

ROOF-TOP UNIT SCHEDULE - GAS HEAT

MARK	MANUFACTURER/ MODEL	NOMINAL TONS	CFM	O/A CFM	E.S.P. (IN. W.C.)	(SEER) SEER2 (EER) EER2	COOLING CAP. (MBH)		HEATING CAP. (MBH)		THERM. EFF. (%)	ELEC. HEAT KW	ELECTRICAL (VOLTS/PH/Hz)	UNIT MCA	UNIT MOCP	UNIT WEIGHT (LBS)	MANUF. DATE	NOTES
							TOTAL	SENSIBLE	DRY BULB/ WET BULB °F	IN./OUT.								
(NEW) RTU-1	RHEEM RGEYB060ACT102AAB0	5.0	2,000	400	0.5"	13.4/10.6	61.0	41.9	80/67	100.0/81.0	81.0	N/A	208/3/60	33.0	45.0	650	2025	1-6,8-10,13,14
(NEW) RTU-2	RHEEM RGEYB036ACT102AAB0	3.0	1,600	220	0.8"	13.4/10.6	34.2	25.6	80/67	100.0/81.0	81.0	N/A	208/3/60	24.0	30.0	625	2025	1-5,8-10,13,14

- NOTES:**
- LABEL EACH RTU AND EXHAUST FAN WITH "BODYBAR" AND SUITE NUMBER.
 - COOLING CAPACITY IS BASED ON 80°F EDB AND 67°F EWB CONDITIONS.
 - PROVIDE PROGRAMMABLE ROOM THERMOSTAT, GOOGLE NEST SERIES.
 - PROVIDE UNWIRED CONVENIENCE OUTLET (ELECTRICIAN SHALL FIELD WIRE TO 208V PANEL) AND ROOF CURB.
 - VERIFY VOLTAGE AVAILABLE ON SITE PRIOR TO ORDERING NEW UNITS. OBTAIN STRUCTURAL APPROVAL PRIOR TO PLACING UNIT.
 - UNIT PROVIDED WITH DUAL COMPRESSORS/2-STAGE COOLING.
 - PROVIDE FACTORY ELECTROFIN OR EQUAL ANTI-CORROSION COATING ON OUTDOOR COILS.
 - WEIGHTS INCLUDE ACCESSORIES.
 - ORDER WITH ACCESSORIES INCLUDING: CURB, ECONOMIZER, HAIL GUARD, 2-POSITION DAMPER, DUAL ENTHALPY SENSORS, DUCT DETECTORS, ETC.
 - MCA BASED ON MEDIUM STATIC FAN.
 - AUXILIARY STRIP HEAT. (ELECTRIC UNIT ONLY)
 - BRING EXISTING UNIT LIKE NEW OPERATING AND PERFORMANCE CONDITIONS. COMB OUT FINS, CHANGE BELTS, BRING TO FACTORY SPEC REFRIGERANT LEVELS.
 - G.C./ STRUCTURAL ENGINEER SHALL CONFIRM EXACT WEIGHT WITH ALL OPTIONS INSTALLED, OR BOTH EXISTING AND NEW RTUS.
 - ECONOMIZER SHALL HAVE CAPABILITY TO RUN DOWN BELOW 40°F OUTSIDE TEMPERATURE (LOW AMBIENT CAPABILITY). UPDATE CONTROL PACKAGE ON EXISTING EQUIPMENT AS NEEDED.
- NOTE:**
- THE USE OF R-410A REFRIGERANT IN HVAC SYSTEMS WILL BE PHASED OUT EFFECTIVE JANUARY 1, 2025. THE CONTRACTOR SHALL ENSURE THAT ALL HVAC EQUIPMENT ORDERED AFTER THIS DATE IS COMPATIBLE WITH EITHER R-454B OR R-32 REFRIGERANT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY REFRIGERANT TYPE PRIOR TO ORDERING EQUIPMENT.

