

PUMP SCHEDULE							
MARK	GPM	HEAD- FT.	RPM	HP	VOLTS/ø	TYPE	SERVICE
CW1	1200	60	1750	25	480/3	HORIZONTAL SPLIT CASE	CHILLED WATER
CW2	1200	60	1750	25	480/3	HORIZONTAL SPLIT CASE	CHILLED WATER
PHW1	482	18	1750	5	480/3	END SUCTION	PRIMARY HOT WATER
PHW2	482	18	1750	5	480/3	END SUCTION	PRIMARY HOT WATER
HW1	964	80	1750	30	480/3	HORIZONTAL SPLIT CASE	SECONDARY HOT WATER-BUILDING
CT1	1422	40	1150	20	480/3	HORIZONTAL SPLIT CASE	CONDENSER WATER
CT2	1422	40	1150	20	480/3	HORIZONTAL SPLIT CASE	CONDENSER WATER
ER1	109	24	1750	1 1/2	480/3	END SUCTION	ENERGY RECOVERY
ER2	89	24	1750	1 1/2	480/3	END SUCTION	ENERGY RECOVERY
ER3	154	24	1750	1 1/2	480/3	END SUCTION	ENERGY RECOVERY
ER4	128	24	1750	1 1/2	480/3	END SUCTION	ENERGY RECOVERY
HW2	12.5	17	1750	1/3	115/1	IN - LINE	SECONDARY HOT WATER-ANIMAL HOUSE

REMARKS:
1. CONSTANT SPEED
2. VARIABLE SPEED
3. ACTUAL FLOW RATE AS DICTATED BY CHILLER SELECTION
4. 30% ETHYLENE GLYCOL SOLUTION

BOILER SCHEDULE				
NO.	NET WATER RATING-MBH	INPUT NAT. GAS MBH	NO. 2 OIL GPH	BURNER VOLTS/ø
1	4817	6921	49.9	480/3
2	4817	6921	49.9	480/3

CHILLER SCHEDULE							
NO.	TONS	EVAPORATOR			CONDENSER		
		LCWT-F	GPM	MAX. P.D.	EW-T-F	GPM	MAX. P.D.
1	500	42	1200	22'	85	1422	22'
2	500	42	1200	22'	85	1422	22'

EXHAUST FAN SCHEDULE									
NO.	CFM	S.P. IN.	HP	AMPS	RPM	VOLTS/ PHASE	WHEEL DIA. IN.	TYPE	SERVICE
1	4000	1/2	3/4	-	777	480/3	22.25	B.I. CENTRIFUGAL	MECH. RM.
2	3000	1/2	3/4	-	968	480/3	18.25	B.I. CENTRIFUGAL	BOILER RM.
3	3050	3/4	3/4	-	791	480/3	22.25	B.I. CENTRIFUGAL	ANIMAL HOLDING
4	750	3/4	1/3	-	1245	115/1	12.25	B.I. CENTRIFUGAL	RADIOISOTOPE
5	310	3/8	1/4	-	1200	115/1	11.19	INLINE CENTRIFUGAL	FLAMMABLE STOR.

- ① THERMOSTATICALLY CONTROLLED
② FURNISH & INSTALL DISCONNECT SWITCH AT FAN LOCATION
③ BELT DRIVE
④ DIRECT DRIVE
⑤ EXPLOSIONPROOF CONSTRUCTION AND MOTOR

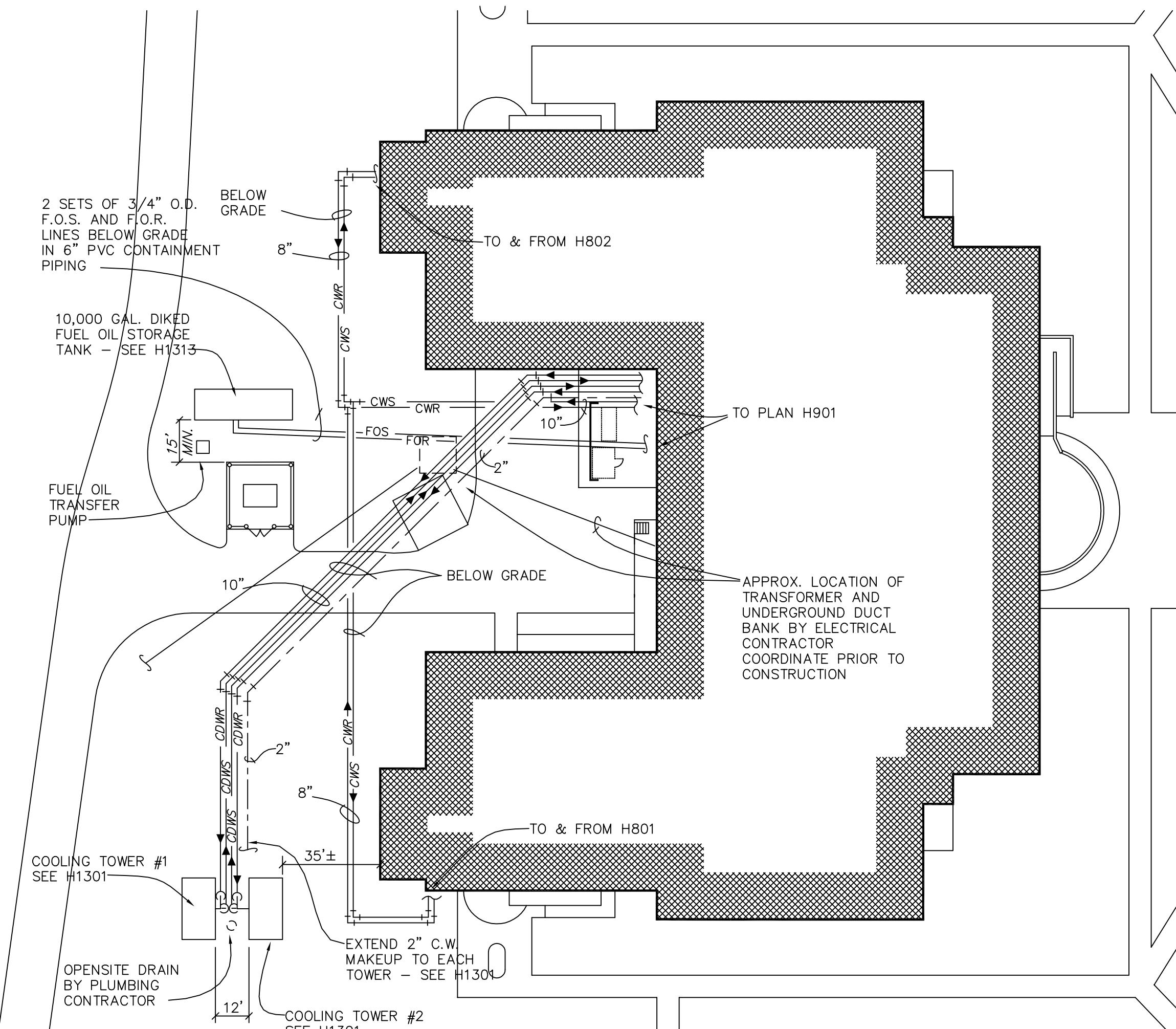
H&AC UNIT SCHEDULE																				
NO.	FAN	COOLING COIL ①								REHEAT COIL ②				ELECTRIC PREHEAT COIL						
		S.A. CFM	O.A. CFM	ESP IN.	RPM	HP	VOLTS/ PHASE	TC MBH	SHC MBH	EDB °F	EWB °F	SST °F	CAP MBH	EDB °F	VALVE		KW TOTAL	STAGES	KW PER STAGE	VOLTS/ø
															SIZE	CV				
1	2500	2500	0.30	1150		1 1/2	480/3	198.8	97.7	95	80	48.1	125.0	40	1"	12	30	3	10	480/3

- ① 500 FPM MAXIMUM COIL FACE VELOCITY
② BASED ON 200F EWT, 180F LWT AND 500 FPM MAXIMUM COIL FACE VELOCITY

FUME EXHAUST SCHEDULE ①			
PLAN DESIGNATION	DESCRIPTION	CFM	MOTORIZED DAMPERS (NO. OF)
[C1] ②	CABINET	50	4"ø
[C2]	CABINET	150	4"ø
[C3]	DARK ROOM	200	4"ø
[B1]	BENCH EXHAUSTED THIS FLOOR	125	8"ø
[B2]	BENCH EXHAUSTED THIS FLOOR	250	10"ø
[H1]	CANOPY HOOD	400	8"ø COLLAR
[S1]	SNORKEL	100	4"ø
[S2]	SNORKEL	50	4"ø
[U1]	UMBILICAL	1600	-
[U2]	UMBILICAL	800	-

- ① DOES NOT INCLUDE FUME HOODS - LF PLANS
② DUCT COLLAR OFF BACKSPASH AT 48" A.F.F.
③ ALL EXHAUST INLETS SHALL HAVE MANUAL DAMPERS FOR BALANCING PURPOSES

CONDENSING UNIT SCHEDULE				
NO.	MBH NET	SST F	AMBIENT AIR TEMP. F	VOLTS/ø
1	198.8	48.1	95	480/3



H1
01 SCIENCE BUILDING
PARTIAL SITE PLAN
SCALE: 1" = 40'-0"

COOLING TOWER SCHEDULE									
NO.	GPM	EWT	LWT	AMBIENT AIR WB = F	FAN			SUMP HEAT	
		F	F		CFM	HP	VOLTS/ø	KW	VOLTS/ø
1	1450	95	85	80	181,800	40	480/3	24	480/3
2	1450	95	85	80	181,800	40	480/3	24	480/3
-	-	-	-	-	-	-	-	-	-

SLOT DIFFUSER SCHEDULE									
DESIGNATION	DESIGN CFM RANGE	LENGTH IN.	SLOTS ④		BLOW PATTERN ①	THROW FT. ②	DUCT CONNECTION DIA.-IN.	MAX. NC. ③	CEILING TYPE
			NO.	SIZE (IN.)					
A	50-200	24	2	1	1 WAY	18	9	30	ATC
B	50-200	24	2	1	2 WAY	14	9	27	ATC
C	50-400	48	2	1	2 WAY	14	10	27	ATC
D	50-400	48	2	1	1 WAY	18	10	30	ATC
E	50-600	48	3	1	2 WAY	20	12	32	ATC
F	50-800	48	4	1	2 WAY	18	12	30	ATC
G	50-400	24	4	1	2 WAY	18	10	30	ATC
H	50-400	48	2	1	2 WAY	14	10	27	GYP. BD.

- ① SPLIT IN WIDTH OF DIFFUSER (2-WAY DISCHARGES)
② BASED ON 150 FPM VELOCITY AT LOWER AND UPPER DESIGN CFM
③ BASED ON MAXIMUM CFM AND 8db ROOM ATTENUATION
④ MAXIMUM TOTAL PRESSURE LOSS TO BE 0.20" FOR 1 SLOT DISCHARGE AND 0.10" FOR 2 SLOT DISCHARGE

H&AC LEGEND

	DUCTWORK
	INDICATES RISE IN DUCT IN DIRECTION OF ARROW - USE 45° ELBOWS WHEREVER POSSIBLE
	ROUND FLEXIBLE DUCTWORK
	24 x 4
	1100
	18 x 18 OBD
	250
	E
	150
	8 - 24
	250
	24 x 24
	30 x 12 L
	30 x 12 UNL
	20 x 12
	30 x 12ø
	10ø
	MANUAL MOTOR SENTINEL - 40" A.F.F.
	ELECTRICAL OUTLET BY ELECTRICAL CONTRACTOR
	A.F.C.
	A.F.F.
	A.F.G.
	B.A.S.
	B.D.
	B.F.C.
	B.F.F.
	B.F.G.
	CONDENSATE
	E.B.
	E.F.
	EXHAUST
	EXHAUST UNIT
	FIRE DAMPER IN 2 HOUR RATED WALL OR FLOOR
	HEATING AND AIR CONDITIONING
	MOTOR STARTER
	NOT IN CONTRACT
	OUTDOOR AIR
	OPPOSED BLADE DAMPER
	SUPPLY AIR
	UNLESS NOTED OTHERWISE
	VARIABLE AIR VOLUME
	WEATHER PROOF
	HUMIDITY SENSOR - MT. 60" A.F.F.
	PRESSURE SENSOR
	TEMPERATURE SENSOR - 60" A.F.F.
	THERMOSTAT WITH ZONE INDICATED - 40" A.F.F.
	THERMOSTAT WITH TS' - 105' TEMPERATURE RANGE - 40" A.F.F.
	DESIGNATION FOR VARIABLE AIR OR CONSTANT VOLUME TERMINAL INDICATES LATERAL BRANCH TAP (CONICAL TEE OR CROSS) TAKING OFF FROM MAIN AT 45° BELOW HORIZONTAL
	DIRECTION OF FLOW
	PIPE ANCHOR
	GATE VALVE
	BALANCING COCK
	GLOBE VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	BALL VALVE
	STRAINER
	UNION
	COLD WATER PIPING
	CONDENSATE PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	DRAIN PAN PIPING
	FUEL OIL SUPPLY PIPING
	FUEL OIL RETURN PIPING
	GAS PIPING
	GLYCOL SUPPLY PIPING
	GLYCOL RETURN PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	LIQUID REFRIGERANT PIPING
	SUCTION REFRIGERANT PIPING
	MOTOR STARTER WITH PUSH BUTTON ON-OFF SWITCH - 48" A.F.F.

HVAC NOTES

- LINE ALL LOW PRESSURE RECTANGULAR DUCT WITH 1" THICK, 1 1/2# DENSITY FIBERGLASS DUCT LINER, UNLESS NOTED OTHERWISE.
- ALL RECTANGULAR DUCT FOR WHICH EITHER DIMENSION IS 6" OR LESS AND ALL ROUND RIGID DUCT SHALL BE WRAPPED WITH 2" THICK FIBERGLASS WITH FOIL VAPOR BARRIER AND SHALL NOT BE LINED INTERNALLY.
- ALL RIGID DUCT DIMENSIONS ARE ACTUAL SHEET METAL SIZE IN INCHES.
- WHERE REFRIGERANT PIPES PENETRATE EXTERIOR WALLS USE SCHEDULE 40 BLACK STEEL PIPE AS SLEEVE THROUGH WALL. INSULATE BOTH PIPES THROUGH SLEEVE AND SEAL WITH MASTIC TO BE WATERTIGHT. SEE PLANS FOR SLEEVE SIZE.
- FIRE SEAL WALL PENETRATIONS PER DETAILS SHITES FP-1 AND FP-2.
- PROVIDE MANUAL BALANCING DAMPERS IN BRANCH EXHAUST DUCTS TO SNORKELS, VENTILATED CABINETS AND CANOPY HOODS
- GENERAL EXHAUST AIR QUANTITIES INDICATED ON THE DRAWINGS FOR LABORATORIES ARE APPROXIMATE MAXIMUMS AND COINCIDE WITH MINIMUM AIR FLOWS FROM FUME HOODS, DOWNDRAFT BENCHES, AND ANY OTHER EQUIPMENT WITH REGULATED EXHAUST.
- COORDINATE INSTALLATION OF EXHAUST VALVES WITHIN DOWNDRAFT, BIO/CHEM AND LECTURE BENCHES WITH LAB FURNITURE SUPPLIER.
- COORDINATE ROUTING AND TRENCHING FOR UNDERGROUND PIPING WITH PLUMBING, ELECTRICAL AND SPRINKLER CONTRACTORS. SEE PID1, SPID1 AND EID1.

