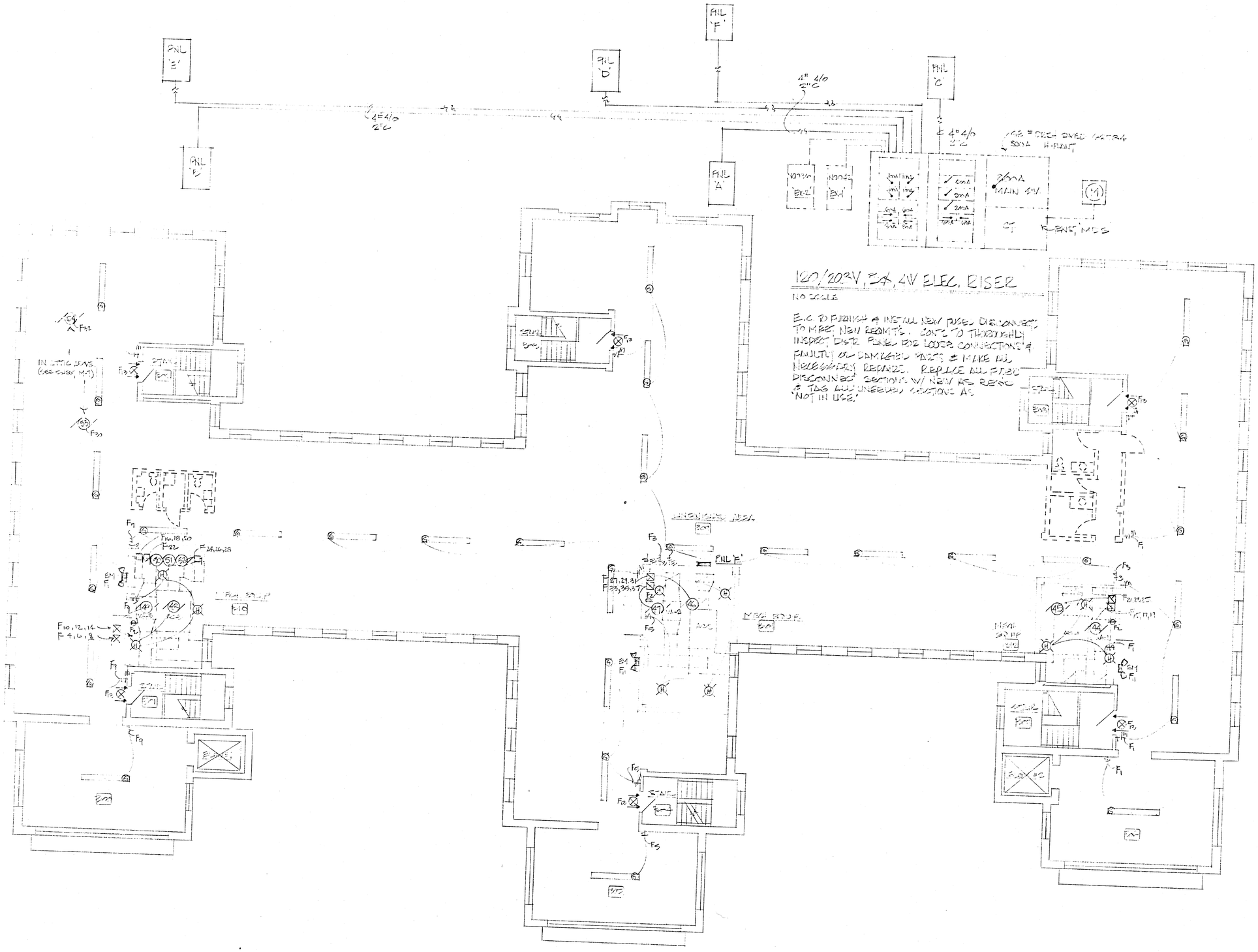


THIRD FLOOR ELECTRICAL PLAN
SCALE 1/8"=1'-0"

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT 1989
SHEET E 3
PROJ. NO. 8905

LIGHTING FIXTURES

TAG	LAMPS NO.	LAMPS TYPE	DESCRIPTION	MNFG.	CAT. NO.	FINISH	LENS	MOUNTING
A	4	F40CWRS	2 X 4 TROFFER	WILLIAMS	5224 RWKA110	B. W. E.	11" KA ACRYLIC PRISMATIC	RECESSED
B	3	F40CWRS	2 X 4 TROFFER	WILLIAMS	5223 RWKA110	B. W. E.	11" KA ACRYLIC PRISMATIC	RECESSED
C	2	F40CWRS	1 X 4 TROFFER	WILLIAMS	EPG-S122-RWKA110	B. W. E.	11" KA ACRYLIC PRISMATIC	RECESSED
D	2	F40CWRS	1' X 4' WALL FXT.	KEYSTONE	AD240-A	B. W. E.	11" KA ACRYLIC PRISMATIC	MNT. @ 6'8" AFF
E	2	F40LWES	1' X 4' WALL FXT.	WILLIAMS	2922-KA	B. W. E.	PRISMATIC ACRYLIC K-12	ABOVE MIRROR
EM	2	INCLUDED	2 HEAD EMERG. FXT.	SILTRON	EM-60			WALL
F	1	150 W	DOWNLIGHTS	CAPRI	AD6X-2503	AJZAL- GOLD	—	RECESSED
G	2	F96LWES	8' STRIP	WILLIAMS	7621	B. W. E.	—	SURFACE
H	1	100A19	PORCLAIN					SURFACE
J	4	100W-2 R30	4 FT. TRAC LIGHT COMPLETE	CAPRI	KT231	WHITE	—	CEILING
K	1	150W A19	SHOWER FXT.	KENALL	3636	CAST ALUMINUM	OPAL	WALL
X	2	PL-5	EXIT LIGHT-SINGLE -DOUBLE	SILTRON	DXF-SR-120 DXF-SR-120			UNIVERSAL

PANELBOARD SCHEDULE PANEL "A"

AMPS 225 VOLTAGE 208 PHASE 3 # WIRES 4 MLO

DESCRIPTION	CONN. KVA	CRCT. BKR. AMP/POLES	CRCT. NO.	CRCT. NO.	CRCT. BKR. AMP/POLES	CONN. KVA	DESCRIPTION
LIGHTS: RM 27	1.20	20/1	1A	2A	20/1	1.08	RECEPT. RM. 27
28, 34A	1.00	20/1	3B	4B	20/1	1.08	27, 28
32	1.1	20/1	5C	6C	20/1	1.08	32
32	1.1	20/1	7A	8A	20/1	1.08	32
35	1.09	20/1	9B	10B	20/1	1.44	35, 36
36, 37	1.1	20/1	11C	12C	20/1	1.26	36, 37
38, 39, 40, 41	1.35	20/1	13A	14A	20/1	1.44	38, 39, 40
43, 44, 45, 46, 47	1.56	20/1	15B	16B	20/1	1.26	43, 44
23	1.456	20/1	17C	18C	20/1	.90	45, 47
25	.910	20/1	19A	20A	20/1	1.26	23
25	.910	20/1	21B	22B	20/1	.72	26
25	.910	20/1	23C	24C	20/1	.90	25
26, 35	1.11	20/1	25A	26A	20/1	.72	25
SPARES	—	20/1	27B	28B	20/1		SPARE
	—	20/1	29C	30C	20/1		
	—	20/1	31A	32A	40/2	3.75	MOTOR NO. 9
	—	20/1	33B	34B		3.75	—
LIGHTS: EMERGENCY	—	20/1	35C	36C	40/2	3.75	10
EXIT	—	20/1	37A	38A		3.75	—
SPACE	—	20/1	39B	40B	15/1	.20	11, 12
			41C	42C	15/1	.115	24

PANELBOARD SCHEDULE PANEL "B"

AMPS 225 VOLTAGE 208 PHASE 3 # WIRES 4 MLO

DESCRIPTION	CONN. KVA	CRCT. BKR. AMP/POLES	CRCT. NO.	CRCT. NO.	CRCT. BKR. AMP/POLES	CONN. KVA	DESCRIPTION
LIGHTING RM: 1, 2, 4	1.18	20/1	1A	2A	20/1	1.08	RECEPT. RM.: 1, 2, 4
6, 7	1.01	20/1	3B	4B	20/1	1.26	8, 9
8	1.10	20/1	5C	6C	20/1	1.26	9, 11, 13
9, 11	1.47	20/1	7A	8A	20/1	1.44	13, 14, 15
13, 14	1.10	20/1	9B	10B	20/1	1.44	15, 16
15, 16	1.44	20/1	11C	12C	20/1	1.26	18, 19, 20, 21
18, 19, 20, 21	1.15	20/1	13A	14A	20/1	1.44	6, 7, 10
10, 22	1.1	20/1	15B	16B	20/1	.90	10, 22, 25
SPARE		20/1	17C	18C	20/1	-	SPARE
		20/1	19A	20A	20/1	-	
		20/1	21B	22B	20/1	-	
		20/1	23C	24C	20/1	-	
LIGHTING: EMERGENCY		20/1	25A	26A	30/2	2.25	MOTORS NO.: 22
EXIT		20/1	27B	28B		2.25	
MOTOR NO.: 19, 20, 21	.345	20/1	29C	30C			SPACE
23	.11	20/1	31A	32A			
SPACE			33B	34B			
			35C	36C			
			37A	38A			
			39B	40B			
			41C	42C			

PANELBOARD SCHEDULE PANEL "F"

AMPS 225 VOLTAGE 208 PHASE 3 # WIRES 4 MLO

DESCRIPTION	CONN. KVA	CRCT. BKR. AMP/POLES	CRCT. NO.	CRCT. NO.	CRCT. BKR. AMP/POLES	CONN. KVA	DESCRIPTION
LIGHTS: 306, 309, 312	1.03	20/1	1A	2A		.54	RECEPTACLES:
309	1.38	20/1	3B	4B	60/3	3.86	MOTORS: 48
305, 309, 301	1.09	20/1	5C	6C		3.86	
309	.86	20/1	7A	8A		3.86	
300, 309, 310	1.04	20/1	9B	10B	20/3	1.32	49
EMERGENCY	-		11C	12C		1.32	
EXIT	-		13A	14A		1.32	
MOTORS: 44	1.32	20/3	15B	16B	15/3	.56	50
	1.32		17C	18C		.56	
	1.32		19A	20A		.56	
45	3.86	60/3	21B	22B	15/1	.35	51
			23C	24C	15/3	.564	52
			25A	26A		.564	
46	3.03	50/3	27B	28B		.564	
			29C	30C	15/1	.667	53
			31A	32A	15/1	.667	54
47	.94	15/3	33B	34B	—	—	SPACE
	.94		35C	36C	—	—	
	.94		37A	38A	—	—	
SPACE	—	—	39B	40B	—	—	
	—	—	41C	42C	—	—	

MOTORS Ø

TAG	DESCRIPTION	CONTROL	HP	FLA	VOLT	Ø	PNL	BKR. SIZE	WIRE & CONDUIT	DISC SW. @ UNIT	STARTERS
1	CHILLER WATER PUMP	MANUAL	60	77	480	3	EXIST	(110A) 3P	3 #1 THW-1 1/4"C.	(100A)3P	BY HVAC CONTR.
2	STEAM COND. PUMP	FLOAT SW.	(2)1	4.14	208	3		(15A_ 3P	3 #12 THNN-1/2"C.	(6.25A)3P	(2) BY HVAC
3 & 4	HW PUMPS	P. E. SW.	(2)10	32.2	208	3		(60A) 3P	3 #6 THHN-3/4"C.	(50A) 3P	(2) BY HVAC
5 & 8 9 & 10	ELECTRIC WATER HEATERS	AQUASTAT	(4)7.5 KW	36	208	1		(50A) 2P	2 #8 THHN 1/2" C.	(50A) 2P	
6,11,12	CEILING EXH. PANS	LITE SW.	1/50	1.0	115	1		(15A) 1P	2 #12 THHN-1/2"C.	(5A 1P	
7	AIR COND. UNIT AC-5	P. E. SW.	5	17.5	208	3		(35A)3P	3 #8 THHN-1/2"C.	(25A)3P	BY HVAC
13	UNIT HEATER UH-4	T'STAT	1/6	4.4	115	1		(15A) 1P	2 #12 THHN-1/2"C.	(7A) 1P	
14	FAN VA-4	INTERLOCK WITH 7	5	17.5	208	3		(35A) 3P	3 #8 THHN-1/2"C.	(25A) 3p	BY HVAC
15	AIR DRIER	HUNIDISTAT	1/5	2.9	115	1		(15A) 1P	2 #12 THHN-1/2"C.	(7A) 1P	
16, 17	AIR COMPRESSORS	PRESS. SW.	(2) 1	4.14	208	3		(15A) 3P	3 #12 THHN-1/2" C.	(6.25A)3P	BY HVAC
18	AIR COND. UNIT AC-4	P. E. SW.	15	48.3	208	3		(90A) 3P	3 #8 THHN-1/2"C.	(60A) 3P	
19,20,21	EXHAUST FANS	LITE SW.	1/50	1.0	115	1		(15A) 1P	2 #12 THHN-1/2"C.	(5A) 1P	
22	ELECT. WATER HTR. EWH-1	AQUASTAT	4.5 KW	22	208	1		(30A) 2P	3 #8 THHN-1/2"C.	(25A) 2P	
23, 24 25	CAB HTRS.	T'STAT	1/60	1.0	115	1		(15A) 1P	2 #12 THHN-1/2"C.	(5A)1P	
26, 27, 28, 29	NOT USED										
30, 31, 36, 39, 40, 41	CEILING EXHAUST FANS	LITE SW.	1/50	1.0	115	1		(15A) 1P	2 #12 THHN-1/2"C.	(7A) 1P	
32, 33, 34, 35 36, 37	ELECTRIC WATER HEATERS	AQUASTAT	7.5 KW	36	208	1		(50A) 2P	2 #8 THHN-1/2"C.	(40A) 2P	
38	ELECTRIC WATER HEATEP	AQUASTAT	1.5 KW	7.2	208	1		(15A) 2P	2 #12 THHN-1/2"C.	(15A) 2P	
42	ELECTRIC WATER HEATER	AQUASTAT	4.5	22	208	1		(40A) 2P	2 #8 THHN-1/2"C.	(30A) 2P	
43	STILL				208	1		(15A)1P	2 #12 THHN-1/2"C.	(15A) 1P	
44	EXHAUST FAN VA-1	INTERLOCK WITH 45	3	11	208	3		(20A) 3P	3 #12 THHN-1/2"C.	(17.5A) 3P	FURN. BY HVAC
45	AIR COND. UNIT AC-1	P.E. SW.	10	32.2	208	3		(60A) 3P	3 #6 THHN-3/4"C.	(50A) 3P	FURN. BY HVAC
46	AIR COND. UNIT AC-2	P. E. SW.	7.5	25.3	208	3		(50A) 3P	3 #8 THHN-1/2"C.	(40A) 3P	FURN. BY HVAC
47	EXHAUST FAN VA-2	INTERLOCK WITH 3 46	2	7.82	208	3		(15A) 3P	3 #12 THHN-1/2"C.	(12A) 3P	FURN. BY HVAC
48	AIR COND. UNIT AC-3	P. E. SW.	10	32.2	208	3		(60A) 3P	3 #6 THHN-3/4"C.	(50A) 3P	FURN. BY HVAC
49	EXHAUST FAN VA-3	INTERLOCK WITH # 48	3	11	208	3		(50A) 3P	2 # 12 THHN-1/2"C.	(17.5A) 3P	FURN. BY HVAC
50	MEDICAL AIR COMPRESS.	PRESS. SW.	1.7 KW	4.7	208	3		(15A) 3P	2 # 12 THHN-1/2"C.	(10A) 3P	
51	AIR DRIER	HUMIDISTAT	1/6	2.9	115	1		(15A)1P	2 # 12 THHN-1/2"C.	(7A) 1P	
52	VACUUM PUMP	VAC. SW.	1.7 KW	4.7	208	3		(15A) 3P	3 #12 THHN-1/2"C.	(7A) 3P	
53	EXHAUST FAN	MANUAL MTD. IN RM 214	1/4	5.8	115	1		(15A)1P	2 # 12 THHN-1/2"C.	(15A)1P	FURN. BY HVAC
54	EXHAUST FAN	MANUAL MTD. NEAR FUME HD. RM. 213	1/4	5.8	115	1		(15A)1P	2 # 12 THHN-1/2"C.	(15A)1P	FURN. BY HVAC

