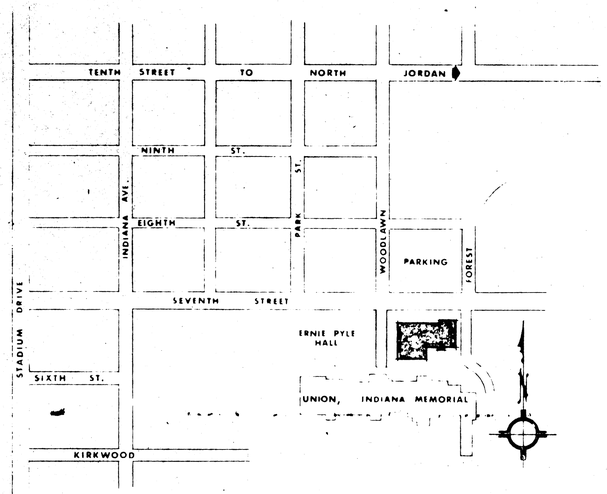
THE ERNIE PYLE HALL REMODELING

PHASE II

SCHOOL OF JOURNALISM
INDIANA UNIVERSITY
BLOOMINGTON, INDIANA

PROJECT #IUB 748-672



AREA MAP
NOT TO SCALE

ARCHITECT: ED GIBSON AND ASSOCIATES, INCORPORATED

ENGINEER: AMMERMAN, DAVIS AND STOUT, INCORPORATED

CERTIFIED AS-BUILT E. L. Gibson

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075

EDWIN A. GIBSON - INDIANA REGISTRATION NO. 720

71
1-6-77

AIR HANDLING UNIT SCHEDULE

NO.	AREA SERVED	TYPE	TRANE MODEL NUMBER	CFM STANDARD AIR	MAXIMUM FAN OUTLET VELOCITY F.P.M.	MINIMUM TOTAL STATIC PRESSURE WATER COLUMN	MINIMUM FAN MOTOR H.P.	MINIMUM PERCENT OF OUTDOOR AIR	SEE NOTE
4.	2ND FL. WEST	VERT. A.C.	21 MP	9200	1600	3.0	10	25	1,2,3,4
5.	AUDITORIUM	VERT. A.C.	10 MP	4600	1640	3.0	5	25	1,2,3,4.

SCHEDULE NOTES:

1. ALL EQUIPMENT SHALL BE SELECTED IN STRICT ACCORDANCE WITH THE MAXIMUM AND MINIMUM QUANTITES SHOWN.
2. UNIT SHALL HAVE DRAW-THRU ARRANGEMENT.
3. MOTOR DATA : 460 V., 3 ϕ.
4. PROVIDE OUTLET VOLUME CONTROL.

AIR HANDLING UNIT COOLING COIL SCHEDULE

NO.	CFM STANDARD AIR	TOTAL LOAD BTU	ENTERING AIR DRY BULB °F	ENTERING AIR WET BULB °F	LEAVING AIR DRY BULB °F	LEAVING AIR WET BULB °F	WATER MAXIMUM GPM	WATER MAXIMUM PRESSURE DROP IN FEET	MAXIMUM FACE VELOCITY FPM	MINIMUM NUMBER OF ROWS	MINIMUM FINS PER INCH	SEE NOTE
4	9200	373,000	80	66	54	53	75.0	12.0	500	6	15	1,2
5	4600	186,000	80	66	54	53	37.5	12.0	500	6	16	1,2

SCHEDULE NOTES:

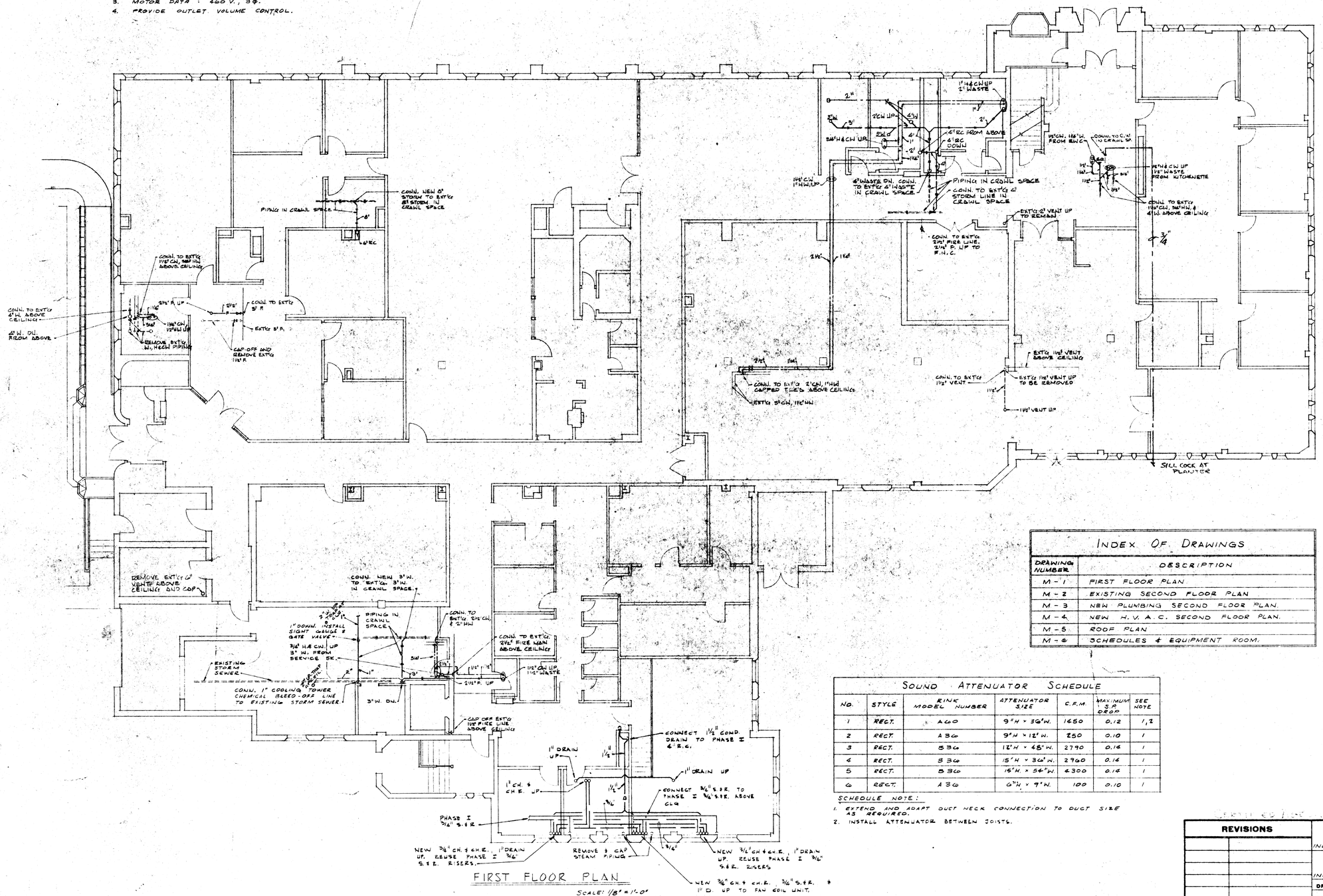
1. CAPACITIES ARE BASED ON 42°F ENTERING WATER.
2. ALL EQUIPMENT SHALL BE SELECTED IN STRICT ACCORDANCE WITH THE MAXIMUM AND MINIMUM QUANTITIES SHOWN.