TOTAL CONNECTED LOAD

COOLING COILS:		
CHILLED WATER		1159.4 TONS
DX		16.6 TONS
HEATING COILS:		
REHEAT TERMINALS		7250 MBH
PREHEAT COILS		1058 MBH
REHEAT COILS		1710 MBH
ELECTRIC		30 KW



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ASSOCIATES
ARCHITECTS • PLANNERS

SEA TOWERS SUITE 201
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WILMINGTON, N.C. 28403

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UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
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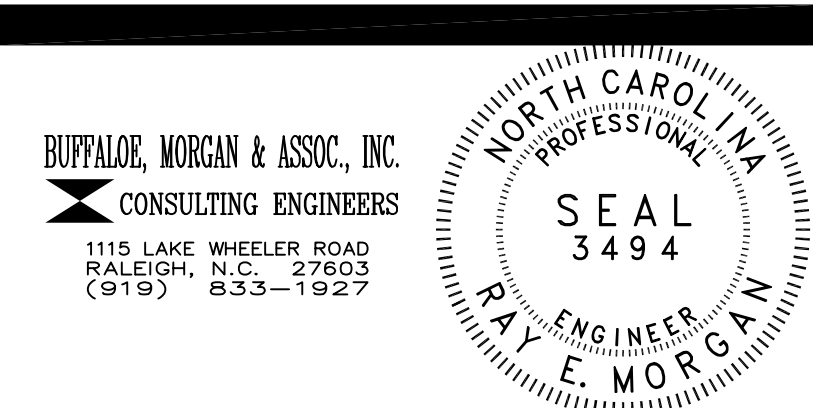
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SCIENCE BUILDING - SITE PLAN
LEGEND, NOTES, LOAD

SHEET NO.:

H1

OF 13

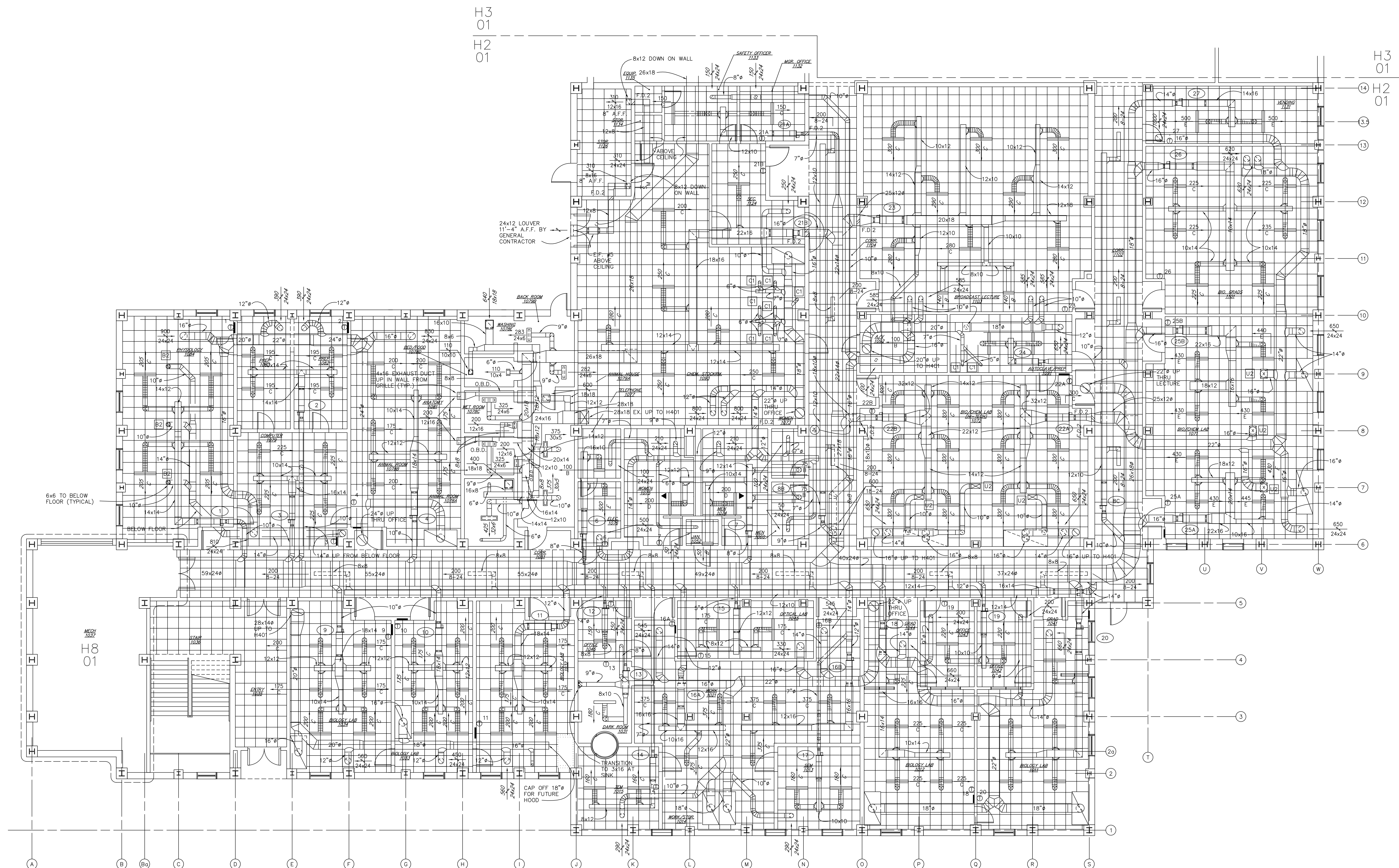


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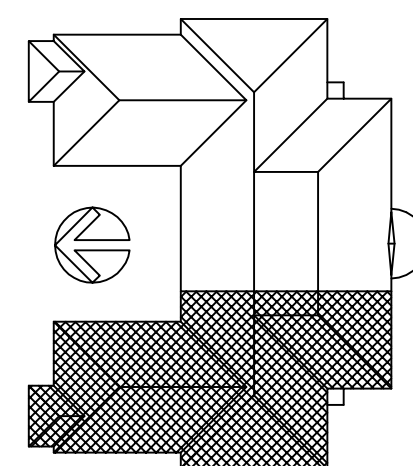
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DATE: 16 MAY, 1994
PROJECT#: 9305

DESIGNED BY: .
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KEY PLAN



H2
01

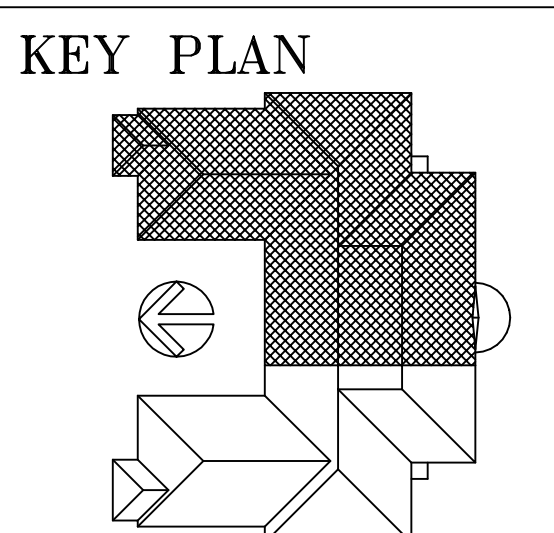
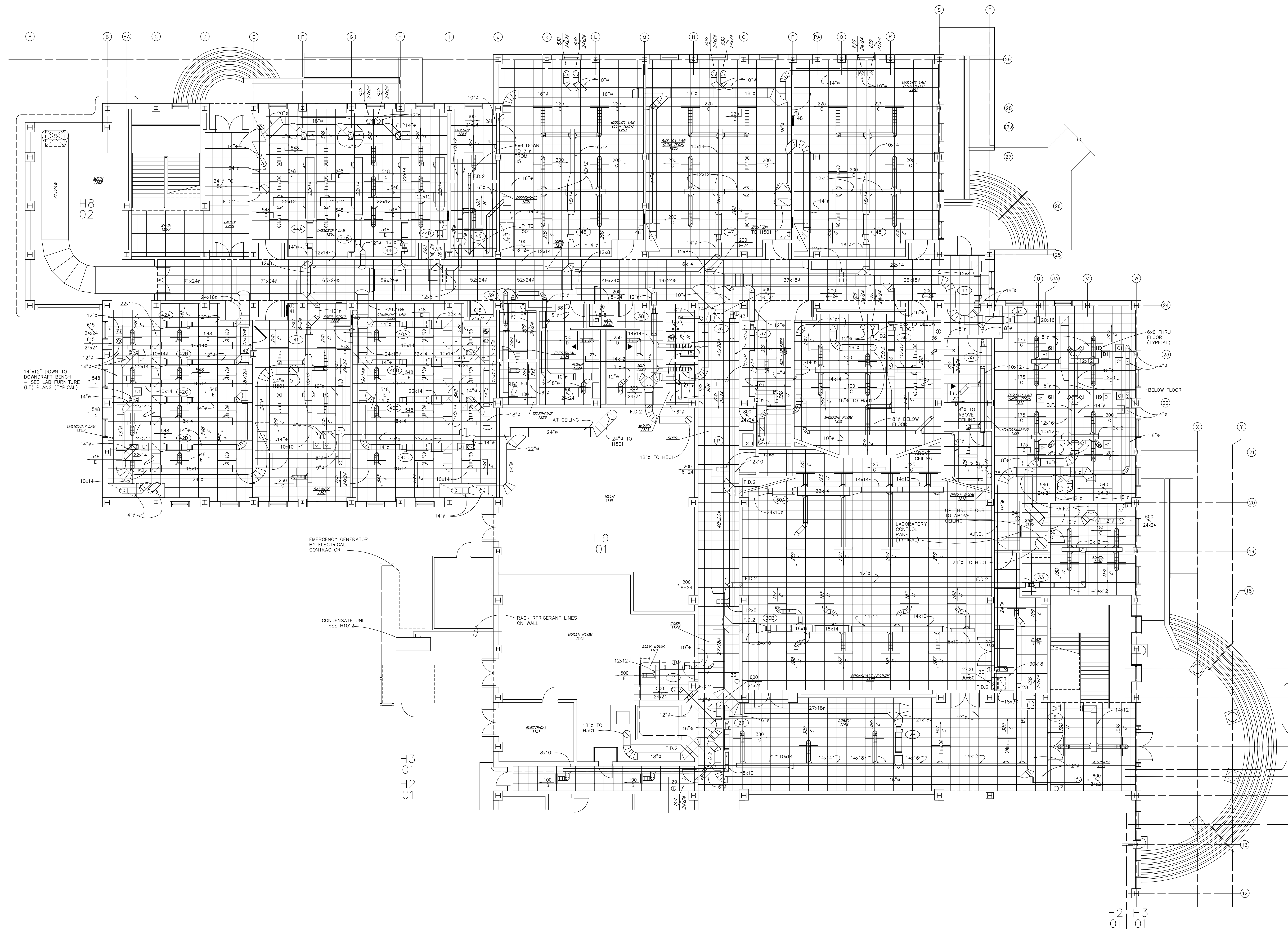
FIRST FLOOR - WEST - HVAC
FLOOR PLAN
SCALE: 1/8" = 1'-0"

BUFFALO, MORGAN & ASSOC., INC.
CONSULTING ENGINEERS
115 LANE WHEELER ROAD
PALESTINE, N.C. 27653
(910) 513-1527

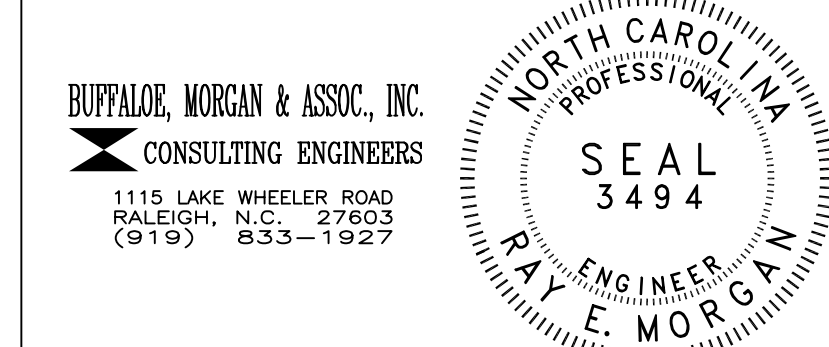
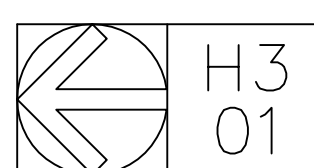
SEAL
3494
R. E. MORGAN
ENGINEER

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FIRST FLOOR - EAST - HVAC
FLOOR PLAN
SCALE: 1/8" = 1'-0"

[illegible]

DATE: 16 MAY, 1994
PROJECT#: 9305
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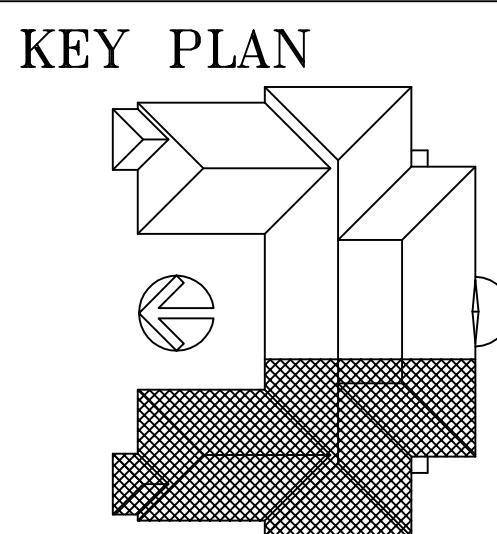
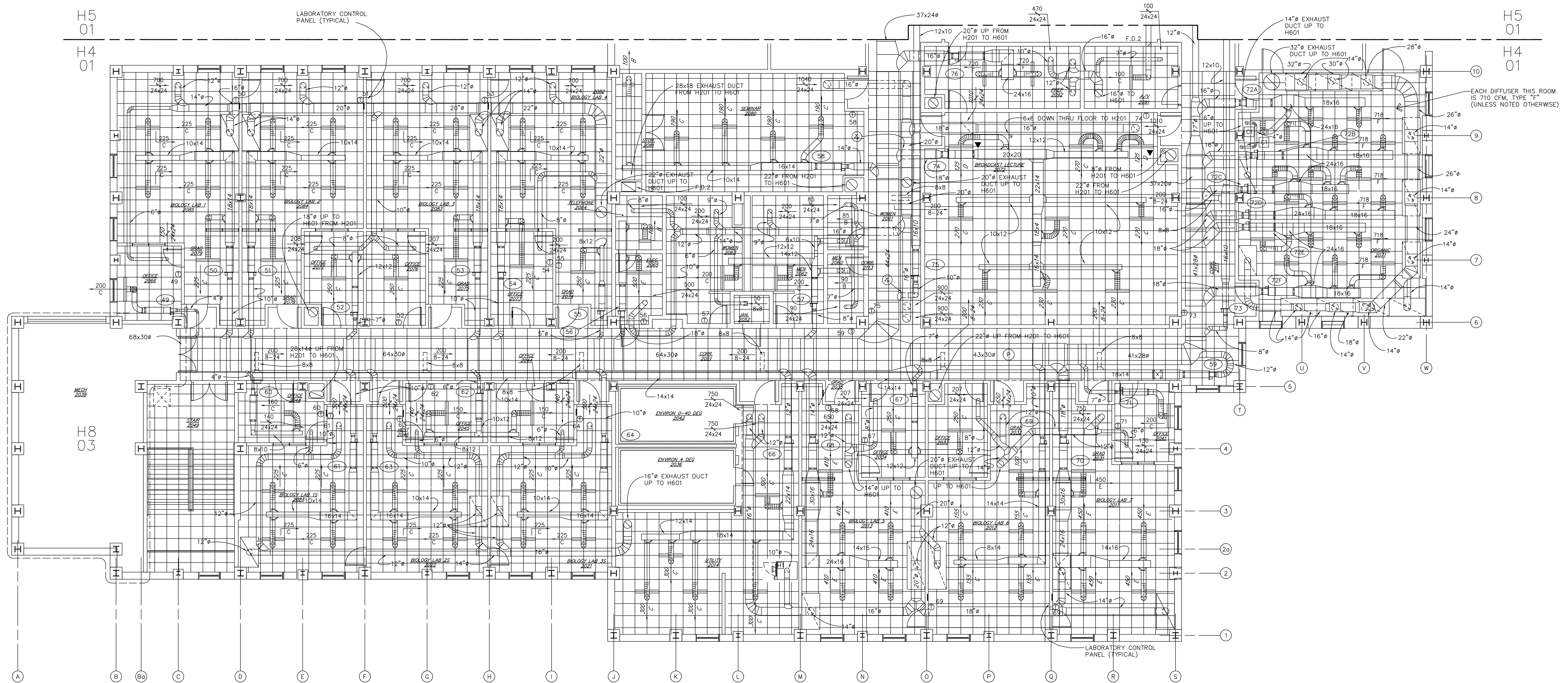
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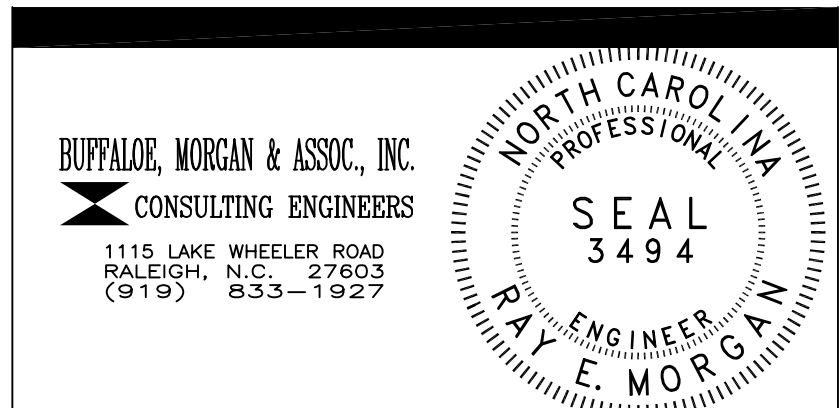
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SECOND FLOOR WEST - HVAC



H4
01

SECOND FLOOR - WEST - HVAC
FLOOR PLAN
SCALE: 1/8" = 1'-0"