PANELBOARD SCHEDULE PANEL "C"

AMPS 225 VOLTAGE 208 PHASE 3 # WIRES 4 MLO

DESCRIPTION	CONN. KVA	CRCT. BKR. AMP/POLES	CRCT. NO.	CRCT. NO.	CRCT. BKR. AMP/POLES	CONN. KVA	DESCRIPTION
LIGHTING RM: 252, 254	1.47	20/1	1A	2A	20/1	1.62	RECEPTACLES RM: 252, 254, 258
253, 255, 257, 259	1.47	20/1	3B	4B	20/1	1.80	258, 256, 260, 264,262
256, 258, 260, 264	1.10	20/1	5C	6C	20/1	1.62	253, 255, 257
261, 263, 265, 276, 277	1.29	20/1	7A	8A	20/1	1.44	257, 259, 261
266, 267, 269	1.20	20/1	9B	10B	20/1	1.62	261, 263, 265
270	1.10	20/1	11C	12C	20/1	1.62	266, 267
272	1.10	20/1	13A	14A	20/1	1.80	269, 270
273, 274, 278	1.10	20/1	15B	16B	20/1	1.80	270, 272, 273
280, 282, 283, 281	1.47	20/1	17C	18C	20/1	1.62	274, 278, 280
LIGHTS: EMERGENCY	-	20/1	19A	20A	20/1	1.80	275, 280, 282, 281
EXIT	-	20/1	21B	22B	20/1	1.26	281, 283
SPARE	-	20/1	23C	24C	20/1	.90	277, 276
	-	20/1	25A	26A			SPACE
MOTORS: 28	3.75	50/2	27B	28B	50/2	3.75	MOTORS: 34
	3.75		29C	30C		3.75	
29	3.75	50/2	31A	32A	50/2	3.75	36
	3.75		33B	34B		3.75	
32	3.75	50/2	35C	36C	50/2	3.75	37
	3.75		37A	38A		3.75	
33	3.75	50/2	39B	40B	20/1	.5	30, 31, 35, 36
	3.75		41C	42C	20/1	.5	39, 40, 41

ELECTRICAL SYMBOLS (NOT ALL APPLY)

SYMBOL	ABBR.	DESCRIPTION	SPECS	REMARKS
$		SINGLE POLE SWITCH		48" MNTG. HT. TO BOTTOM
$2		DOUBLE POLE SWITCH		48" MNTG. HT. TO BOTTOM
$3		THREE WAY SWITCH		48" MNTG. HT. TO BOTTOM
$4		FOUR WAY SWITCH		48" MNTG. HT. TO BOTTOM
$P		SWITCH W/ PILOT LIGHT		48" MNTG. HT. TO BOTTOM
$DIM		DIMMER SWITCH		48" MNTG. HT. TO BOTTOM
$K		KEY OPERATED SWITCH		48" MNTG. HT. TO BOTTOM
$DOOR		DOOR SWITCH		48" MNTG. HT. TO BOTTOM
$R		SWITCH & RECEPTACLE		48" MNTG. HT. TO BOTTOM
$T		TIME SWITCH		48" MNTG. HT. TO BOTTOM
$SCR		SPEED SWITCH		48" MNTG. HT. TO BOTTOM
		TWO LEVEL SWITCHING		
©		1 1/4" COMPUTER CONDUIT TO ABOVE CLG.		
		DUPLEX CONVENIENCE OUTLET		
		SPLIT WIRED OUTLET		
WP		WEATHERPROOF		
AC	AC	ABOVE COUNTER		
BC	BC	BELOW COUNTER		
		FLOOR OUTLET		
		RANGE OUTLET		
C		COMBINATION 120-240 OUTLET		
T		TWIST LOCK OUTLET		
GFIC		GROUND FAULT INTERRUPTING		
		CLOCK OUTLET		
		SPECIAL PURPOSE OUTLET		MOUNT TO SUIT EQUIPMENT
		TELEPHONE OUTLET		16" MNTG. HT. TO BOTT.
		PUBLIC TELEPHONE OUTLET		60" MNTG. HT. TO BOTT.
TV	TV	TV OUTLET		
TC	TC	TIME CLOCK		
P	P	PHOTO-CELL		
		LOUDSPEAKER		FLUSH WITH THE CEILING
		SINGLE FACE CLOCK		
		DOUBLE FACE CLOCK		
120	T'STAT	LINE VOLTAGE THERMOSTAT		56" MNTG. HT. TO BOTT.
F		FIRE ALARM, MANUAL STATION		56" MNTG. HT. TO BOTT.
F		FIRE ALARM HORN		7'-0" MNTG. HT. TO BOTT.
S.		FIRE ALARM SYSTEM SMOKE DETECTOR		
S.1		SINGLE STATION SMOKE DETECTOR		7'-6" AFF ON WALL
S.1F		DITTO WITH FLASHER		7'-6" AFF ON WALL
		ROOM SMOKE DETECTOR ANNUNCIATOR		
		FLUORESCENT FIXTURE		
		INCANDESCENT CLG. FXT.		
		WALL MOUNTED		
PC		PULL CHAIN		
		EXIT SIGN WITH ARROW		
		ADJUSTABLE DOWNLIGHT		
		BATTERY EMERGENCY LIGHT		
	MTR	MOTOR		
	DISC	DISCONNECT SWITCH (FUSED)		
	MS	MOTOR STARTER W/HOA		
		COMBINATION STARTER		
M		MANUAL STARTER		
	PNL	BRANCH CIRCUIT PANELBOARD		72" TO THE TOP

PANELBOARD SCHEDULE PANEL "D"

AMPS 225 VOLTAGE 208 PHASE 3 # WIRES 4 MLO

DESCRIPTION	CONN. KVA	CRCT. BKR. AMP/POLES	CRCT. NO.	CRCT. NO.	CRCT. BKR. AMP/POLES	CONN. KVA	DESCRIPTION
LIGHTING RM: 219, 221, 223, 227	1.10	20/1	1A	2A	20/1	1.62	RECEPTACLES RM: 219, 221, 223
220, 222, 224, 226	1.10	20/1	3B	4B	20/1	1.80	223, 227, 229
229, 231, 235, 236	1.56	20/1	5C	6C	20/1	1.62	220, 222
238	1.20	20/1	7A	8A	20/1	1.62	224, 226
241	.736	20/1	9B	10B	20/1	1.41	228, 230, 245
241	1.10	20/1	11C	12C	20/1	1.62	231, 233, 234
242	1.10	20/1	13A	14A	20/1	1.62	234, 236, 238
243, 251	1.10	20/1	15B	16B	20/1	1.80	241
230, 245, 246	1.47	20/1	17C	18C	20/1	1.62	242
247, 248	1.47	20/1	19A	20A	20/1	1.62	243, 251
248	1.47	20/1	21B	22B	20/1	1.44	245, 246, 247
250, 250A	1.05	20/1	23C	24C	20/1	1.08	247, 248
LIGHTS: EMERGENCY	1.56	20/1	25A	26A	20/1	1.26	248
EXIT	-	20/1	27B	28B	20/1	1.44	250, 250A, 244
MOTORS: 37	-	20/1	29C	30C	40/2	4.6	RANGE
	.75	15.2	31A	32A		4.6	
38	.75		33B	34B			SPACE
	.75	15/2	35C	36C			
39	.75		37A	38A			
SPARE	.10	15/1	39B	40B			
	-	20/1	41C	42C			

PANELBOARD SCHEDULE PANEL "E"

AMPS 225 VOLTAGE 208 PHASE 3 # WIRES 4 MLO

DESCRIPTION	CONN. KVA	CRCT. BKR. AMP/POLES	CRCT. NO.	CRCT. NO.	CRCT. BKR. AMP/POLES	CONN. KVA	DESCRIPTION
LIGHTING RM: 200	1.11	20/1	1A	2A	20/1	1.44	RECEPTACLES RM.: 200, 201
200	1.11	20/1	3B	4B	20/1	1.29	201, 202, 204
200	.90	20/1	5C	6C	20/1	.92	205, 211, 212
201, 202, 204, 205, 206	1.29	20/1	7A	8A	20/1	1.50	212
207, 208, 211, 217, 218	.944	20/1	9B	10B	20/1	1.08	212, 217
212	1.65	20/1	11C	12C	20/1	-	212
212	1.65	20/1	13A	14A	20/1	-	212
212	1.47	20/1	15B	16B	20/1	1.26	212
213	1.10	20/1	17C	18C	20/1	.90	212, 213
214, 215	.736	20/1	19A	20A	20/1	.90	213
219, 221, 223, 227	1.47	20/1	21B	22B	20/1	1.0	213
220, 22, 224, 226		20/1	23C	24C	20/1	1.0	213
LIGHTING: EMERGENCY	—	20/1	25A	26A	20/1	.54	214
EXIT	—	20/1	27B	28B	40/2	4.16	OVEN 214
MOTORS: 40, 41	.40	20/1	29C	30C		4.16	
42	2.25	40/2	31A	32A	20/1	.54	215
	2.25		33B	34B	20/1	1.44	217, 218
43		20/2	35C	36C	20/1	.72	212
			37A	38A	20/1	-	SPARE
SPACE		—	39B	40B	20/1	-	
		—	41C	42C	20/1	-	

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989
SHEET E 4
PROJ. NO. 8905

AIR CONDITIONING UNITS

UNIT NO.	SERVICE	TYPE	CFM OF STD AIR	CFM OF O.A.	MAX. O.V.	FAN DIA.	EXT. S.P. IN IN. WATER	MOTOR HP	FAN WHEEL TYPE	FILTER TYPE	INLET VANES	SUPPORT	VIBRATION ISOLATORS TYPE	VIBRATION ISOLATORS MIN. STATIC DEFLECTION
AC-1	SECOND FL. EAST	HORIZ.	6050	1000	1800	16 1/2"	2 1/4	10	FC	T.A.	YES	CONC. PAD	B	1"
AC-2	SECOND FL. CENTER		4000	600	1740	13 1/2"	2 1/4	7 1/2						
AC-3	SECOND FL. WEST		6700	1000	1850	16 1/2"	2 1/4	10						
AC-4	FIRST FL.		8200	1230	1950	16 1/2"	2 3/4	15						
AC-5	LUNCH RM.		3240	500	2225	10 1/2"	2	5			NO			

UNIT NO.	HEATING COIL MAX. FACE VEL.	ENT. AIR TEMP	LV. AIR TEMP	ENT. WATER TEMP	LV. WATER TEMP	MAX. FINS PER IN.	BRANCH PIPE SIZE	GPM
AC-1	450	55	85	200	160	9	1 1/4"	9.8
AC-2	425						1"	6.5
AC-3	500						1 1/4"	10.9
AC-4	500						1 1/4"	13.3
AC-5	600						1"	5.2

UNIT NO.	COOLING COIL MAX. FACE VEL.	ENT. AIR D.B.	ENT. AIR W.B.	LV. AIR D.B.	LV. AIR W.B.	ENT. WATER TEMP.	LV. WATER TEMP.	MAX. FINS PER IN.	BRANCH PIPE SIZE	GPM
AC-1	450	78	63.4	53	51.4	45	55	9	2"	42
AC-2	425		63.5		51.2				2"	29
AC-3	500		64		51.2				2 1/2"	50
AC-4	500		63.5		51.2				2 1/2"	59
AC-5	600		65		51.2				2"	27

LINEAR DIFFUSERS

TYPE NO.	AIR FLOW DIRECTION	LENGTH	NO. OF SLOTS	INLET DIA.	PLENUM BOX HEIGHT	MAX. NC AT LISTED AIR FLOW
1	2 WAY	4'-0"	2	8"	12 7/16"	27
2	1 WAY		2	8"	12 7/16"	
3	2 WAY		4	10"	14"	
4	1 WAY		4	10"	14"	

VARIABLE AIR VOLUME BOXES

UNIT NO.	BOX CFM OF STD AIR	INLET DIA.	NO. OF OUTLETS	OUTLET DIA.	REHEAT COIL MIN. AIR FLOW	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. WATER TEMP.	LV. WATER TEMP.	MIN. ROWS	BRANCH PIPE SIZE
V-1	350	6"	2	8"	115	55	75	200	180	1	1/2"
V-2	770	10"	4		255						
V-3	400	6"	2		135						
V-4	370		3		125						
V-5	370		3		125						
V-6	250		1		85						
V-7	265		1	10"	90						
V-8	265		1	10"	90						
V-9	460	8"	2	8"	155						
V-10	460		2		155						
V-11	460		2		155						
V-12	460		2		155						
V-13	715	10"	3		235						
V-14	715	10"	3		235						
V-15	500	8"	2		165						
V-16	200	5"	2		60						
V-17	700	10"	3		230						
V-18	600	8"	3		200						
V-19	735	10"	2	10"	245						
V-20	735	10"	2	10"	245						
V-21	440	8"	2	8"	145						
V-22	420	8"	2		210		95				
V-23	250	6"	1		85		75				
V-24	310	6"	2		155		95				
V-25	635	8"	3		320						
V-26	635		3		320						
V-27	635		3		320						
V-28	445		2		150		75				
V-29	775	10"	3		255						
V-30	775	10"	3		255						
V-31	135	5"	1		50						
V-32	210	6"	1		105		95				
V-33	370	6"	3		125		75				
V-34	370	6"	3		125						
V-35	715	10"	3		235						
V-36	675	10"	3		225						
V-37	475	8"	2		160						
V-38	90	5"	1		50						
V-39	820	10"	3		270						
V-40	630	8"	3		210						
V-41	480	8"	2		160						
V-42	230	6"	1		75						
V-43	425	8"	2		140						
V-44	420		2		140						
V-45	570		--	--	190						
V-46	585		3	8"	195						
V-47	210	6"	1		70						
V-48	330	6"	2		110						
V-49	520	8"	3		170						
V-50	230	6"	1		75						
V-51	980	10"	4		325						
V-52	700	10"	--	--	230						
V-53				O M I T							
V-54				O M I T							
V-55	370	8"	2	8"	125						
V-56	410		2		135						
V-57	425		2		140						
V-58	475		2		170						
V-59	470		2		160						

FLEXIBLE DUCT DIA. SERVING VAV BOX SHALL BE SAME AS INLET DIA.