AIR HANDLING UNIT HEATING COIL SCHEDULE

NO.	CFM STANDARD AIR	TOTAL LOAD BTU	ENTERING AIR DRY BULB °F	LEAVING AIR DRY BULB °F	WATER MAXIMUM G.P.M.	WATER MAXIMUM PRESSURE DROP (FT)	MAXIMUM FACE VELOCITY F.P.M.	MINIMUM FINS PER INCH	MINIMUM NUMBER OF ROWS	SEE NOTE
4.	9200	201,000	50	70	10.0	3.0	500	15	2	1,2
5.	4600	276,000	50	105	14.0	3.0	500.	15	2	1,2

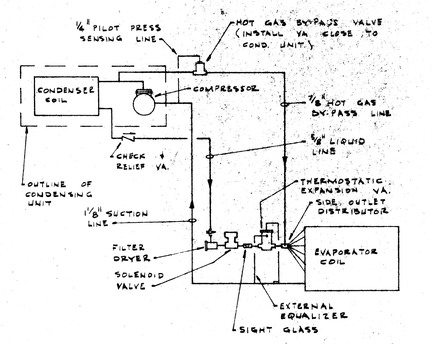
SCHEDULE NOTES:

1. CAPACITIES ARE BASED ON -10°F OUTDOOR AIR, 70°F ROOM AIR & 210°F ENTERING WATER.
2. ALL EQUIPMENT SHALL BE SELECTED IN STRICT ACCORDANCE WITH THE MAXIMUM & MINIMUM QUANTITIES SHOWN.



FIRST FLOOR PLAN

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



DETAIL OF HOT GAS BY-PASS TO EVAPORATOR INLET

NO SCALE

INDEX OF DRAWINGS

DRAWING NUMBER	DESCRIPTION
M-1	FIRST FLOOR PLAN
M-2	EXISTING SECOND FLOOR PLAN
M-3	NEW PLUMBING SECOND FLOOR PLAN.
M-4	NEW H.V.A.C. SECOND FLOOR PLAN.
M-5	ROOF PLAN
M-6	SCHEDULES & EQUIPMENT ROOM.

SOUND ATTENUATOR SCHEDULE

NO.	STYLE	RINK MODEL NUMBER	ATTENUATOR SIZE	C.F.M.	MAXIMUM S.P. DROP	SEE NOTE
1	RECT.	A 60	9"H × 36"W.	1650	0.12	1,2
2	RECT.	A 36	9"H × 12"W.	750	0.10	1
3	RECT.	B 36	12"H × 48"W.	2790	0.16	1
4	RECT.	B 36	15"H × 36"W.	2960	0.16	1
5	RECT.	B 36	15"H × 54"W.	4300	0.16	1
6	RECT.	A 36	6"H × 9"W.	100	0.10	1

SCHEDULE NOTE:

1. EXTEND AND ADAPT DUCT NECK CONNECTION TO DUCT SIZE AS REQUIRED.
2. INSTALL ATTENUATOR BETWEEN JOISTS.

REVISIONS	

PHASE II REMODELING OF ERNIE PYLE HALL

INDIANA UNIVERSITY — BLOOMINGTON, INDIANA

ED GIBSON & ASSOCIATES ARCHITECTS

INDIANAPOLIS — INDIANA

AMMERMAN, DAVIS & STOUT INCORPORATED ENGINEERS INDIANAPOLIS, IND.

DR.	RK
TR.	DKB
CK.	WSE
SCALE	AS NOTED
DATE	7-11-73
CERTIFIED BY	Wayne L. Ellerton P.E.
SHEET NO.	1
OF 6 SHEETS	
DRAWING NO.	M-1
PROJECT NO.	7411
FILE	

BRUNING 44-131 21120

#81 4-12-77

CIRCULATING PUMP SCHEDULE

NO.	SYSTEM SERVED	BELL & GOSSETT MODEL NUMBER	SIZE OR MODEL	G.P.M.	FEET HEAD	H.P.	SEE NOTE
8.	A.H.U. #6 COIL	SERIES 60	1¼" AA	10.0	20	¼	1
9.	A.H.U. #5 COIL	SERIES 60	1¼" AA	14.0	20	¼	1

SCHEDULE NOTES:

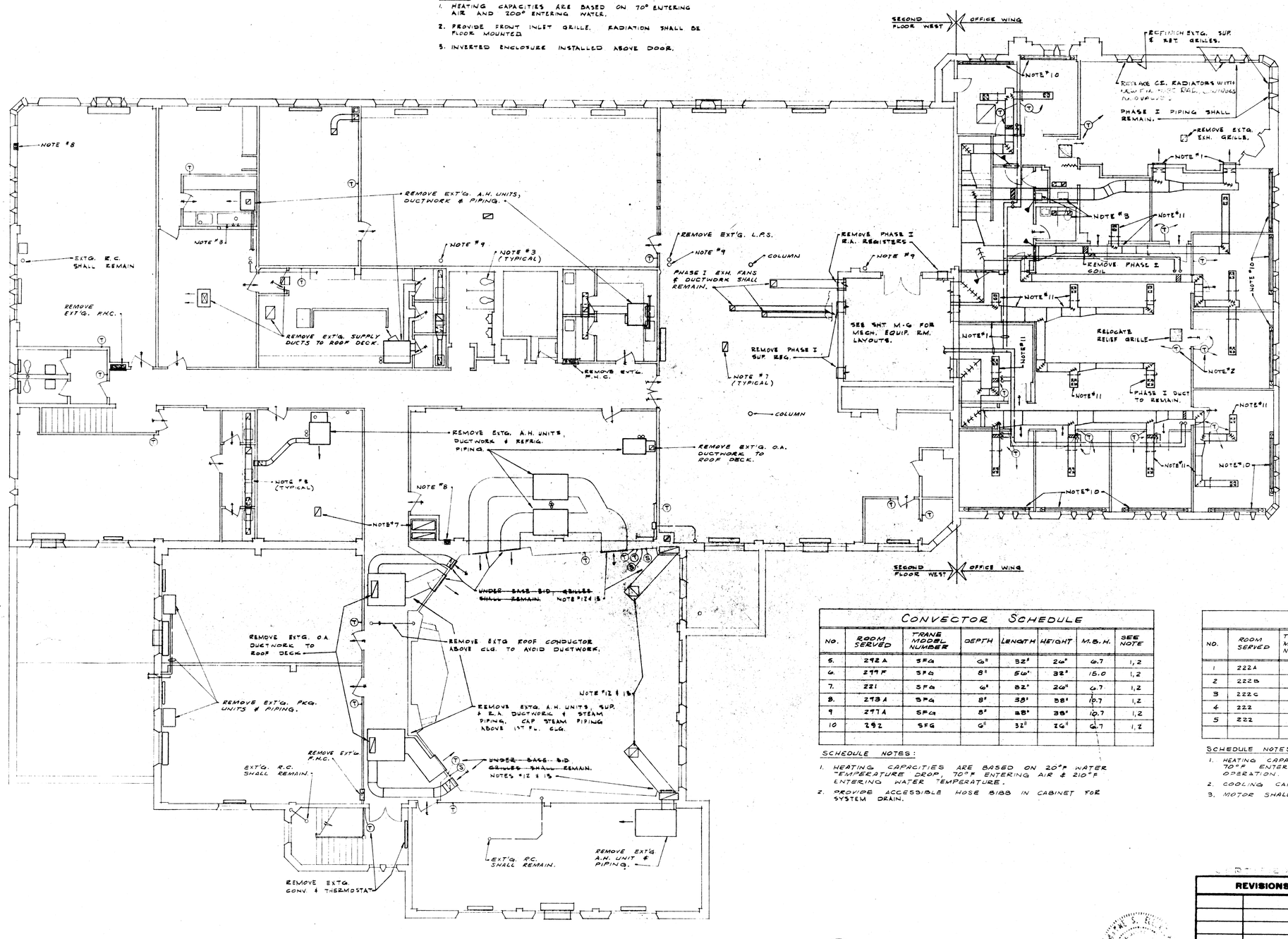
1. PUMP MOTOR: 115 VOLTS, 1 PHASE, 60 CYCLES, 1750 RPM.

FIN TUBE RADIATION SCHEDULE

TYPE	TRANE MODEL NUMBER	BTH/FT	ROWS	FIN SIZE	NOTES
A	205 WALL FIN	1950	1	2½" x 5¼"	1,2
B	205 WALL FIN	2320	2	2½" x 5¼"	1,2
C	ELEMENT ONLY	1950	1	2½" x 5¼"	1
D	ENCLOSURE ONLY	—	—	—	2
E	165 WALL FIN	2360	2	2½" x 5¼"	1,3

NOTES:

1. HEATING CAPACITIES ARE BASED ON 70° ENTERING AIR AND 200° ENTERING WATER.
2. PROVIDE FRONT INLET GRILLE. RADIATION SHALL BE FLOOR MOUNTED.
3. INVERTED ENCLOSURE INSTALLED ABOVE DOOR.

