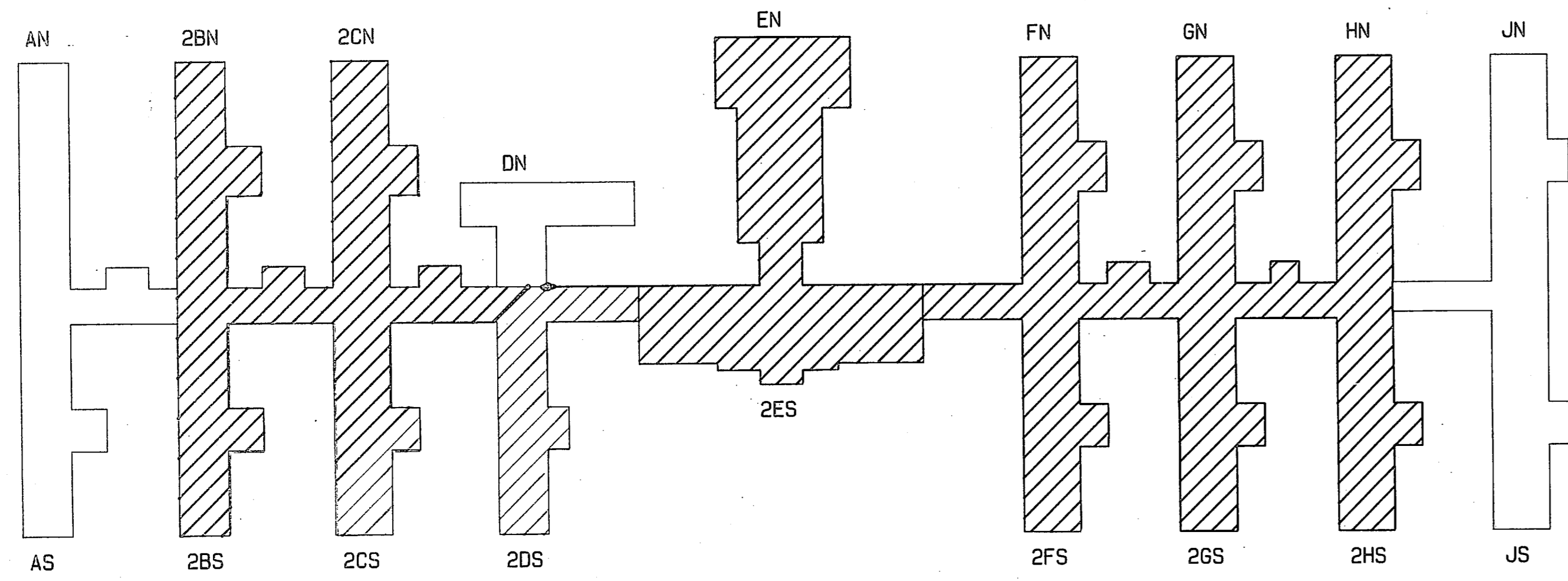
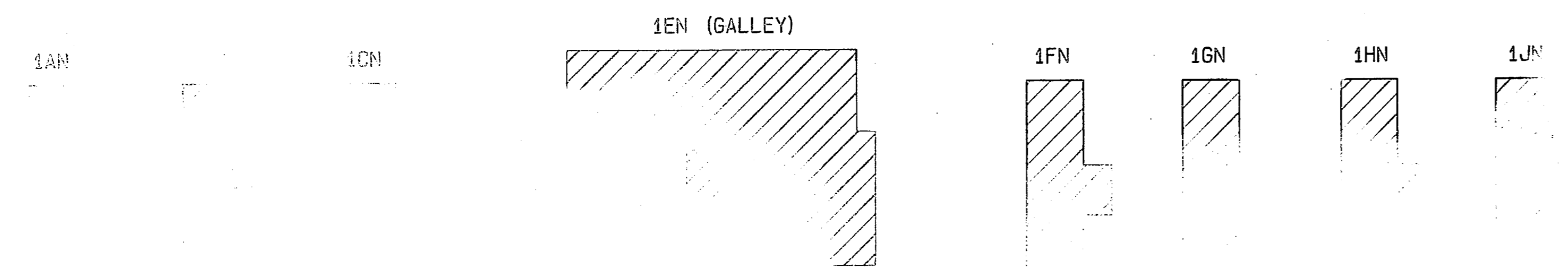


THIRD FLOOR PLAN
NOT TO SCALE



SECOND FLOOR PLAN
NOT TO SCALE



PLUMBING LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
---	W.	NEW WASTE OR SANITARY SEWER PIPING
---	V.	NEW WASTE VENT PIPING
---	CW	NEW DOMESTIC COLD WATER PIPING
---	HW	NEW DOMESTIC HOT WATER PIPING
---	HWR	NEW DOMESTIC HOT WATER RETURN PIPING
-EW-	EW	EXISTING WASTE OR SANITARY SEWER PIPING
-EV-	EV	EXISTING WASTE VENT PIPING
-ECW-	ECW	EXISTING DOMESTIC COLD WATER PIPING
-EHW-	EHW	EXISTING DOMESTIC HOT WATER PIPING
-EHWR-	EHWR	EXISTING DOMESTIC HOT WATER RETURN PIPING
-VA-	VA	EXISTING MEDICAL VACUUM PIPING
-A-	A	EXISTING MEDICAL COMPRESSED AIR PIPING
-O-	O	EXISTING MEDICAL OXYGEN PIPING
-F-	F	EXISTING FIRE PROTECTION PIPING
▽	GV, EGV	NEW, OR EXISTING, GATE VALVE
∇	CV, ECV	NEW, OR EXISTING, CHECK VALVE
⊥	HB, EHB	NEW, OR EXISTING, HOSE BIBB
⊥	FD, EFD	NEW, OR EXISTING, FLOOR DRAIN
⊥	FS, EFS	NEW, OR EXISTING, FLOOR SINK
⊥	CO, ECO	NEW, OR EXISTING, FLOOR CLEANOUT
⊥	CO, ECO	NEW, OR EXISTING, CRAWL SPACE
⊥	VTR, EVTR	NEW, OR EXISTING, VENT THROUGH ROOF
⊙		SYMBOL INDICATES CONNECTION TO EXISTING PIPE AT THIS LOCATION
---	EX. OR EXIST.	EXISTING



PLUMBING DEMOLITION NOTES

- REFER TO THE NEW WORK PLUMBING PLANS TO DETERMINE WHICH COLD WATER, HOT WATER, HOT WATER RECIRCULATING AND SANITARY SEWER LINES ARE TO REMAIN IN TACT.
- LEAVE ALL EXTERIOR HOSE BIBBS IN OPERATING ORDER.
- RETAIN ALL DOMESTIC CW, HW, HWR, WASTE AND VENT PIPING. SEE NEW WORK PLANS FOR EXISTING PIPING TO BE CAPPED.
- ALL PIPING CONCEALED IN WALLS THAT ARE TO BE REMOVED SHALL BE DEMOLISHED. OTHERWISE, IT SHALL BE REROUTED AS SHOWN ON THE PLANS.
- PIPING THAT IS CONCEALED IN EXISTING WALLS THAT ARE TO REMAIN IN TACT SHALL BE TREATED AS FOLLOWS:
 - a-CAP THE PIPING SO THAT THE OPENING IN THE WALL CAN BE PATCHED. REMOVE ALL SHARP EDGES.
 - b-LEAVE PIPING SECURED INTO THESE WALLS. PATCH ALL HOLES RESULTING FROM THIS WORK.
 - c-THE PLUMBING CONTRACTOR SHALL REFER TO ARCH. SHEET A-29 THRU A-42 FOR ROOM FINISH SCHEDULES TO IDENTIFY TYPE OF MATERIAL AND FINISH FOR PATCH REQUIRED IN WALLS, FLOORS AND CEILING.
- ALL PIPING SHOWN ON THE DEMOLITION PLANS SHEETS P-4 THRU P-9 SHALL BE REMOVED UNLESS OTHERWISE NOTED. ASSOCIATED HANGERS, SUPPORTS, PIERS, ETC. USED WITH PIPING TO BE REMOVED SHALL ALSO BE REMOVED.

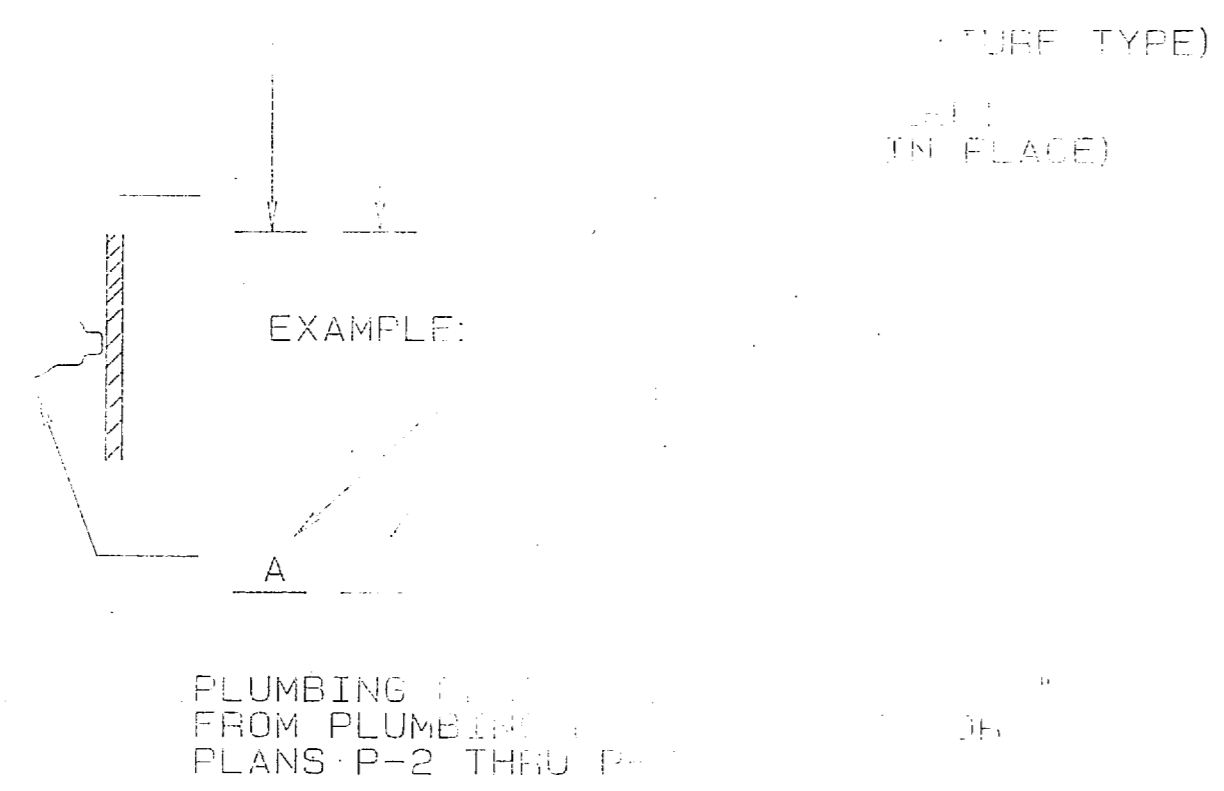
PLUMBING DEMOLITION SCHEDULE

PART I	FIXTURE DESCRIPTION
A	WATER CLOSET-FLOOR MOUNTED
B	WATER CLOSET-WALL HUNG
C	WATER CLOSET-TANK TYPE
D	LAVATORY-WALL HUNG
E	LAVATORY-PEDASTAL TYPE
F	LAVATORY-PEDASTAL TYPE (KNEE CONTROL)
G	ELECTRIC WATER COOLER-FLOOR MOUNTED
H	SINK
I	SINK (STAINLESS STEEL)
J	MOP SINK-RECESSED
K	BED PAN WASHER
L	SHOWER
M	BATHTUB
N	NURSE'S STATION CABINET SINK
O	URINALS
P	SERVICE SINK-FLOOR MOUNTED
Q	UTILITY SINK
R	SERVICE SINK W/FLUSH VALVE
S	SINK (CHEMICAL)

REMOVE AND DISPOSE OF ALL FIXTURES THAT ARE DESIGNATED AS A SINGLE LETTER. REMOVE ALL ASSOCIATED PIPING TO THESE FIXTURES. SEE PLUMBING DEMOLITION NOTES.

THE FIRST SUFFIX SHALL BE "L"

THE SECOND SUFFIX MAY BE "R" IF THE FIXTURE SHALL BE LEFT IN PLACE FOR FUTURE CLEANING AND REUSE.



KEY NOTE SCHEDULE

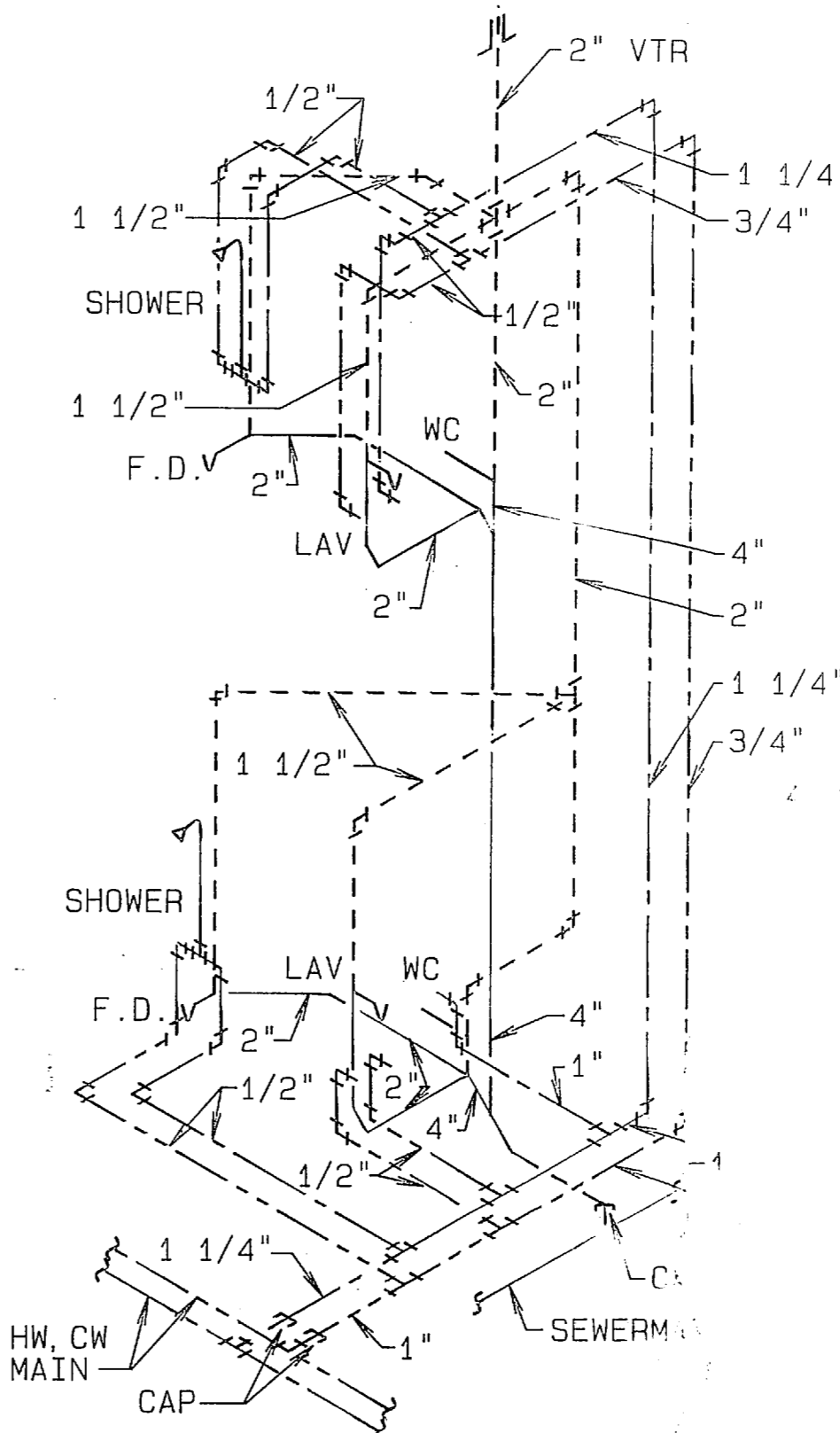
- BATHTUB SHALL BE THOROUGHLY CLEANED.
- LAVATORY, WALL HUNG, TO BE THOROUGHLY CLEANED.
- WATER CLOSET, FLOOR MOUNTED, TO BE THOROUGHLY CLEANED.
- SHOWER SHALL BE THOROUGHLY CLEANED.
- ELECTRIC DRINKING FOUNTAIN, NEW, SEE FIXTURE P-6 ON FIXTURE SCHEDULE. CONNECT NEW P-6 TO EXISTING PIPING AND PROVIDE NEW PIPING REQUIRED TO MAKE THIS CONNECTION.
- SHOWER, NEW, SEE FIXTURE P-4 ON FIXTURE SCHEDULE. CONNECT NEW P-4 TO EXISTING PIPING AND PROVIDE NEW PIPING REQUIRED TO MAKE THIS CONNECTION.
- SINK, TO BE THOROUGHLY CLEANED.
- URINAL, NEW, SEE FIXTURE P-2 ON FIXTURE SCHEDULE. CONNECT NEW P-2 TO EXISTING PIPING AND PROVIDE NEW CARRIER, AND PIPING TO MAKE THIS CONNECTION.

GENERAL NOTES

- PROVIDE A BRASS PLUG IN ALL EXISTING BRANCH WASTE LINES (EW) NOT TO BE REUSED. LINES TO BE PLUGGED SHALL ALWAYS BE PLUGGED AT THE MAIN WHEN POSSIBLE. REMOVE BRANCH LINE PIPING FROM THE POINT OF THE PLUG TO AN UPSTREAM LOCATION WHERE THE PIPE IS NO LONGER VISIBLE AND ACCESSIBLE. NO LONGER VISIBLE AND ACCESSIBLE SHALL HENCEFORTH BE DEFINED AS FOLLOWS:
 - 1. WITH-IN WALLS THAT ARE NOT TO BE REMOVED.
 - 2. WITH-IN CHASES THAT ARE NOT TO BE REMOVED OR REUSED FOR NEW PIPING.
 - 3. AS INTERPRETED BY THE CONTRACTING OFFICER WHERE ITEMS 1. AND 2. DO NOT APPLY.
 UNDER NO CIRCUMSTANCES SHALL ANY PIPING (EW, ECW, EHW, EHR, ETC.) BE LEFT IN PLACE ABANDONED IF IT IS IN CONFLICT WITH OTHER PIPING OR OTHER TRADES WORK.
- CAP ALL EXISTING COLD WATER BRANCH LINES (ECW) NOT TO BE REUSED. CAP PIPING AT TEE CONNECTIONS AT THE MAIN OR BRANCH LINE WHERE LAST ACTIVE FIXTURE IS CONNECTED. REMOVE BRANCH LINE PIPING FROM THE CAPPED LOCATION TO A DOWNSTREAM LOCATION WHERE THE PIPE IS NO LONGER VISIBLE AND ACCESSIBLE.
- CAP ALL EXISTING HOT WATER BRANCH LINES (EHW) NOT TO BE REUSED. CAP PIPING AT TEE CONNECTIONS AT THE MAIN OR BRANCH LINE WHERE LAST ACTIVE FIXTURE IS CONNECTED. REMOVE BRANCH LINE PIPING FROM THE CAPPED LOCATION TO A DOWNSTREAM LOCATION WHERE THE PIPE IS NO LONGER VISIBLE AND ACCESSIBLE.
- EXISTING HOT WATER RECIRCULATING LINES (EHR) SHALL BE REMOVED WHERE EXISTING HOT WATER SERVICE IS REMOVED BUT MAIN LINE RECIRCULATION SHALL NOT BE IMPAIRED.
- MAINTAIN THE INTEGRITY OF ALL SOIL OR WASTE LINE VENT PIPING WHERE SOIL LINE REMAINS ACTIVE. WHERE FIXTURES AND THEIR SOIL LINES HAVE BEEN REMOVED, AND THE VENT PIPE SERVES NO USEFUL PURPOSE, VENT PIPING SHALL BE REMOVED TO A POINT WHERE IT IS NO LONGER VISIBLE AND ACCESSIBLE. REMOVE INACTIVE VENT PIPING IN THE ATTIC AND THRU THE ROOF. ROOF SHALL BE PATCHED WATERTIGHT AND SHALL MATCH EXISTING.
- MAINTAIN THE INTEGRITY OF ALL EXISTING COLD WATER, HOT WATER, AND HOT WATER RECIRCULATING MAINS THAT ARE TO REMAIN ACTIVE. WHERE FIXTURES ARE TO BE REMOVED AND NOT TO BE REINSTALLED, CAP THE BRANCH LINES AT THE MAIN AND REMOVE INACTIVE PIPE TO A POINT WHERE IT IS NO LONGER VISIBLE AND ACCESSIBLE.
- THE CONTRACTOR SHALL REFER TO THE EXISTING CONDITION DRAWINGS INCLUDED AND FOLLOWING THE PLUMBING DRAWINGS. THE EXISTING CONDITION DRAWINGS SHALL BE USED TO COORDINATE AND LOCATE EXISTING PIPING. ESTIMATE AMOUNTS OF PIPING TO BE REMOVED AND TO IDENTIFY PIPING SHOWN OR INDICATED ON THESE PLUMBING DRAWINGS P-1 THRU P-36.
- THE CONTRACTOR SHALL REMOVE THE 3" STRAINERS, GATE VALVES, AND PRESSURE REDUCING VALVES AND RECONNECT THIS LINE WITHOUT THE STRAINER AND PRESSURE REDUCING VALVE. A NEW 3" GATE VALVE SHALL BE PROVIDED FOR THIS LINE FOR ZONE CONTROL.
- THE CONTRACTOR SHALL REMOVE THE 2 1/2" STRAINERS, GATE VALVES, AND PRESSURE REDUCING VALVES AND RECONNECT THIS LINE WITHOUT THE STRAINER AND PRESSURE REDUCING VALVE. A NEW 2 1/2" GATE VALVE SHALL BE PROVIDED FOR THIS LINE FOR ZONE CONTROL.

Under "GENERAL NOTES" add:
 "10. Existing hot domestic water piping sizes not shown on the drawings, that must be provided with new insulation are listed below:

Piping Sizes (inches)	Linear Feet
0.5	110
0.75	2000
1	110
1.25	1800
1.5	150
2	660
3	340



EXISTING TOILET DIAGRAM (TYPICAL)

NO SCALE

FIXTURE CONNE

SYMBOL	DESCRIPTION
P-1	WATER CLOSET, FLOOR
P-1A	WATER CLST, WALL HUNG
P-2	URINAL
P-3	LAVATORY, WALL HUNG
P-3A	LAVATORY, COUNTER TOP
P-4	SHOWER
P-5	MOP RECEPTOR
P-6	ELECTRIC DRINKING FOUNTAIN

ASBESTOS REMOVE

- REFER TO THE PLUMBING REFERENCE DRAWINGS IN THE EXISTING BUILDINGS.
- ALL OF THE FOLLOWING TYPES OF PIPING HAVE BEEN INSULATED: COLD WATER, HOT WATER & HOT WATER CTR. PIPING.
- THE QUANTITY OF PIPING WHICH HAS ASBESTOS INSULATION IS AS FOLLOWS:

SIZE	COLD WATER	HOT WATER
0-3"	34,320	1,095 L.F.
4-6"	865 L.F.	
- THE QUANTITY OF PIPING WHICH HAS ASBESTOS INSULATION IN CRAWLSPACE IS 41,175 L.F. (COLD WATER).
- PIPING WITH ASBESTOS INSULATION ABOVE CEILINGS WHICH IS TO BE REMOVED SHALL BE IDENTIFIED AND THE REMOVAL OF ASBESTOS INSULATION FROM THE PIPING SHALL BE SEALED AS DESCRIBED IN "ASBESTOS MATERIALS" SECTION OF THE SPECIFICATIONS. *** 02080



1. Add HE-2 to the Heat Exchanger Schedule as follows:

No.	HE-2
Service	Dom. H.W.
Tunnel Location	Slide-5
Tube Water GPM/ft. Hd.	20/1.5
Steam (g/hr-psig)	625-10
Capacity Output (MMBtu)	600
Water Temp. (In/Out)	120°F/180°F
No. Passes/Tube Velocity	4/3.3 FPS
Fouling Factor (Tube/Shell)	.0005/.0005
Shell Size (Dia x length)	6" x 40"
Mat'l's (tube/shell)	Cu/Steel

Note 1 applies to HE-2 also.

2. Add pumps CP-2 and CP-3 to the Circulating Pump Schedule as follows:

Pump No.	Service	Type	GPM	Head	Motor
CP-2	.40" Water	Inline	10	16	1/6HP
CP-3	.180" Water	Inline	20	10	1/6HP

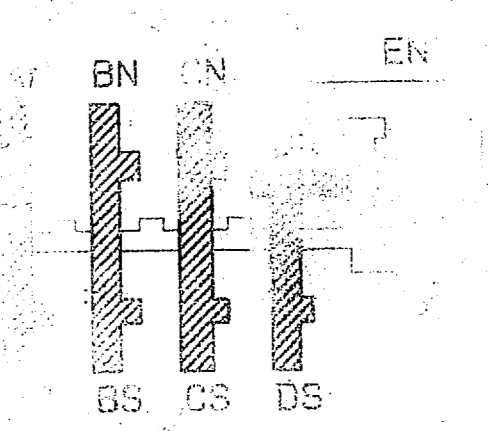
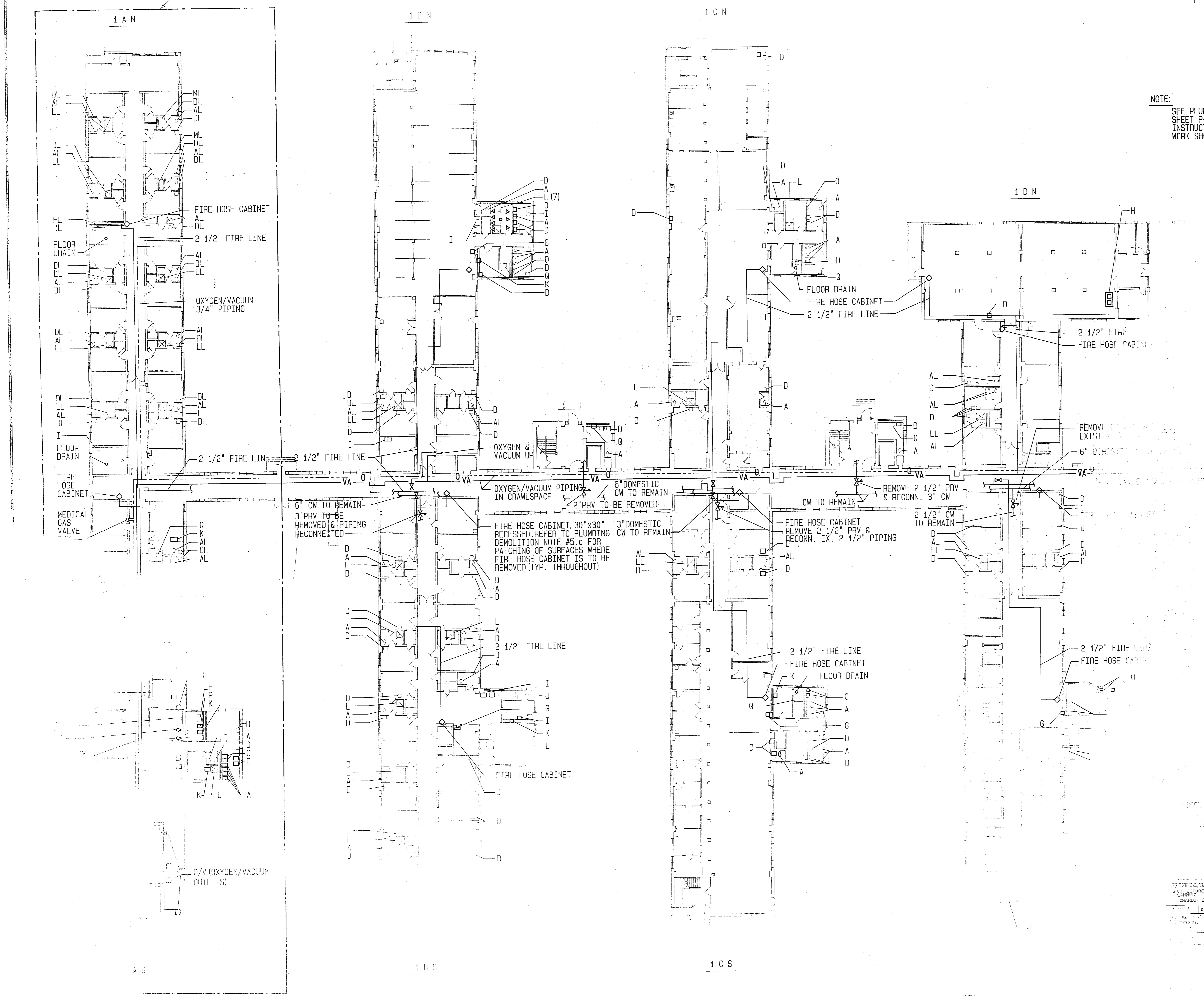
Notes 1, 2 and 3 shall apply to these pumps.



DEMOLITION AND RENOVATION OF 1A NORTH AND 1A SOUTH IS AN ADDITIVE TO THE BASE BID.

SYN	1
1	GREEN

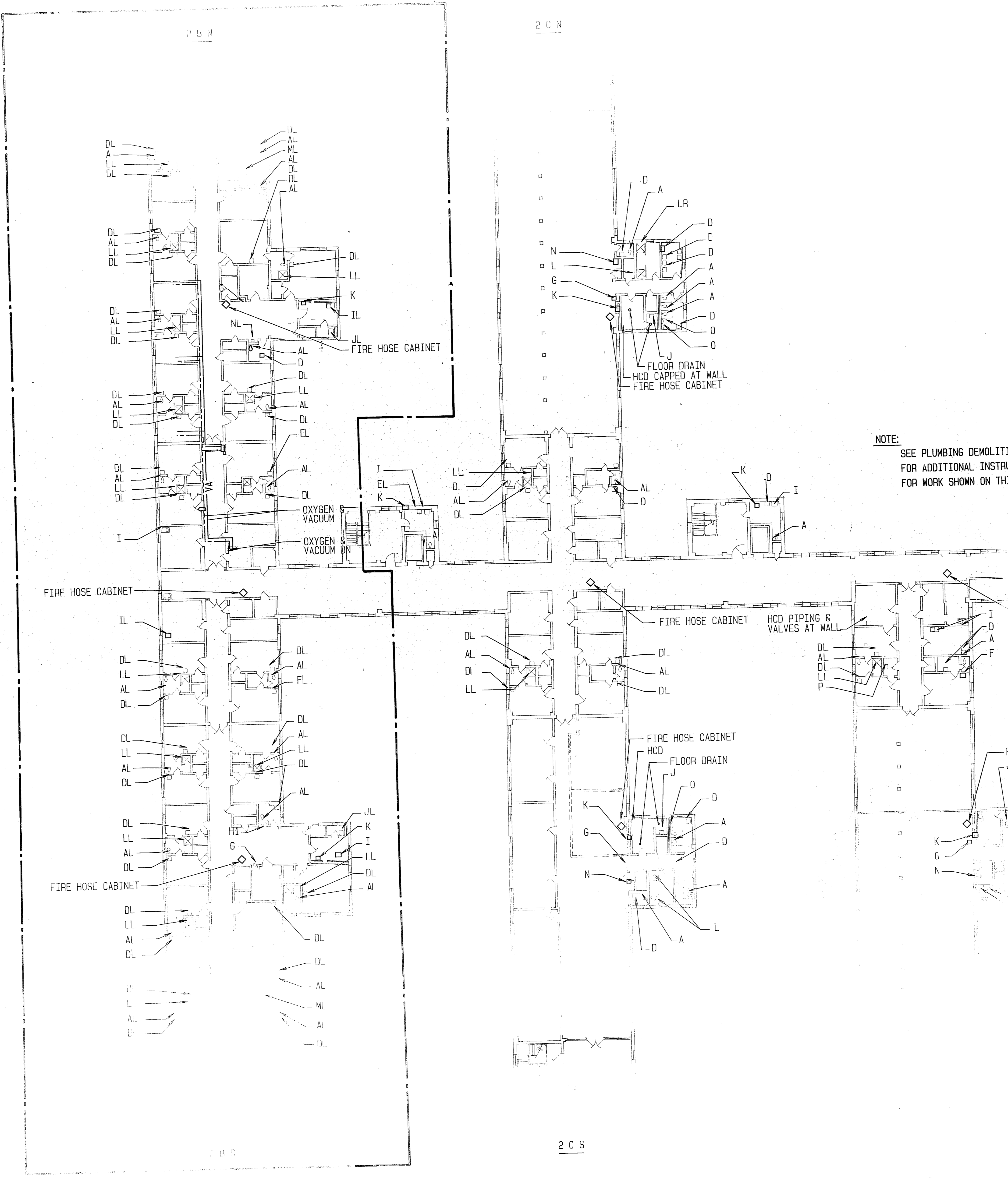
NOTE:
SEE PLUMBING SHEET P-3 FOR INSTRUCTION WORK SHOW



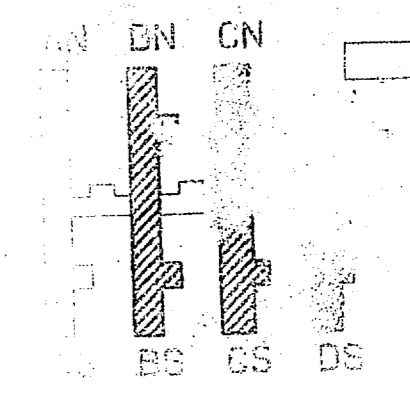
GREENE, WALTER
ARCHITECTURE
PLUMBING
CHARLOTTE, N.C.

STATION
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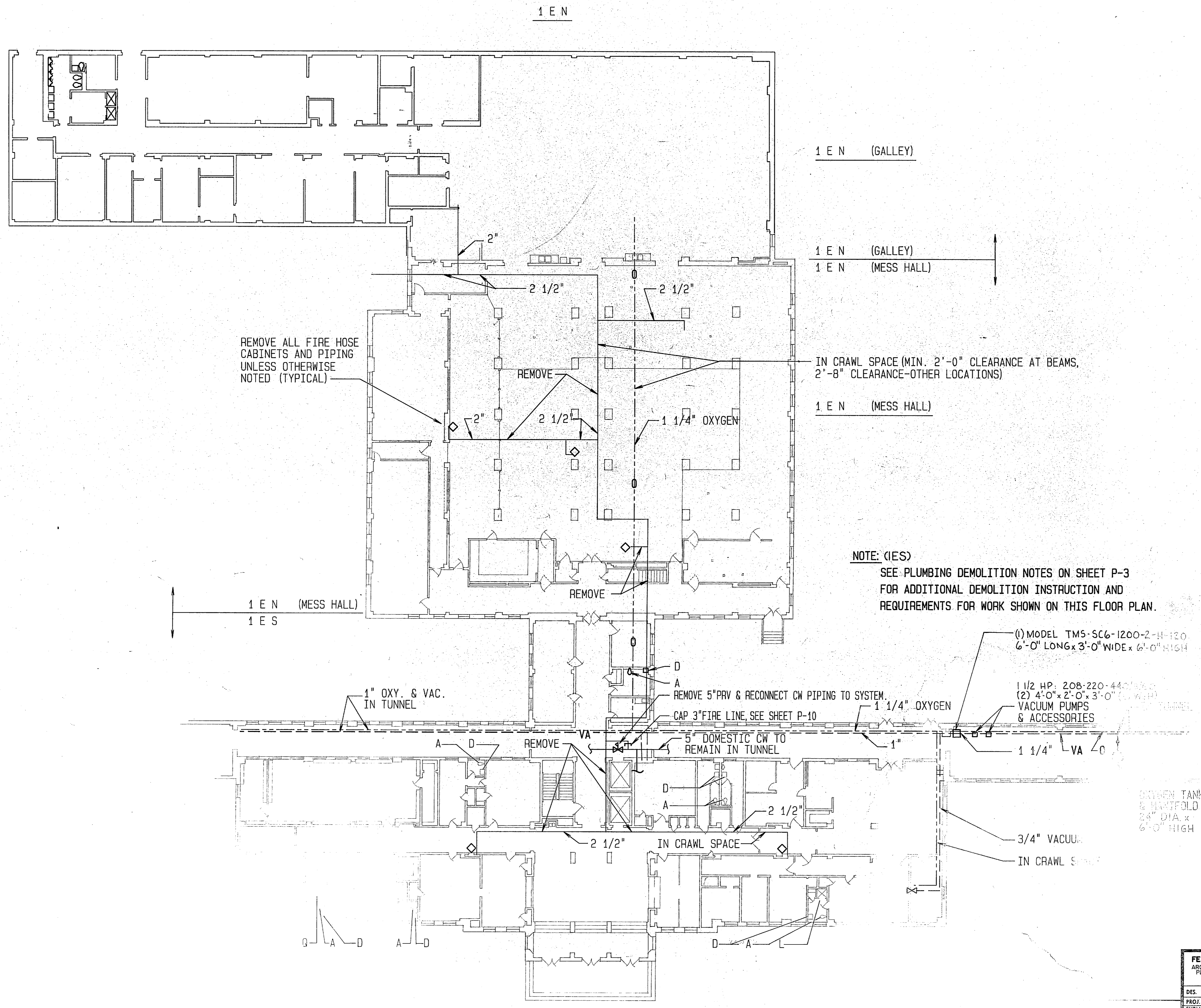


NOTE:
SEE PLUMBING DEMOLITION NOTES ON SHEET 101
FOR ADDITIONAL INSTRUCTION AND REVISIONS
FOR WORK SHOWN ON THIS FLOOR PLAN



DEPARTMENT OF
FIRE
STATION
PRIME

SYN	1
	1



REMOVE ALL FIRE HOSE CABINETS AND PIPING UNLESS OTHERWISE NOTED (TYPICAL)

1 E N (GALLEY)

1 E N (GALLEY)
1 E N (MESS HALL)

1 E N (MESS HALL)

1 E N (MESS HALL)
1 E S

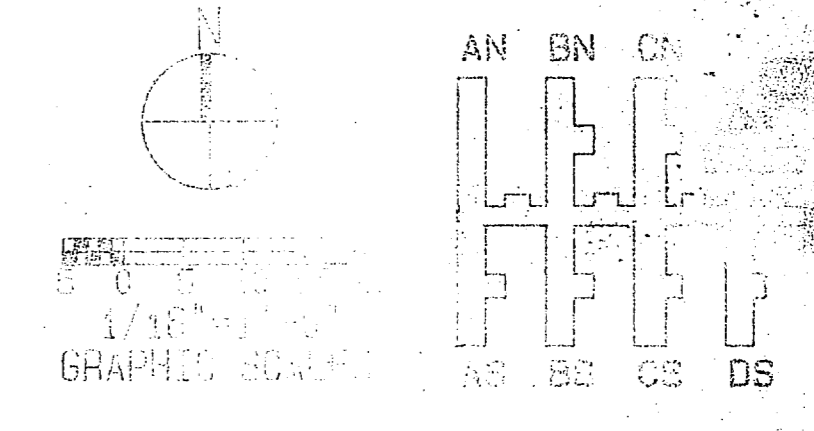
NOTE: (IES)
SEE PLUMBING DEMOLITION NOTES ON SHEET P-3 FOR ADDITIONAL DEMOLITION INSTRUCTION AND REQUIREMENTS FOR WORK SHOWN ON THIS FLOOR PLAN.

NOTE: REMOVE ONLY OXY AND FIRE PROTECTIVE AS INDICATED IN IEN. ALL SYSTEMS ARE TO BE RE IN IEN.

(1) MODEL TMS-SC6-1200-2-H-120
6'-0" LONG x 3'-0" WIDE x 6'-0" HIGH

1 1/2 HP: 208-220-440V
(2) 4'-0" x 2'-0" x 3'-0"
VACUUM PUMPS & ACCESSORIES

WATER TANK
8 INCHES DIA
24" DIA x 6'-0" HIGH

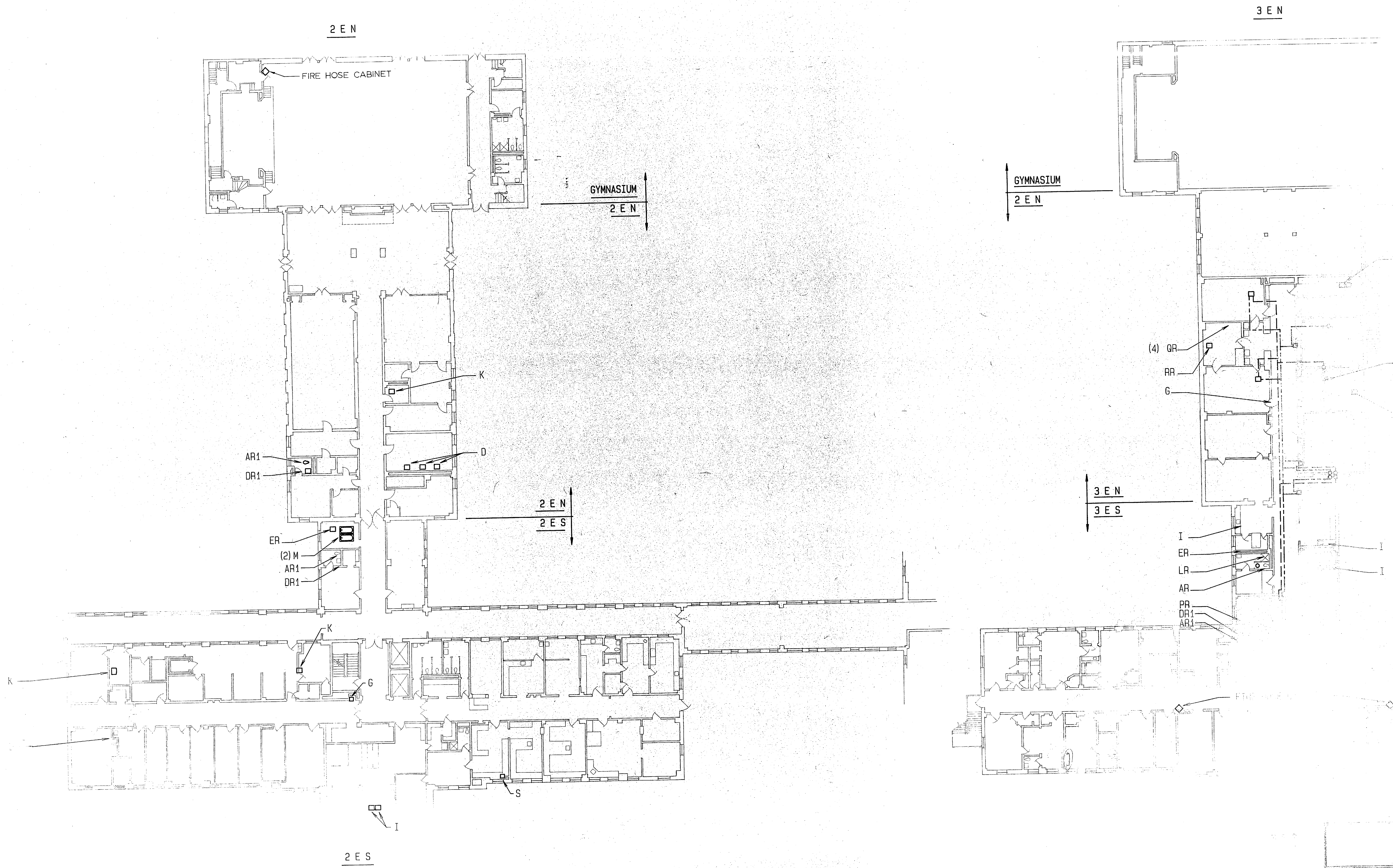


FEREBEE, WALTERS & ASSOCIATES		DEPARTMENT OF THE ARMY	
ARCHITECTURE	LANDSCAPE DESIGN	ATLANTA	
PLANNING	INTERIOR DESIGN	CONTRACTOR	
CHARLOTTE	NORTH CAROLINA	MARINE CORPS BASE, CAMP LEWIS, NORTH CAROLINA	
DES. W. M. DR. K. W. CH. E.		CONVERT HOSPITAL TO DIVISION HEADQUARTERS	
PROJ. MGR. C. O. CH. E.		BLDG	
SUBMITTED BY: Charles O. ...		CONTR. NO. 452470-	
FIRM MEMBER		SHEET	

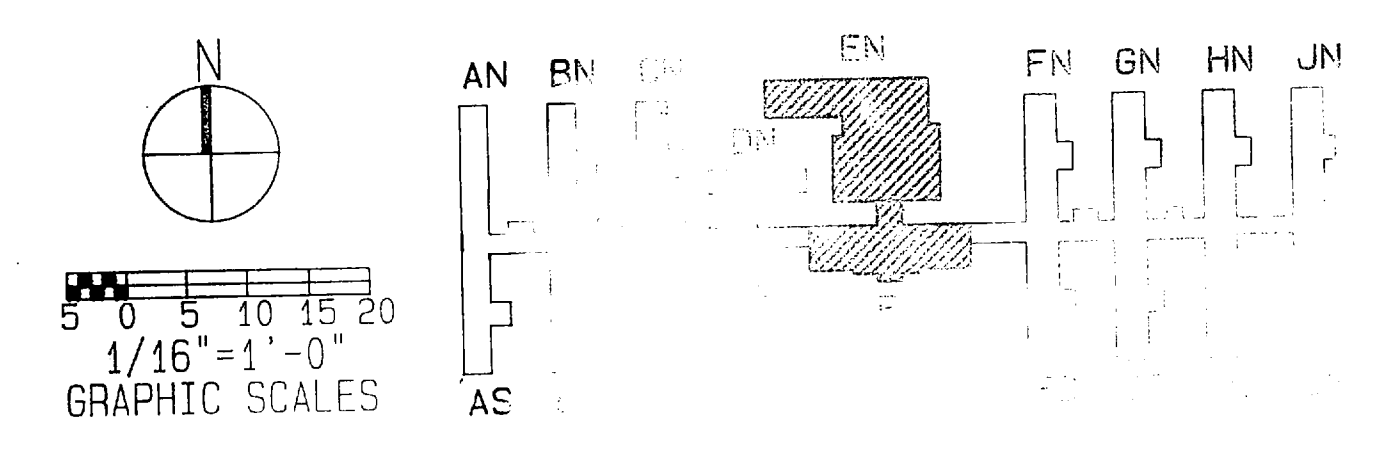
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SYN	
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NOTE:
SEE PLUMBING DEPT.
SHEET P-3 FOR ADDI.
INSTRUCTIONS AND DE
WORK SHOWN ON TH.

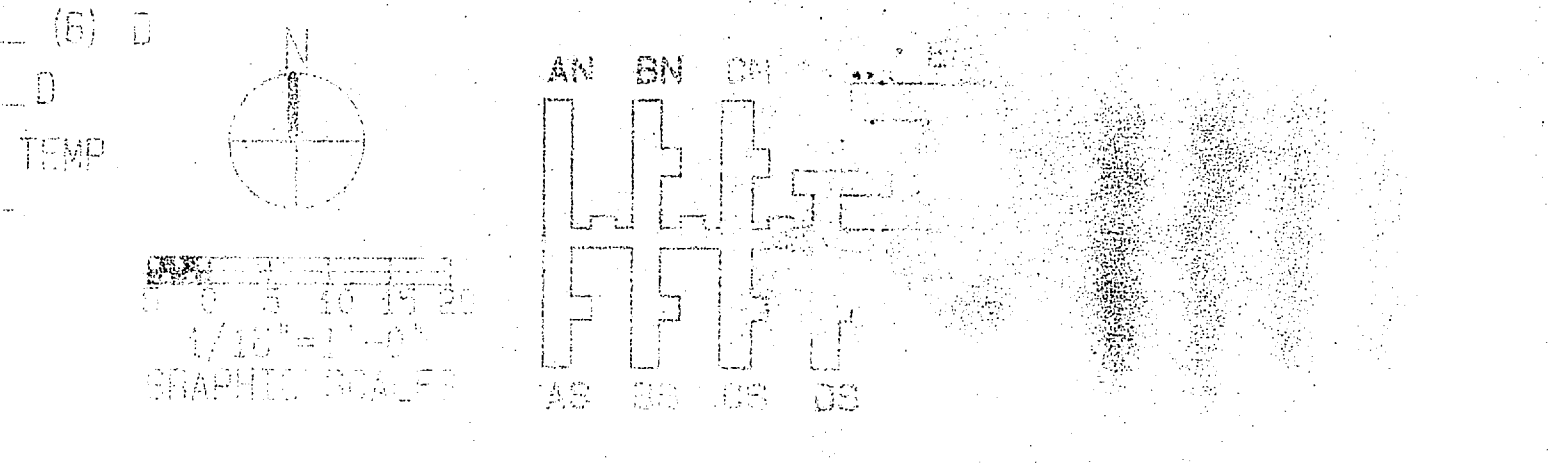
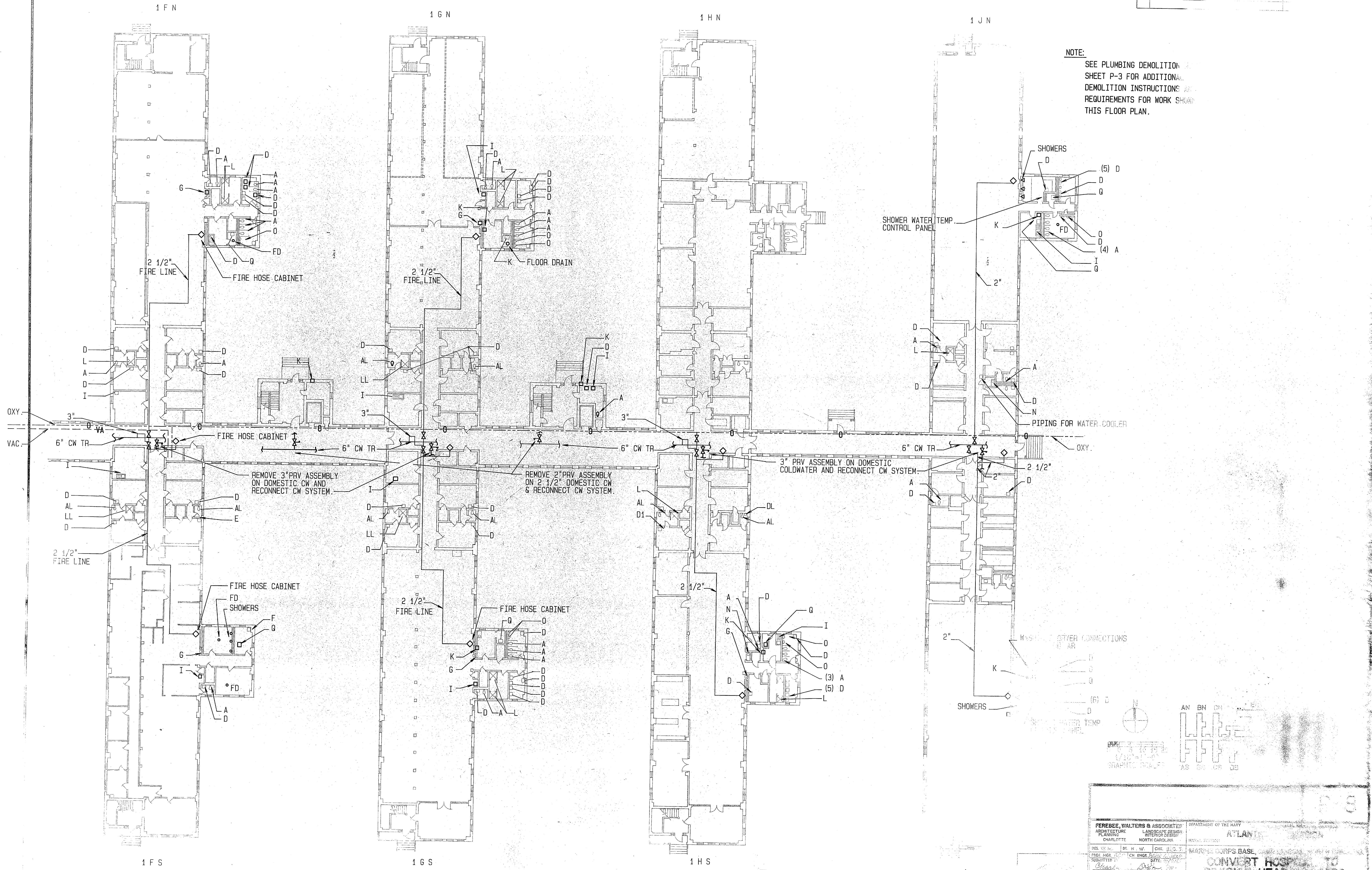


FURBER, WATERS & ASSOCIATES ARCHITECTS CHARLOTTE, N.C.		LANDSCAPE DESIGN INTERIOR DESIGN NORTH CAROLINA		REGISTERED TO THE STATE OF NORTH CAROLINA
DESIGNED BY DRAWN BY CHECKED BY DATE	ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE TEN ELEVEN TWELVE THIRTEEN FOURTEEN FIFTEEN SIXTEEN SEVENTEEN EIGHTEEN NINETEEN TWENTY	NANCY CORPS BLDG. CONVEYANCE DIVISION EMOLLY	PROJECT NO. 10111 SHEET NO. 1	



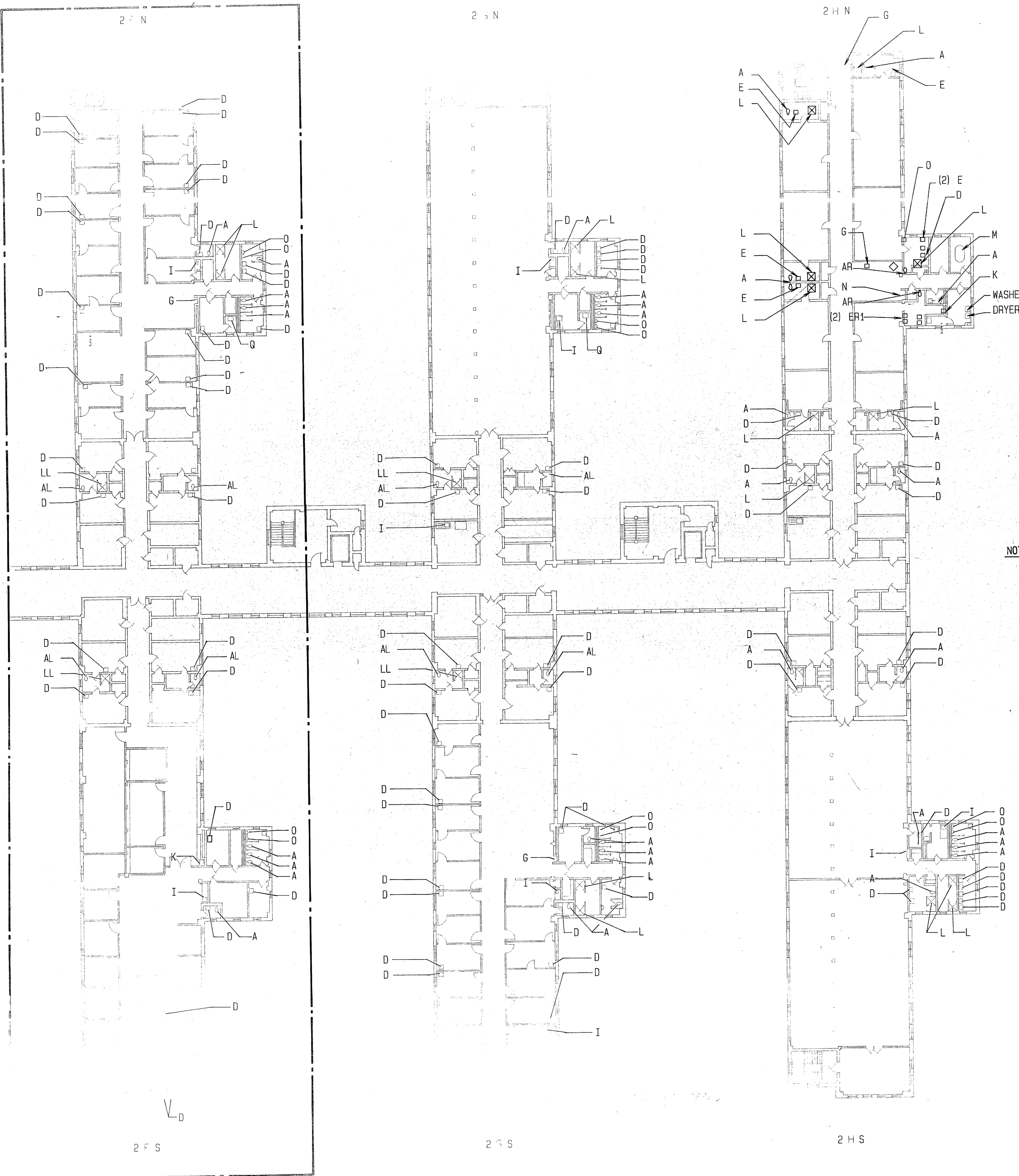
SYM	GENEZA

NOTE:
SEE PLUMBING DEMOLITION SHEET P-3 FOR ADDITIONAL DEMOLITION INSTRUCTIONS AND REQUIREMENTS FOR WORK SHOWN THIS FLOOR PLAN.

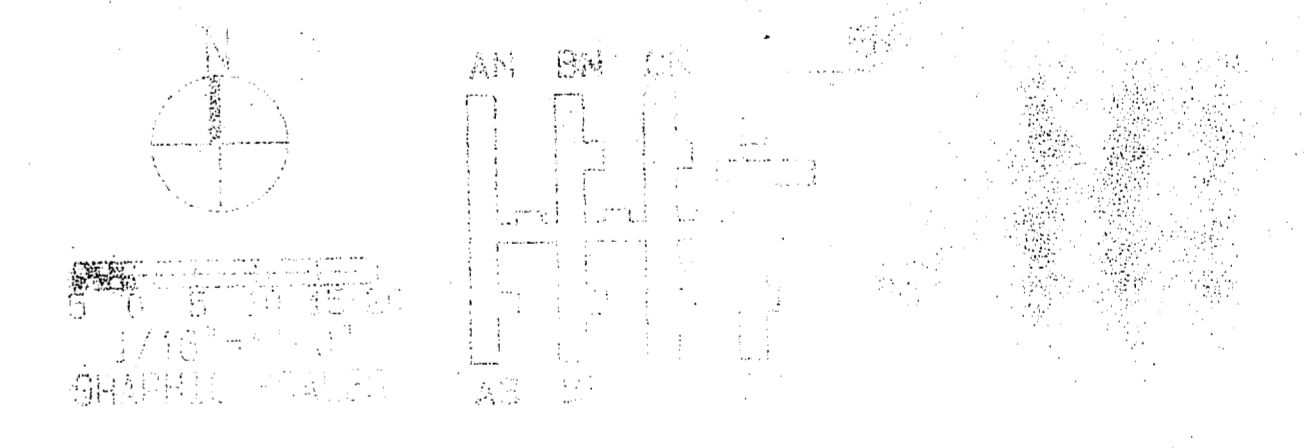


FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE, NORTH CAROLINA		DEPARTMENT OF THE NAVY ATLANTIC MARINE CORPS BASE CONVERT HOSPITAL TO DIVISION HEADQUARTERS	
DATE: _____ SUBMITTED BY: _____ TOTAL HOURS: _____ DATE: _____	DATE: _____ DATE: _____ DATE: _____	DATE: _____ DATE: _____ DATE: _____	DATE: _____ DATE: _____ DATE: _____

SYN	
1	SEE P-1 AL



NOTE:
SEE PLUMBING DEMOLITION NOTE ON SHEET P-3
FOR ADDITIONAL INSTRUCTIONS AND REQUIREMENTS
FOR WORK SHOWN ON THIS FLOOR PLAN.



FERRELL, WILSON & ASSOCIATES ARCHITECTS CHARLOTTE, N.C.	
DES. BY DRAWN BY CHECKED BY APPROVED BY	PROJECT NO. SHEET NO. DATE



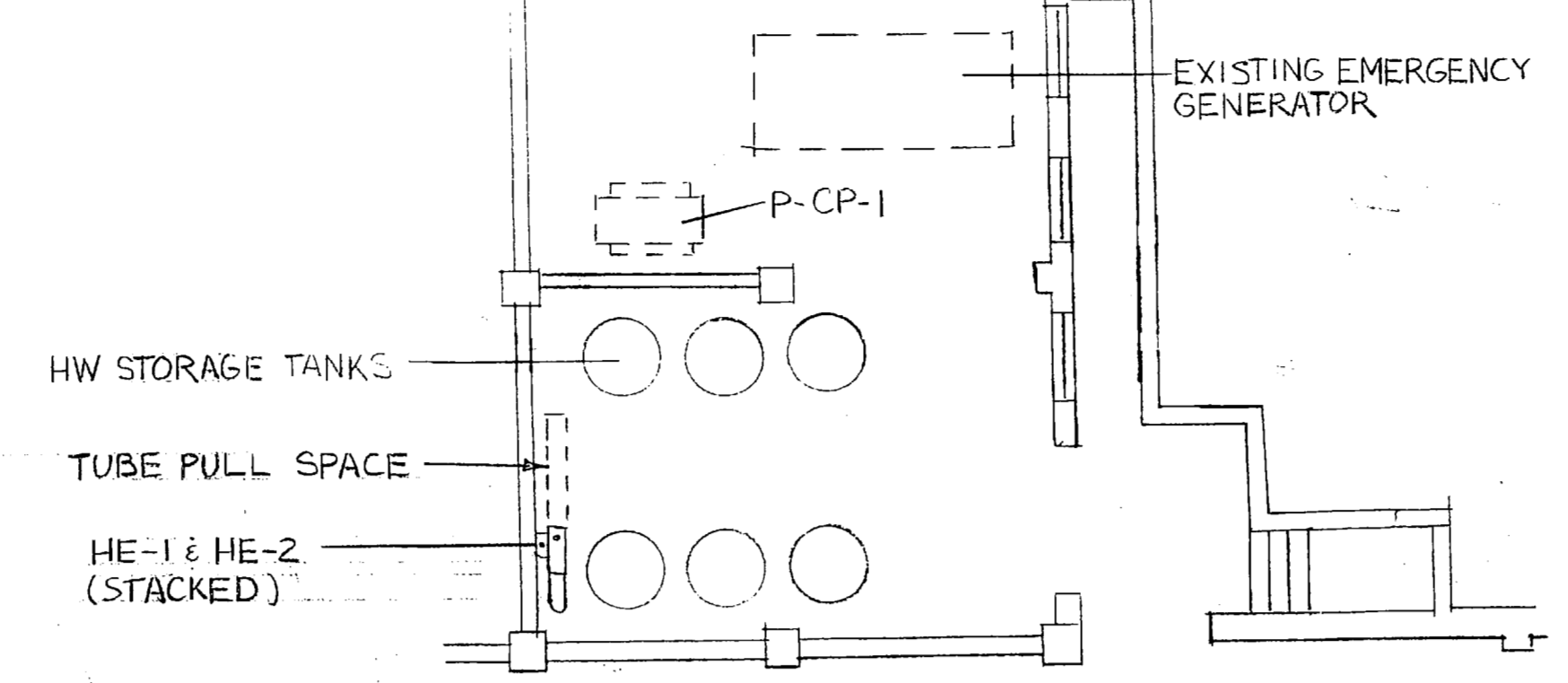
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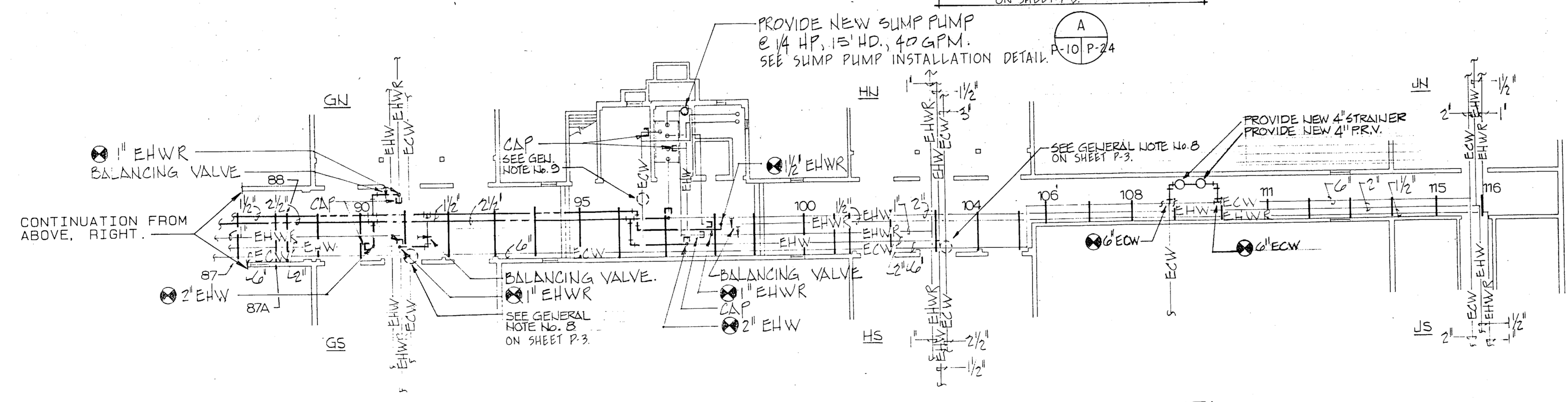
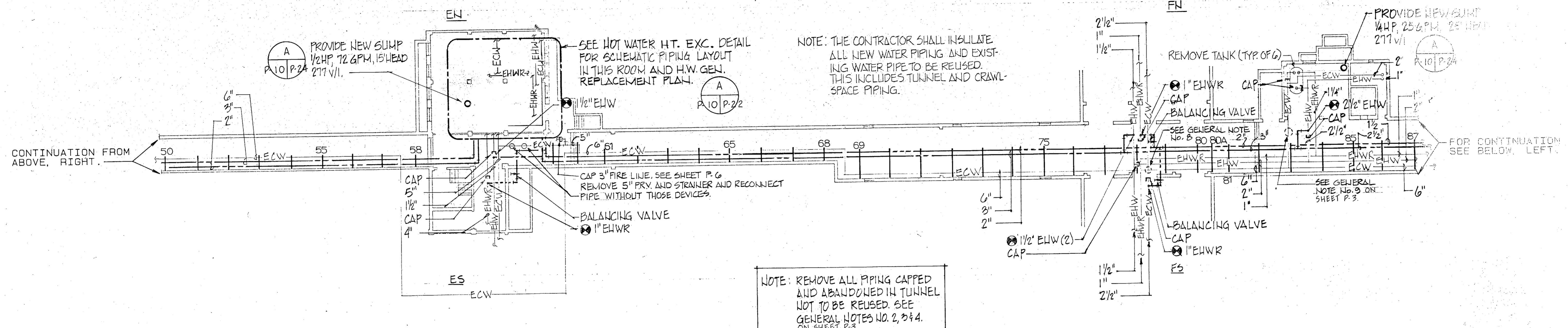
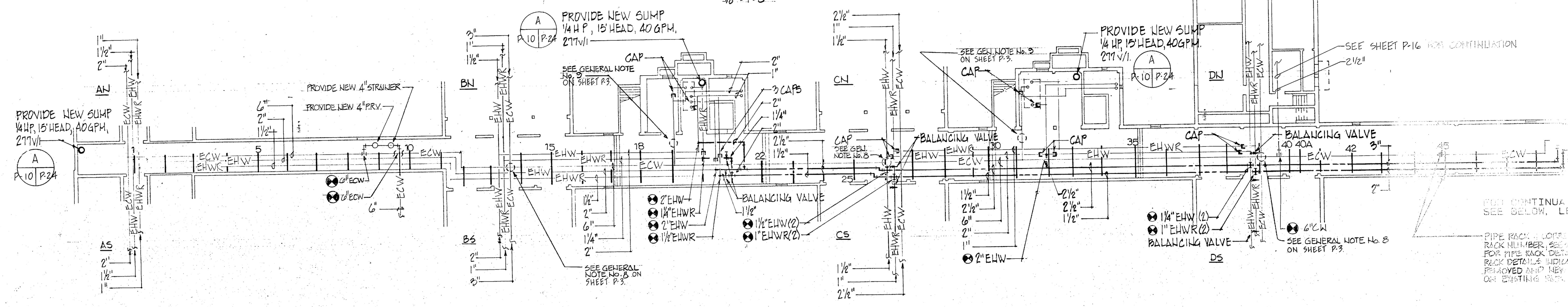
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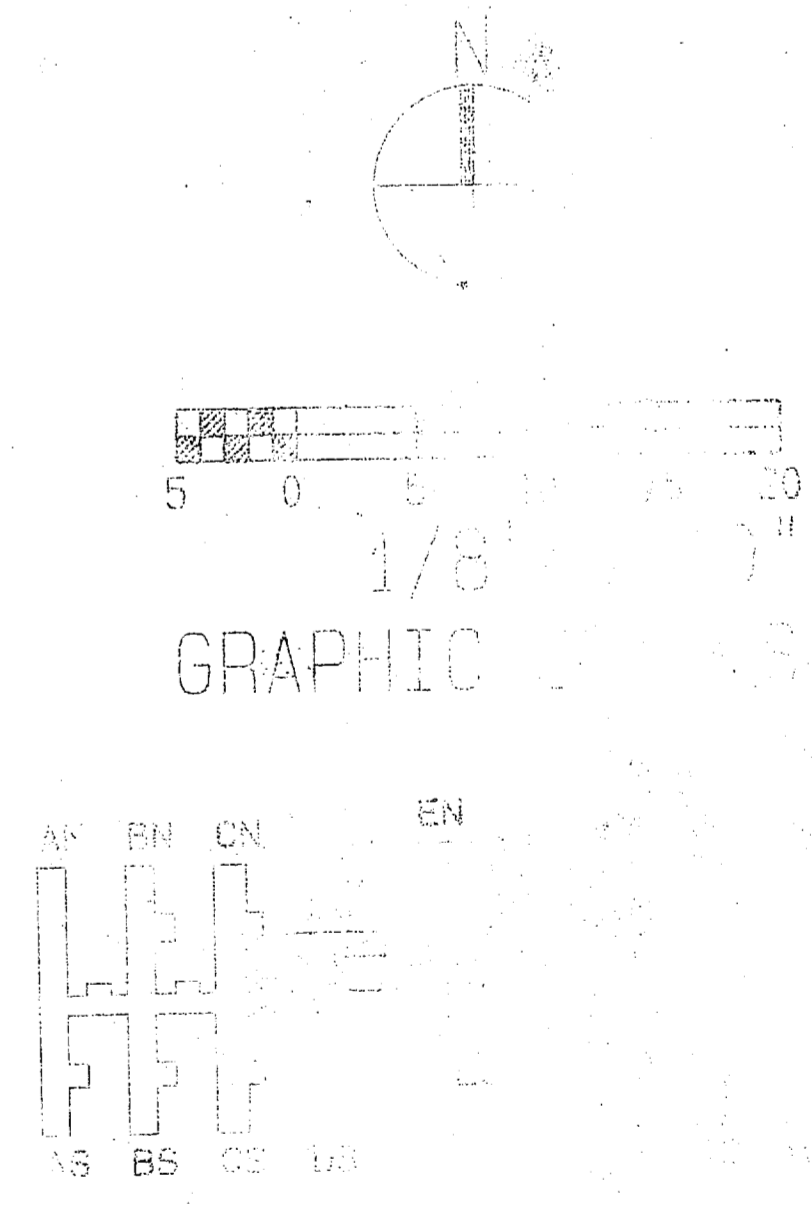
1 GEN.



H.W. GENERATOR REPLACEMENT PLAN
1/8" = 1'-0"



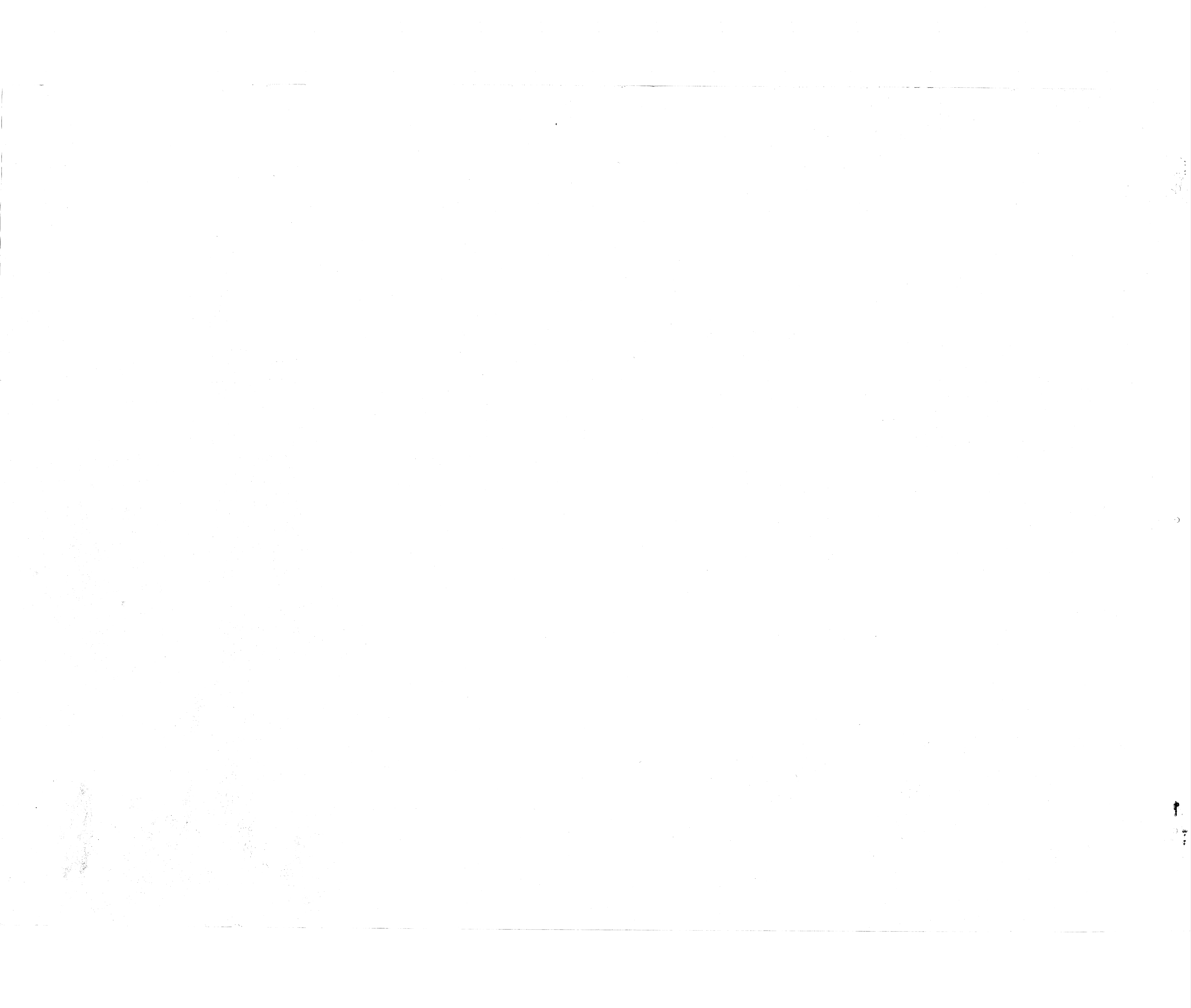
PLUMBING PLAN-TUNNEL
1/16" = 1'-0"

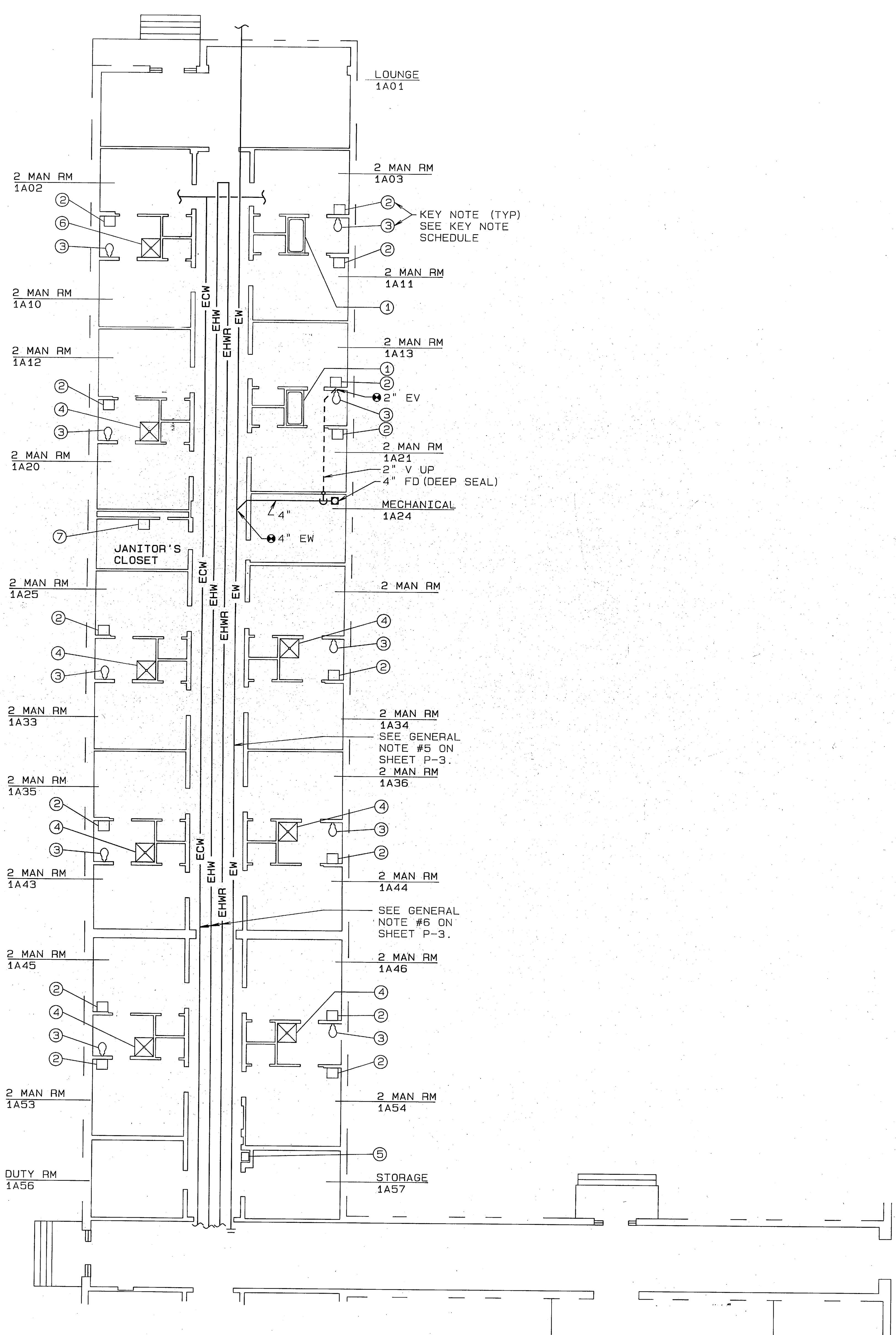


P-10

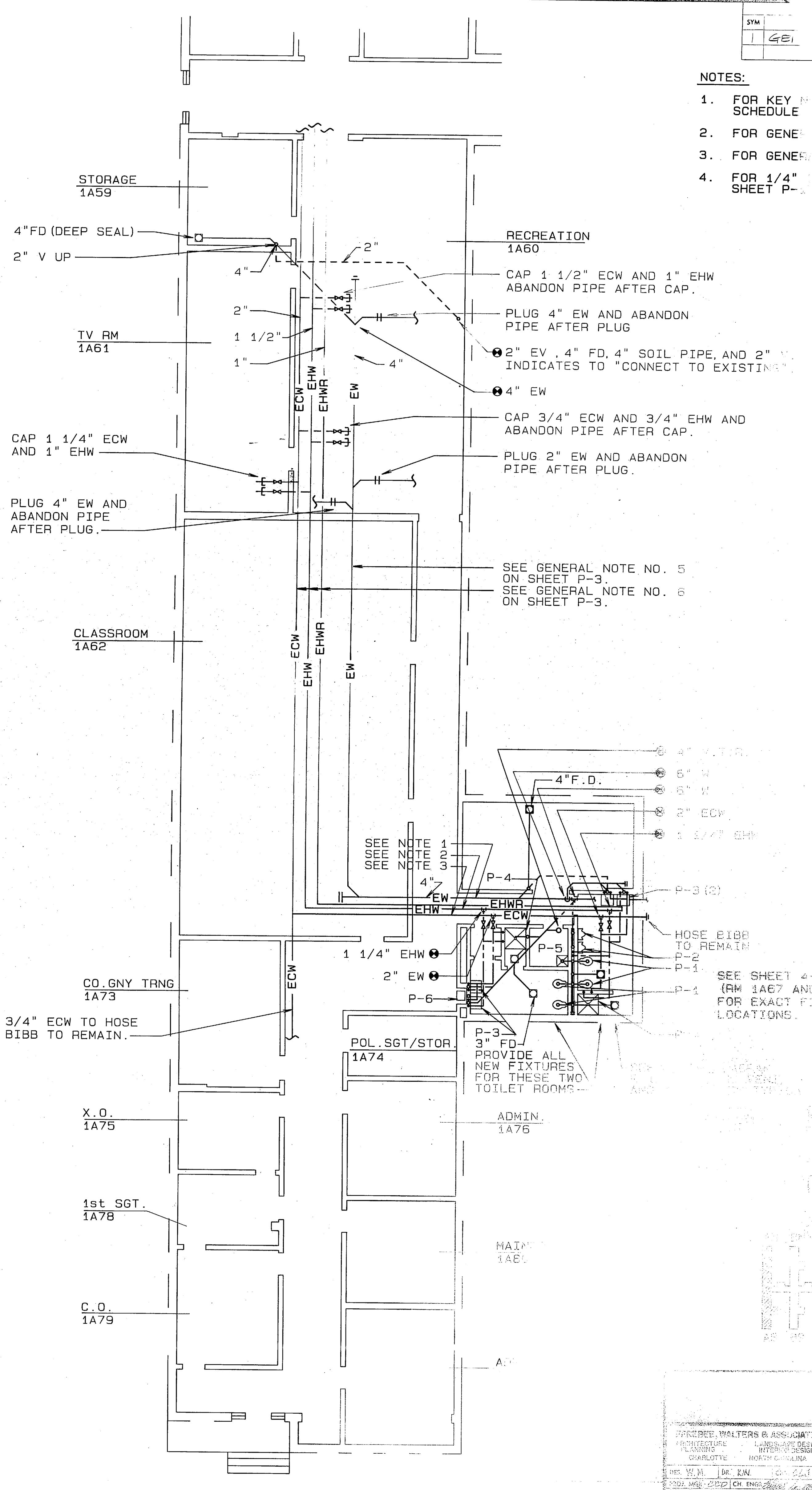
PEREGRINE ENGINEERING & ARCHITECTURE
1000 W. HARRIS STREET
DURHAM, NC 27701
TEL: 919.286.1111
WWW.PEREGRINE-ENGINEERING.COM

DATE: 11/14/11
DRAWN BY: J. H. HARRIS
CHECKED BY: J. H. HARRIS
PROJECT: [REDACTED]





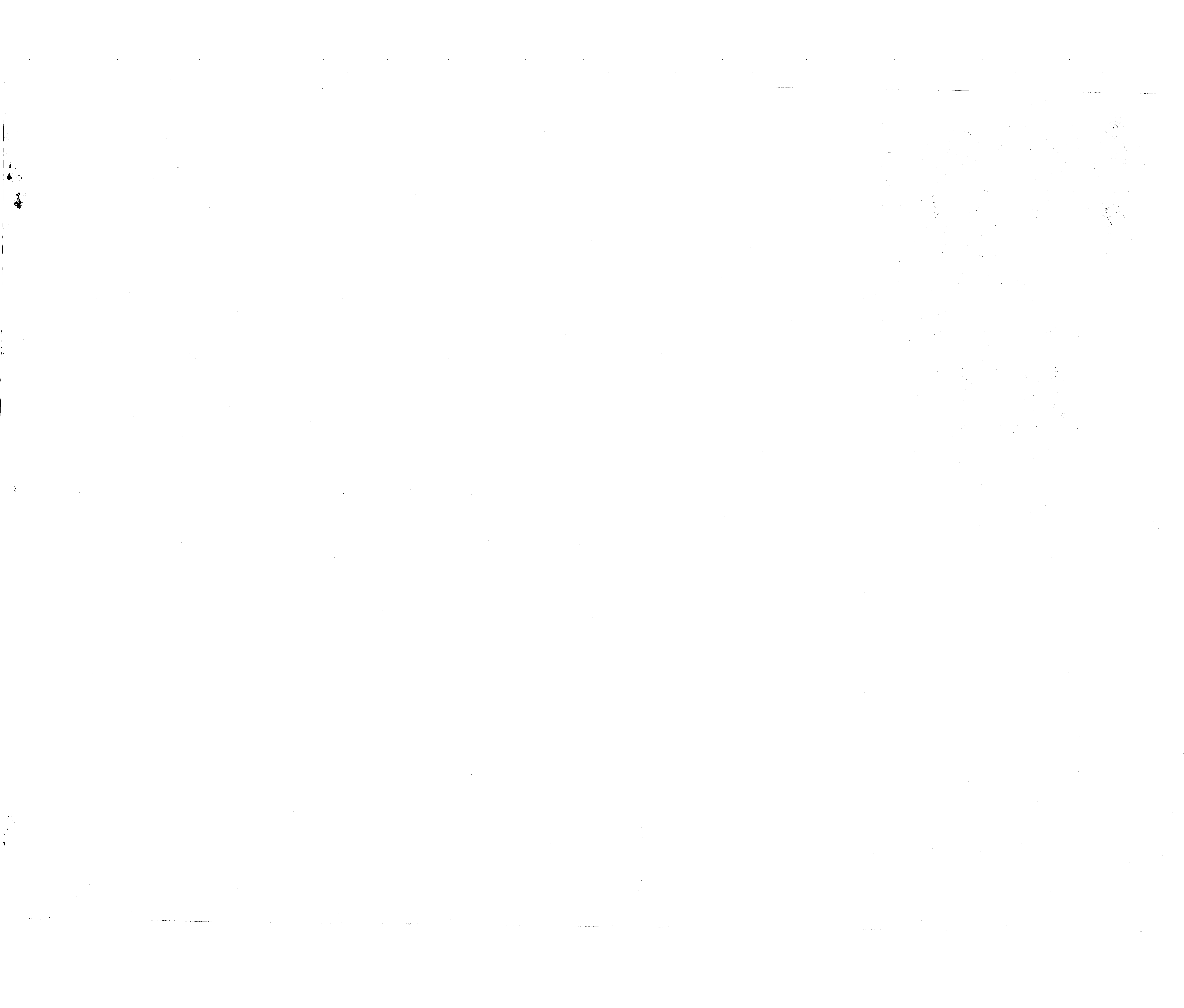
PLUMBING PLAN-1A NORTH
1/8"=1'-0"



PLUMBING PLAN-1A SOUTH
1/8"=1'-0"

- NOTES:
1. FOR KEY SCHEDULE
 2. FOR GENERAL
 3. FOR GENERAL
 4. FOR 1/4" SHEET P-3

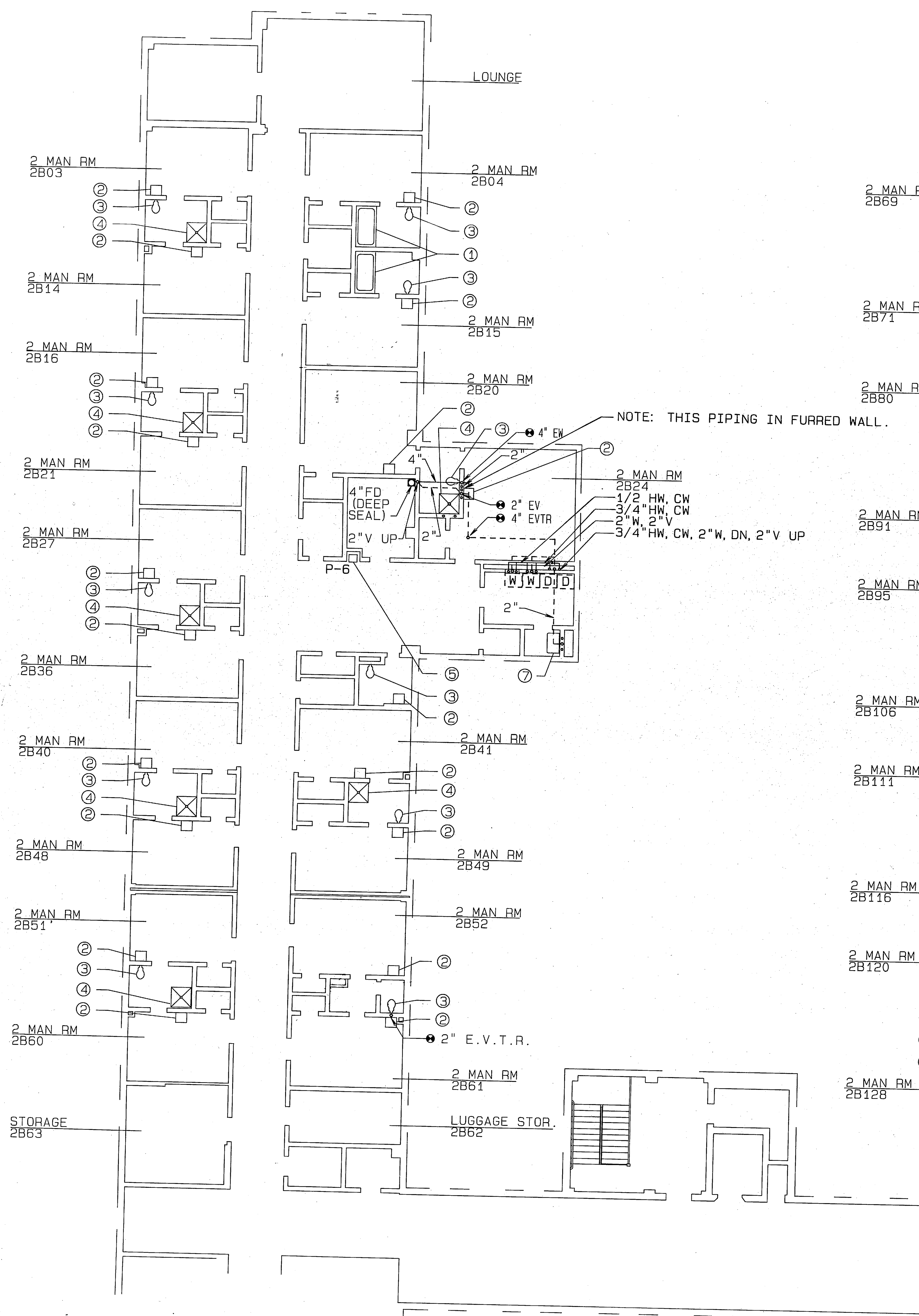
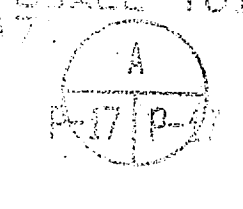
DESIGNED BY: WALTERS & ASSOCIATES		DEPARTMENT OF THE NAVY	
DRAWN BY: [Signature]		ATLANTA	
CHECKED BY: [Signature]		NAVAL ESTABLISHMENT	
DATE: 1/18/54		MARINE CORPS BASE	
SCALE: 1/8"=1'-0"		CONVERTIBLE HEAT	
APPROVED BY: [Signature]		OFFICER IN CHARGE	
DATE: 1/18/54		FOR ETO FOR COMMANDER, NAVAL	



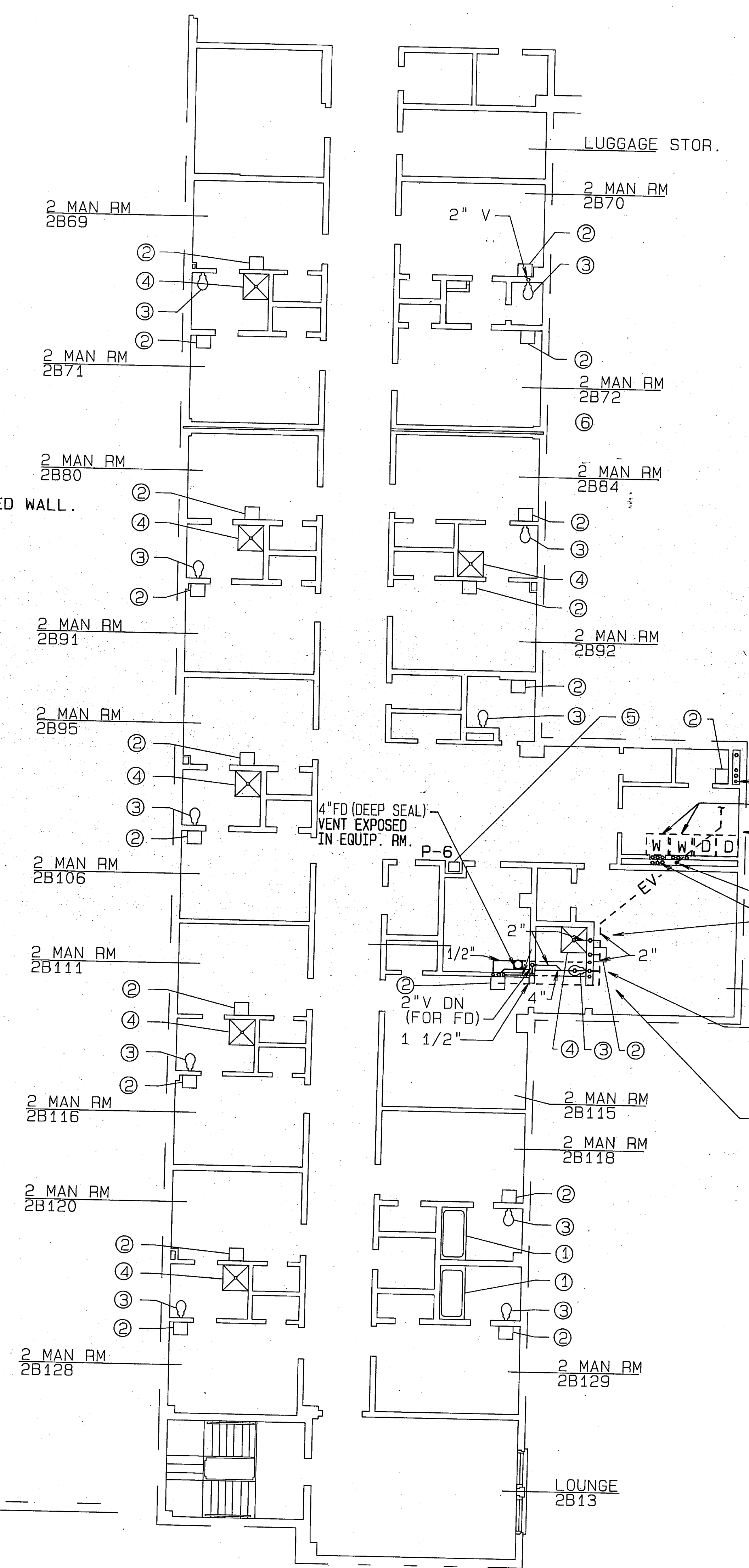


SYM	DESCRIPTION
1	GENERAL
2	GENERAL
3	GENERAL
4	GENERAL
5	GENERAL
6	GENERAL
7	GENERAL
8	GENERAL
9	GENERAL
10	GENERAL

- NOTES:
1. FOR KEY NOTES (CIRCLED NOTES) SCHEDULE ON SHEET P-3.
 2. FOR GENERAL NOTES SEE SHEET P-3.
 3. FOR 1/4" SCALE TOILET PLANS SEE SHEET P-3.



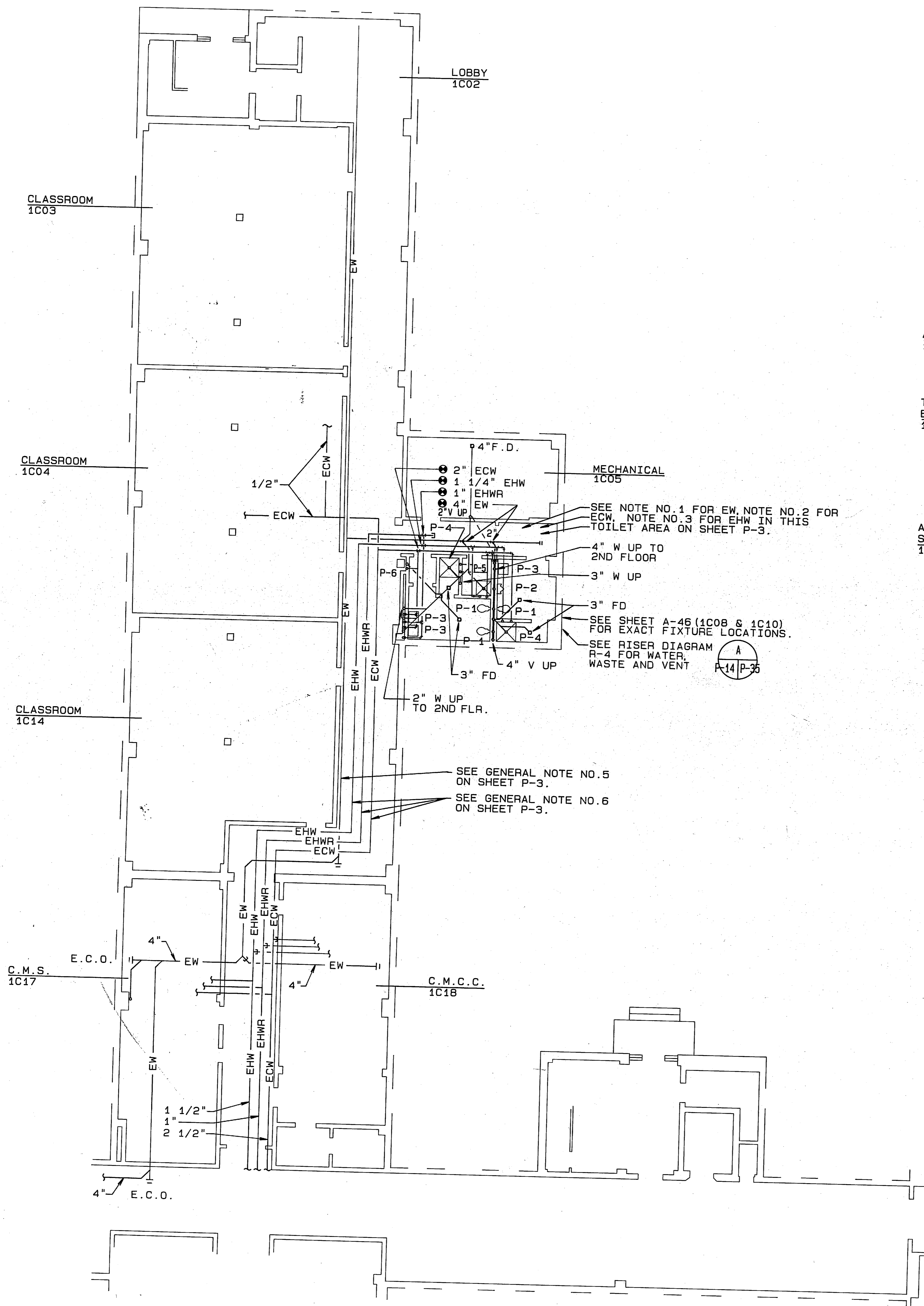
PLUMBING PLAN-2B NORTH
1/8"=1'-0"



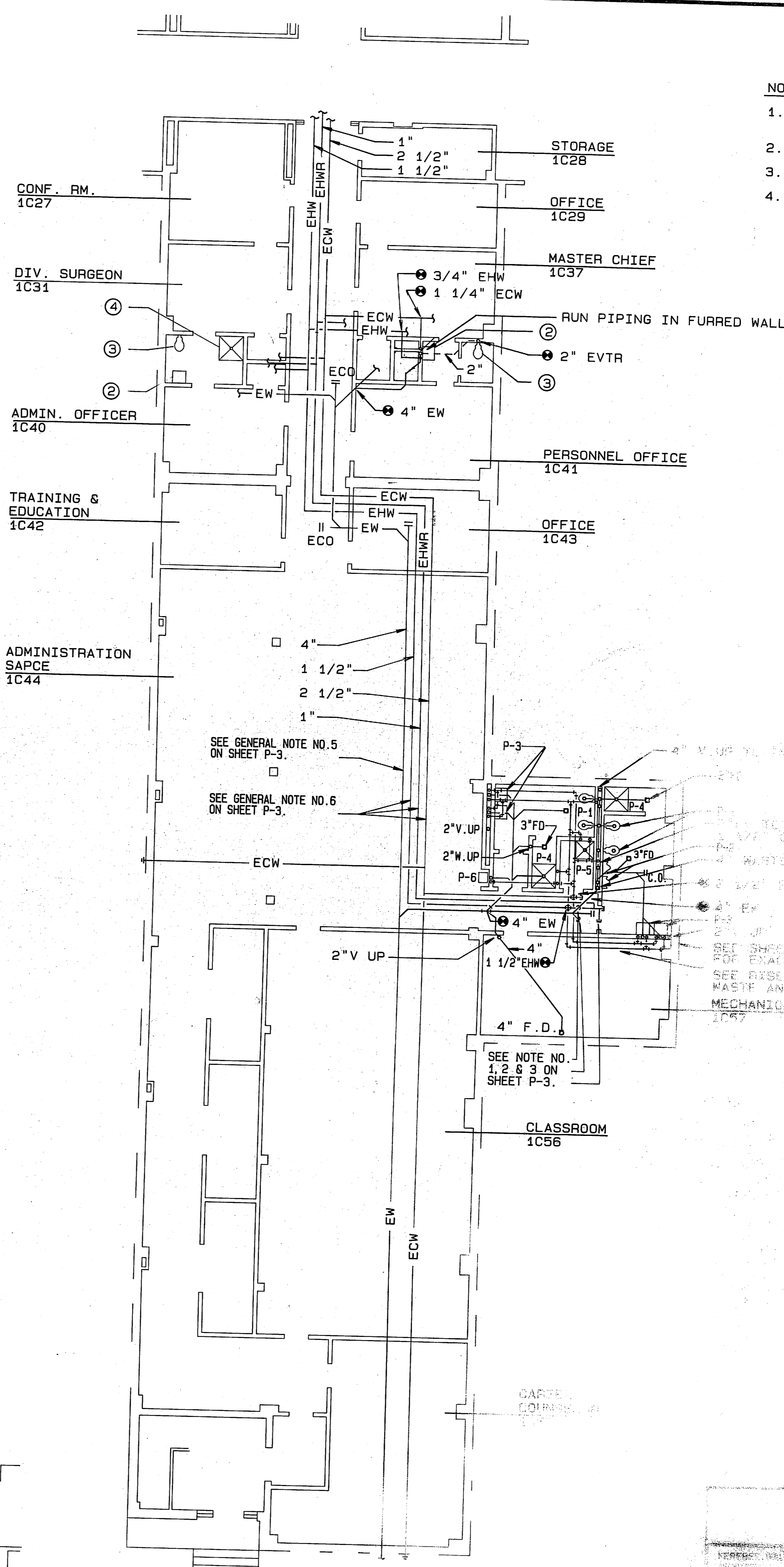
PLUMBING PLAN-2B SOUTH
1/8"=1'-0"

DESIGNED BY DRAWN BY CHECKED BY APPROVED BY DATE	PROJECT NO. SHEET NO. OF SHEETS DATE	CONTRACT NO. SHEET NO. OF SHEETS DATE	APPROVED BY DATE
--	---	--	---------------------





PLUMBING PLAN-1C NORTH
1/8"=1'-0"



PLUMBING PLAN-1C SOUTH
1/8"=1'-0"

- NOTES:
1. FOR KEY TO SYMBOLS NOT SCHEDULED SEE SHEET P-3.
 2. FOR GENERAL NOTES SEE SHEET P-3.
 3. FOR GENERAL NOTE NO. 7 SEE SHEET P-3.
 4. FOR GENERAL NOTE NO. 8 SEE SHEET P-3.

14

ENGINEERING COMMAND

NAVY MEDICAL CENTER

ROUNDTREE, VIRGINIA

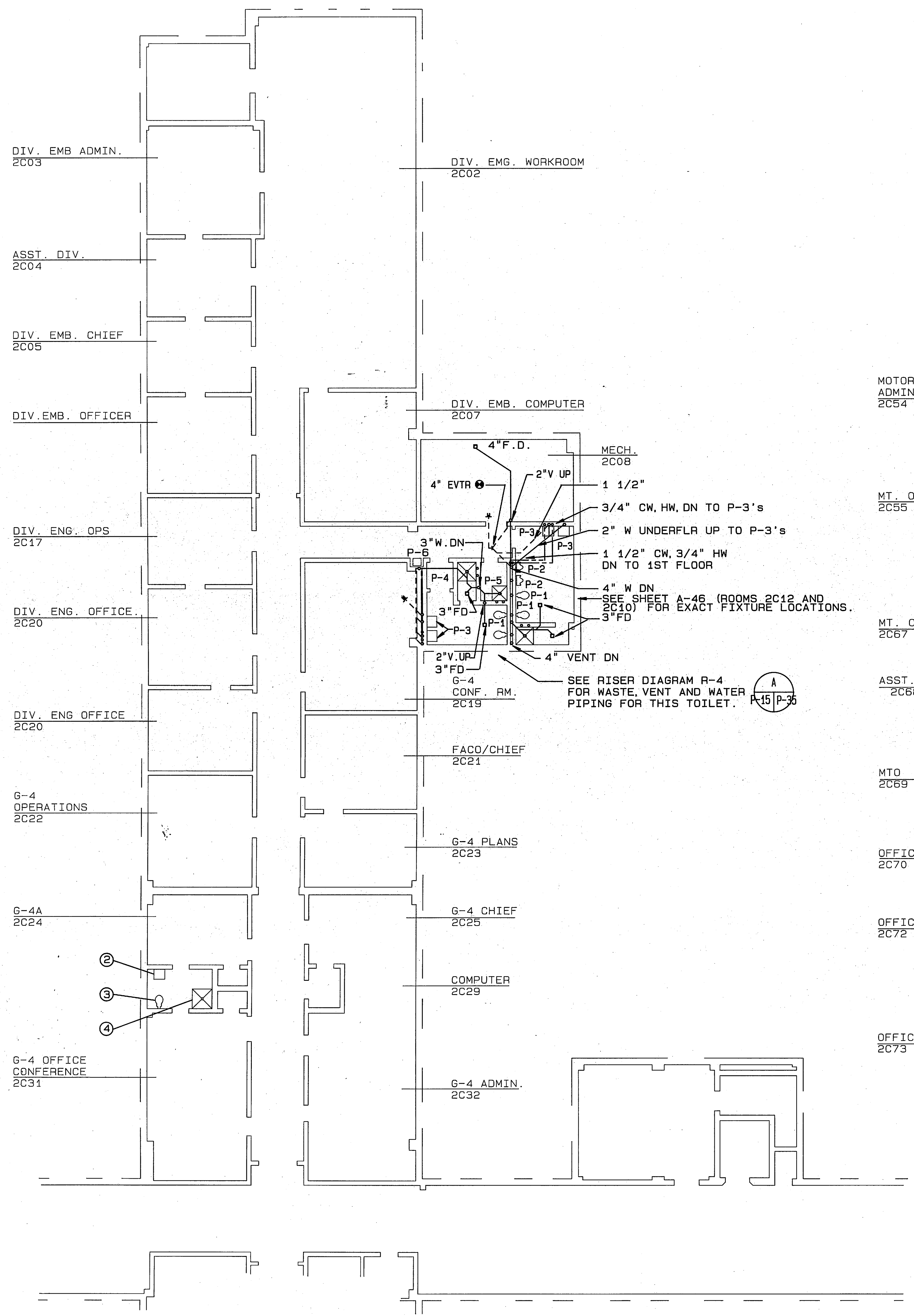
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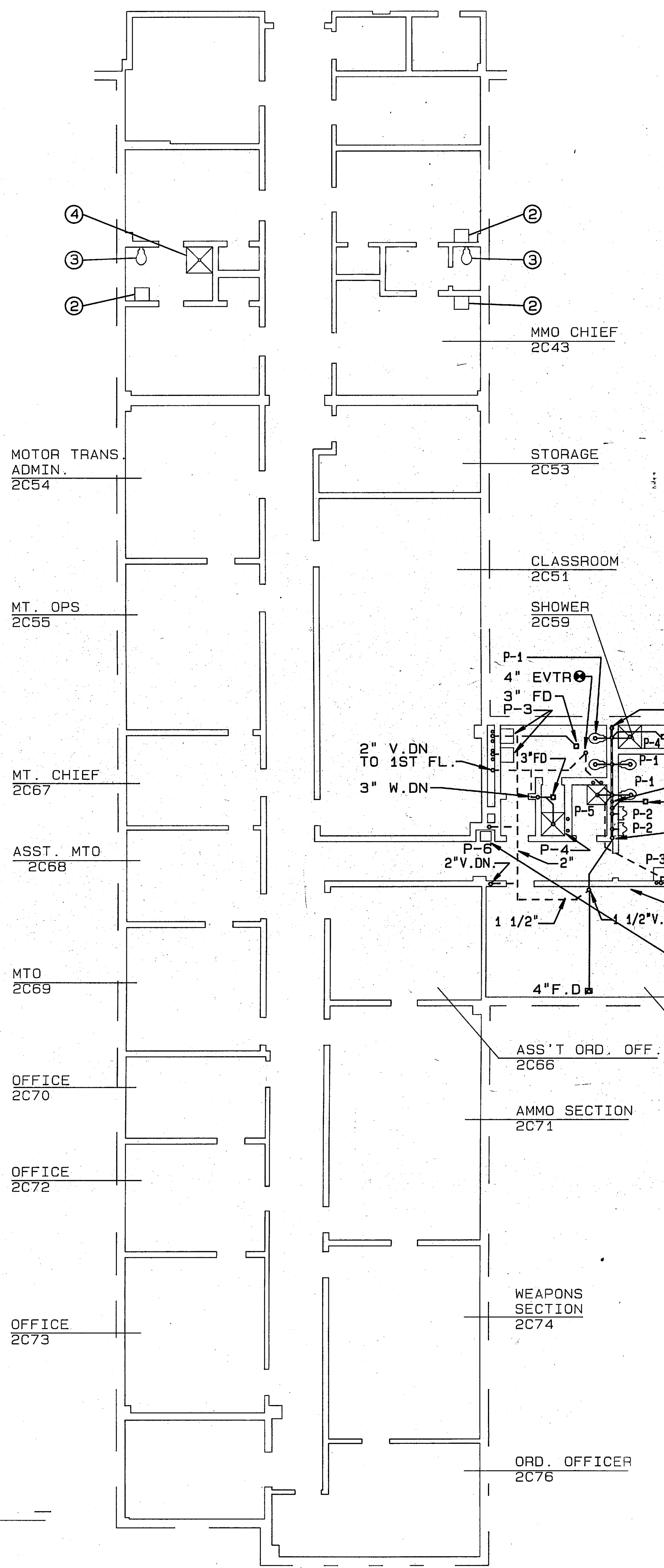
FOR THE COMMANDANT

57M	
1	

- NOTES:
1. FOR KE... SCHEDULED NOTES
 2. FOR GE... SHEET
 3. FOR 1... PLAN SHEET



PLUMBING PLAN-2C NORTH
1/8"=1'-0"



PLUMBING PLAN-2C SOUTH
1/8"=1'-0"

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: [Signature]

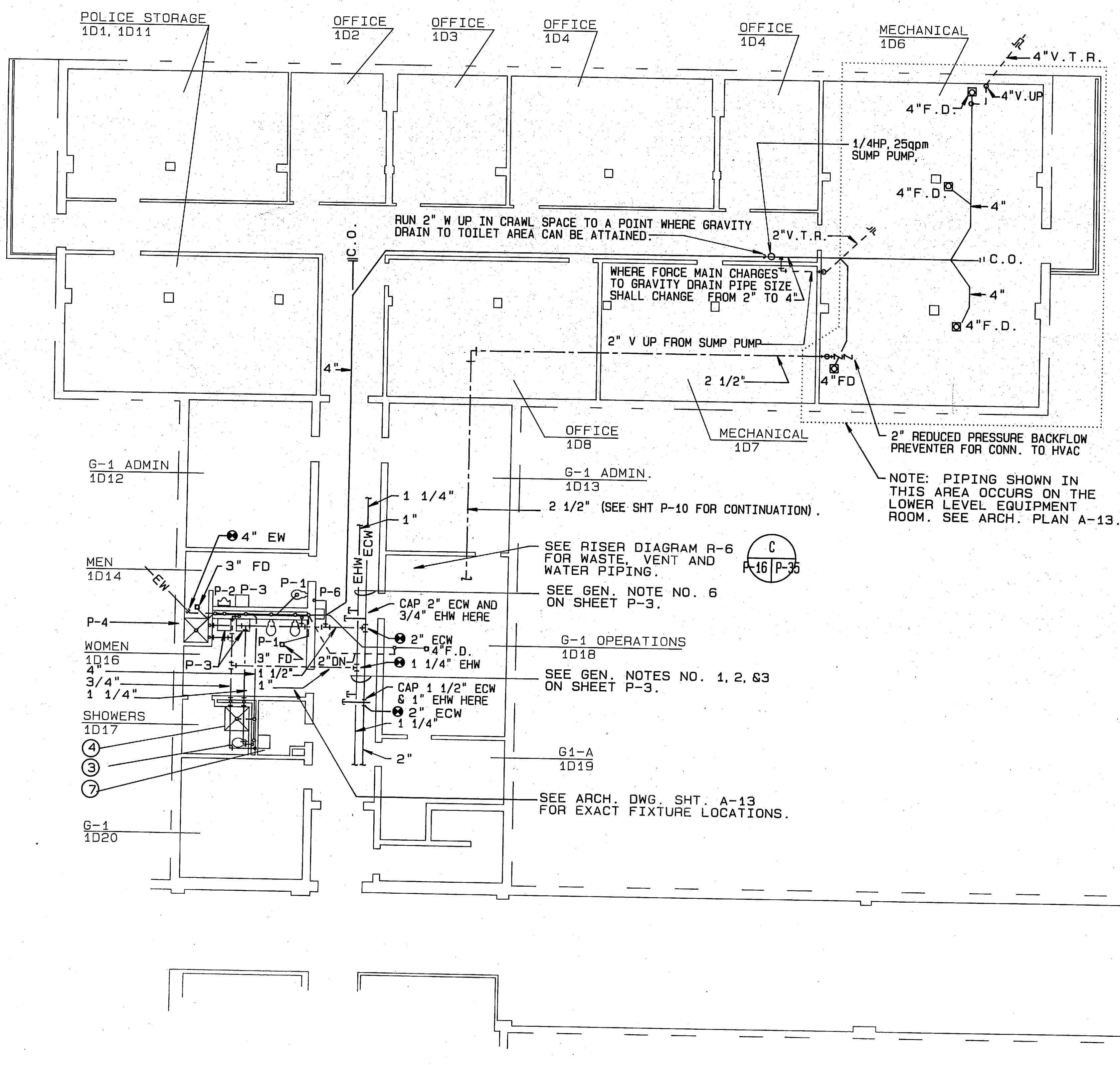
CHECKED BY: [Signature]

DATE: [Date]

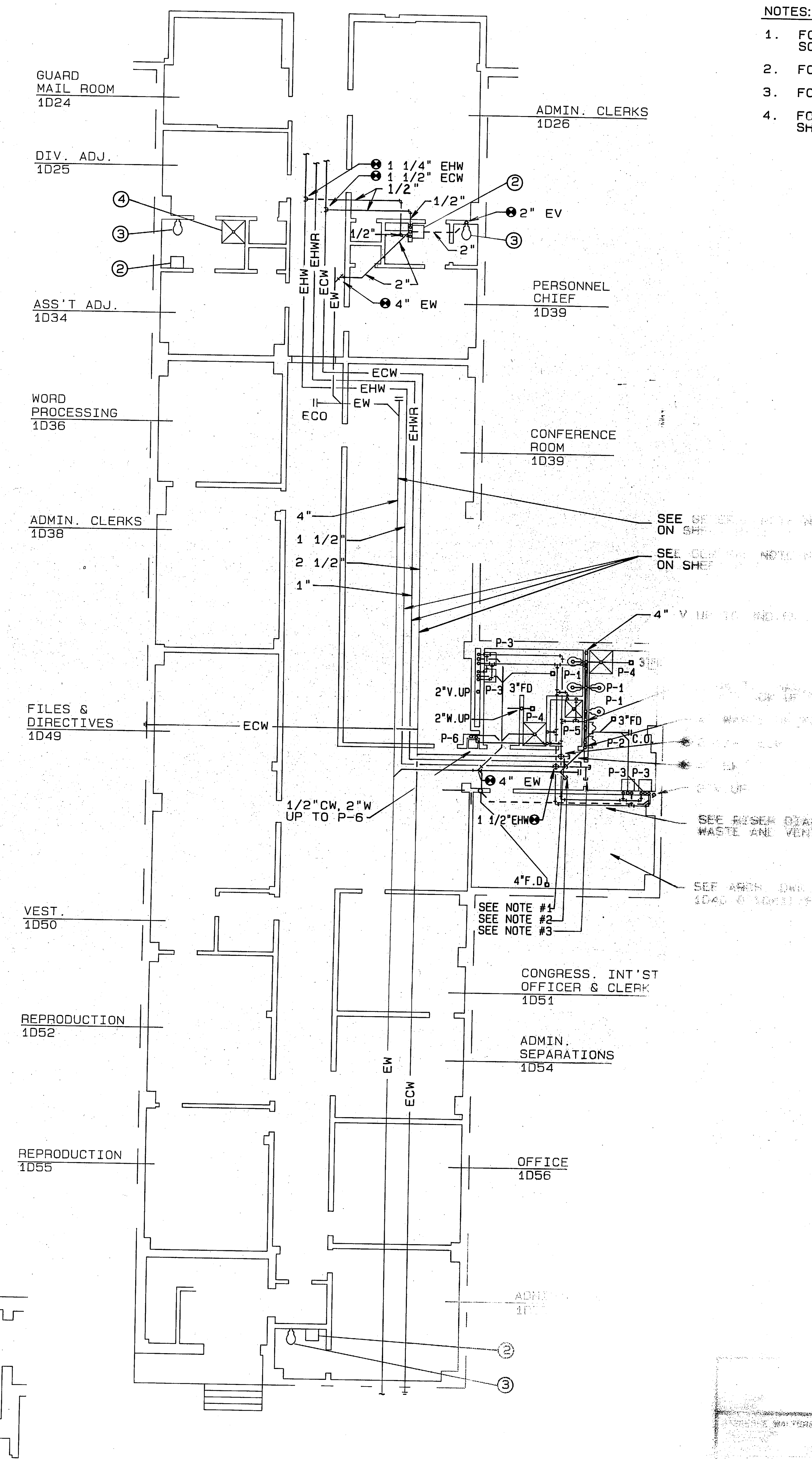
PROJECT: [Project Name]

SCALE: 1/8"=1'-0"





PLUMBING PLAN-1D NORTH
1/8"=1'-0"

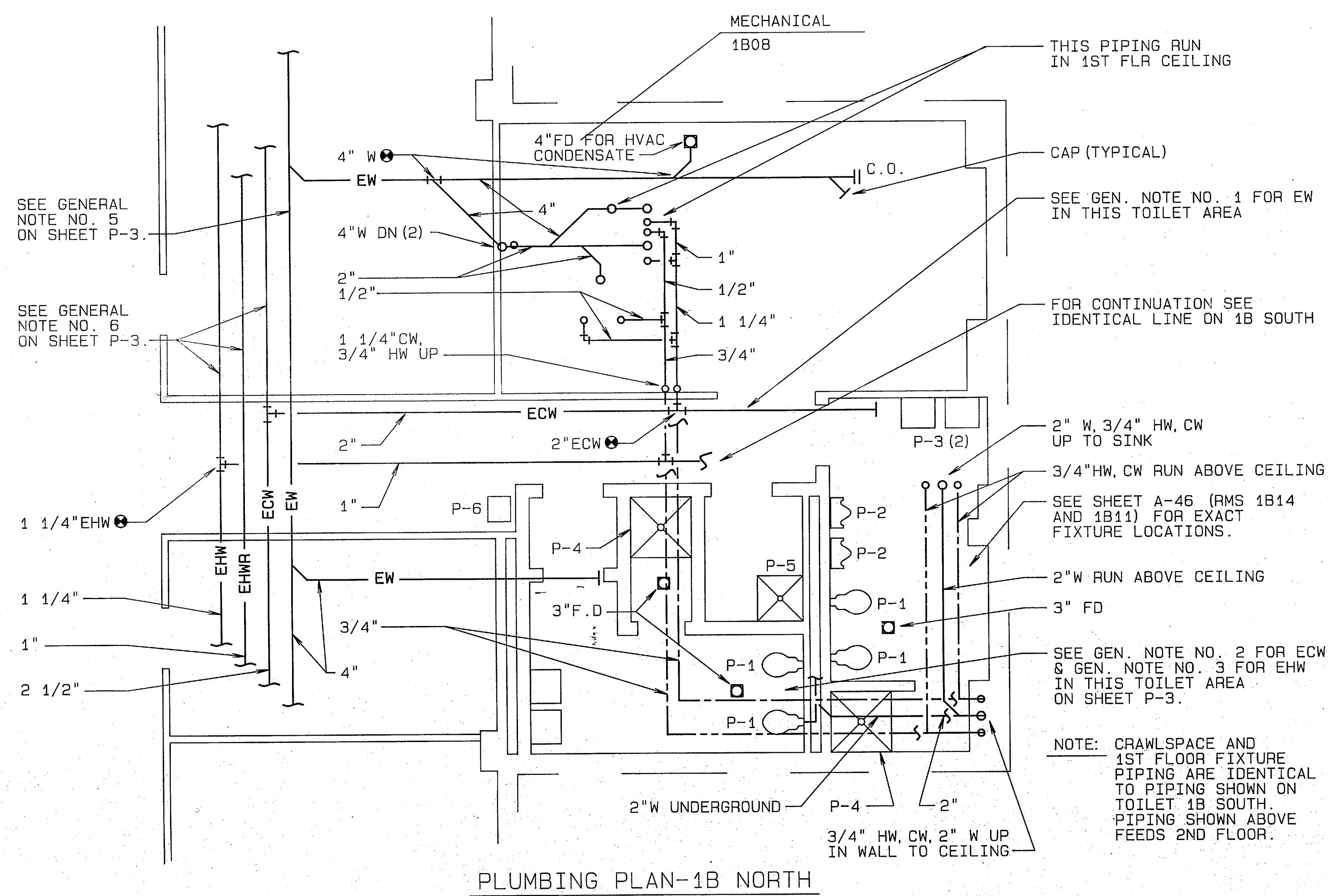


PLUMBING PLAN-1D SOUTH
1/8"=1'-0"

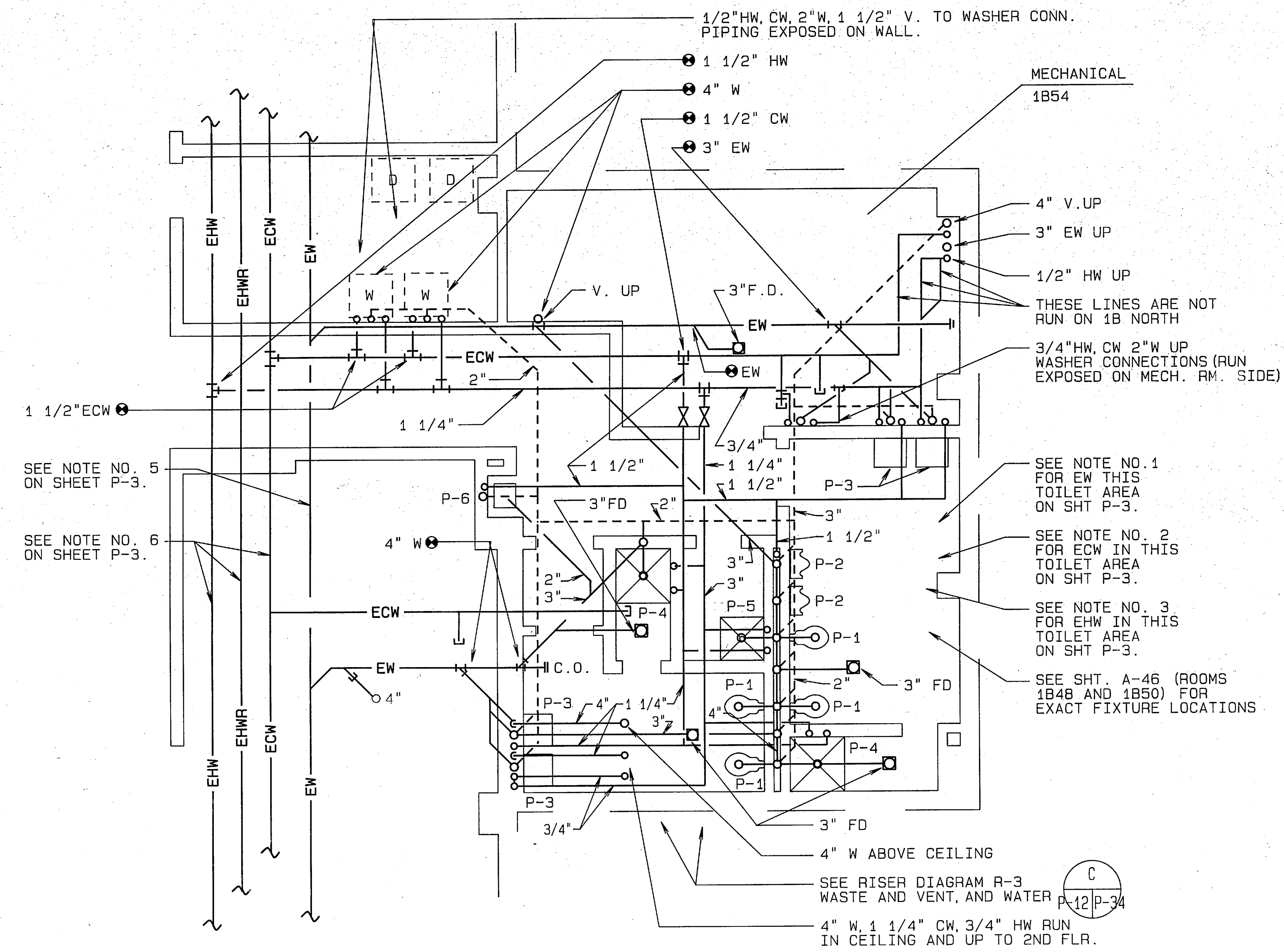
- NOTES:
1. FOR KEYS TO SYMBOLS AND UNLABLED NOTATIONS SEE SHEET P-3.
 2. FOR GENERAL NOTES SEE SHEET P-3.
 3. FOR GENERAL NOTE NO. 7 SEE SHEET P-3.
 4. FOR SCALE TOILET AND SINK SEE SHEET P-3.

P-16





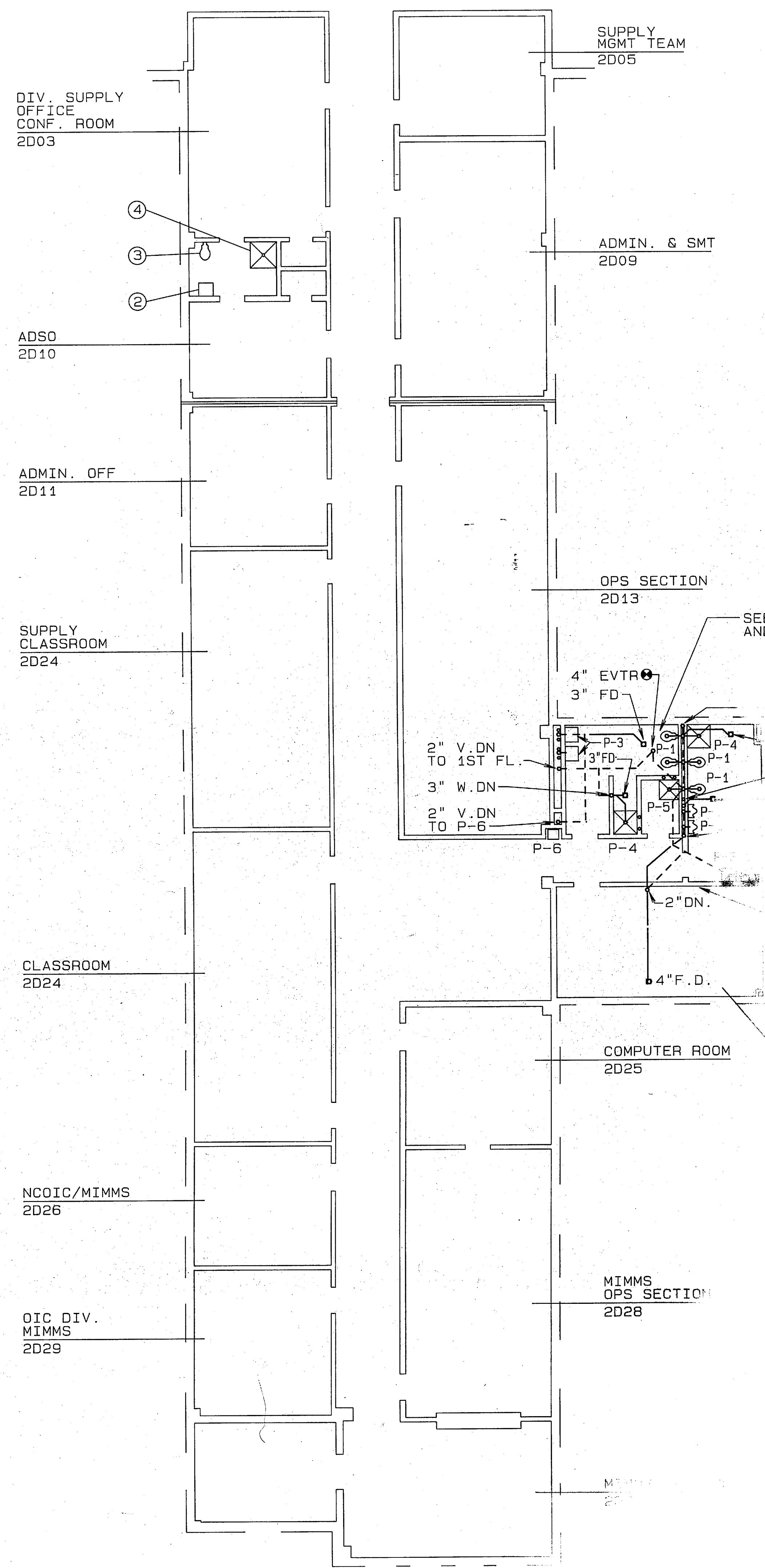
PLUMBING PLAN-1B NORTH



PLUMBING PLAN-1B SOUTH

TYPICAL PLUMBING PLAN-TOILET AREAS

1/4"=1'-0"
 P-12, P-13, P-14, P-15, P-16, P-17,
 P-27, P-28, P-29, P-30, P-31, P-32 & P-33



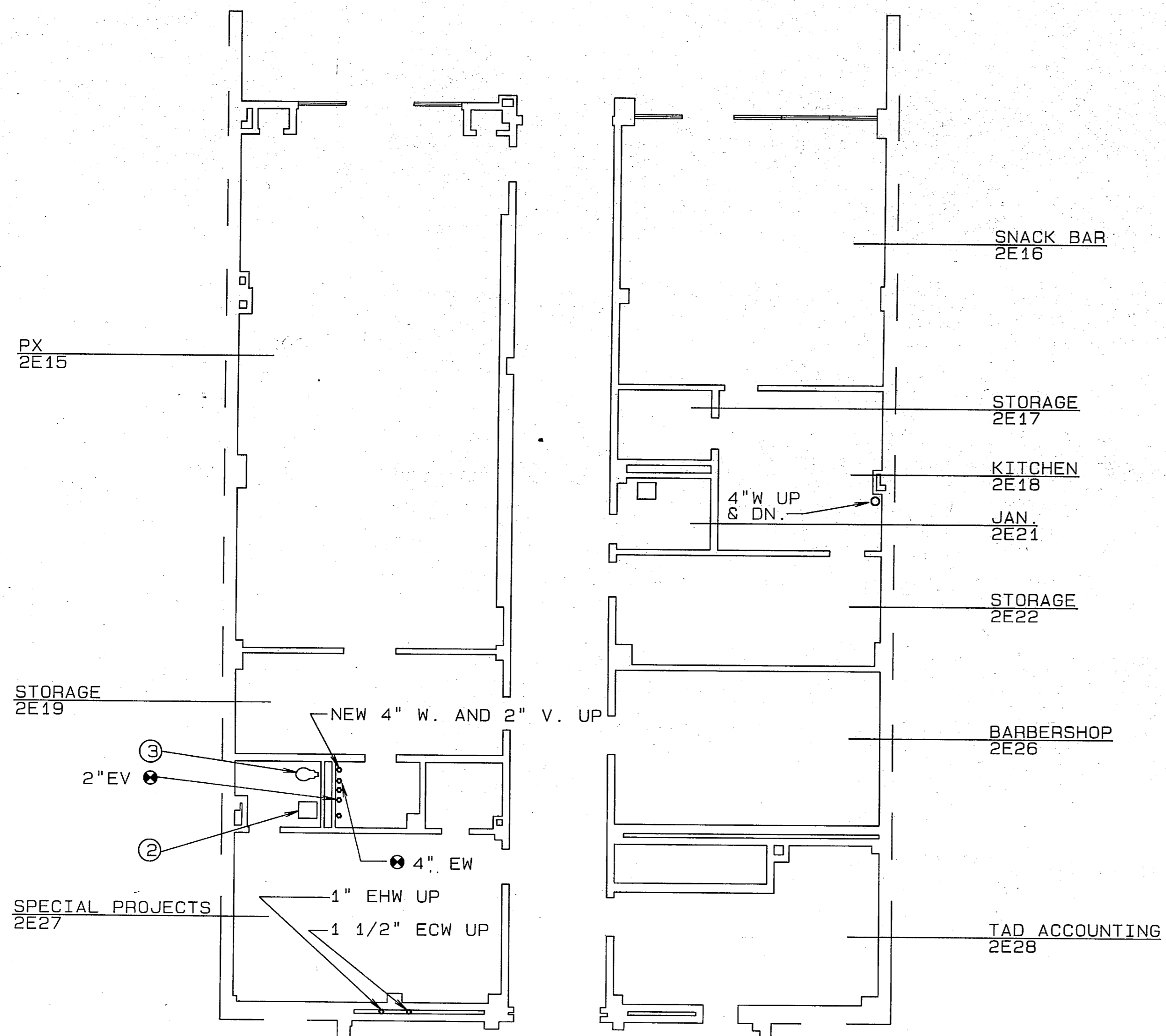
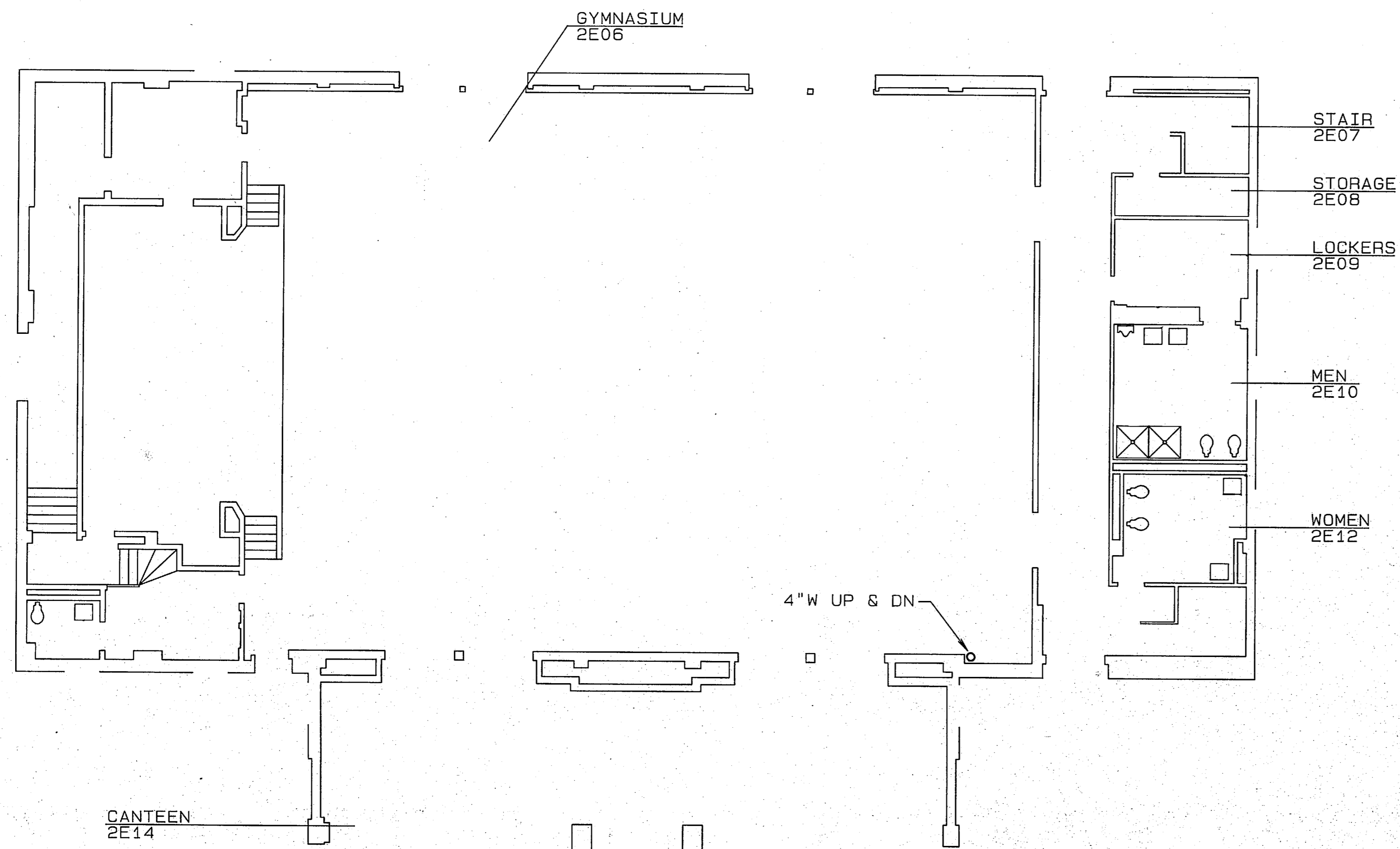
PLUMBING PLAN-2D SOUTH
 1/8"=1'-0"

NOTES:

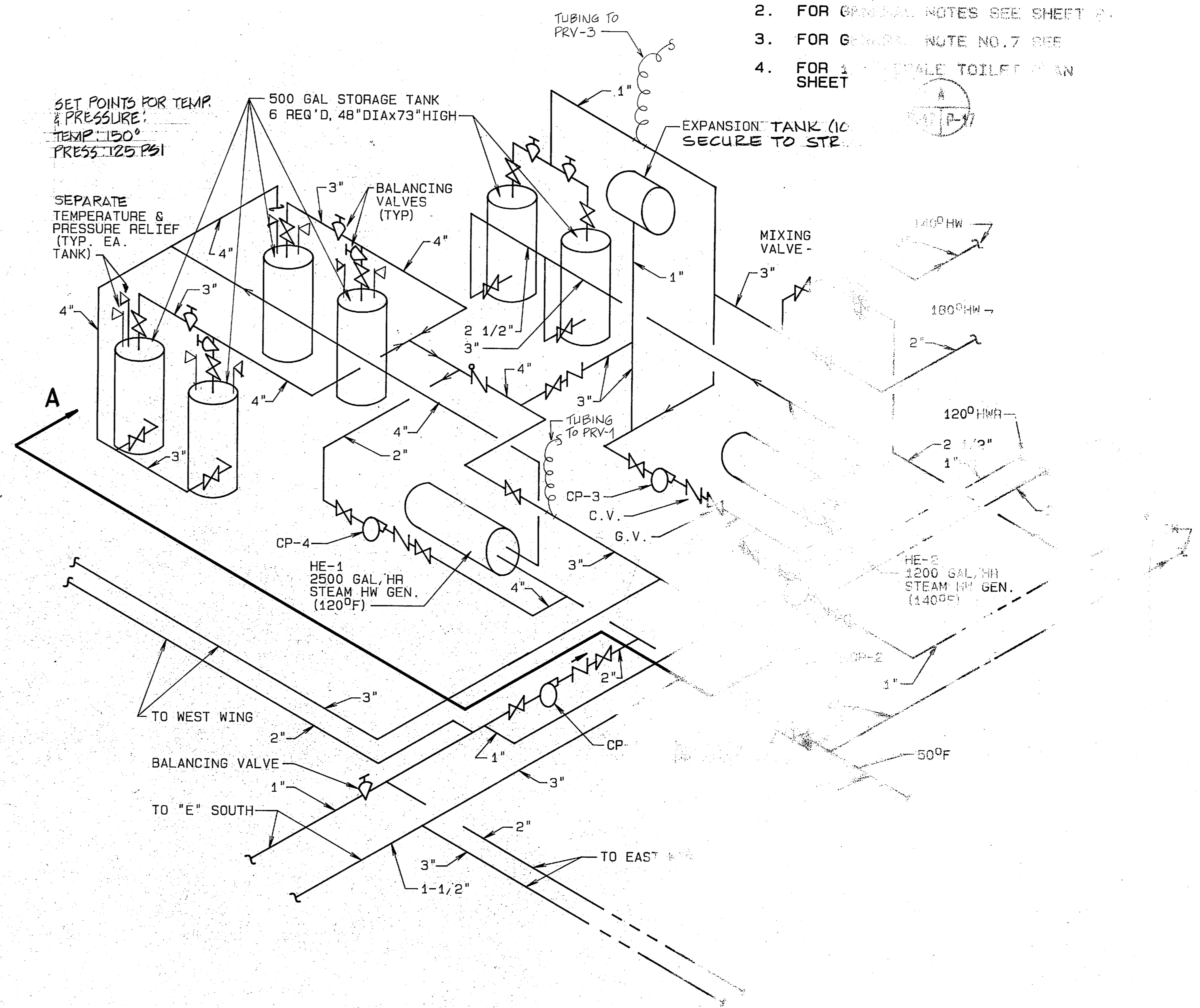
1. FOR KEY SCHEDULE
2. FOR GE
3. FOR 1 SHEET

PERNEY, WILSON & ASSOCIATES
 ARCHITECTS
 1000 ATLANTA ROAD
 ATLANTA, GA 30309
 CONVERT TO
 DIVISION





PLUMBING PLAN-2E NORTH
1/8"=1'-0"



H.W. GENERATOR PIPING SCHEMATIC

NOTE: RUN ALL DRAIN LINES TO EXISTING DRAIN SUMP
SEE REFERENCE DRAWINGS FOR FLOOR PLAN

Connect the following new pipe lines to the existing lines serving 1E North

Pipe Size	Description
2"	140°F HW
2"	180°F HW
1"	120°F HW
2"	120°F HW
1"	140°F HW
4"	OK

- NOTES:
- FOR NOTES REFER TO SCHEDULE SHEET P-2.
 - FOR GENERAL NOTES SEE SHEET P-1.
 - FOR GENERAL NOTE NO. 7 SEE SHEET P-1.
 - FOR GENERAL NOTE NO. 7 SEE SHEET P-1.