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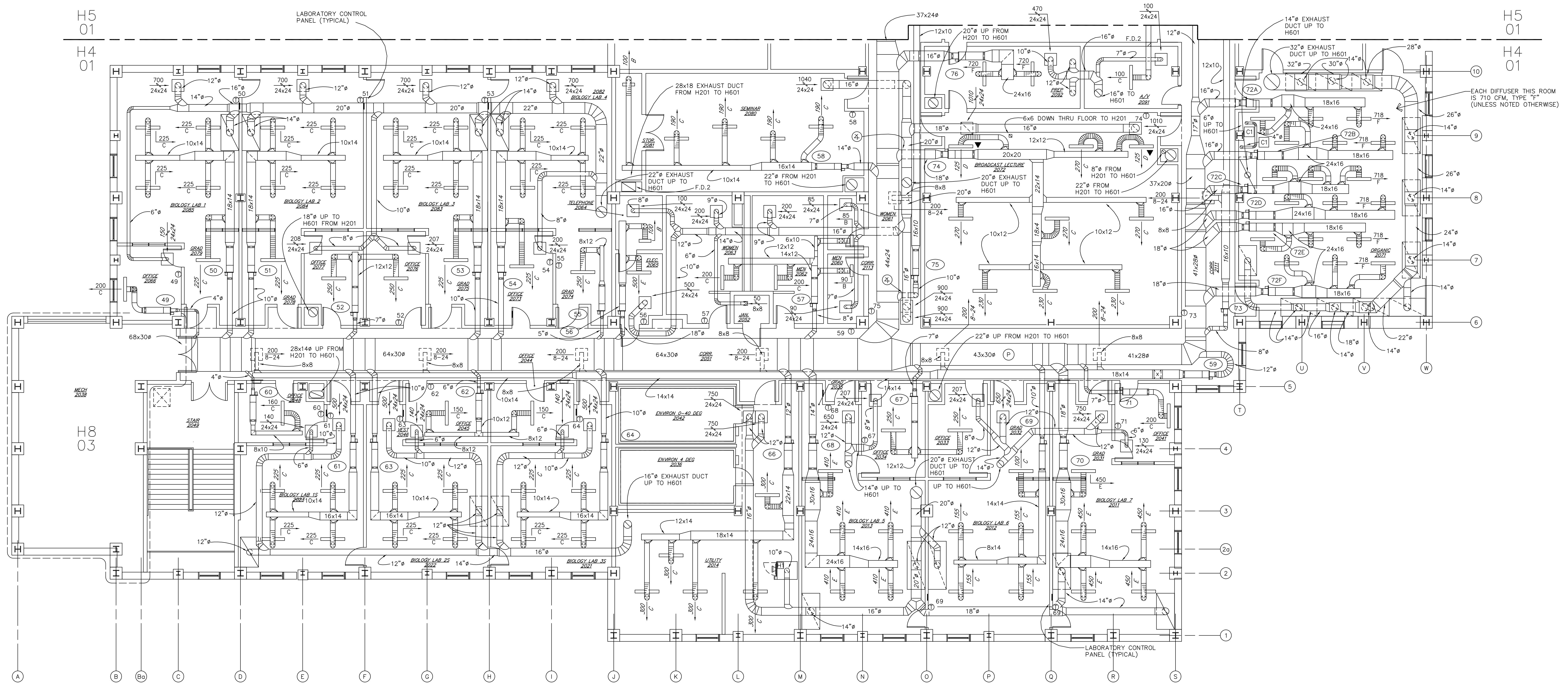
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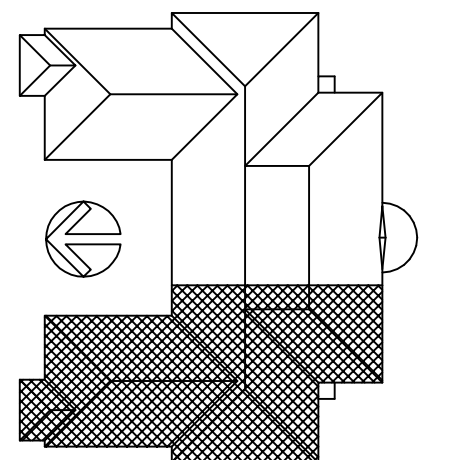
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SECOND FLOOR WEST - HVAC

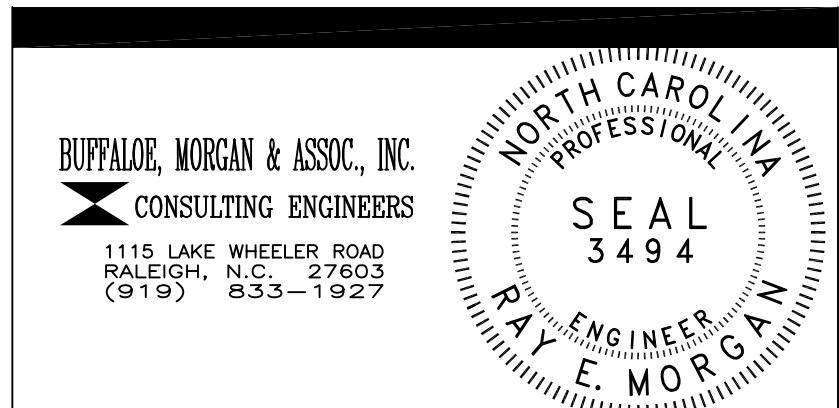


KEY PLAN



H4
01

SECOND FLOOR - WEST - HVAC
FLOOR PLAN
SCALE: 1/8" = 1'-0"



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NO.	DATE	REMARKS

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H4
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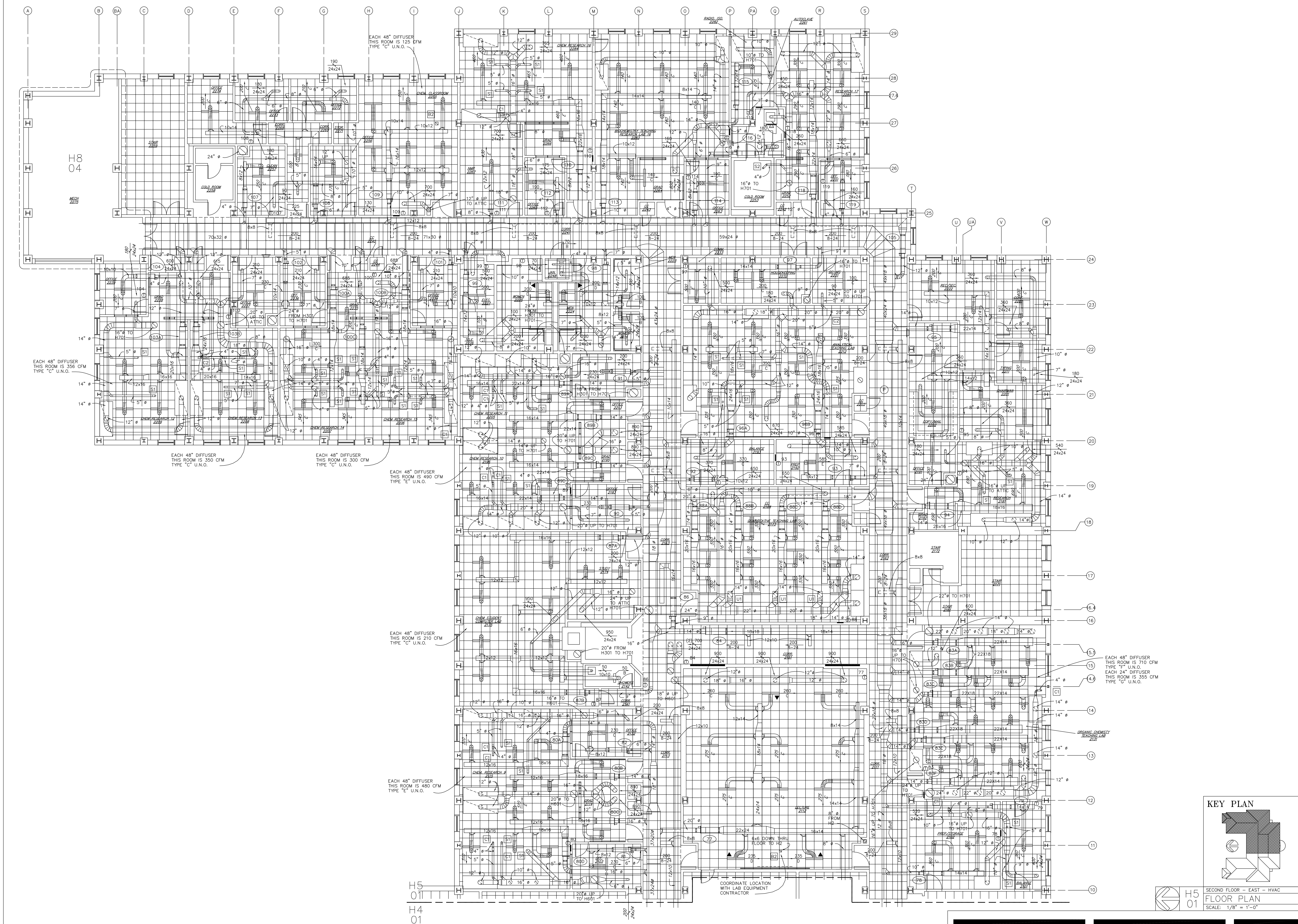
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SECOND FLOOR EAST - HVAC
DETAILS

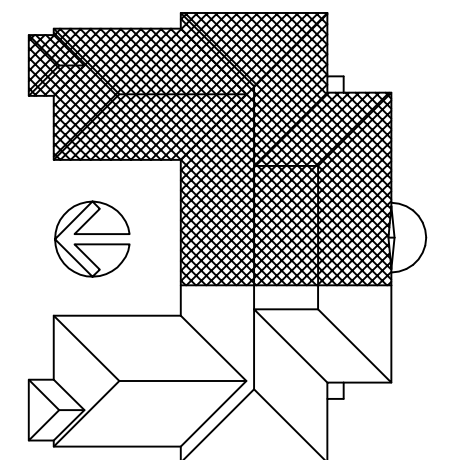
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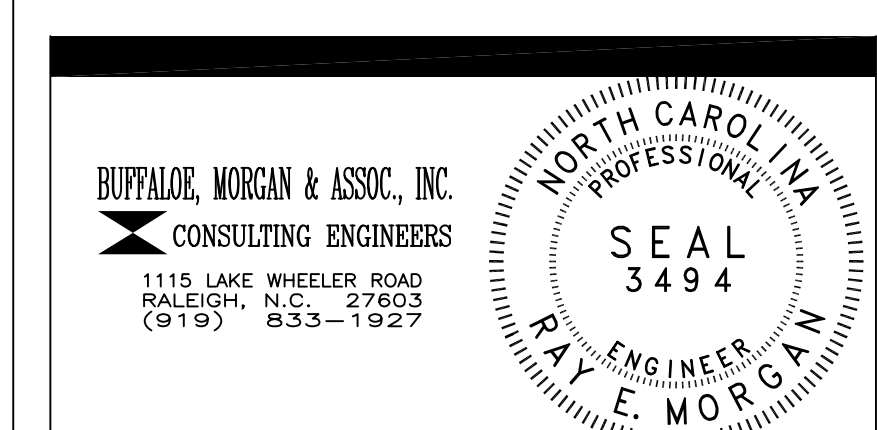
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KEY PLAN

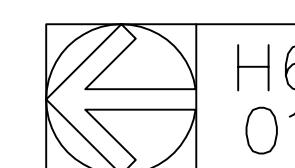
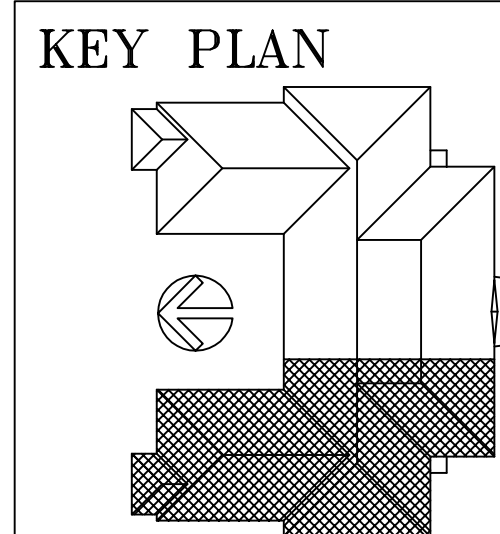
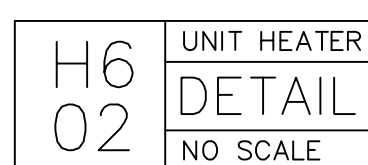


H5
01
SECOND FLOOR - EAST - HVAC
FLOOR PLAN
SCALE: 1/8" = 1'-0"

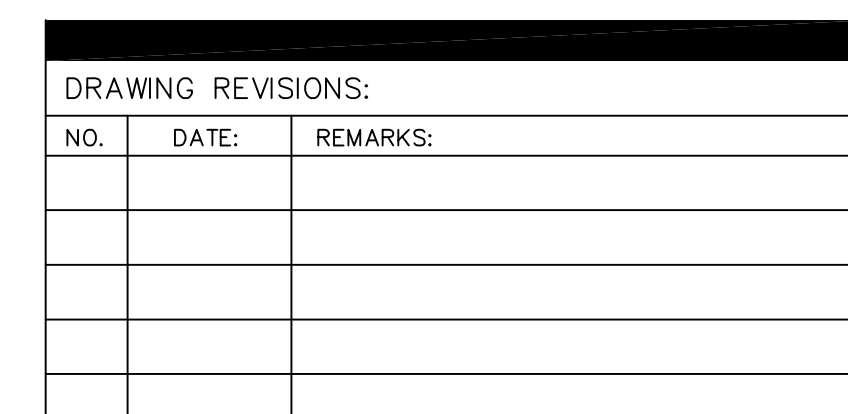


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NO.	DATE	REMARKS

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DESIGNED BY: WMP/NDM
DRAWN BY: NJC
CHECKED BY: REM
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ATTIC - WEST
FLOOR PLAN
SCALE: 1/8" = 1'-0"



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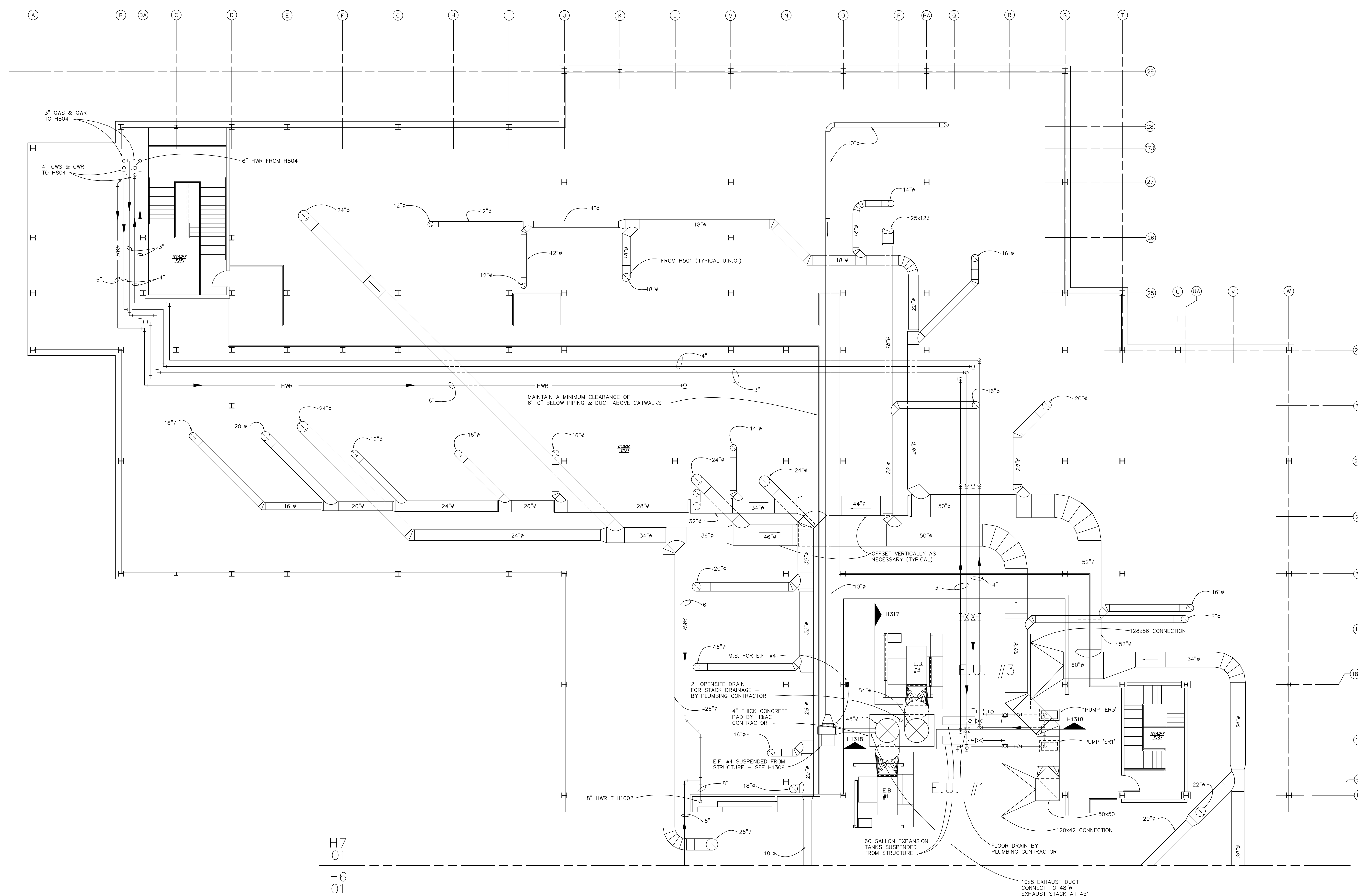
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LIGHTING AND POWER

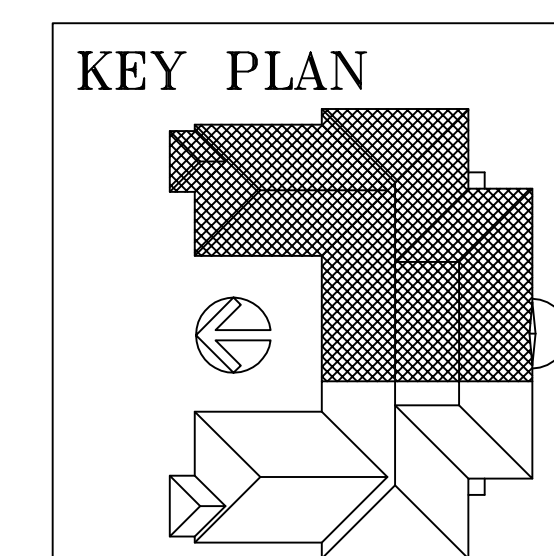
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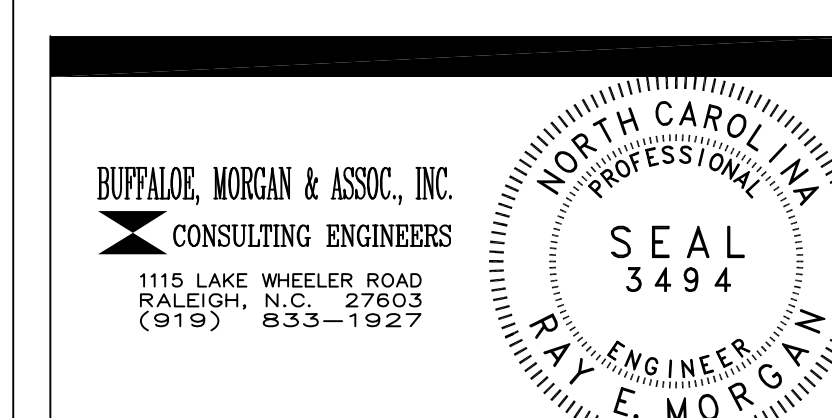
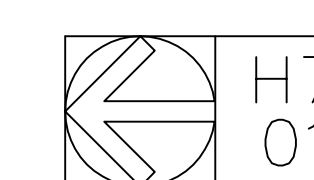