MECHANICAL PLAN KEYED NOTES 'O'

- RTU ON INSULATED ROOF CURB LOCATED ON ROOF ABOVE. REFER TO MEP1.0 FOR ROOF PLAN. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS. CONFIRM SUPPLY DUCT AND RETURN DROP LOCATIONS IN FIELD.
- PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT, GOOGLE NEST WITH REMOTE SENSOR, AND AUTO CHANGEOVER AND RELATED WIRING TO CONTROL EACH UNIT. MOUNT T-STAT AT 48" AFF, SENSOR AT 96" AFF.
- HVAC CONTRACTOR TO FURNISH AND INSTALL DUCT SMOKE DETECTOR IN RETURN AIR DUCTS WITH A CAPACITY 2000 CFM OR MORE TO MEET LOCAL CODE REQUIREMENTS (IF REQUIRED AND NOT ALREADY PRESENT IN EXISTING UNITS).
- PROVIDE BALANCING DAMPER ON EACH SUPPLY AND RETURN RUNOUT. (TYPICAL)
- CONTRACTOR SHALL ENSURE THAT ALL FRESH AIR INTAKES ARE AT LEAST 10'-0" AWAY FROM EXHAUST SOURCES (PLUMBING VENTS, EXHAUST FANS, COMBUSTION EXHAUST, ETC.). PROVIDE OFFSETS AND ADJUST/RELOCATE EQUIPMENT AS NEEDED.
- ROUTE EXHAUST DUCT TO EXTERIOR/ROOF. PROVIDE BIRD SCREEN, INSECT SCREEN, & BACK DRAFT DAMPER.
- DROP/RISE (LOWER/RAISE) DUCTWORK AS NEEDED, DEPENDING ON LOCATION OF SPRINKLER MAINS, STRUCTURAL ELEMENTS, ETC.
- EXPOSED DUCTWORK.

CONDENSATE LINE SIZES:

3/4"	UP TO 20 TONS CONNECTED.
1"	UP TO 21-40 TONS CONNECTED.
1-1/4"	UP TO 41-90 TONS CONNECTED.
1-1/2"	UP TO 91-125 TONS CONNECTED.
2"	UP TO 126-250 TONS CONNECTED.

*ROUTE TO APPROVED RECEPTOR VIA AIR GAP.

FINAL PLACEMENT OF THERMOSTAT TO BE SELECTED BY CONSTRUCTION MANAGER OR OWNER'S REPRESENTATIVE AND MAY NEED TO BE MODIFIED DUE TO FIELD CONDITIONS.

MANDATORY TEST AND BALANCE REPORT BY LICENSED 3RD PARTY TO BE PROVIDED TO OWNER AND ARCHITECT UPON COMPLETION OF HVAC WORK.

REFER ALSO TO SHEET MEP1.0 FOR MORE MECHANICAL NOTES

CONTRACTOR NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES / REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, HAD AN EXAMINATION AND CODE REVIEW BEEN MADE, WILL NOT BE ALLOWED.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	DRIVE	AIRFLOW (CFM)	EXT. SP (IN. W.C.)	V, PH, HZ	MOTOR PWR. (W)	SERVICE	APPROXIMATE WEIGHT (LBS)	INSTALL LOCATION	NOTES
EF-1	GREENHECK	SP-80	DIRECT	80	0.30"	115/1/60	18	RESTROOM	26	CEILING	2
EF-2	GREENHECK	SP-80	DIRECT	80	0.30"	115/1/60	18	RESTROOM	26	CEILING	2
EF-3	GREENHECK	SP-80	DIRECT	80	0.30"	115/1/60	18	UTILITY	26	CEILING	2

- NOTES:**
- FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
 - PROVIDE WITH GRAVITY BACK DRAFT DAMPER, MANUFACTURERS ROOF VENT CAP AND BIRD SCREEN

CENTERVILLE, OH NOTE:

HVAC UNITS ARE SHOWN IN A STRUCTURAL BAY. CONFIRM WITH STRUCTURAL PLANS EXACT LOCATION OF STRUCTURAL BY REINFORCING ROOF AS NEEDED TO WITHSTAND WEIGHT OF NEW RTUS AS NEEDED.