PUMPS

UNIT NO.	SERVICE	SIZE	PUMP GPM	FT. OF WATER HEAD	MOTOR HP	MOTOR RPM	SUPPORT	SUCTION DIFFUSER INLET SIZE	OUTLET SIZE	START-UP STRAINER
P-1	CHILLED WATER	8" X 6"	1360	100	60	1750	CONC. PAD	--	--	--
P-2	HOT WATER	3" X 2 1/2"	174	80	10	1750	CONC. PAD	4	3	YES
P-3	STAND BY P-2	3" X 2 1/2"	174	80	10	1750	CONC. PAD	4	3	YES

P-1 SIZED FOR FUTURE FLOW OF 1480 GPM. TRIM IMPELLER FOR CURRENT CONDITIONS.
P-2 & P-3 SIZED FOR FUTURE FLOW OF 210 GPM. TRIM IMPELLER FOR CURRENT CONDITIONS.

VANE-AXIAL FANS

UNIT NO.	SERVICE	CFM OF STD AIR	MAX. O.V.	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	FAN DIA.	SUPPORT	VIBRATION ISOLATORS TYPE	MIN. STATIC DEFLECTION
VA-1	RETURN AIR AC-1	6050	1100	1 1/4	3	V-BELT	30"	SUSP.	D	1"
VA-2	RETURN AIR AC-2	4000	1100		2		24"			
VA-3	RETURN AIR AC-3	6700	1200		3		30"			
VA-4	RETURN AIR AC-4	8200	1200		5		33"			

PROVIDE INLET VANES FOR VA-1 THRU VA-4

IN-LINE FANS

UNIT NO.	SERVICE	CFM OF STD AIR	MAX. O.V.	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	FAN DIA.	SUPPORT	VIBRATION ISOLATORS TYPE	MIN. STATIC DEFLECTION
IF-1	HOOD LAB 213	700	550	1/2"	1/4	V-BELT	9"	SUSP.	D	1"
IF-2	LAB. 214	500	400	3/8"	1/4	V-BELT	8"	SUSP.	D	1"

HEAT EXCHANGERS

UNIT NO.	SERVICE	SQ FT OF HEATING SURFACE	STEAM PRESS. PSIG	LIQUID TEMP. IN	LIQUID TEMP. OUT	GPM	SHELL DIA.	MAX. P.D. FT. WATER
HX-1	PROF. BLDG.	67	5	170	200	120	8"	2.0

SQ FT OF HEATING SURFACE INDICATED INCLUDES AN ADDITIONAL 25% FOULING FACTOR

CONVECTORS

UNIT NO.	CABINET SIZE D	L	H	ELEMENT SIZE	END POCKET SUP	RET	CAP. MBH	TYPE	RECESS	DAMPER	AIR VENT ASSEM.	BRANCH PIPE SIZE
C-1	4	38	24	4" X 38"	--	--	3.8	RGB	YES	NO	NO	3/4"

CAP. BASED ON 65°F E.A.T., 200°F E.W.T. AND 180°F L.W.T.

FIN PIPE RADIATION

UNIT NO.	ELEMENT SIZE	ELEMENT TYPE	FINS SIZE	FINS TYPE	BTU PER LIN. FT.	HGT. TOP OF CAB. TO FIN. FL.	CABINET DEPTH	CABINET HEIGHT	DAMPER
FP-1	3/4"	COPPER	3 1/4 X 3 1/4	ALUM.	840	14"	4"	10"	NO

CAP BASED ON 65°F E.A.T., 200 °F E.W.T. AND 180°F L.W.T.

PRESSURE REDUCING VALVE

NO.	LOCATION	SIZE	CAPACITY LBS/HR	INLET PRESS.	OUTLET PRESS.	BY-PASS SIZE	RELIEF VALVE CAP. LBS/HR	SIZE	SET PRESS.
PRV-1	RM. 64	1"	1825	100	5	3/4"	1700	4 X 3	10

CEILING EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD AIR	FAN DIA.	EXT. S.P. IN IN. WATER	MOTOR HP	MOTOR RPM	SOLID STATE SPEED CONTROLLER
CE-1	TOILET 276	155	4 3/4"	.125	1/50	1550	NO
CE-2	TOILET 265						
CE-3	TOILET 256						
CE-4	JAN. 233						
CE-5	MEN 205						
CE-6	WOMEN 211						
CE-7	WOMEN 46						
CE-8	MEN 47						
CE-9	MEN 19						
CE-10	WOMEN 21						
CE-11	JAN. 20						
CE-12	TOILET 63						

CONDENSATE PUMPS

UNIT NO.	TYPE	CAP. SQFT EDR	DISCH. PRESS. PSIG	PUMP GPM	RECEIVER SIZE	MOTOR HP	MOTOR RPM	SUPPORT
CP-1	DUPLEX	8000	40	9	23 GAL.	1	3500	CONC. PAD

UNIT HEATERS

UNIT NO.	TYPE	CAP. MBH	CFM OF STD AIR	MOTOR HP	MOTOR RPM	SPEEDS	DIFFUSER	BRANCH PIPE SIZE
UH-1	HORIZ.	115.3	2380	1/6	1100	1	HORIZ.&VERT.	1 1/4"
UH-2	HORIZ.	115.3	2380	1/6	1100	1	HORIZ.&VERT.	1 1/4"
UH-3	HORIZ.	115.3	2380	1/6	1100	1	HORIZ.&VERT.	1 1/4"
UH-4	HORIZ.	19.1	543	1/20	1550	1	HORIZ.&VERT.	3/4"

CAP. BASED ON 60°F E.A.T., 200 °F E.W.T. AND 180°F L.W.T.

CABINET HEATERS

UNIT NO.	TYPE	CAP. MBH	CFM OF STD AIR	MOTOR HP	DRIVE	SPEED	RECESS	BRANCH PIPE SIZE
CH-1	CR	21.8	200	1/60	DIRECT	3	YES	3/4"
CH-2	CR	21.8	200	1/60	DIRECT	3	YES	3/4"
CH-3	IW	21.8	200	1/60	DIRECT	3	NO	3/4"
CH-4	IW	21.8	200	1/60	DIRECT	3	NO	3/4"

CAP. BASED ON 60°F E.A.T., 200°F E.W.T. AND 180°F L.W.T.
RECESS DIM. TO BE FURN. TO GEN. CONTR. BY MECH. CONTR.

GENERAL NOTES:

-THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.

-RUN ALL PIPE AND DUCTWORK AS HIGH AS POSSIBLE. FURNISH AND INSTALL ALL DROPS, RISES AND OFFSETS AS REQUIRED TO AVOID CONFLICTS WITH ALL PIPING, CONDUIT, LIGHTING, STRUCTURE...ETC.. VENT ALL HIGH POINTS AND DRAIN ALL LOW POINTS OF PIPING.

-COORDINATE LOCATION OF DIFFUSERS AND VAV BOXES WITH FINAL LIGHTING LAYOUT.

DEMOLITION:

-MECHANICAL CONTRACTOR SHALL REMOVE ALL EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROLS UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

WISCONSIN
BERT THOMAS FREDERICKSEN
E-23249
MILWAUKEE, WIS.
PROFESSIONAL ENGINEER

BERT FREDERICKSEN, INC.
CONSULTING ENGINEER

M-1 THRU M-11

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)

#8971

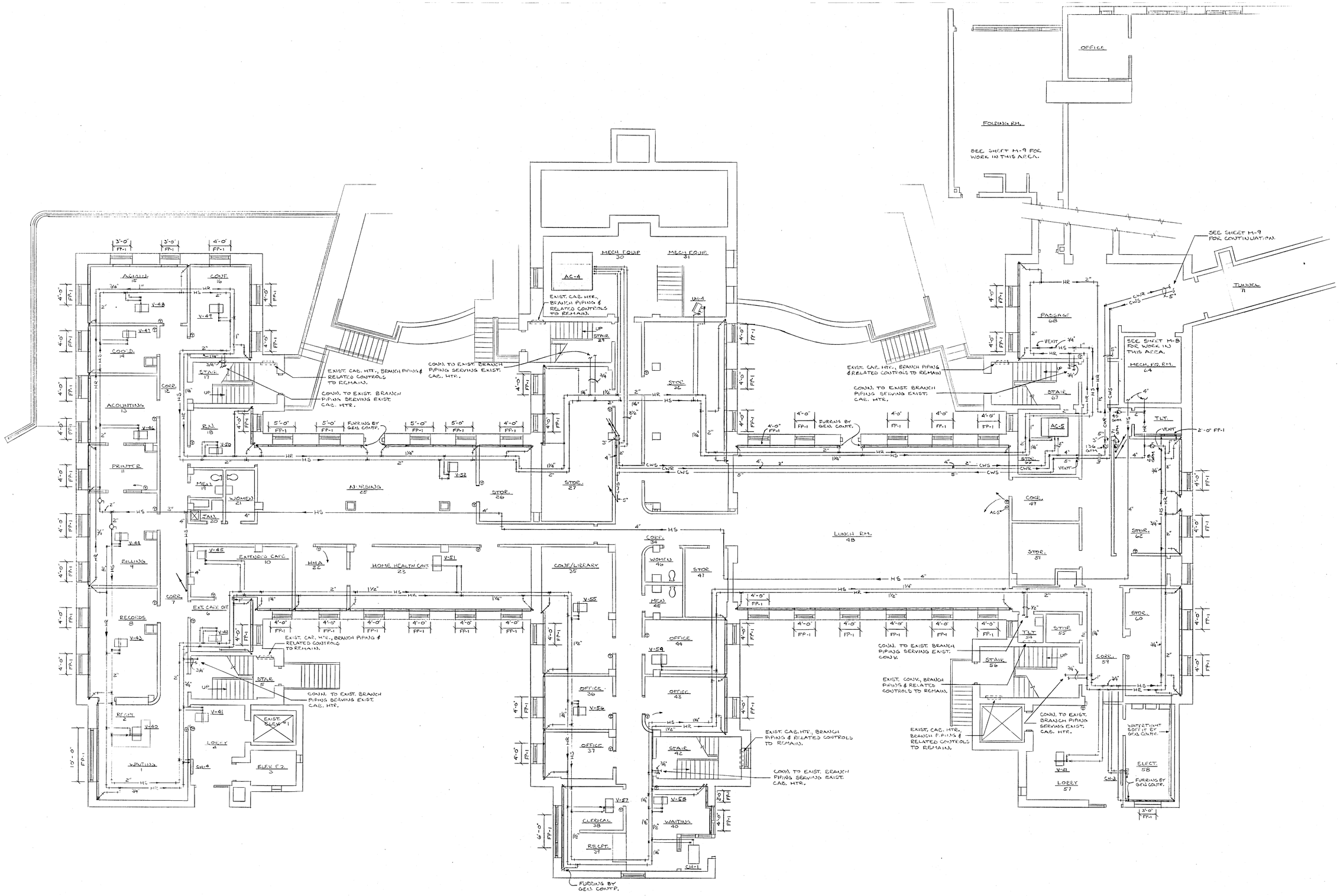
LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989
SHEET M 1
PROJ. NO. 8905



FIRST FLOOR PIPING PLAN
1/8" = 1'-0"

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

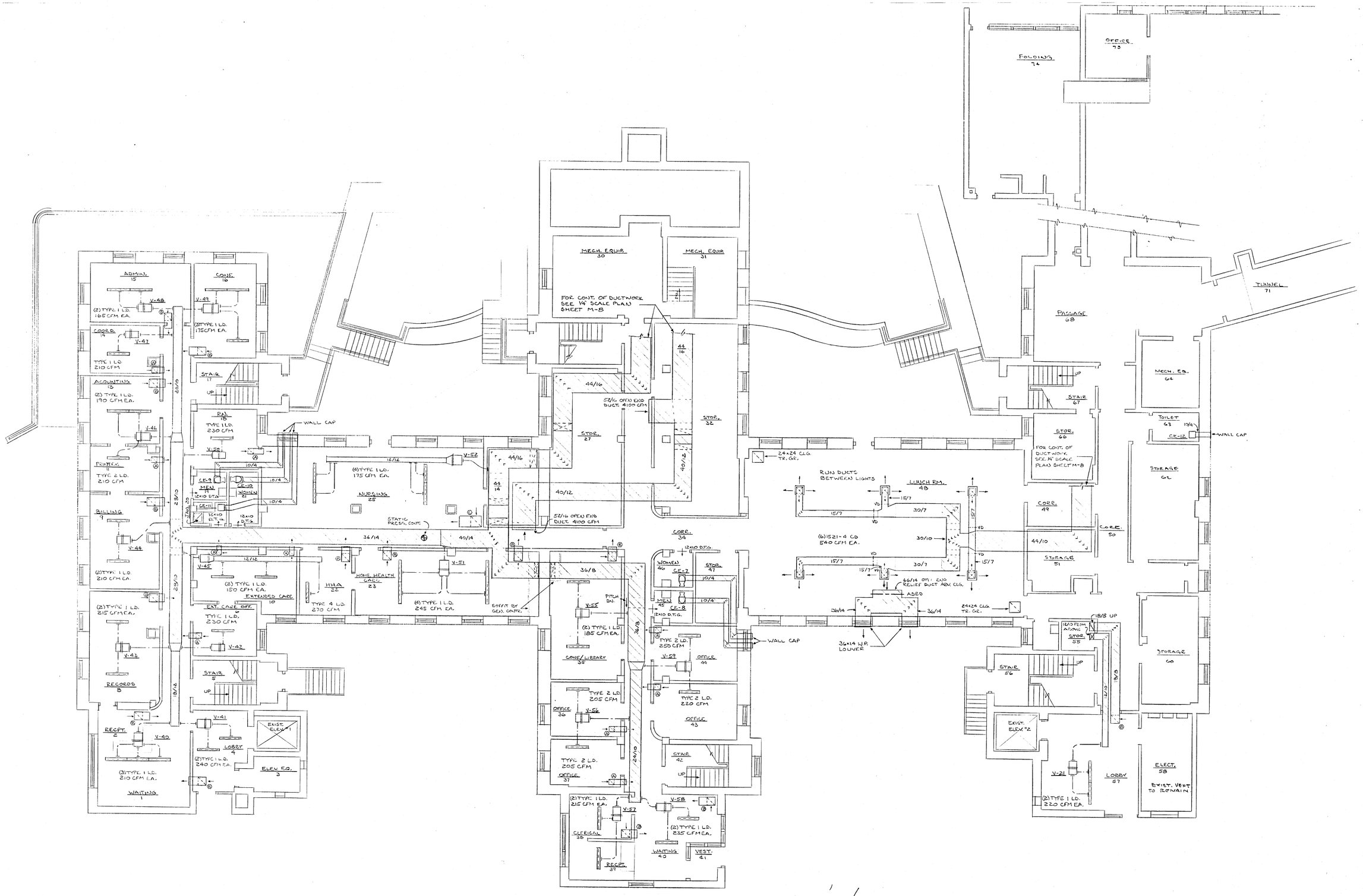
THIS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED FOR OTHER WORK OR PROJECT BY ANY OTHER PARTY WITHOUT WRITTEN CONSENT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-8168 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989
SHEET M 2

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)

PROJ. NO. 8905



FIRST FLOOR DUCTWORK PLAN

1/8" = 1'-0"

LAKEVIEW PROFESSIONAL PLAZA REMODELING

MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR ANY PURPOSE NOT AGREED TO IN WRITING BY THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS

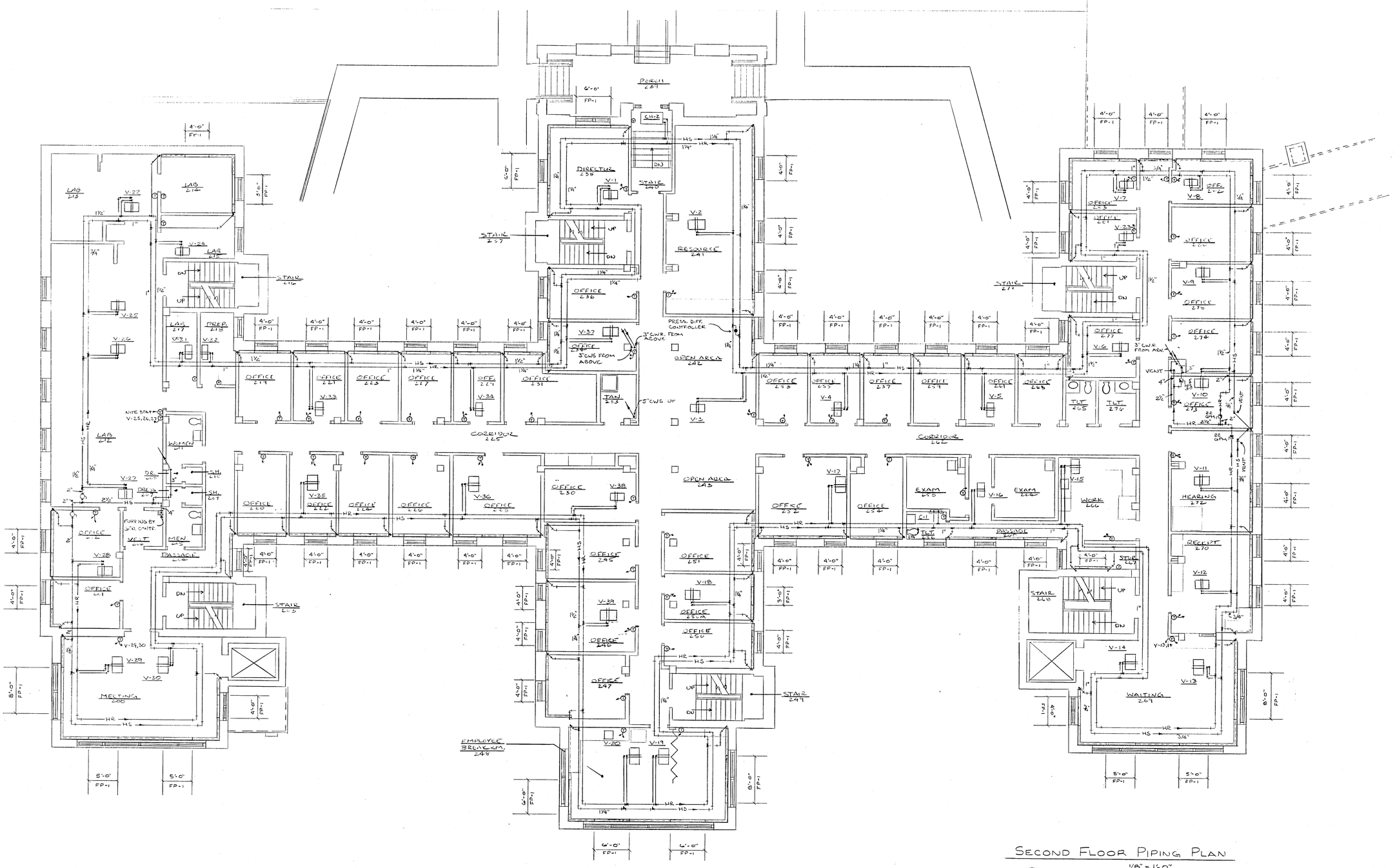
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301 (414) 437-5166

DATE SEPT. 1989

SHEET M 3

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)

PROJ. NO. 8905



SECOND FLOOR PIPING PLAN

1/8" = 1'-0"

N

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECTS, AND IS NOT TO BE USED OR REPRODUCED WITHOUT THE AGREEMENT WITH THE ARCHITECTS.

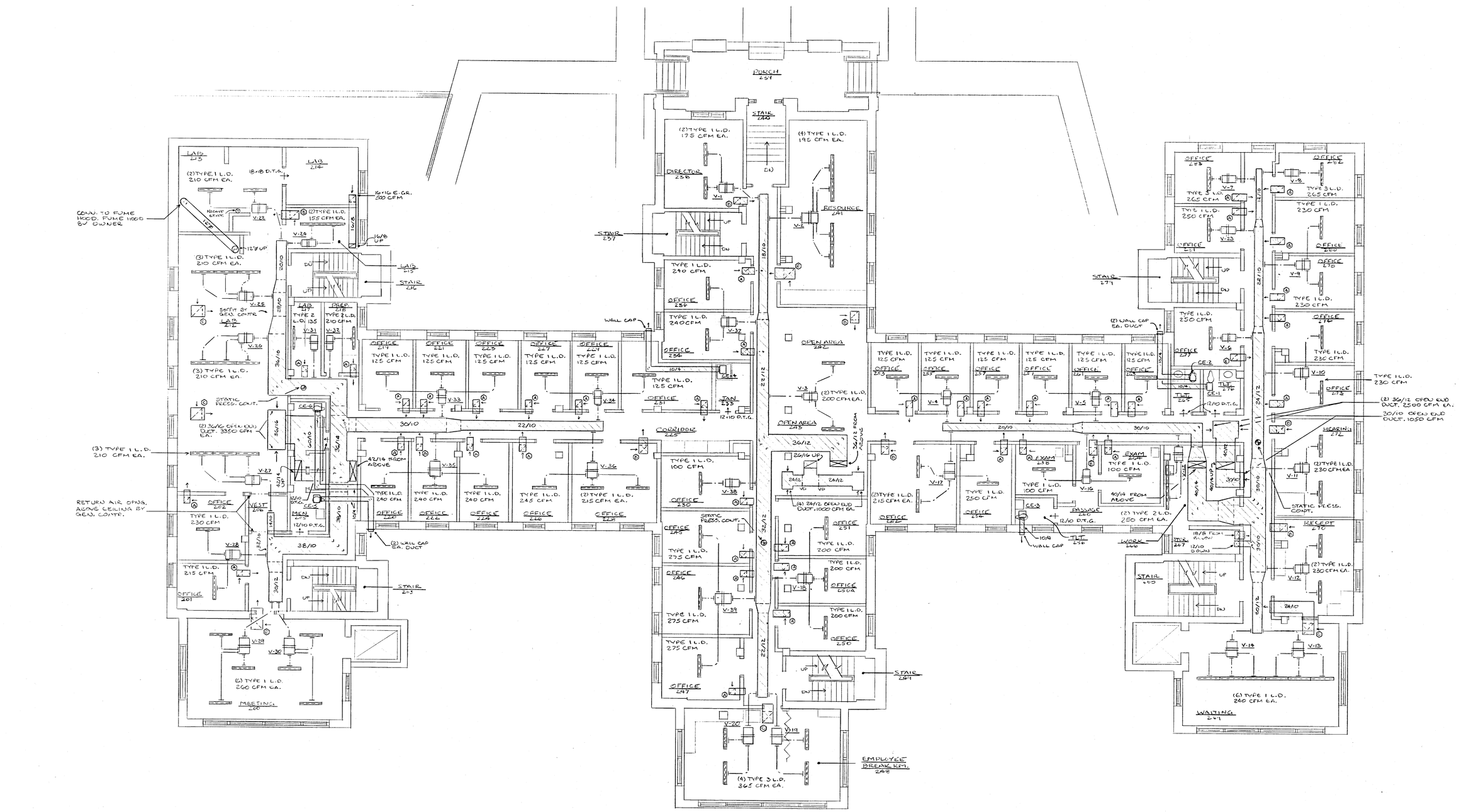
TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989

SHEET M 4

PROJ. NO. 8905

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)



SECOND FLOOR DUCTWORK PLAN

1/8" = 1'-0"

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR ANY PURPOSE NOT AGREED TO IN WRITING BY THE ARCHITECT.

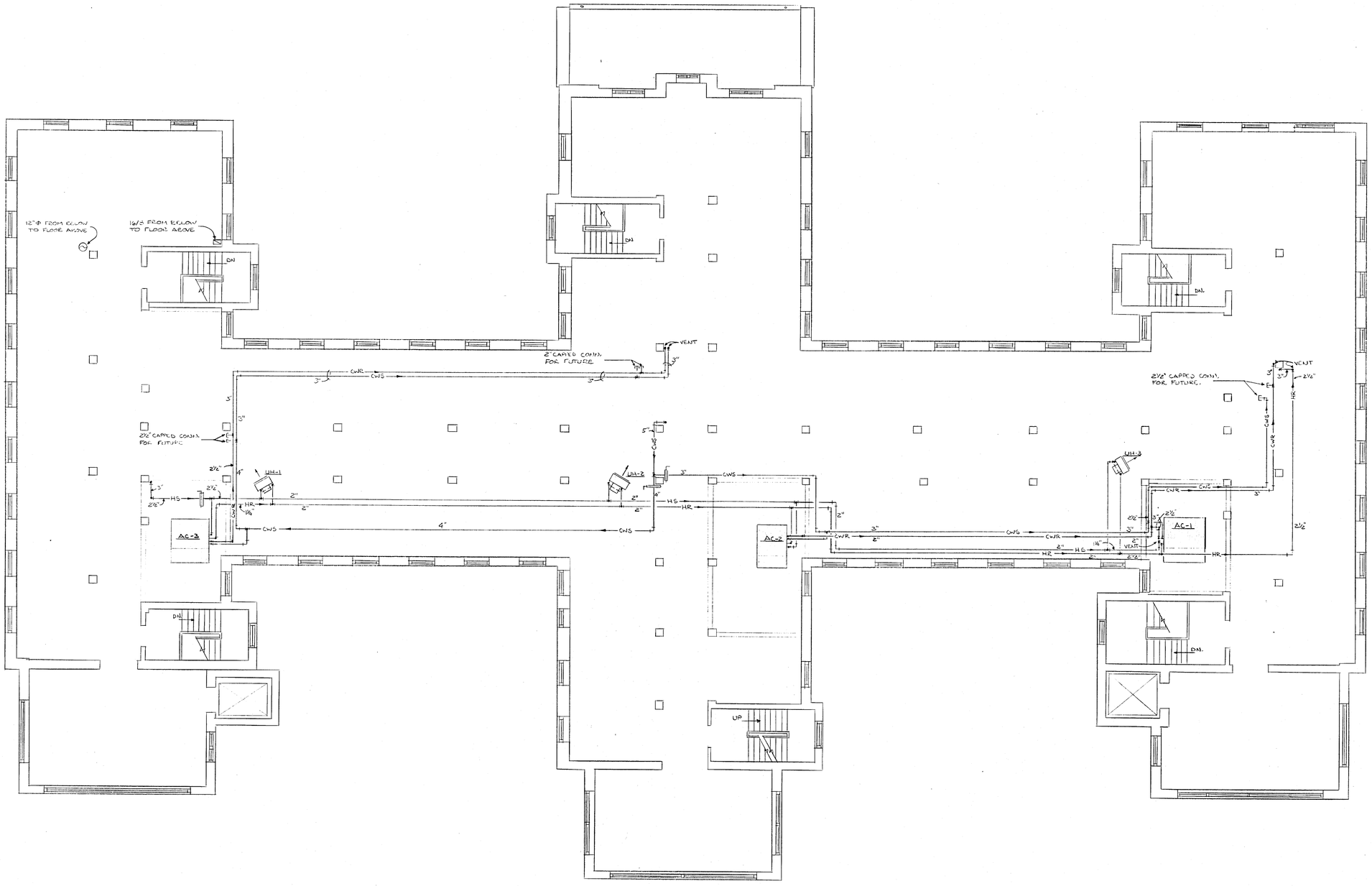
TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-5166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989

SHEET M 5

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)

PROJ. NO. 8905



THIRD FLOOR PLAN
1/8" = 1'-0"

N

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

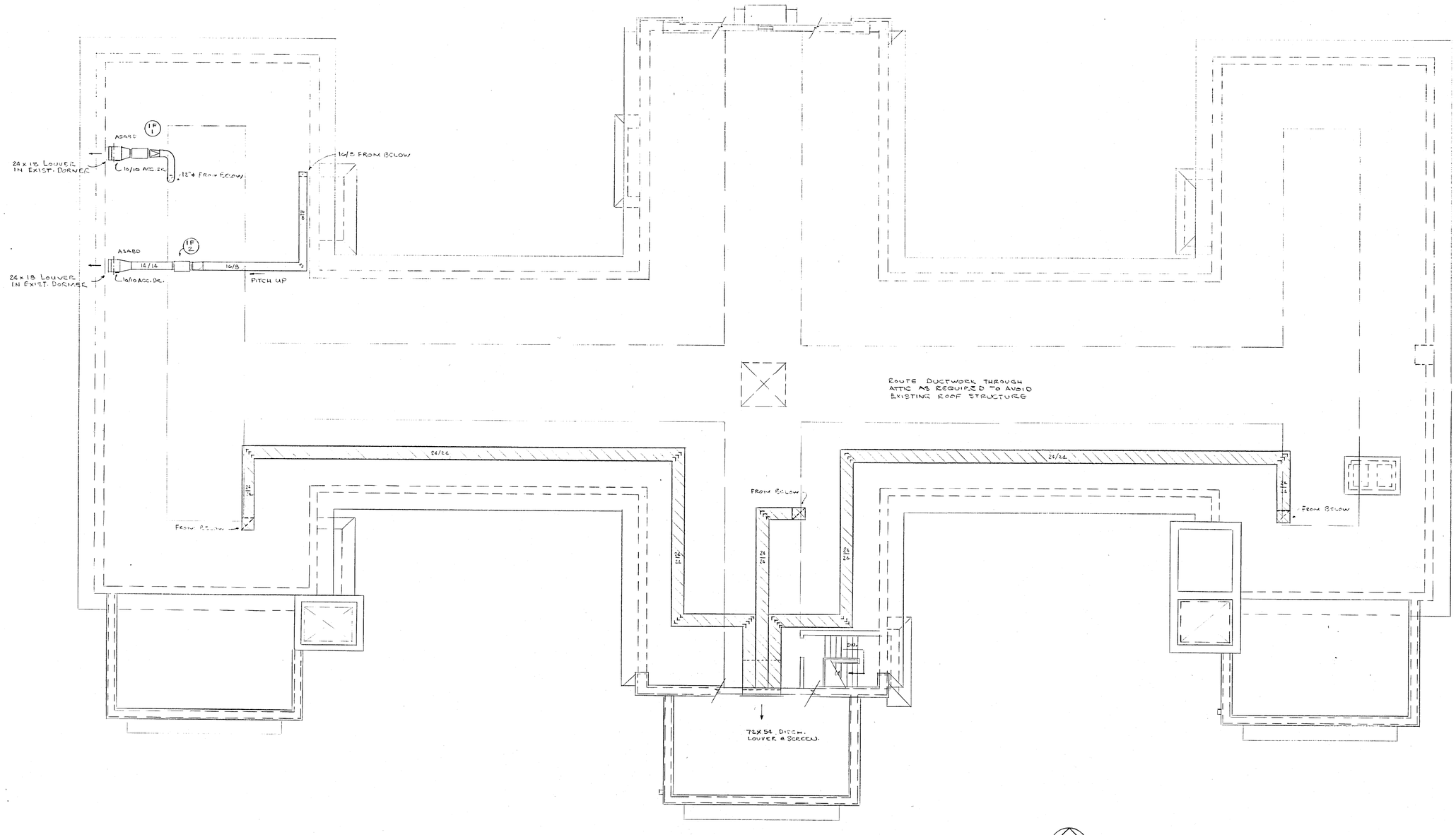
DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989
SHEET M 6
PROJ. NO. 8905