APPROVED: [Signature]

DATE: 11/11/66

FOR EFD FOR COPY

ASSOCIATED: [Signature]

DATE: 11/11/66

FOR EFD FOR COPY

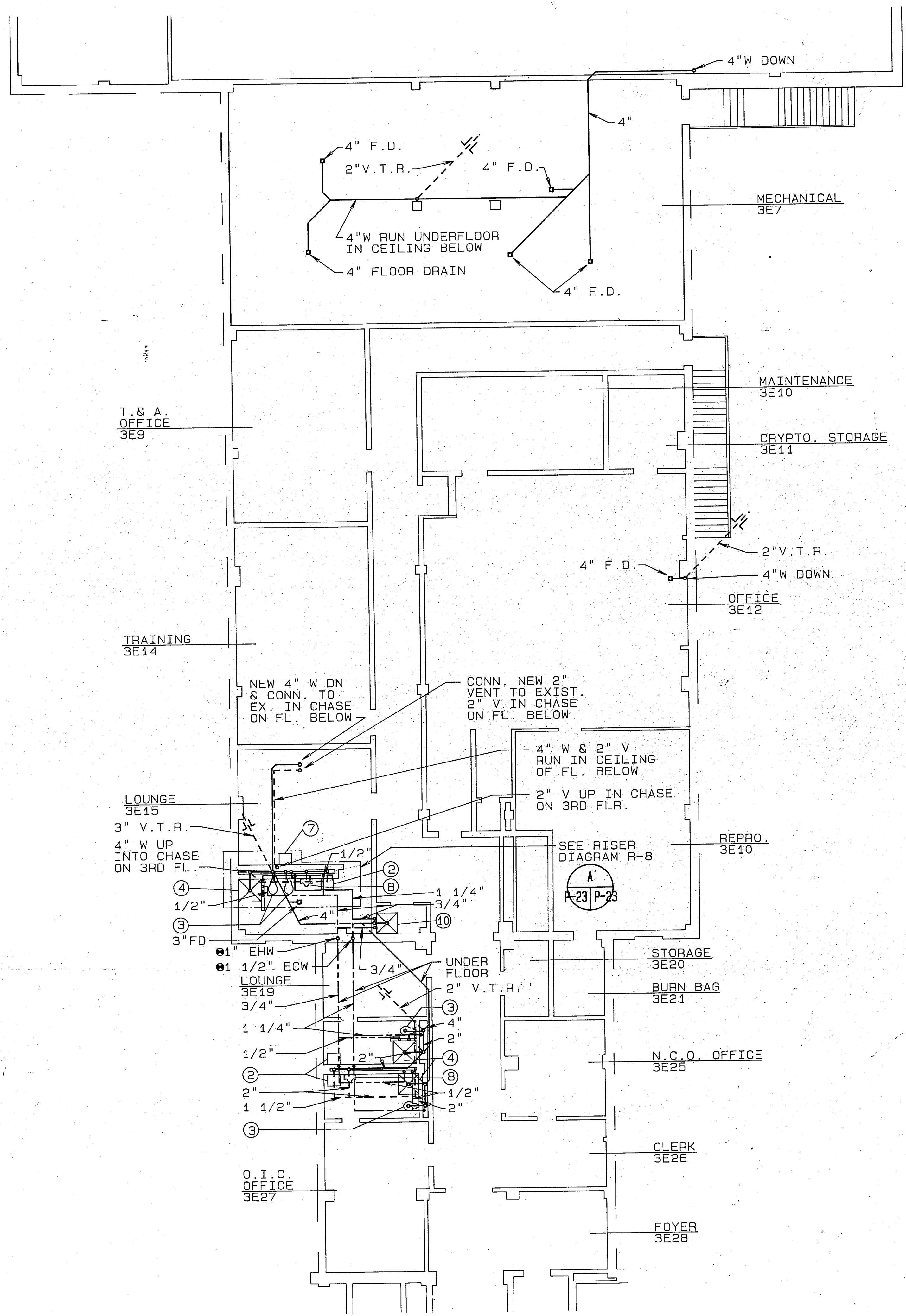
ATLANTA

MARINE CORPS BASE

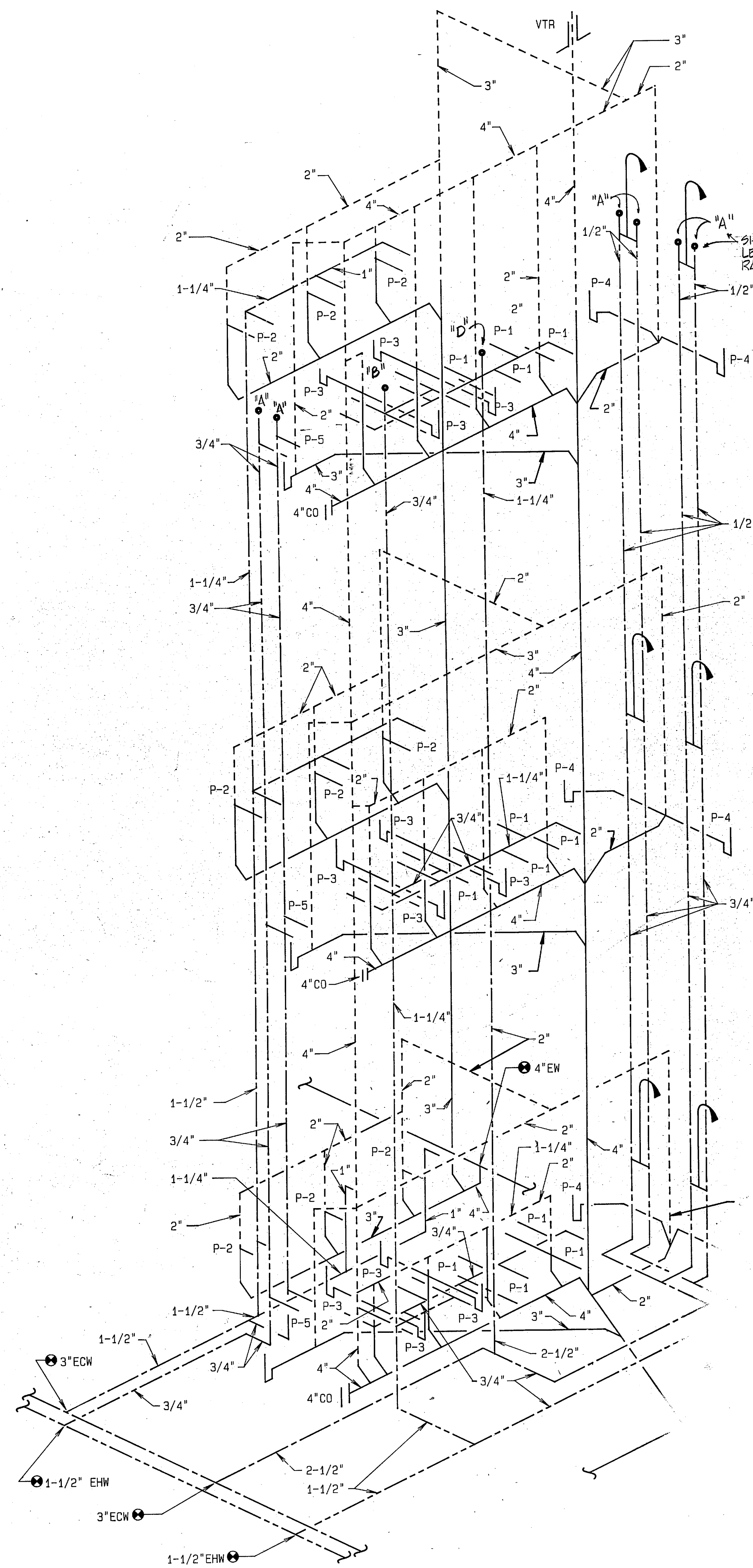
CONVERT

DESIGN

P-22

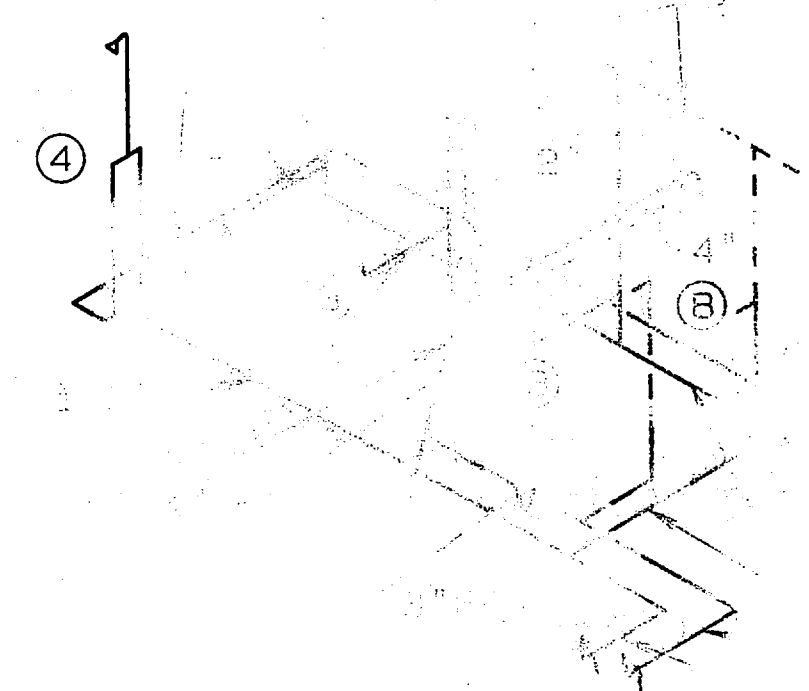


PLUMBING PLAN-3E NORTH
1/8"=1'-0"



RISER DIAGRAM R-7
NO SCALE
P-25, P-26

- NOTES:
1. FOR SCHED.
 2. FOR G1
 3. FOR G2
 4. FOR 1/SHEET



RISER DIAGRAM R
NO SCALE

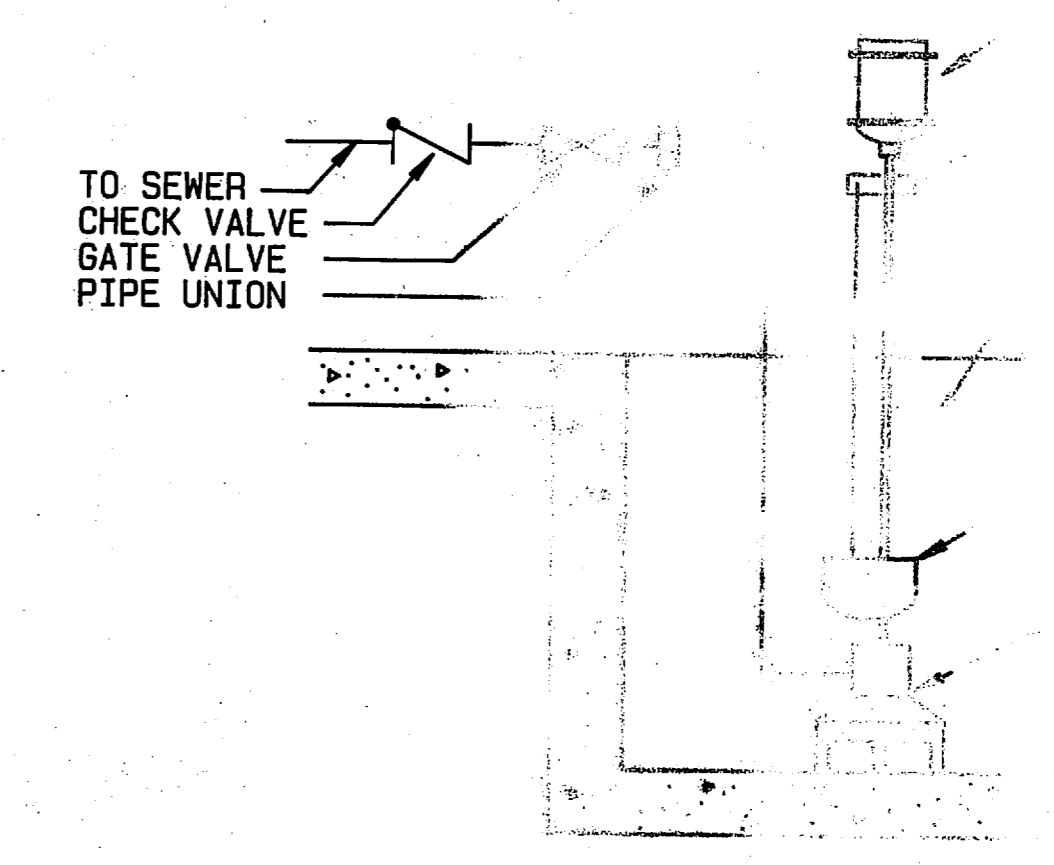
PERKINS, HALVENS & ASSOCIATES
ARCHITECTS
1000 15th Street, N.W.
Washington, D.C. 20004
MARION
CONTRACT DIVISION

DATE: 10/15/68
BY: [Signature]
CHECKED BY: [Signature]



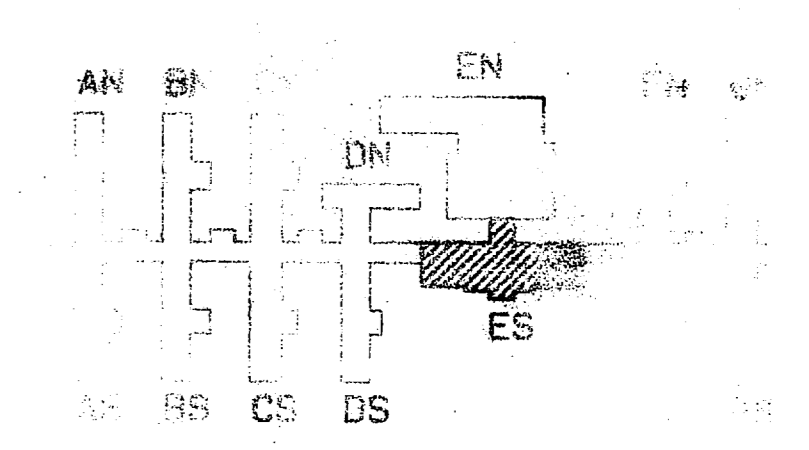
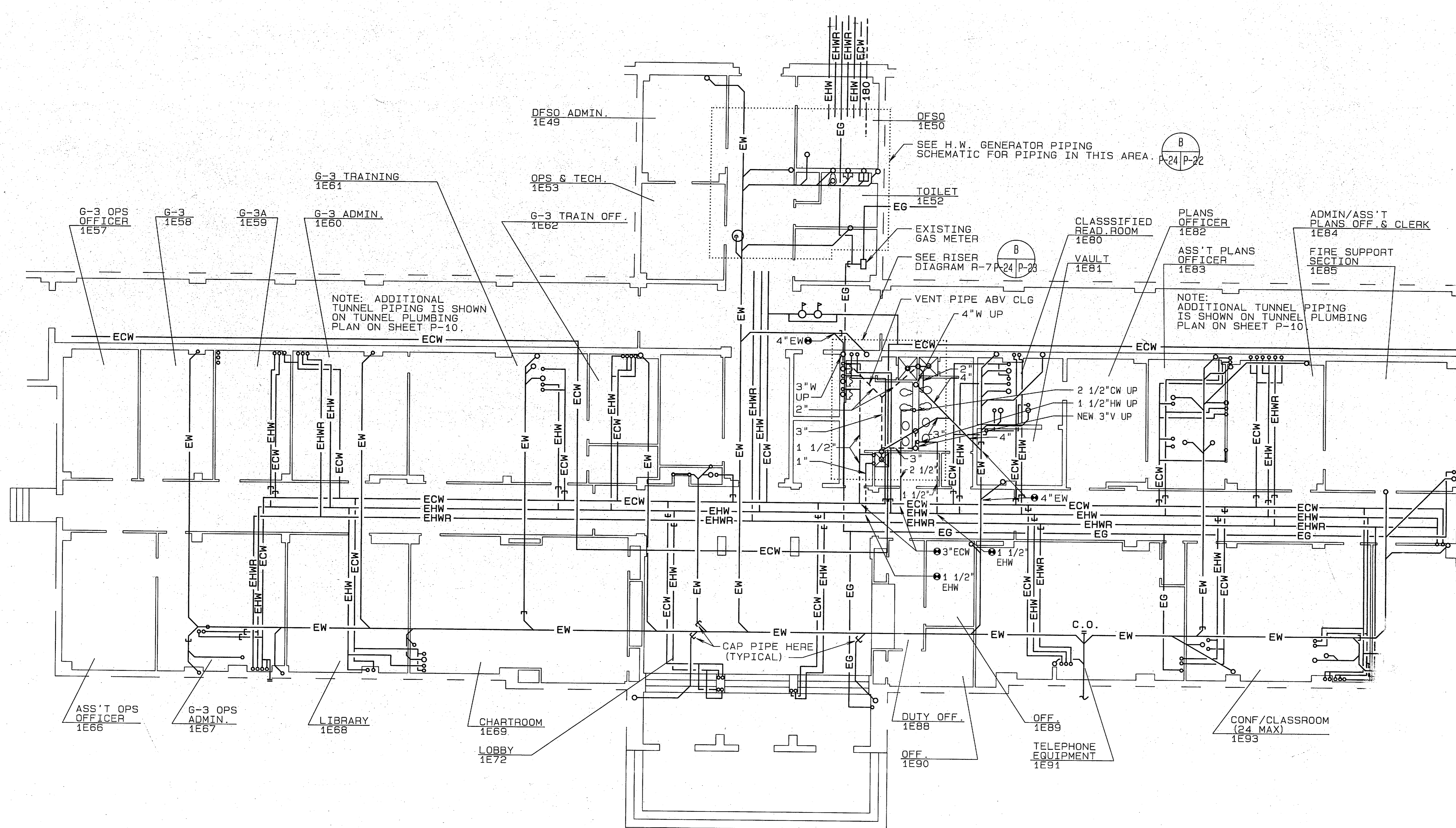
SYM	
1	GFN

- NOTES:
1. FOR KEY NOTES SEE KEY SCHEDULE ON SHEET P-3.
 2. FOR GENERAL NOTES SEE KEY SCHEDULE ON SHEET P-3.
 3. FOR 1/4" SCALE DETAILS SEE SHEET P-17.



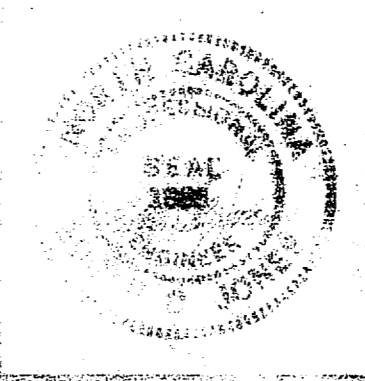
NOTE: THIS DRAWING REPRESENTS THE TYPICAL S. S. PIPE. ALL OTHER SIZES SHALL BE SHOWN. SEE H.W. GENERATOR PIPING SCHEMATIC FOR PIPING IN THIS AREA.

SUMP PUMP INSTALLATION



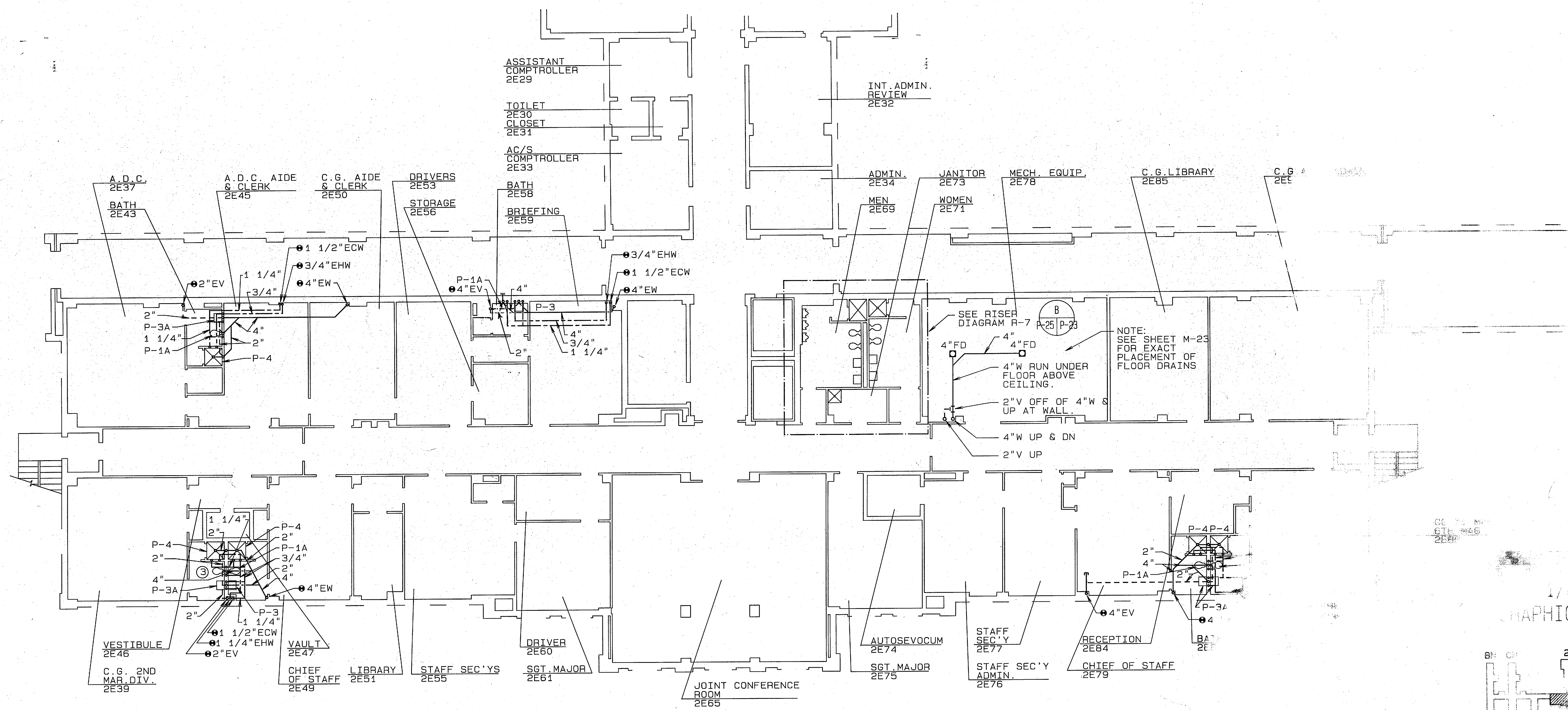
PLUMBING PLAN-1E SOUTH
1/8"=1'-0"

PROJECT NO.	1224
DATE	11-1-55
DESIGNED BY	GFN
CHECKED BY	
APPROVED BY	
DEPARTMENT OF THE NAVY	
NAVAL STATION	
MARINE CORPS BASE, PEARL AND HERMES ISLANDS	
CONVEY DIVISION	
OFFICE	
FOR THE P&E COMMANDER, NAVY	



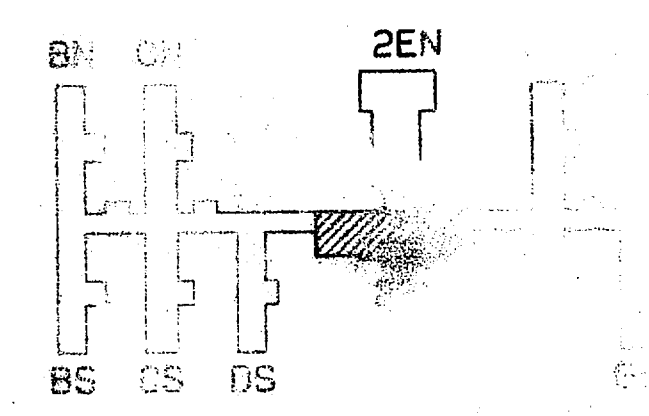
SYM
1 GENE

- NOTES:
1. FOR KEY NOTES SEE GENERAL NOTES SHEET P-17
 2. FOR GENERAL NOTES SEE SHEET P-17
 3. FOR GENERAL NOTES SEE SHEET P-17
 4. FOR 1/4" SCALE PLAN SEE DETAIL SHEET P-17



PLUMBING PLAN-2E SOUTH
1/8"=1'-0"

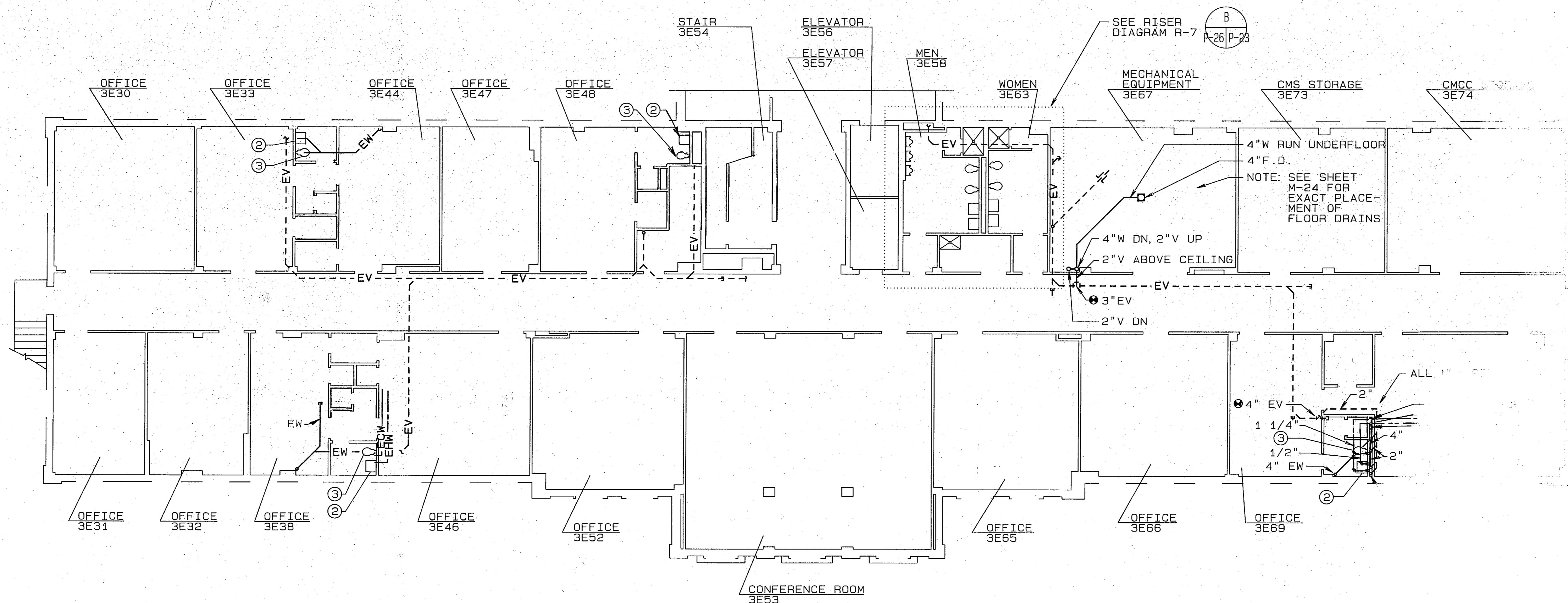
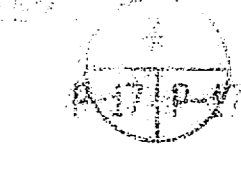
1/8" GRAPHIC SCALE



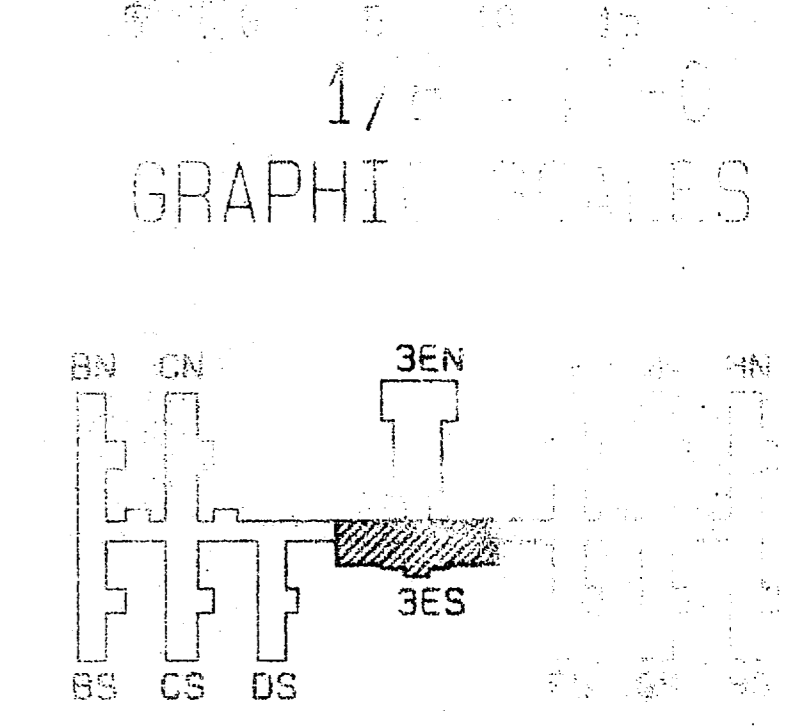
FERRELL ARCHITECTS & ASSOCIATES ARCHITECT PLUMBING	ATLANTA, GEORGIA 100 NORTH GAVELING	ATLANTA, GEORGIA MARINE CORPS BASE CONVERT DIVISION
DATE: 10/1/66	DATE: 10/1/66	DATE: 10/1/66
BY: [Signature]	BY: [Signature]	BY: [Signature]
DATE: 10/1/66	DATE: 10/1/66	DATE: 10/1/66

SYM	REVISION
1	GEN

- NOTES:
1. FOR KEY NOTES (CIRCLED NUMBERS) SEE SCHEDULE ON SHEET P-3.
 2. FOR GENERAL NOTES SEE SHEET P-1.
 3. FOR GENERAL NOTE NO. 7 SEE SHEET P-1.
 4. FOR 1/4" SCALE TOILET PLAN SEE DETAIL ON SHEET P-1.

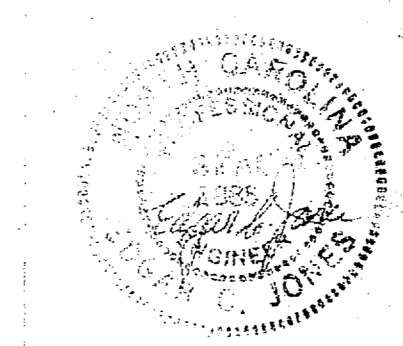


PLUMBING PLAN-3E SOUTH
1/8"=1'-0"

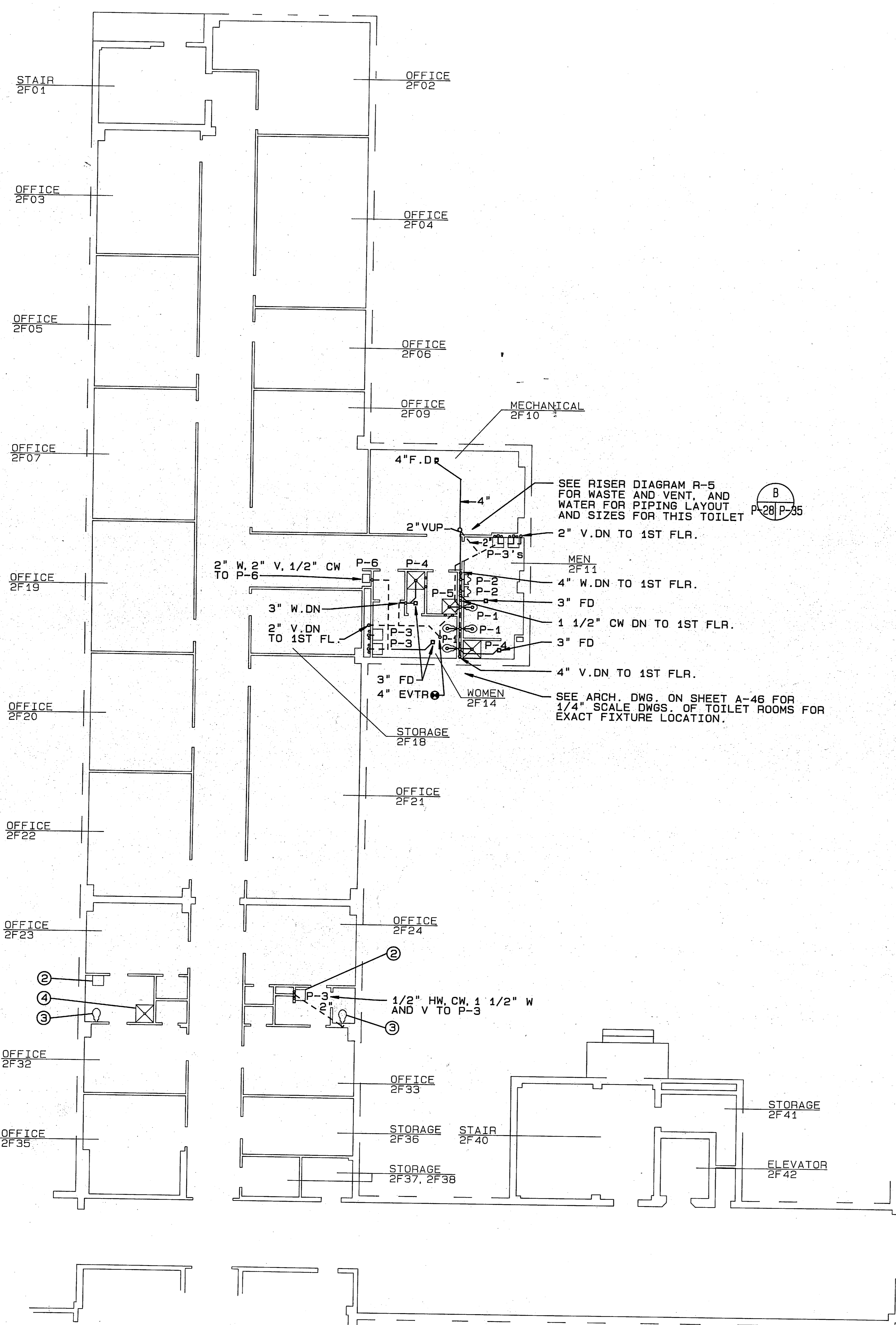


P-26

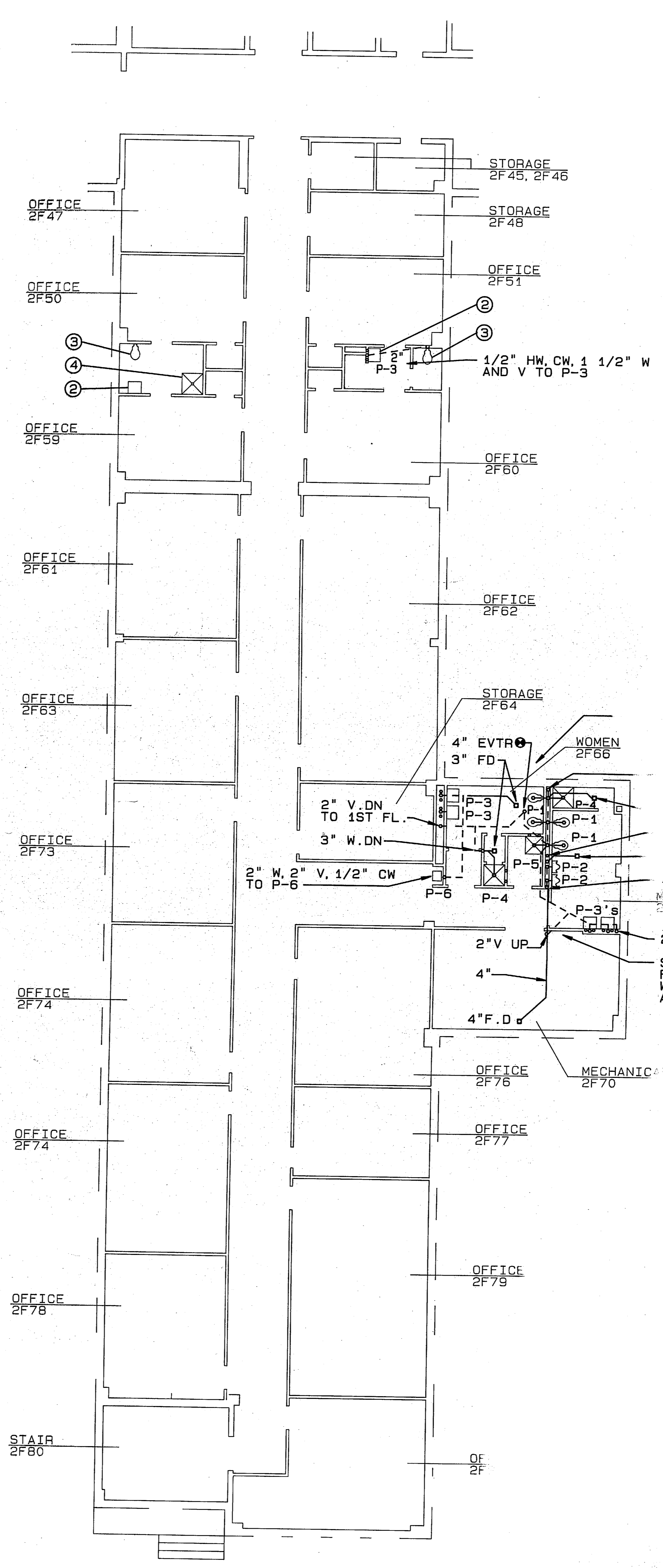
REECE, WALTERS & ASSOCIATES ARCHITECTURE LANDSCAPE DESIGN INTERIOR DESIGN CHARLOTTE, NORTH CAROLINA	DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: [Date]	PROJECT NO. [Number] SHEET NO. 103 OF 243







PLUMBING PLAN-2F NORTH
1/8"=1'-0"



PLUMBING PLAN-2F SOUTH
1/8"=1'-0"

- NOTES:
1. FOR K... SCHEDULE...
 2. FOR GE...
 3. FOR 1... SHEET...

SEE SHEET A-46 FOR
SCALE DWGS. OF TOILET ROOMS
AND 2F69 FOR EXACT FIXTURE LOCATI...

SEE RISER DIAGRAM R-5
FOR WASTE AND VENT. AND
WATER FOR PIPING LAYOUT
AND SIZES FOR THIS TOILET

SEE RISE...
FOR WASTE...
WATER FOR...
AND SIZES...
FOR THIS TOILET

GRAPH

BS

DEPARTMENT OF THE NAVY
NAVAL STATION
MARINE CORPS
DIVISION

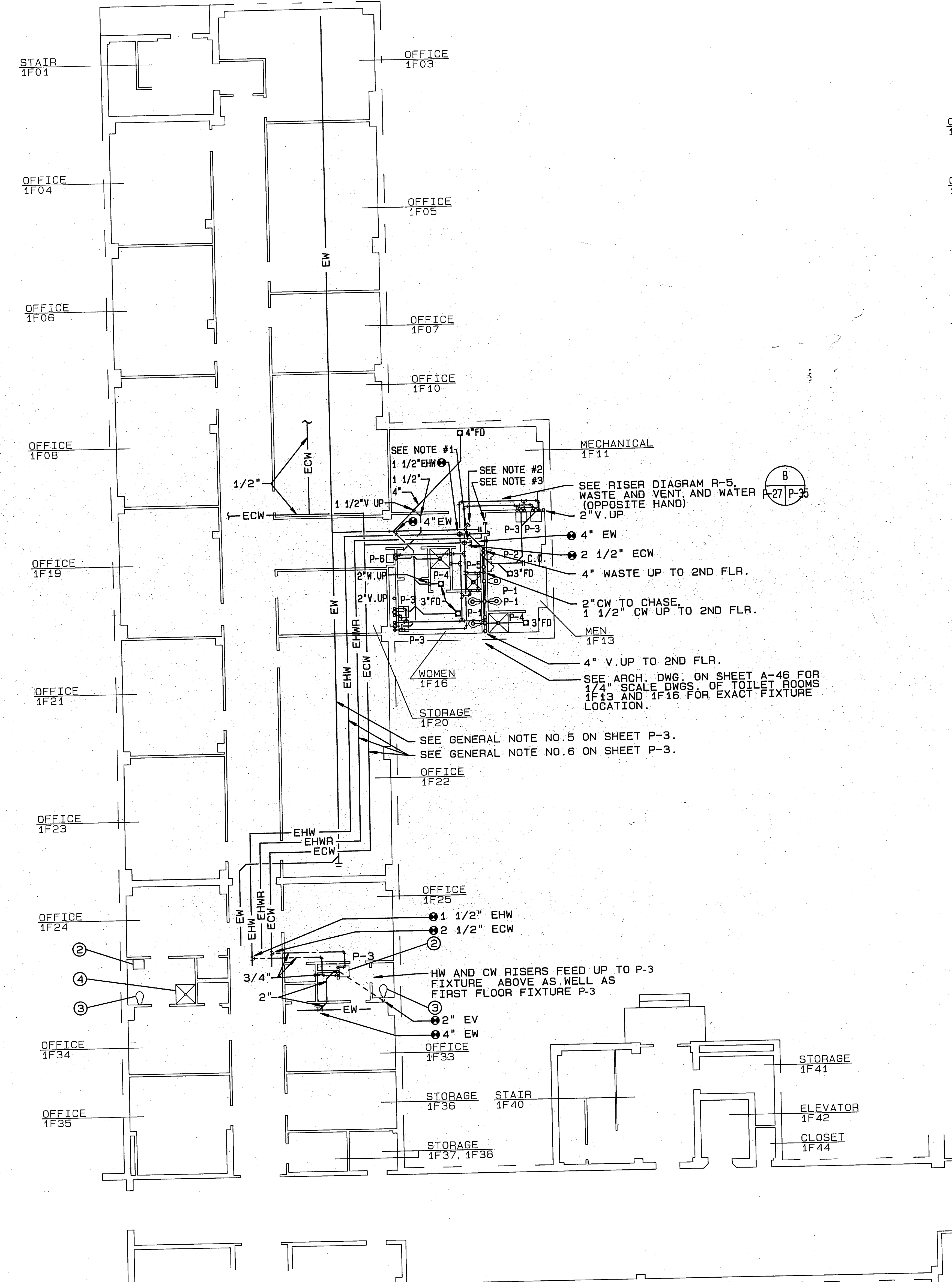
SCALE: 1/8"=1'-0"



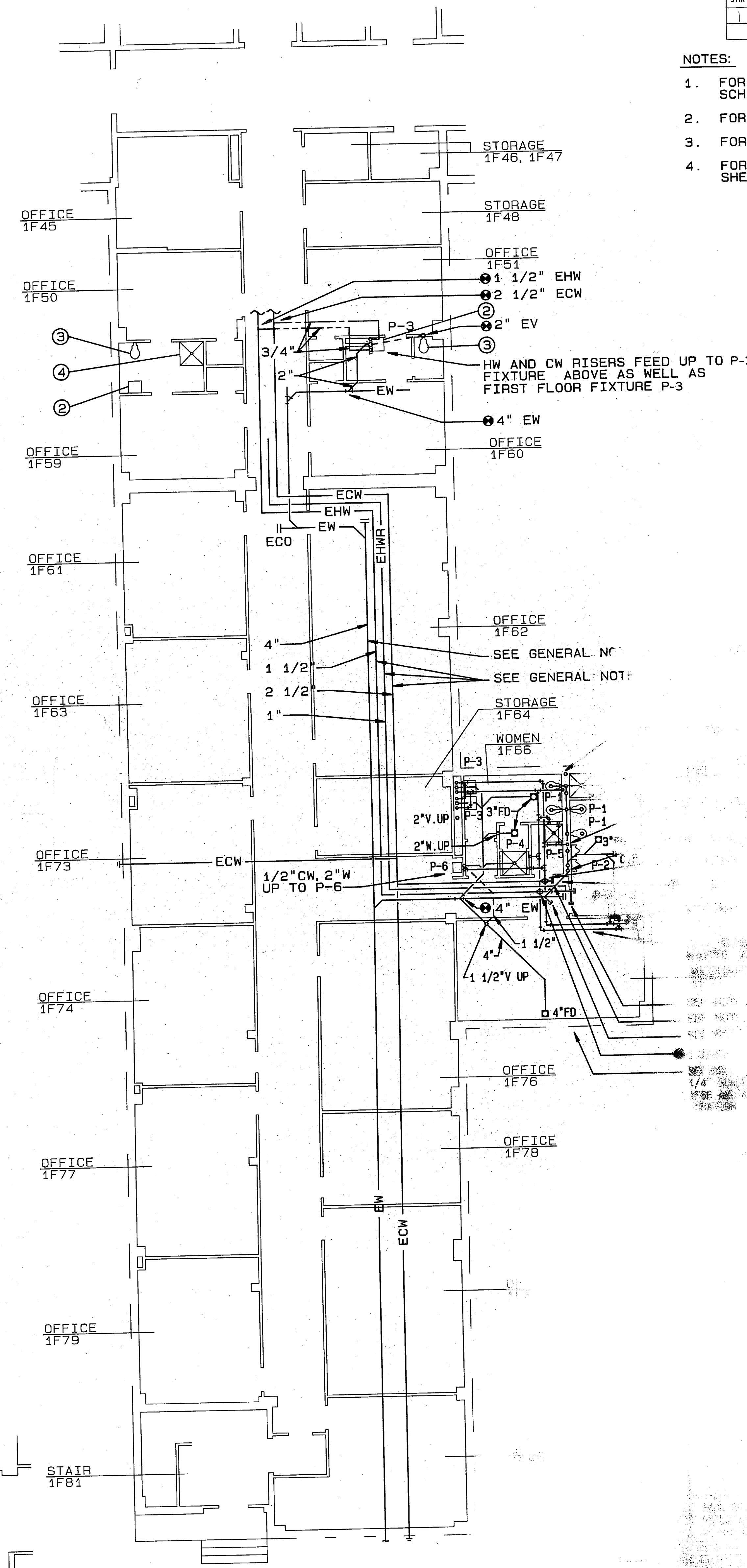
SYM
I GENE

NOTES:

1. FOR KEY N...
2. FOR GENERA...
3. FOR GENERA...
4. FOR 1/4" S...



PLUMBING PLAN - 1F NORTH
SCALE: 1/8"=1'-0"

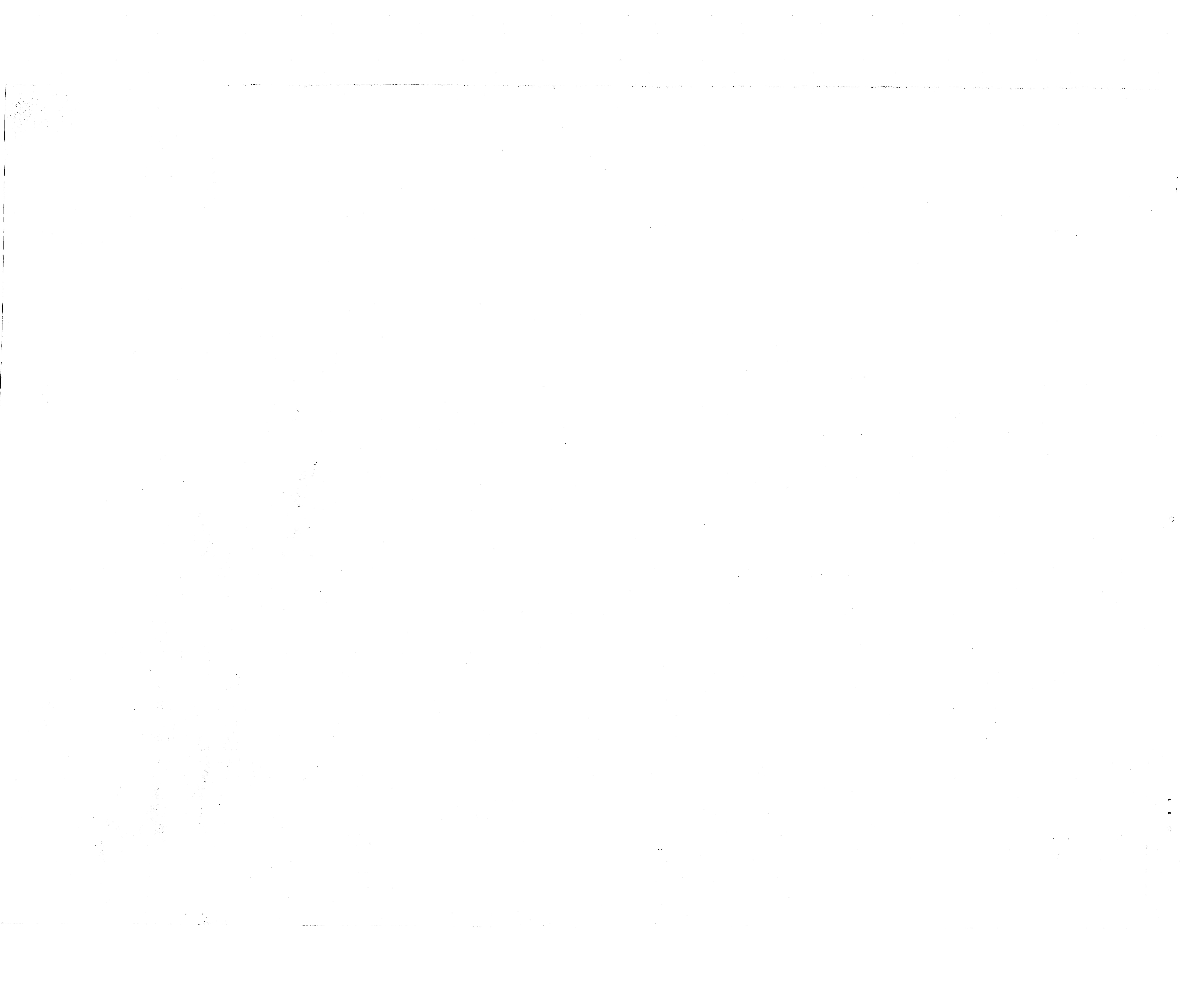


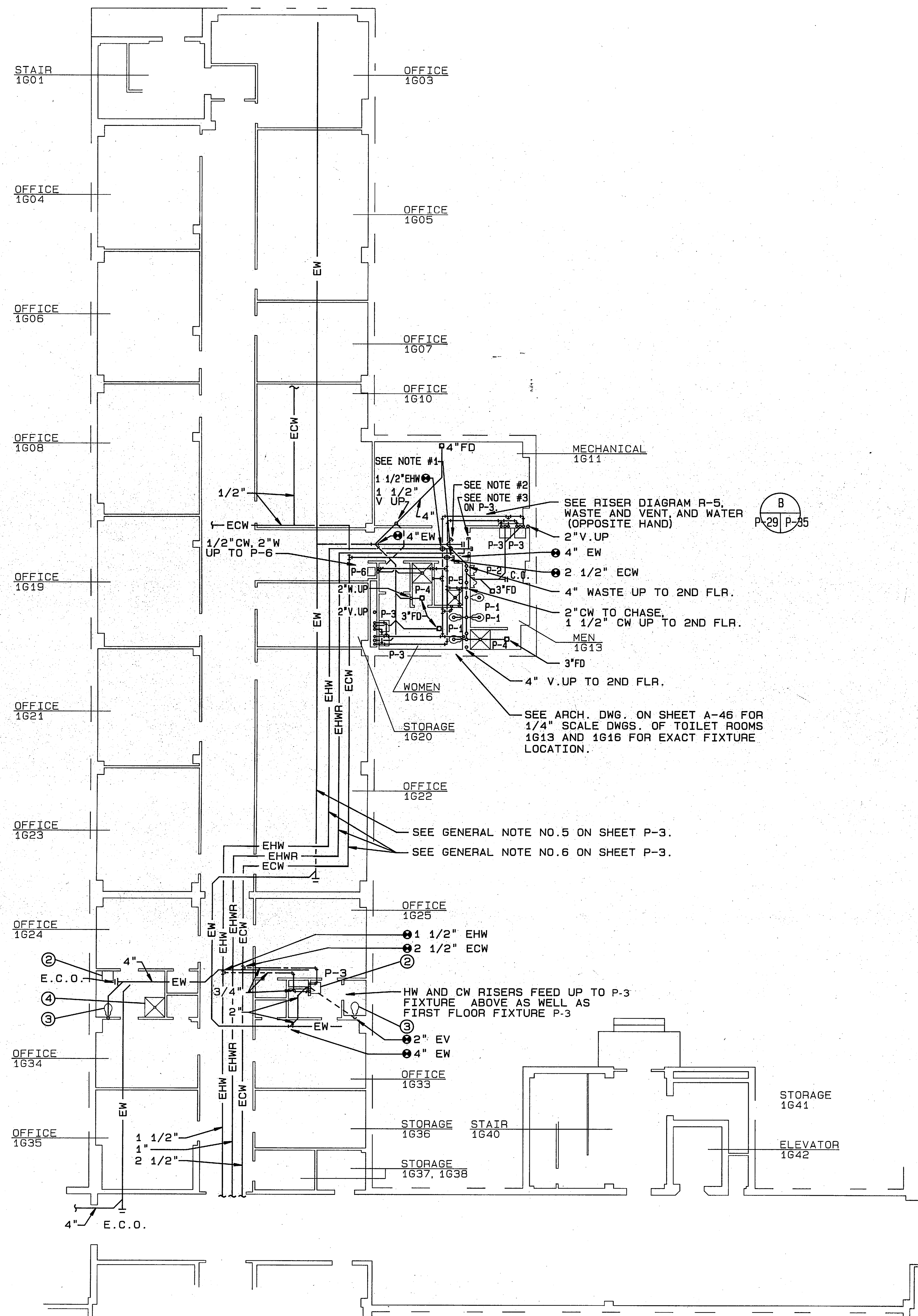
PLUMBING PLAN - 1F SO
SCALE: 1/8"=1'-0"

AS BS CS D

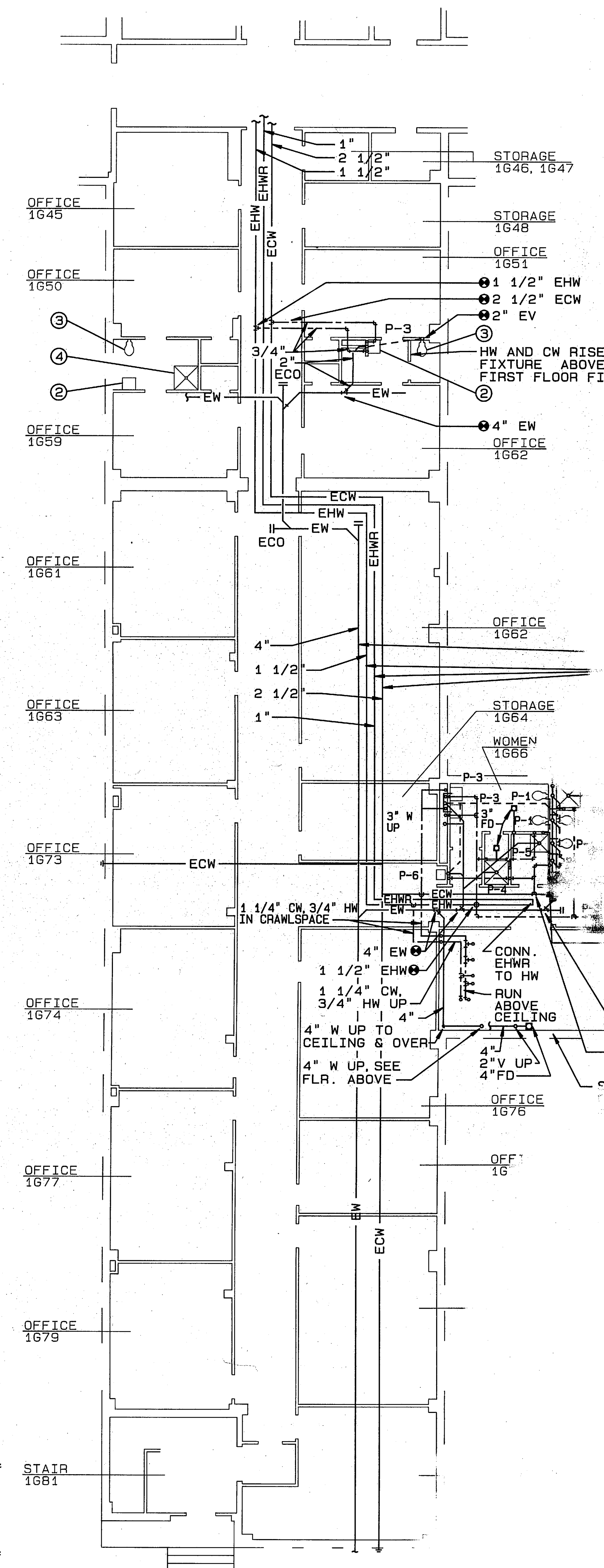
CON

AS BS CS D





PLUMBING PLAN-1G NORTH
1/8"=1'-0"



PLUMBING PLAN-1G SOUTH
1/8"=1'-0"

SYM	GE
-----	----

- NOTES:
1. FOR KEY SCHEDULE
 2. FOR GENERAL
 3. FOR GENERAL
 4. FOR 1/4 SHEET P

SEE RISER DIAGRAM R-5, WASTE AND VENT, AND WATER (OPPOSITE HAND)

SEE ARCH. DWG. ON SHEET A-46 FOR 1/4" SCALE DWGS. OF TOILET ROOMS 1613 AND 1616 FOR EXACT FIXTURE LOCATION.

GENERAL NOTE NO. 1 ON SHEET P-3

GENERAL NOTE NO. 2 ON SHEET P-3

GENERAL NOTE NO. 3 ON SHEET P-3

GENERAL NOTE NO. 4 ON SHEET P-3

GENERAL NOTE NO. 5 ON SHEET P-3

GENERAL NOTE NO. 6 ON SHEET P-3

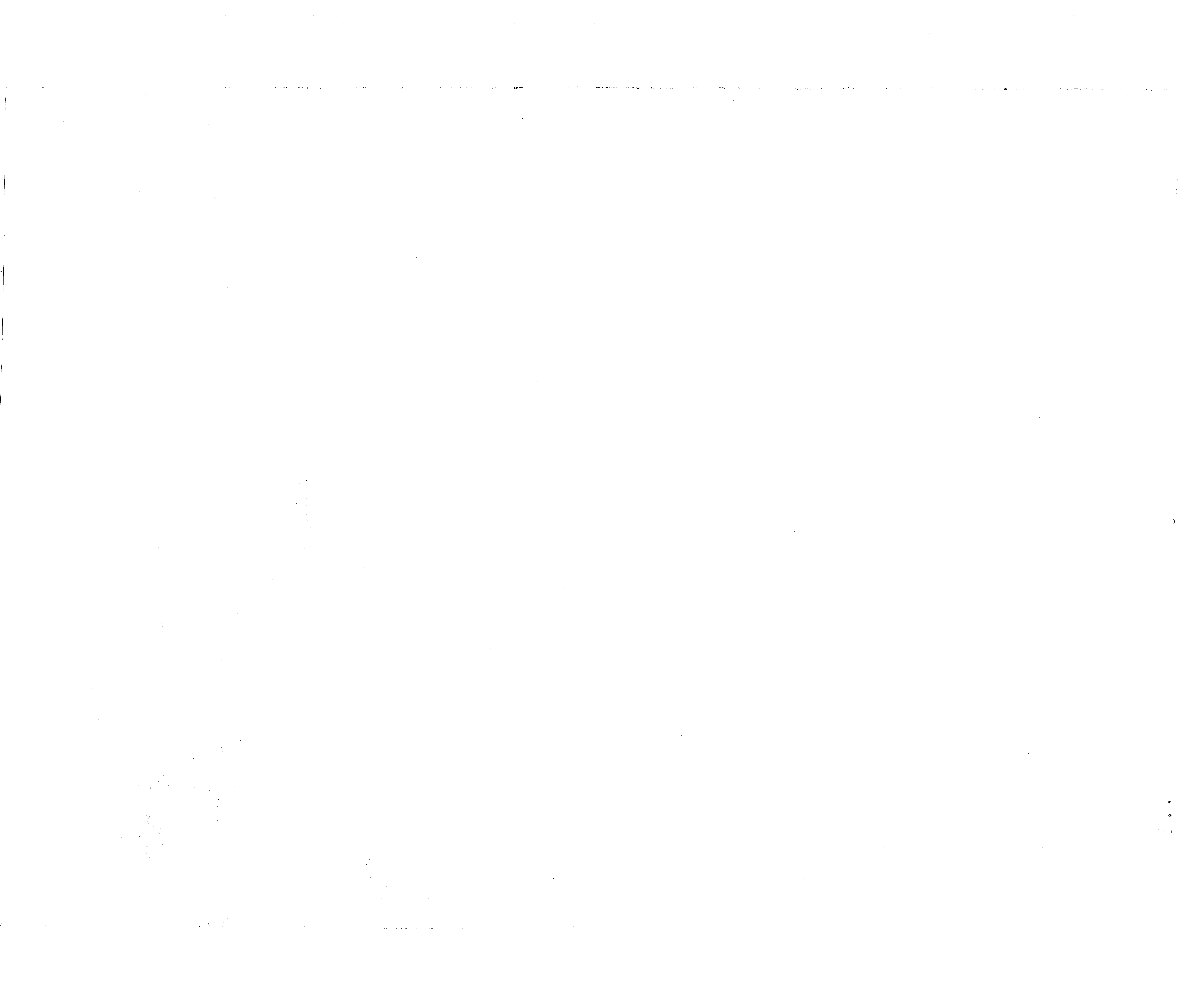
REVISIONS

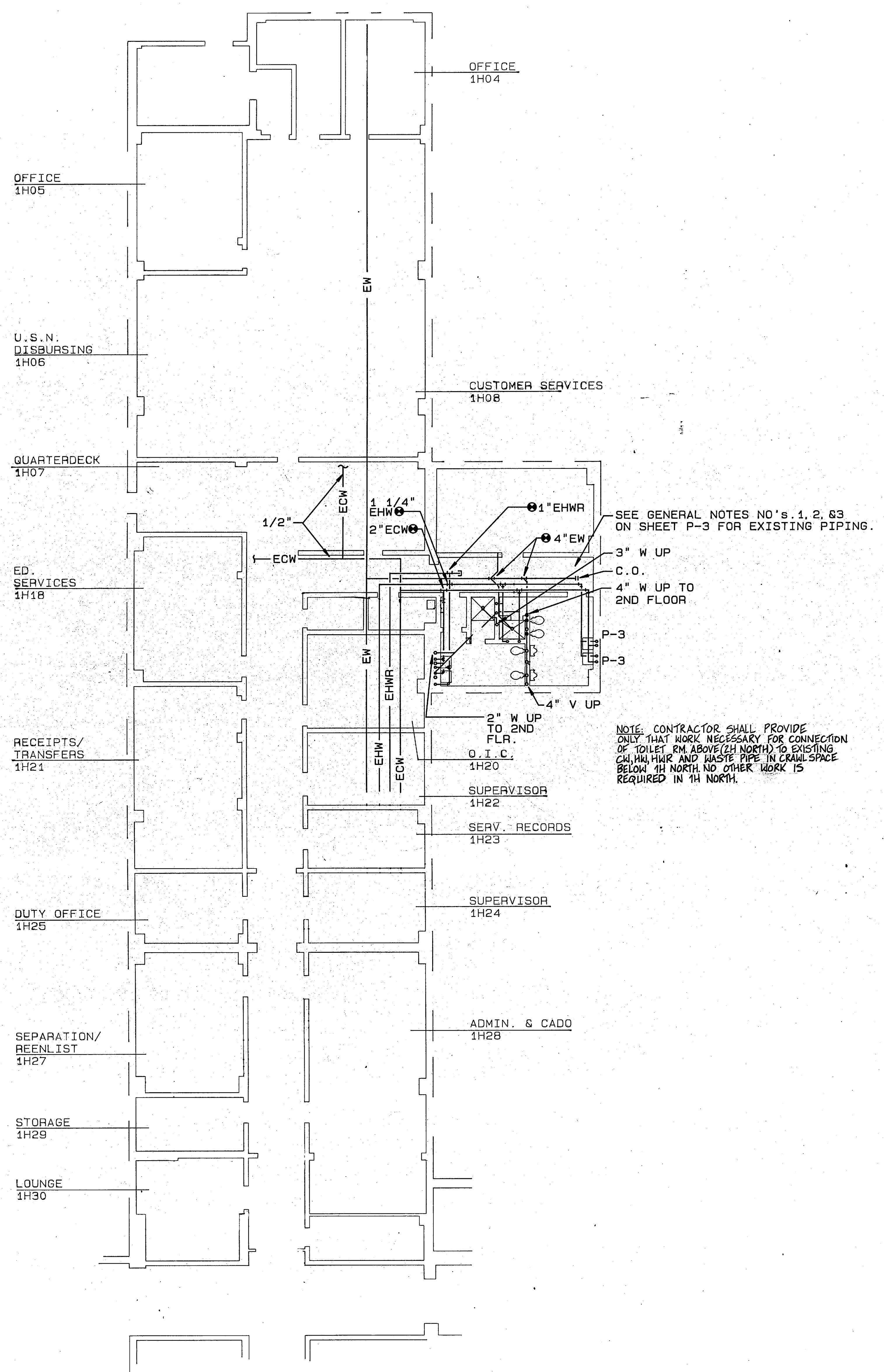
NO.	DATE	DESCRIPTION
1	11/17/68	ISSUED FOR PERMITS
2	12/10/68	REVISED TO SHOW CHANGES

APPROVED BY: [Signature]

DATE: 12/10/68

FOR THE PROJECT: [Project Name]

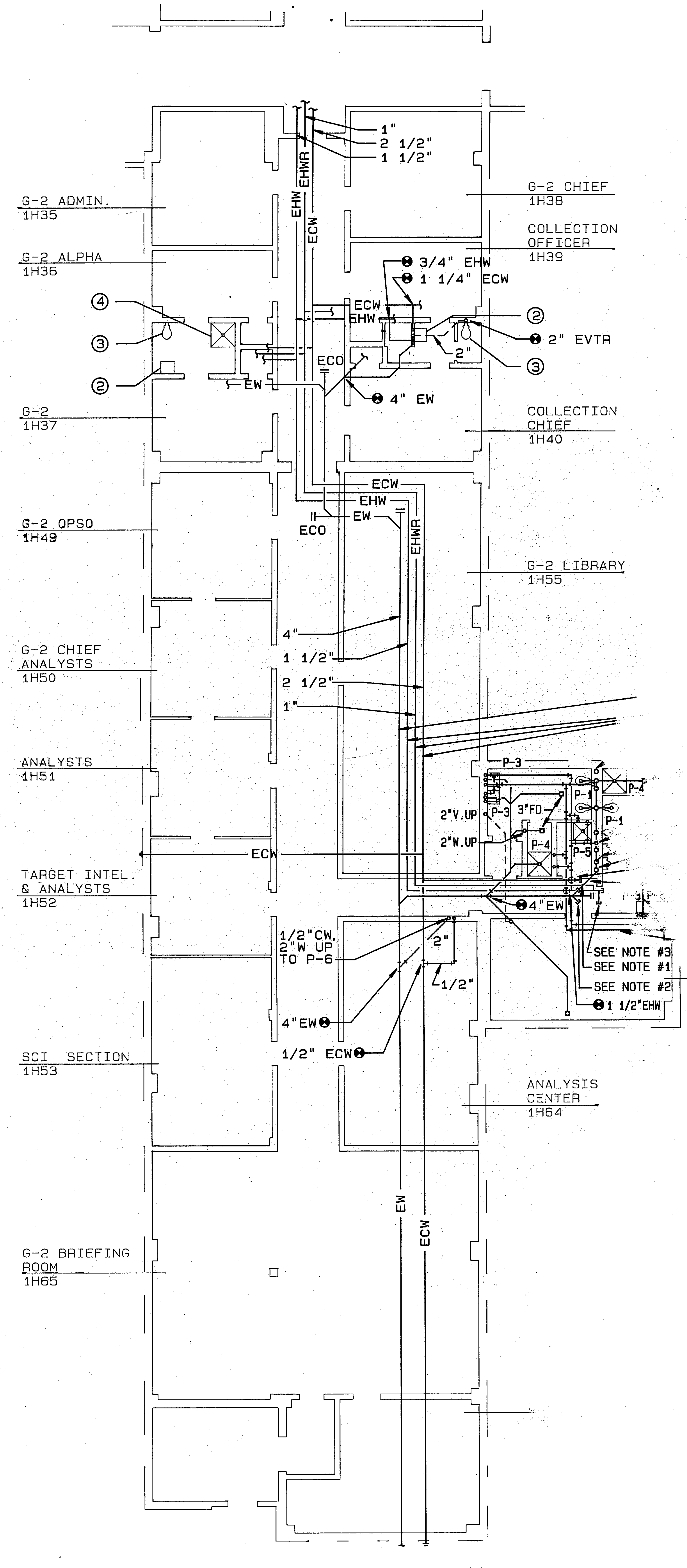




PLUMBING PLAN-1H NORTH
1/8"=1'-0"

SEE GENERAL NOTES NO'S. 1, 2, & 3 ON SHEET P-3 FOR EXISTING PIPING.

NOTE: CONTRACTOR SHALL PROVIDE ONLY THAT WORK NECESSARY FOR CONNECTION OF TOILET RM ABOVE (2H NORTH) TO EXISTING CULVERT AND WASTE PIPE IN CRANK SPACE BELOW 1H NORTH. NO OTHER WORK IS REQUIRED IN 1H NORTH.



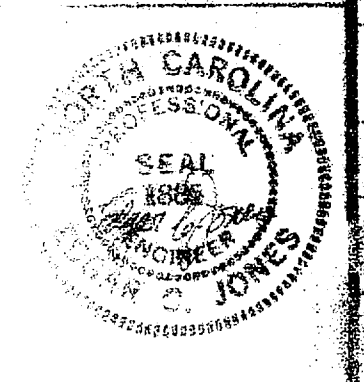
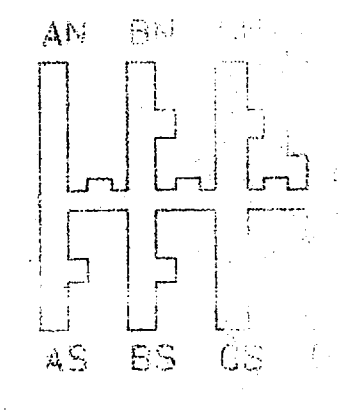
PLUMBING PLAN-1H SOUTH
1/8"=1'-0"

- | | |
|-----|--|
| SYM | |
| 1 | |
- NOTES:
1. FOR KE SCHEDULE
2. FOR GEN
3. FOR GEN
4. FOR 1 SHEET

NOTE NO. 5 ON SHEET P-3
NOTE NO. 6 ON SHEET P-3

TO 2ND FL
UP TO 2ND FLR

SEE NOTE #3
SEE NOTE #1
SEE NOTE #2
1/2" EHW



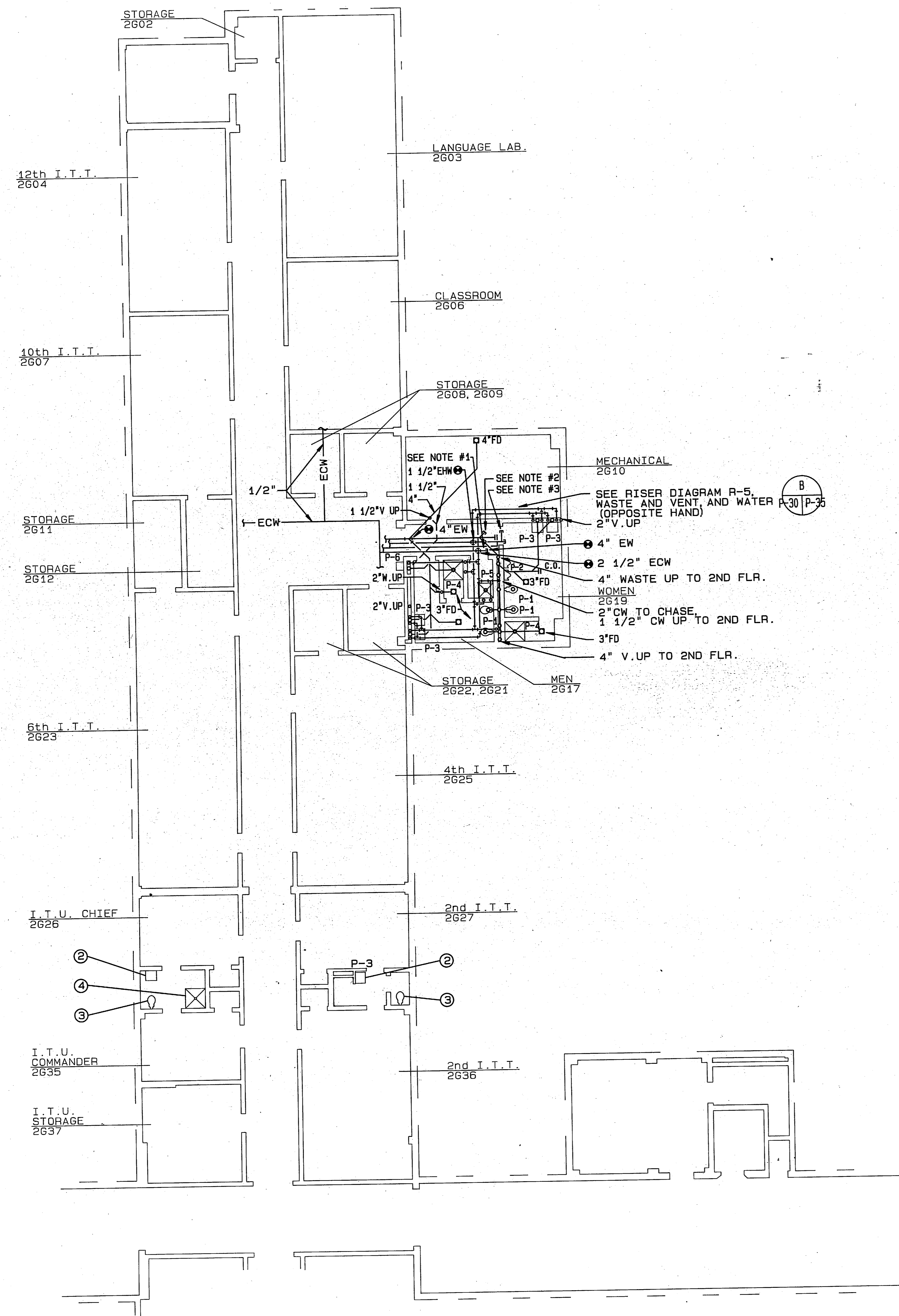
D. G. GARDNER & ASSOCIATES		DEPARTMENT OF THE NAVY
PROJECT NO. 100-100-100	DATE 11/18/78	NAVAL STATION
CLIENT USN	DR. W. H. L. CH. B. 1	NAVAL STATION
ENGINEER D. G. GARDNER	DATE 11/18/78	NAVAL STATION
PROJECT MANAGER	DATE	NAVAL STATION
OFFICER IN CHARGE	DATE	NAVAL STATION
FOR THE COMMANDER	DATE	NAVAL STATION



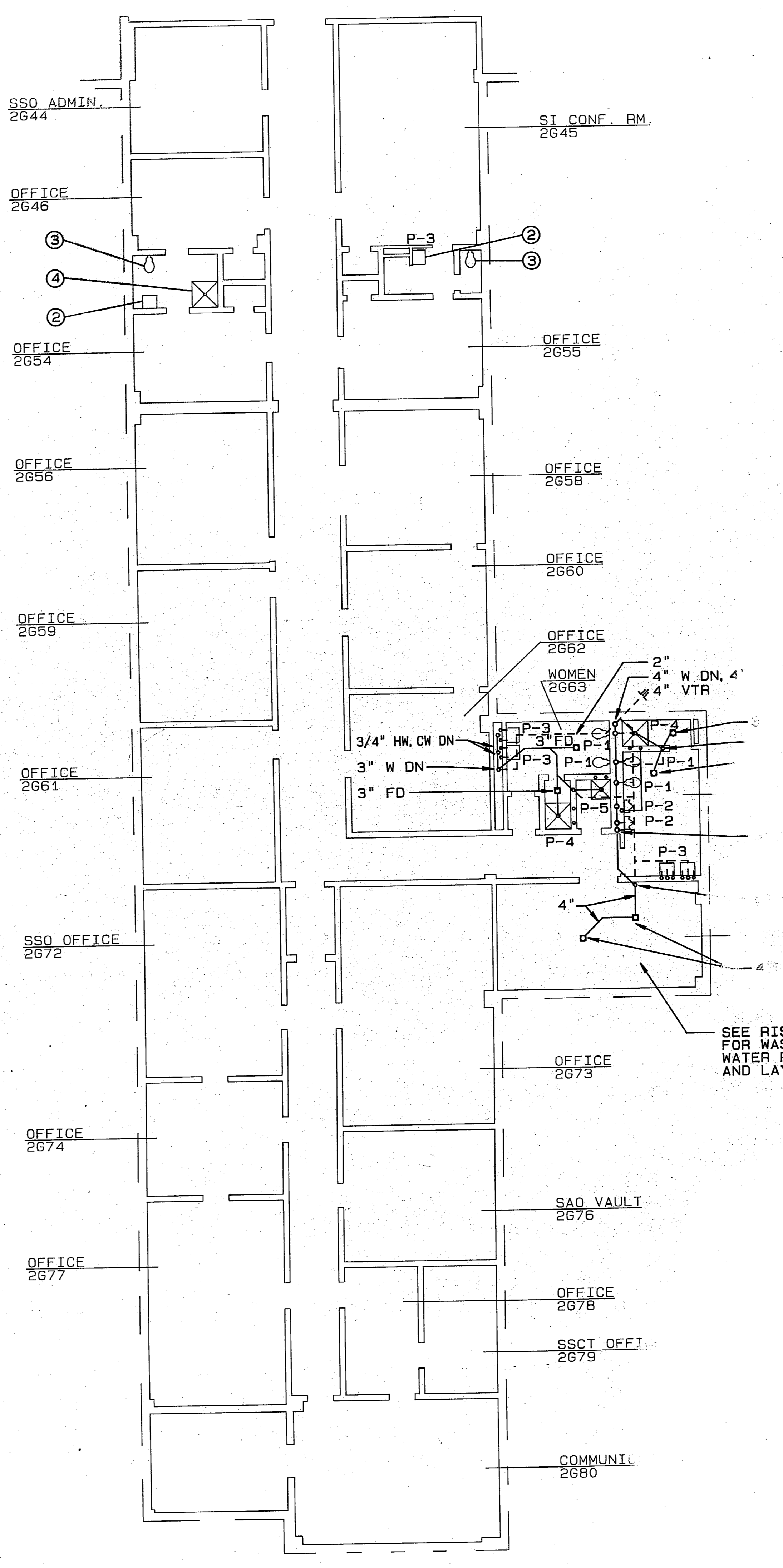
SYM
I GENERAL

NOTES:

1. FOR KEY NOTES SEE GENERAL NOTES SCHEDULE ON SHEET P-1
2. FOR GENERAL NOTES
3. FOR 1/4" SCALE SEE SHEET P-1



PLUMBING PLAN-2G NORTH
1/8"=1'-0"



PLUMBING PLAN-2G SOUTH
1/8"=1'-0"

APPROVED: [Signature]

DATE: 11/10/70

PROJECT: [Illegible]

DESIGNER: [Illegible]

CHECKED: [Illegible]

SCALE: 1/8"=1'-0"

NO. 3

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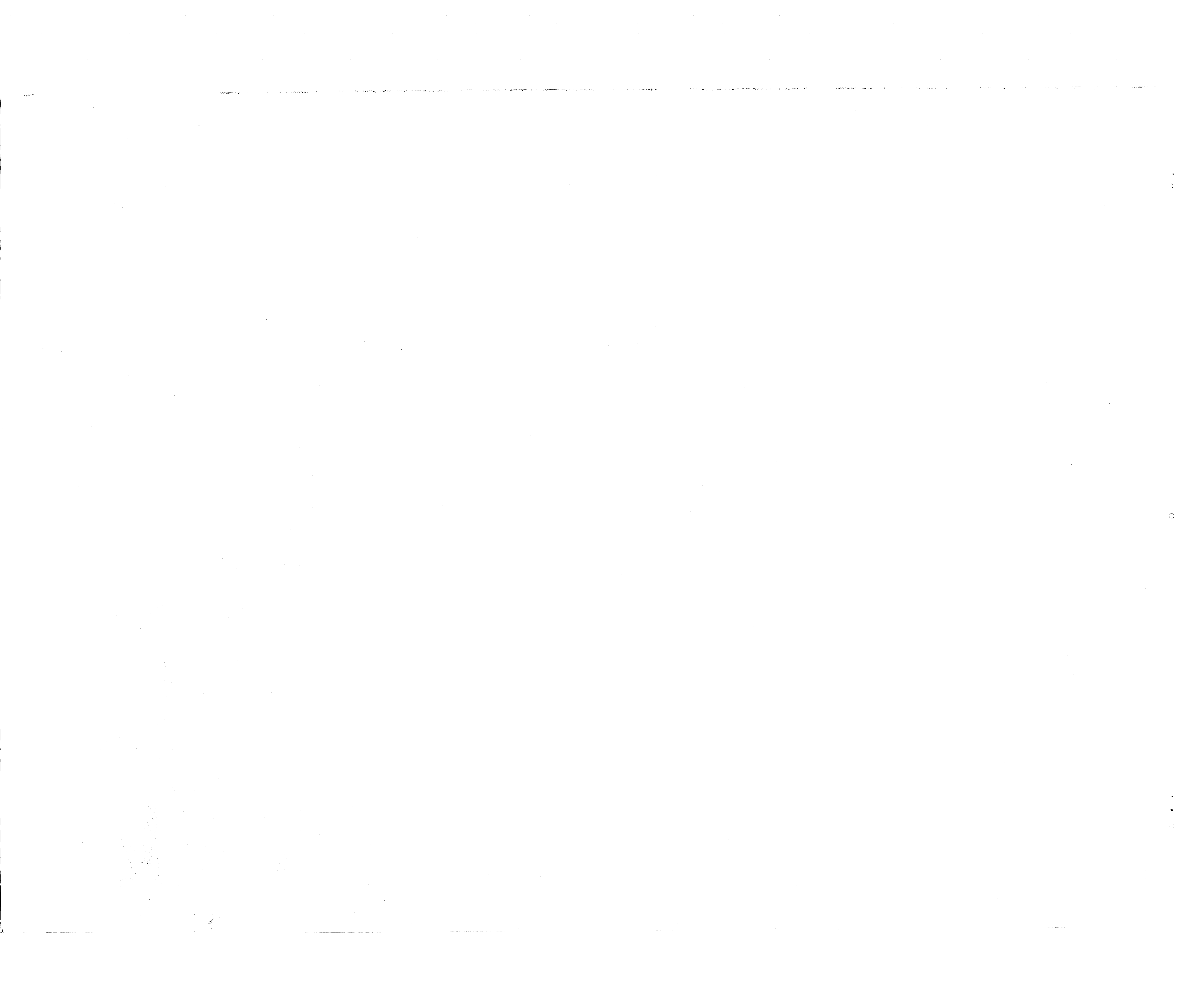
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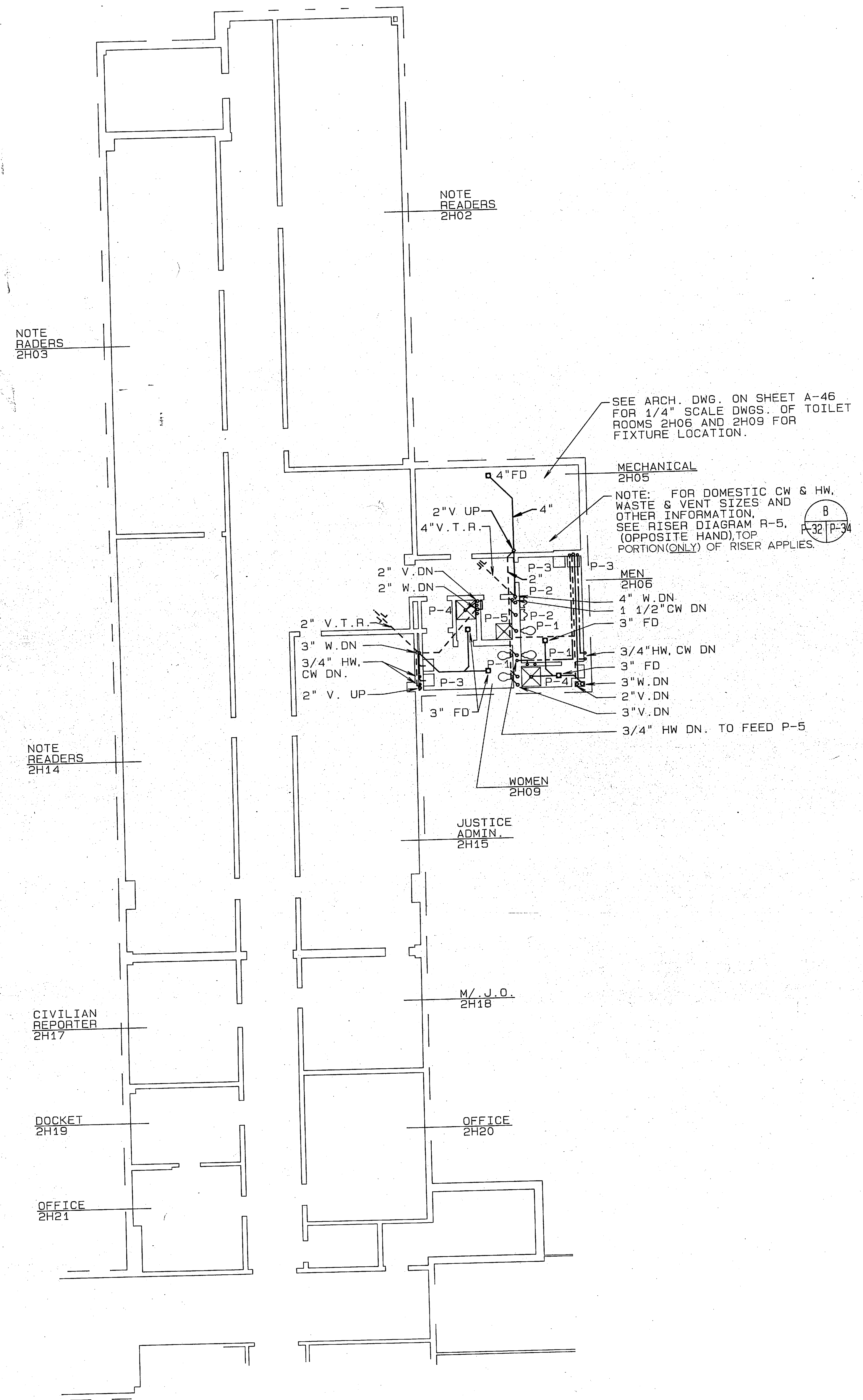
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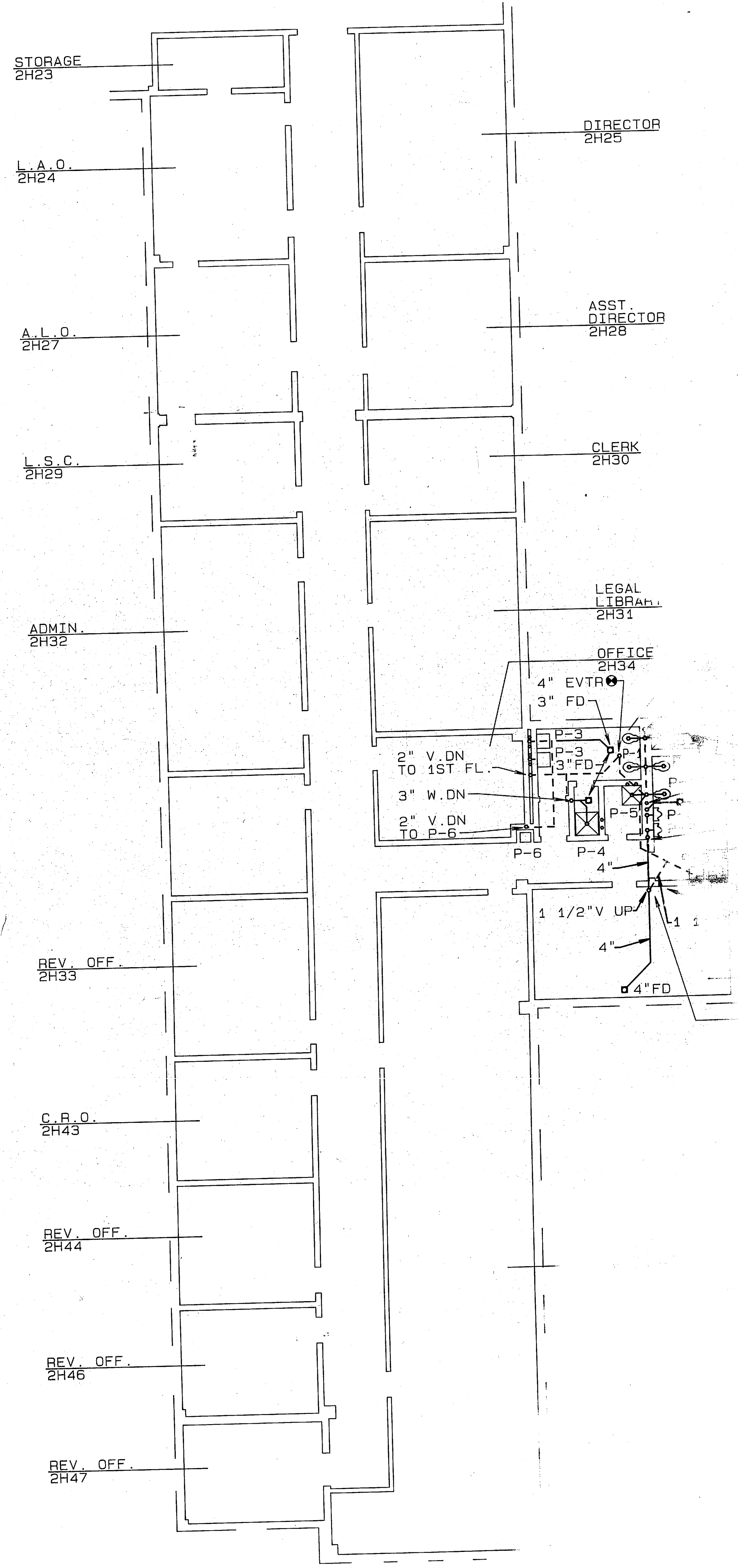
SYN
1 GENERAL

NOTES:

1. FOR KEY NOTES SEE SCHEDULE ON SHEET P-1
2. FOR GENERAL NOTES SEE SHEET P-1
3. FOR 1/4" SCALE DWGS. OF TOILET ROOMS 2H06 AND 2H09 FOR FIXTURE LOCATION.

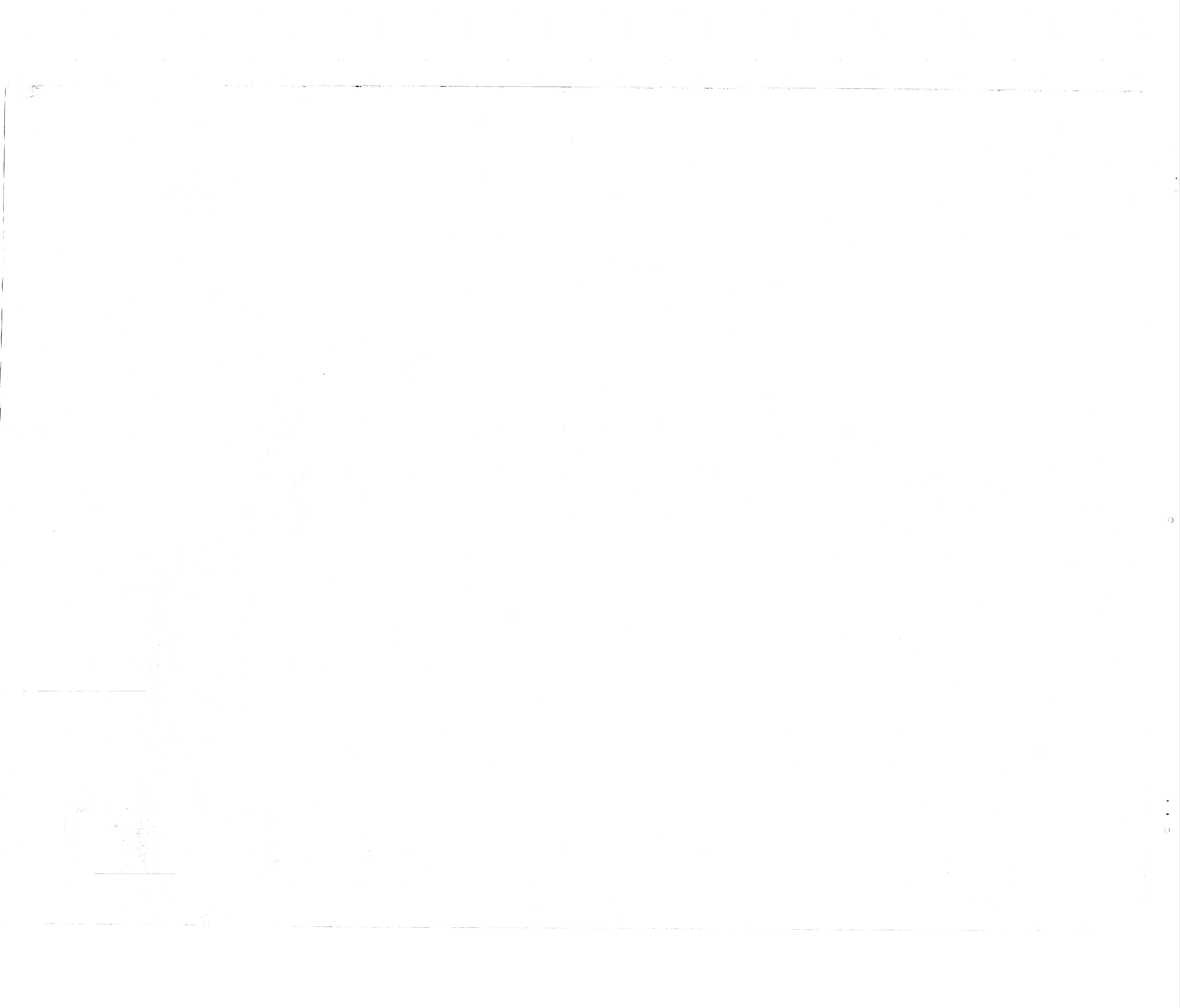


PLUMBING PLAN-2H NORTH
1/8"=1'-0"

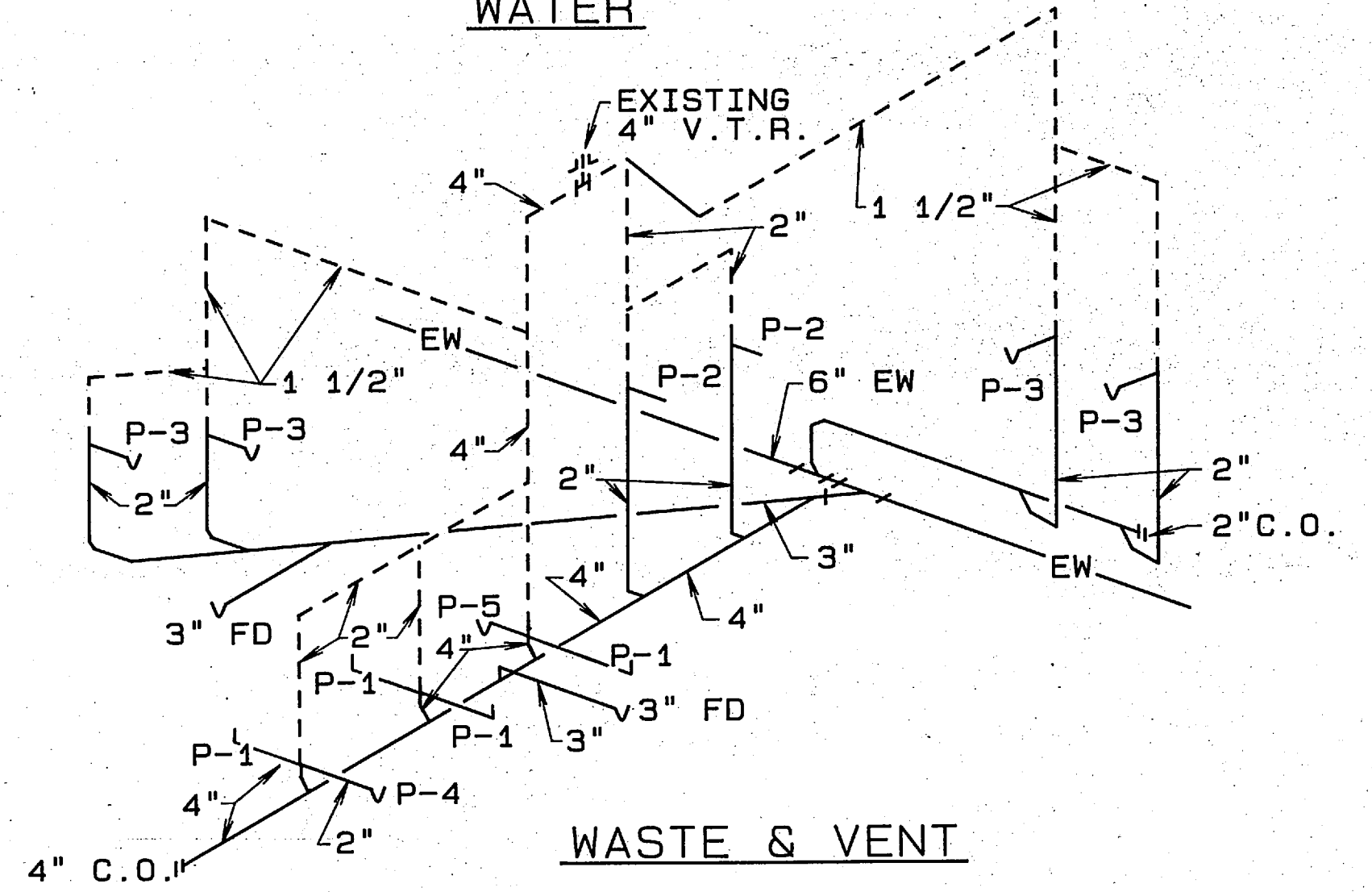
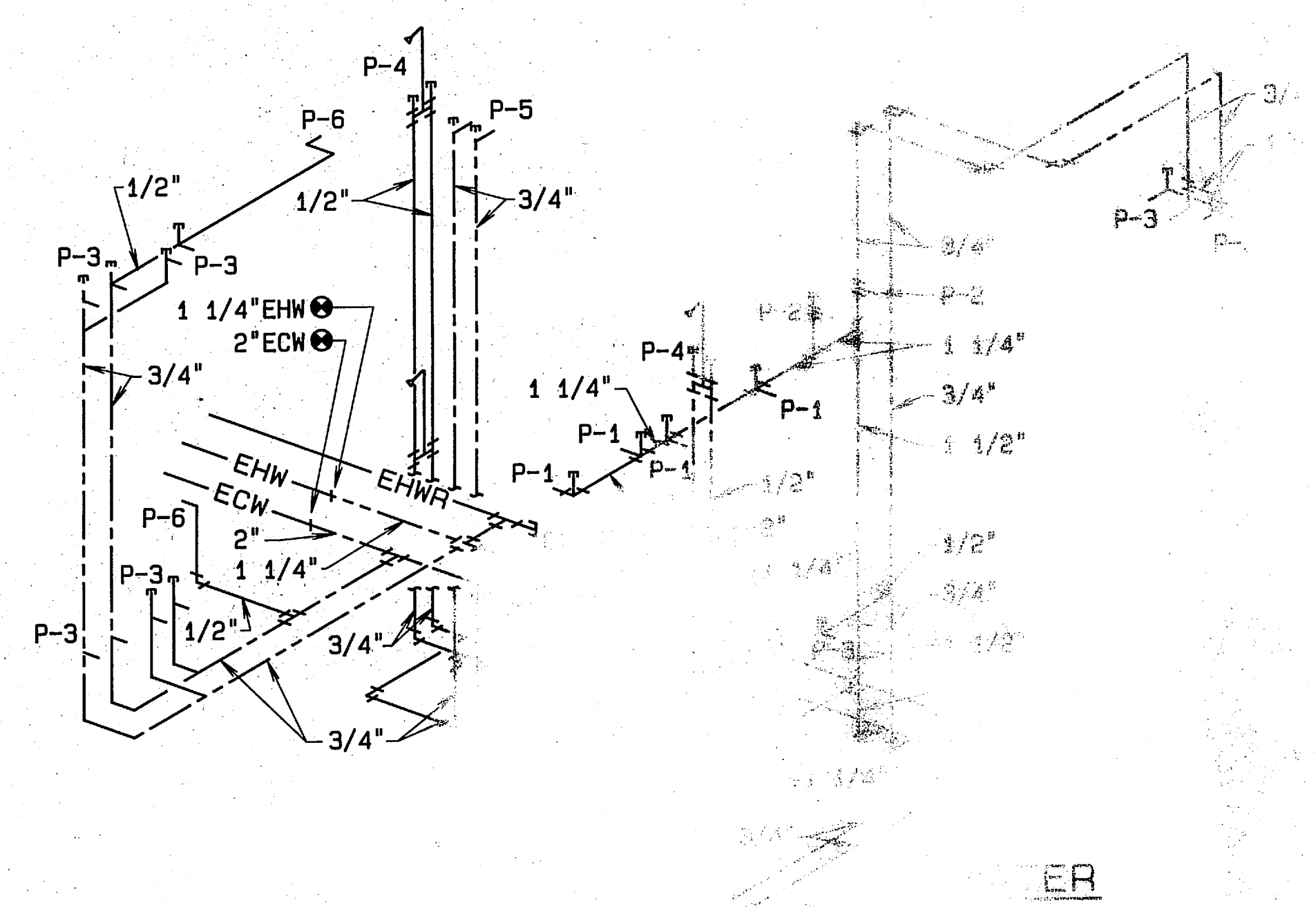
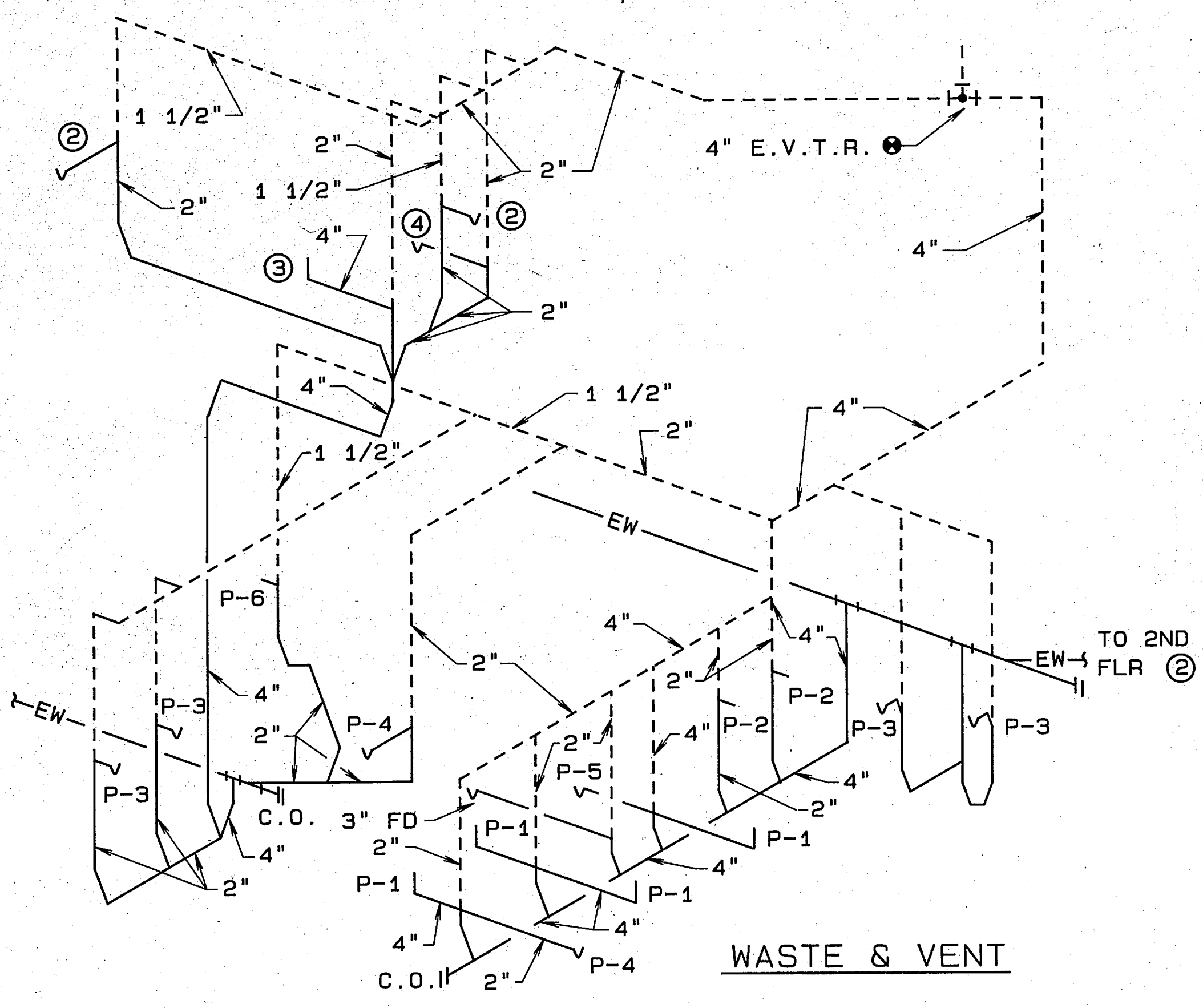
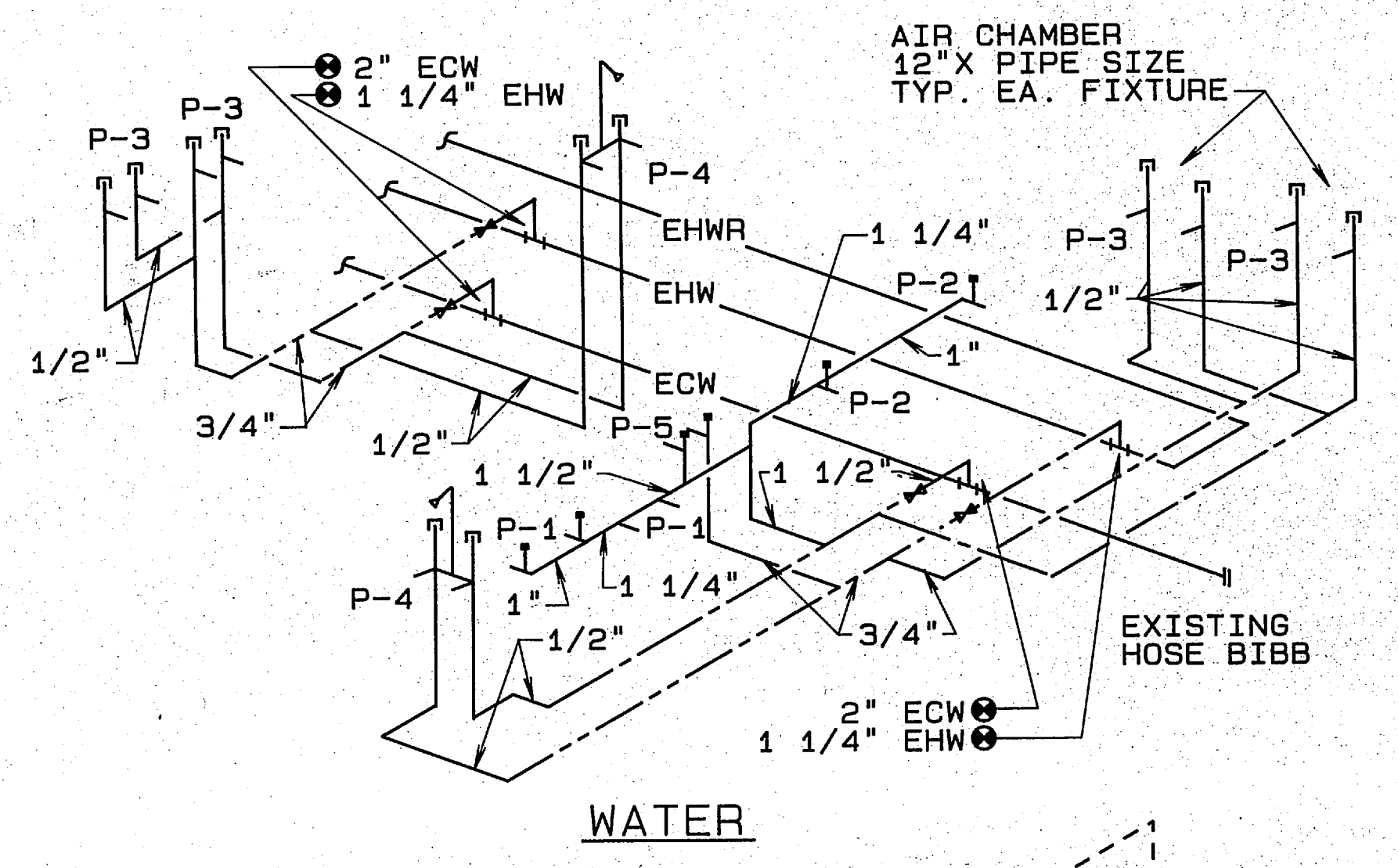
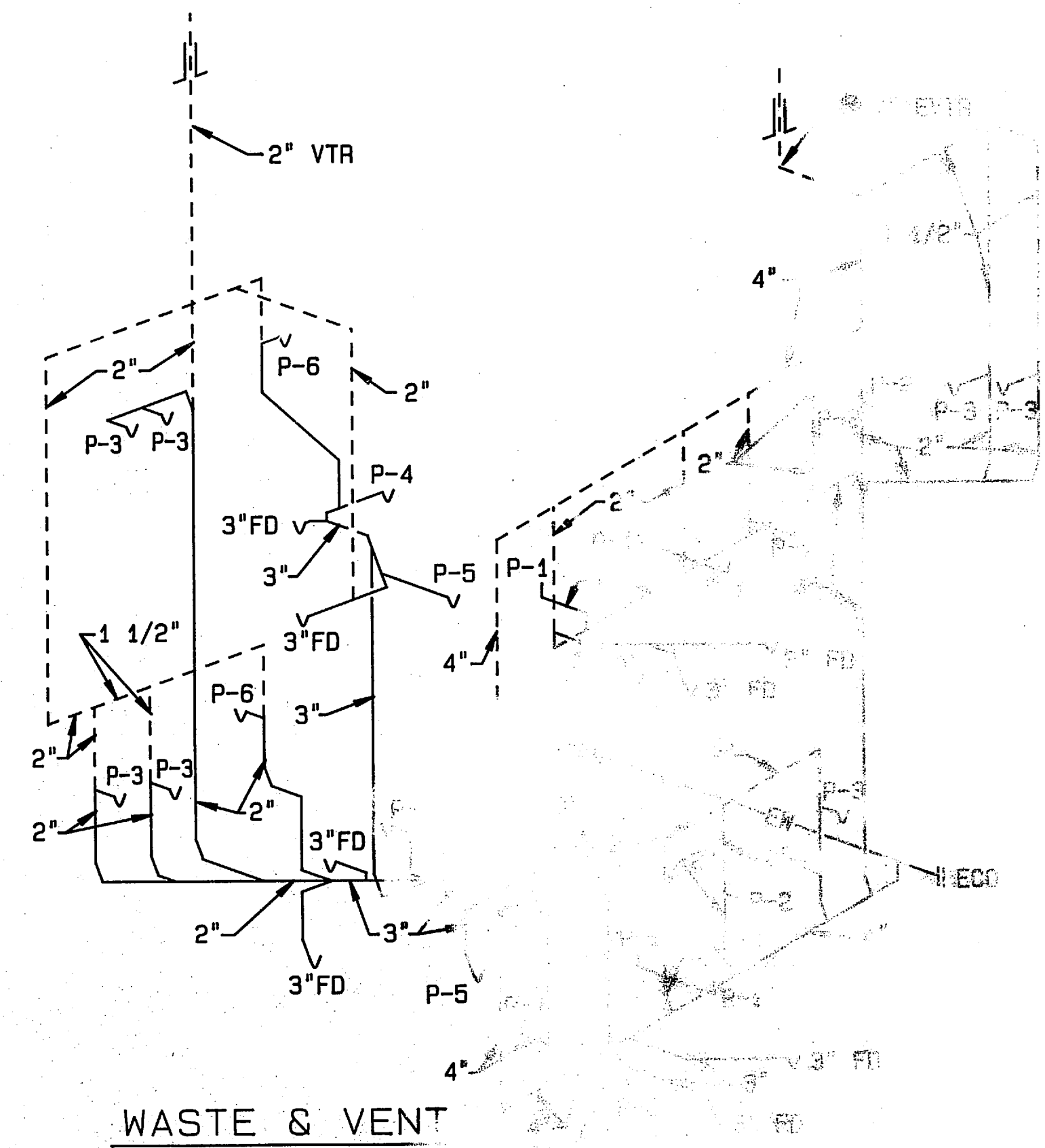
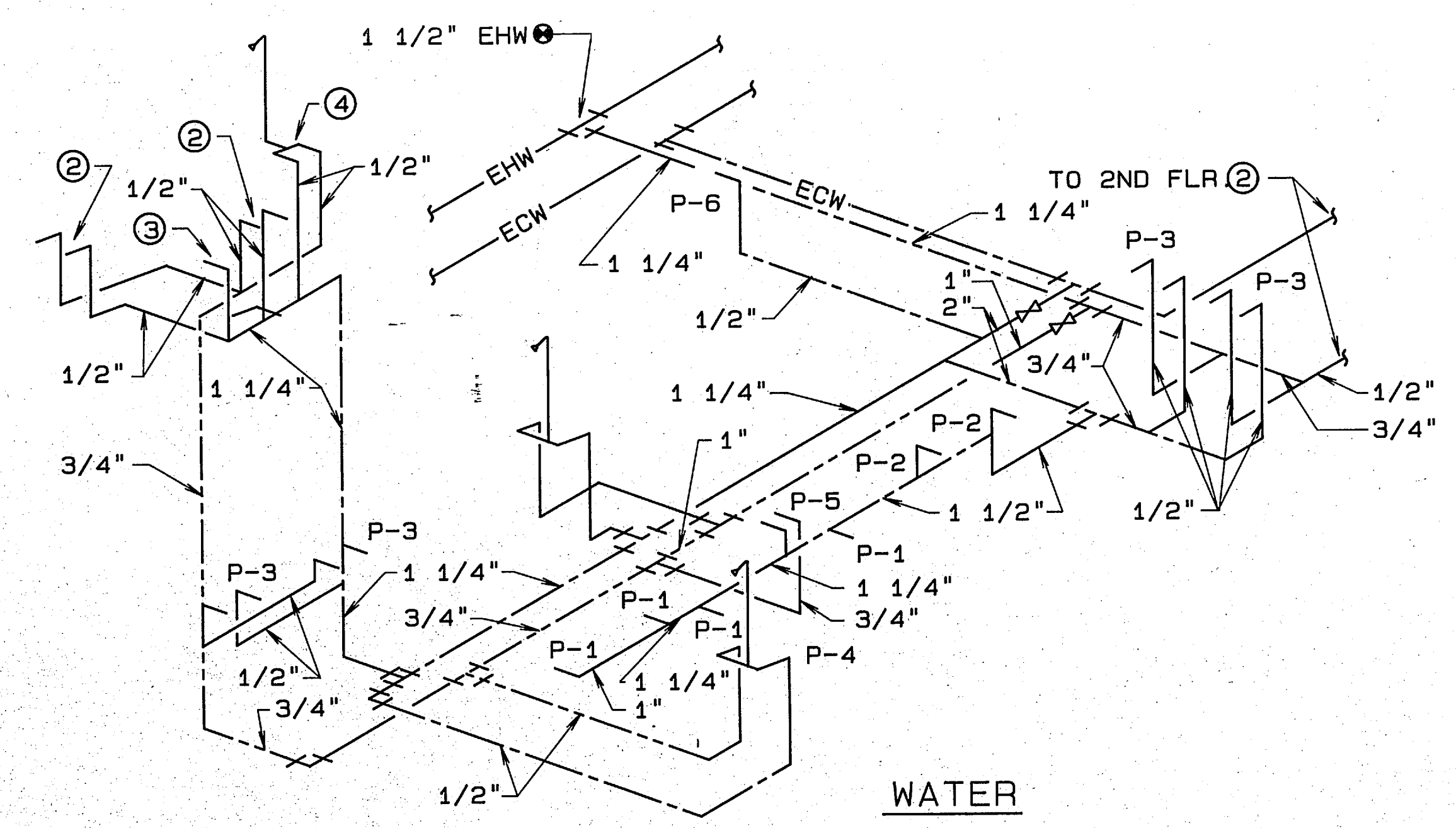


PLUMBING PLAN-2H SOUTH
1/8"=1'-0"

DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: 17 May 68 SCALE: 1/8"=1'-0"	DEPARTMENT OF THE NAVY NAVAL STATION MARINE CORPS COM DIV PLAN
---	---



SYM	1	SEE
-----	---	-----



A
RISER DIAGRAM R-1
 NO SCALE
 NOTE: THIS RISER DIAGRAM IS OPPOSITE HAND FOR THE TOILET ROOM ON 1J NORTH.

B
RISER DIAGRAM R-2
 NO SCALE

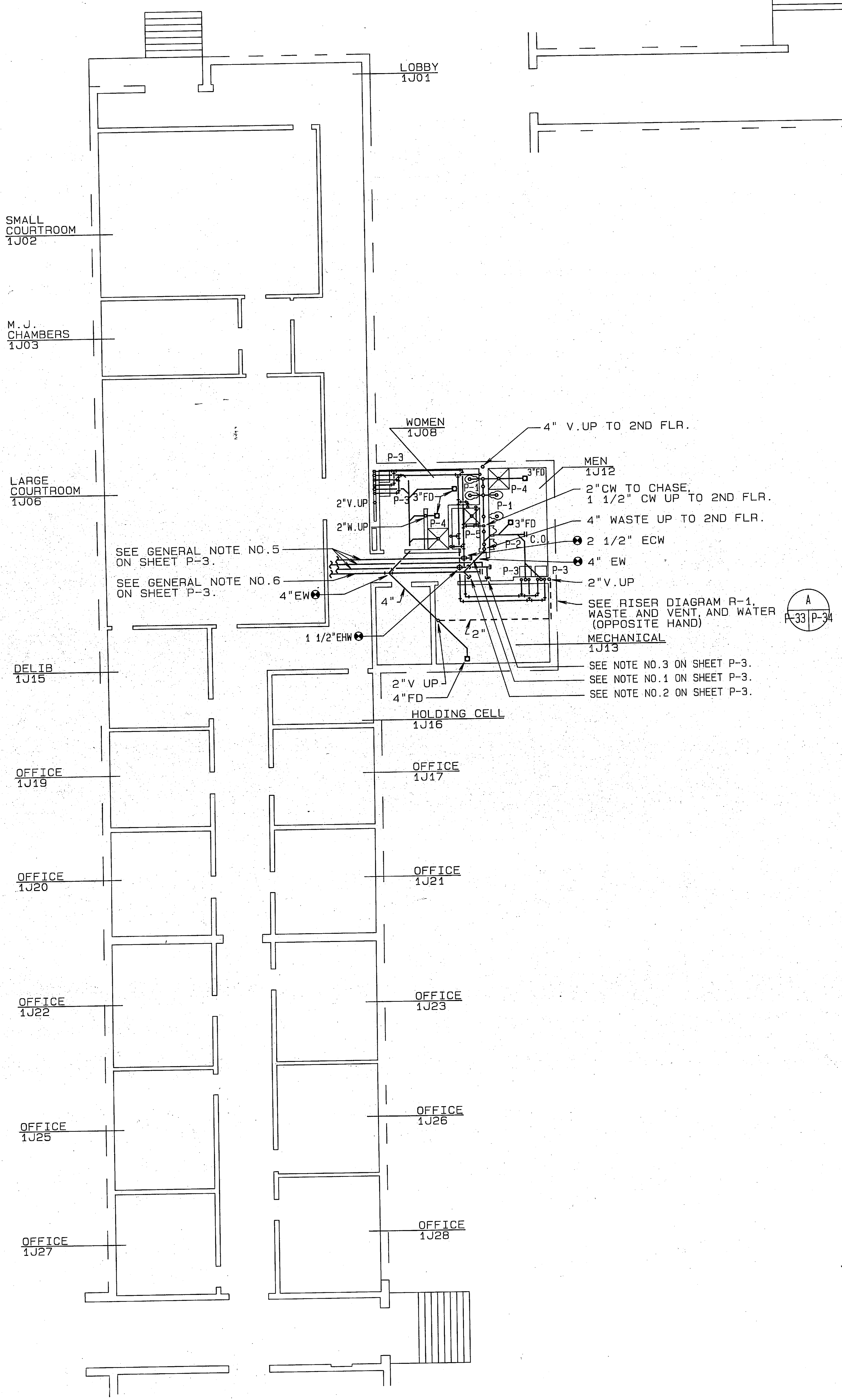
C
RISER DIAGRAM R-2
 NO SCALE

PROJECT NO. 1000000000		DATE 10/1/50	
DRAWN BY [Signature]		CHECKED BY [Signature]	
DESIGNED BY [Signature]		APPROVED BY [Signature]	
SCALE 1/8" = 1'-0"		SCALE 1/8" = 1'-0"	
SHEET NO. 1		SHEET NO. 1	
PROJECT TITLE		PROJECT TITLE	
MARINE CORPS BASE		MARINE CORPS BASE	
CONVERT HOSPITAL TO		CONVERT HOSPITAL TO	
DIVISION HEADQUARTERS		DIVISION HEADQUARTERS	
ATLANTIC		ATLANTIC	
NAVAL STATION		NAVAL STATION	
DATE 10/1/50		DATE 10/1/50	
SCALE 1/8" = 1'-0"		SCALE 1/8" = 1'-0"	

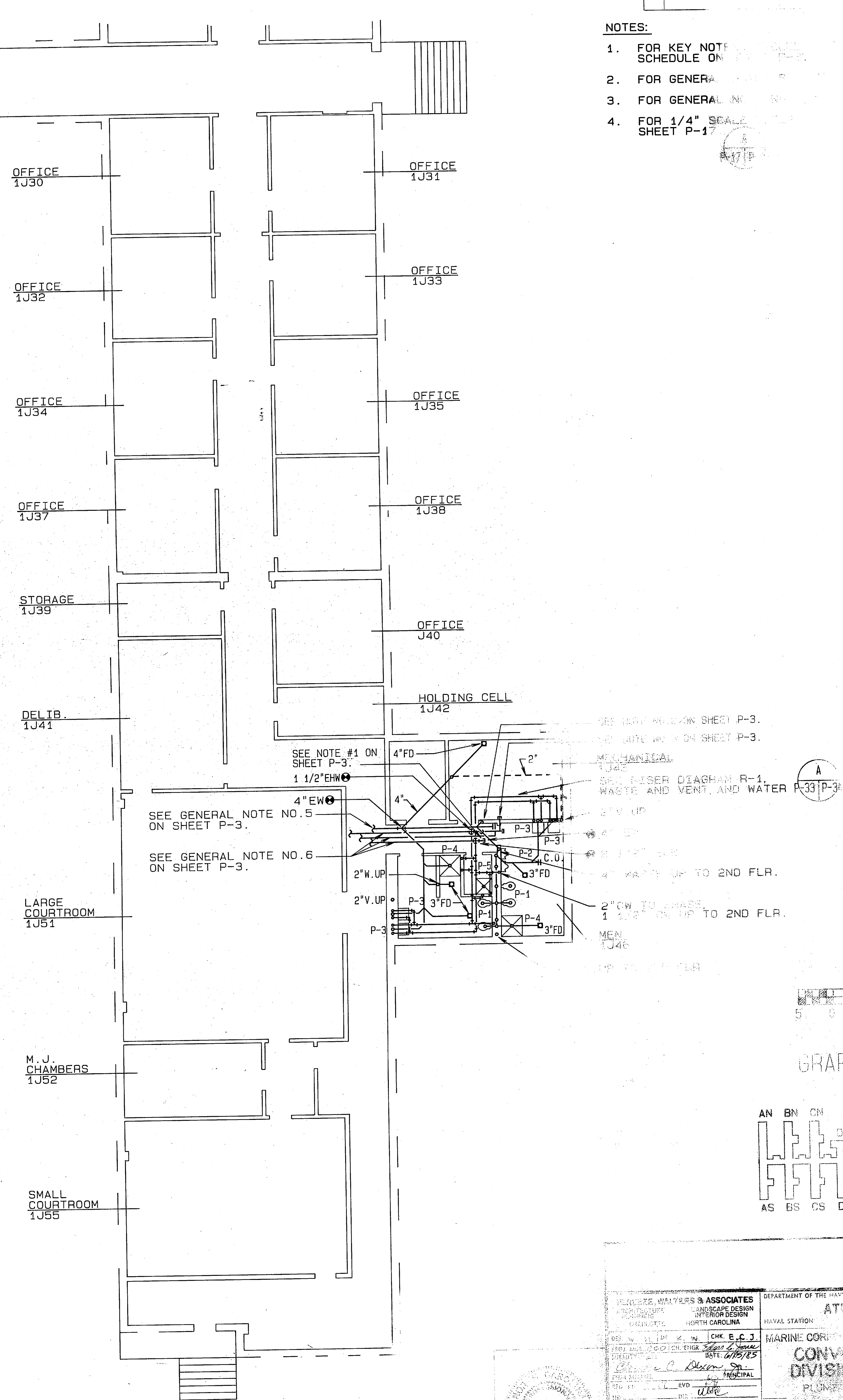


SYM
1 GEN

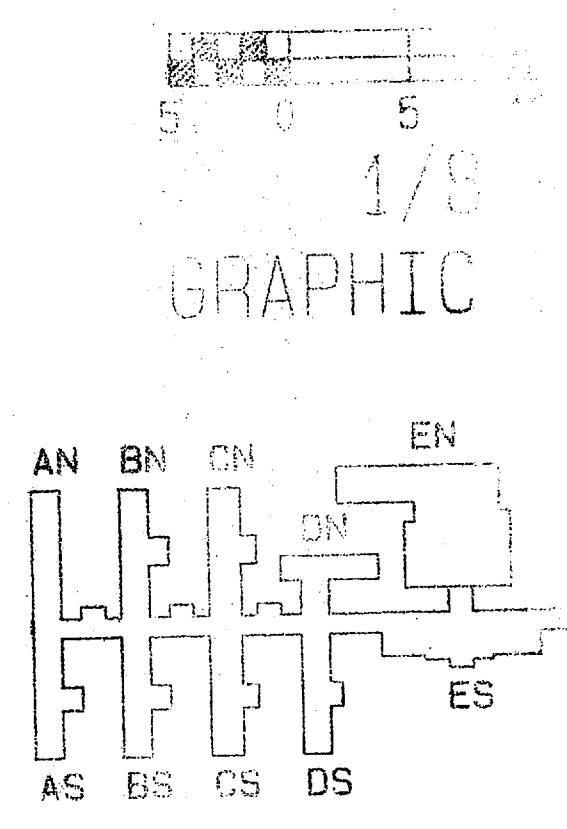
- NOTES:
1. FOR KEY NOTE SCHEDULE ON SHEET P-3.
 2. FOR GENERAL NOTE NO. 1 ON SHEET P-3.
 3. FOR GENERAL NOTE NO. 2 ON SHEET P-3.
 4. FOR 1/4" SCALE SHEET P-17.