BODYBAR PROTO NOTE:

ALL "RECTANGULAR" EXPOSED DUCTWORK SHALL BE INTERNALLY INSULATED, METAL DUCT

HVAC SUMMARY:

2,051 SQ FT. (CONDITIONED)
8.0 TONS
256.4 SF/TON

AIR DEVICE SCHEDULE

SYMBOL	TAG	MANUF.	CATALOG #	FIXTURE DESCRIPTION	NECK SIZE	REMARKS
	A	TITUS	OMNI	24x24 SUPPLY GRILLE/ 12x12 SUPPLY GRILLE	SEE PLAN	ALUMINUM, BORDER TYPE 1 IN GYP, BD. CLG. PAINTED TO MATCH CEILING WHERE APPLICABLE. IS NOT WHITE, REF ARCH. SHEETS.
	B	TITUS	350RS	24x24 RETURN GRILLE/ 12x12 RETURN GRILLE	SEE PLAN	LOUVERED, BORDER TYPE 1
	C	NAILOR	61DV-0	SIDEWALL SUPPLY, 1/2" WIDTH, WHITE. PAINTED TO MATCH WALL.	--	SURFACE MOUNT, EACH SHALL HAVE SADDLE-MOUNT FITTING WITH NECK VOLUME DAMPER. 10 x 6 = 005-350 CFM 10 x 8 = 350-500 CFM 12 x 8 = 500-580 CFM "DOUBLE DEFLECTION, ADJUSTABLE"
	D	TITUS	350FL	RETURN GRILLE	--	ALUMINUM LOUVERED RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, LONG BLADES
	E	TITUS	300FL	SUPPLY GRILLE	--	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION
	F	TITUS	R-OMNI	27" ROUND CEILING DIFFUSER 13" ROUND CEILING DIFFUSER	SEE PLAN	DUCT MOUNTED; ORDER TRIM FOR OPEN CEILING.

- NOTE:**
- ALL GRILLES IN GYP BOARD CEILING SHALL BE ORDERED WITH INTEGRAL BALANCING DAMPERS.
 - PROVIDE RECTANGULAR TO ROUND ADAPTERS WHEREVER NECESSARY.
 - NOT ALL DEVICES USED ON ALL JOBS.
 - TRANSITION NECK SIZE ON SUPPLY AND RETURN AS NEEDED TO ENSURE SAME SIZE (WITHIN 2") SUPPLY AND RETURN REGISTERS FOR UNIFORM APPEARANCE.

CENTERVILLE, OH NOTE:

DUCTWORK SHALL BE INSTALLED PER SMACNA STANDARDS.

