

HVAC LEGEND

- 8" EXISTING RECTANGULAR DUCTWORK
- 8" EXISTING ROUND DUCTWORK AND SIZE
- 8" NEW ROUND DUCTWORK AND SIZE
- 8" EXISTING FLEXIBLE DUCTWORK AND SIZE
- 8" NEW FLEXIBLE DUCTWORK AND SIZE
- ⊖ DENOTES ITEM TO BE REMOVED
- ⊕ THERMOSTAT
- ③ DRAWING NOTE SYMBOL AND NUMBER
- 1" U.C. 1" UNDERCUT DOOR (BY G.C.)
- ⊕ CONNECT NEW TO EXISTING
- 'N' DENOTES NEW ITEM
- 'D' DENOTES ITEM TO BE REMOVED
- 'E' DENOTES EXISTING ITEM TO REMAIN
- 'R' DENOTES RELOCATED ITEM
- ⊗ 2' x 2' CEILING DIFFUSER
- ⊗ 2' x 1' EGGRATE RETURN GRILLE
- ⊗ EXHAUST GRILLE
- CD-8 200 CEILING DIFFUSER, NECK SIZE, AND CFM
- RG-24x12 RETURN GRILLE AND FACE SIZE
- EG-12x12 EXHAUST GRILLE, FACE SIZE, AND CFM

NOTE: HVAC CONTRACTOR SHALL VERIFY THE OUTSIDE AIR PERCENTAGE ON THE EXISTING AIR HANDLING UNIT. THE MINIMUM ALLOWABLE PERCENTAGE SHALL BE 10% DURING OCCUPIED HOURS. THE HVAC CONTRACTOR SHALL MAKE ADJUSTMENTS TO RETURN AND OUTSIDE AIR DAMPERS AS REQUIRED TO PROVIDE THE SCHEDULED QUANTITIES OF AIR.

SMOKE DETECTOR - EXISTING

EXISTING SMOKE DETECTOR (RATED FOR USE IN HVAC DUCTWORK) INSTALLED IN RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS AND OUTDOOR AIR CONNECTIONS IN ACCORDANCE WITH SECTION 606.2.1, 2017 OBC - MECHANICAL CODE. UPON ACTIVATION, THE SMOKE DETECTOR SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM. SUPERVISION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 606.4.1, 2017 OBC - MECHANICAL CODE.