H7
01
H6
01



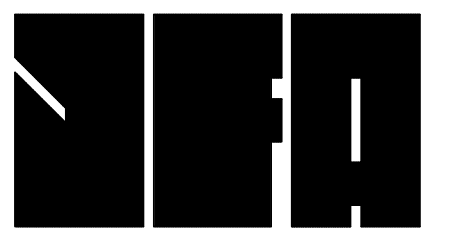
ATTIC - EAST
FLOOR PLAN

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

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PROJECT#: 9305
DESIGNED BY:
DRAWN BY: DRD
CHECKED BY: REM
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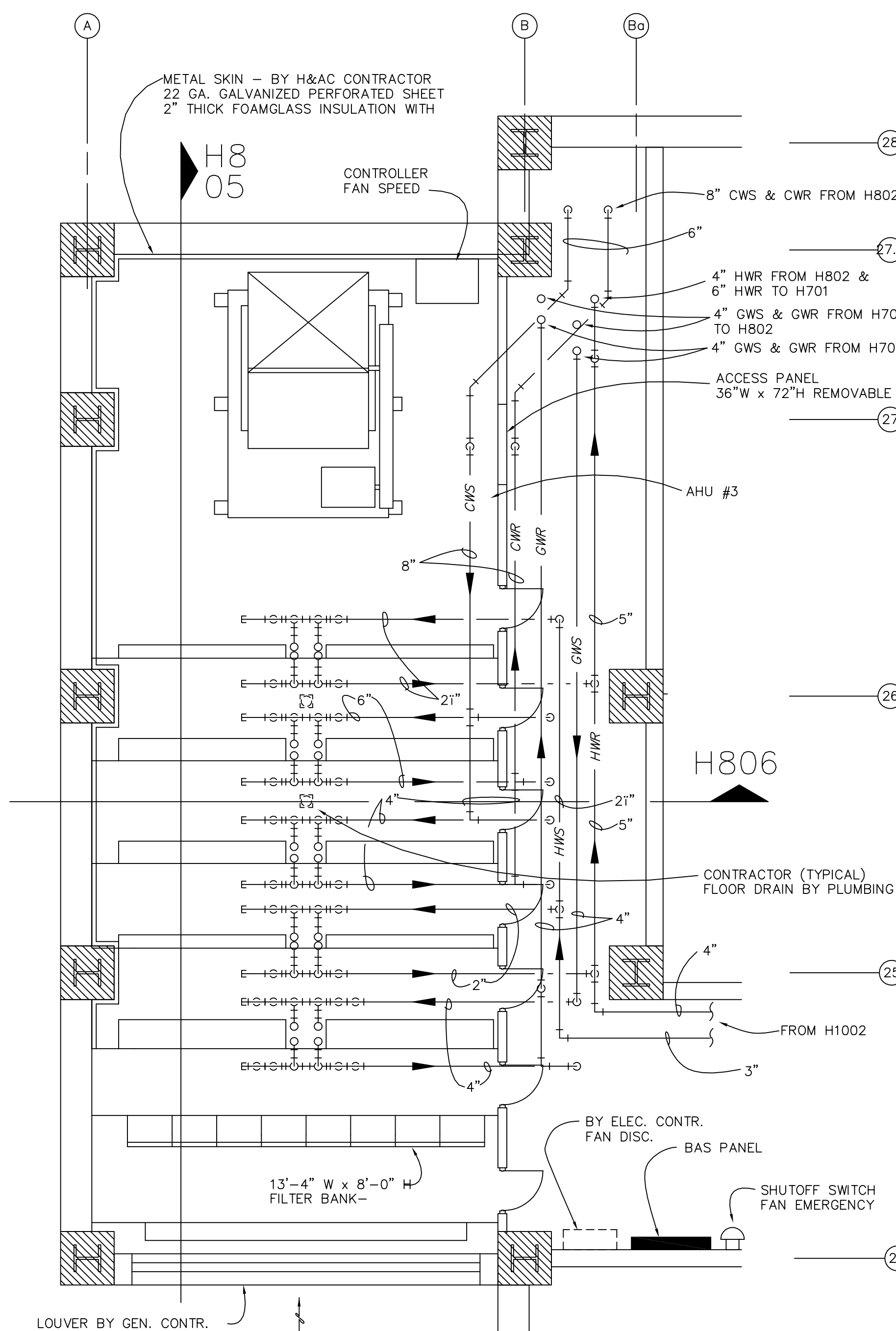
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ENLARGED PLANS
DETAILS

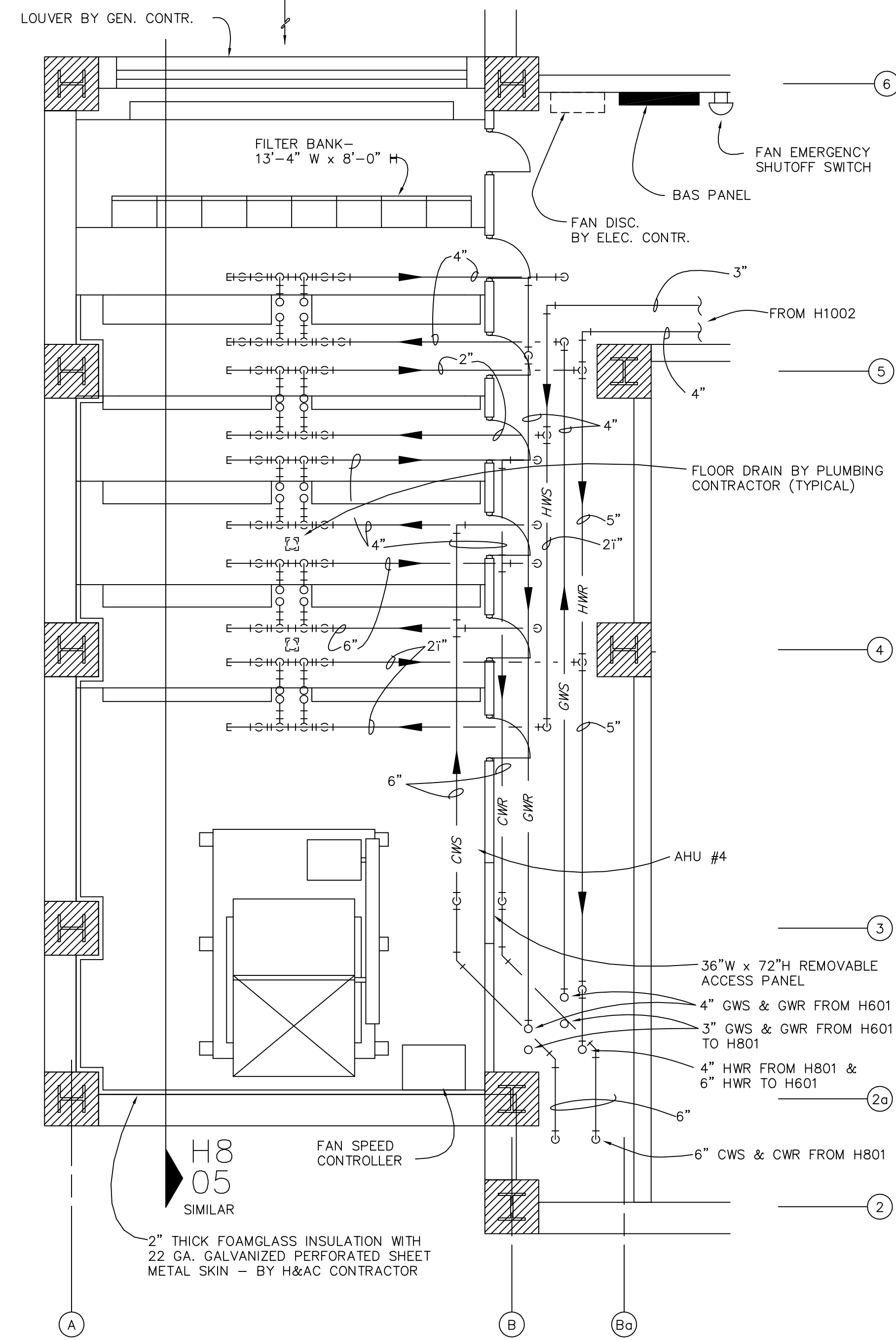
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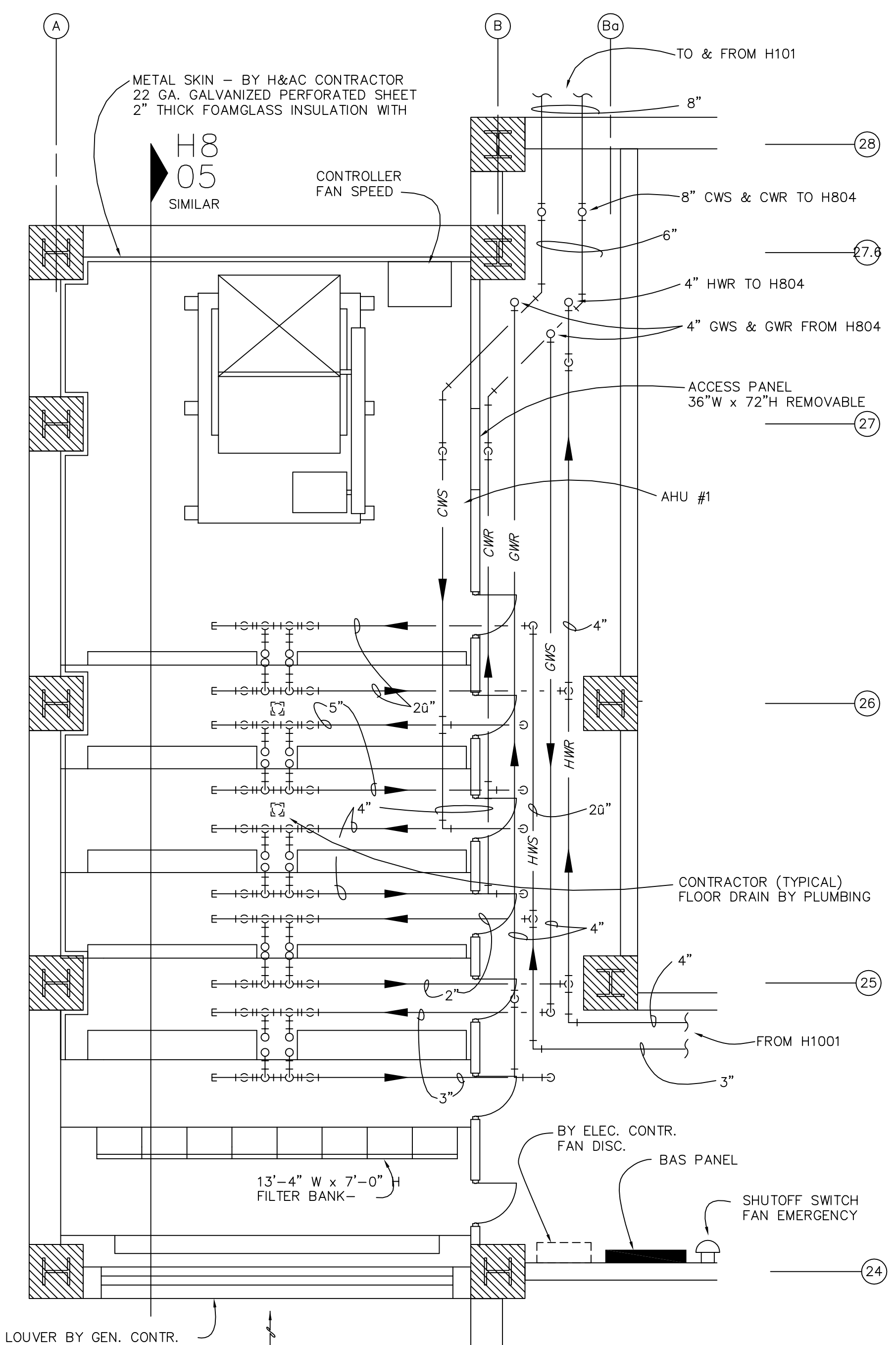
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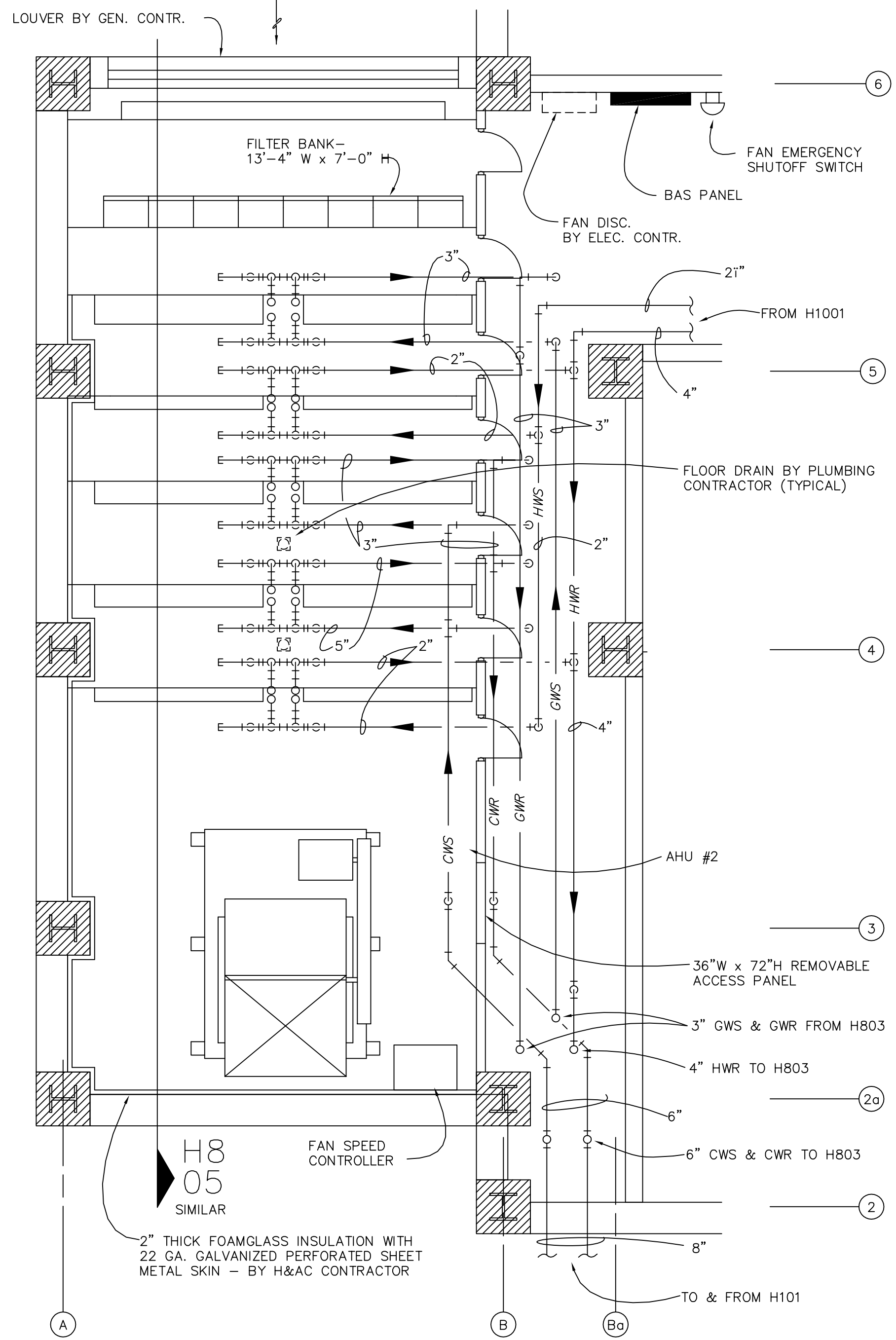
H8 04 MECHANICAL ROOM - 2275
ENLARGED PLAN
SCALE: 1/4" = 1'-0"