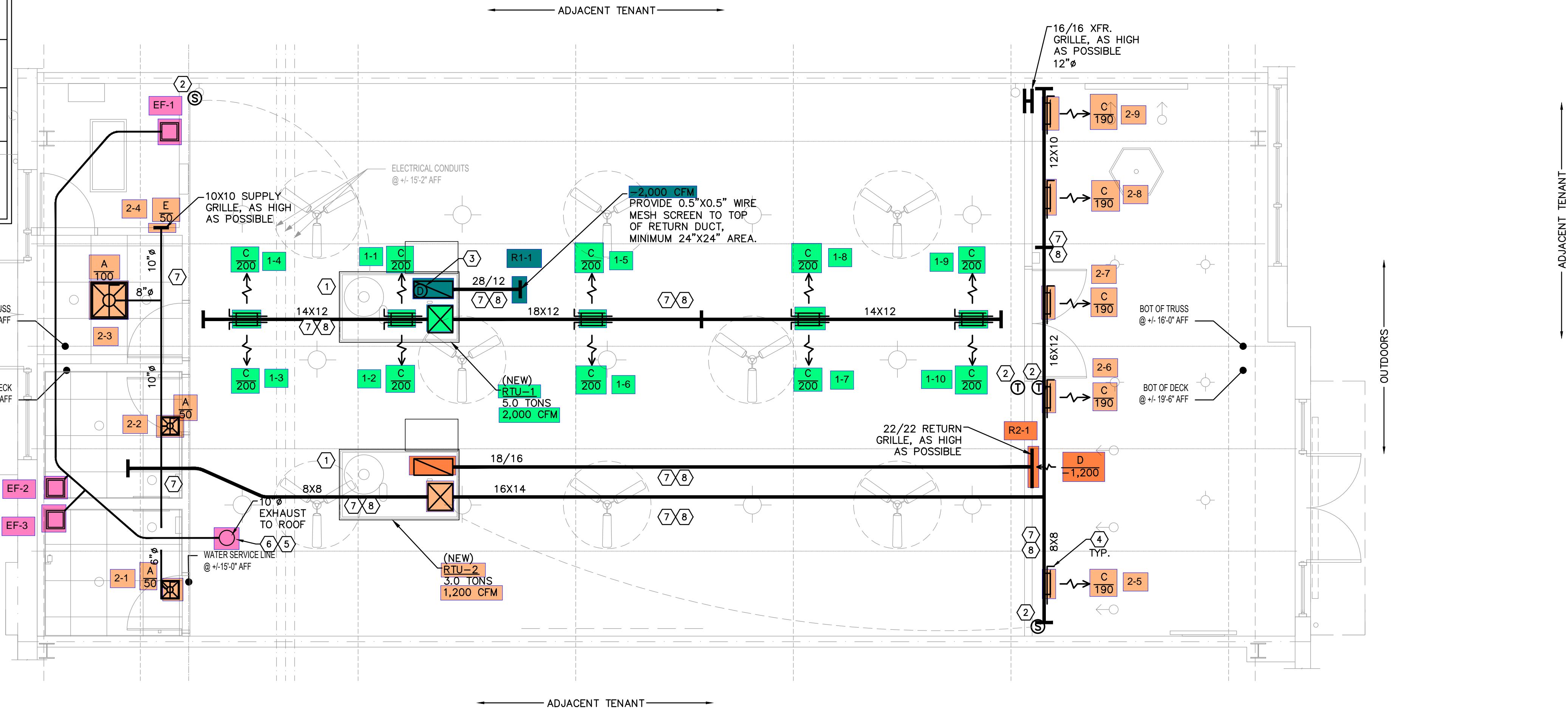
CENTERVILLE, OH NOTE:

ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH OHIO ENERGY CODE 2021 (ADOPTS WITH AMENDMENTS 2021 INTERNATIONAL ENERGY CONSERVATION CODE 2021), 2024 OHIO MECHANICAL CODE (2021 IMC AMENDED) & ANY ENERGY CODES REQUIRED BY AHJ.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	THERMOSTAT @ 48" AFF
	DUCT MOUNTED SMOKE DETECTOR
	REMOTE ROOM TEMPERATURE SENSOR AT 96" AFF
	VOLUME DAMPER
	MOTORIZED DAMPER WITH ACTUATOR
	BAROMETRIC FLAP DAMPER
	ROOF TOP UNIT
	AIR HANDLING UNIT
	EXHAUST FAN

HVAC DROP LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD-VERIFY EXACT DROP CONFIGURATION ON BOTTOM OF RTU. MODIFY DUCT LAYOUT BASED ON EXISTING BEAMS, COLUMNS AND JOISTS, SPRINKLER PIPING, & ETC LOCATIONS AS FIELD CONDITIONS REQUIRE. IT IS EXPECTED THAT THE MECHANICAL CONTRACTOR WILL MAKE MINOR ADJUSTMENTS TO BEST SUIT FIELD CONDITIONS. MOUNT DUCTWORK AS TIGHT AS POSSIBLE TO STRUCTURE. MAINTAIN CROSS SECTIONAL AREA AS INDICATED.



