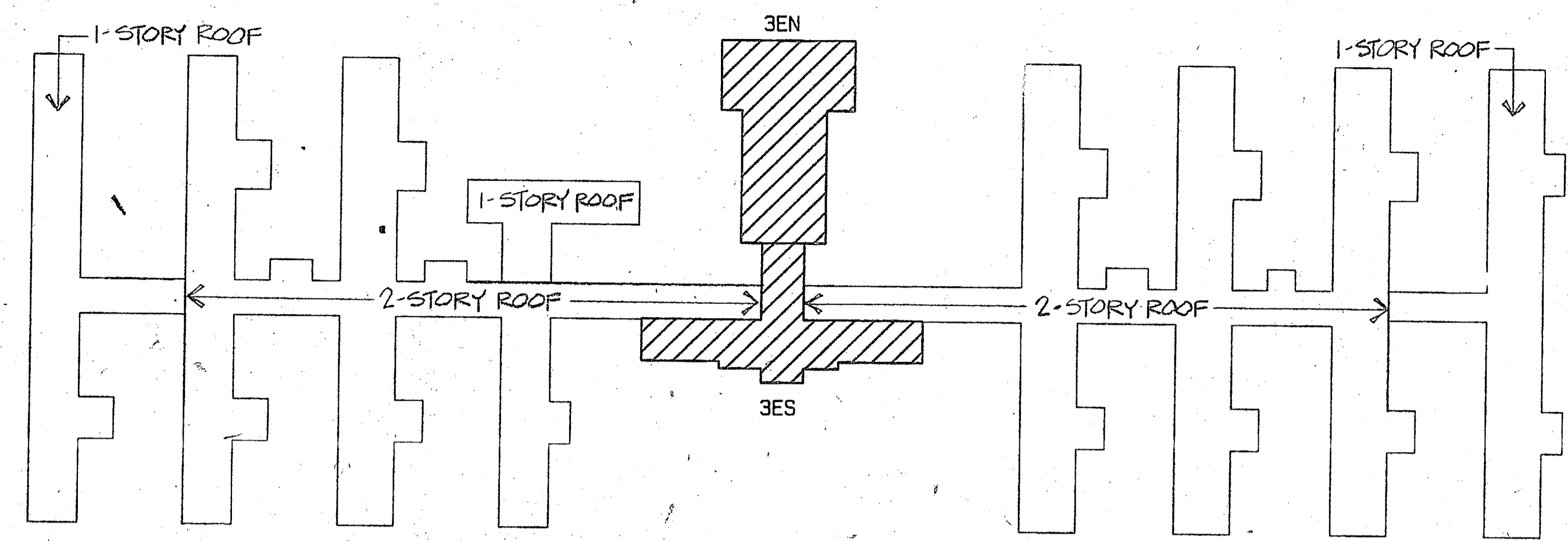
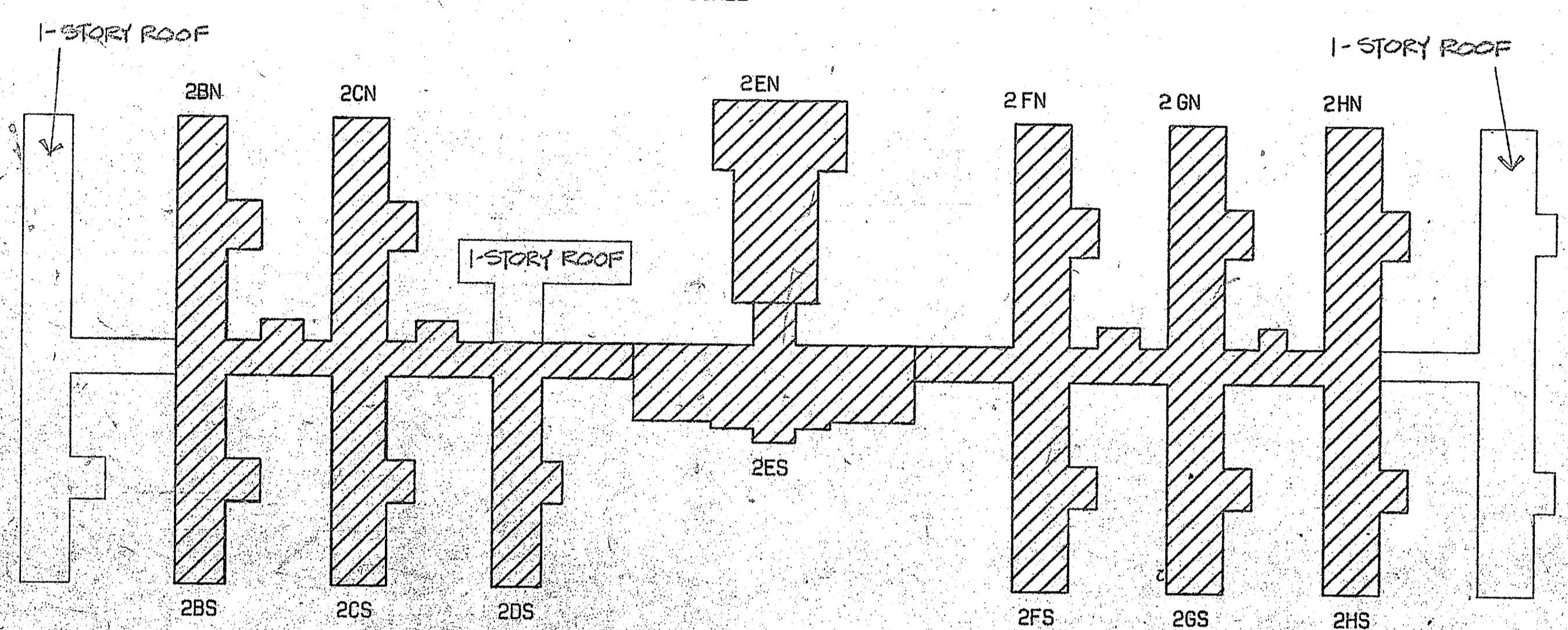