PLUMBING PLAN-1J NORTH
1/8"=1'-0"

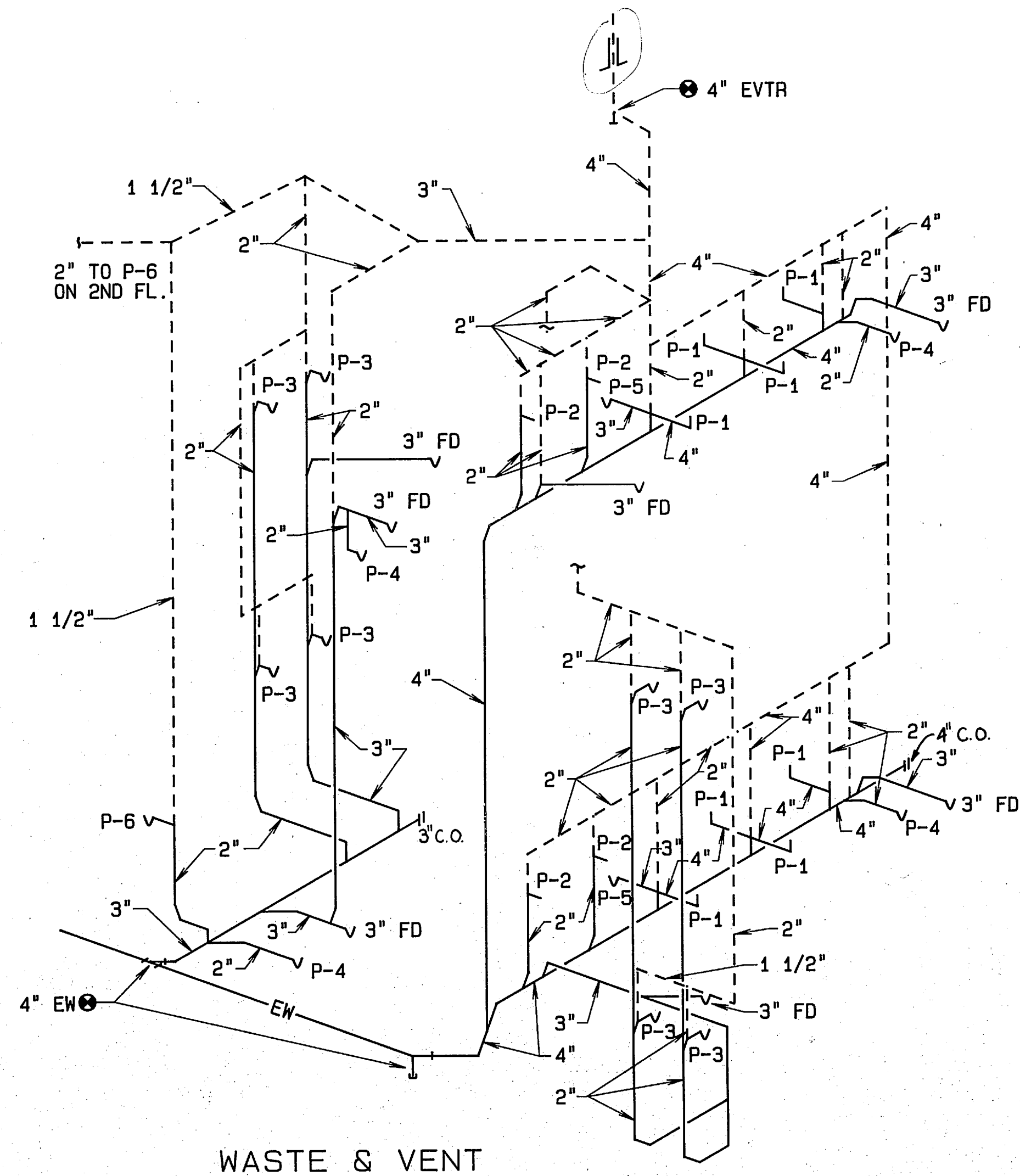


PLUMBING PLAN-1J SOUTH
1/8"=1'-0"

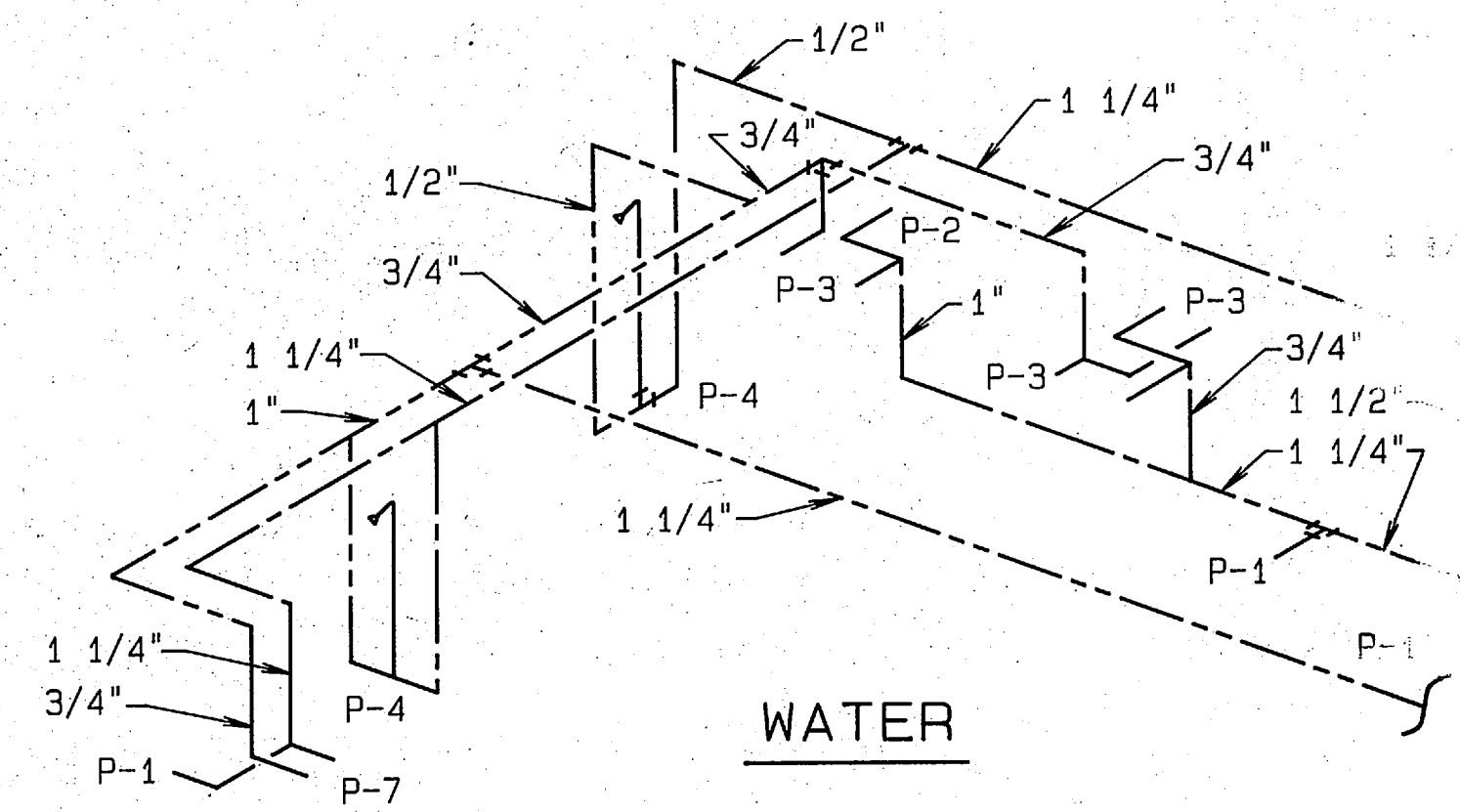


HULL, HAYES & ASSOCIATES ARCHITECTS 1000 W. BROAD ST. WASHINGTON, N.C. 27583		DEPARTMENT OF THE NAVY NAVAL STATION ATLANTA	
PROJECT NO. 1000 DRAWING NO. 1000-1000 DATE 10/19/85		MARINE CORPS CONSTRUCTION DIVISION	
DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	DATE: 10/19/85	FOR THE COMMANDER, NAVSTA	

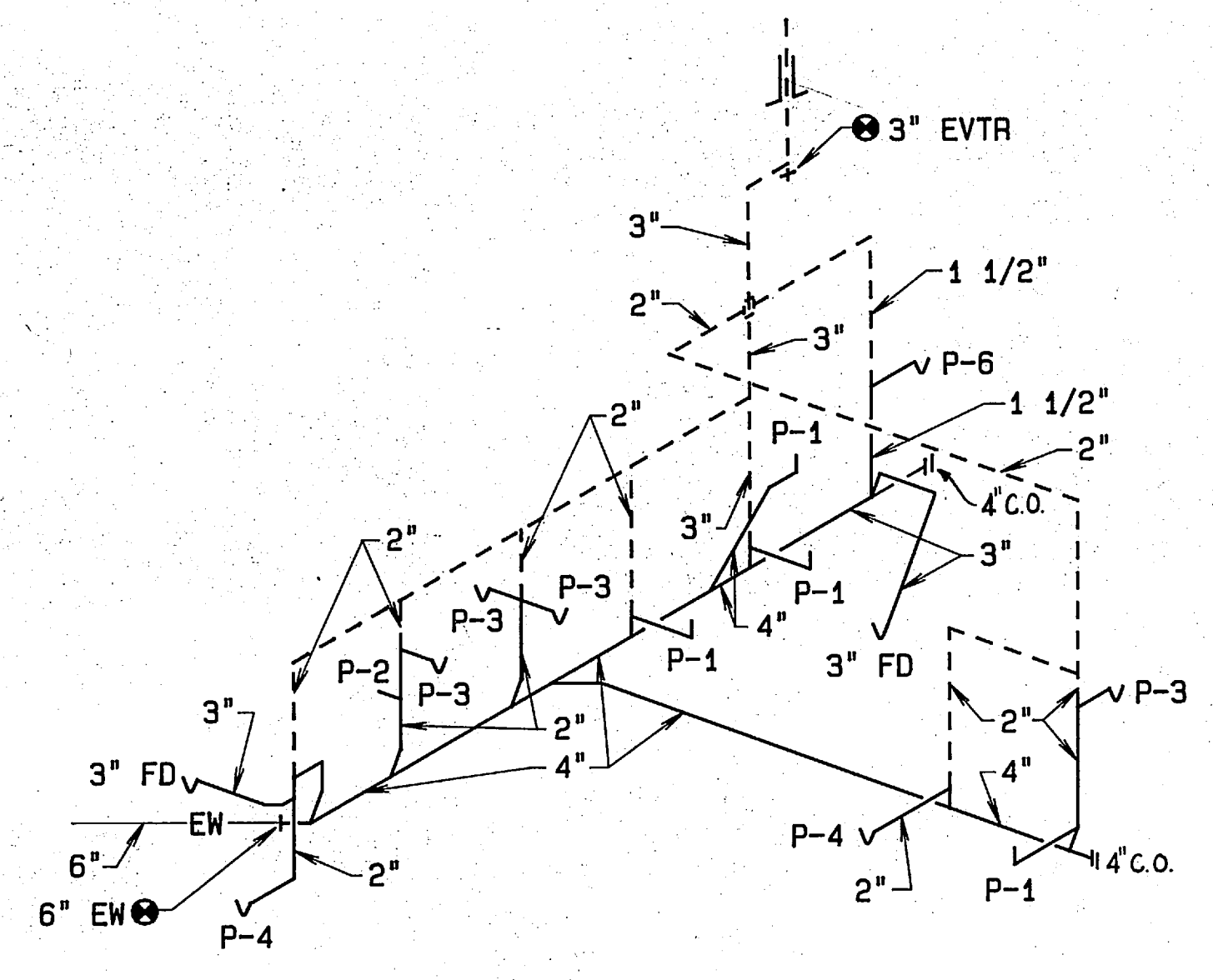
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1	GEN. PLUMBING



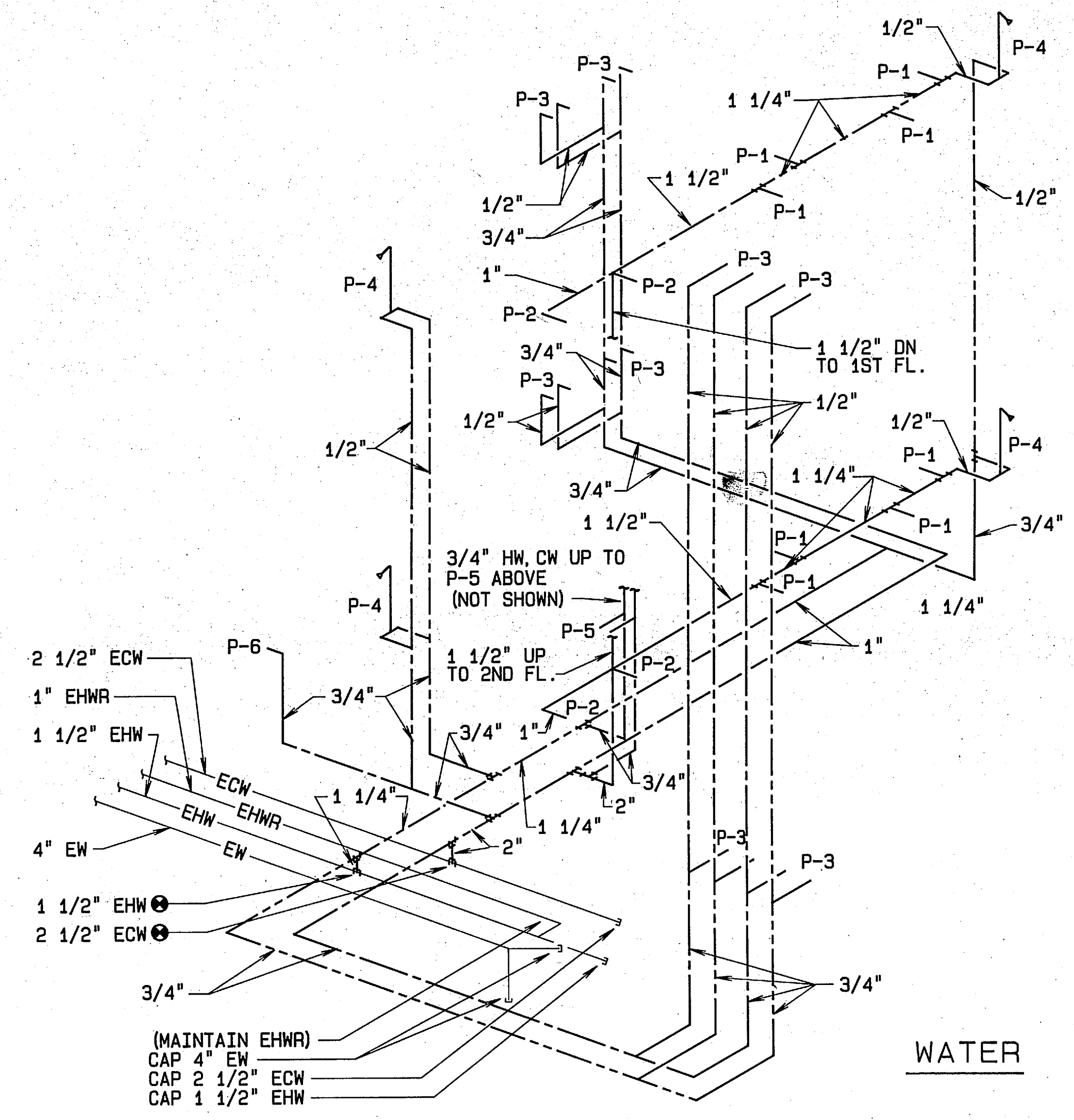
WASTE & VENT



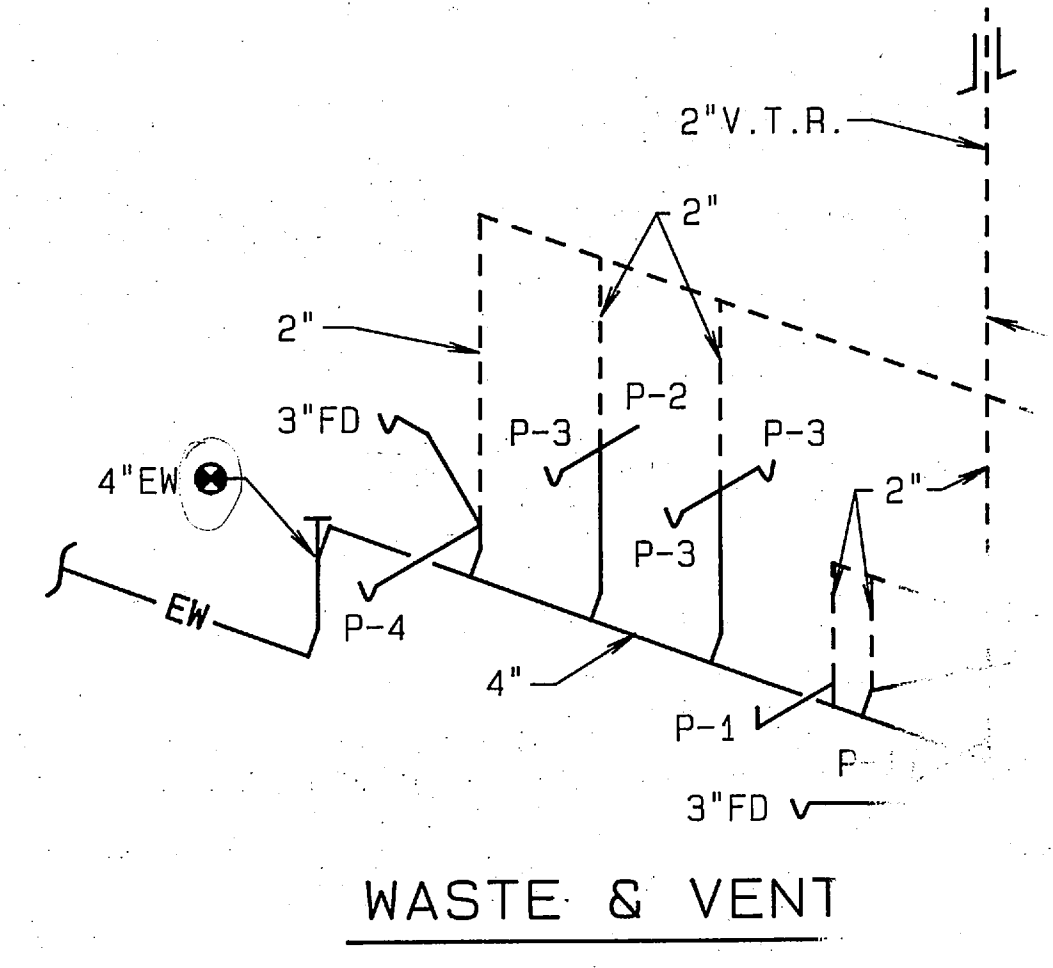
WATER



WASTE & VENT



WATER



WASTE & VENT

A RISER DIAGRAM R-4
P-14, P-35 NO SCALE
P-15

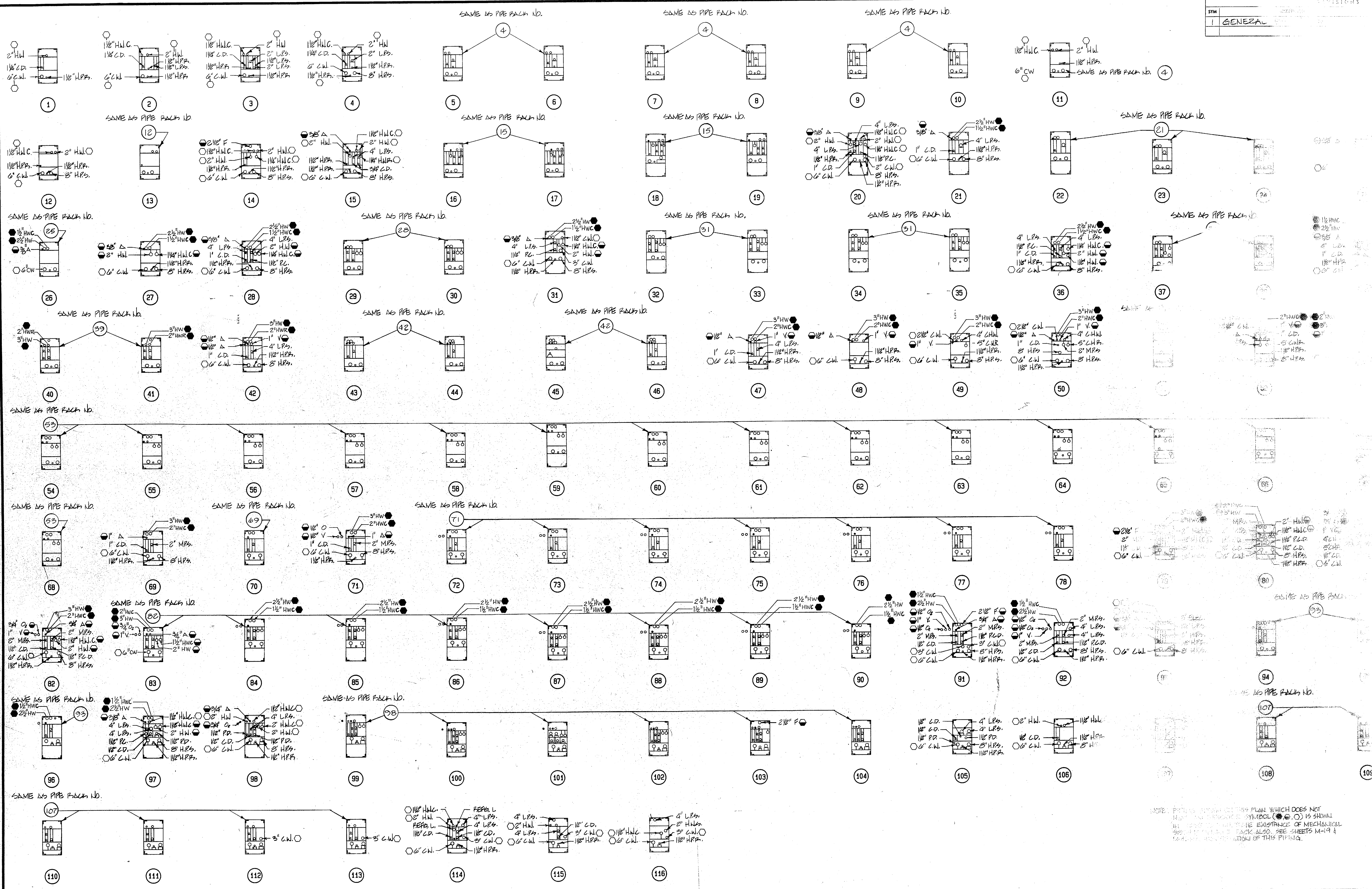
B RISER DIAGRAM R-5
P-14, P-35 NO SCALE
P-15, P-16, P-17, P-27, P-28, P-29, P-30, P-31, P-32

C RISER DIAGRAM R-6
P-16, P-35 NO SCALE

NOTE: THIS RISER DIAGRAM IS OPPOSITE HAND FOR
TOILET ROOMS ON 1F NORTH, 2F NORTH,
16 NORTH, 26 NORTH, 1H NORTH, 2H NORTH

PROJECT: CONVEYANCE DIVISION ARCHITECT: GEN. PLUMBING CONTRACTOR: GEN. PLUMBING		DEPARTMENT OF THE NAVY NAVAL STATION MARINE CORPS CONVEYANCE DIVISION
DATE: 11/25/55 DRAWN BY: GEN. PLUMBING CHECKED BY: GEN. PLUMBING APPROVED BY: GEN. PLUMBING	SCALE: NONE SIZE: F	SHEET NO. 2243 TOTAL SHEETS 2243





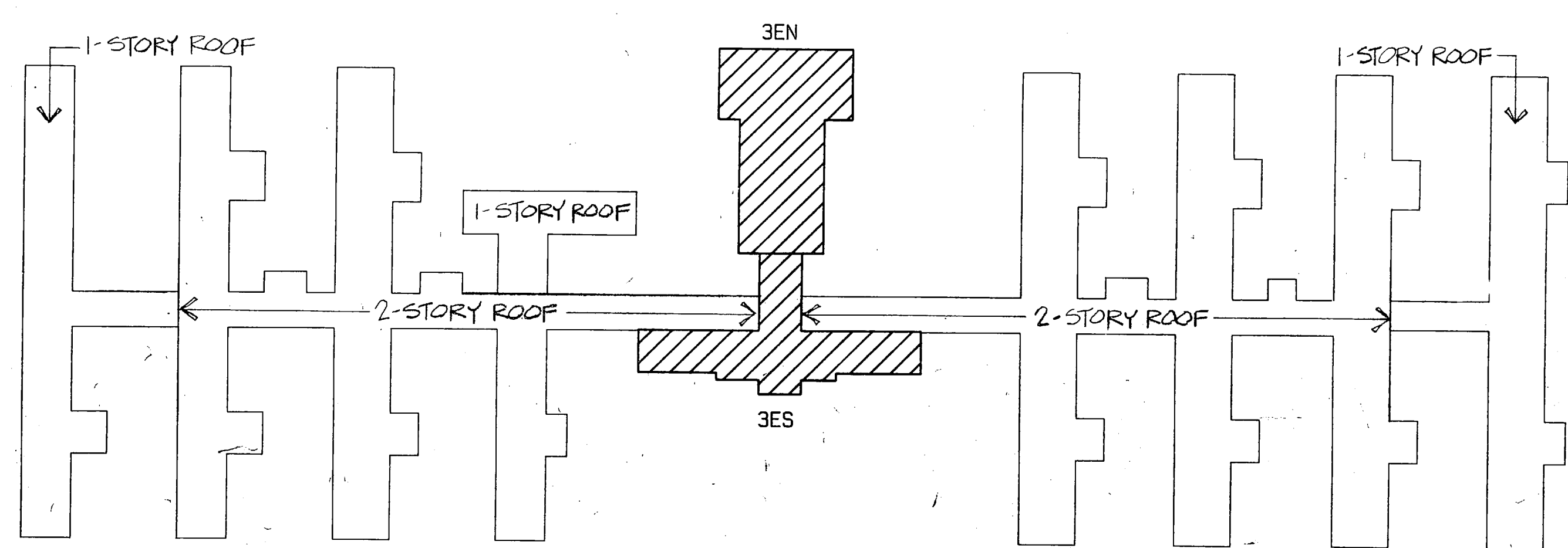
SYMBOL LEGEND			
●	NEW PIPE TO BE ADDED TO RACK.	HW	HOT WATER (DOMESTIC)
○	EXISTING PIPE TO BE REMOVED FROM RACK.	HWC	HOT WATER CIRCULATING (DOMESTIC)
○	EXISTING PIPE TO REMAIN OPERATIVE ON RACK.	HWR	HOT WATER RETURN
A	AIR	HWS	HOT WATER SUPPLY
CD	STEAM CONDENSATE DRAIN	LPS	LOW PRESSURE STEAM SUPPLY
CHWR	CHILLED WATER RETURN	O2	OXYGEN
CHWS	CHILLED WATER SUPPLY	PC	PUMPED CONDENSATE
CW	COLD WATER (DOMESTIC)	RL	REFRIGERANT LIQUID
F	FIRE	RS	REFRIGERANT SUCTION
HPR	HIGH PRESSURE RETURN	V	VACUUM
HPS	HIGH PRESSURE SUPPLY		

- NOTES:
1. ALL PIPE RACKS ARE EXISTING AND ARE TO REMAIN.
 2. SEE SHEET P-10 FOR LOCATION OF RACKS IN THE TUNNEL.
 3. PIPE WORK SHALL BE COORDINATED WITH PROJECT PHASES.
 4. COORDINATE WORK WITH SHEETS P-3, P-10, M-2, M-50, M-51.
 5. REFER TO ASBESTOS REMOVAL NOTES ON SHEET P-3.
 6. RACKS EXTEND FROM FLOOR TO UNDERSIDE OF 1ST FLOOR SLAB. SHORT RACKS ARE APPROX. 7'-1" HIGH X 4'-0" WIDE. TALL RACKS ARE APPROX. 8'-0" HIGH X 4'-0" WIDE. RACKS ARE VIEWED AS STANDING ON THE WEST SIDE LOOKING IN THE EAST DIRECTION. RACKS ARE ADJACENT TO THE SOUTH WALL OF THE TUNNEL.
 7. THE TOPS OF ALL RACKS ARE TOUCHING THE UNDERSIDE OF THE 1ST FLOOR SLAB, WHICH IS LEVEL. STEPDOWNS OCCUR IN THE TUNNEL WHERE THE RACKS ARE TALL.

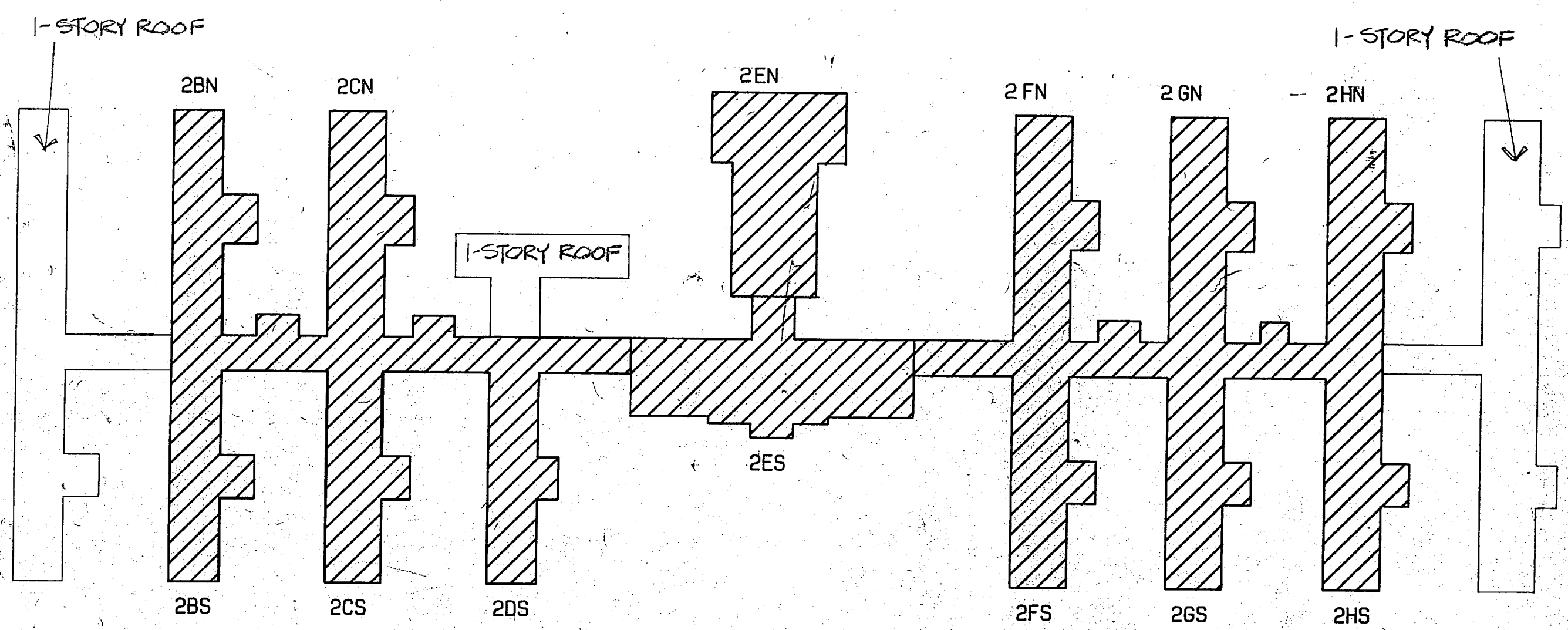
DEPARTMENT OF THE NAVY
ATLANTIC
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA
CONVERT HOSPITAL
DIVISION HEAD

APPROVED: [Signature] DATE: [Date]
SCALE: NC

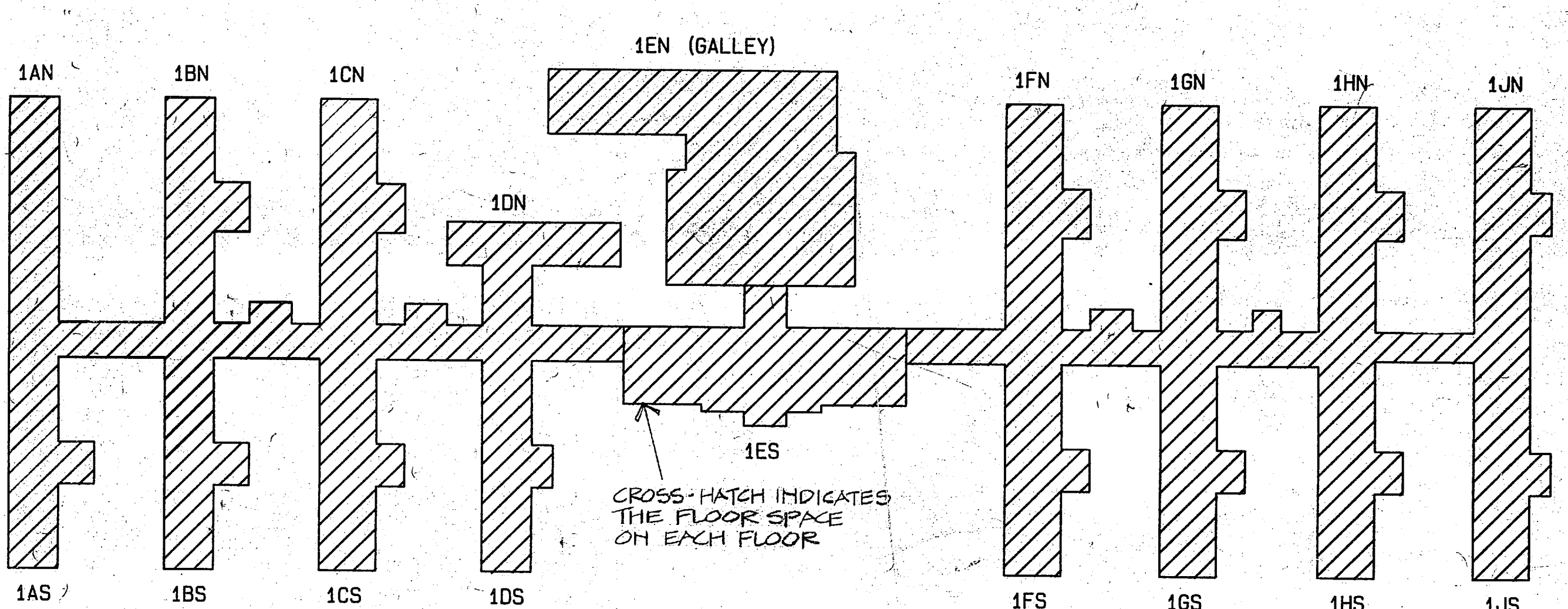




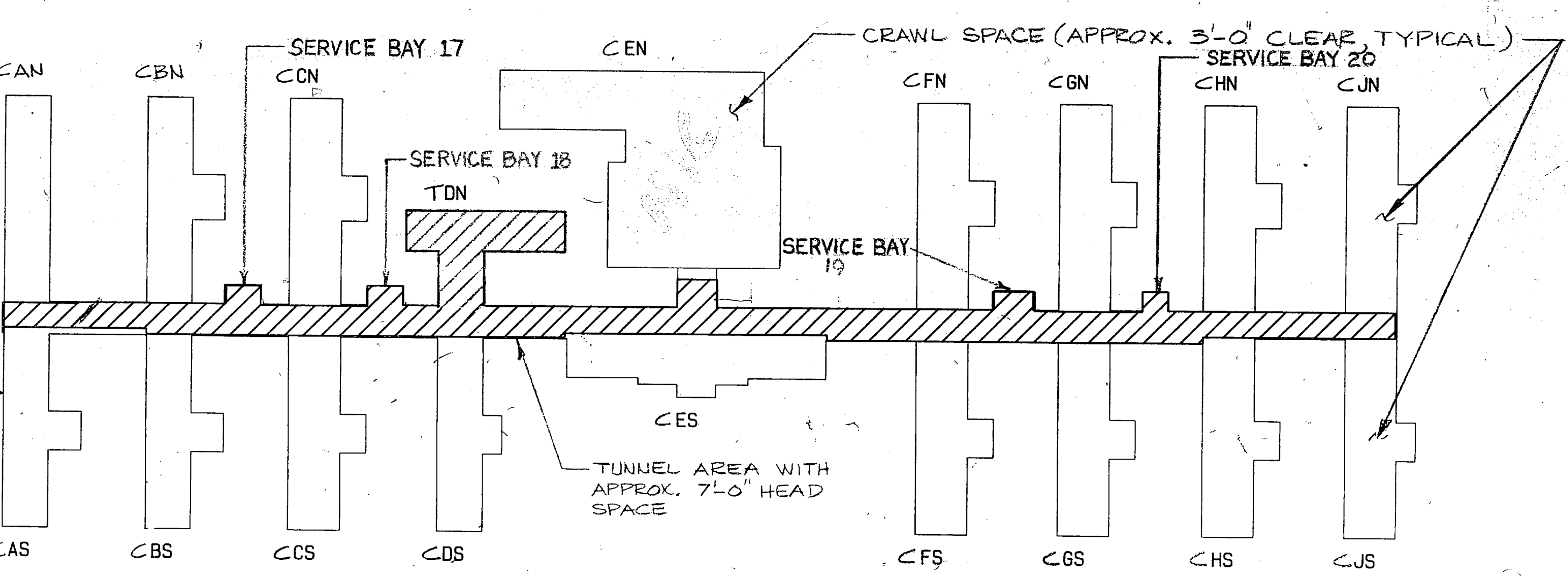
THIRD FLOOR PLAN
NOT TO SCALE



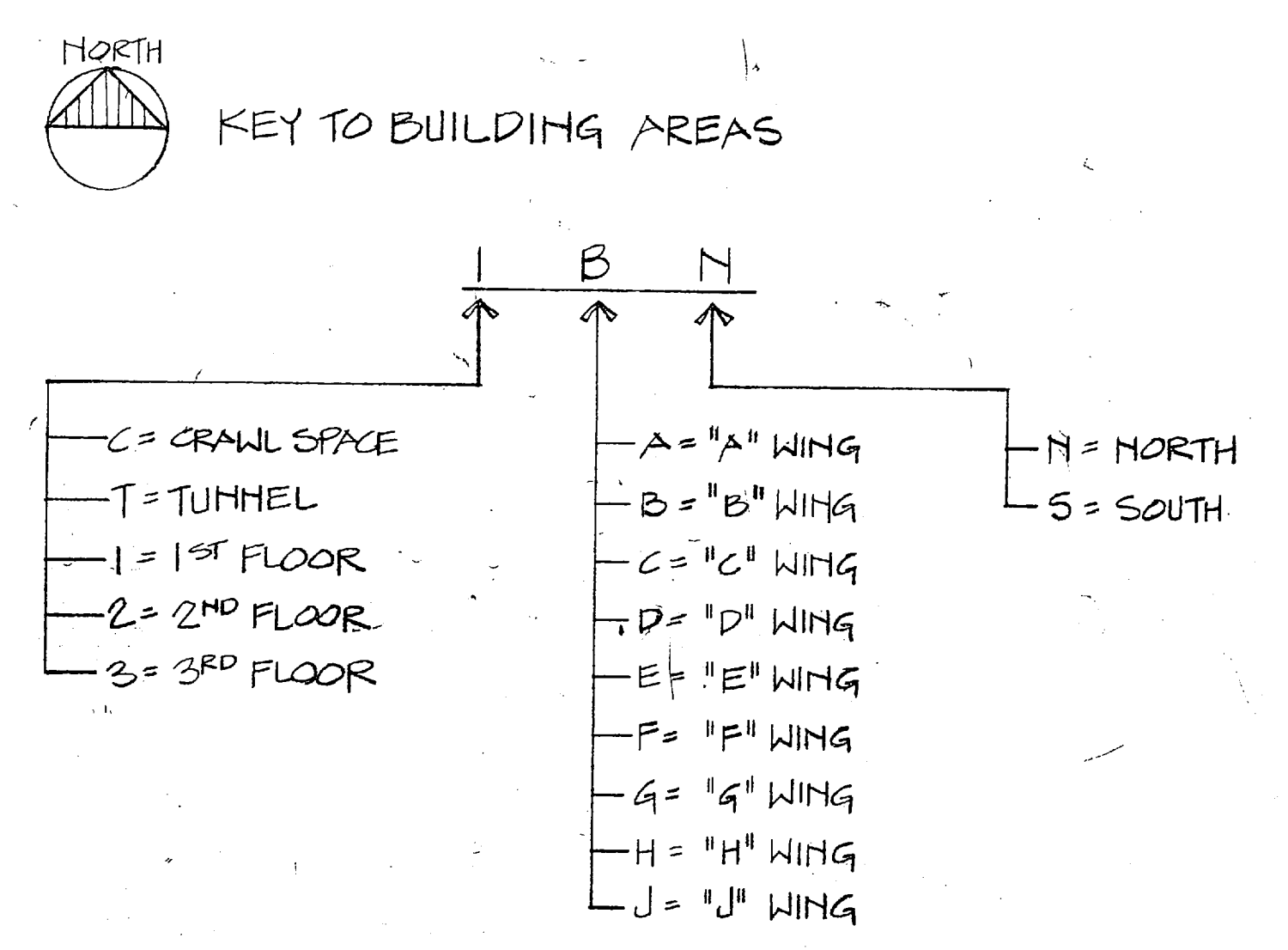
SECOND FLOOR PLAN
NOT TO SCALE



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 - HFR, HPS, HWR, HWS, LPS, MPR, MRS
 - BASE COST ON FOLLOWING QUANTITIES:
 - CRAWL SPACE
 - PIPE LESS THAN 4 IN. DIA., INSULATION 2 IN. THICK, QTY. = 3720 L.F.
 - ABOVE FLOOR
 - PIPE LESS THAN 4 IN. DIA., INSULATION 2 IN. THICK, QTY. = 11763 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:

1AH	1EN (G)	1FH
1AS	1EN (M)	2FH
1BN	1ES	1FS
2BN	2EN (GM)	1GN
1BS	2ES	1GS
2BS	3EN	2GS
1CN	3EN (GM)	2GS
1CS	3ES	1HH
2CS		2HH
1DH		1HS
1DS		2HS
2DS		1JH
		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 02080 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.
CVB-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) = MESS HALL
1EN (G)	1-1ST FLOOR, E="E" WING, N=NORTH, (G) = GALLEY

SYMBOLS:

⊙	AIR DISTRIBUTION DEVICE "A", 9x9 INLET, 235 CFM
△	HOT WATER RADIATOR, ACTIVE LENGTH
□	TERMINAL UNIT NO. 5, NUMBERED PER
⊠	SUPPLY DUCTWORK OR GRILLE
⊞	RETURN DUCTWORK OR GRILLE
⊞	EXHAUST DUCTWORK OR GRILLE
⊞	ROUND DUCT VVFB - VARIABLE VOLUME
⊞	OVAL DUCT VI - VIBRATION ISOLATION
⊞	THERMOSTAT FC - FLEXIBLE CONNECTION
⊞	FLEXIBLE DUCT QBD - OPPOSED BLADE
→	DUCT RISE IN DIR. OF ARROW
↘	DUCT DROP IN DIR. OF ARROW
⊞	HOT WATER COIL
⊞	BUILDING WING SHOWN
⊞	1/2" DIA. TEST PORT
⊞	AHU DUCT FIRE STAT
⊞	AHU DUCT SMOKE DETECTOR
A.D.	AIR DUCT ACCESS DOOR
⊞	CONTROL THERMOSTAT

HVAC DEMOLITION LEGEND - ME

SR	STEAM RADIATOR
SRE	STEAM RADIATOR ENCL.
VCP	VITREOUS CLAY PIPE
C	CONDENSER PIPE
CR	CONDENSER WATER RET.
OW	COLD WATER
TR	TO REMAIN
AHU	AIR HANDLING UNIT
RA	RETURN AIR GRILLE
FG	FLOOR GRILLE

DEMOLITION NOTES - MECHANICAL

- ALL ITEMS SHOWN ON THE DEMOLITION PLANS SHALL BE REMOVED AND DISPOSED OF UNLESS NOTED BY 1-
- PIPING AND DUCTWORK CONCEALED DO NOT INTERFERE WITH THE INT. WORK SHALL BE SEALED OFF AS F. IN THE ARCHITECTURAL PLANS.
- REMOVE ALL STEAM RADIATORS AND TRAPS, VALVES AND ETC. SEE PIPING ON THE MECHANICAL REFERENCE.
- ALL SURFACES AND STRUCTURE DURING THE DEMOLITION WORK AS SHOWN IN THE ARCHITECTURE.
- ALL EQUIPMENT SUPPORT EQUIPMENT LOCATED ON BUILDING SHALL BE REMOVED.
- ALL EXISTING THRU-TYPE AIR CONDITIONING MOVED BY THE GOVERNMENT VARIOUS PHASES OF PROPERTY OF

PIPING LEGEND - MECHANICAL

ABBREVIATIONS:

CD	CONDENSATE
CHWR	CHILLED WATER SUPPLY
CHWS	CHILLED WATER SUPPLY
FC	FLEXIBLE CONNECTION
CR	CONDENSER WATER RET.
C	CONDENSER PIPE
OW	COLD WATER
D	DUCT
DTR	DUAL TEMPERATURE
DTS	DUAL TEMPERATURE
FMD	FAN MOTOR DRIVE
H	HEATER
HDA	HIGH PRESSURE DRAIN
HPR	HIGH PRESSURE RETURN
HPS	HIGH PRESSURE SUPPLY
HWT	HOT WATER RETURN
LD	LOAD
LDR	LOAD RETURN
LPS	LOAD SUPPLY
LPR	LOAD RETURN
M	MESS HALL
N	NORTH
S	SOUTH
T	TO REMAIN
V	VIBRATION ISOLATION
VVFB	VARIABLE VOLUME FLEXIBLE
VI	VIBRATION ISOLATION
W	WATER
X	CROSS-HATCH

DEPARTMENT OF MARINE CORPS

ENGINEERING OFFICE

DATE: 12/20/65

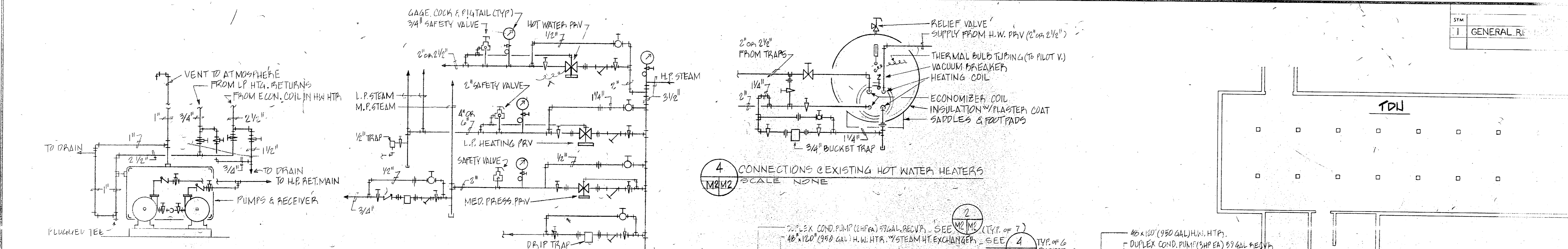
DRAWING NO: 14265

PROJECT NO: 6162470-82-B-2243

SHEET 114 OF 142



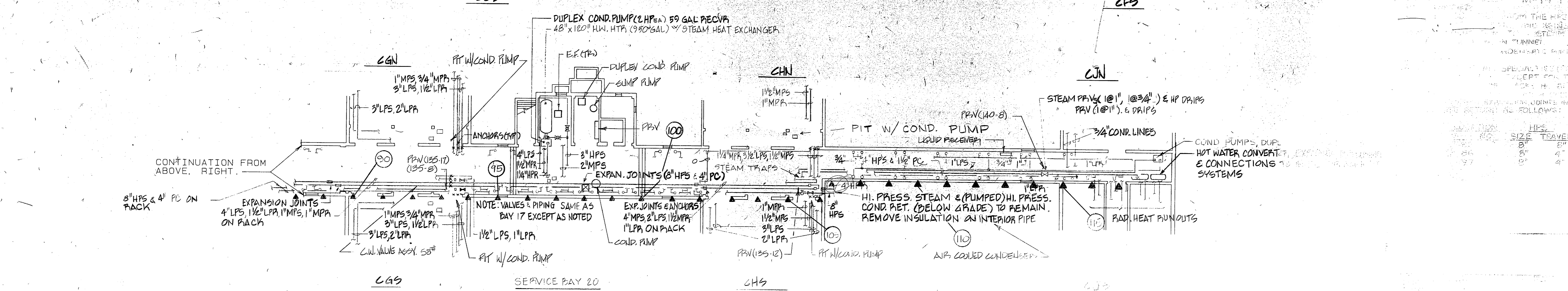
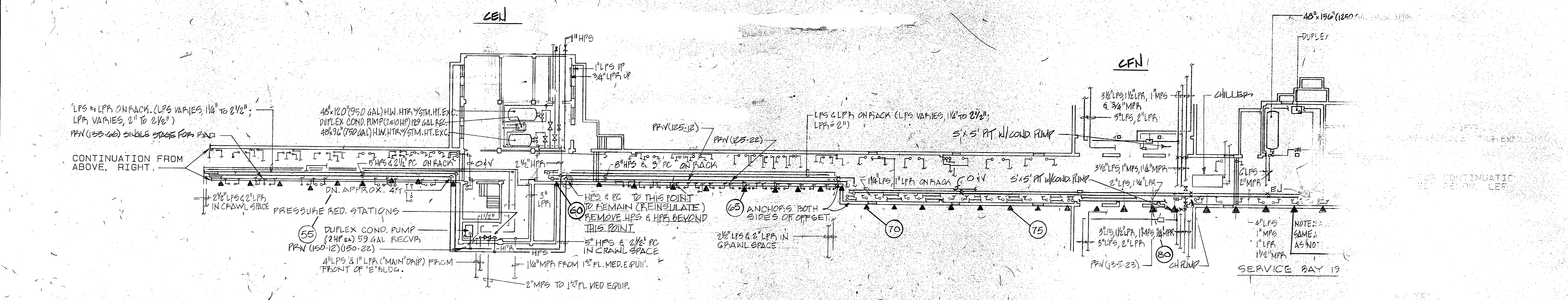
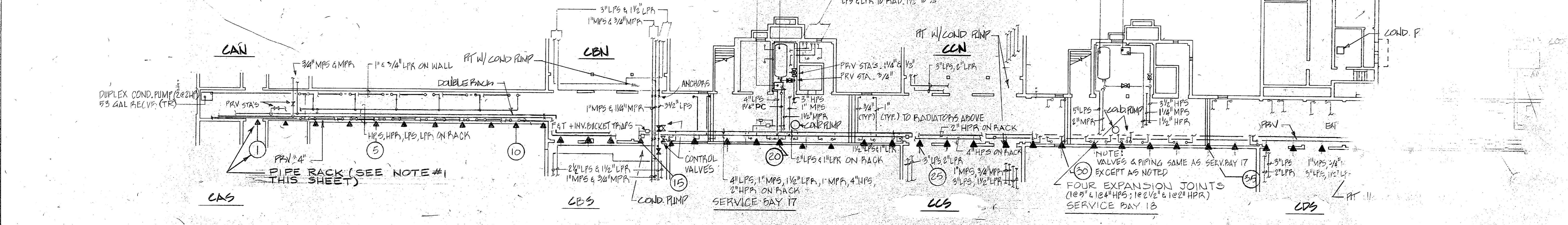
SYM	GENERAL REF
1	GENERAL REF



2 TYPICAL CONDENSATE PUMP CONNECTIONS (EXISTING)
SCALE: NONE

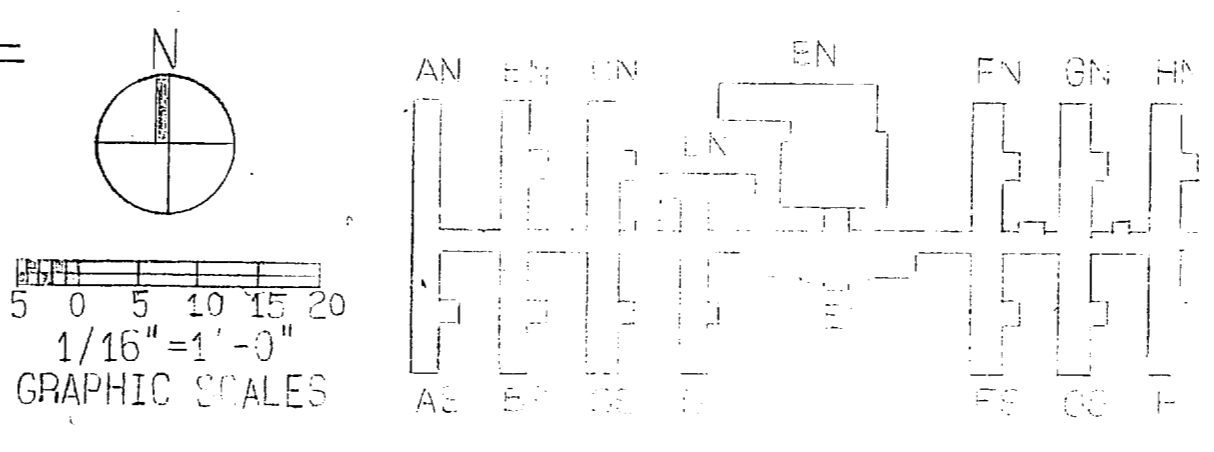
3 STEAM PRESSURE REDUCING STATION (EXISTING)
SCALE: NONE

4 CONNECTIONS EXISTING HOT WATER HEATERS
SCALE: NONE



DEMOLITION PLAN-TUNNEL

1/16" = 1'-0"



CONTINUATION FROM ABOVE, RIGHT.

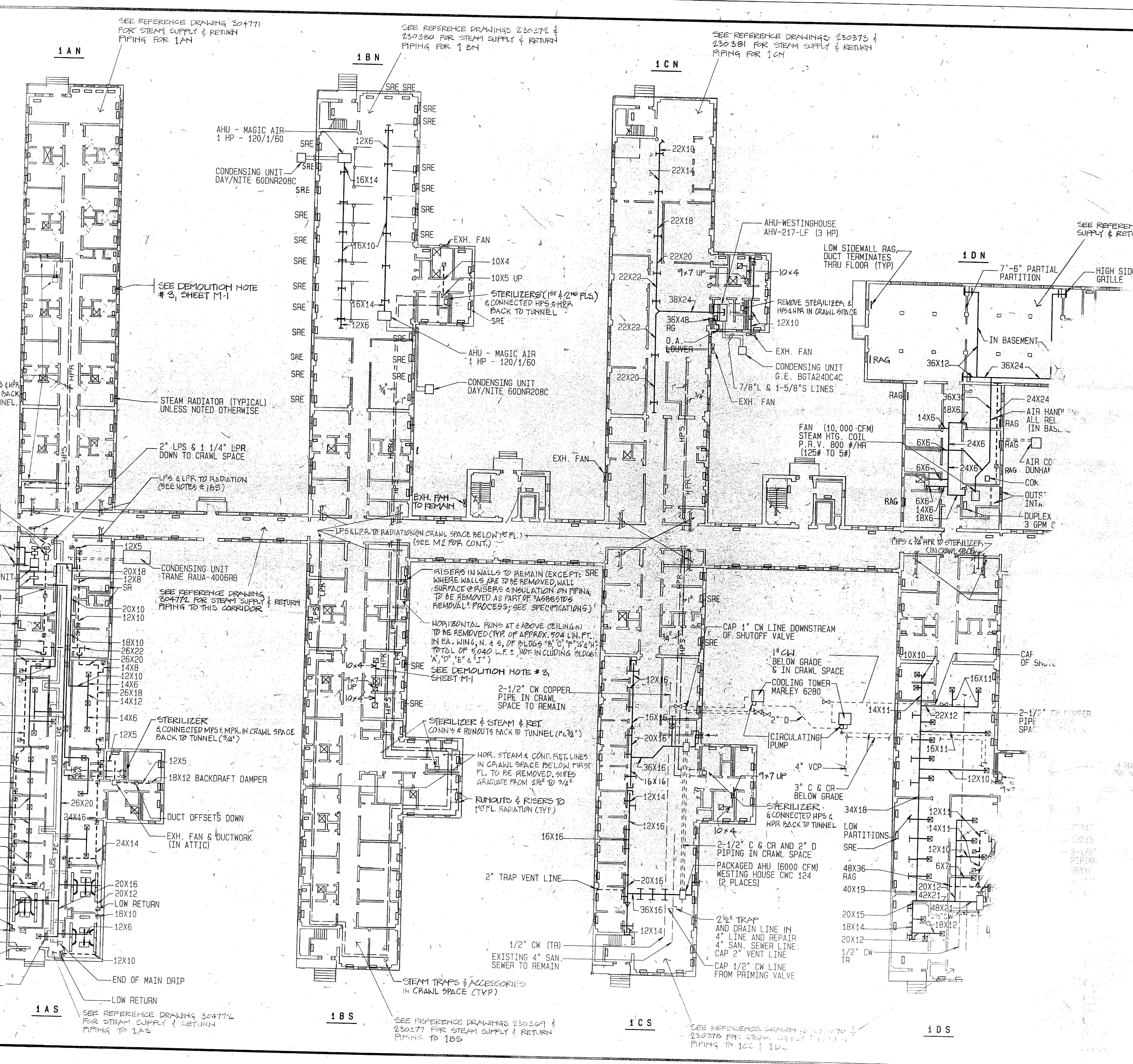
CONTINUATION FROM ABOVE, RIGHT.

CONTINUATION FROM ABOVE, RIGHT.

DEMOLITION PLAN-TUNNEL

1/16" = 1'-0"

GRAPHIC SCALES



SEE REFERENCE DRAWING 304771 FOR STEAM SUPPLY & RETURN PIPING FOR 1A N

SEE REFERENCE DRAWINGS 230272 & 230380 FOR STEAM SUPPLY & RETURN PIPING FOR 1B N

SEE REFERENCE DRAWINGS 230370 & 230381 FOR STEAM SUPPLY & RETURN PIPING FOR 1C N

SYM
I GENE

AHU - MAGIC AIR
1 HP - 120/1/60

CONDENSING UNIT
DAY/NITE 60DN208C

SEE DEMOLITION NOTE
3, SHEET M-1

STEAM RADIATOR (TYPICAL)
UNLESS NOTED OTHERWISE

2" LPS & 1 1/4" LPR
DOWN TO CRAWL SPACE

LPS & LPR TO RADIATION
(SEE NOTES @ 10.8)

CONDENSING UNIT
TRANE RADU-4006RB

SEE REFERENCE DRAWING
304772 FOR STEAM SUPPLY & RETURN
PIPING TO THIS CORRIDOR

STERILIZER & CONNECTED HPS & HRA
IN CRAWL SPACE BACK TO TUNNEL (3/4")

18X12 BACKDRAFT DAMPER

DUCT OFFSETS DOWN

EXH. FAN & DUCTWORK
(IN ATTIC)

LOW RETURN

LOW RETURN

LOW RETURN

EXH. FAN

SR PIPING
EXPOSED A.F.F.

STEAM REHEAT COIL
(TYP. 9 PLACES)

LOW RETURN

1 A S
SEE REFERENCE DRAWING 304772 FOR STEAM SUPPLY & RETURN PIPING TO 1A S

RISERS IN WALLS TO REMAIN (EXCEPT: SRE WHERE WALLS ARE TO BE REMOVED, WALL SURFACE & RISERS & INSULATION ON PIPING TO BE REMOVED AS PART OF "ASBESTOS REMOVAL" PROCESS; SEE SPECIFICATIONS)

HORIZONTAL RUNS AT & ABOVE CEILING (IN EA. WING, N. & S. OF BLDGS "B", "C", "D", "E", "F", "G", "H", "I", "J", "K", "L", "M", "N", "O", "P", "Q", "R", "S", "T", "U", "V", "W", "X", "Y", "Z", TOTAL OF 5040 L.F. ±, NOT INCLUDING BLDGS "A", "D", "E", & "J")

SEE DEMOLITION NOTE # 3, SHEET M-1

2-1/2" CW COPPER PIPE IN CRAWL SPACE TO REMAIN

STERILIZER & STEAM & RET. CONNS & RUNOUTS BACK TO TUNNEL (1/2")

HOR. STEAM & COND. RET. LINES IN CRAWL SPACE BELOW FIRST FL. TO BE REMOVED, SIZES GRADUATE FROM 2 1/2" TO 3/4"

RUNOUTS & RISERS TO 1ST FL. RADIATION (TYP.)

2" TRAP VENT LINE

1/2" CW (TR)

EXISTING 4" SAN. SEWER TO REMAIN

STEAM TRAPS & ACCESSORIES IN CRAWL SPACE (TYP.)

1 B S
SEE REFERENCE DRAWINGS 230369 & 230377 FOR STEAM SUPPLY & RETURN PIPING TO 1B S

1 C S
SEE REFERENCE DRAWINGS 230370 & 230381 FOR STEAM SUPPLY & RETURN PIPING TO 1C S

1 D S

SEE REFERENCE DRAWING 304772 FOR STEAM SUPPLY & RETURN PIPING

7'-6" PARTIAL PARTITION

HIGH SIDEWALL GRILLE

IN BASEMENT

24X24 AIR HANDLING UNIT ALL REL. IN BASEMENT

24X24 AIR COND. DUNHAM

COM. OUTST. INTA. DUPLEX 3 GPM

24X24

24X24

24X24

24X24

24X24

24X24

24X24

24X24

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24X24

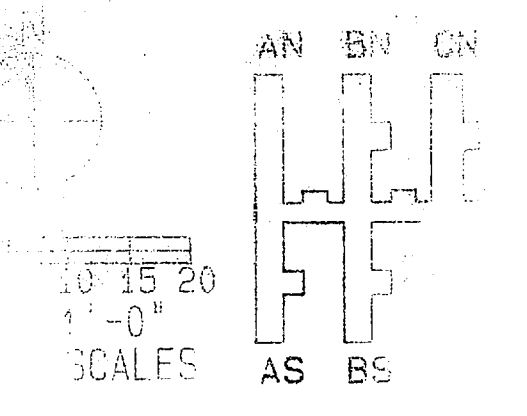
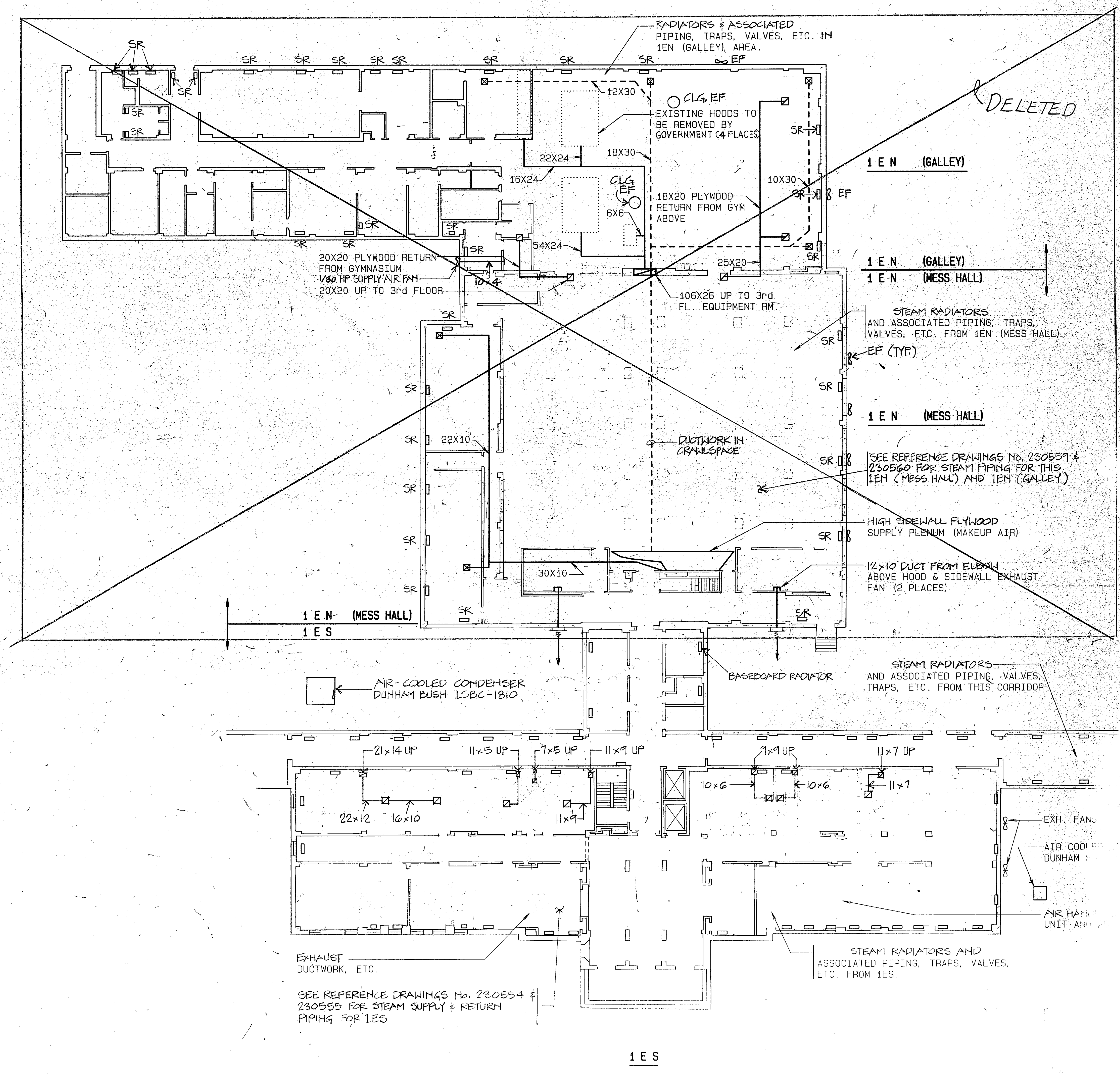
24X24

24X24

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24X24



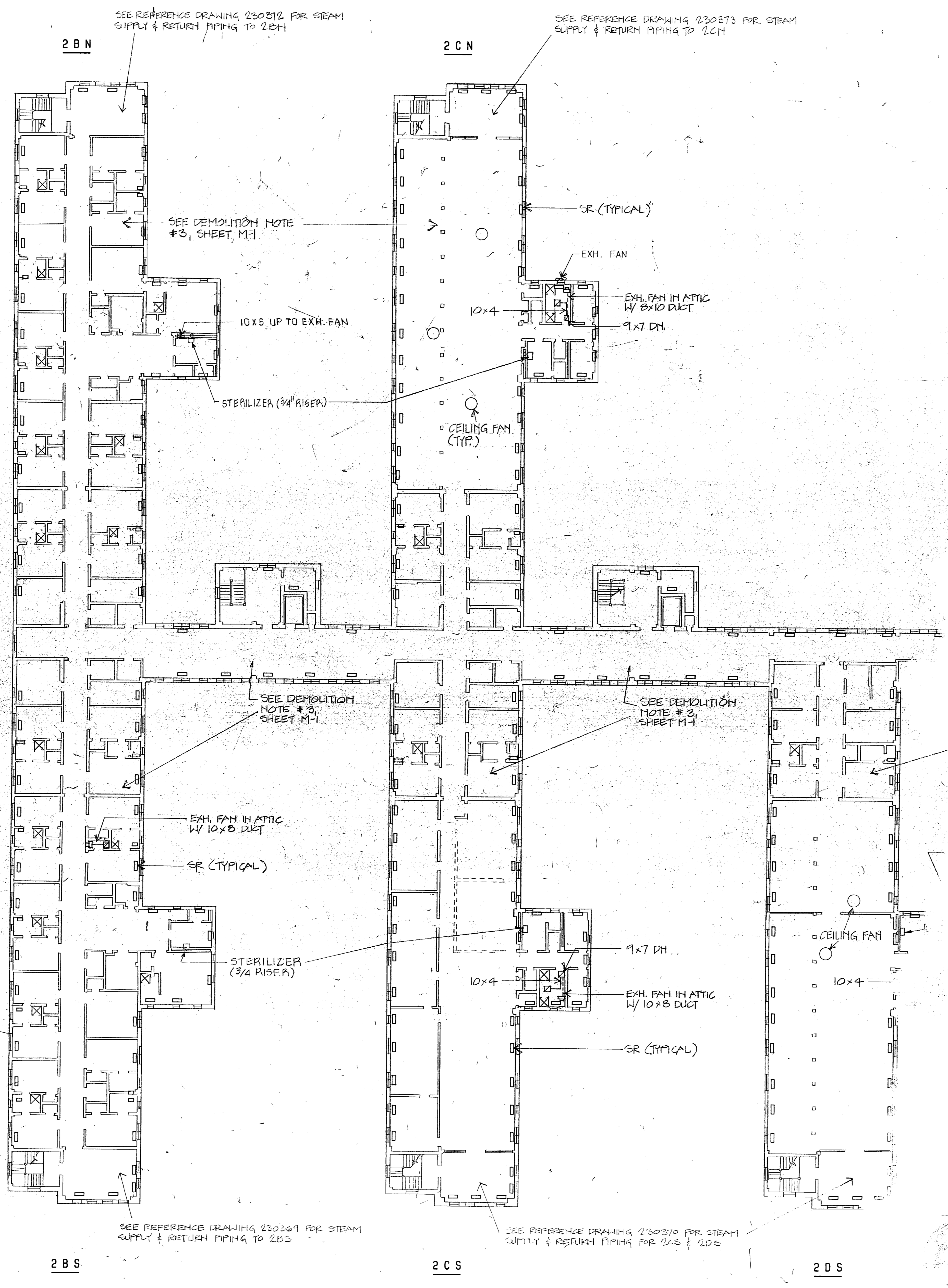


PROJECT NO. 100-100-100
 DRAWING NO. 100-100-100
 DATE 10/15/20
 SCALE AS BS
 MARINE CO.

1551



SYM	
1	GENE



NAVY ARCHITECTURE

NAVY STATE

MARINE CORPS

CONSTRUCTION

DIVISION

DATE

BY

CHECKED

APPROVED

PROJECT

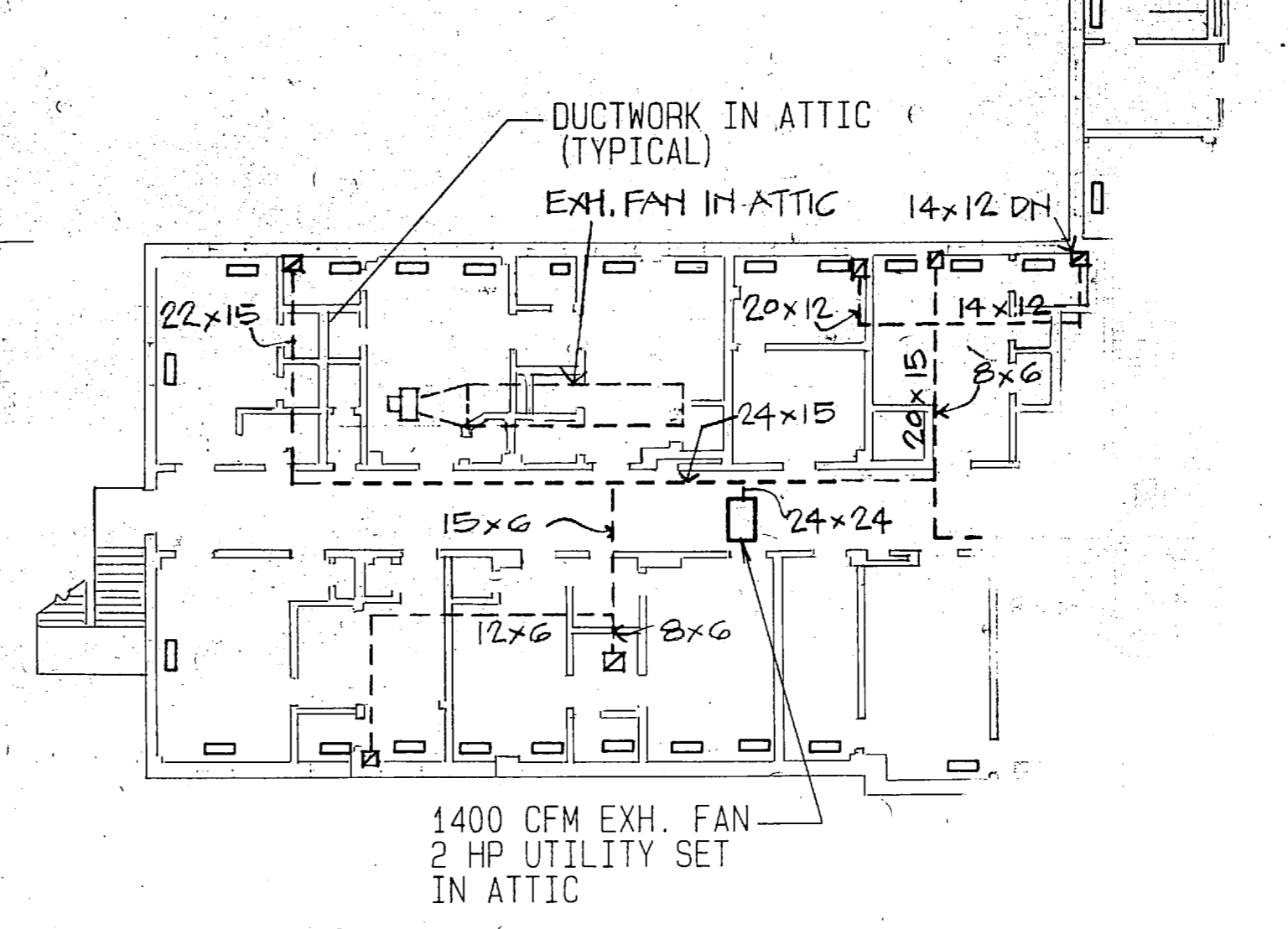
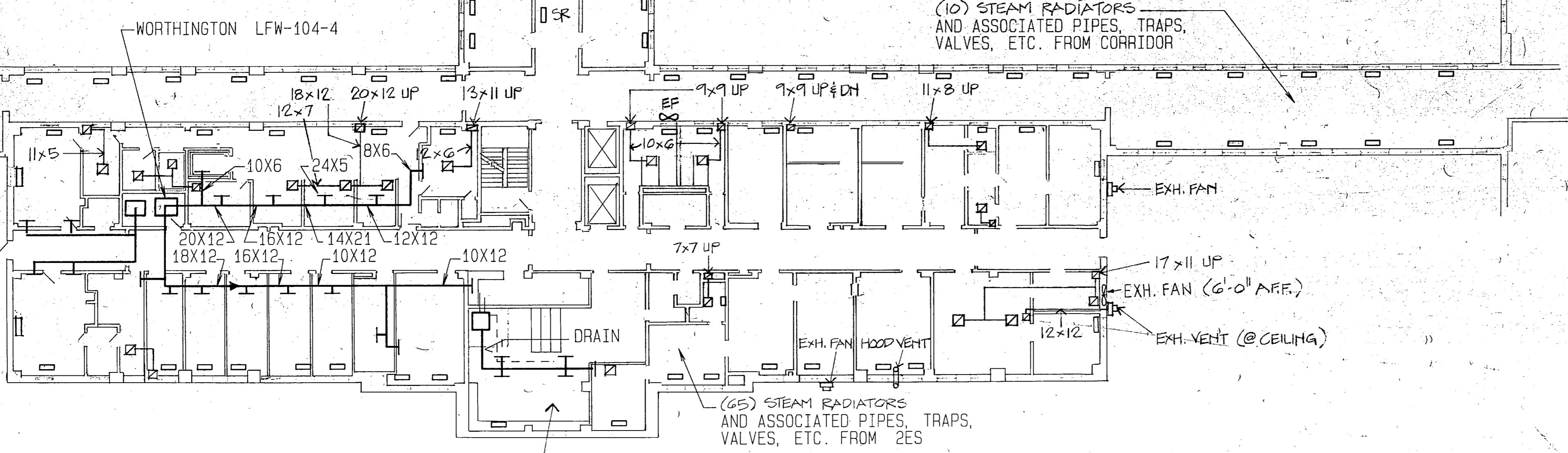
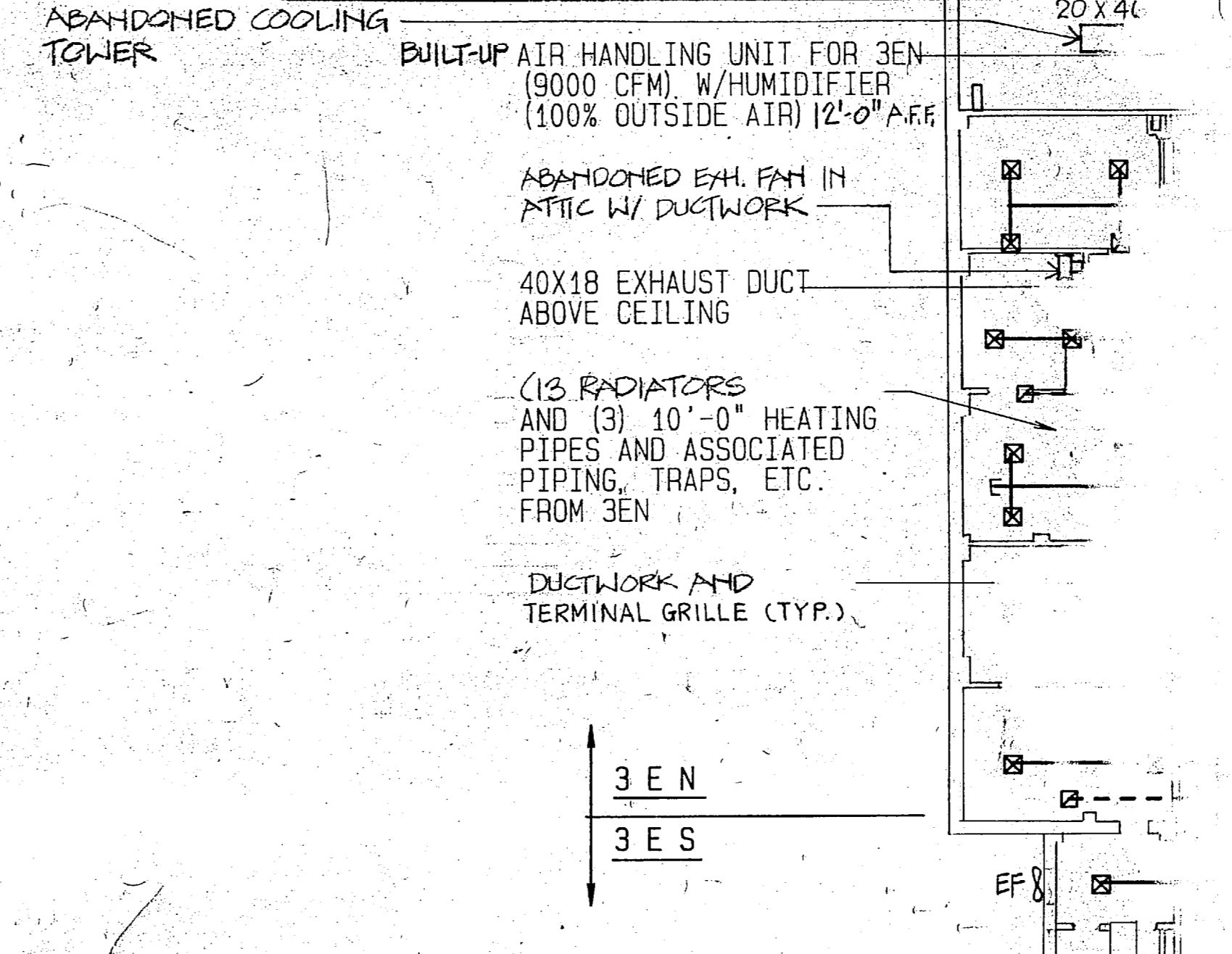
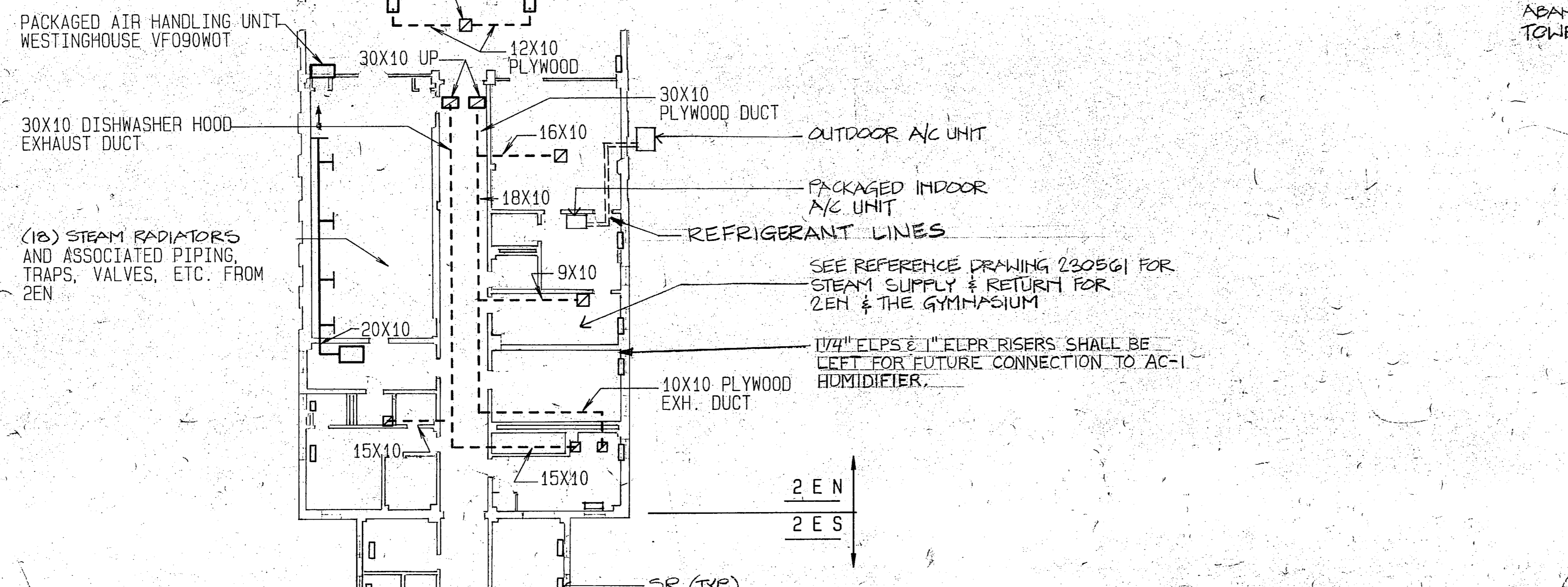
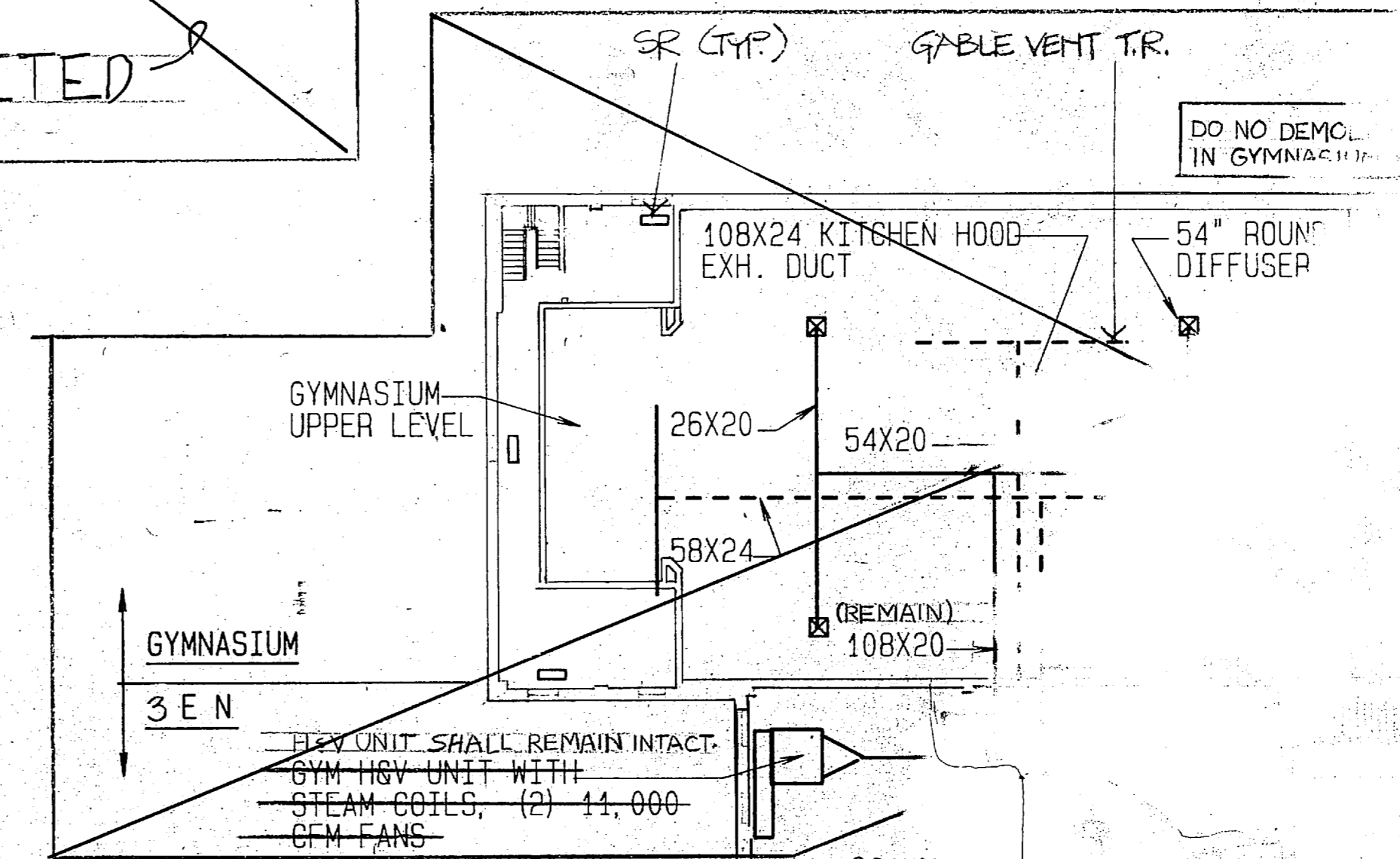
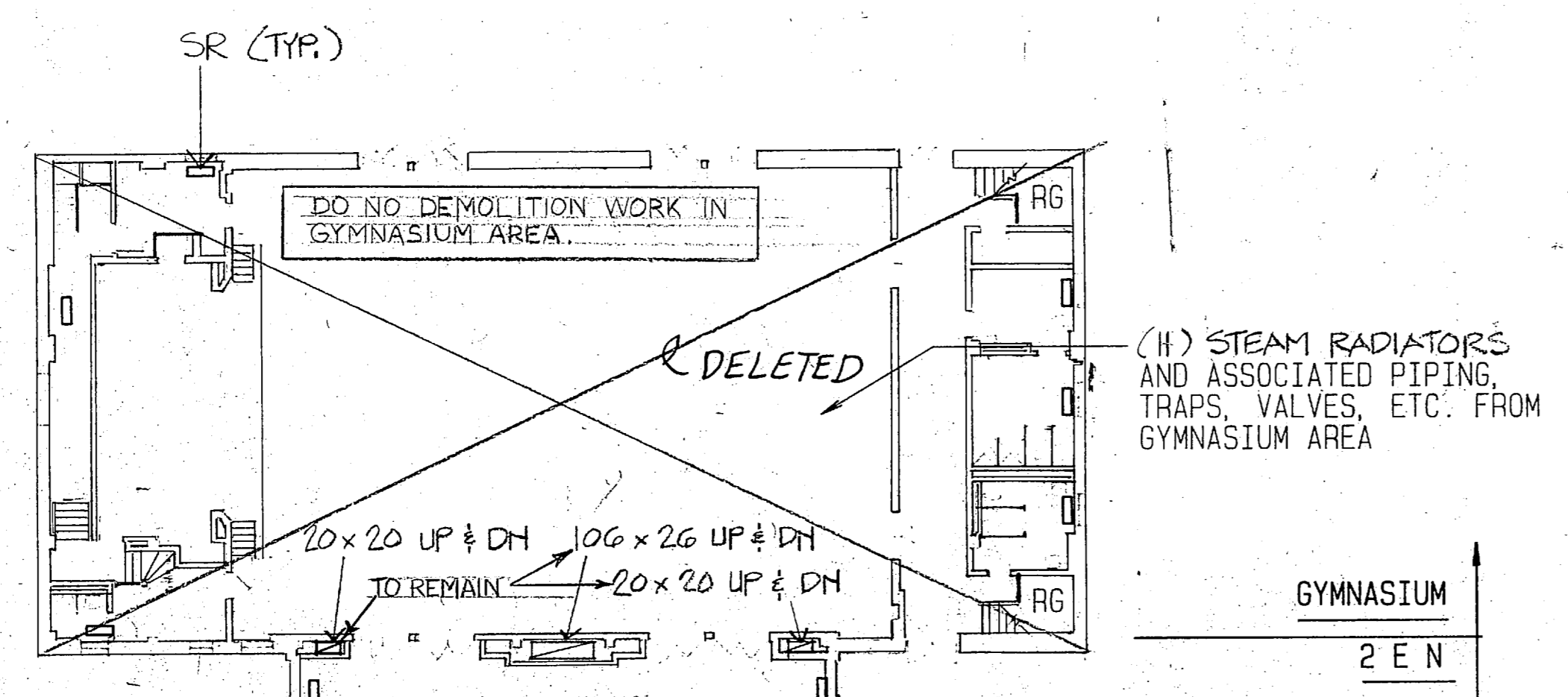
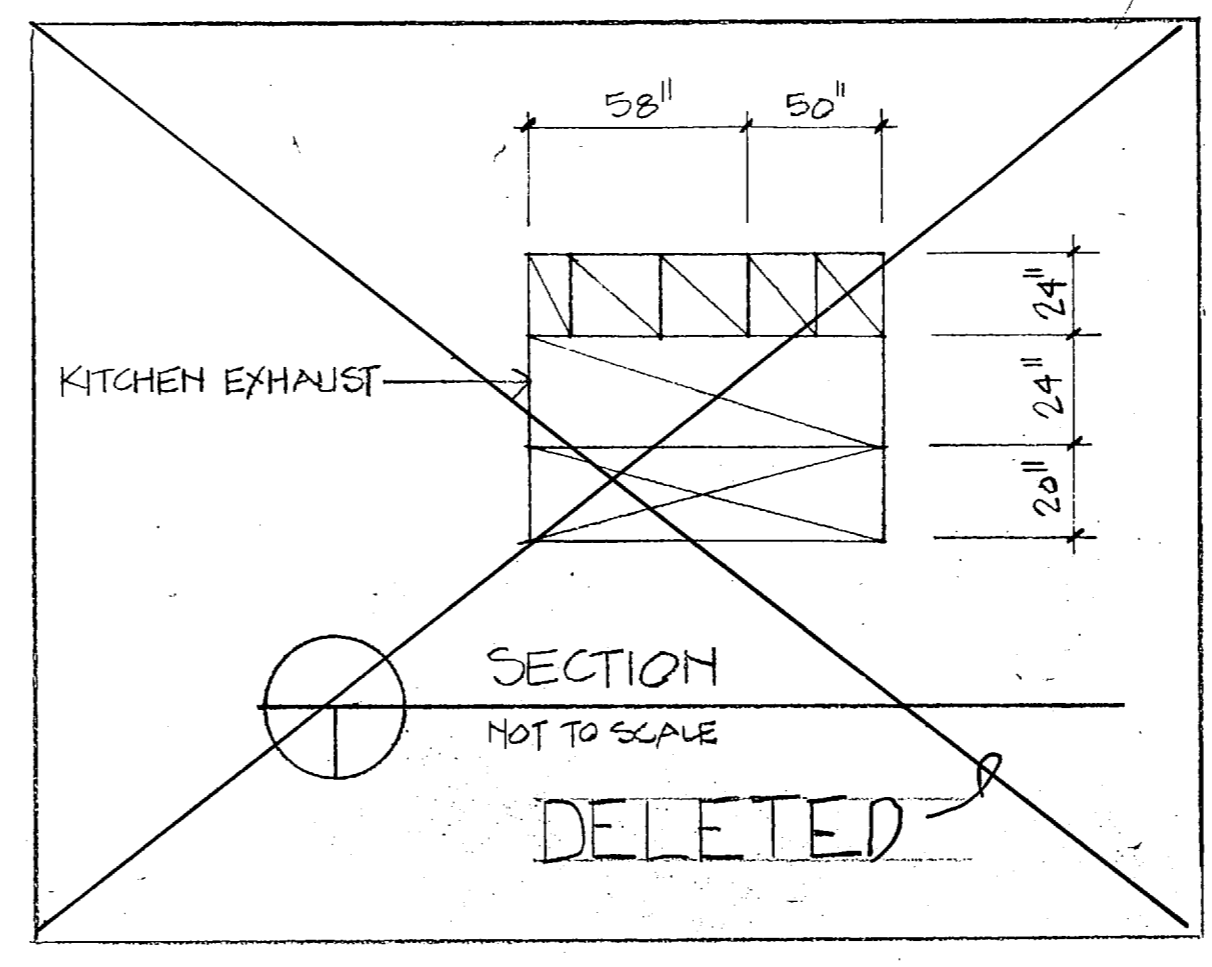
NO.

SCALE

1/4" = 1'-0"



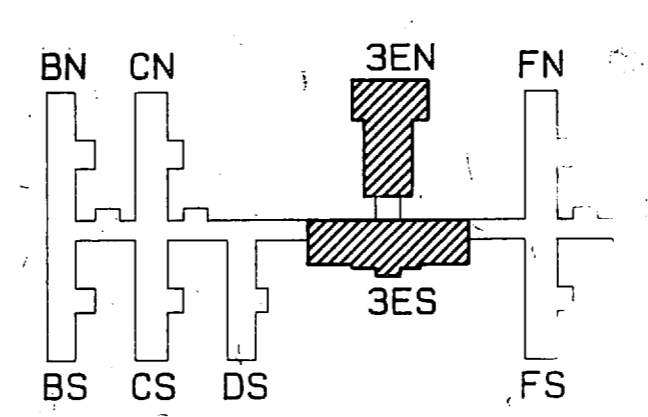
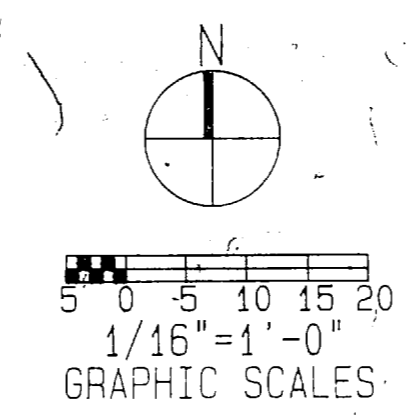
SYM
1 GENS.



SEE REFERENCE DRAWING 2305G FOR STEAM SUPPLY & RETURN PIPING TO 2ES.

SEE REFERENCE DRAWING 2- SUPPLY & RETURN PIPING FOR 2

2EN & 2ES
1/8" = 1'-0"

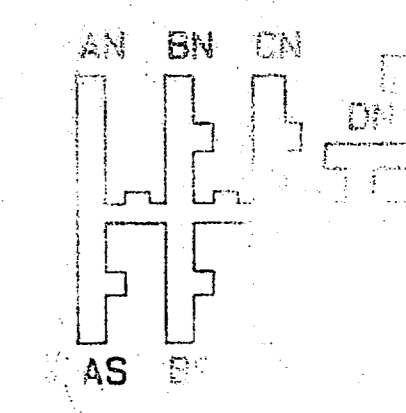
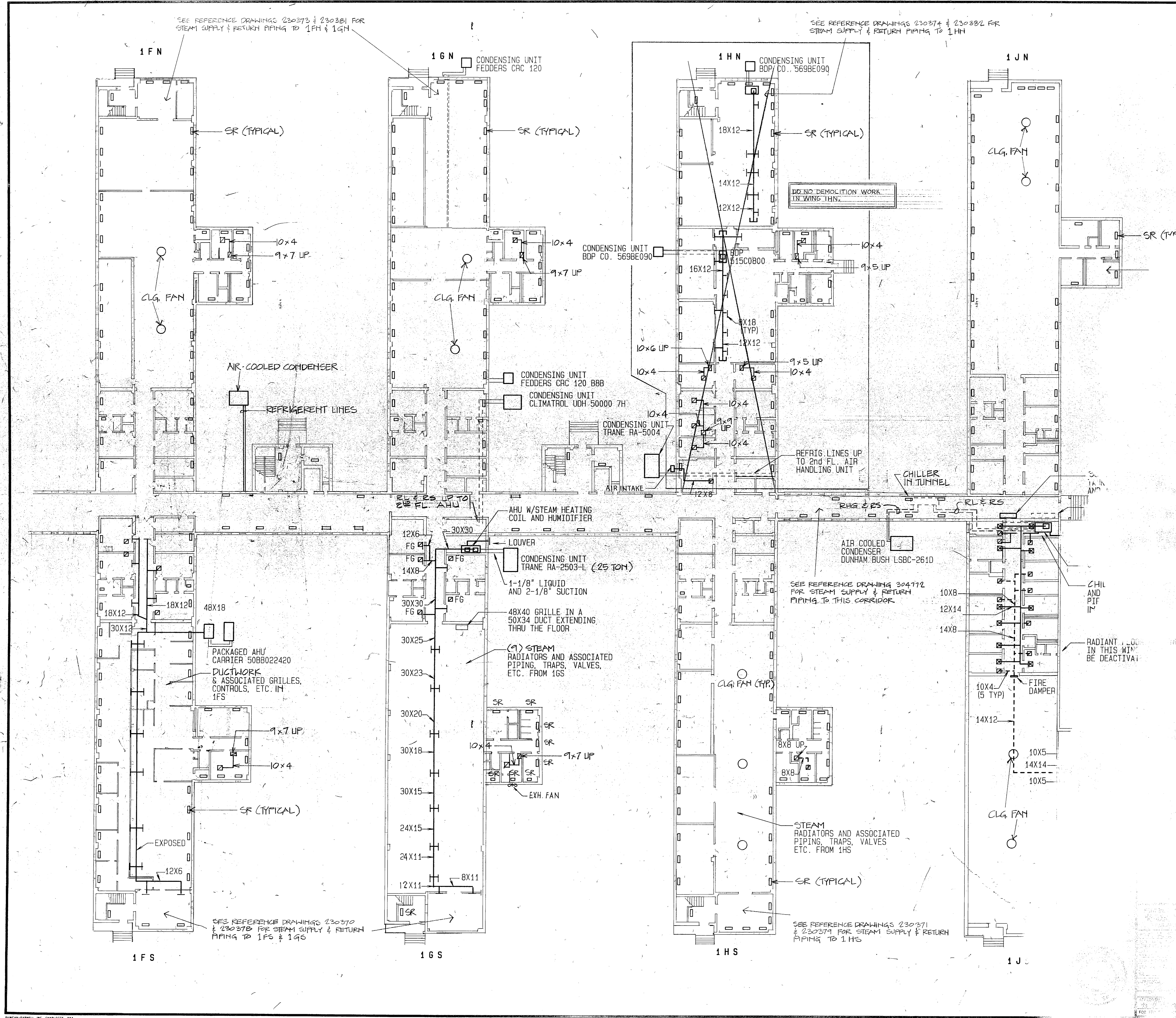


PROJECT	DATE
DESIGNED BY	CHECKED BY
DRAWN BY	DATE
SCALE	DATE
APPROVED BY	DATE
PROJECT NO.	DATE

1550



SYM	GENERAL
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NAVAL STATION
MARINE CORPS
CON DIVISION
DEM
KEY CODE





NEW WORK GENERAL NOTES - MECHANICAL

- 1- RUN DUCT INSULATED 1 1/2" IN 12" SEE EXHIBIT FOR DETAILS PER SPEC.
- 2- PROVIDE EXISTING PLUMBING WORK WITH FRESH AIR ROOM IN A NEARBY AREA LEAKAGE DAMPER.

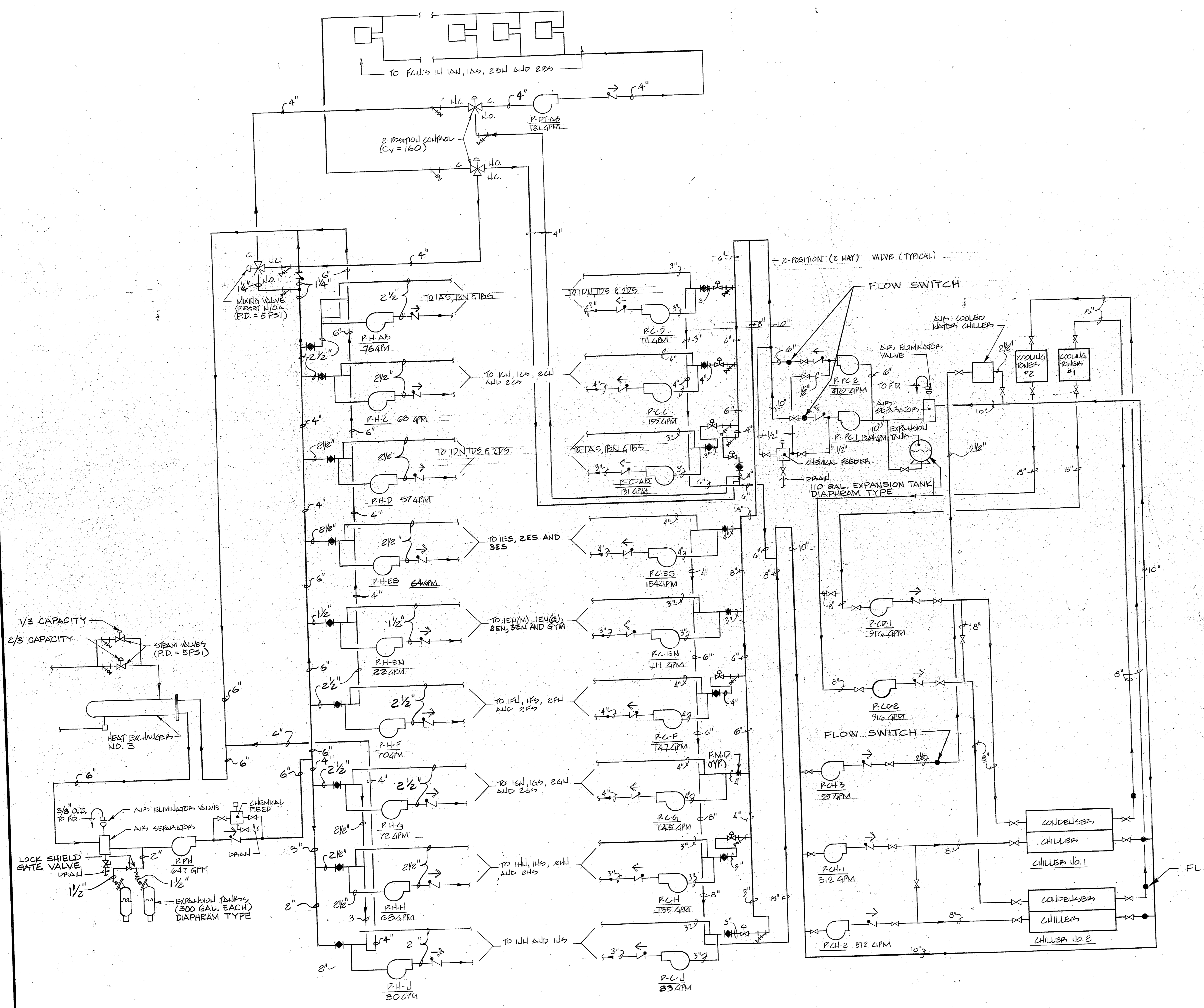
THE WORKMAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE WORKMAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE WORKMAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL CODES AND REGULATIONS. THE WORKMAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE WORKMAN SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

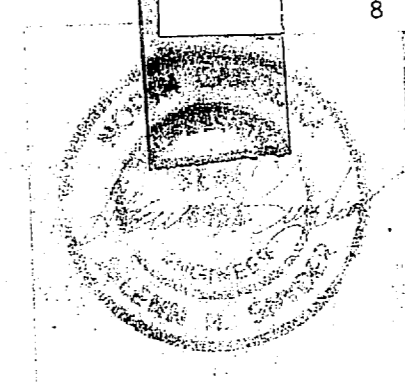
STEAM AND CONDENSATE PIPING SIZES

Piping Sizes (inches)	Steam Linear Feet	Condensate Linear Feet
1	200	200
1.5	125	125
2	50	50
3	200	100
4	245	0
6	40	0
8	480	0

DATE: 10/1/19
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

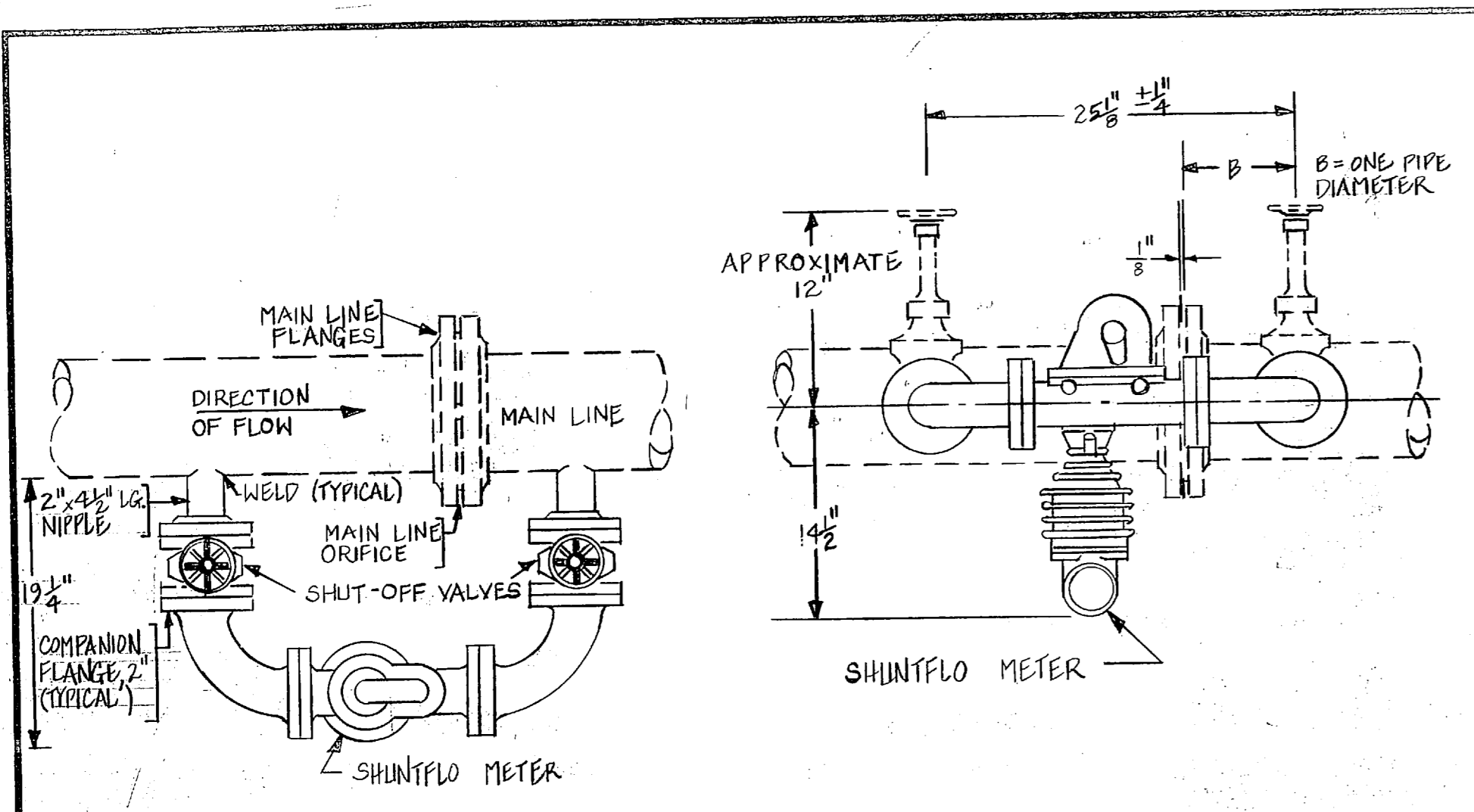


1 PIPING SCHEMATIC
SCALE: 1/8" = 1'-0"

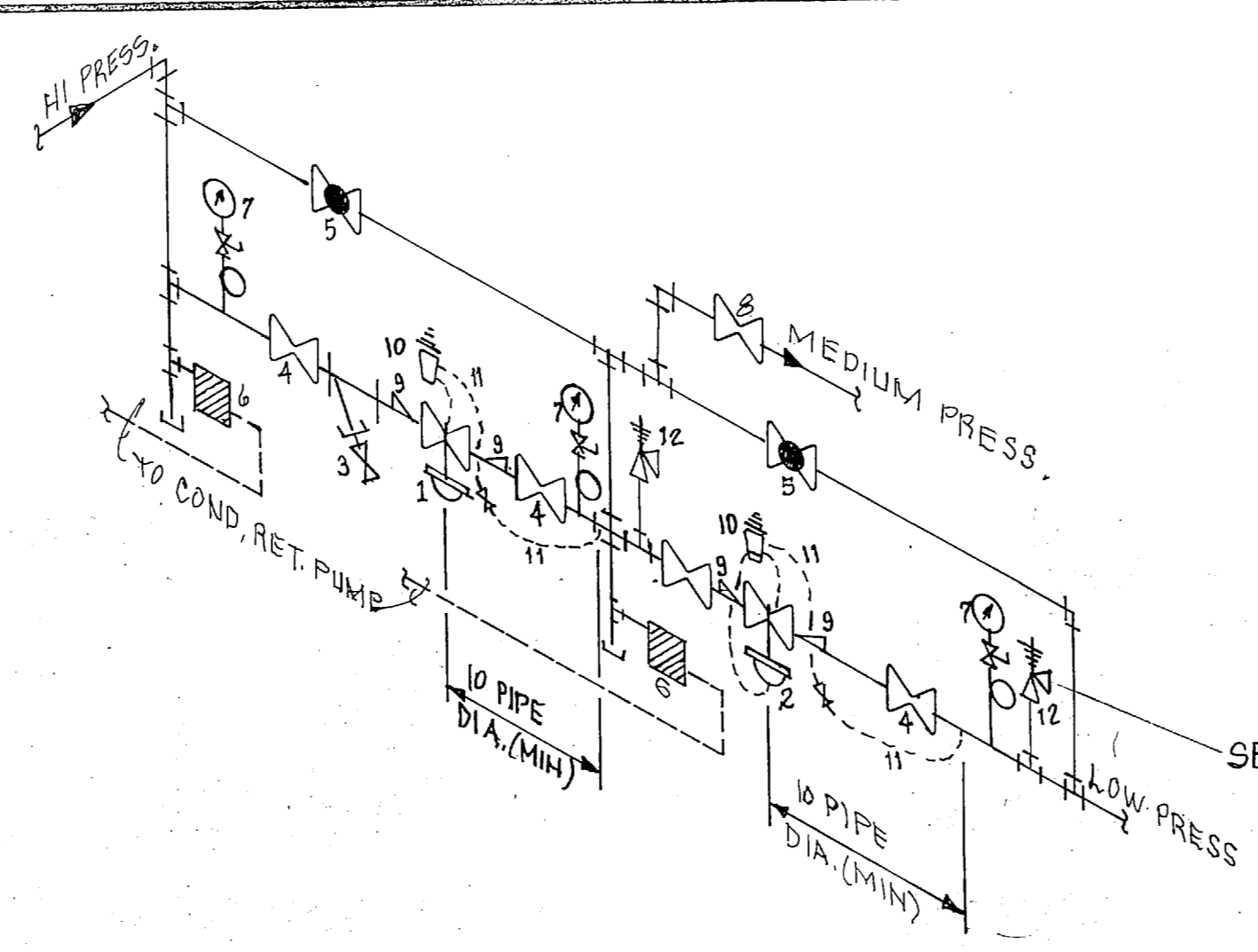


DIVISION
LINE
PITA



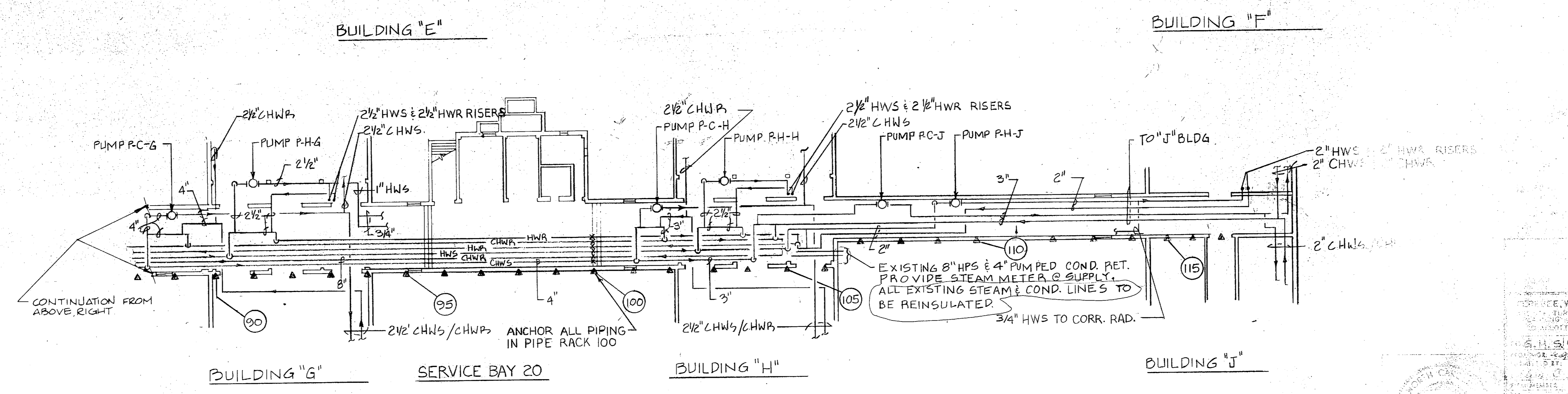
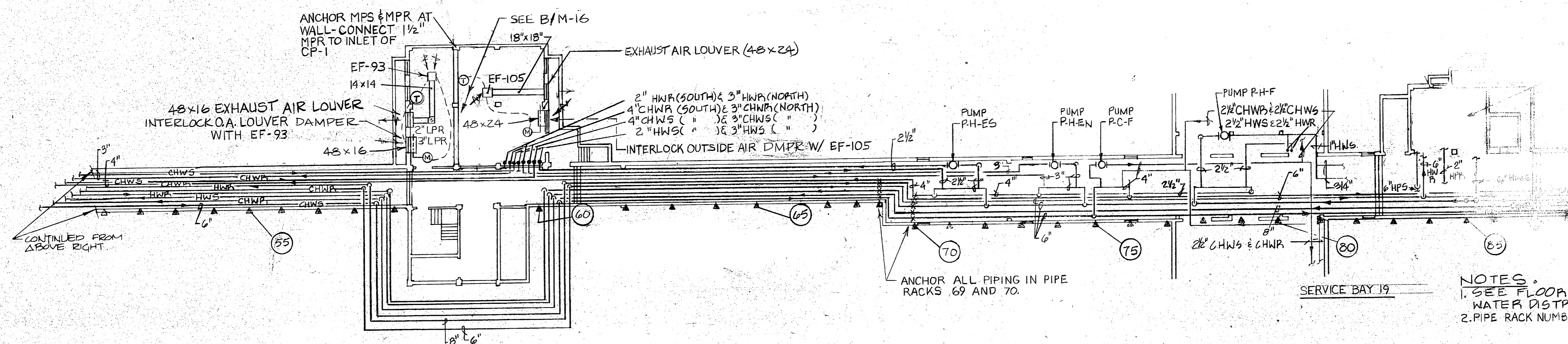
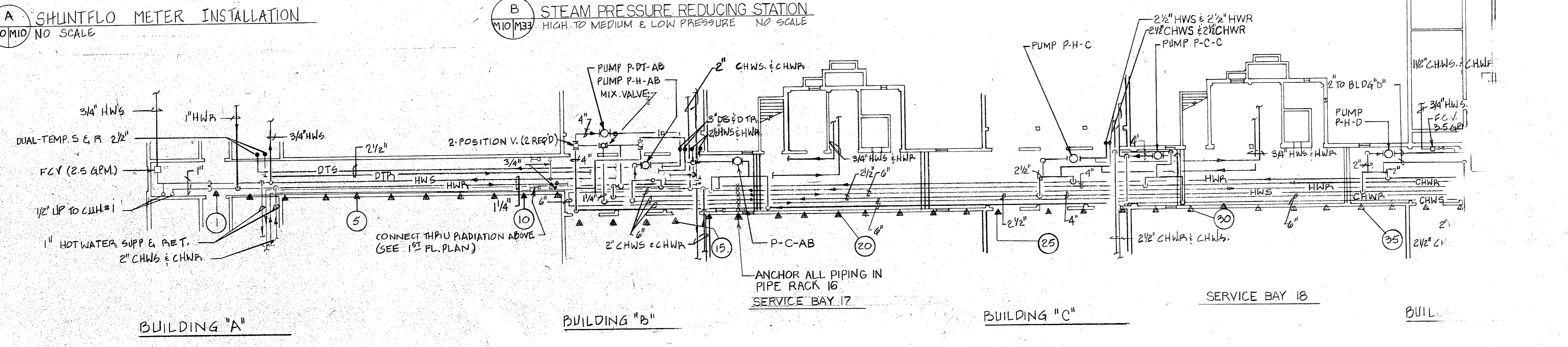


A SHUNT FLO METER INSTALLATION
NO MID NO SCALE



B STEAM PRESSURE REDUCING STATION
HIGH TO MEDIUM & LOW PRESSURE NO SCALE

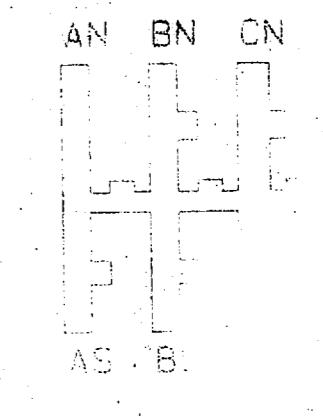
- LEGEND**
1. HI-TO-MED. PRESS. PRV. (150PSI-65 PSI)
 2. MED-TO-LOW PRESS. PRV. (65 PSI-15 PSI)
 3. STRAINER W/ BLOWDOWN V.
 4. GATE VALVE
 5. GLOBE VALVE
 6. PRV. NO. 2 (F&T) TRAP - 8960
 7. PRESS. GAGE W/ STOP COCK & PISTAL (0-200 PSIG)
 8. MED. PRESS SUPPLY TO EQUIP. W/ SHUTOFF V.
 9. REDUCER
 10. PILOT VALVE
 11. PRESSURE SENSOR LINES
 12. PRESSURE RELIEF (SAFETY) VALVE
- SET AT 20 PSI



NOTES

1. SEE FLOOR PLANS FOR CONNECTION WATER DISTRIBUTION LOOPS.
2. PIPE RACK NUMBERS-SECTIONS ARE SHOWN ON

1/16" = 1'-0"
GRAPHIC SCALE



Professional Engineer Seal and Project Information:

PROJECT: [Illegible]

DATE: [Illegible]

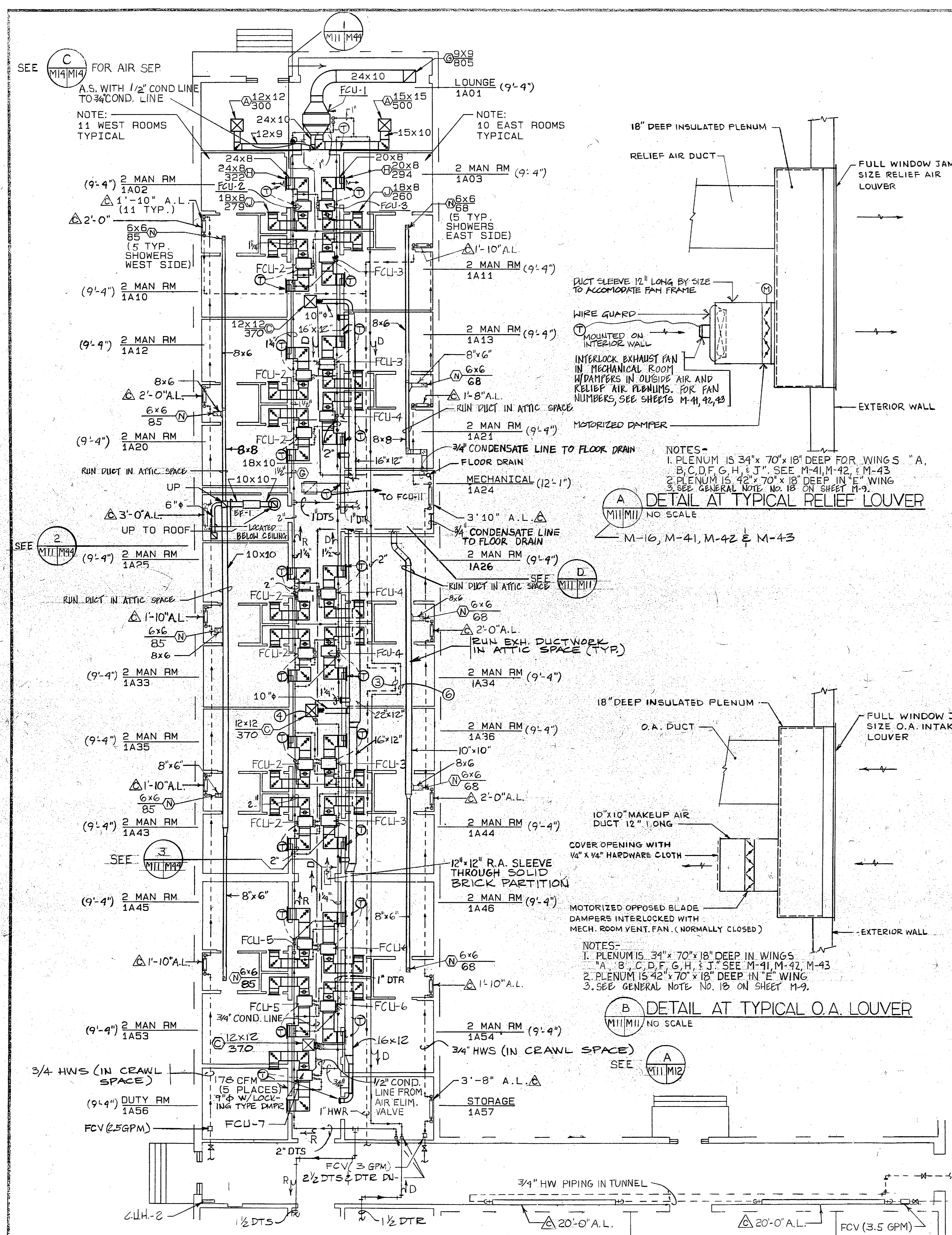
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BY: [Illegible]

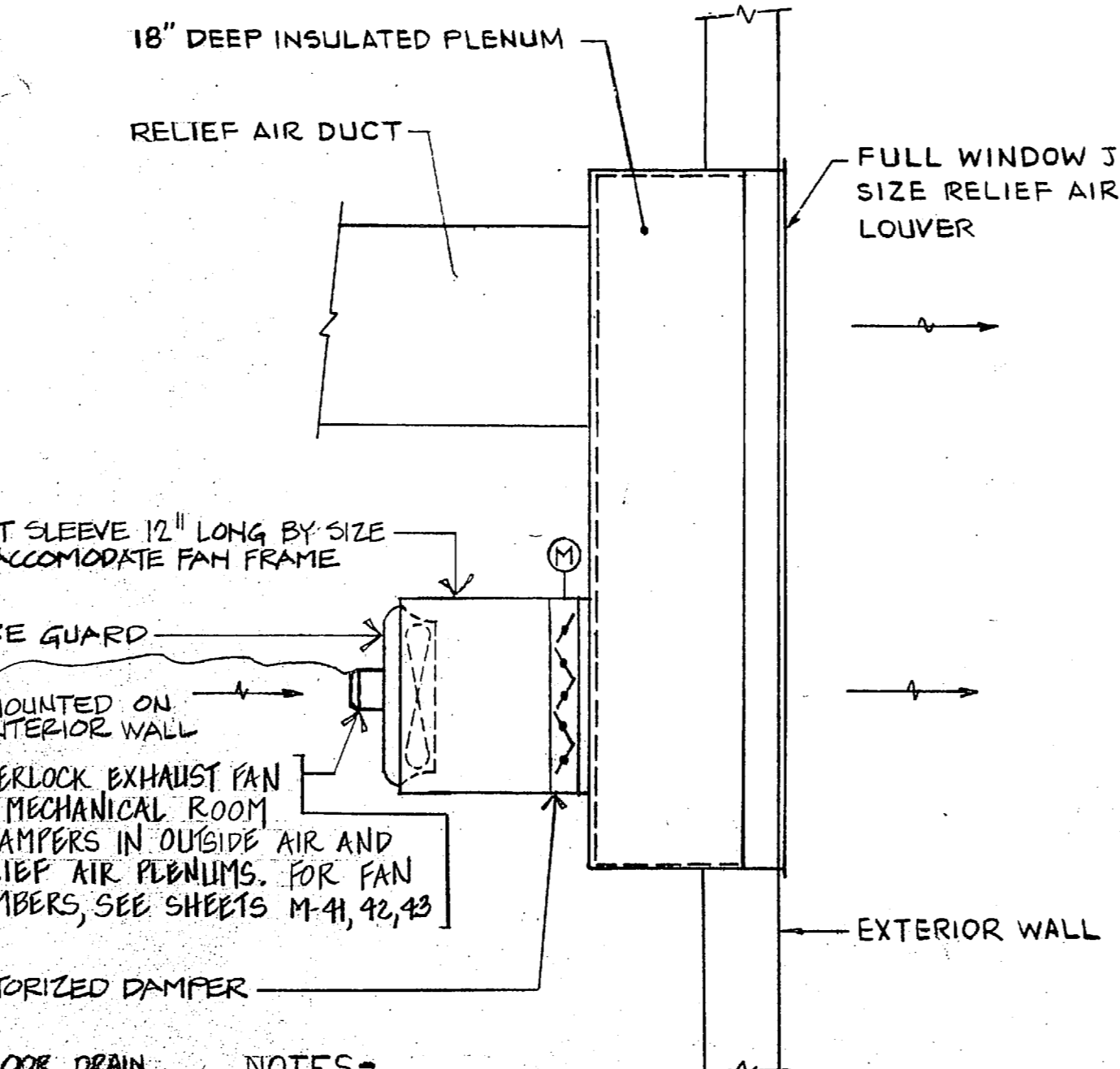
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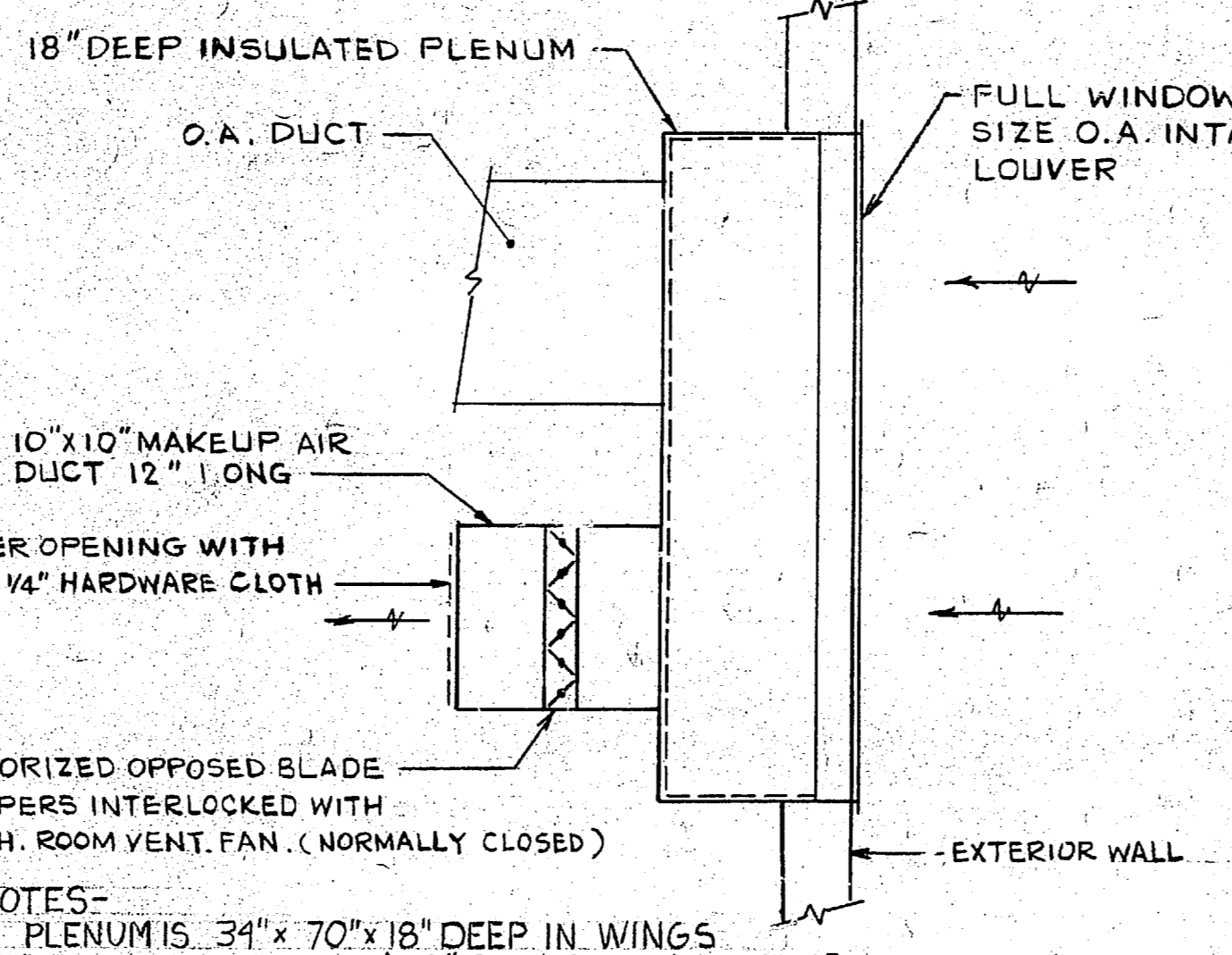




MECHANICAL PLAN - 1A NORTH
1/8"=1'-0"

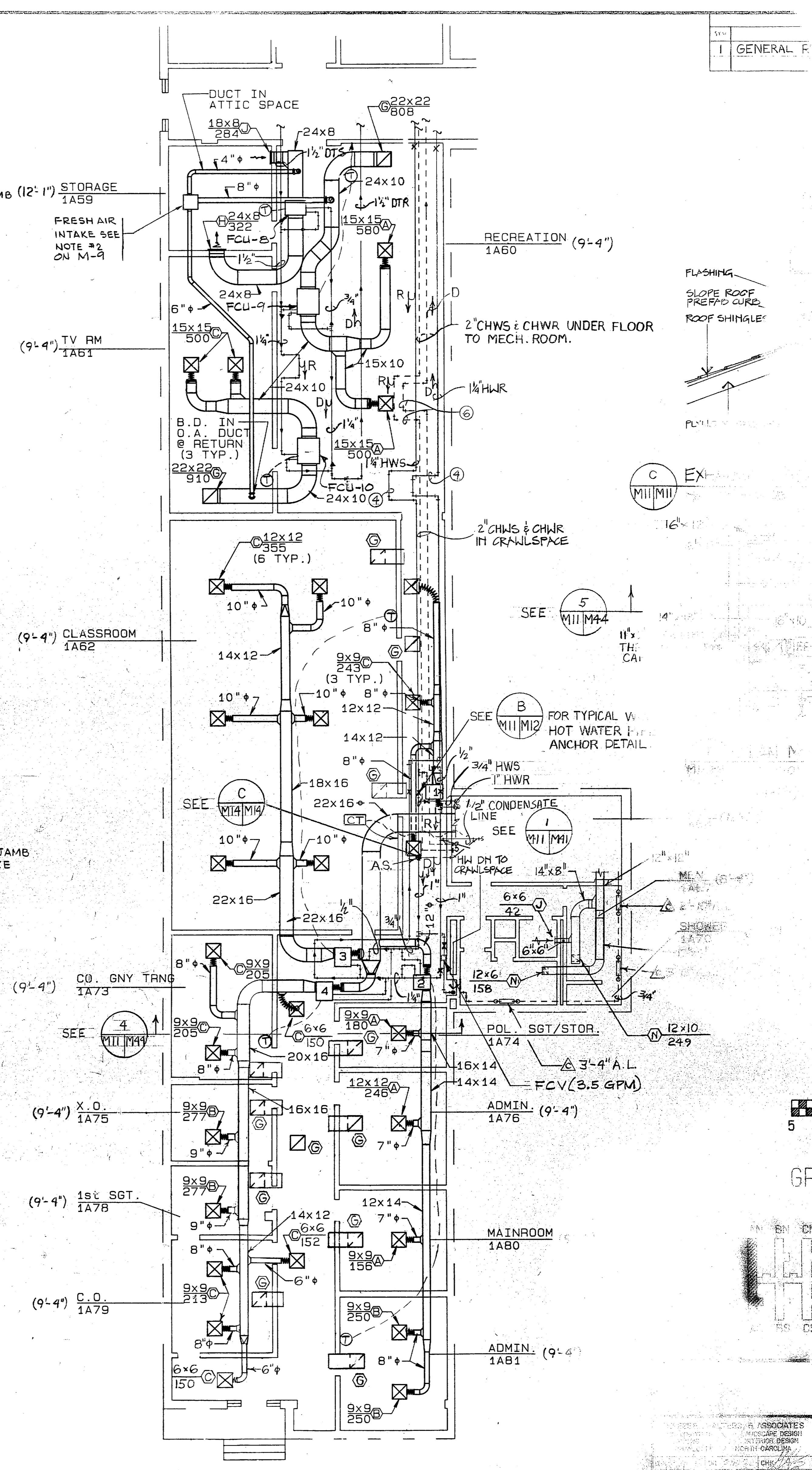


DETAIL AT TYPICAL RELIEF LOUVER
NO SCALE
M-16, M-41, M-42 & M-43



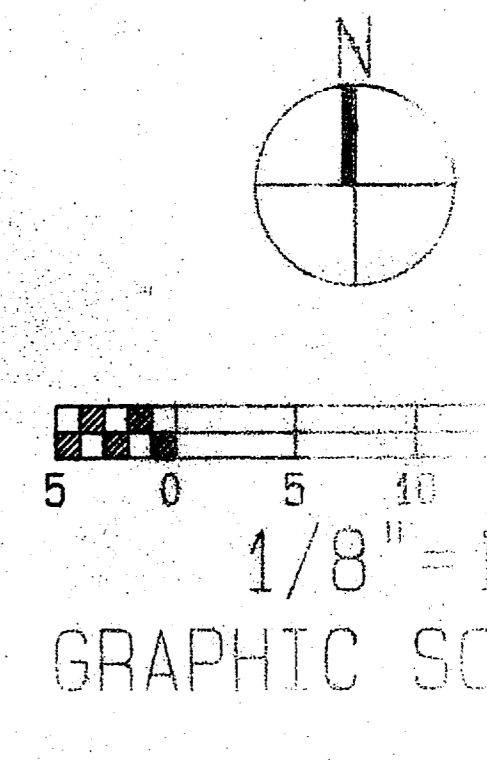
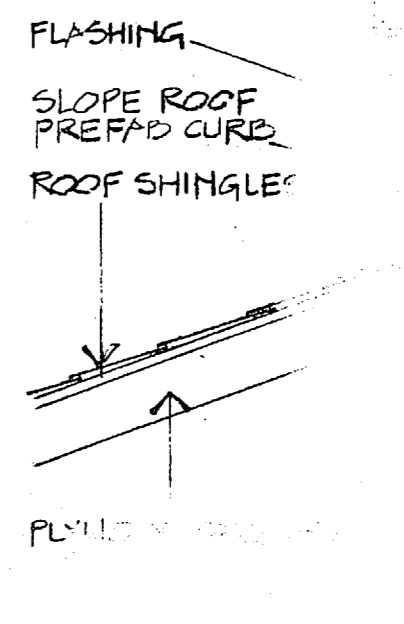
DETAIL AT TYPICAL O.A. LOUVER
NO SCALE
SEE M-112

NOTE - SEE SHEET M-14 FOR CHILL WATER & HOT WATER AIR SEPARATION SCHEMATICS.
SEE SHEET M-48 FOR DUCT INSULATION CLARIFICATION DETAIL FOR ALL JOB DUCT SYSTEMS.