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



16775 ADDISON ROAD, SUITE 350
ADDISON, TX 75001
PH: (469) 960-2322

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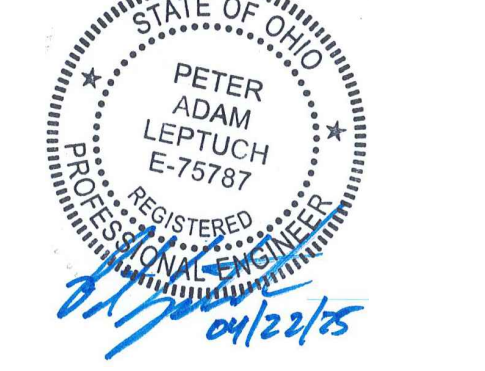
ISSUE RECORD

DATE	DESCRIPTION

REVISION RECORD

NO.	DATE	DESCRIPTION

PROFESSIONAL SEAL



REMODEL

PROJECT NAME

BODYBAR
THE VILLAGE AT CORNERSTONE SHOPPES IV
CENTERVILLE OHIO

5268 CORNERSTONE NORTH BLVD
CENTERVILLE, OH 45440

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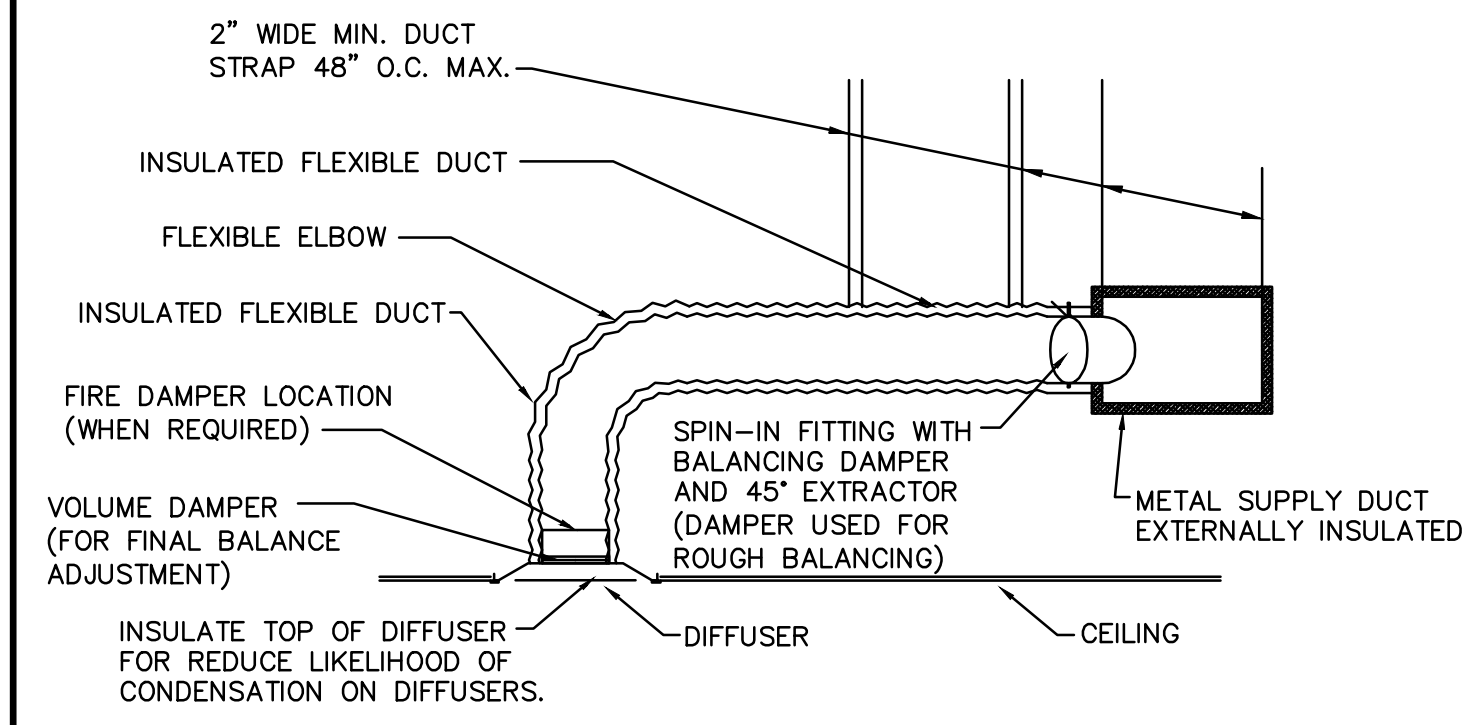
PROJECT NUMBER

