

MULTI-ZONE AIR HANDLING UNIT

EQUIPMENT SCHEDULE (FOR BUILDINGS ONLY)

SYMBOL	DESCRIPTION	DATE	APPROVED

UNIT NO.	SERVICE	LOCATION	FAN SECTION				COOLING COIL (972000 BTU/HR. TOTAL / 539200 BTU/HR. SENS.)				HEATING COIL				ELECTRICAL DATA				REMARKS:
			TOTAL CFM	ZONE 1 CFM	ZONE 2 CFM	ZONE 3 CFM	ENT. AIR TEMP.	LEA. AIR TEMP.	MAX. HEAD	FAN H.P.	ENT. AIR TEMP.	LEA. AIR TEMP.	MAX. HEAD	FAN H.P.	VOLTS	PHASE	STARTER		
MZ-1	DINING ROOM	MECH. EQUIP. RM.	13,600	4,400	1,900	3,500	84.00	85.00	31.8	16,000	85.00	85.00	18.2	16,000	208	3	MCC	(A)(LH)(FG)*	

CONDENSING UNIT - AIR CONDITIONING - SCALE FACTOR 0.0005

UNIT NO.	LOCATION	TONS	REFRIG.	SUCT. TEMP.	COND. TEMP.	MAX. RPM	MAX. FLO.	MAX. LEA.	ENT. WATER	LEA. WATER	GPM	PRESS. DROP	VOLTS	PHASE	STARTER	REMARKS:	UNIT NO.	SERVICE	LOCATION	SIZE	CAPACITY	REMARKS:
1	MECH. EQUIP. RM.	81	F-22	41°F	105°F	1750	218	1050	85°F	95°F	243	10 FT.	208	3	SEE SPECS	(C)(LH)* CAPACITY REDUCTION 67% - 50% - 33%	BT-1	HOT WATER SYSTEM	MECHANICAL EQUIP. ROOM	20' Ø x 66"	80 GALS.	

UNIT COOLERS - REFRIGERATION

UNIT NO.	SERVICE	EVAP. TEMP.	ROOM TEMP.	REFRIG.	CAPACITY	FAN	MOTOR	ELECTRICAL DATA	ELECTRIC	REMARKS:	UNIT NO.	SERVICE	LOCATION	TANK SIZE	DISPL. CFM	COMP. RPM	MOTOR HP	ELECTRICAL DATA	REMARKS:		
					BTUH	CFM	RPM	SIZE	HP												
UC-1	MEAT FREEZER	-11°F	0°F	REFRIG.	26,400	5500	1140	2 0/16"	1/2	(M)(LH)(FG)*	UC-2	MEAT REFRIG.	MECH. EQUIP. RM.	30 GALS.	4.33	610	34	208	3	MCC	(A)(LH)(FG)*

CONDENSING UNIT - REFRIGERATION - SCALE FACTOR 0.0005

UNIT NO.	SERVICE	LOCATION	SUCT. TEMP.	COND. TEMP.	REFRIG.	CAPACITY	CONDENSER	MOTOR	ELECTRICAL DATA	REMARKS:					
						BTUH	ENT. WAT. LEA. WAT. G.P.M.	H.P.	VOLTS/PHASE/STARTER						
CU-1	FREEZER	MECH. EQUIP. RM.	-12°F	100°F	REFRIG.	25,750	85°F	95°F	9	10.0 FT.	7 1/2	208	3	MCC	(A)(LH)(FG)*

HEATING COILS - HOT WATER

UNIT NO.	SERVICE	LOCATION	CFM	BTUH	ENT. AIR	LEA. AIR	MAX. HEAD	FAN H.P.	ENT. WATER	LEA. WATER	G.P.M.	WATER P.D.	AIR FRIC.	RETURN SIZE	REMARKS:	
EH-1	BAKERY	BAKERY	825	26,750	55°F	85°F	1.75	24"	12"	200	180	2.67	2 FT.	1.5"	3/4"	3/4"

FANS - NOTE: ALL HOOD FANS TO HAVE UP DRAFT DISCHARGE.

UNIT NO.	SERVICE	LOCATION	TYPE	DCING	CFM	STATIC PRESS.	DIA.	R.P.M.	H.P.	ELECTRICAL DATA	REMARKS:		
					HIGH LOW					VOLTS/PHASE/STARTER			
F-1	MECH. EQUIP. RM.	ROOF	CENT. RE. SKM.	V-BELT	20,720	3/8"	48"	446	5	208	3	MCC	W/AUTOMATIC (GRAVITY) DAMPERS (A)(LH)(FG)

COOLING TOWERS

UNIT NO.	SERVICE	LOCATION	TONS	GPM	ENT. AIR	LEA. WATER	MAX. HEAD	FAN H.P.	ELECTRICAL DATA	REMARKS:		
									VOLTS/PHASE/STARTER			
CT-1	CONDENSING UT	OUTSIDE	81	243	78°F	85°F	14 FT.	1	208	3	MCC	(A)(LH)(FG)*

CONVERTOR

UNIT NO.	SERVICE	LOCATION	CFM	STEAM PRESS.	35/50	GPM	ENT. WATER	LEA. WATER	MAX. PRESS.	FOULING FACTOR	REMARKS:
C1	REHEAT COILS	MECH. EQUIP. RM.	660,000	2 PSIG	390	66	180°F	200°F	2 FT.	0.001	

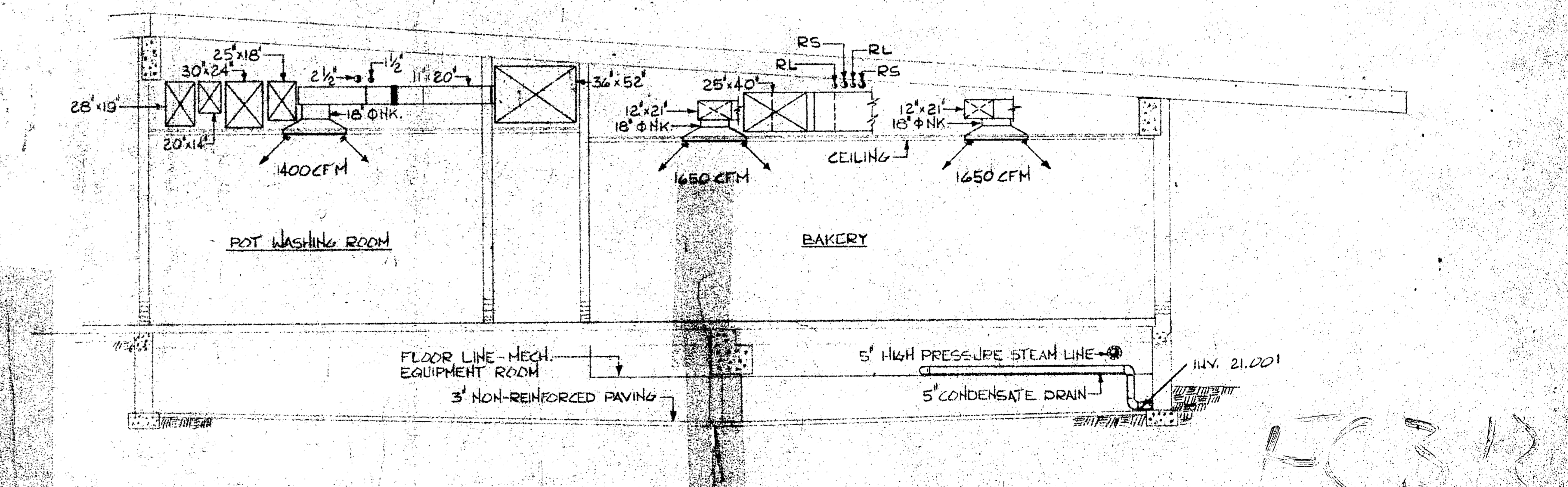
PUMPS

UNIT NO.	SERVICE	LOCATION	TYPE	GPM	HEAD FT.	R.P.M.	MOTOR H.P.	ELECTRICAL DATA	REMARKS:		
								VOLTS/PHASE/STARTER			
P-1	CONDENSER WATER	MECH. EQUIP. RM.	CENT. END SUCT.	243	46	1750	5	208	3	MCC	(A)(FG)

**MOTOR CONTROL NOTES**

- A - FVNR\* STARTER
- D - FVNR\* 2-SPEED STARTER
- C - REDUCED VOLTAGE STARTER WYE-DELTA
- D - START - STOP PUSH-BUTTON
- B - HAND-OFF-AUTO SWITCH
- F - REMOTE CONTROL DEVICES
- G - REMOTE MOUNTED
- H - ON CONTROL PANEL
- J - ON STARTER
- K - PILOT LIGHT
- L - TWO SPEED SELECTOR SWITCH
- M - MANUAL SWITCH or STARTER
- N - PROVIDED UNDER MECHANICAL SECTION
- O - IN MOTOR CONTROL CENTER (MCC)
- P - IN MOTOR CONTROL PANEL BOARD
- Q - NEMA I ENCLOSURE
- R - MOUNTED ON TROUGH
- S - AUX CONTACT ON SWITCH FOR CONTROL Ckt. DISC.\*\*\*
- T - COMBINATION MAGNETIC WITH FUSED DISCONNECT
- U - PRESSURE SWITCH
- V - ALARM Ckt.\*\*

\*FVNR - FULL VOLTAGE, NON-REVERSIBLE  
 \*\*Ckt. - CIRCUIT  
 \*\*\*DISC. - DISCONNECT



SECTION SCALE: 1/4"=1'-0"

GRAPHIC SCALE

REF. NO. SH. M-16	J. N. PEASE ASSOCIATES CHARLOTTE, NORTH CAROLINA ARCHITECTS-ENGINEERS	DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS ATLANTIC DIVISION NORFOLK 11, VIRGINIA MARINE CORPS BASE NORTH CAROLINA
DESIGN BY: DR. R. Q. CHAMBERLAIN	PROJ. MGR. D.M. MACKINTOSH, AIA, PE	CAMP LEJEUNE
SUBMITTED BY: [Signature]	DATE: [Date]	FORCE TROOPS COMPLEX SUBSISTENCE BUILDING EQUIPMENT SCHEDULE
DESIGNED BY: [Signature]	DATE: [Date]	Y & D DRAWING SET
DR. [Signature]	DATE: [Date]	SIZE: F CODE: 80091 IDENT. NO.: H07049

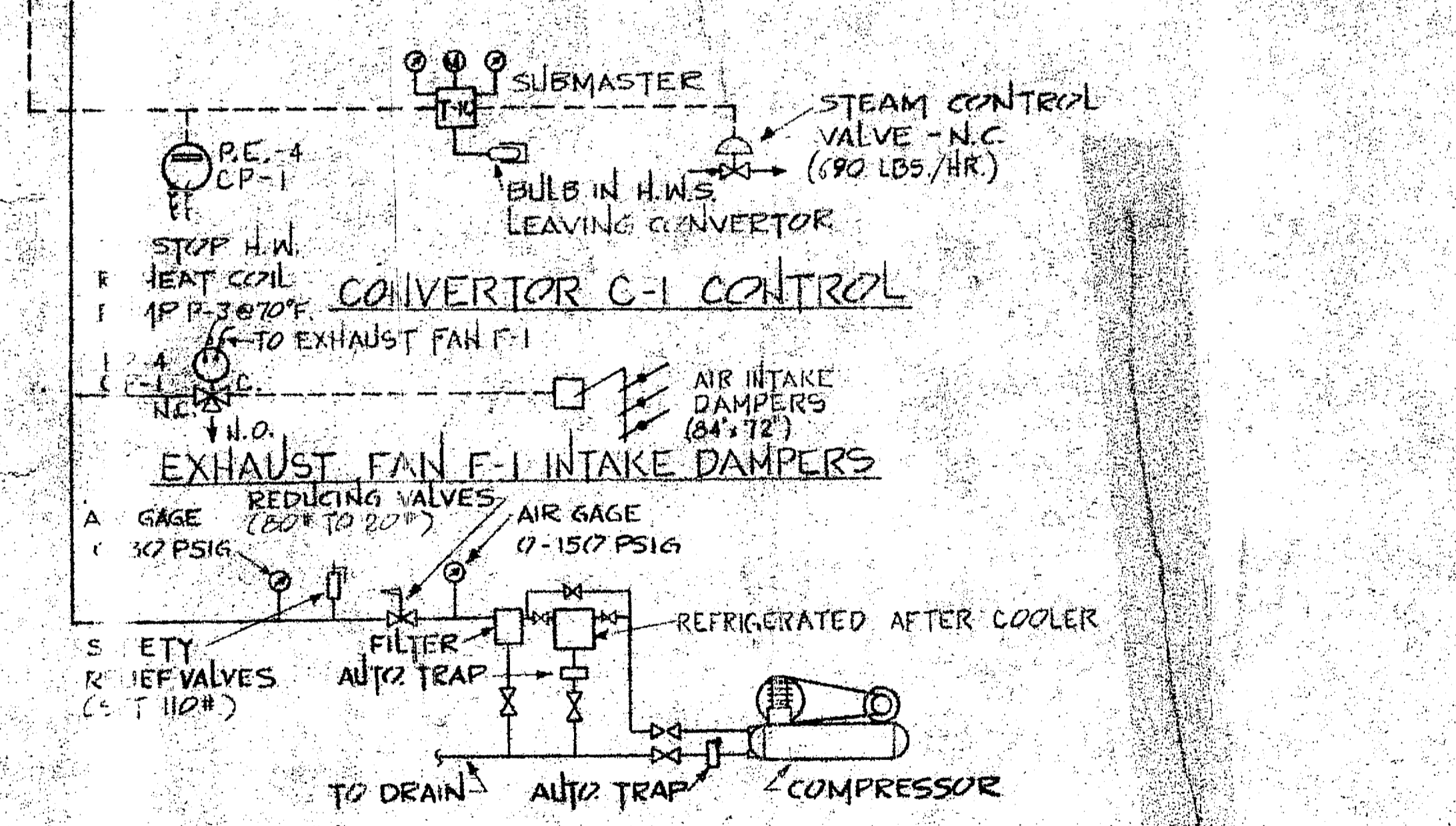
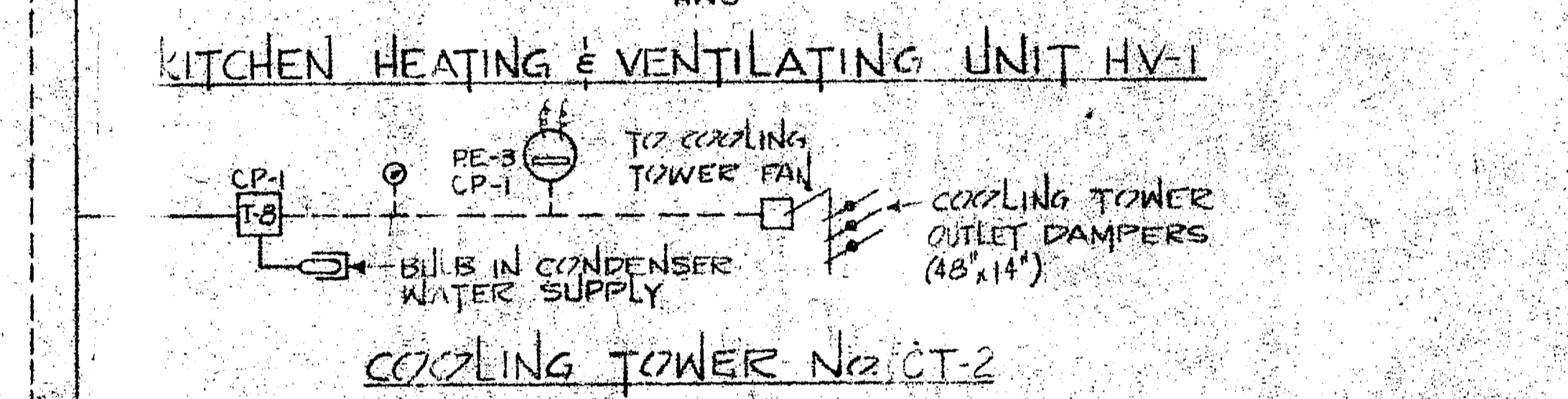
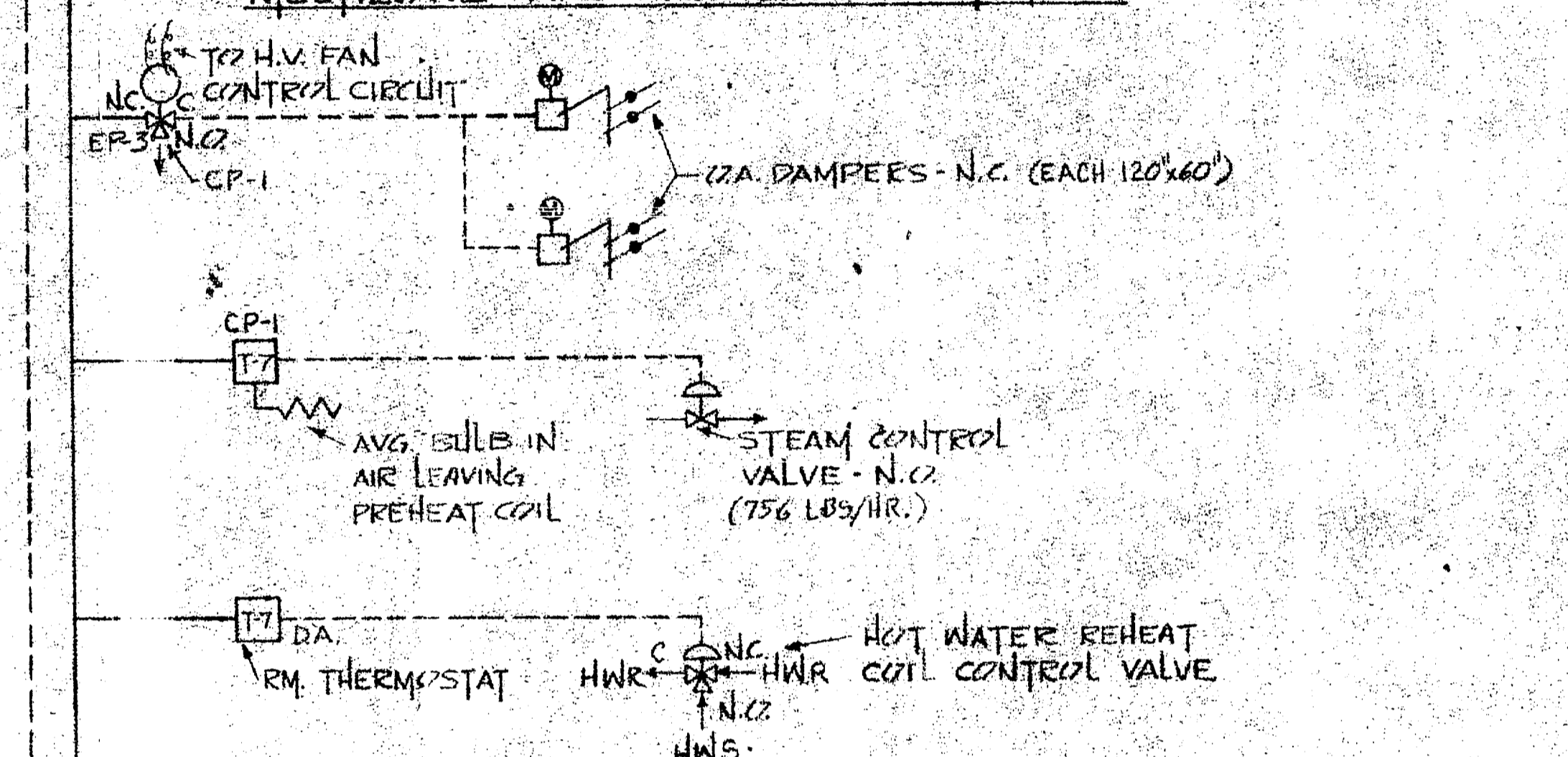
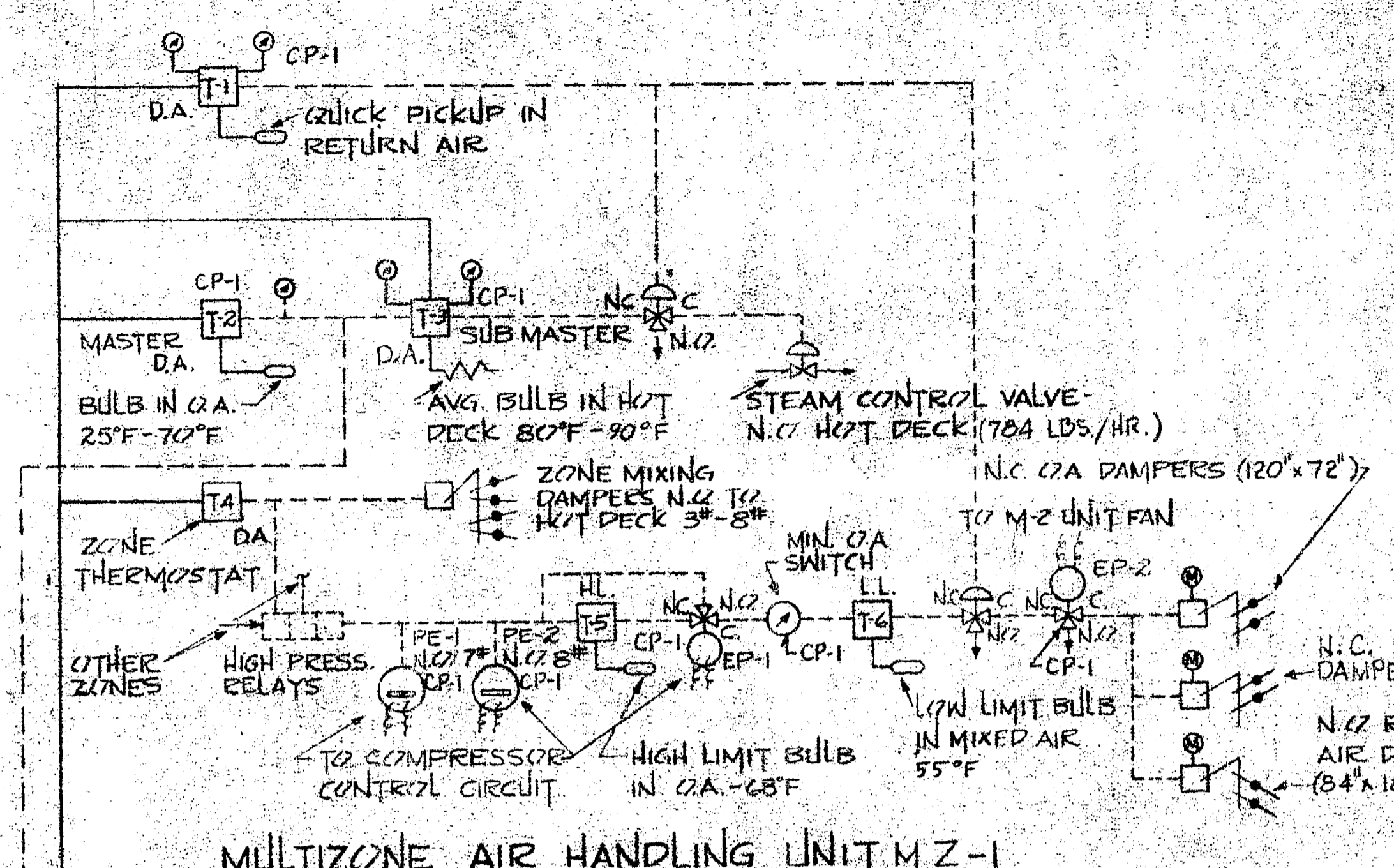
\*SEE MOTOR CONTROL NOTES THIS SHEET