MECHANICAL PLAN - 1A SOUTH
1/8"=1'-0"

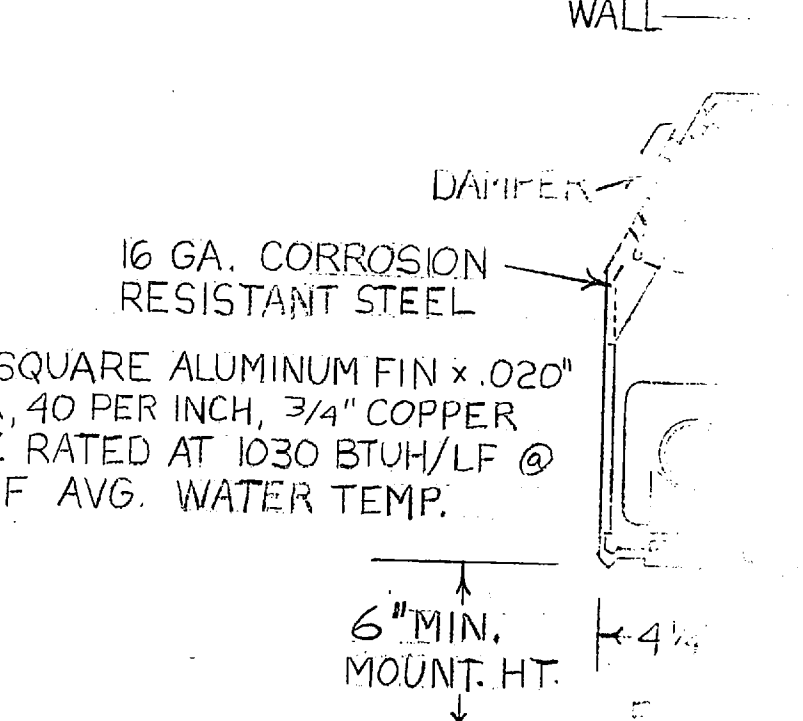
GENERAL



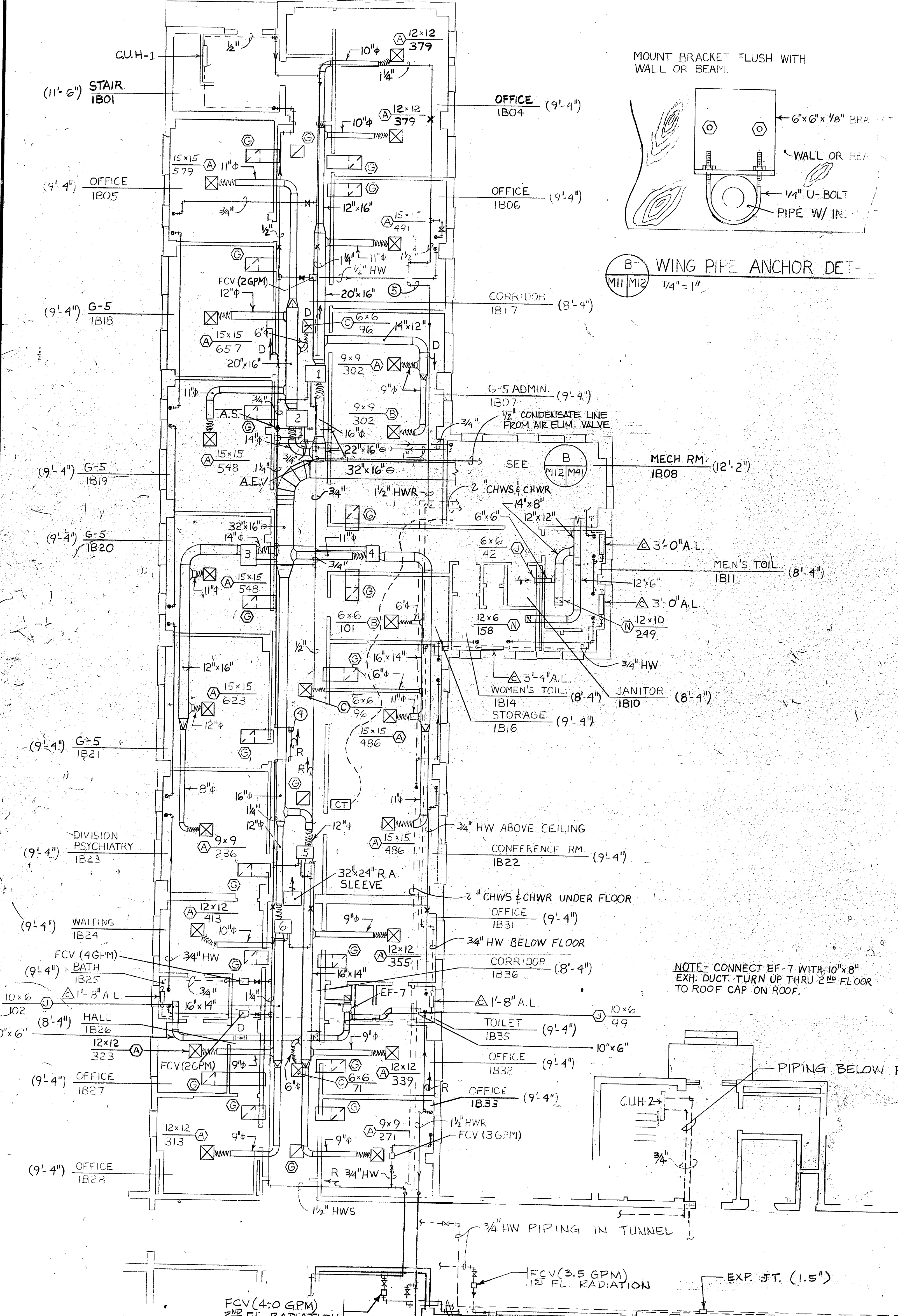
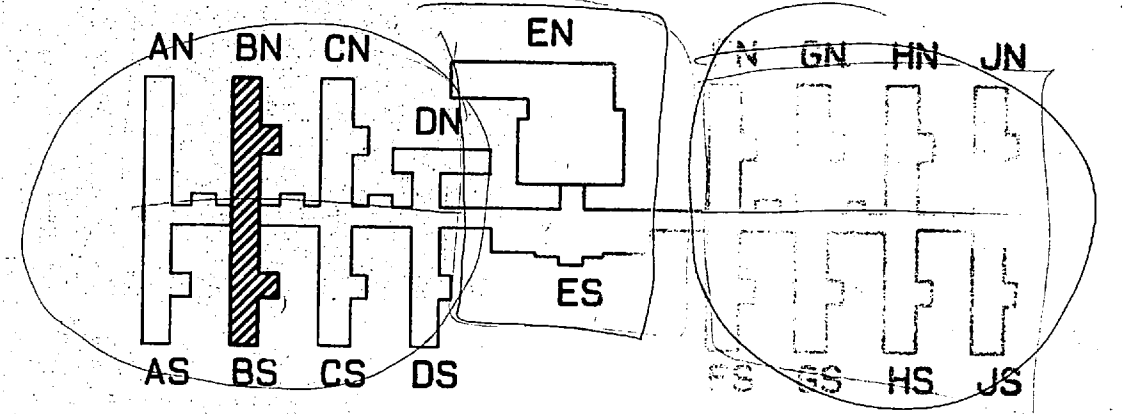
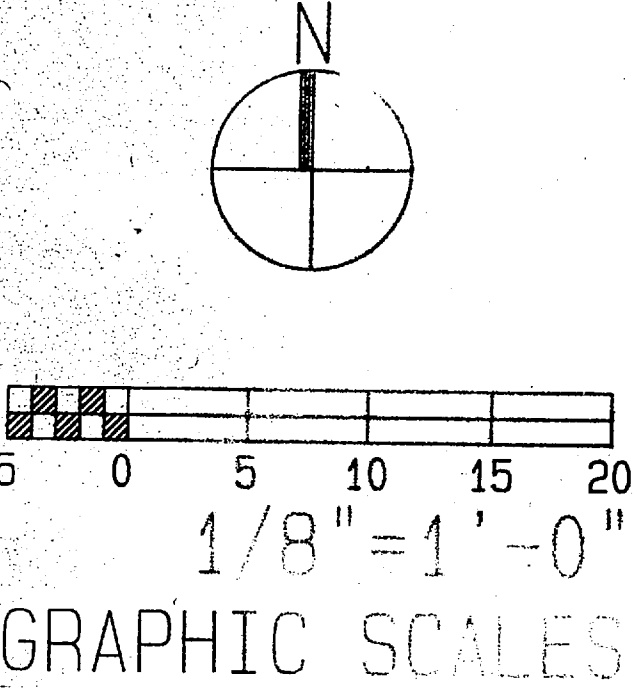
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT NO.	
SHEET NO.	
TITLE	
OFFICE IN CHARGE	

SYM.	DESCRIPTION	REVISIONS
1	GENERAL REVISION	1

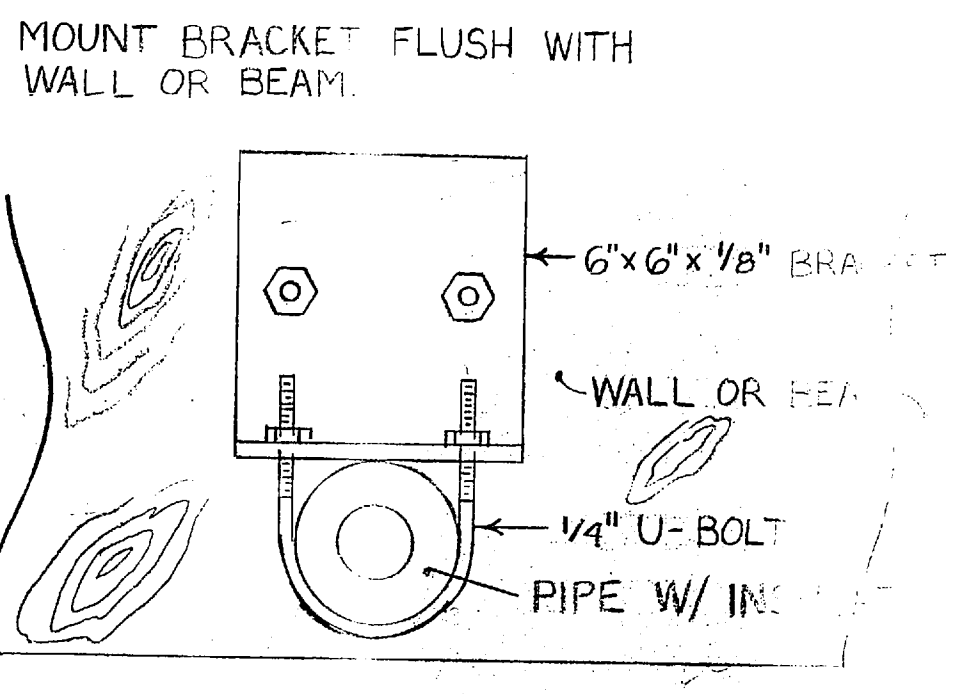
- NOTES
1. PROVIDE A MANUAL AIR VENT FOR RETURN AIR ON THE RETURN SIDE.
 2. PROVIDE AN END COVER ON THE RETURN AIR SIDE WITH ACCESS DOOR ON THE SIDE.



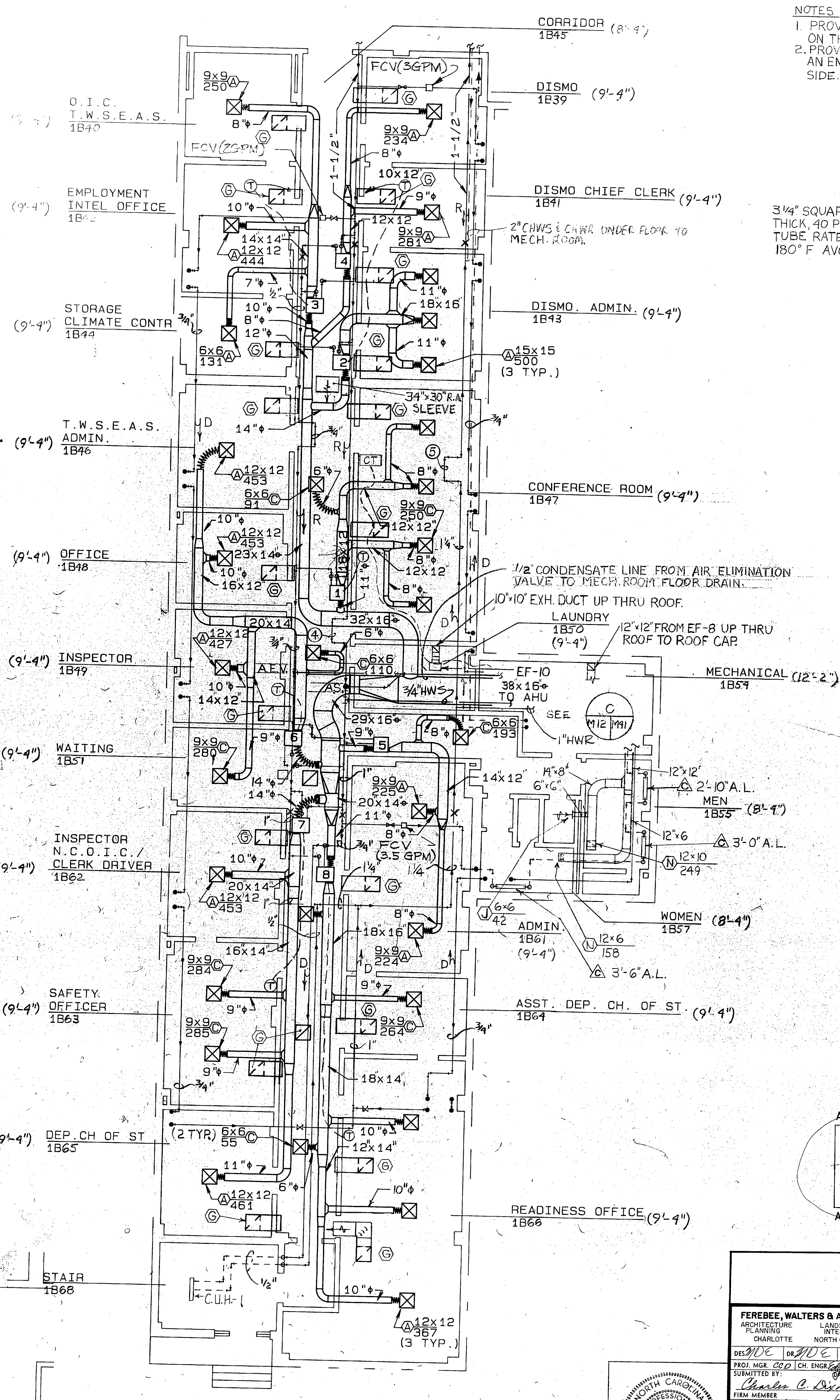
A RADIATOR
NO SCAL



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



B WING PIPE ANCHOR DET.
1/4"=1'



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

NOTE - CONNECT EF-7 WITH 10\"/>

PIPING BELOW FLOOR (9'-4")

EXP. JT. (1.5")

M-12

FEREBEE, WALTERS & ASSOCIATES
ARCHITECTURE
LANDSCAPE DESIGN
PLANNING
CHARLOTTE, NORTH CAROLINA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING DIVISION
ATLANTIC DIVISION
MARINE CORPS HEADQUARTERS
P.O. BOX 1185
FORT MONROE, VIRGINIA 22034

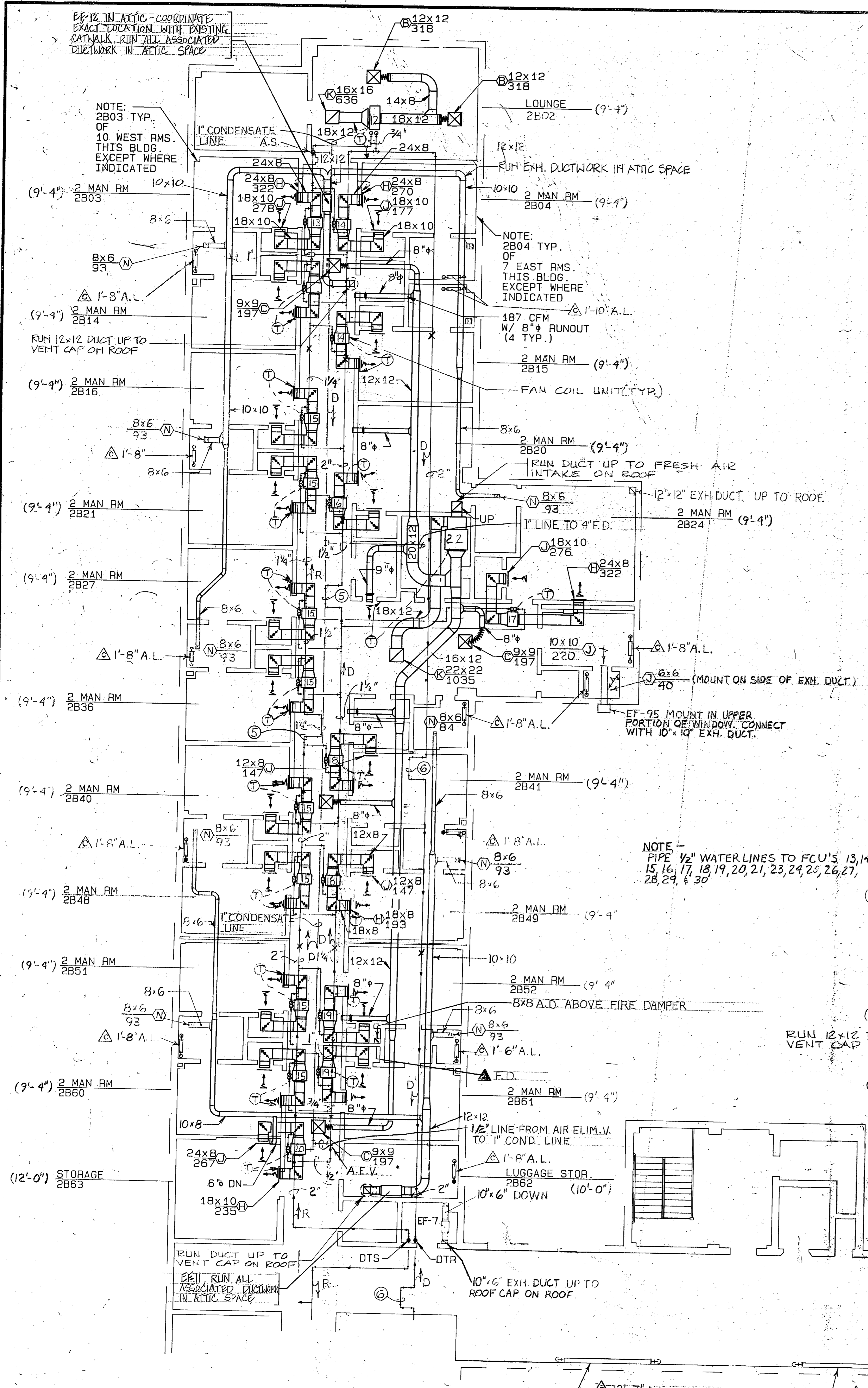
PROJECT: CAMP LEJEUNE, NORTH CAROLINA
SUBMITTED BY: *Charles C. Dixon*
DATE: *12 July 55*

APPROVED: *[Signature]* DATE: *12 July 55*
OFFICER IN CHARGE

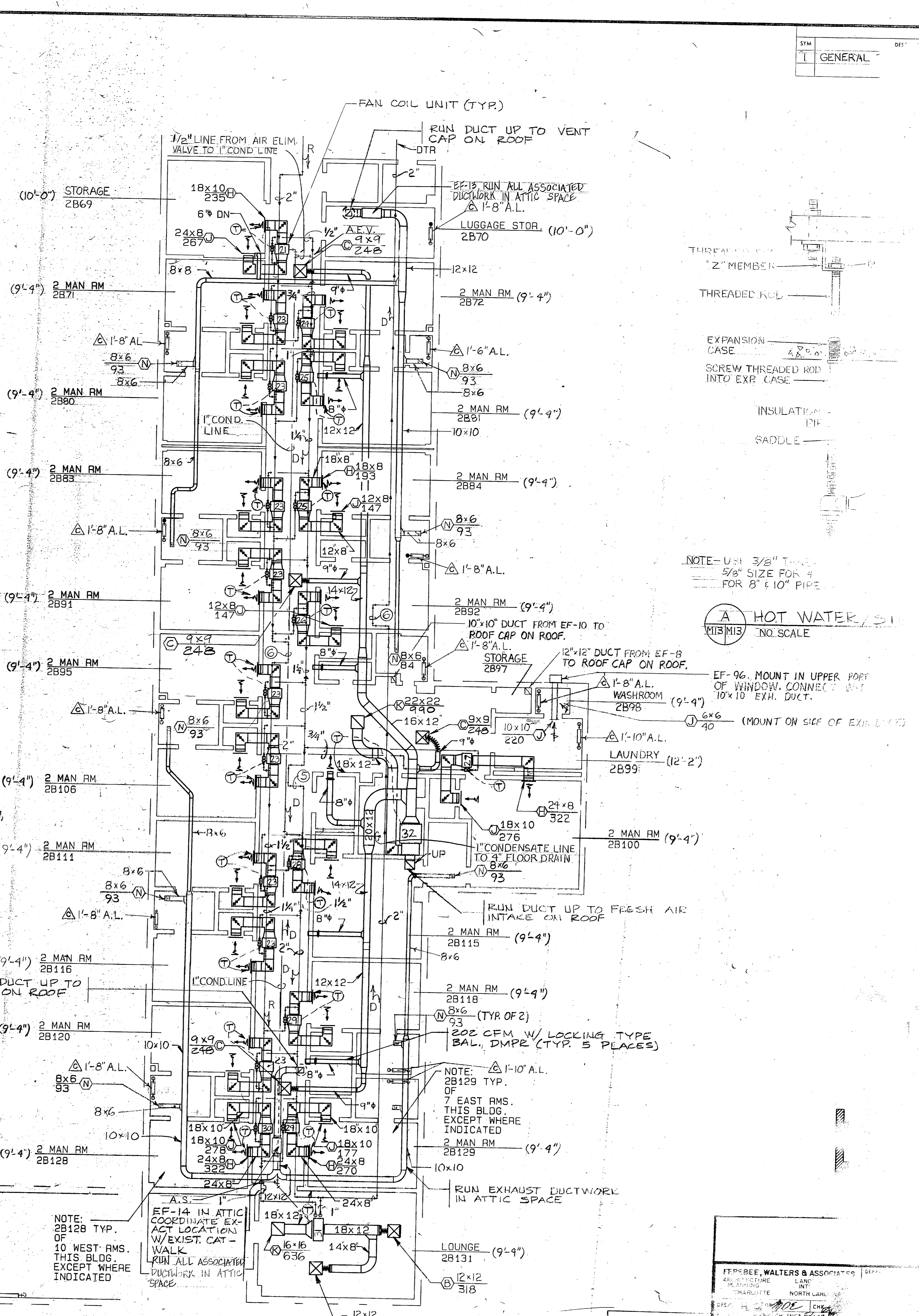
SCALE: *1/8"=1'-0"*



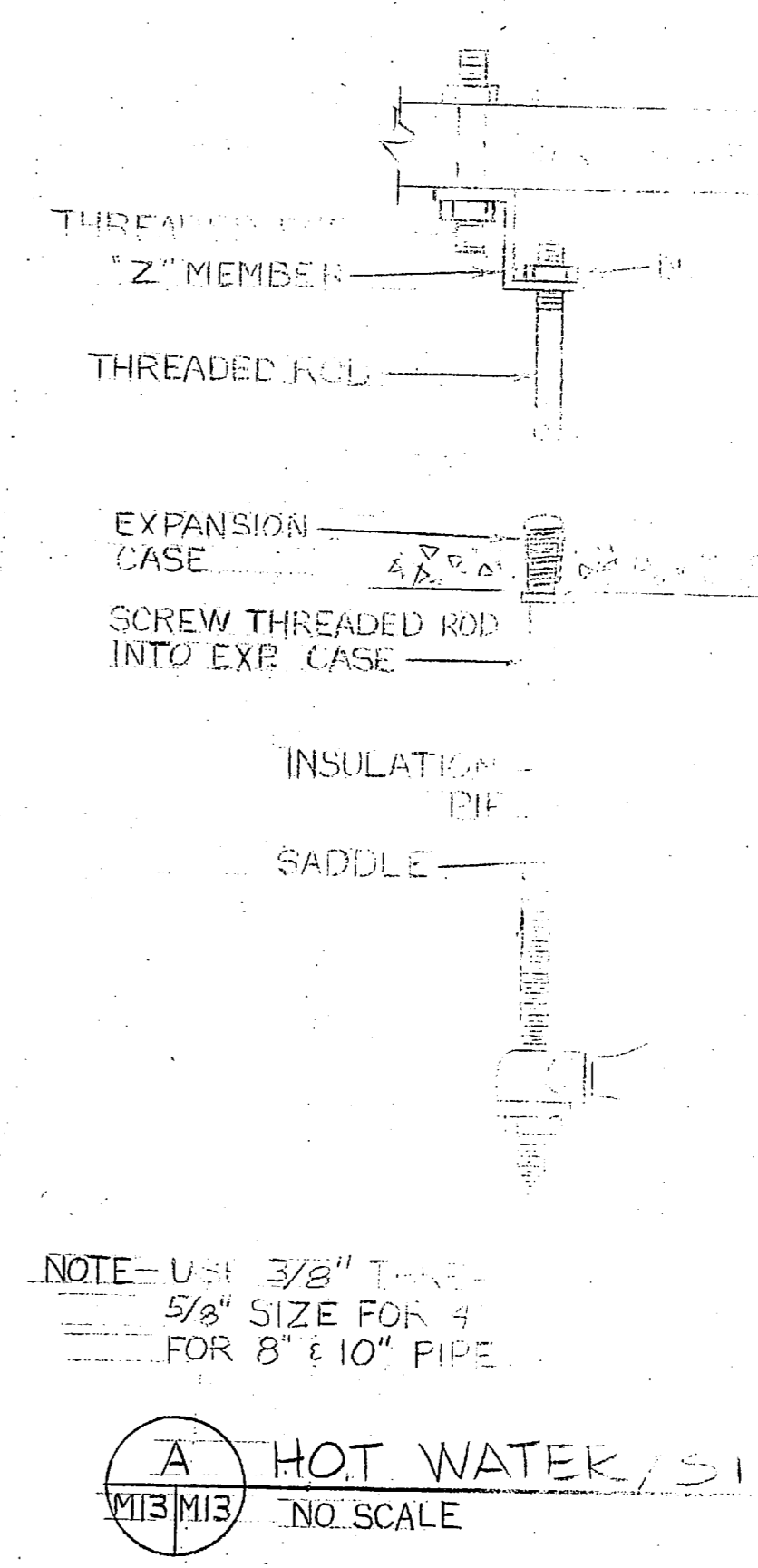
SYM
T GENERAL



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

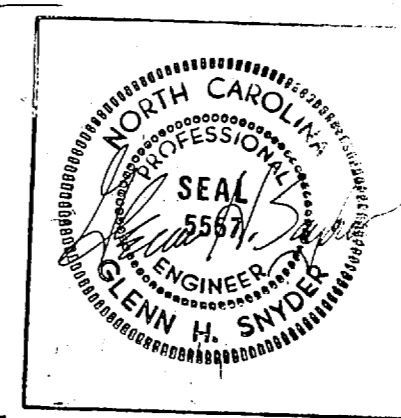
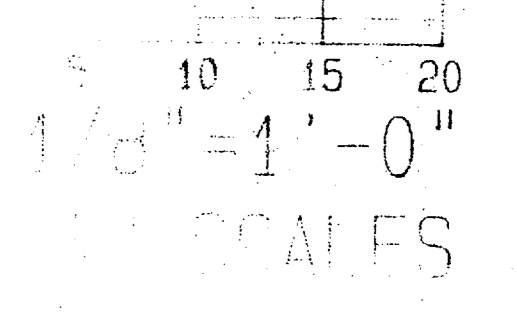


MECHANICAL PLAN - 2B SOUTH
1/8"=1'-0"



NOTE - USE 3/8" TUBING
5/8" SIZE FOR 4"
FOR 8" & 10" PIPE

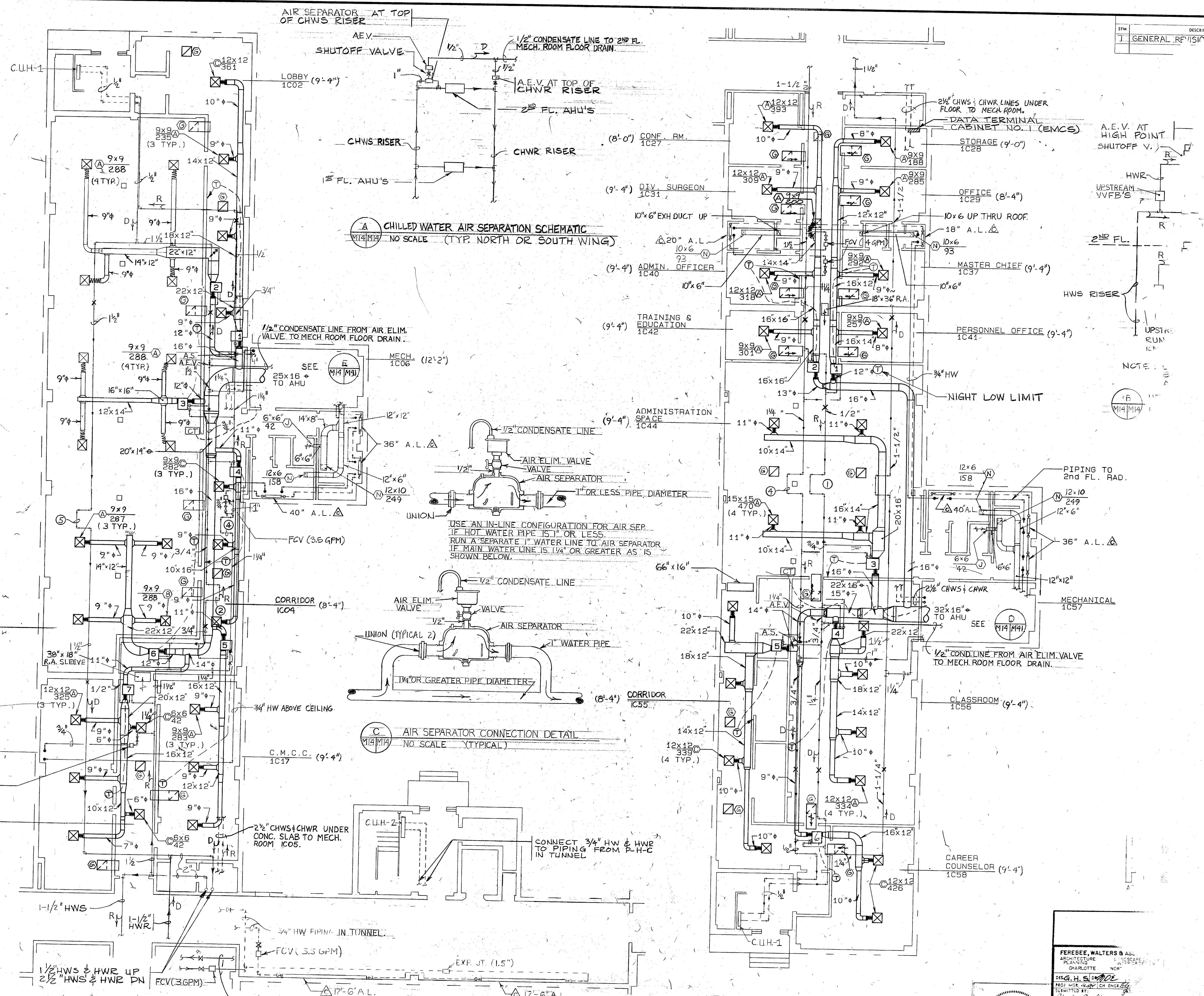
A HOT WATER / S.I.
M.B.M.S. NO. SCALE



<p>M-13</p> <p>TEMPER, WALTERS & ASSOCIATES, INC.</p> <p>ARCHITECTS AND ENGINEERS</p> <p>1000 NORTH CAROLINA AVENUE</p> <p>RALEIGH, NORTH CAROLINA 27601</p>	
<p>PROJECT: HOSPITAL</p> <p>DATE: 6/12</p> <p>SCALE: AS SHOWN</p>	<p>DESIGNED BY: [Signature]</p> <p>CHECKED BY: [Signature]</p> <p>DATE: 6/12</p> <p>IN CHARGE BY: [Signature]</p>



REV.	DESCRIPTION
1	GENERAL REVISION



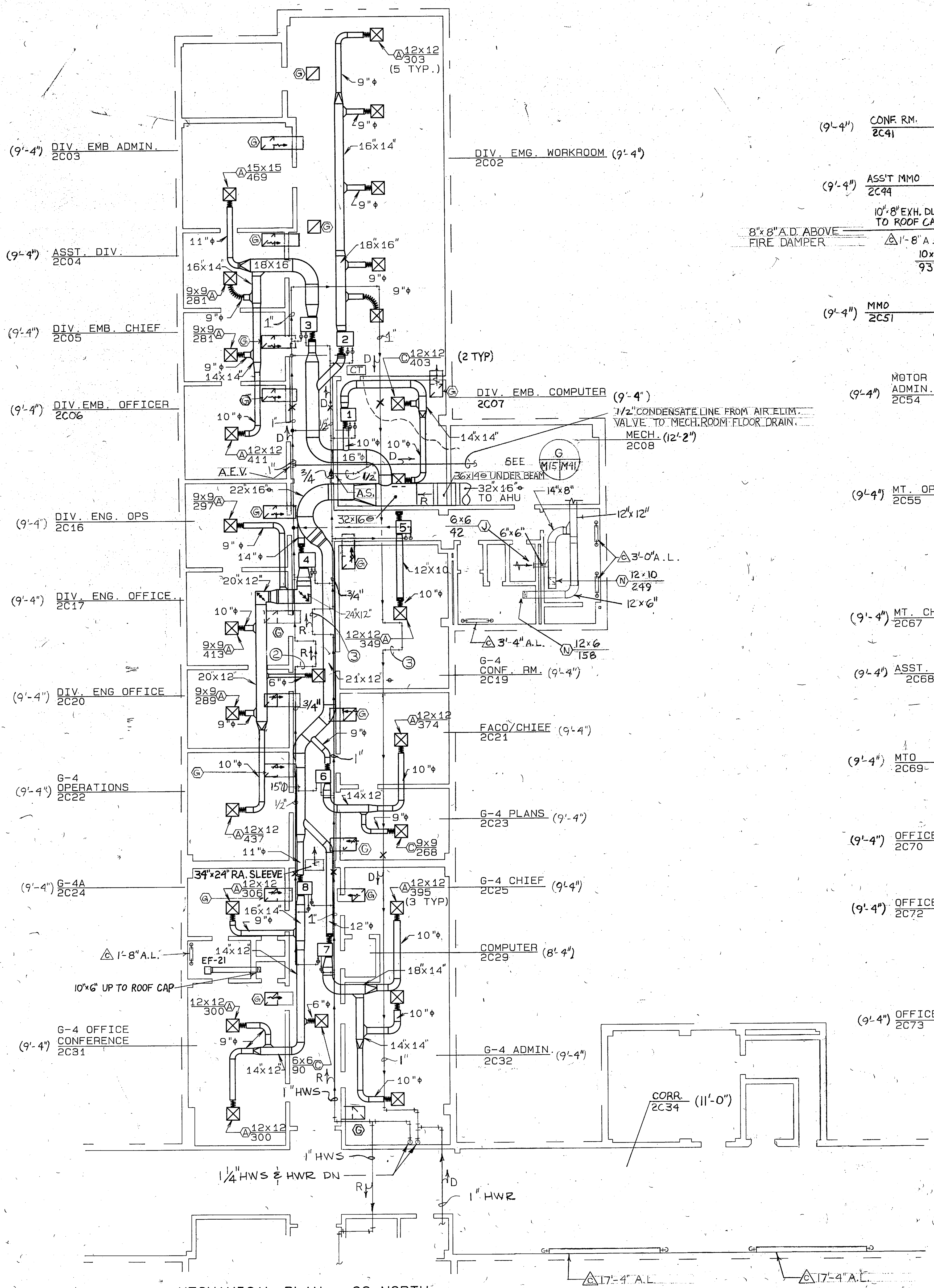
FERREE, WALTERS & ASSOCIATES
ARCHITECTURE
PLANNING
CHARLOTTE, N.C.

DR. G. H. E. [Signature]
PROF. MEM. CIVIL ENGR.
REGISTERED BY
[Signature]
MEMBER
NO. [] DIR. [] DATE []

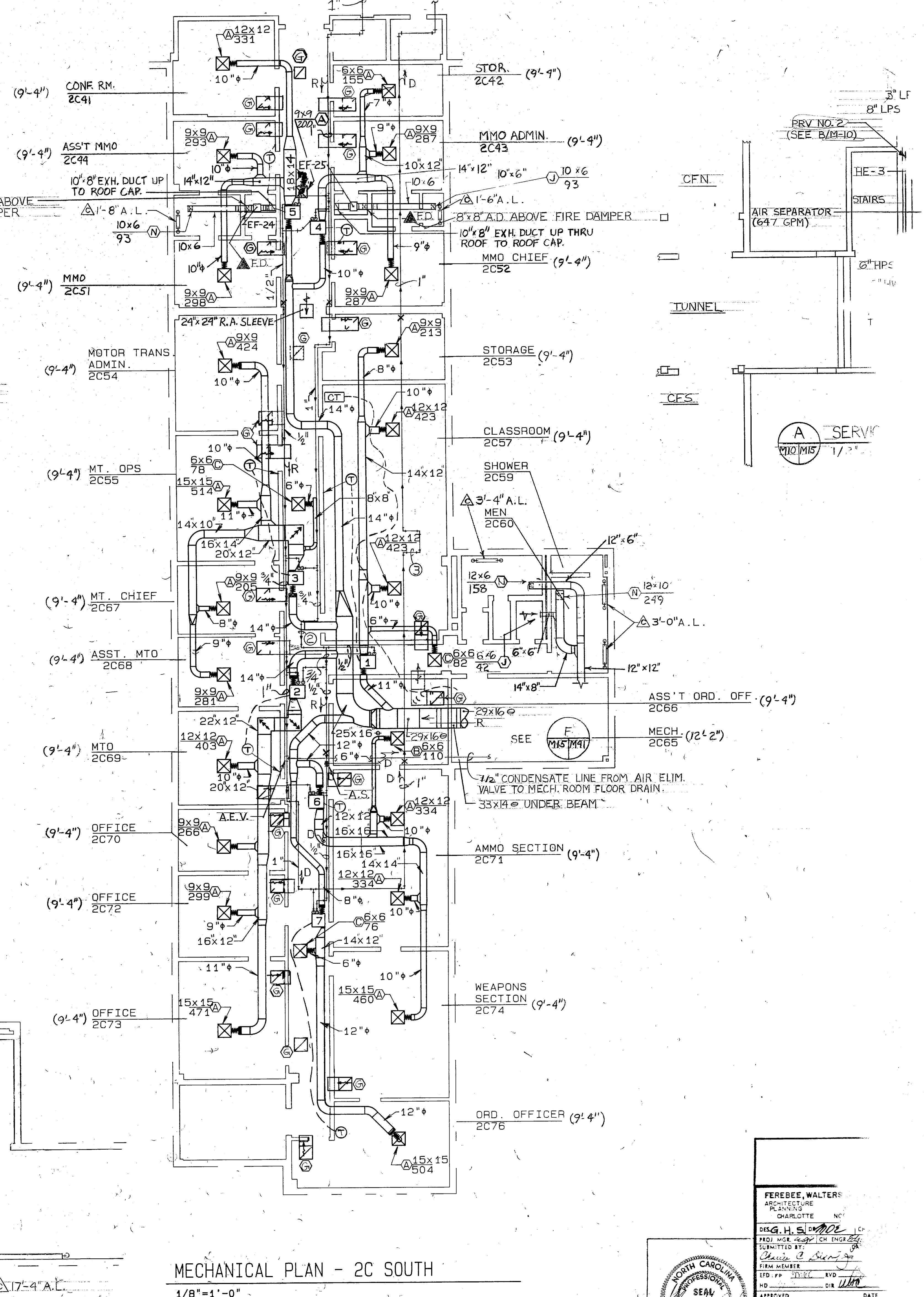
APPROVED: [Signature] DATE []
OFFICER IN CHARGE

FOR FID. FOR COMMANDER, NC

SYM	DE
I	GENERAL REV

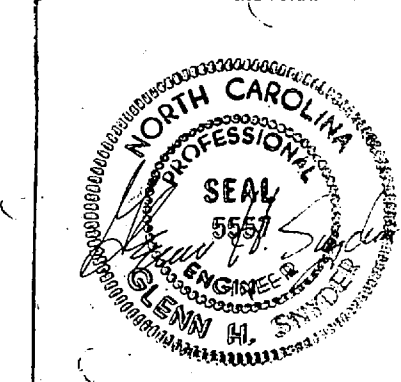


MECHANICAL PLAN - 2C NORTH
1/8"=1'-0"

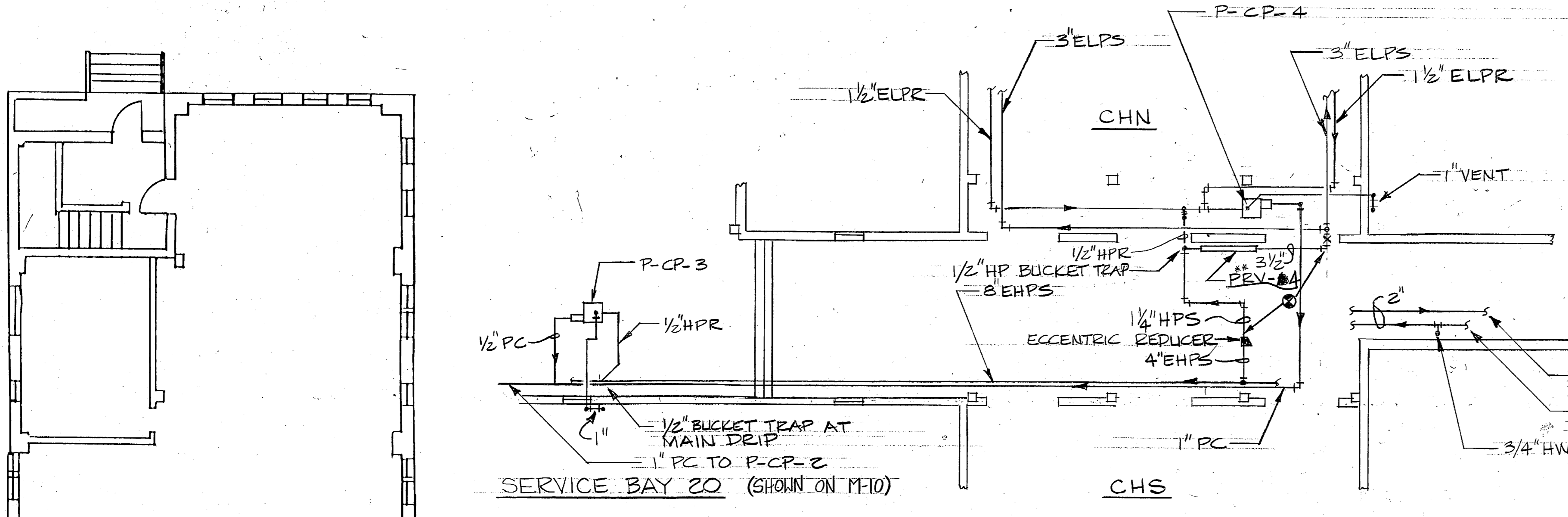


MECHANICAL PLAN - 2C SOUTH
1/8"=1'-0"

FERBEE, WALTERS
MECHANICAL ENGINEERS
CHARLOTTE, NC
DESIGNER: H. S. [Signature]
PROJ. MGR: [Signature]
CHECKED BY: [Signature]
FIRM MEMBER: [Signature]
APPROVED: [Signature] DATE: [Date]
OFFICER IN CHARGE: [Signature]
FOR THE COMMANDER: [Signature]

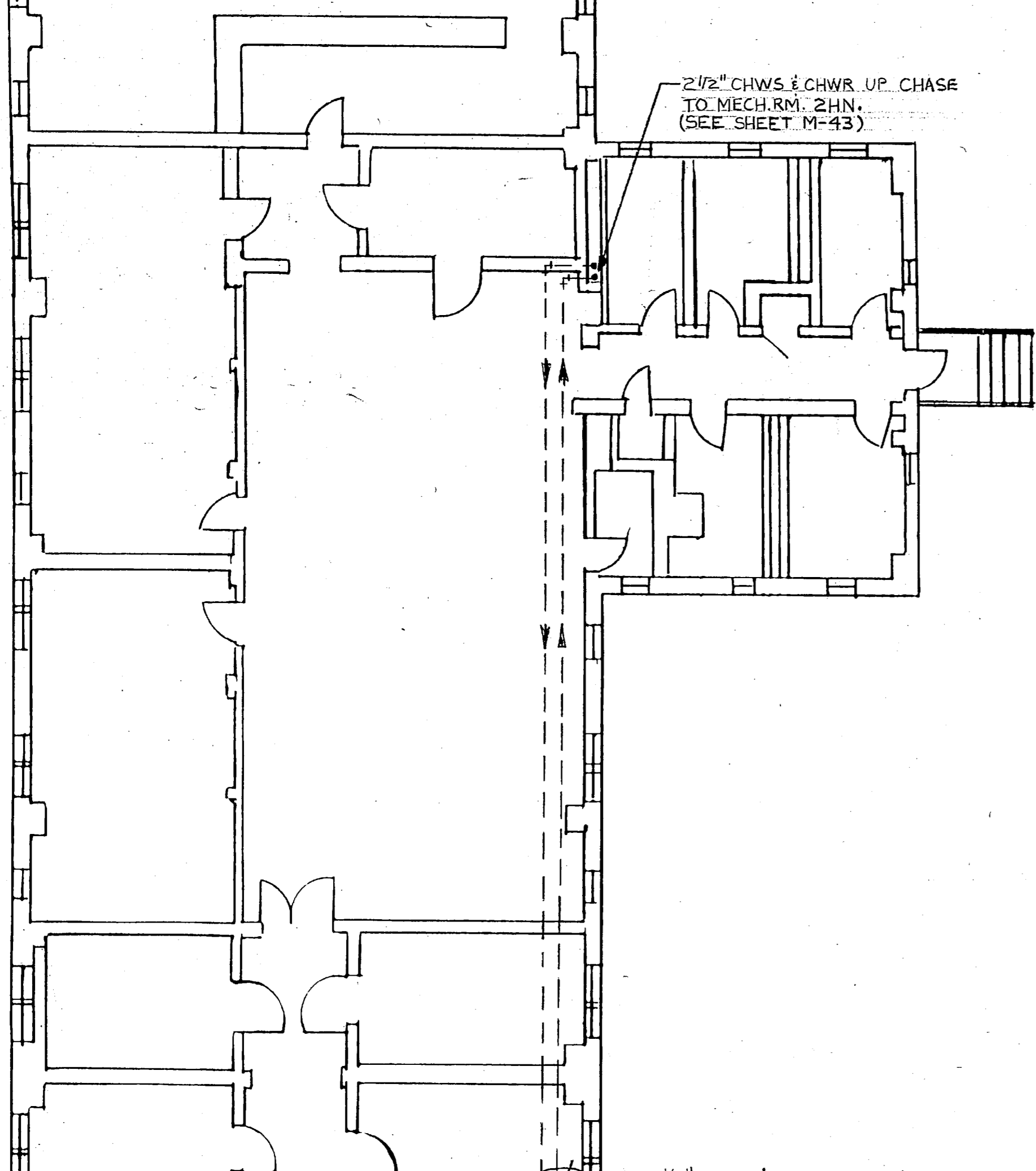


SYM
1 GENERAL



SERVICE BAY 20 (SHOWN ON M10)

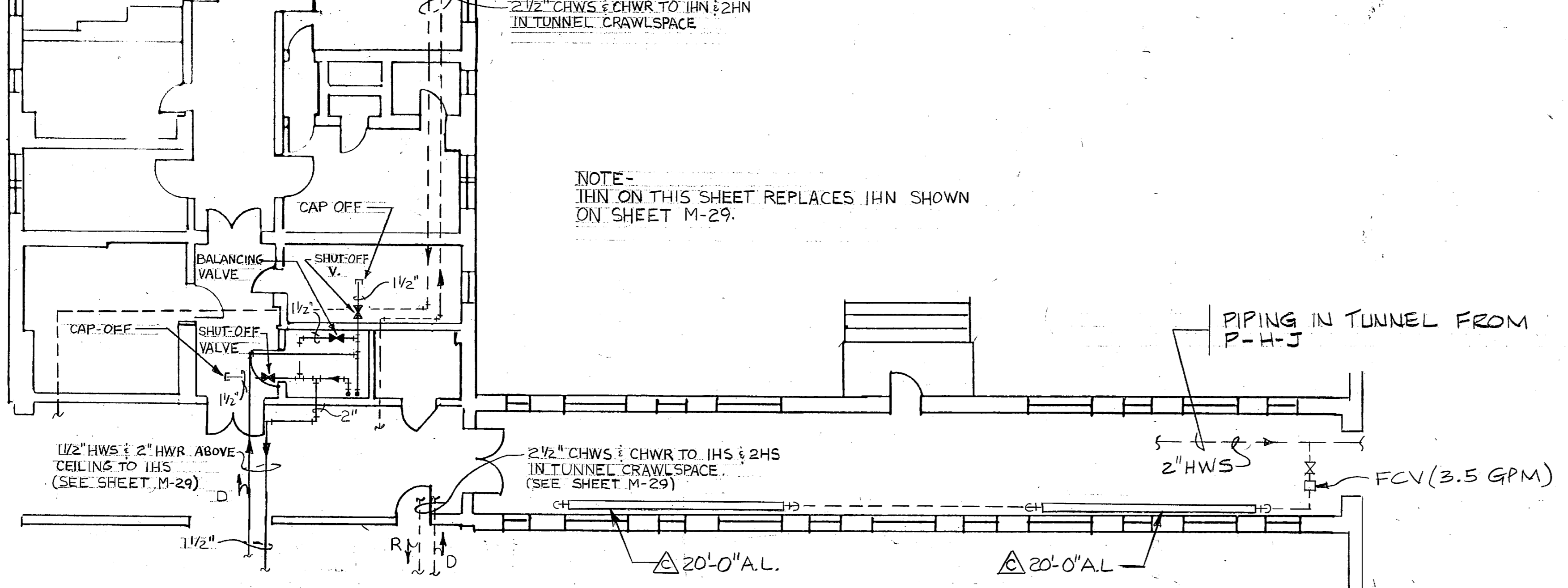
A "H" WING TUNNEL PIPING CHANGES
1/8" = 1'-0"



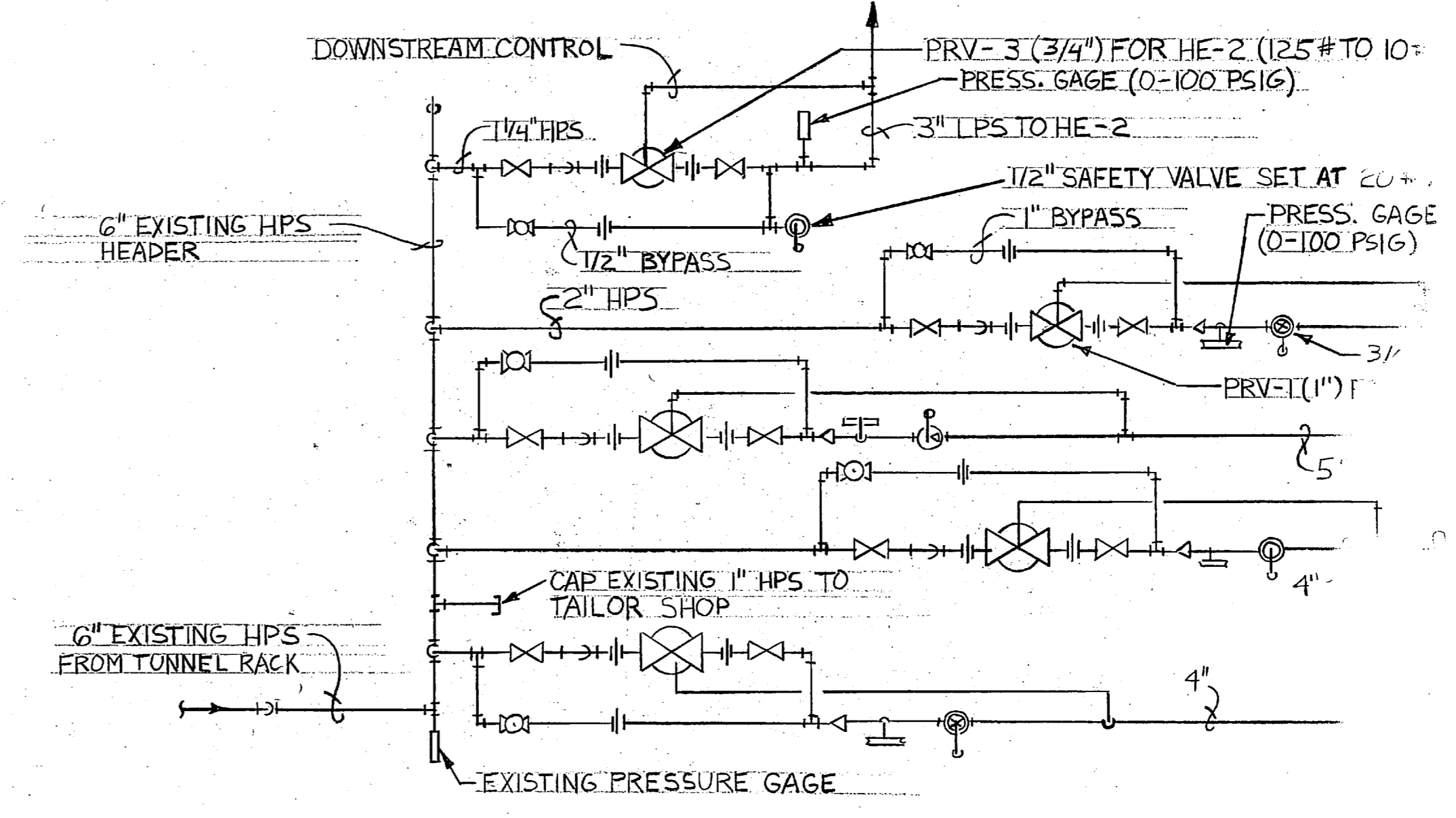
2 1/2" CHWS & CHWR UP CHASE TO MECH RM. 2HN (SEE SHEET M-43)

2 1/2" CHWS & CHWR TO 1HN & 2HN IN TUNNEL CRAWLSPACE

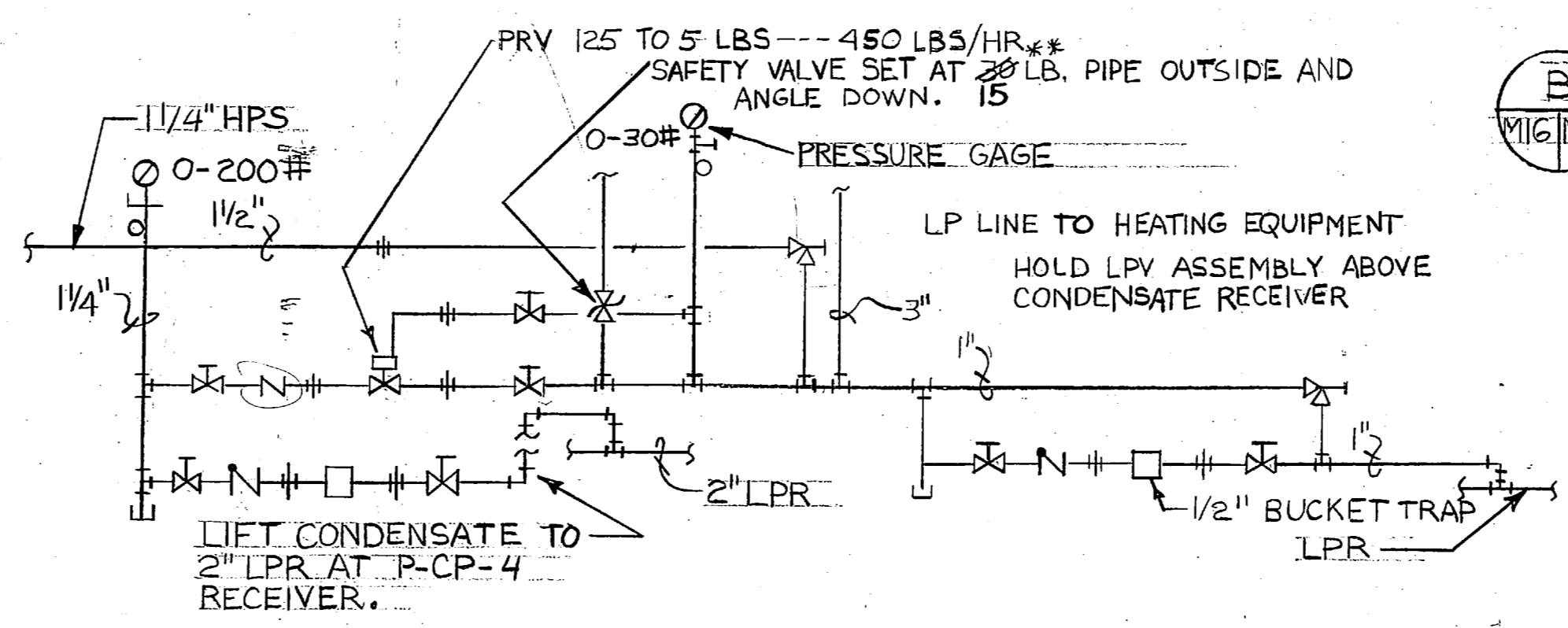
NOTE - 1HN ON THIS SHEET REPLACES 1HN SHOWN ON SHEET M-29.



MECHANICAL PLAN-1H NORTH
1/8" = 1'-0"



B HE-1 & HE-2 PIPING SCHEMATIC
NO SCALE



C PRESSURE REDUCING STATION (PRV-3)
NO SCALE

FERBEE, WALTERS
ARCHITECTURE - LANDSCAPE ARCHITECTURE
PLANNING - INTERIORS
CHARLOTTE, NORTH CAROLINA

DIS. MDE. DR. MDE. I.C.
PROJ. MGR. QED. ICH. ENGAS. FSAI

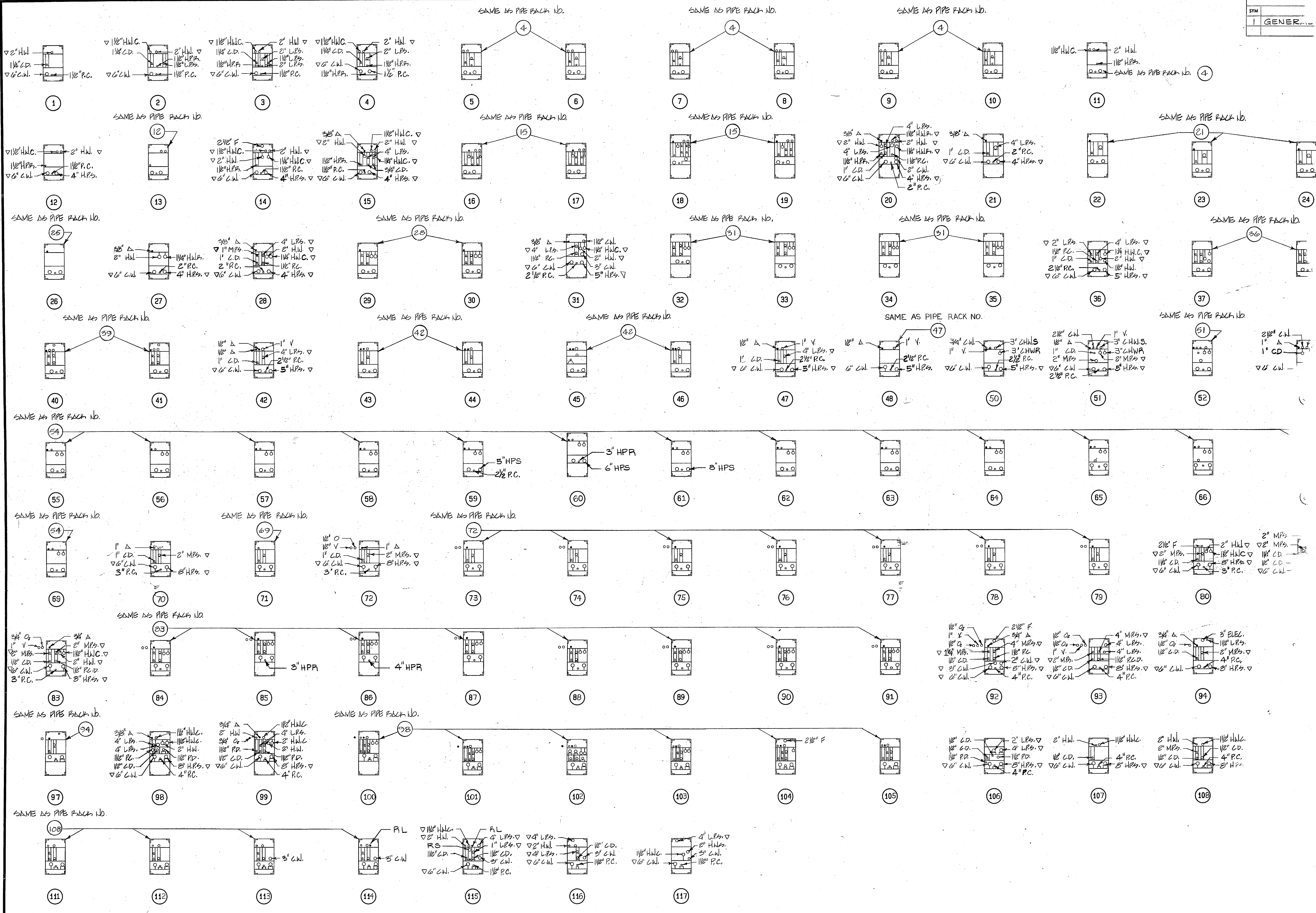
PROJ. MGR. QED. ICH. ENGAS. FSAI
SUBMITTED BY: *John Collins*
FIRM MEMBER

ED. EX. TYPED. RVD. *[Signature]*
NO. 10/17/77 DIR. *[Signature]*
APPROVED DATE

OFFICER IN CHARGE
[Signature]
FOR EFD FOR COMM.

M-18

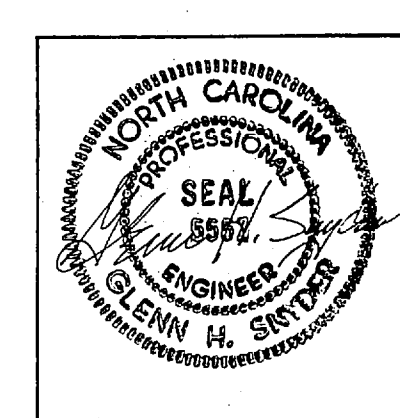
SYM	1	GENER...
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NOTES:

1. ALL PIPE RACKS ARE EXISTING AND ARE TO REMAIN.
2. REFER TO ASBESTOS REMOVAL NOTES ON SHEET M-1.
3. SEE PIPE RACK LOCATIONS ON SHEET M-2.
4. SEE GENERAL NOTES 3, 4, 6 AND 7 ON SHEET M-45.
5. THESE PIPES ARE SHOWN ON THE PLUMBING PLANS.
6. SEE SHEETS P-10 AND P-36.
7. SEE GENERAL NOTES 8, 9 AND 10 ON SHEET M-45.

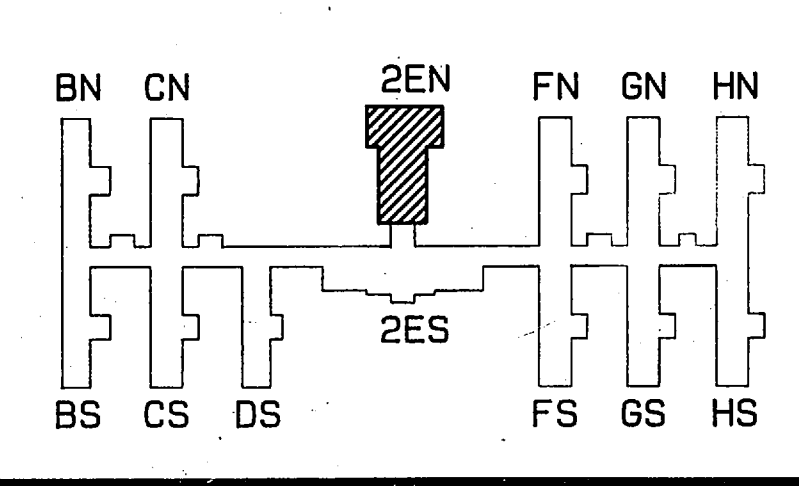
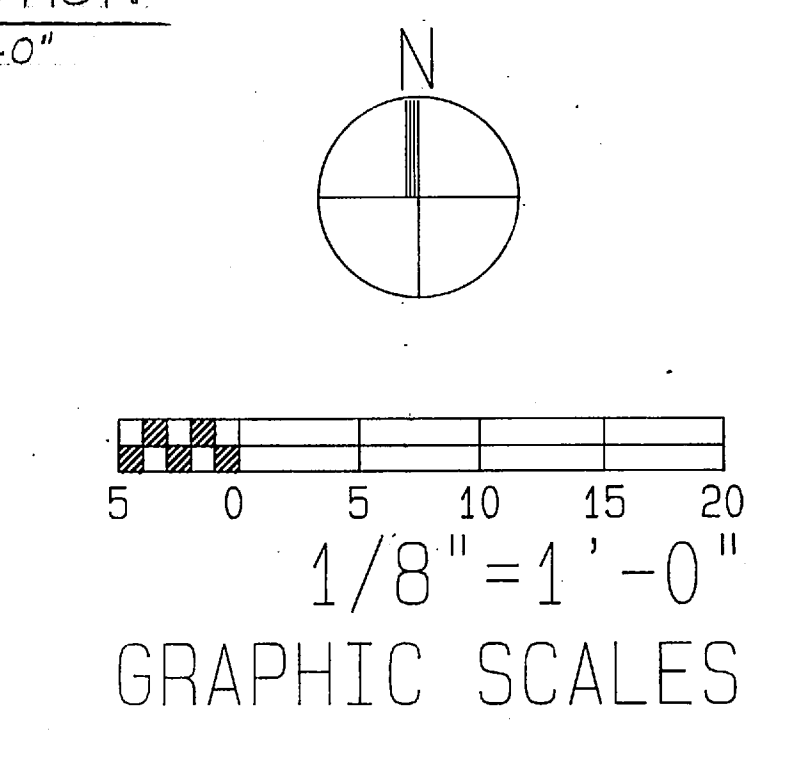
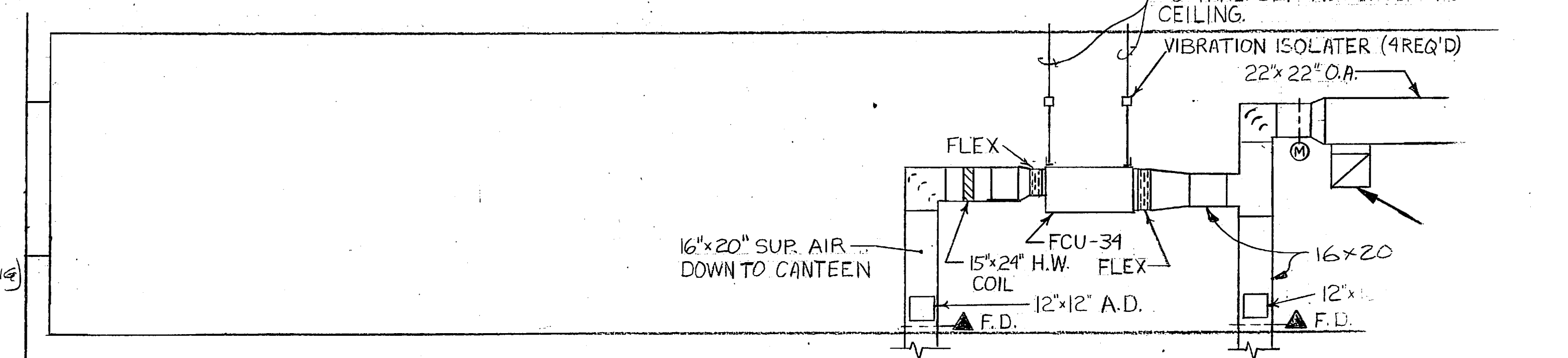
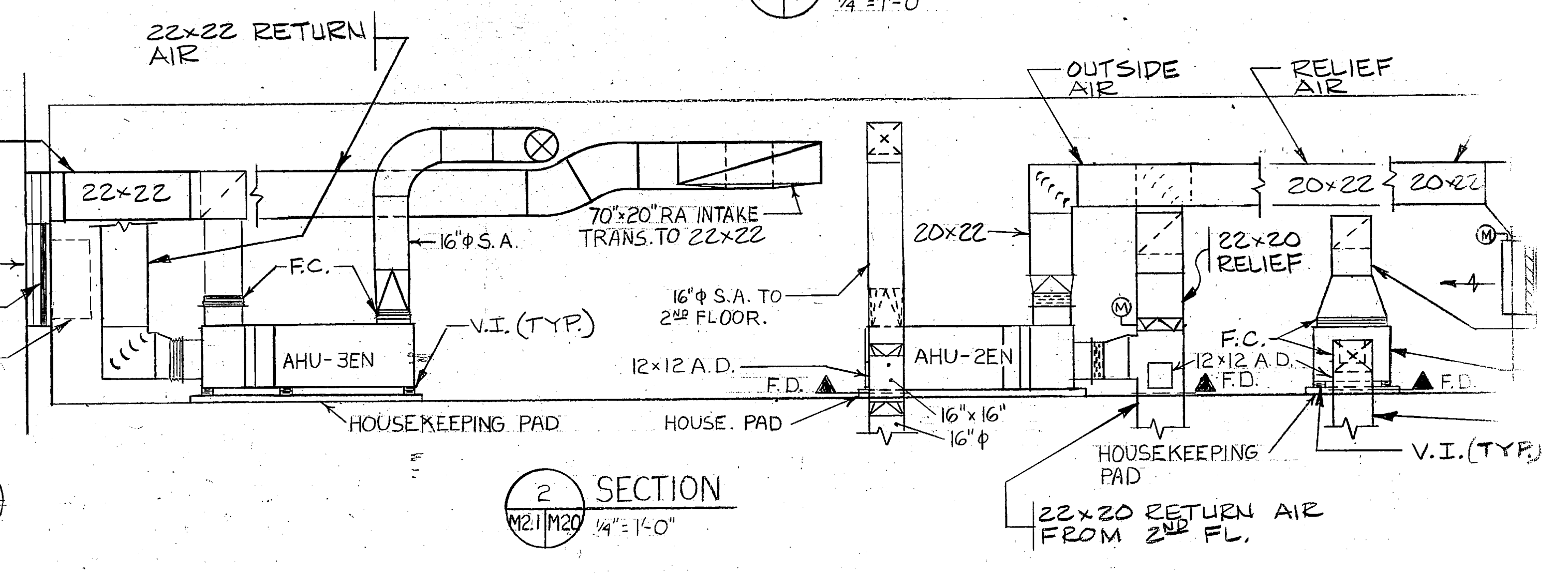
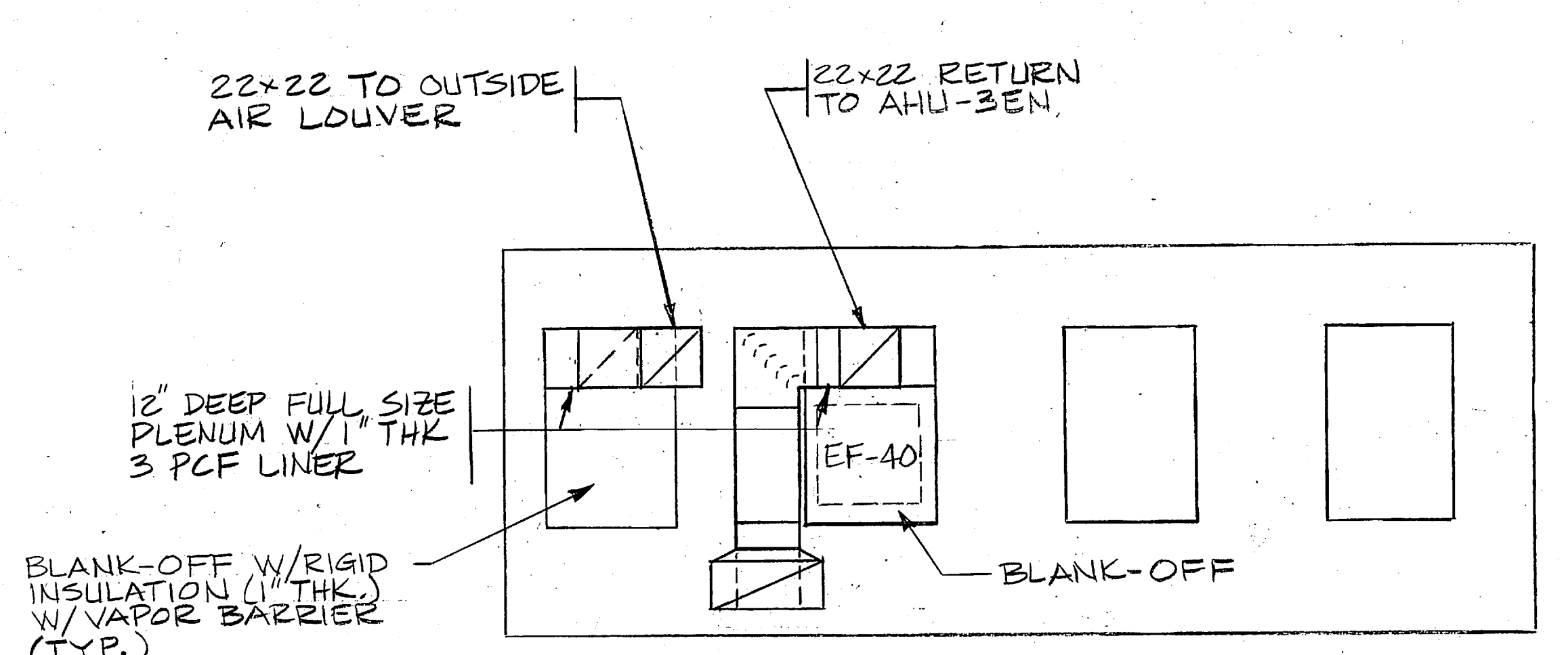
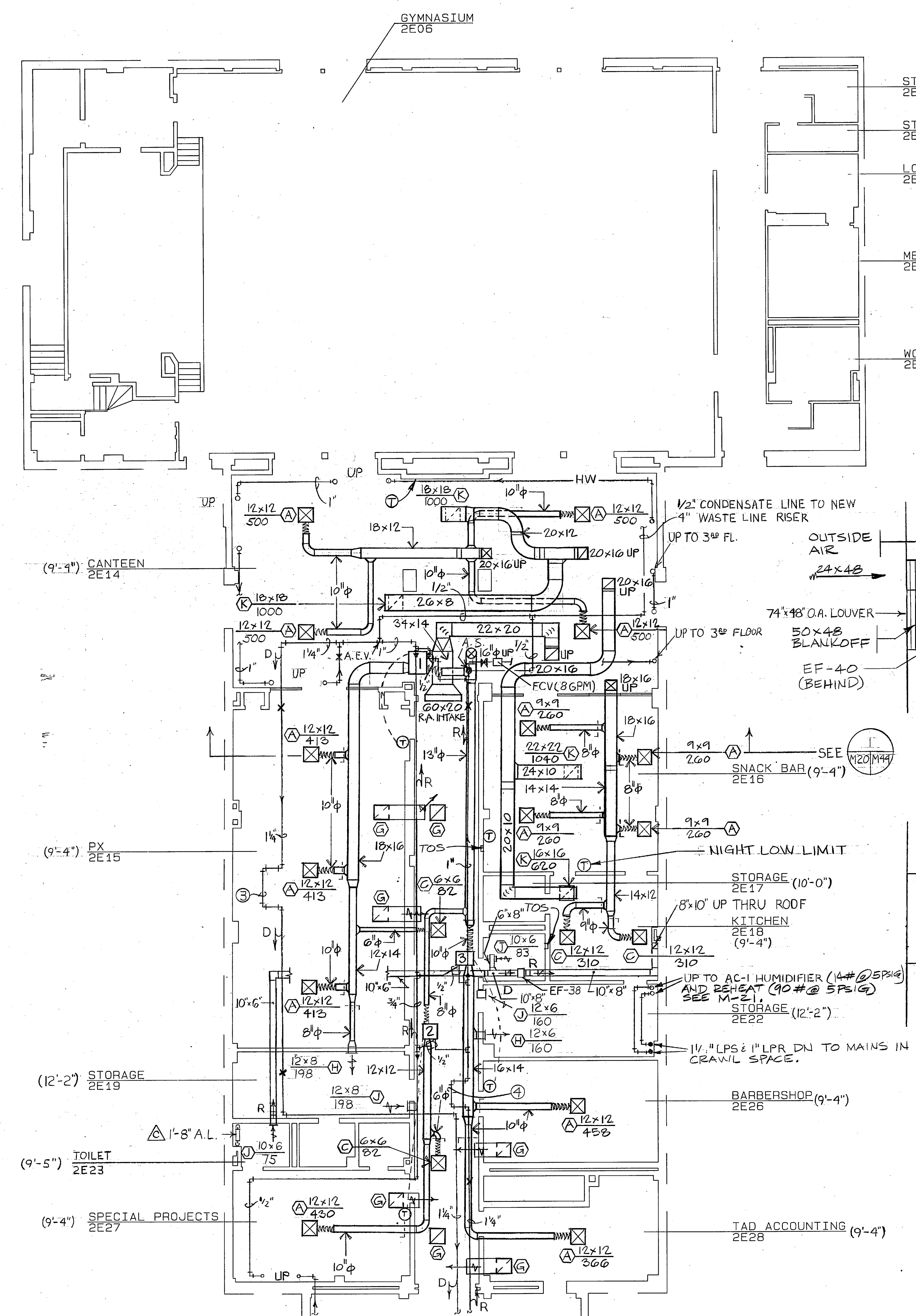
LEGEND			
A	AIR (P)	HWR	HOT WATER RETURN
CD	STEAM CONDENSATE DRAIN	HWS	HOT WATER SUPPLY
CHWR	CHILLED WATER RETURN	LPS	LOW PRESSURE STEAM SUPPLY
CHWS	CHILLED WATER SUPPLY	O2	OXYGEN (P)
CW	COLD WATER (DOMESTIC) (P)	PC	PUMPED CONDENSATE
F	FIRE (P)	RL	REFRIGERANT LIQUID
HPR	HIGH PRESSURE RETURN	RS	REFRIGERANT SUCTION
HPS	HIGH PRESSURE SUPPLY	V	VACUUM (P)
HW	HOT WATER (DOMESTIC) (P)	(P)	SEE NOTE NO. 5 ON SHEET M-51.
HWC	HOT WATER CIRCULATING (DOMESTIC) (P)	∇	ASBESTOS INSULATION TO BE REMOVED



FERREE, WALTERS
 ARCHITECTURE
 100 S. COLLETT ST.
 CHARLOTTE, N.C. 28201

DES. BY: DR. S. W. FERREE
 PROJ. MGR. DR. S. W. FERREE
 SUBMITTED BY: DR. S. W. FERREE
 FIRM MEMBER: DR. S. W. FERREE
 DR. S. W. FERREE
 APPROVED: DR. S. W. FERREE
 OFFICER IN CHARGE
 FOR SFP FOR COM.

SYM	
T	GENERAL REVISION



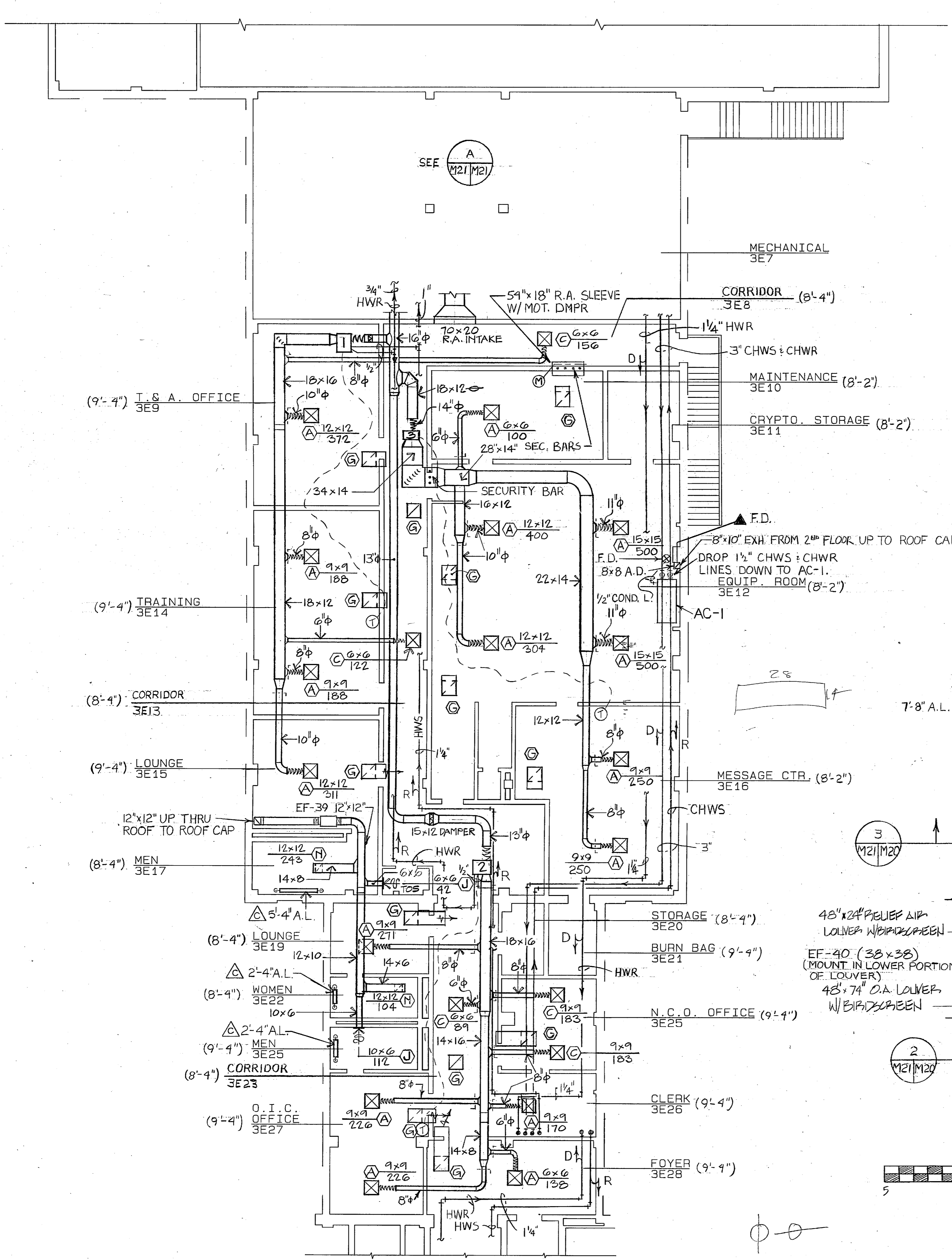
FEREBE, WALTERS ARCHITECTURE P.L.L.C. CHARLOTTE, NC

PROJ. MGR. DR. P. W. FEREBE
DESIGNED BY DR. P. W. FEREBE
DRAWN BY CHARLES S. WALTERS
CHECKED BY CHARLES S. WALTERS
DATE 11/15/00

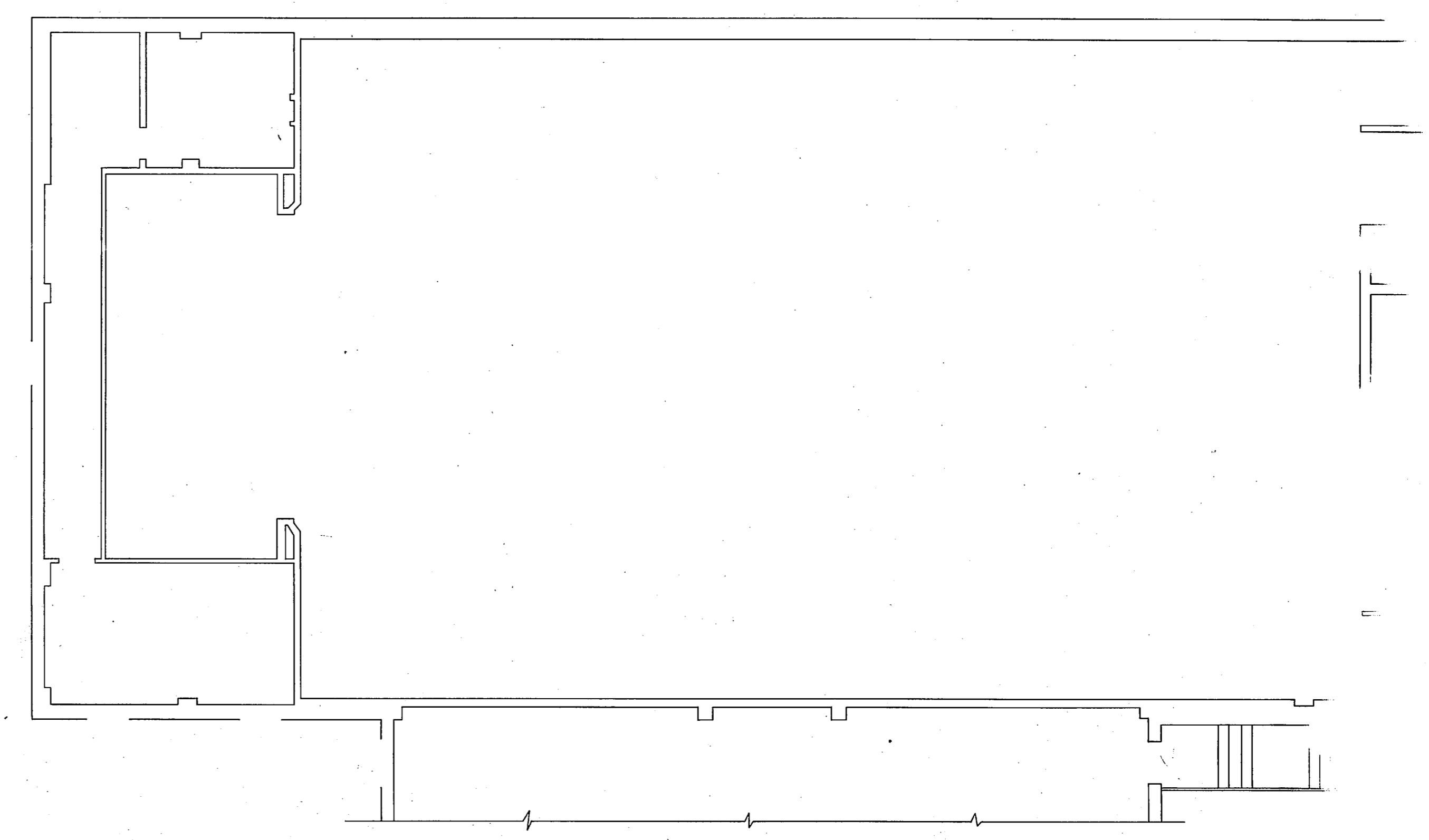
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OFFICER IN CHARGE

FOR EFD FOR CONSTRUCTION

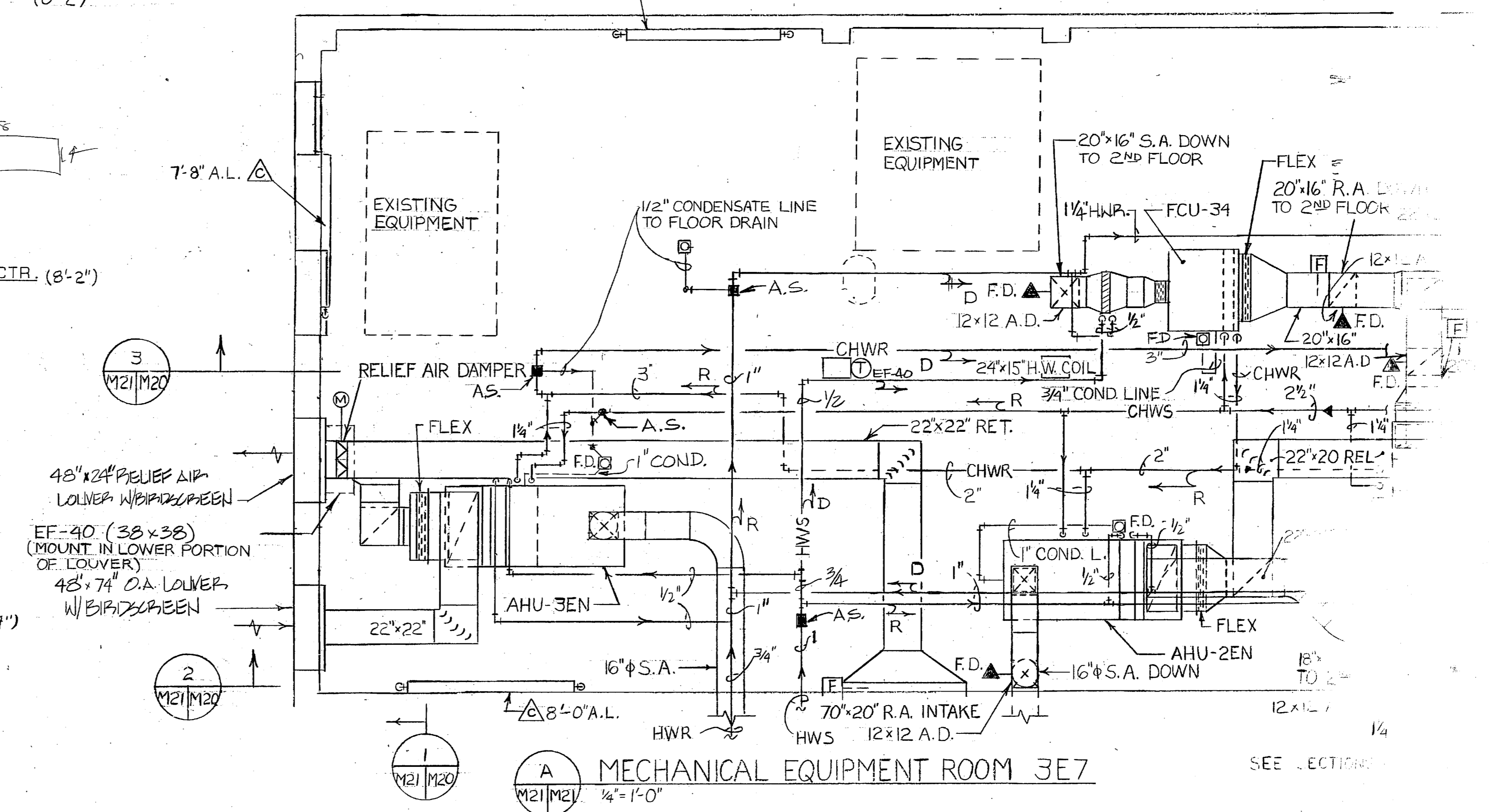




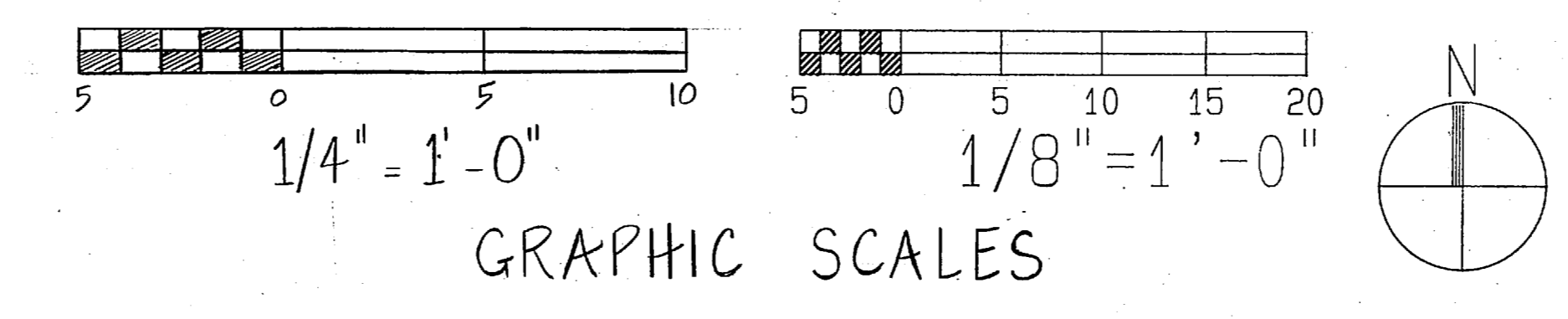
MECHANICAL PLAN-3E NORTH
1/8" = 1'-0"



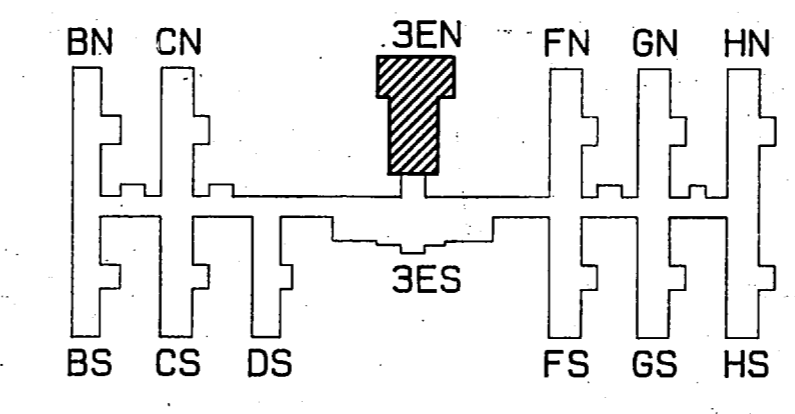
MECHANICAL PLAN-3E NORTH
1/8" = 1'-0"



MECHANICAL EQUIPMENT ROOM 3E7
1/8" = 1'-0"

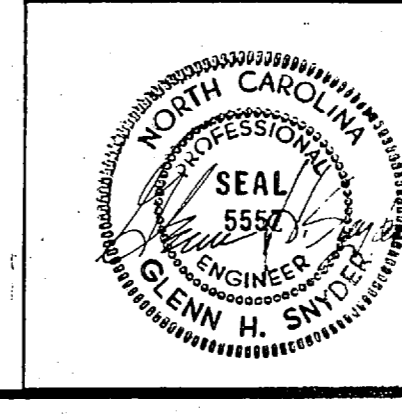


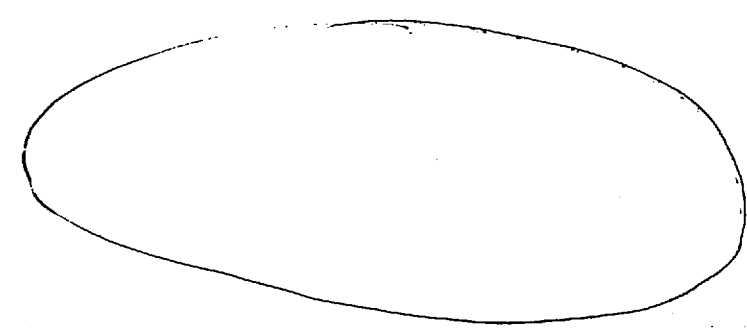
GRAPHIC SCALES



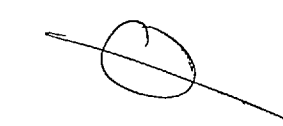
FEREBEE, WALTERS
ARCHITECTURE
PLANNING
CHARLOTTE, N.C.

DIS. M. DE. DR. M. DE. CH.
PROJ. MGR. CH. ENGR.
DESIGNED BY
CHARLES B. WALTERS
FIRM MEMBER
NO. 27,272 RVD.
APPROVED BY
G. L. ENNEN, N. S. W. 547
OFFICER IN CHARGE

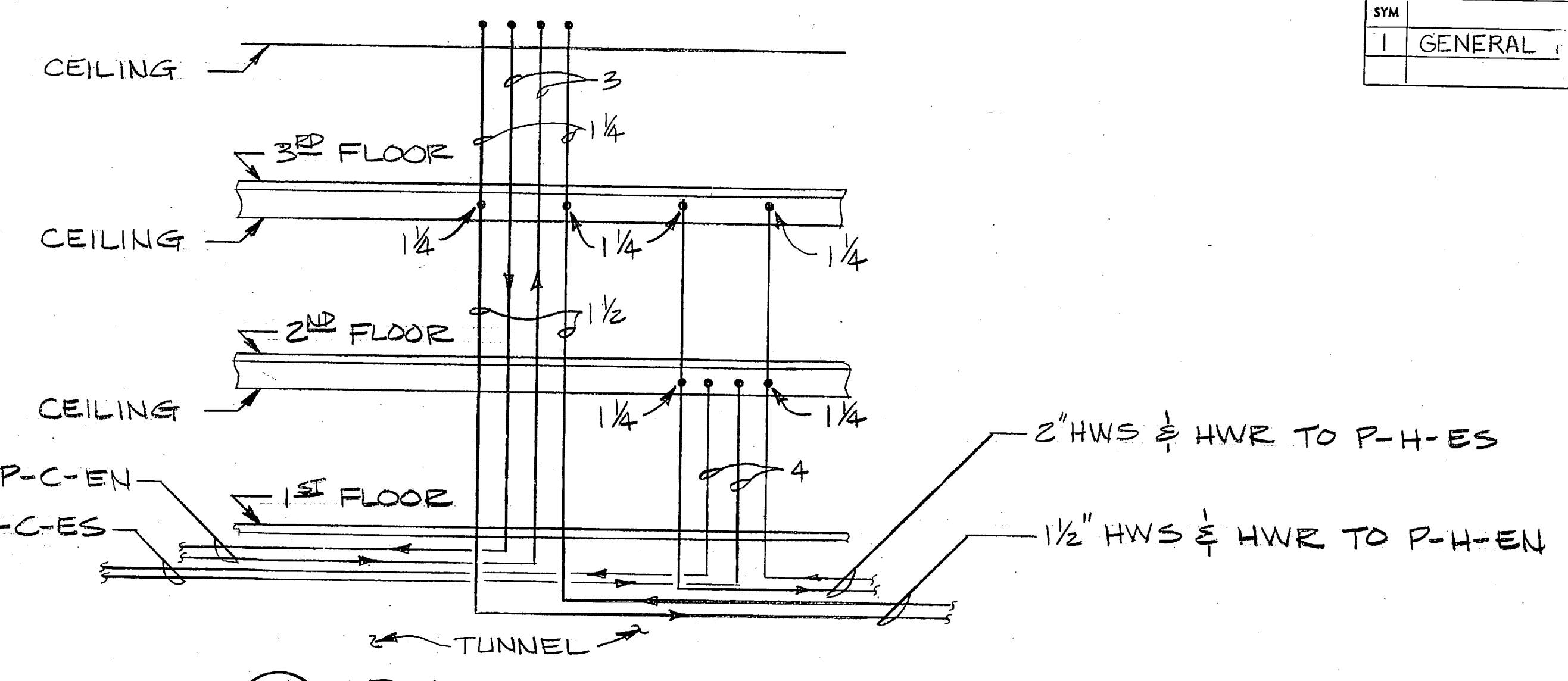




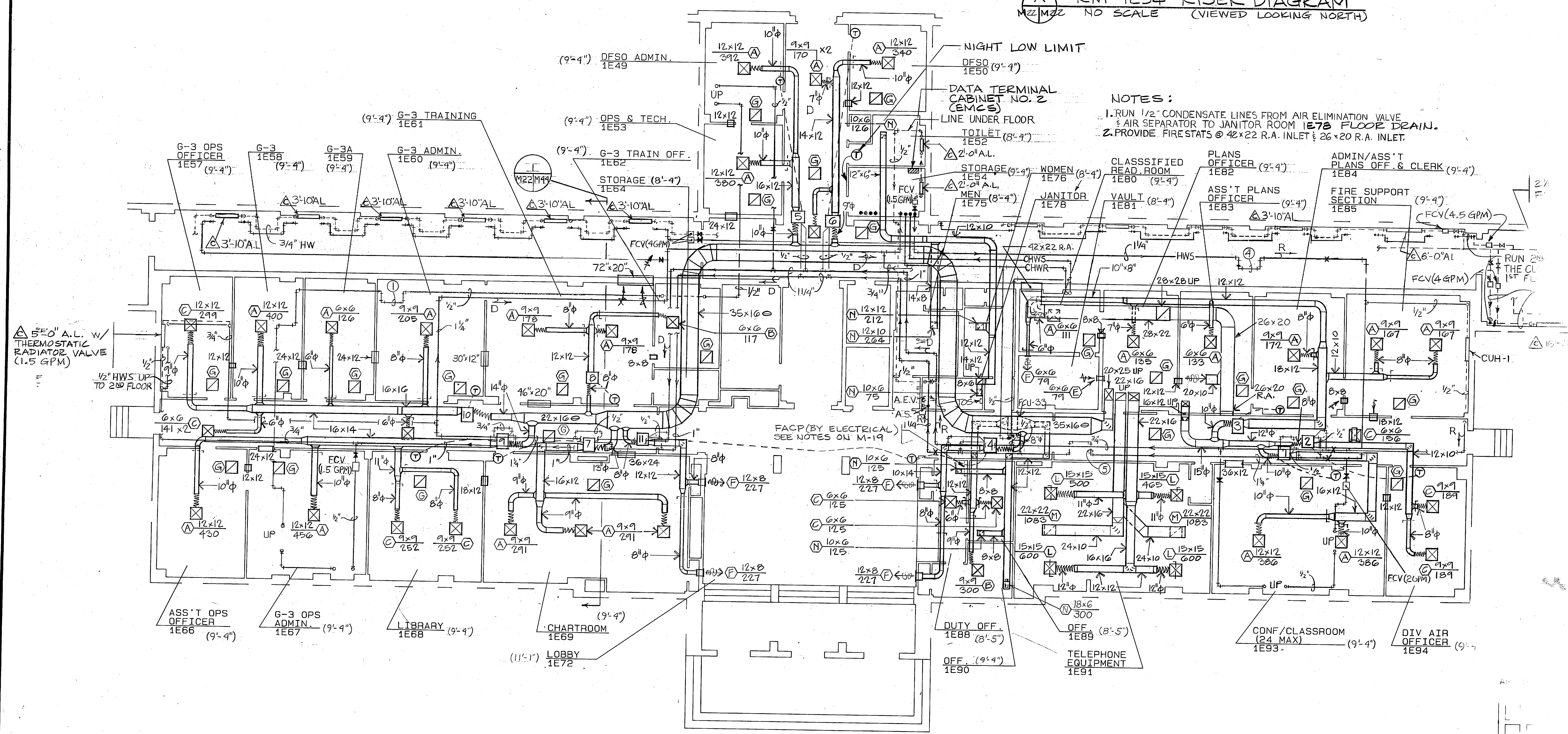
11-12
9-9
2-8



SYM	GENERAL
-----	---------



(A) RM 1E54 RISER DIAGRAM
 NO SCALE (VIEWED LOOKING NORTH)

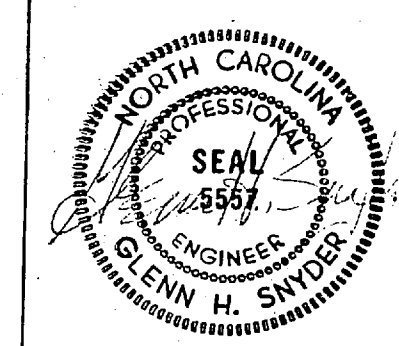


MECHANICAL PLAN-1E SOUTH
 1/8" = 1'-0"

FERREE, WALTERS & ASSOCIATES
 ARCHITECTURE
 PLANNING
 CHARLOTTE NORTH CAROLINA

DES. MDE DR. NLE CHK. RWD
 SUBMITTED BY: *Charles C. ...*
 FIRM MEMBER: *...* PRINCIPAL
 APPROVED: *...* DATE: *...*
 OFFICER IN CHARGE: *...*

FOR LTD. FOR COMMENT



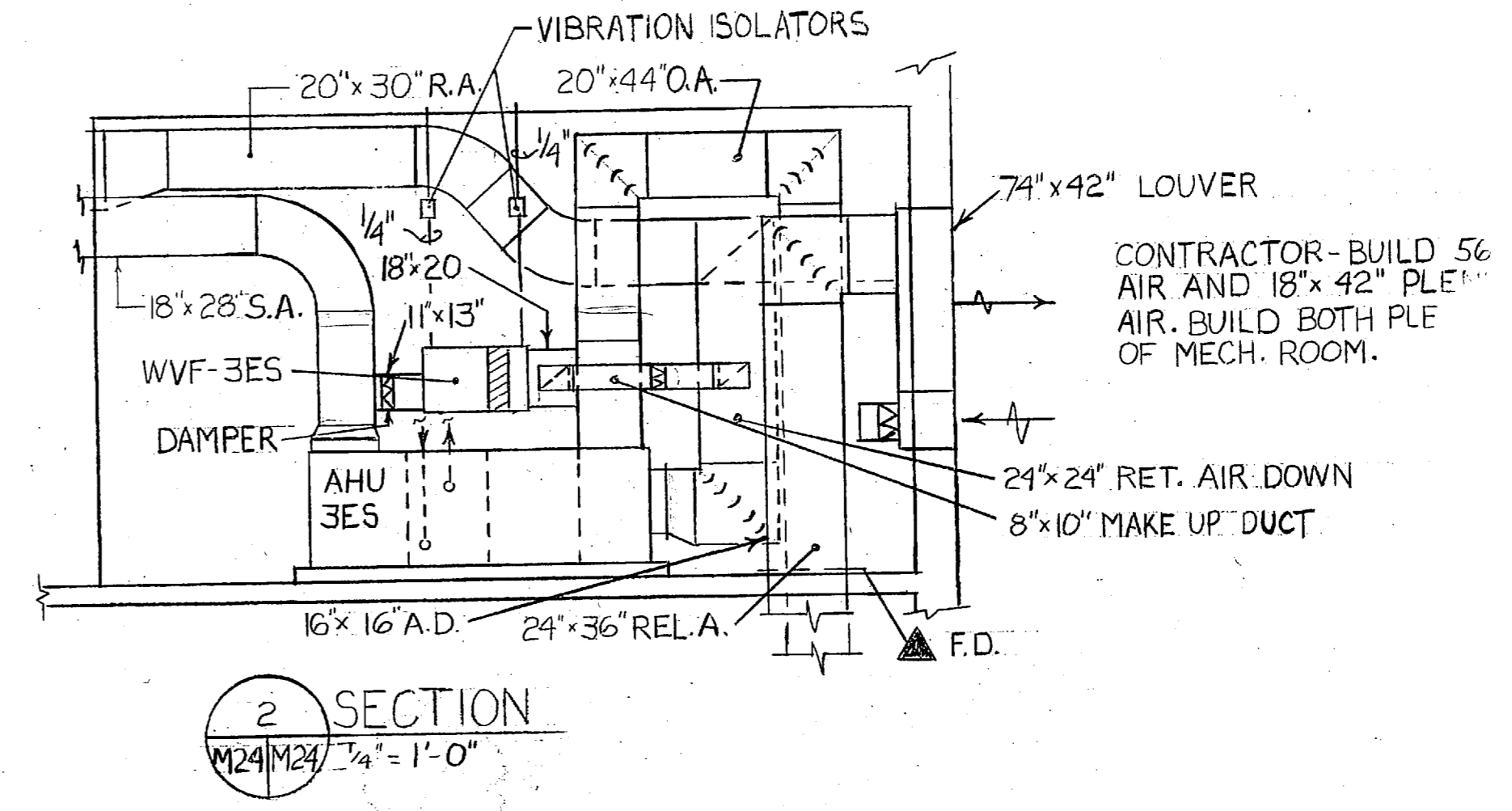
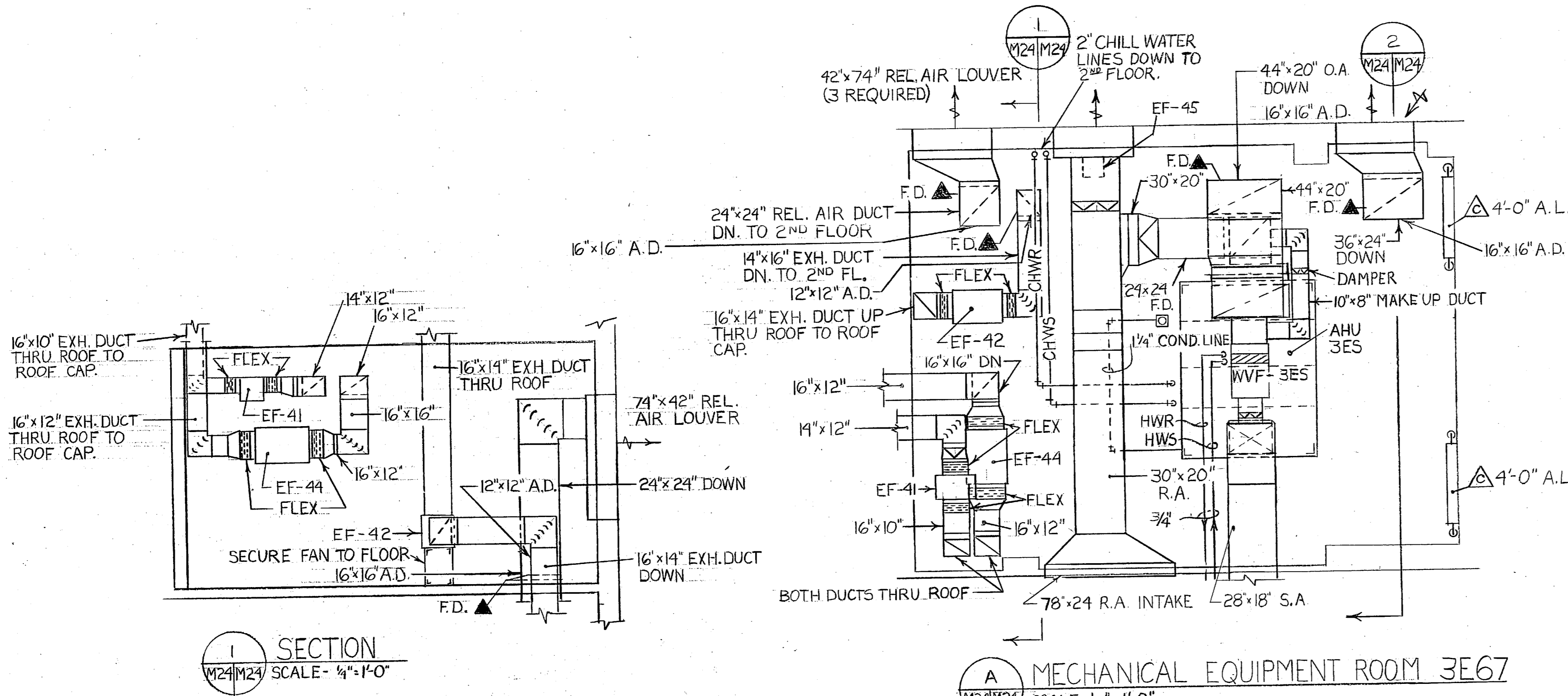
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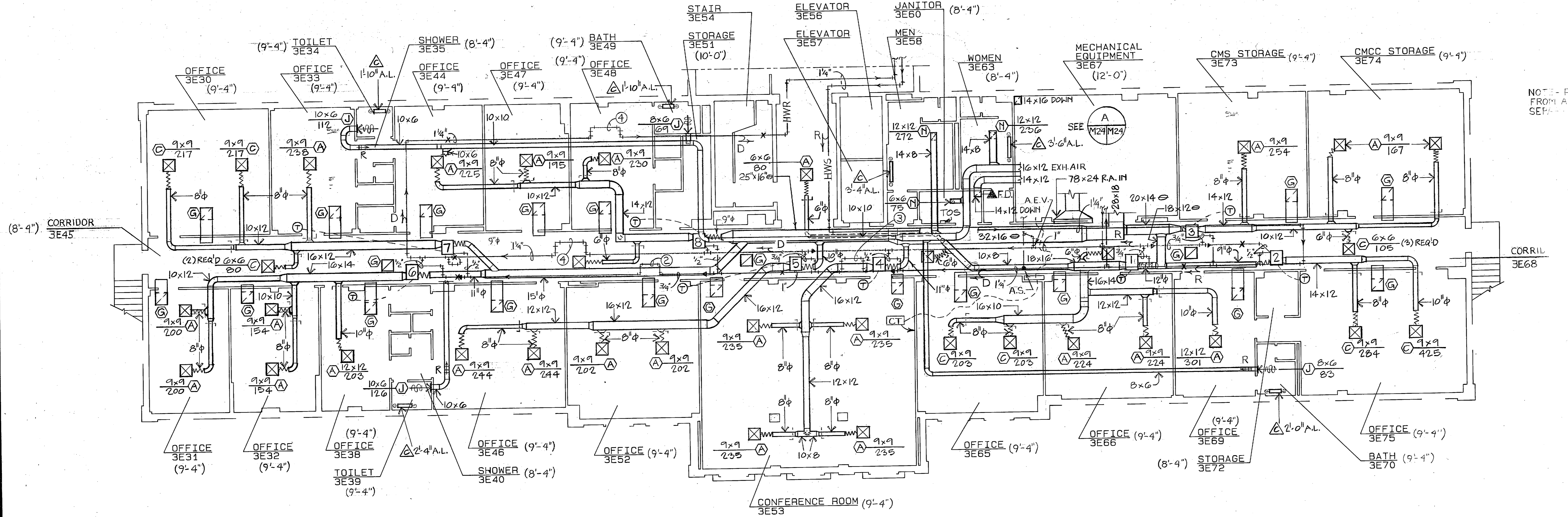
SYM	GENERAL
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SECTION 1
SCALE - 1/4\"/>

MECHANICAL EQUIPMENT ROOM 3E67
SCALE - 1/4\"/>

SECTION 2
SCALE - 1/4\"/>



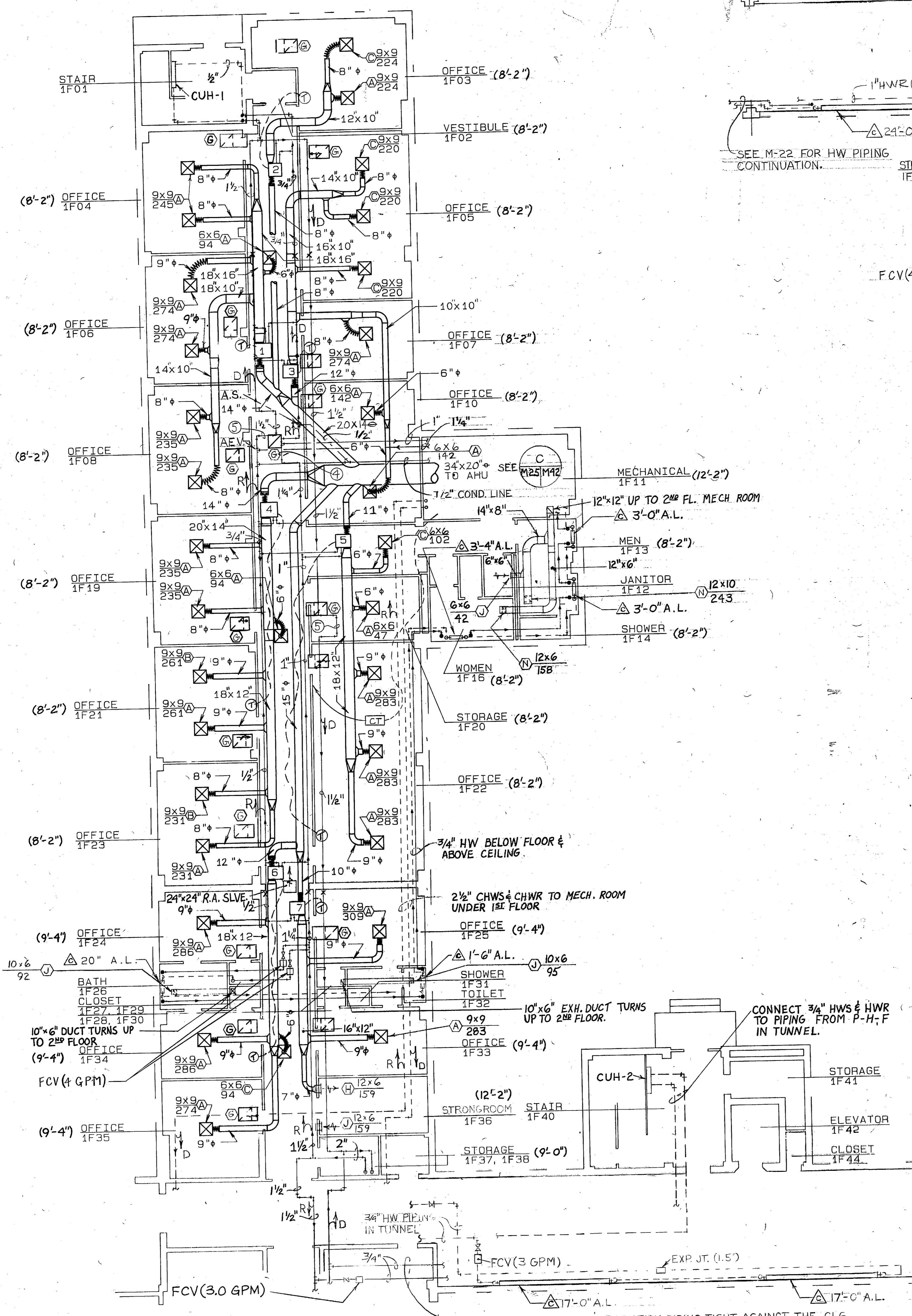
MECHANICAL PLAN-3E SOUTH
1/8\"/>

NOTE - R FROM A SEPA

M-24

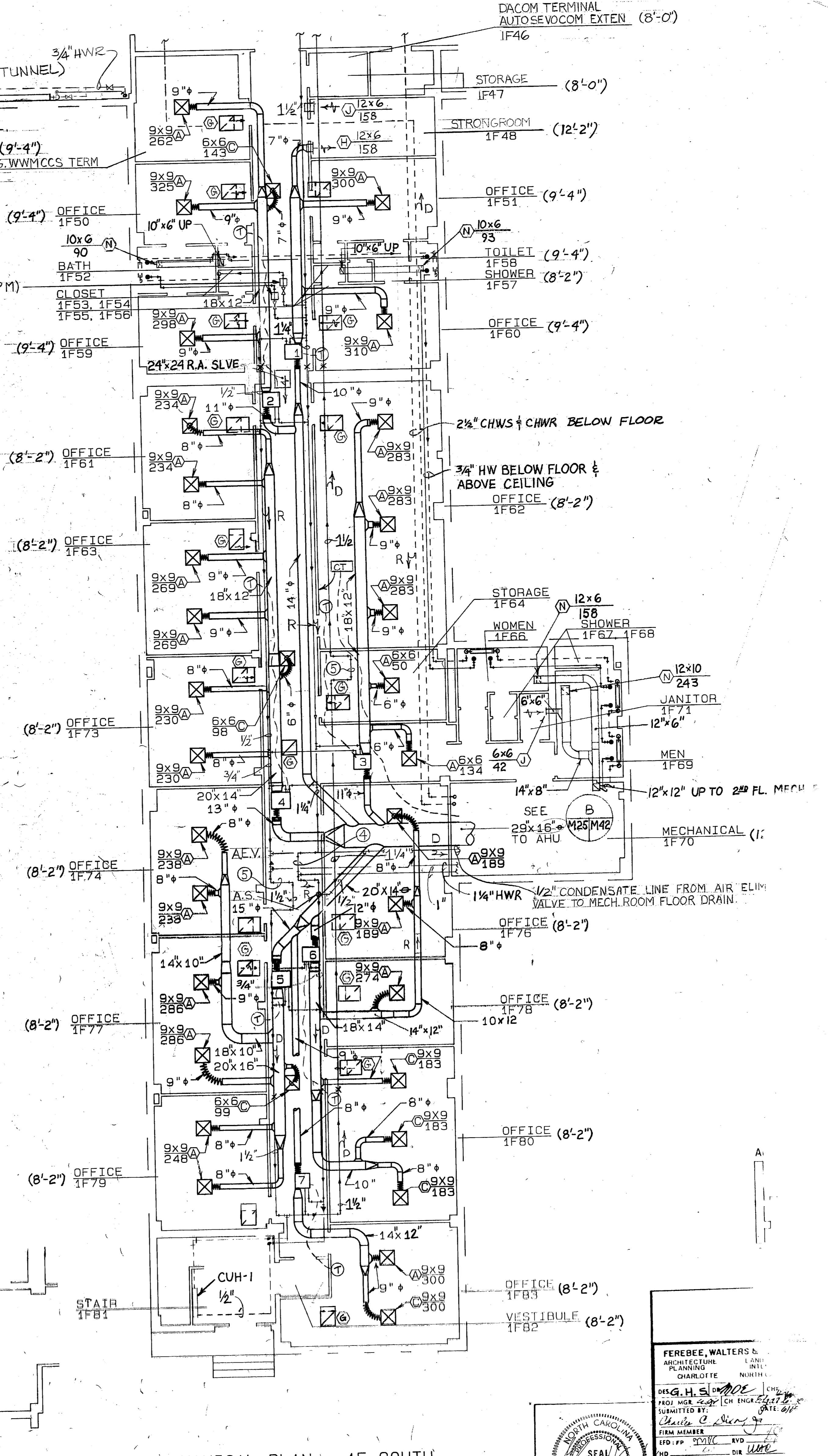
FEREBEE, WALTERS ARCHITECTURE PLANNING CHARLOTTE		DATE: 11/15/83	PROJECT: 82-470
DIS: [Signature]	DR: [Signature]	CHK: [Signature]	DATE: 11/15/83
PROJ. MGR: [Signature]		ENGR: [Signature]	DATE: 11/15/83
DESIGNED BY: [Signature]		DATE: 11/15/83	
FIRM MEMBER		DATE: 11/15/83	
NO. 1111	DIR: [Signature]	DATE: 11/15/83	
APPROVED: [Signature]	DATE: 11/15/83	OFFICER IN CHARGE	
APPROVED: [Signature]	DATE: 11/15/83		
FOR STD. FOR COMMANDER			

SYM GENERAL REV



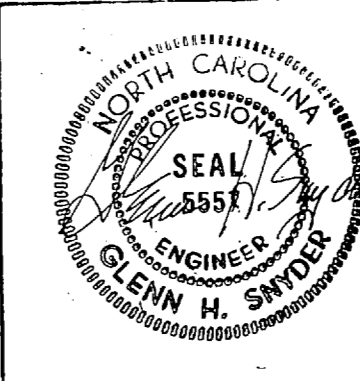
MECHANICAL PLAN - 1F NORTH
1/8"=1'-0"

SEE M-22 FOR HW PIPING CONTINUATION.
STRONG ROOM CCS TERM 1F45



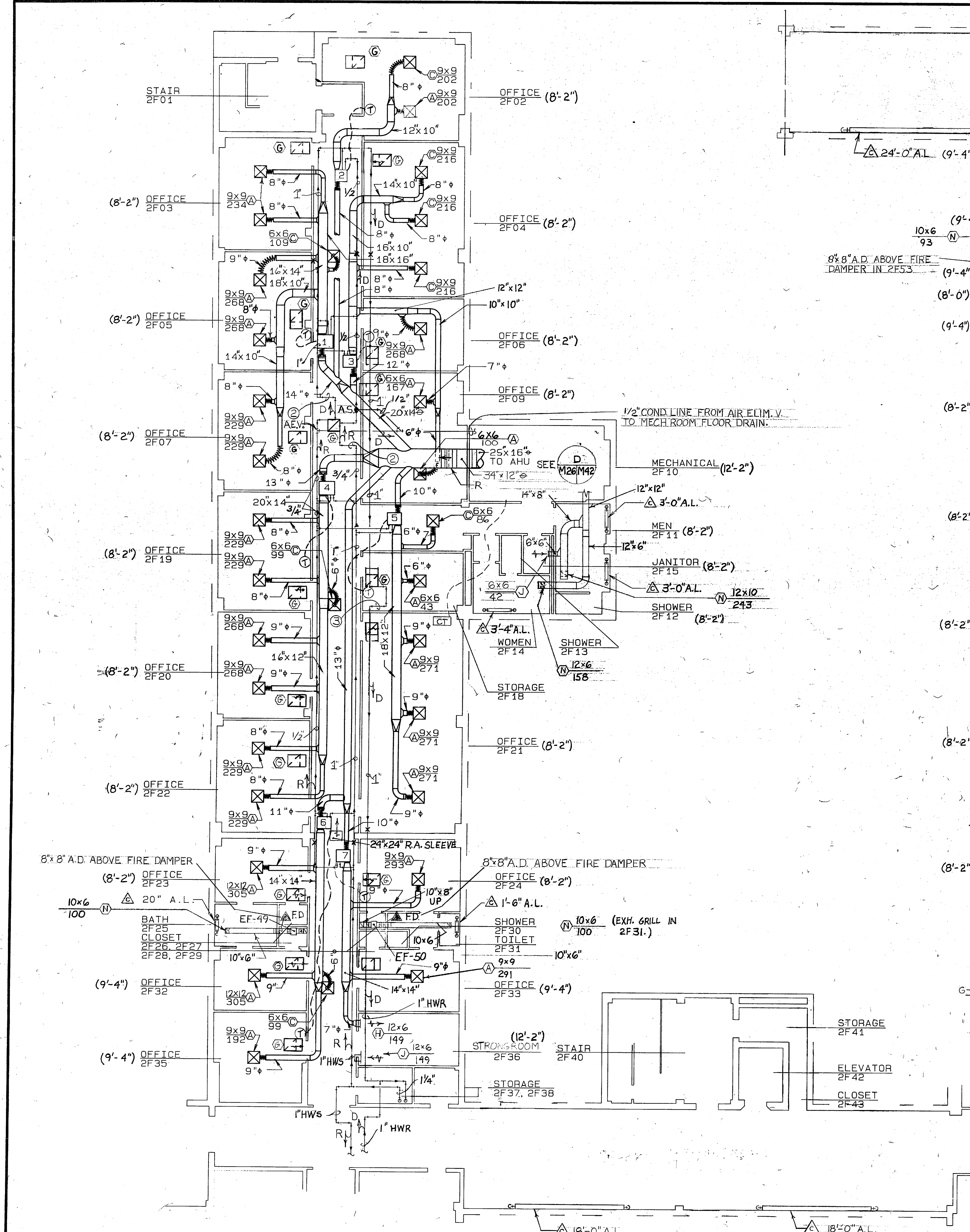
MECHANICAL PLAN - 1F SOUTH
1/8"=1'-0"

FEREBEE, WALTERS & ASSOCIATES
ARCHITECTS
PLANNING
CHARLOTTE, N.C.
DESIGNED BY
PROJECT MANAGER
SUBMITTED BY
DATE
APPROVED
OFFICER IN CHARGE
DATE
FOR LEG FOR COMMANDER, etc.

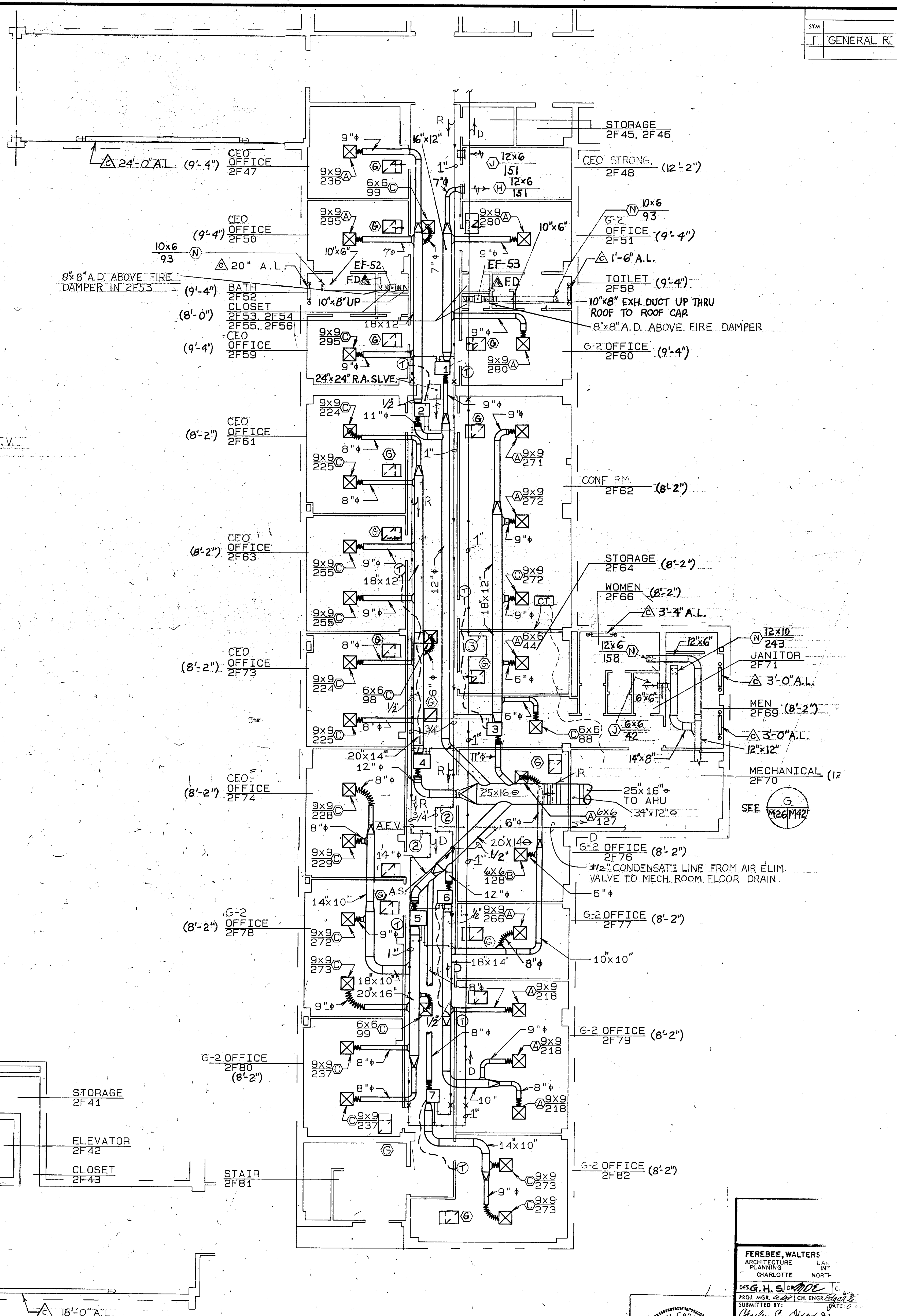




SYM
GENERAL R.