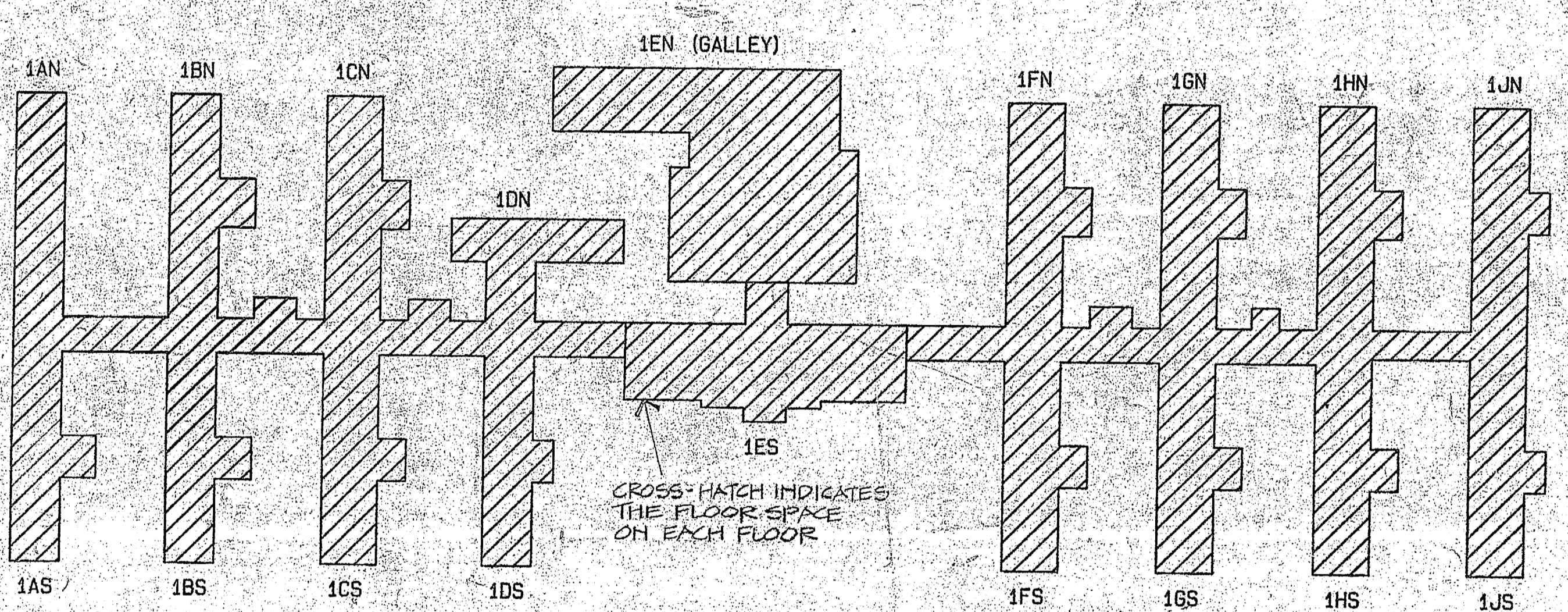
REV	DESCRIPTION	PREP BY	DATE	APPROVED
1	GENERAL REVISIONS	GHS	2/18/85	OF



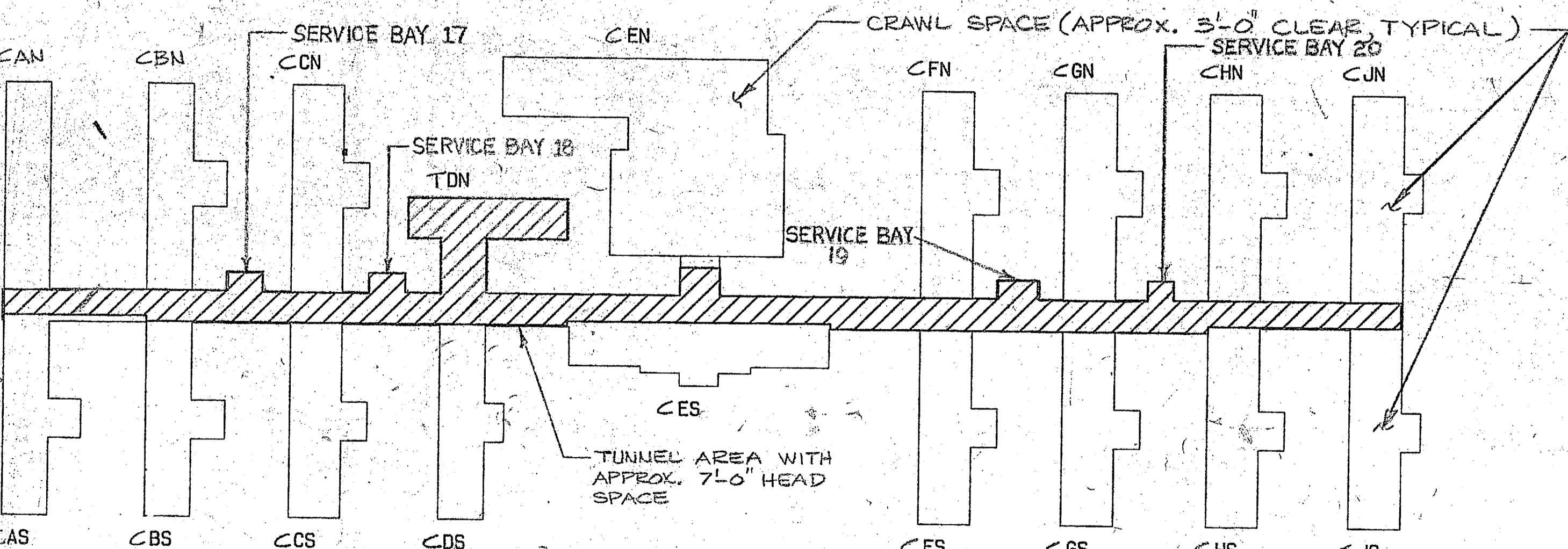
THIRD FLOOR PLAN
NOT TO SCALE



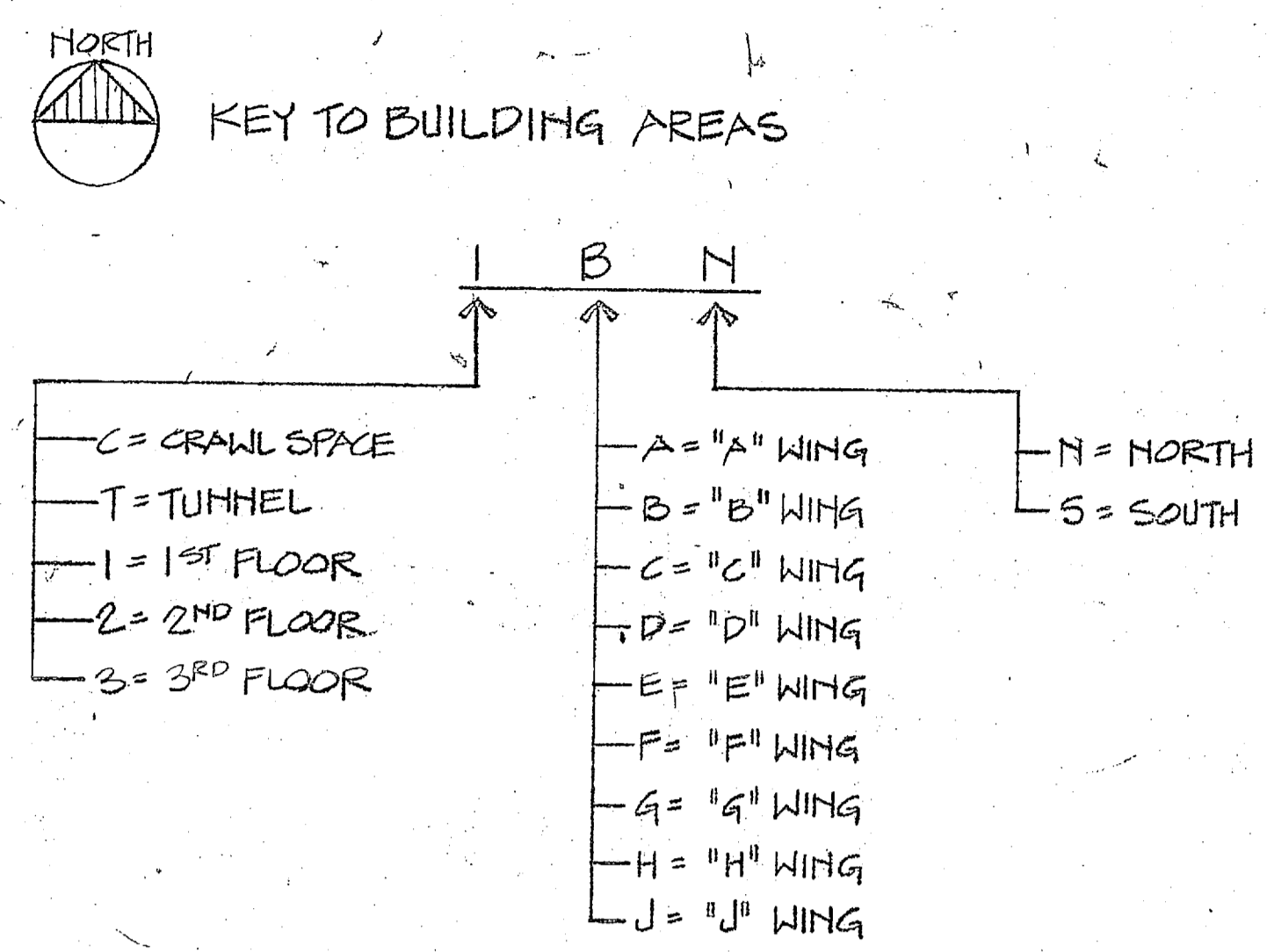
SECOND FLOOR PLAN
NOT TO SCALE



FIRST FLOOR PLAN
NOT TO SCALE



TUNNEL PLAN
NOT TO SCALE



- ASBESTOS REMOVAL NOTES:**
- REFER TO THE MECHANICAL & PLUMBING REFERENCE DRAWINGS FOR PIPING SIZES AND LENGTHS IN THE EXISTING BUILDING.
 - ALL OF THE FOLLOWING TYPES OF PIPING HAVE ASBESTOS TYPE INSULATION:
 - MECHANICAL - HPA, HES, HWR, HWS, LPS, MPR, MPS
 - BASE COST ON FOLLOWING QUANTITIES:
 - CRAWL SPACE
 - PIPE LESS THAN 4 IN. DIA., INSULATION 2 IN. THICK, QTY. = 3924 L.F.
 - ABOVE FLOOR
 - PIPE LESS THAN 4 IN. DIA., INSULATION 2 IN. THICK, QTY. = 11768 L.F.
 - PIPE 4 TO 6 IN. DIA., INSULATION 2 IN. THICK, QTY. = 3725 L.F.
 - PIPE 8 IN. DIA., INSULATION 3 IN. THICK, QTY. = 1540 L.F.
 - ALL HEAT EXCHANGERS AND PIPING SPECIALTIES ASSOCIATED WITH THE PIPING SYSTEMS MENTIONED IN THE NOTE NO. 2 ABOVE ARE INSULATED WITH ASBESTOS TYPE MATERIAL. BASE COST ON 1032 SQ. FT.
 - ALL OF THE FOLLOWING DUCT SYSTEMS HAVE ASBESTOS INSULATION AND/OR ASBESTOS DUCT BOARD. BASE COST ON 29,505 SQ. FT.
 - EXHAUST DUCTS FROM EXHAUST FANS LOCATED IN THE ATTIC SPACES DOWN TO THE RESPECTIVE TERMINAL GRILLES AS FOLLOWS:

1FN	1FN (G)	1FN
1AG	1FN (M)	2FN
1BN	1FS	1FS
2BN	2EN	2FS
1BS	2EN (GYM)	1GH
2BS	2ES	1GS
1CN	3EN	2GN
1GN	3EN (GYM)	2GS
1CS	3ES	2HN
1DS	2HS	2HN
1FS	1JN	1JN
1GS	1JS	1JS
 - GYMNASIUM H.V. SYSTEMS
 - GALLEY MAKEUP AIR SYSTEMS

- PIPING INSULATION AND DUCTWORK (LOCATED IN WALLS, CHASES AND ABOVE CEILINGS WHICH ARE NOT BEING REWORKED) SHALL NOT REQUIRE THE REMOVAL OF ASBESTOS FROM THESE CONCEALED SPACES. IN LIEU OF REMOVING THE ASBESTOS FROM THIS CONCEALED PIPING AND DUCTWORK, THE CONCEALED SPACE SHALL BE SEALED AS DESCRIBED IN THE "REMOVAL AND DISPOSAL OF ASBESTOS MATERIALS" SECTION 02075 OF VOLUME I OF THE SPECIFICATIONS.
- ALL DUCT FLEXIBLE CONNECTIONS TO FANS AND AIR HANDLING UNITS HAVE ASBESTOS FIBERS.

HVAC LEGEND - MECHANICAL

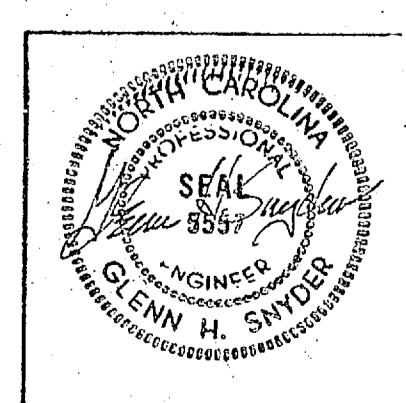
- ABBREVIATIONS:
- AL - ACTIVE LENGTH
 - AC-1 - COMPUTER ROOM AIR COND. UNIT
 - AHU-1AS - AIR HANDLING UNIT SERVING 1AS, ETC.
 - CUH-1 - CABINET UNIT HEATER No. 1, ETC.
 - CVD-1 - CONSTANT VOLUME BOX No. 1, ETC.
 - EF-1 - EXHAUST FAN No. 1, ETC.
 - FCU-1 - FAN COIL UNIT No. 1, ETC.
 - RTAC-1 - ROOFTOP AIR CONDITIONING UNIT No. 1, ETC.
 - SD - SPLITTER DAMPER
 - UH-1 - UNIT HEATER No. 1, ETC.
 - 1AN - 1-1ST FLOOR, A="A" WING, N-NORTH
 - 2BS - 2-2ND FLOOR, B="B" WING, S-SOUTH
 - 1EN (M) - 1-1ST FLOOR, E="E" WING, N-NORTH (M) - PRESS HALL
 - 1EN (G) - 1-1ST FLOOR, E="E" WING, N-NORTH (G) - GALLEY
- SYMBOLS:
- 9x9 AIR DISTRIBUTION DEVICE "A", 9x9 INLET, 235 CFM.
 - HOT WATER RADIATOR, ACTIVE LENGTH
 - TERMINAL UNIT No. 5, NUMBERED PER WING
 - SUPPLY DUCTWORK OR GRILLE
 - RETURN DUCTWORK OR GRILLE
 - EXHAUST DUCTWORK OR GRILLE
 - ROUND DUCT VVFB - VARIABLE VOLUME FAN BOX
 - OVAL DUCT VI - VIBRATION ISOLATOR
 - THERMOSTAT FC - FLEXIBLE CONNECTION
 - FLEXIBLE DUCT OED - OPPOSED BLADE DAMPER
 - DUCT RISE IN DIR. OF ARROW
 - DUCT DROP IN DIR. OF ARROW
 - HOT WATER COIL
 - BUILDING WING SHOWN ON PLAN
 - 1/2" DIA. TEST PORT
 - AHU DUCT FIRE STAT.
 - AHU DUCT SMOKE DETECTOR
 - AIR DUCT ACCESS DOOR CONTROL THERMOSTAT
- HVAC DEMOLITION LEGEND - MECHANICAL
- SR - STEAM RADIATOR
 - SRE - STEAM RADIATOR ENCLOSED (IN FURRING)
 - VCP - VITREOUS CLAY PIPE
 - C - CONDENSER PIPE
 - CR - CONDENSER WATER RETURN
 - CH - COLD WATER
 - TR - TO REMAIN
 - AHU - AIR HANDLING UNIT
 - RHA - RETURN AIR GRILLE
 - RA - FLOOR GRILLE

