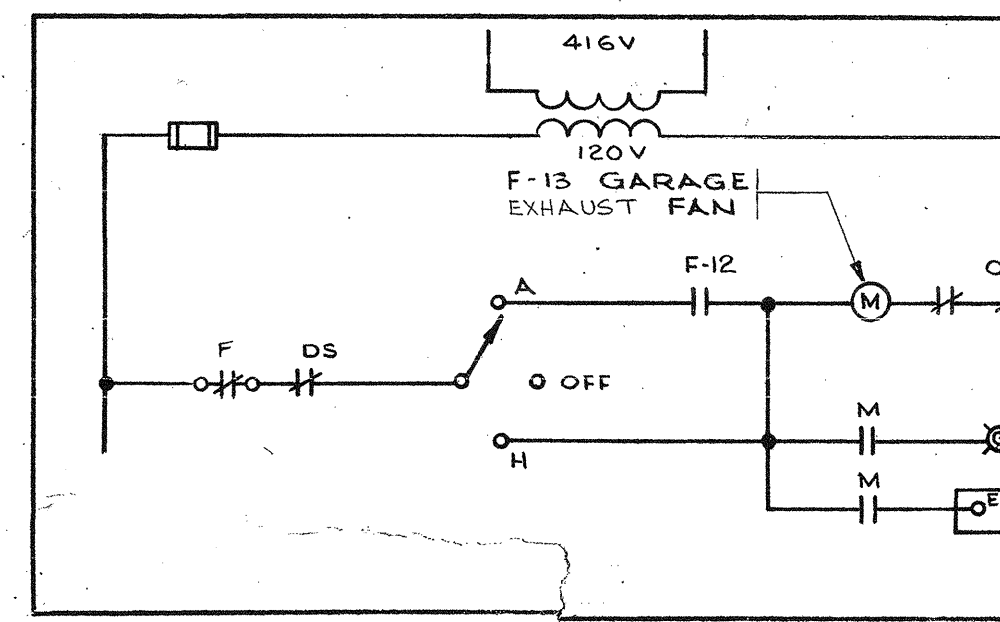
35 SCHEMATIC #34



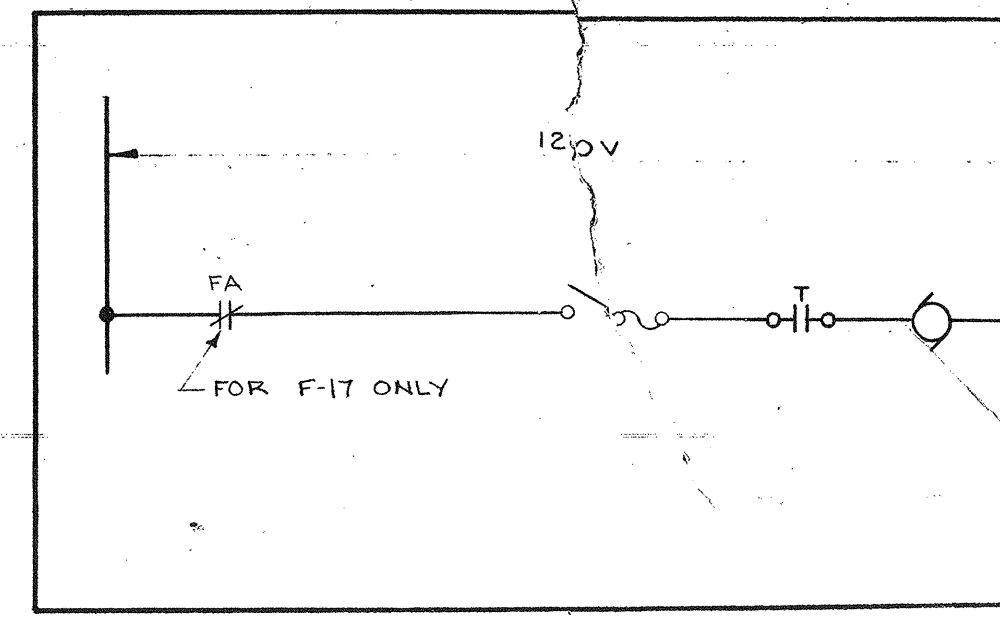
40 SCHEMATIC #39



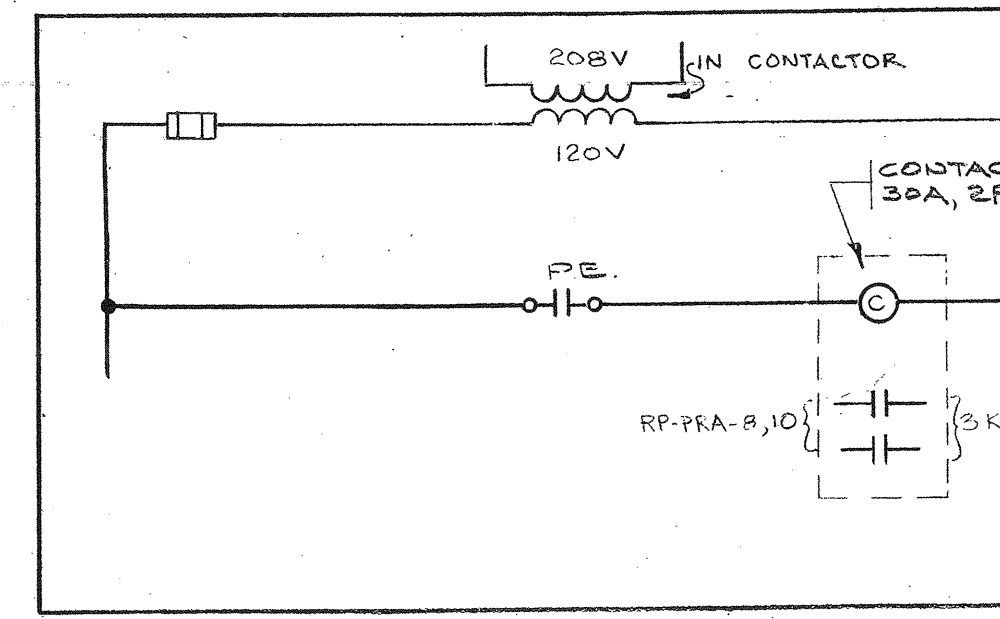
6 SCHEMATIC #5



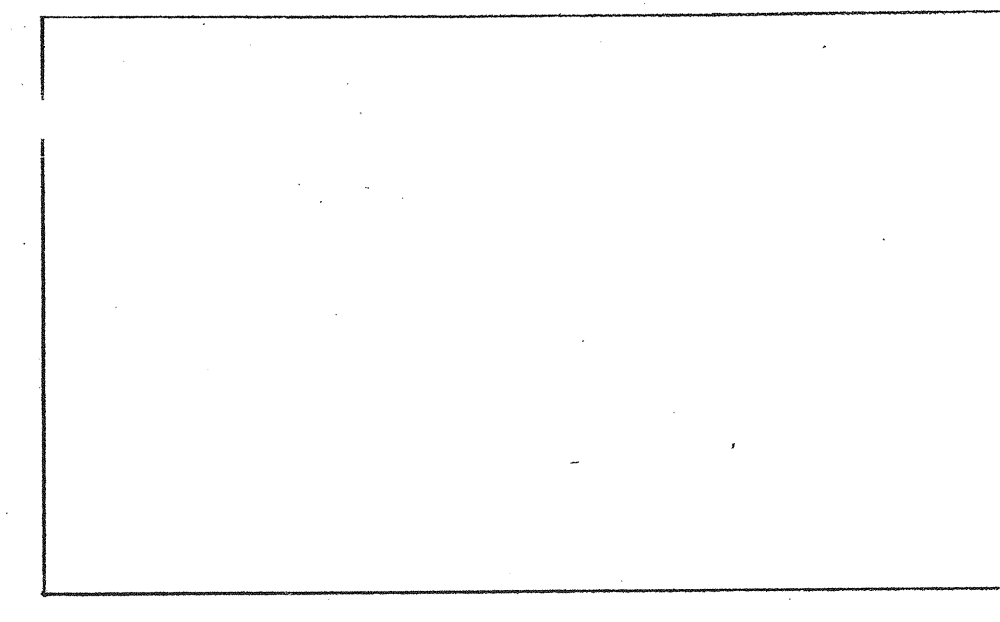
11 SCHEMATIC #10



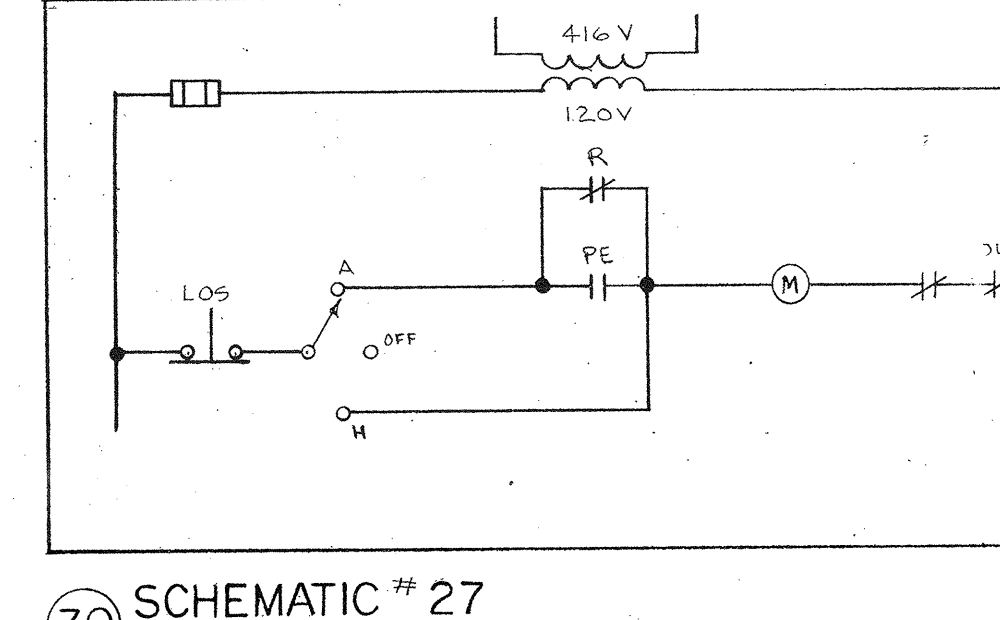