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



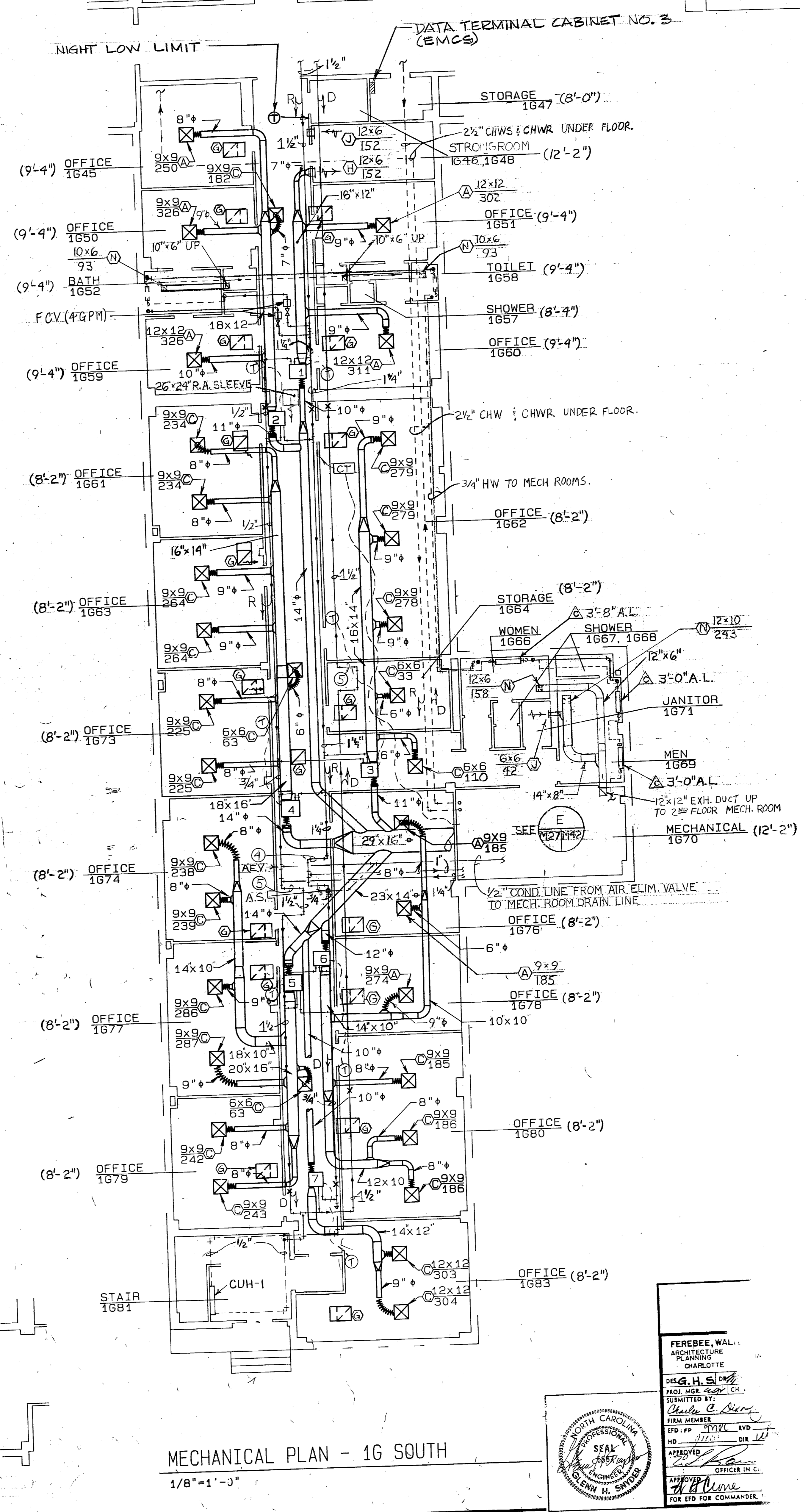
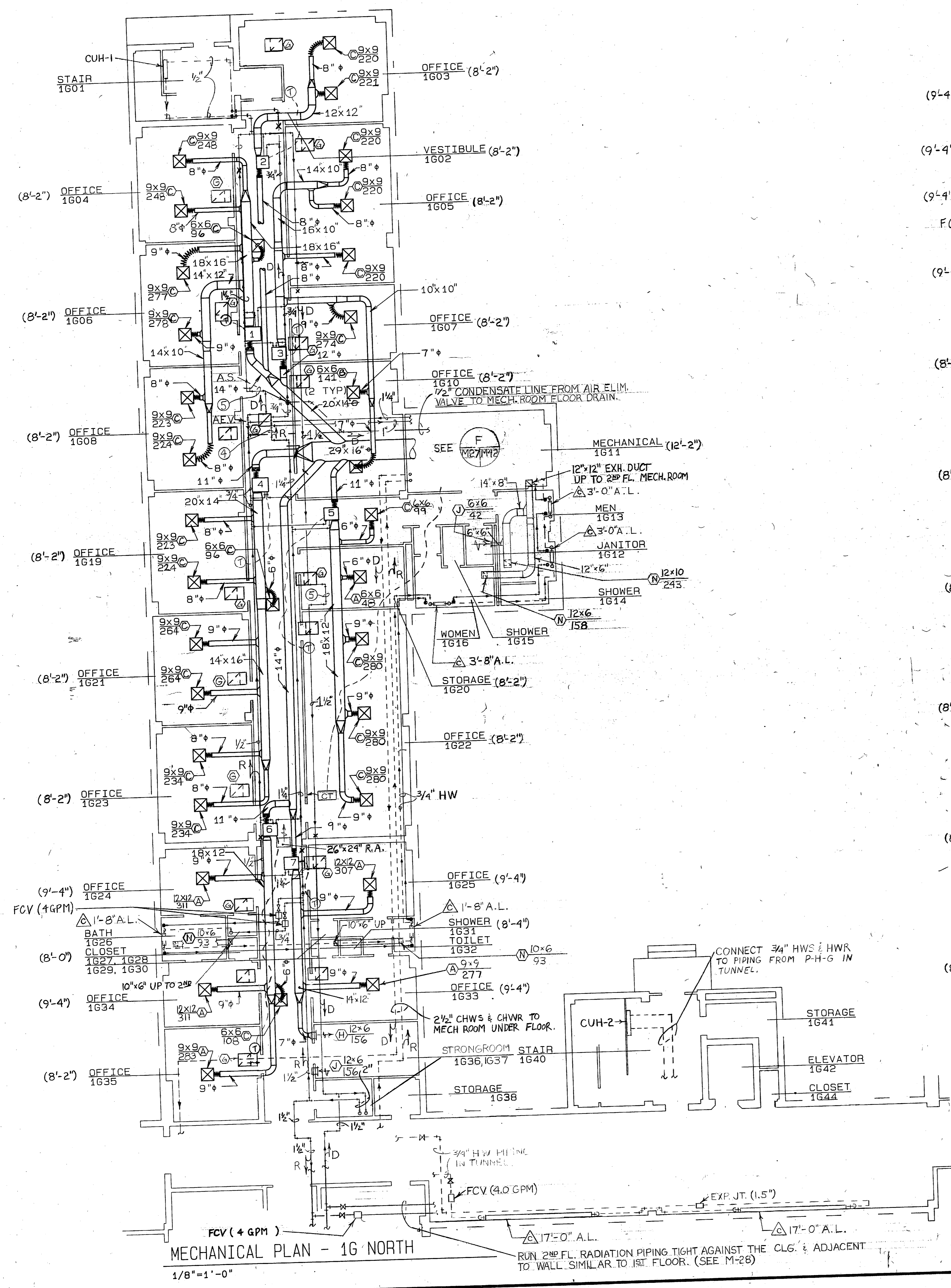
MECHANICAL PLAN - 2F SOUTH
1/8"=1'-0"

FERBEE, WALTERS
ARCHITECTURE
PLANNING
CHARLOTTE NORTH

DESIGNED BY: H. S. ...
SUBMITTED BY: ...
DATE: ...

APPROVED: ...
OFFICE IN CHARGE: ...

FOR INFO FOR CONTRACTOR, ...

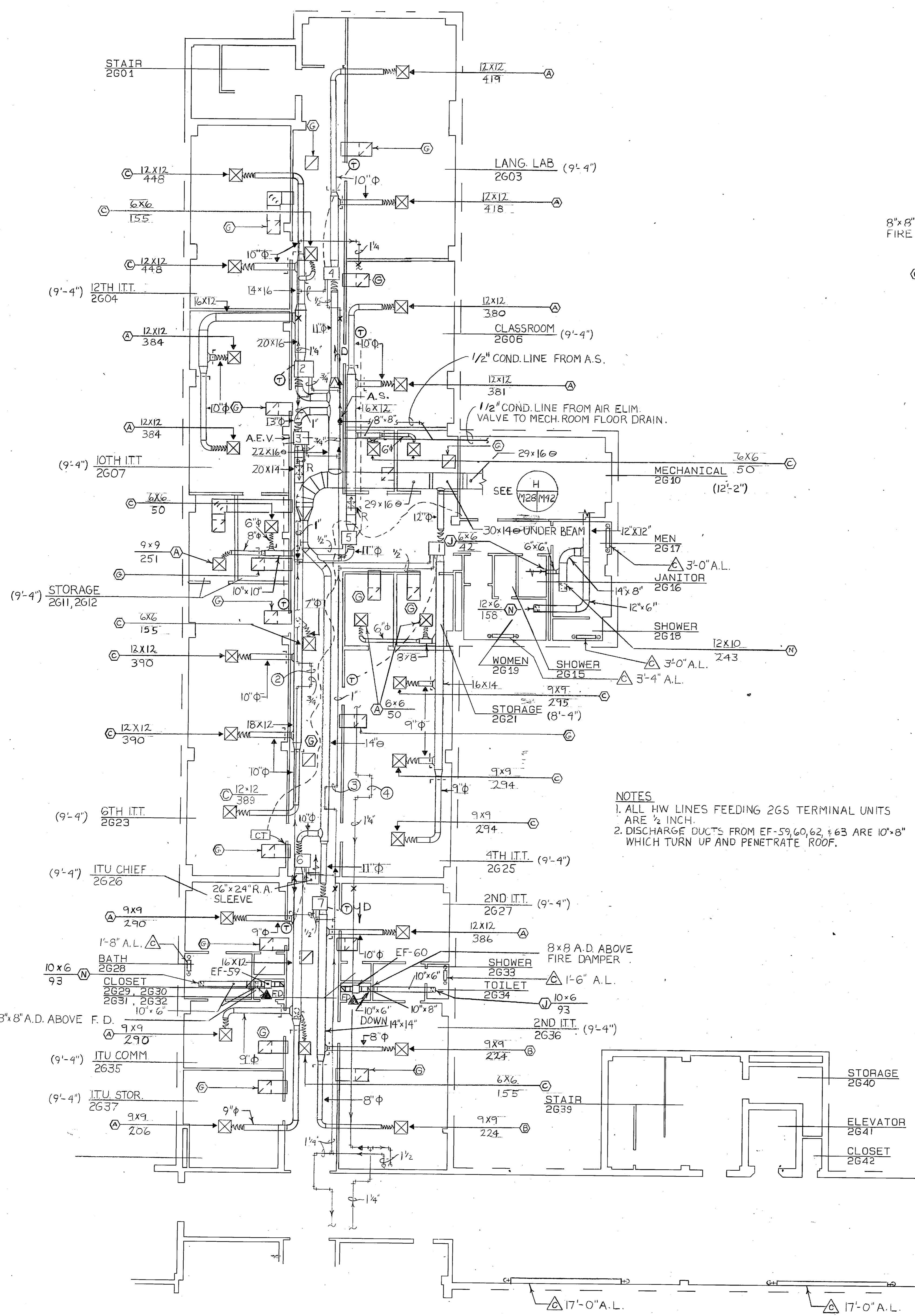


FEREBEE WALL
ARCHITECTURE
PLANNING
CHARLOTTE

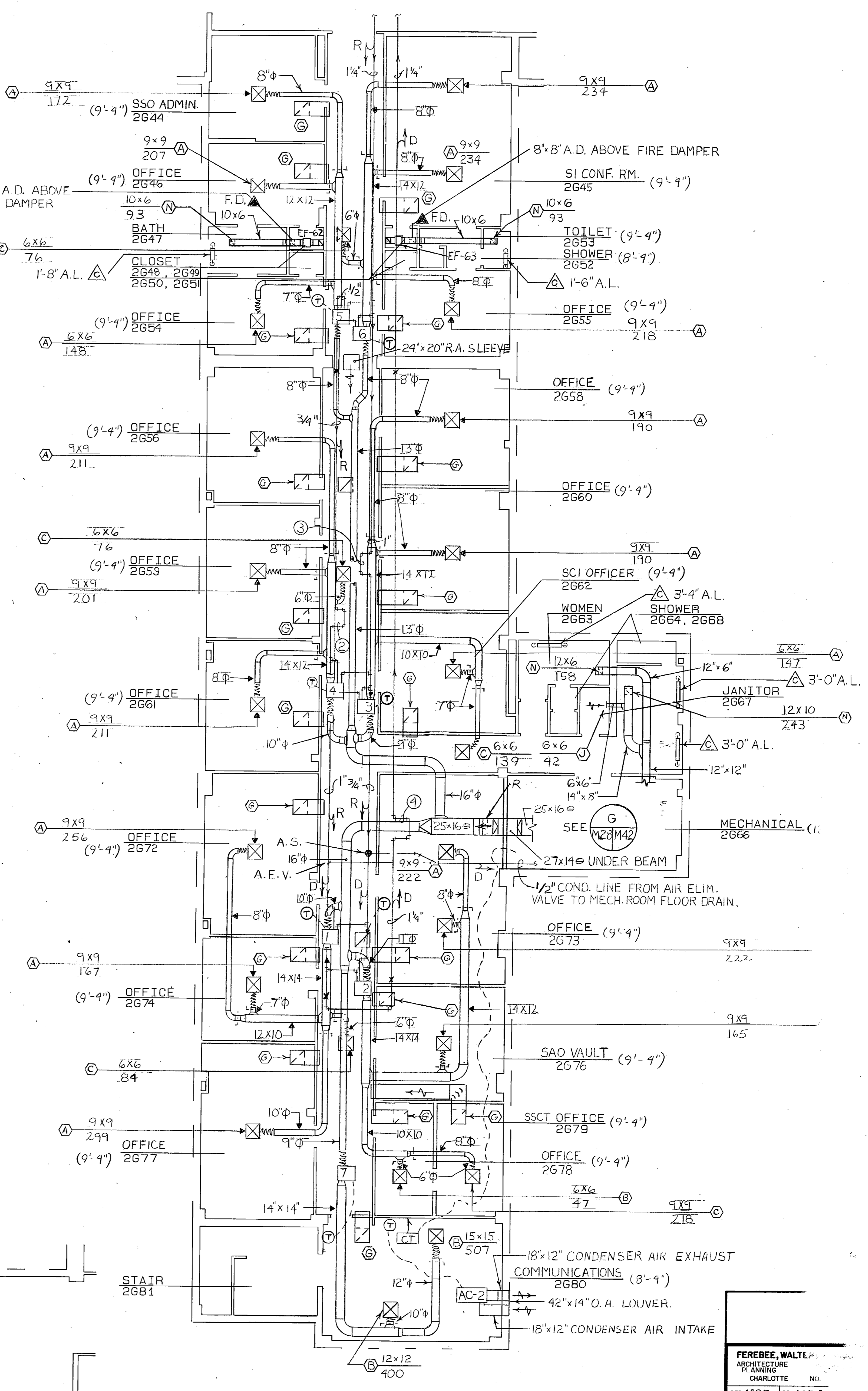
DESIGNER: H. S. WALL
PROJ. MGR.: [Signature]
SUBMITTED BY: [Signature]
FIRM MEMBER: [Signature]
ED. I.P. [Signature] 1/10/77
NO. [Signature] OR [Signature]
APPROVED: [Signature]
OFFICER IN CHARGE: [Signature]
FOR ITO FOR COMMANDER

MECHANICAL PLAN - 1G SOUTH
1/8" = 1'-0"

SYM	
1	GENERAL R



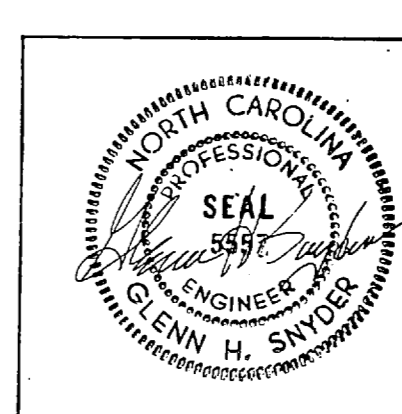
MECHANICAL PLAN - 26 NORTH
1/8" = 1'-0"



MECHANICAL PLAN - 26 SOUTH
1/8" = 1'-0"

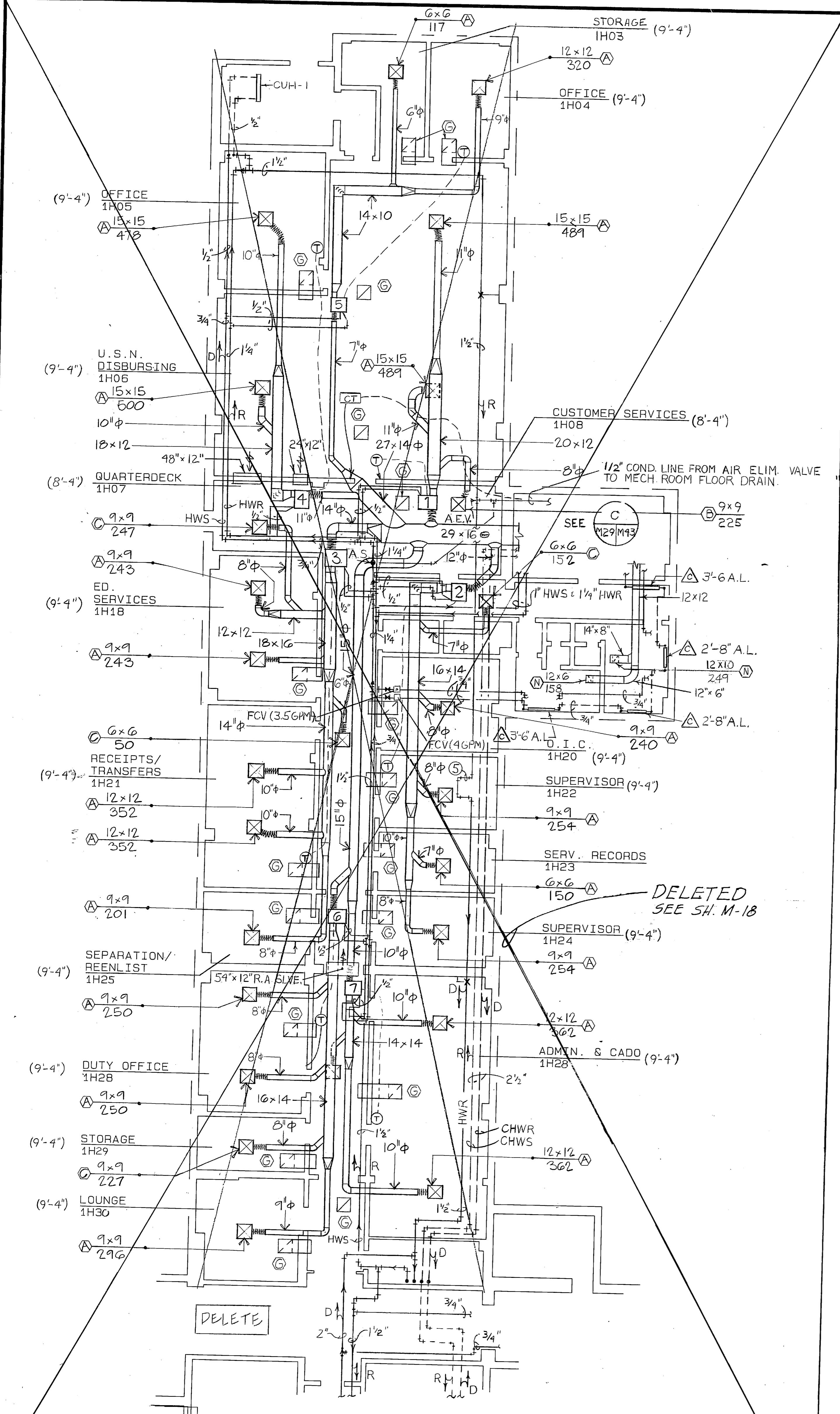
NOTES
1. ALL HW LINES FEEDING 26S TERMINAL UNITS ARE 1/2" INCH.
2. DISCHARGE DUCTS FROM EF-59, 60, 62 & 63 ARE 10" x 8" WHICH TURN UP AND PENETRATE ROOF.

FEREBEE, WALTER
ARCHITECTURE
PLANNING
CHARLOTTE, N.C.
DESIGNED BY: WALTER FEREBEE
DRAWN BY: CHARLOTTE FEREBEE
CHECKED BY: CHARLOTTE FEREBEE
DATE: 11/11/68
FOR STD FOR COMMANDER, NAVY

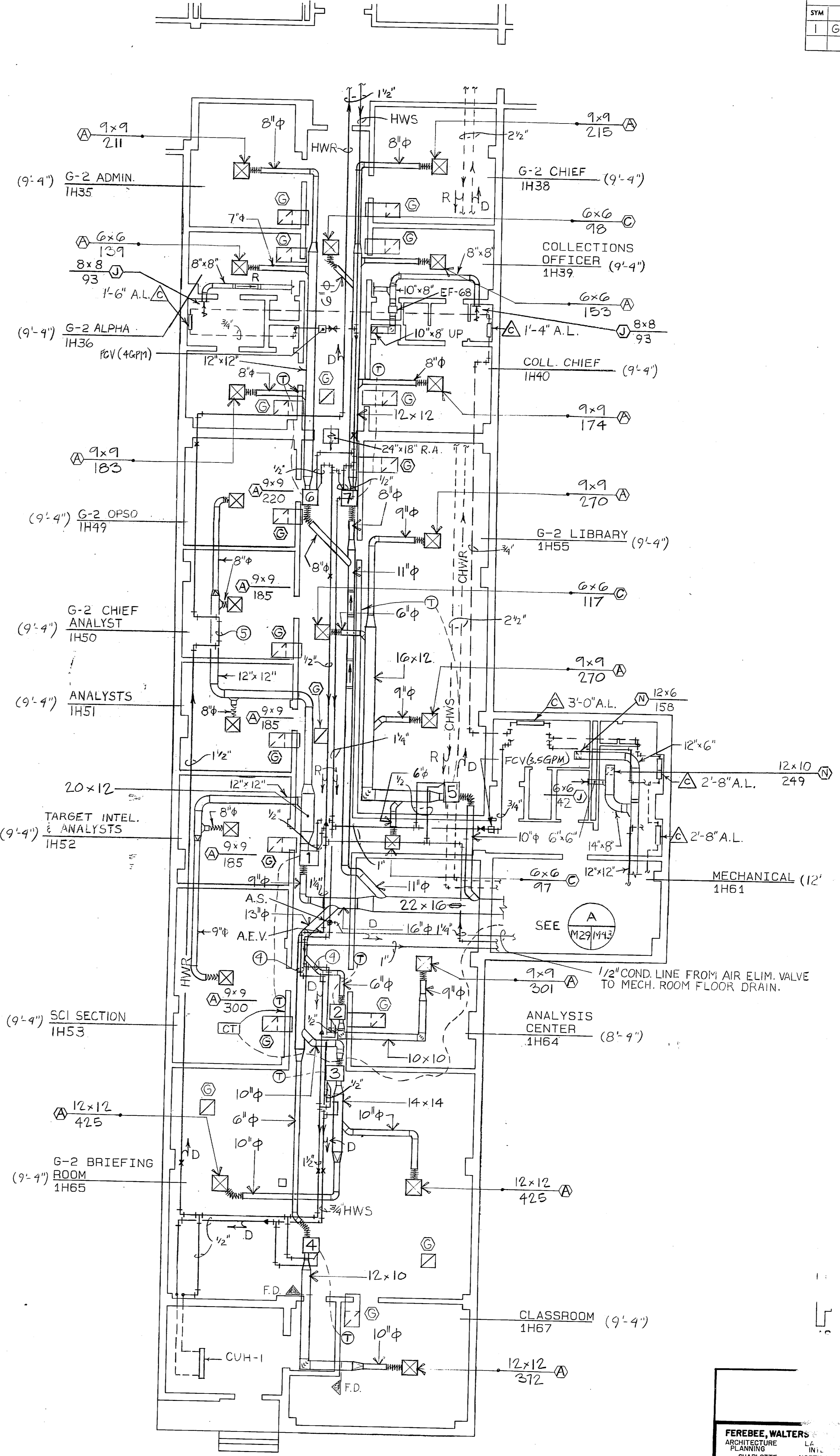




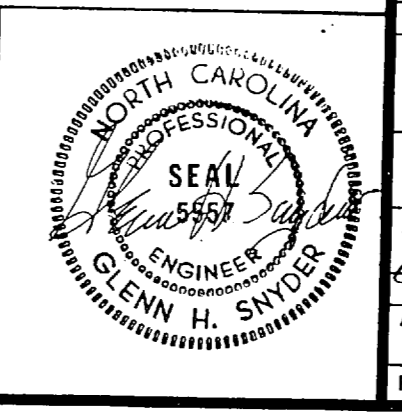
SYM	1	GENERAL REV...
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MECHANICAL PLAN-1H NORTH
1/8"=1'-0"

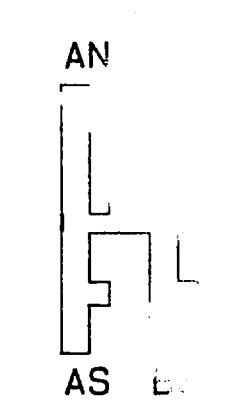
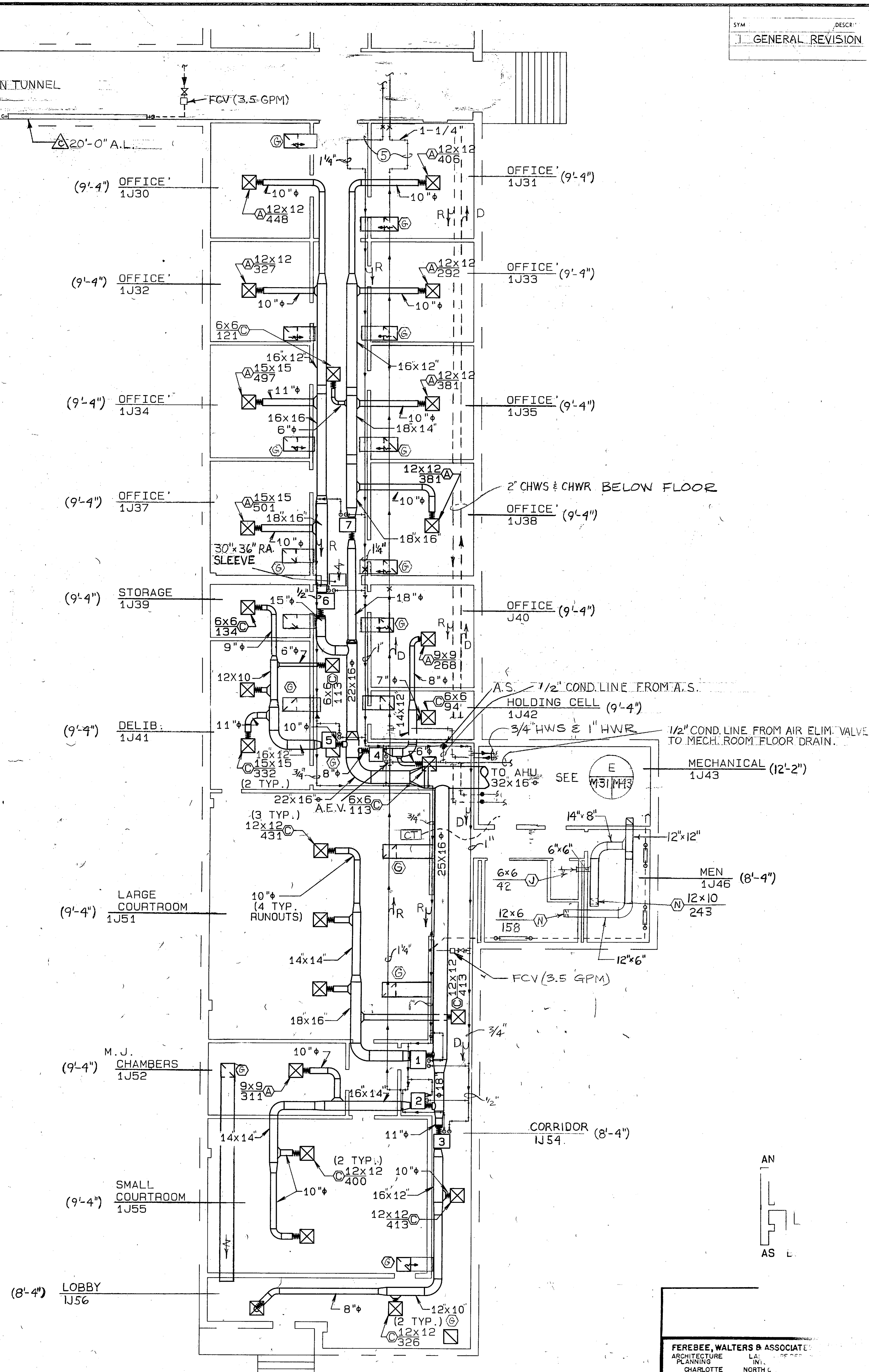
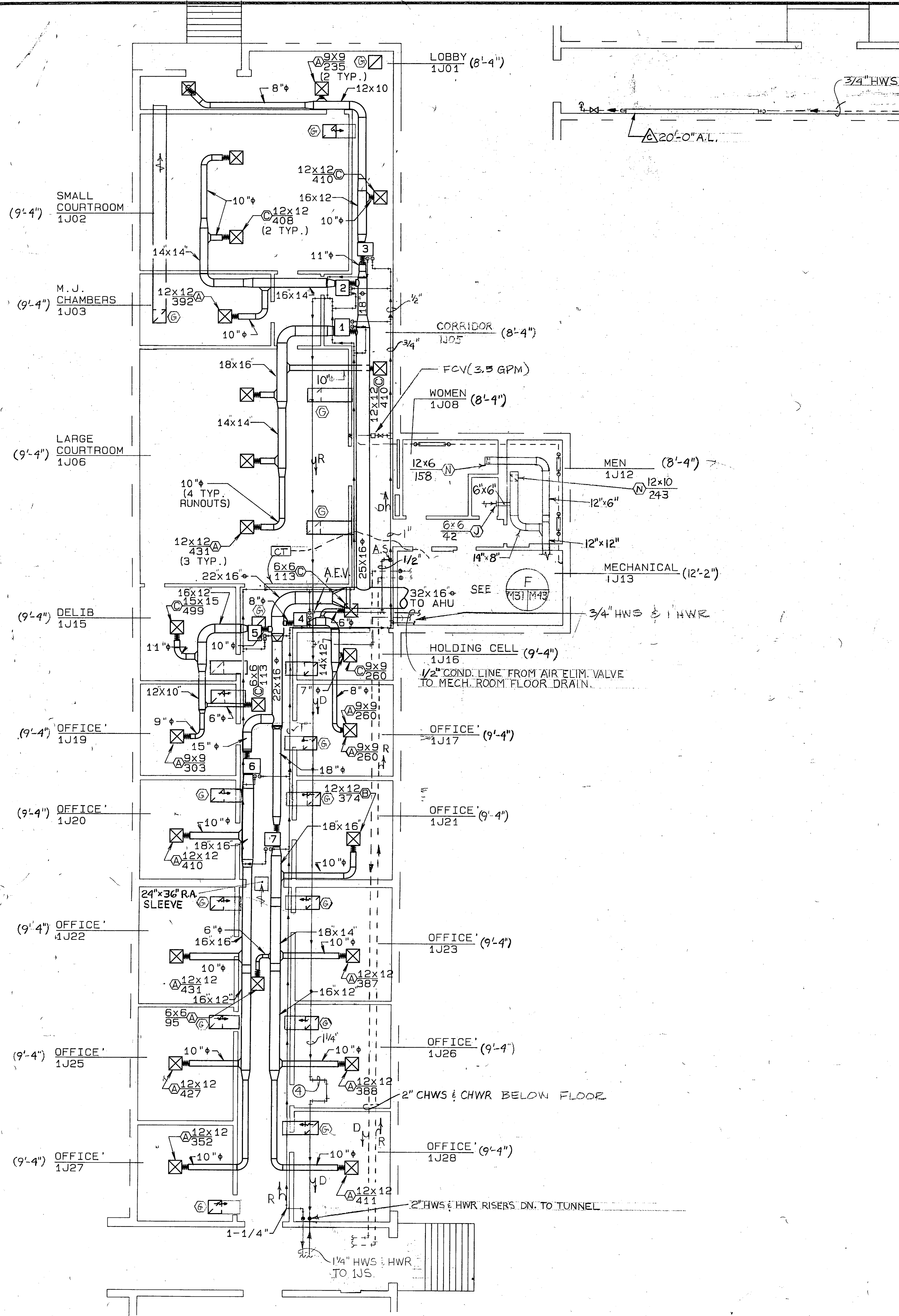


MECHANICAL PLAN-1H SOUTH
1/8"=1'-0"



FERABEE, WALTERS
ARCHITECTS
PLANNING
CHARLOTTE NORTH C.
SE. MADE 10K MADE
PROJ. NO. 504 ICH ENDS
SUBMITTED BY: *Barbara C. O'Connell*
DATE: *1/11/80*
FED. PROJ. NO. 2012 AVO
NO. 711 DIR 100
APPROVED: *[Signature]*
OFFICER IN CHARGE
FOR ETO FOR COMMANDER

SEE M-18



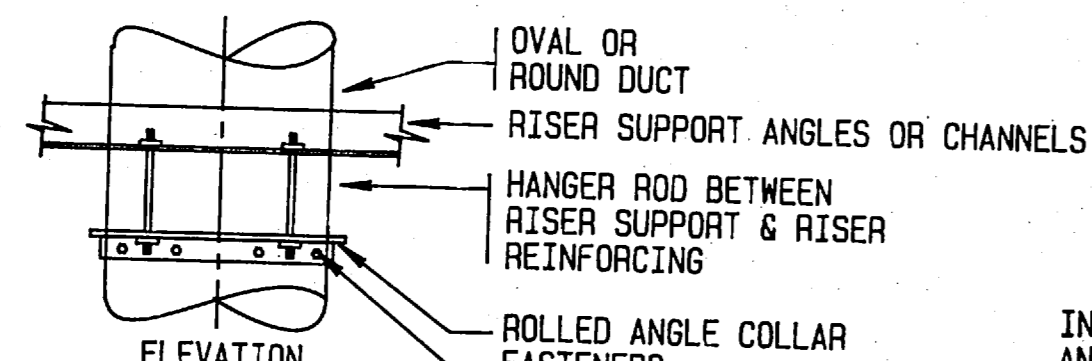
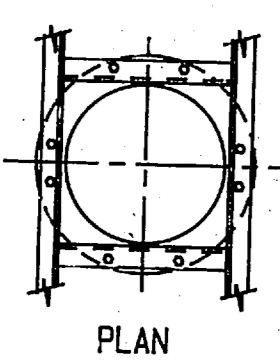
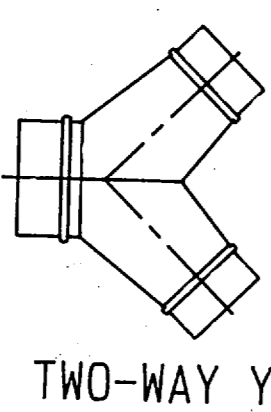
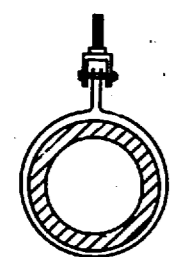
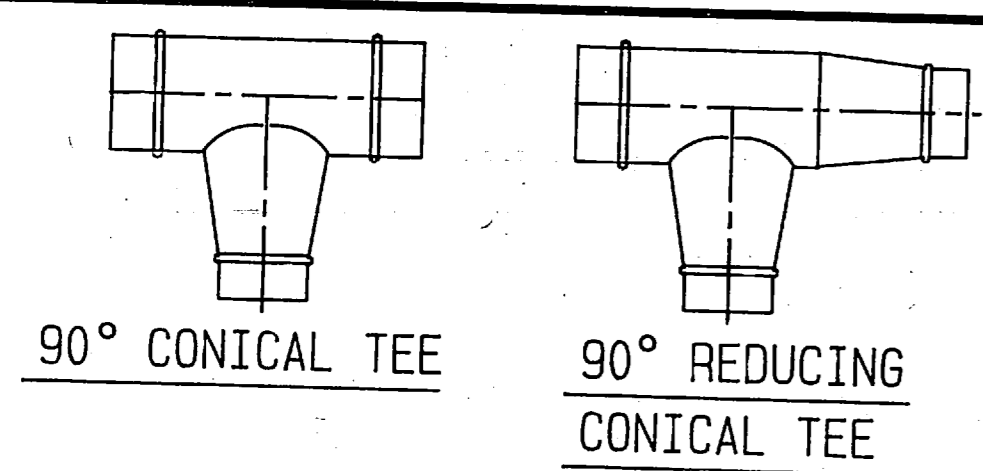
M-31

FEREBEE, WALTERS & ASSOCIATES
 ARCHITECTURE
 PLANNING
 CHARLOTTE NORTH CAROLINA

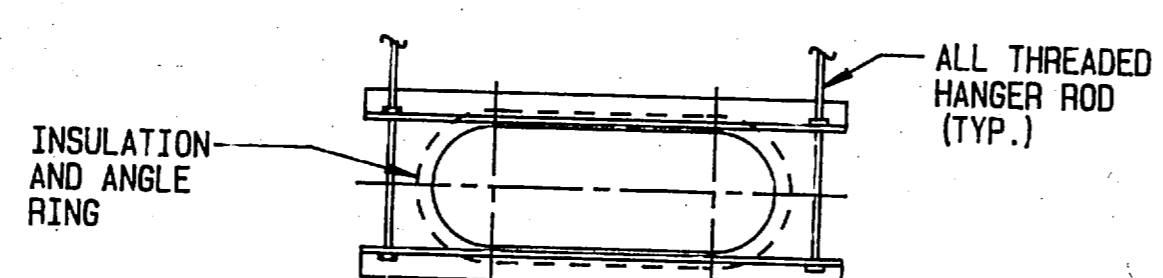
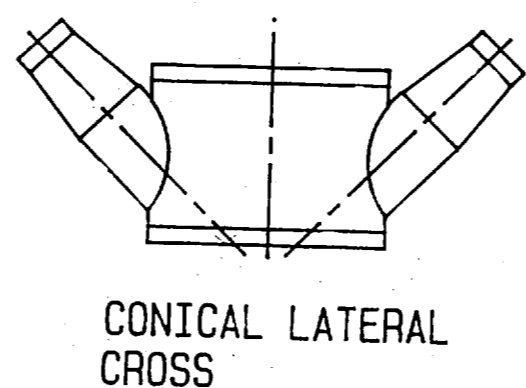
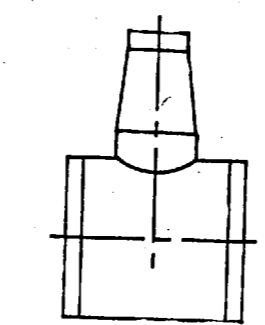
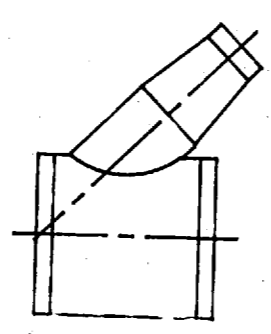
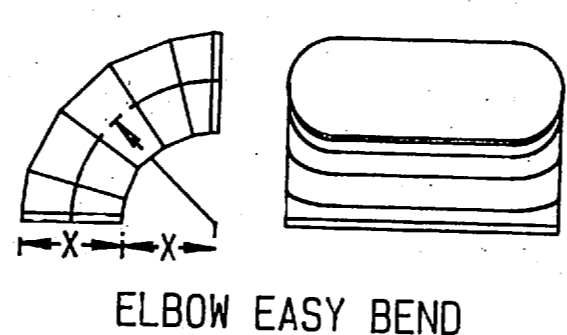
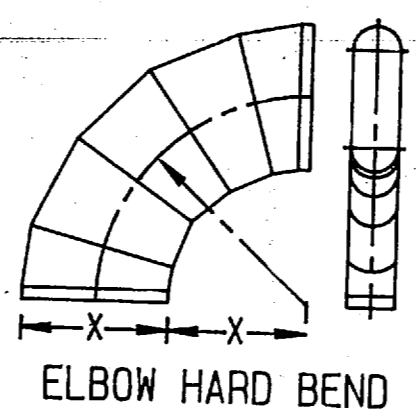
PROJECT: HOSPITAL TO...
 SUBMITTED BY: ...
 DATE: ...

APPROVED: [Signature]
 OFFICE IN CHARGE: ...
 DATE: ...

SCALE: NOTES ...



SUPPORTS FOR RISERS (ROUND OR OVAL)



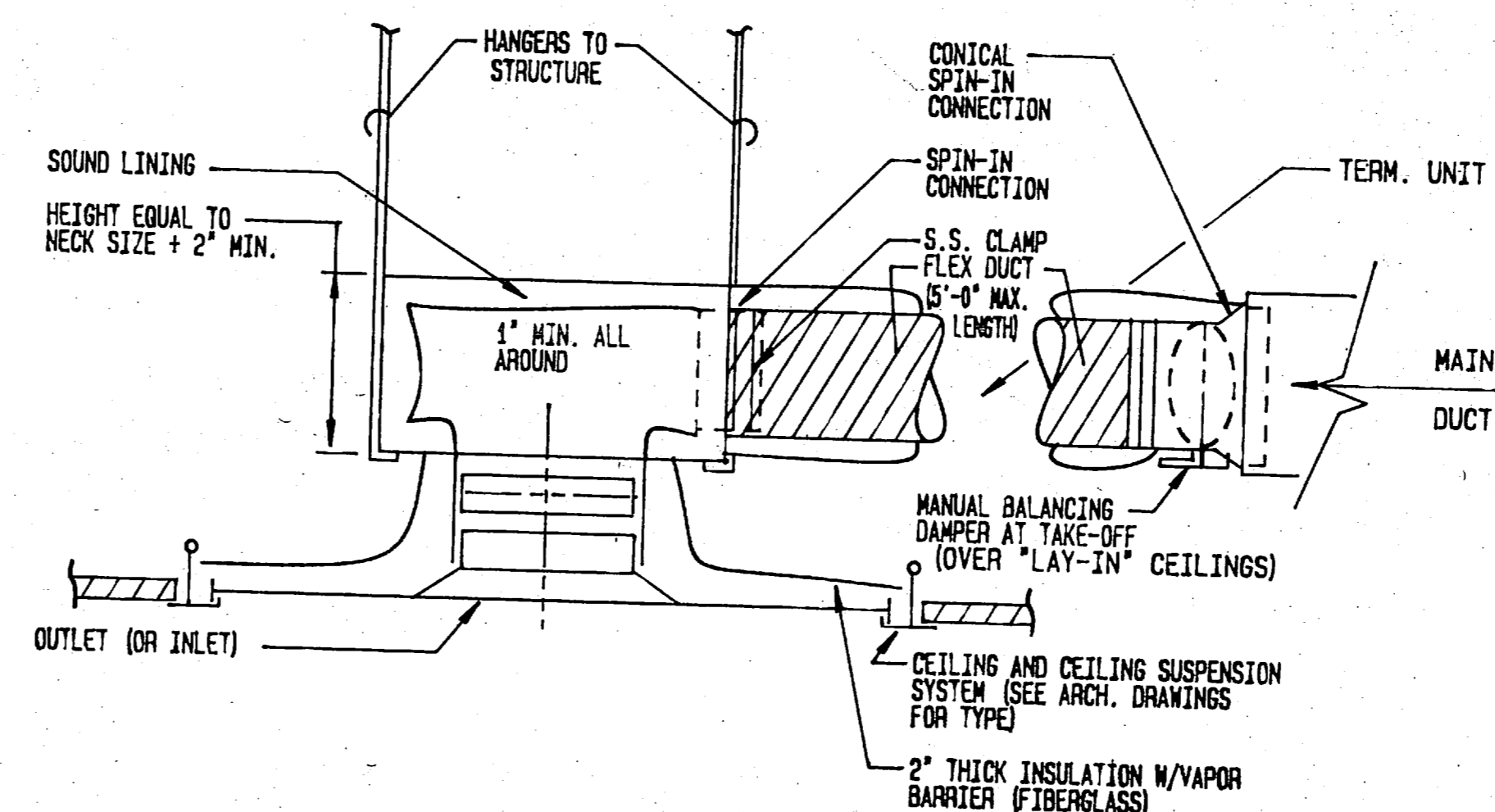
SUPPORT DETAIL

A MED. PRESS. DUCT DETAILS

NO SCALE

B MED. PRESS. FLAT OVAL DUCT DETAIL

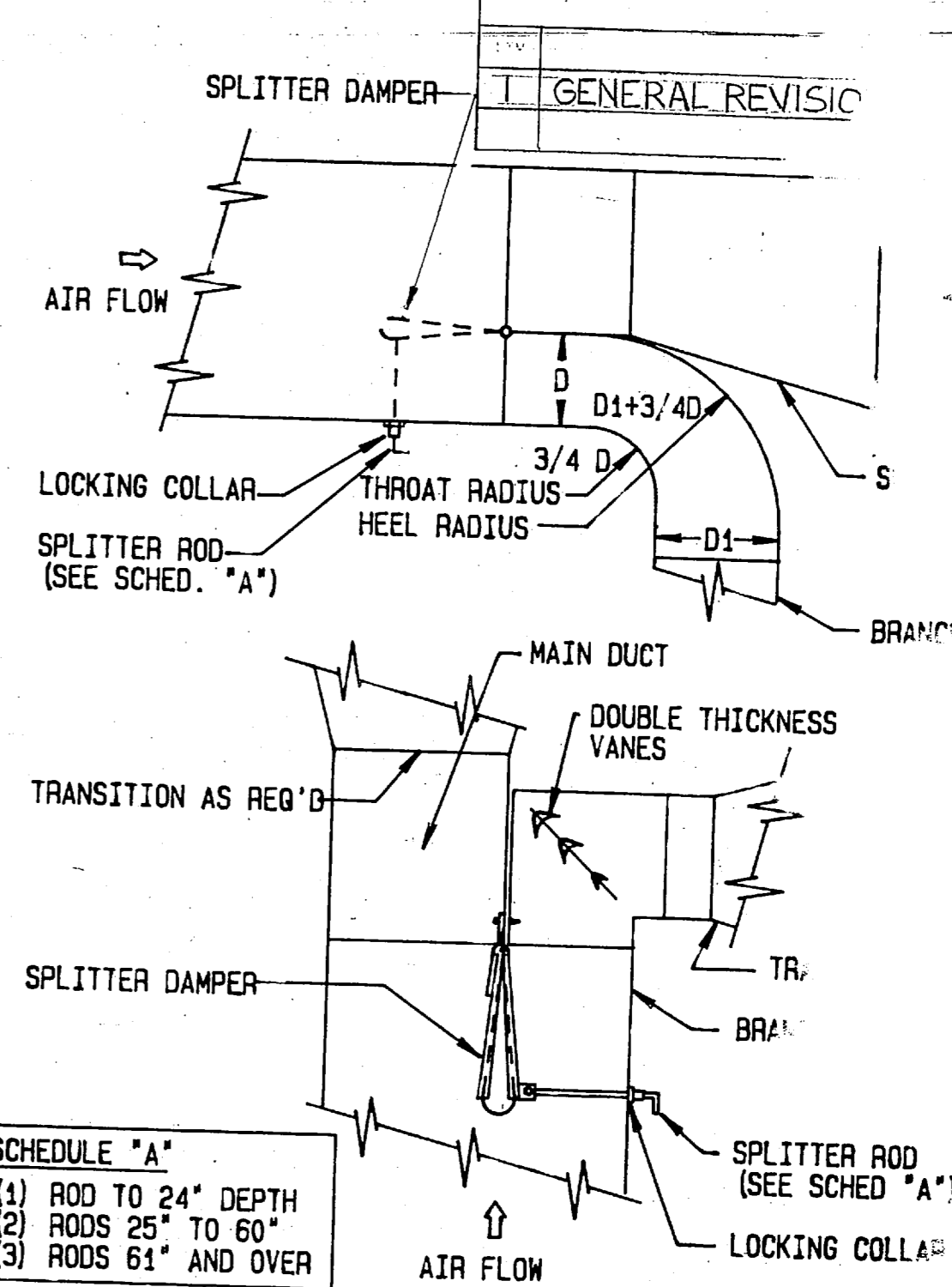
NO SCALE



NOTE: USE DIFFUSER-MOUNTED BALANCING DAMPER IN "SOLID" CEILINGS ONLY.

C GRILLE/DIFFUSER MOUNTING

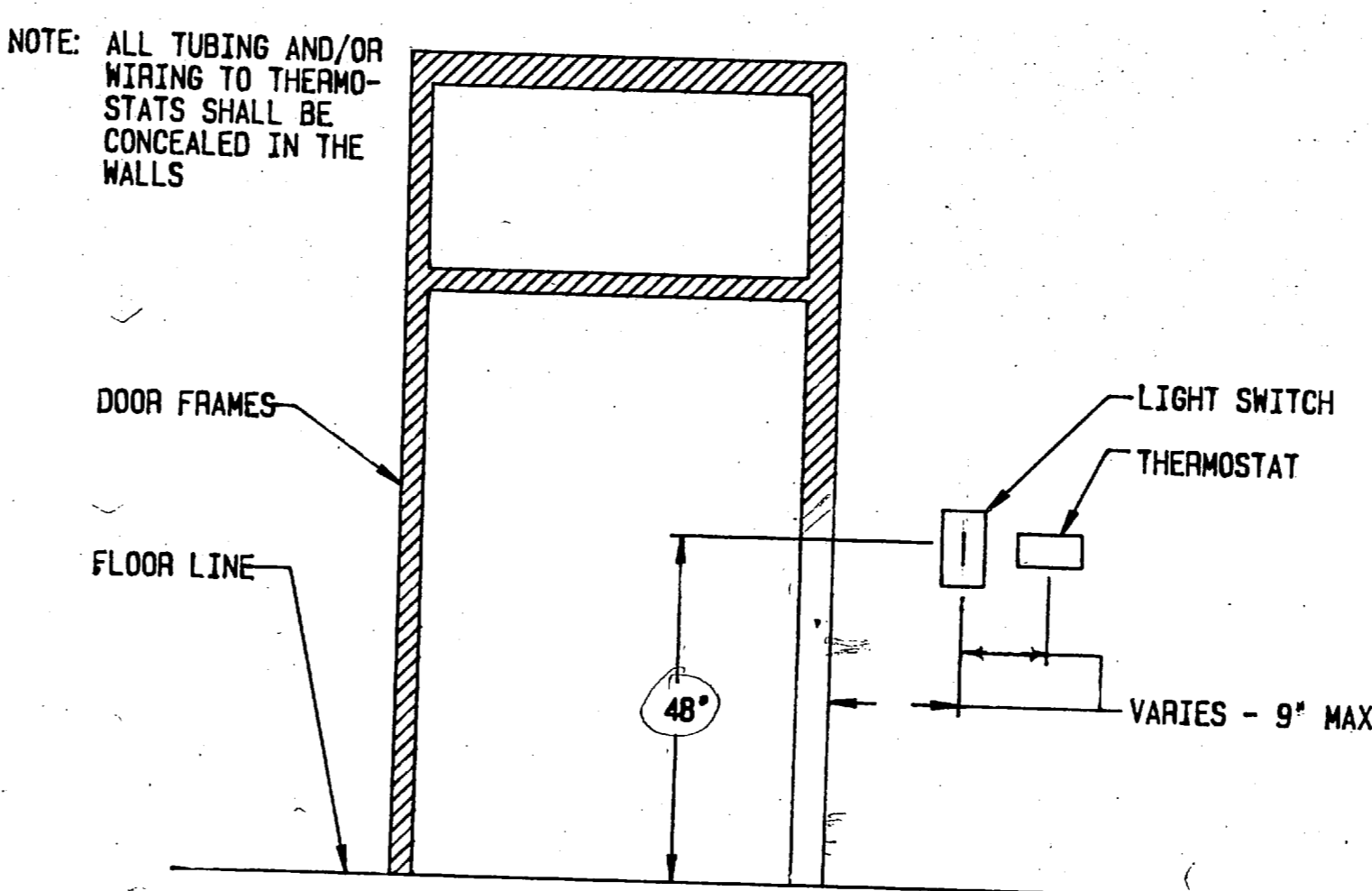
NO SCALE



SCHEDULE "A"
(1) ROO TO 24" DEPTH
(2) ROO 25" TO 60"
(3) ROO 61" AND OVER

D RECTANGULAR DUCT SPLIT CO

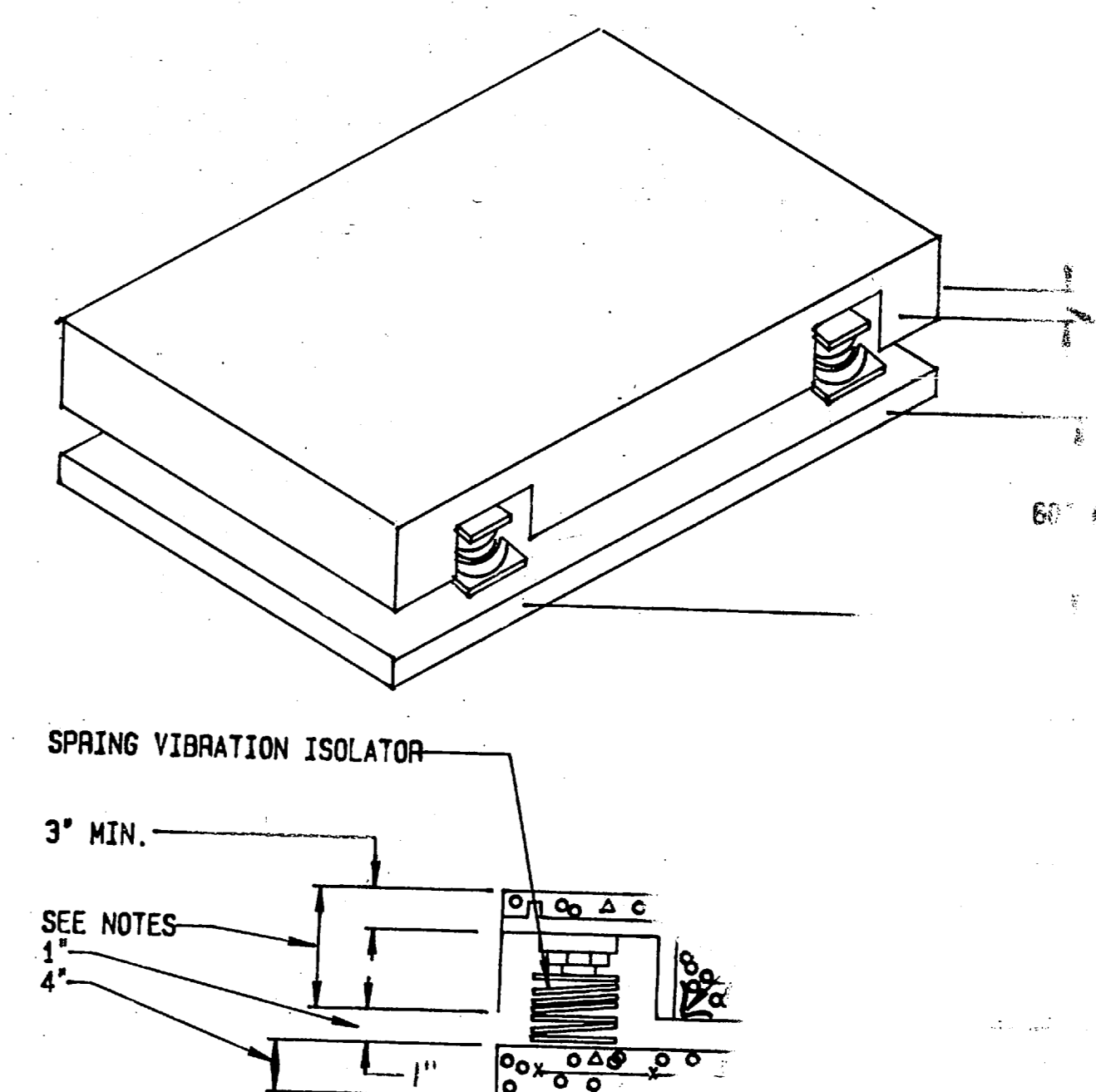
NO SCALE



NOTE: ALL TUBING AND/OR WIRING TO THERMOSTATS SHALL BE CONCEALED IN THE WALLS

G ROOM T'STAT LOCATION DETAIL

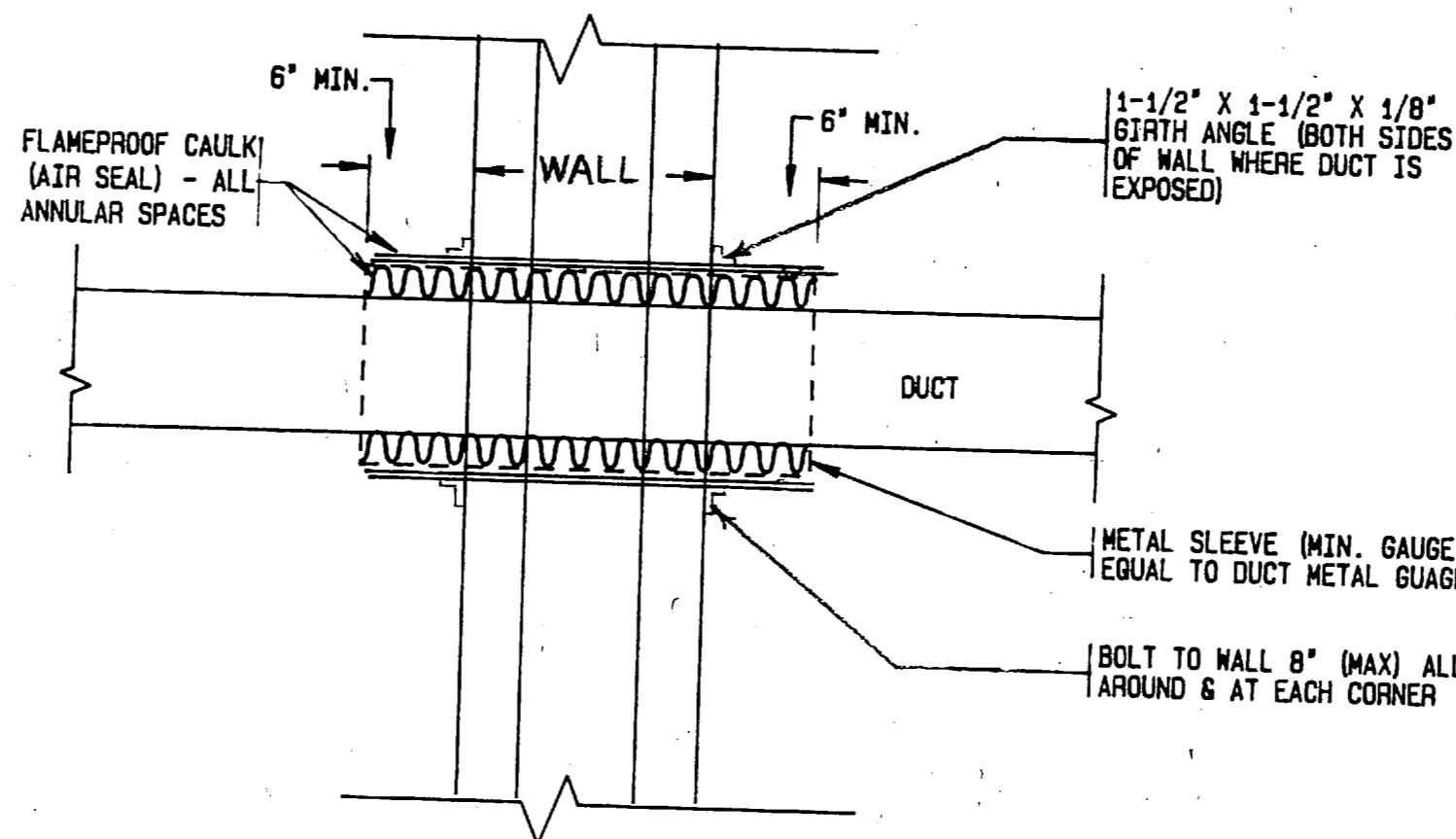
NO SCALE



NOTES:
1. INERTIAL PAD SHALL WEIGH NOT LESS THAN WEIGHT OF THE EQUIPMENT TO BE MOUNTED
2. THE MINIMUM THICKNESS OF "I" PAD SHALL BE 1/2"
3. INERTIAL PAD SHALL BE SIZE
4. NO INERTIAL PAD IS REQ'D IN

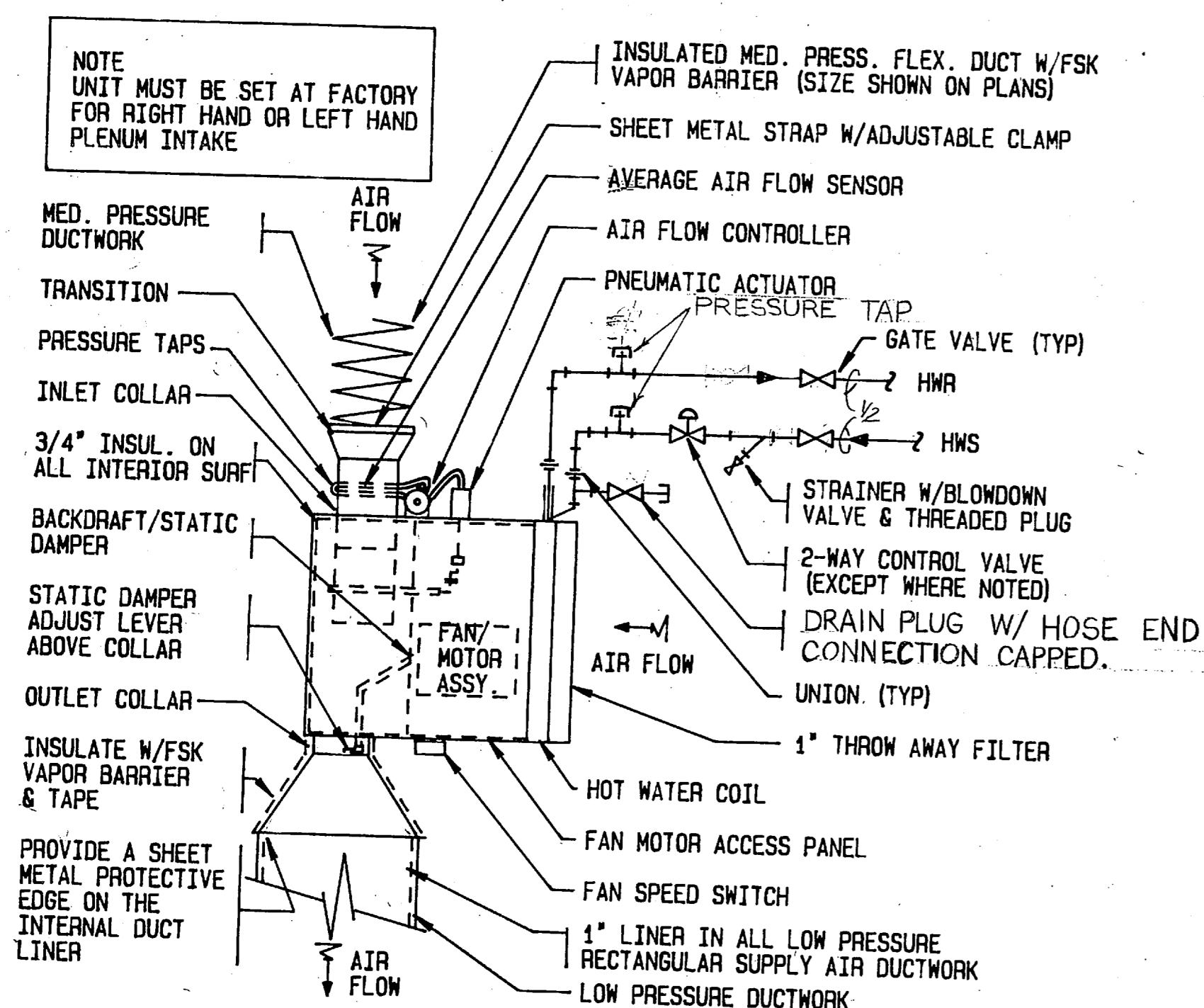
J INERTIA PAD DETAIL

NO SCALE



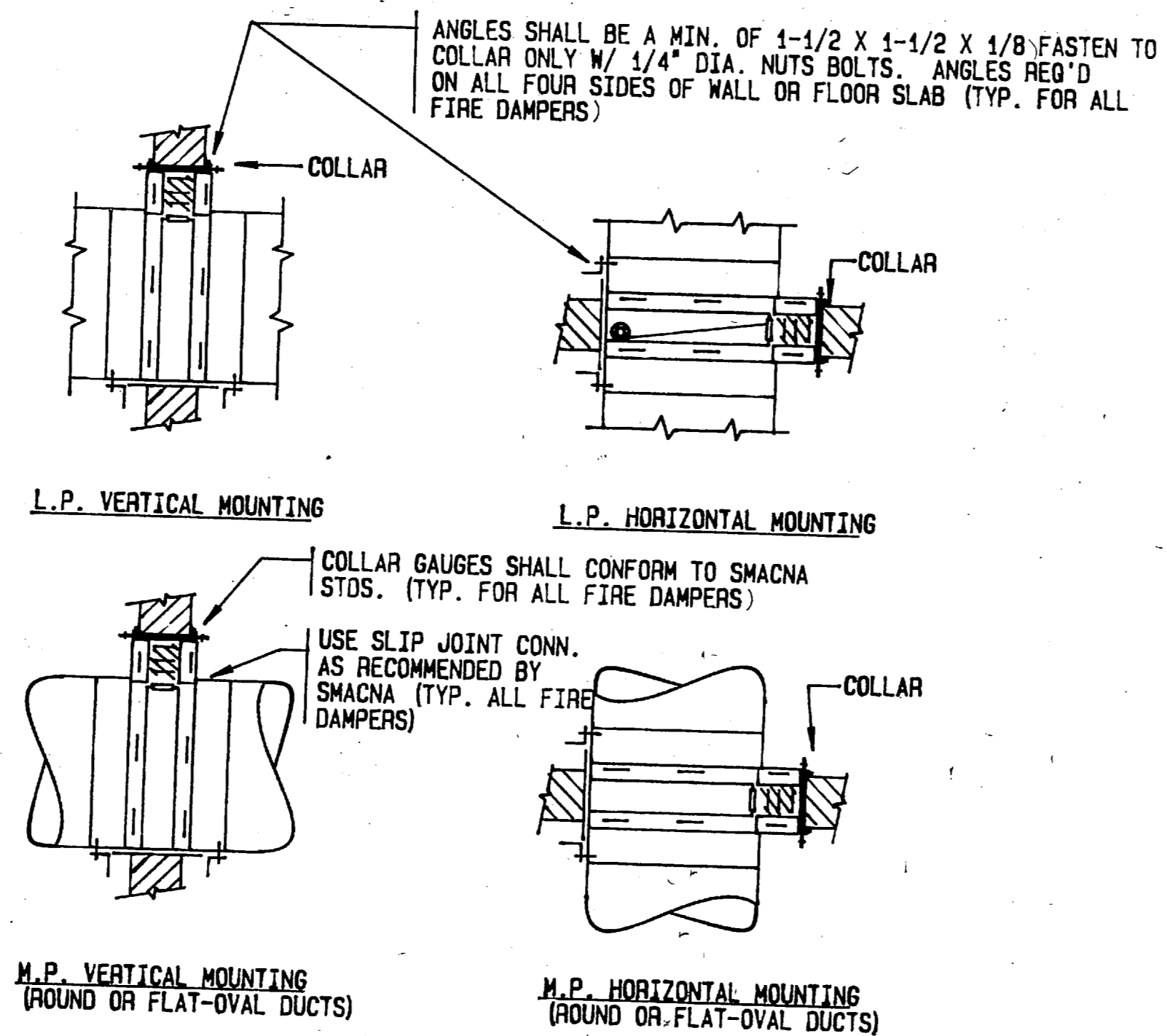
H DUCT PENETRATION OF 1 HOUR RATED WALL

NO SCALE



E VARIABLE VOLUME FAN BOX

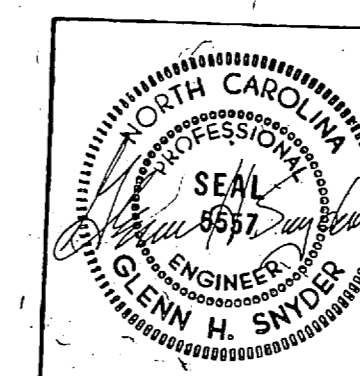
NO SCALE



F FIRE DAMPER - DETAILS

NO SCALE

NOTE:
ACCESS DOORS IN DUCT SHALL BE PROVIDED FOR EACH DAMPER FOR ACCESS TO FUSIBLE LINKS. CONTRACTOR SHALL ASSURE ACCESS THRU CEILING AND STRUCTURE IS PROVIDED. SOME ACCESS DOORS ARE LOCATED ON PLANS FOR CLARITY

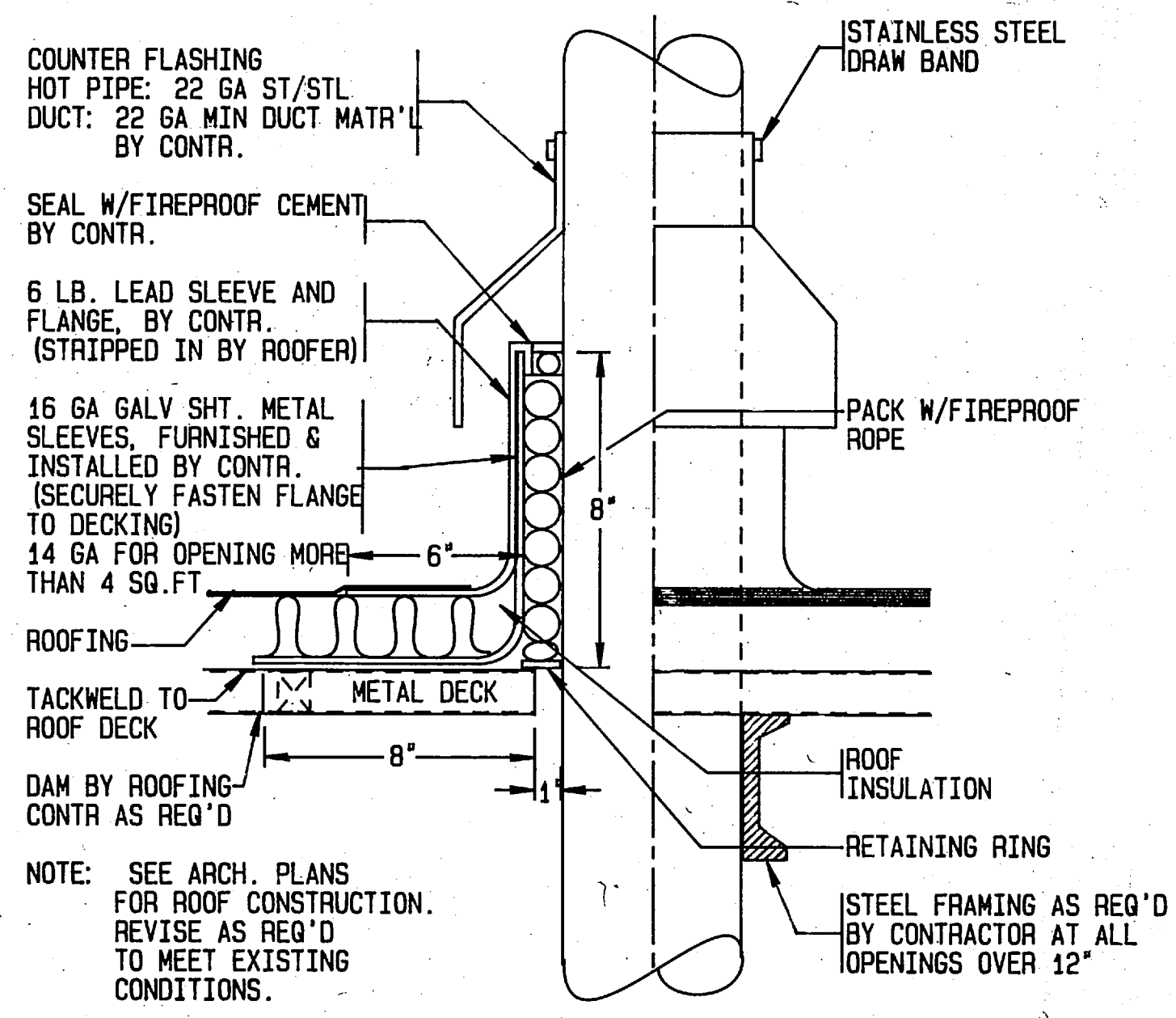


FEREBEE, WALTERS & ASSOCIATES
ARCHITECTURE PLANNING INTERIOR DESIGN
CHARLOTTE NORTH CAROLINA
DESIGNED BY G. H. S. WADE
SUBMITTED BY [Signature]
DATE [Date]
APPROVED BY [Signature]
DATE [Date]
OFFICER IN CHARGE [Signature]
DATE [Date]

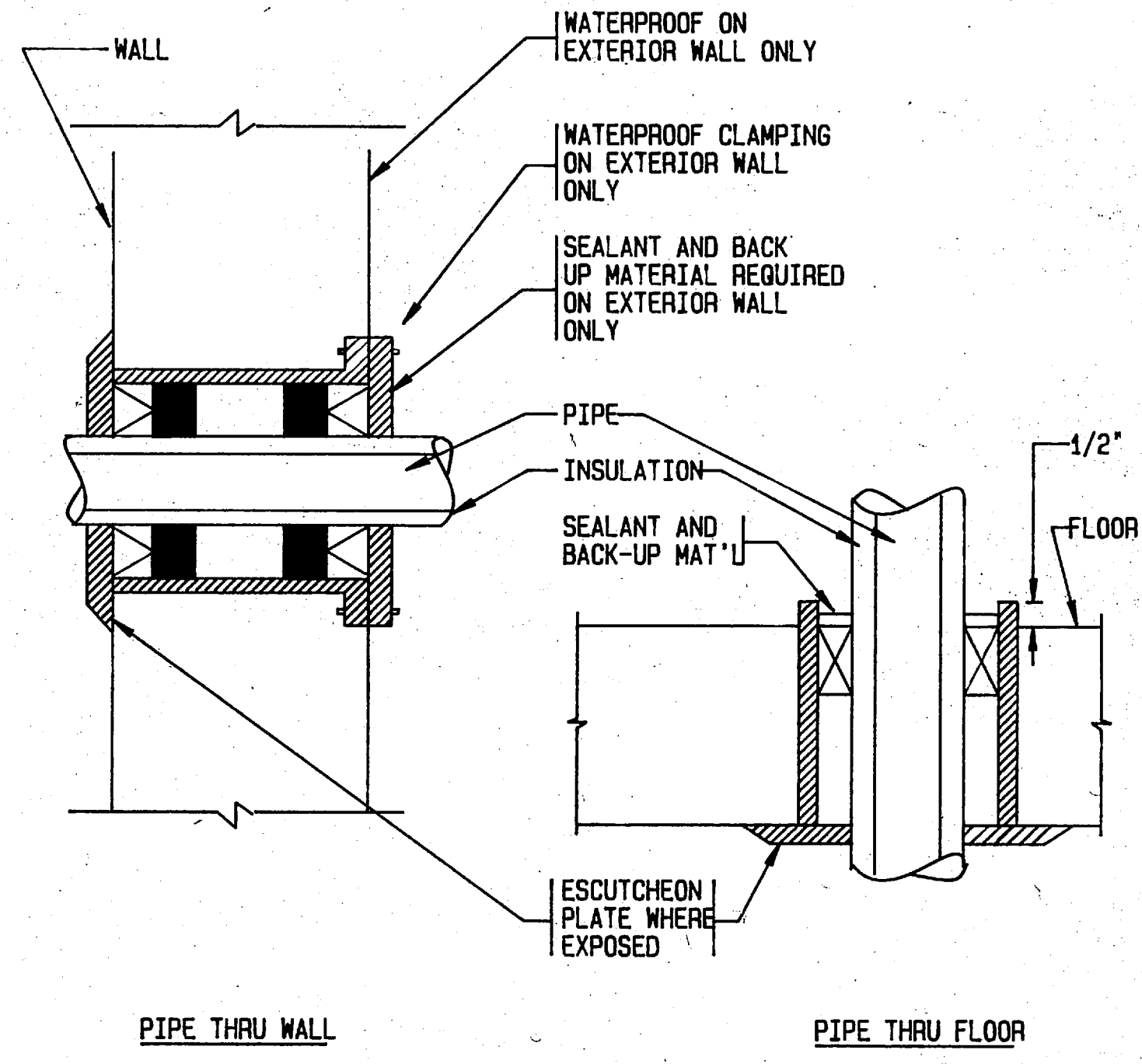
M-32



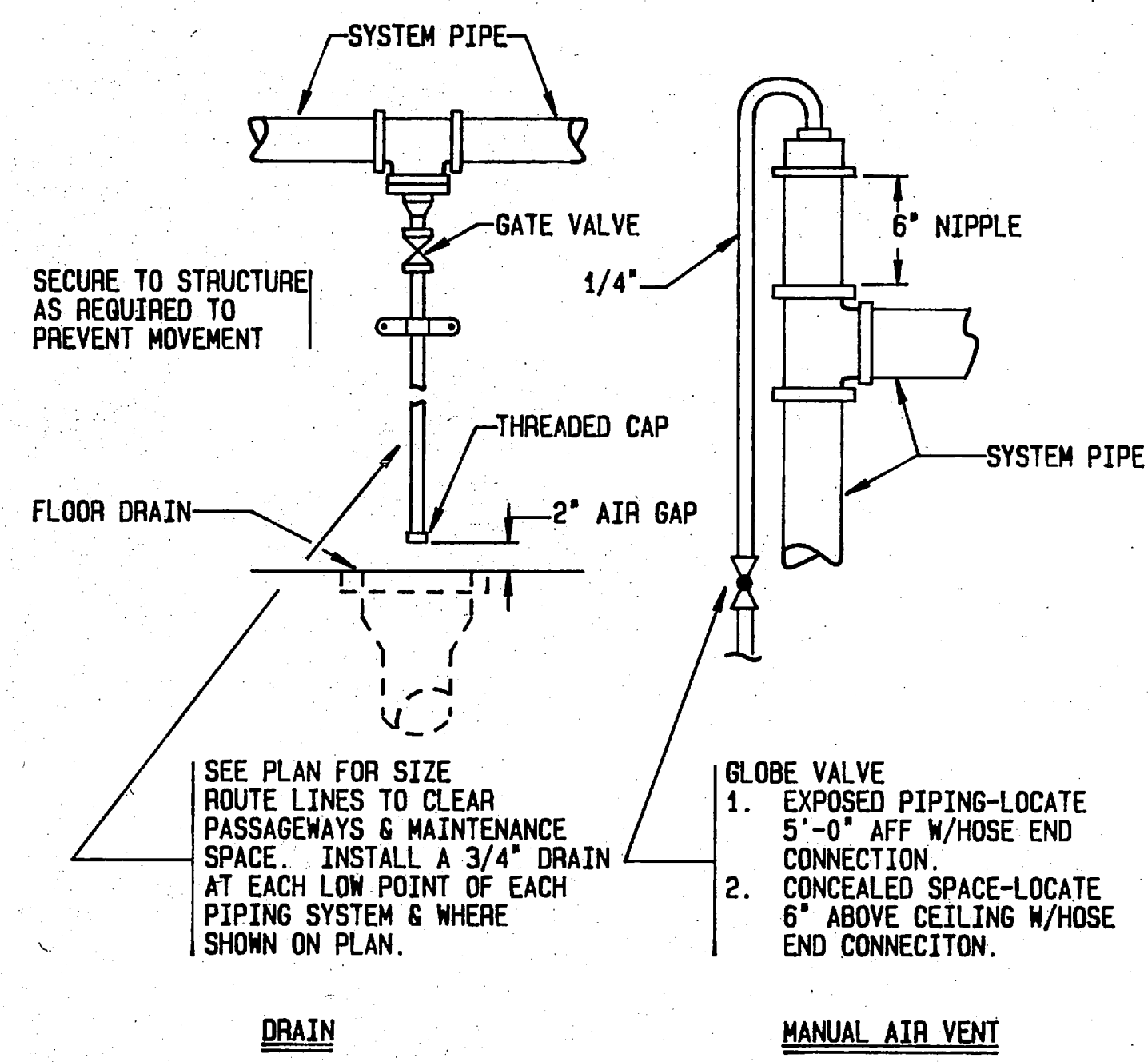
NO.	REVISION
1	GENERAL REV.



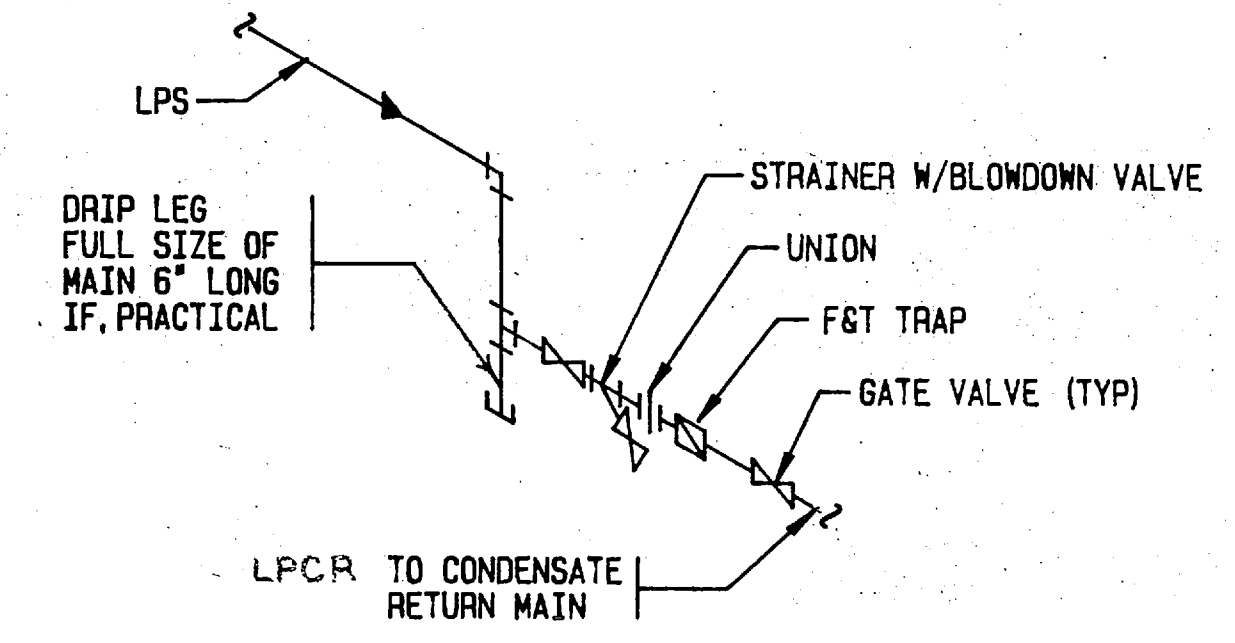
A PIPE THRU ROOF DETAIL
NO SCALE



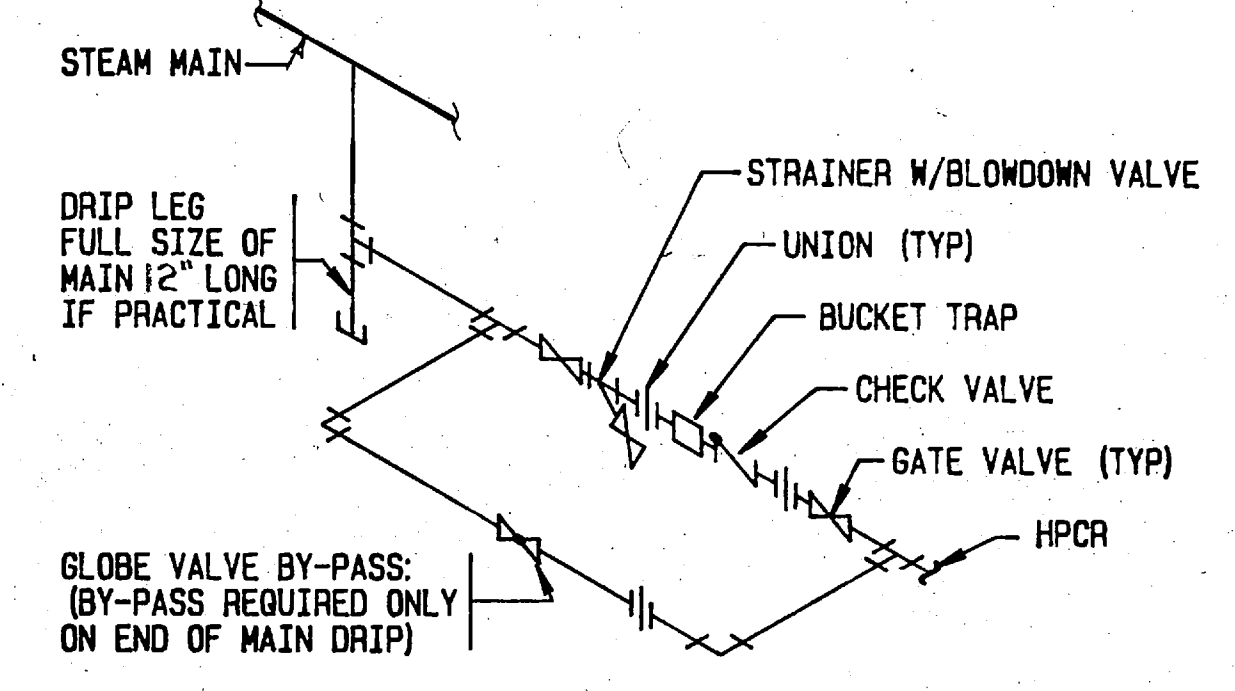
B TYPICAL PIPE SLEEVE DETAILS
NO SCALE



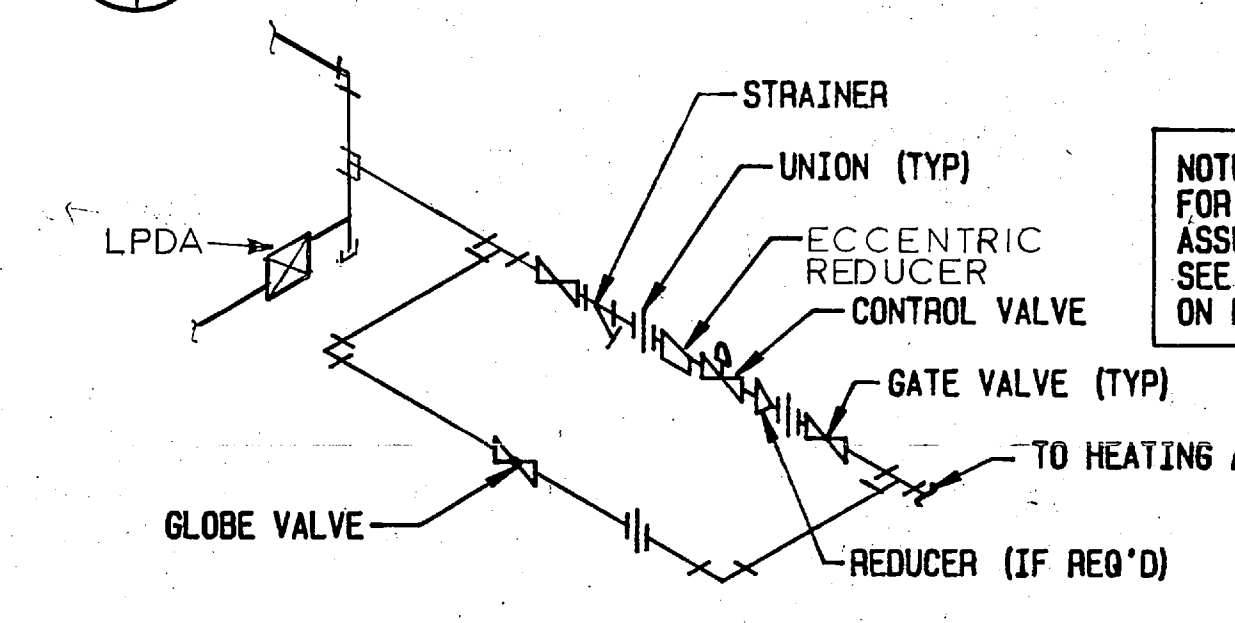
C DRAIN & MANUAL AIR VENT DETAILS
NO SCALE



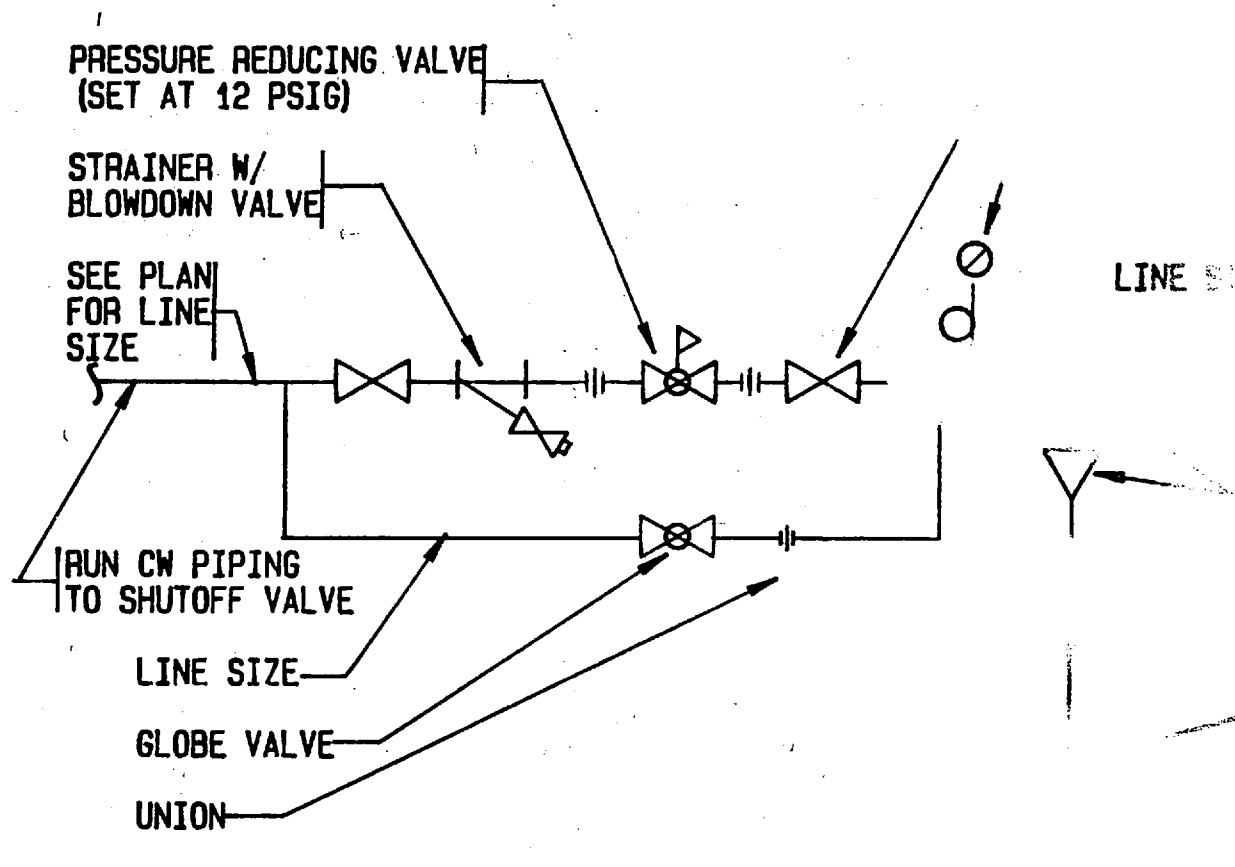
D LOW PRESSURE DRIP ASSEMBLY
NO SCALE



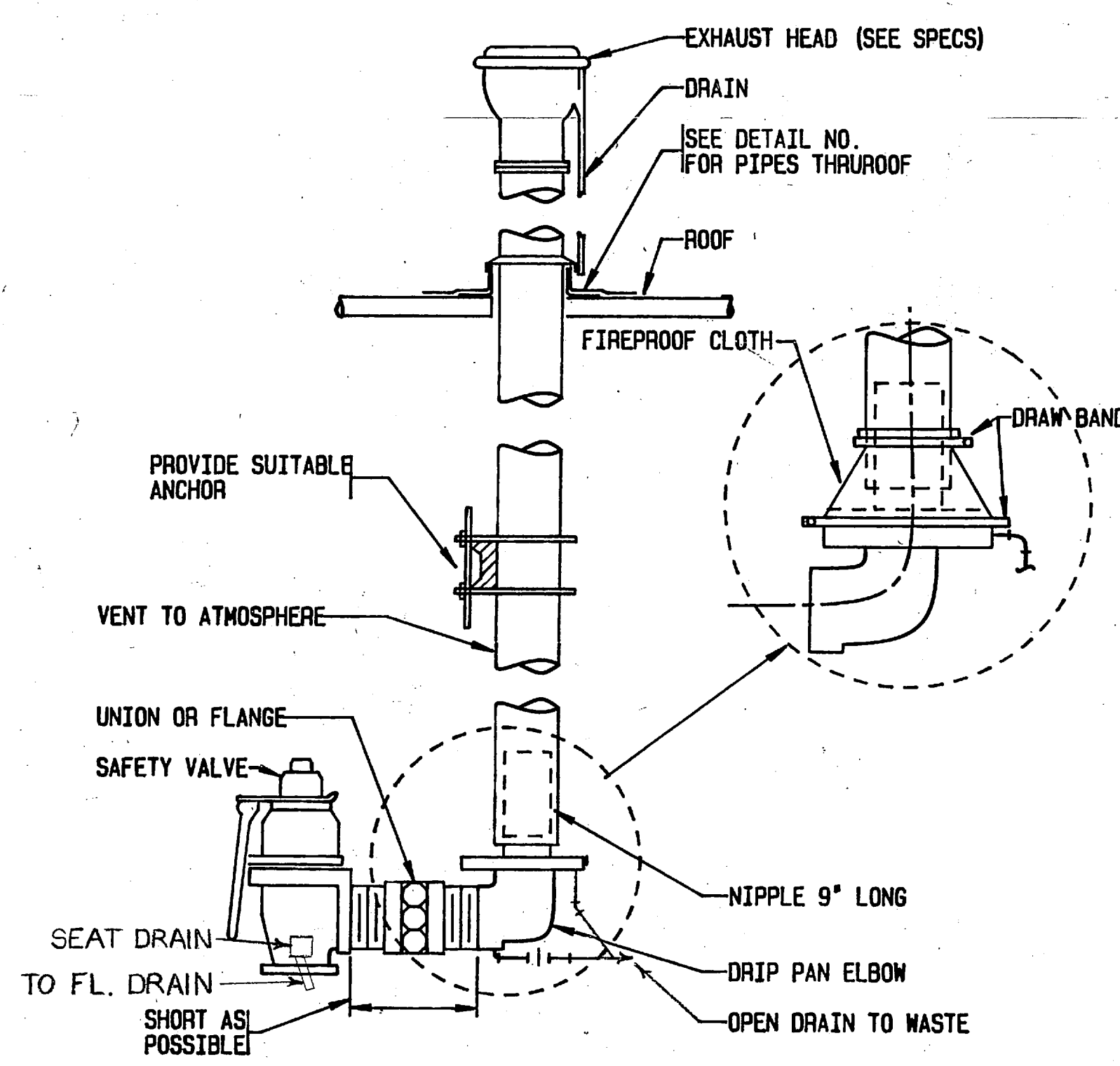
E HIGH PRESS. DRIP ASSEMBLY (HPDA)
NO SCALE



J LOW PRESSURE STEAM VALVE ASSEMBLY
NO SCALE

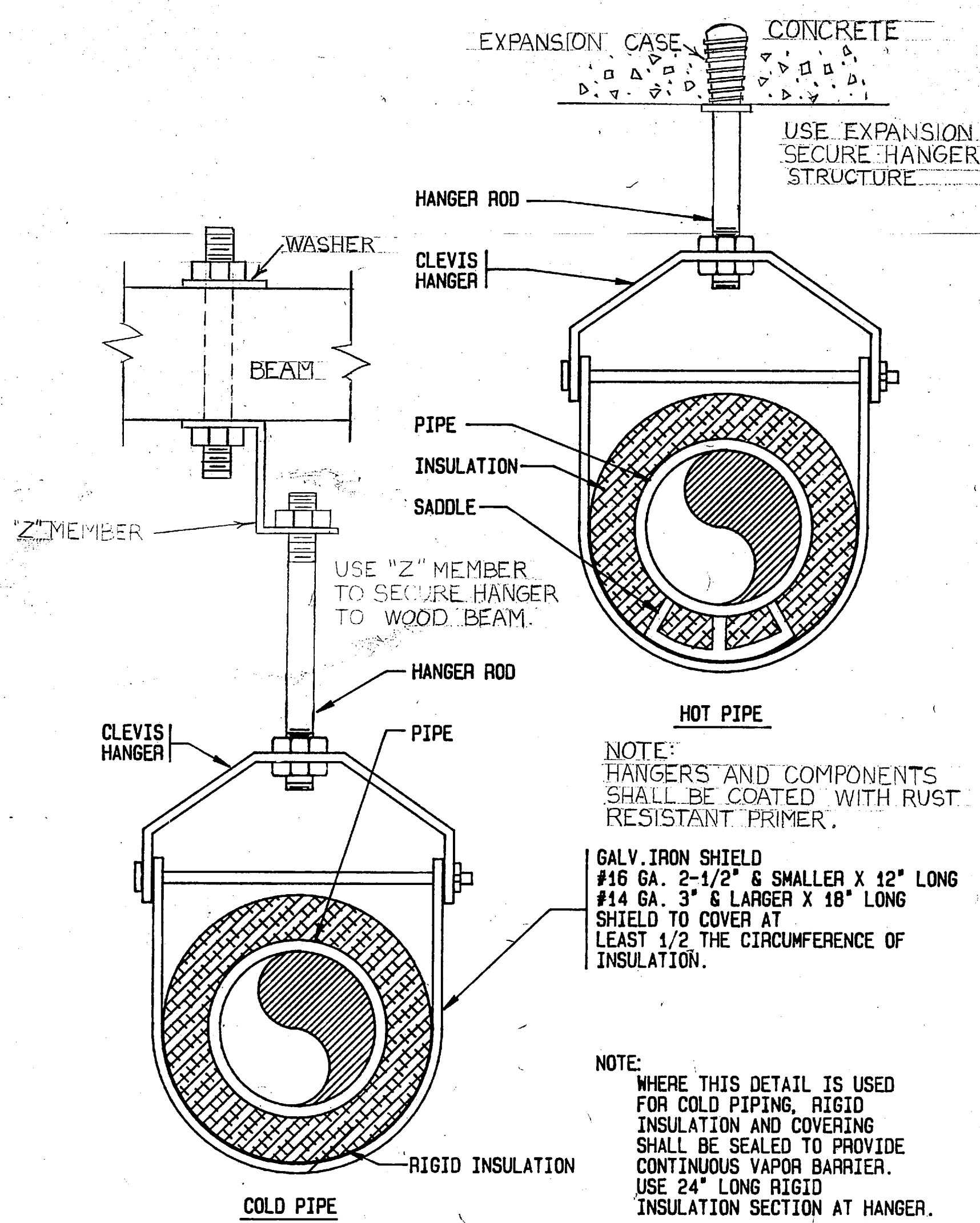


K MAKE-UP WATER ASSEMBLY
NO SCALE



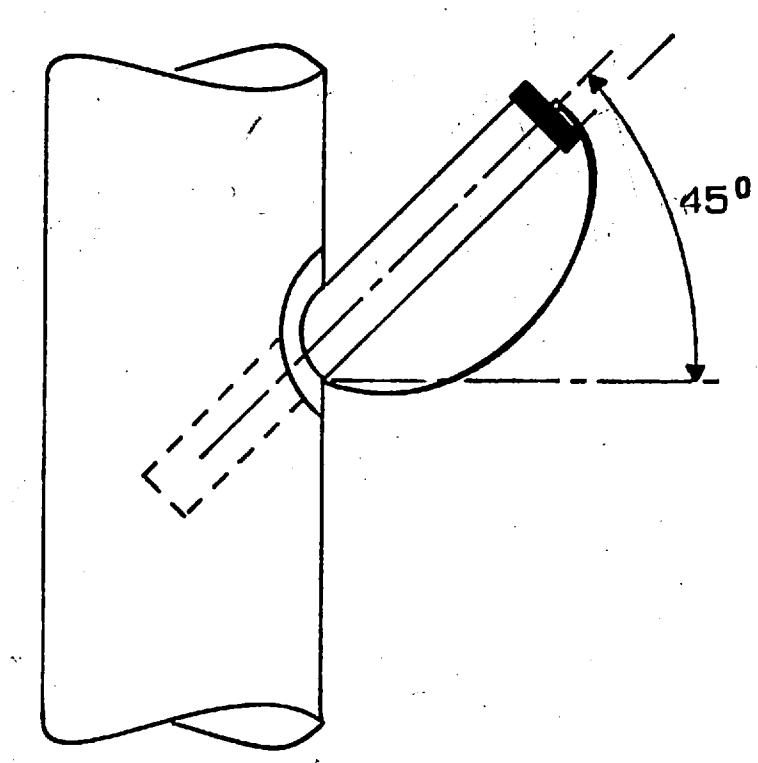
VALVE DISCHARGE	DISCHARGE ELBOW	DISCHARGE NIPPLE	VENT SIZE	DRAIN SIZE
2 1/2"	2 1/2"	2 1/2" X 9"	4"	3/4"
3"	3"	3" X 9"	4"	3/4"
3 1/2"	3 1/2"	3 1/2" X 9"	5"	3/4"
4"	4"	4" X 9"	5"	3/4"
5"	5"	5" X 9"	6"	3/4"
6"	6"	6" X 9"	6"	3/4"
8"	8"	8" X 9"	10"	1"

F SAFETY VALVE RELIEF CONNECTION
NO SCALE



PIPE SIZE	ROD SIZE	DRILL SIZE
3/4-2	3/8	3/4
2 1/2-3 1/2	1 1/2	1"

G PIPE HANGER DETAIL
NO SCALE



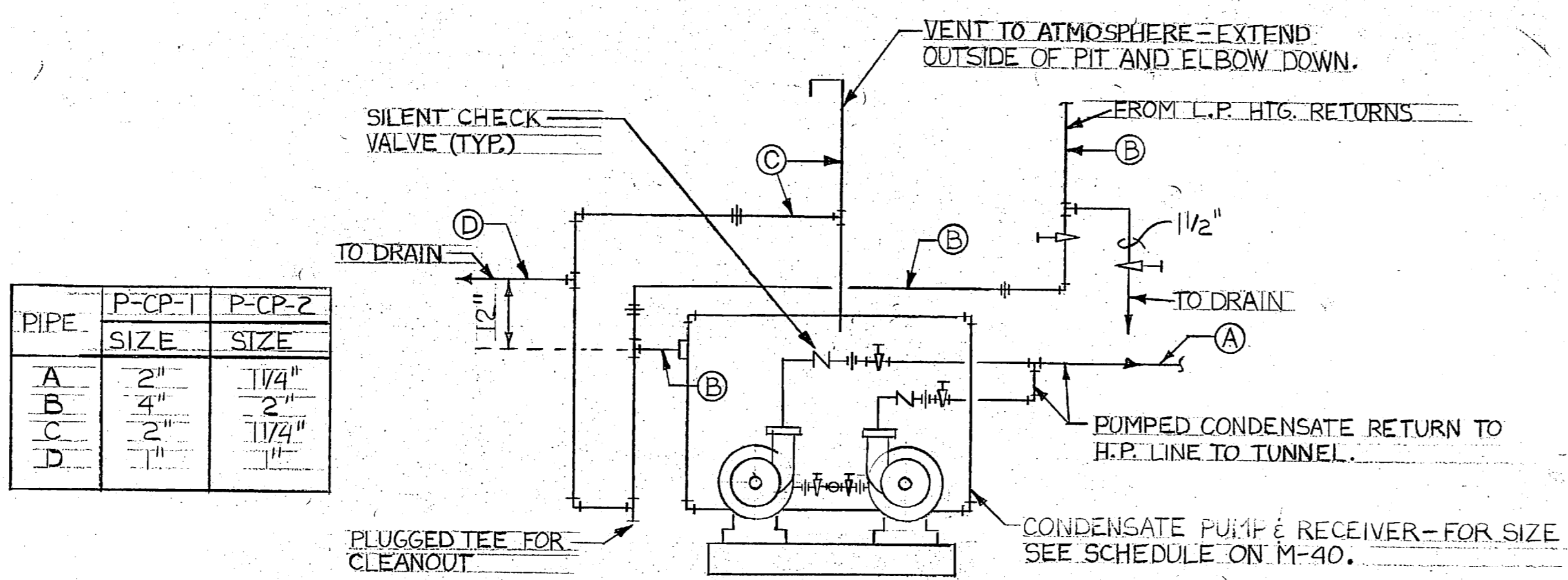
H THERMOMETER WELL
NO SCALE

FEREBEE, WALTERS & ASSOCIATES
ARCHITECTURE LANDSCAPE DESIGN
PLANNING INTERIOR DESIGN
CHARLOTTE NORTH CAROLINA

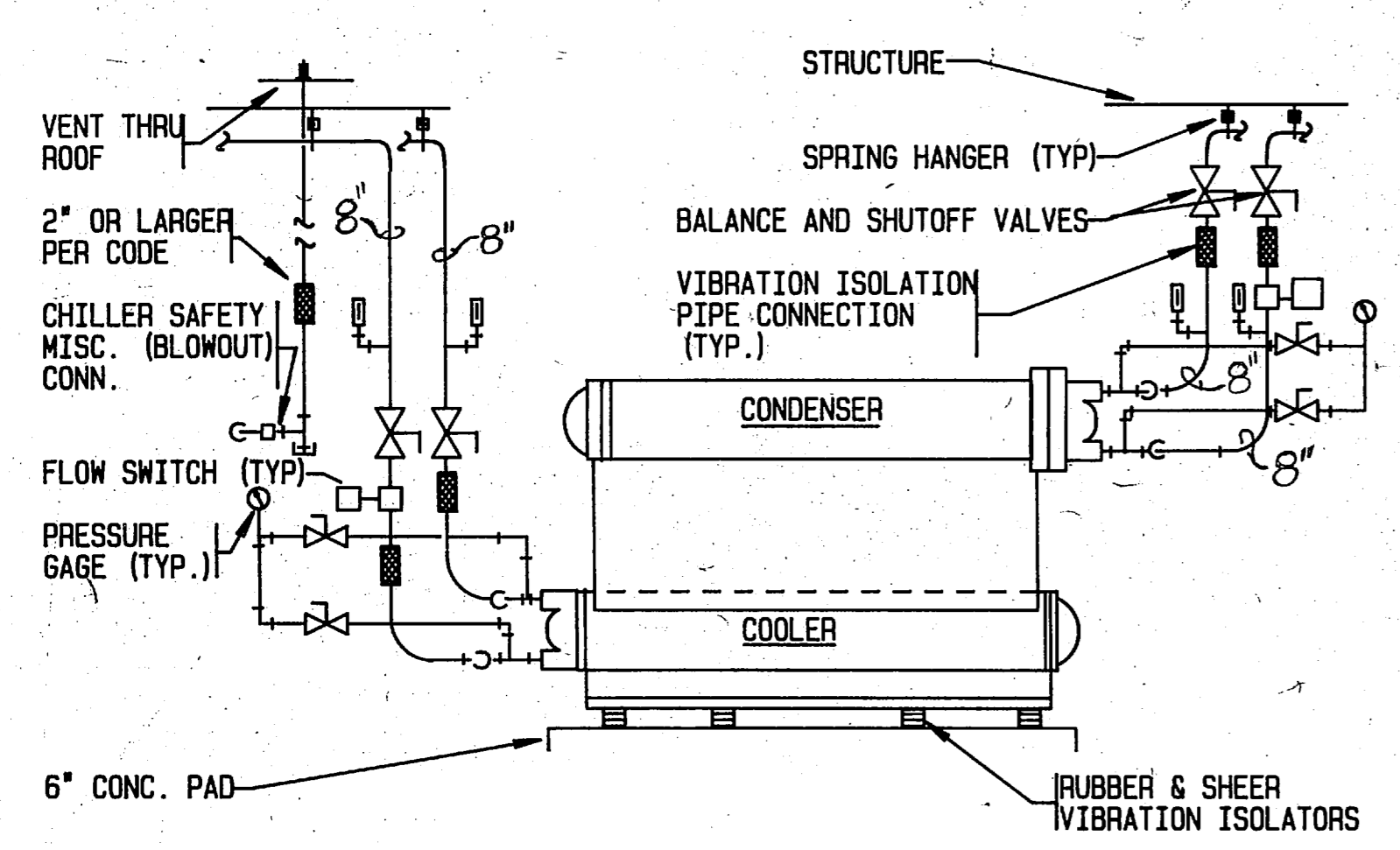
DESIGNER: G. H. S. [Signature]
PROJ. MGR: [Signature]
SUBMITTED BY: [Signature]
FIRM MEMBER: [Signature]
DATE: 12/17/80

APPROVED BY: [Signature] OFFICER IN CHARGE
DATE: 12/17/80
FOR IEP FOR COMMANDER, NAVY

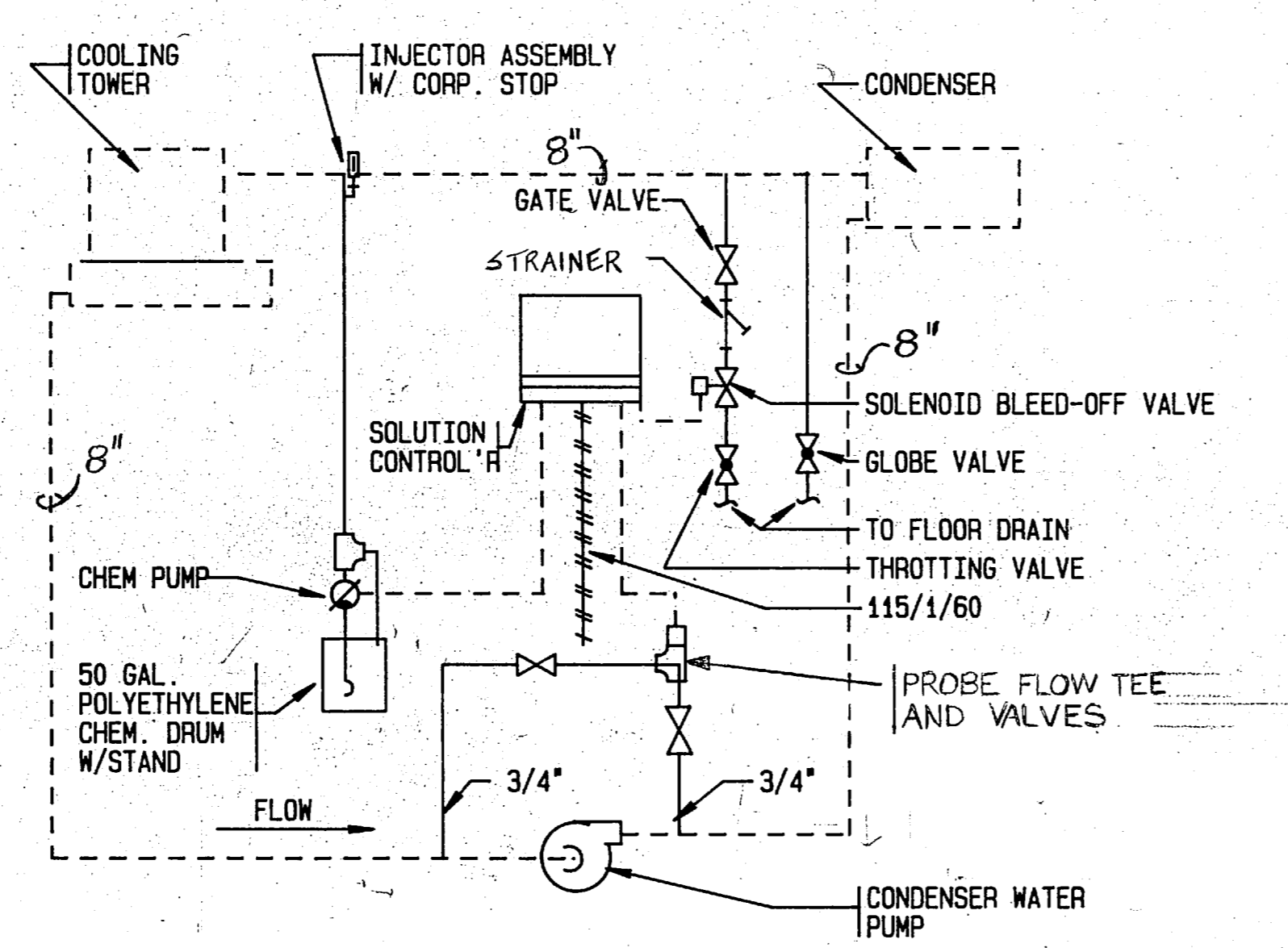
SYM	DESCR
J	GENERAL REV



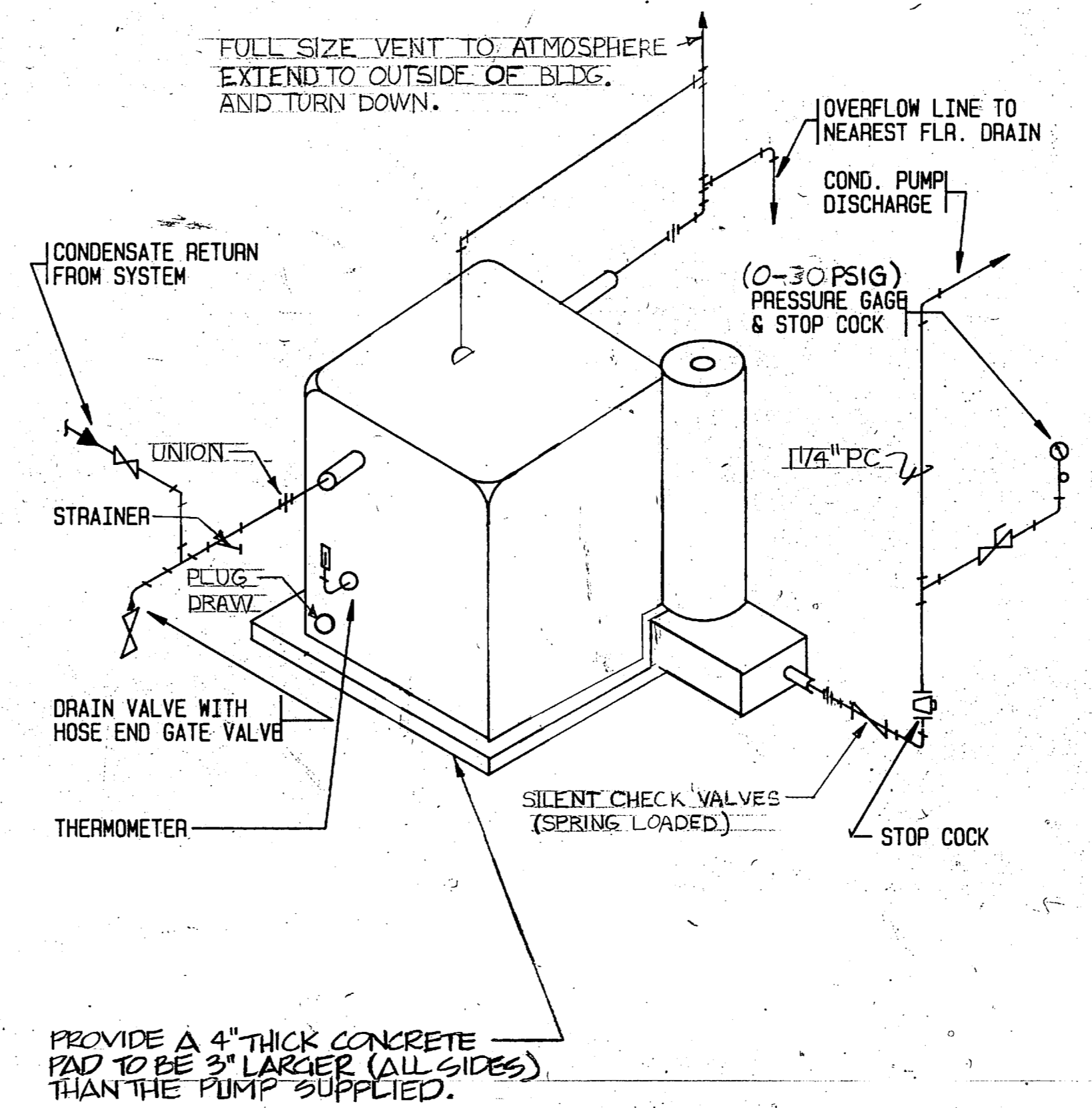
I TURBINE CONDENSATE PUMPS
NO SCALE



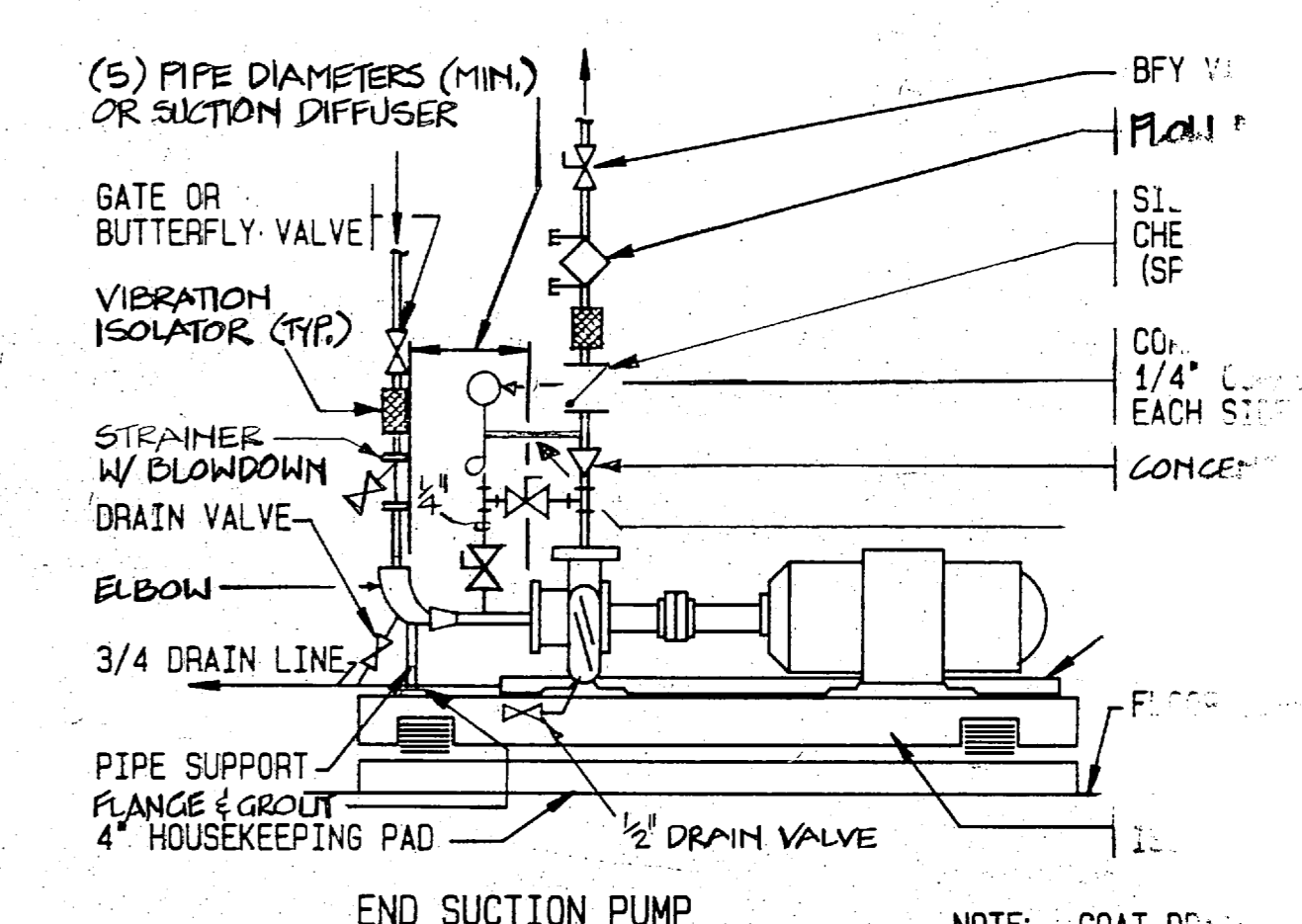
A CHILLER PIPING DETAIL
NO SCALE



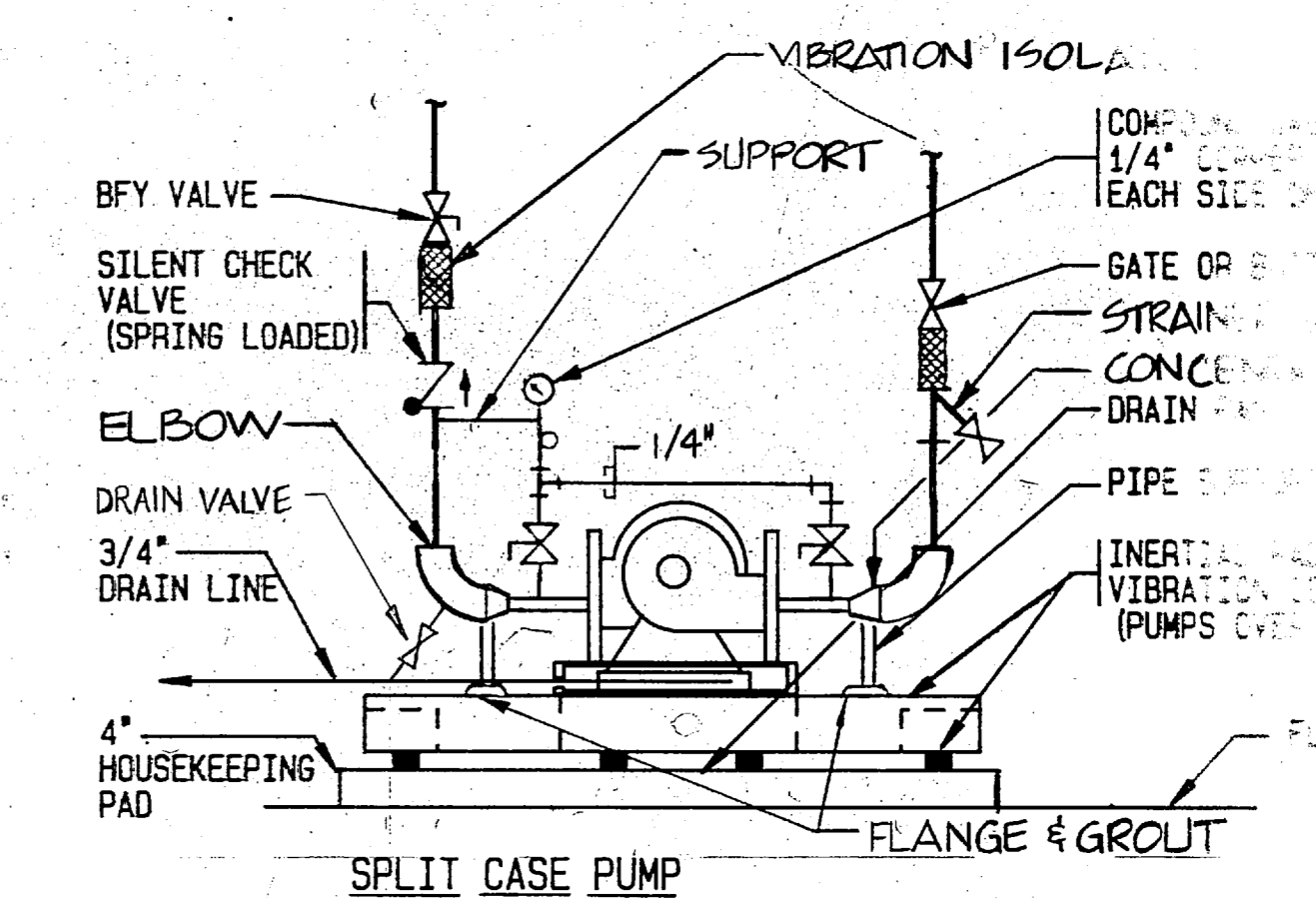
B COOLING TOWER WATER TREATMENT SCHEMATIC
NO SCALE



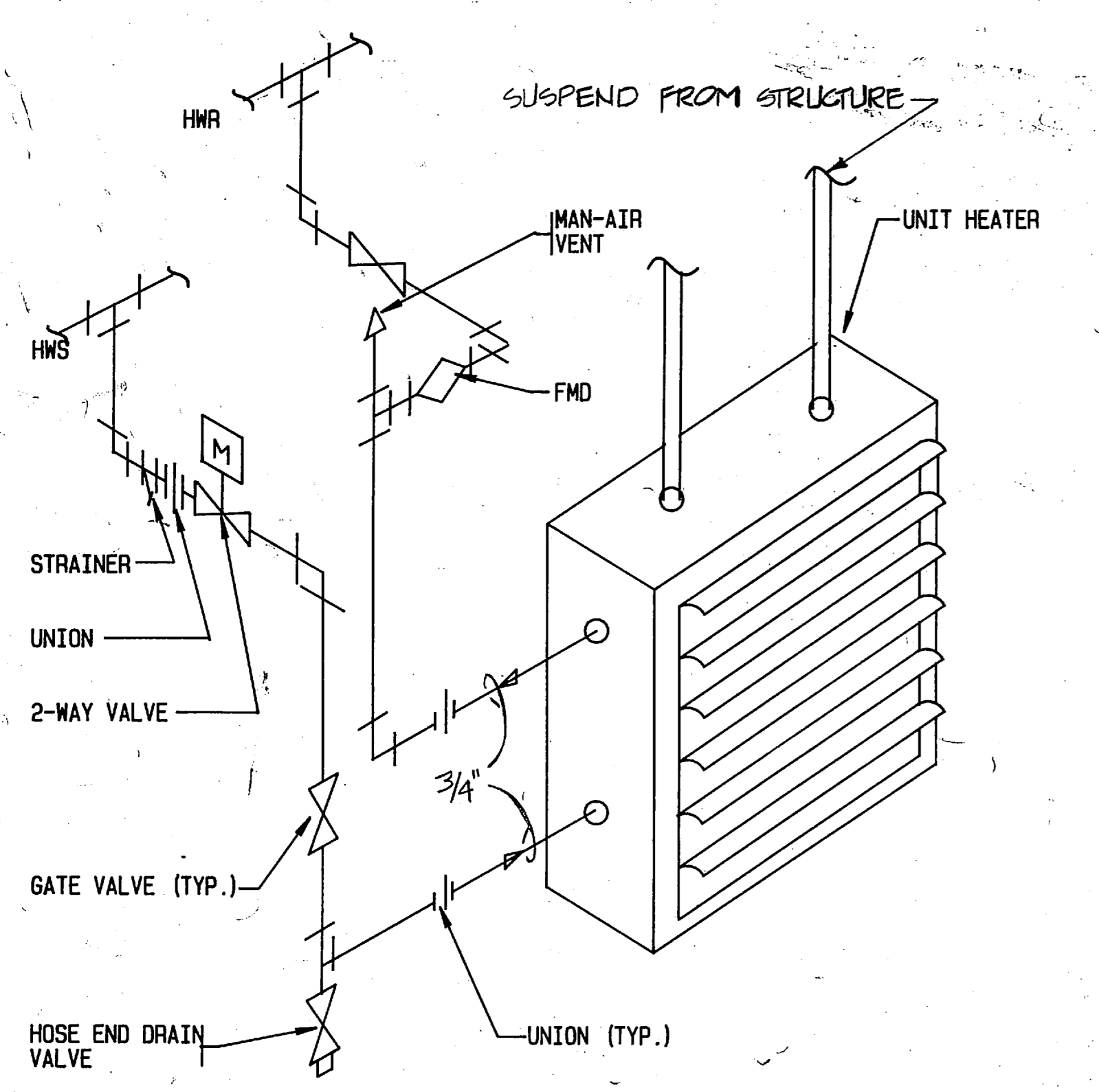
C SIMPLEX CONDENSATE PUMP PIPING
NO SCALE