PIPING LEGEND - MECHANICAL

- ABBREVIATIONS:
- CD - STEAM CONDENSATE DRAIN
 - CHWR - CHILLED WATER RETURN
 - CHWS - CHILLED WATER SUPPLY
 - PC - PUMPED CONDENSATE
 - CR - CONDENSER WATER RETURN
 - C - CONDENSER WATER SUPPLY
 - CH - COLD WATER
 - D - DRAIN LINE
 - DTR - DUAL TEMPERATURE RETURN
 - OTS - DUAL TEMPERATURE SUPPLY
 - FMD - FLOW METERING DEVICE/BALANCING/SHUTOFF VALVE W/PRESSURE TAPS
 - H - HUMIDIFICATION LINE
 - MPDA - HIGH PRESSURE DRIP ASSEMBLY
 - MPR - HIGH PRESSURE RETURN
 - HPS - HIGH PRESSURE SUPPLY
 - HWR - HOT WATER RETURN
 - HWS - HOT WATER SUPPLY
 - LPSA - LOW PRESSURE DRIP ASSEMBLY
 - LPR - LOW PRESSURE RETURN
 - LPS - LOW PRESSURE SUPPLY
 - M - MOTOR OPERATED
 - NAV - MANUAL AIR VENT
 - MPDA - MEDIUM PRESSURE DRIP ASSEMBLY
 - MPR - MEDIUM PRESSURE RETURN
 - MPS - MEDIUM PRESSURE SUPPLY
 - FCV - FLOW CONTROL VALVE (CONSTANT FLOW/VARIABLE PRESSURE)
 - EHG - REFRIGERANT HOT GAS
 - RSU - REFRIGERANT SUCTION
- SYMBOLS:
- PIPE DROPS IN FLOW DIRECTION (SHOWN BY ARROW)
 - PIPE RISES IN FLOW DIRECTION (SHOWN BY ARROW) (PIPE RISES/DROPS ARE 1" PER 40 FT.)
 - PUMP
 - FLEXIBLE CONNECTION
 - EXPANSION JOINT
 - FLOOR DRAIN
 - STEAM TRAP
 - FLOW SWITCH
 - DRAIN VALVE LOCATION
 - MANUAL AIR VENT
 - UNION
 - SLEEVE
 - STRAINER
 - STRAINER W/BLOWDOWN VALVE
 - CONCENTRIC REDUCER
 - ECCENTRIC REDUCER
 - PRESSURE REDUCING VALVE
 - STOP COCK
 - CHECK VALVE
 - 2-WAY CONTROL VALVE
 - 3-WAY CONTROL VALVE
 - GATE VALVE
 - MOTOR OPERATED 3-WAY VALVE
 - MOTOR OPERATED GATE VALVE
 - GATE VALVE W/HOSE END
 - GLOBE VALVE
 - MOTOR OPERATED GLOBE VALVE
 - GLOBE VALVE W/HOSE END
 - GAGE COCK
 - BUTTERFLY VALVE
 - THERMOMETER
 - PRESSURE GAGE
 - A.S. AIR SEPARATOR
 - FLOW METERING DEVICE
 - FD FIRE DAMPER
 - A.E.V. WATER PIPE ANCHOR AIR ELIMINATION VALVE

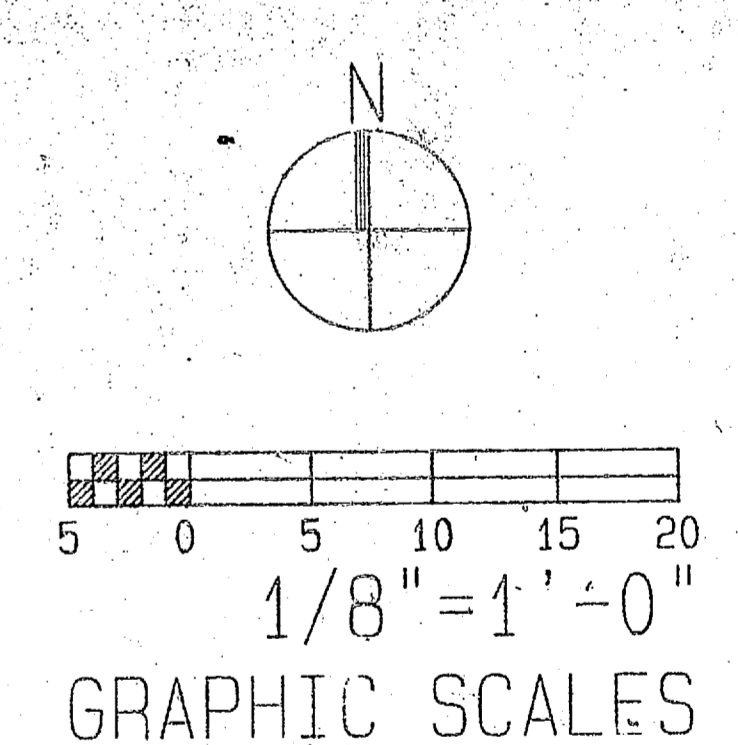
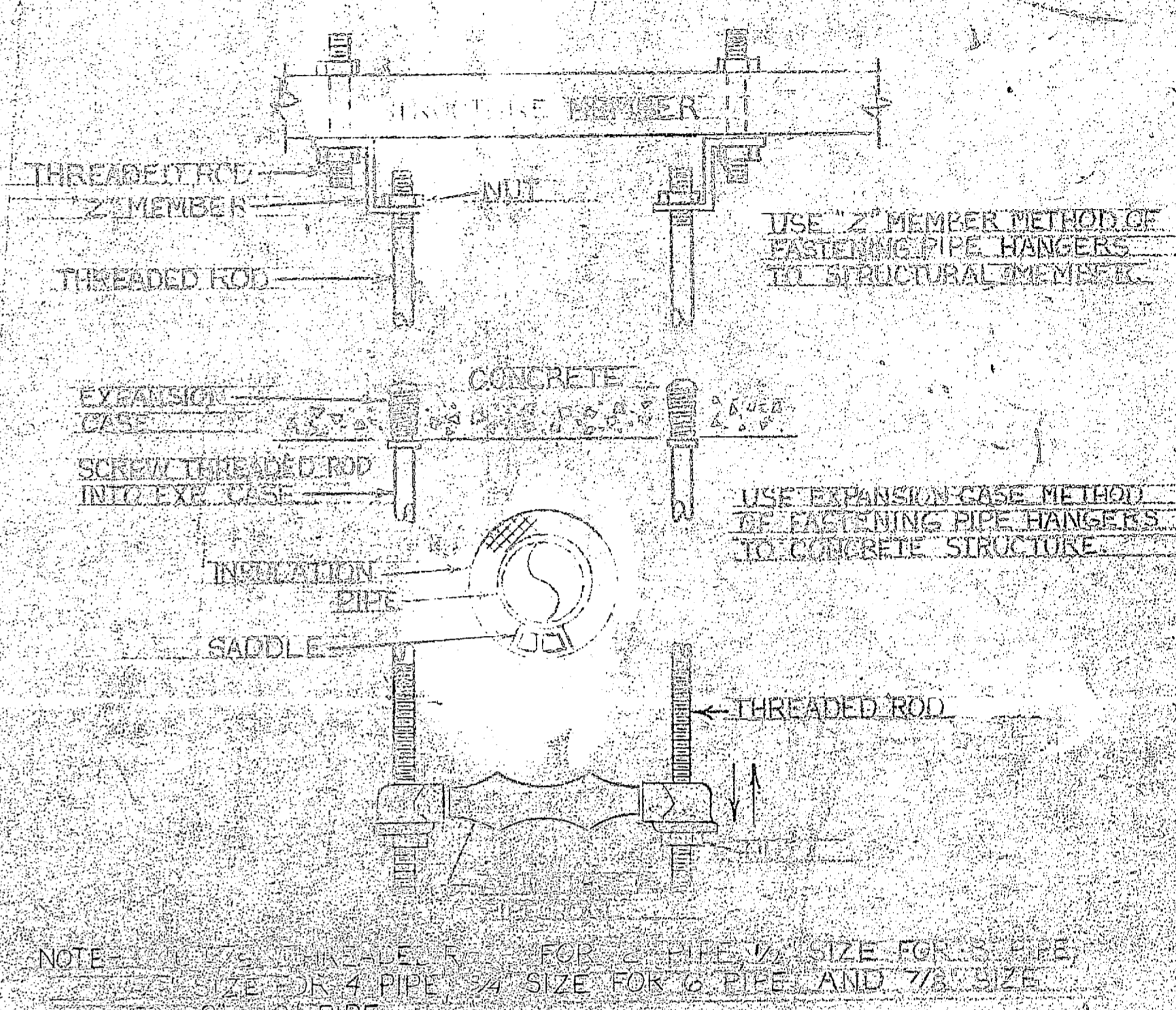
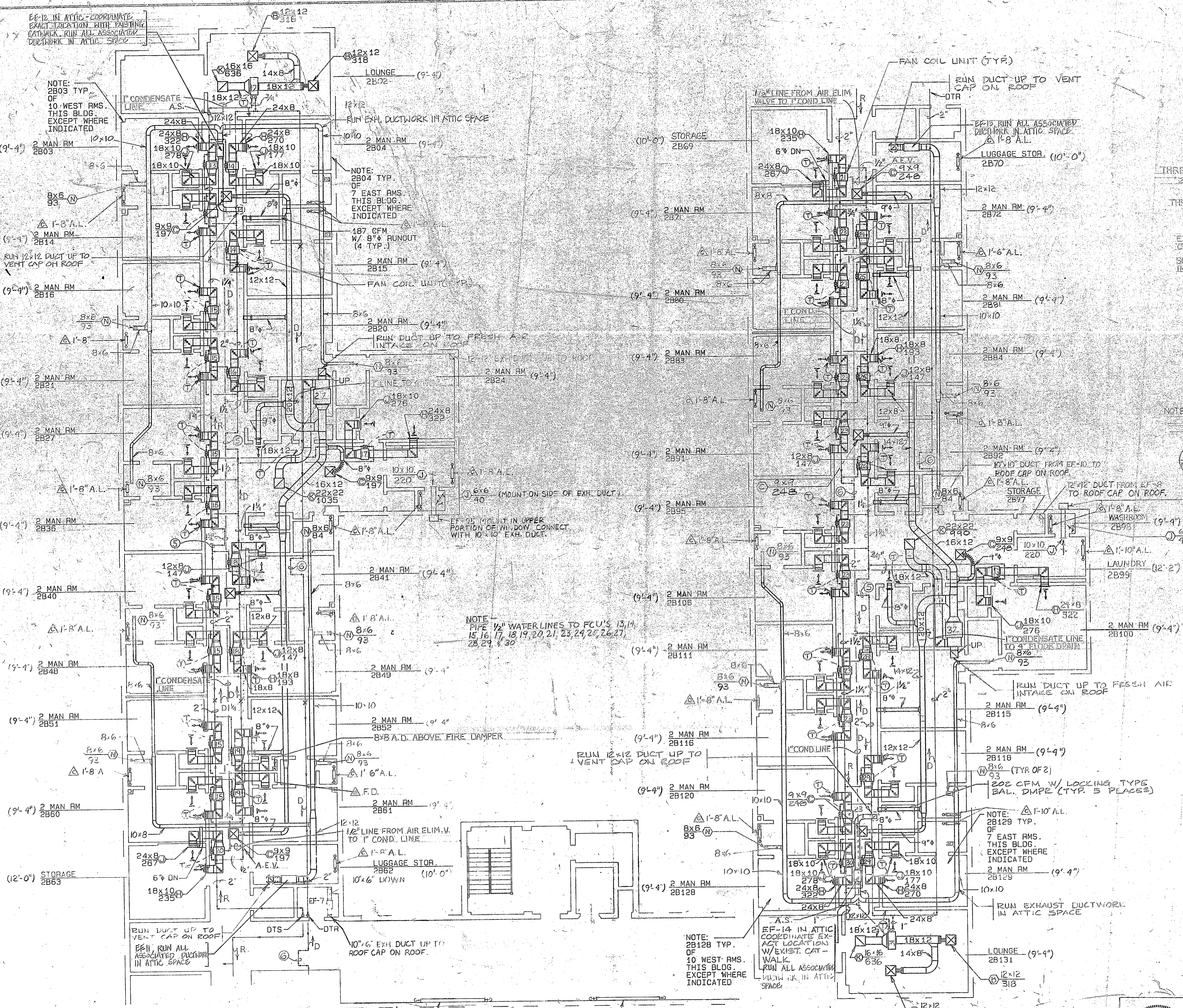
DEMOLITION NOTES - MECHANICAL