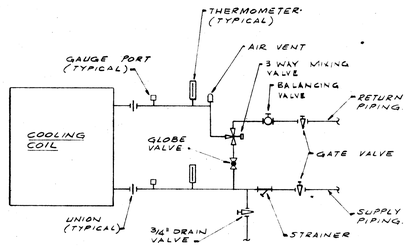


EXISTING SECOND FLOOR PLAN

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

PLAN NOTES

1. PHASE I DUCTWORK, DIFFUSERS, DAMPERS, DUCT COILS, PIPING, & GRILLES ABOVE NEW OFFICE WING CEILING SHALL REMAIN, UNLESS OTHERWISE NOTED.
2. REMOVE ALL EXISTING THERMOSTATS ON SECOND FLOOR, UNLESS OTHERWISE NOTED.
3. REMOVE ALL PLUMBING FIXTURES ON SECOND FLOOR. REMOVE FIXTURE PIPING TO ABOVE 1ST FLOOR C.L.G., UNLESS OTHERWISE NOTED. SEE SHEETS M-1 & M-3.
4. PHASE I FIN TUBE RADIATION IN OFFICE WING SHALL REMAIN, UNLESS OTHERWISE NOTED. REMOVE EXISTING CONTROL VALVES & OLD EXISTING PIPING TO PHASE I RADIATION; PHASE I PIPING SHALL REMAIN, UNLESS OTHERWISE NOTED.
5. ALL DEMOLITION BY GENERAL CONTRACTOR.
6. REMOVE ALL EXISTING CAST IRON RADIATORS, CONVECTORS, CONTROL VALVES, & OLD EXTG. PIPING ON 2ND FL. WEST, UNLESS OTHERWISE NOTED; PHASE I PIPING SHALL REMAIN, UNLESS OTHERWISE NOTED.
7. REMOVE ALL EXT'G. EXHAUST DUCTWORK ON 2ND FL. WEST TO ROOF DECK, UNLESS OTHERWISE NOTED.
8. REMOVE EXT'G. FIRE EXTINGUISHER CABINET IN 2ND FL WEST.
9. REMOVE EXT'G. ROOF CONDUCTOR ON 2ND FL. WEST. SEE SHT. M-3
10. REMOVE PHASE I RADIATION ENCLOSURES IN OFFICE WING. ENCLOSURES WILL BE RELOCATED. SEE SHT. M-4.
11. REMOVE SECTION OF PHASE I DUCT & DIFFUSER. SEE SHT M-4.
12. UNDER BASE BID, GEN. CONTR. WILL NOT REMODEL AUDITORIUM #220. MECH. CONTR. SHALL INSTALL A.H. UNIT #5 AND RUN DUCTWORK TO AUDITORIUM. CONNECT SUP. & RET. DUCTS TO EXTG. REGISTERS ON ~~WEST WALL~~ OF AUDITORIUM. EXTG. G CONVECTORS ~~ON~~ EAST WALL SHALL REMAIN. INSTALL NEW ~~TEMP.~~ CONTROL FOR A.H. UNIT #5 AND EXTG. CONVECTORS.
13. ~~UNDER ALTERNATE BID #6~~, AUDITORIUM #220 WILL BE REMODELED. REMOVE EXTG GRILLES, CONVECTOR & TEMP. CONTROL. REMOVE GRAVITY RELIEF GRILLE & DUCT IN CHASE. REMOVE RELIEF DUCT TO ROOF DECK.



AIR HANDLING UNIT COOLING COIL PIPING DIAGRAM.

NO SCALE

CONVECTOR SCHEDULE

NO.	ROOM SERVED	TRANE MODEL NUMBER	DEPTH	LENGTH	HEIGHT	M.B.H.	SEE NOTE
5.	292 A	SFG	6"	32"	26"	6.7	1,2
6.	299 F	SFG	8"	56"	32"	15.0	1,2
7.	221	SFG	6"	82"	26"	6.7	1,2
8.	293 A	SFG	8"	38"	38"	10.7	1,2
9	297 A	SFG	8"	88"	38"	10.7	1,2
10	292	SFG	6"	32"	26"	6.7	1,2

SCHEDULE NOTES:

1. HEATING CAPACITIES ARE BASED ON 20°F WATER TEMPERATURE DROP, 70°F ENTERING AIR & 210°F ENTERING WATER TEMPERATURE.
2. PROVIDE ACCESSIBLE HOSE BIBB IN CABINET FOR SYSTEM DRAIN.

FAN COIL UNIT SCHEDULE

NO.	ROOM SERVED	TRANE MODEL NUMBER	CABINET TYPE	C.F.M.	COOLING CAPACITIES			HEATING CAPACITIES		SEE NOTE
					SENSIBLE M.B.H.	TOTAL M.B.H.	G.P.M.	M.B.H.	G.P.M.	
1	222A	03	B22	300	6.3	7.9	1.7	26.0	4.0	1,2,3
2	222B	03	B22	300	6.3	7.9	1.7	26.0	4.0	1,2,3
3	222C	03	B22	300	6.3	7.9	1.7	26.0	4.0	1,2,3
4	222	03	D26	300	6.3	7.9	1.7	26.0	4.0	1,2,3
5	222	03	D26	300	6.3	7.9	1.7	26.0	4.0	1,2,3

SCHEDULE NOTES:

1. HEATING CAPACITIES ARE BASED ON ONE ROW AUXILIARY HEATING COIL 70°F ENTERING AIR, 210°F ENTERING WATER AND HIGH SPEED OPERATION.
2. COOLING CAPACITIES ARE BASED ON 42°F ENTERING WATER.
3. MOTOR SHALL BE MULTI-SPEED 120 VOLT, 1 PHASE 60 CYCLE.