RETURN AIR PLENUM

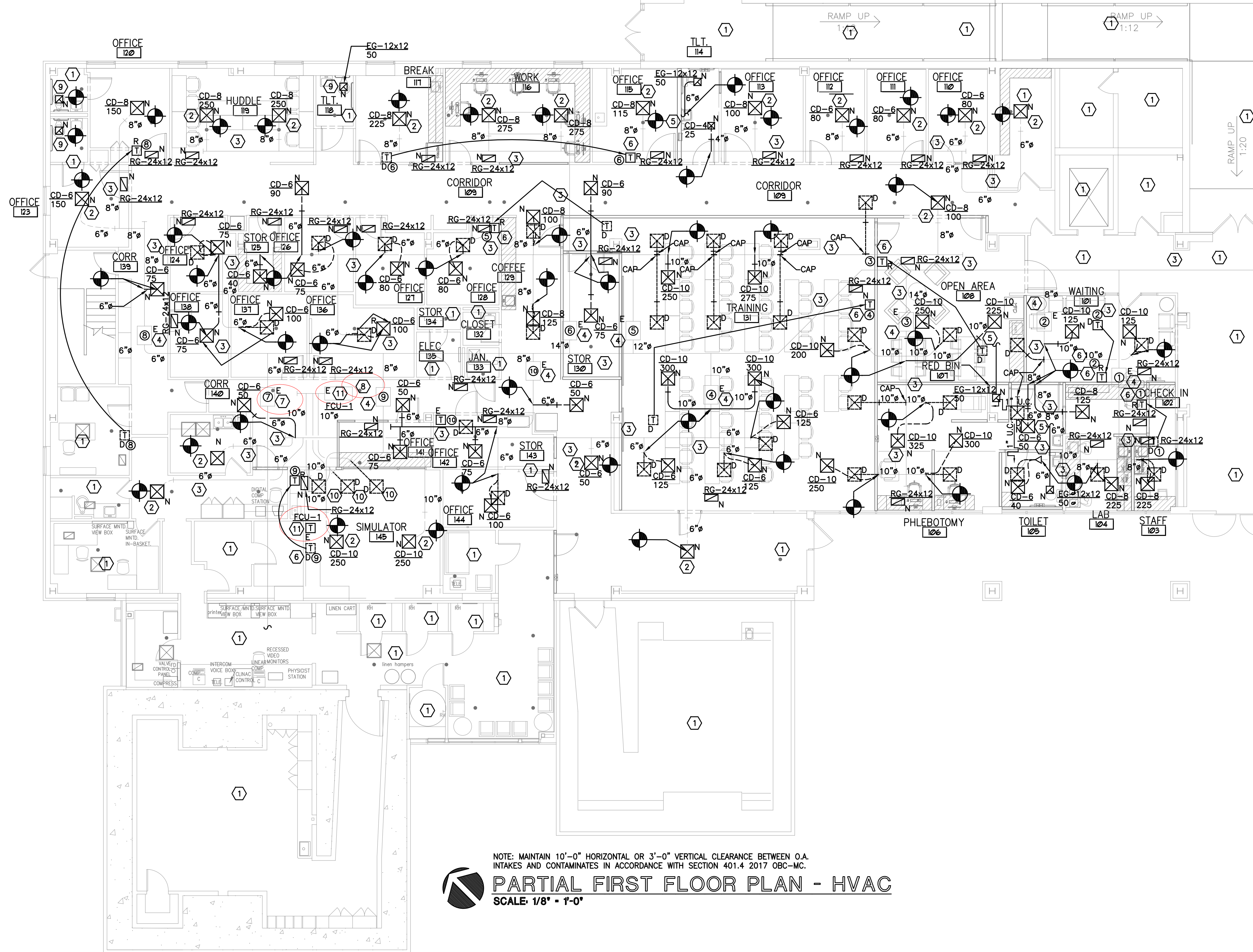
THE ENTIRE AREA ABOVE THE CEILING IS USED AS A RETURN AIR PLENUM. ALL NEW MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH SECTION 602.0, "PLENUMS", 2017 OBC-MC. NEW MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 50 IN ACCORDANCE WITH SECTION 604.3 2017 OBC-MC.

DRAWING NOTES

- ① NO NEW HVAC WORK THIS AREA.
- ② REPLACE EXISTING DIFFUSER AND RECONNECT TO EXISTING SUPPLY BRANCH, AND REBALANCE SUPPLY CFM AS REQUIRED
- ③ DUCTWORK LOCATED ABOVE LAY-IN CEILING (TYPICAL OF ALL)
- ④ EXISTING VARIABLE AIR VOLUME BOX TO REMAIN
- ⑤ CONNECT NEW 6" EXHAUST DUCT TO EXISTING EXHAUST MAIN AS REQUIRED
- ⑥ RELOCATE EXISTING THERMOSTAT. FIELD VERIFY THERMOSTAT LOCATION WITH OWNER BEFORE ROUGH-IN.
- ⑦ EXISTING VARIABLE AIR VOLUME BOX TO REMAIN (NOT IN SCOPE OF WORK)
- ⑧ EXISTING FAN COIL UNIT TO REMAIN
- ⑨ REPLACE EXISTING EXHAUST GRILLE AND RECONNECT TO EXISTING EXHAUST DUCTWORK AS REQUIRED
- ⑩ REMOVE EXISTING CEILING DIFFUSERS AND FLEXIBLE DUCTWORK.
- ⑪ ABANDON EXISTING FAN COIL UNIT, THERMOSTAT AND ASSOCIATED DUCTWORK IN PLACE. FAN COIL UNIT NOT TO BE USED.