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)



PARTIAL ATTIC PLAN

SCALE 1/8" = 1'-0"

LAKEVIEW PROFESSIONAL PLAZA REMODELING

MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS

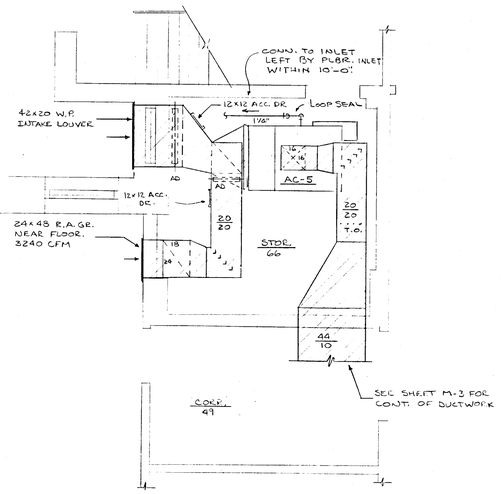
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT 1989

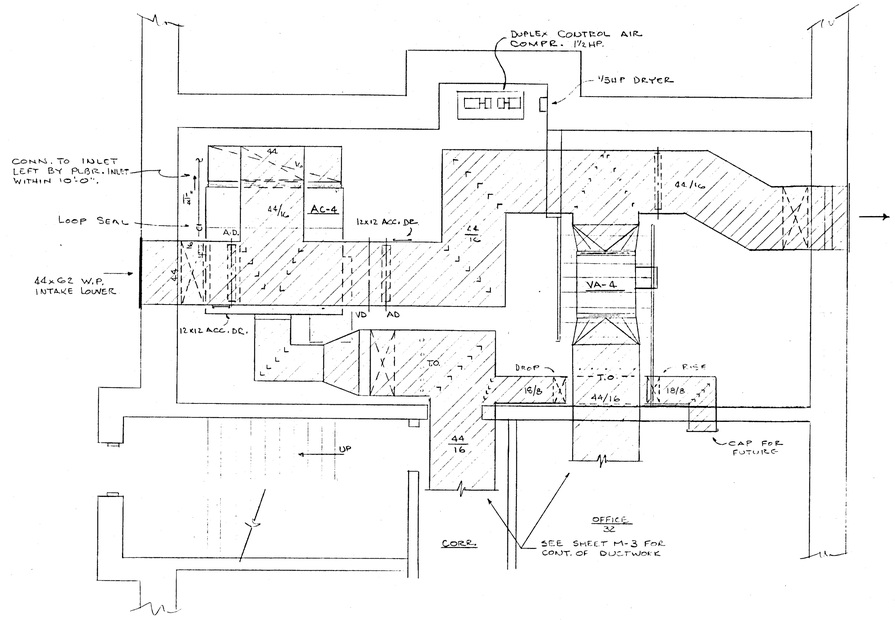
SHEET M 7

PROJ. NO. 8905

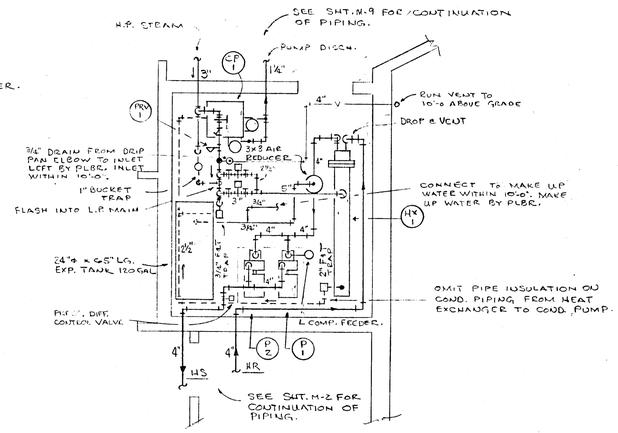
BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)



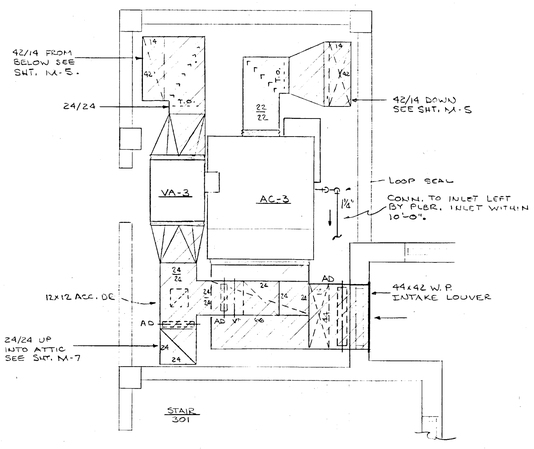
STORAGE RM. 66
1/4" = 1'-0"



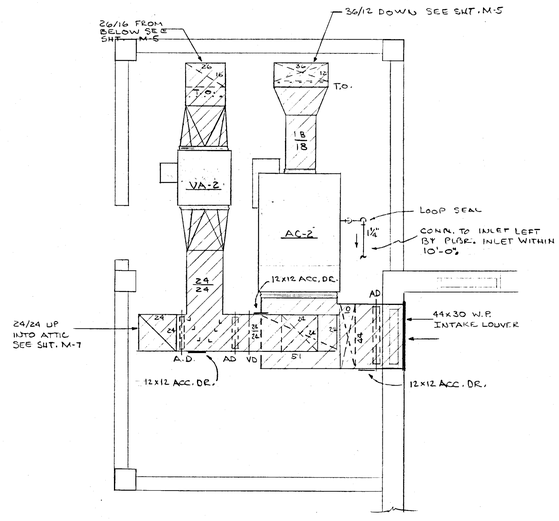
MECHANICAL EQUIPMENT RMS. 30 & 31
1/4" = 1'-0"



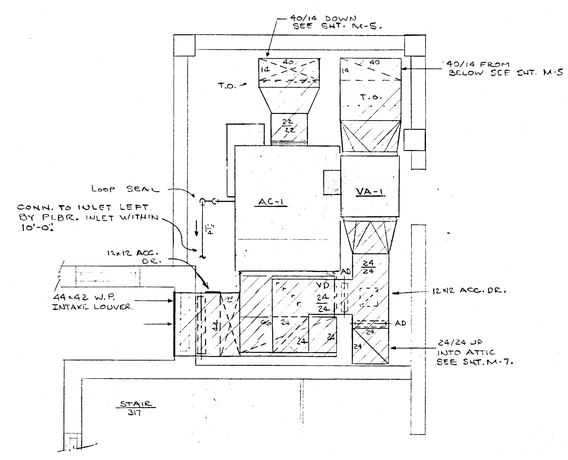
MECHANICAL EQUIPMENT RM. 64



WEST WING EQUIPMENT ROOM 310
1/4" = 1'-0"



CENTER WING EQUIPMENT ROOM 311
1/4" = 1'-0"



EAST WING EQUIPMENT ROOM 312
1/4" = 1'-0"

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

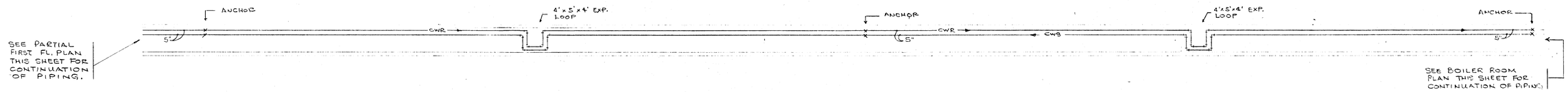
DRAWN | CHECKED

THIS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED OR REPRODUCED WITHOUT THE WRITTEN AGREEMENT WITH THE ARCHITECT.

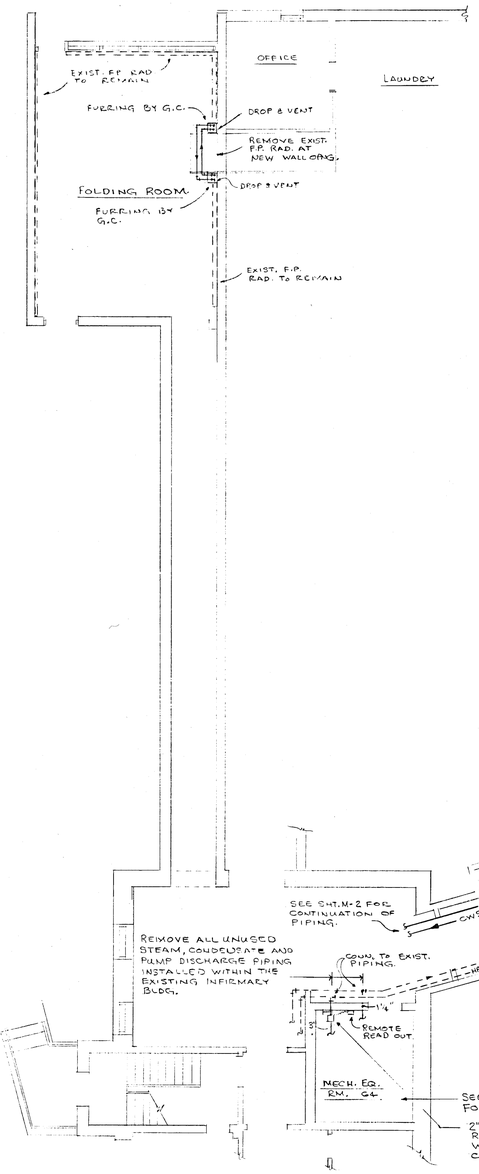
TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989
SHEET M 8
PROJ. NO. 8905

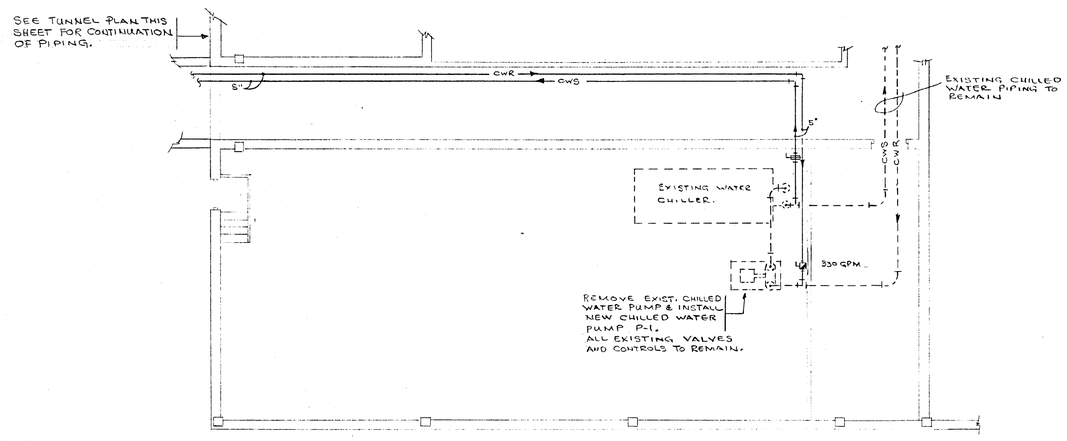
BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)



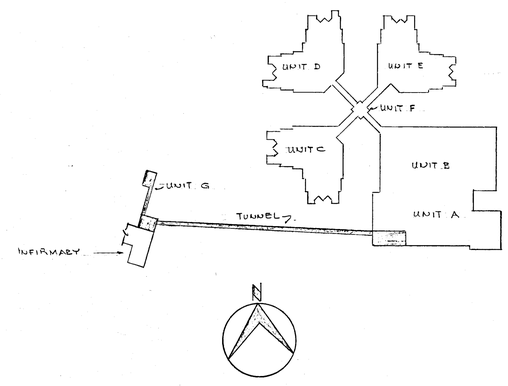
TUNNEL PLAN
SCALE 1/16" = 1'-0"



PARTIAL FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



EXISTING BOILER RM. PLAN (UNIT A)
SCALE 1/8" = 1'-0"



KEY PLAN

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT, AND IS NOT TO BE USED FOR ANY PURPOSE NOT AGREED TO IN WRITING BY THE ARCHITECT.

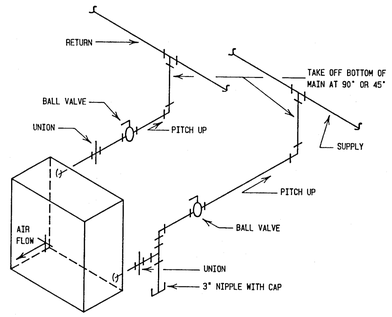
TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301
(414) 437-6166

DATE SEPT. 1989

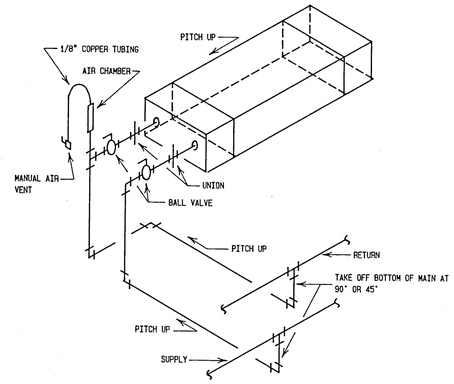
SHEET M 9

PROJ. NO. 8905

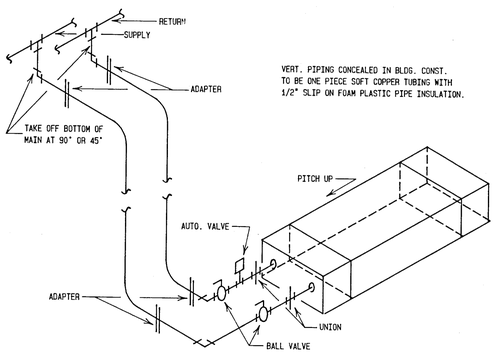
BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)



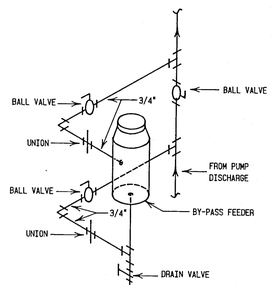
HOT WATER UNIT HEATER



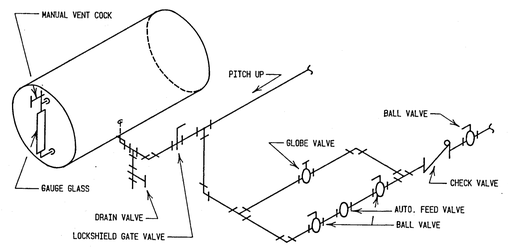
CEILING HUNG CABINET HEATER



DOWNFEED CABINET HEATER



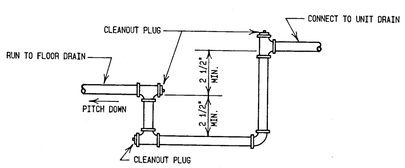
BY-PASS COMPOUND FEEDER



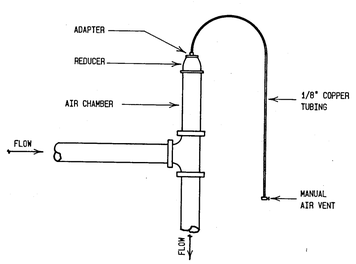
EXPANSION TANK

SYMBOLS

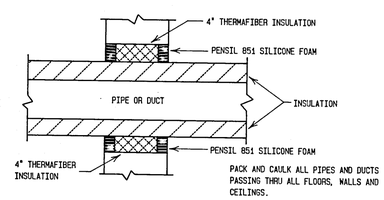
PD	PUMP DISCHARGE
HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
CS	CHILLED WATER SUPPLY
CR	CHILLED WATER RETURN
	FLEXIBLE DUCT
	AUTOMATIC VALVE
	GATE VALVE
	BUTTERFLY VALVE
	CIRCUIT SETTER
	BALL VALVE
	STRAINER
	THERMOMETER
	PITCH ARROW - DOWN
AD	AUTOMATIC DAMPER
VD	MANUAL VOLUME DAMPER
ASBD	ADJUSTABLE SELF-ACTING BACKDRAFT DAMPER
TO	TEST OPENINGS (MAX. 6" CENTERS)
	1" THICK ACOUSTICAL INSULATION LINING ON INSIDE OF DUCT. LISTED DIMENSION IS CLEAR INSIDE DIMENSION.
	TURNING VANES
	DEFLECTROL (ADJUSTABLE)
T	PNEUMATIC THERMOSTAT
T	LINE VOLTAGE ELECTRIC THERMOSTAT
F & T	FLOAT & THERMOSTATIC TRAP
	FLOW DIRECTION
A	12 X 12 CEILING TRANSFER GRILLE WITH 12/8 DUCT
B	18 X 18 CEILING TRANSFER GRILLE WITH 18/8 DUCT
C	24 X 24 CEILING TRANSFER GRILLE WITH 24/10 DUCT