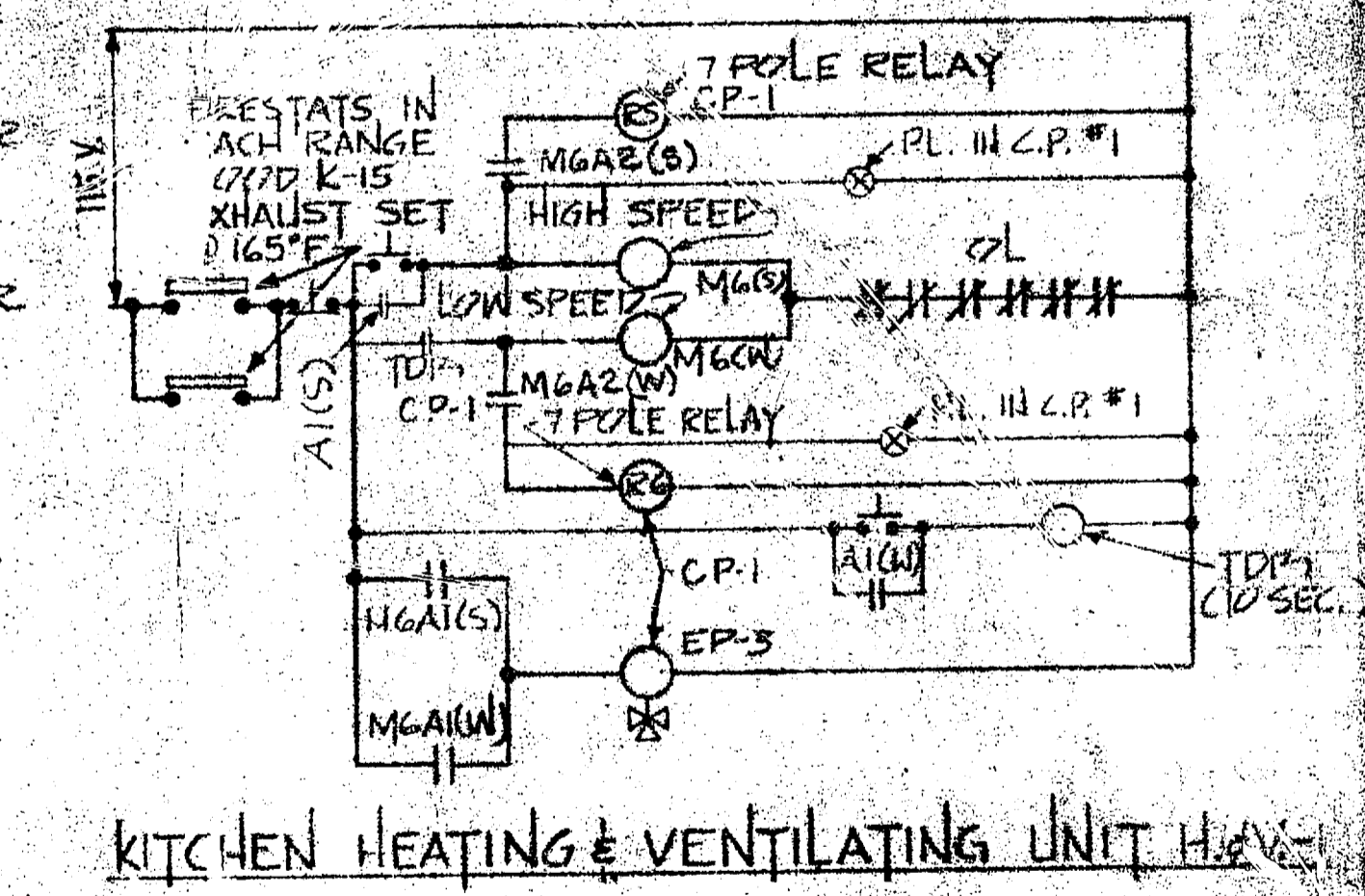
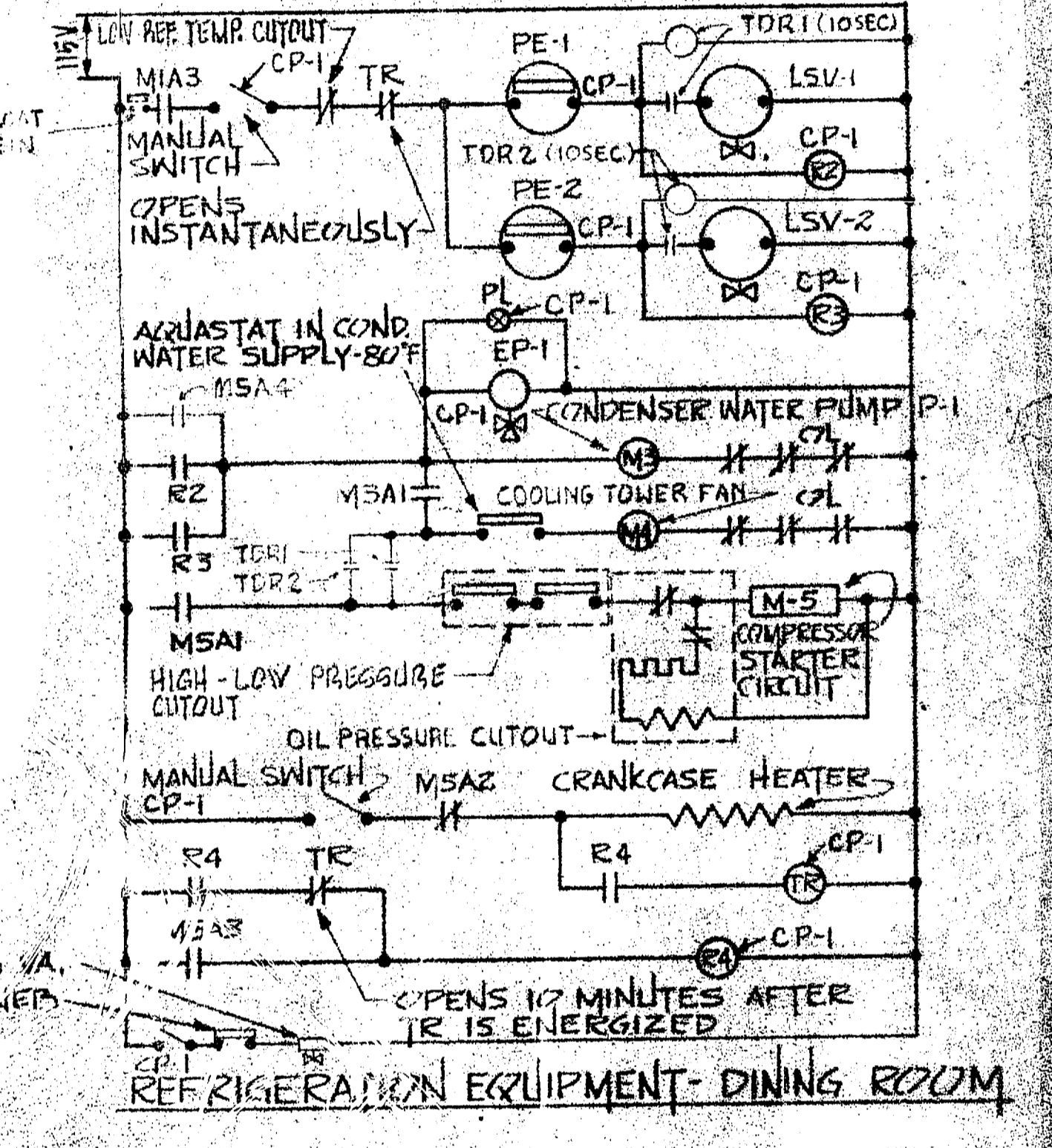
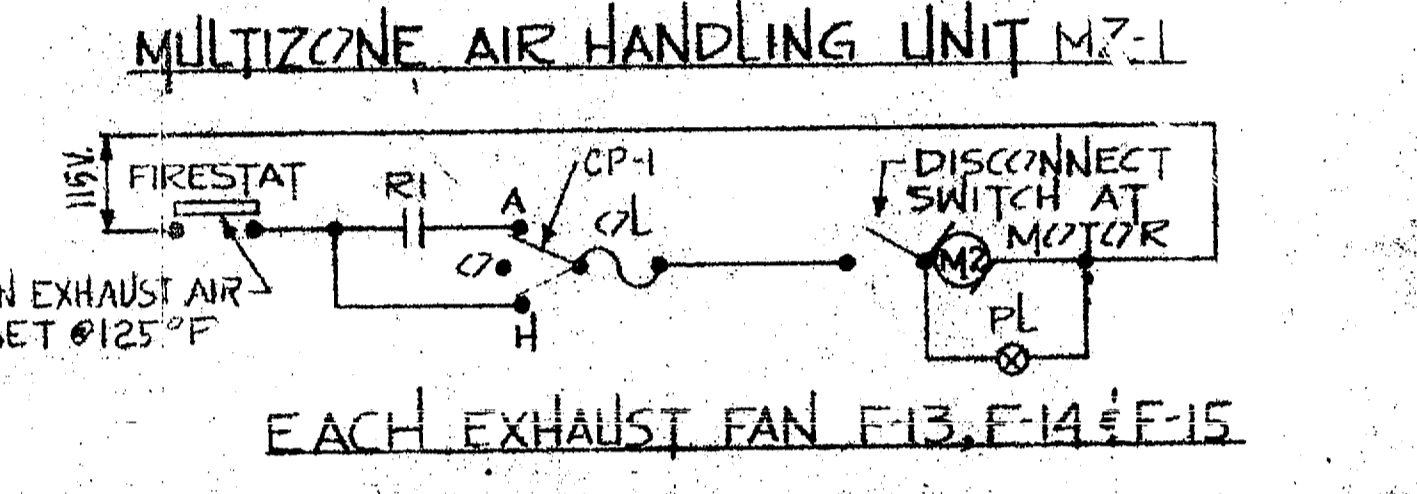
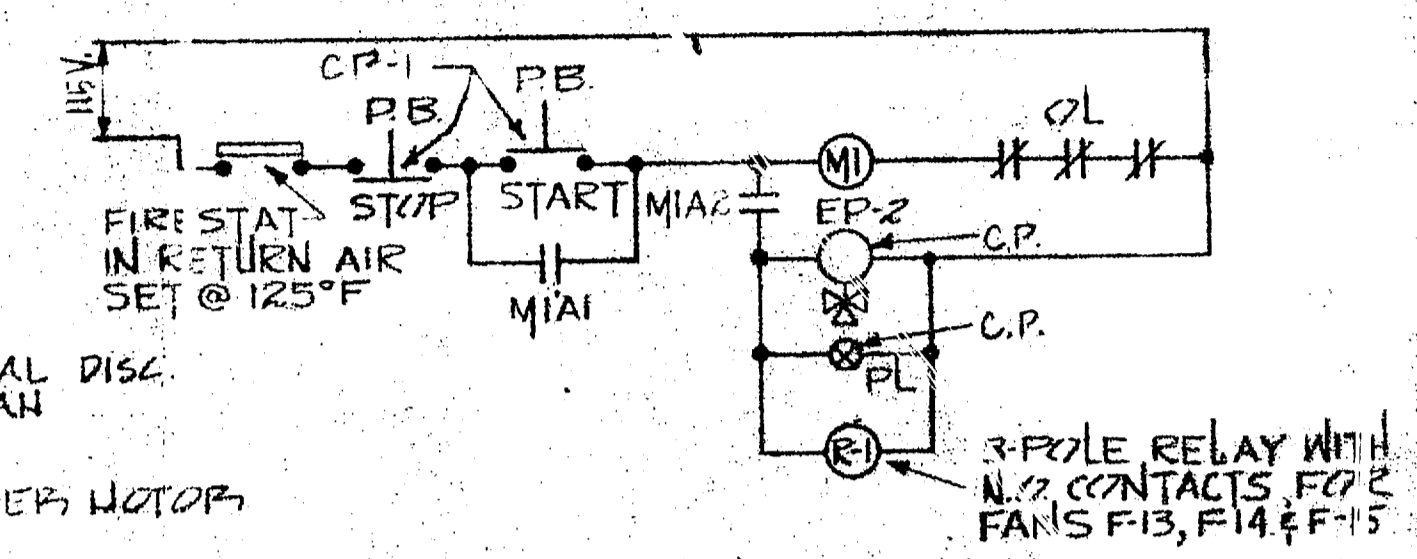
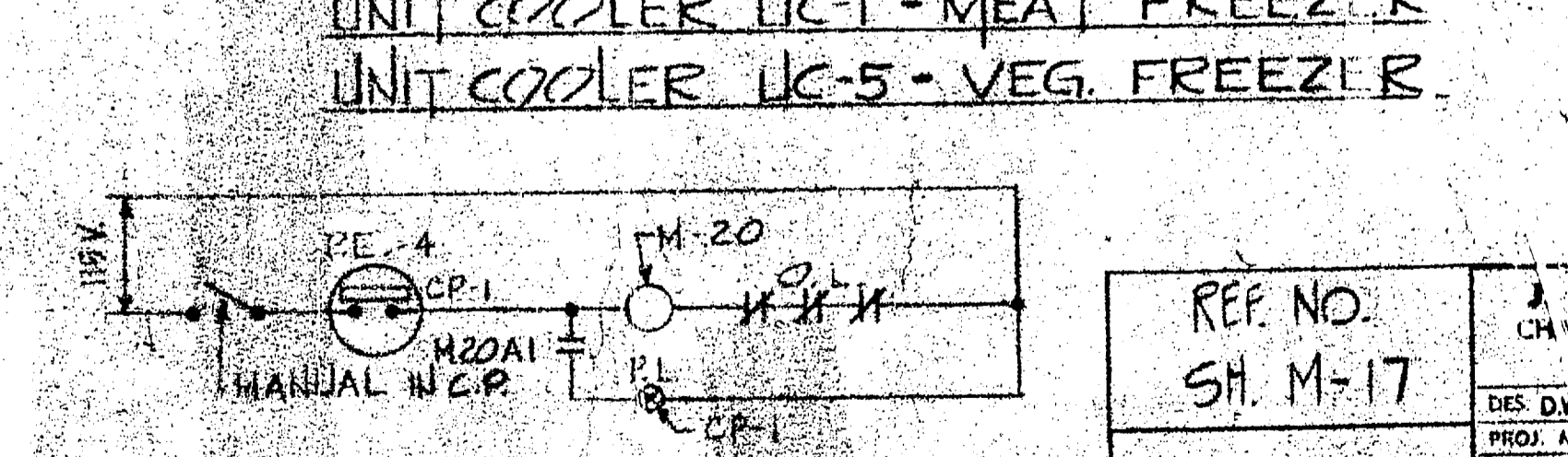
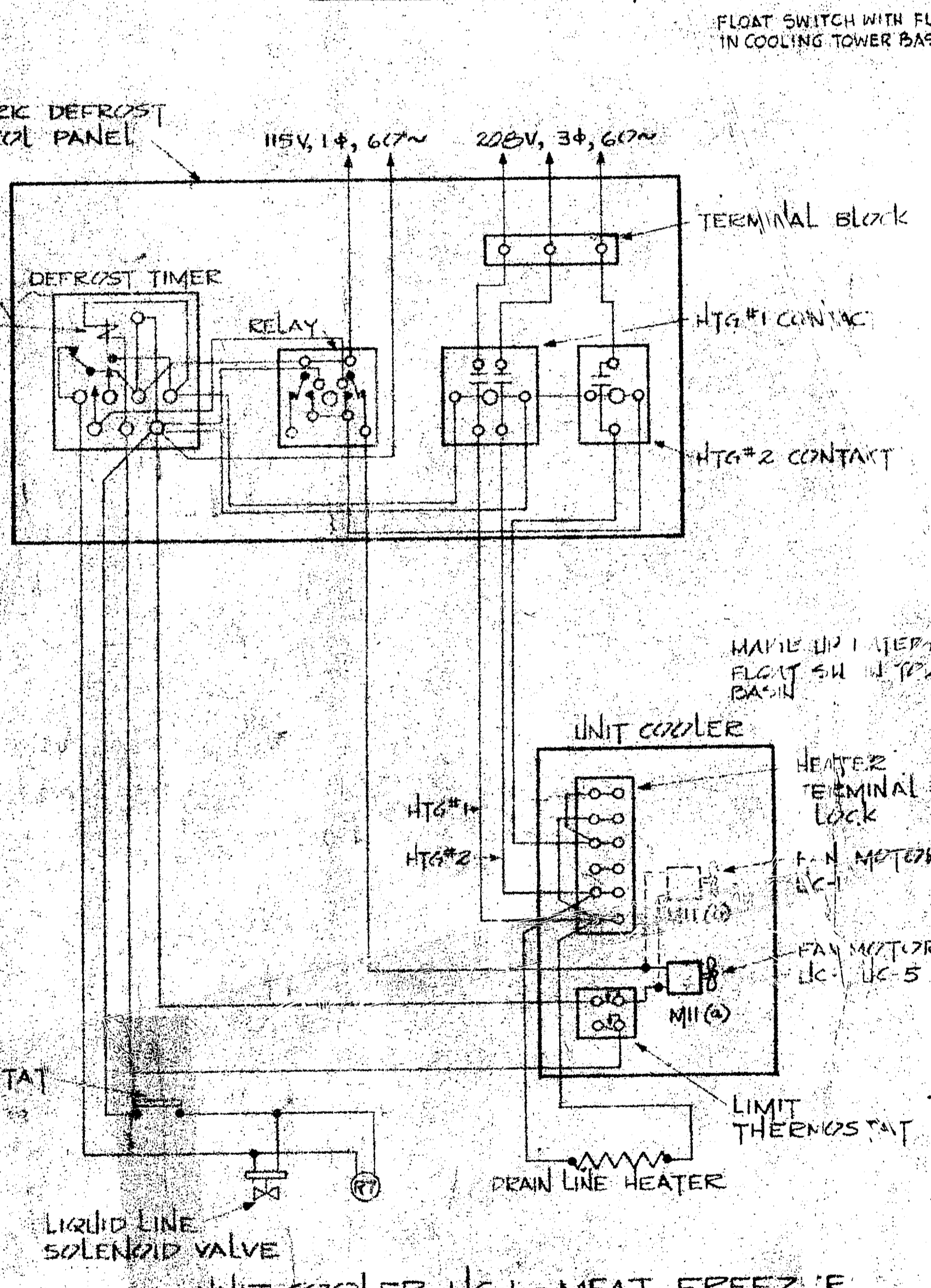