HVAC GENERAL NOTES

- 1. FURNISH ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM AS SHOWN.
- 2. ALL WORK SHALL CONFORM TO APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. HVAC CONTRACTOR SHALL SECURE AND PAY FOR ALL TESTS AND INSPECTIONS AS REQUIRED FOR HIS OWN WORK.
- 3. WORKMANSHIP SHALL REPRESENT THE HIGHEST STANDARD FOR THE INDUSTRY. ALL MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF OWNER ACCEPTANCE.
- 4. PERFORM ALL TESTS, ADJUSTMENTS, ETC. AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- 5. BALANCE SUPPLY, RETURN AND OUTDOOR AIR QUANTITIES AS SHOWN.
- 6. NEW DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED TO SMACNA STANDARDS.
- 7. CONTRACTOR SHALL COORDINATE HIS OWN WORK WITH THAT OF THE OTHER TRADES AND EXISTING CONDITIONS INCLUDING ARCHITECTURAL, PLUMBING, LIGHTING, STRUCTURAL, SPRINKLER, ETC.
- 8. LOW VOLTAGE CONTROL WIRING (24V OR LESS) SHALL BE PROVIDED BY THIS CONTRACTOR.
- 9. NEW FLEXIBLE DUCT AND CONNECTORS SHALL CONFORM TO REQUIREMENTS OF UL181 FOR 0 OR CLASS 1 AND SHALL BE SO IDENTIFIED
- 10. ALL CUTTING AND PATCHING OF ROOFS, WALLS, ETC. INCLUDING REQUIRED SUPPORT OR STRUCTURAL STEEL SHALL BE PROVIDED BY OTHERS. NO CUTTING SHALL BE PERFORMED WITHOUT PRIOR APPROVAL.



NOTE: MAINTAIN 10"-0" HORIZONTAL OR 3"-0" VERTICAL CLEARANCE BETWEEN G.A. INTAKES AND CONTAMINATES IN ACCORDANCE WITH SECTION 401.4 2017 OBC-MC.
PARTIAL FIRST FLOOR PLAN - HVAC
 SCALE: 1/8" = 1'-0"



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REVISIONS:

PROJECT: **INTERIOR IMPROVEMENTS FOR: ANDERON GME**
 8000 FIVE MILE ROAD
 CINCINNATI, OHIO 45230
 SHEET TITLE: **HVAC - FIRST FLOOR PLAN AND NOTES**

DRN: CHK: CAD REF:
 BUM SMG 16122H-1
 DATE: 03/02/23
 SHEET No.: **H100**

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PARTIAL FIRST FLOOR PLAN - HVAC
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SHEET TITLE: **HVAC - FIRST FLOOR PLAN AND NOTES**