REVISIONS	

PHASE II REMODELING OF ERNIE PYLE HALL

INDIANA UNIVERSITY — BLOOMINGTON, INDIANA

ED GIBSON & ASSOCIATES
ARCHITECTS
INDIANAPOLIS — INDIANA

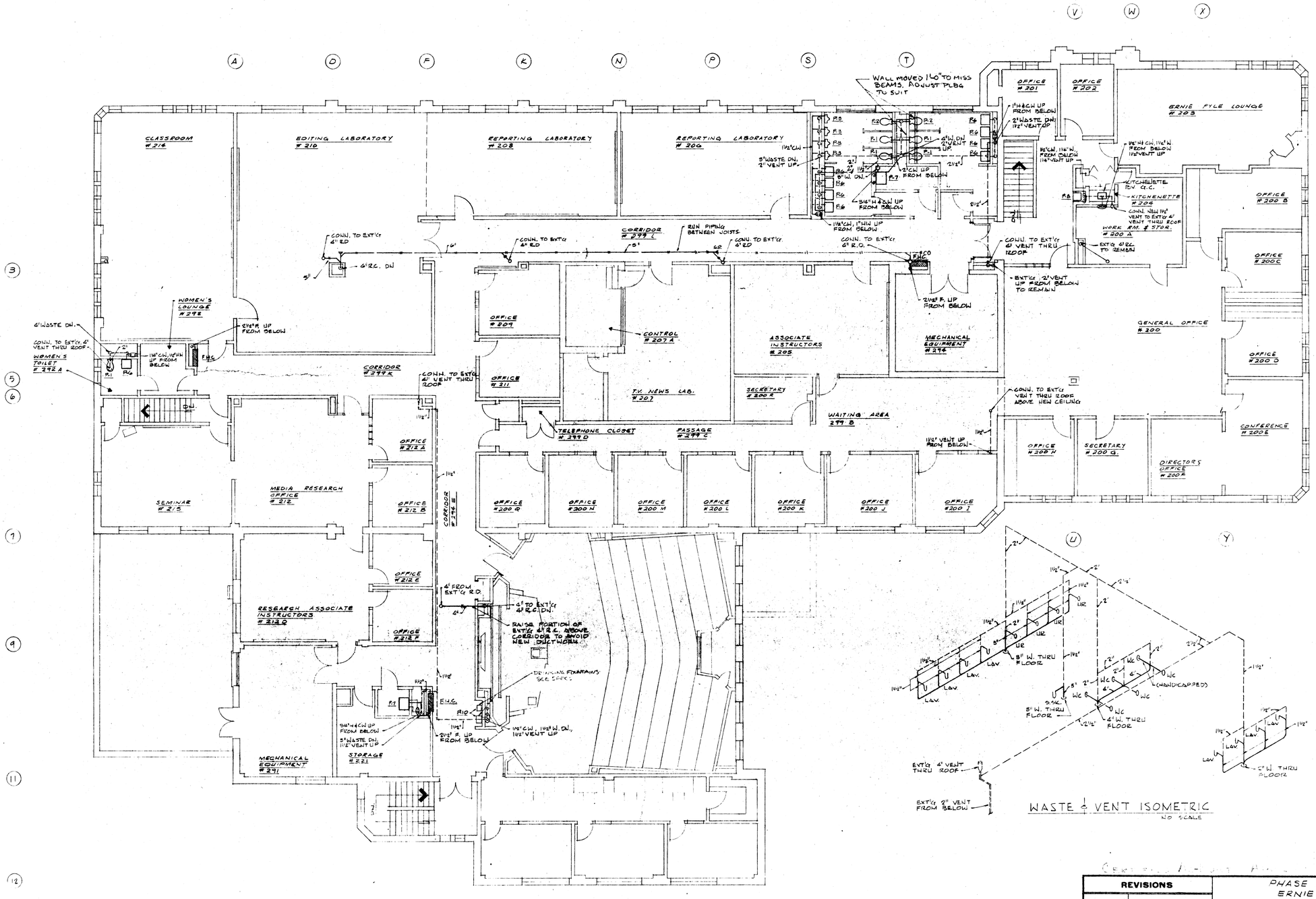
DR. RK
TR. DKB
CK. WSE
SCALE AS NOTED
DATE 7-11-75

AMMERMAN, DAVIS & STOUT
INCORPORATED
ENGINEERS
INDIANAPOLIS, IND.

CERTIFIED BY: Wayne S. Morton P.E.