LOOP SEAL



AIR VENT



PACK AND CAULK

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

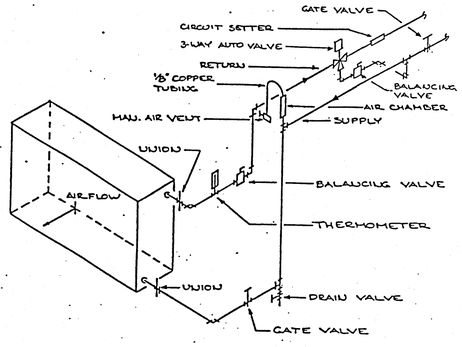
DRAWN | CHECKED

THIS DRAWING IS A PROPERTY OF THE ARCHITECT AND IS NOT TO BE REPRODUCED OR USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

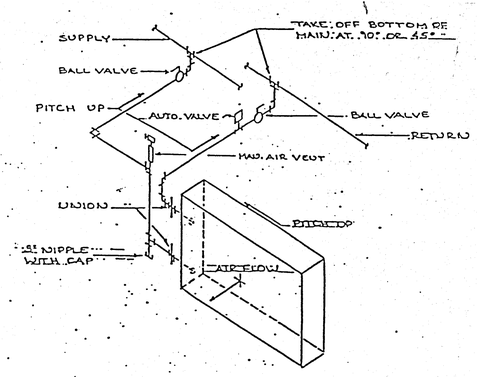
TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301 (414) 437-5166

DATE SEPT. 1989
SHEET M 10
PROJ. NO. 8905

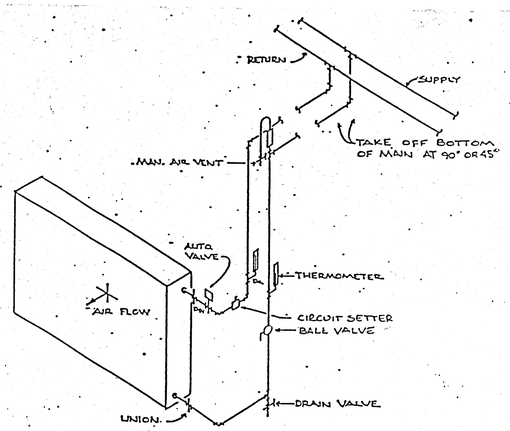
BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)



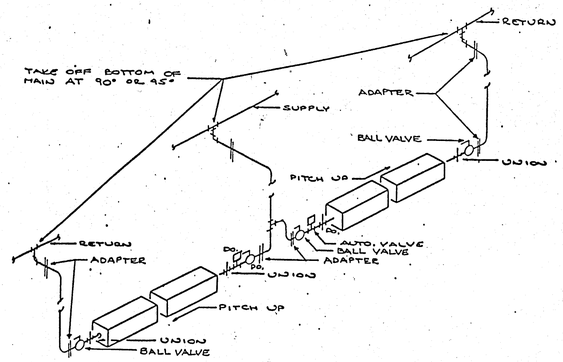
COOLING COILS



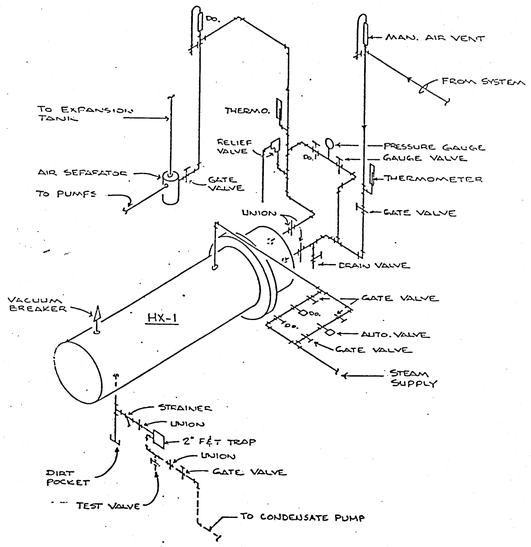
VARIABLE AIR VOLUME BOX



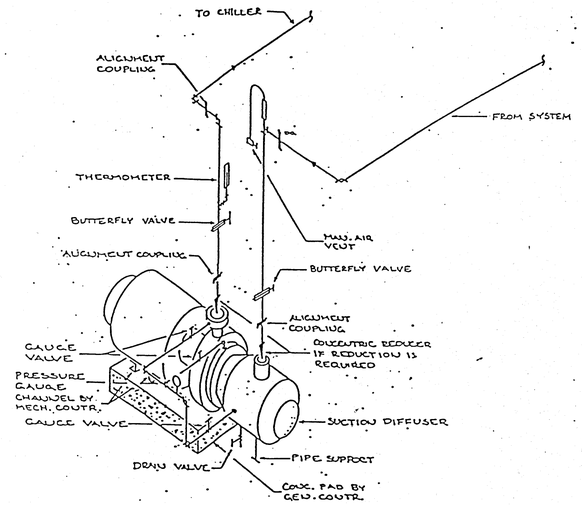
HOT WATER HEATING COIL



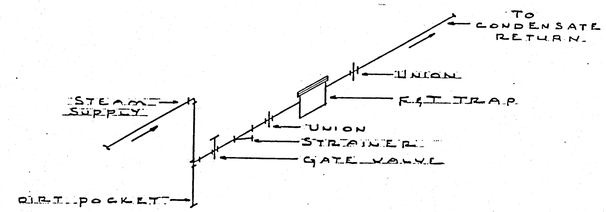
FIN PIPE RADIATION DOWNFEED



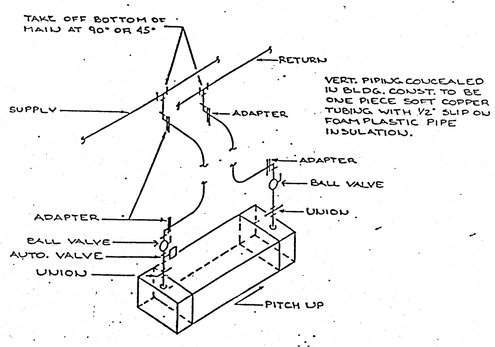
HEAT EXCHANGER



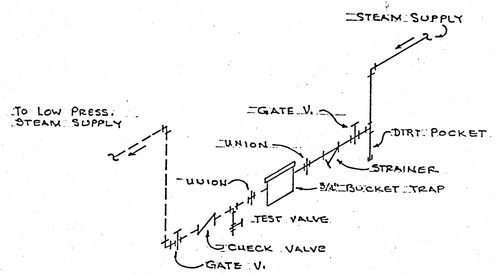
PUMP P-1



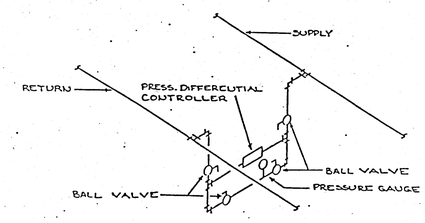
LOW PRESSURE DRIP FOR END OF MAIN



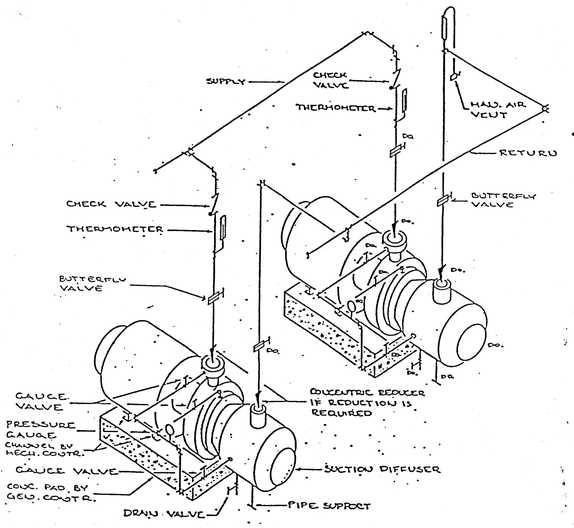
DOWNFEED HOT WATER CONVECTOR



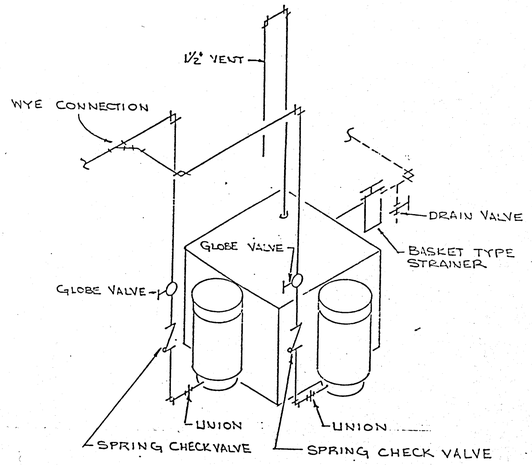
HIGH PRESSURE END OF MAIN DRIP



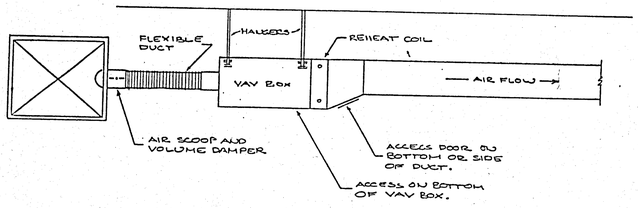
PRESSURE DIFFERENTIAL CONTROLLER PIPING



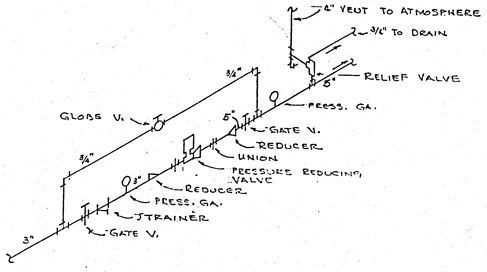
PUMPS P-2&3



DUPLEX CONDENSATE PUMP



VARIABLE VOLUME BOX DUCT CONNECTIONS



PRESSURE REDUCING VALVE STATION

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF BERT FREDERICKSEN, INC. IT IS TO BE USED ONLY FOR THE PROJECT SHOWN AND IN ACCORDANCE WITH THE AGREEMENT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301 (414) 437-6166

BERT FREDERICKSEN, INC.
CONSULTING ENGINEERS
3245 NORTH 124th STREET MILWAUKEE, WISCONSIN 53222
TELEPHONE 781-9070 (414)

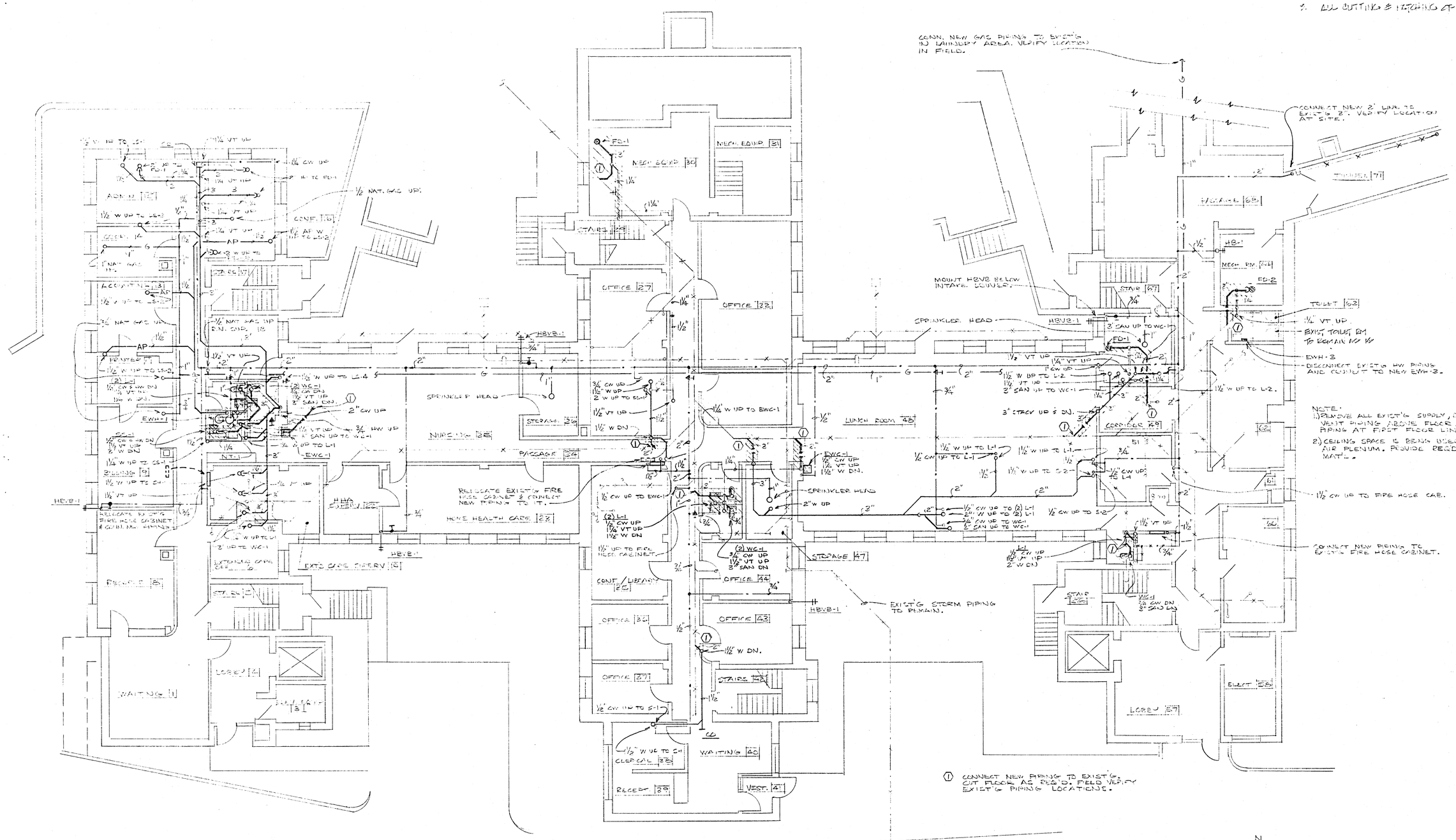
DATE SEPT. 1989

SHEET M 1.1

PROJ. NO. 8905

NOTES:

1. PLBG. CONTR. TO REVIEW PLAN SHEETS #1, 4, 15, & 16 FOR FIXTURE LOCATIONS. REMOVE ALL EXISTING FIXTURES, PIPING, ETC. UNLESS NOTED OTHERWISE.
2. CONTR. SHALL VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS.
3. ALL CUTTING & PATCHING OF FLOORS TO BE BY PLBG. CONTR.