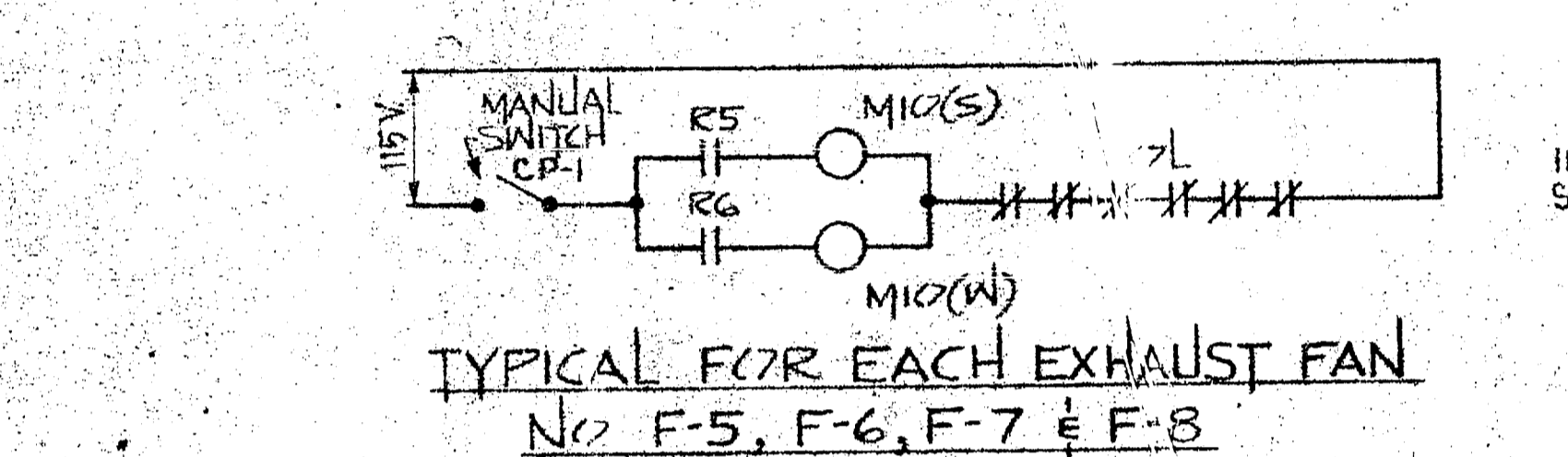
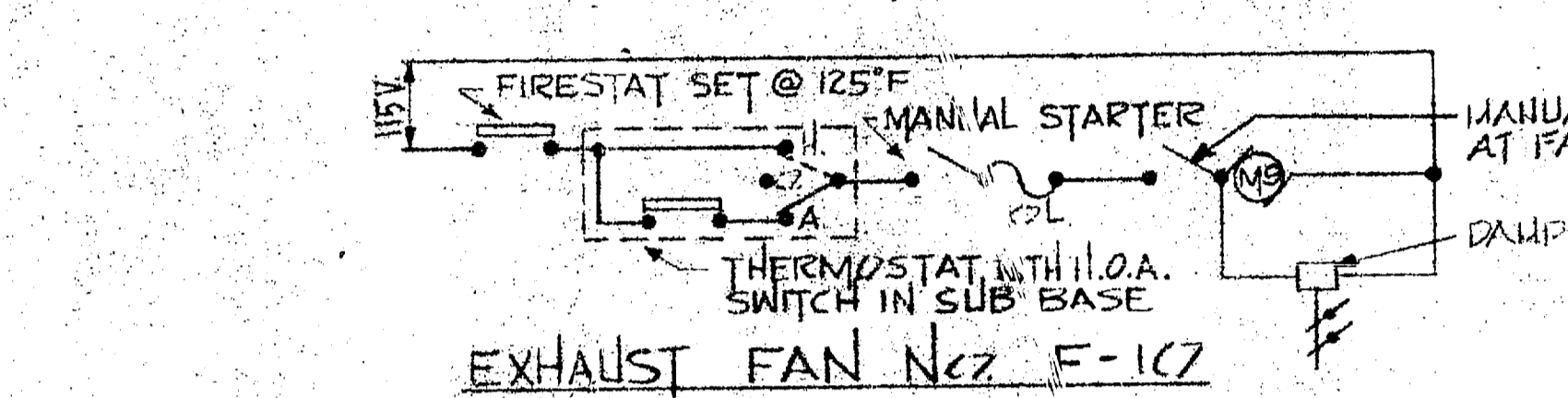
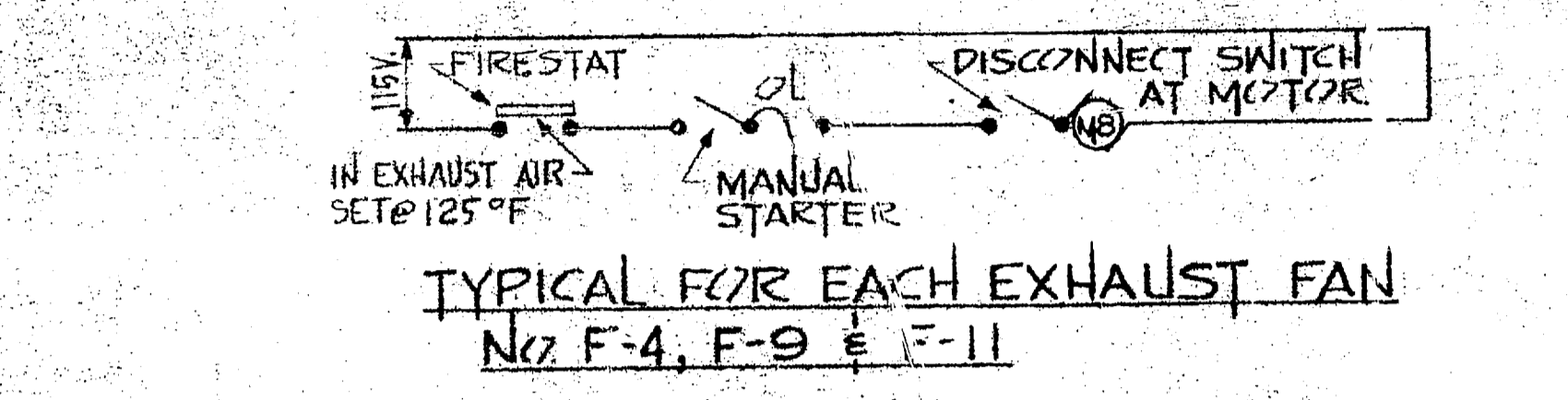
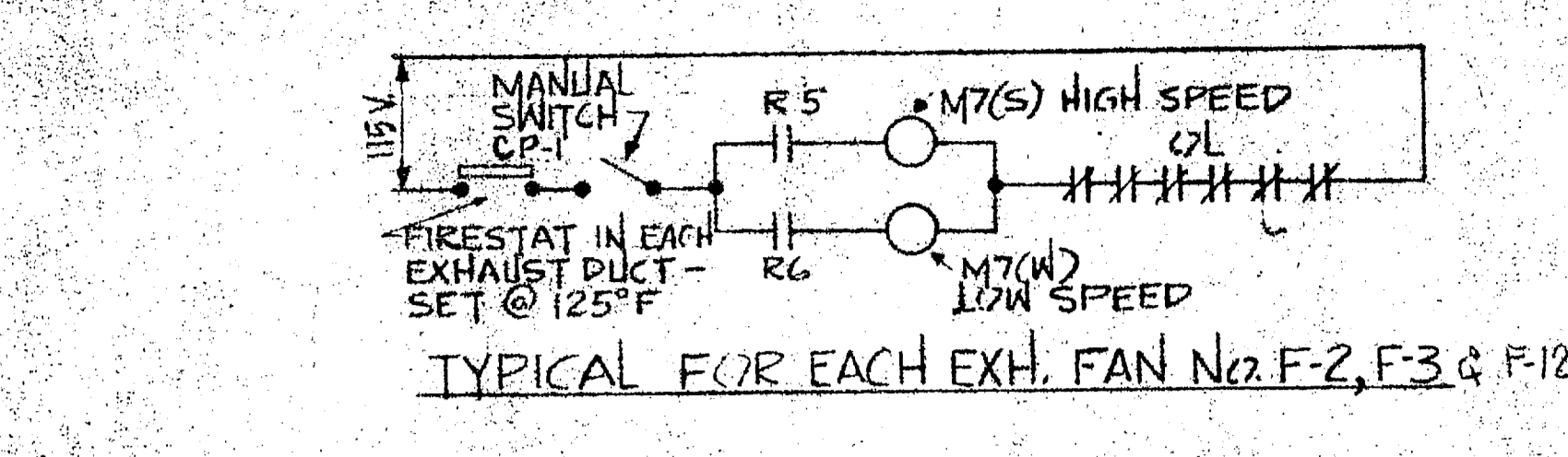
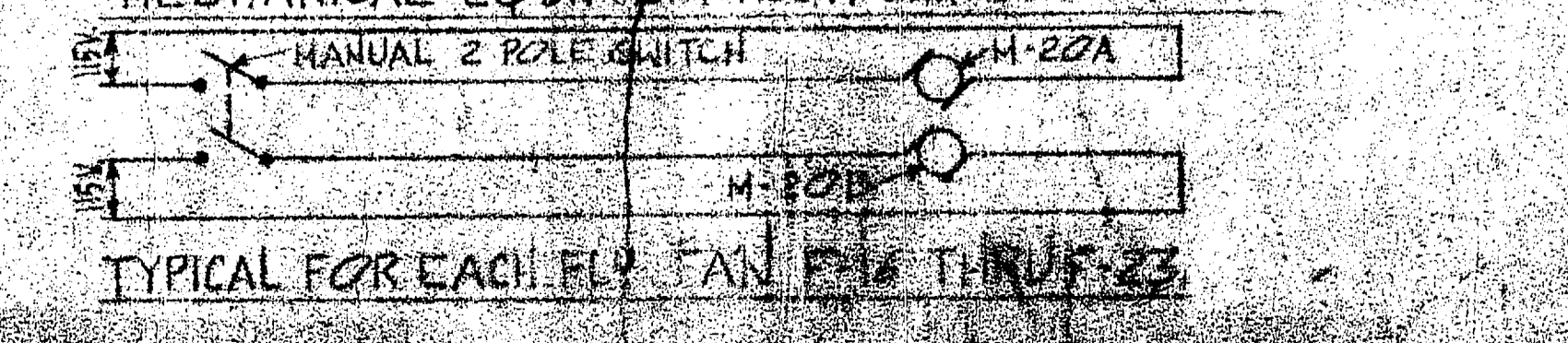