SHEET NO. 2 OF 6 SHEETS
DRAWING NO. M-2
PROJECT NO. 7411
FILE

BRUNING 44-131 21120



NEW PLUMBING SECOND FLOOR PLAN

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

REVISIONS	

PHASE II REMODELING OF ERNIE PYLE HALL

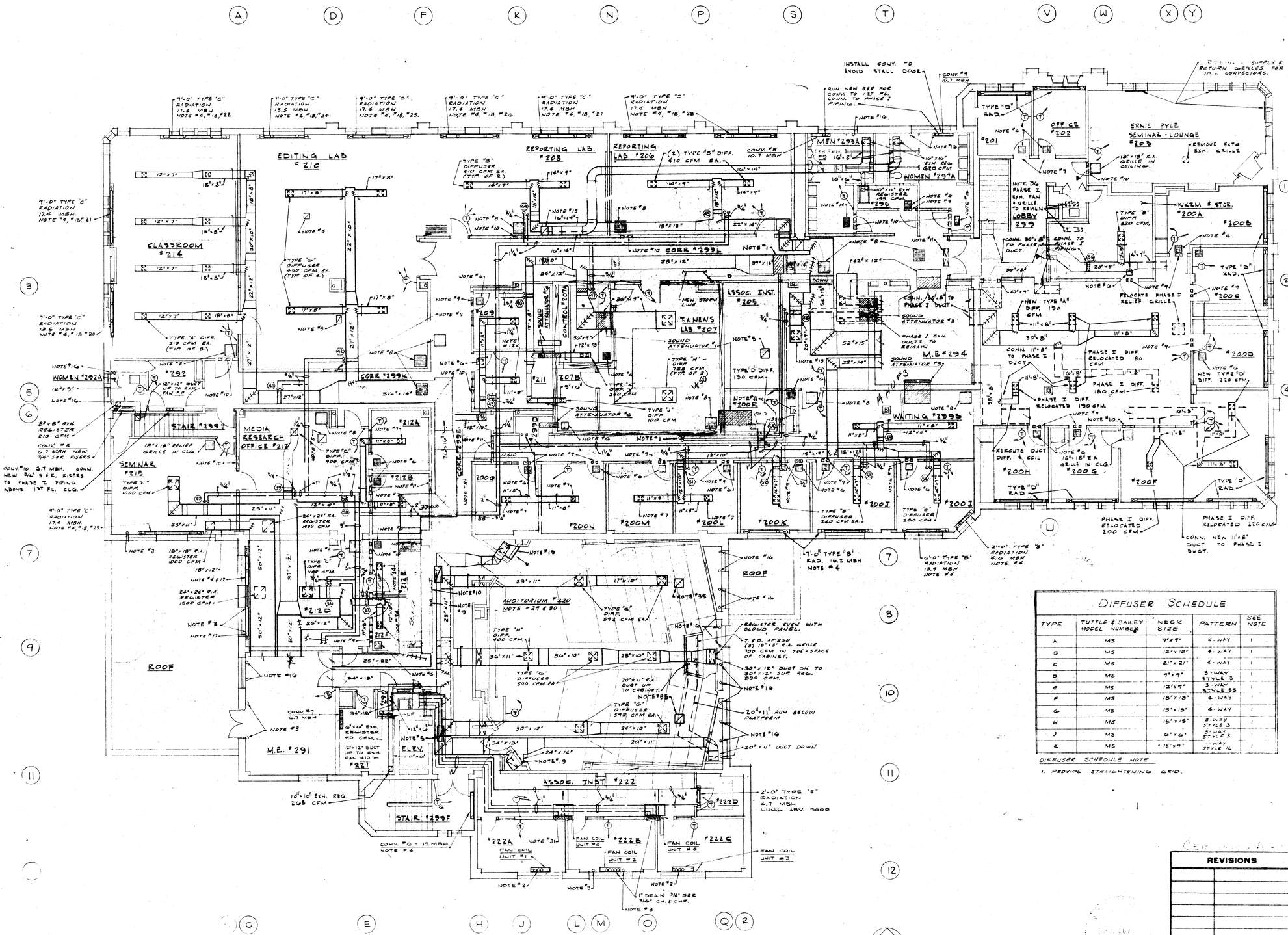
INDIANA UNIVERSITY BLOOMINGTON, INDIANA

ED GIBSON & ASSOCIATES ARCHITECTS

INDIANAPOLIS INDIANA

DR. M.T.	AMMERMAN, DAVIS & STOUT INCORPORATED ENGINEERS INDIANAPOLIS, IND.	SHEET NO. 3	
TR. DKB		OF 6 SHEETS	
CK. WSE		DRAWING NO. M-3	
SCALE AS NOTED		PROJECT NO 7411	
DATE 7-11-75	CERTIFIED BY: Wayne L. Ellerton P.E.	FILE	

BRUNING 44-131 21120



NEW H.V.A.C. SECOND FLOOR PLAN

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

SEE NOTES #29 & #30 FOR BASE BID & ALTERNATE BID #6

PLAN NOTES

1. INSTALL TRANE EH-50, OR AN APP. EQ., COIL & CASING IN DUCT. CAPACITY: 56,000 BTUH, 800 CFM. COIL SHALL BE MATCHED WITH TRANE RAUB 506A, OR AN APP. EQ., CONDENSING UNIT ON ROOF. RUN 1/8" SUCTION, 5/8" LIQUID, & 7/8" HOT GAS BY-PASS LINES TO COND. UNIT THRU EXTG. PITCH POCKET. CONN. 1 1/2" COND. DRAIN LINE TO NEW STORM LINE ABOVE CORR. CLG.
2. CONNECT FAN COIL UNIT TO EXTG. S. & R. RISERS. RUN NEW 1" DRAIN, 3/4" CH. & CH.R. DN.
3. REMOVE PHASE I STEAM S. & R. RISERS, CAP ABOVE 1ST FL. CLG.
4. CONNECT RAD. OR CONV. TO PHASE I HOT WATER HEATING RISERS.
5. EXTG. DUCT THRU ROOF TO NEW RELIEF VENT. SEE SHT. M-5.
6. 12"x12" R.A. GRILLE IN CLG.
7. TYPE "A" DIFFUSER 200 CFM.
8. 24"x24" R.A. GRILLE IN CLG.
9. 12"x12" OPENING THRU WALL ABOVE CLG. (NO WALL ABOVE CEILING)
10. 24"x12" OPENING THRU WALL ABOVE CLG.
11. 36"x12" OPENING THRU WALL ABOVE CLG.
12. TYPE "A" DIFFUSER 210 CFM.
13. TYPE "F" DIFFUSER 700 CFM.
14. 18"x12" EXH. GRILLE IN CLG.
15. 10"x16" EXH. DUCT UP, CONNECT TO EXTG. EXH. DUCT THRU ROOF.
16. REMOVE PHASE I HOT WATER HEATING RISERS, CAP ABOVE 1ST FL. CLG.
17. 5'-0" TYPE "A" RADIATION 9.6 MBH.
18. PROVIDE NEW ENCLOSURE END CAPS AS REQUIRED.
19. 24"x16" DUCT DN. CHASE TO 31"W.x30"H. RA REG. 14' ABOVE FL. 1950 CFM.
20. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 201.
21. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200G.
22. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200H.
23. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200F.
24. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 202.
25. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200B.
26. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200C.
27. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200D.
28. RELOCATE EXTG. RAD. ENCLOSURE FROM RM. 200E.
29. UNDER BASE BID GEN. CONTR. WILL NOT REMODEL AUDITORIUM #220. MECH. CONTR. SHALL INSTALL A.H. UNIT & AND RUN DUCTWORK TO AUDITORIUM. ~~CONNECT SUP. & RET. DUCTS TO EXTG. REGISTERS ON WEST WALL OF AUDITORIUM. EXTG. 6 CONVECTORS ON EAST WALL SHALL REMAIN.~~ INSTALL NEW TEMP. CONTROL FOR A.H. UNIT & CONVECTORS.
30. ~~UNDER ALTERNATE BID #6~~, INSTALL NEW DUCTWORK & DIFFUSERS IN AUDITORIUM. REMOVE EXTG. GRILLES. CONN. TEMP. CONTROL. REMOVE GRAVITY RELIEF GRILLE & DUCT IN CHASE. REMOVE RELIEF DUCT TO ROOF DECK.
31. 1" DRAIN 3/4" S.&R., 3/4" CH. & CH.R. TO FAN COIL UNIT #4. 1" CH.& CH.R. DOWN WALL TO 1ST FL. SEE SHT. M-1.
32. ① INDICATES RE-HEAT COIL NUMBER.
33. ▶ INDICATES FIRE DAMPER.
34. TYPE "E" DIFFUSER 200 CFM.
35. 18"x18" DUCT TO EXTG. RELIEF VENT. INSTALL NEW RELIEF DAMPERS. DUCTS OPEN TO SPACE ABOVE CEILING.
36. [illegible] REMOVE AND [illegible]

DIFFUSER SCHEDULE

TYPE	TUTTLE & BAILEY MODEL NUMBER	NECK SIZE	PATTERN	SEE NOTE
A	MS	9"x9"	4-WAY	1
B	MS	12"x12"	4-WAY	1
C	MS	21"x21"	4-WAY	1
D	MS	9"x9"	3-WAY STYLE 3	1
E	MS	12"x9"	3-WAY STYLE 33	1
F	MS	18"x18"	4-WAY	1
G	MS	15"x15"	4-WAY	1
H	MS	15"x15"	2-WAY STYLE 3	1
J	MS	6"x6"	3-WAY STYLE 3	1
L	MS	15"x9"	1-WAY STYLE 16	1