- ALL ITEMS SHOWN ON THE DEMOLITION PLANS SHALL BE REMOVED AND DISPOSED OF UNLESS NOTED BY "TR".
- PIPING AND DUCTWORK CONCEALED IN WALLS THAT DO NOT INTERFERE WITH THE INTENT OF THE NEW WORK SHALL BE SEALED OFF AS SHOWN ON SHEET A-12 IN THE ARCHITECTURAL PLANS.
- REMOVE ALL STEAM RADIATORS AND ASSOCIATED PIPING, TRAPS, VALVES AND ETC. SEE PIPE SIZES AND LENGTHS ON THE "MECHANICAL REFERENCE DRAWINGS."
- ALL SURFACES AND STRUCTURES THAT ARE DAMAGED DURING THE DEMOLITION WORK SHALL BE REFURBISHED AS SHOWN IN THE ARCHITECTURAL PLANS.
- ALL EQUIPMENT SUPPORT PADS FOR ALL HVAC EQUIPMENT LOCATED ON THE EXTERIOR OF THE BUILDING SHALL BE REMOVED.
- ALL EXISTING THRU-THE-WALL AND WINDOW TYPE AIR CONDITIONING UNITS SHALL BE REMOVED BY THE GOVERNMENT DURING THE VARIOUS PHASES OF THE WORK AND REMAIN PROPERTY OF THE GOVERNMENT.



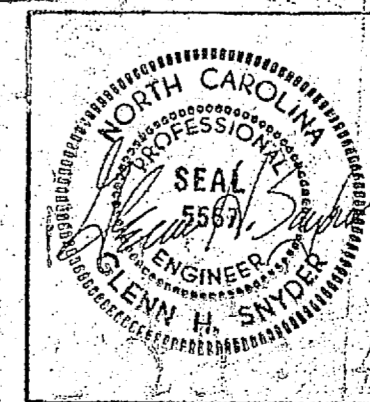
FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION	
DESIGNED BY: G. H. S. DRAWN BY: [Signature] CHECKED BY: [Signature] PROJECT MANAGER: [Signature]		MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA CONVERT HOSPITAL TO DIVISION HEADQUARTERS	
SUBMITTED BY: [Signature] DATE: 6/15/85 FIELD NUMBER: [Signature] E.D. NO.: [Signature] HD: [Signature]		MECHANICAL - KEY PLAN & LEGEND SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 4124269 CONSTR. CONTR. NO. N62470-82-B-2243 SCALE: AS NOTED (ENC 03-82-2243 (REV.)) SHEET 114 OF 243	

REVISIONS				
SYM	DESCRIPTION	PREP BY	DATE	APPROVED
1	GENERAL REVISION	GHS	2/19/85	CF



MECHANICAL PLAN - 2B NORTH
1/8"=1'-0"

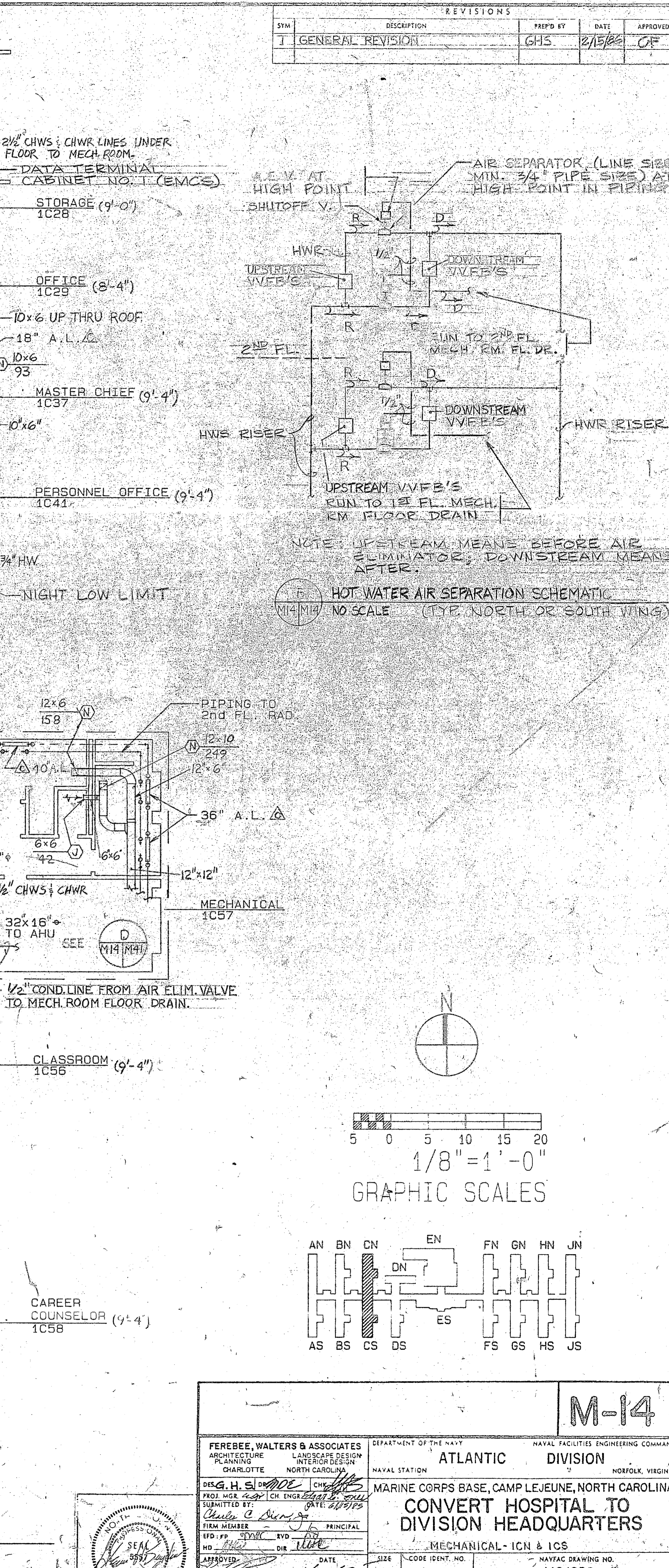
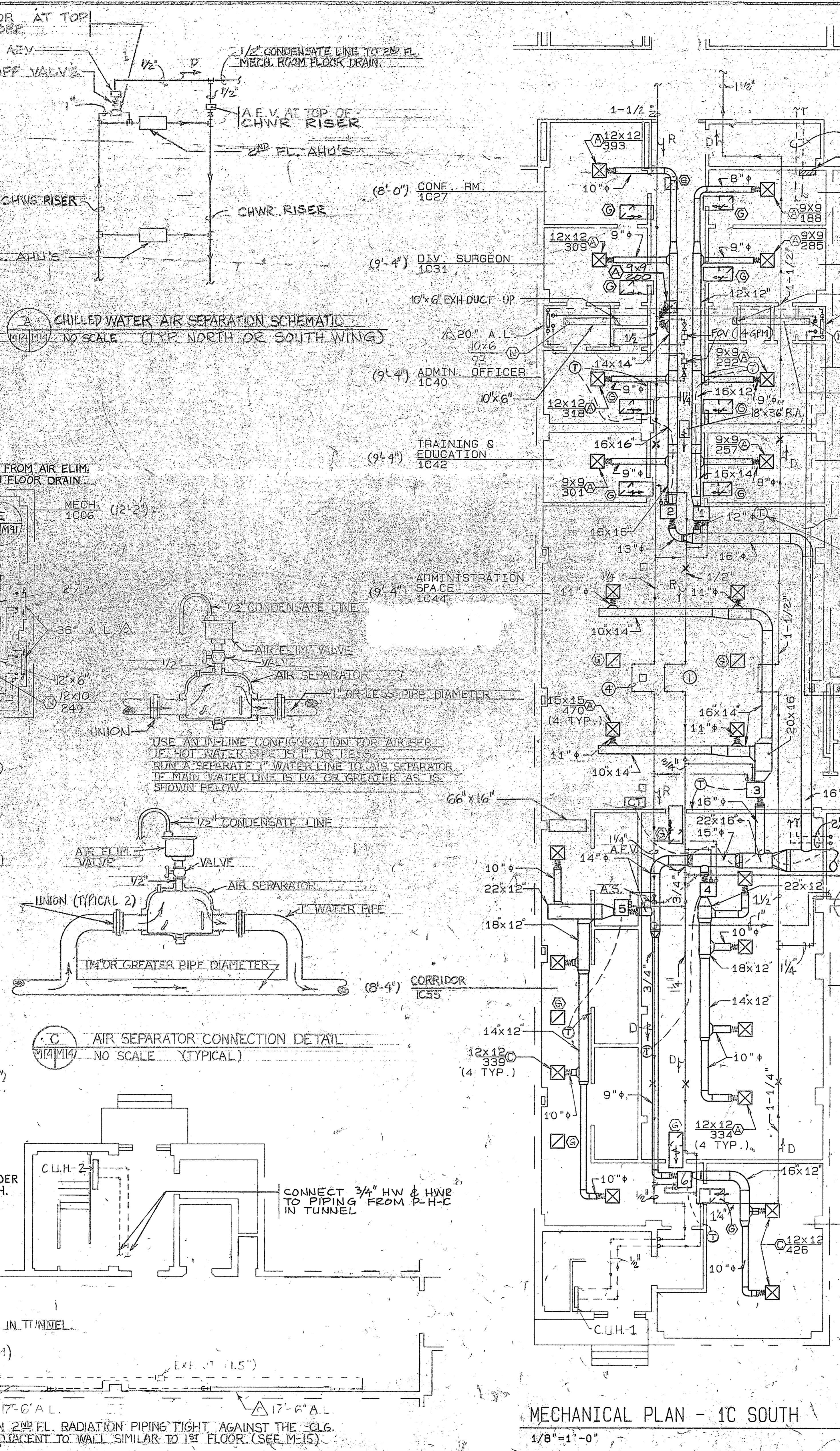
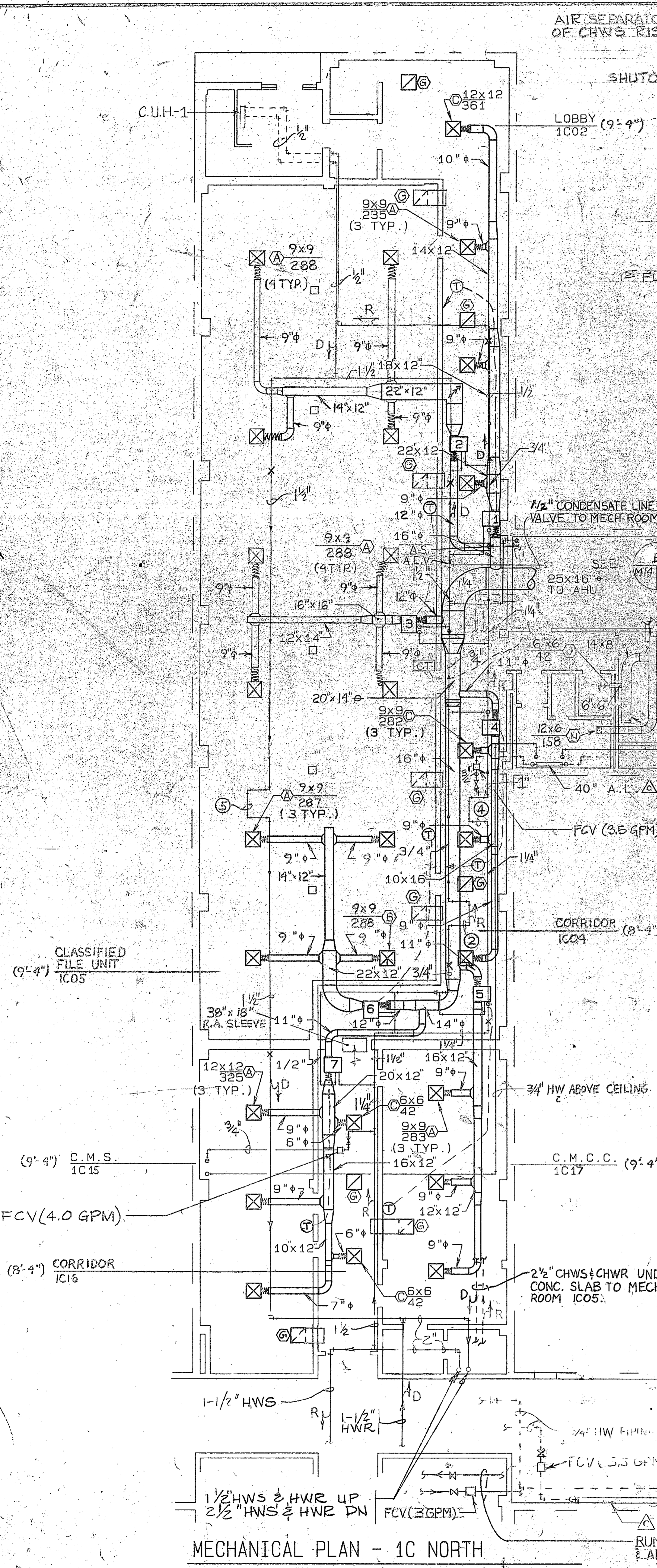
MECHANICAL PLAN - 2B SOUTH
1/8"=1'-0"



FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA	
DESIGNED BY: G. H. S. SUBMITTED BY: G. H. S. FIELD ENGINEER: G. H. S. DATE: 1/17/85		DRAWN BY: G. H. S. DATE: 1/17/85	
APPROVED: G. H. S. DATE: 1/17/85		APPROVED: G. H. S. DATE: 1/17/85	
OFFICE IN CHARGE: G. H. S.		OFFICE IN CHARGE: G. H. S.	
SCALE: AS NOTED		SCALE: AS NOTED	
PROJECT NO. 80091		PROJECT NO. 80091	
CONSTR. CONTR. NO. N62470-82-B-2243		CONSTR. CONTR. NO. N62470-82-B-2243	
SHEET 126 OF 243		SHEET 126 OF 243	

M-13

REV	DESCRIPTION	PREP BY	DATE	APPROVED
1	GENERAL REVISION	GHS	2/15/85	CP



M-14

FERBEE, WALTERS & ASSOCIATES
ARCHITECTURE
LANDSCAPE DESIGN
INTERIORS
CHARLOTTE NORTH CAROLINA

DEPT. OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VIRGINIA

PROJECT: MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
CONVERT HOSPITAL TO DIVISION HEADQUARTERS

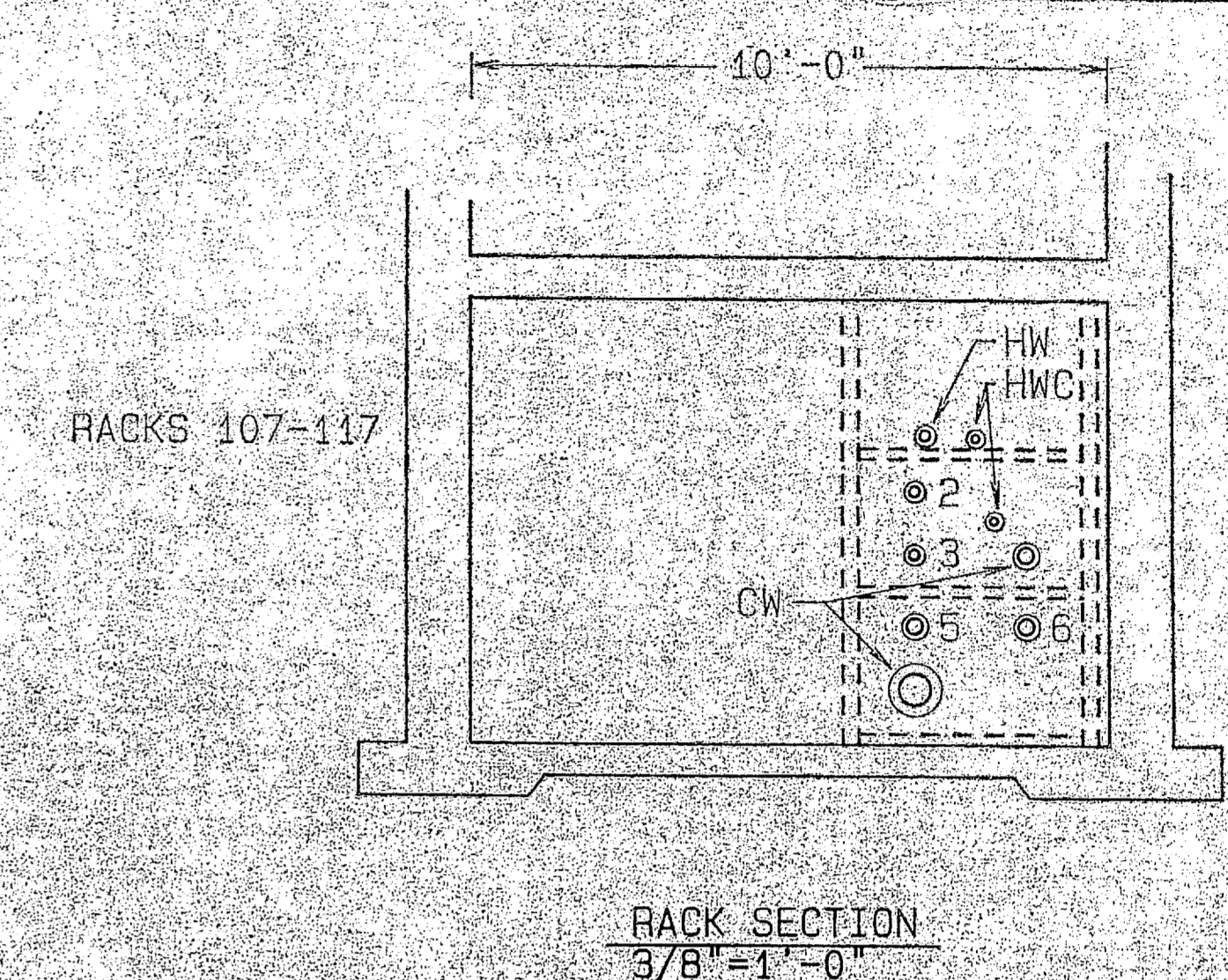
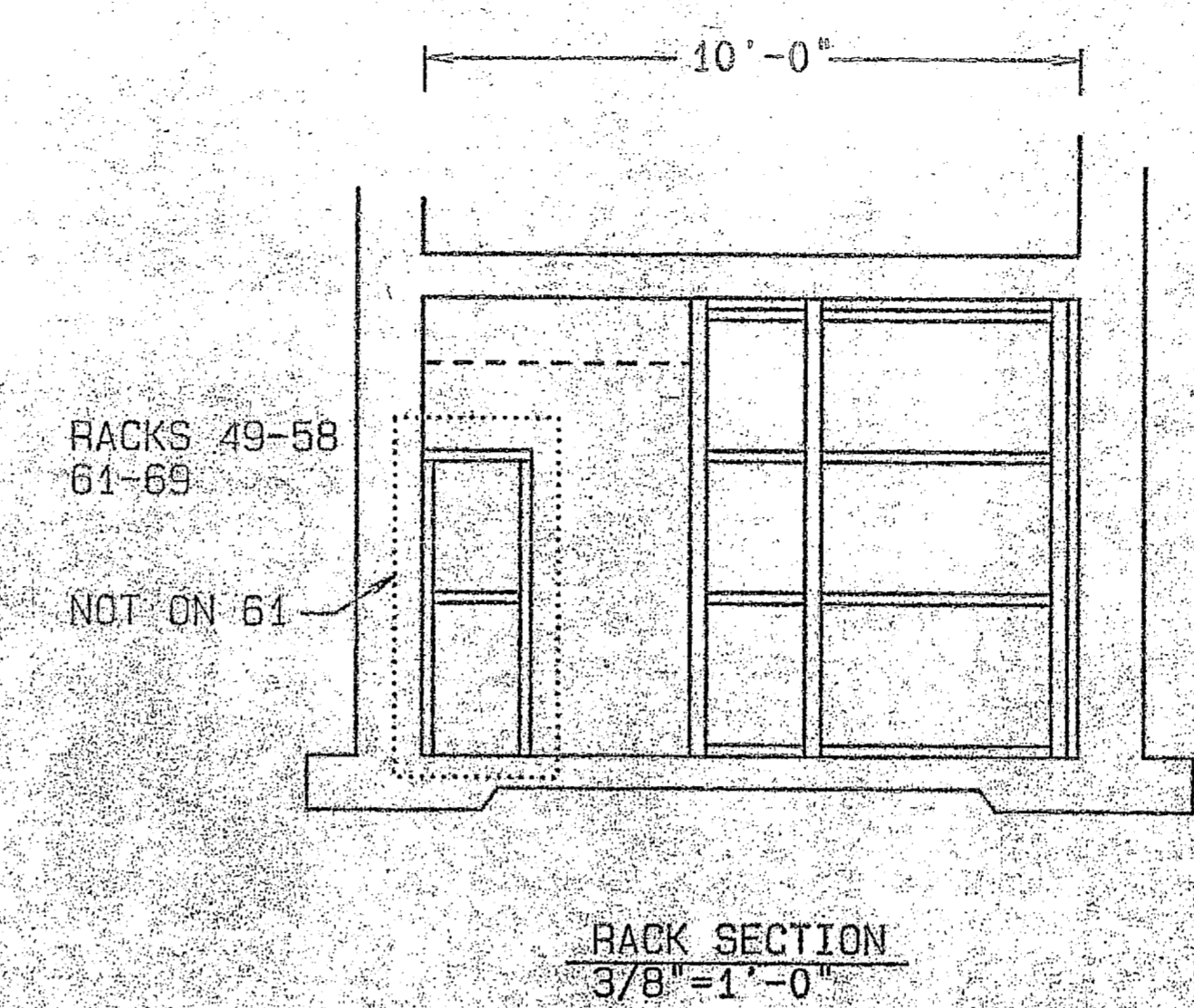
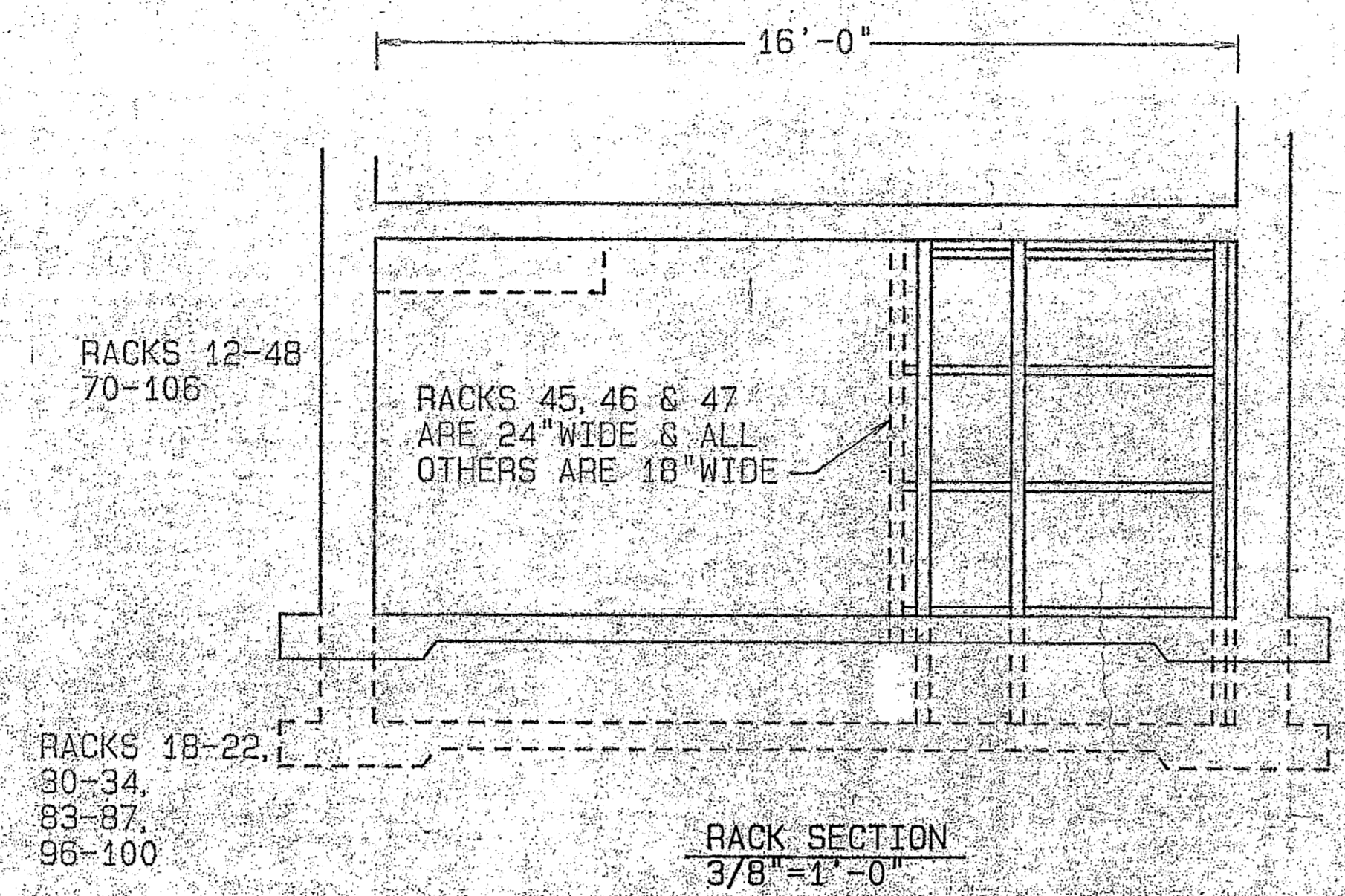
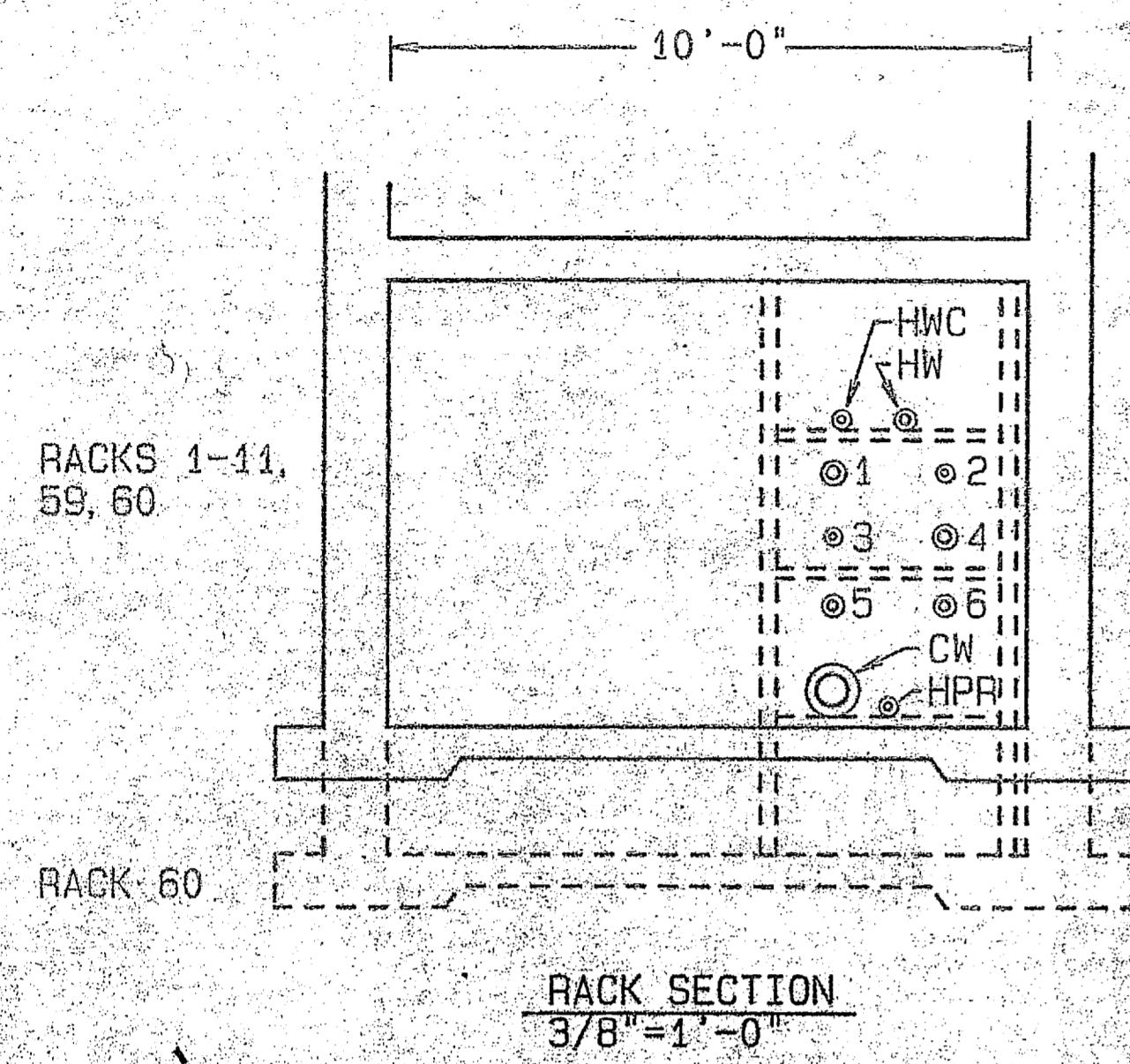
MECHANICAL - 1C N & S