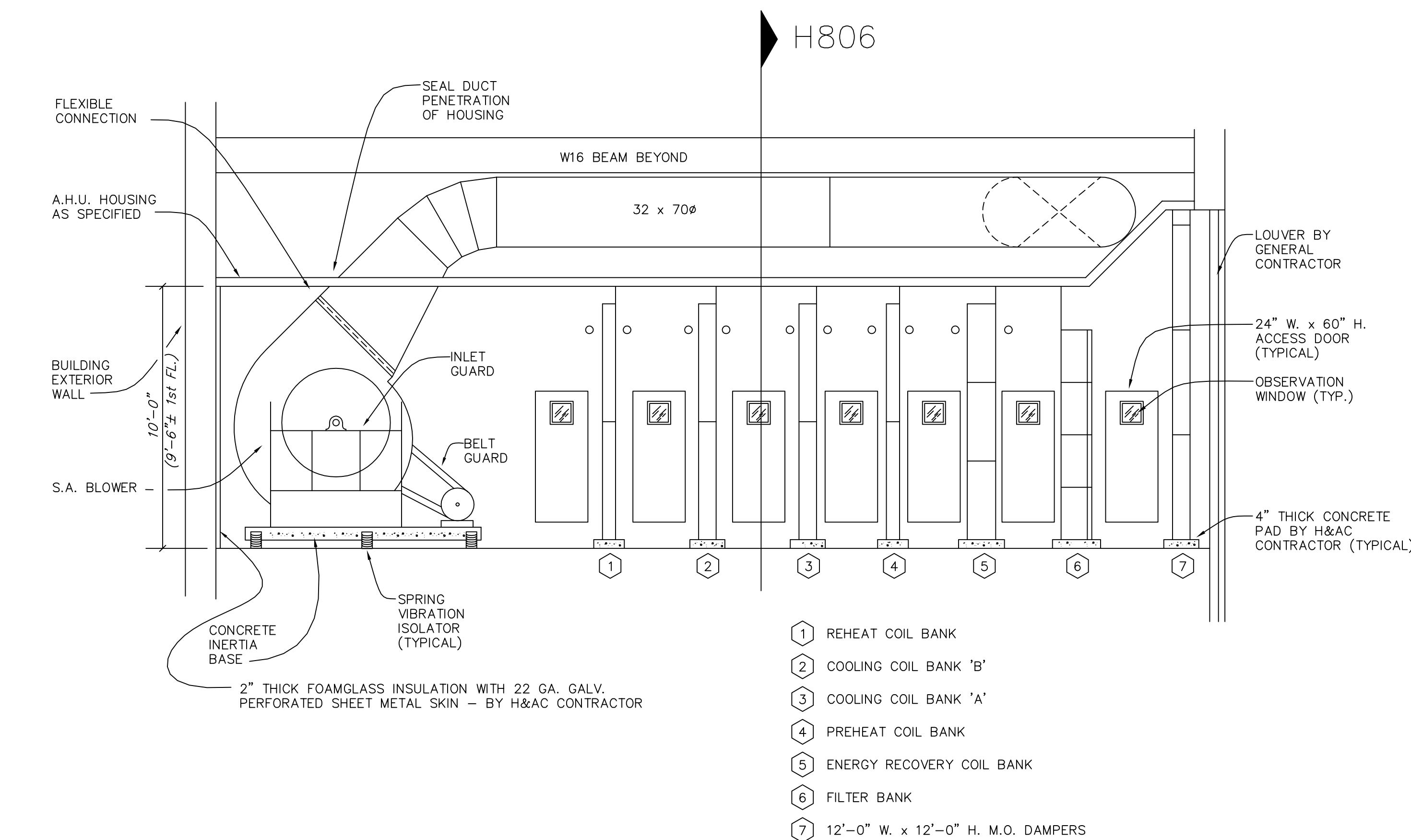
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ENLARGED PLAN
SCALE: 1/4" = 1'-0"



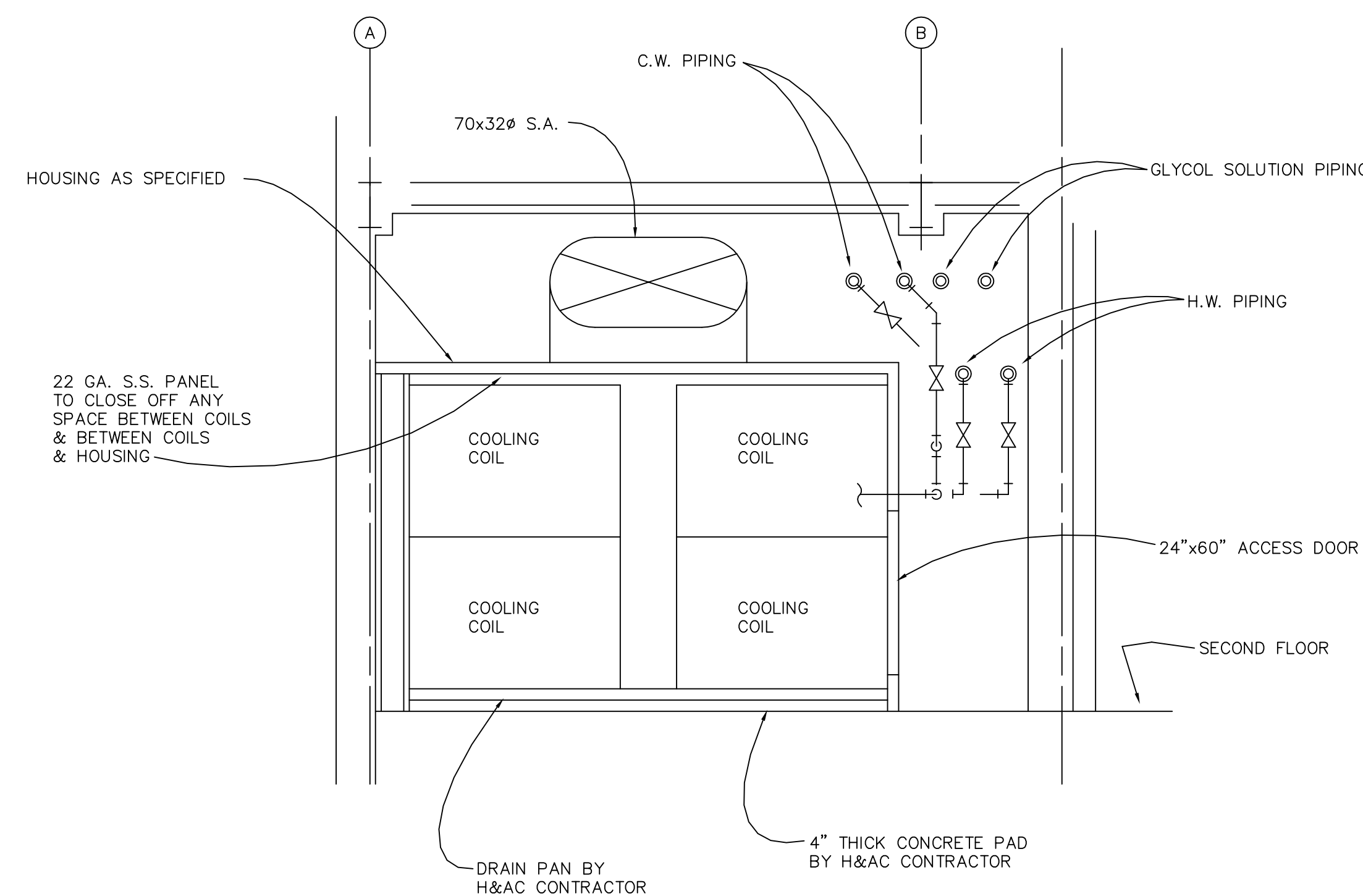
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ENLARGED PLAN
SCALE: 1/4" = 1'-0"



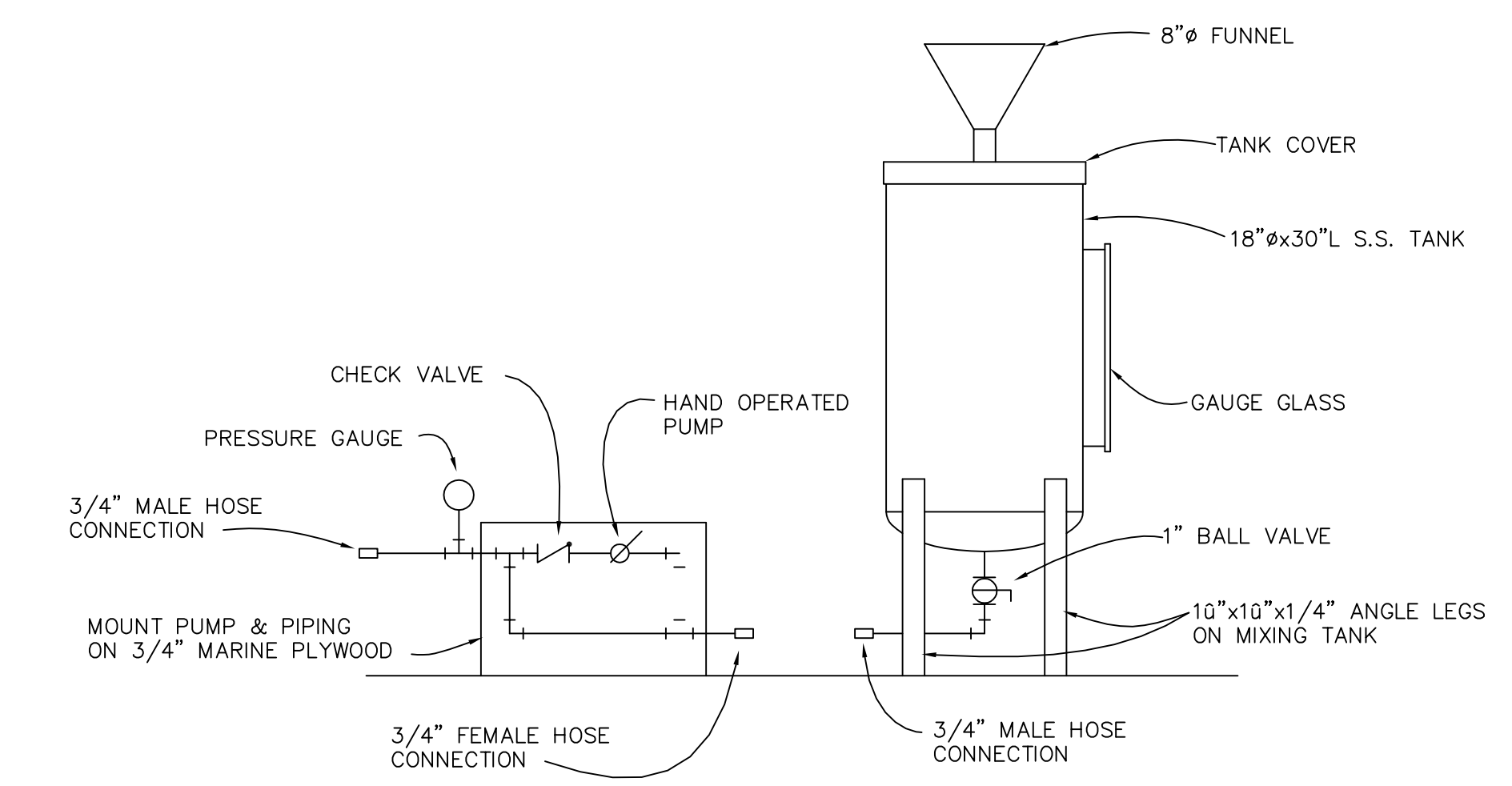
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ENLARGED PLAN
SCALE: 1/4" = 1'-0"



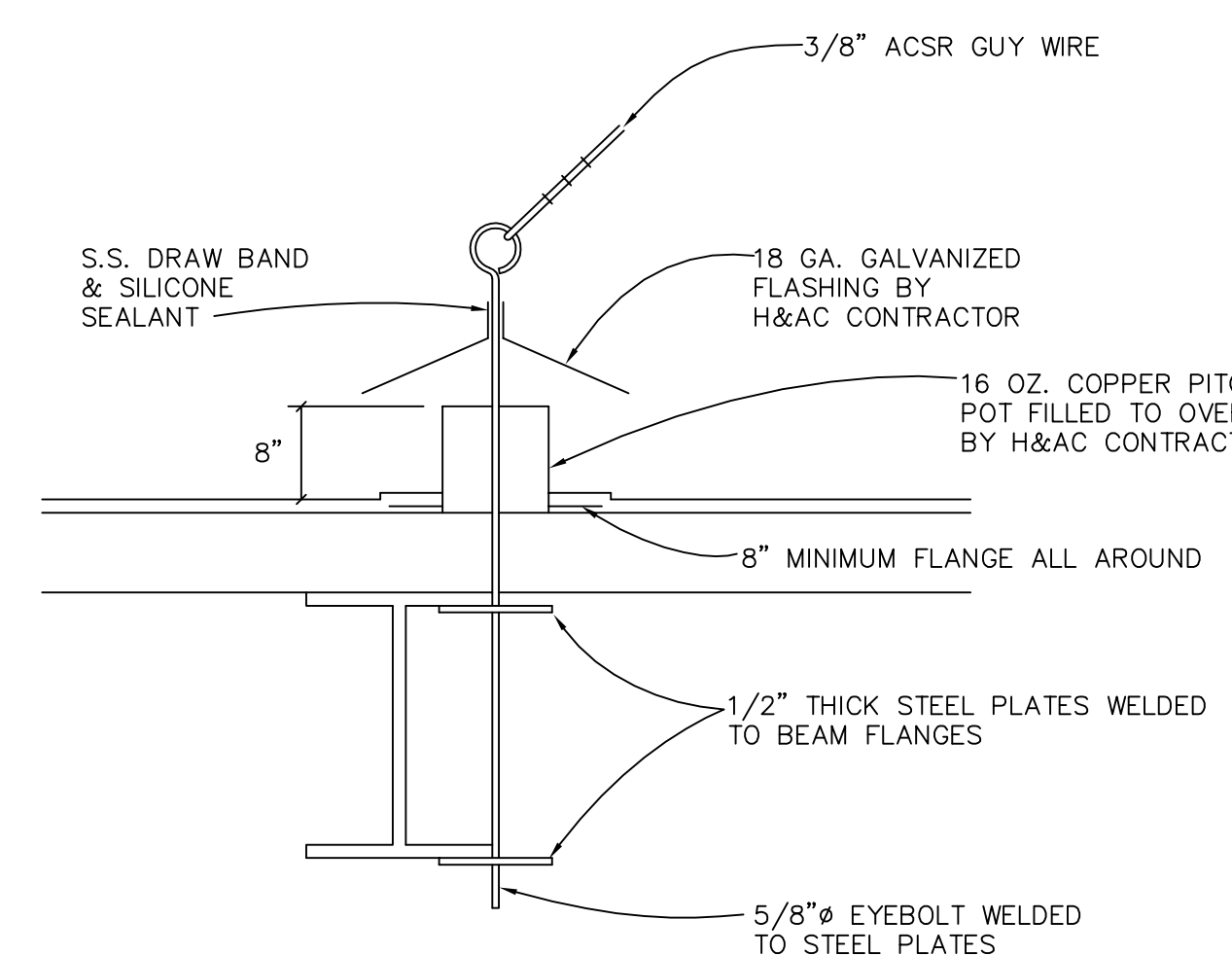
H8 05 MECHANICAL ROOM - A.H.U. #3
SECTION
SCALE: 1/4" = 1'-0"



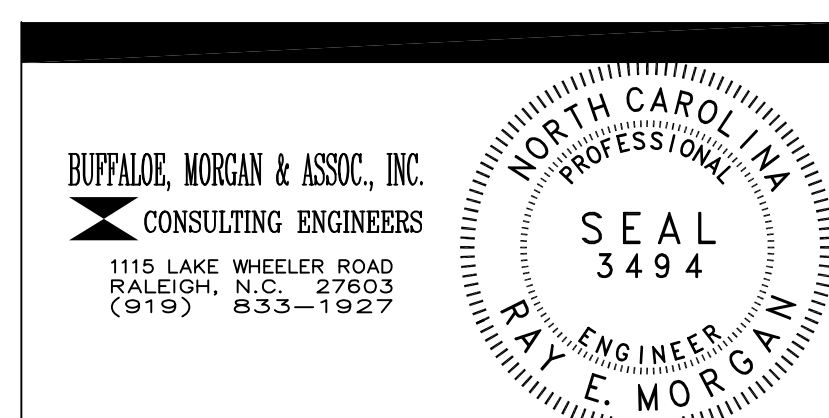
H8 06 A.H.U. #3
SECTION
SCALE: 1/4" = 1'-0"



H8 08 MIXING TANK FOR GLYCOL SYSTEM
DETAIL
NO SCALE



H8 07 GUY WIRE ROOF ANCHOR
DETAIL
NO SCALE



DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 16 MAY, 1994
PROJECT#: 9305
DESIGNED BY: .
DRAWN BY: DRD
CHECKED BY: REM
CHECKED BY: .