DIFFUSER SCHEDULE NOTE

1. PROVIDE STRAIGHTENING GRID.

REVISIONS	

PHASE II REMODELING OF ERNIE PYLE HALL

INDIANA UNIVERSITY — BLOOMINGTON, INDIANA

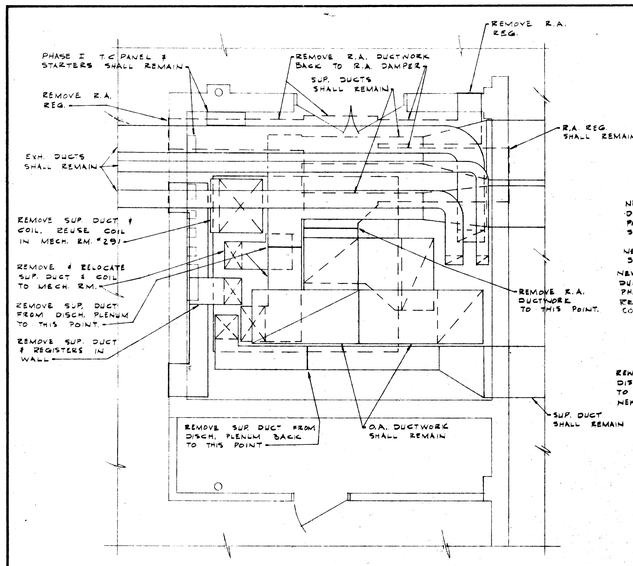
ED GIBSON & ASSOCIATES ARCHITECTS

INDIANAPOLIS — INDIANA

AMMERMAN, DAVIS & STOUT INCORPORATED ENGINEERS — INDIANAPOLIS, IND.

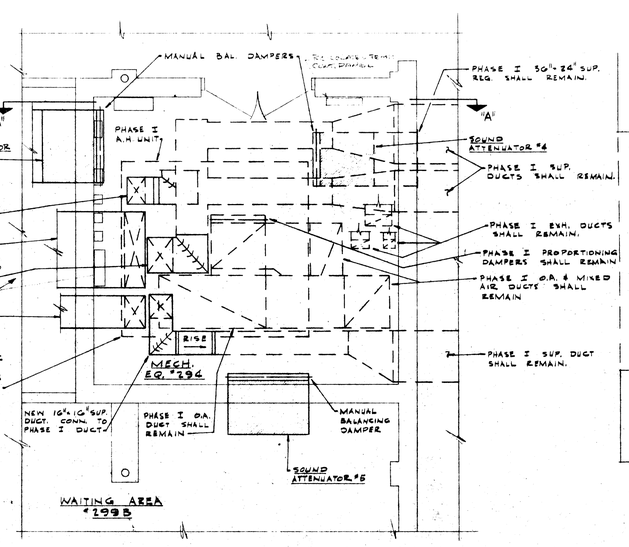
DR. RK	SHEET NO. 4		
TR. DKB	OF 68 SHEETS		
CK. WSE	DRAWING NO. M-4		
SCALE AS NOTED	PROJECT NO. 7411		
DATE 7-11-75	CERTIFIED BY Wayne S. Ellerton P.E.	FILE	