NAVAC DRAWING NO. 4124282
CONSTR. CONTR. NO. N62470-82-9-2243

DATE: 1/17/85
OFFICER IN CHARGE: [Signature]
DATE: 1/17/85

SCALE: AS NOTED (VIC. 05-82-2243 (REV.)) SHEET 27 OF 243

REVISIONS				
REV	DESCRIPTION	PREP'D BY	DATE	APPROVED
1	GENERAL REVISION	AMS	2/15/88	



RACKS 1-11, 59, 60

RACKS 12-48, 70-106

RACKS 45, 46 & 47 ARE 24\"/>

RACKS 49-58, 61-69

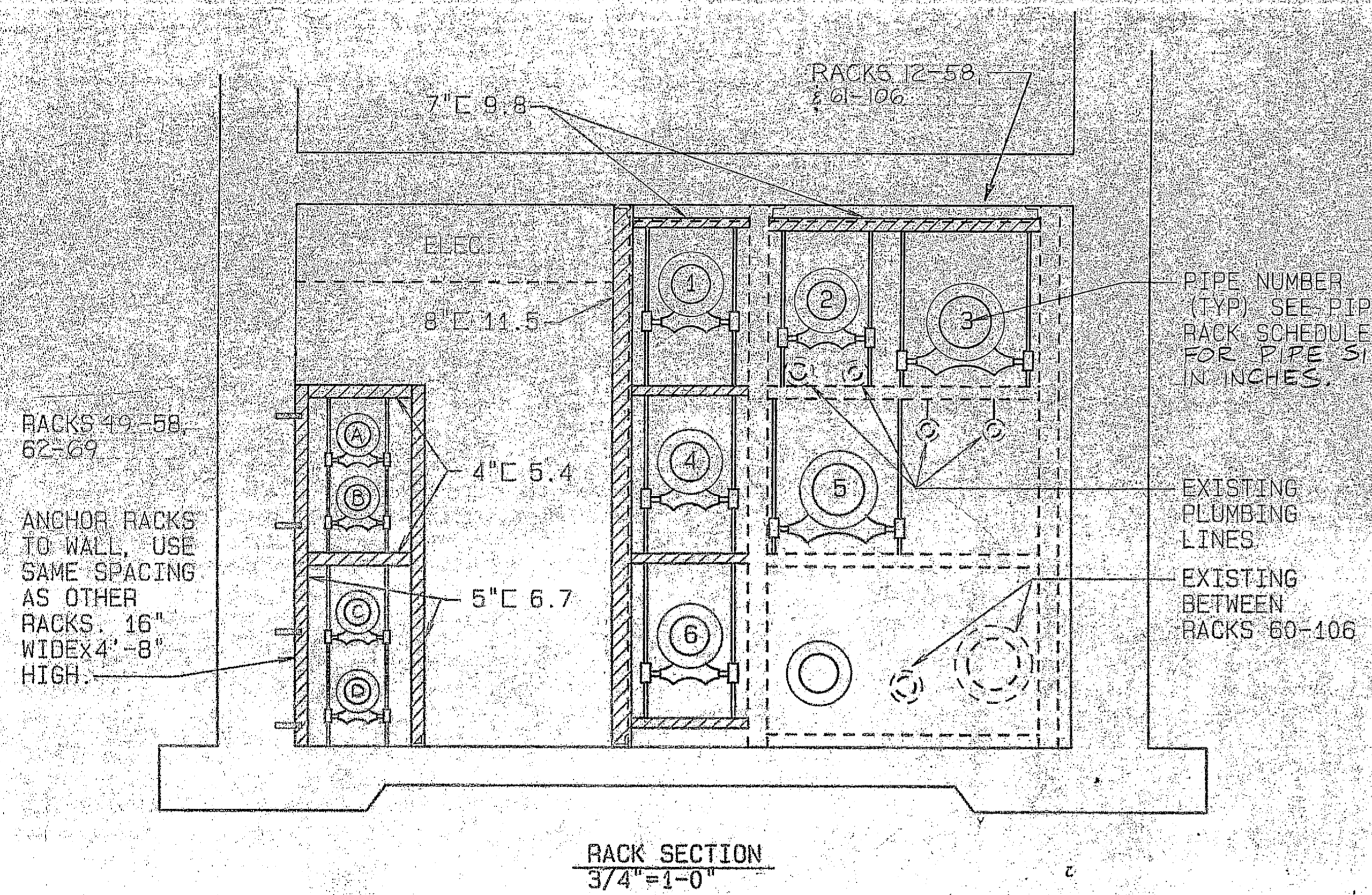
RACKS 107-117

RACK 60

RACKS 18-22, 30-34, 83-87, 96-100

RACK SECTION 3/8\"/>

RACK SECTION 3/8\"/>



RACKS 49-58, 62-69

RACK SECTION 3/4\"/>

PIPE NUMBER (TYP) SEE PIPE RACK SCHEDULE FOR PIPE SIZE IN INCHES.