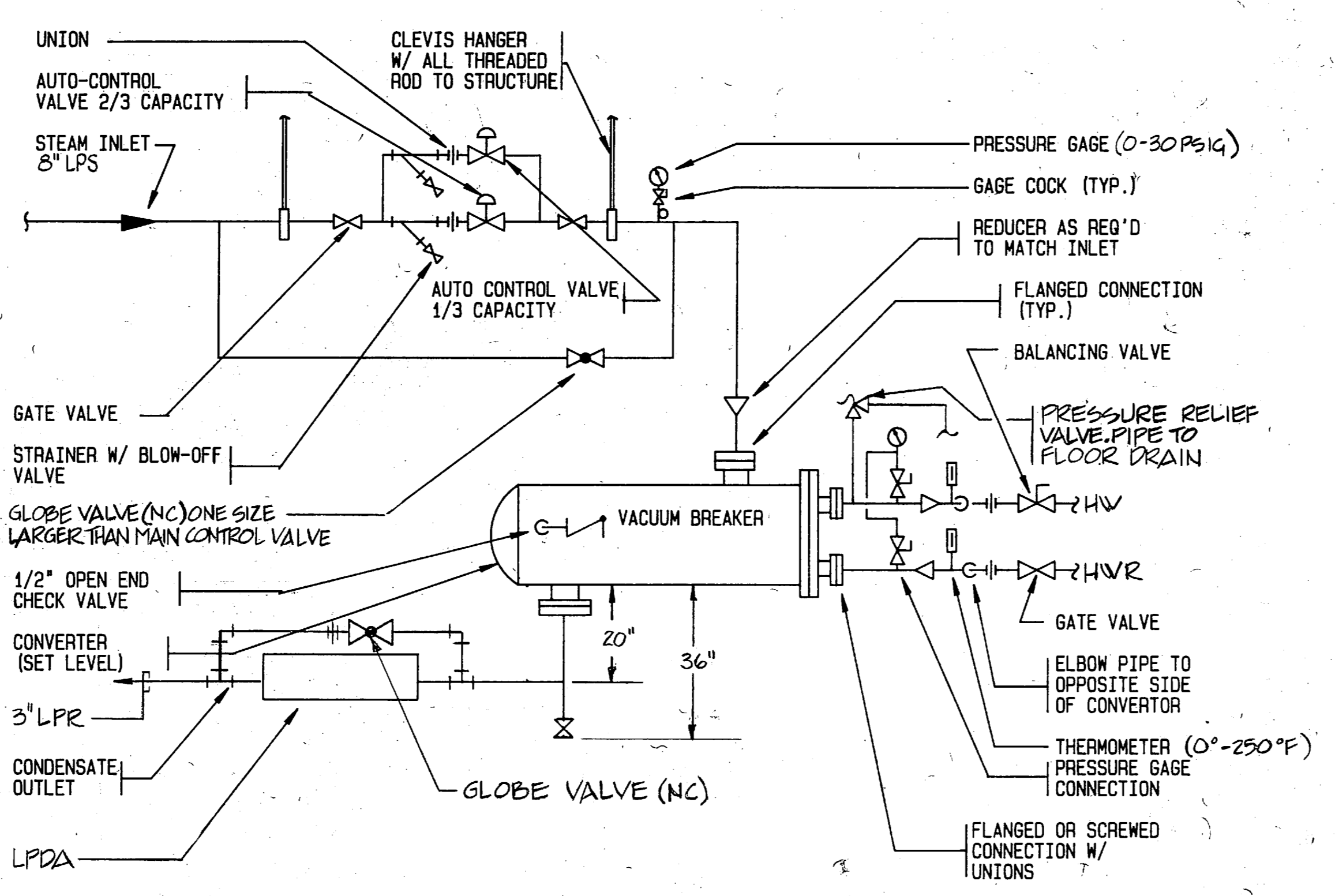
D BASE MOUNTED PUMP
NO SCALE



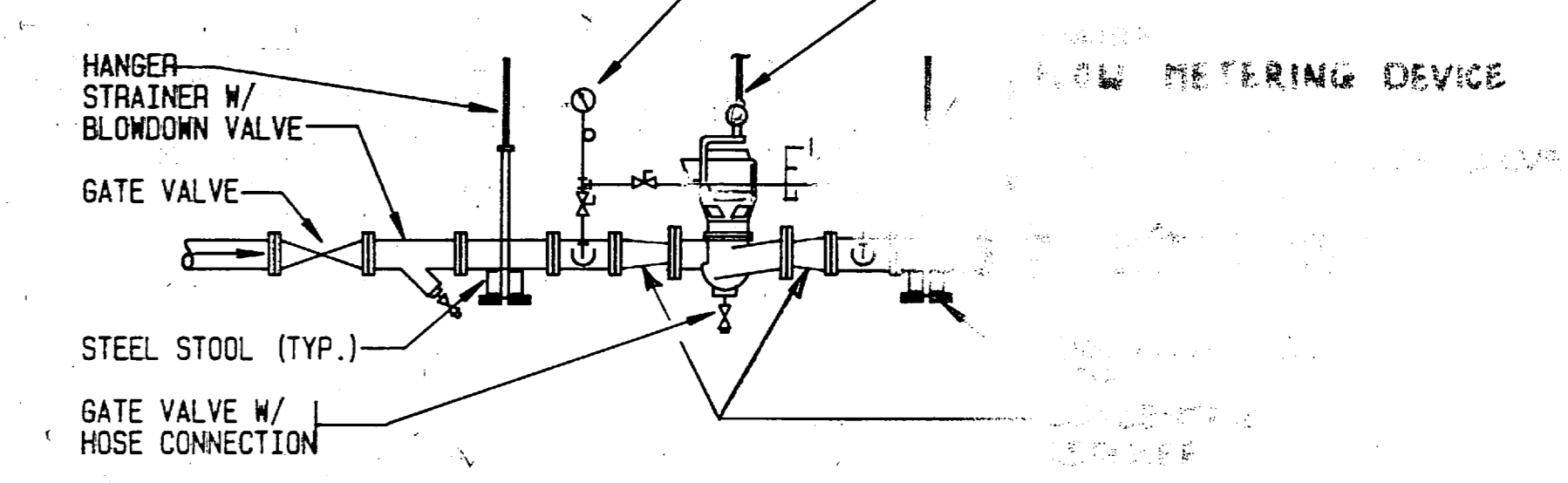
E BASE MOUNTED PUMP
NO SCALE



F HOT WATER UNIT HEATER PIPING DETAIL
NO SCALE



G STEAM TO HOT WATER CONVERTOR
NO SCALE

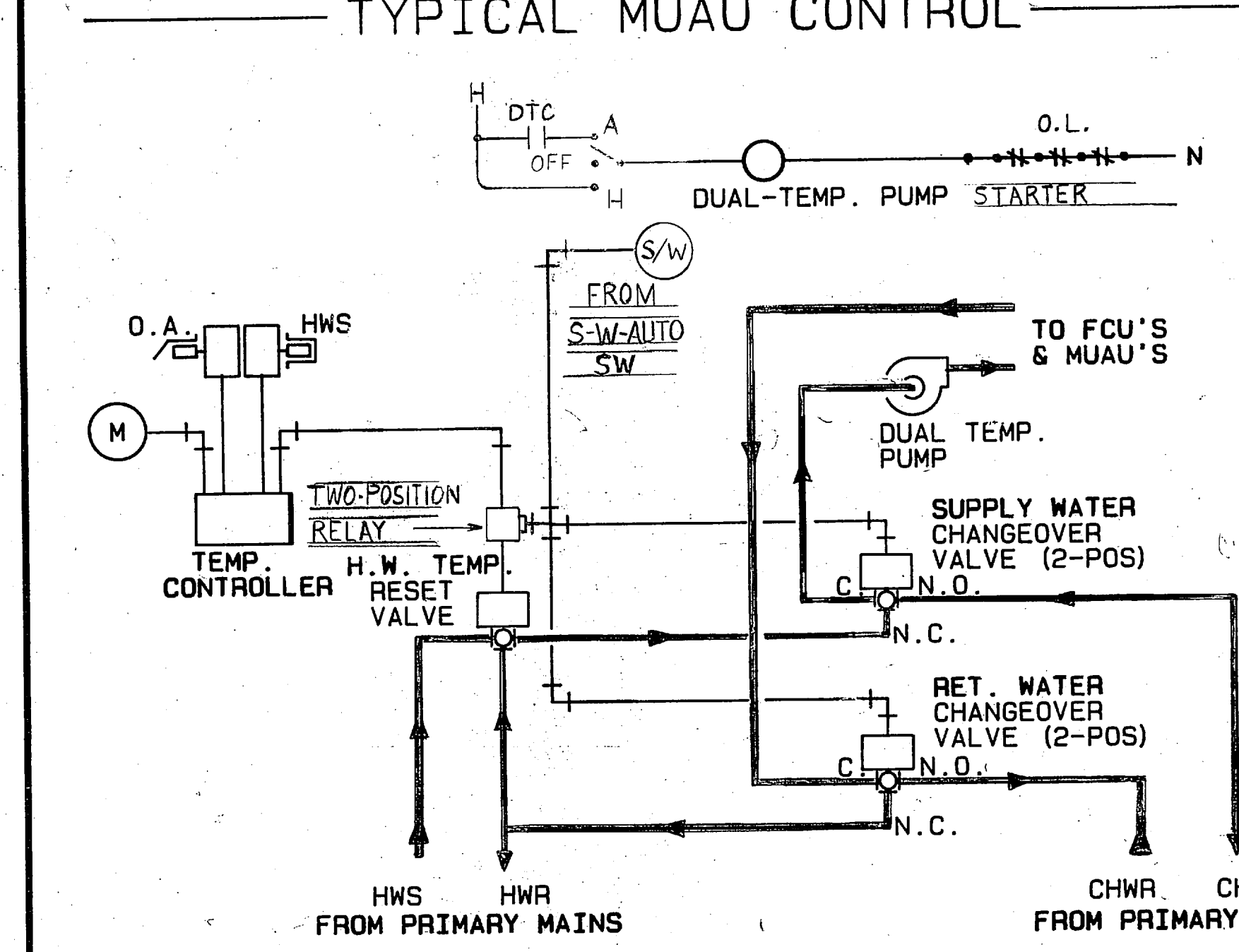
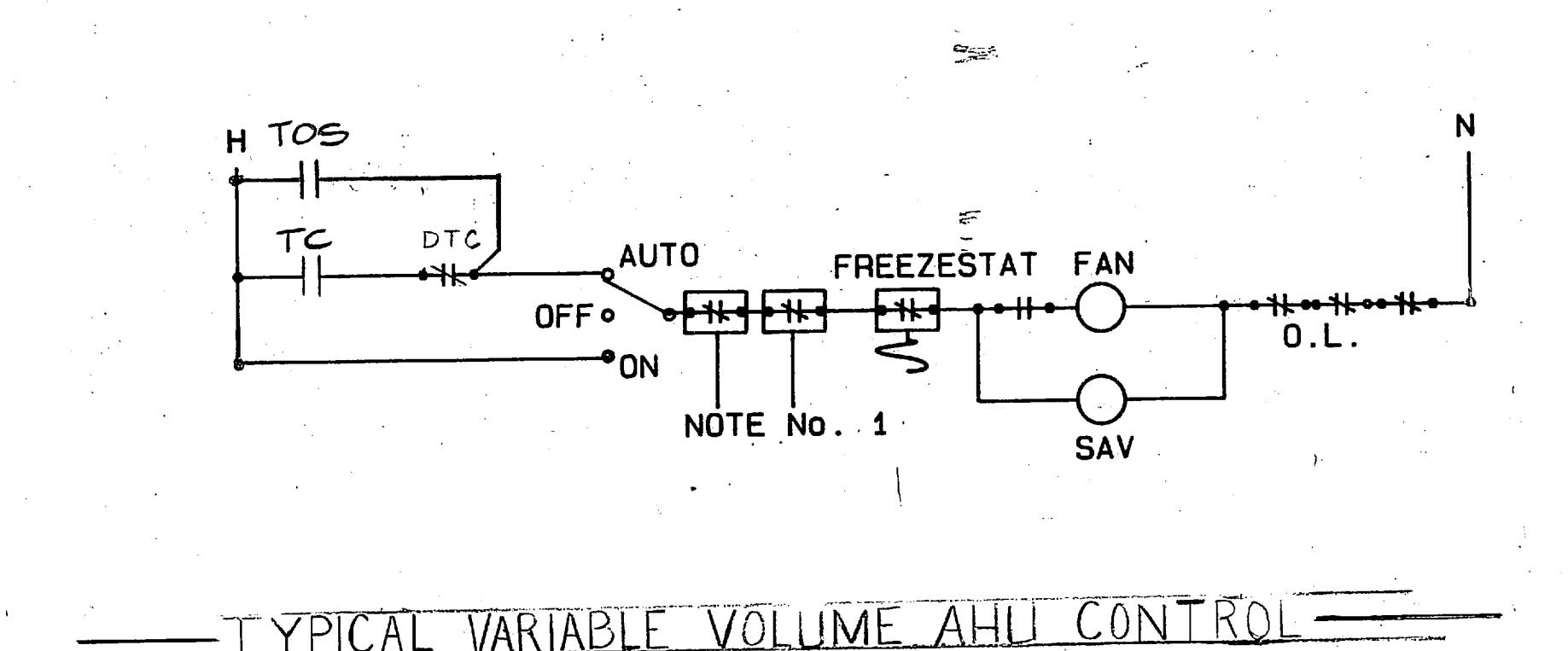
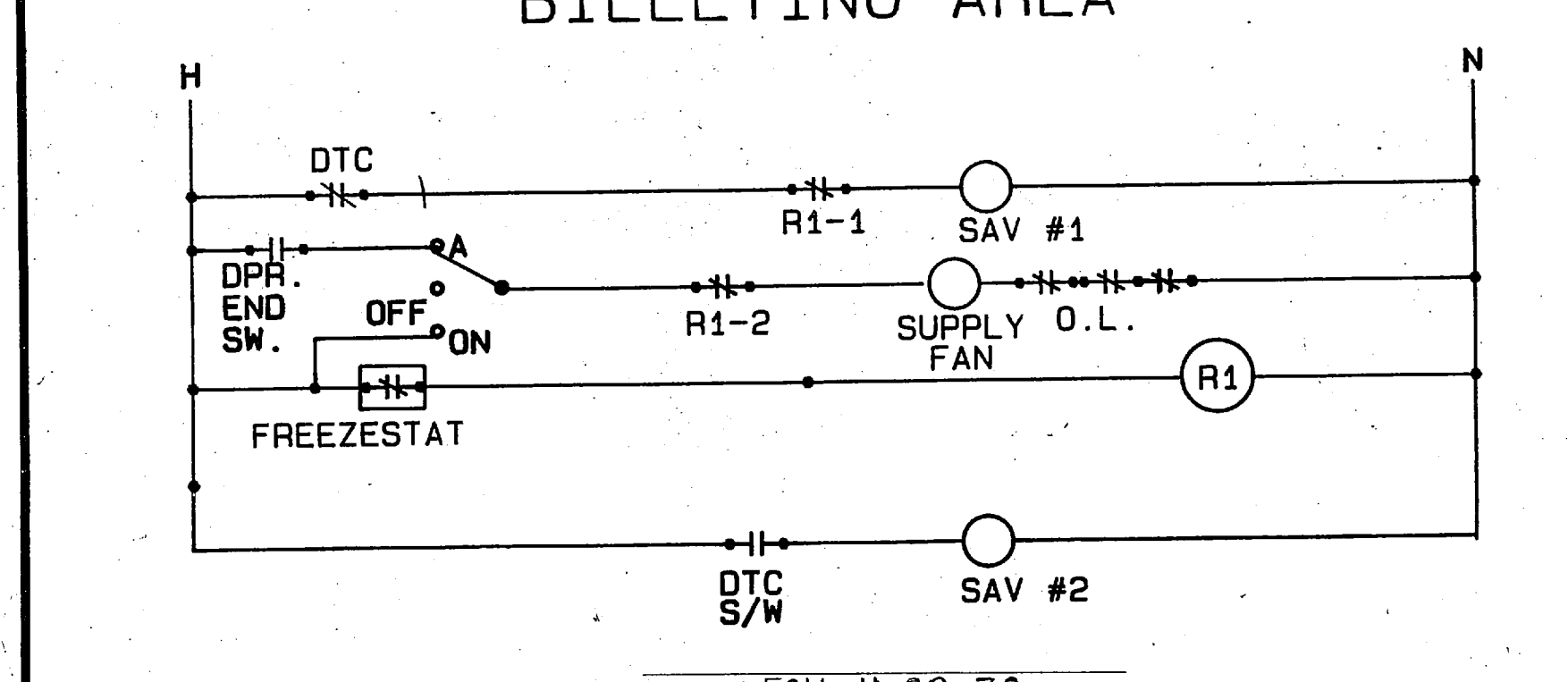
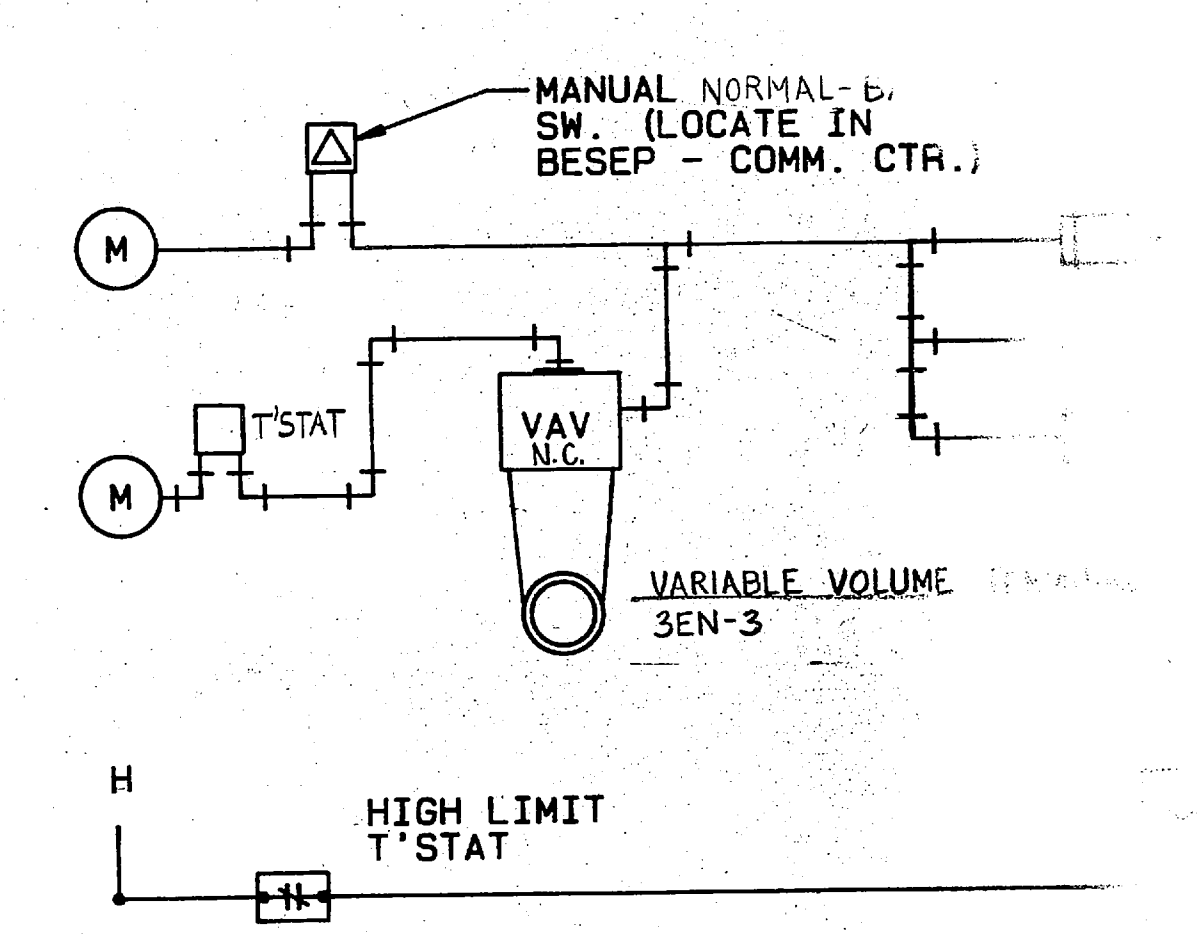
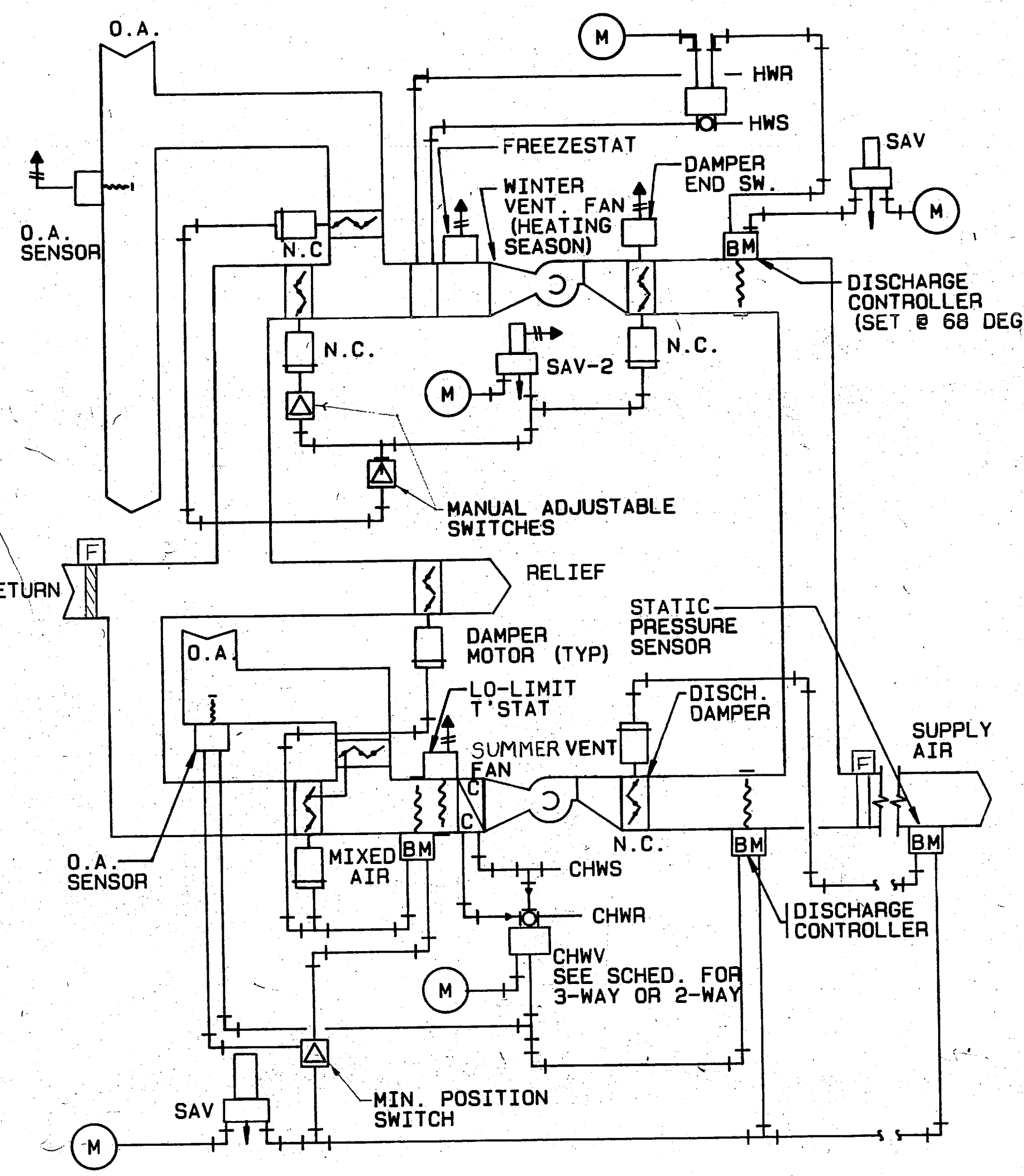
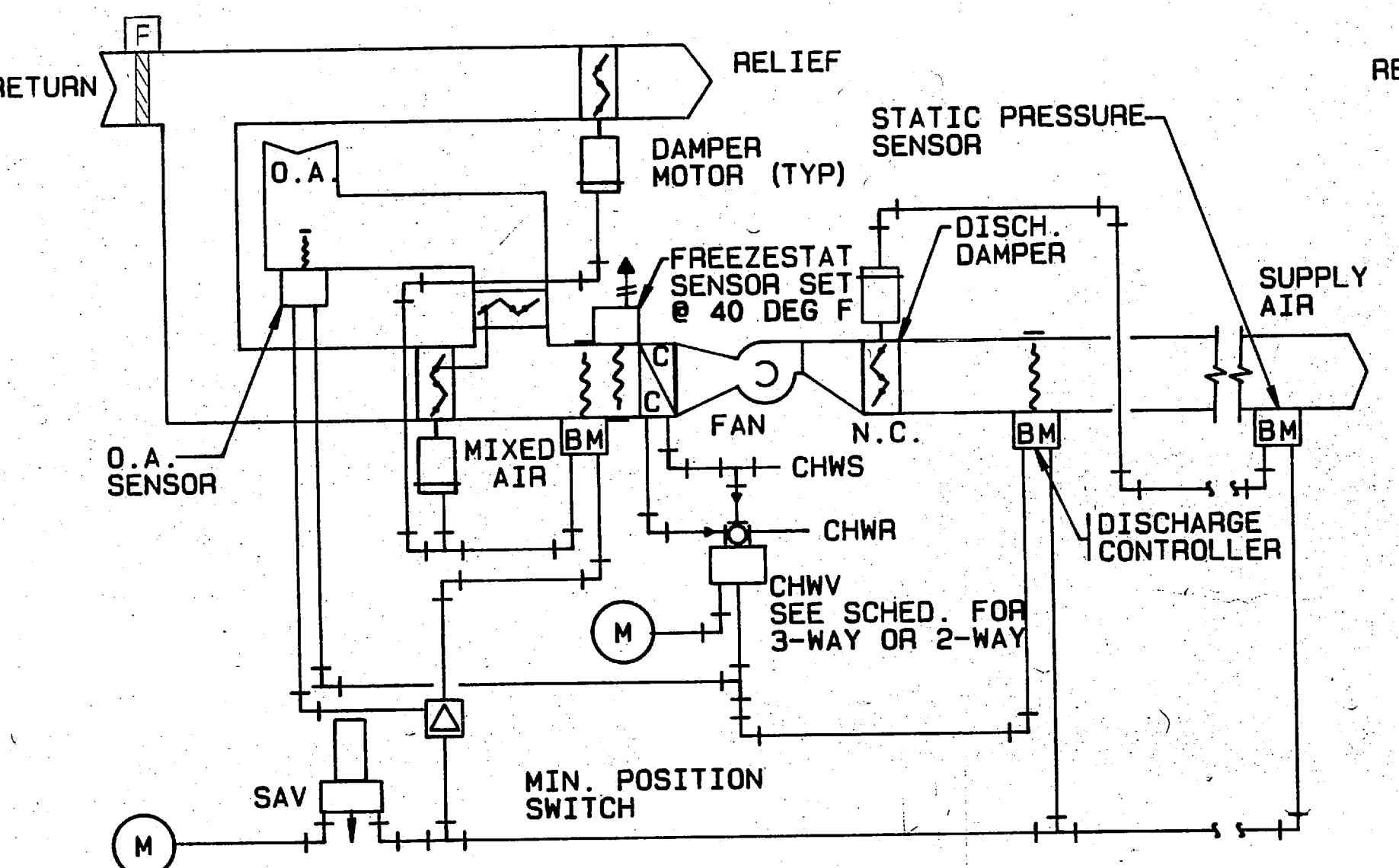
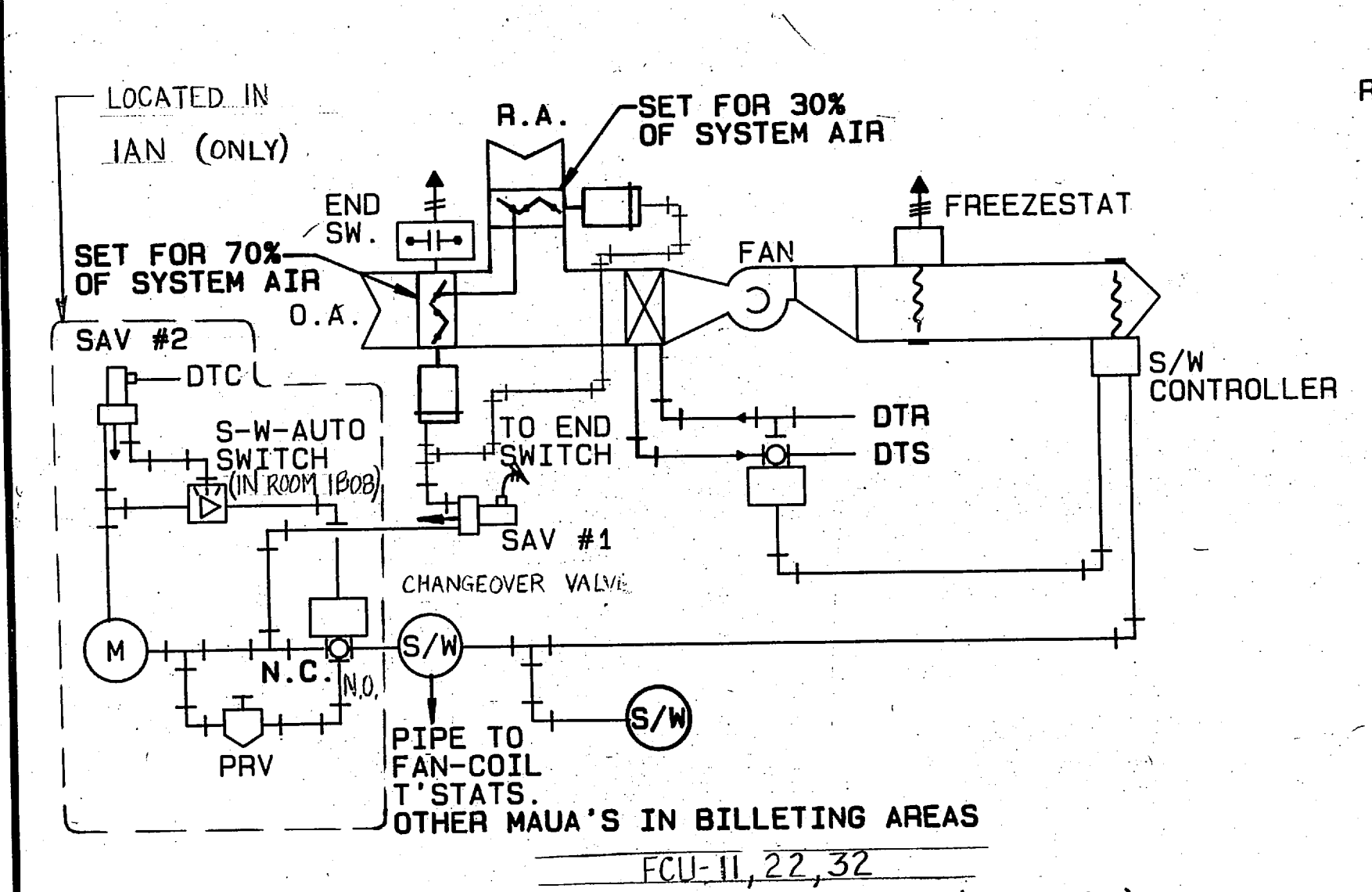
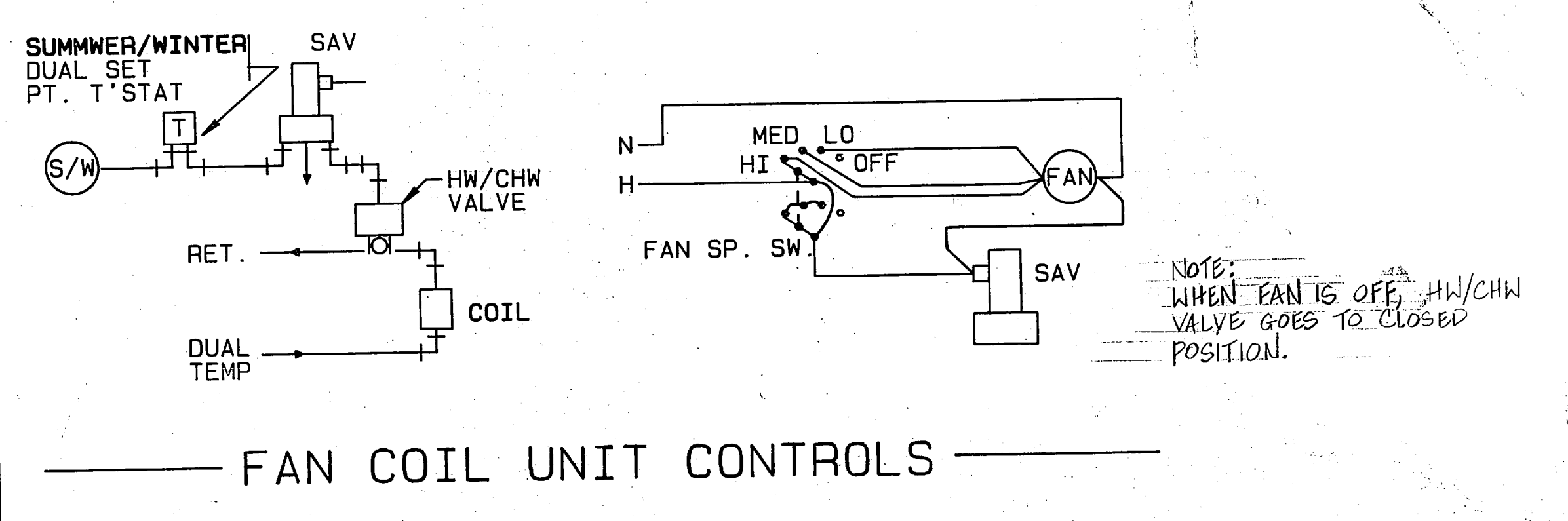


H INLINE PUMP DETAIL
NO SCALE

11-34

PEREBE, WALTERS & ASSOCIATES ARCHITECTS 100 S. W. 10th St. CHARLOTTE, N.C. 28202	
PREPARED BY H. S. ...	CHECKED BY ...
DATE ...	DRAWING NO. ...
PROJECT NO. ...	SHEET NO. ...
APPROVED BY ...	OFFICE IN CHARGE ...

CONVE... DIVISION



- (AC-1) AIR CONDITIONING FOR BESEP-COMM
- NOTES**
1. FURNISH FIRESTATS AS SHOWN.
 2. THERE SHALL BE ONLY FIRESTATS FOR (NO SMOKE DETECTORS).
 3. THE CONTROL DIAGRAM AND SPECIFICATIONS TO PROGRAM EQUIPMENT "ON" OR "OFF" BASED ON OUTSIDE OR OTHER AIR WIND SPEEDS SHALL NOT BE OTHER THAN CLOCK CONTACTS SHALL BE CONTACTS TO PROGRAM THE EQUI.
 4. SECONDARY CHILLED WATER PUMP (P-0-66) THE SUMMER AND WINTER SEASON: WHERE SECONDARY PUMPS SHALL ONLY RUN IN CHILLED WATER PUMPS SHALL INTERLOCK PUMP (SUMMER OR WINTER).
 5. THE PRIMARY HOT WATER PUMP SHALL RUN AT 60°F AND BELOW AND DOES NOT RUN WITH SECONDARY PUMPS.

M-35

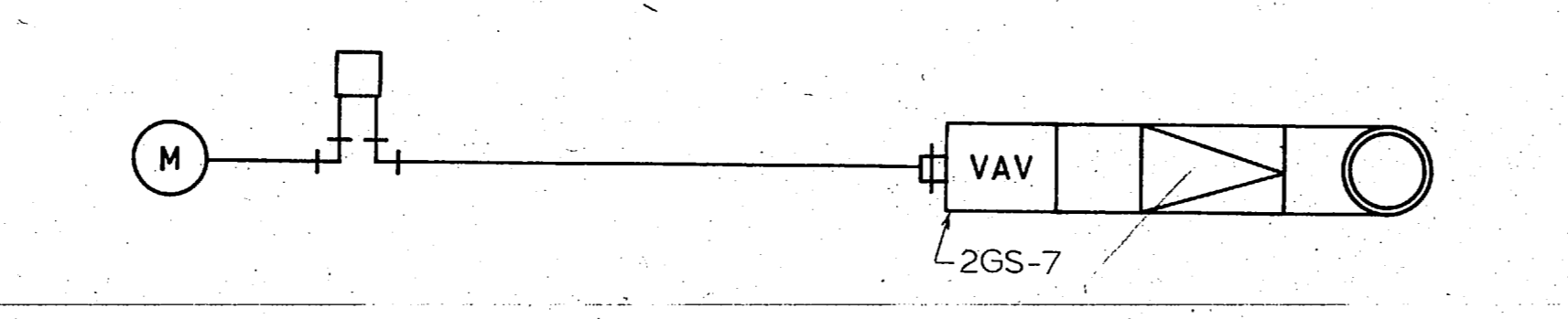
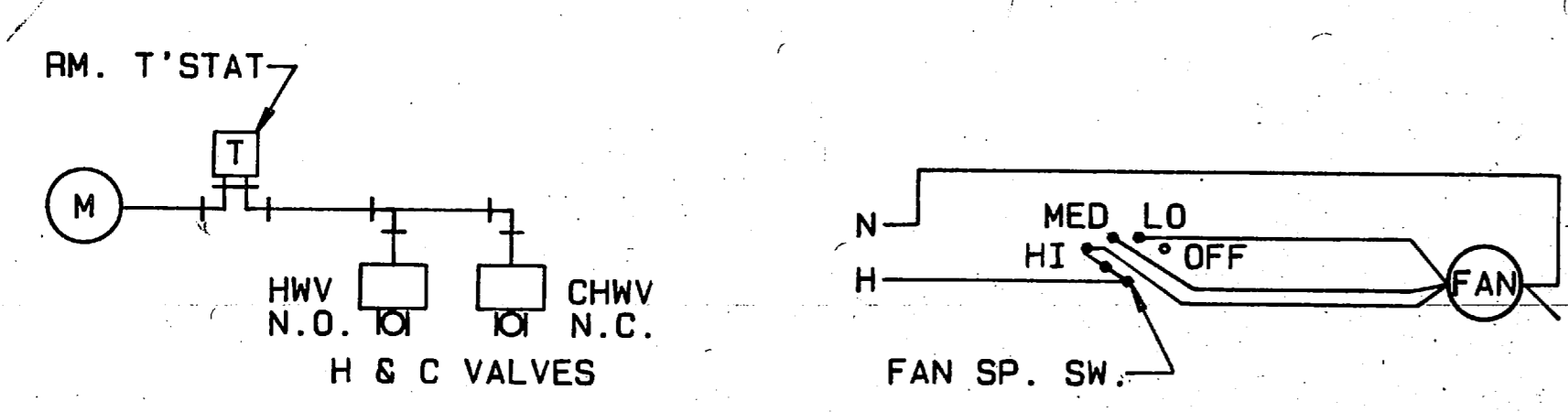
FEREBEE, WALTERS & ASSOCIATES
ARCHITECTURE PLANNING INTERIORS
CHARLOTTE NORTH CAROLINA

DATE: 11/15/88
BY: [Signature]
CHECKED: [Signature]
DESIGNED: [Signature]
DRAWN: [Signature]
PROJECT: [Signature]
SCALE: [Signature]
NO. [Signature] OR [Signature]
APPROVED: [Signature] DATE: 11/15/88
FOR USE FOR COMMANDER: [Signature]

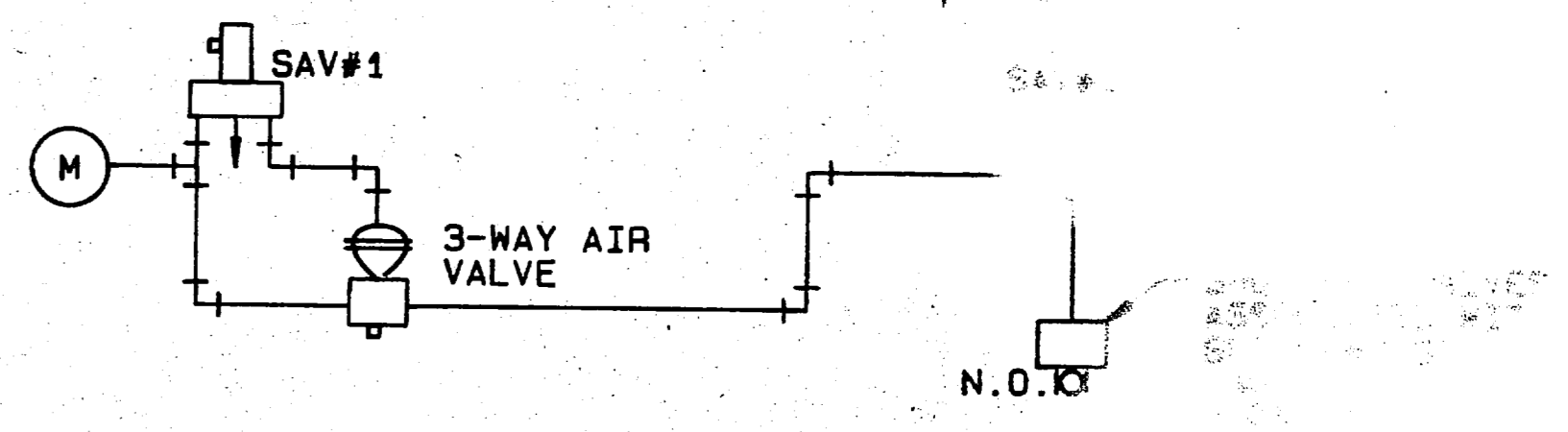
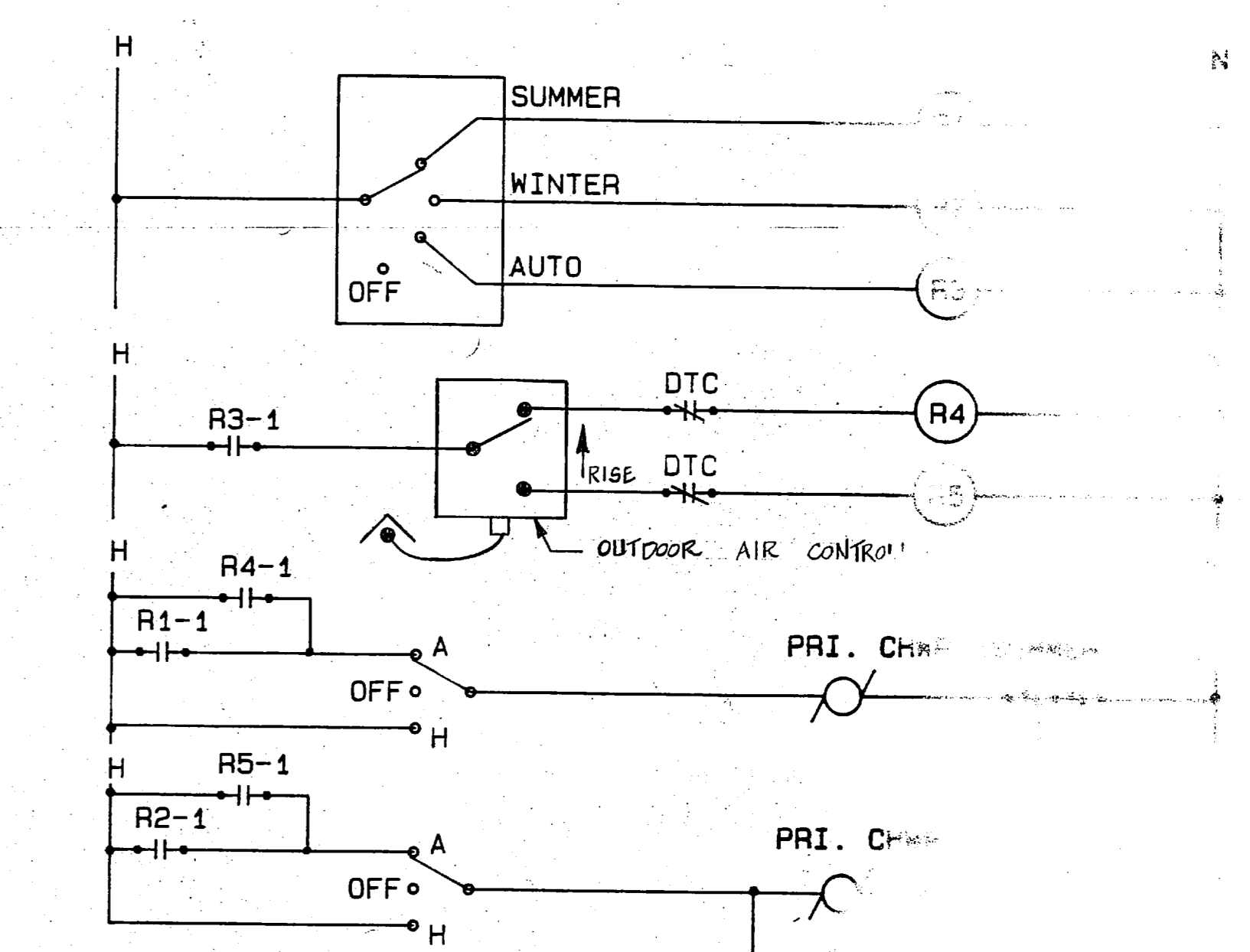
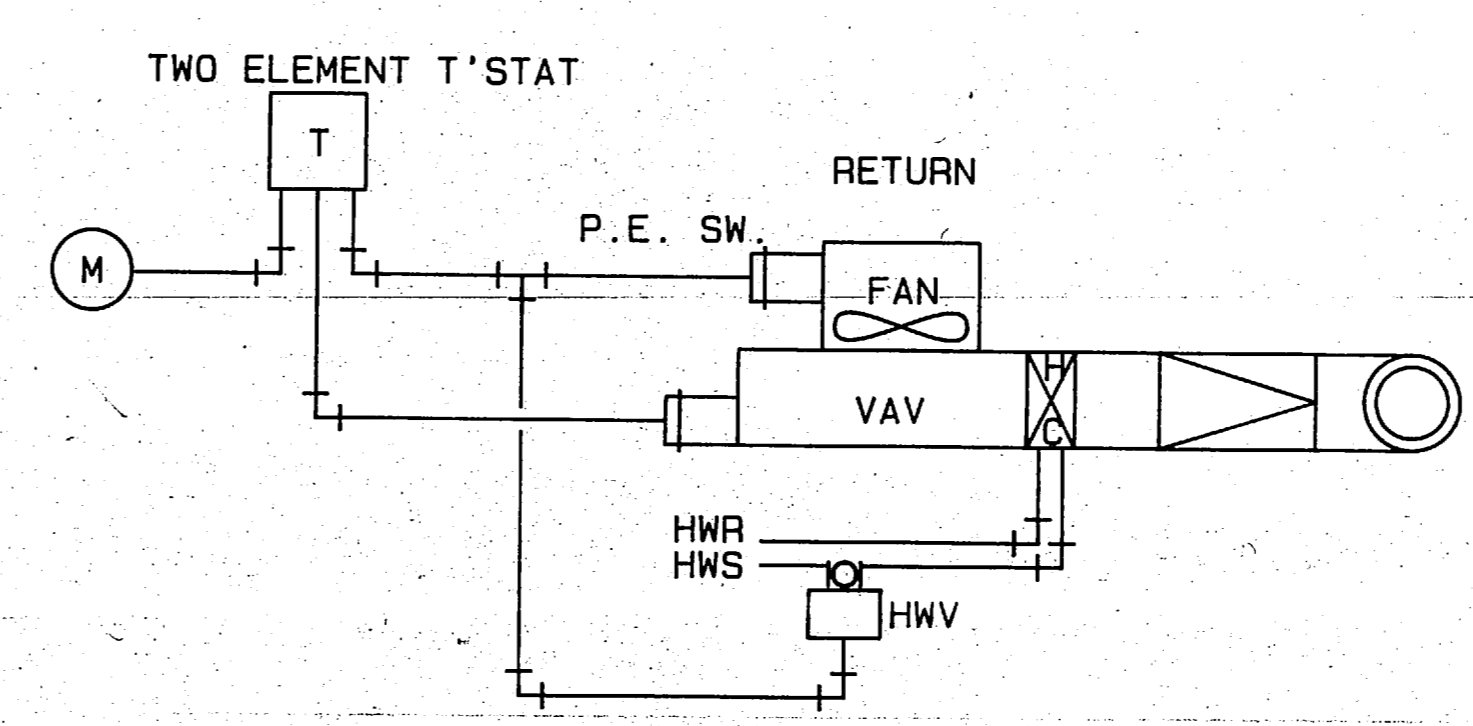
SEAL OF NORTH CAROLINA PROFESSIONAL ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF CONSTRUCTION
MEASUREMENT AND ESTIMATION

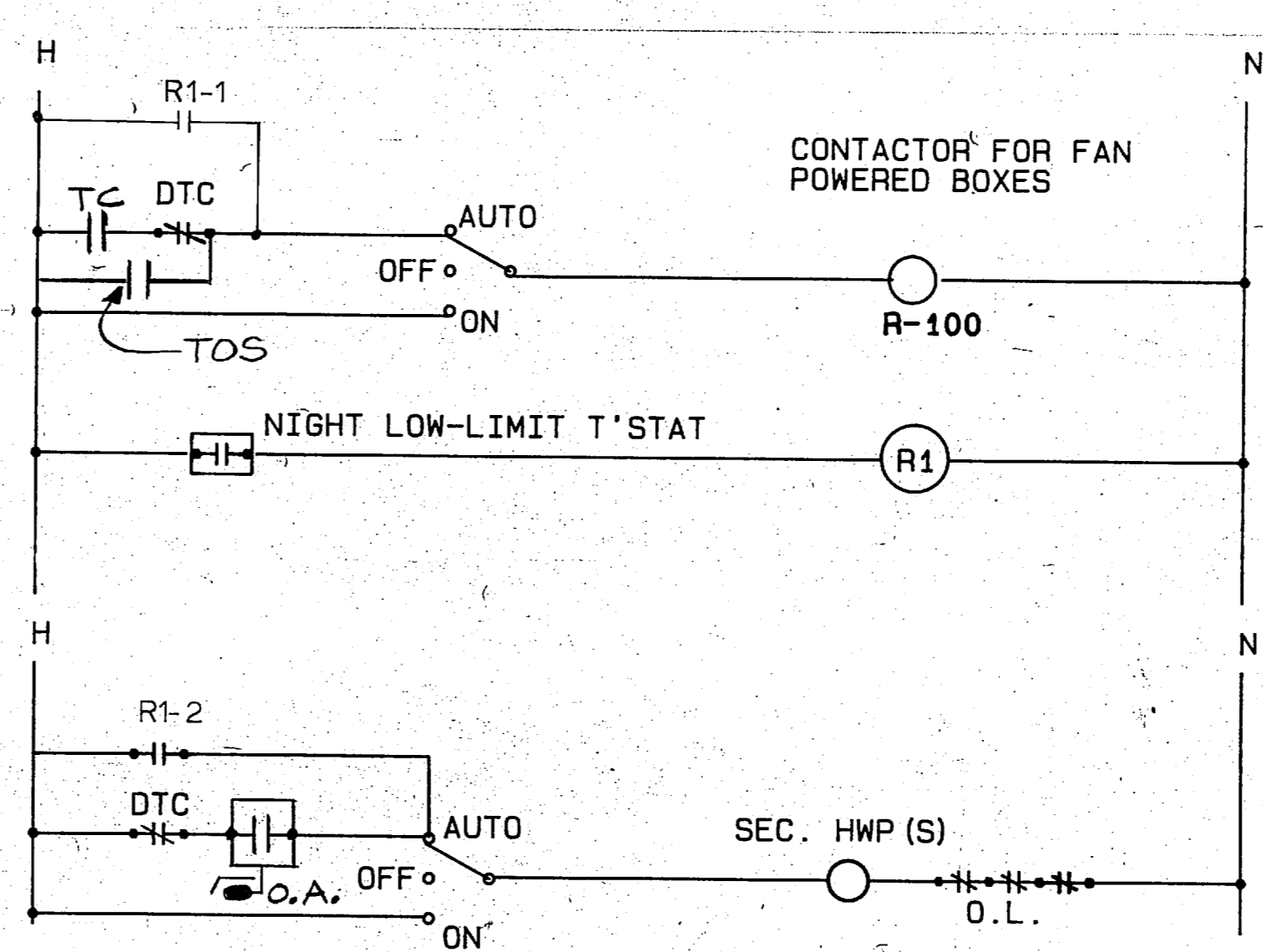
GENERAL REV



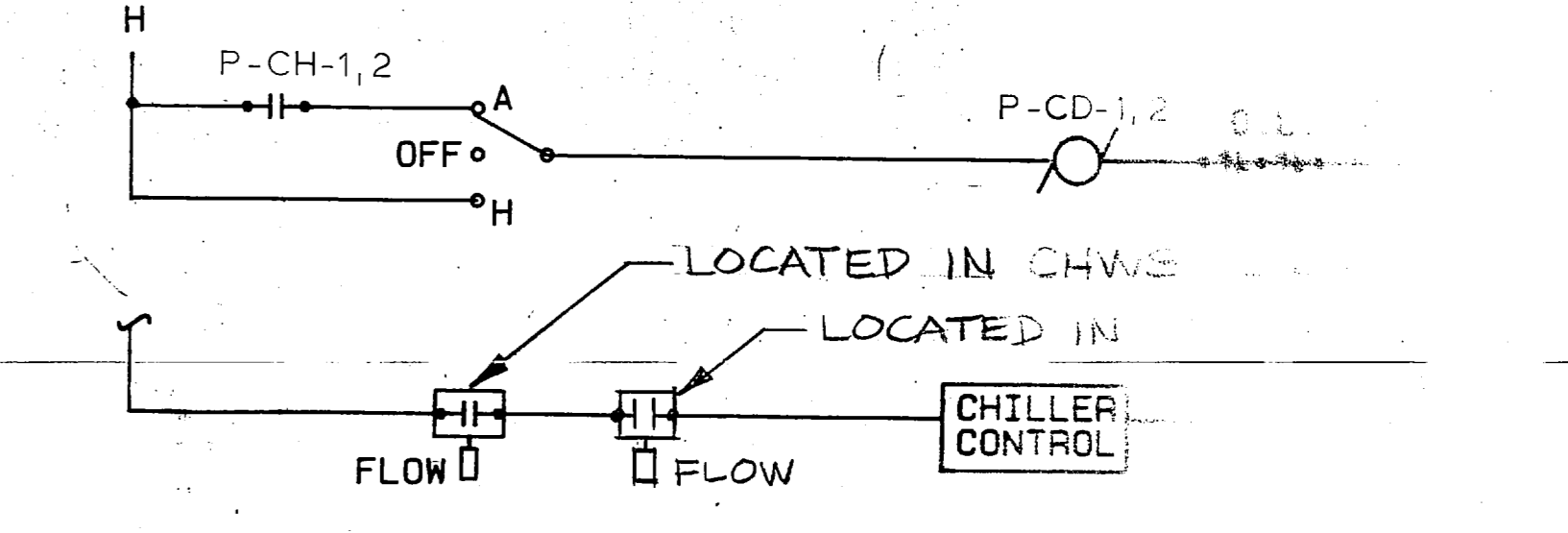
SUPPLEMENTAL/ BACK-UP COOLING FOR COMPUTER RM. A.C. UNIT (AC-2) SSO/SSCT AREA



PRIMARY CHWP CO

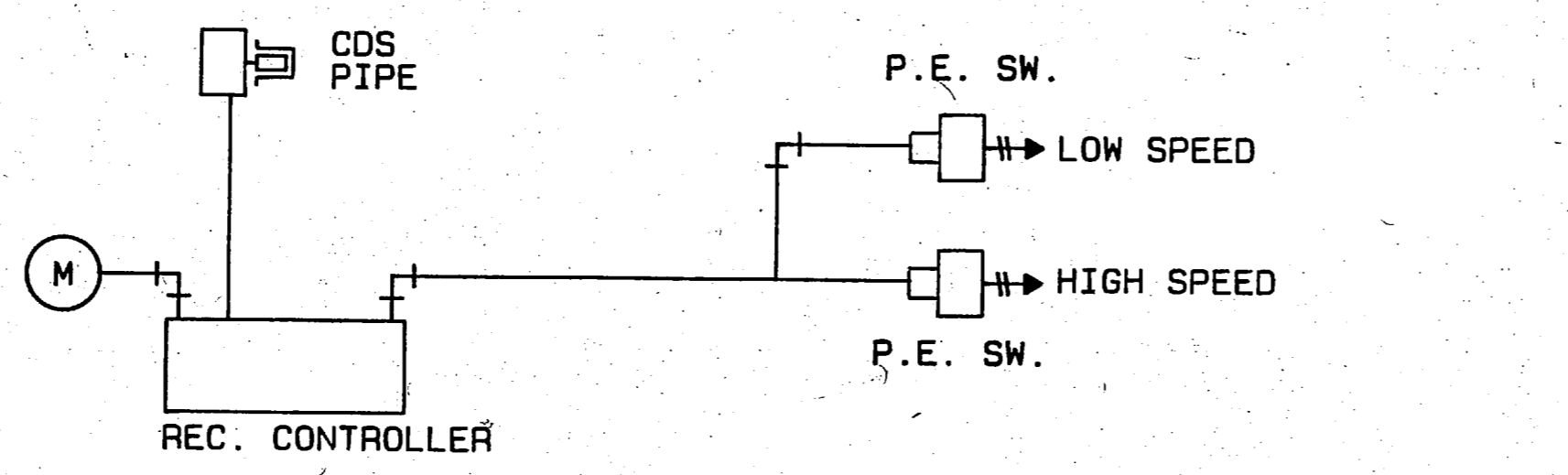
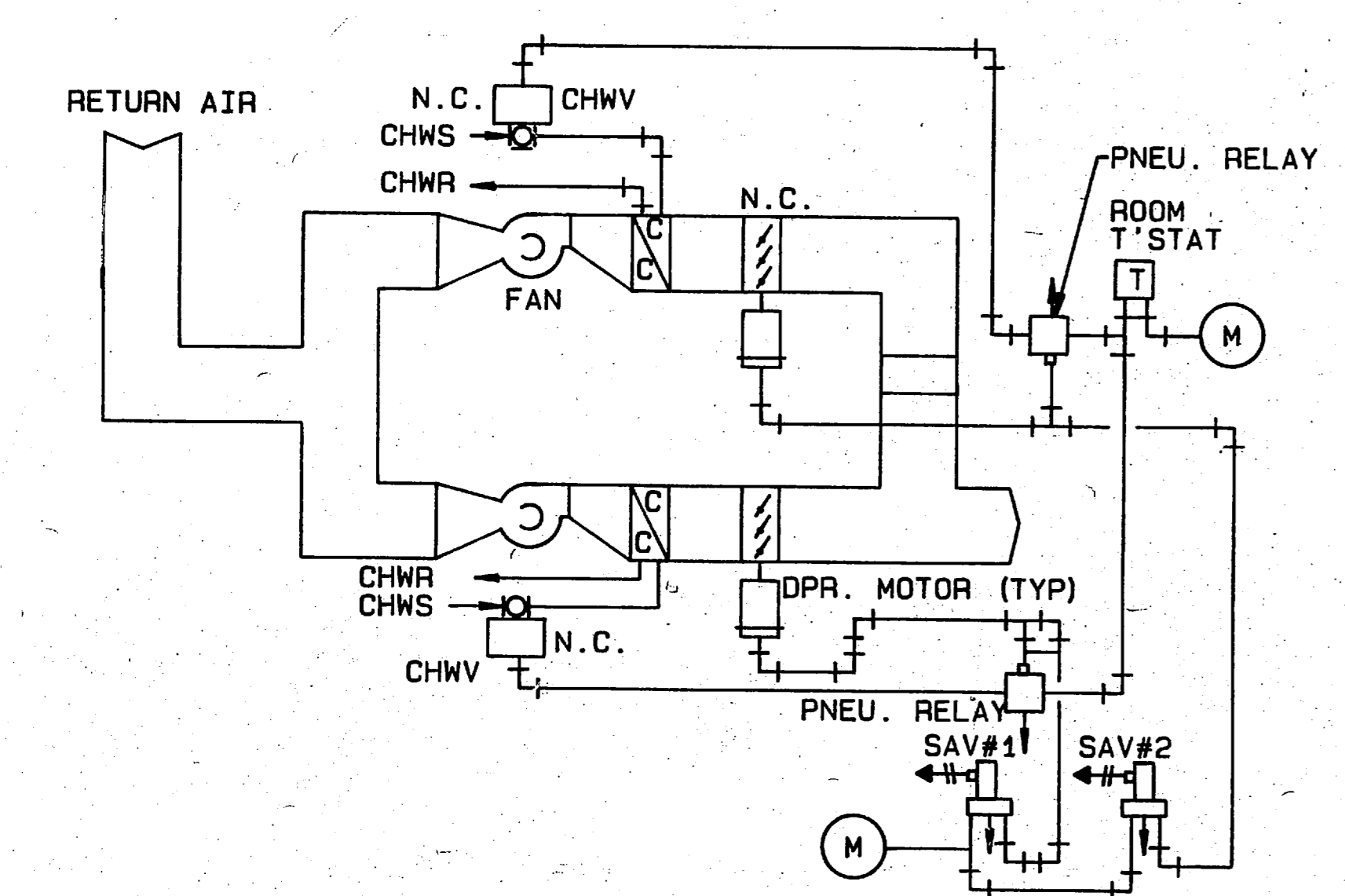


TYPICAL FAN POWERED BOX & SEC PUMP ZONE CONTROL

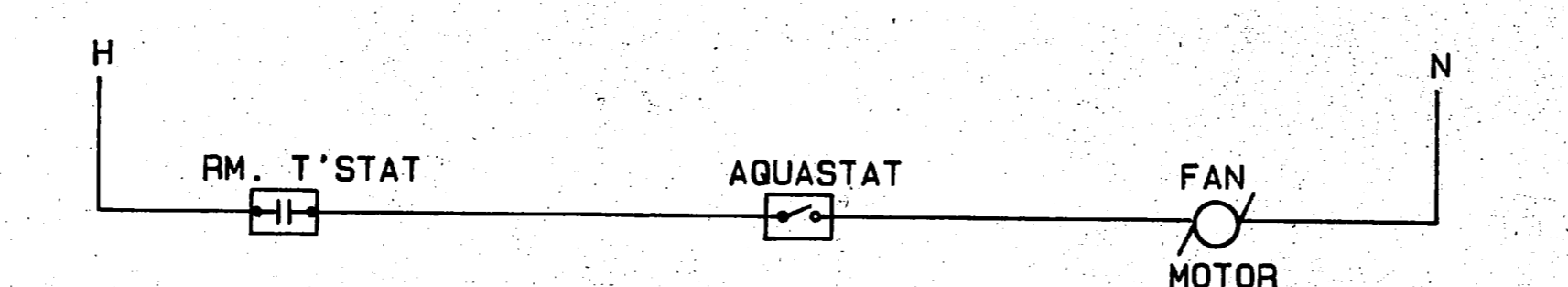


TYPICAL CWP/CHILLER INTERF

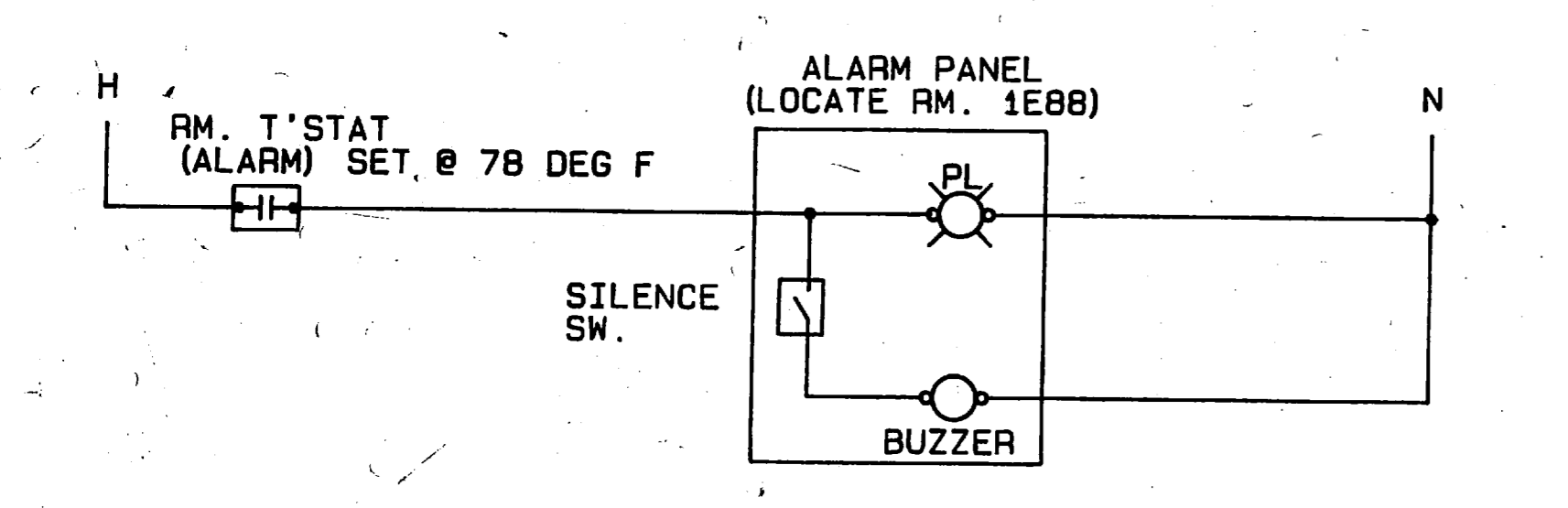
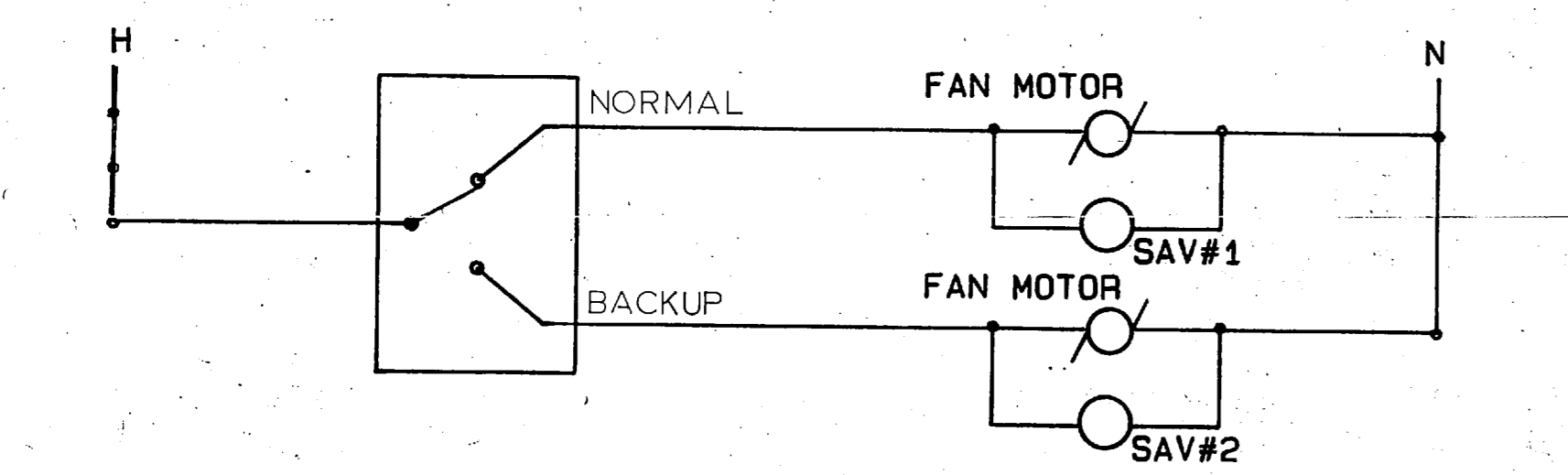
FAN-COIL UNIT CONTROL FOR: CANTEEN



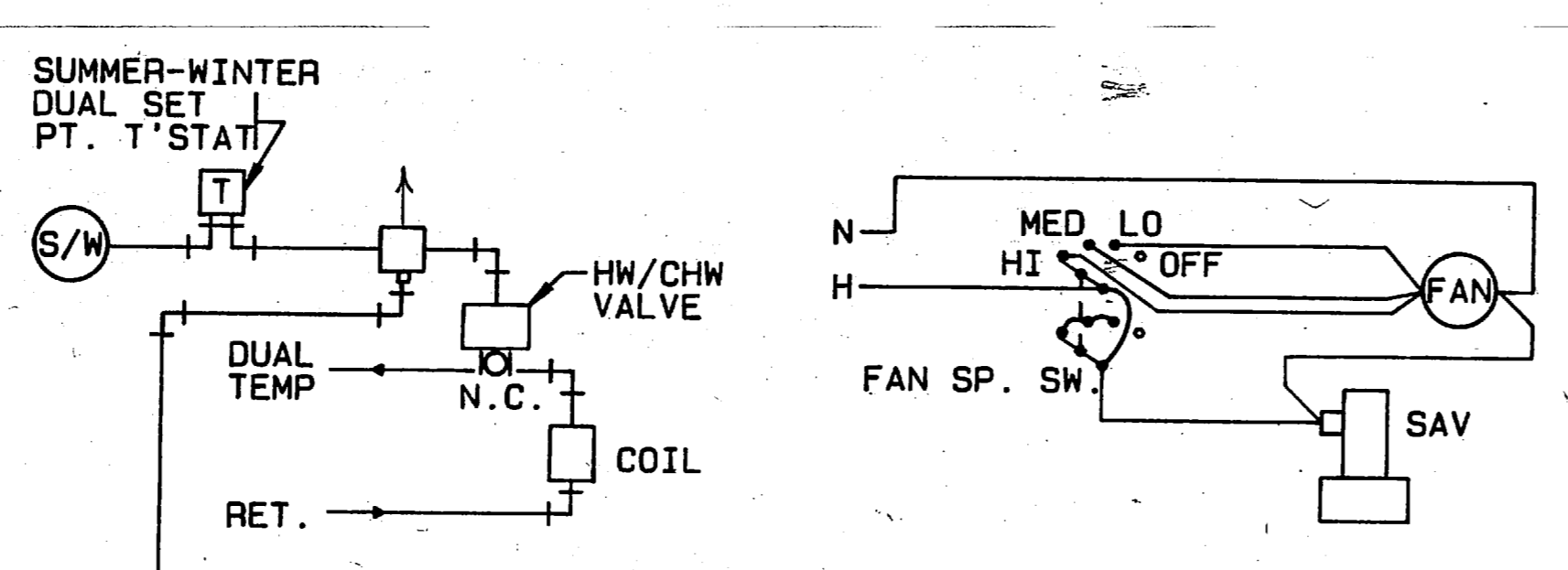
(CT-1, CT-2) TOWER FAN CONTROL (TYPICAL FOR 2)



U.H. CONTROL

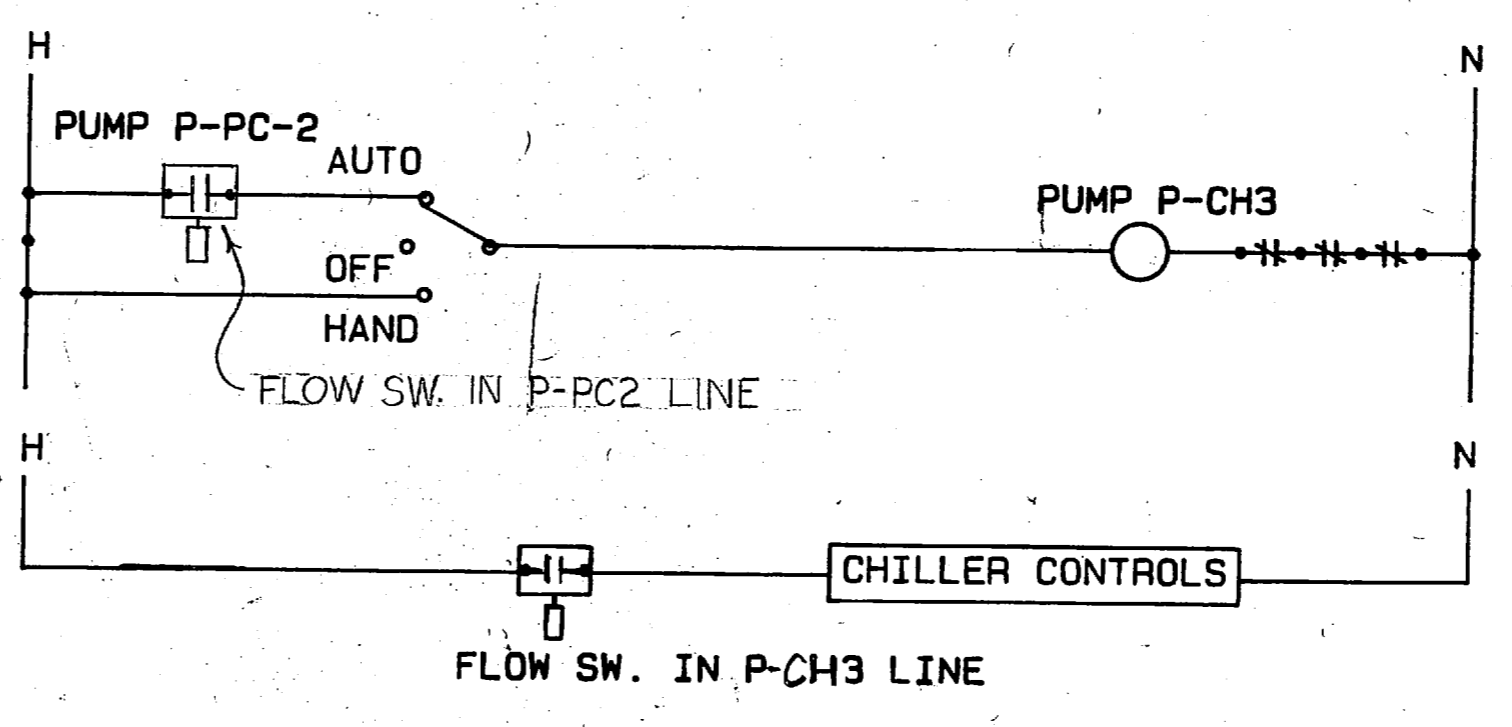


(AHU-1EST) TELEPHONE EQUIPMENT RM. UNITS

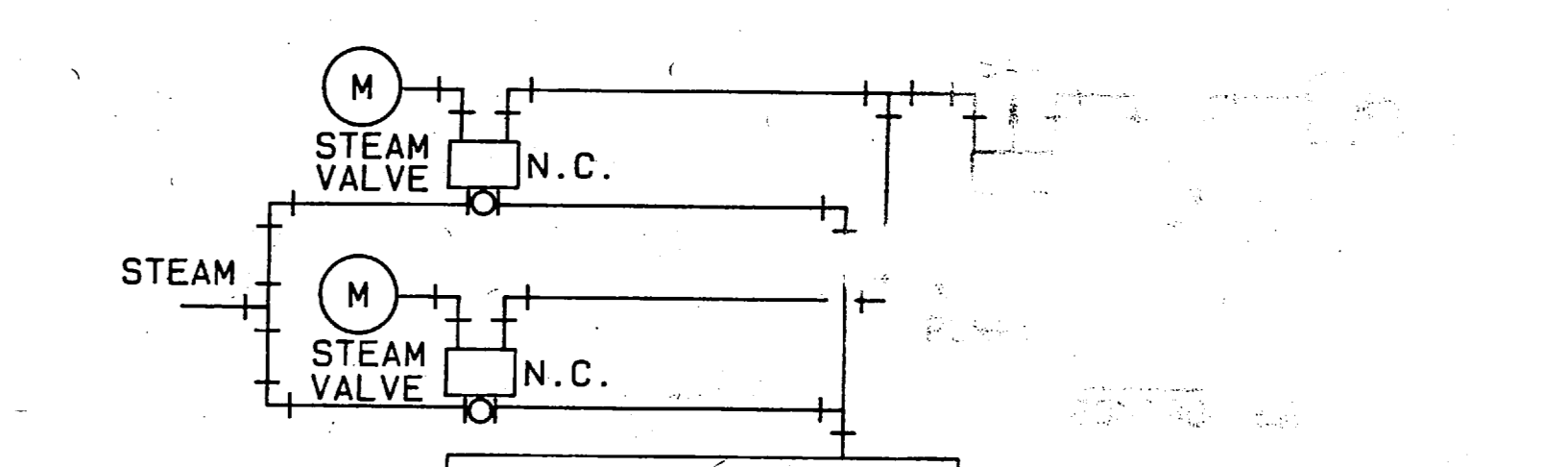


TYPICAL F.C.U. 8,9 CONTROL

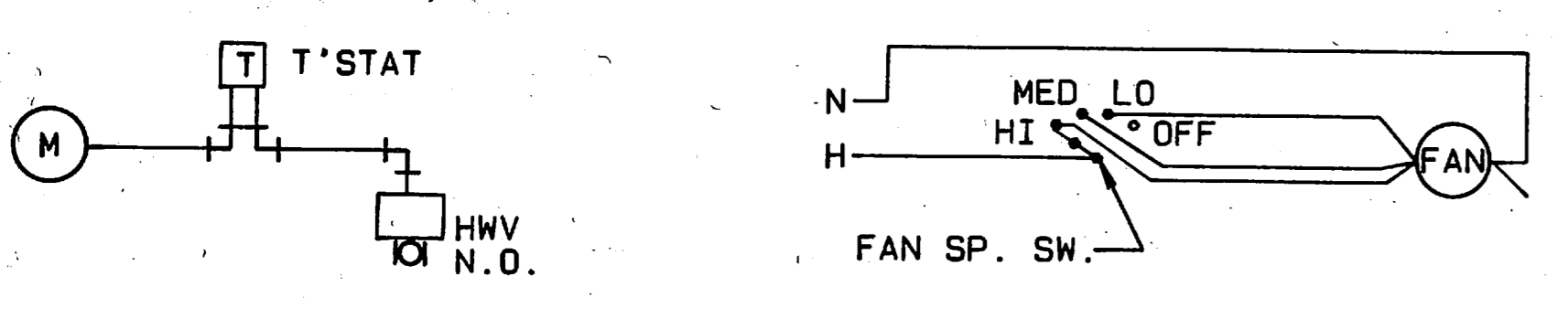
SECONDARY CHWP CONTROL



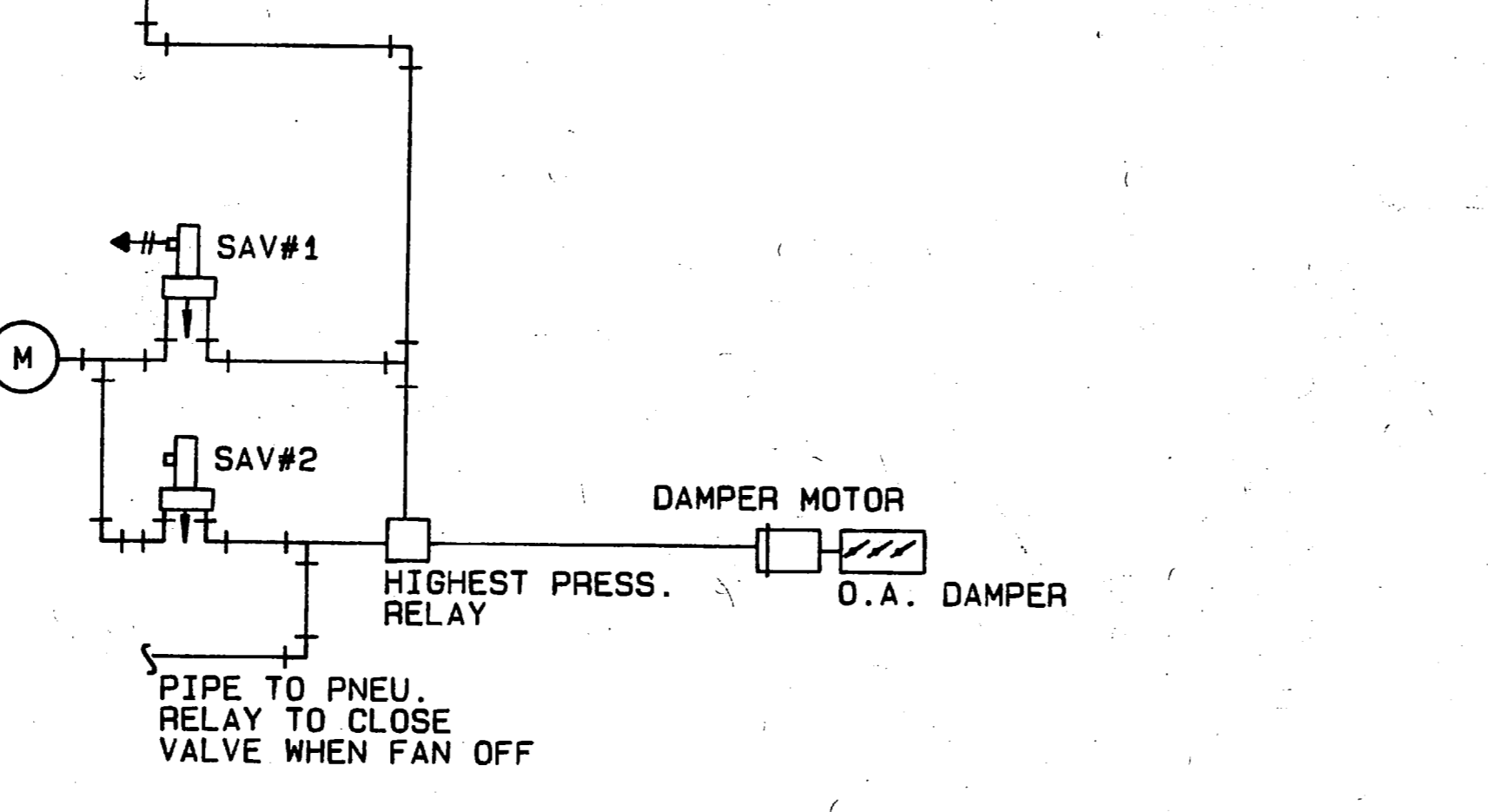
AIR COOLED CHILLER INTERLOCK



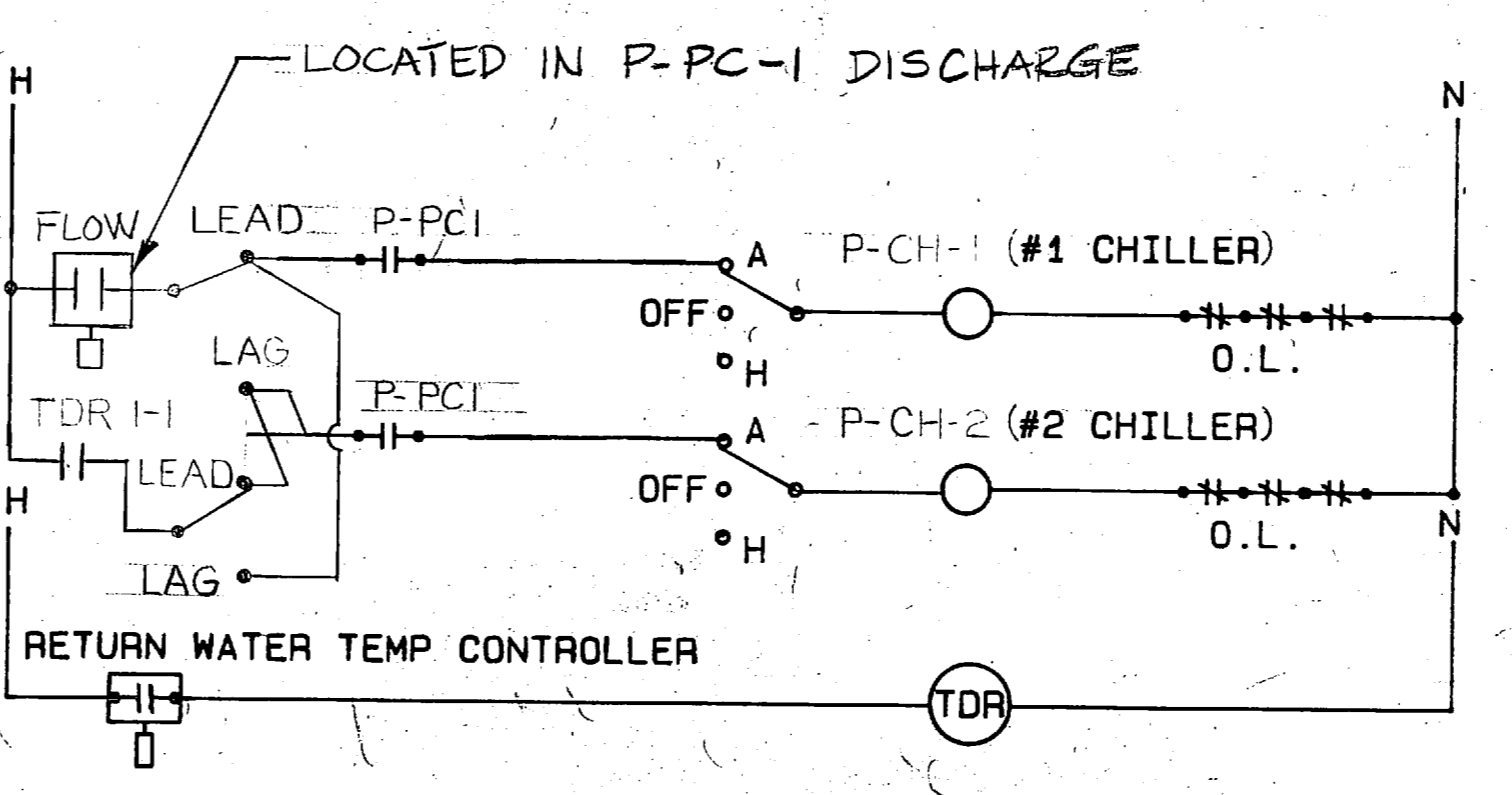
HEAT EXC



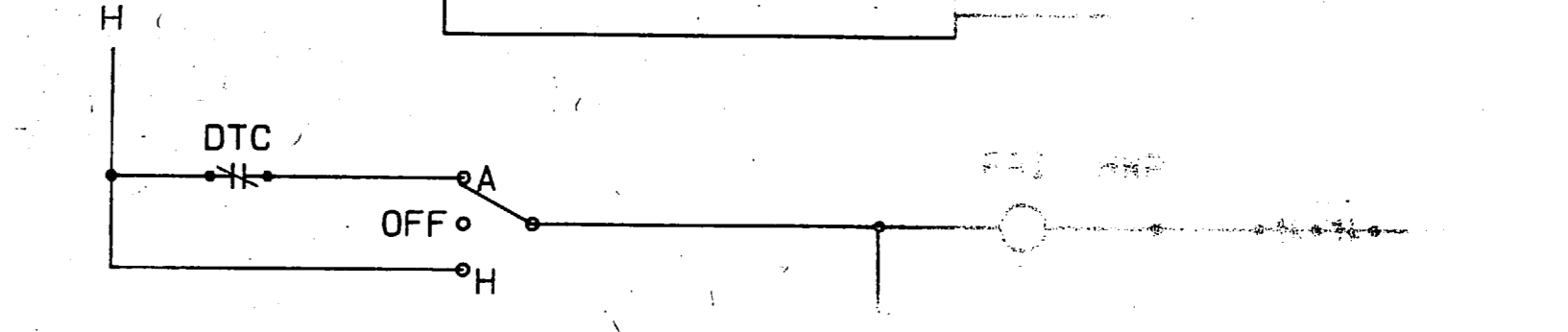
CABINET U.H.'S



-O.A. INTAKE FOR F.C.U.'S No.9 & 10



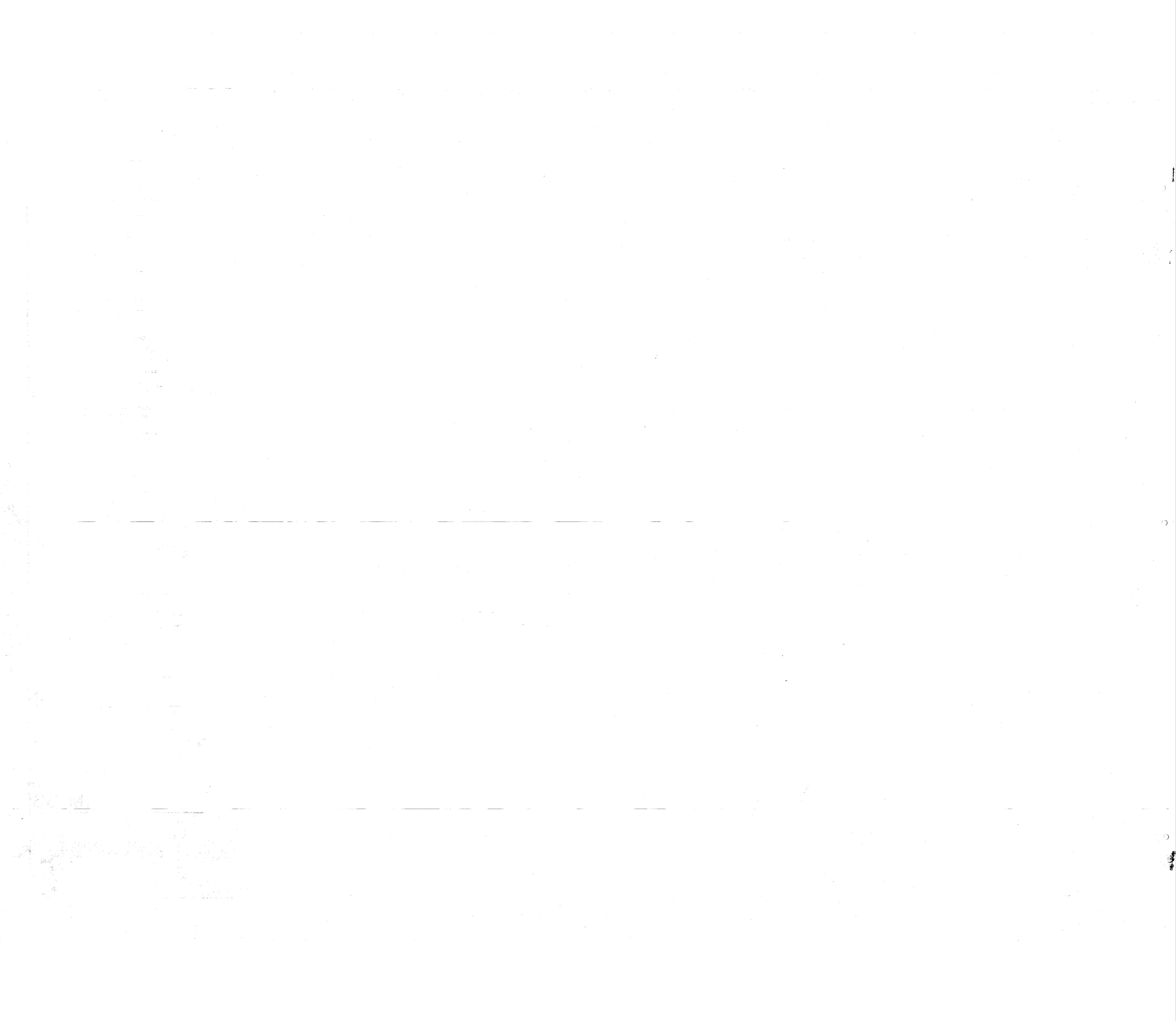
STAGING FOR CHILLERS 1&2

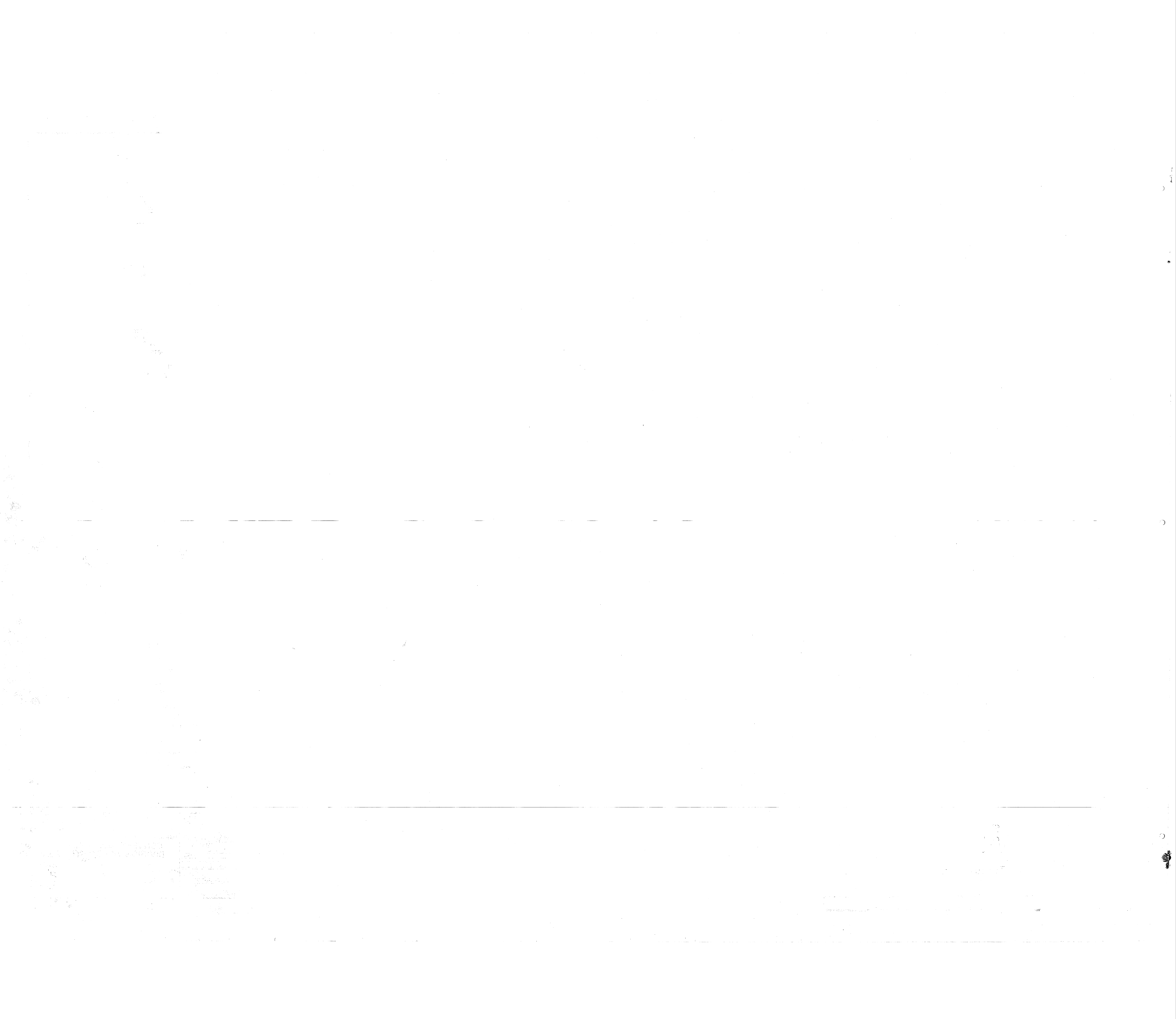


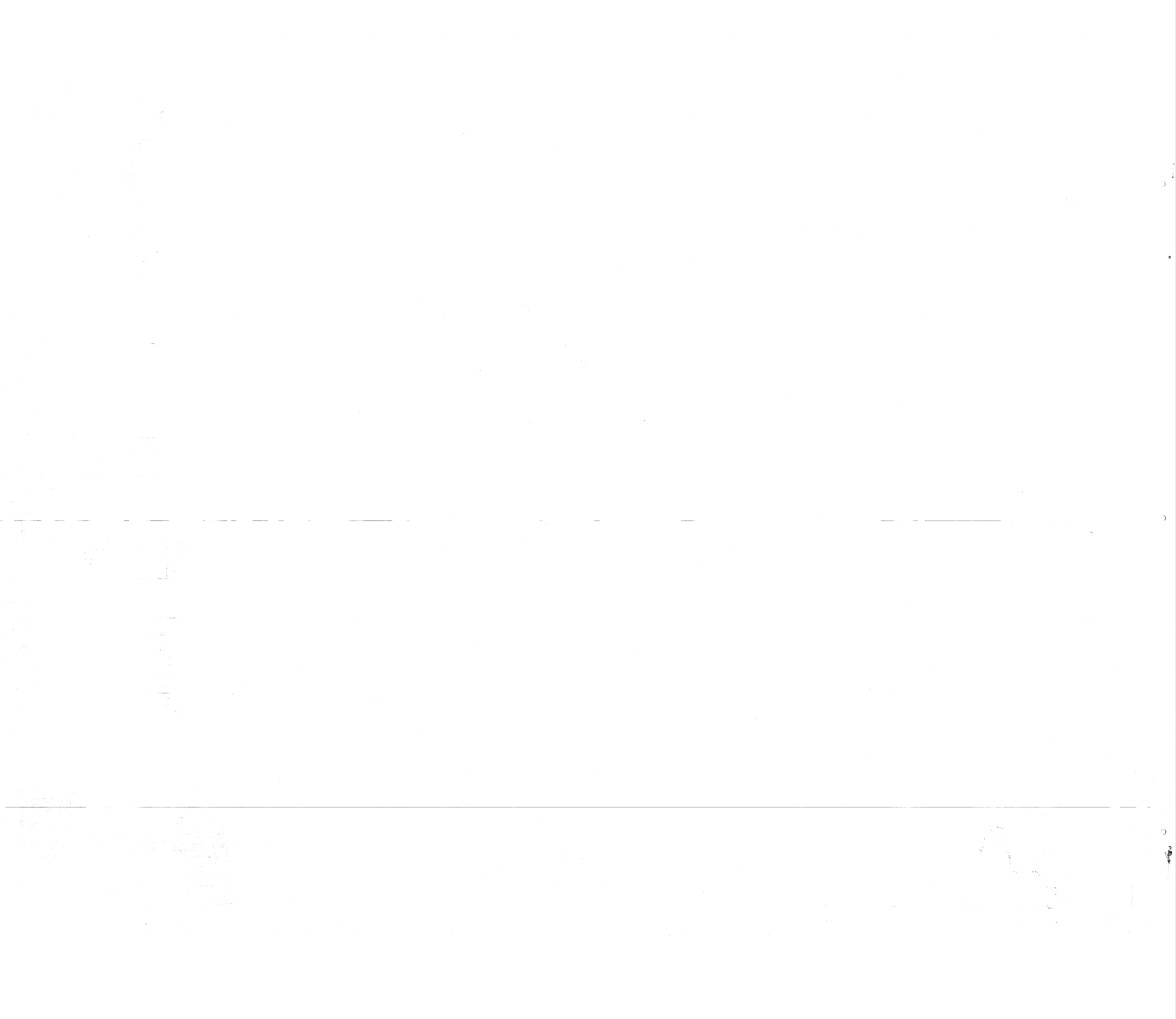
HEAT EXC

M-36

Professional engineering stamp for FEREBEE, WALTERS & ASSOCIATES, ARCHITECTURE, PLANNING, LANDSCAPE DESIGN, INTERIOR DESIGN, CHARLOTTE, NORTH CAROLINA. Includes a signature and date, and the text 'CONVERT HOSPITAL TO DIVISION HEADQUARTERS'.







TERMINAL UNIT SCHEDULE

AREA SERVED	UNIT No.	TAG No.	INLET SIZE	MAX. CFM		MIN. CFM	FAN CFM	HP - ELEC.	HOT WATER		COIL		PIPE CONN.
				ESP	TSP				ROWS	APD	MBH	GPM	
IAS	1	IAS-1	8	721/31	94	550/21	1/4-277/1	1.03	11.9	1.0	0.8	1/2"	
	2	IAS-2	14	230/38	272	1600/35	1/2-277/1	1.12	27.5	1.0	1.0	1/2"	
	3	IAS-3	12	187/37	242	1400/31	1/2-277/1	1.09	31.7	1.5	2.0	1/2"	
	4	IAS-4	12	155/37	146	850/29	1/2-277/1	1.07	20.6	1.0	1.0	1/2"	
IBN	1	IBN-1	12	421/31	156	1070/25	1/2-277/1	1.06	16.3	1.0	1.0	1/2"	
	2	IBN-2	12	421/36	155	1070/28	1/2-277/1	1.06	17.2	1.0	1.0	1/2"	
	3	IBN-3	12	468/36	160	1100/28	1/2-277/1	1.06	22.3	1.0	1.0	1/2"	
	4	IBN-4	8	825/32	90	600/24	1/4-277/1	1.05	12.6	1.0	0.8	1/2"	
	5	IBN-5	14	201/30	222	1520/28	1/2-277/1	1.09	14.6	1.0	1.0	1/2"	
	6	IBN-6	8	817/32	89	610/24	1/4-277/1	1.04	11.2	1.0	0.8	1/2"	
	7	IBN-7	10	764/32	105	720/25	1/4-277/1	1.05	12.4	1.0	0.8	1/2"	
	8	IBN-8	14	230/32	221	1520/28	1/2-277/1	1.09	14.6	1.0	1.0	1/2"	
IBS	1	IBS-1	12	1071/32	148	880/23	1/2-277/1	1.04	14.8	1.0	1.0	1/2"	
	2	IBS-2	12	1300/29	204	1120/24	1/2-277/1	1.06	13.0	1.0	1.0	1/2"	
	3	IBS-3	8	825/32	112	680/25	1/4-277/1	1.05	13.1	1.0	0.8	1/2"	
	4	IBS-4	6	515/32	70	310/22	1/4-277/1	1.03	7.7	1.0	0.8	1/2"	
	5	IBS-5	6	441/32	61	340/22	1/4-277/1	1.03	5.7	1.0	0.8	1/2"	
	6	IBS-6	12	1574/35	215	1180/27	1/2-277/1	1.06	21.6	1.0	1.0	1/2"	
ICN	1	ICN-1	12	1484/37	201	1110/26	1/2-277/1	1.06	21.1	1.0	1.0	1/2"	
	2	ICN-2	12	1476/39	199	1100/29	1/2-277/1	1.06	20.9	1.0	1.0	1/2"	
	3	ICN-3	12	1204/39	117	900/25	1/2-277/1	1.04	20.7	1.0	1.0	1/2"	
	4	ICN-4	12	1152/35	112	870/26	1/2-277/1	1.05	14.4	1.0	1.0	1/2"	
	5	ICN-5	8	845/31	82	630/24	1/4-277/1	1.05	12.3	1.0	0.8	1/2"	
	6	ICN-6	12	1151/33	112	870/25	1/2-277/1	1.05	14.4	1.0	1.0	1/2"	
	7	ICN-7	8	688/32	62	470/24	1/4-277/1	1.05	10.2	1.0	0.8	1/2"	
	8	ICN-8	10	1022/36	133	760/26	1/4-277/1	1.05	14.8	1.0	0.8	1/2"	
ICS	1	ICS-1	10	1540/37	175	1000/27	1/2-277/1	1.05	17.6	1.0	1.0	1/2"	
	2	ICS-2	14	1881/34	245	1400/30	1/2-277/1	1.09	27.5	1.0	1.0	1/2"	
	3	ICS-3	14	1336/32	174	1000/24	1/2-277/1	1.04	17.0	1.0	1.0	1/2"	
	4	ICS-4	12	1357/35	177	1000/26	1/2-277/1	1.05	21.6	1.0	1.0	1/2"	
	5	ICS-5	10	852/31	111	640/23	1/4-277/1	1.05	16.5	1.0	0.8	1/2"	
	6	ICS-6	12	805/32	90	600/23	1/4-277/1	1.04	5.6	1.0	0.8	1/2"	
ICN	1	ICN-1	12	1140/36	170	1140/28	1/2-277/1	1.06	22.9	1.0	1.0	1/2"	
	2	ICN-2	12	1442/32	162	1080/25	1/2-277/1	1.06	18.1	1.0	1.0	1/2"	
	3	ICN-3	12	1591/35	179	1000/28	1/2-277/1	1.07	19.1	1.0	1.0	1/2"	
	4	ICN-4	6	349/28	39	260/20	1/4-277/1	1.03	3.5	1.0	0.8	1/2"	
	5	ICN-5	8	642/30	72	480/22	1/4-277/1	1.04	8.1	1.0	0.8	1/2"	
	6	ICN-6	12	1184/32	132	870/23	1/2-277/1	1.04	13.4	1.0	1.0	1/2"	
	7	ICN-7	10	905/34	102	680/26	1/4-277/1	1.05	10.8	1.0	0.8	1/2"	
	8	ICN-8	12	1141/35	146	800/25	1/2-277/1	1.05	13.4	1.0	1.0	1/2"	
ICS	1	ICS-1	12	1431/37	185	1000/27	1/2-277/1	1.05	19.1	1.0	1.0	1/2"	
	2	ICS-2	12	1471/33	192	1050/25	1/2-277/1	1.05	19.7	1.0	1.0	1/2"	
	3	ICS-3	8	781/31	94	510/23	1/4-277/1	1.04	8.3	1.0	0.8	1/2"	
	4	ICS-4	10	1025/31	130	710/24	1/4-277/1	1.05	12.7	1.0	0.8	1/2"	
	5	ICS-5	12	1244/35	160	870/25	1/2-277/1	1.05	16.3	1.0	1.0	1/2"	
	6	ICS-6	12	1580/35	174	1100/25	1/2-277/1	1.05	11.0	1.0	0.8	1/2"	
	7	ICS-7	6	448/32	78	310/22	1/4-277/1	1.03	8.3	1.0	0.8	1/2"	
	8	ICS-8	12	1271/36	211	850/26	1/2-277/1	1.04	35.0	2.0	2.7	1/2"	
IDN	1	IDN-1	8	571/34	100	400/23	1/4-277/1	1.03	15.8	1.0	0.8	1/2"	
	2	IDN-2	6	447/32	78	310/22	1/4-277/1	1.03	7.2	1.0	0.8	1/2"	
	3	IDN-3	10	1051/35	133	740/26	1/4-277/1	1.05	19.8	1.0	0.8	1/2"	
	4	IDN-4	8	672/31	120	480/22	1/4-277/1	1.04	8.7	1.0	0.8	1/2"	
	5	IDN-5	6	316/36	50	280/25	1/4-277/1	1.03	5.9	1.0	0.8	1/2"	
	6	IDN-6	10	1081/34	136	750/25	1/4-277/1	1.05	15.8	1.0	0.8	1/2"	
	7	IDN-7	16	2489/41	307	1700/38	3/4-277/1	1.14	30.0	1.0	1.0	1/2"	
	8	IDN-8	12	1549/32	195	1080/25	1/2-277/1	1.06	18.0	1.0	1.0	1/2"	
IDS	1	IDS-1	6	547/30	69	380/21	1/4-277/1	1.03	10.0	1.0	0.8	1/2"	
	2	IDS-2	10	1132/31	143	800/25	1/4-277/1	1.06	14.6	1.0	0.8	1/2"	
	3	IDS-3	10	1195/34	125	800/26	1/4-277/1	1.05	14.4	1.0	0.8	1/2"	
	4	IDS-4	8	855/32	107	600/23	1/4-277/1	1.04	11.6	1.0	0.8	1/2"	
	5	IDS-5	8	644/29	72	450/20	1/4-277/1	1.03	6.3	1.0	0.8	1/2"	
	6	IDS-6	8	886/32	100	620/23	1/4-277/1	1.04	10.5	1.0	0.8	1/2"	
	7	IDS-7	10	1187/32	135	820/25	1/4-277/1	1.06	13.5	1.0	0.8	1/2"	
	8	IDS-8	10	1065/36	120	750/26	1/4-277/1	1.05	12.6	1.0	0.8	1/2"	
IDN	1	IDN-1	10	1036/31	116	780/24	1/4-277/1	1.05	13.0	1.0	0.8	1/2"	
	2	IDN-2	10	1076/30	123	770/23	1/4-277/1	1.05	12.7	1.0	0.8	1/2"	
	3	IDN-3	8	878/31	99	610/23	1/4-277/1	1.04	11.3	1.0	0.8	1/2"	
	4	IDN-4	12	1316/34	135	900/26	1/4-277/1	1.05	21.0	1.0	1.0	1/2"	
	5	IDN-5	8	771/35	100	580/25	1/4-277/1	1.04	11.0	1.0	0.8	1/2"	
	6	IDN-6	6	533/34	69	400/23	1/4-277/1	1.03	11.4	1.0	0.8	1/2"	
	7	IDN-7	10	884/44	115	680/29	1/4-120/1	1.05	20.9	1.0	0.8	1/2"	
	8	IDN-8	10	907/41	118	680/29	1/4-120/1	1.05	20.9	1.0	0.8	1/2"	
IDS	1	IDS-1	8	772/36	101	580/25	1/4-120/1	1.04	11.1	1.0	0.8	1/2"	
	2	IDS-2	8	679/35	88	510/25	1/4-120/1	1.04	9.1	1.0	0.8	1/2"	
	3	IDS-3	10	872/35	114	654/26	1/4-120/1	1.05	13.0	1.0	0.8	1/2"	
	4	IDS-4	6	452/31	59	340/21	1/4-120/1	1.06	23.6	1.0	1.0	1/2"	
	5	IDS-5	12	1447/38	188	1040/29	1/2-120/1	1.06	23.6	1.0	1.0	1/2"	
	6	IDS-6	12	1521/39	166	1140/30	1/2-120/1	1.06	16.9	1.0	1.0	1/2"	
	7	IDS-7	6	514/34	56	310/23	1/4-120/1	1.03	6.6	1.0	0.8	1/2"	
	8	IDS-8	10	982/36	107	740/27	1/4-120/1	1.03	13.5	1.0	0.8	1/2"	
ZDS	1	ZDS-1	12	1225/39	229	840/28	1/2-120/1	1.04	21.3	1.0	1.0	1/2"	
	2	ZDS-2	12	1107/35	226	740/24	1/2-120/1	1.03	12.8	1.0	0.8	1/2"	
	3	ZDS-3	8	579/32	114	430/22	1/4-120/1	1.03	12.8	1.0	0.8	1/2"	
	4	ZDS-4	10	951/39	194	710/28	1/4-120/1	1.03	15.8	1.0	0.8	1/2"	
	5	ZDS-5	10	719/32	147	540/23	1/4-120/1	1.04	15.2	1.0	0.8	1/2"	
	6	ZDS-6	8	615/35	126	460/24	1/4-120/1	1.03	10.5	1.0	0.8	1/2"	
	7	ZDS-7	6	340/29	69	260/21	1/4-120/1	1.03	3.5	1.0	0.8	1/2"	
	8	ZDS-8	10	930/44	190	740/25	1/4-120/1	1.05	18.6	1.0	0.8	1/2"	
ZEN	1	ZEN-1	12	1356/37	233	1000/31	1/2-120/1	1.06	17.7	1.0	1.0	1/2"	
	2	ZEN-2	12	1481/38	237	1110/31	1/2-120/1	1.06	21.0	1.0	1.0	1/2"	
	3	ZEN-3	14	237	237	1520/31	1/2-120/1	1.06	21.0	1.0	1.0	1/2"	
	4	ZEN-4	12	1481/38	237	1110/31	1/2-120/1	1.06	21.0	1.0	1.0	1/2"	
	5	ZEN-5	12	1356/37	233	1000/31	1/2-120/1	1.06	17.7	1.0	1.0	1/2"	
	6	ZEN-6	12	1481/38	237	1110/31	1/2-120/1	1.06	21.0	1.0	1.0	1/2"	
	7	ZEN-7	12	1356/37	233	1000/31	1/2-120/1						

EXHAUST FAN SCHEDULE

TAG NO.	CFM	S.P.	MOTOR	NOTES	LOCATION	SERVICE
EF-1	500	.25	1/20-120/1	5,6,8	IAH	T
2	460	.25	1/20-120/1	5,6,8	IAH	T
3	449	.25	1/20-120/1	5,6,8	IAH	T
4	400	.185	1/20-120/1	5,11	IAH	M
5	449	.25	1/20-120/1	6,8	IBH	T
6	400	.25	1/20-120/1	6,8	IBH	T
7	201	.25	1/20-120/1	6,8	IBH	T
8	449	.25	1/20-120/1	6,8	IBS	T
9	400	.25	1/20-120/1	6,8	IBS	T
10	304	.25	1/20-120/1	4,5,8	IBH	M
11	465	.25	1/20-120/1	5,6,8	ZBH	LAUNDRY
12	449	.25	1/20-120/1	5,6,8	ZBH	T
13	465	.25	1/20-120/1	5,6,8	ZBS	T
14	549	.25	1/20-120/1	5,6,8	ZBH	T
15	370	.25	1/20-120/1	6,8	ICN	T
16	400	.185	1/20-120/1	6,8	ICN	M
17	449	.25	1/20-120/1	6,8	ICS	T
18	400	.185	1/20-120/1	6,8	ICS	M
19	449	.25	1/20-120/1	6,8	ZCN	T
20	400	.185	1/20-120/1	6,8	ZCN	M
21	93	.125	1/20-120/1	4,5,8	IDS	T
22	449	.25	1/20-120/1	6,8	IDS	T
23	400	.185	1/20-120/1	6,8	IDS	M
24	186	.125	1/20-120/1	6,8	IDS	M
25	186	.125	1/20-120/1	6,8	IDS	M
26	526	.25	1/20-120/1	5,6,8	IDH	T
27	1320	.125	1/20-120/1	5,11	IDH	M
28	550	.125	1/20-120/1	5,11	IDH	M
29	449	.25	1/20-120/1	6,8	IDS	T
30	400	.185	1/20-120/1	6,8	IDS	M
31	93	.125	1/20-120/1	4,5,8	IDS	T
32	449	.25	1/20-120/1	6,8	IDS	T
33	400	.185	1/20-120/1	6,8	IDS	M
34	186	.125	1/20-120/1	6,8	IDS	M
35	78	.125	1/20-120/1	6,8	IDS	M
36	39	.125	1/20-120/1	6,8	IDS	M
37	422	.25	1/20-120/1	5,6	4EH	T
38	158	.125	1/20-120/1	5,6,8	4EH	T
39	501	.25	1/20-120/1	5,6,8	3EH	T
40	3200	.25	1/20-120/1	5,12	3EH	M
41	677	.25	1/20-120/1	6,8	IES	T
42	1165	.5	1/4-120/1	6,9	2ES	T
43	926	.125	1/20-120/1	6,9	2ES	M
44	973	.275	1/20-120/1	6,9	3ES	T
45	793	.125	1/20-120/1	6,8	3ES	M
46	400	.125	1/20-120/1	6,8	IFH	M
47	400	.125	1/20-120/1	6,8	IFH	M
48	493	.25	1/20-120/1	6,8	2FH	T
49	192	.25	1/20-120/1	5,6,8	2FH	T
50	195	.25	1/20-120/1	5,6,8	2FH	T
51	400	.125	1/20-120/1	6,8	2ES	T
52	193	.25	1/20-120/1	5,6,8	2ES	M
53	186	.25	1/20-120/1	5,6,8	2ES	M
54	443	.25	1/20-120/1	6,8	2ES	T
55	400	.125	1/20-120/1	6,8	2ES	M
56	400	.125	1/20-120/1	6,8	2ES	M
57	400	.125	1/20-120/1	6,8	2ES	M
58	443	.25	1/20-120/1	6,8	2ES	T
59	186	.25	1/20-120/1	5,6,8	2ES	T
60	186	.25	1/20-120/1	5,6,8	2ES	T
61	400	.125	1/20-120/1	6,8	2ES	T
62	186	.25	1/20-120/1	5,6,8	2ES	T
63	186	.25	1/20-120/1	5,6,8	2ES	T
64	411	.25	1/20-120/1	6,8	2ES	T
65	410	.25	1/20-120/1	6,8	2ES	T
66	400	.125	1/20-120/1	6,8	2ES	T
67	400	.125	1/20-120/1	6,8	2ES	T
68	186	.25	1/20-120/1	5,6,8	2ES	T
69	400	.125	1/20-120/1	6,8	2ES	T
70	445	.25	1/20-120/1	6,8	2ES	T
71	400	.125	1/20-120/1	6,8	2ES	T
72	443	.25	1/20-120/1	6,8	2ES	T
73	400	.125	1/20-120/1	6,8	2ES	T
74	416	.25	1/20-120/1	6,8	2ES	T
75	400	.125	1/20-120/1	6,8	2ES	T
76	416	.25	1/20-120/1	6,8	2ES	T
77	400	.125	1/20-120/1	6,8	2ES	T
78	160	.125	1/20-120/1	6,8	2ES	T
79	1334	.125	1/4-120/1	1,5	IA-B	CORRIDOR
80	1334	.125	1/4-120/1	1,5	IB-C	CORRIDOR
81	1334	.125	1/4-120/1	1,5	IC-D	CORRIDOR
82	600	.125	1/4-120/1	1,5	ID-E	CORRIDOR
83	600	.125	1/4-120/1	1,5	IE-F	CORRIDOR
84	1276	.125	1/4-120/1	1,5	IF-G	CORRIDOR
85	1276	.125	1/4-120/1	1,5	IG-H	CORRIDOR
86	2250	1,5	2-160/13	2,5	IEN (GALLERY)	SPRINKLER
87	2250	1,5	2-160/13	2,5	IEN (GALLERY)	SPRINKLER
88	1200	1,5	1-160/13	1,5	IEN (GALLERY)	SPRINKLER
89	1200	1,5	1-160/13	1,5	IEN (GALLERY)	SPRINKLER
90	4500	1,0	8-160/13	3,5	IEN (GALLERY)	SPRINKLER
91	1500	.375	1/2-160/13	2,5	IEN (GALLERY)	SPRINKLER
92	700	.375	1/2-160/13	2,5	IEN (GALLERY)	SPRINKLER
93	950	.25	1/2-120/1	5,6,7	IEN	TUNNEL
94	1334	.125	1/4-120/1	1,5	IA-B	DELETED
95	260	.125	1/20-120/1	6,8	2BN	LAUNDRY
96	260	.125	1/20-120/1	6,8	2BS	LAUNDRY
97	443	.25	1/20-120/1	6,8	IFN	LAUNDRY
98	443	.25	1/20-120/1	6,8	IFN	LAUNDRY
99	443	.25	1/20-120/1	6,8	IFN	LAUNDRY
100	400	.25	1/20-120/1	6,8	IFN	LAUNDRY

WINTER VENTILATION FAN SCHEDULE

TAG NO.	CFM	S.P.	H.W. COIL MAX VEL.	FILTER (GTY) SIZE	HTGLD (MBH)	EWT (°F) (MAX)	WATER FLOW (GPM)	ELEC. DATA HP-V/Ø/HZ
WVF-1AS	1080	0.75	800 FPM	(1) 20x25x2	32.3	180	2.5	1/2-120/1/60
IBN	1590			(1) 20x25x2	52.0		4.0	
IBS	1730			(1) 20x25x2	56.6		4.0	
ICN	1010			(1) 20x25x2	33.2		3.0	
ICS	1450			(1) 20x25x2	47.5		3.0	
2CN	1351			(1) 20x25x2	44.3		3.0	
2CS	1400			(1) 20x25x2	45.9		3.0	
IDN	1100			(1) 20x25x2	36.0		2.5	
IDS	1610			(1) 20x25x2	53.0		3.5	
2DS	1310			(1) 20x25x2	43.0		3.0	
3ES	2250			(1) 20x25x2	73.8		4.0	3/4-120/1/60
IFN	1420			(1) 20x25x2	46.5		3.0	1/2-120/1/60
IFS	1440			(1) 20x25x2	46.5		3.0	
2FN	1390			(1) 20x25x2	47.1		3.0	
2FS	1370			(1) 20x25x2	45.0		3.0	
IGN	1390			(1) 20x25x2	45.4		3.0	
IGS	1410			(1) 20x25x2	46.1		3.0	
2GN	1410			(1) 20x25x2	46.1		3.0	
IHN	1150	DELETED		(1) 20x25x2	37.9		2.5	
IHS	1230			(1) 24x24x2	40.1		3.0	
2HN	1110			(1) 20x25x2	36.4		2.5	
2HS	1170			(1) 20x25x2	38.4		2.5	
IUN	1150			(1) 20x25x2	37.4		2.5	
IUS	1160			(1) 20x25x2	38.0		2.5	
2GS	1270			(1) 24x24x2	41.5		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. = 0.15 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.	SERVICE	HE-1	HE-2	HE-3
TUNNEL LOCATION		BDG-E	BDG-E	BET. F1 & F6
TUBE WATER GPM/FT. HD		38/4.8	20/1.3	647/1.8
STEAM (#/HR - PSIG)		1388-10	625-10	8960-10
CAPACITY, OUTPUT (MBH)		1333	600	8602
WATER TEMP. (IN / OUT)		50°F/120°F	120°F/180°F	153°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 S. 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)	1388	8960	625
INLET PRESS. (PSIG)	100 PSIG	100 PSIG	100 PSIG
INTERMEDIATE PRESS. (PSIG)	100 PSIG	65 PSIG	65 PSIG
OUTLET PRESS. (PSIG)	10 PSIG	15 PSIG	10 PSIG
RELIEF VALVE LB./HR. NO.1	1388	8960	625
" " " NO.2	1388	8960	625

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. 1/3 & 2/3 CAPACITIES.
 4. TOTAL CAPACITIES LISTED ARE AT FINAL (LOW) PRESSURE RATING.

EXHAUST FAN NOTES

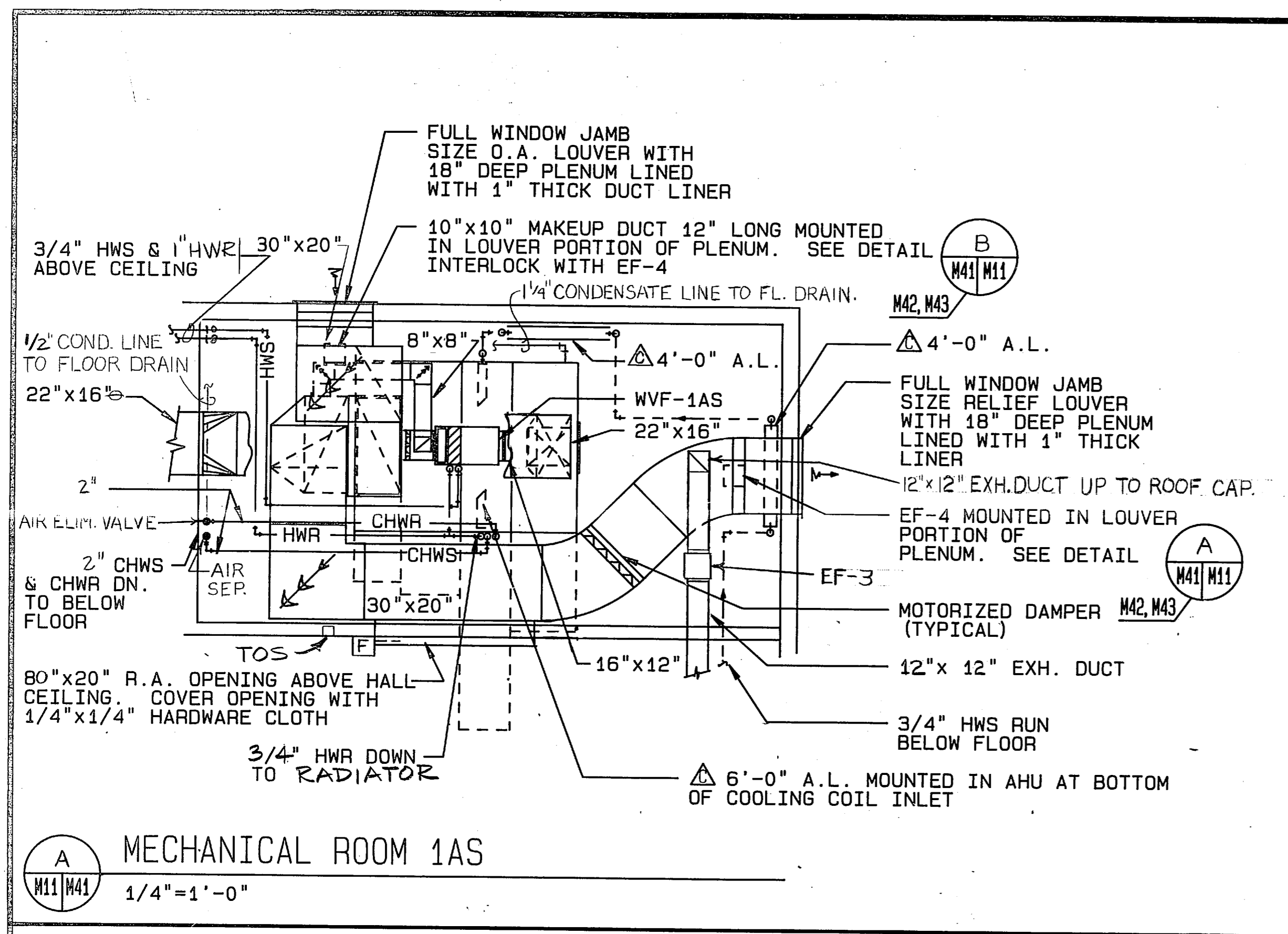
- SIDEWALL CENTR., BDD, BS, IG (MAX. TIP SPEED = 3720 FPM).
- UPBLAST, ROOF MOUNTED ON PREFAB CURB, DISCONNECT, BIRDSCREEN, BACKDRAFT DAMPER.
- UPBLAST, BASE MOUNTED BELT DRIVE.
- CEILING MOUNTED FAN WITH BACKDRAFT DAMPER.
- PROVIDE DISCONNECT SWITCH.
- INLINE CENTRIFUGAL EXHAUSTER WITH BACKDRAFT DAMPER, VIBRATION ISOLATORS
- INLET GUARDED
- PROVIDE ROOF CAP WITH MAX 900 CFM @ 600 FPM.
- PROVIDE ROOF CAP WITH MAX 1250 CFM @ 600 FPM.
- PROVIDE ROOF CAP WITH MAX 1800 CFM @ 600 FPM.
- DIRECT DRIVE PROPELLER FAN.
- BELT DRIVE, WALL COLLAR, BDD, IG (MAX. TIP SPEED = 5200 FPM)

EXHAUST FAN SCHEDULE (CONT.)