SEA TOWERS SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403

TEL: 910.256.6633
FAX: 910.256.9088

SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6089280301A

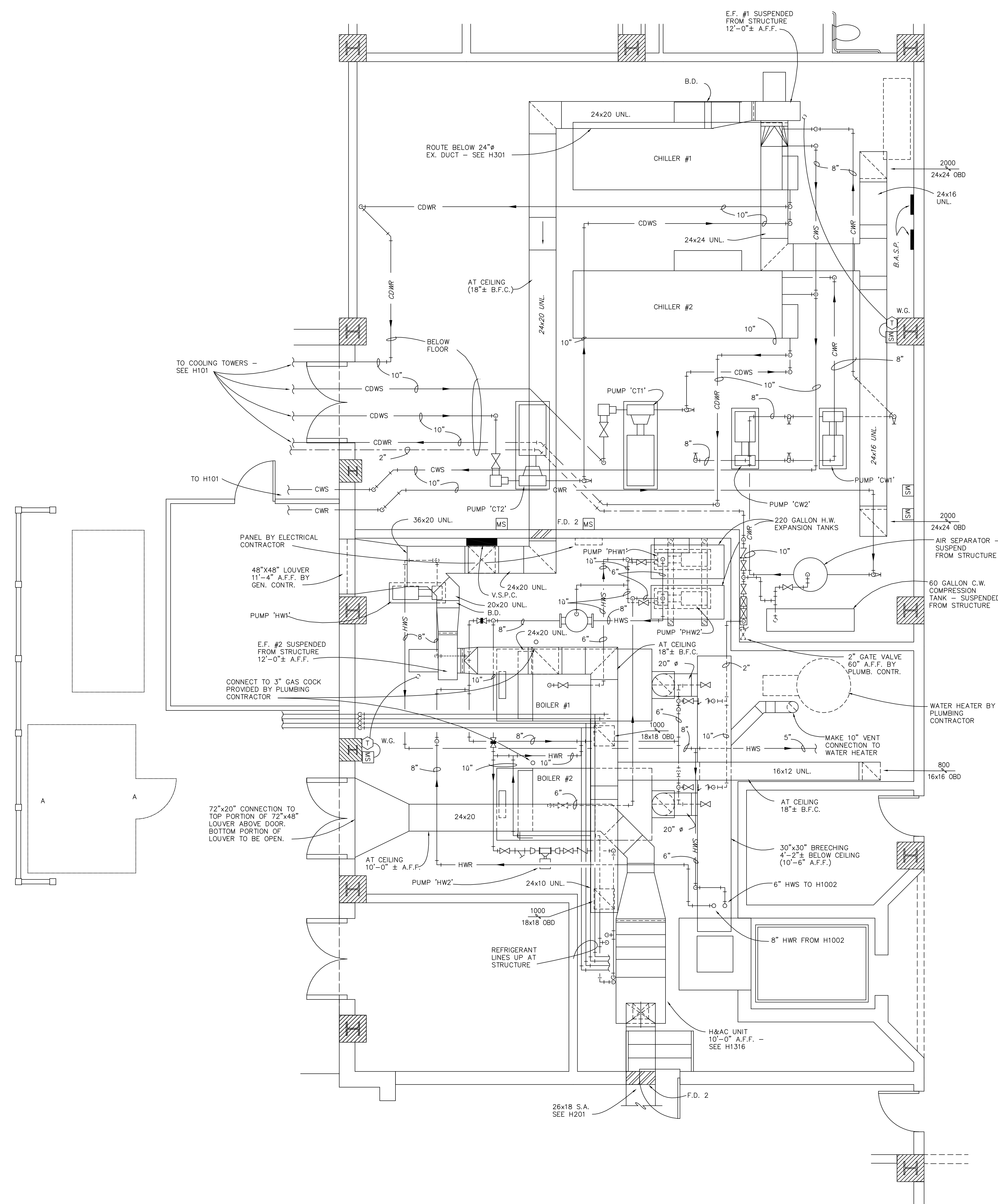
SHEET TITLE:

FIRST FLOOR EAST – POWER
DETAILS

SHEET NO.:

HSC

OF 22




H9 01	MECH. RM. - 1191 & BOILER RM. - 11
	ENLARGED PLAN
	SCALE: 1/4" = 1'-0"

DRAWING REVISIONS

NO.	DATE:	REMARKS:

DATE: 16 MAY, 1994
PROJECT#: 9305

DESIGNED BY: _____
DRAWN BY: DRD _____
CHECKED BY: _____
CHECKED BY: _____

BUFFALO, MORGAN & ASSOC., INC.
 **CONSULTING ENGINEERS**
 1115 LAKE WHEELER ROAD
 RALEIGH, N.C. 27603
 (919) 833-1927

Seal: NORTH CAROLINA PROFESSIONAL SEAL 3494 ENGINEER P. K. MORGAN

H9 02	CHILLER PIPING
	ISOMETRIC
	NO SCALE

H9 03	BOILER PIPING
	ISOMETRIC
	NO SCALE

2002



JEFFRIES AND FARIS
ASSOCIATES
ARCHITECTS + PLANNERS

SEA TOWERS SUITE 201
2002 EASTWOOD ROAD
WILMINGTON, N.C. 28403

TEL: 910.256.6633
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SCIENCE BUILDING
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
CODE 49388 ITEM 301 ID#6089280301A

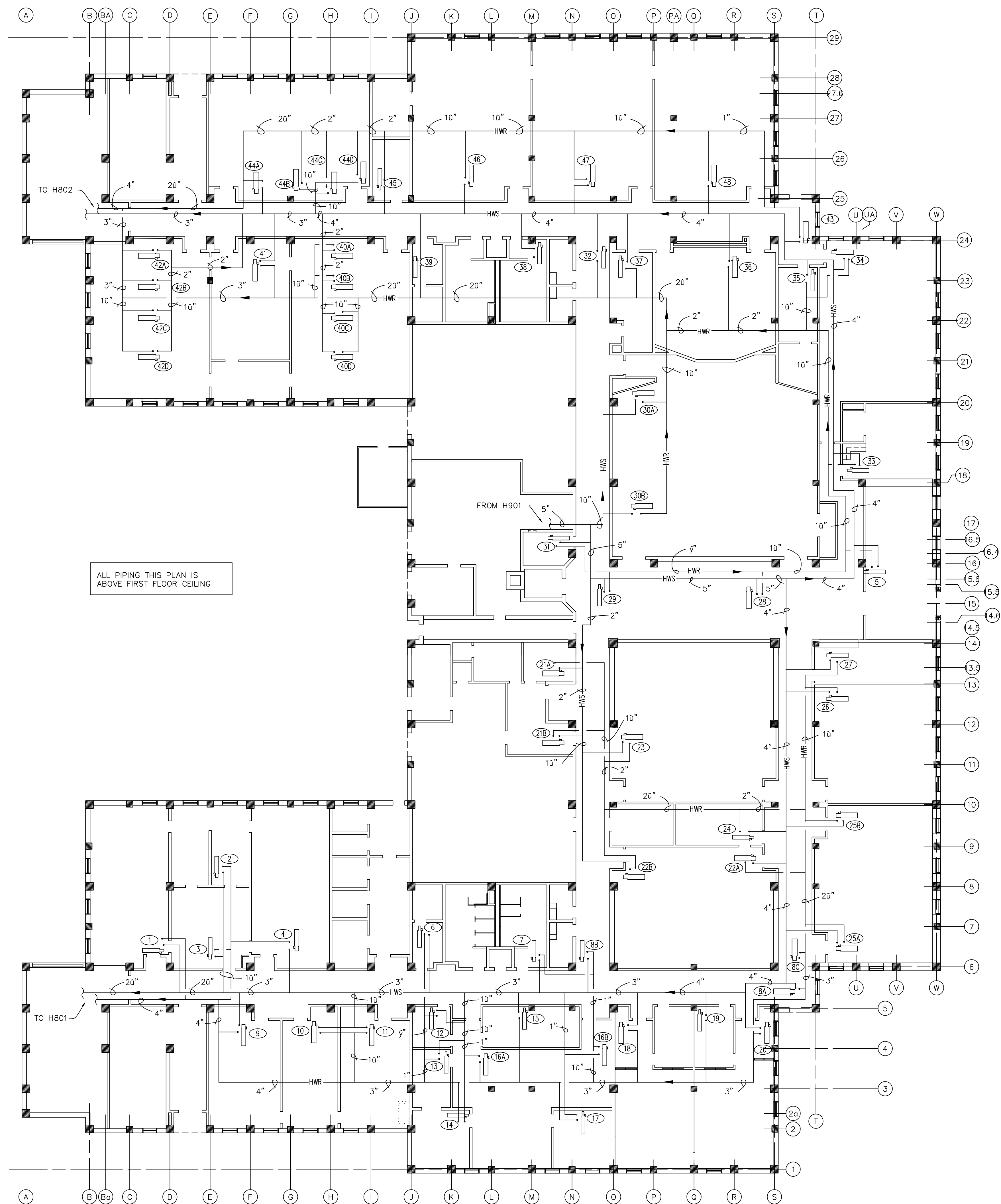
SHEET TITLE:

SCIENCE BUILDING - SITE PLAN
LEGEND, NOTES, LOAD

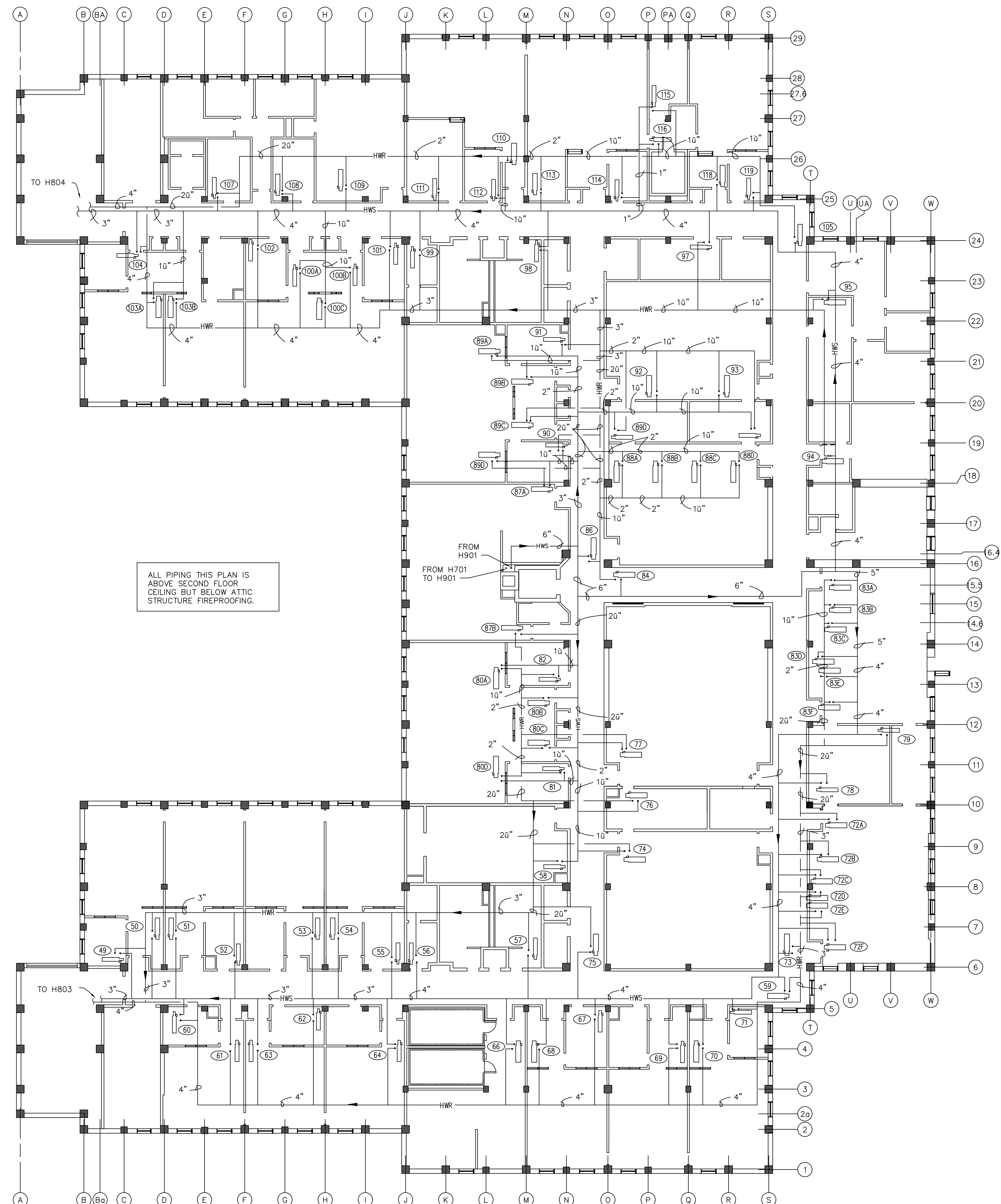
SHEET NO.:

H10

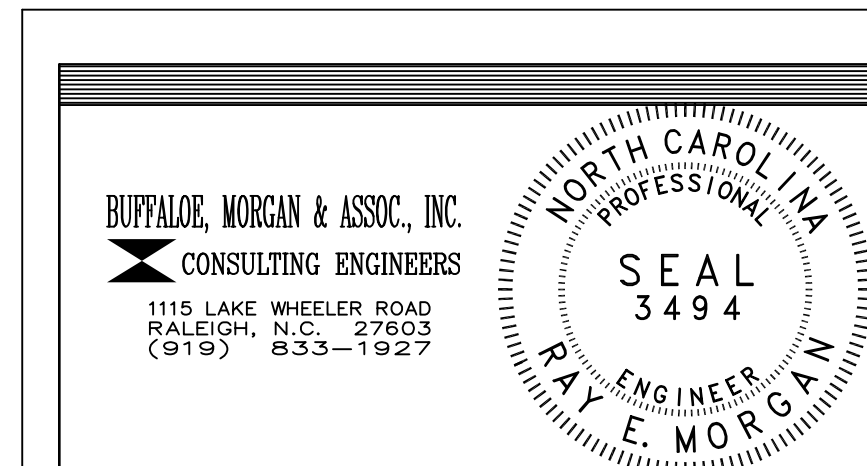
OF 13



H10
01
FIRST FLOOR
FLOOR PLAN
SCALE: 1/16" = 1'-0"



H10
02
SECOND FLOOR
FLOOR PLAN
SCALE: 1/16" = 1'-0"