DRN: | CHK: | CAD REF:
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VENTILATION AIR SCHEDULE																	
ZONE	ROOM NAME	ROOM NUMBER	OCCUPANCY CLASSIFICATION	ZONE POPULATION	PEOPLE OUTSIDE AIR RATE (CFM/PERSON)	VENTILATION FOR OCCUPANTS (CFM)	AREA (SQ FT)	AREA OUTDOOR AIR RATE (CFM/SQFT)	VENTILATION FOR AREA (CFM)	BREATHING ZONE OUTSIDE AIR (CFM)	DISTRIBUTION EFFECTIVENESS	ZONE OUTDOOR AIRFLOW (CFM)	PRIMARY OUTDOOR AIR FRACTION	REQUIRED OUTSIDE AIR (CFM)	ACTUAL OUTSIDE AIR (CFM)	ACTUAL SUPPLY AIR (CFM)	NOTES
EXISTING	WAITING	101	RECEPTION AREAS	7	5	35	247	0.06	15	50	0.8	62.5	.25	25	25	250	1, 2
EXISTING	CHECK-IN	102	OFFICE SPACES	2	5	10	78	0.06	5	15	0.8	18.75	.15	12.5	12.5	125	1, 2
EXISTING	STAFF	103	BREAK ROOMS	2	5	10	59	0.06	4	14	0.8	17.5	.08	22.5	22.5	225	1, 2
EXISTING	LAB	104	OFFICE SPACES	3	5	15	93	0.06	6	21	0.8	26.25	.12	22.5	22.5	225	1, 2
EXISTING	TOILET	105	PUBLIC RESTROOMS	-- --	-- --	-- --	63	-- --	-- --	-- --	-- --	-- --	-- --	4	40	40	1, 2, 3
EXISTING	PHELEBOTOMY	106	OFFICE SPACES	3	5	15	284	0.06	17	32	0.8	40	.04	110	110	1100	1, 2
EXISTING	OPEN AREA	108	OFFICE SPACES	10	5	50	446	0.06	3	53	0.8	66.25	.04	195	195	1950	1, 2
EXISTING	CORRIDOR	109	CORRIDORS	-- --	-- --	-- --	1039	0.06	62	62	0.8	77.5	.28	28	28	280	1, 2
EXISTING	OFFICE	110	OFFICE SPACES	1	5	5	106	0.06	6	11	0.8	13.75	.18	8	8	80	1, 2
EXISTING	OFFICE	111	OFFICE SPACES	1	5	5	106	0.06	6	11	0.8	13.75	.18	8	8	80	1, 2
EXISTING	OFFICE	112	OFFICE SPACES	1	5	5	106	0.06	6	11	0.8	13.75	.18	8	8	80	1, 2
EXISTING	OFFICE	113	OFFICE SPACES	1	5	5	145	0.06	9	14	0.8	17.5	.18	10	10	100	1, 2
EXISTING	TOILET	114	PUBLIC RESTROOMS	-- --	-- --	-- --	67	-- --	-- --	-- --	-- --	-- --	-- --	25	25	250	1, 2, 3
EXISTING	OFFICE	115	OFFICE SPACES	1	5	5	152	0.06	9	14	0.8	17.5	.16	11.5	11.5	115	1, 2
EXISTING	WORK	116	OFFICE SPACES	6	5	30	260	0.06	16	46	0.8	57.5	.11	55	55	550	1, 2
EXISTING	BREAK	117	BREAK ROOMS	4	5	20	145	0.06	9	29	0.8	36.25	.17	22.5	22.5	225	1, 2
EXISTING	TOILET	118	PUBLIC RESTROOMS	-- --	-- --	-- --	36	-- --	-- --	-- --	-- --	-- --	-- --	4	40	40	1, 2, 3
EXISTING	HUDDLE	119	CONFERENCE ROOMS	8	5	40	244	0.06	15	55	0.8	68.75	.14	50	50	500	1, 2
EXISTING	OFFICE	120	OFFICE SPACES	1	5	5	132	0.06	8	13	0.8	16.25	.11	15	15	150	1, 2
EXISTING	OFFICE	123	OFFICE SPACES	1	5	5	122	0.06	7	12	0.8	15	.10	15	15	150	1, 2
EXISTING	OFFICE	124	OFFICE SPACES	1	5	5	89	0.06	5	10	0.8	12.5	.17	7.5	7.5	75	1, 2
EXISTING	STORAGE	125	STORAGE ROOMS	1	5	5	56	0.06	4	9	0.8	11.25	.29 *	4	4	40	1, 2
EXISTING	OFFICE	126	OFFICE SPACES	1	5	5	97	0.06	6	11	0.8	13.75	.19	7.5	7.5	75	1, 2
EXISTING	OFFICE	127	OFFICE SPACES	1	5	5	106	0.06	6	11	0.8	13.75	.18	8	8	80	1, 2
EXISTING	OFFICE	128	OFFICE SPACES	1	5	5	106	0.06	6	11	0.8	13.75	.18	8	8	80	1, 2
EXISTING	COFFEE	129	PUBLIC RESTROOMS	5	5	25	187	0.06	11	36	0.8	45	.20	22.5	22.5	225	1, 2
EXISTING	STORAGE	130	STORAGE ROOMS	1	5	5	132	0.06	8	13	0.8	16.25	.22	7.5	7.5	75	1, 2
EXISTING	TRAINING	131	CONFERENCE ROOMS	50	5	250	1448	0.06	87	337	0.8	446.25	.23	195	195	1950	1, 2
EXISTING	OFFICE	136	OFFICE SPACES	1	5	5	150	0.06	3	8	0.8	10	.10	10	10	100	1, 2
EXISTING	OFFICE	137	OFFICE SPACES	1	5	5	121	0.06	7	12	0.8	15	.15	10	10	100	1, 2
EXISTING	OFFICE	138	OFFICE SPACES	1	5	5	93	0.06	6	11	0.8	13.75	.19	7.5	7.5	75	1, 2
EXISTING	CORRIDOR	139	CORRIDORS	-- --	-- --	-- --	211	0.06	13	13	0.8	16.25	.22	7.5	7.5	75	1, 2
EXISTING	CORRIDOR	140	CORRIDORS	-- --	-- --	-- --	389	0.06	23	23	0.8	28.75	.12	20	20	200	1, 2
EXISTING	OFFICE	141	OFFICE SPACES	1	5	5	78	0.06	5	10	0.8	12.5	.17	7.5	7.5	75	1, 2
EXISTING	OFFICE	142	OFFICE SPACES	1	5	5	68	0.06	4	9	0.8	11.25	.15	7.5	7.5	75	1, 2
EXISTING	OFFICE	144	OFFICE SPACES	1	5	5	124	0.06	8	13	0.8	16.25	.17	10	10	100	1, 2
EXISTING	SIMULATOR	145	OFFICE SPACES	2	5	10	330	0.06	20	30	0.8	37.5	.07	50	50	500	1, 2
EXISTING	EXAM	146	OFFICE SPACES	2	5	10	108	0.06	7	17	0.8	21.25	.27	80	80	80	1, 2
EXISTING	EXAM	147	OFFICE SPACES	2	5	10	100	0.06	6	16	0.8	20	.25	80	80	80	1, 2
EXISTING	EXAM	148	OFFICE SPACES	2	5	10	116	0.06	7	17	0.8	21.25	.27	80	80	80	1, 2