TAG NO.	CFM	S.P.	MOTOR	NOTES	LOCATION	SERVICE
EF-101	445	.25	1/20-120/1	5,6,8	IHN	T
102	443	.25	1/20-120/1	5,6,8	IHS	T
103	186	.25	1/20-120/1	6,8	2DS	T
104	1334	.125	1/4-120/1	1	2D-E	CORRIDOR
105	1900	.25	1/3-120/1	5,6,7	IEN	TUNNEL
106	2000	.25	1/4-120/1	5,12	IDN	M

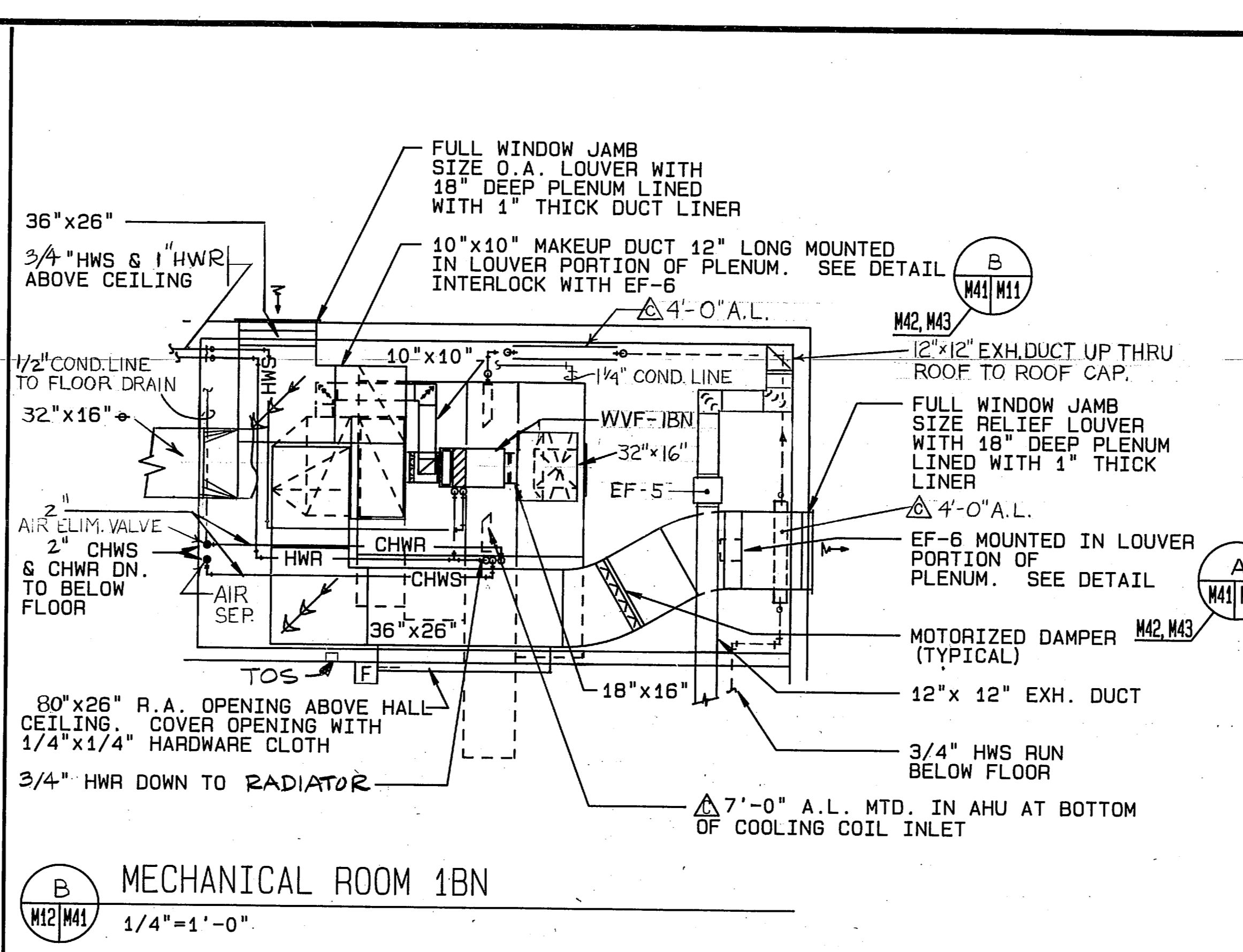
PUMP SCHEDULE

TAG NO.	SERVICE	TYPE	GPM(EA)	HEAD	HP	RPM	NOTES
P-CH-1	CH. W.	DSBM	580	34'	7.5	1750	1
P-CH-2	CH. W.	IN-LINE	55	18'	0.5	1750	1
P-CD-112	COND. W.	DSBM	916	50'/52'	20	1150	1,3
P-PC-1	CH. W.	"	1365	30'	15	1150	1,3
P-PC-2	"	END SUCTION	410	10'	2	1150	3
P-C-AB	"	IN-LINE	121	52'	5	1750	7
P-C-C	"	"	155	57'	5	7	7
P-C-D	"	"	111	66'	5	7	7
P-C-EN	"	"	111	57'	3	7	7
P-C-ES	"	"	154	43'	3	7	7
P-C-F	"	"	147	57'	5	7	7
P-C-G	"	"	145	62'	5	7	7
P-C-H	"	"	135	60'	5	7	7
P-C-J	"	"	83	49'	3	7	7
P-DT-AB	DUAL-T	"	181	78'	8	3450	460V
P-PH	H.W. PRI.	DSBM	647	58'	15	1,7	1,7
P-H-AB	H.W. SEC.	IN-LINE	76	63'	3	7	7
P-H-C	"	"	68	62'	3	7	7
P-H-D	"	"	57	54'	2	7	7
P-H-EN	"	"	22	61'	1.5	7	7
P-H-ES	"	"	64	59'	2	7	7
P-H-F	"	"					



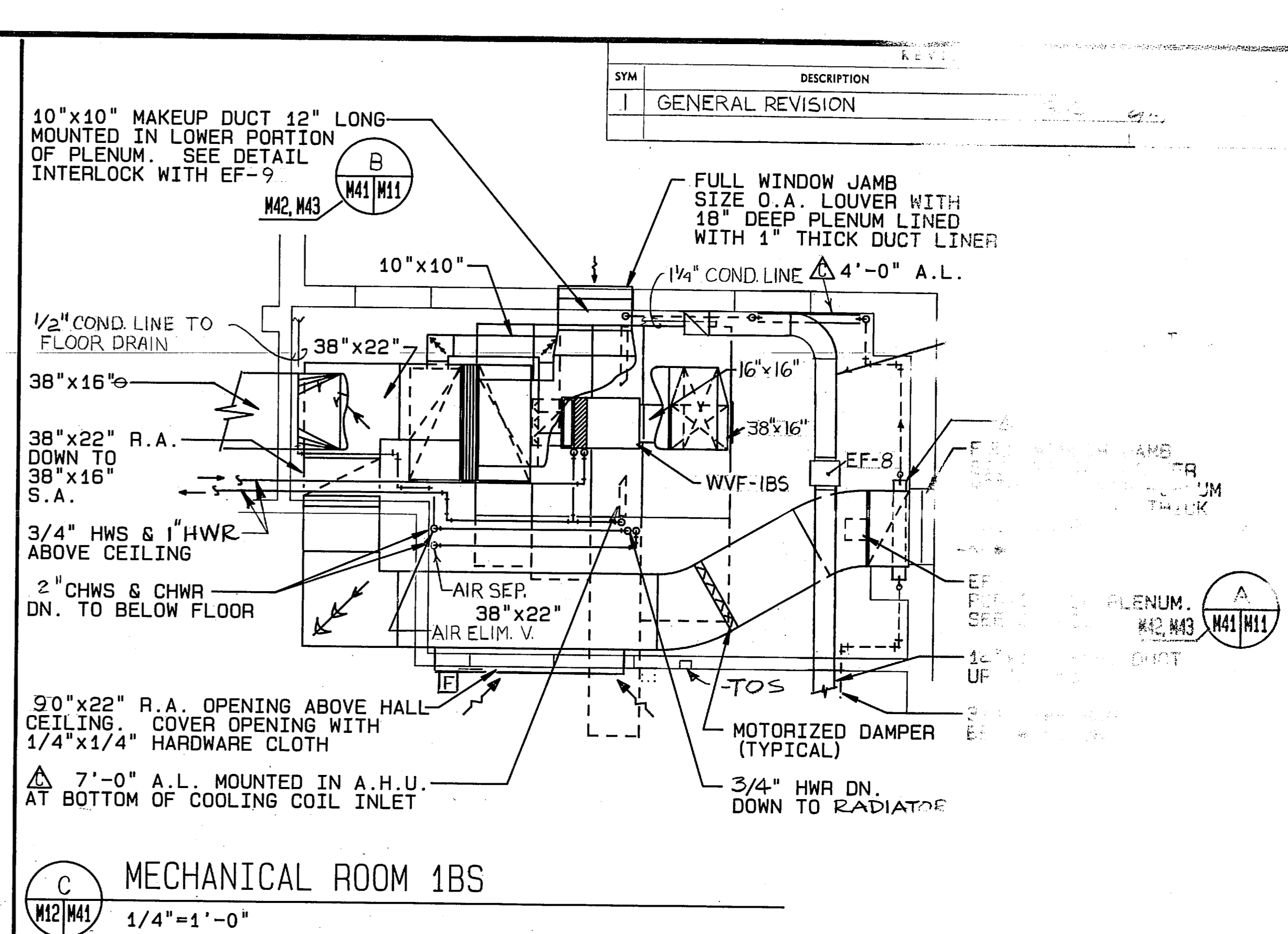
A MECHANICAL ROOM 1AS

1/4"=1'-0"



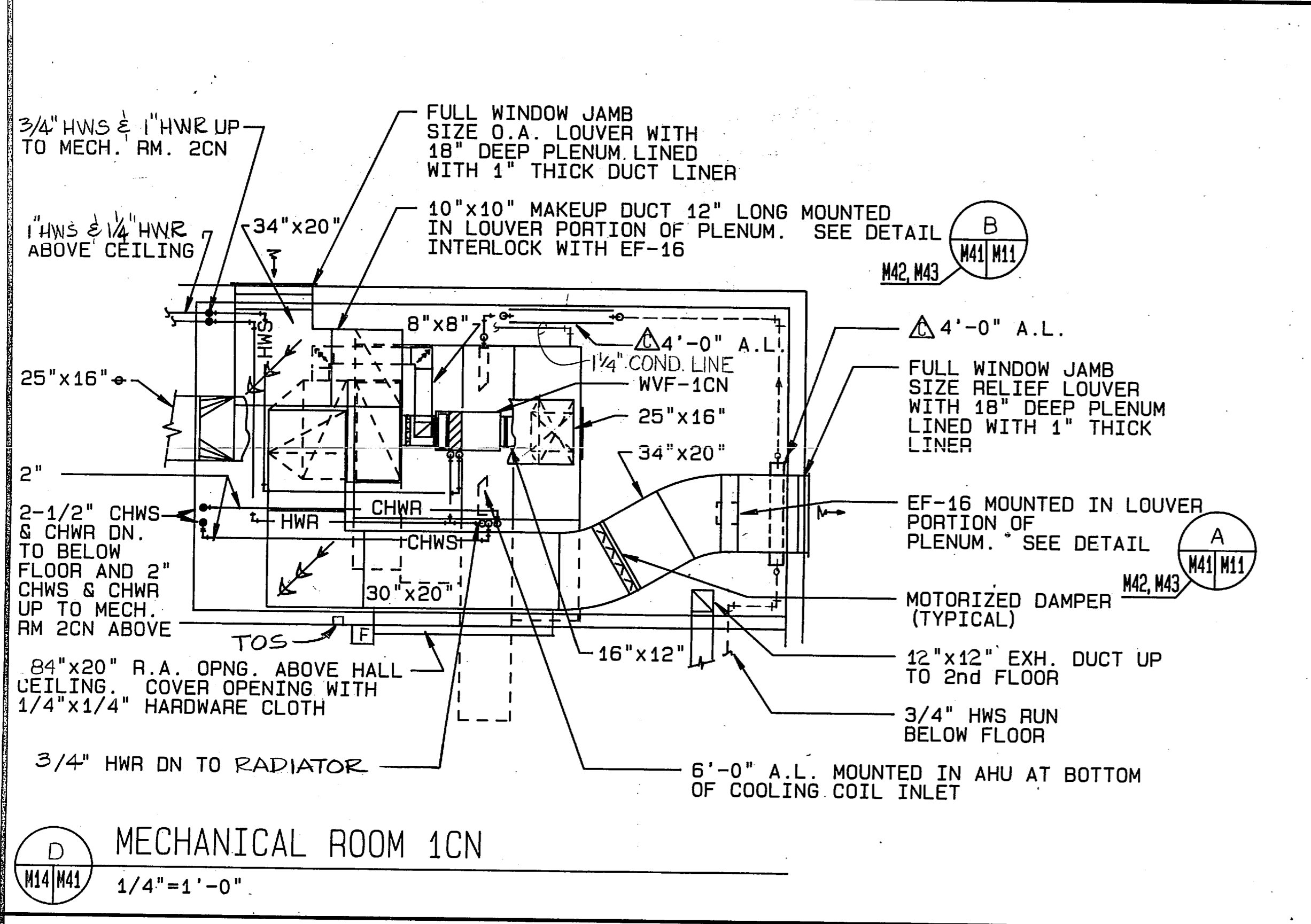
B MECHANICAL ROOM 1BN

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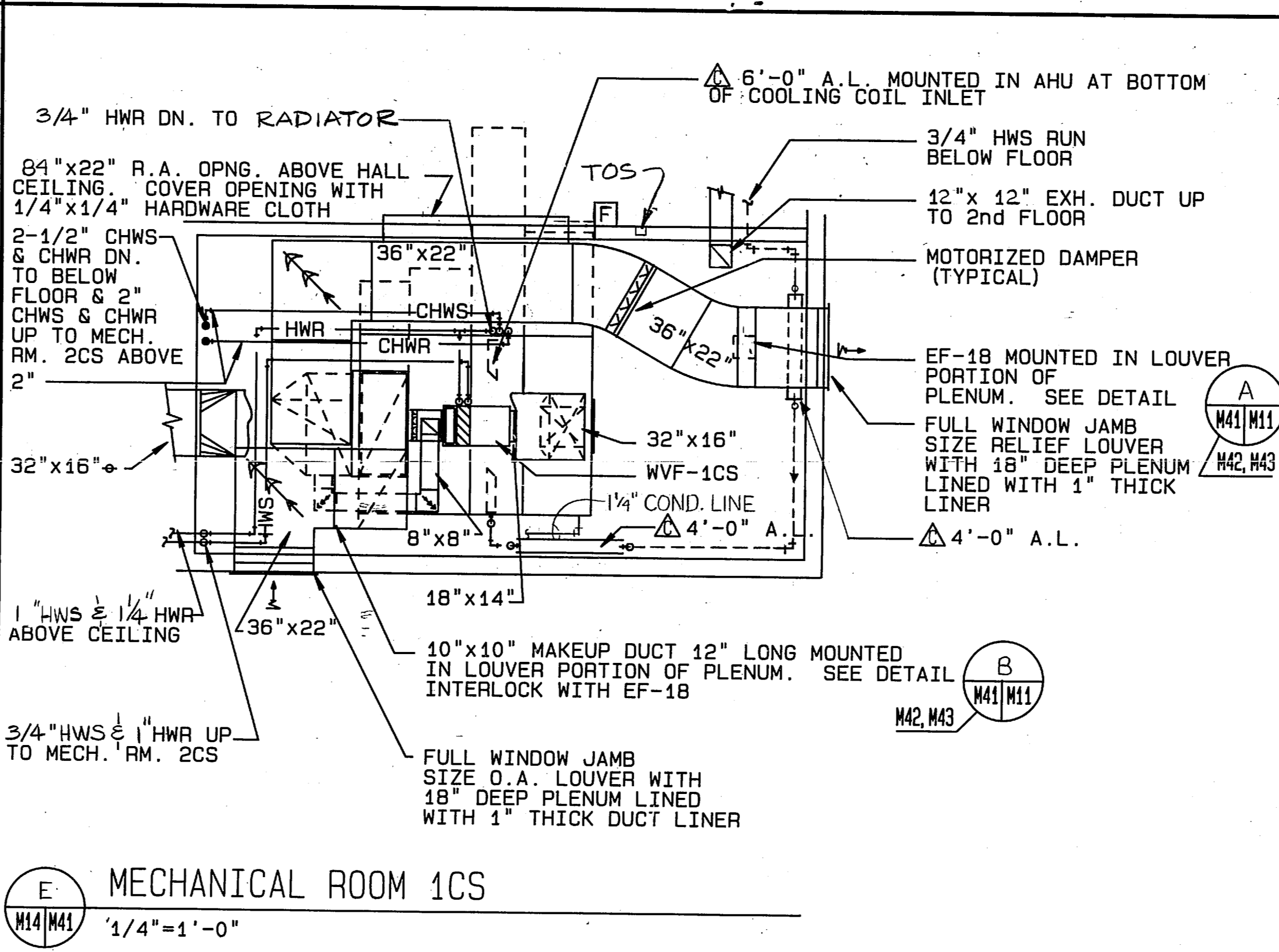
C MECHANICAL ROOM 1BS

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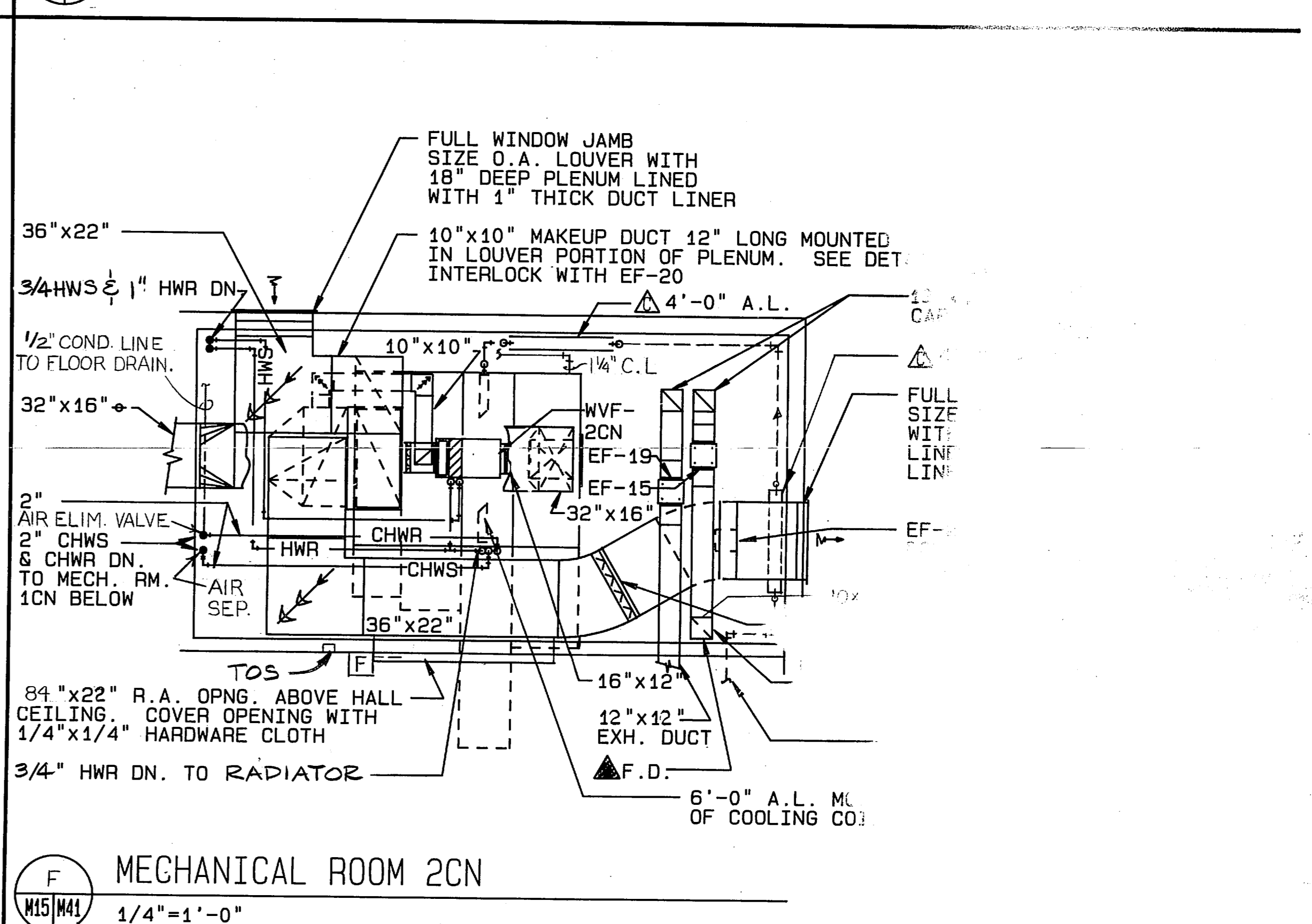
D MECHANICAL ROOM 1CN

1/4"=1'-0"



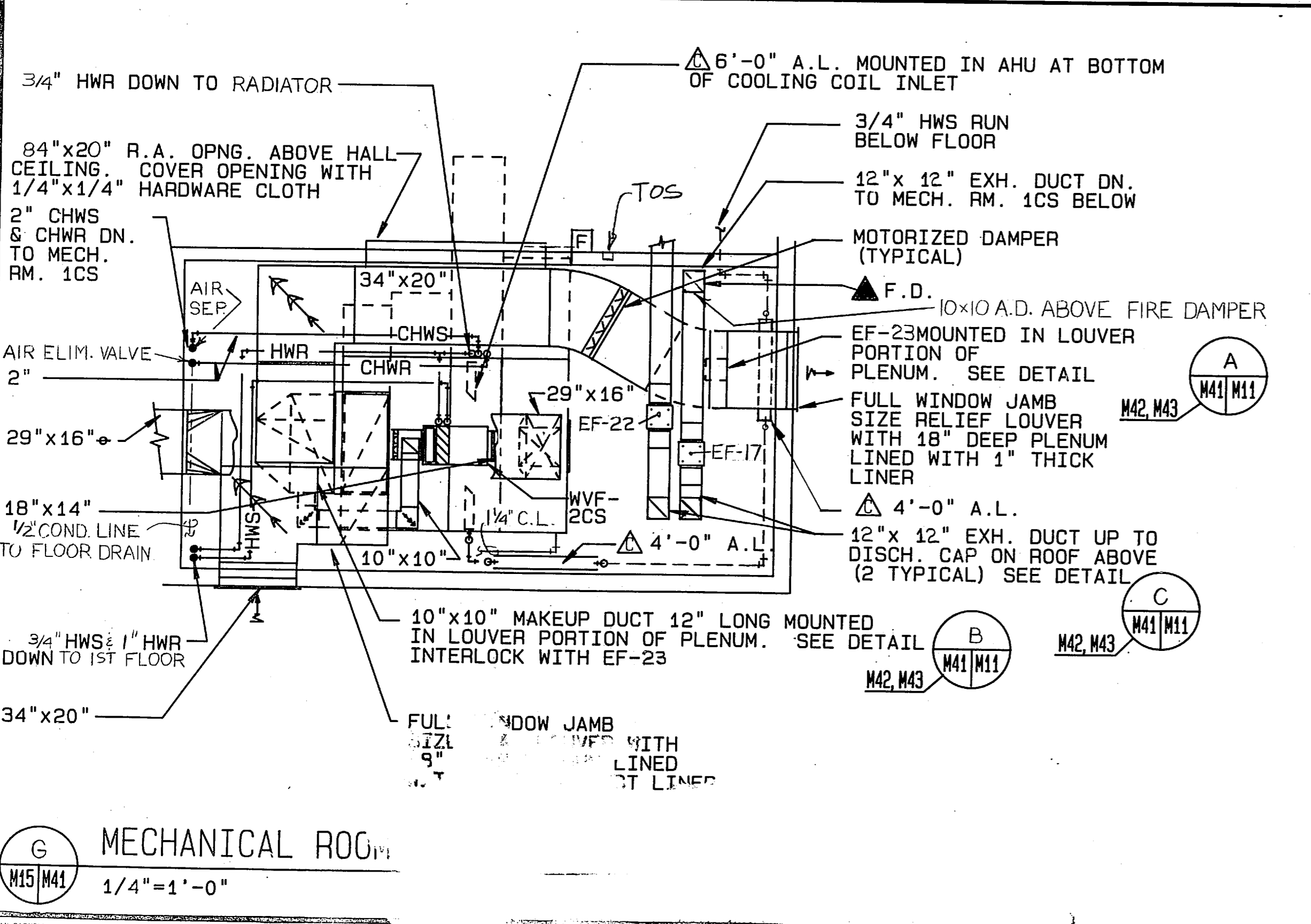
E MECHANICAL ROOM 1CS

1/4"=1'-0"



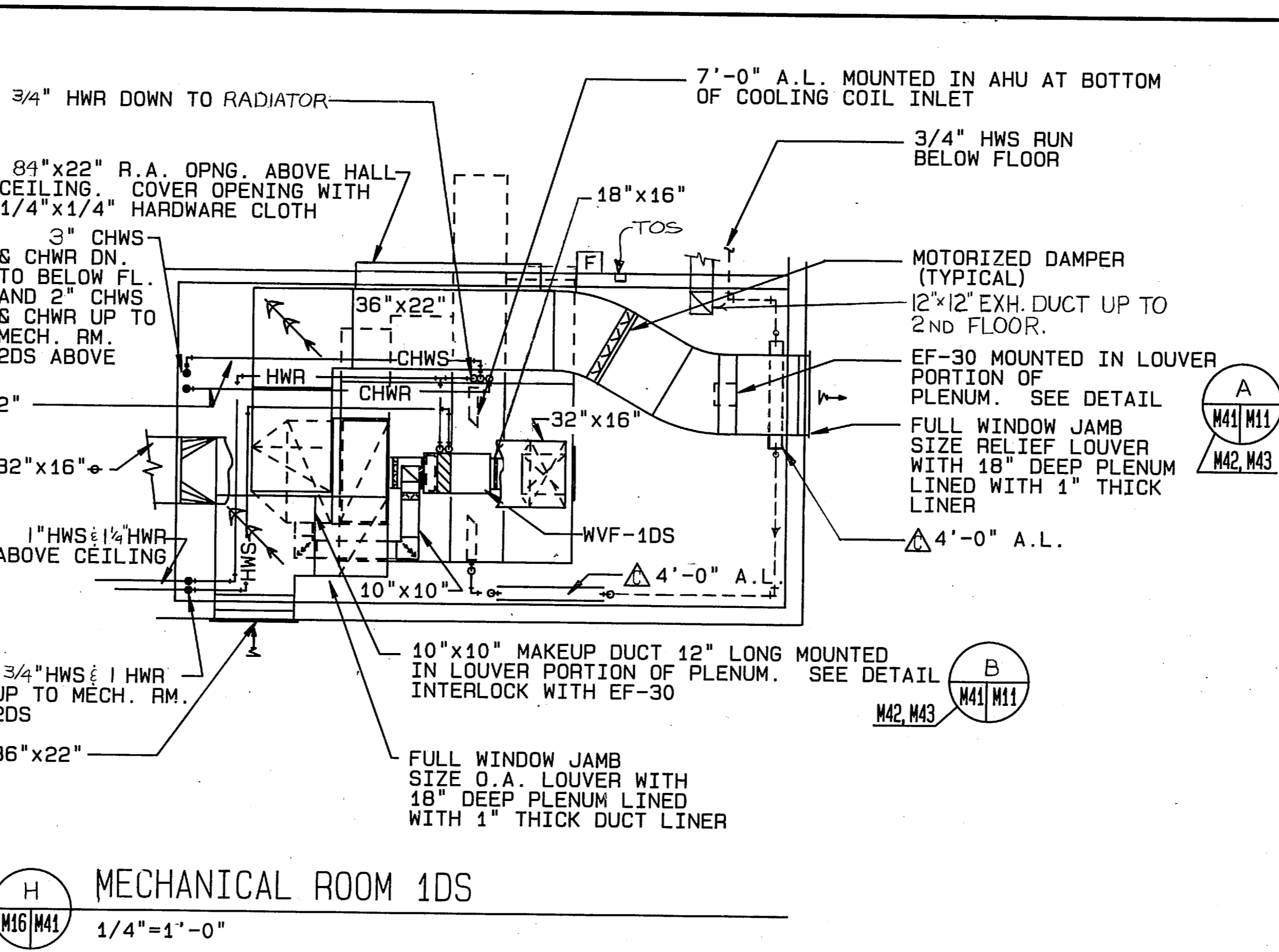
F MECHANICAL ROOM 2CN

1/4"=1'-0"



G MECHANICAL ROOM 1DS

1/4"=1'-0"



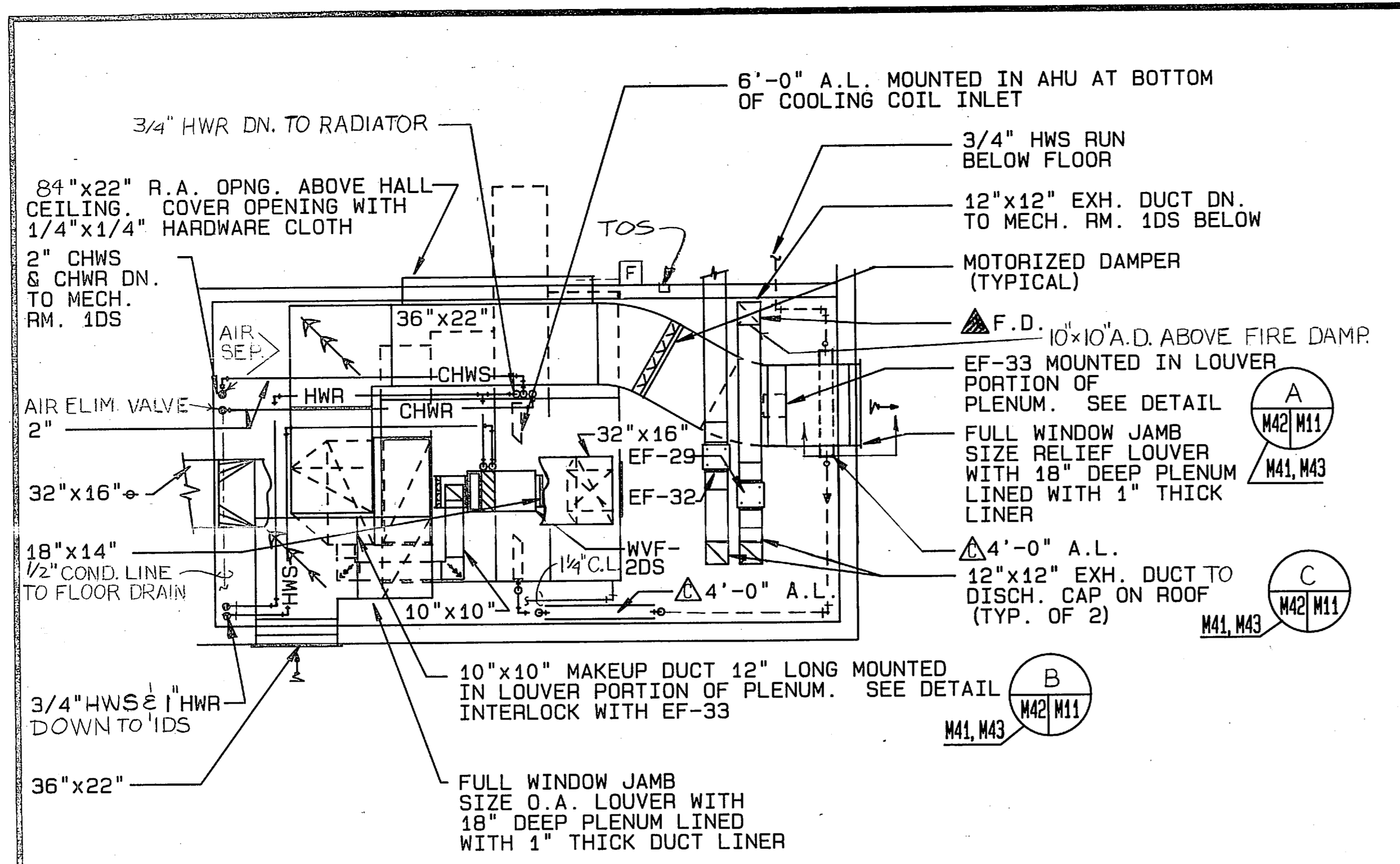
H MECHANICAL ROOM 1DS

1/4"=1'-0"

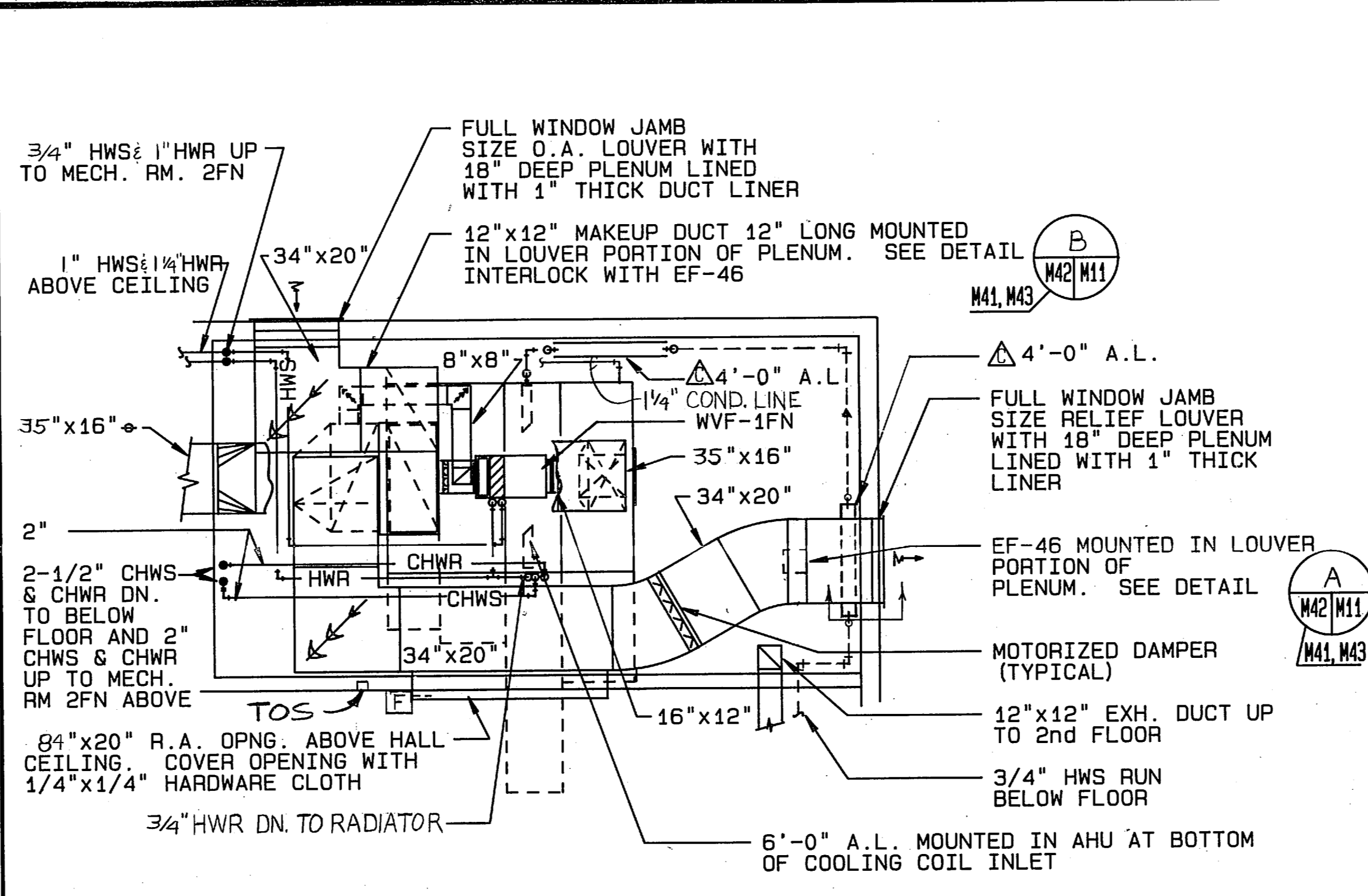
NOTES: 1. SEE GENERAL NOTES ON SHEET

SYM	DESCRIPTION
I	GENERAL REVISION

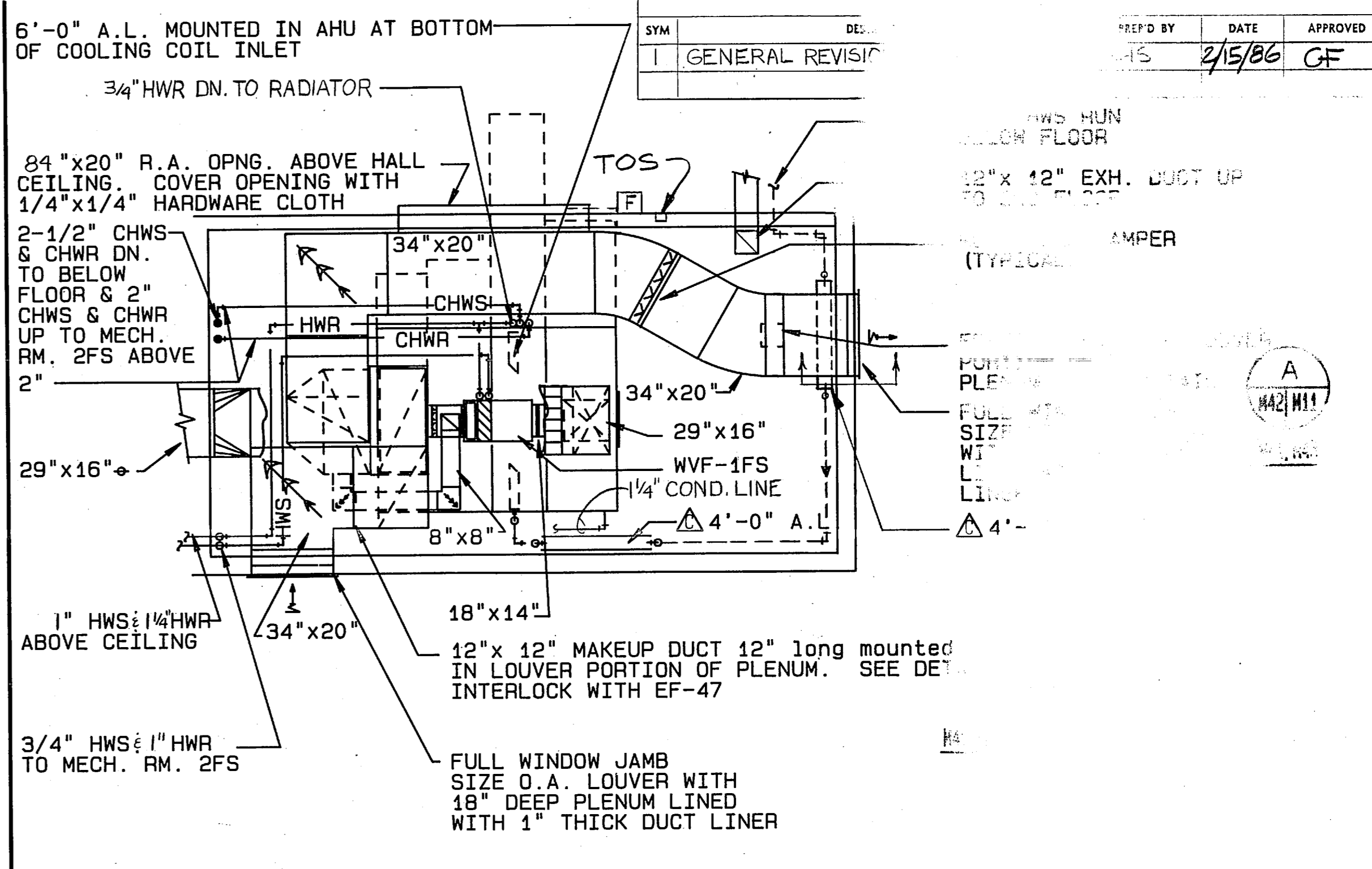
FEREBEE, WALTERS & ASSOCIATES
ARCHITECTURE PLANNING INTERIORS LANDSCAPE DESIGN
CHARLOTTE, NORTH CAROLINA



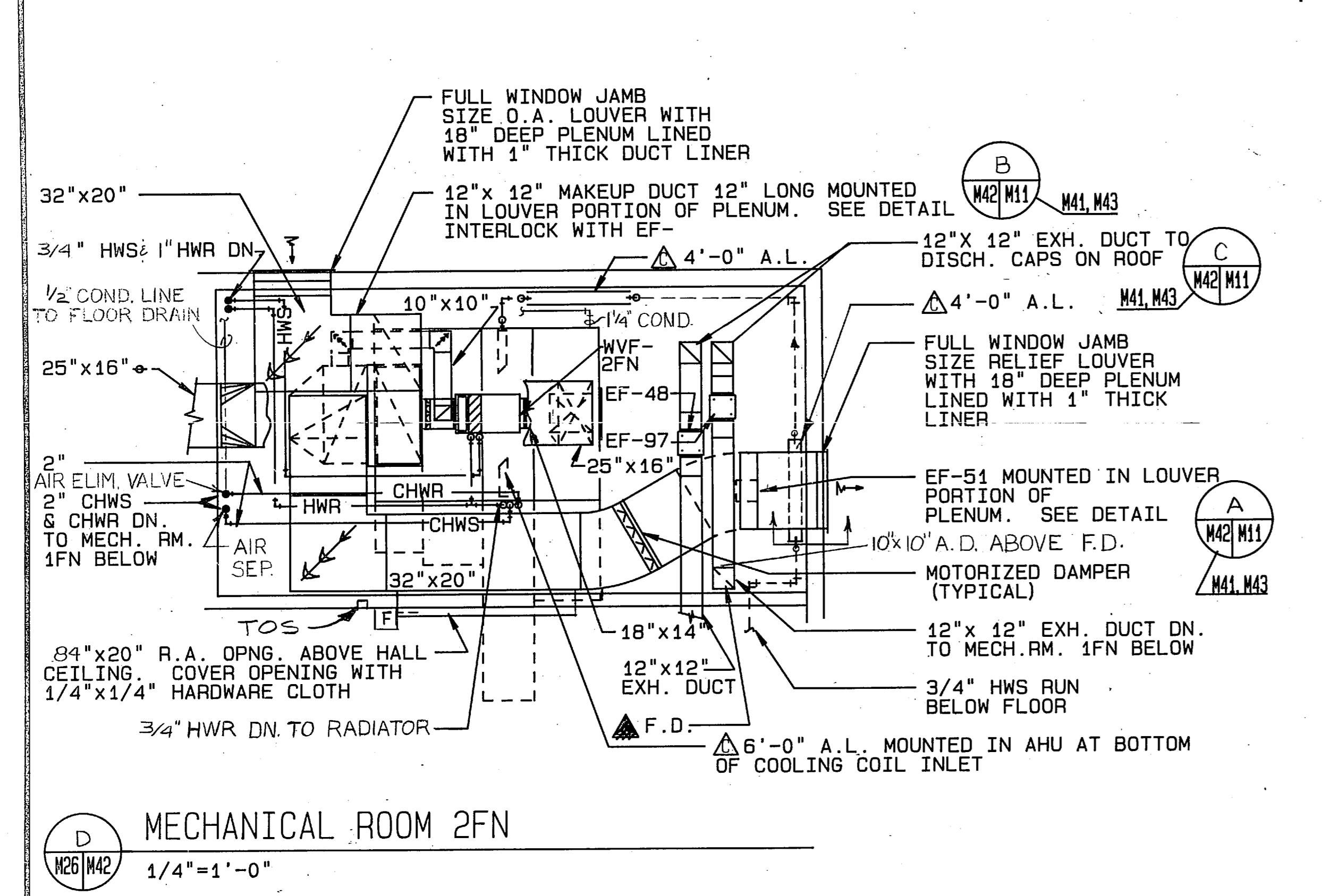
A MECHANICAL ROOM 2DS
1/4"=1'-0"



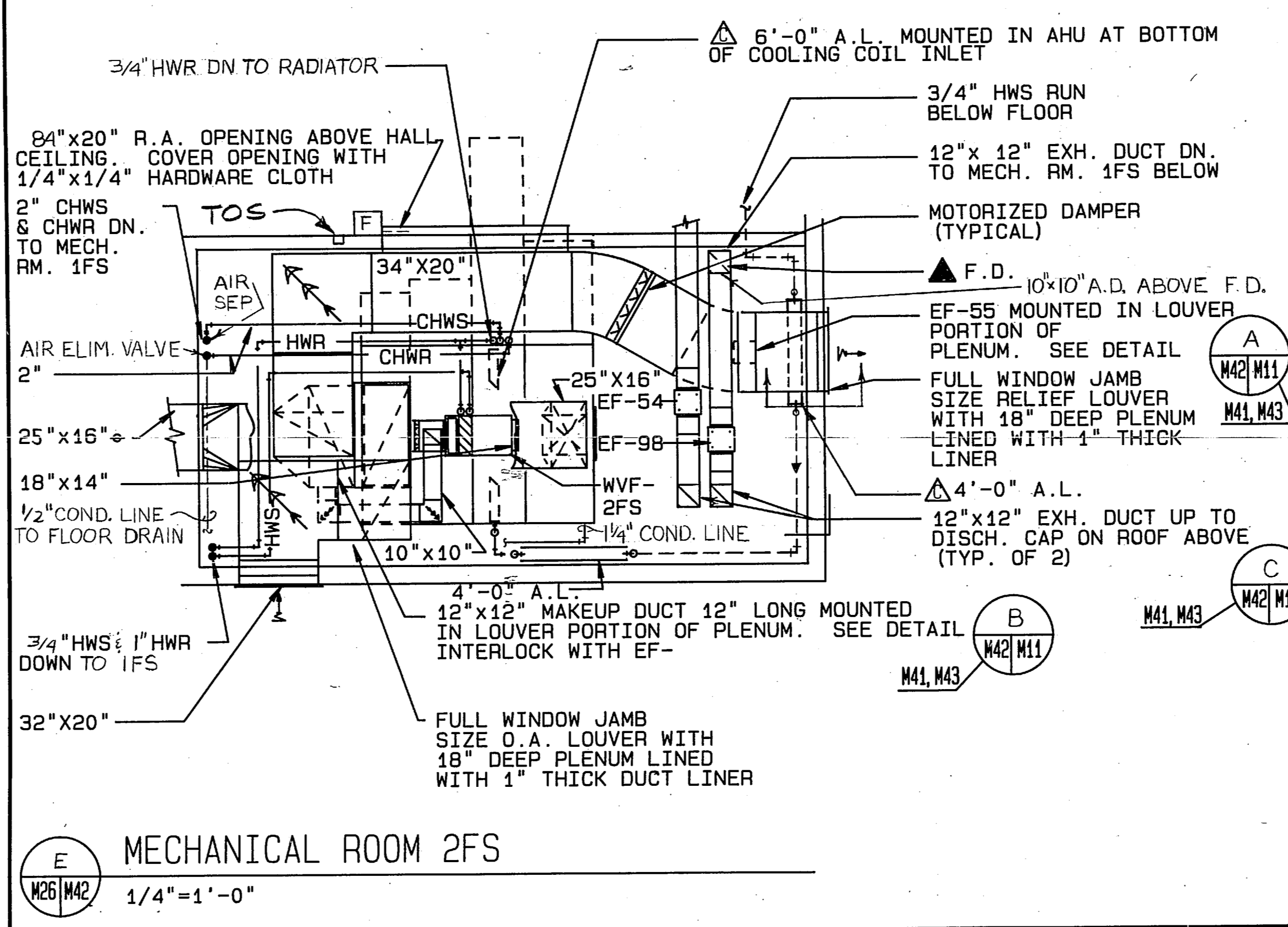
B MECHANICAL ROOM 1FN
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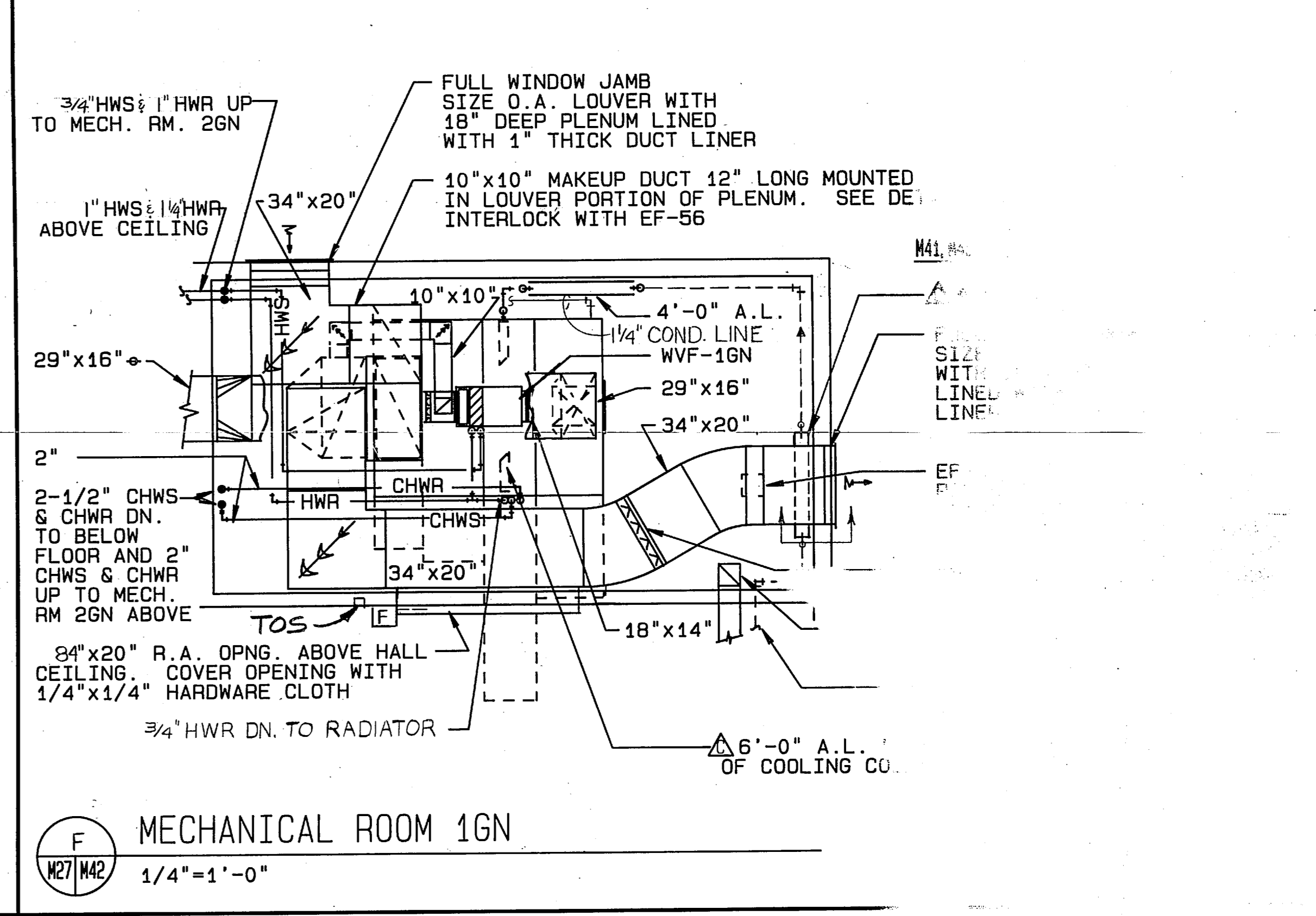
C MECHANICAL ROOM 1FS
1/4"=1'-0"



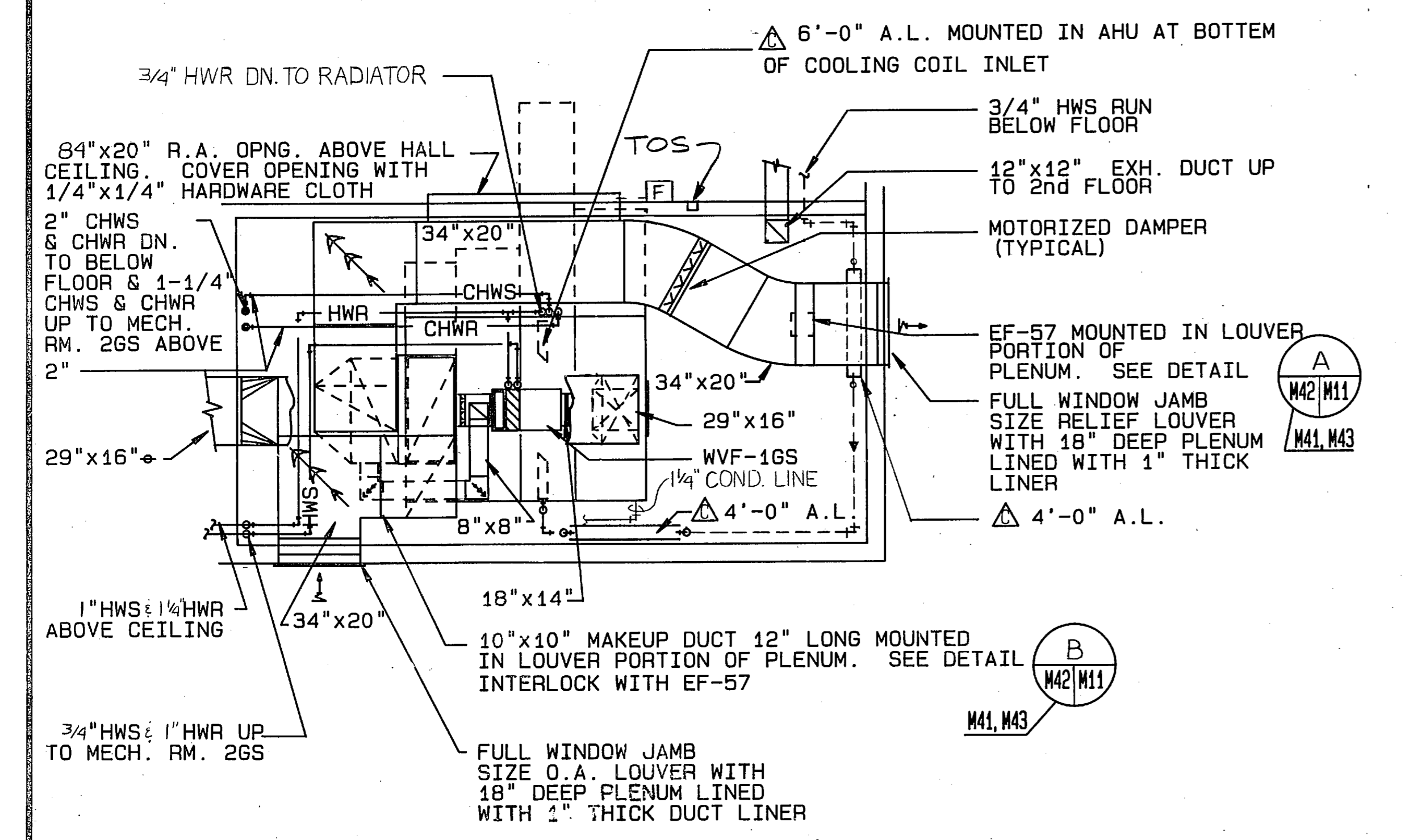
D MECHANICAL ROOM 2FN
1/4"=1'-0"



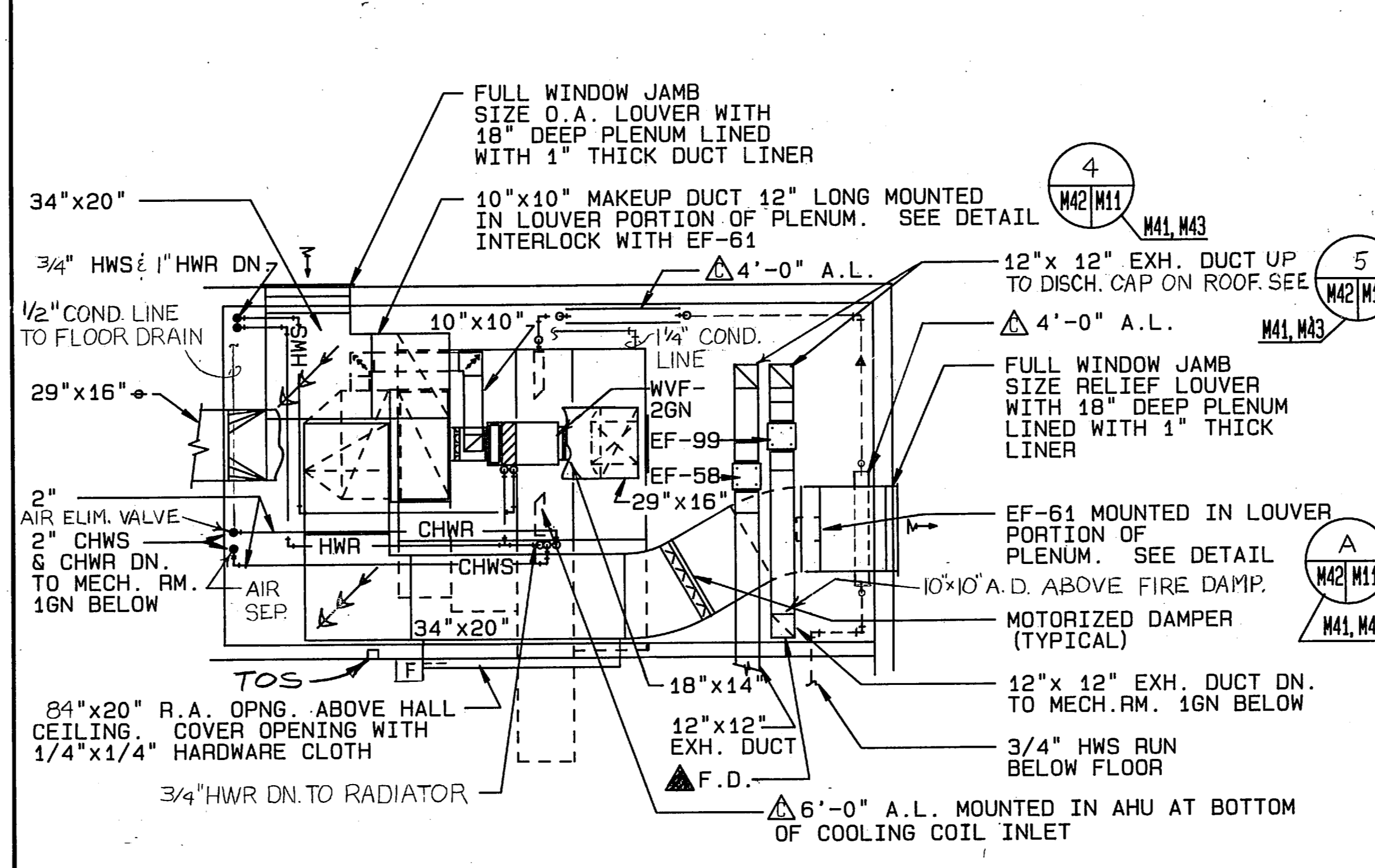
E MECHANICAL ROOM 2FS
1/4"=1'-0"



F MECHANICAL ROOM 1GN
1/4"=1'-0"



G MECHANICAL ROOM 2GS
1/4"=1'-0"



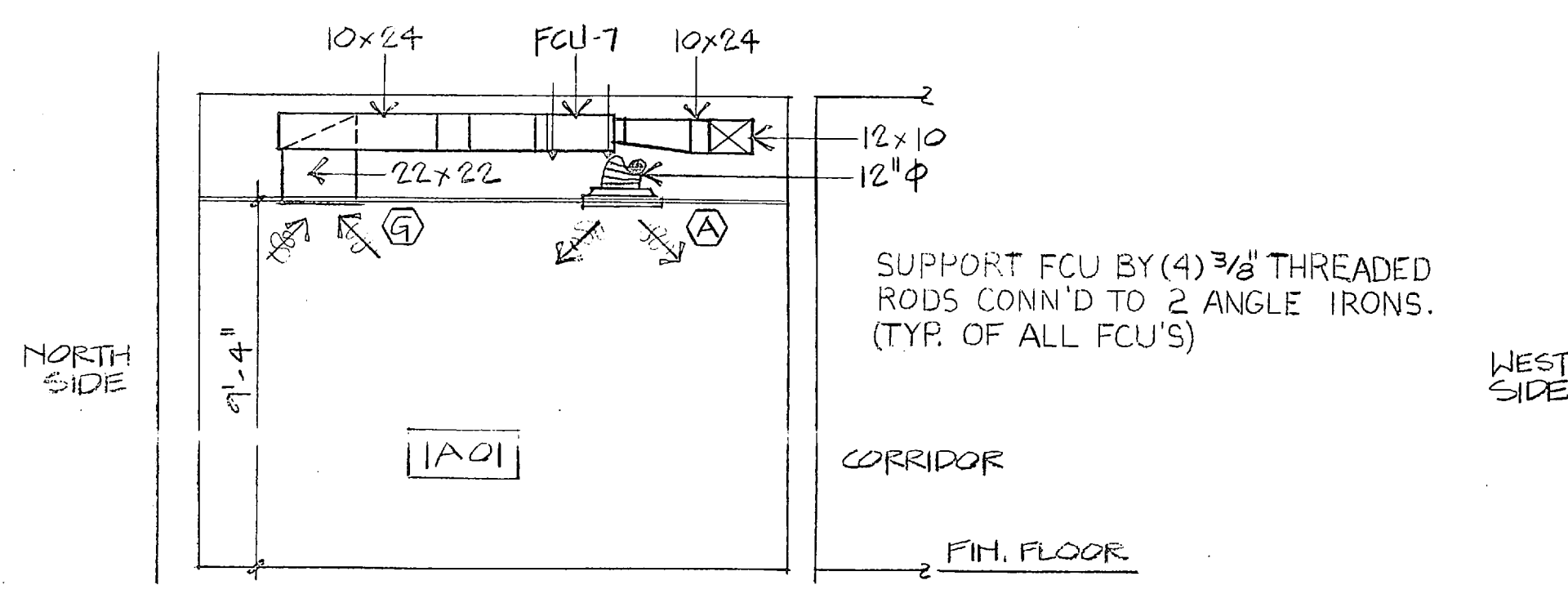
H MECHANICAL ROOM 2GN
1/4"=1'-0"

NOTES: 1. SEE GENERAL NOTES ON SHEET 1.

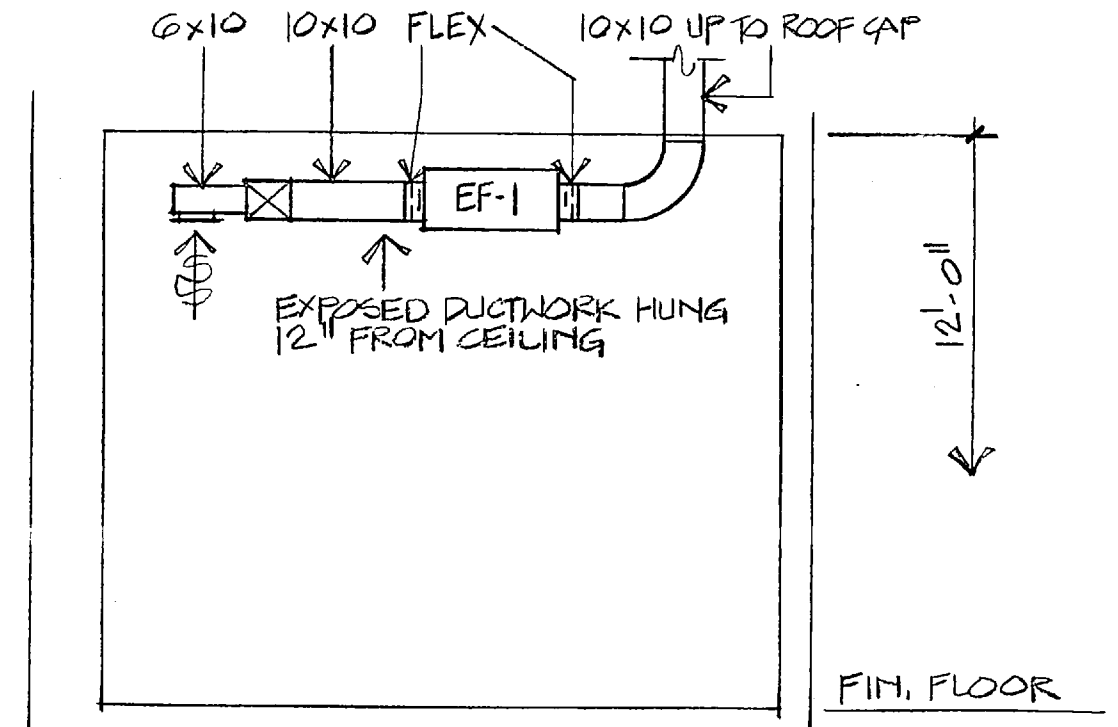
FERGEE, WALTERS & ASSOCIATES
ARCHITECTURE INTERIOR DESIGN
CHARLOTTE NORTH CAROLINA



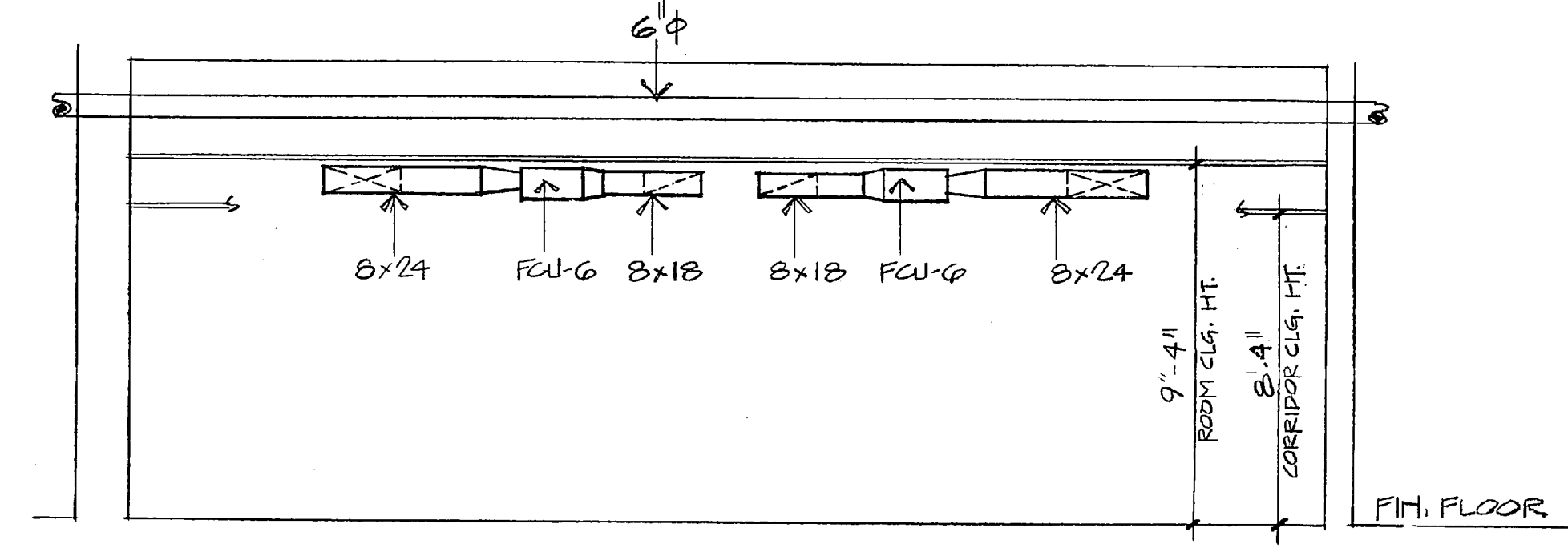
SYM	DES.	REV
1	GENERAL REVISION	



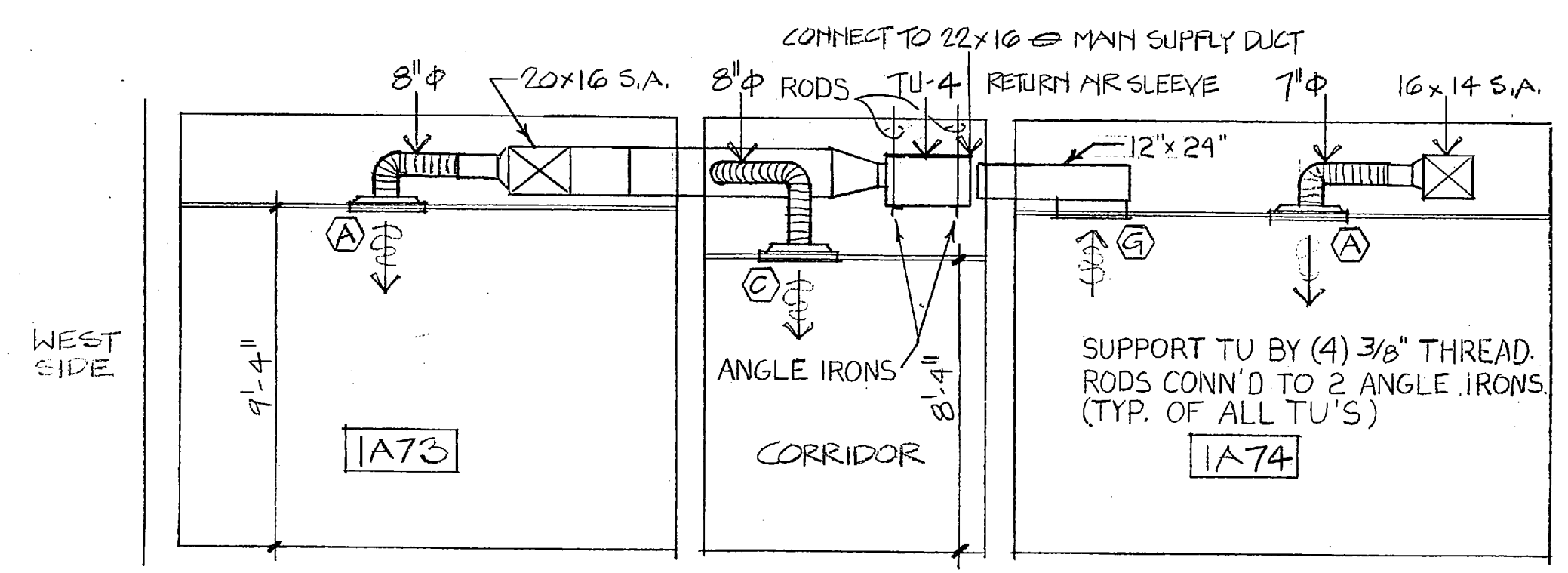
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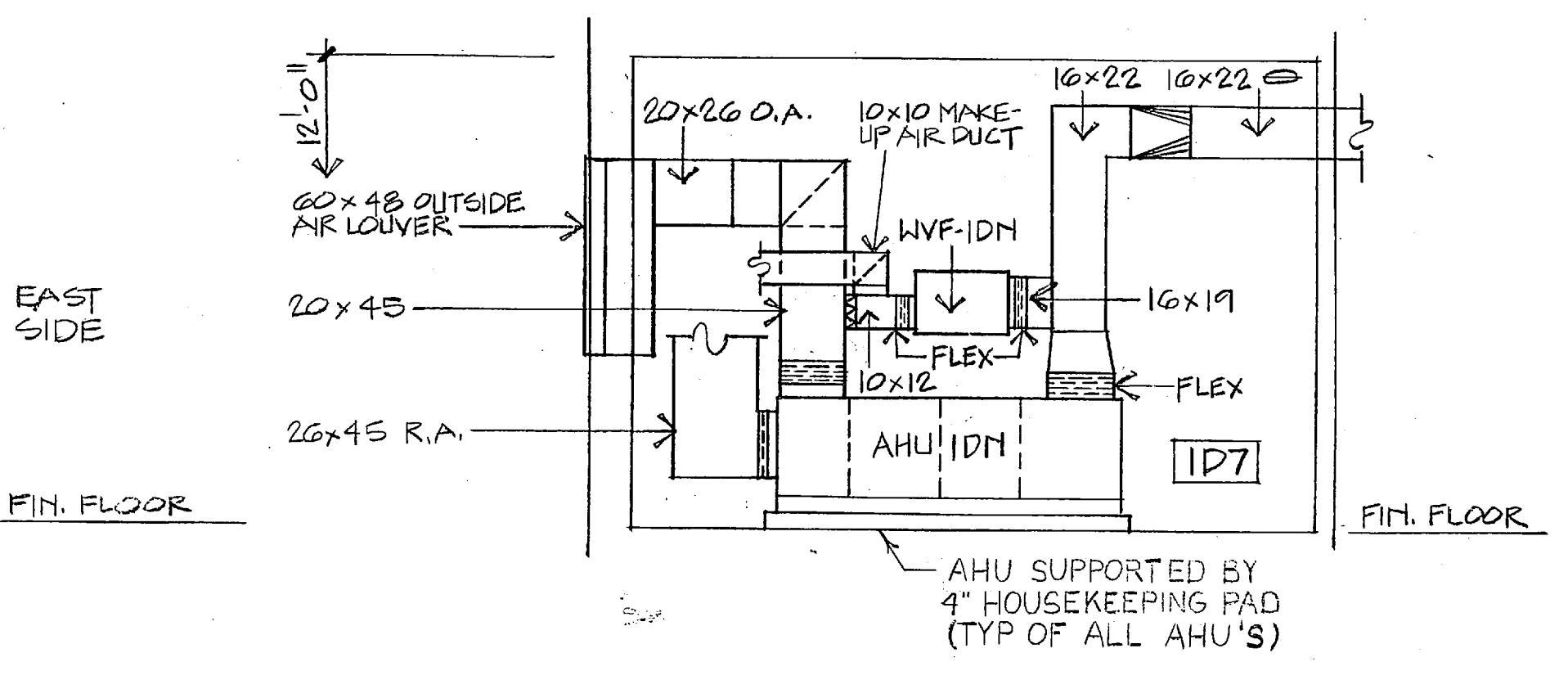
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1/4" = 1'-0"



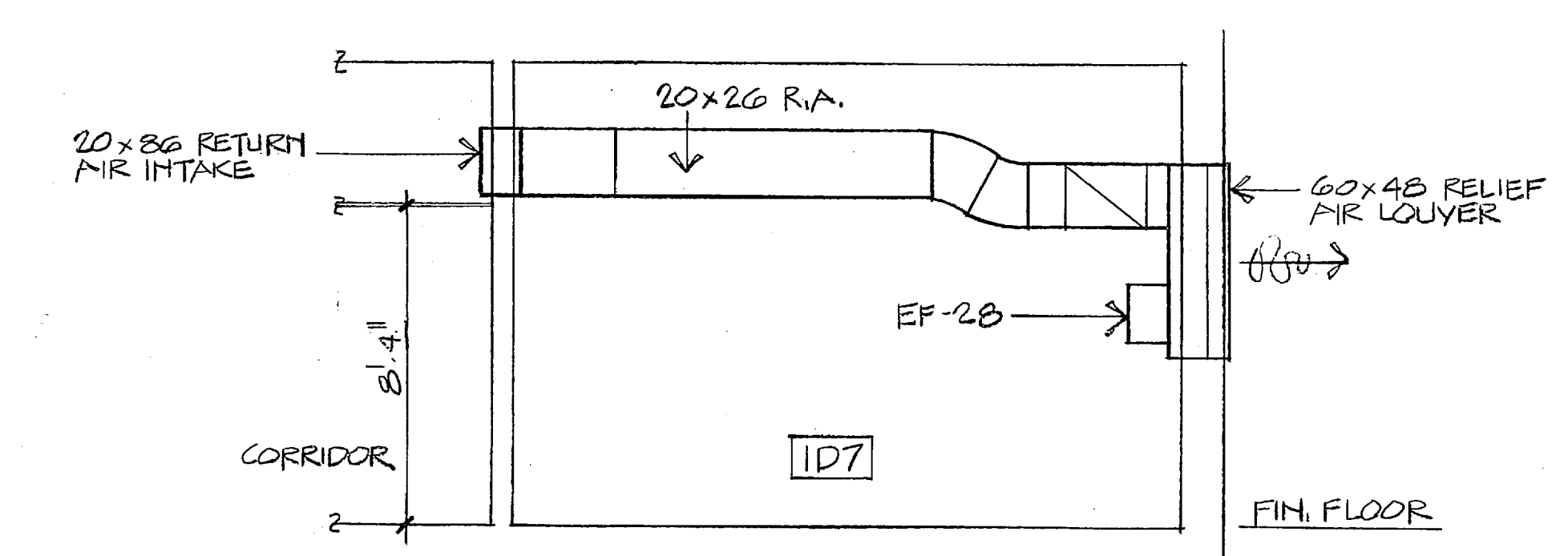
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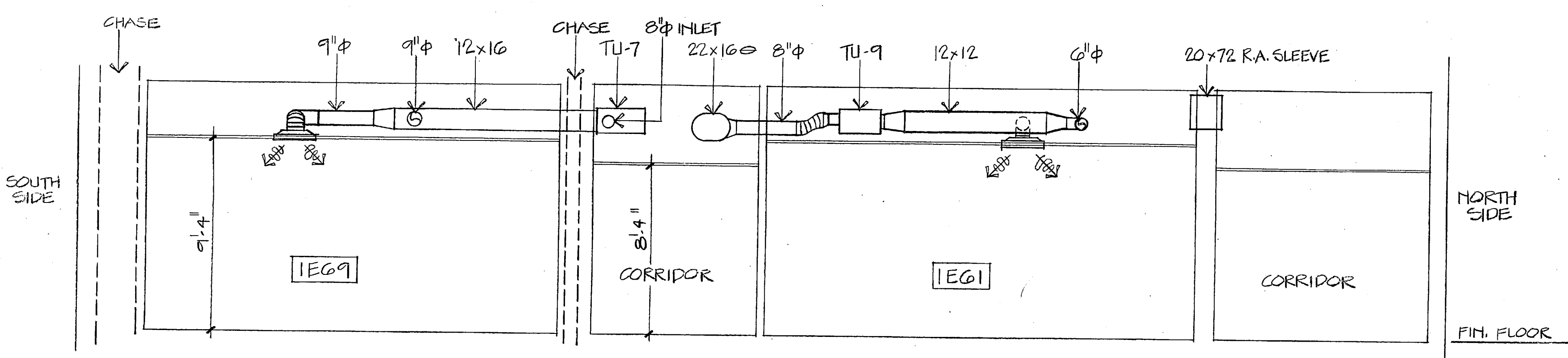
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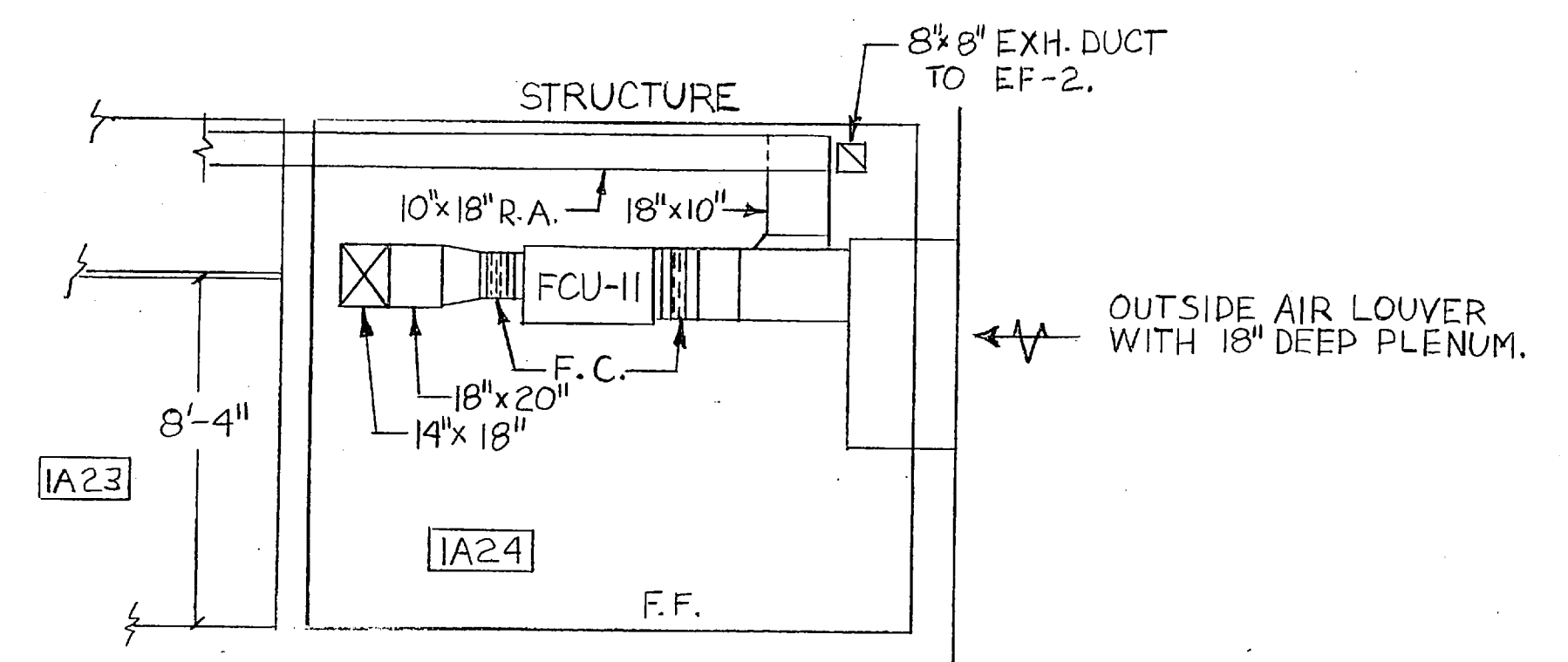
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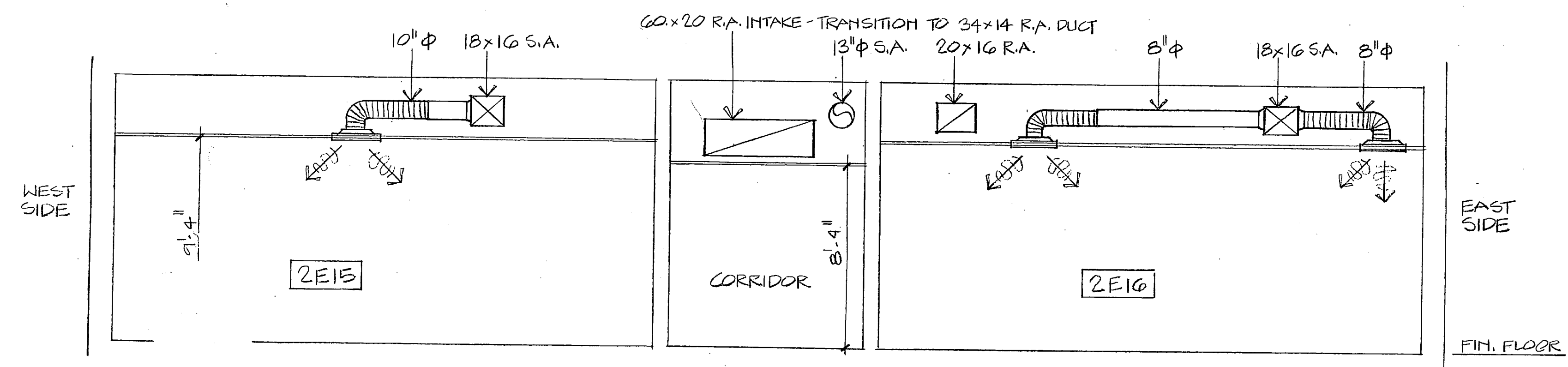
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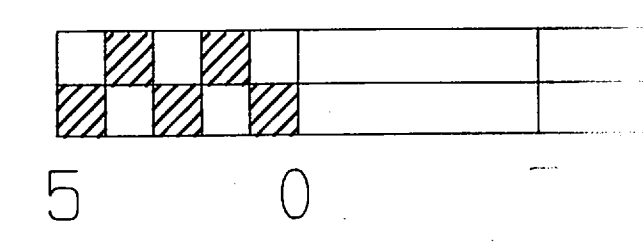
SECTION 7
1/4" = 1'-0"



SECTION 8
1/4" = 1'-0"



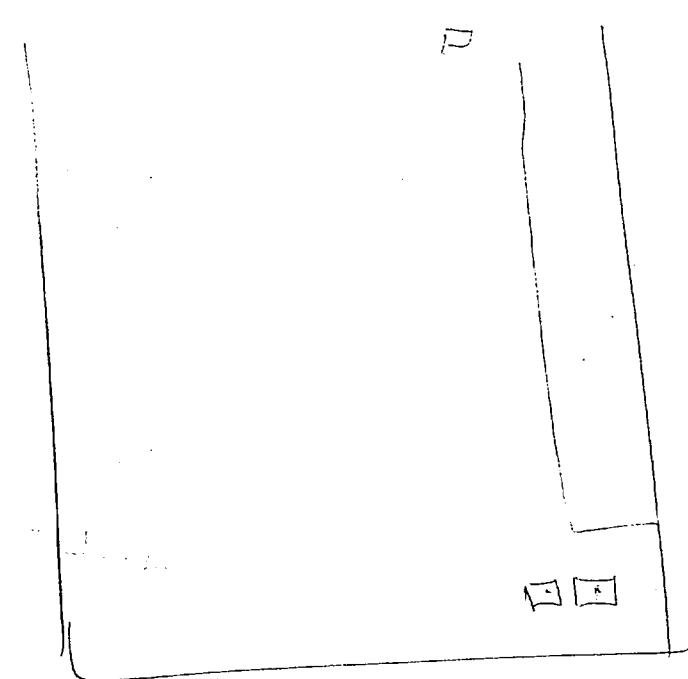
SECTION 9
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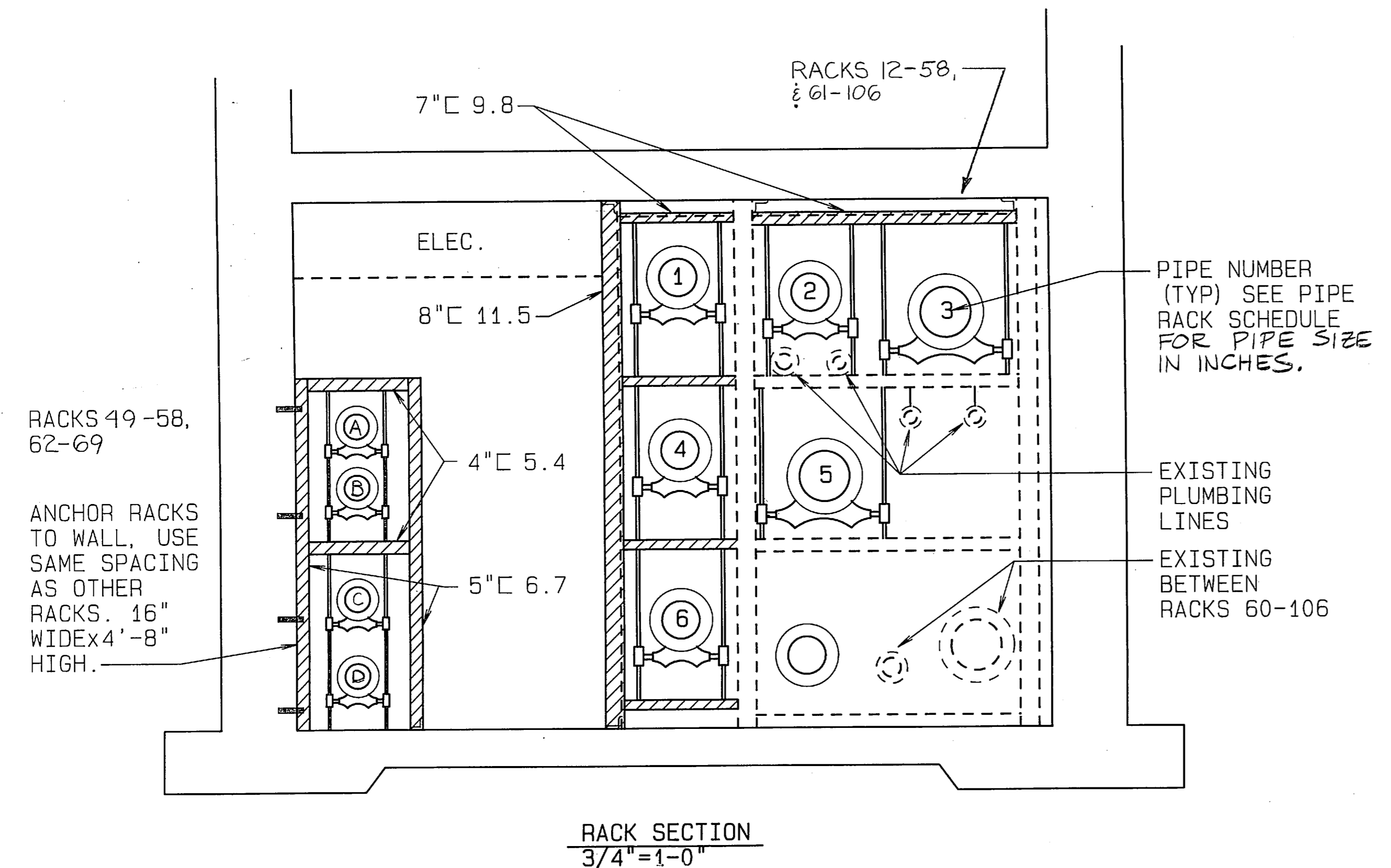
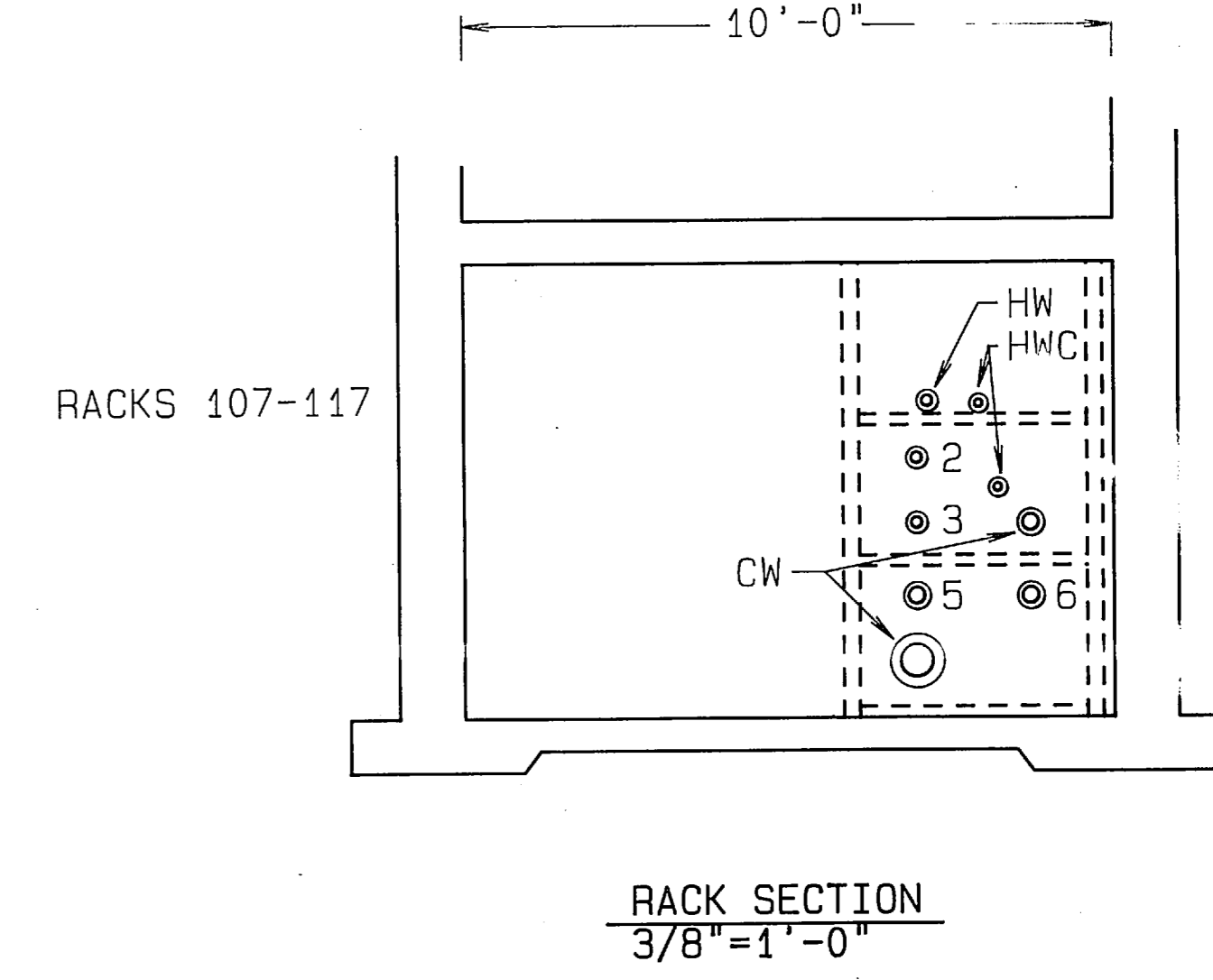
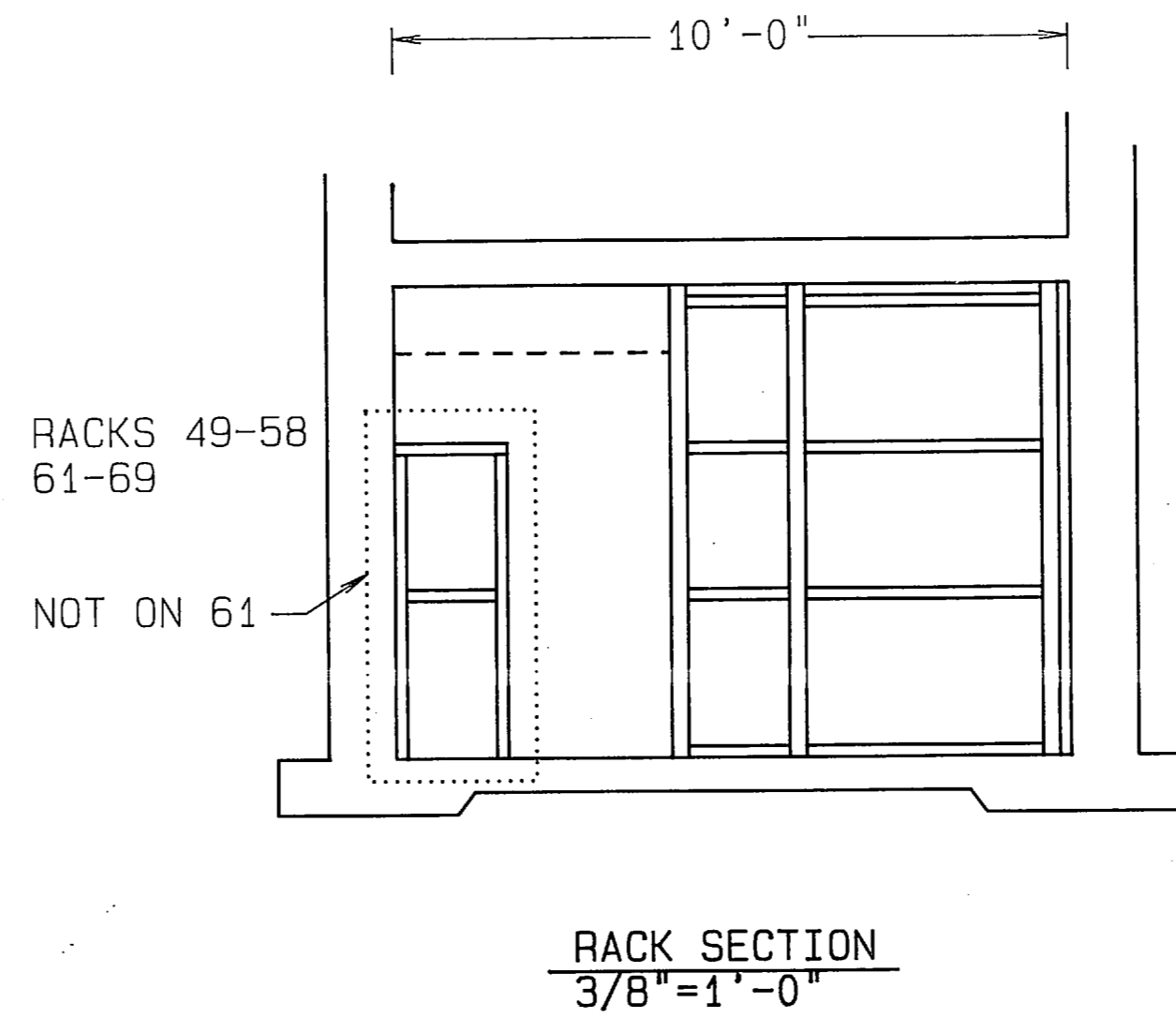
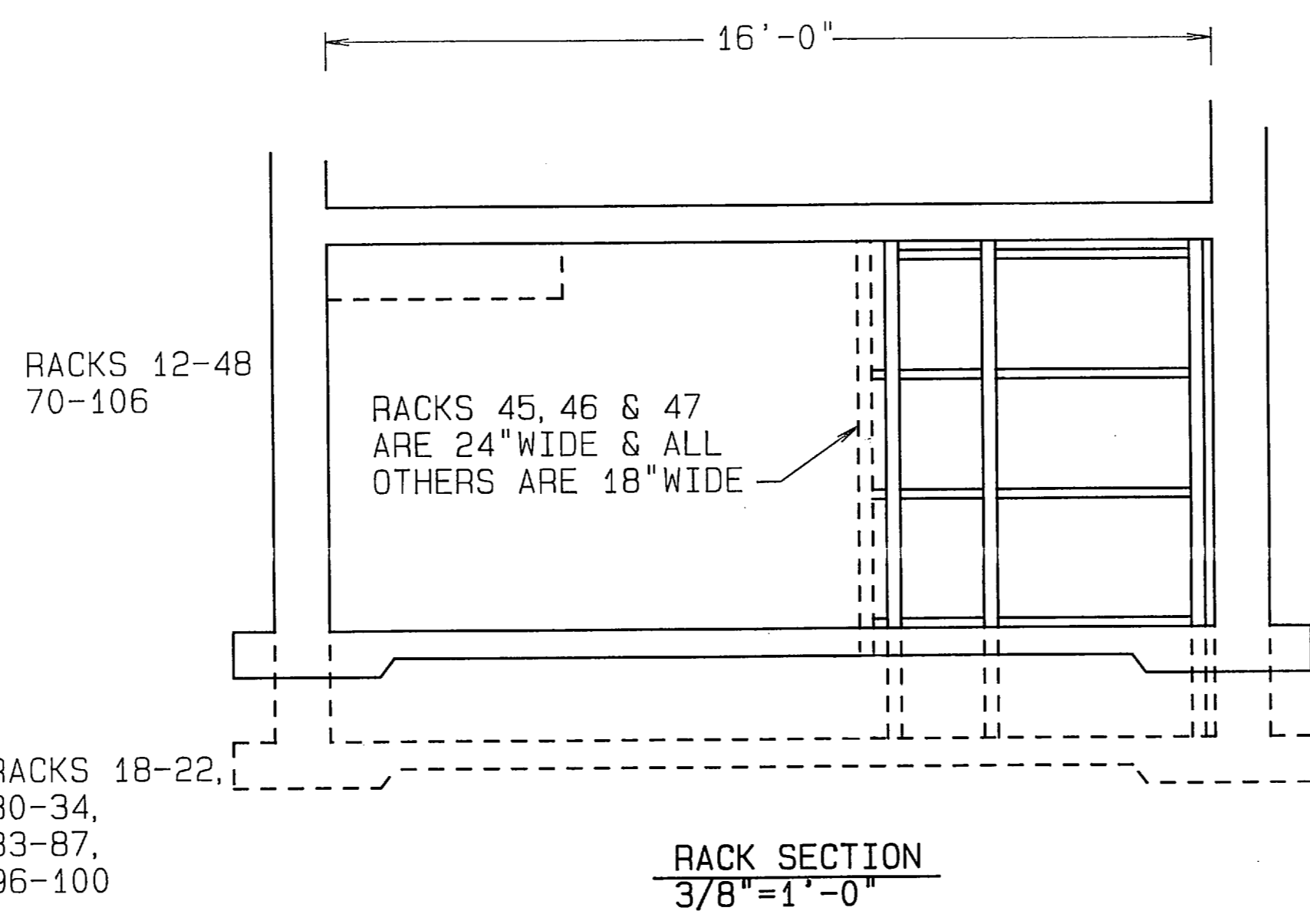
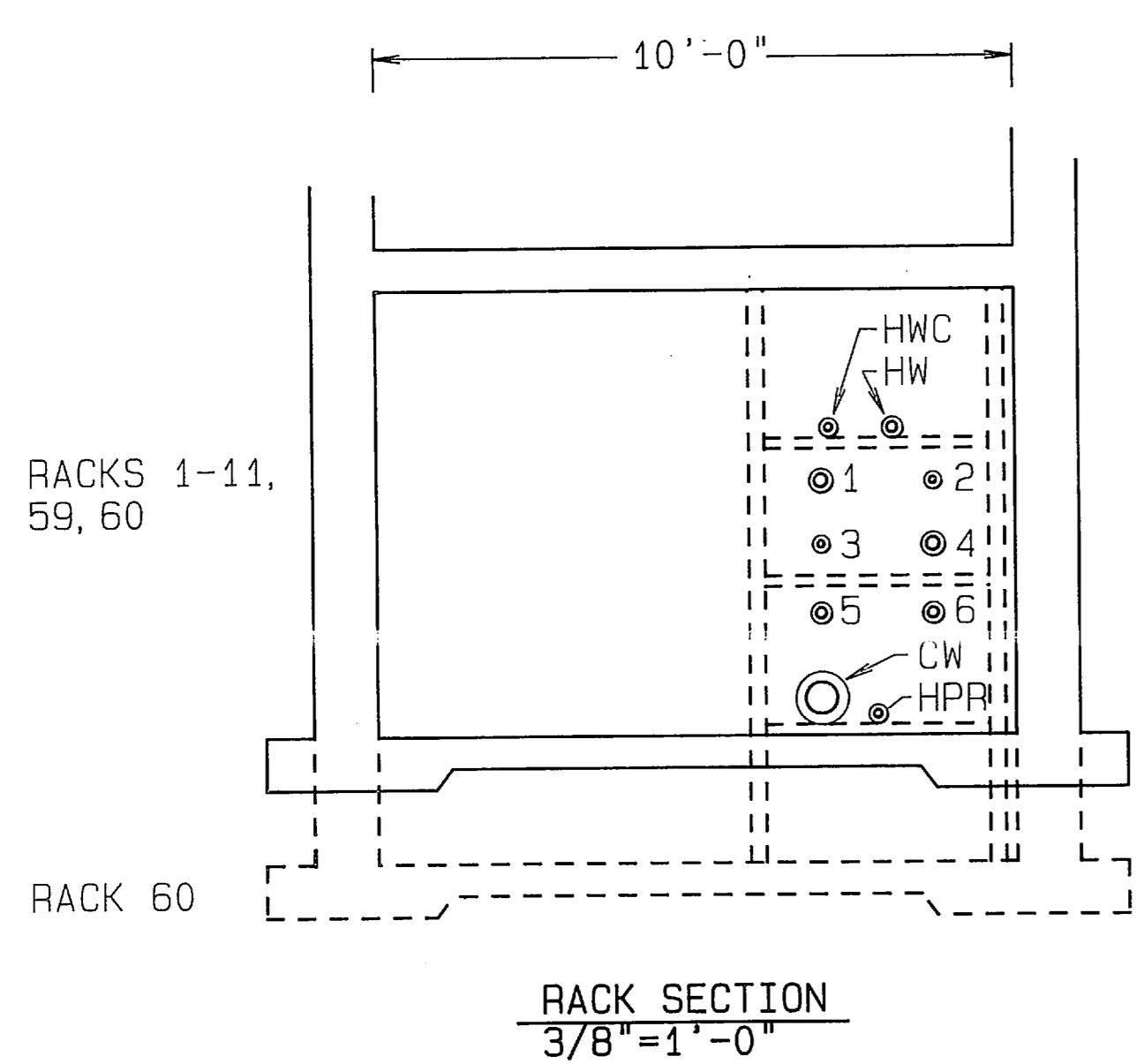
1, GRAPHIC SCALE

FEREBEE, WALTERS & ASSOCIATES
ARCHITECTURE
PLANNING
CHARLOTTE
LANDSCAPE DESIGN
INTERIOR DESIGN
NORTH CAROLINA
DEPARTMENT OF NAVAL FACILITIES
NAVAL S. MARINE DIVISION

DIVISION



SYM	DES.	DATE	APPROVED
1	GENERAL REVISION	2/1/80	



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	65	4	6	8	4	6	6
1	-	1/2	1	-	-	-	66	-	-	-	-	-	-
2	-	1	1	-	-	-	67	-	6	-	-	-	-
3	2 1/2	1 1/4	1 1/4	2 1/2	2	2	68	-	-	8	-	-	-
4	-	-	-	-	-	-	69	-	-	-	4	6	-
5	-	-	-	-	-	-	70	4	-	-	-	-	6
6	-	-	-	-	-	-	71	4	6	-	-	-	6
7	-	-	-	-	-	-	72	4	-	-	4	-	-
8	-	-	-	-	-	-	73	4	-	-	4	-	-
9	-	-	-	-	-	-	74	2 1/2	-	-	6	-	-
10	-	-	-	-	-	-	75	-	-	-	-	-	-
11	2 1/2	1 1/4	1 1/4	2 1/2	2	2	76	-	-	-	-	-	-
WING B-H	LOOP HWR	PUMP HWR	PUMP CHWR	LOOP HWS	LOOP CHWR	LOOP CHWS	77	-	-	-	-	-	-
12	-	6	6	-	-	4	78	2 1/2	-	-	-	-	-
13	6	-	-	1 1/4	-	-	79	-	-	-	-	-	-
14	6	-	-	2 1/2	-	-	80	-	-	-	-	-	-
15	-	-	-	-	-	-	81	-	-	8	-	-	-
16	-	-	-	-	6	-	82	-	6	-	6	-	-
17	-	-	-	-	4	-	83	-	-	-	6	-	-
18	-	-	-	-	-	6	84	-	6	-	-	-	-
19	-	-	-	-	-	-	85	-	4	-	-	-	-
20	-	-	-	-	-	-	86	-	-	-	-	-	-
21	-	-	-	-	-	-	87	-	-	-	-	-	-
22	-	-	-	-	-	-	88	-	-	-	-	6	8
23	-	-	-	-	-	-	89	-	-	-	4	-	4
24	-	-	-	-	-	-	90	-	-	-	-	-	-
25	-	-	-	4	-	-	91	-	-	-	8	-	-
26	-	-	-	-	-	-	92	2 1/2	-	-	3	-	-
27	-	-	-	-	-	-	93	-	-	-	-	-	-
28	-	-	-	-	3	-	94	-	-	-	-	-	-
29	-	-	-	-	-	6	95	-	-	-	-	-	-
30	-	6	-	-	-	-	96	-	-	-	-	-	-
31	-	-	-	-	-	-	97	-	-	-	-	-	-
32	-	-	-	-	-	-	98	-	-	-	-	-	-
33	-	-	-	-	-	-	99	-	-	-	-	-	-
34	-	-	6	-	-	-	100	-	-	-	-	-	-
35	6	-	-	-	-	-	101	-	-	-	-	-	-
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37	-	-	-	-	-	-	103	2 1/2	-	-	2	-	-
38	-	-	-	-	-	-	104	3	-	8	-	8	3
39	-	-	-	-	-	-	105	3	4	-	-	-	-
40	-	-	-	-	-	-	106	2	-	-	-	3	-
41	-	-	-	-	3	-	WING J	1	2	3	4	5	6
42	-	-	-	-	-	-	107	-	2	2	-	3	3
43	-	-	6	-	-	6	108	-	-	-	-	-	-
44	-	-	-	-	-	-	109	-	-	-	-	-	-
45	-	6	8	-	-	8	110	-	-	-	-	-	-
46	-	-	-	4	-	8	111	-	-	-	-	-	-
47	-	-	-	-	4	8	112	-	-	-	-	-	-
48	-	-	-	-	4	8	113	-	-	-	-	-	-
49	-	-	-	-	6	6	114	-	-	-	-	-	-
50	-	-	-	-	-	-	115	-	-	-	-	-	-
51	-	-	-	-	-	-	116	-	-	-	-	-	-
52	-	-	-	-	-	-	117	-	-	-	-	-	-
53	-	-	-	-	-	-							
54	-	-	-	-	-	-							
55	-	-	-	-	-	-							
56	-	-	-	-	-	-							
57	-	-	-	-	-	-							
58	-	-	-	-	6	-							
59	-	-	-	-	-	-							
60	4	6	8	4	6	6							
61	-	-	-	-	-	-							
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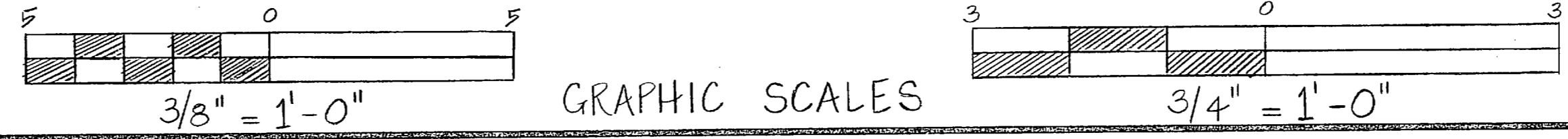
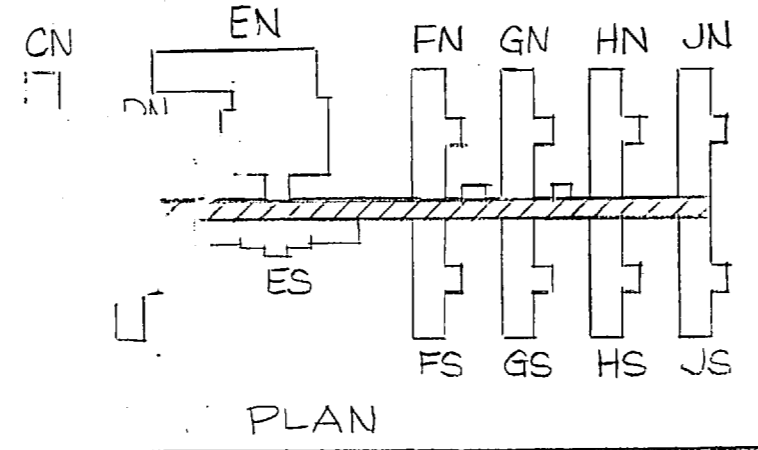
PIPE RACK

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

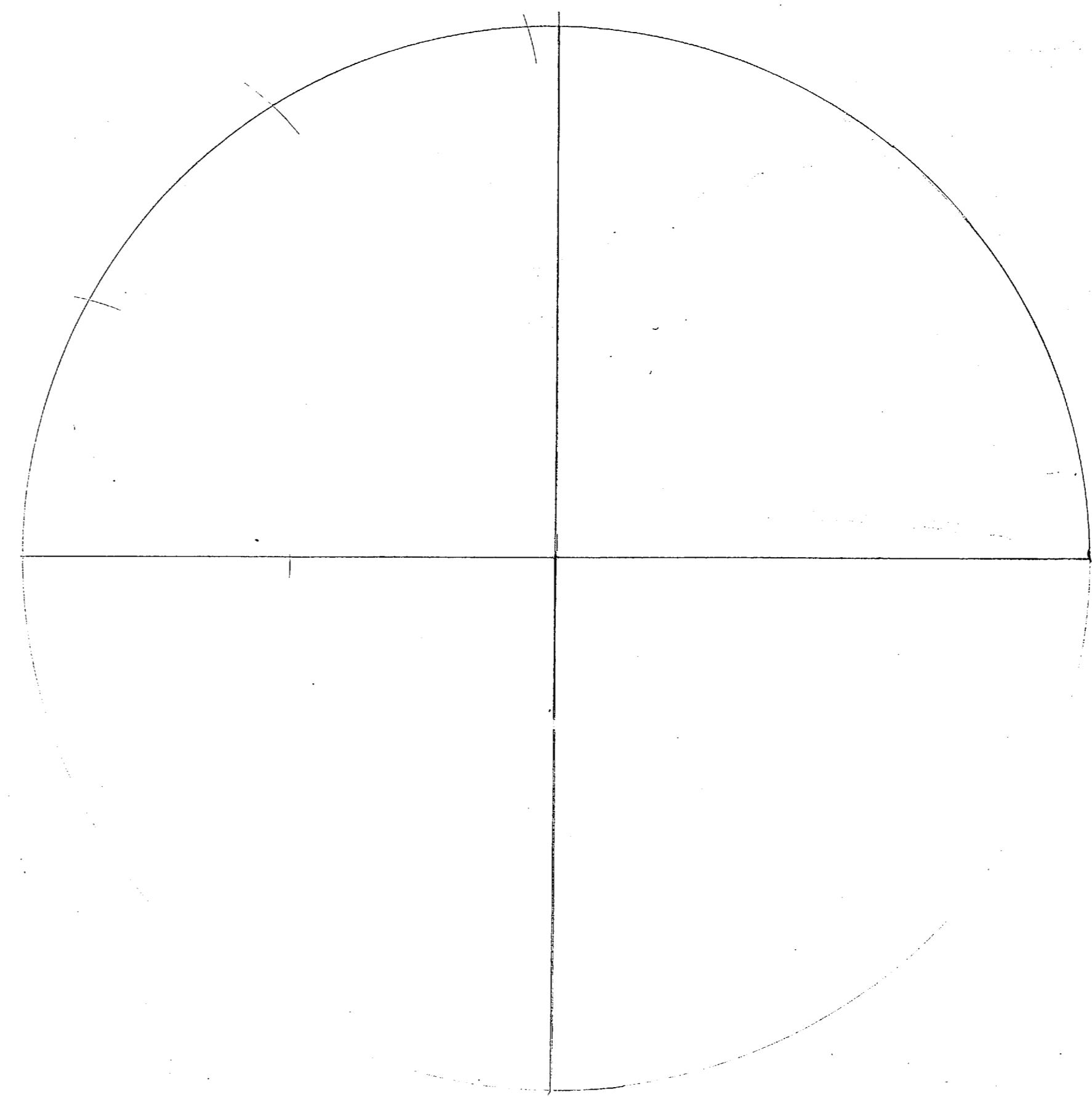
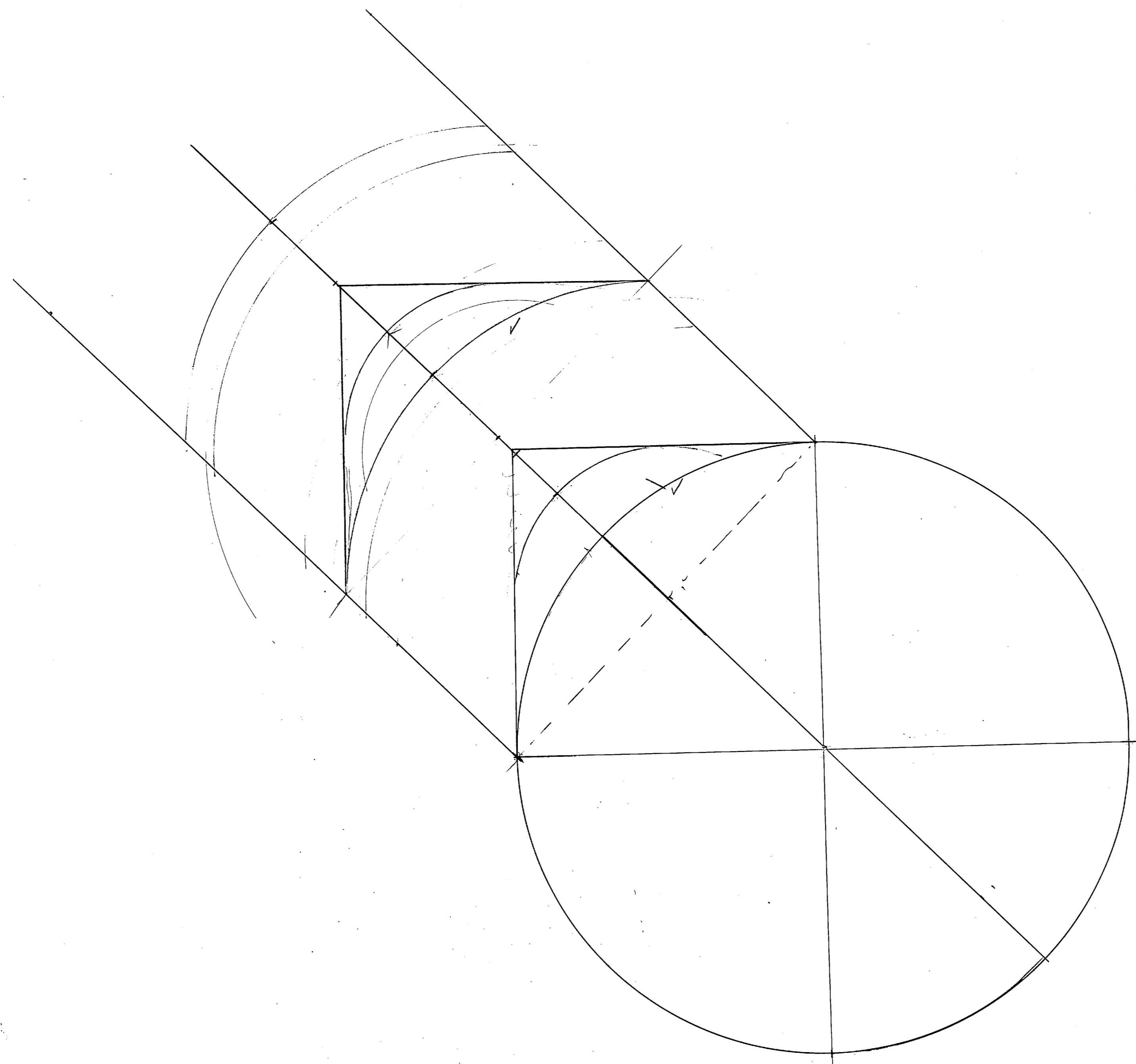
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CW	COLD WATER (DOMESTIC) - PLUMBING
DTS	DUAL TEMPERATURE SUPPLY
DTR	DUAL TEMPERATURE RETURN
HPR	HIGH PRESSURE RETURN
HPS	HIGH PRESSURE SUPPLY
HW	HOT WATER (DOMESTIC) - PLUMBING
HWC	HOT WATER CIRCULATING (DOMESTIC) - PLUMBING
HWR	HOT WATER RETURN
HWS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

- NOTES
1. ALL PIPE RACKS ARE EXISTING AND ARE TO REMAIN.
 2. SEE SHEET M-10 FOR LOCATION OF RACKS IN THE TUNNEL.
 3. PIPE WORK SHALL BE COORDINATED WITH PROJECT PHASES.
 4. STEAM LINE SHALL BE LEFT INTACT UNTIL THE HOT WATER PIPING SYSTEM IS OPERATIONAL.
 5. CHILLED WATER PIPING SHALL BE INSTALLED AFTER THE STEAM PIPING IS REMOVED.
 6. REPLACE ALL EXISTING JOINTS IN THE 3" HPS LINE FROM RACK 59 THRU RACK 105. SEE SHEET M-2 FOR LOCATION.
 7. COORDINATE WORK WITH SHEETS M-2, M-51, P-10, AND P-36.
 8. RACKS ARE VIEWED AS STANDING ON THE WEST SIDE OF THE TUNNEL, LOOKING IN THE EAST DIRECTION. RACKS ARE ADJACENT TO THE SOUTH WALL OF THE TUNNEL.
 9. NEW RACKS SHALL BE BOLTED SIMILAR TO EXISTING RACKS. SECURE TO TUNNEL WALLS, CEILINGS AND FLOORS TO PREVENT MOVEMENT AND STRESS.

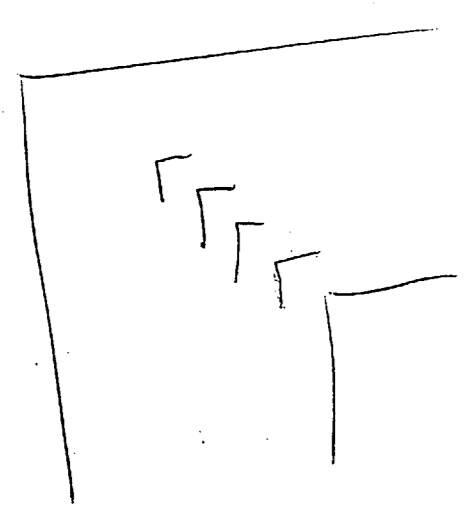


M-45

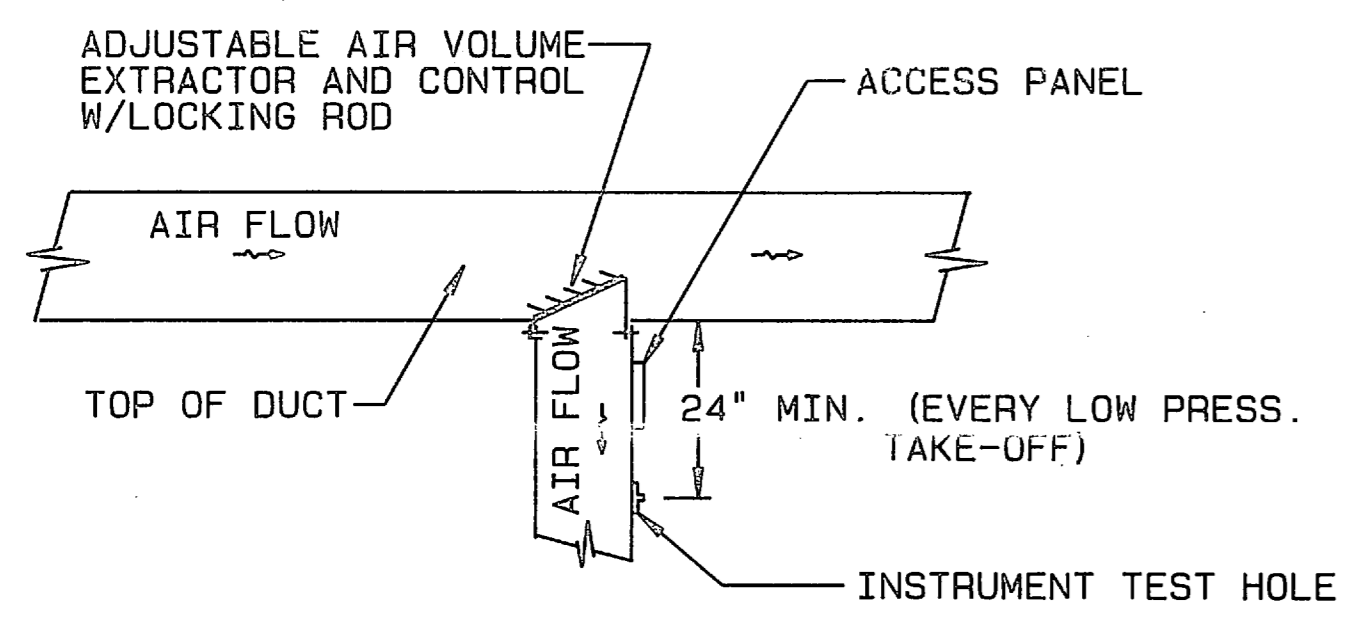
FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE, NORTH CAROLINA	DEPARTMENT OF THE NAVY NAVAL STATION ATLANTIC DIVISION	NAVAL FACILITIES ENGINEERING COMMAND DIVISION
DESIGNED BY: [Signature] PROJECT MANAGER: [Signature] SUBMITTED BY: [Signature] FIRM MEMBER: [Signature]	DR. J. W. [Signature] CHIEF ENGINEER: [Signature] MARINE CORPS ENGINEER: [Signature]	CAMP LEJEUNE DIVISION HEADQUARTERS



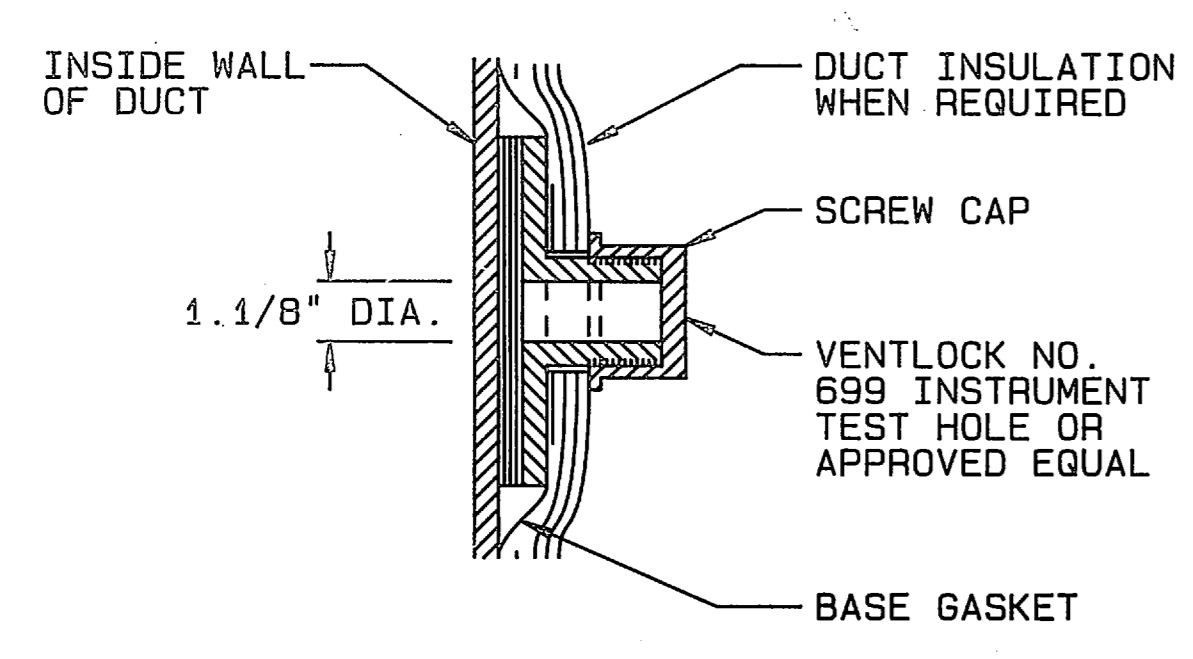
2/2 第 2 页
2 第 2 页



REVISIONS			
NO.	DESCRIPTION	PREP'D BY	DATE
1	REVISION	GHS	2/15/50
2		CF	

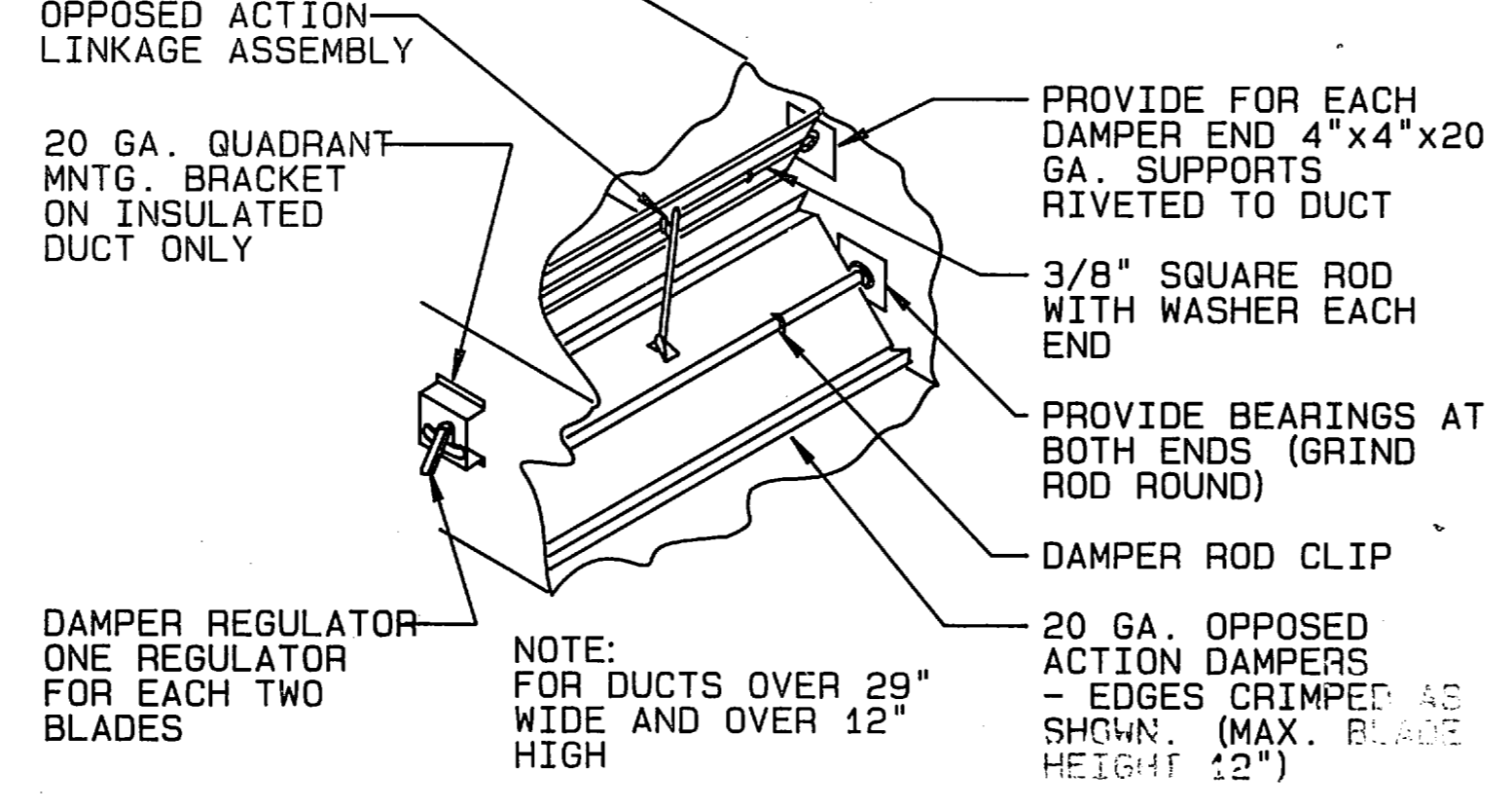
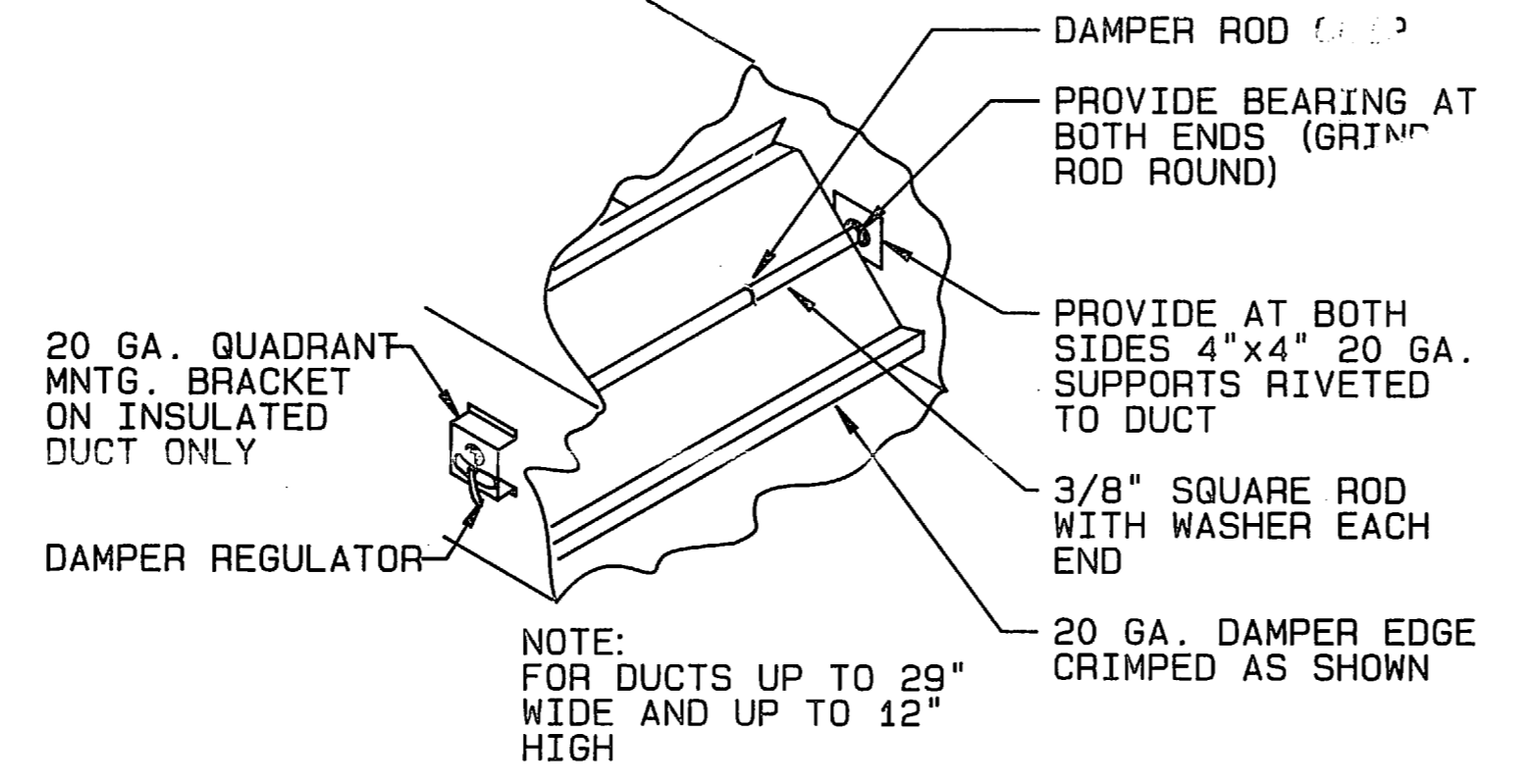


BRANCH TAKE-OFF
(WHERE BRANCH CFM IS LESS THAN 25% OF MAIN CFM)

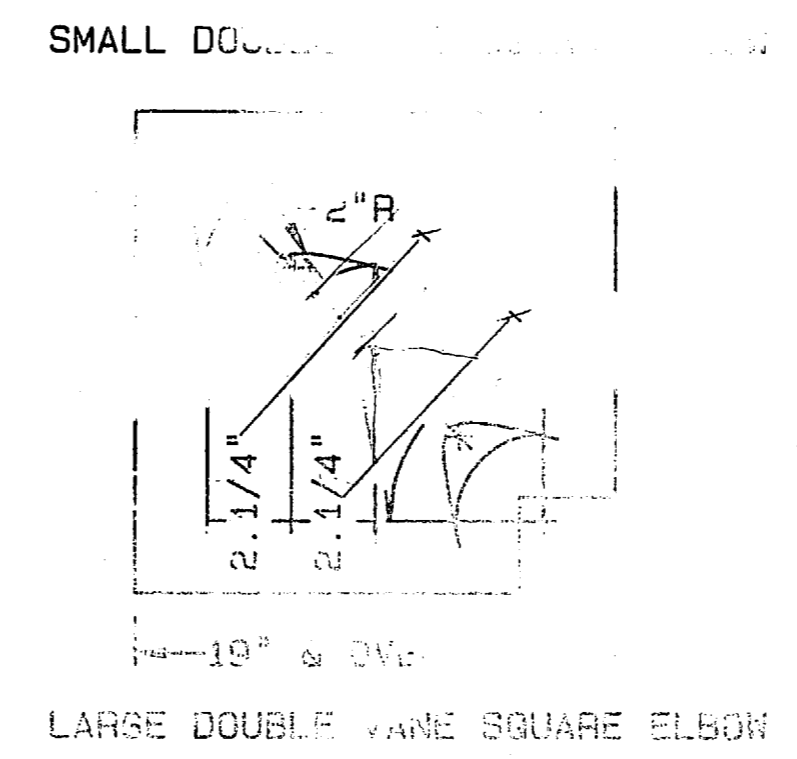
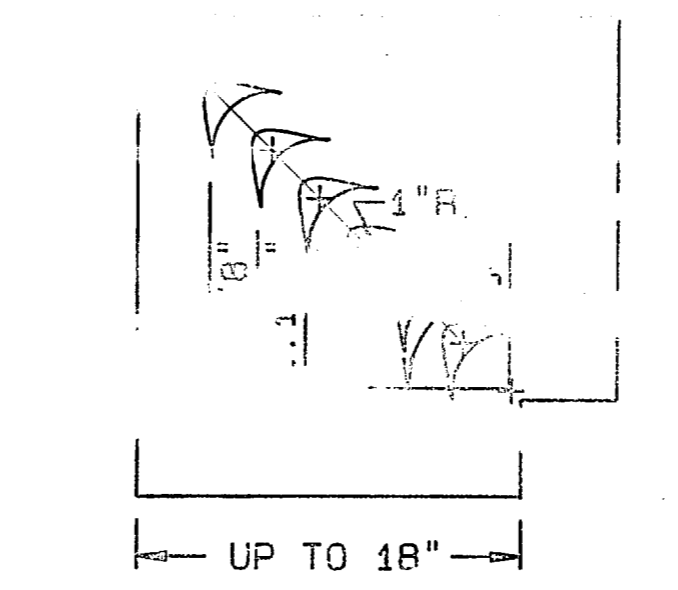


INSTRUMENT TEST HOLE

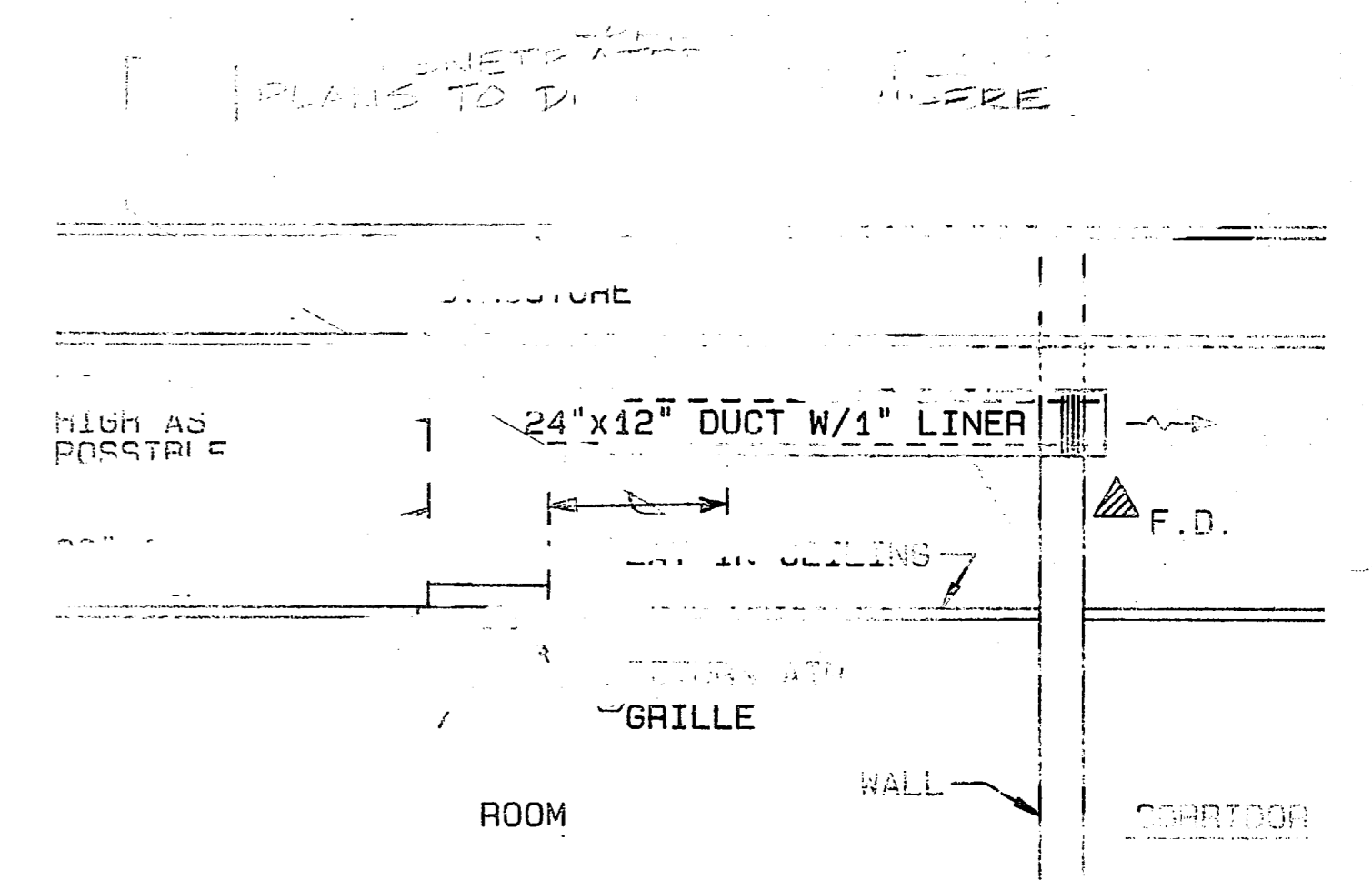
A LOW PRESSURE DUCTWORK FITTINGS
NO SCALE



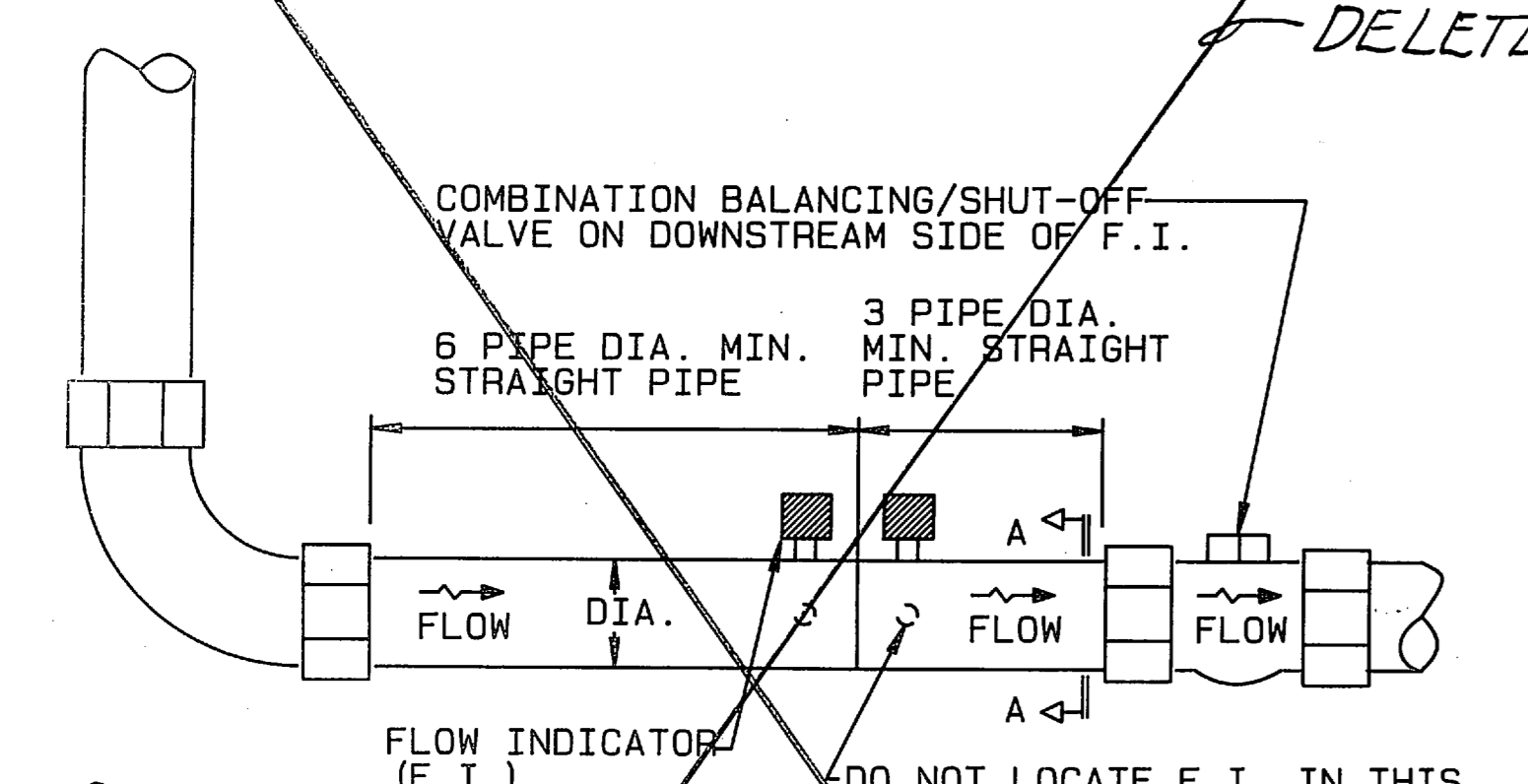
B LOW PRESSURE BALANCING DAMPER
NO SCALE



C LOW VELOCITY DAMPER
NO SCALE

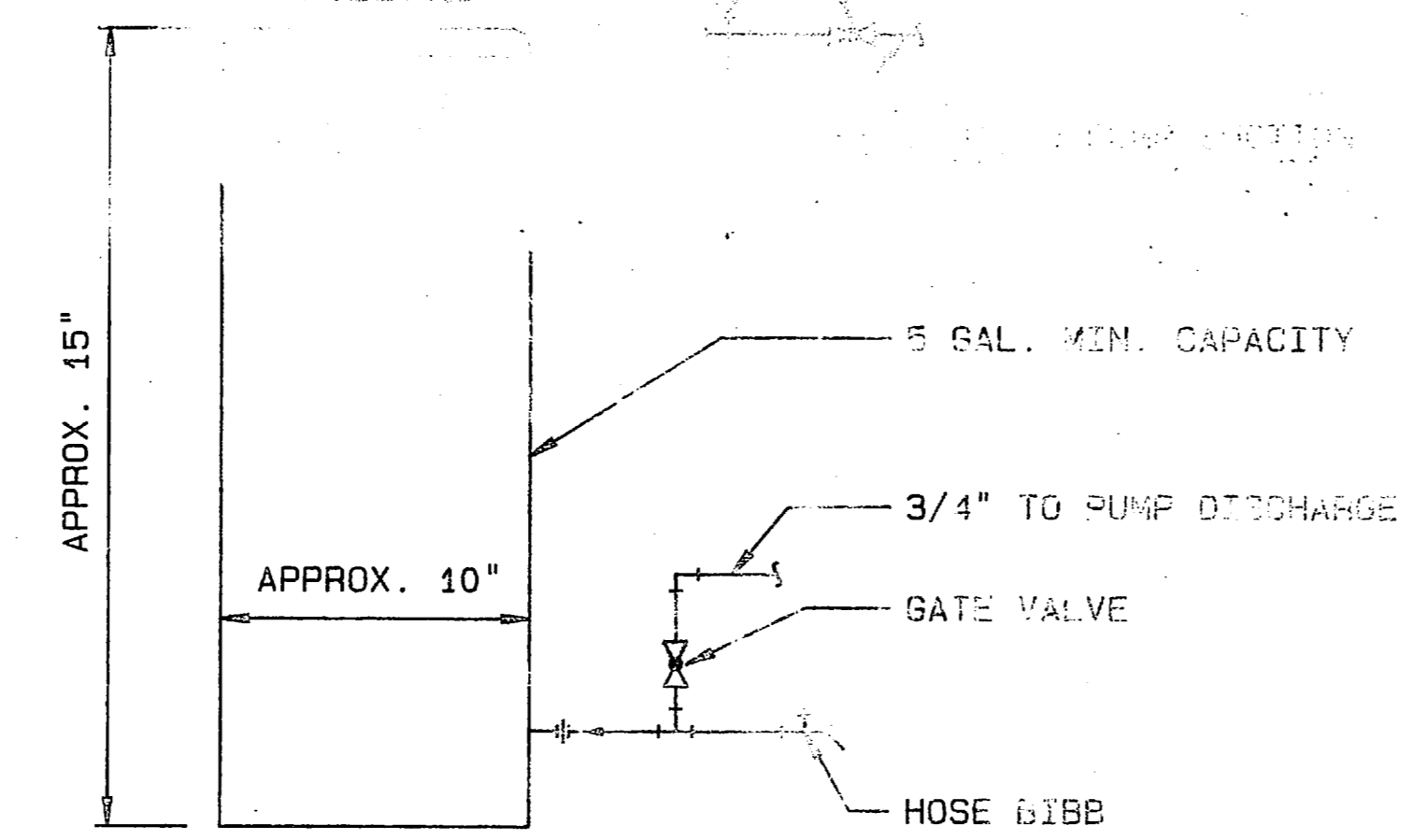


D RETURN GRILLE & DUCT DETAIL
NO SCALE

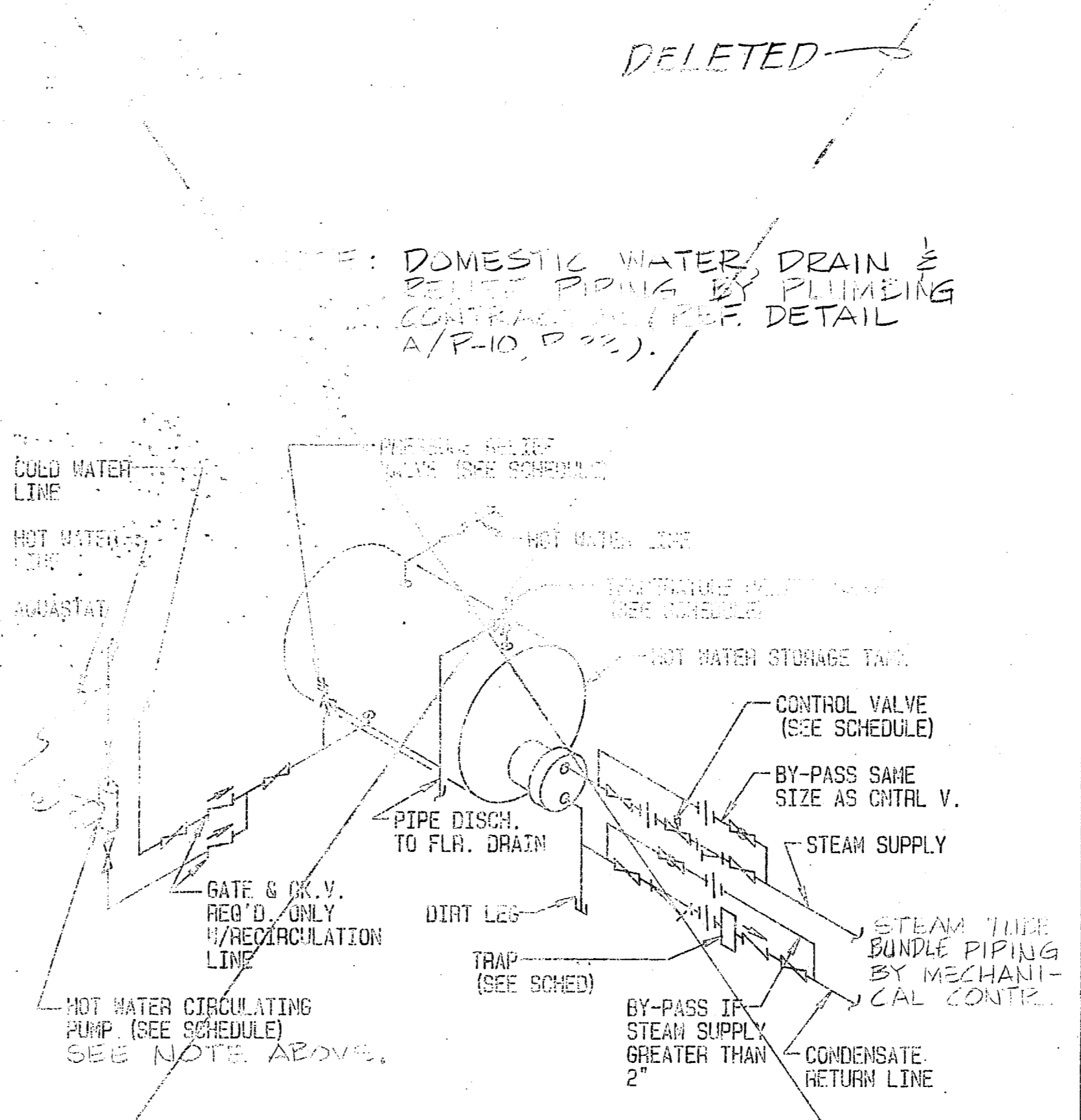


- NOTES:
1. ONLY STRAIGHT PIPE IS TO BE WITHIN MINIMUM UPSTREAM & DOWNSTREAM DIM., NO FITTINGS OR VALVES ARE ALLOWED.
 2. F.I. & VALVES SHALL BE ORIENTED FOR EASY ACCESS. IF TOP OF PIPE IS CLOSE TO STRUCTURE OR OBSTRUCTIONS, ARRANGE PIPING TO LOCATE VALVE OPERATOR & F.I. CONNECTIONS ON SIDE OF PIPE. NO VALVE SHALL BE INSTALLED WITH THE OPERATOR BELOW THE HORIZONTAL.