EXISTING PLUMBING LINES

EXISTING BETWEEN RACKS 60-106

PIPE RACK SCHEDULE

RACK No.	PIPE NUMBER						RACK No.	PIPE NUMBER					
	1	2	3	4	5	6		1	2	3	4	5	6
WING A	DTR	HWR	HWS	DTS	CHWR	CHWS							
1							65	4	6	8	4	6	
2							66						
3	2 1/2	1 1/4	1 1/4	2 1/2	2	2	67						
4							68						
5							69						
6							70						
7							71	4	6	8	4	6	
8							72	4	4	4	6	6	
9							73	4	4	4	6	6	
10							74	2 1/2					
11	2 1/2	1 1/4	1 1/4	2 1/2	2	2	75						
WING B-H	LOOP HWR	PUMP HWR	PUMP CHWR	LOOP HWS	LOOP CHWR	LOOP CHWS	76						
12		6	6			4	77						
13	6			1 1/4		4	78						
14	6			2 1/2		6	79	2 1/2					
15							80						
16							81			8			
17					6	4	82						
18							83						
19							84		6	4			
20							85				6	4	
21							86						
22							87						
23							88						
24							89				6	8	
25							90				4	3	
26							91						
27							92	2 1/2					
28							93						
29							94						
30		6			3	6	95						
31							96						
32							97						
33							98						
34			6				99						
35	6			4			100						
36	4						101						
37							102					4	
38							103	2	1/2		8	3	
39							104						
40							105	3	3	4			
41							106	2					
42							WING J	1	2	3	4	5	6
43							107		HWR	HWS		CHWR	CHWS
44							108						
45		6	8				109		2	2		3	3
46				4			110						
47							111						
48					4	6	112						
49							113						
50							114						
51							115						
52							116						
53							117						
54													
55													
56													
57													
58													
59													
60													
61	4	6	8	4	6	6							
62													
63													
64													

PIPE RACK

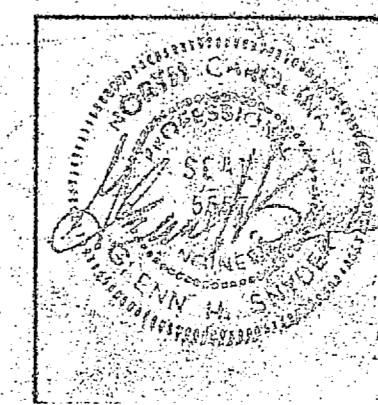
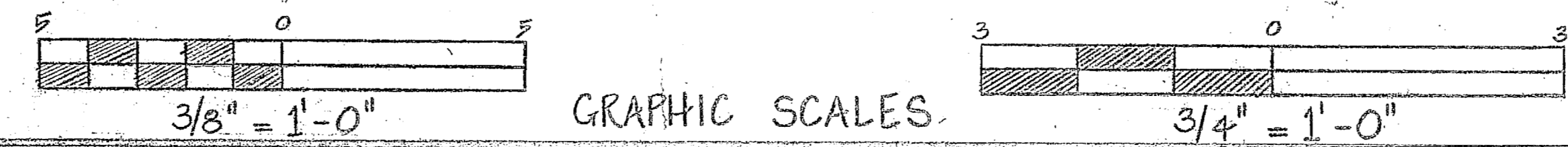
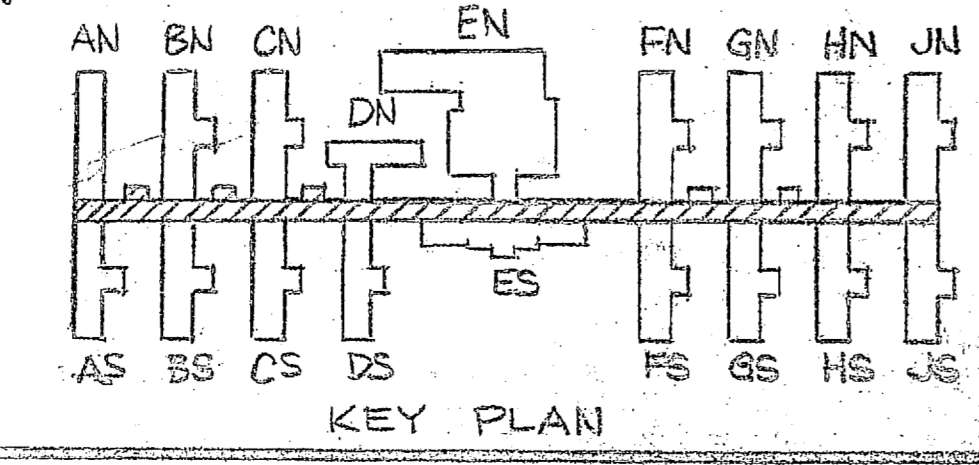
RACK PIPE	49-58	62-69
A	4" CHWR	2 1/2" HWR
B	4" CHWS	2 1/2" HWS
C	3" CHWR	3" HWR
D	3" CHWS	3" HWS

LEGEND

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CW	COLD WATER (DOMESTIC) -PLUMBING
DTS	DUAL TEMPERATURE SUPPLY
DTR	DUAL TEMPERATURE RETURN
HPR	HIGH PRESSURE RETURN
HPS	HIGH PRESSURE SUPPLY
HW	HOT WATER (DOMESTIC) -PLUMBING
HWC	HOT WATER CIRCULATING (DOMESTIC) -PLUMBING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY

NOTES

- ALL PIPE RACKS ARE EXISTING AND ARE TO REMAIN.
- SEE SHEET M-10 FOR LOCATION OF RACKS IN THE TUNNEL.
- PIPE WORK SHALL BE COORDINATED WITH PROJECT PHASES.
- STEAM LINE SHALL BE LEFT INTACT UNTIL THE HOT WATER PIPING SYSTEM IS OPERATIONAL.
- CHILLED WATER PIPING SHALL BE INSTALLED AFTER THE STEAM PIPING IS REMOVED.
- REPLACE ALL EXPANSION JOINTS IN THE 8" HPS LINE FROM RACK 59 THRU RACK 105. SEE SHEET M-2 FOR LOCATION.
- COORDINATE WORK WITH SHEETS M-2, M-5, P-10, AND P-36.
- RACKS ARE VIEWED AS STANDING ON THE WEST SIDE LOOKING IN THE EAST DIRECTION. RACKS ARE ADJACENT TO THE SOUTH WALL OF THE TUNNEL.
- NEW RACKS SHALL BE BOLTED SIMILAR TO EXISTING RACKS. SECURE TO TUNNEL WALLS, CEILINGS AND FLOORS TO PREVENT MOVEMENT AND STRESS.



FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA	
DESIGNED BY: GHS, DR. K. W. CH. J. S. PROJECT MGR.: C. D. CH. ENGS. DATE: 2/15/88 SUBMITTED BY: Charles C. Davis FIRM MEMBER: Charles C. Davis, PRINCIPAL		MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA CONVERT HOSPITAL TO DIVISION HEADQUARTERS MECHANICAL TUNNEL RACKS	
APPROVED BY: [Signature] DATE: 2/15/88 OFFICER IN CHARGE	DATE: 2/15/88	SIZE: F	CODE IDENT. NO.: 80091
FOR EFD FOR COMMANDER, NAVFAC		SCALE:	NAVFAC DRAWING NO.: 412431D CONSTR. CONTR. NO. NS2470-82-23-2243 SHEET 157 OF 219

M-45

EXHAUST FAN SCHEDULE

TAG NO.	CFM	S.P.	MOTOR	NOTES	LOCATION	SERVICE
E1-1	500	.25	1/20-120/1	5,6,8	IAH	T
2	160	.25	1/20-120/1	5,6,8	IA'S	T
3	443	.25	1/20-120/1	5,6,8	IA'S	M
4	400	.125	1/20-120/1	5,11	IBH	M
5	443	.25	1/20-120/1	6,8	IBH	T
6	400	.125	1/20-120/1	11	IBH	M
7	201	.25	1/15-120/1	6,8	IBH	T
8	443	.25	1/20-120/1	6,8	IBS	T
9	400	.25	1/20-120/1	11	IBS	M
10	306	.25	1/15-120/1	4,5,8	IBH	LAUNDRY
11	443	.25	1/20-120/1	5,6,8	IBH	T
12	549	.25	1/20-120/1	5,6,8	IBS	T
13	443	.25	1/20-120/1	5,6,8	IBH	T
14	549	.25	1/20-120/1	5,6,8	IBH	T
15	300	.25	1/20-120/1	6,8	IBS	T
16	400	.125	1/20-120/1	11	IBS	M
17	443	.25	1/20-120/1	6,8	IBS	T
18	400	.125	1/20-120/1	11	IBS	M
19	443	.25	1/20-120/1	6,8	IBH	T
20	400	.125	1/20-120/1	11	IBH	M
21	89	.125	1/25-120/1	4,5,8	IBS	T
22	443	.25	1/20-120/1	6,8	IBS	T
23	400	.125	1/20-120/1	11	IBS	M
24	186	.25	1/40-120/1	5,6,8	IBH	T
25	186	.25	1/40-120/1	5,6,8	IBH	T
26	524	.25	1/20-120/1	5,6,8	IBH	T
27	120	.125	1/20-120/1	5,11	IBH	M
28	530	.125	1/20-120/1	5,11	IBH	M
29	443	.25	1/20-120/1	6,8	IBS	T
30	400	.125	1/20-120/1	11	IBS	M
31	443	.25	1/20-120/1	6,8	IBS	T
32	443	.25	1/20-120/1	6,8	IBS	T
33	443	.25	1/20-120/1	6,8	IBS	T
34	443	.25	1/20-120/1	5,6,8	IBH	T
35	133	.125	1/20-120/1	5,6,8	IBH	T
36	501	.25	1/20-120/1	5,6,8	IBH	T
37	300	.25	1/20-120/1	5,12	IBS	T
38	674	.25	1/20-120/1	6,8	IBS	T
39	1165	.25	1/20-120/1	6,9	IBS	T
40	926	.125	1/20-120/1	6,9	IBS	T
41	973	.25	1/20-120/1	6,9	IBS	T
42	973	.125	1/20-120/1	6,8	IBS	T
43	400	.125	1/20-120/1	11	IBH	M
44	400	.125	1/20-120/1	11	IBH	M
45	443	.25	1/20-120/1	5,6,8	IBS	T
46	192	.25	1/20-120/1	5,6,8	IBS	T
47	192	.25	1/20-120/1	5,6,8	IBS	T
48	192	.25	1/20-120/1	5,6,8	IBS	T
49	192	.25	1/20-120/1	5,6,8	IBS	T
50	192	.25	1/20-120/1	5,6,8	IBS	T
51	400	.125	1/20-120/1	11	IBH	M
52	186	.25	1/20-120/1	5,6,8	IBH	T
53	186	.25	1/20-120/1	5,6,8	IBH	T
54	443	.25	1/20-120/1	6,8	IBS	T
55	400	.125	1/20-120/1	11	IBH	M
56	400	.125	1/20-120/1	11	IBH	M
57	400	.125	1/20-120/1	11	IBH	M
58	443	.25	1/20-120/1	6,8	IBS	T
59	186	.25	1/20-120/1	5,6,8	IBH	T
60	186	.25	1/20-120/1	5,6,8	IBH	T
61	400	.125	1/20-120/1	11	IBH	M
62	186	.25	1/20-120/1	5,6,8	IBH	T
63	186	.25	1/20-120/1	5,6,8	IBH	T
64	411	.25	1/20-120/1	6,8	IBS	T
65	418	.25	1/20-120/1	5,6,7	IBH	CAN WASH
66	400	.125	1/20-120/1	11	IBH	M
67	400	.125	1/20-120/1	11	IBH	DELETED
68	186	.25	1/20-120/1	5,6,8	IBH	T
69	400	.125	1/20-120/1	11	IBH	M
70	445	.25	1/20-120/1	6,8	IBS	T
71	400	.125	1/20-120/1	11	IBH	M
72	443	.25	1/20-120/1	6,8	IBS	T
73	400	.125	1/20-120/1	11	IBH	M
74	416	.25	1/20-120/1	6,8	IBS	T
75	400	.125	1/20-120/1	11	IBH	M
76	416	.25	1/20-120/1	6,8	IBS	T
77	400	.125	1/20-120/1	11	IBH	M
78	400	.125	1/20-120/1	1,5	IA-B	CORRIDOR
79	1334	.125	1/20-120/1	1,5	IB-C	CORRIDOR
80	1334	.125	1/20-120/1	1,5	IB-D	CORRIDOR
81	1334	.125	1/20-120/1	1,5	IB-E	CORRIDOR
82	600	.125	1/20-120/1	1,5	IBS(WH/HS)	CORRIDOR
83	600	.125	1/20-120/1	1,5	IBS(WH/HS)	CORRIDOR
84	1276	.125	1/20-120/1	1,5	IBS(WH/HS)	CORRIDOR
85	1276	.125	1/20-120/1	1,5	IBS(WH/HS)	CORRIDOR
86	2450	.125	2-400/3	2,5	IBH	CORRIDOR
87	5425	.125	2-400/3	2,5	IBH	DELETED
88	1200	.25	1/20-120/1	1,5	IBS	CORRIDOR
89	1200	.25	1/20-120/1	1,5	IBS	CORRIDOR
90	1500	.25	1/20-120/1	1,5	IBS	CORRIDOR
91	1500	.25	1/20-120/1	1,5	IBS	CORRIDOR
92	1500	.25	1/20-120/1	1,5	IBS	CORRIDOR
93	950	.25	1/20-120/1	5,6,7	IBH	TUNNEL
94	1334	.125	1/20-120/1	1,5	IBS	DELETED
95	260	.125	1/20-120/1	1	IBS	LAUNDRY
96	260	.125	1/20-120/1	1	IBS	LAUNDRY
97	443	.25	1/20-120/1	5,6,8	IBH	T
98	443	.25	1/20-120/1	5,6,8	IBH	T
99	443	.25	1/20-120/1	5,6,8	IBH	T
100	400	.25	1/20-120/1	5,6,8	IBS	T