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

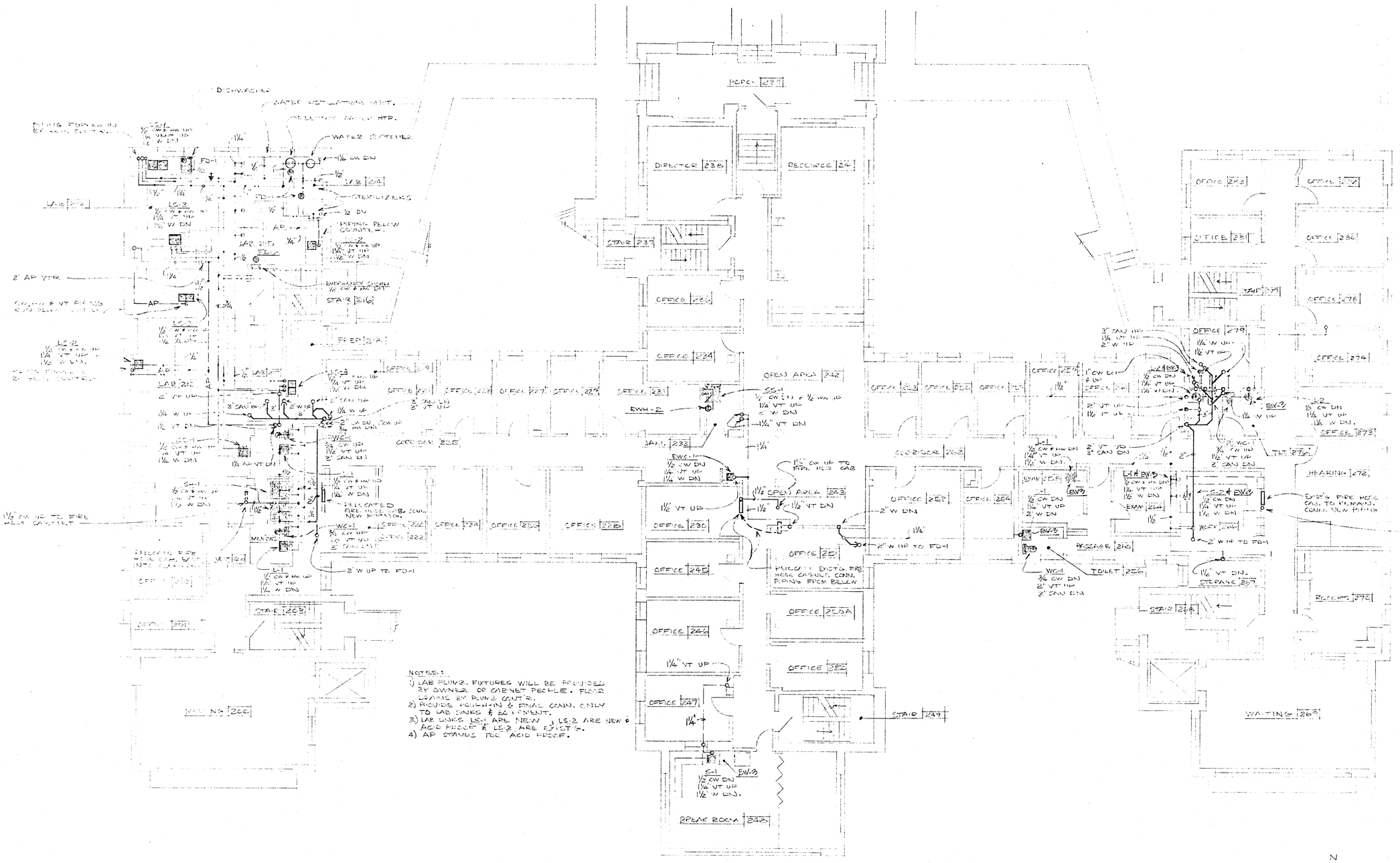
LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301 (414) 437-6166

DRAWN | CHECKED

THIS REVISION, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF THE ARCHITECT AND MAY BE USED ONLY FOR THE PROJECT AND PURPOSE AGREED TO BY THE ARCHITECT.

DATE SEPT. 1989
SHEET P 1
PROJ. NO. 8905



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

N

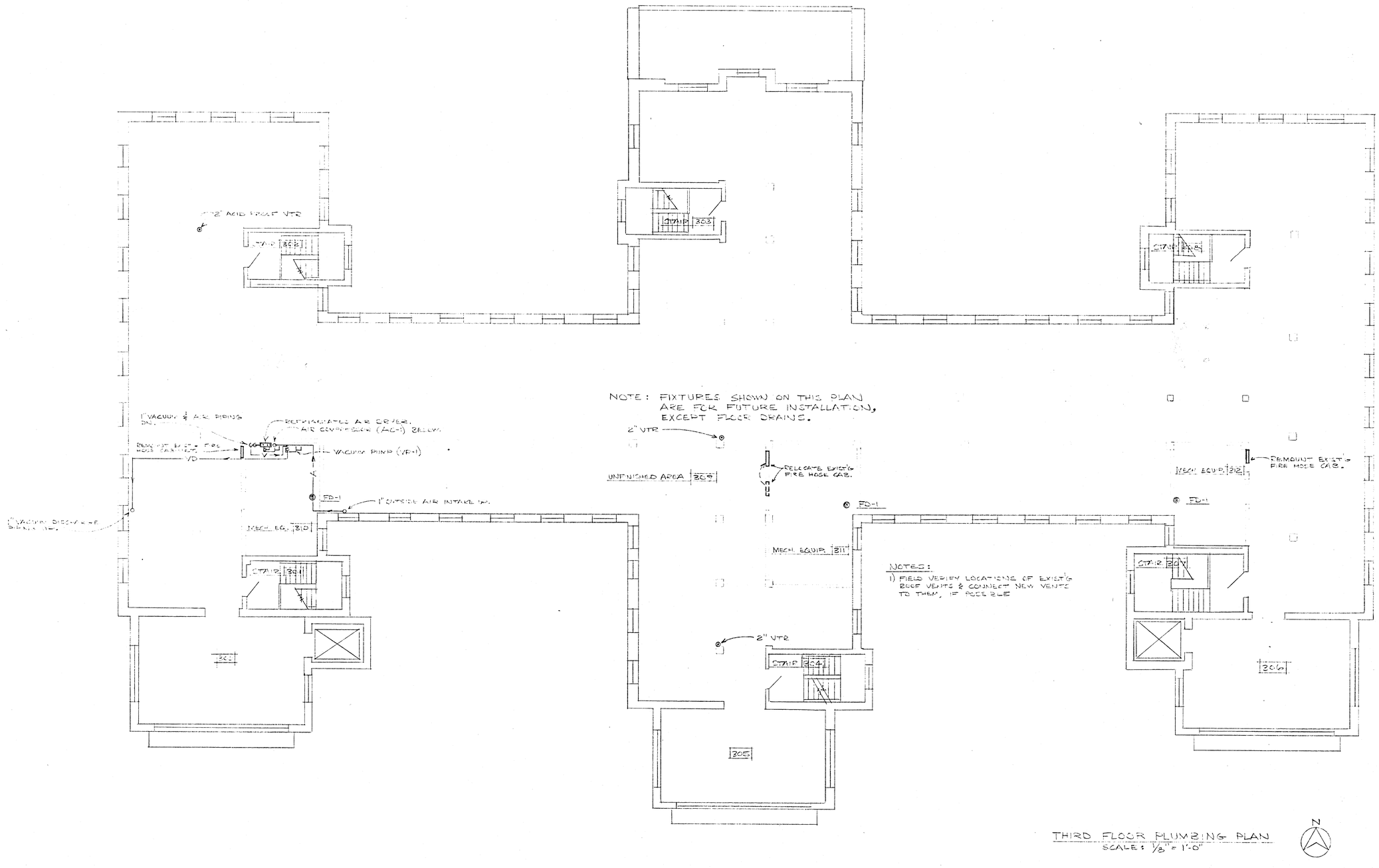
LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT. NO USE OR REPRODUCTION MAY BE MADE WITHOUT THE AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-4166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1989
SHEET P 2
PROJ. NO. 8905



THIRD FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

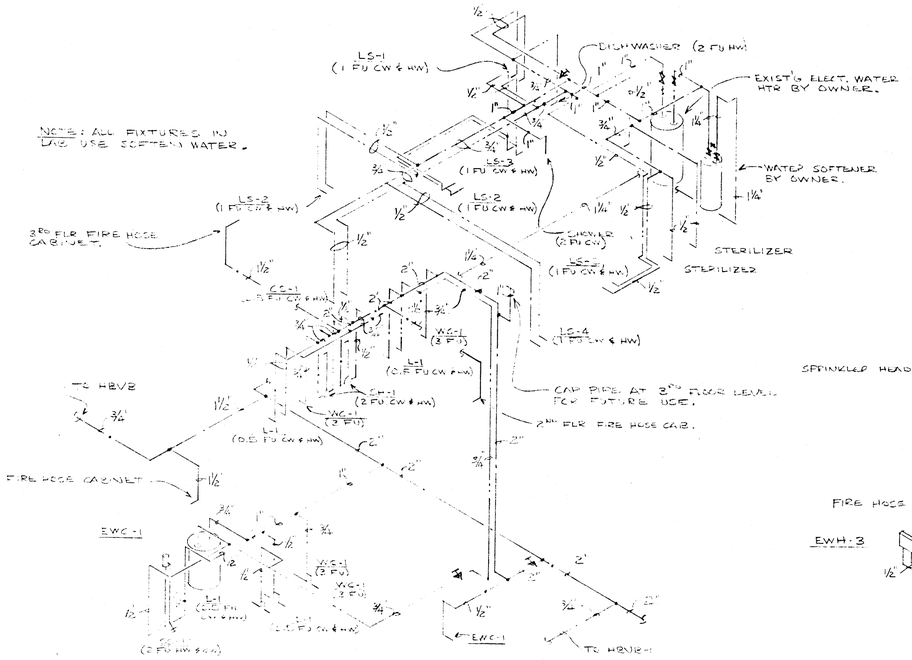
LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

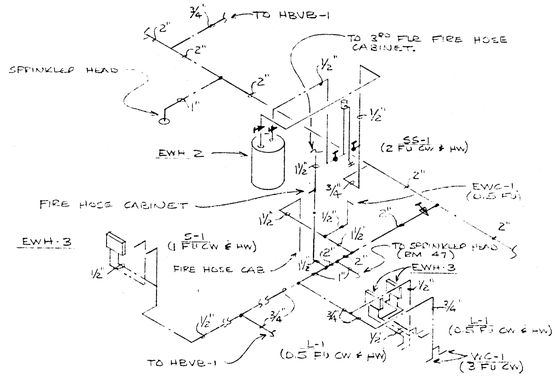
THIS DRAWING, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF TILLEMAN ASSOCIATES, INC., AND MAY BE USED ONLY IN ACCORDANCE WITH THE AGREEMENT WITH THE ARCHITECT

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

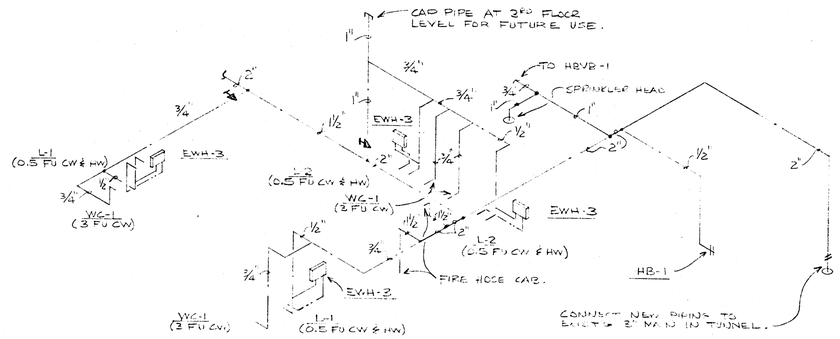
DATE SEPT. 1989
SHEET P 3
PROJ. NO. 8905



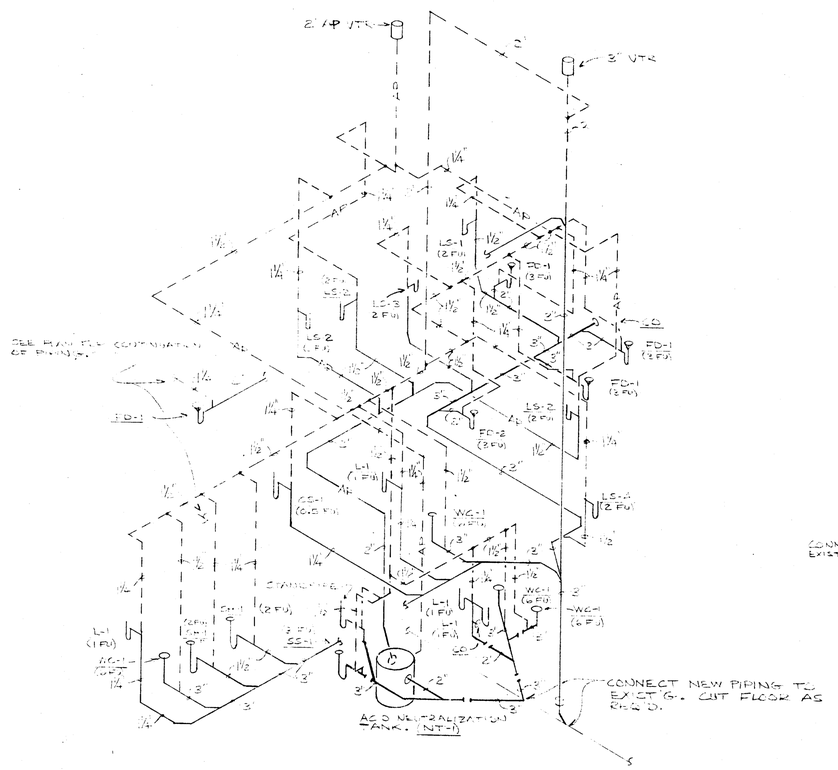
WATER SERVICE ISOMETRIC - WEST WING
NO SCALE



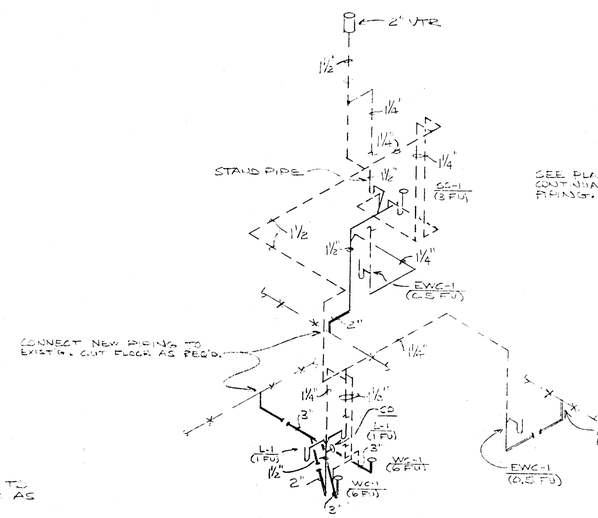
WATER SERVICE ISOMETRIC - CENTER WING
NO SCALE