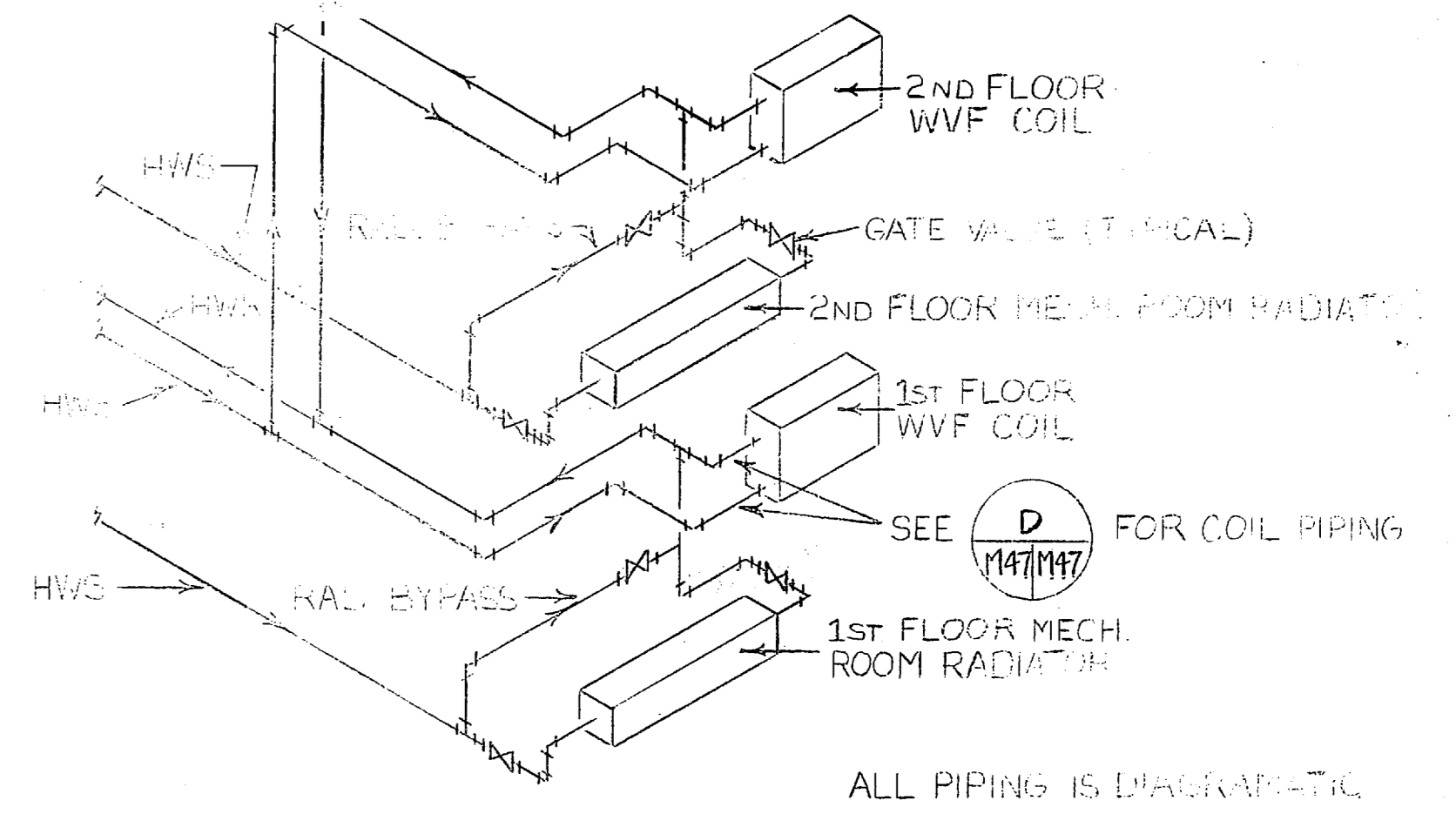
E FLOW INDICATOR (F.I.) DETAIL
NO SCALE



F SHOT FEEDER
NO SCALE



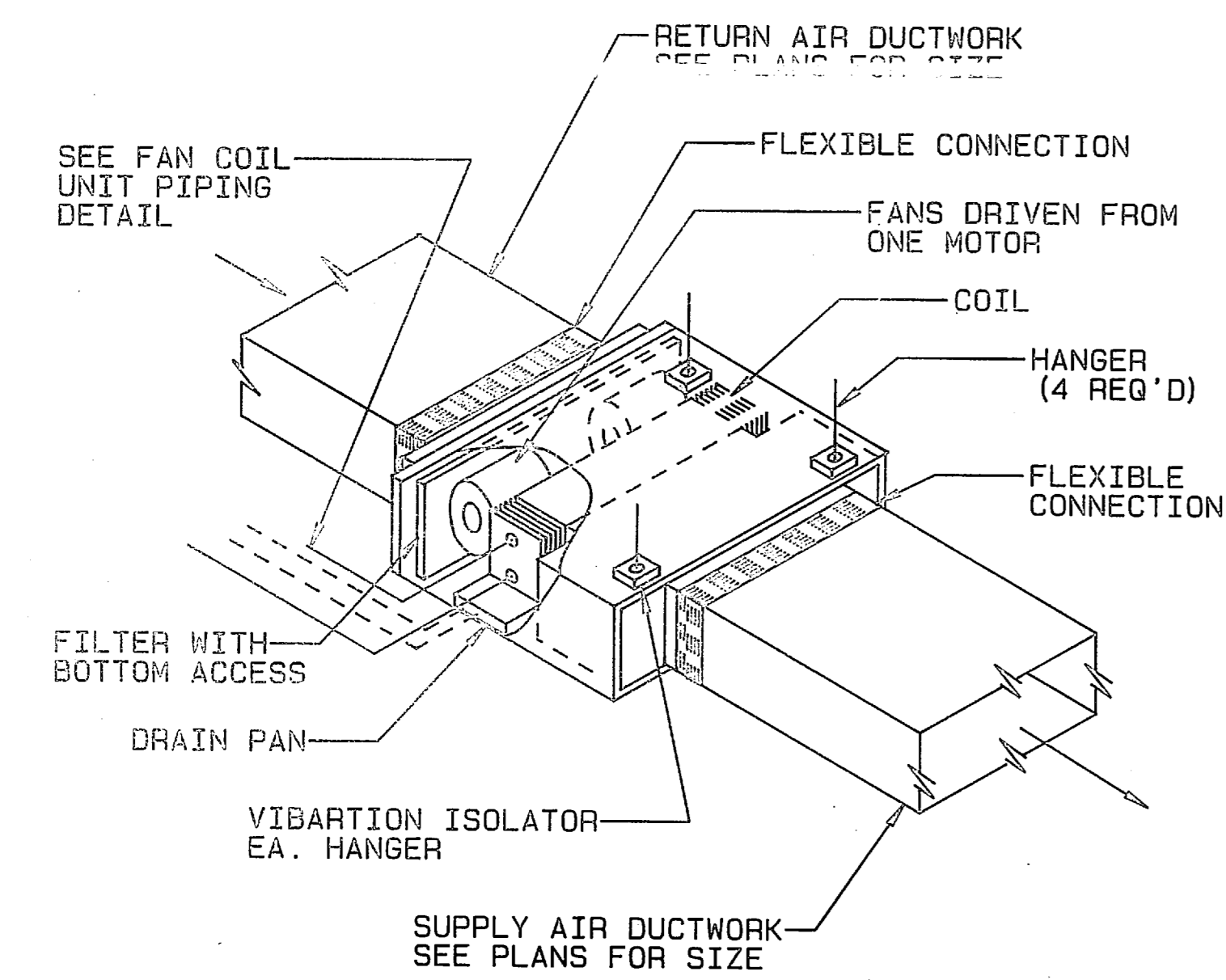
G STEAM DOMESTIC H.W. HEATER PIPING
NO SCALE



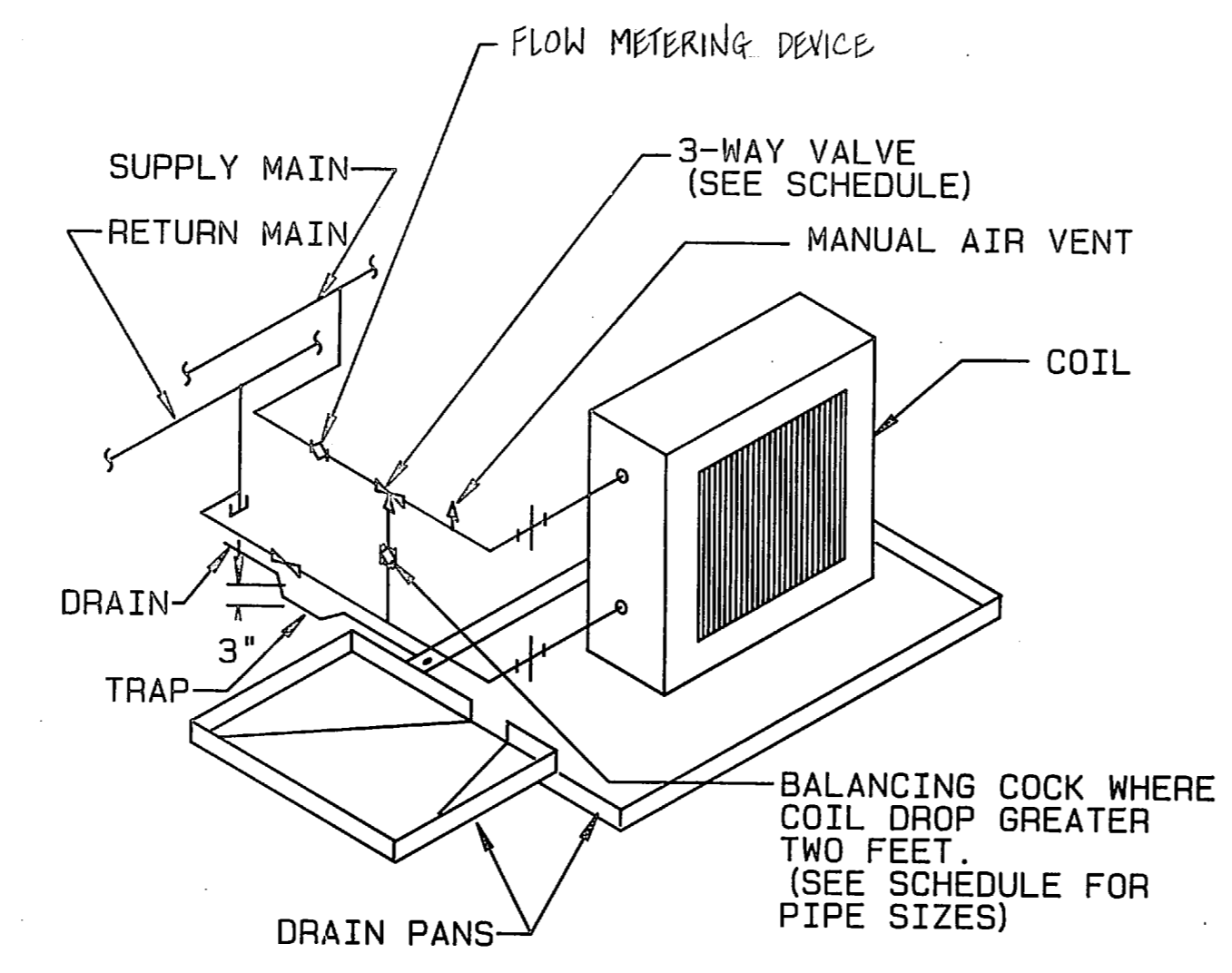
H MECH. ROOM HOT WATER PIPING SCHEMATIC
NO SCALE

FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE NORTH CAROLINA LANDSCAPE DESIGN INTERIOR DESIGN		DEPARTMENT OF THE NAVY NAVAL STATION ATLANTIC DIVISION NORFOLK, VIRGINIA	
PROJECT: MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA SUBMITTED BY: <i>Barbara C. Dixon</i> DATE: 6/10/50 DRAWN BY: <i>Barbara C. Dixon</i> DATE: 6/10/50 CHECKED BY: <i>Barbara C. Dixon</i> DATE: 6/10/50 ENGINEER: <i>Barbara C. Dixon</i> DATE: 6/10/50		MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA CONVERT HOSPITAL TO DIVISION HEADQUARTERS MECHANICAL DETAILS	
APPROVED: <i>[Signature]</i> DATE: 2/15/50 OFFICER IN CHARGE	SIZE: F CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 4124314 CONSTR. CONTR. NO. N62470-82-B-201	M-46 SHEET 59 OF 20 EFD DWG. NO. 224314

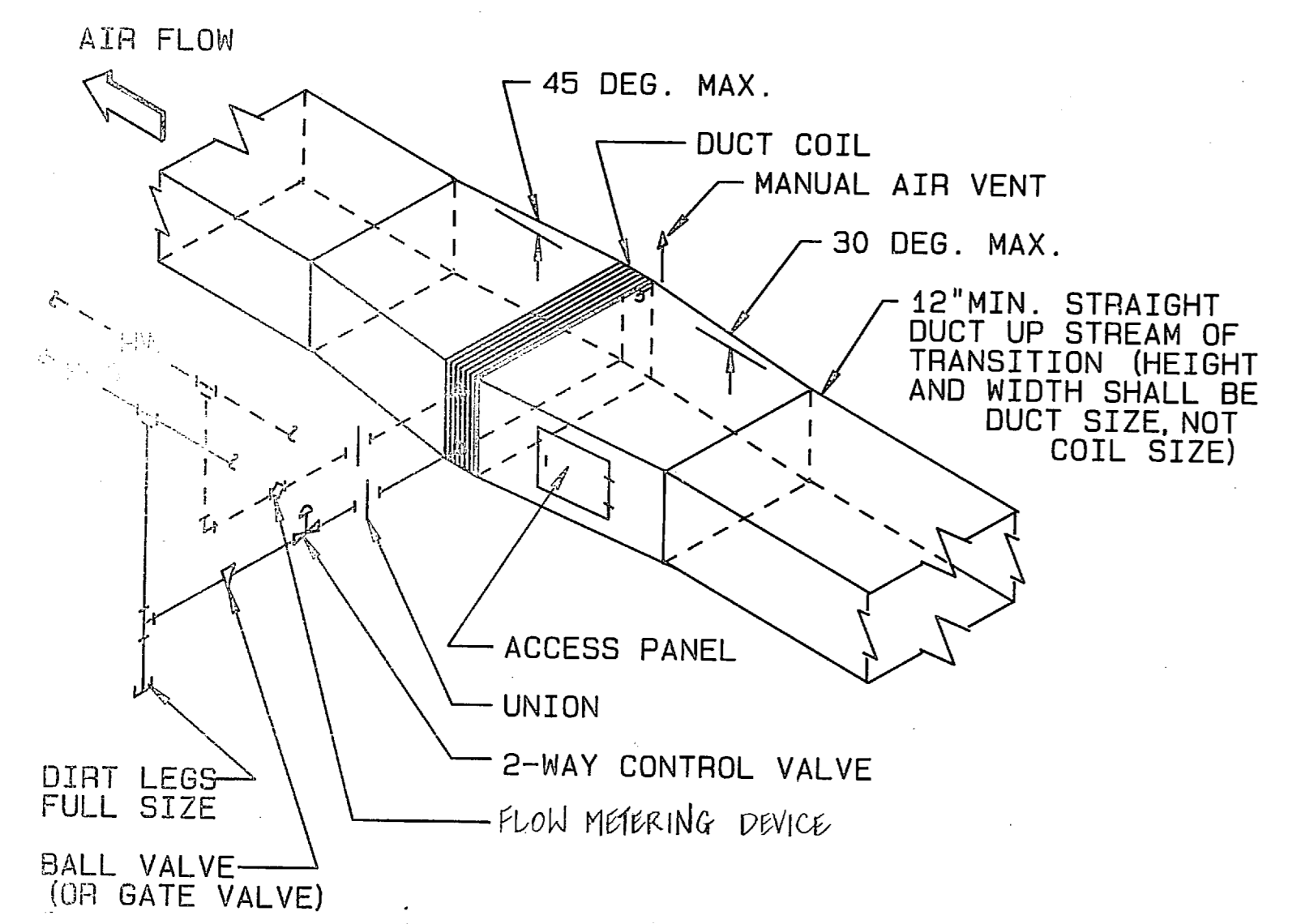
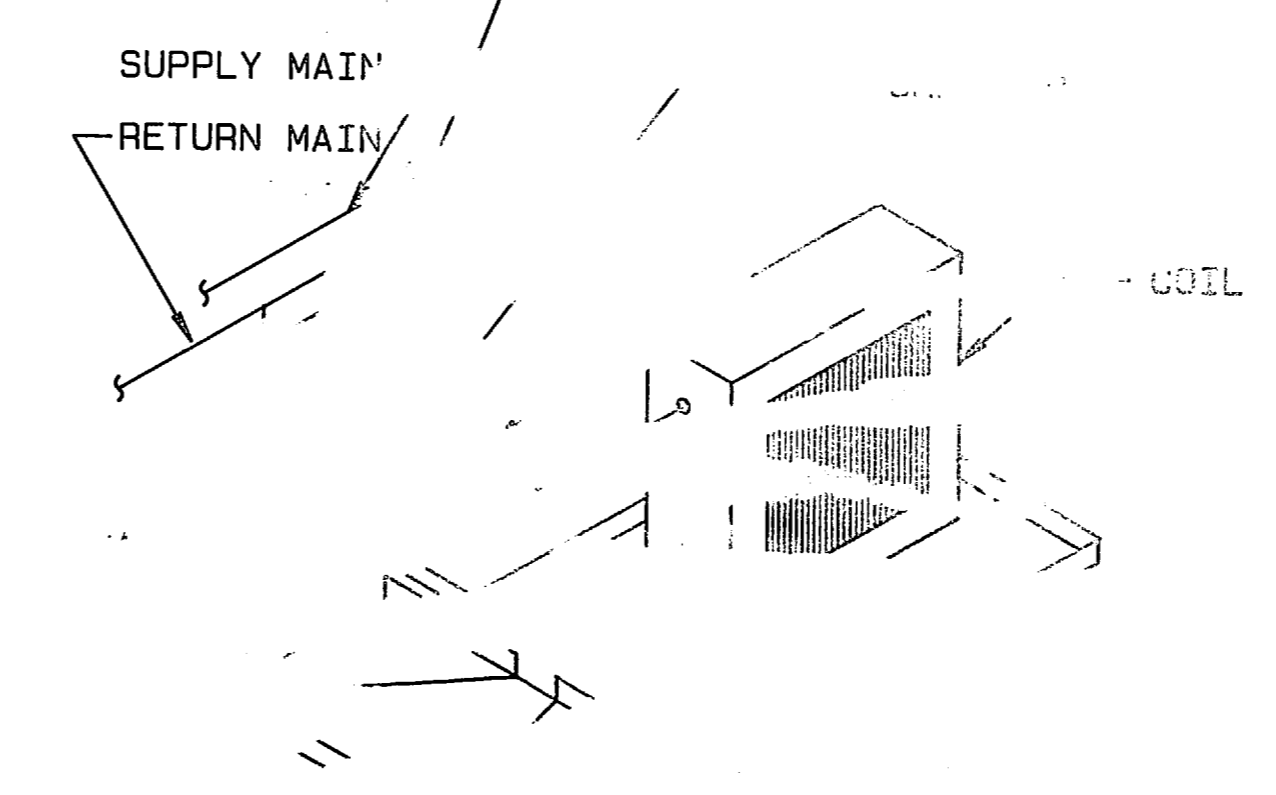
SYM	DESCRIPTION	PREP BY	DATE	APPROVED
I	GENERAL REVISION	GHS	2/15/81	[Signature]



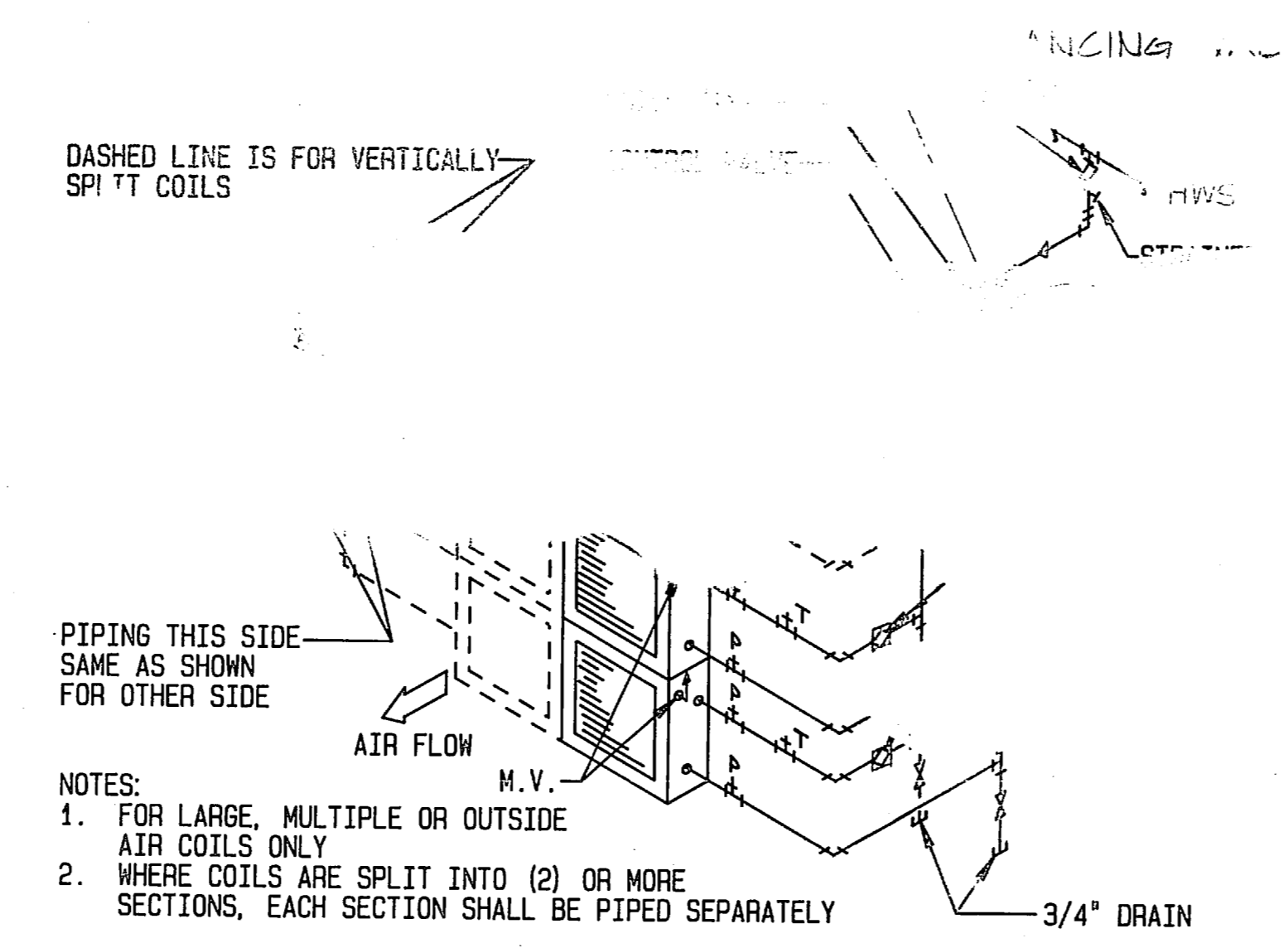
A HORIZONTAL CONCEALED FAN COIL UNIT
NO SCALE



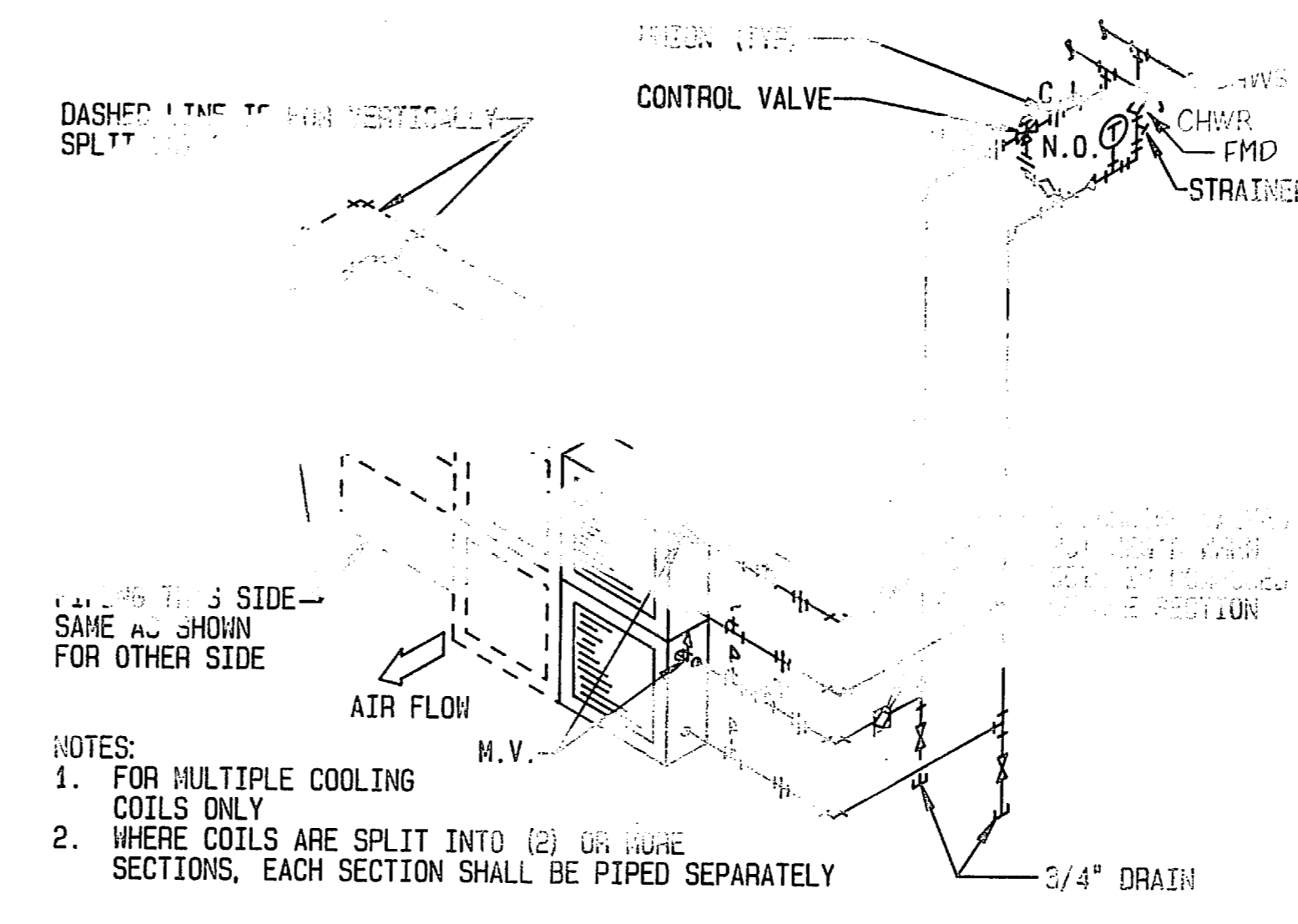
B FAN COIL
NO SCALE



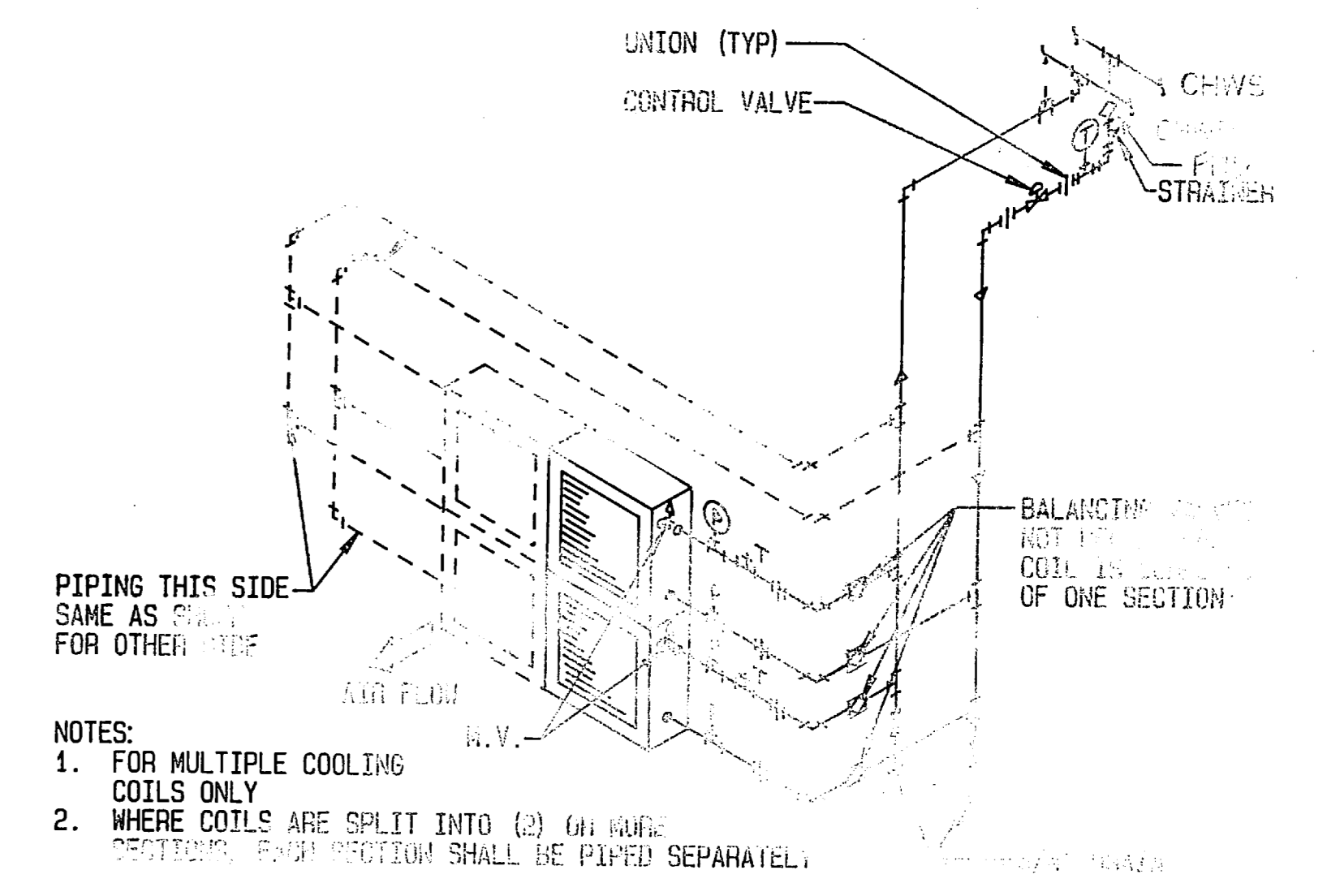
E HOT WATER DUCT COIL
NO SCALE



F HOT WATER HEATING COIL PIPING
NO SCALE



G COOLING COIL PIPING DIAGRAM
NO SCALE (2-WAY VALVE)



H COOLING COIL PIPING DIAGRAM
NO SCALE (2-WAY VALVE)

FEREBEE, WALTERS & ASSOCIATES ARCHITECTURE PLANNING CHARLOTTE, NORTH CAROLINA

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING DIVISION ATLANTIC DIVISION NAVAL STATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

CONVERT NO. DIVISION

DATE: 2/15/81

BY: GHS

APP'D: [Signature]

CONTROL VALVE SCHEDULE

TAG	SERVICE	FLOW		PRESSURE DROP		LINE SIZE	FLUID	REMARKS	TAG	SERVICE	FLOW		PRESSURE DROP		LINE SIZE	FLUID	REMARKS
		#/HR	GPM	PSI	CV						PSI	CV					
V-1	AHU-1A5	32	---	---	16	1/4"	CHW	3-WAY	V-76	PCU-19	---	---	---	---	---	---	---
2	1B5	53	---	---	25	1/2"	---	---	77	20	2.0	5.0	---	1/2"	DTW	2-WAY	---
3	1B5	46	---	---	25	1/2"	---	---	78	21	2.0	5.0	---	1/2"	---	---	---
4	1CN	35	---	---	16	1/4"	---	---	79	22	1.5	5.0	---	1/2"	---	---	---
5	1CS	40	---	---	25	1/2"	---	---	80	23	1.0	---	6.3	3/4"	---	---	---
6	2CN	42	---	---	25	1/2"	---	---	81	24	2.0	5.0	---	1/2"	---	---	---
7	2CS	38	---	---	25	1/2"	---	---	82	25	1.5	---	---	---	---	---	---
8	1DN	26	---	---	16	1/4"	---	---	83	26	1.5	---	---	---	---	---	---
9	1DS	44	---	---	25	1/2"	---	---	84	27	1.5	---	---	---	---	---	---
10	2DS	41	---	---	25	1/2"	---	---	85	28	2.0	---	---	---	---	---	---
11	1ES	46	---	---	25	1/2"	---	---	86	29	1.5	---	---	---	---	---	---
12	1EST	9	---	---	4	1/2"	---	---	87	30	2.0	---	---	---	---	---	---
13	2EN	17	---	---	10	1/2"	---	---	88	31	2.0	---	---	---	---	---	---
14	2EN(5B)	14	---	---	5	1/2"	---	---	89	32	6.5	---	4.0	---	---	---	---
15	2ES	49	---	---	25	1/2"	---	---	90	33	11.0	---	---	3/4"	CHW	---	---
16	3EN	16	---	---	10	1/2"	---	---	91	34	2.0	5.0	---	1/2"	HW	---	---
17	3EN	26	---	---	16	1/4"	---	---	92	35	1.0	5.0	---	1/2"	HW	---	---
18	3ES	48	---	---	25	1/2"	---	---	93	36	1.0	---	6.3	3/4"	CHW	---	---
19	1FN	36	---	---	16	1/4"	---	---	94	37	2.0	5.0	---	1/2"	CHW	---	---
20	1FS	38	---	---	25	1/2"	---	---	95	38	1.5	---	---	---	---	---	---
21	2FN	36	---	---	16	1/4"	---	---	96	39	1.5	---	---	---	---	---	---
22	2FS	37	---	---	25	1/2"	---	---	97	40	2.0	5.0	---	1/2"	---	---	---
23	1GN	35	---	---	16	1/4"	---	---	98	41	1.0	---	---	---	---	---	---
24	1GS	37	---	---	25	1/2"	---	---	99	42	1.0	---	---	---	---	---	---
25	2GN	39	---	---	25	1/2"	---	---	100	43	1.0	---	---	---	---	---	---
26	2GS	39	---	---	25	1/2"	---	---	101	44	1.0	---	---	---	---	---	---
27	1HN	25	---	---	16	1/4"	---	---	102	45	1.0	---	---	---	---	---	---
28	1HS	27	---	---	16	1/4"	---	---	103	46	1.0	---	---	---	---	---	---
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31	1JN	39	---	---	25	1/2"	---	---	106	49	1.0	---	---	---	---	---	---
32	1JS	40	---	---	25	1/2"	---	---	107	50	1.0	---	---	---	---	---	---
33	WVF-1A5	2.5	5.0	---	---	1/2"	HW	---	108	51	1.0	---	---	---	---	---	---
34	1B5	4.0	---	---	---	1/2"	---	---	109	52	1.0	---	---	---	---	---	---
35	1B5	4.0	---	---	---	1/2"	---	---	110	53	1.0	---	---	---	---	---	---
36	1CN	2.5	---	---	---	1/2"	---	---	111	54	1.0	---	---	---	---	---	---
37	1CS	3.0	---	---	---	1/2"	---	---	112	55	1.0	---	---	---	---	---	---
38	2CN	3.0	---	---	---	1/2"	---	---	113	56	1.0	---	---	---	---	---	---
39	2CS	3.0	---	---	---	1/2"	---	---	114	57	1.0	---	---	---	---	---	---
40	1DN	2.5	---	---	---	1/2"	---	---	115	58	1.0	---	---	---	---	---	---
41	1DS	3.5	---	---	---	1/2"	---	---	116	59	1.0	---	---	---	---	---	---
42	2DS	3.0	---	---	---	1/2"	---	---	117	60	1.0	---	---	---	---	---	---
43	3ES	4.0	---	---	---	1/2"	---	---	118	61	1.0	---	---	---	---	---	---
44	1FN	3.0	---	---	---	1/2"	---	---	119	62	1.0	---	---	---	---	---	---
45	1FS	3.0	---	---	---	1/2"	---	---	120	63	1.0	---	---	---	---	---	---
46	2FN	3.0	---	---	---	1/2"	---	---	121	64	1.0	---	---	---	---	---	---
47	2FS	3.0	---	---	---	1/2"	---	---	122	65	1.0	---	---	---	---	---	---
48	1GN	3.0	---	---	---	1/2"	---	---	123	66	1.0	---	---	---	---	---	---
49	1GS	3.0	---	---	---	1/2"	---	---	124	67	1.0	---	---	---	---	---	---
50	2GN	3.0	---	---	---	1/2"	---	---	125	68	1.0	---	---	---	---	---	---
51	2GS	3.0	---	---	---	1/2"	---	---	126	69	1.0	---	---	---	---	---	---
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55	2HS	3.0	---	---	---	1/2"	---	---	130	73	1.0	---	---	---	---	---	---
56	1JN	3.0	---	---	---	1/2"	---	---	131	74	1.0	---	---	---	---	---	---
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60	1JN	3.0	---	---	---	1/2"	---	---	135	78	1.0	---	---	---	---	---	---
61	1JS	3.0	---	---	---	1/2"	---	---	136	79	1.0	---	---	---	---	---	---
62	1JN	3.0	---	---	---	1/2"	---	---	137	80	1.0	---	---	---	---	---	---
63	1JS	3.0	---	---	---	1/2"	---	---	138	81	1.0	---	---	---	---	---	---
64	1JN	3.0	---	---	---	1/2"	---	---	139	82	1.0	---	---	---	---	---	---
65	1JS	3.0	---	---	---	1/2"	---	---	140	83	1.0	---	---	---	---	---	---
66	1JN	3.0	---	---	---	1/2"	---	---	141	84	1.0	---	---	---	---	---	---
67	1JS	3.0	---	---	---	1/2"	---	---	142	85	1.0	---	---	---	---	---	---
68	1JN	3.0	---	---	---	1/2"	---	---	143	86	1.0	---	---	---	---	---	---
69	1JS	3.0	---	---	---	1/2"	---	---	144	87	1.0	---	---	---	---	---	---
70	1JN	3.0	---	---	---	1/2"	---	---	145	88	1.0	---	---	---	---	---	---
71	1JS	3.0	---	---	---	1/2"	---	---	146	89	1.0	---	---	---	---	---	---
72	1JN	3.0	---	---	---	1/2"	---	---	147	90	1.0	---	---	---	---	---	---
73	1JS	3.0	---	---	---	1/2"	---	---	148	91	1.0	---	---	---	---	---	---
74	1JN	3.0	---	---	---	1/2"	---	---	149	92	1.0	---	---	---	---	---	---
75	1JS	3.0	---	---	---	1/2"	---	---	150	93	1.0	---	---	---	---	---	---
76	1JN	3.0	---	---	---	1/2"	---	---	151	94	1.0	---	---	---	---	---	---
77	1JS	3.0	---	---	---	1/2"	---	---	152	95	1.0	---	---	---	---	---	---
78	1JN	3.0	---	---	---	1/2"	---	---	153	96	1.0	---	---	---	---	---	---
79	1JS	3.0	---	---	---	1/2"	---	---	154	97	1.0	---	---	---	---	---	---
80	1JN	3.0	---	---	---	1/2"	---	---	155	98	1.0	---	---	---	---	---	---
81	1JS	3.0	---	---	---	1/2"	---	---	156	99	1.0	---	---	---	---	---	---
82	1JN	3.0	---	---	---	1/2"	---	---	157	100	1.0	---	---	---	---	---	---
83	1JS	3.0	---	---	---	1/2"	---	---	158	101	1.0	---	---	---	---	---	---
84	1JN	3.0	---	---	---	1/2"	---	---	159	102	1.0	---	---	---	---	---	---
85	1JS	3.0	---	---	---	1/2"	---	---	160	103	1.0	---	---	---	---	---	---
86	1JN	3.0	---	---	---	1/2"	---	---	161	104	1.0	---	---	---	---	---	---
87	1JS	3.0	---	---	---	1/2"	---	---	162	105	1.0	---	---	---	---	---	---
88	1JN	3.0	---	---	---	1/2"	---	---	163	106	1.0	---	---	---	---	---	---
89	1JS	3.0	---	---	---	1/2"	---	---	164	107	1.0	---	---	---	---	---	---
90	1JN	3.0	---	---	---	1/2"	---	---	165	108	1.0	---	---	---	---	---	---
91	1JS	3.0	---	---	---	1/2"	---	---	166	109	1.0	---	---	---	---	---	---
92	1JN	3.0	---	---	---	1/2"	---	---	167	110	1.0	---	---	---	---	---	---
93	1JS	3.0	---	---	---	1/2"	---	---	168	111	1.0	---	---	---	---	---	---
94	1JN	3.0	---	---	---	1/2"	---	---	169	112	1.0	---	---	---	---	---	---
95	1JS	3.0	---	---	---	1/2"	---	---	170	113	1.0	---	---	---	---	---	---
96	1JN	3.0	---	---	---	1/2"	---	---	171	114	1.0	---	---	---	---	---	---
97	1JS	3.0	---	---	---	1/2"	---	---	172	115	1.0	---	---	---	---	---	---
98	1JN	3.0	---	---	---	1/2"	---	---	173	116	1.0	---	---	---	---	---	---
99	1JS	3.0	---	---	---	1/2"	---	---	174	117	1.0	---	---	---	---	---	---
100	1JN	3.0	---	---	---	1/2"	---	---	175	118	1.0	---	---	---	---	---	---
101	1JS	3.0	---	---	---	1/2"	---	---	176	119	1.0	---	---	---	---	---	---
102	1JN	3.0	---	---	---	1/2"	---	---	177	120	1.0	---	---	---	---	---	---
103	1JS	3.0	---	---	---	1/2"	---	---	178	121	1.0	---	---	---	---	---	---
104	1JN	3.0	---	---	---	1/2"	---	---	179	122	1.0	---	---	---	---	---	---
105	1JS	3.0	---	---	---	1/2"	---	---	180	123	1.0	---	---	---	---	---	---
106	1JN	3.0	---	---	---	1/2"	---	---									

CONTROL VALVE SCHEDULE (CONT.)

TAG	SERVICE	FLOW		PRESSURE DROP		LINE SIZE	FLUID	REMARKS	TAG	SERVICE	FLOW		PRESSURE DROP		LINE SIZE	FLUID	REMARKS
		#/HR.	GPM	PSI	CV						#/HR.	GPM	PSI	CV			
V-151	TU-105-2		1.0	5.0		1/2"	HW	2-WAY	V-221	TU-16N-1		1.0	5.0		1/2"	HW	2-WAY
152	3								222	2							3-
153	4								223	3							2-
154	5								224	4							2-
155	6								225	5							2-
156	7								226	6							2-
157	8								227	7							2-
158	1								228	1							2-
159	205-1								229	145-1							2-
160	2								230	2							2-
161	3								231	3							2-
162	4								232	4							2-
163	5								233	5	1.5						2-
164	6								234	6	1.0						2-
165	7								235	7							2-
166	8								236	145N-1							2-
167	1ES-1								237	2							2-
168	2								238	3							2-
169	3								239	4							2-
170	4								240	5							2-
171	5								241	6							2-
172	6								242	7							2-
173	7								243	145-1							2-
174	8								244	2							2-
175	1								245	3							2-
176	2ES-1								246	4							2-
177	3		1.0						247	5							2-
178	4		1.0						248	6							2-
179	5								249	7							2-
180	6								250	145N-1							2-
181	7								251	2							2-
182	8								252	3							2-
183	1								253	4							2-
184	2EN-1								254	5							2-
185	3								255	6							2-
186	4								256	7							2-
187	5		1.5						257	145-1							2-
188	6		1.0						258	2							2-
189	7								259	3							2-
190	8								260	4							2-
191	1								261	5							2-
192	2								262	6							2-
193	3								263	7							2-
194	4								264	145N-1							2-
195	5								265	2							2-
196	6								266	3							2-
197	7								267	4							2-
198	8								268	5							2-
199	1								269	6							2-
200	2								270	7							2-
201	3								271	145-1							2-
202	4								272	2							2-
203	5								273	3							2-
204	6								274	4							2-
205	7								275	5							2-
206	8								276	6							2-
207	1								277	7							2-
208	2								278	145-1							2-
209	3								279	2							2-
210	4								280	3							2-
211	5								281	4							2-
212	6								282	5							2-
213	7								283	6							2-
214	8								284	7							2-
215	1								285	145-1							2-
216	2								286	2							2-
217	3								287	3							2-
218	4								288	4							2-
219	5								289	5							2-
220	6								290	6							2-
221	7								291	7							2-
222	8								292	145-1							2-
223	1								293	2							2-
224	2								294	3							2-
225	3								295	4							2-
226	4								296	5							2-
227	5								297	6							2-
228	6								298	7							2-
229	7								299	145-1							2-
230	8								300	2							2-
231	1								301	3							2-
232	2								302	4							2-
233	3								303	5							2-
234	4								304	6							2-
235	5								305	7							2-
236	6								306	145-1							2-
237	7								307	2							2-
238	8								308	3							2-
239	1								309	4							2-
240	2								310	5							2-
241	3								311	6							2-
242	4								312	7							2-
243	5								313	145-1							2-
244	6								314	2							2-
245	7								315	3							2-
246	8								316	4							2-
247	1								317	5							2-
248	2								318	6							2-
249	3								319	7							2-
250	4								320	145-1							2-
251	5								321	2							2-
252	6								322	3							2-
253	7								323	4							2-
254	8								324	5							2-
255	1								325	6							2-
256	2								326	7							2-
257	3								327	145-1							2-
258	4																



SYN	DESCRIPTION
1	GENERAL REVISION

ADDITIVE NO. 1
 REVISION NO. 1
 WORK SHOWN IN IAN & IAS TO OPERATE.

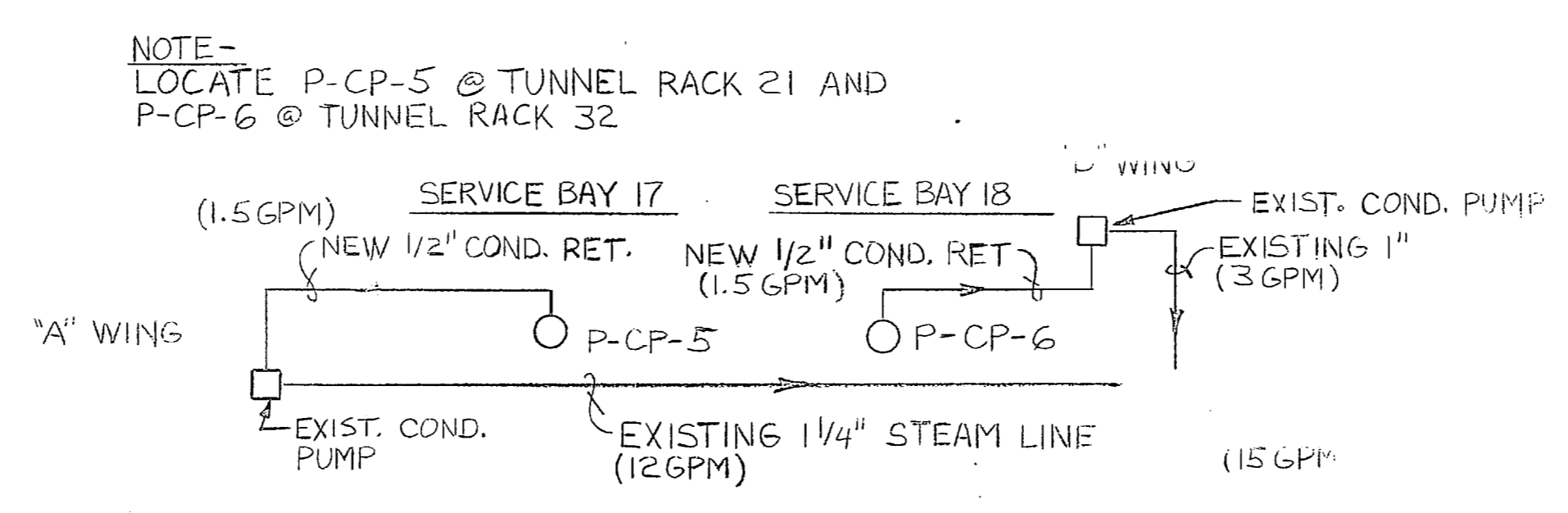
Revised Additive No. 1 to read as follows: "Additive No. 1 includes all HVAC work shown on Sheets M-1 thru M-49 associated with air conditioning and heating 1A North & 1A South. Delete all work shown on Sheet M-50 except for items listed under Note headed Sheet M-9. All items of work shown on Sheet M-50 to enable existing system in 1A North & 1A South to remain in operation shall be accomplished under Base Bid.

WITH AIR FILTERS, ALL PIPING SYSTEMS

SHEET M-2

- THE HPS AND PUMPED CONDENSATE LINES FROM WING "A" TO TUNNEL RACK NO. 61 SHALL REMAIN IN USE. THE EXISTING CONDENSATE PUMPS AT "A" WING AND THE FAN ROOM IN THE BASEMENT OF WING "D" SHALL REMAIN IN PLACE FOR FUTURE USE. REPAIR ALL TRAPS IN THE DRIP ASSEMBLIES SERVING THE HPS MAIN. REPLACE ALL CONDENSATE PIPING FROM THESE TRAPS AND RUN TO THE NEAREST CONDENSATE PUMP. THESE TRAPS OCCUR APPROXIMATELY AT TUNNEL RACKS 20 AND 33. CAP ALL RUNOUTS FROM THE HPS MAIN BETWEEN "A" WING AND RACK NO. 61, EXCEPT TO THE PRV LOCATED AT RACK NO. 3 WHICH SHALL REMAIN IN SERVICE.
- ALL STEAM AND CONDENSATE LINES SERVING "A" WING SHALL REMAIN IN SERVICE. NO DEMOLITION WORK IS REQUIRED IN IAN AND IAS.
- THE STEAM RADIATORS AND ASSOCIATED PIPING SERVING THE CORRIDOR BETWEEN "A" WING AND "B" WING SHALL BE DEMOLISHED. CAP LINES ADJACENT TO WHERE THEY CONNECT TO EXISTING ACTIVE STEAM AND CONDENSATE LINES.
- REPLACE ALL EXPANSION JOINTS IN THE HPS MAIN AND THE PUMPED CONDENSATE RETURN AS FOLLOWS:

LOCATION RACK NO.	HPS		PC	
	SIZE	TRAVERSE	SIZE	TRAVERSE
32	4"	4"	2"	4"
33	5"	8"	2 1/2"	4"



D EXISTING H. P. CONDENSATE RETURN
 NO SCALE

SHEET M-3

THE PIPING TO PUMP "P-DT-AB" CHANGES AS SHOWN IN DETAIL #1 AT THE RIGHT. THE WATER QUANTITY OF PUMP "P-C-AB" BECOMES 89 GPM AND FLOWS TO ONLY 2BN AND 2BS. The water quantity of pump "P-C-AB" becomes 89 GPM and flows to only 1BN and 1BS. **

SHEET M-9

THE PIPING TO WING "A" CHANGES AS SHOWN IN DETAIL #2 AT THE RIGHT. **

SHEET M-10

THE PIPING TO WING "A" CHANGES AS SHOWN IN DETAIL #2 AT THE RIGHT. **

SHEET M-11

THE PIPING TO WING "A" CHANGES AS SHOWN IN DETAIL #3 AT THE RIGHT. **

SHEET M-38

DELETE AIR HANDLING UNIT "AHU-1AS" AND FAN COIL UNIT TYPES "FCU-1, FCU-2, FCU-3, FCU-4, FCU-5, FCU-6, FCU-7, FCU-8, FCU-9, AND FCU-10" FROM THEIR RESPECTIVE SCHEDULES.

SHEET M-39

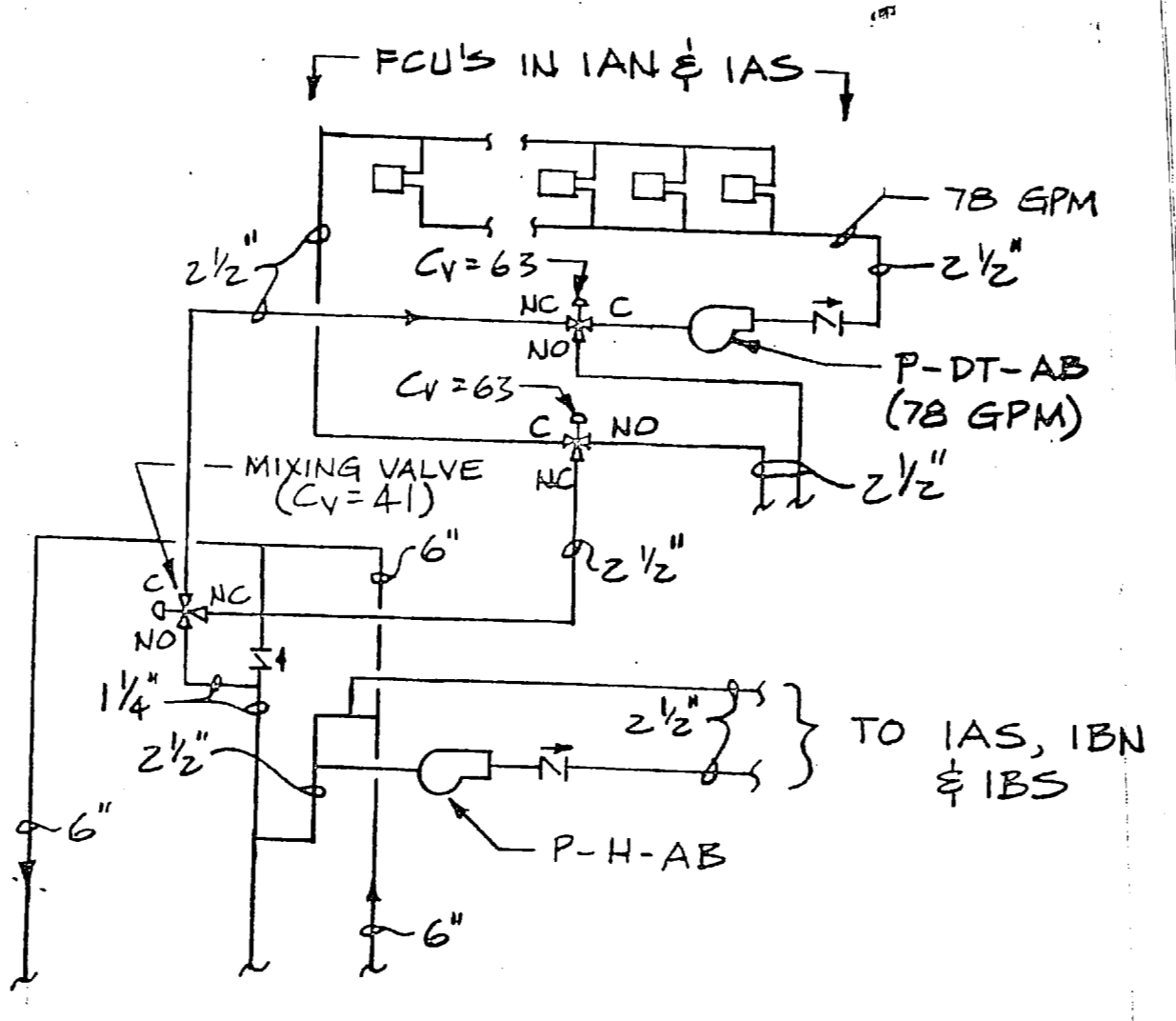
DELETE TERMINAL UNITS "IAS-1 THROUGH IAS-4" FROM SCHEDULE.

M-40

DELETE FANS "EF-1, EF-2, EF-3, AND EF-4" FROM SCHEDULE. DELETE VENTILATION FAN "WVF-1AS" FROM SCHEDULE.

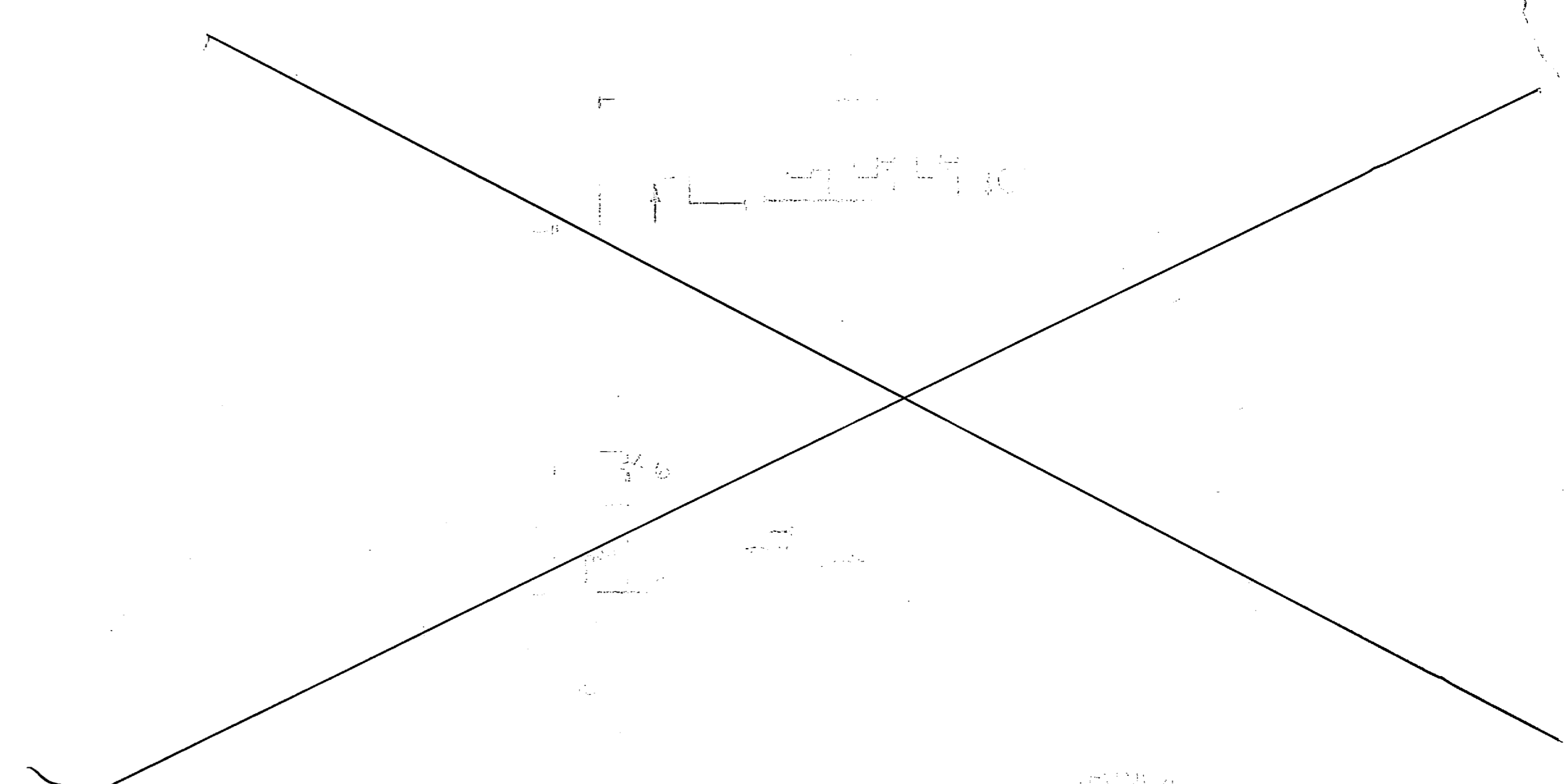
QPM (EA)	HEAD	HP	RPM
78	50 FT.	3-460	1750
94	55 FT.	5-460	3450
10 PSI	1/3-120	"	"
10 PSI	1/3-120	"	"

SKETCH NO. 1 **



A DETAIL #1 "P-DT-AB" PIPING CHANGES
 NO SCALE

CONVERT HOSPITAL TO DIVISION HEADQUARTERS
 MCB CAMP LE JELINE, NORTH CAROLINA
 CONSTRUCTION CONTRACT NO. N6247D-82-B-2243
 LANTIDU SKETCH NO. SK-M-109-86 DATE 7-1-86



DELETE - SEE SKETCH 1 THIS PAGE

** X **

** DELETE

PIPE NUMBER	PIPE SIZE		
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STA	DESCRIPTION
1	GENERAL REVISION

ADDITIVE NO. 1
 6. Revise Additive No. 1 to read as follows: "Additive No. 1 includes all HVAC work shown on Sheets M-1 thru M-9 associated with air conditioning and heating IA North & IA South, except that all items of work shall be accomplished to enable existing systems in IA North and IA South to remain in operation. Delete all work shown on sheet M-50 except for item listed under sheet M-9."
WIPED ALL WORK SHOWN IN IAN & IAS TO OPERATE.

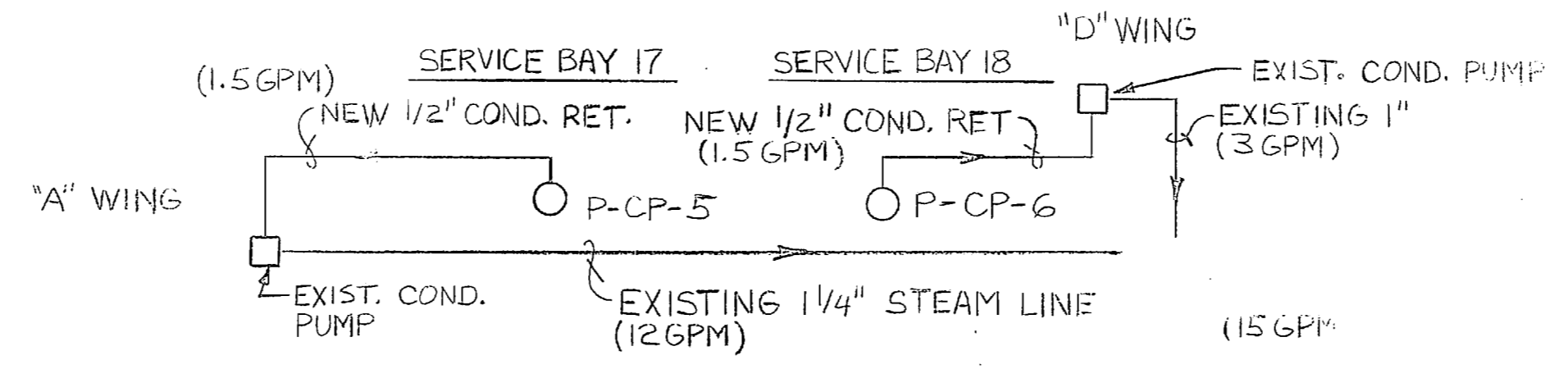
WIPED ALL WORK SHOWN IN IAN & IAS TO OPERATE.

SHEET M-2

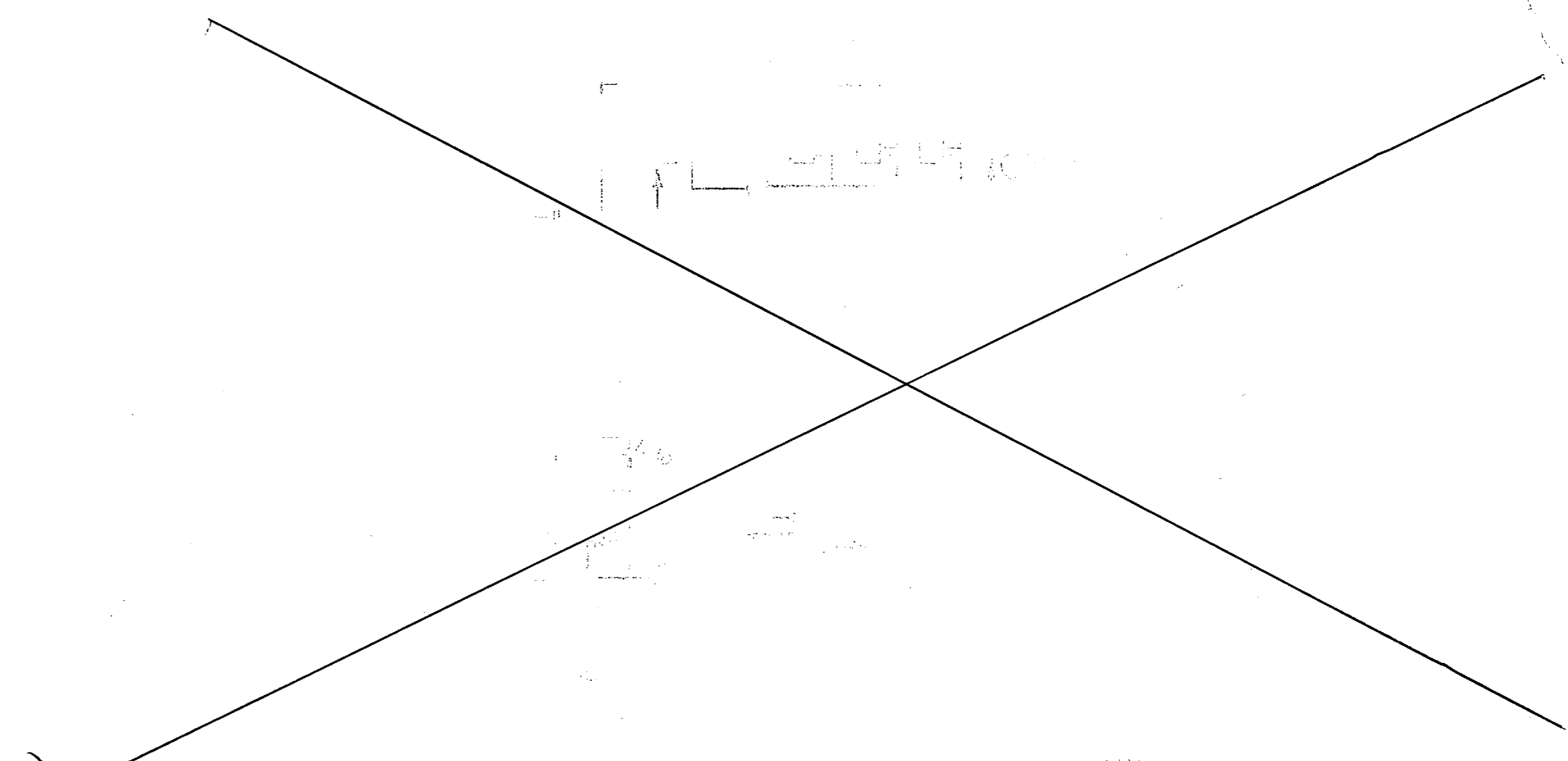
- THE HPS AND PUMPED CONDENSATE LINES FROM WING "A" TO TUNNEL RACK NO. 61 SHALL REMAIN IN USE. THE EXISTING CONDENSATE PUMPS AT "A" WING AND THE FAN ROOM IN THE BASEMENT OF WING "D" SHALL REMAIN IN PLACE FOR FUTURE USE. REPAIR ALL TRAPS IN THE DRIP ASSEMBLIES SERVING THE HPS MAIN. REPLACE ALL CONDENSATE PIPING FROM THESE TRAPS AND RUN TO THE NEAREST CONDENSATE PUMP. THESE TRAPS OCCUR APPROXIMATELY AT TUNNEL RACKS 20 AND 33. CAP ALL RUNOUTS FROM THE HPS MAIN BETWEEN "A" WING AND RACK NO. 31 EXCEPT TO THE ONE LOCATED AT RACK NO. 3 WHICH SHALL REMAIN IN SERVICE.
- ALL STEAM AND CONDENSATE LINES SERVING "A" WING SHALL REMAIN IN SERVICE. NO DEMOLITION WORK IS REQUIRED IN IAN AND IAS.
- THE STEAM RADIATORS AND ASSOCIATED PIPING SERVING THE CORRIDOR BETWEEN "A" WING AND "B" WING SHALL BE DEMOLISHED. CAP LINES ADJACENT TO WHERE THEY CONNECT TO EXISTING ACTIVE STEAM AND CONDENSATE LINES.
- REPLACE ALL EXPANSION JOINTS IN THE HPS MAIN AND THE PUMPED CONDENSATE RETURN AS FOLLOWS:

LOCATION RACK NO.	HPS SIZE	TRAVERSE	PC SIZE	TRAVERSE
32	4"	4"	2"	4"
33	5"	8"	2 1/2"	4"

NOTE: LOCATE P-CP-5 @ TUNNEL RACK 21 AND P-CP-6 @ TUNNEL RACK 33



(D) EXISTING H. P. CONDENSATE RETURN
 MSD/MSC NO SCALE



DELETE - SEE SKETCH 1 THIS PAGE

SHEET M-3

THERE SHALL BE NO DEMOLITION WORK DONE TO WINGS IAN & IAS. DO REMOVE THE STEAM RADIATORS AND ASSOCIATED PIPING IN THE CORRIDOR BETWEEN "A" AND "B" WINGS.

SHEET M-9

THE PIPING TO PUMP "P-DT-AB" CHANGES AS SHOWN IN DETAIL #1 AT THE RIGHT. THE WATER QUANTITY OF PUMP "P-C-AB" BECOMES 89 GPM AND FLOWS TO ONLY 2BN & 3BN. THE WATER QUANTITY OF PUMP "P-C-AB" BECOMES 89 GPM AND FLOWS TO ONLY 2BN & 3BN. THE WATER QUANTITY OF PUMP "P-C-AB" BECOMES 89 GPM AND FLOWS TO ONLY 2BN & 3BN. **

SHEET M-10

THE PIPING TO WING "A" CHANGES AS SHOWN IN DETAIL #2 AT THE RIGHT.

SHEET M-11

THE HW PIPING SHOWN IN THE CORRIDOR BETWEEN "A" WING AND "B" WING, CHANGE DOWN IN DETAIL #3 AT THE RIGHT.

SHEET M-38

DELETE AIR HANDLING UNIT "AHU-IAS" AND FAN COIL UNIT TYPES "FCU-1, FCU-2, FCU-3, FCU-4, FCU-5, FCU-6, FCU-7, FCU-8, FCU-9, AND FCU-10" FROM THEIR RESPECTIVE SCHEDULES.

SHEET M-39

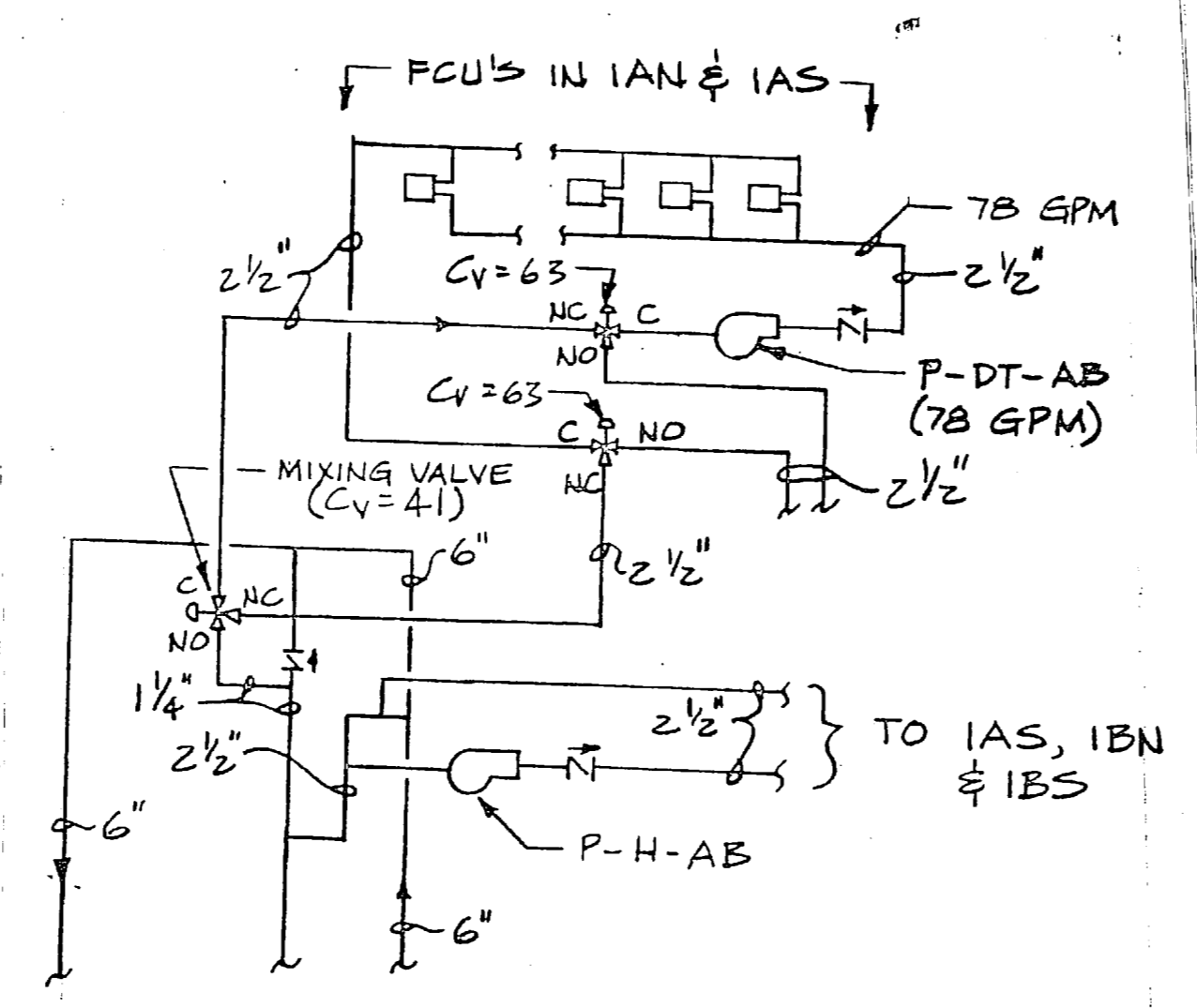
DELETE TERMINAL UNITS "IAS-1 THROUGH IAS-4" FROM SCHEDULE.

SHEET M-40

DELETE EXHAUST FANS "EF-1, EF-2, EF-3, AND EF-4" FROM SCHEDULE. DELETE EXHAUST VENTILATION FAN "WVF-IAS" FROM SCHEDULE.

TYPE	QTY	GEN (EA)	HEAD (FOOT)	HP	RPM
**	78	94X	55 FT.	3-460	3450
			55 FT.	3-460	"
			10 PSI	1/3-120	"
			10 PSI	1/3-120	"

SKETCH NO. 1 **

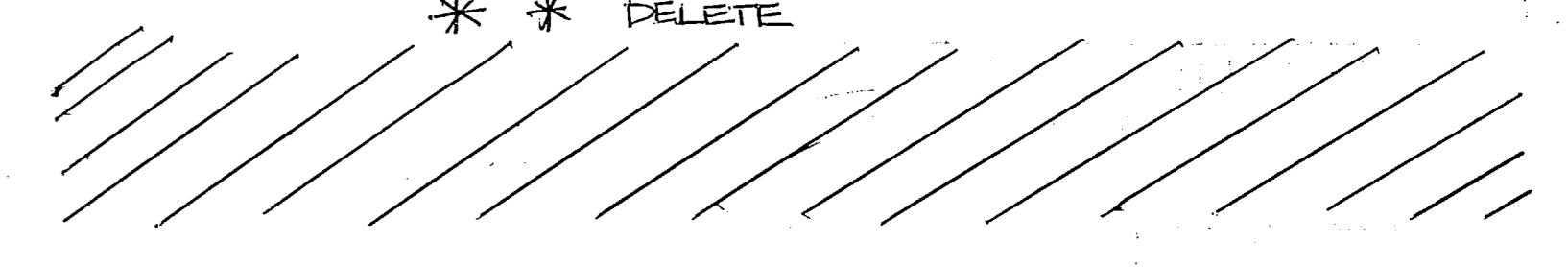


(A) DETAIL #1 "P-DT-AB" PIPING CHANGES
 MS/MSC NO SCALE

CONVERT HOSPITAL TO DIVISION HEADQUARTERS
 MCB CAMP LEJEUNE, NORTH CAROLINA
 CONSTRUCTION CONTRACT NO. N62470-B2-B-2243
 LANTDID SKETCH NO. SK-M-109-86 DATE 7-1-86

PIPE NUMBER	SCHEDULE		
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** DELETE



SYM	DESCRIPTION
11	GENERAL REVISION

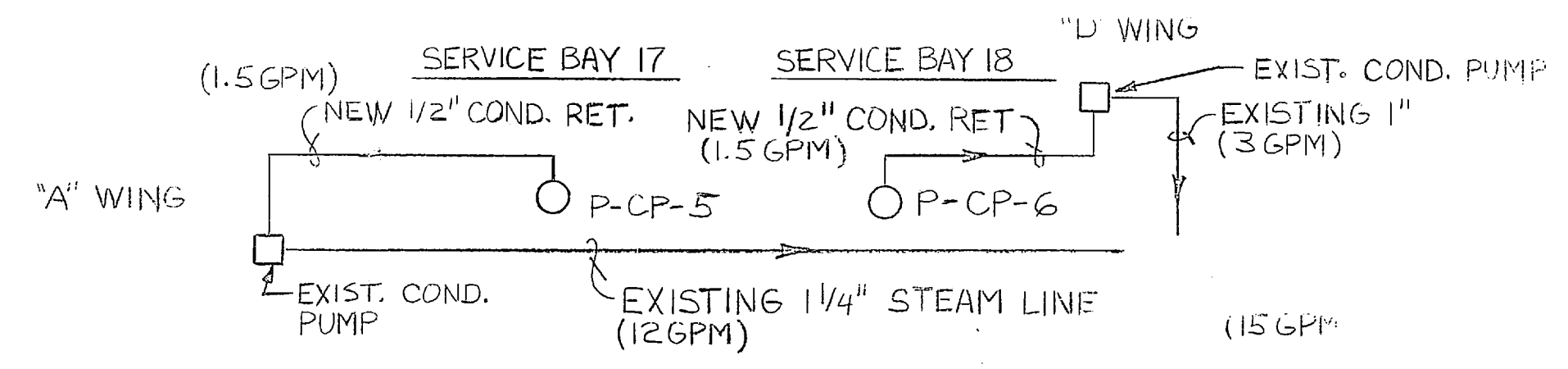
ADDITIVE NO. 1 INCLUDES ALL HVAC WORK SHOWN ON THE PLANS ASSOCIATED WITH AIR CONDITIONING AND HEATING WINGS IAN AND IAS. IF ADDITIVE NO. 1 IS ACCEPTED ALL WORK SHOWN ON THIS SHEET SHALL BE DELETED. OTHERWISE, ALL DEMOLITION WORK SHALL BE REQUIRED TO ENABLE EXISTING SYSTEMS IN IAN & IAS TO OPERATE.

SHEET M-2

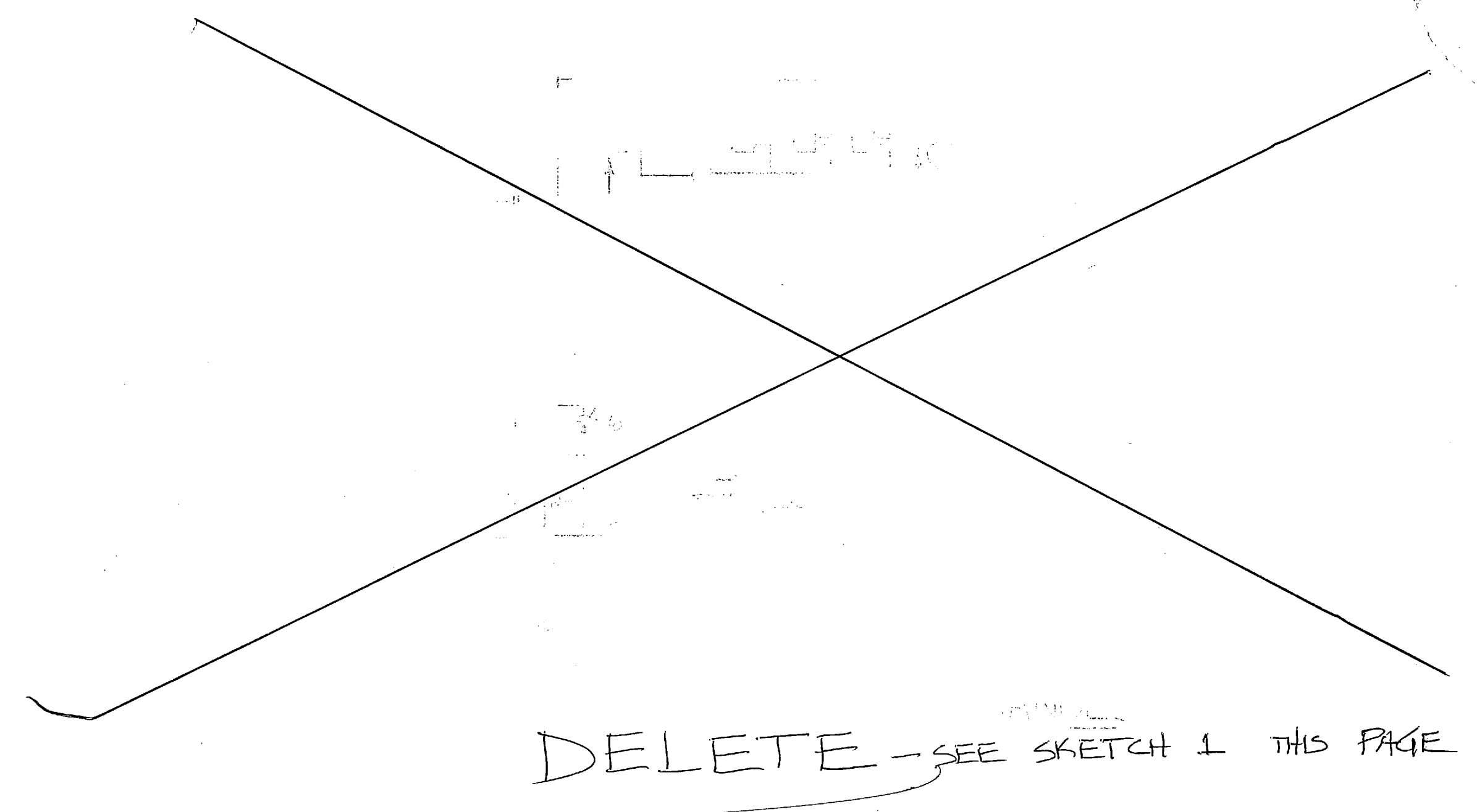
1. THE HPS AND PUMPED CONDENSATE LINES FROM WING "A" TO TUNNEL RACK NO. 61 SHALL REMAIN IN USE. THE EXISTING CONDENSATE PUMPS AT "A" WING AND THE FAN ROOM IN THE BASEMENT OF WING "D" SHALL REMAIN IN PLACE FOR FUTURE USE. REPAIR ALL TRAPS IN THE DRIP ASSEMBLIES SERVING THE HPS MAIN. REPLACE ALL CONDENSATE PIPING FROM THESE TRAPS AND RUN TO THE NEAREST CONDENSATE PUMP. THESE TRAPS OCCUR APPROXIMATELY AT TUNNEL RACKS 20 AND 33. CAP ALL RUNOUTS FROM THE HPS MAIN BETWEEN "A" WING AND RACK NO. 61, EXCEPT TO THE PRV LOCATED AT RACK NO. 3 WHICH SHALL REMAIN IN SERVICE.
2. ALL STEAM AND CONDENSATE LINES SERVING "A" WING SHALL REMAIN IN SERVICE. NO DEMOLITION WORK IS REQUIRED IN IAN AND IAS.
3. THE STEAM RADIATORS AND ASSOCIATED PIPING SERVING THE CORRIDOR BETWEEN "A" WING AND "B" WING SHALL BE DEMOLISHED. CAP LINES ADJACENT TO WHERE THEY CONNECT TO EXISTING ACTIVE STEAM AND CONDENSATE LINES.
4. REPLACE ALL EXPANSION JOINTS IN THE HPS MAIN AND THE PUMPED CONDENSATE RETURN AS FOLLOWS:

LOCATION RACK NO.	HPS SIZE	HPS TRAVERSE	PC SIZE	PC TRAVERSE
32	4"	4"	2"	4"
33	5"	8"	2 1/2"	4"

NOTE -
LOCATE P-CP-5 @ TUNNEL RACK 21 AND
P-CP-6 @ TUNNEL RACK 32



(D) EXISTING H. P. CONDENSATE RETURN
NO SCALE



SHEET M-3

THERE SHALL BE NO DEMOLITION WORK DONE TO WINGS IAN & IAS. DO REMOVE THE STEAM RADIATORS AND ASSOCIATED PIPING IN THE CORRIDOR BETWEEN "A" AND "B" WINGS.

SHEET M-9

THE PIPING TO PUMP "P-DT-AB" CHANGES AS SHOWN IN DETAIL #1 AT THE RIGHT. THE WATER QUANTITY OF PUMP "P-C-AB" BECOMES 89 GPM AND FLOWS TO ONLY 2BN AND 2CG. THE WATER QUANTITY OF PUMP "P-C-AB" BECOMES 89 GPM AND FLOWS TO ONLY 1BN AND 1BS. **

SHEET M-10

PIPING TO WING "A" CHANGES AS SHOWN IN DETAIL #2 AT THE RIGHT. THE TUNNEL HOT WATER DETAIL #2 AT THE RIGHT. **

SHEET M-11

THE HW PIPING SHOWN IN THE CORRIDOR BETWEEN "A" WING AND "B" WING, CHANGE SHOWN IN DETAIL #3 AT THE RIGHT.

SHEET M-38

DELETE AIR HANDLING UNIT "AHU-IAS" AND FAN COIL UNIT TYPES "FCU-1, FCU-2, FCU-3, FCU-4, FCU-5, FCU-6, FCU-7, FCU-8, FCU-9, AND FCU-10" FROM THEIR RESPECTIVE SCHEDULES.

SHEET M-39

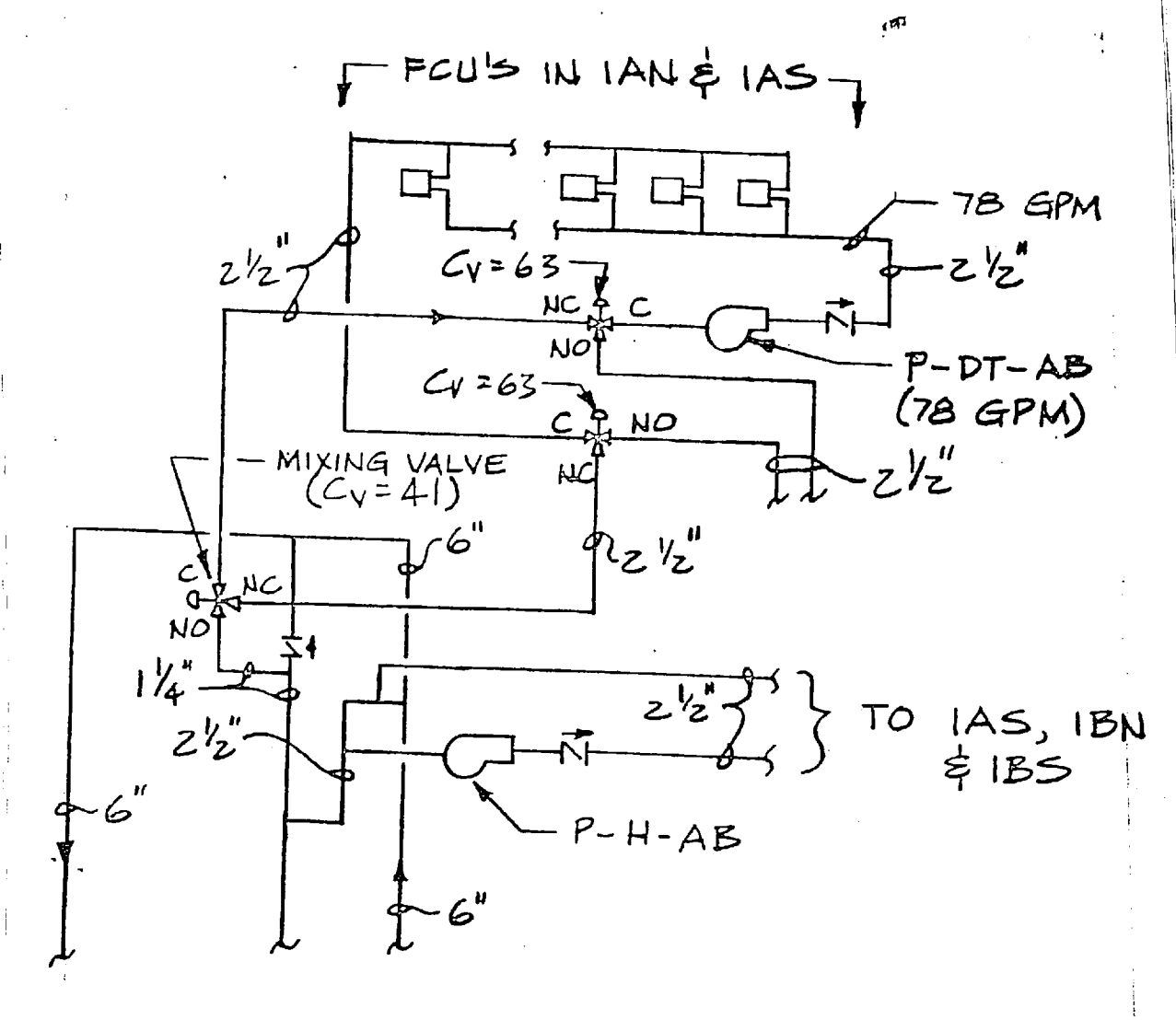
DELETE TERMINAL UNITS "IAS-1 THROUGH IAS-4" FROM SCHEDULE.

M-40

DELETE EXHAUST FANS "EF-1, EF-2, EF-3, AND EF-4" FROM SCHEDULE. DELETE WHOLE ROOM VENTILATION FAN "WV-IAS" FROM SCHEDULE.

MODEL	HEAD	HP	RPM
78	50 FT.	3-460	1750
78	94 FT.	5-460	3450
	55 FT.	3-460	"
	10 PSI	1/3-120	"
	10 PSI	1/3-120	"

SKETCH NO. 1 **

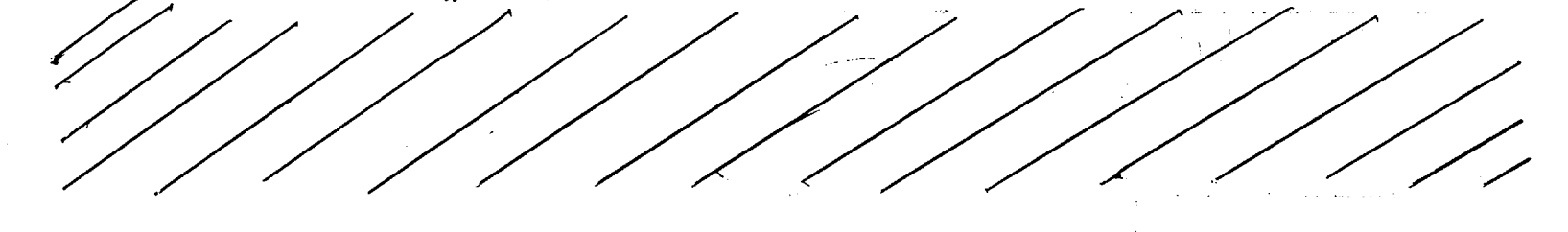


(A) DETAIL #1 "P-DT-AB" PIPING CHANGES
NO SCALE

CONVERT HOSPITAL TO DIVISION HEADQUARTERS
MCD CAMP LEJUNE, NORTH CAROLINA
CONSTRUCTION CONTRACT NO. N62470-82-B-2243
LANTIDU SKETCH NO. SK-M-109-86 DATE 7-1-86

PIPE NUMBER	RACK NO.			
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** DELETE



ADDITIVE NO. 2
 NO. 1 IS ACCEPTED
 SHALL BE DELETED
 BE REQUIRED

In the changes in Amend. No. 0002, change Item No. 4 to read as follows:
 4. Revise Additive No. 2 to read as follows: "Additive No. 2 includes all HVAC work shown on Sheets M-1 thru M-49 associated with air conditioning and heating 2B North and 2B South. Delete all work shown on sheet M-51, except for Item No. 2 listed under Note headed Sheet M-13. All items of work shown on Sheet M-51 to enable existing systems in 2B North & 2B South to remain in operation shall be accomplished under the Base Bid."
 TO ENABLE EXISTING SYSTEMS IN 2B NORTH & 2B SOUTH TO OPERATE.

DELETED WITH ADDITIVE NO. 1 ON THIS SHEET
 DELETED WITH ADDITIVE NO. 1 ON THIS SHEET
 DELETED WITH ADDITIVE NO. 1 ON THIS SHEET

SHEET M-2

1. THE 3" LPS AND 1/2" LPR SHOWN TO SUPPLY RADIATORS ON EACH SIDE OF CBN AND CBS WILL REMAIN IN PLACE. OUTSIDE THE TUNNEL WALLS. ALL ASSOCIATED PIPING INSIDE THE TUNNEL WILL BE DEMOLISHED.
2. THE CONDENSATE PUMPS LOCATED IN THE PITS AND THE MPS AND MPR LINES WILL BE DEMOLISHED.

SHEET M-3

1. THE NOTE REFERRING TO THE DEMOLITION OF THE LPS AND LPR LINES LOCATED IN THE CRAWL SPACE OF IBN AND IBS WILL NOT APPLY. HOWEVER, RADIATORS SERVING THE FIRST FLOOR (IBN AND IBS) WILL BE DEMOLISHED. ALL PIPING ASSOCIATED WITH THESE RADIATORS WILL BE REMOVED AND CAPPED AT THE MAINS IN THE CRAWLSPACE. THE EXISTING ASBESTOS INSULATION WILL BE REMOVED FROM THE PIPING IN THE CRAWL SPACE.
2. THE LPS AND LPR LINES SERVING THE SECOND FLOOR (2BN AND 2BS) RADIATORS WILL REMAIN IN SERVICE.

SHEET M-4

NO DEMOLITION WORK WILL BE DONE IN 2BN AND 2BS, EXCEPT THE REMOVAL OF THE STERILIZERS.

SHEET M-9

The piping to the dual temperature system shall be revised as shown in Detail #1 on Sheet M-50. ~~SEE DETAIL #1~~

SHEET M-10

THE PIPING IN THE TUNNEL WILL BE REVISED FROM DETAIL # 2 FOR ADDITIVE #1 (SHOWN ON SHEET M-11) TO MATCH THE PIPING ON THIS SHEET.

SHEET M-12

1. DELETE TWO FCV (26PM) AND ONE FCV (36PM) AND RELATED PIPING ABOVE THE 1BM CEILING THAT SERVE H.W. RADIATION IN 2BN.
2. DELETE ONE FCV (14M) AND ONE FCV (36PM) ABOVE THE IBS CEILING THAT SERVE H.W. RADIATION IN 2BS.

SHEET M-13

1. DELETE ALL WORK SHOWN ON THIS SHEET IN 2BN AND 2BS, EXCEPT THE 12X12 EXHAUST DUCTS THAT ARE RUN FROM EF-5 AND EF-8 ON THE 1ST FLOOR TO THE RESPECTIVE ROOF CAPS.
2. THE HOT WATER RADIATION SHOWN IN THE CORRIDOR BETWEEN "A" AND "B" WINGS WILL REMAIN IN SERVICE.

SHEET M-14

- THE FOLLOWING TEMPERATURE CONTROL DIAGRAMS:
- 1. TYPICAL FCV CONTROL
 - 2. TYPICAL FCV CONTROL
 - 3. TYPICAL FCV CONTROL
 - 4. TYPICAL FCV CONTROL

SHEET M-15

- THE FOLLOWING TEMPERATURE CONTROL DIAGRAMS:
- 1. TYPICAL FCV CONTROL
 - 2. TYPICAL FCV CONTROL
 - 3. TYPICAL FCV CONTROL
 - 4. TYPICAL FCV CONTROL

SHEET M-16

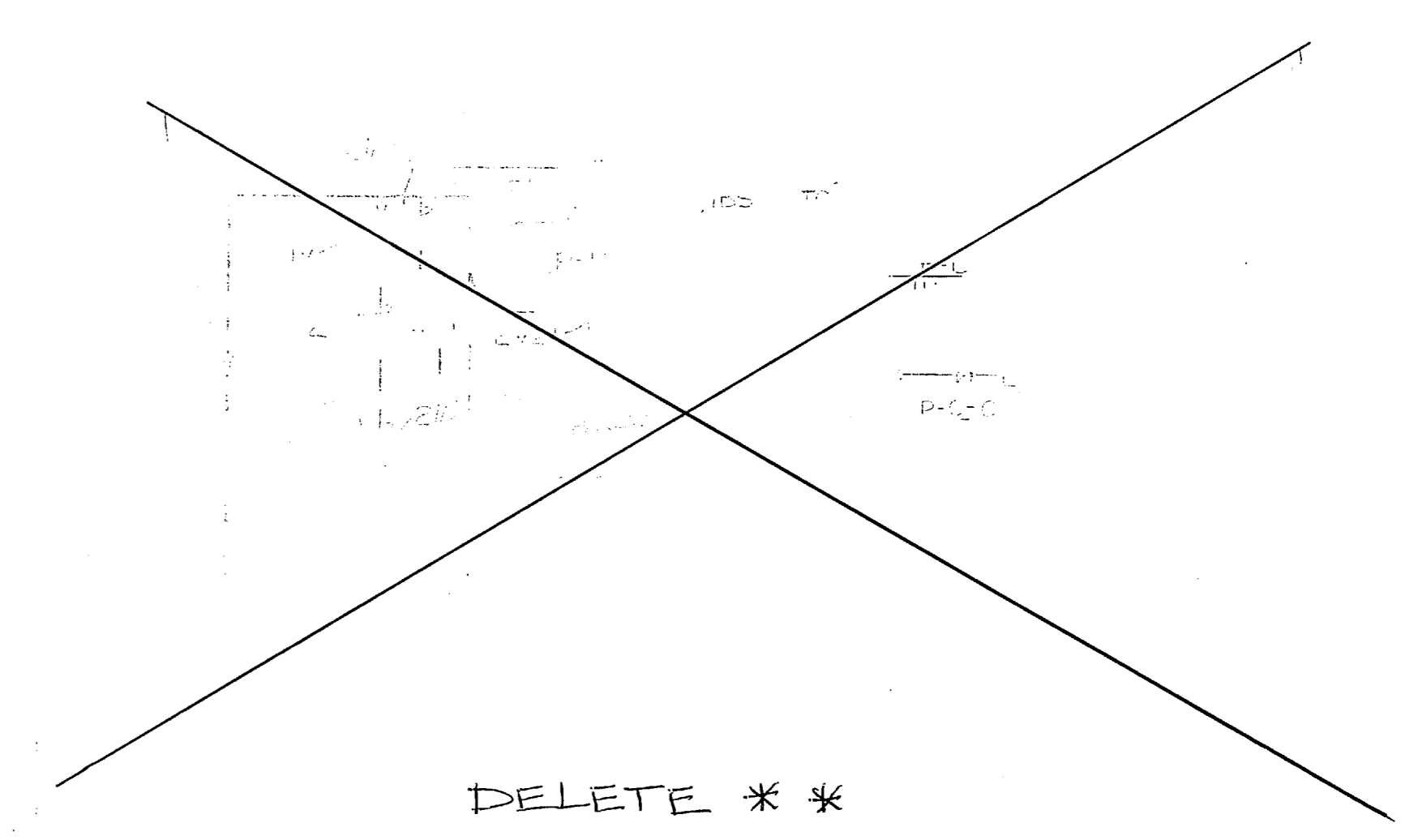
DELETE THRU FCV-32 FROM THE FAN COIL UNIT SCHEDULE.

SHEET M-17

DELETE THRU FCV-32 FROM THE SCHEDULE.

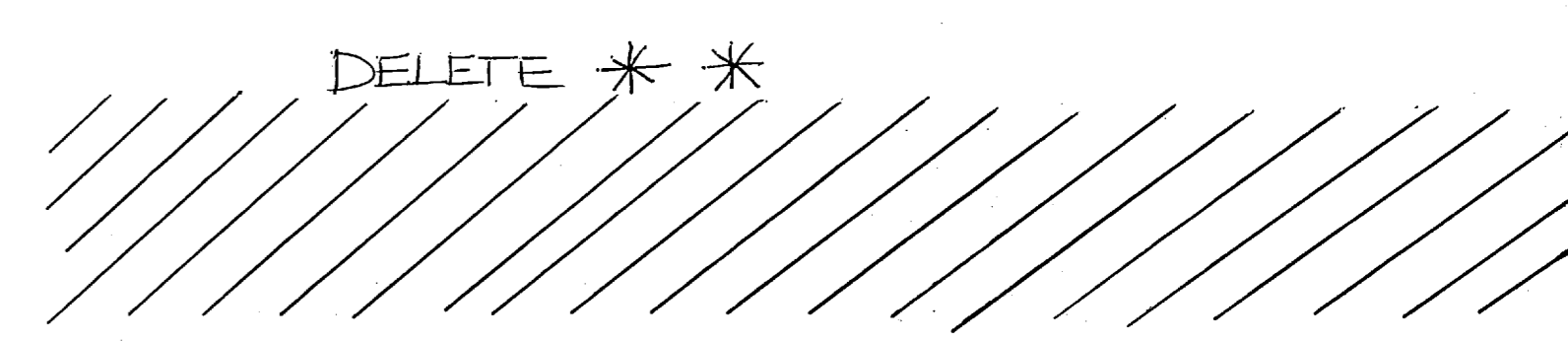
SHEET M-18

DELETE THRU FCV-32 FROM THE SCHEDULE.



** PRV-5 (125 to 5 psig) 800#/hr.

** 15 LB



ADDITIVE NO. 2
 NO. 1 IS ACCEPTED
 SHAL BE REQUIRED TO ENABLE EXISTING SYSTEMS IN CON...

4. Revise Additive No. 2 to read as follows: "Additive No. 2 includes all HVAC work shown on Sheets M-1 thru M-49 associated with air conditioning and heating 2B North and 2B South, except that all items of work shall be accomplished to enable existing systems to remain in operation. Delete all work shown on sheet M-51, except for Item No. 2 listed under sheet M-13. BE REQUIRED TO ENABLE EXISTING SYSTEMS IN CON...

DELETED WITH ADDITIVE NO. 1 IN THIS SHEET. NO WORK SHALL BE DONE ON THIS SHEET.

SHEET M-2
 1. THE 3" LPS AND 1 1/2" LPR SHOWN TO SUPPLY RADIATORS ON EACH SIDE OF CBN AND CBS WILL REMAIN IN PLACE. OUTSIDE THE TUNNEL WALLS, ALL ASSOCIATED PIPING INSIDE THE TUNNEL WILL BE DEMOLISHED.
 2. THE CONDENSATE PUMPS LOCATED IN THE PITS AND THE MPS AND MPR LINES WILL BE DEMOLISHED.

SHEET M-3
 1. THE NOTE REFERENCING TO THE DEMOLITION OF THE LPS AND LPR LINES LOCATED IN THE CRAWL SPACE OF IBN AND IBS WILL NOT APPLY, HOWEVER, RADIATORS SERVING THE FIRST FLOOR (IBN AND IBS) SHALL BE DEMOLISHED. ALL PIPING ASSOCIATED WITH THESE RADIATORS WILL BE REMOVED AND CAPPED AT THE MAINS IN THE CRAWLSPACE. THE EXISTING ASBESTOS INSULATION WILL BE REMOVED FROM THE PIPING IN THE CRAWL SPACE.
 2. THE LPS AND LPR LINES SERVING THE SECOND FLOOR (2BN AND 2BS) RADIATORS WILL REMAIN IN SERVICE.

SHEET M-4
 NO DEMOLITION WORK WILL BE DONE IN 2BN AND 2BS, EXCEPT THE REMOVAL OF THE STERILIZERS.

SHEET M-9
 The piping to the Total temperature system shall be revised as shown in Detail #1 on sheet M-50. ~~ADD ON DETAIL #1~~

THE PIPING IN THE TUNNEL WILL BE REVISED FROM DETAIL #2 FOR ADDITIVE #1 (SHOWN ON SHEET M-12) TO DETAIL #1 ON THIS SHEET.

SHEET M-12
 DELETE TWO FCV (26PM) AND ONE DRP FCV (36PM) AND RELATED PIPING ABOVE THE IBN CEILING THAT SERVE H.W. RADIATION IN 2BN.
 DELETE ONE FCV (26PM) AND ONE FCV (36PM) ABOVE THE IBS CEILING THAT SERVE H.W. RADIATION IN 2BS.

SHEET M-18
 DELETE ALL WORK SHOWN ON THIS SHEET IN 2BN AND 2BS, EXCEPT THE 12x12 EXHAUST DUCTS THAT ARE RUN FROM EF-5 AND EF-8 ON THE 1ST FLOOR TO THE RESPECTIVE ROOF CAPS.
 THE HOT WATER RADIATION SHOWN IN THE CORRIDOR BETWEEN "A" AND "B" WINGS WILL REMAIN IN SERVICE.

DELETE THE FOLLOWING PRE-EXISTING CONTROL DIAGRAMS:
 1. TYPICAL FCU CONTROL
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 100. TYPICAL FCU CONTROL

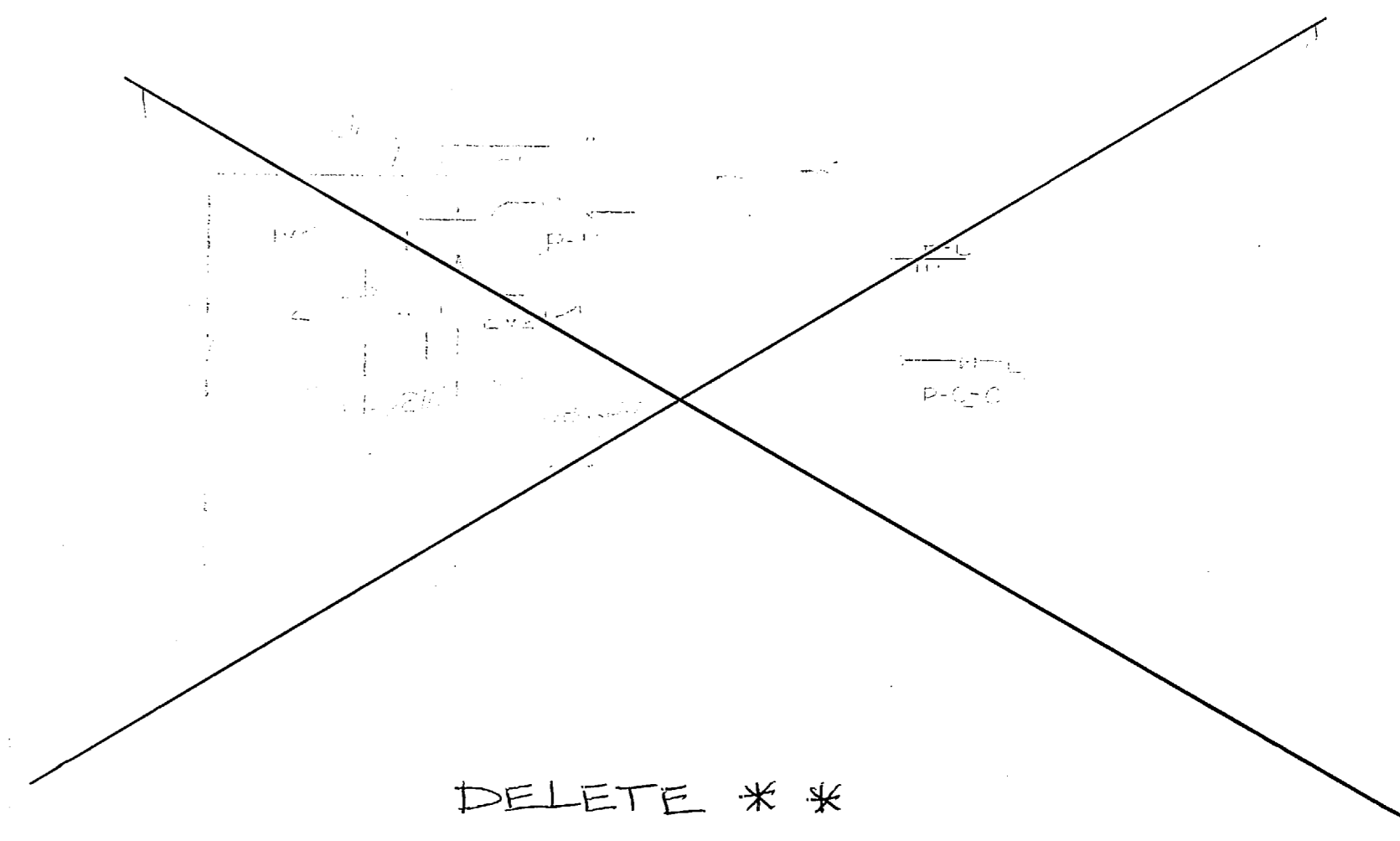
DELETE THE FOLLOWING TEMPERATURE CONTROL DIAGRAMS:
 1. TYPICAL FCU 3, 9 CONTROL
 2. INTAKE FOR FCU'S NO. 9 & 10.

DELETE THRU FCU-32 FROM THE FAN COIL UNIT SCHEDULE.

DELETE FCU 96 FROM THE SCHEDULE.

ADDITIVE **

3/25/12 V2 12:00
 3/25/12 V2 12:00

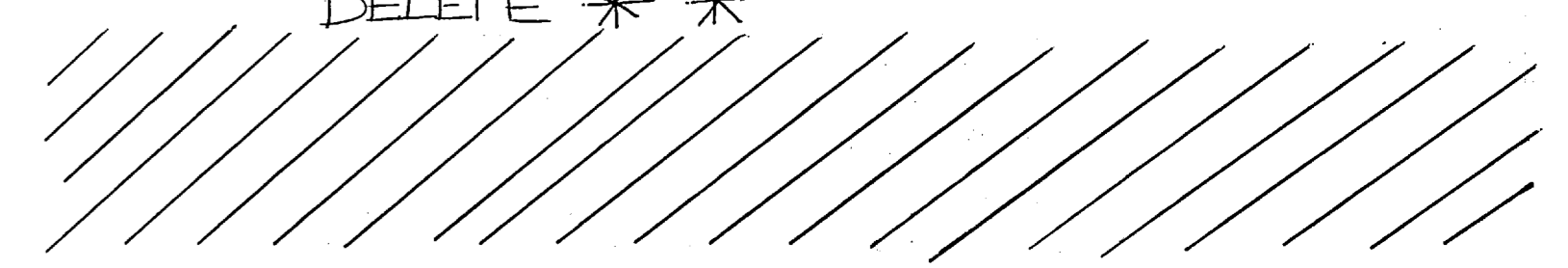


DELETE **

** PRV-5 (125 to 5 psig) 800#/hr.

**
 15 LB

DELETE **



ADDITIVE NO. 2 INCLUDES ALL HVAC WORK SHOWN ON THE PLANS ASSOCIATED WITH A...
 CONDITIONING AND HEATING 2BN AND 2BS. ADDITIVE NO. 2 CAN ONLY BE ACCEPTED IF ADDITIVE
 NO. 1 IS ACCEPTED. IF ADDITIVE NO. 2 IS ACCEPTED ALL WORK SHOWN ON THIS SHEET
 SHALL BE DELETED. OTHERWISE ALL WORK SHOWN HEREON SHALL
 BE REQUIRED TO ENABLE EXISTING SYSTEMS IN 2BN & 2BS TO OPERATE.

SHEET M-2
 1. THE 3" LPS AND 1/2" LPR SHOWN TO SUPPLY RADIATORS ON EACH SIDE OF CBN AND CBS WILL
 REMAIN IN PLACE. OUTSIDE THE TUNNEL WALLS. ALL ASSOCIATED PIPING INSIDE THE TUNNEL WILL
 BE DEMOLISHED.
 2. THE CONDENSATE PUMPS LOCATED IN THE PITS AND THE MPS AND MPR LINES WILL BE
 DEMOLISHED.

SHEET M-3
 1. THE NOTE REFERRING TO THE DEMOLITION OF THE LPS AND LPR LINES LOCATED IN THE CRAWL
 SPACE OF IBN AND IBS WILL NOT APPLY. HOWEVER, RADIATORS SERVING THE FIRST FLOOR (IBN
 AND IBS) WILL BE DEMOLISHED. ALL PIPING ASSOCIATED WITH THESE RADIATORS WILL BE REMOVED
 AND CAPPED AT THE MAINS IN THE CRAWLSPACE. THE EXISTING ASBESTOS INSULATION WILL BE
 REMOVED FROM THE PIPING IN THE CRAWL SPACE.
 2. THE LPS AND LPR LINES SERVING THE SECOND FLOOR (2BN AND 2BS) RADIATORS WILL REMAIN
 IN SERVICE.

SHEET M-4
 NO DEMOLITION WORK WILL BE DONE IN 2BN AND 2BS, EXCEPT THE REMOVAL OF THE STERILIZERS.

SHEET M-9
 The piping to the
 dual temperature system shall be revised as shown in Detail #1 on Sheet M-50.

SHEET M-10
 THE PIPING IN THE TUNNEL WILL BE REVISED FROM DETAIL # 2 FOR ADDITIVE #1 (SHOWN ON SHEET
 M-10) TO DETAIL #1 ON THIS SHEET.

SHEET M-12
 REMOVE TWO FCV (26PM) AND ONE FCV (36PM) AND RELATED PIPING ABOVE THE IBN CEILING THAT
 SERVE H.W. RADIATION IN 2BN.
 REMOVE ONE FCV (26PM) AND ONE FCV (36PM) ABOVE THE IBS CEILING THAT SERVE H.W. RADIATION
 IN 2BS.

SHEET M-13
 REMOVE ALL WORK SHOWN ON THIS SHEET IN 2BN AND 2BS, EXCEPT THE 12x12 EXHAUST DUCTS
 THAT ARE RUN FROM EF-5 AND EF-8 ON THE 1ST FLOOR TO THE RESPECTIVE ROOF CAPS.
 THE HOT WATER RADIATION SHOWN IN THE CORRIDOR BETWEEN "A" AND "B" WINGS WILL REMAIN IN
 SERVICE.

REMOVE THE FOLLOWING TEMPERATURE CONTROL DIAGRAMS:
 TYPICAL FCV CONTROL
 TYPICAL FCV UNIT (MUAD) BILLETING AREA.
 TYPICAL FCV CONTROL
 EF 4 CHANGEOVER BILLETING AREA.

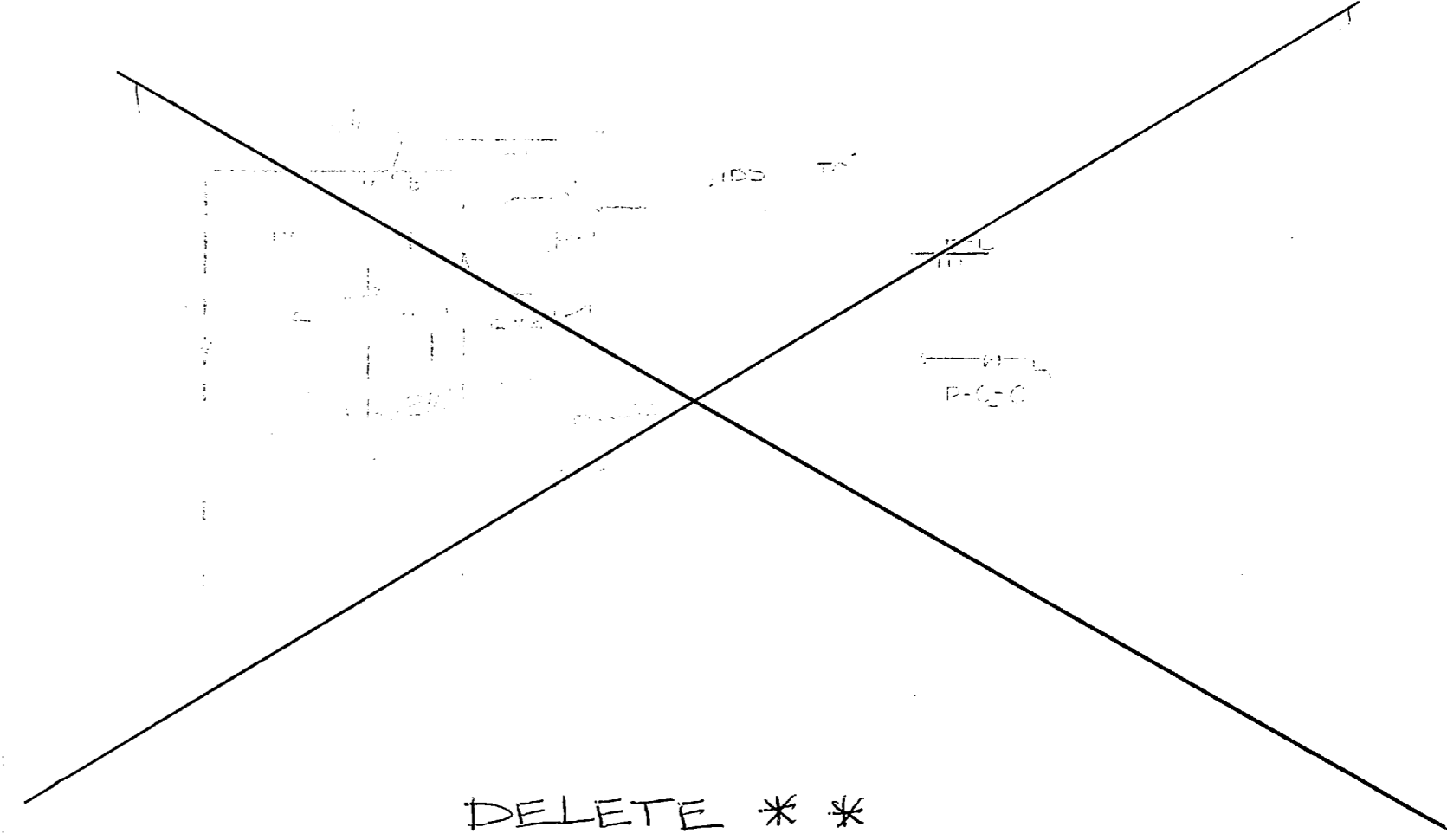
REMOVE THE FOLLOWING TEMPERATURE CONTROL DIAGRAMS:
 TYPICAL FCV 8,9 CONTROL
 O.A. INTAKE FOR FCV'S NO. 9 & 10.

REMOVE FCV-12 THRU FCV-32 FROM THE FAN COIL UNIT SCHEDULE.

REMOVE FCV-36 FROM THE SCHEDULE.
 REMOVE FCV-37 FROM THE SCHEDULE.

Remove **

2" LPS 1/2" LPR



DELETE **

** PKV-5 (125 to 5 psig) 800#/hr.

**
 15 LB

10-1

DELETE **



ADDITIVE # 3
 ARE HEATING
 ARE HEATING
 ARE HEATING

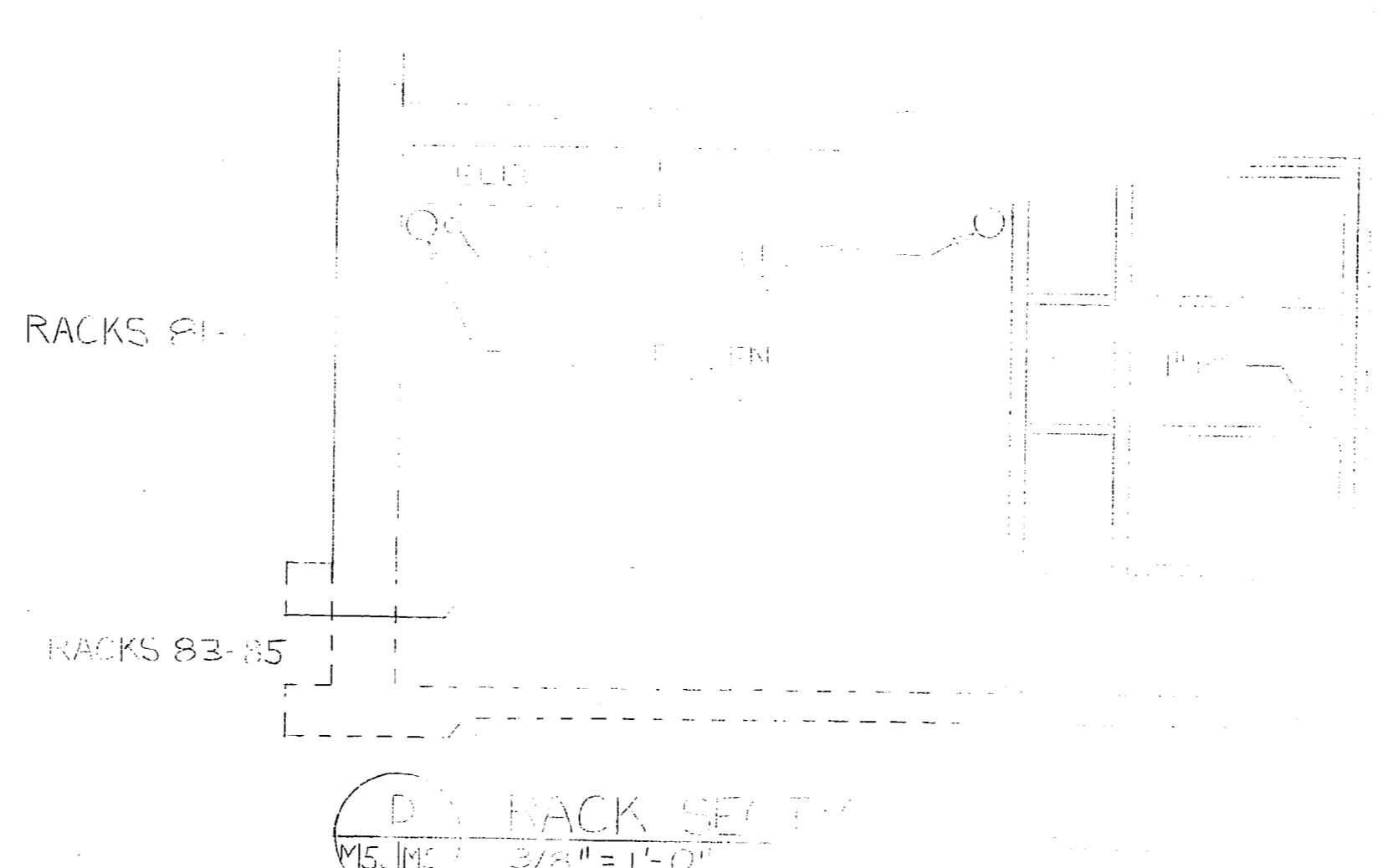
In the changes in Amend. No. 0002, change Item No. 1 to read as follows:
 Revise Additive No. 3 to read "Additive No. 3 includes all HVAC work shown on
 Sheets N-1 thru N-49 associated with air conditioning and heating 2F North and
 2F South. Delete all work shown on sheet M-52, except for items No. 3 and No.
 4 listed under Note headed Sheet M-26. All items of work shown on Sheet M-52
 to enable existing systems in 2F North and 2F South to remain in operation
 shall be accomplished under the Base Bid.

WITH AIR CONDITIONING
 NO. 1 AND NO. 2
 TO OPERATE

SHEET M-2
 1. THE CONDENSER PIPING DOWN TO THE RADIATORS ON EACH SIDE OF CFN AND CFS WILL REMAIN IN PLACE OUTSIDE THE TUNNEL WALLS. ALL ASSOCIATED PIPING INSIDE THE TUNNEL WILL BE DEMOLISHED.
 2. THE CONDENSER PIPING LOCATED IN THE 2FN AND THE MPS AND MPR LINES WILL BE DEMOLISHED.
 3. COORDINATE REMOVAL OF CONDENSERLESS CHILLER, CHILLED WATER PUMP, PIPING TO THE EXISTING 2FN AIR HANDLING UNIT AND THE REFRIGERANT PIPING TO THE AIR COOLED CONDENSER (SHOWN ON SHEET M-2) WITH THE NEW CHILLED WATER PIPING. COORDINATE WITH ELECTRICAL CONTRACTOR WHEN EXISTING CHILLER, ETC. ARE REMOVED, RECONNECT CHILLED WATER PIPING TO THE NEW CHILLED WATER LINES 2FN AND 2FS.

SHEET M-7
 1. THE LPS AND LPR LINES LOCATED IN THE CRAWL SPACE OF 2FN AND 2FS WILL REMAIN IN USE. ALL PIPING ASSOCIATED WITH THE FIRST FLOOR (2FN AND 2FS) WILL BE DEMOLISHED. ALL PIPING ASSOCIATED WITH THE SECOND FLOOR (2FN AND 2FS) WILL REMAIN IN SERVICE.
 2. COORDINATE REMOVAL OF THE AIR COOLED CONDENSER WITH THE NEW WORK.

SHEET M-8
 1. DEMOLITION WORK SHALL BE DONE IN 2FN AND 2FS, EXCEPT THE REMOVAL OF THE STERILIZERS AND ASSOCIATED MPR AND MPR LINES.



PUMP

TAG NO.	SERVICE
P-CR-9	STEAM CHILLER
P-CR-10	"

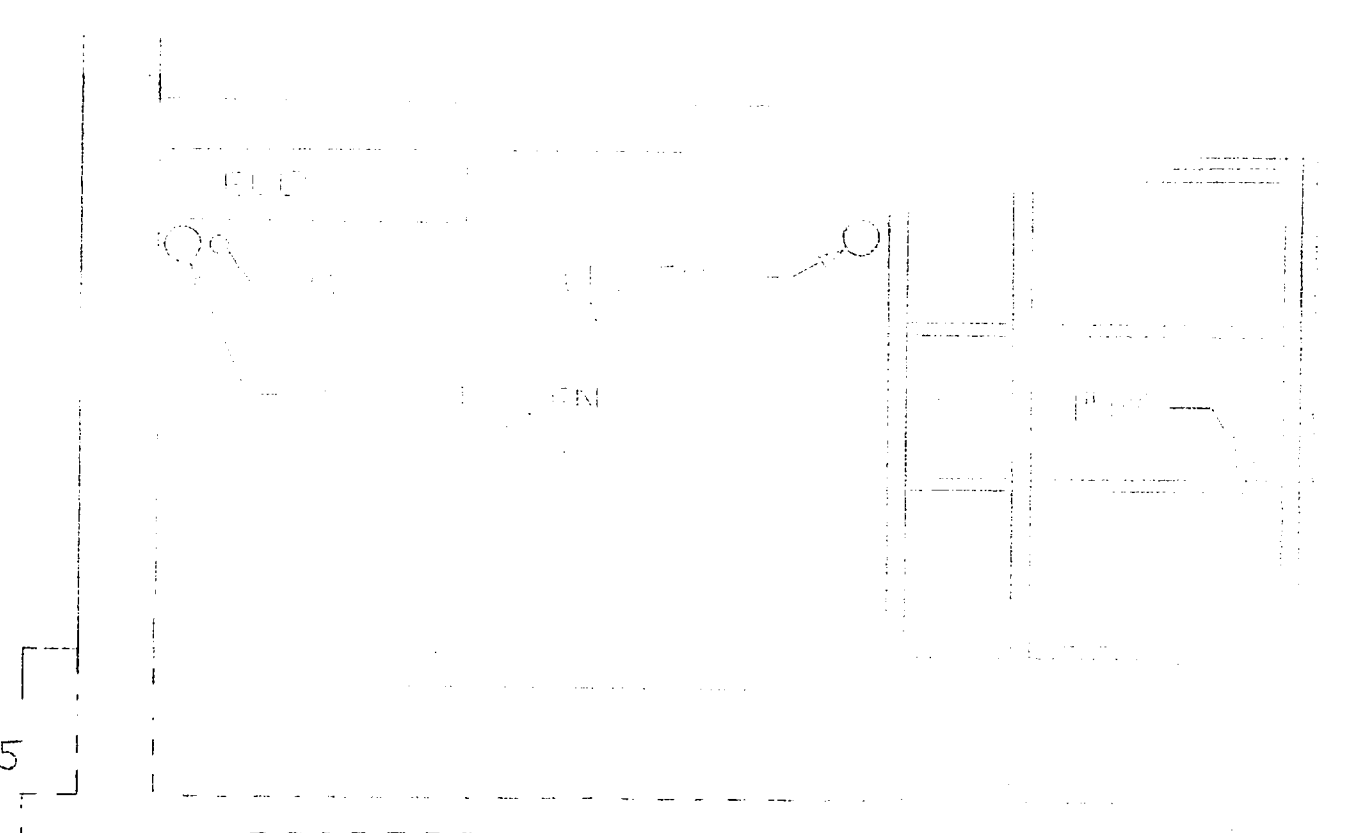
DELETE
 米米

1. Revise Additive No. 3 to read "Additive No. 3 includes all HVAC work shown on Sheets M-1 thru M-9 associated with air conditioning and heating 2F North and 2F South, except that all items of work shall be accomplished to enable existing systems to remain in operation. Delete all work shown on sheet M-52, except for Items No. 3 and No. 4 listed under sheet M-26.

SHEET M-2
 THE STAIRWELL RADIATORS ON EACH SIDE OF CFN AND CFS WILL REMAIN IN PLACE OUTSIDE THE TUNNEL WALLS. ALL ASSOCIATED PIPING INSIDE THE TUNNEL WILL BE DEMOLISHED.
 THE STAIRWELL RADIATORS LOCATED IN THE 2FN AND 2FS WILL BE DEMOLISHED. COORDINATE REMOVAL OF CONDENSERLESS CHILLER, CHILLED WATER PUMP PIPING TO THE EXISTING 2FS AIR HANDLING UNIT AND THE REFRIGERANT PIPING TO THE AIR COOLED CONDENSER (SHOWN ON SHEET M-7) WITH THE NEW CHILLED WATER PIPING. COORDINATE WITH ELECTRICAL CONTRACTOR WHEN EXISTING CHILLER, ETC. ARE REMOVED, RECONNECT CHILLED WATER PIPING TO THE NEW CHILLED WATER LINES SERVING 2F SOUTH.

SHEET M-7
 THE LPS AND LPR LINES LOCATED IN THE CRAWL SPACE OF 2FN AND 2FS WILL REMAIN IN USE. THE RPT LINES OF 2FN AND 2FS WILL BE DEMOLISHED. ALL PIPING ASSOCIATED WITH THE RPT LINES OF 2FN AND 2FS OFF AT THE MAINS IN THE CRAWL SPACE.
 THE LPS LINES LOCATED ON THE SECOND FLOOR (2FN AND 2FS) RADIATORS WILL REMAIN IN SERVICE. COORDINATE REMOVAL OF THE AIR COOLED CONDENSER WITH THE NEW WORK.

SHEET M-8
 NO DEMOLITION WORK SHALL BE DONE IN 2FN AND 2FS, EXCEPT THE REMOVAL OF THE STERILIZERS AND METRIC MPR LINES.



PUMP

TAG NO.	SERVICE
P-CP-9	STEAM ZONE
P-CP-10	"

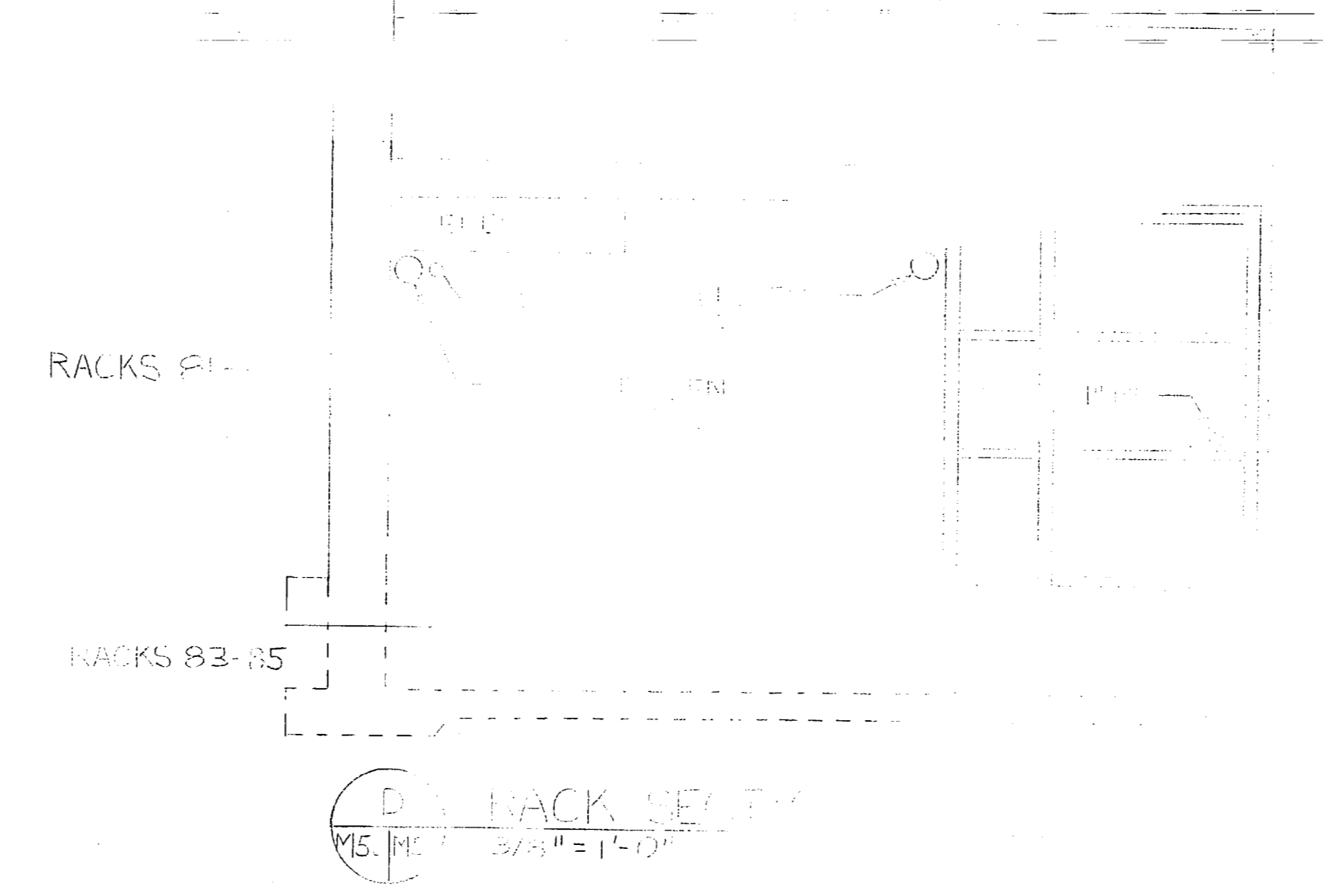
DELETE
 **

ADDITIVE #8 INCLUDES ALL HVAC WORK SHOWN ON THE PLANS ASSOCIATED WITH AIR CONDITIONING AND HEATING IN AND OUT OF THE TUNNEL. IT WILL BE ACCEPTED IF ADDITIVES NO. 1 AND NO. 2 ARE ACCEPTED. IF ADDITIVE NO. 3 IS ACCEPTED, ALL WORK SHOWN ON THIS SHEET SHALL BE DELETED. THE WORK SHOWN ON THIS SHEET IS SUBJECT TO CHANGE WITHOUT NOTICE TO THE CONTRACTOR.

SHEET M-2
 THE 2" X 4" RADIATORS LOCATED ON EACH SIDE OF CFN AND CFC WILL REMAIN IN PLACE OUTSIDE THE TUNNEL RACKS. ALL ASSOCIATED PIPING INSIDE THE TUNNEL WILL BE DEMOLISHED.
 THE 2" X 4" RADIATORS LOCATED IN THE 2FN AND THE MPS AND MPR LINES WILL BE DEMOLISHED. COORDINATE REMOVAL OF CONDENSERLESS CHILLER, CHILLED WATER PUMP, PIPING TO THE EXISTING 2FN AIR HANDLING UNIT AND THE REFRIGERANT PIPING TO THE AIR COOLED CONDENSER (SHOWN ON SHEET M-1) WITH THE NEW CHILLED WATER PIPING. COORDINATE WITH ELECTRICAL CONTRACTOR WHEN EXISTING CHILLER, ETC., ARE REMOVED, RECONNECT CHILLED WATER PIPING TO THE NEW CHILLED WATER LINES SHOWN ON SHEET M-1.

SHEET M-7
 THE LPS AND LPR LINES LOCATED IN THE CRAWL SPACE OF 2FN AND 2FS WILL REMAIN IN USE. THE 2" X 4" RADIATORS LOCATED IN 2FN AND 2FS WILL BE DEMOLISHED. ALL PIPING ASSOCIATED WITH THE 2" X 4" RADIATORS SHALL BE CUT OFF AT THE MAINS IN THE CRAWL SPACE. COORDINATE REMOVAL OF THE AIR COOLED CONDENSER WITH THE NEW WORK.

SHEET M-8
 NO DEMOLITION WORK SHALL BE DONE IN 2FN AND 2FS, EXCEPT THE REMOVAL OF THE STERILIZERS AND ASSOCIATED MPS AND MPR LINES.



TAG NO.	SERVICE
P-CP-9	STEAM COND
P-CP-10	"

DELETE
**