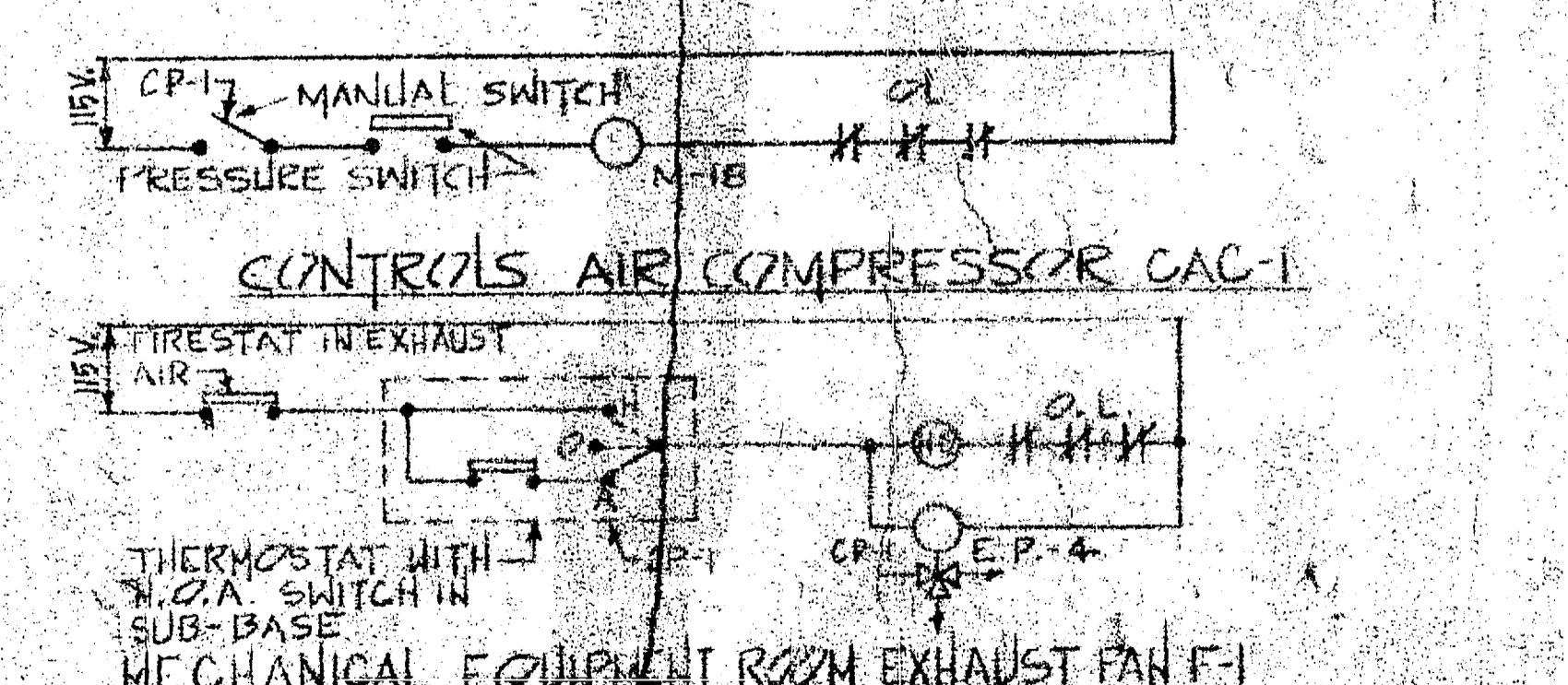
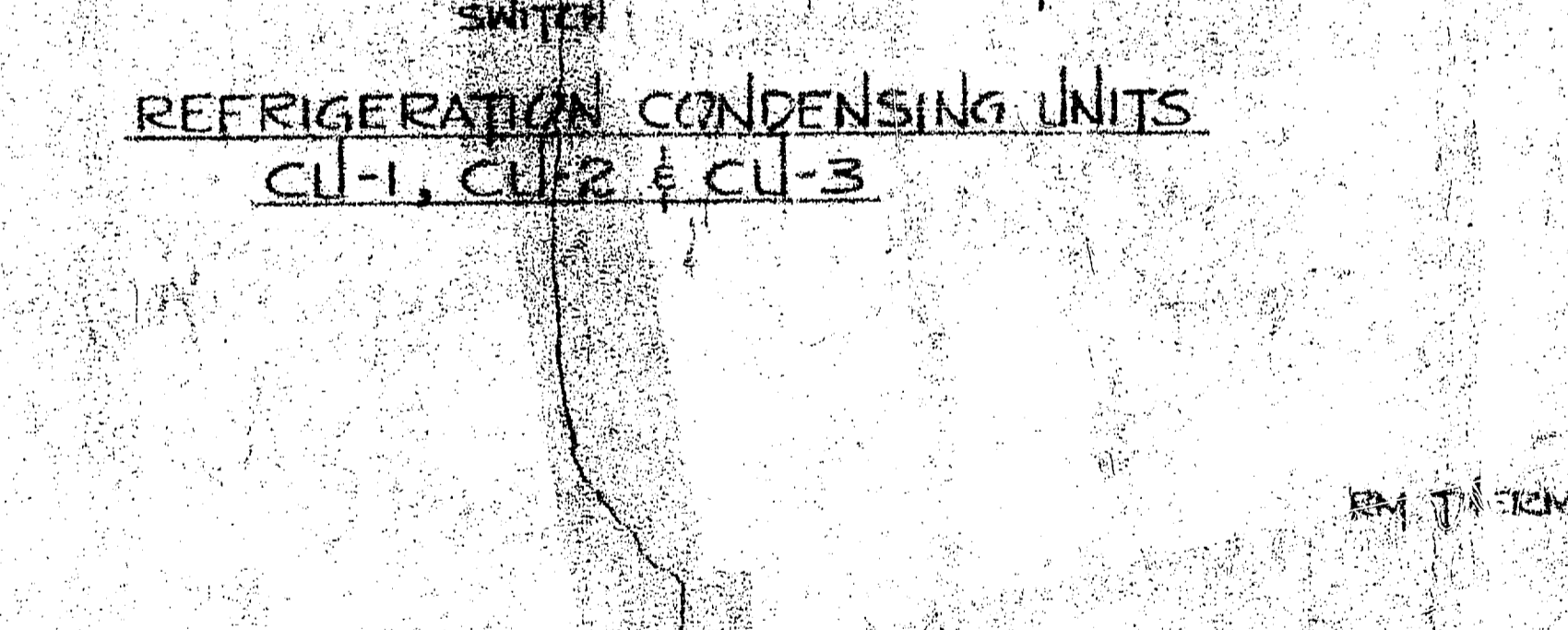
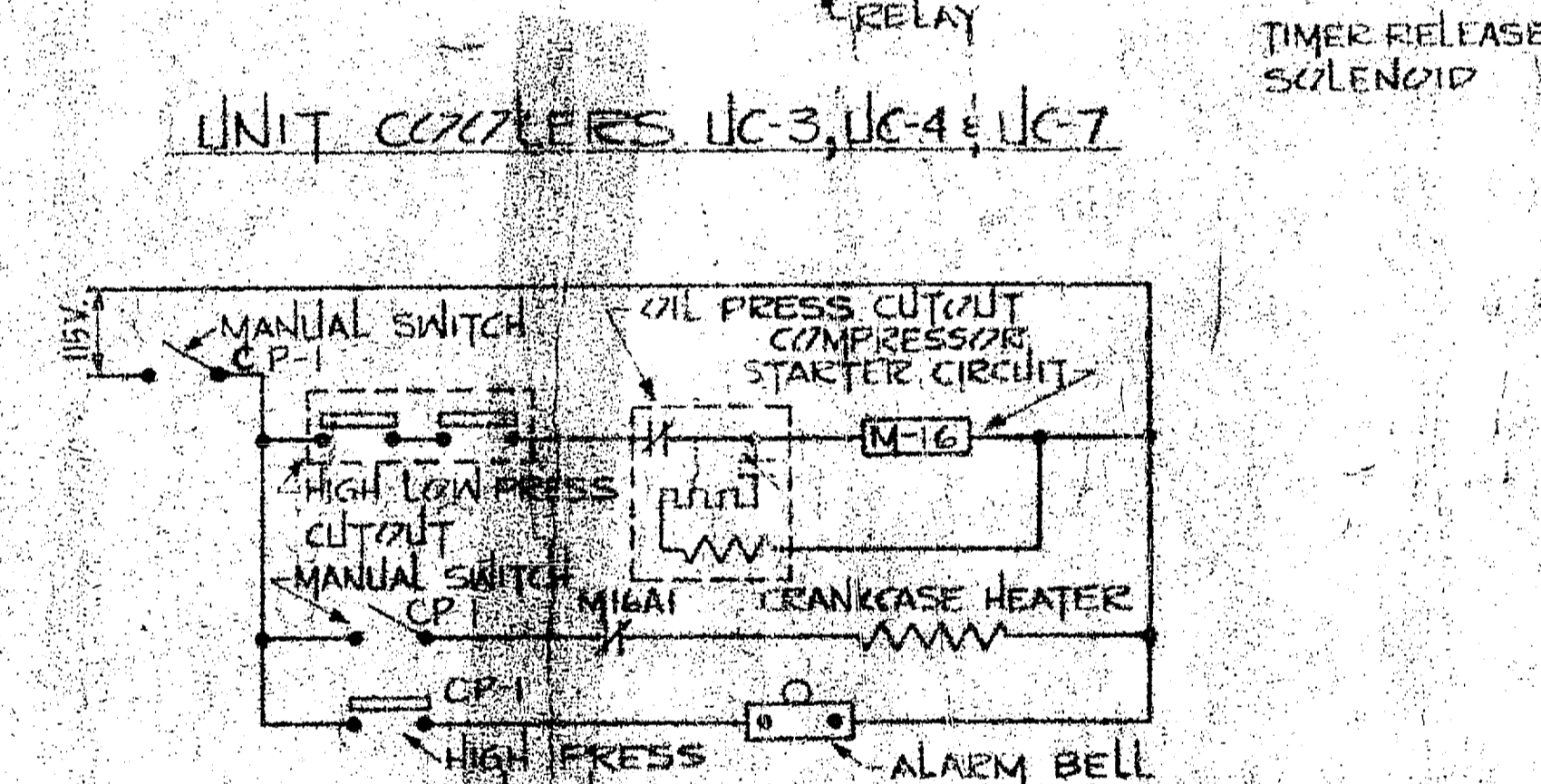
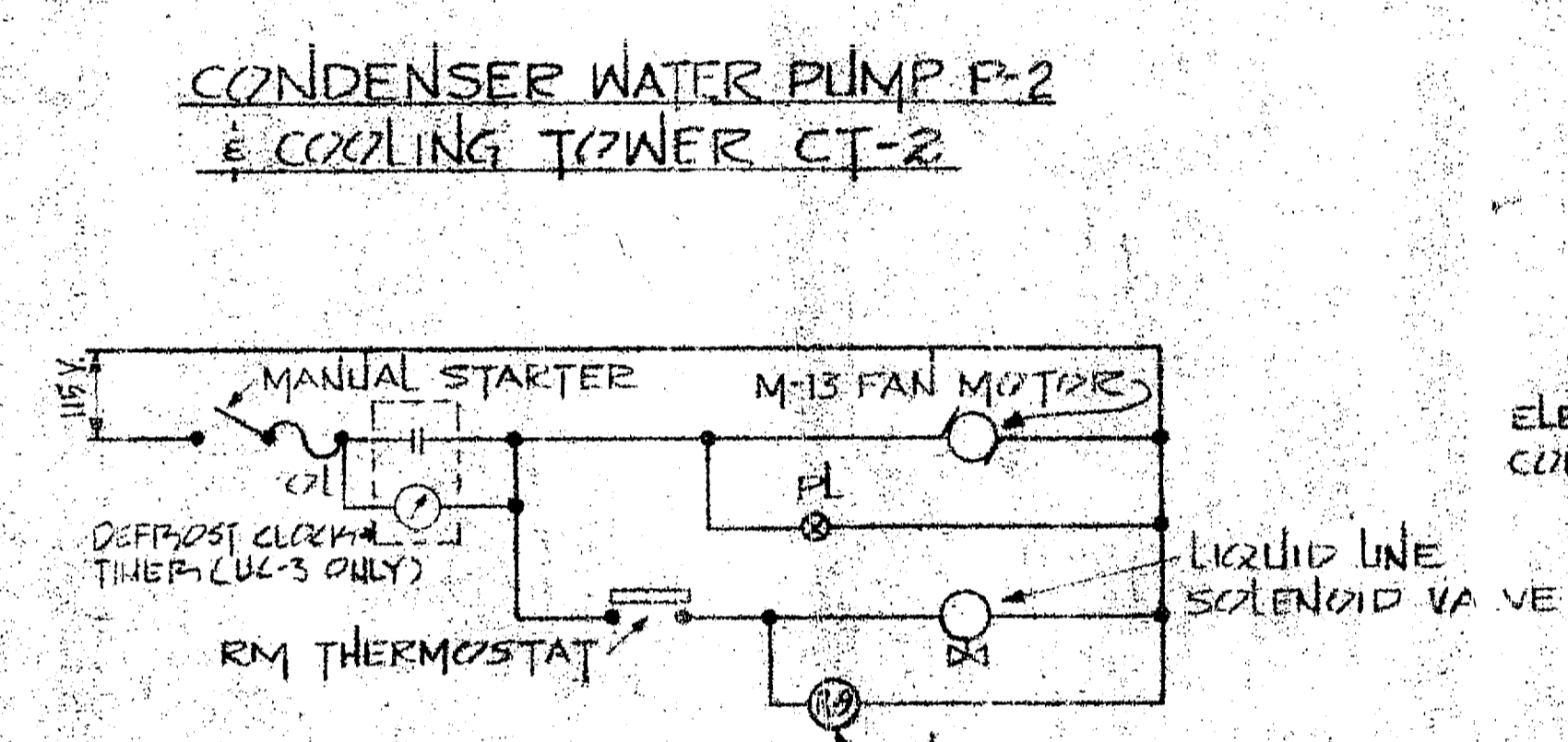
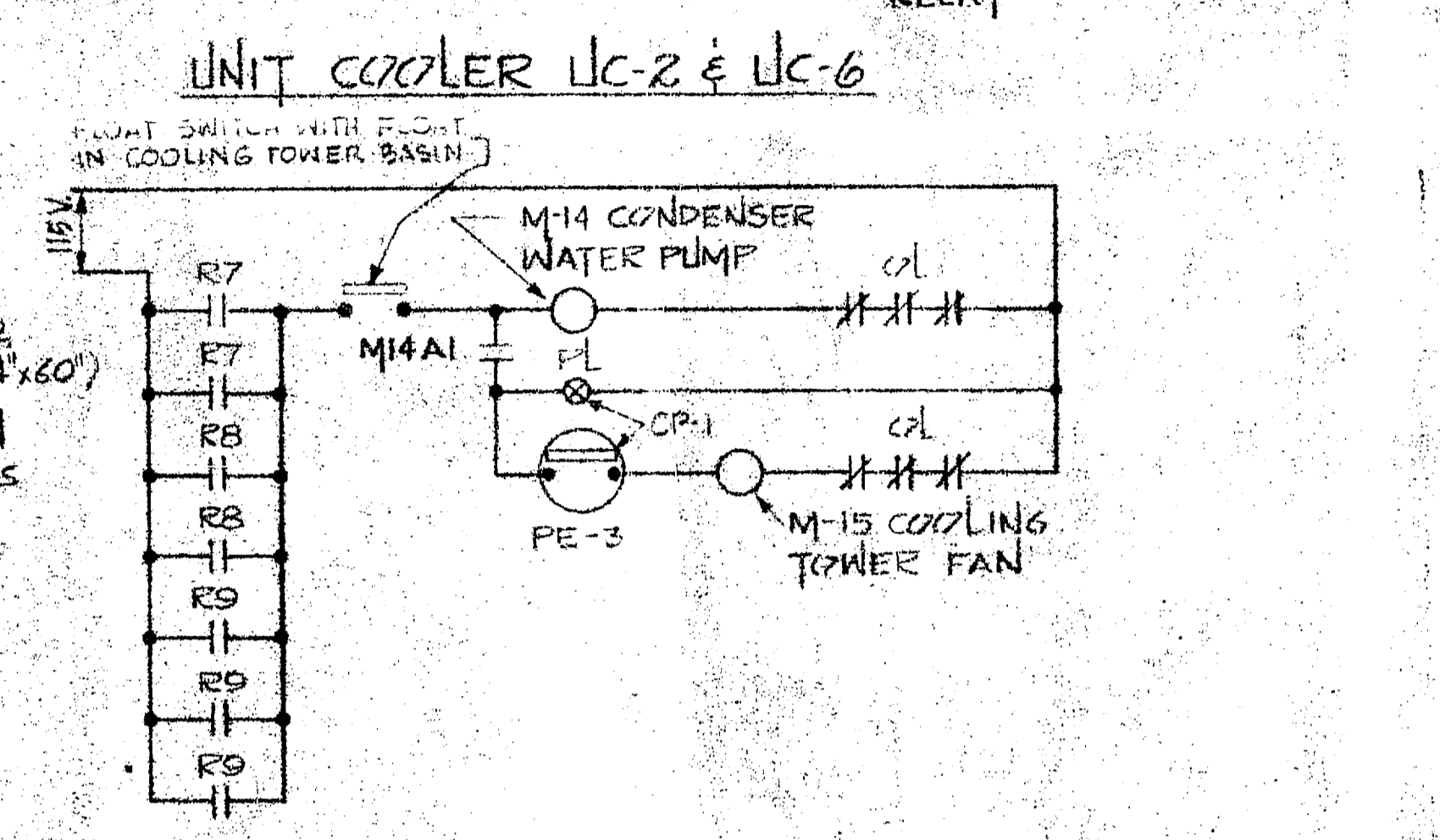
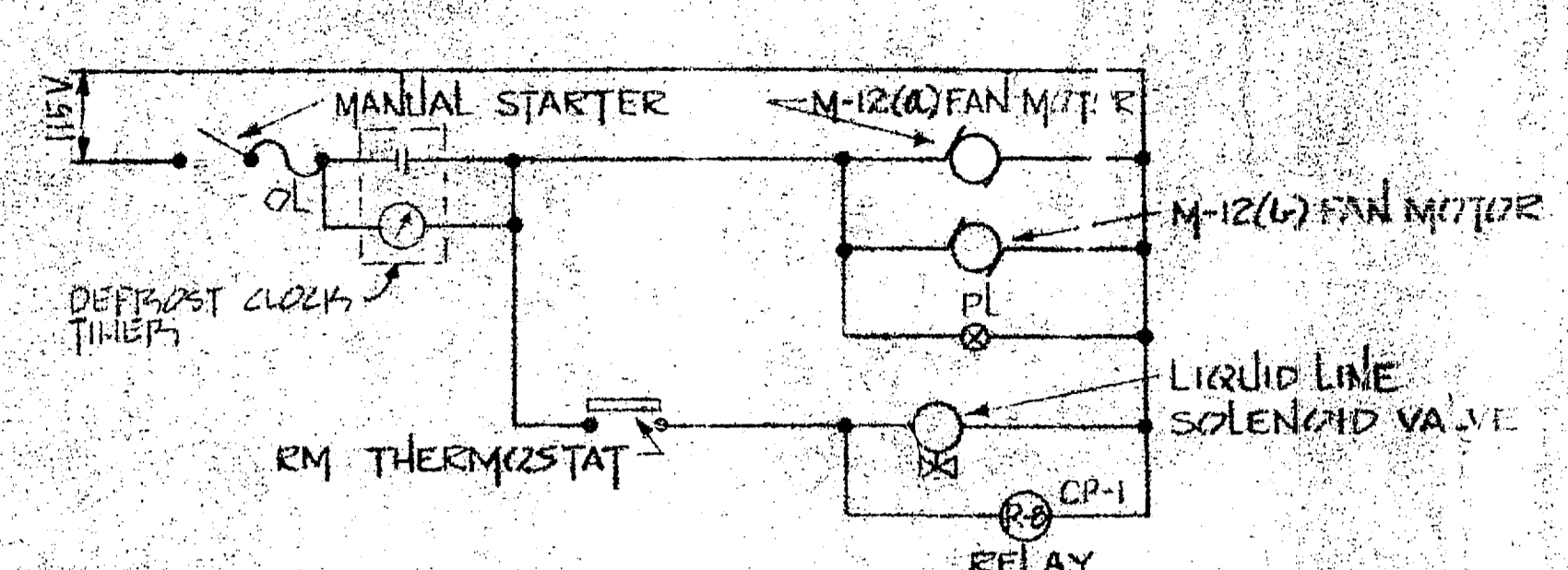




REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED

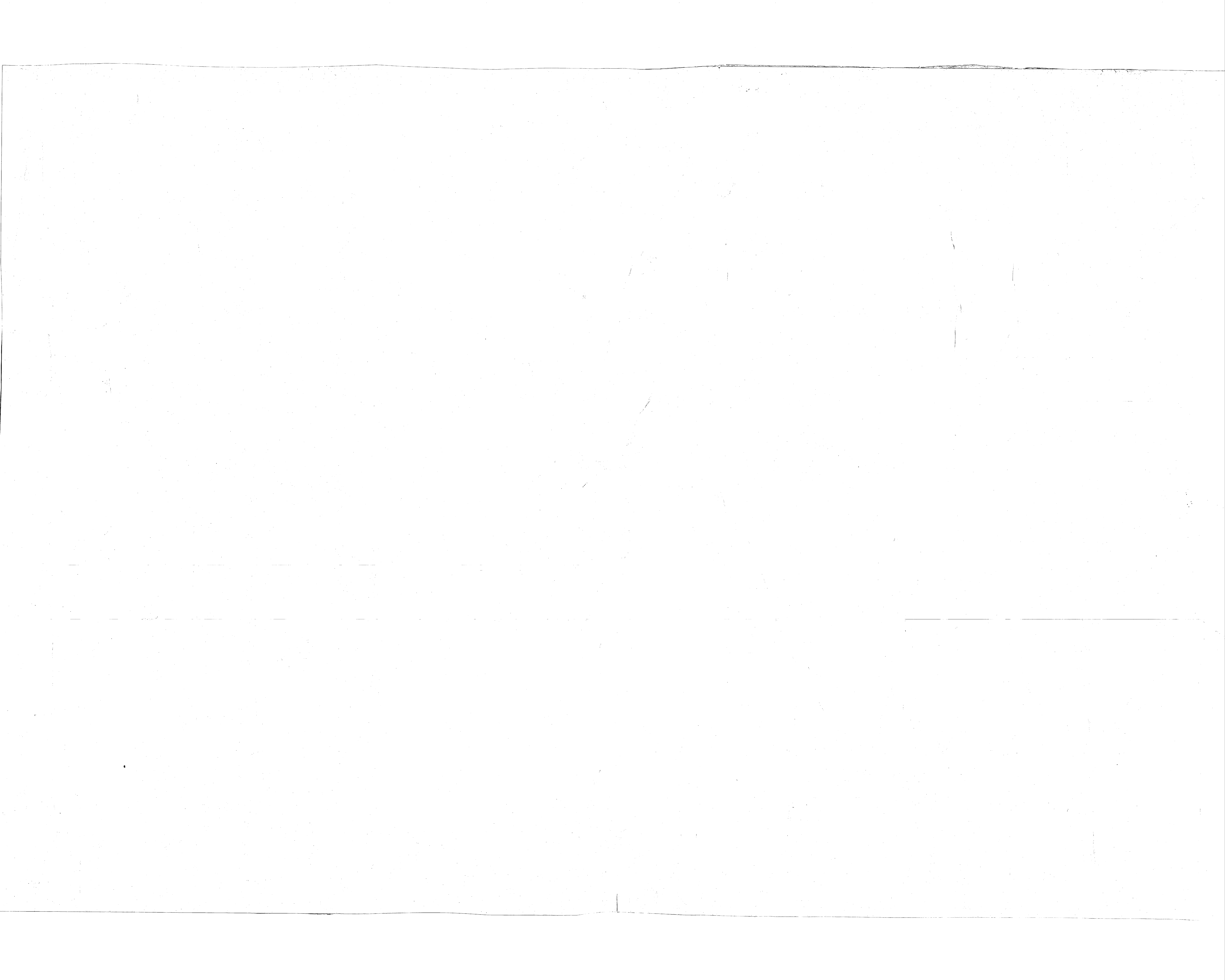


**PNEUMATIC CONTROL DIAGRAM**  
 NOTE: MAX. PRESS. DROP THRU CONTROL VALVES NOT TO EXCEED 3 PSI



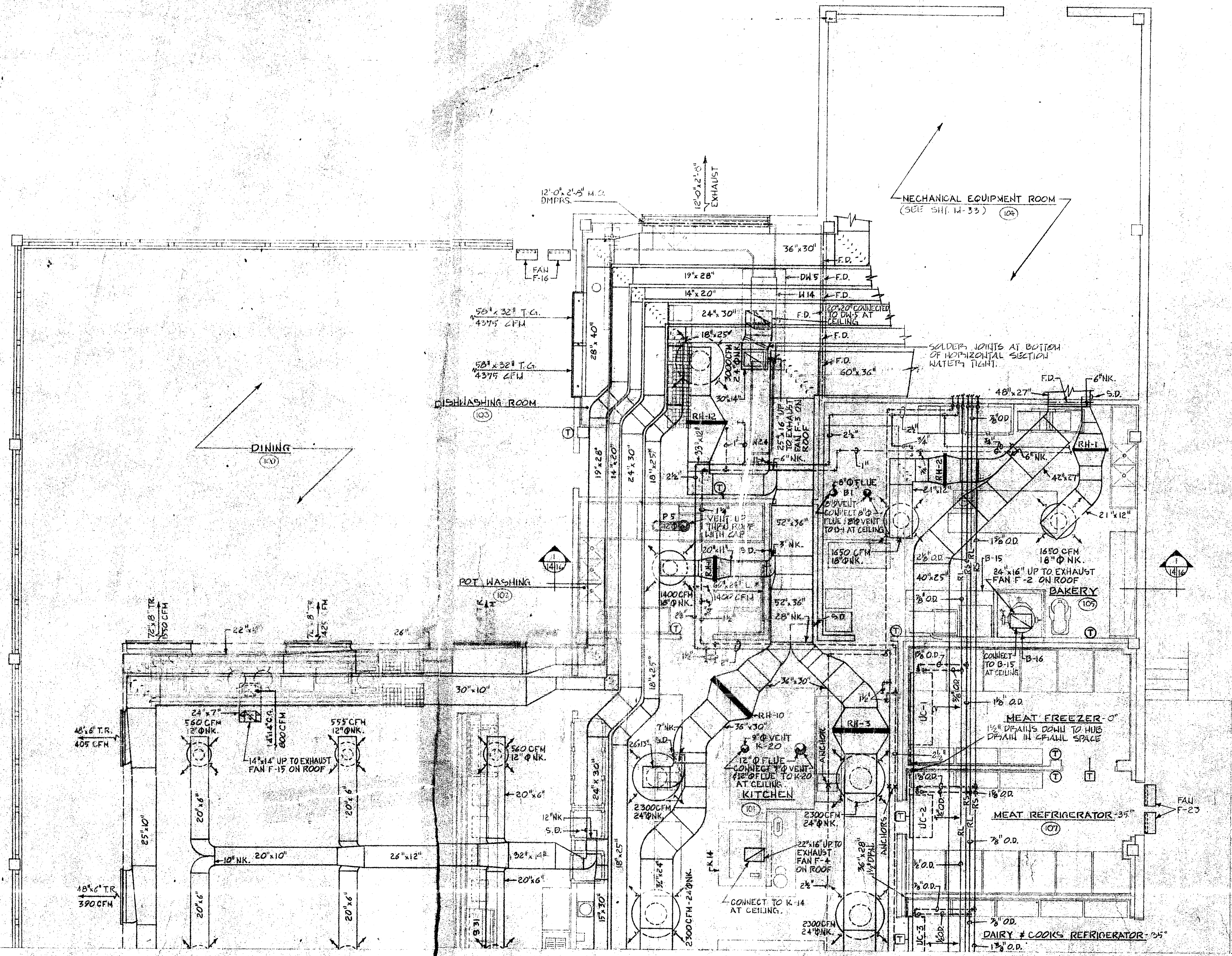
REF. NO. SH. M-17	J. N. FRANK ASSOCIATES CHARLOTTE, NORTH CAROLINA ARCHITECTS-ENGINEERS	DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS ATLANTIC DIVISION NORFOLK 11, VIRGINIA
DES. BY: J. N. FRANK PROJ. ENG. D. M. MACKINTOSH SUBMITTED: 12/22/66 DATE: 1/11/67 DRAWN BY: J. N. FRANK	MR. A.W.R. AIA, PE DATE: 1/11/67 CHECKED BY: J. N. FRANK DATE: 1/11/67	CAMP LEJEUNE MARINE CORPS BASE NORTH CAROLINA FORCE TROOPS COMPLEX SUBSISTENCE BUILDING CONTROL DIAGRAMS
SCALE: AS SHOWN	SHEET NO. 10 OF 10	1107050





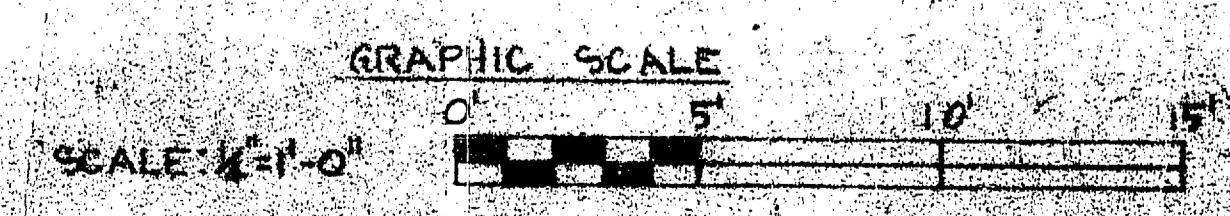


REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



SUBSISTENCE BUILDING - PARTIAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

\* SEE SHIT 24 FOR LOUVER L.



REF. NO. SH. M-14	J. N. PEASE ASSOCIATES CHARLOTTE, NORTH CAROLINA ARCHITECTS-ENGINEERS	DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS NORFOLK 11, VIRGINIA
	DES. DIR. DR. R. O. CHS. A. W. R. PROJ. MGR. D. M. MACKINTOSH, AIA, PE SUBMITTED BY: [Signature] DATE: [Blank] DRAWN BY: [Signature] DATE: JUN 66 CHECKED BY: [Signature] DATE: [Blank] IN CHARGE: [Signature] DATE: [Blank]	CAMP LEJEUNE NORTH CAROLINA
FORCE TROOPS COMPLEX SUBSISTENCE BUILDING PARTIAL FLOOR PLAN NO. 1		MARINE CORPS BASE NORTH CAROLINA
SIZE: CODE IDENT. NO. F 80091		V. & D. DRAWING NO. 1107047
SHEET NO. 107 OF 166 73047		SHEET 107 OF 166 73047

NOTE:  
ALL RETURN AIR DUCTS ARE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. ADD 2" EACH WAY FOR SHEET METAL SIZES.

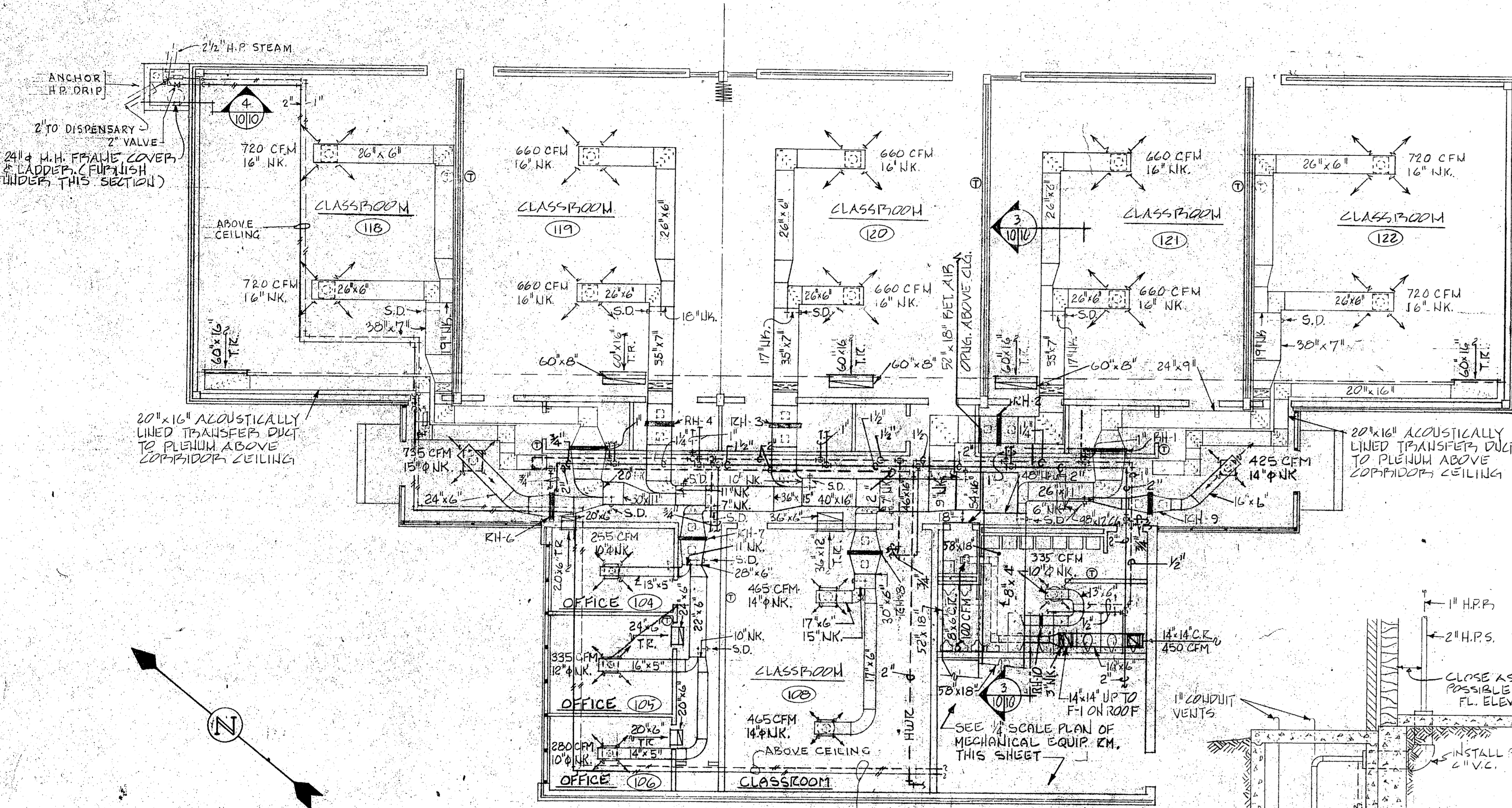
MATCH LINE - SEE SHIT NO. M-15



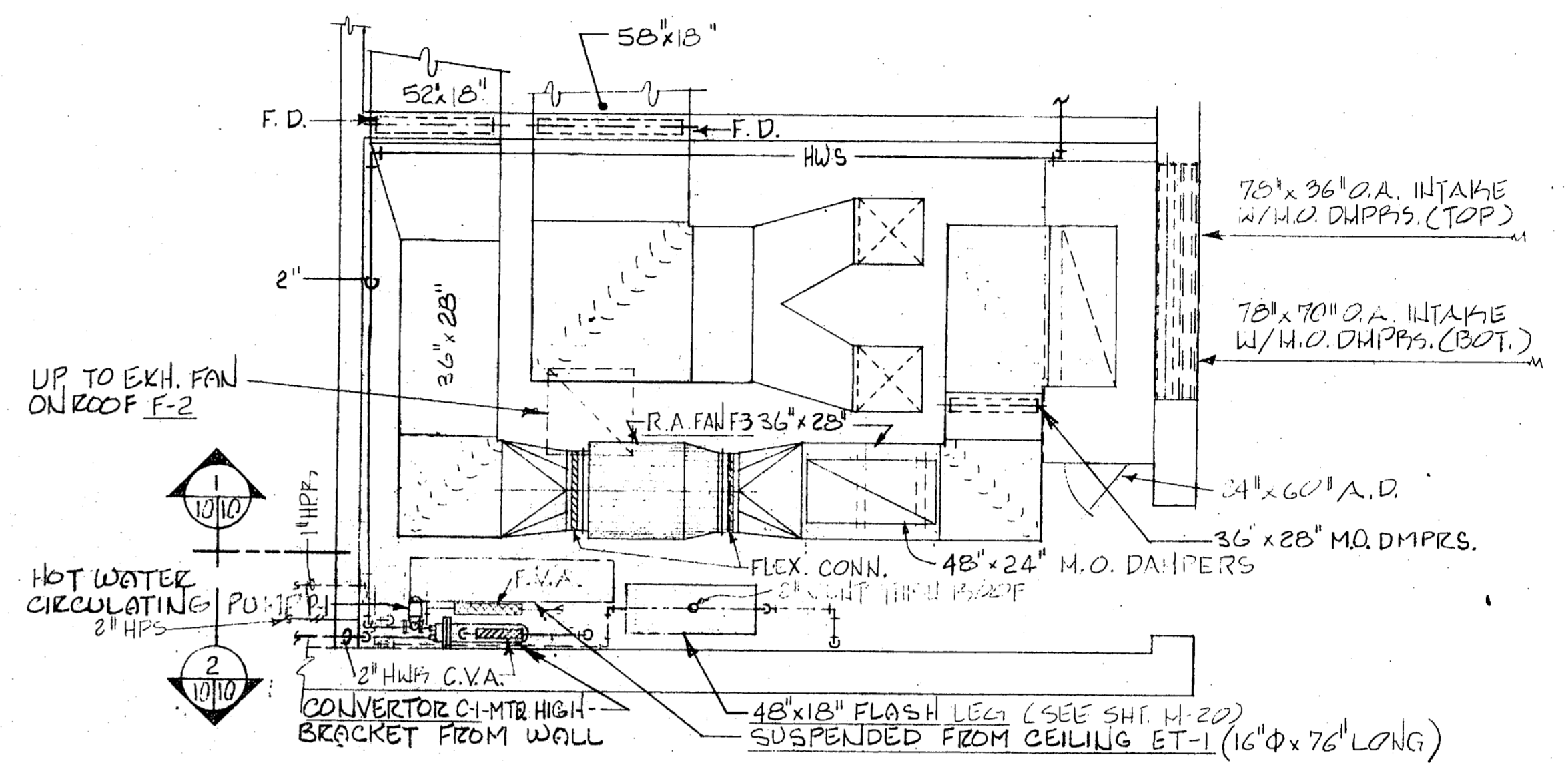




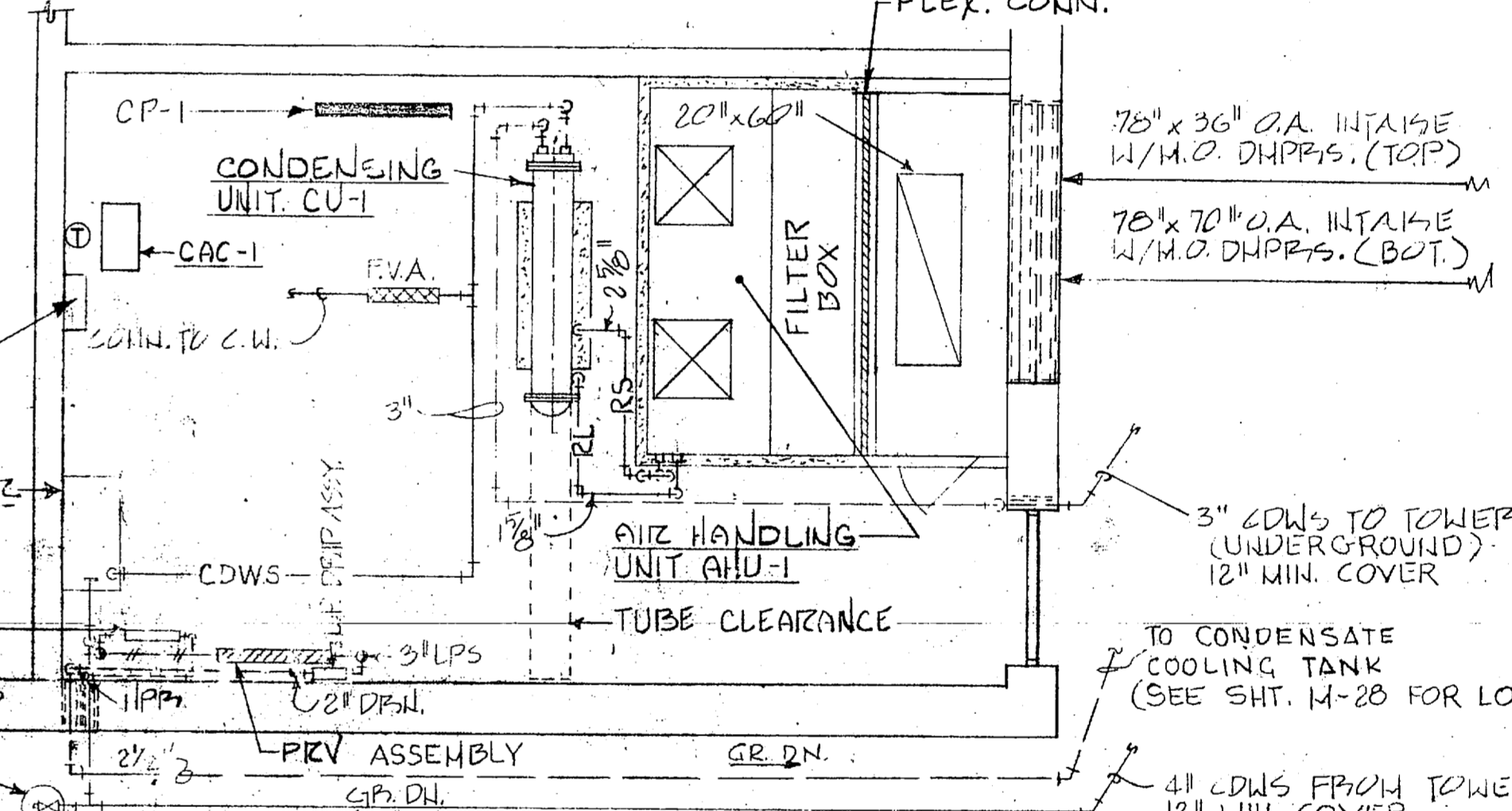
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