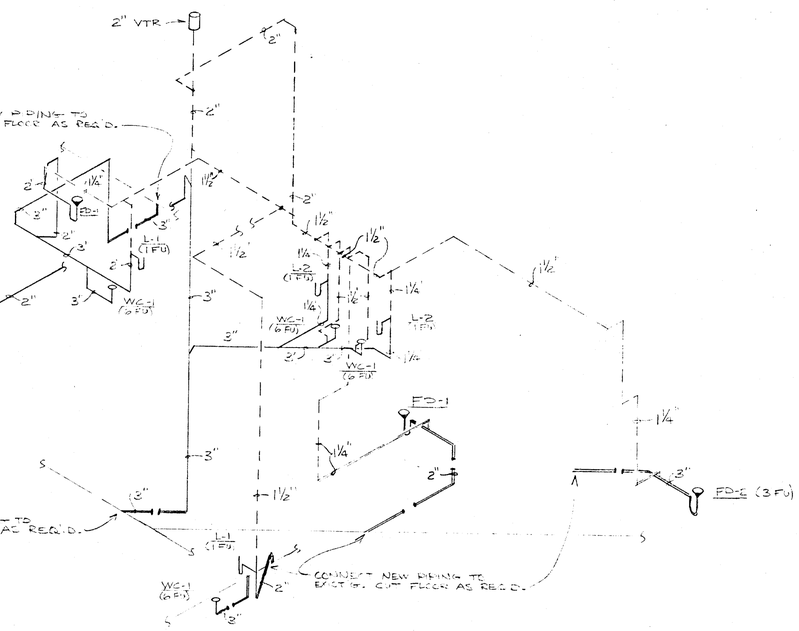
WATER SERVICE ISOMETRIC - EAST WING
NO SCALE



SOIL, WASTE & VENT ISOMETRIC - WEST WING
NO SCALE



SOIL, WASTE & VENT PIPING - CENTER WING
NO SCALE



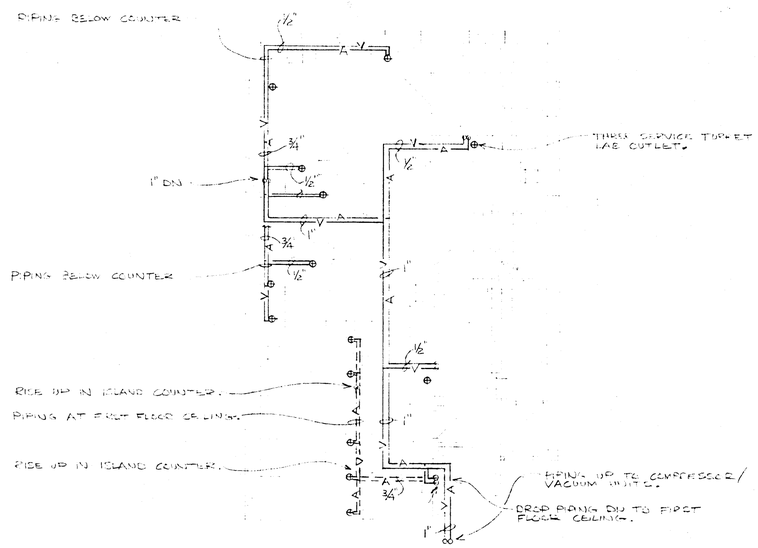
SOIL, WASTE & VENT PIPING - EAST WING
NO SCALE

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

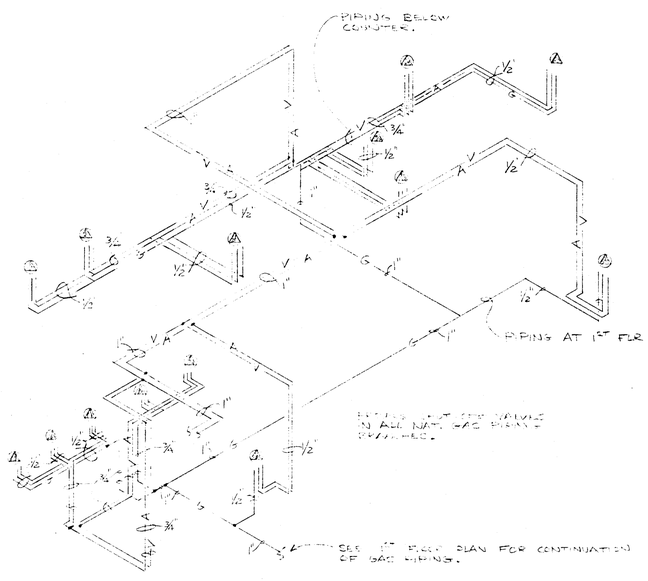
TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301 (414) 437-5166

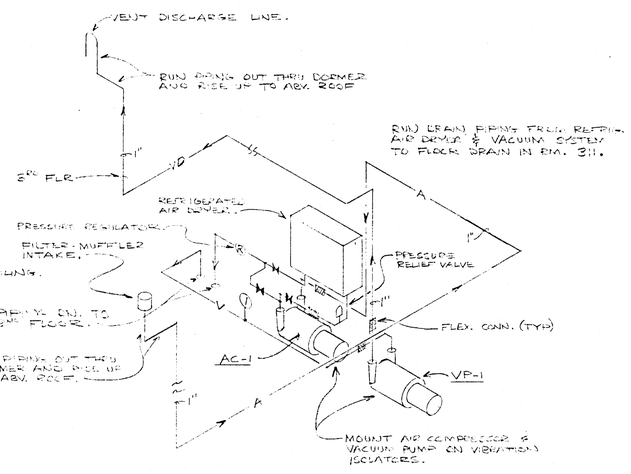
DRAWN
CHECKED
THIS DRAWING, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION WITHOUT PERMISSION IS PROHIBITED.

DATE SEPT. 1989
SHEET P 4
PROJ. NO. 8905



PARTIAL SECOND FLOOR PLAN - WEST WING
(MEDICAL GAS)
SCALE 1/8" = 1'-0"

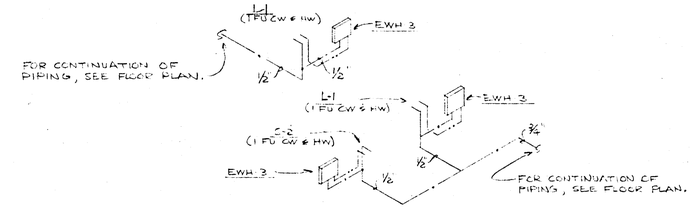




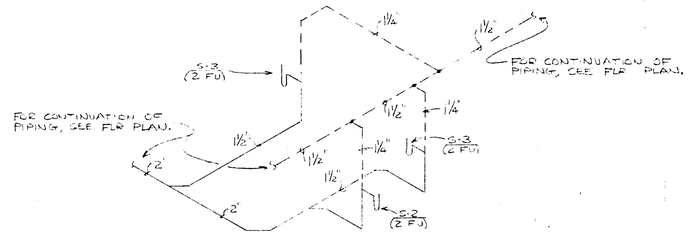
MEDICAL AIR COMPRESSOR / VACUUM PUMP ISOMETRIC
NO SCALE

Ⓐ - THREE SERVICE TURRET W/ SAFETY CHAMBER & TOP OUTLET. WATER SAVER FAUCET CO. SERIES 80-68-A TURRET W/ (3) L-2900 LAB. GROUND KEY HOSE COCKS.

MEDICAL GAS PIPING ISOMETRIC
NO SCALE



WATER SERVICE ISOMETRIC - RMS. 258, 264 & 266
NO SCALE



SANITARY, WASTE & VENT ISOMETRIC - RMS. 258, 264 & 266.
NO SCALE

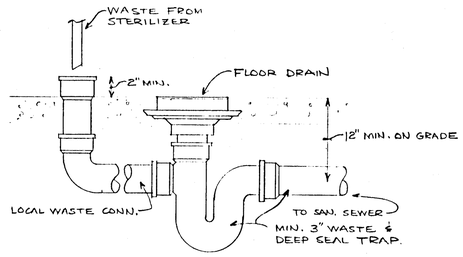
LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

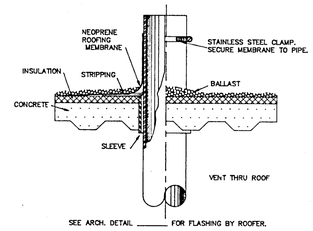
THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE USED FOR OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE (414) 437-6166 GREEN BAY, WISCONSIN 54301

DATE SEPT. 1987
SHEET P 5
PROJ. NO. 8905



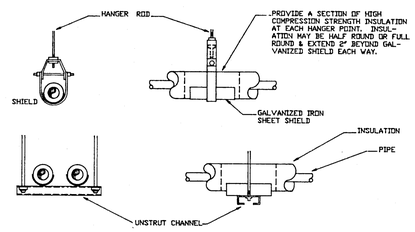
STERILIZER WASTE & FLOOR DRAIN
NO SCALE



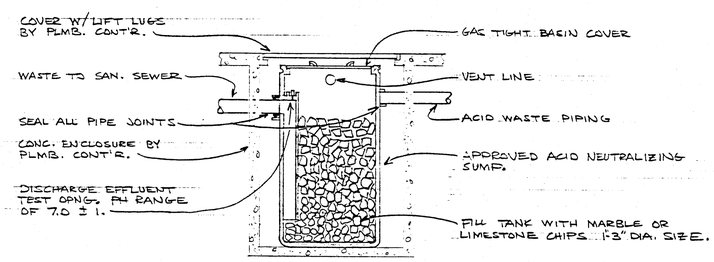
VENT THRU ROOF NTS

PIPE SUPPORT SCHEDULE

PIPE SIZE INCHES	SPACING IN FEET STEEL	SPACING IN FEET COPPER	HANGER ROD SIZE - INCHES
1/2"	5	5	3/8"
3/4"	6		3/8"
1"	7		3/8"
1 1/4"	8		3/8"
1 1/2"	9		3/8"
2"	10		3/8"
2 1/2"	11		1/2"
3"	12		1/2"
4"	12		5/8"
5"	12		5/8"



WATER PIPE HANGER N.T.S.



ACID NEUTRALIZING TANK DETAIL
NO SCALE

PLUMBING SYMBOLS (NOT ALL APPLY)

SYMBOL	ABBR.	DESCRIPTION	REMARKS
	SAN. S.	SANITARY SEWER BELOW GRADE OR FLOOR	
	SAN S.	SANITARY SEWER ABOVE GRADE OF FLOOR	
	STM. S.	STORM SEWER BELOW GRADE OR FLOOR	
	V.	VENT PIPE BELOW GRADE OF FLOOR	
	V.	VENT PIPE ABOVE FLOOR	
	COND.	CONDUCTOR ABOVE GRADE	
CL	CL.	CLEAR WATER WASTE ABOVE GRADE	W/ 1/2" ARMAFLEX INSUL.
CL	CL.	CLEAR WATER VENT ABOVE GRADE	
	CW.	COLD WATER	W/ 1/2" FIBERGLASS INSUL.
S	CWS.	COLD WATER - SOFT	W/ 1/2" FIBERGLASS INSUL.
	HW.	HOT WATER	W/ 1/2" FIBERGLASS INSUL.
	HWR.	HOT WATER CIRCULATING RETURN	W/ 1/2" FIBERGLASS INSUL.
G.	G.	GAS	
A.	A.	AIR	
X X		EXISTING PIPING	
		CUT & PATCH EXIST. FLR.	
	G.V. OR BL V	GATE VALVE OR BALL VALVE	
	GL V.	GLOBE VALVE	
	CH. V.	CHECK VALVE	
	S.	STRAINER	
	B.C.	BALANCING COCK	
	C.V.	AUTOMATIC CONTROL VALVE	
G	P.G.	PRESS. GA. W/ COIL SYPHON & T-HANDLE GA. COCK.	
T	T.	THERMOMETER WITH SEPARABLE SOCKET	0-100 PSI RANGE, 3 1/2" DIAL 30-240 F. RANGE, 7"CASE
	P&T R.V.	PRESS. &/OR TEMPERATURE RELIEF VALVE	
	B.F.P.	PUMP WITH REDUCER & INCREASER	
HVBV	H.V.B.V.	BACK FLOW PREVENTER	
	UNION	HOSE BIBB VACUUM BREAKER	
		UNION	
	F.D.	FLOOR DRAIN	
	R.D.	ROOF DRAIN	
	H.D. OR O.S.D.	HUB DRAIN OR OPEN SITE DRAIN	
	EL.	ELEVATION, FLOOR, OR GRADE	
		EQUIP. BY OTHERS	
C.O.	C.O.	WALL CLEANOUT	
F.C.O.	F.C.O.	FLOOR CLEANOUT	
	F.	FUTURE	
	"E"	ELEVATION	
	I.E.	INVERT ELEV.	
	A.F.F.	ABOVE FINISHED FLOOR	
	S.S.	SOIL STACK	
	V.S.	VENT STACK	
	MH.	MANHOLE	
	CB.	CATCH BASIN	
	AD.	ACCESS DOOR	
	P.C.	PLBG. CONTR.	
	H.C.	HTG. CONTR.	
	E.C.	ELECT. CONTR.	
	U.O.N.	UNLESS OTHERWISE NOTED	
	N.I.C.	NOT IN CONTRACT	

EQUIPMENT SCHEDULE

TAG	MNFG	MODEL	DESCRIPTION	REMARKS
EWH-1	A.O. SMITH	EDLJ-20	20 GAL. TANK, 4.5 KW, 208/1PH, DOUBLE ELEMENT- NON-SIMULTANEOUS 20.5 GPH AT 90° F. RISE RECOVERY.	
EWH-2	A.O. SMITH	ELJF-6	6 GAL TANK, 1.5 KW, 208/1PH, SINGLE ELEMENT, 6.8 GPH AT 90° F. RISE RECOVERY.	
EWH-3	CONTROLLED ENERGY CORP.	POWER STREAM	7.1 KW, 208V/1PH, INSTANTANEOUS HEATER, 0.75 GPM AT 64° F. RISE.	
NT-1	ENFIELD	T0015	ACID NEUTRALIZING SUMP, 15 GAL. CAPACITY, 2" INLET & OUTLET, 1 1/2 VENT, 18" DIA. X 15" HIGH, HIGH DENSITY POLYENTHYLENE CONSTRUCTION.	
AC-1	BUSCH	DC0025	MEDICAL AIR COMPRESSOR, 10 CFM @ 15 PSIG, 1.7 KW MOTOR, 208V/3PH/ 60 HZ, 1800 RPM	
VP-1	BUSCH	DC0025	VACUUM PUPMP, 10 CFM @ 15" HG VACUUM, 1.7 KW MOTOR, 208V/3PH/ 60 HZ, 1800 RPM.	
-	ZURN	RF10	REFRIGERATED AIR DRYER, 10 SCFM @ 38 F. DEW POINT, 1.6 HP, 115 V./ 1PH./60 HZ, 3600 RPM.	

LAKEVIEW PROFESSIONAL PLAZA REMODELING
MARATHON COUNTY WAUSAU, WISCONSIN

DRAWN | CHECKED

TILLEMAN ASSOCIATES, INC., ARCHITECTS
119 SOUTH WEBSTER AVENUE GREEN BAY, WISCONSIN 54301 (414) 437-8186

DATE SEPT. 1989
SHEET P 6
PROJ. NO. 8705