- NOTES:
1. OUTDOOR VENTILATION AIR BASED ON ASHRAE STANDARD 62.1-2016 "VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY" IN ACCORDANCE WITH SECTION 403.2 (EXCEPTION), 2017 OBC-MC.
2. ??-?: WHERE $V_{out} = D \times (OA \text{ FOR PEOPLE}) + (OA \text{ FOR SPACE})$ AND D IS THE OCCUPANT DIVERSITY, $V_{out} = (0.5 \times 635) + 445 = 762.5 \text{ CFM}$.
 $Z_p = 0.29$; $E_v = 0.86$; OUTDOOR AIR INTAKE $V_{in} = V_{out} / E_v = 762.5 / 0.86 = 887 \text{ CFM}$.
3. REQUIRED EXHAUST AIR PROVIDED BY LOCAL CEILING MOUNTED EXHAUST FAN IN ACCORDANCE WITH TABLE 6.5 "MINIMUM EXHAUST RATES" ASHRAE STANDARD 62.1-2016.

EXISTING FAN COIL UNIT SCHEDULE

MARK	MODEL NUMBER	HEATER MODEL	SUPPLY CFM	OUTSIDE AIR CFM	EXT. S.P.	HEATING (ELECTRIC)		ELECTRIC				NOTES
						KW	OUTPUT(MBH)	HP	VOLTS	PHASE	MAX FUSE SIZE	
AHU-1	EXISTING 3-TON	-- --	---	---	---	---	---	---	---	---	---	1, 2

- NOTES:
1. EXISTING FAN COIL UNIT TO REMAIN BUT NOT USED AND ABANDON IN PLACE.
2. EXISTING THERMOSTAT TO REMAIN BUT NOT USED AND ABANDON IN PLACE.

EXISTING HEAT PUMP SCHEDULE

MARK	CARRIER MODEL (OR EQUAL)	FAN COIL	COOLING		HEATING *	ELECTRIC				NOTES	
			TOTAL(MBH)	SENS(MBH)		FLA	MCA	VOLTS	PHASE		MAX FUSE SIZE
HP-1	EXISTING 3-TON	FCU-1	---	---	---	---	---	---	---	---	1

- NOTES:
- *HEAT PUMP CAPACITY @ 47 DEGREES OA
1. EXISTING HEAT PUMP TO REMAIN BUT NOT USED AND ABANDON IN PLACE.

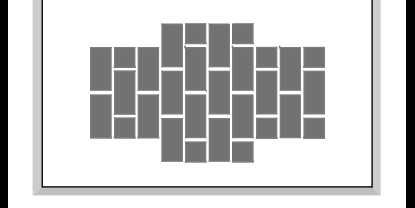
EXISTING VAV BOX SCHEDULE

VAV BOX	MFR' MODEL NO.	SUPPLY CFM	O.A. CFM	INLET SIZE	NOTES
1	EXISTING	490	49	---	1, 2
2	EXISTING	425	42.5	---	1, 2
3	EXISTING	1,580	158	---	1, 2
4	EXISTING	1,175	117.5	---	1, 2
5	EXISTING	1,730	173	---	1, 2
6	EXISTING	1,785	178.5	---	1, 2
7	EXISTING	---	---	---	---
8	EXISTING	300	30	---	1, 2
9	EXISTING	500	50	---	1, 2
10	EXISTING	250	25	---	1, 2
11	EXISTING	240	24	---	1, 2

- NOTES:
1. EXISTING VAV BOX TO REMAIN FIELD VERIFY PROPER OPERATION AND CLEAN/REPAIR AS REQUIRED.
2. RECALIBRATE BOX TOTAL SUPPLY CFM AS REQUIRED.



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