16 SCHEMATIC #15



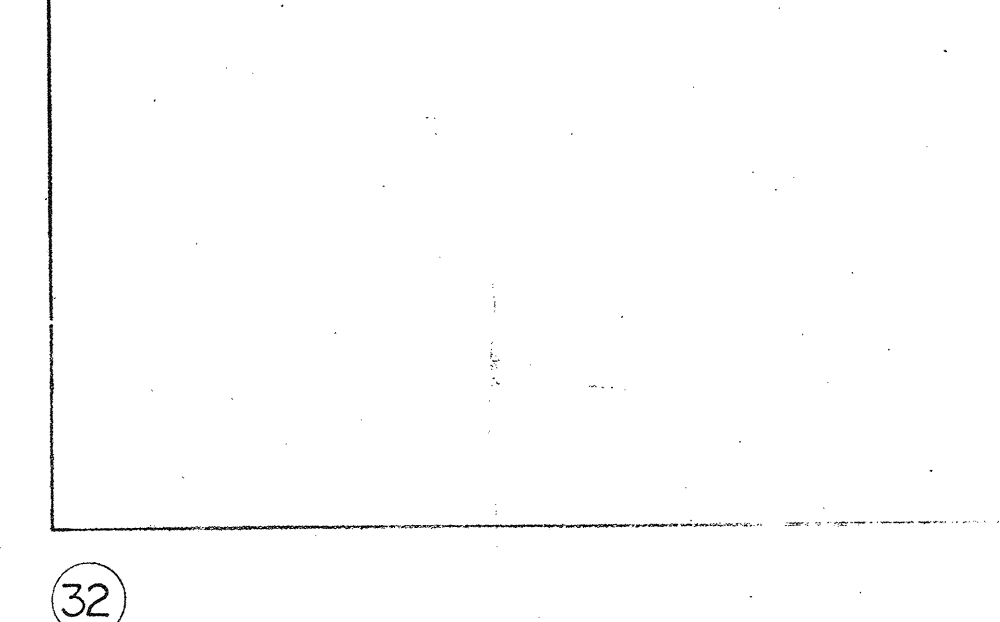
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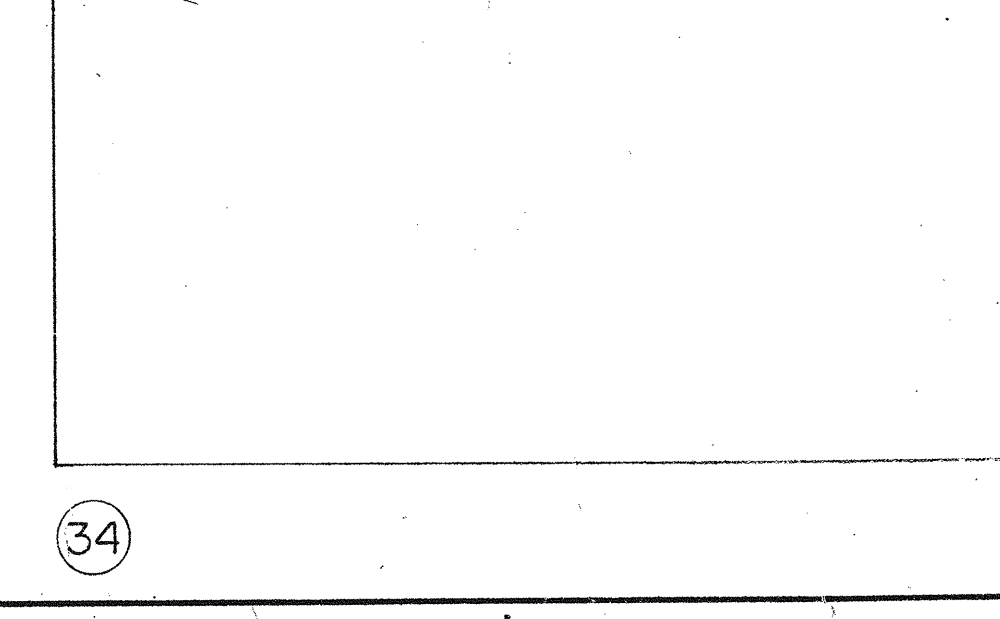
26 SCHEMATIC #25



31 SCHEMATIC #30



36 SCHEMATIC #35



41 SCHEMATIC #40

NOTES:
* UNLESS NOTED OTHERWISE,
ALL START-STOP PUSH
BUTTONS, SELECTOR SWITCHES
AND PILOT LIGHTS SHALL
BE MOUNTED ON STARTS
SCHEMATIC #19 FOR
SCHEMATIC #10 FOR

Revisions	Drawn	Checked	Date
1	GM	GM	1/1/71
2	GM	GM	1/1/71
3	GM	GM	1/1/71
4	GM	GM	1/1/71
5	GM	GM	1/1/71
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50	GM	GM	1/1/71

NATIONAL LIFE OF CANADA

Head Office Building
University Avenue, Toronto, Canada

Searle Wilbee Rowland
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**ELECTRICAL
MCC'S AND
SCHEMATICS**

Sheet
Title
Scale
None
Sheet Number
69039-518