BRUNING 44-131 21120



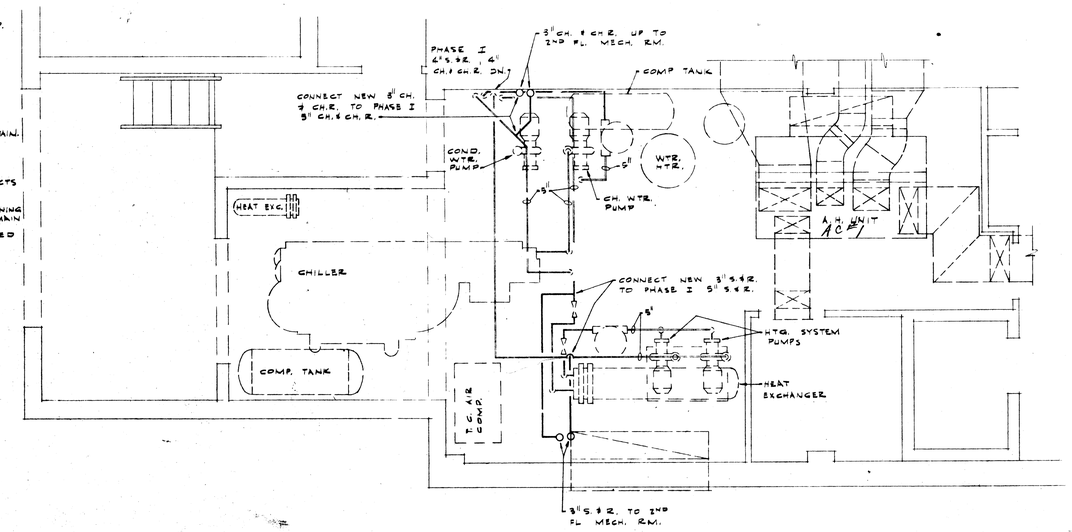
PHASE I MECHANICAL EQUIPMENT #294

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



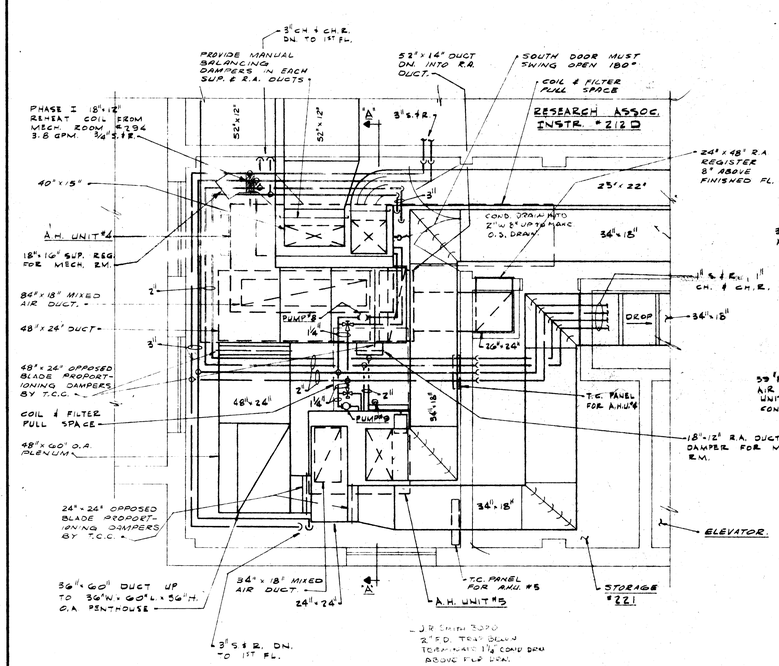
PHASE II MECHANICAL EQUIPMENT #294

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



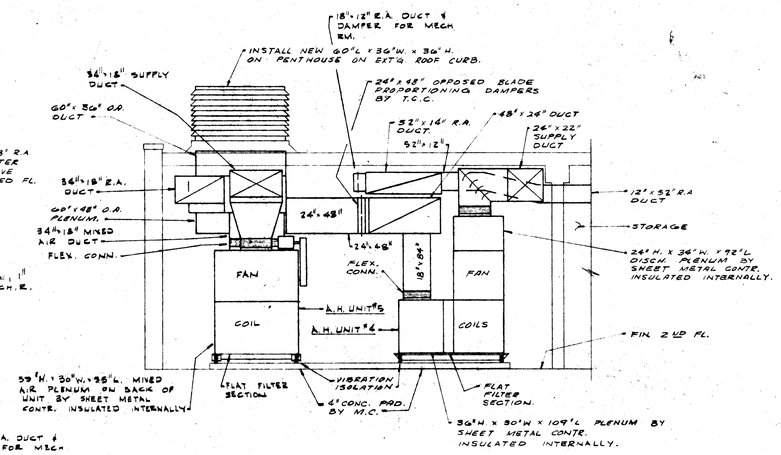
PHASE I MECHANICAL EQUIPMENT ROOM

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



MECHANICAL EQUIPMENT #291 LAYOUT

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



SECTION "A-A"

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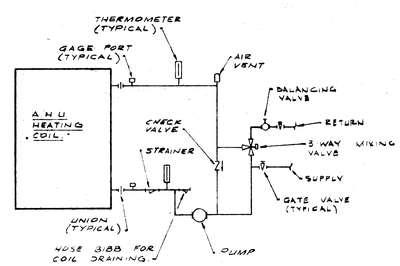

DETAIL OF AIR HANDLING UNIT HEATING COIL PIPING.

NO SCALE

REHEAT COIL SCHEDULE

NO	AREA SERVED	TOTAL LOAD B.T.U.	C.F.M. STANDARD AIR	WATER MAXIMUM G.P.M.	WATER MAXIMUM PRESSURE DROP (FT)	MINIMUM NUMBER OF ROWS	FIN SERIES	SIZE LENGTH	SIZE WIDTH	SEE NOTE
36	212D	42,000.	1100	4.2	2.0	1	16	18"	12"	1,2
37	212E & 212F	15,200	400	1.5	2.0	1	16	12"	9"	1,2
38	212A & 212B	15,200.	400	1.5	2.0	1	16	12"	9"	1,2
39	212 & 212C	38,000.	980	3.8	2.0	1	16	18	12	1,2
40.	215	38,000.	1000	3.8	2.0	1	16	18"	12"	1,2
41	214	65,000.	1700	6.5	2.0	1	16	27"	12"	1,2
42.	210	69,000	1800	7.0	2.0	1	16	27"	12"	1,2
43	209 & 211	16,000	420.	1.6	2.0	1	16	12"	9"	1,2
44.	208	31,300.	820	3.1	2.0	1	16	18"	12"	1,2
45	206	81,300.	820	3.1	2.0	1	16	18"	12"	1,2
46	207A & 207B	13,350.	350	1.4	2.0	1	16	9"	6"	1,2
47	207	55,400.	1450	5.5	2.0	1	16	21"	12"	1,2
48	205	26,700	700	2.7	2.0	1	16	18"	12"	1,2
49	299B	17,500.	460	1.8	2.0	1	16	12"	9"	1,2
50.	200Q & 200N	15,200.	400	1.5	2.0	1	16	12"	9"	1,2
51.	200L & 200M	15,200.	400	1.5	2.0	1	16	12"	9"	1,2
52	200K	9,100.	240	0.9	2.0	1	18	9"	6"	1,2
53.	200J	9,100.	240	0.9	2.0	1	18	9"	6"	1,2
54.	200I	9,550	250	1.0	2.0	1	18	9"	6"	1,2
55	200R	5,000.	130	0.5	2.0	1	16	6"	6"	1,2
56.	200A & 200B	21,400.	560	2.1	2.0	1	16	18"	6"	1,2

SCHEDULE NOTES:

1. CAPACITIES ARE BASED ON 200°F ENTERING WATER TEMPERATURE AND 65°F ENTERING AIR TEMPERATURE.
2. MAXIMUM COIL FACE VELOCITY SHALL BE 800 FPM.

CERTIFIED AS-BUILT RECD. RLB

REVISIONS	

PHASE II REMODELING OF ERNIE PYLE HALL

INDIANA UNIVERSITY BLOOMINGTON, INDIANA

ED GIBSON & ASSOCIATES ARCHITECTS

INDIANAPOLIS INDIANA

DR. RK
TR. DKB
CK. WSE
SCALE AS NOTED
DATE 7-11-75

AMMERMAN, DAVIS & STOUT
INCORPORATED
ENGINEERS
INDIANAPOLIS, IND.

CERTIFIED BY: Wayne L. Ellerton P.E.

SHEET NO. 6 OF 6 SHEETS
DRAWING NO. M-6
PROJECT NO. 7411
FILE

BRUNING 44-131 21120