WINTER VENTILATION FAN SCHEDULE

TAG NO.	CFM	S.P.	H.W. COIL MAX VEL	FILTER (QTY) SIZE	HGT. LOAD (MBH)	EWT. (°F) (MAX)	WATER FLOW (GPM)	ELEC. DATA HP-V/F/HZ
WVF-1AS	1080	0.75	800 FPM	(1) 24x25x2	32.3	180	2.5	1/2-120/1/60
IBN	1590			(2) 16x25x2	52.0		4.0	
IBS	1730			(2) 16x25x2	56.6		4.8	
ICN	1010			(1) 20x25x2	33.2		2.5	
ICN	1450			(2) 16x25x2	47.5		3.0	
2CN	1351			(2) 16x20x2	44.3		3.0	
2CS	1400			(2) 16x20x2	45.9		3.0	
IDN	1100			(1) 20x25x2	36.0		2.5	
IDN	1610			(2) 16x25x2	53.0		3.5	
2DS	1310			(2) 16x20x2	43.0		3.0	
3ES	2250			(2) 20x25x2	73.8		4.0	34-120/1/60
IFN	1420			(2) 16x20x2	46.5		3.0	
IFN	1440			(2) 16x20x2	46.5		3.0	
2FN	1390			(2) 16x20x2	47.1		3.0	
2FS	1370			(2) 16x20x2	45.0		3.0	
16N	1390			(2) 16x20x2	45.4		3.0	
16S	1410			(2) 16x20x2	46.1		3.0	
26N	1410			(2) 16x20x2	46.1		3.0	
1HN	150		DELETED	(1) 24x24x2	37.8		3.0	
1HS	230			(1) 24x24x2	40.1		3.0	
2HN	110			(1) 20x25x2	36.7		2.5	
2HS	170			(1) 20x25x2	39.4		2.5	
1NN	150			(1) 20x25x2	37.4		2.5	
1NS	160			(1) 20x25x2	38.0		2.5	
28S	1270			(1) 24x24x2	41.3		3.0	1/2-120/1/60

NOTE - ALL WVF COILS HAVE A MAXIMUM WATER P.D. OF 15 FEET AND MAX. A.P.D. OF 15 IN. W.G. NO ELECTRICAL DISCONNECT REQUIRED ON WVF FANS.

HEAT EXCHANGER NOTES:
 1. HE-1 AND HE-2 SHALL BE PROVIDED UNDER THE PLUMBING WORK.
 2. HE-3 SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 a. A MOUNTING SADDLE.
 b. ALL CONNECTIONS 4" AND LARGER SHALL BE FLANGED. SMALLER CONNECTIONS MAY BE THREADED.
 c. INSULATION STOP PLATES AT EACH REMOVABLE HEAD TO ALLOW SERVICES WITHOUT REINSULATING.

HEAT EXCHANGER SCHEDULE

NO.	HE-1	HE-2	HE-3
SERVICE	DOM. H.W.	DOM. H.W.	PALE HEAT
TUNNEL LOCATION	BDD-B	BDS-E	BET. F & G
TUBE WATER GPM/FT. HD.	38/4.8	20/1.3	64/7.18
STEAM (#/HE - PSIG)	133B-10	62S-10	8960-10
CAPACITY, OUTPUT (MBH)	133B	600	8602
WATER TEMP. (IN/OUT)	50° F/120° F	120° F/180° F	185° F/180° F
NO. PASSES/TUBE VEL.	4 / 6.0 FPS	4 / 3.3 FPS	2 / 5.0 FPS
FOULING FACTOR (TUBE/SHELL)	.0005 / .0005	.0005 / .0005	.0005 / .0005
SHELL SIZE (DIA. X LENGTH)	6" X 48"	6" X 48"	18" X 60"
MAT'L TUBES/SHELL	CU / STEEL	CU / STEEL	CU / STEEL

PRESSURE REDUCING STATION SCHEDULE

SYMBOL	PRV #1	PRV #2	PRV #3
SERVICE	STEAM	STEAM	STEAM
ARRANGEMENT	SINGLE	SERIES	SINGLE
TOTAL CAP. LB./HR. (4)	133B	8960	62S
INLET PRESS. (PSIG)	100 PSIG	100 PSIG	100 PSIG
INTERMEDIATE PRESS. (PSIG)	-	65 PSIG	-
OUTLET PRESS. (PSIG)	10 PSIG	15 PSIG	10 PSIG
RELIEF VALVE LB./HR. NO. 1	133B	8960	62S
" " " NO. 2	-	8960	-
NOTES	1,2,4	1,3,4	1,2,4

NOTES:
 1. PROVIDE STRAINERS & RELIEF VS' AS PARTS OF PRV STATIONS.
 2. THE PRESSURE REGULATOR VALVE SHALL SENSE DOWNSTREAM PRESSURE & TEMPERATURE.
 3. PROVIDE 2 VALVES PIPED IN PARALLEL, WITH APPROX. 3/4" CAPACITIES.
 4. TOTAL CAPACITIES LISTED ARE AT FINAL (LOW) PRESSURE RATING.

EXHAUST FAN NOTES

1. SIDEWALL CENTR., BDD, BS, IG (MAX. TIP SPEED = 3720 FPM).
 2. UPBLAST, ROOF MOUNTED ON PREFAB CURB, DISCONNECT, BIRDSCREEN, BACKDRAFT DAMPER.
 3. UPBLAST, BASE MOUNTED BELT DRIVE.
 4. CEILING MOUNTED FAN WITH BACKDRAFT DAMPER.
 5. PROVIDE DISCONNECT SWITCH.
 6. INLINE CENTRIFUGAL EXHAUSTER WITH BACKDRAFT DAMPER, VIBRATION ISOLATORS
 7. INLET GUARD
 8. PROVIDE ROOF CAP WITH MAX 900 CFM @ 600 FPM.
 9. PROVIDE ROOF CAP WITH MAX 1250 CFM @ 600 FPM.
 10. PROVIDE ROOF CAP WITH MAX 1800 CFM @ 600 FPM.
 11. DIRECT DRIVE PROPELLER FAN.
 12. BELT DRIVE, WALL COLLAR, BDD, IG (MAX. TIP SPEED = 5200 FPM)
 M = MECHANICAL, T = TOILET, BDD = BACKDRAFT DMFR., BS = BIRDSCREEN, IG = INLET GUARD

EXHAUST FAN SCHEDULE (CONT.)

EF-101	445	.25	1/20-120/1	5,6,8	1HN	T
102	443	.25	1/20-120/1	5,6,8	1HS	T
103	186	.25	1/20-120/1	6,8	2DS	T
104	1334	.125	1/20-120/1	1	26-E	CORRIDOR
105	1900	.25	1/20-120/1	5,6,7	1EN	TUNNEL
106	2000	.25	1/4-120/1	5,12	IDN	M

PUMP SCHEDULE

TAG NO.	SERVICE	TYPE	GPM(EA)	HEAD	HP	RPM	NOTES
P-CH-1	CH. W.	DSBM	580	34'	7.5	1750	1
P-CH-3	CH. W.	IN-LINE	55	13'	0.5	1750	1
P-CD-112	COND. W.	DSBM	916	50' @ 52'	20	1150	1
P-PC-1	CH. W.	"	1365	30'	15	1150	1,3
P-PC-2	"	"	410	10'	2	1150	3
P-C-AB	"	END SUCTION	121	55'	5	1750	7
P-C-C	"	IN-LINE	155	57'	5	1750	7
P-C-D	"	"	111	65'	5	1750	7
P-C-E	"	"	111	57'	5	1750	7
P-C-F	"	"	147	57'	5	1750	7
P-C-G	"	"	145	62'	5	1750	7
P-C-H	"	"	155	60'	5	1750	7
P-C-J	"	"	83	49'	3	1750	7
P-DT-AB	DUAL-T	"	181	53'	10	1750	7
P-FH	H.W. PRL	DSEM	647	53'	15	1750	1,7
P-H-AB	H.W. SEC	IN-LINE	76	63'	5	1750	7
P-H-C	"	"	68	62'	5	1750	7
P-H-D	"	"	57	57'	5	1750	7
P-H-E	"	"	22	61'	1.5	1750	7
P-H-F	"	"	64	59'	2	1750	