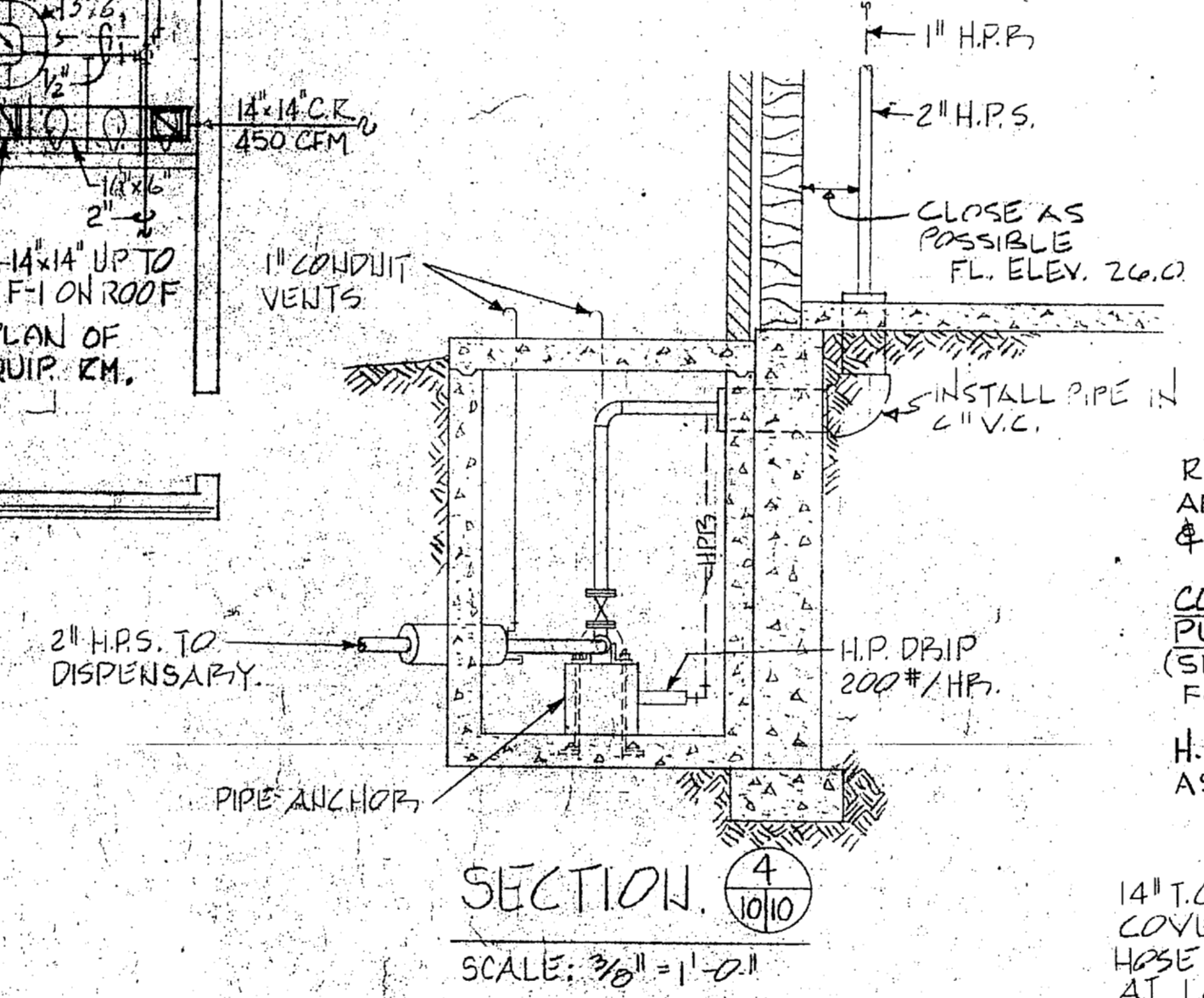
**INSTRUCTION BUILDING**  
SCALE: 1/8" = 1'-0"



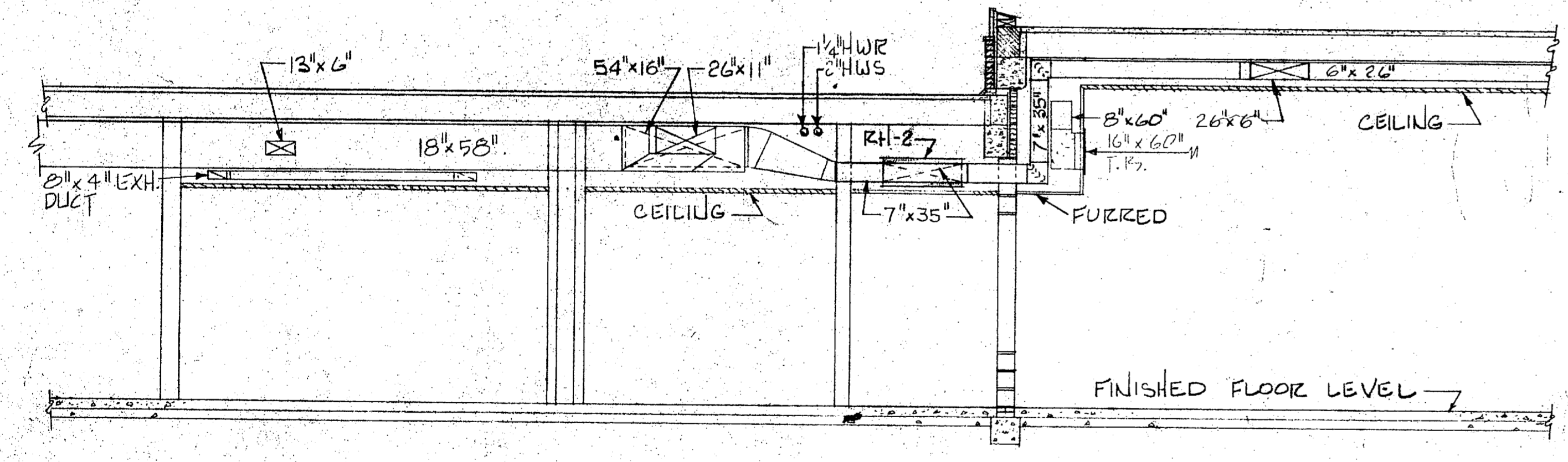
**MECHANICAL EQUIPMENT ROOM - UPPER PLAN**  
SCALE: 1/4" = 1'-0"



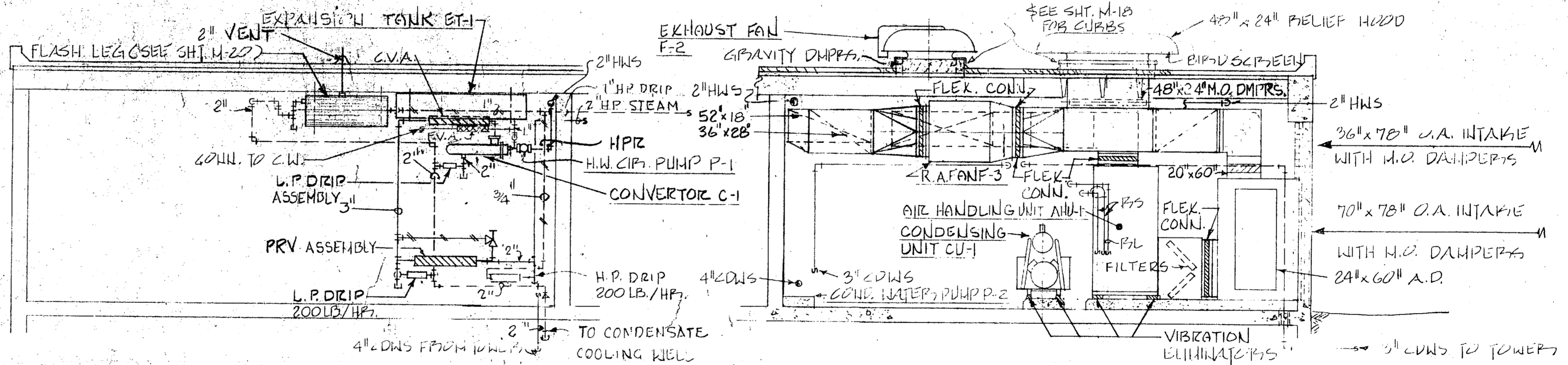
**MECHANICAL EQUIPMENT ROOM - LOWER PLAN**  
SCALE: 1/4" = 1'-0"



**SECTION 4**  
SCALE: 3/8" = 1'-0"



**SECTION 3**  
SCALE: 1/4" = 1'-0"



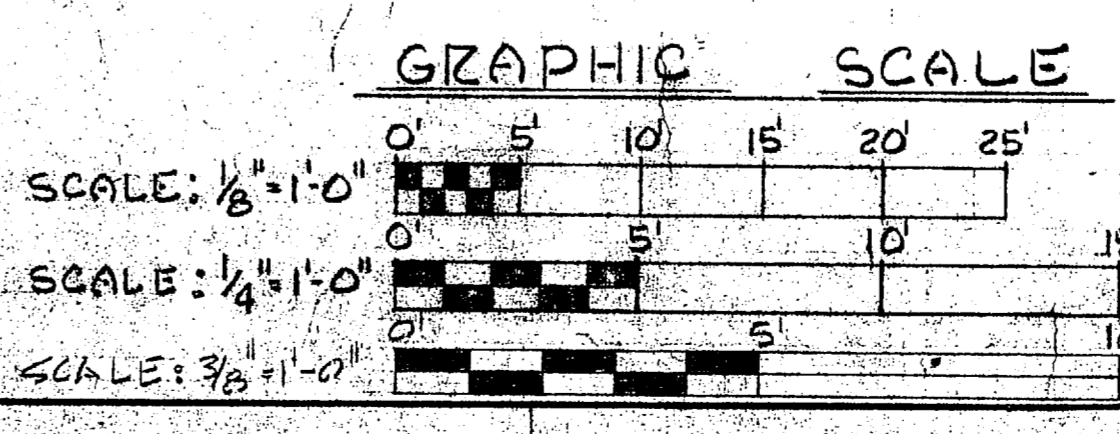
**SECTION 1**  
SCALE: 1/4" = 1'-0"

NOTE:  
ALL RETURN AIR DUCTS ARE INTERNALLY INSULATED WITH 1" INSULATION. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS, ADD 2" EACH WAY FOR SHEET METAL SIZES.

**# FC 312**

NOTE: SEE SH. M-10, 19 & 20 FOR DETAILS & SYMBOLS

REF. NO. SH. M-10	J. N. PEASE ASSOCIATES CHARLOTTE, NORTH CAROLINA ARCHITECTS-ENGINEERS	DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS ATLANTIC DIVISION NORFOLK 11, VIRGINIA
DES. D.W.R. DR. D.T.O. CHK. A.W.R.	PROJ. MGR. D.M. MACKINTOSH, AIA, PE	CAMP LEJEUNE NORTH CAROLINA
SUBMITTED BY: <i>M. Mackintosh</i>	DATE: JUN 66	PRINCIPAL
FIRM MEMBER: <i>M. Mackintosh</i>	RVD. <i>L. J. Pease</i>	ENGINEER
DIR. LANTDOCKS: <i>L. J. Pease</i>	INS. DIR. <i>L. J. Pease</i>	OFFICER IN CHARGE
DATE: JUN 66	SCALE: AS NOTED	SPEC 69815/69 BY 69815
SCALE: AS NOTED	SHEET 103 OF 166	73043