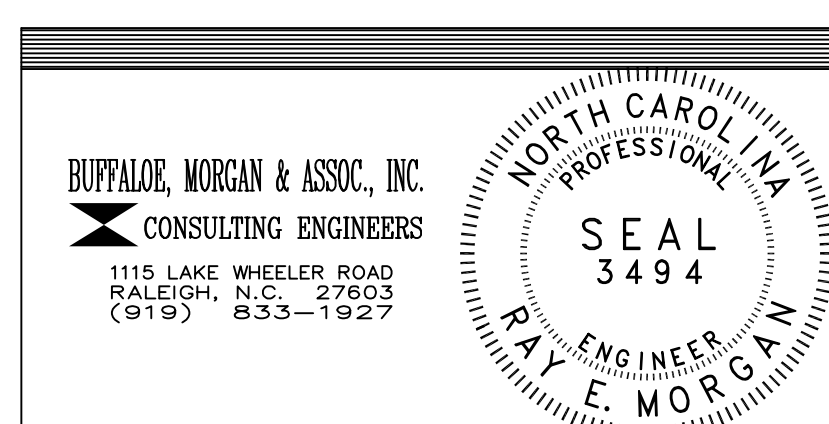
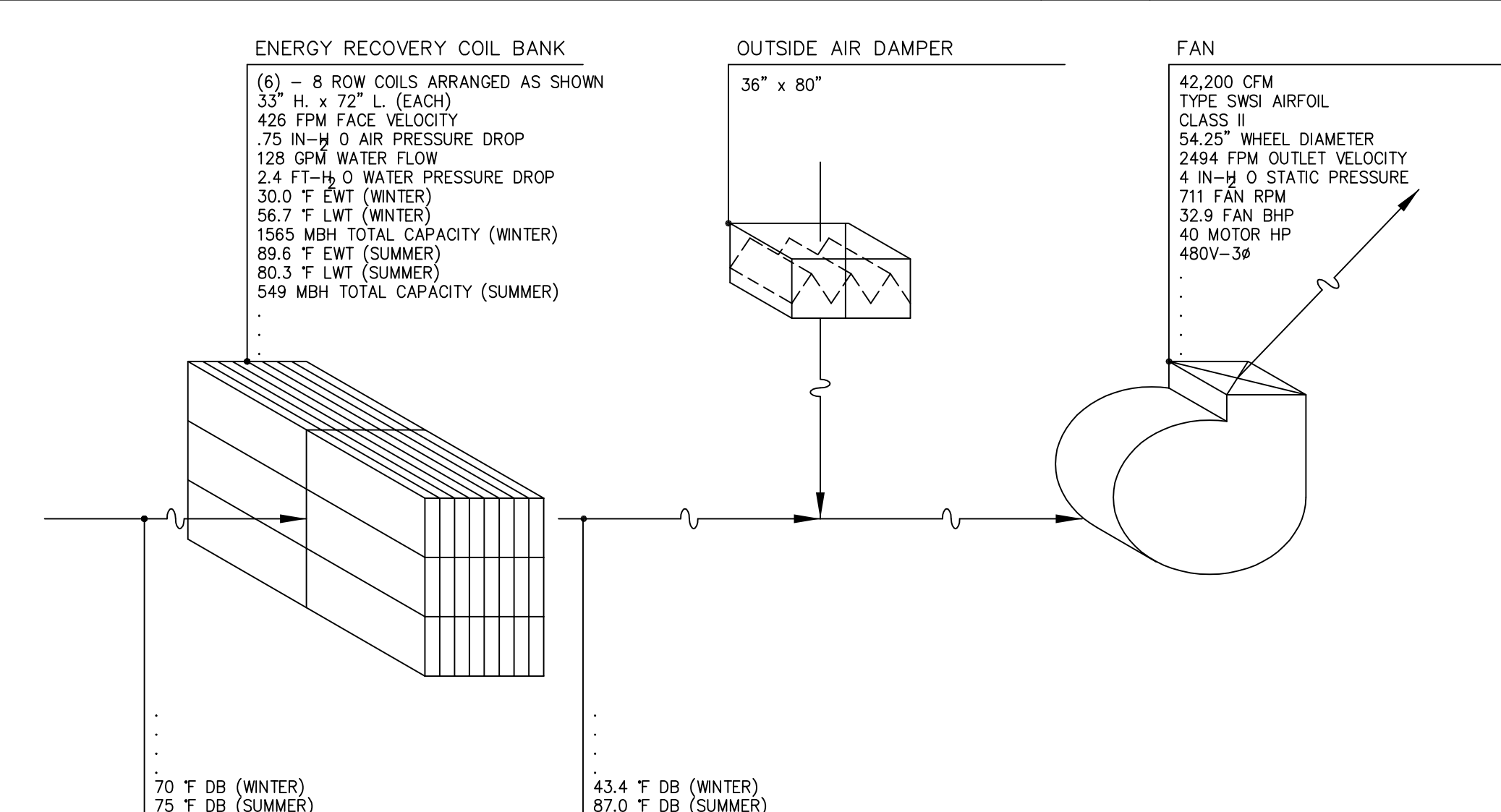
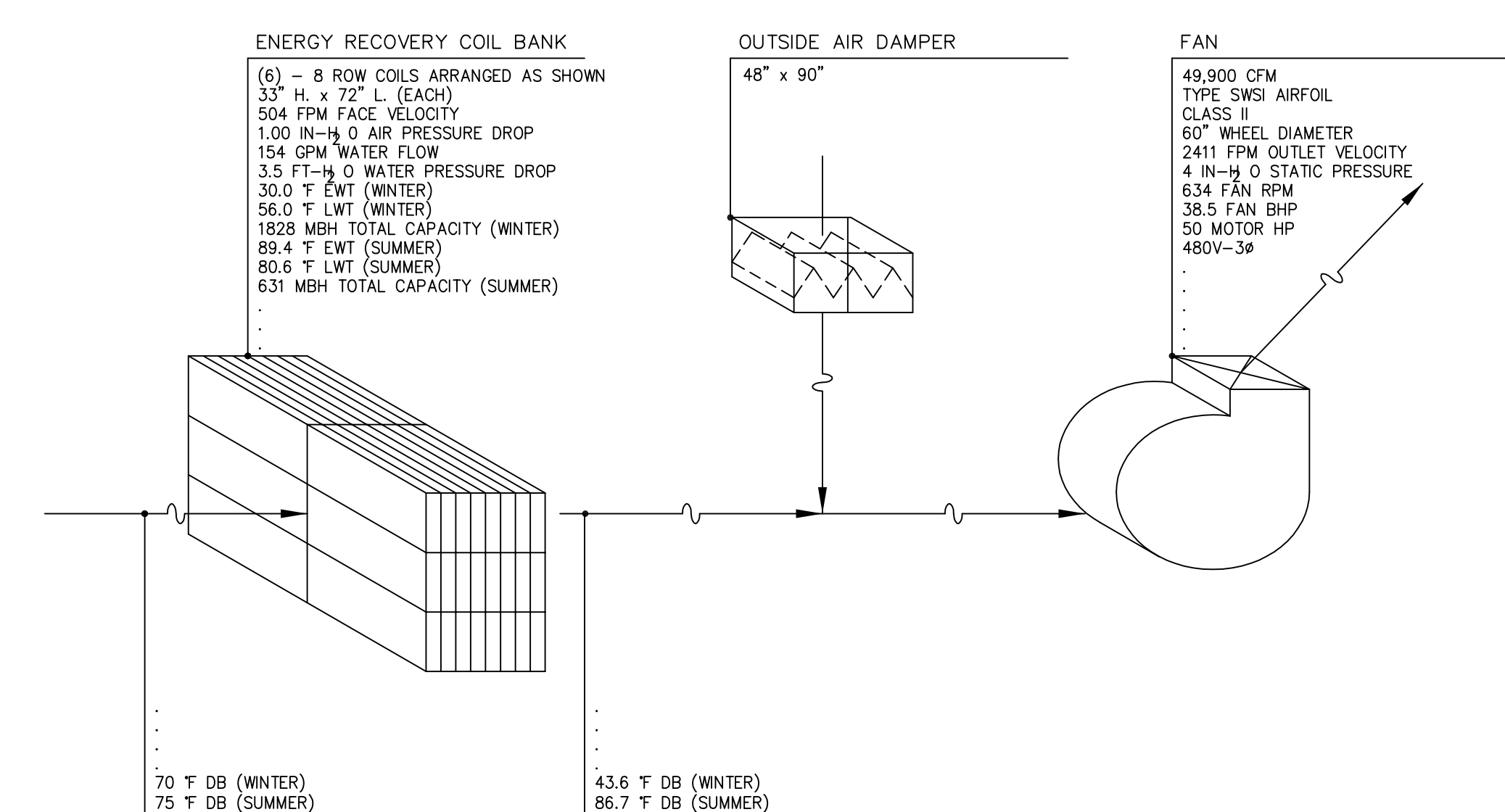
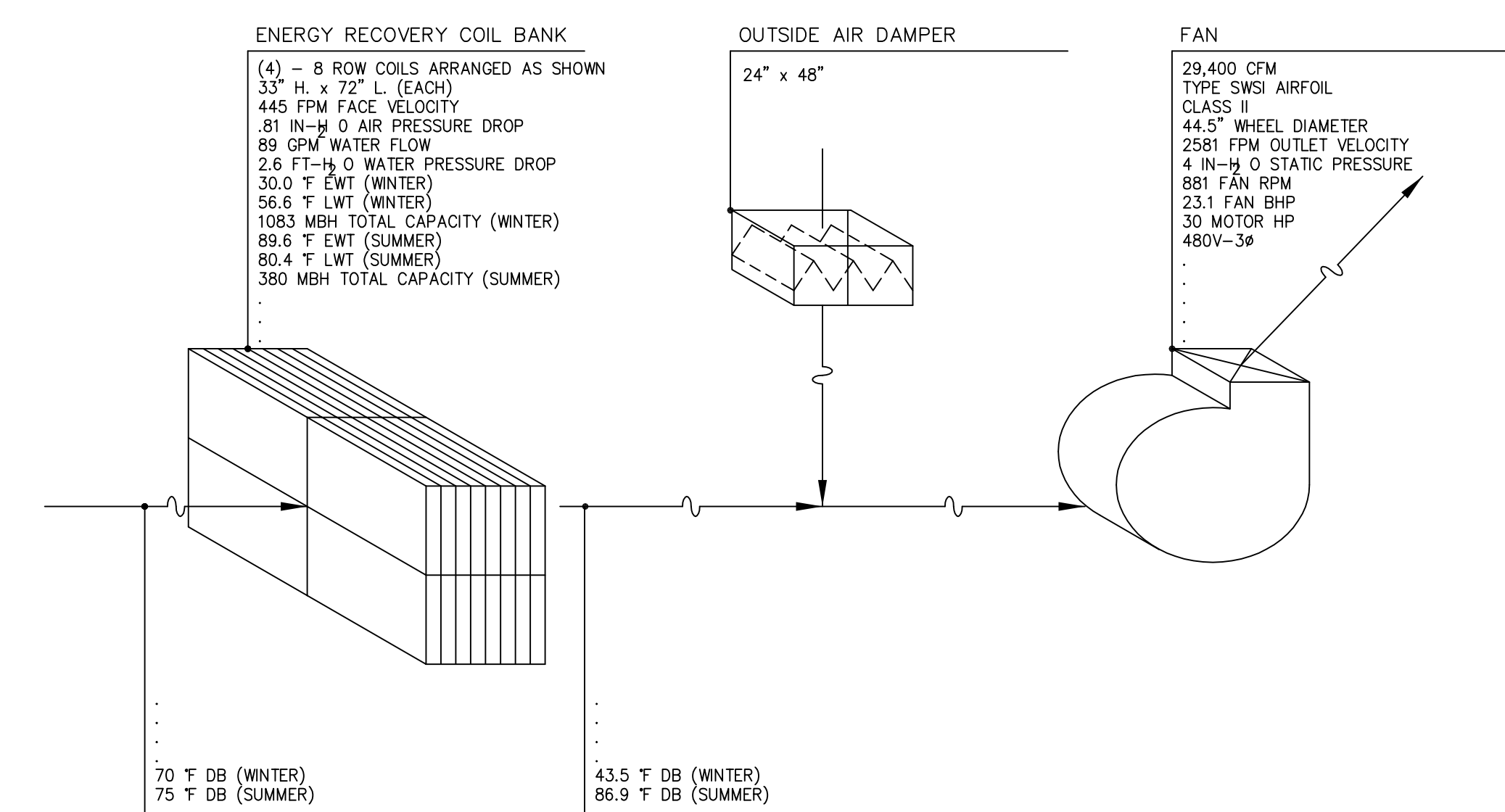
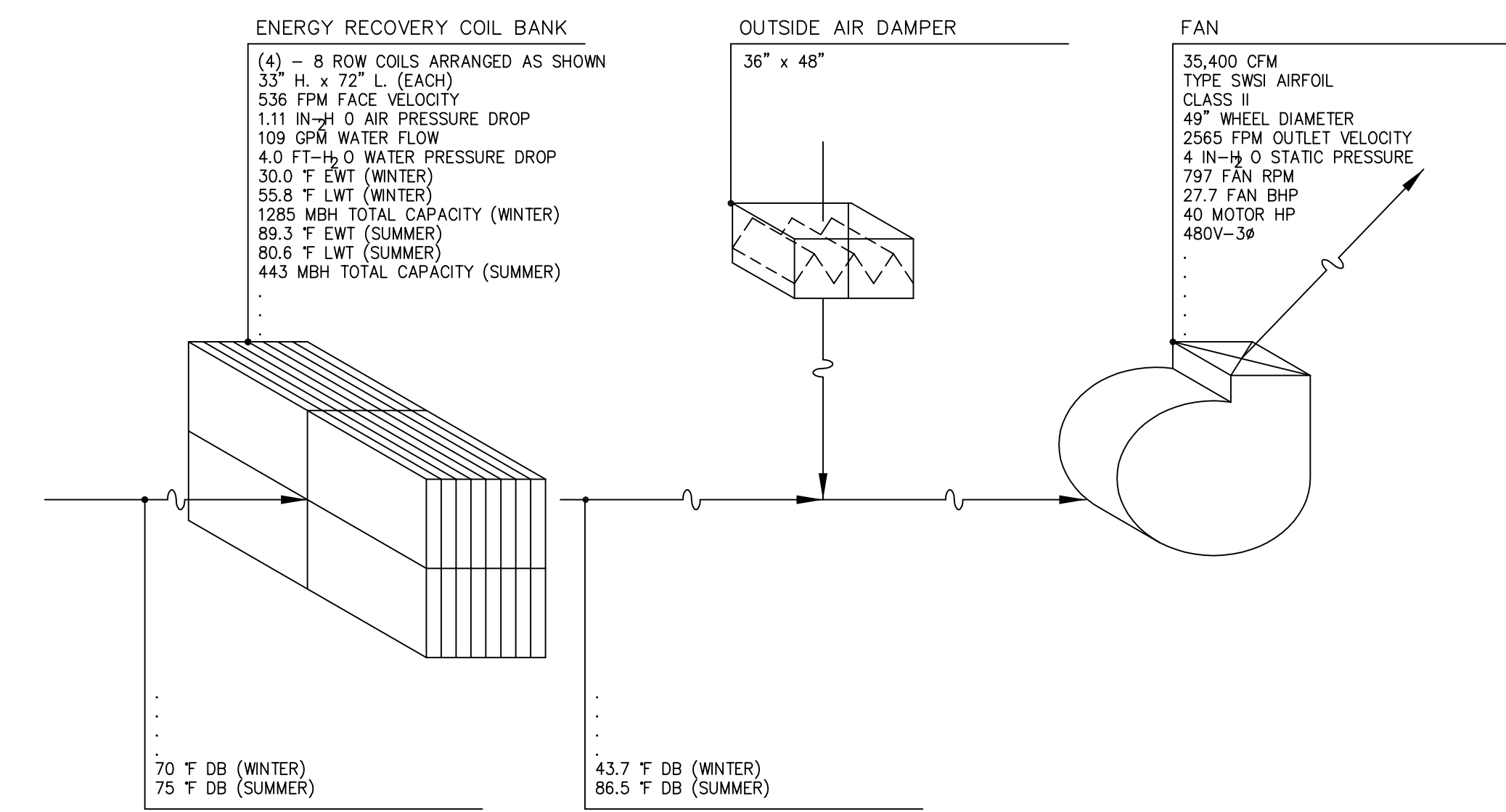
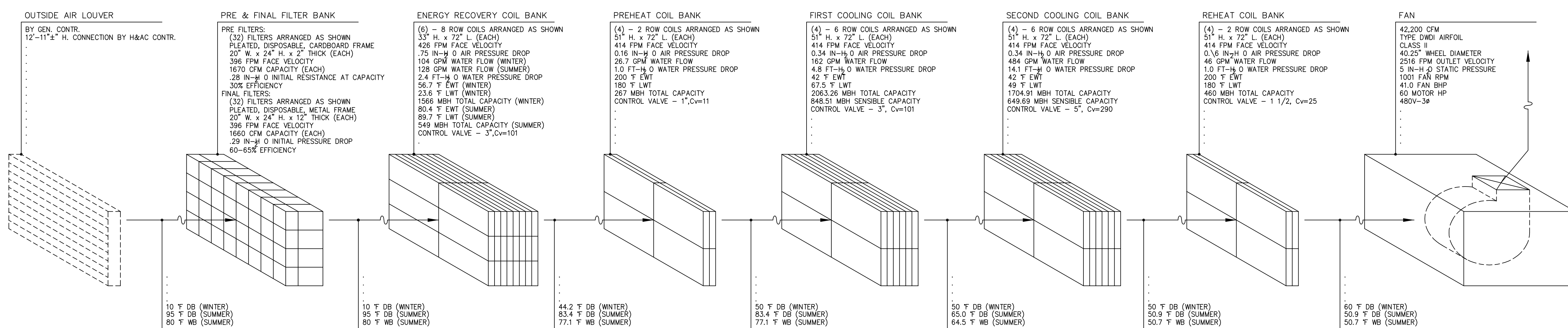
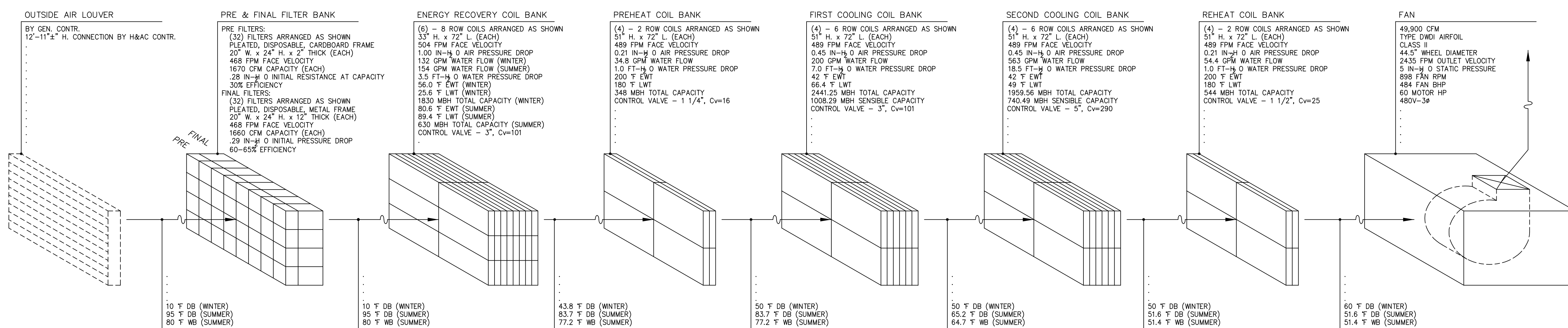
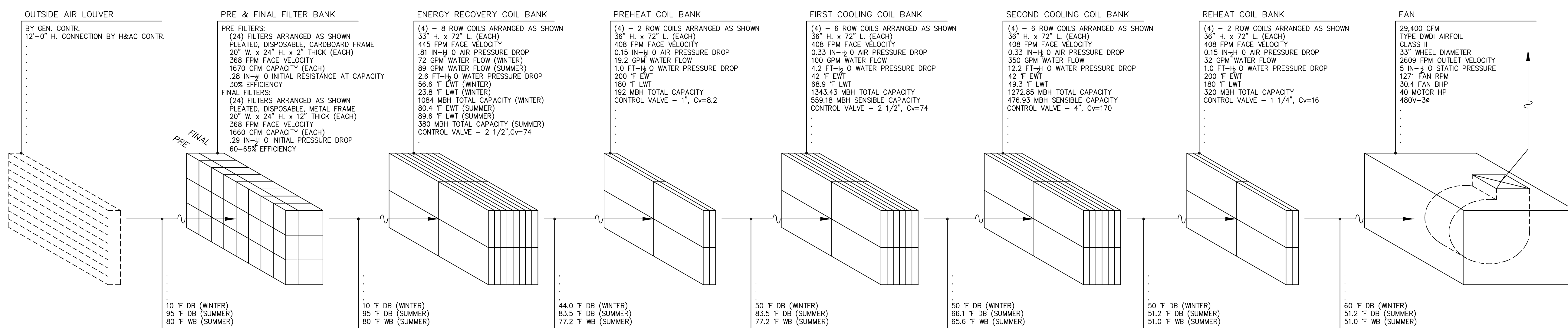
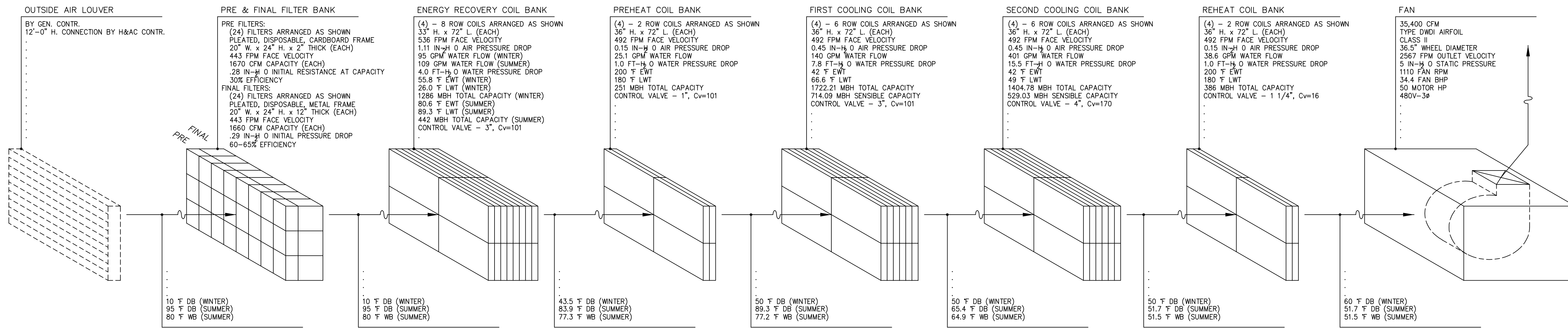
DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 16 MAY, 1994
PROJECT#: 9305
DESIGNED BY: NJC,WMS
DRAWN BY: DRD,WMS
CHECKED BY: WMP,REM
CHECKED BY:

TERMINAL SCHEDULE												
NO.	AIR VALVE		HEATING COIL (C)									
	MAX.	MIN.	(A) DISCHARGE NC	(B) RADIATED NC	(D) ESP. IN.	(E) PRESS. DIFF. IN.	CAP. MBH	EDB F	VALVE (G) SIZE	Cv	BRANCH PIPING SIZE	GPM
1	820	820	45	—	.16	.85	34.0	52"	1/2"▲	2.0	1"	3.2
2	780	780	44	—	.13	.68	32.3	52"	1/2"▲	2.0	3/4"	3.0
3	1200	1200	45	—	.13	.85	49.7	52"	1/2"	3.6	1"	4.6
4	1125	750	44	23	.16	.59	46.6	52"	1/2"	2.2	1"	4.4
5	630	630	44	—	.14	.53	26.1	52"	1/2"	1.3	3/4"	2.4
6	600	600	43	—	.12	.44	24.8	52"	1/2"	1.3	3/4"	2.3
7	620	620	44	—	.13	.53	25.7	52"	1/2"	1.3	3/4"	2.4
8A	1200	1200	44	23	.31	.59	49.7	52"	1/2"	3.6	1"	4.6
8B	600	600	43	—	.18	.44	24.8	52"	1/2"	1.3	3/4"	2.3
8C	600	600	43	—	.18	.44	24.8	52"	1/2"	1.3	3/4"	2.3
9	1125	500	44	23	.13	.59	46.6	52"	1/2"	2.2	1"	4.4
10	1125	400	44	23	.13	.59	46.6	52"	1/2"	2.2	1"	4.4
11	1125	500	44	23	.13	.59	46.6	52"	1/2"	2.2	1"	4.4
12	150	150	39	—	.11	.12	6.2	52"	1/2"	0.4	3/4"	0.6
13	180	160	39	—	.13	.21	7.4	52"	1/2"	0.4	3/4"	0.7
14	320	320	40	—	.13	.48	13.2	52"	1/2"	.	3/4"	1.2
15	350	350	40	—	.13	.48	14.5	52"	1/2"	1.3	3/4"	1.4
16A	1125	490	44	23	.15	.59	46.6	52"	1/2"	2.2	1"	4.4
16B	1125	490	44	23	.16	.59	46.6	52"	1/2"	2.2	1"	4.4
17	320	320	40	—	.13	.48	13.2	52"	1/2"	1.3	3/4"	1.2
18	1125	600	44	23	.17	.59	46.6	52"	1/2"	2.2	1"	4.4
19	440	440	44	—	.13	.73	18.2	52"	1/2"	1.3	3/4"	1.7
20	1125	600	44	23	.17	.59	46.6	52"	1/2"	2.2	1"	4.4
21A	300	300	41	21	.14	.45	12.4	52"	1/2"	0.4	3/4"	1.2
21B	1840	1840	45	—	.19	.78	76.2	52"	1/2"	3.6	10"	7.1
22A	1800	585	44	—	.15	.64	74.6	52"	1/2"	3.6	10"	7.0
22B	1800	585	44	—	.15	.64	74.6	52"	1/2"	3.6	10"	7.0
23	2700	2700	45	21	.23	.42	111.8	52"	3/4"	6.2	10"	10.5
24	650	650	44	—	.13	.53	26.9	52"	1/2"	1.3	3/4"	2.5
25A	1730	585	44	—	.13	.78	71.7	52"	1/2"	3.6	10"	6.7
25B	1730	585	44	—	.13	.78	71.7	52"	1/2"	3.6	10"	6.7
26	1360	1360	45	23	.15	.78	56.3	52"	1/2"	3.6	1"	5.3
27	1000	1000	43	—	.14	.42	41.4	52"	1/2"	2.2	1"	3.9
28	2000	2000	41	—	.19	.78	82.8	52"	3/4"	5.0	10"	7.7
29	190	190	39	—	.12	.21	7.9	52"	1/2"	0.4	3/4"	0.7
30A	1500	1500	43	—	.15	.52	62.1	52"	1/2"	3.6	10"	5.8
30B	1500	1500	43	—	.15	.52	62.1	52"	1/2"	3.6	10"	5.8
31	500	500	42	—	.12	.35	20.7	52"	1/2"	1.3	3/4"	1.9
32	600	600	43	—	.12	.44	24.8	52"	1/2"	1.3	3/4"	2.3
33	660	660	44	—	.13	.53	27.3	52"	1/2"	1.3	3/4"	2.6
34	1525	1150	43	—	.17	.52	63.2	52"	1/2"	3.6	10"	5.9
35	500	500	42	—	.13	.35	20.7	52"	1/2"	1.3	3/4"	1.9
36	1600	1600	43	—	.15	.52	66.3	52"	1/2"	3.6	10"	6.2
37	700	700	44	—	.13	.53	29.0	52"	1/2"	2.2	3/4"	2.7
38	750	750	44	—	.15	.53	31.1	52"	1/2"	2.2	3/4"	2.9
39	600	600	43	—	.13	.44	24.8	52"	1/2"	1.3	3/4"	2.3
40A	1645	288	44	—	.14	.64	68.1	52"	1/2"	3.6	10"	6.4
40B	1645	287	44	—	.14	.64	68.1	52"	1/2"	3.6	10"	6.4
40C	1645	288	44	—	.14	.64	68.1	52"	1/2"	3.6	10"	6.4
40D	1645	287	44	—	.14	.64	68.1	52"	1/2"	3.6	10"	6.4
41	740	740	44	—	.15	.68	30.6	52"	1/2"	2.2	3/4"	2.9
42A	1645	275	44	—	.14	.64	68.1	52"	1/2"	3.6	10"	6.4
42B	1645	275	44	—	.14	.64	68.1	52"	1/2"	3.6	10"	6.4
42C	1645	275	44	—	.14	.64	68.1	52"	1/2"▲	4.0	10"	6.4
42D	1645	275	44	—	.14	.64	68.1	52"	1/2"▲	4.0	10"	6.4
43	1200	1200	44	23	.31	.59	49.7	52"	1/2"	3.6	1"	4.6
44A	1645	285	44	—	.13	.64	68.1	52"	1/2"	3.6	10"	6.4
44B	1645	285	44	—	.13	.64	68.1	52"	1/2"	3.6	10"	6.4
44C	1645	285	44	—	.13	.64	68.1	52"	1/2"	3.6	10"	6.4
44D	1645	285	44	—	.13	.64	68.1	52"	1/2"	3.6	10"	6.4
45	360	360	42	—	.13	.48	14.9	52"	1/2"	1.3	3/4"	1.4
46	1135	1135	44	23	.15	.59	47.0	52"	1/2"	3.6	1"	4.4
47	1135	1135	44	23	.15	.59	47.0	52"	1/2"	3.6	1"	4.4
48	1135	1135	44	23	.15	.59	47.0	52"	1/2"	3.6	1"	4.4
49	150	150	39	—	.12	.12	6.2	52"	1/2"▲	2.0	3/4"	0.6
50	1125	630	44	23	.16	.59	46.6	52"	1/2"▲	4.0	1"	4.4
51	1125	630	44	23	.16	.59	46.6	52"	1/2"	3.6	1"	4.4
52	415	415	42	—	.13	.48	17.2	52"	1/2"	1.3	3/4"	1.6
53	1125	630	44	23	.16	.59	46.6	52"	1/2"	3.6	1"	4.4
54	1125	630	44	23	.16	.59	46.6	52"	1/2"	3.6	1"	4.4
55	200	200	39	—	.13	.21	8.3	52"	1/2"	0.4	3/4"	0.8
56	600	6000	43	—	.13	.44	24.8	52"	1/2"	1.3	3/4"	2.3
57	575	575	44	—	.14	.53	23.8	52"	1/2"	1.3	3/4"	2.2
58	1145	1145	44	23	.18	.59	47.4	52"	1/2"	3.6	1"	4.4
59	1200	1200	44	—	.31	.59	49.7	52"	1/2"	3.6	1"	4.6
60	190	190	39	—	.13	.21	7.9	52"	1/2"	0.4	3/4"	0.7
61	900	450	45	—	.15	.85	37.3	52"	1/2"	2.2	1"	3.5
62	410	410	44	—	.13	.73	17.0	52"	1/2"	1.3	3/4"	1.6
63	900	450	45	—	.15	.85	37.3	52"	1/2"	2.2	1"	3.5
64	900	450	45	—	.15	.85	37.3	52"	1/2"	2.2	1"	3.5
66	1500	1500	43	—	.18	.64	62.1	52"	1/2"	3.6	1"	5.8
67	415	415	42	—	.13	.48	17.2	52"	1/2"	1.3	3/4"	1.6
68	1845	600	45	—	.16	.78	76.4	52"	3/4"	5.0	10"	7.1
69	720	600	44	—	.16	.68	29.8	52"	1/2"	2.2	3/4"	2.8
70	2250	675	49	—	.16	1.00	93.2	52"	3/4"	5.0	10"	8.7
71	150	150	39	—	.12	.12	6.2	52"	1/2"	0.40	3/4"	0.6

- (A) BASED ON SCHEDULED AIRFLOW, 0.50" PRESSURE DIFFERENCE FROM TERMINAL INLET TO DISCHARGE, 10dB ROOM ATTENUATION, AND 2 ROW COIL
- (B) SOUND EMANATING FROM CASING, BASED ON SCHEDULED AIRFLOW, 0.50" PRESSURE DIFFERENCE FROM TERMINAL INLET TO DISCHARGE, 10dB ROOM ATTENUATION, 10dB ROOM ABSORPTION, CEILING PELUM ABSORPTION AND TRANSMISSION LOSS OF 10dB, OCTAVE BANDS 2-4, AND 15dB, OCTAVE BANDS 5-7, AND 2 ROW COIL
- (C) DASH (—) INDICATES NC LEVEL LESS THAN 20
- (D) STATIC PRESSURE LOSSES DOWNSTREAM OF TERMINAL AT SCHEDULED AIRFLOW
- (E) MINIMUM STATIC PRESSURE DIFFERENCE FROM INLET TO DISCHARGE WITH 2 ROW COIL AND ATTENUATOR, FOR THE SCHEDULED AIRFLOW
- (F) BASED ON 200° EWT
- (G) 2 WAY PROPORTIONING UNLESS OTHERWISE INDICATED
- ▲ DESIGNATES 3 WAY PROPORTIONING CONTROL VALVE

TERMINAL SCHEDULE												
NO.	AIR VALVE		HEATING COIL (E)								BRANCH PIPING SIZE	GPM
	CFM	DISCHARGE NC	RADIATED NC	ESP. IN.	PRESS. DIFF. IN.	CAP. MBH	EDB T	VALVE (G)				
								SIZE	Cv			
72A	2135	640	49	—	.14	1.00	88.4	52"	3/4"	5.0	10"	8.3
72B	2135	640	49	—	.14	1.00	88.4	52"	3/4"	5.0	10"	8.3
72C	2135	640	49	—	.14	1.00	88.4	52"	3/4"	5.0	10"	8.3
72D	2135	640	49	—	.14	1.00	88.4	52"	3/4"	5.0	10"	8.3
72E	2135	640	49	—	.14	1.00	88.4	52"	3/4"	5.0	10"	8.3
72F	2135	640	49	—	.14	1.00	88.4	52"	3/4"	5.0	10"	8.3
73	800	600	43	—	.18	.44	33.1	52"	1/2"	2.2	3/4"	3.1
74	2020	1010	44	—	.21	.59	41.8	52"	1/2"	2.2	1"	3.9
—	—	—	—	—	—	—	—	—	—	—	—	—
75	600	600	43	—	.15	.44	24.8	52"	1/2"	1.3	3/4"	2.3
76	1440	470	43	—	.13	.52	59.6	52"	1/2"	3.6	1"	5.6
77	3000	3000	46	—	.24	.22	124.2	52"	3/4"	6.2	10"	11.6
—	—	—	—	—	—	—	—	—	—	—	—	—
78	720	720	44	—	.13	.68	29.8	52"	1/2"	2.2	3/4"	2.8
79	360	360	42	—	.13	.48	14.9	52"	1/2"	1.3	3/4"	1.4
80A	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
80B	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
80C	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
80D	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
81	230	230	41	21	.12	.45	9.5	52"	1/2"	0.4	3/4"	0.9
82	230	230	41	21	.12	.45	9.5	52"	1/2"	0.4	3/4"	0.9
83A	2130	640	49	—	.13	1.00	88.2	52"	3/4"	5.0	10"	8.3
83B	2130	640	49	—	.13	1.00	88.2	52"	3/4"	5.0	10"	8.3
83C	2130	640	49	—	.13	1.00	88.2	52"	3/4"	5.0	10"	8.3
83D	2130	640	49	—	.13	1.00	88.2	52"	3/4"	5.0	10"	8.3
83E	2130	640	49	—	.13	1.00	88.2	52"	3/4"	5.0	10"	8.3
83F	2130	640	49	—	.13	1.00	88.2	52"	3/4"	5.0	10"	8.3
84	1000	1000	43	—	.17	.44	41.4	52"	1/2"	2.2	1"	3.9
86	600	600	43	—	.16	.42	24.9	52"	1/2"	2.2	3/4"	2.3
87A	1075	1075	44	23	.17	.59	44.5	52"	1/2"	2.2	1"	4.2
87B	1075	1075	44	23	.18	.59	44.5	52"	1/2"	2.2	1"	4.2
88A	1650	325	44	—	.13	.64	68.3	52"	1/2"	3.6	10"	6.4
88B	1650	325	44	—	.13	.64	68.3	52"	1/2"	3.6	10"	6.4
88C	1650	325	44	—	.13	.64	68.3	52"	1/2"	3.6	10"	6.4
88D	1650	325	44	—	.13	.64	68.3	52"	1/2"	3.6	10"	6.4
89A	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
89B	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
89C	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
89D	1470	400	43	—	.14	.52	60.9	52"	1/2"	3.6	1"	5.7
90	220	220	41	—	.12	.45	9.1	52"	1/2"	0.4	3/4"	0.9
91	220	220	41	—	.12	.45	9.1	52"	1/2"	0.4	3/4"	0.9
92	270	270	41	—	.12	.45	11.2	52"	1/2"	0.4	3/4"	1.0
93	600	460	43	—	.12	.44	24.8	52"	1/2"	1.3	3/4"	2.3
94	2000	570	45	—	.14	.78	82.8	52"	3/4"	5.0	10"	7.7
—	—	—	—	—	—	—	—	—	—	—	—	—
95	1940	1460	45	—	.18	.78	80.4	52"	3/4"	5.0	10"	7.5
96A	2000	565	45	—	.14	.78	82.8	52"	3/4"	5.0	10"	7.7
96B	2000	565	45	—	.14	.78	82.8	52"	3/4"	5.0	10"	7.7
97	800	800	44	—	.15	.68	33.1	52"	1/2"	2.2	1"	3.1
98	600	600	43	—	.13	.53	24.9	52"	1/2"	1.3	3/4"	2.3
99	600	600	43	—	.13	.44	24.8	52"	1/2"	1.3	3/4"	2.3
100A	1245	410	45	23	.15	.78	51.6	52"	1/2"	3.6	1"	4.8
100B	1245	410	45	23	.15	.78	51.6	52"	1/2"	3.6	1"	4.8
100C	1245	410	45	23	.14	.78	51.6	52"	1/2"	3.6	1"	4.8
101	210	210	41	21	.12	.45	8.7	52"	1/2"	0.4	3/4"	0.8
102	420	420	44	—	.13	.73	17.4	52"	1/2"	1.3	3/4"	1.6
103A	1780	600	44	—	.15	.64	73.7	52"	3/4"	6.8	10"	6.9
103B	1780	600	44	—	.15	.64	73.7	52"	3/4"	6.8	10"	6.9
104	175	175	39	—	.12	.21	7.2	52"	1/2"	0.4	3/4"	0.7
105	1200	1200	41	23	.14	.59	49.7	52"	1/2"	3.6	1"	4.6
107	190	190	39	—	.12	.21	7.9	52"	1/2"	0.4	3/4"	0.7
108	860	860	45	—	.17	.68	35.6	52"	1/2"	2.2	1"	3.3
109	630	630	44	—	.15	.53	26.0	52"	1/2"	2.2	3/4"	2.4
110	1845	700	45	—	.17	.78	76.4	52"	3/4"	5.0	10"	7.1
111	330	330	43	21	.12	.61	13.7	52"	1/2"	1.3	3/4"	1.3
112	175	175	39	—	.12	.21	30.6	52"	1/2"	2.2	3/4"	2.9
113	1170	1010	44	23	.19	.59	48.5	52"	1/2"	3.6	1"	4.5
114	175	175	39	—	.12	.21	7.2	52"	1/2"	0.4	3/4"	0.7
115	675	200	43	—	.12	.44	27.9	52"	1/2"	2.2	3/4"	2.6
116	260	260	41	—	.11	.45	10.8	52"	1/2"	0.4	3/4"	1.0
118	1440	600	43	—	.15	.52	59.6	52"	1/2"	3.6	1"	5.6
119	175	175	39	—	.12	.21	7.2	52"	1/2"	0.4	3/4"	0.6



DRAWING REVISIONS:

NO.	DATE	REMARKS

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DRAWN BY: NJC
CHECKED BY: WMP
CHECKED BY: REM

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OF 13

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