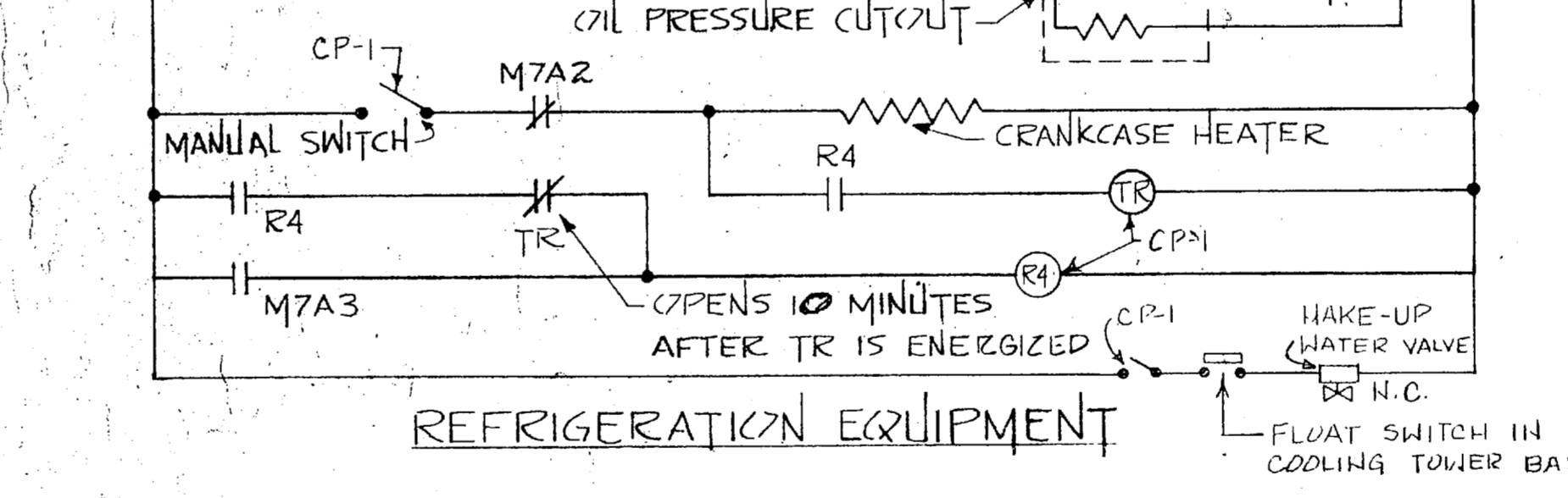
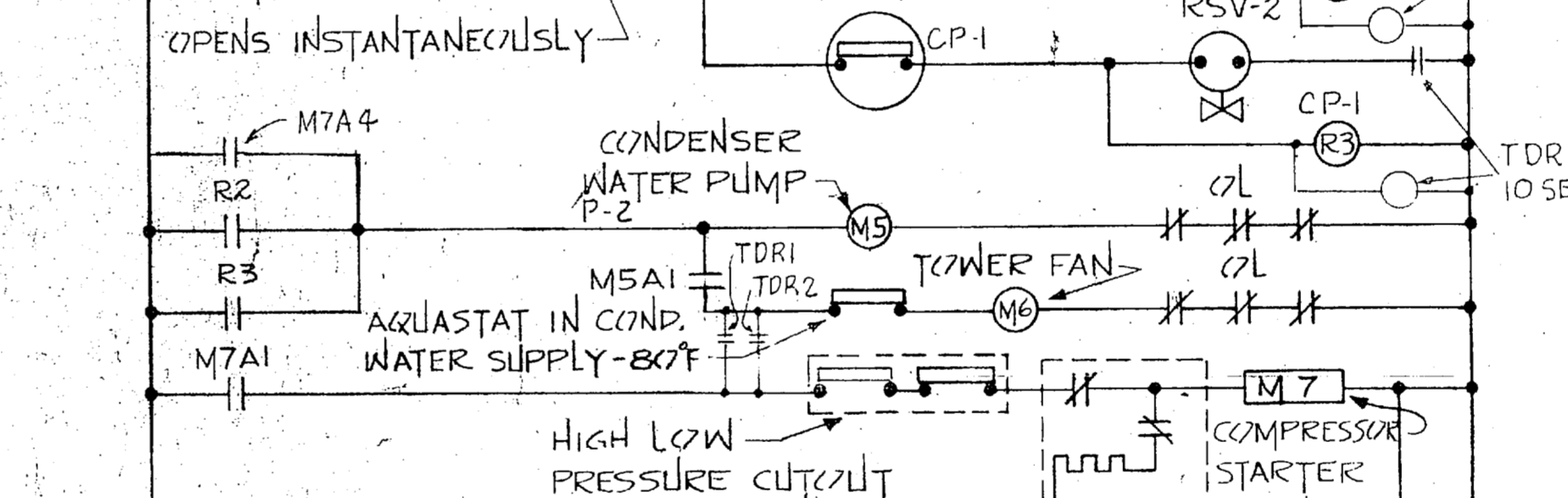
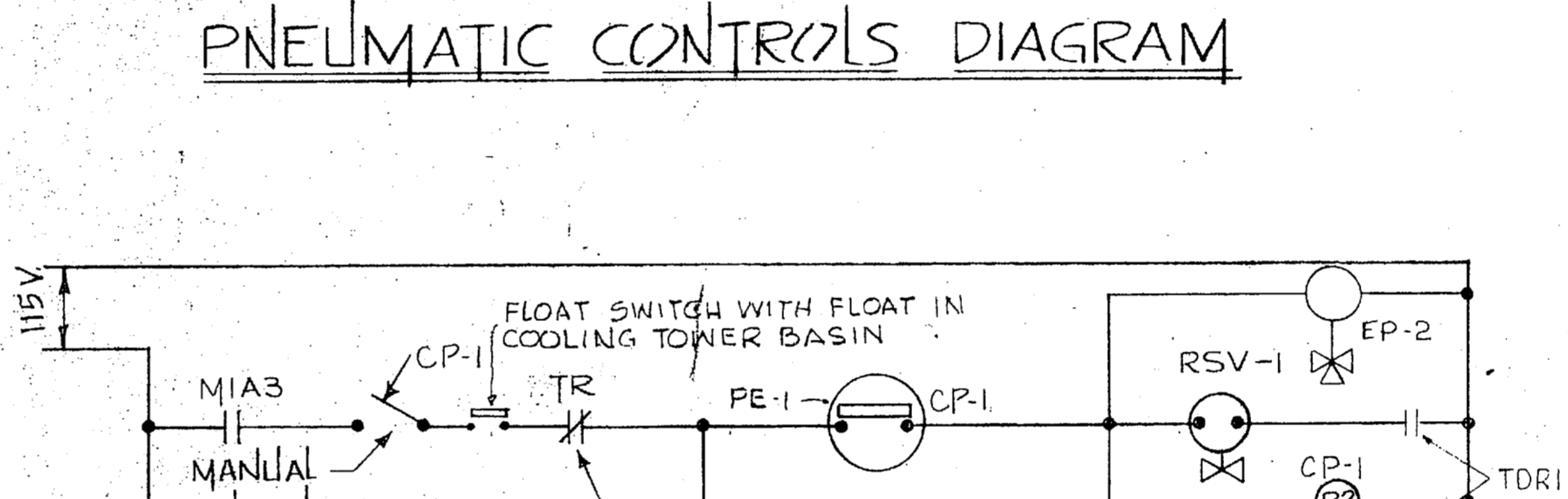
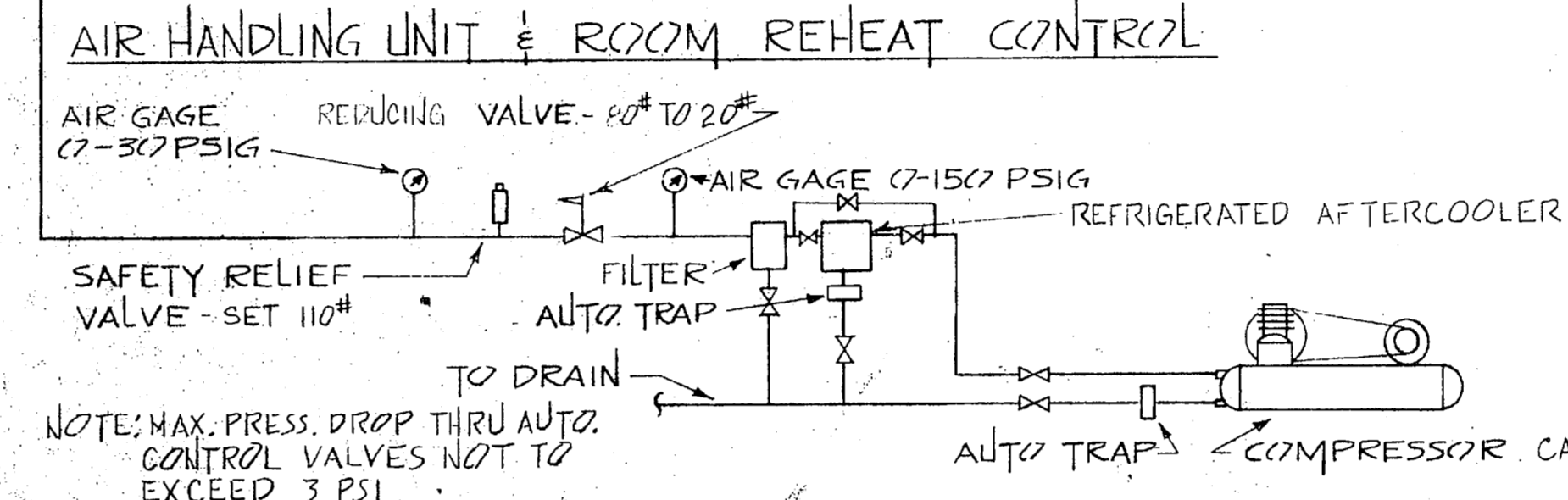
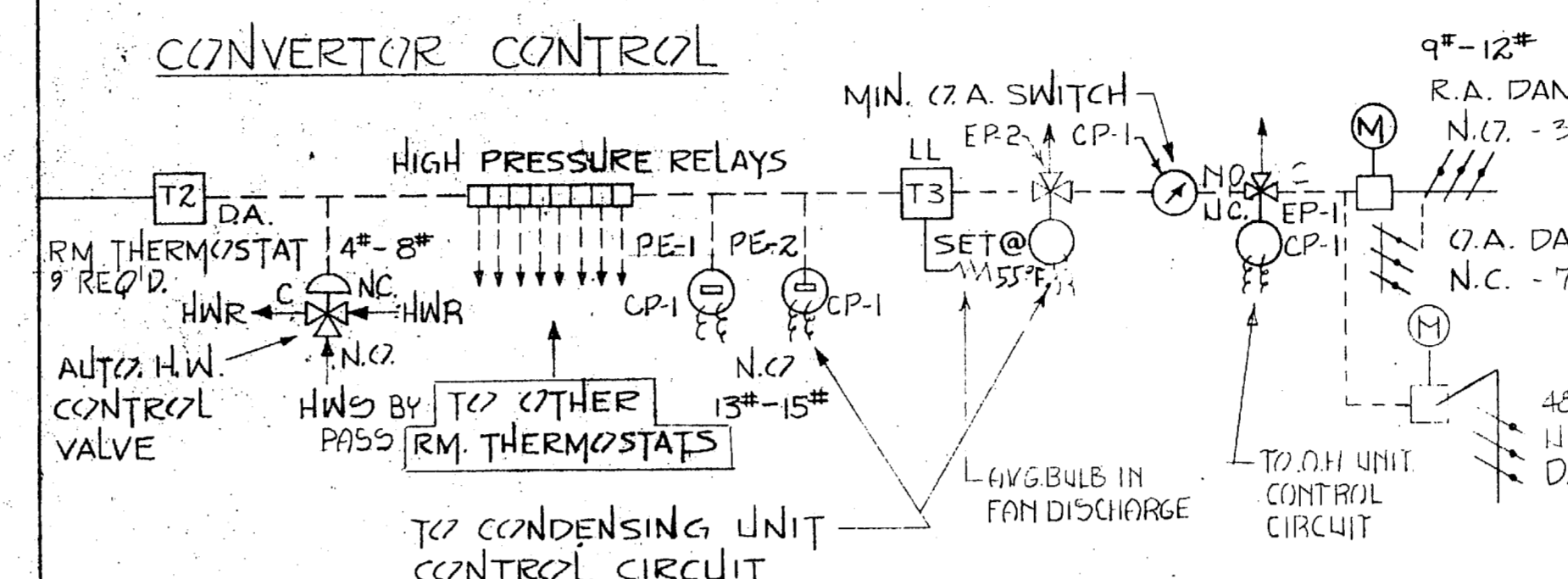
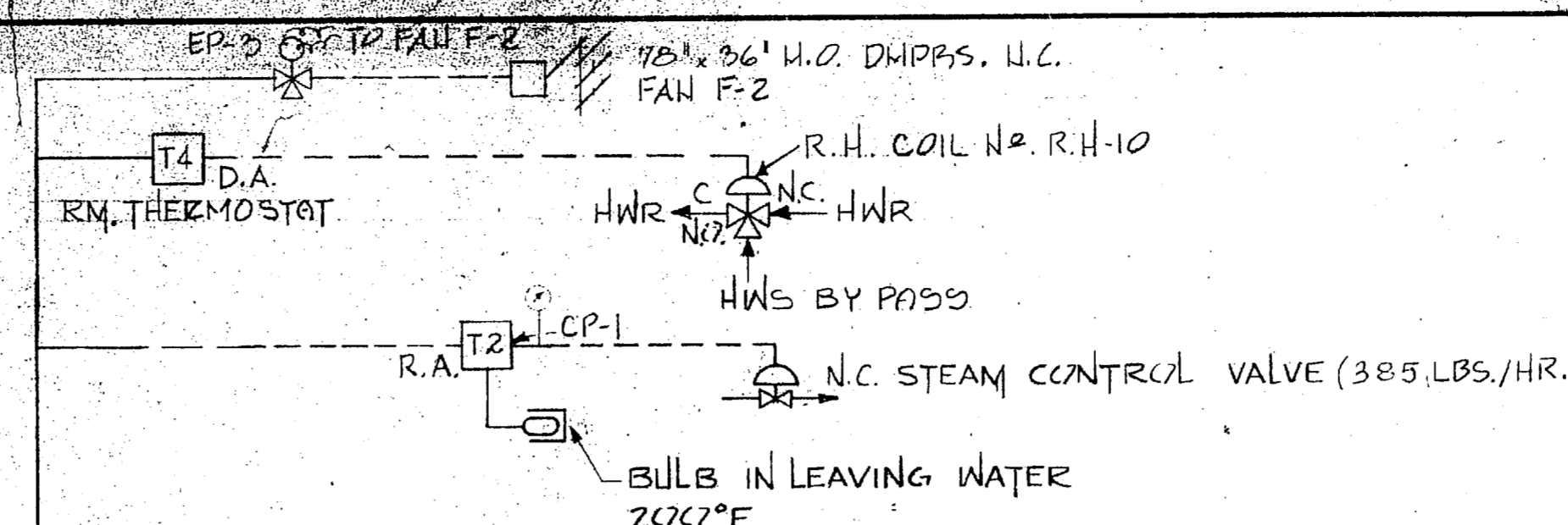
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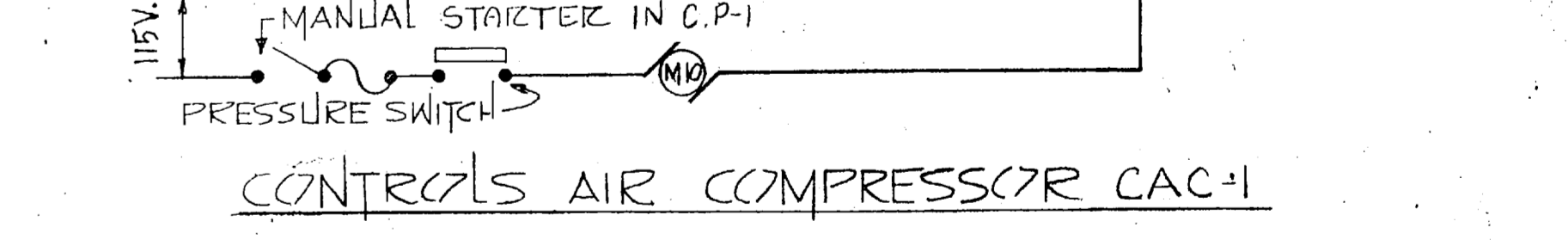
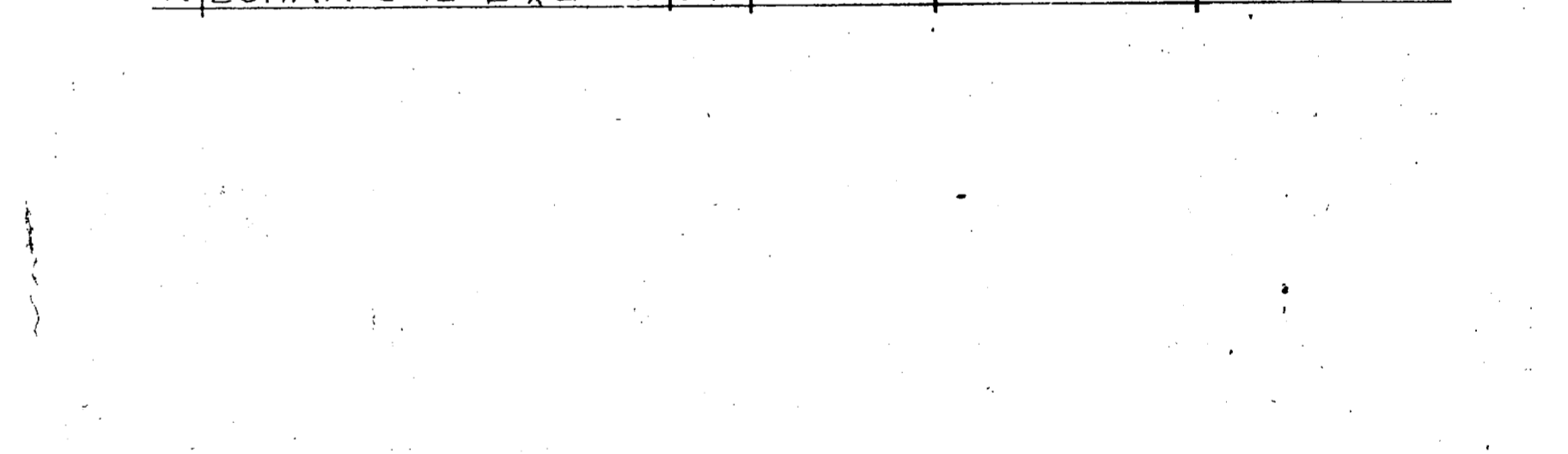
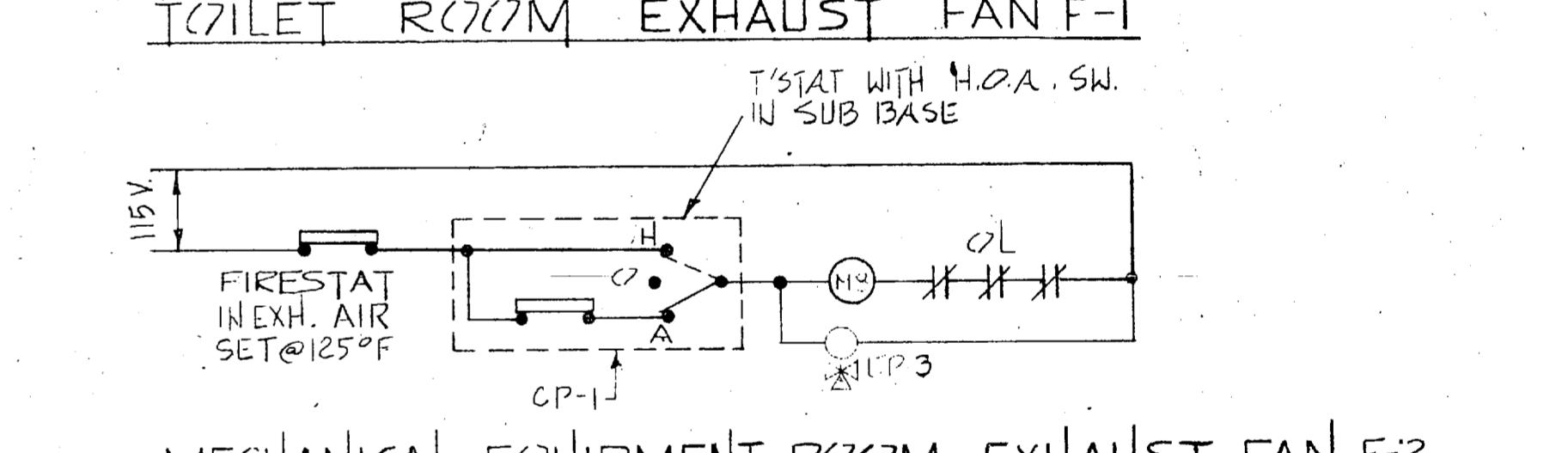
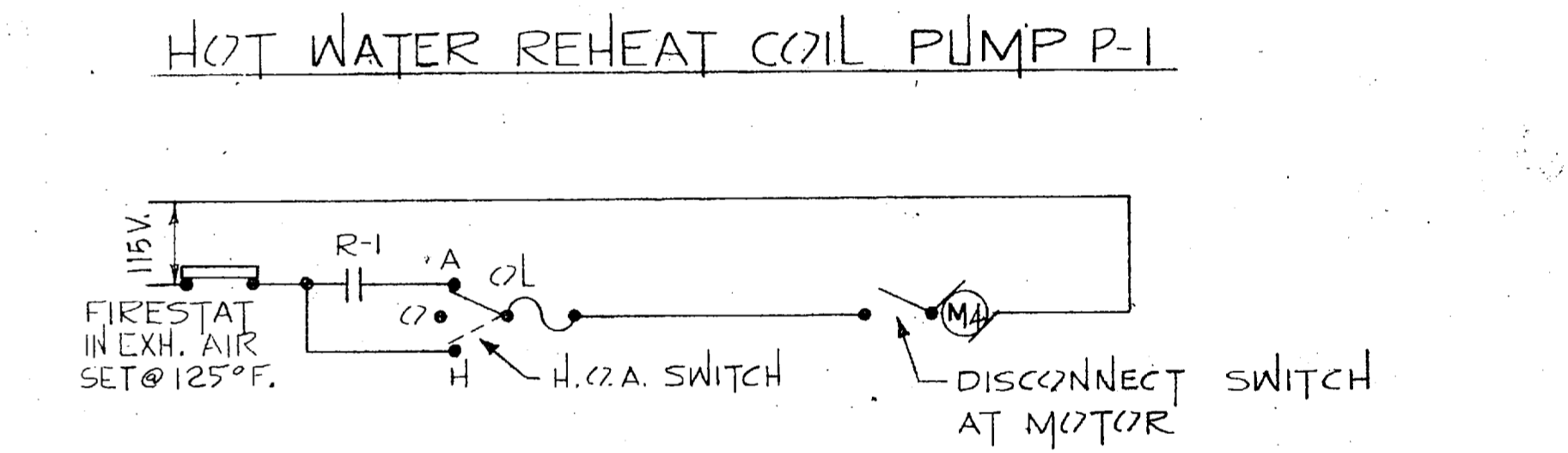
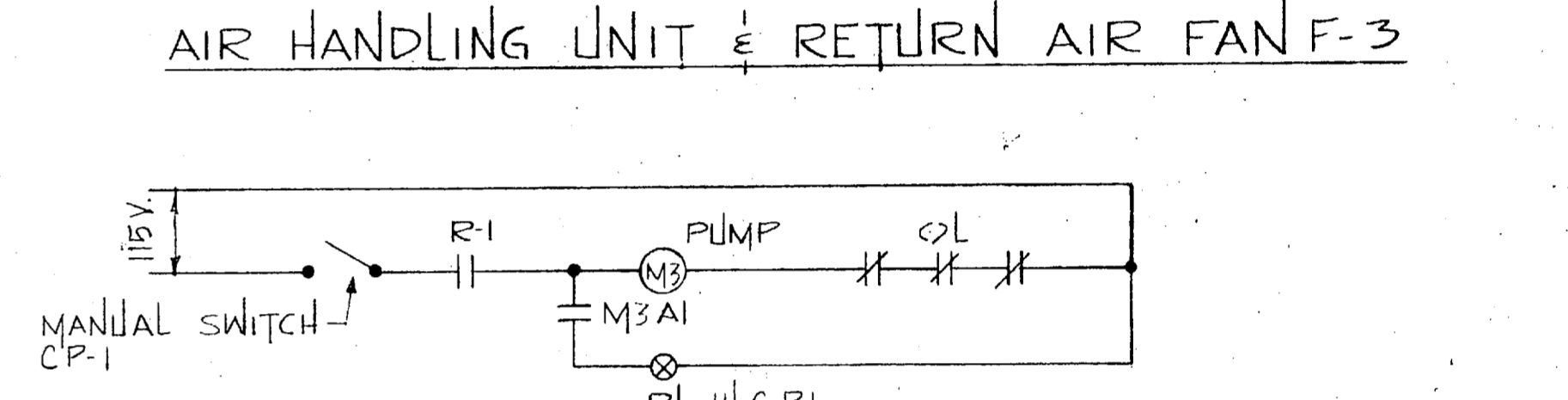
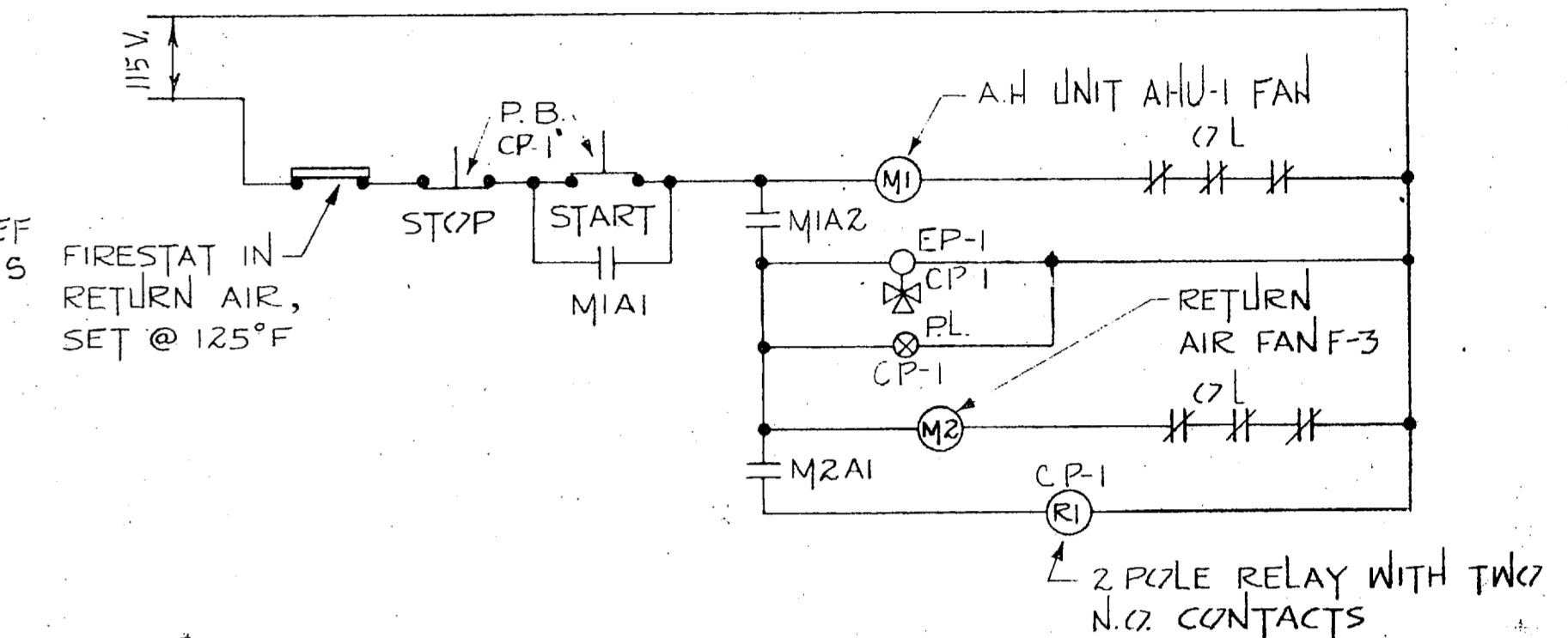
# EQUIPMENT SCHEDULE

AIR HANDLING UNIT																
UNIT NO.	SERVICE	LOCATION	CFM	STATIC PRESS.	OUTLET VEL. FPM	COOLING COIL (460,000 BTU/HR. TOTAL - 276,000 BTU/HR. SENS.)	ENT. AIR D.B. W.B.	LEA. AIR D.B. W.B.	SUCTION TEMP.	FACE VELOCITY	FACE AREA	MOTOR H.P.	ELECTRICAL DATA	REMARKS:		
UNIT NO.	SERVICE	LOCATION	CFM	STATIC PRESS.	OUTLET VEL. FPM	ENT. AIR D.B. W.B.	LEA. AIR D.B. W.B.	SUCTION TEMP.	FACE VELOCITY	FACE AREA	MOTOR H.P.	ELECTRICAL DATA	REMARKS:			
AH-1	INSTRUCTION BLDG MECH. EQUIP. RM.	10, 15 B	2 1/2	3.95	31.7 FPM	55.0 F	55.0 F	45.0 F	4.95 FPM	0.62	20.4 SF	7 1/2	208 3 CMFD	(AQR) (DKHN) (M) *		
CONDENSING UNIT (SCALE FACTOR 0.0005)																
UNIT NO.	LOCATION	COMPRESSOR	CONDENSER	ELECTRICAL DATA	REMARKS:											
CU-1	MECH. EQUIP. RM.	38.3 F-22	43.0 F 105.0 F 1750	126 580 85.0 F 95.0 F 115 10 FT 208 3	SEE SPEC. (LH) (MH) (F) (CAP. PRODUCTION STEPS - 75%, 90%, 25%)											
FANS																
UNIT NO.	SERVICE	LOCATION	TYPE	CFM	STATIC PRESS.	DRIVE	WHEEL DIA.	RPM	MOTOR H.P.	ELECTRICAL DATA	REMARKS:					
F-1	TOILET	ROOF	CENT. ROOF EXH.	550	3/8"	DIRECT	12"	1140	1/8	120 1 SM	WITH AUTOMATIC (GRAVITY) DAMPERS (EHN) (F) *					
F-2	MECH. EQUIP. RM.	ROOF	CENT. ROOF EXH.	4530	3/8"	V-BELT	27"	565	3/4	208 3 CMFD	WITH AUTOMATIC (GRAVITY) DAMPERS (AQR) (FHN) (M) *					
F-3	RETURN AIR	MECH. EQUIP. RM.	CENT. IN-LINE	7155	1/2"	V-BELT	27"	870	1 1/2	208 3 CMFD	(AQR) (FN) (M) *					
HEATING COILS - HOT WATER																
UNIT NO.	SERVICE	LOCATION	CFM	BTUH	ENT. AIR WET B.	LEA. AIR WET B.	F. AREA SQ. FT.	SIZE L x H	ENT. WATER	LEAV. WATER	WATER P.D.	AIR FLEET.	RULOUT SIZES SUPPLY RETURN	G.P.M.	REMARKS:	
ZH-1	CLASSROOM	STORAGE	1440	54,500	55.0 F	90.0 F	2.62	42" x 9"	200.0 F	180.0 F	2.0 FT.	.20"	"	"	5.45	
ZH-2	CLASSROOM	STORAGE	1320	42,800	55.0 F	85.0 F	2.25	36" x 9"	200.0 F	180.0 F	2.0 FT.	.20"	"	"	4.28	
ZH-3	CLASSROOM	STORAGE	1320	42,800	55.0 F	85.0 F	2.25	36" x 9"	200.0 F	180.0 F	2.0 FT.	.20"	"	"	4.28	
ZH-4	CLASSROOM	STORAGE	1320	42,800	55.0 F	85.0 F	2.25	36" x 9"	200.0 F	180.0 F	2.0 FT.	.20"	"	"	4.28	
ZH-5	CLASSROOM	STORAGE	1440	54,500	55.0 F	90.0 F	2.62	42" x 9"	200.0 F	180.0 F	2.0 FT.	.20"	"	"	5.45	
ZH-6	ENTRANCE	CORRIDOR	735	33,200	55.0 F	97.0 F	1.25	30" x 6"	200.0 F	180.0 F	2.0 FT.	.20"	3/4"	3/4"	3.50	
ZH-7	OFFICES	CORRIDOR	870	30,400	55.0 F	90.0 F	1.50	36" x 6"	200.0 F	180.0 F	2.0 FT.	.20"	3/4"	3/4"	3.00	
ZH-8	CLASSROOM	CLASSROOM	730	25,200	55.0 F	80.0 F	1.75	42" x 6"	200.0 F	180.0 F	2.0 FT.	.20"	3/4"	3/4"	2.50	
ZH-9	ENTRANCE	CORRIDOR	425	29,800	55.0 F	120.0 F	0.27	21" x 6"	200.0 F	180.0 F	2.0 FT.	.20"	3/4"	3/4"	3.00	
ZH-10	TOILET	TOILET	335	10,200	55.0 F	85.0 F	0.62	15" x 6"	200.0 F	180.0 F	2.0 FT.	.20"	1/2"	1/2"	1.10	
COOLING TOWER																
UNIT NO.	SERVICE	LOCATION	TONS	GPM	ENT. AIR WET B.	LEA. AIR WET B.	MAX. WATER HEAD	FAN H.P.	ELECTRICAL DATA	REMARKS:						
CT-1	COND. UNIT	OUTSIDE	38.3	115	78.0 F	95.0 F	8 FT.	1 1/2	208 3 CMFD	(AQR) (F) (M) *						
CONVERTOR																
UNIT NO.	SERVICE	LOCATION	CAP. BTUH	STEAM PRESS.	WBS/HR COND.	GPM	ENT. WATER	LEA. WATER	MAX. PRESS. DROP	REMARKS:						
CA-1	REHEAT COILS	MECH. EQUIP. RM.	370,000	2 PSIG	385	37	180.0 F	200.0 F	1.0 FT.	SCALING FACTOR 0.001						
CONTROLS AIR COMPRESSOR WITH REFRIGERATED AFTERCOOLER & DRYER (25 CFM, 1350 BTU/HR. RATE, 1/2 H.P., 115 VOLTS)																
UNIT NO.	SERVICE	LOCATION	TANK SIZE	DISPAC. CFM	COMP. RPM	MOTOR H.P.	ELECTRICAL DATA	REMARKS:								
CC-1	A.C. CONTROLS	MECH. EQUIP. RM.	30 GAL.	2.73	385	1/2	115 1 SM	(MH) (U)								
PUMPS																
UNIT NO.	SERVICE	LOCATION	TYPE	GPM	HEAD FT.	RPM	MOTOR H.P.	ELECTRICAL DATA	REMARKS:							
P-1	REHEAT COILS	MECH. EQUIP. RM.	CENT. PIPELINE	37	40	1750	1	208 3 CMFD	(AQR) (M) (HN) (M) *							
P-2	COND. WATER	MECH. EQUIP. RM.	CENT. END SUCT.	115	50	1750	3	208 3 CMFD	(AQR) (F) (M) *							
P-3	CONDENSATE	MECH. EQUIP. RM.							(FUTURE) *							
EXPANSION TANK																
UNIT NO.	SERVICE	LOCATION	SIZE	CAPACITY	REMARKS:											
ET-1	REHEAT COILS	MECH. EQUIP. RM.	16 1/2 x 76"	60 GALS.												

\* SEE MOTOR CONTROL SYMBOLS - SH. M-16



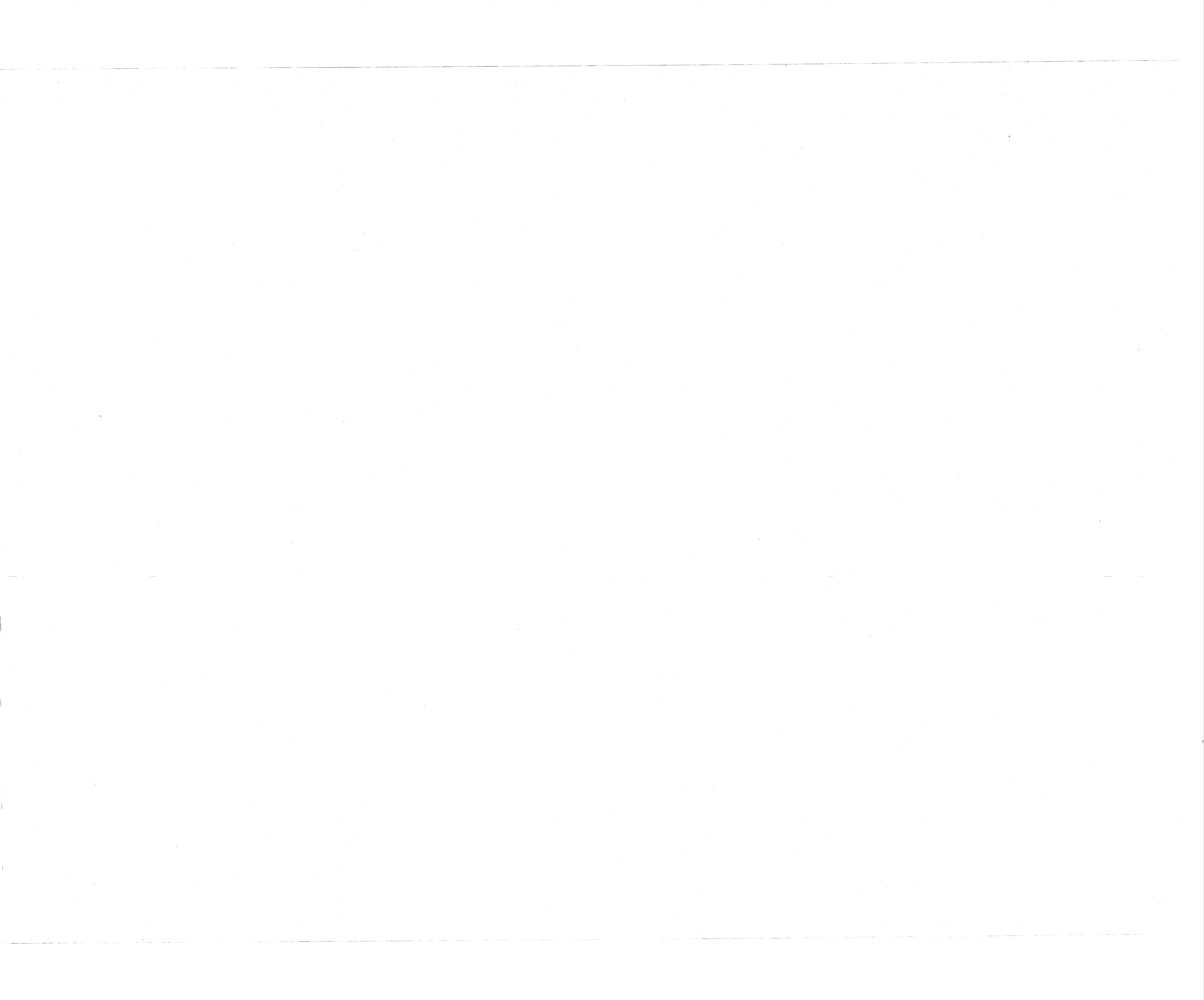
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED



# FC 312

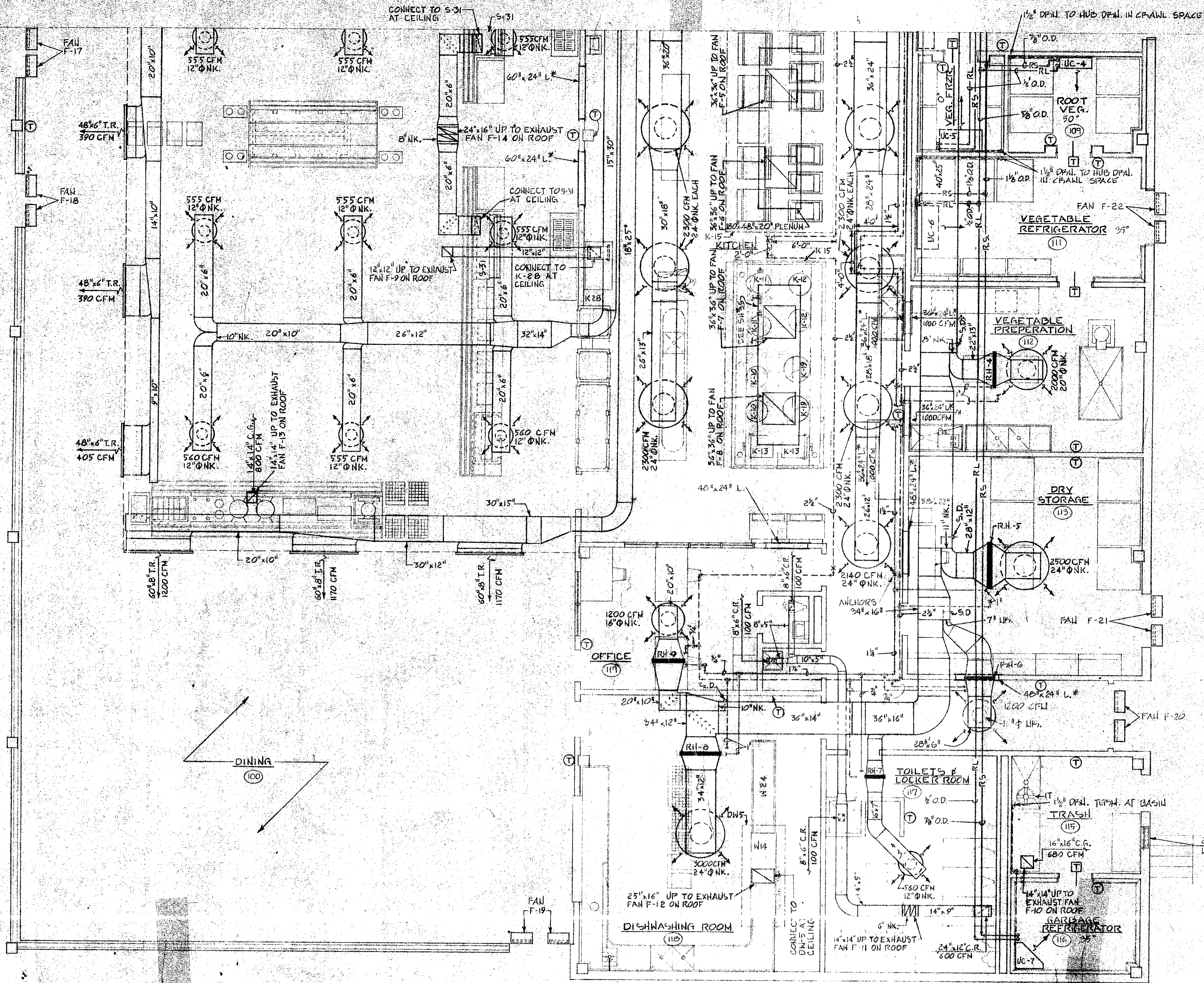
REF. NO. SH. M-11	J. N. PEASE ASSOCIATES CHARLOTTE, NORTH CAROLINA ARCHITECTS-ENGINEERS	DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS ATLANTIC DIVISION NORFOLK 11, VIRGINIA
DES. D.W.R.	DR. O.T.O.	CHK. A.W.R.
PROJ. MGR. D.M. MACKINTOSH, AIA, PE	DATE: 1 JUN 66	CAMP LEEJUNE NORTH CAROLINA
SUBMITTED BY: J. N. Pease	DATE: 1 JUN 66	FORCE TROOPS COMPLEX INSTRUCTION BUILDING EQUIPMENT SCHEDULE-CONTROL DIAGRAMS
FIRM MEMBER	PRINCIPAL	SIZE: CODE IDENT NO. Y & D DRAWING NO.
DRAWINGS: RVD	DATE: 3/11/66	F 8Q091 1107044
SCALE AS NOTED	SPEC. 69815/66-NBY 69815	SHEET 104 OF 166
DATE: 20 JUN 66	OFFICER IN CHARGE	ANTHONY DINE, NO. 73044







REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED



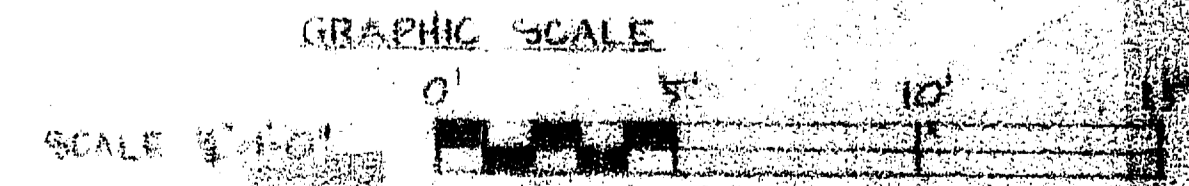
MATCH LINE  
SEE SH. M-14

SUBSISTENCE BUILDING - PARTIAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

\* SEE SH. 25 FOR LOUVER L.

NOTE:  
ALL RETURN AIR DUCTS ARE INTERNALLY LINED WITH INSULATION. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. ADD 2" EA. WAY FOR SH. HLT. SIZES.



REF. NO. SH. M-15	J. N. PEASE ASSOCIATES CHARLOTTE, NORTH CAROLINA ARCHITECTS-ENGINEERS	DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS
	DES. DWG. I, CR. R.D.   CHK. A.W.R. PROJ. MGR. D. M. MACKINTOSH, JIA, PE SUBMITTED BY: [Signature] DATE: JUN 66 TEAM MEMBER: [Signature] PRINCIPAL ENR/LANDSCAPE: [Signature] ENG. DIV. [Signature] BY: [Signature] DATE: [Signature] APPROVED BY: [Signature]	ATLANTIC DIVISION NORFOLK 11, VIRGINIA MARINE CORPS BASE NORTH CAROLINA
CAMP LEJUNE		FORCE TROOPS COMPLEX SUBSISTENCE BUILDING PARTIAL FLOOR PLAN NO. 2
SIZE: CODE: REVISION NO.		F 80091 1107048