25-0030

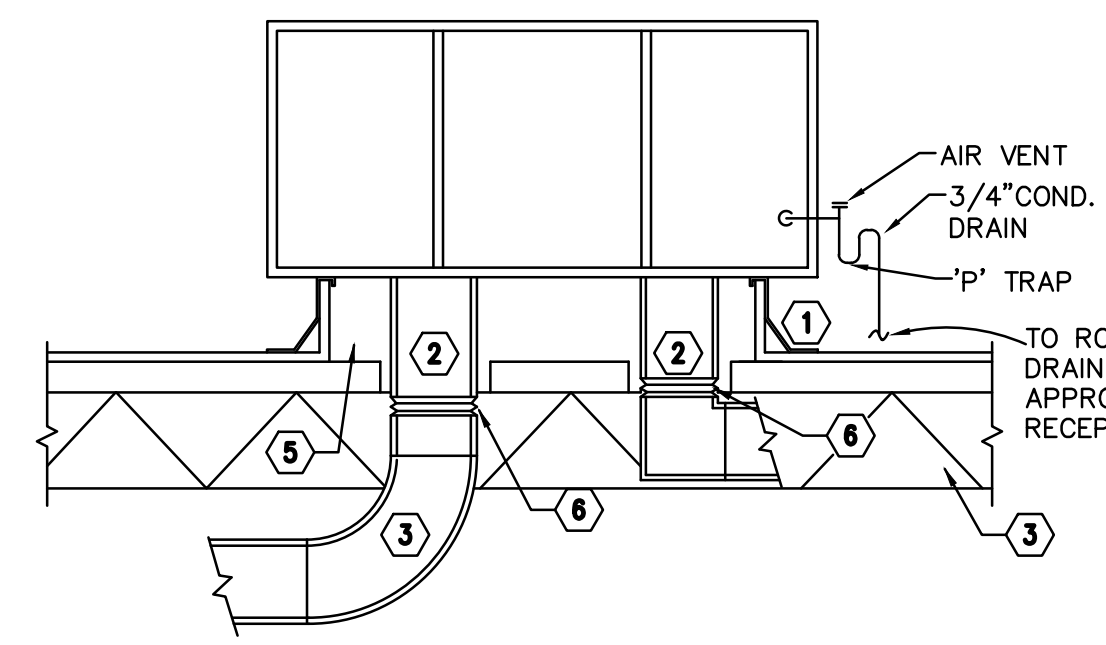
MECHANICAL PLAN

SHEET NUMBER

M1.0



02 HVAC DUCTWORK DETAIL
SCALE: NOT TO SCALE



01 TYPICAL ROOF-TOP UNIT DETAIL
SCALE: NOT TO SCALE

- NOTES:**
1. SET ROOF CURB ON STRUCTURAL STEEL - SHIM DEAD LEVEL. SECURE ROOF CURB TO METAL DECK AND A/C UNIT TO ROOF CURB.
 2. TRANSITION TO CONNECTION SIZES IN DUCT RISE, REFER TO PLANS FOR SIZES.
 3. 1" ACOUSTIC LINING IN SUPPLY AND RETURN DUCTS FROM FAN DISCHARGE TO POINT INDICATED ON MECHANICAL DRAWINGS (10'-0" MIN.). DUCT SIZES INDICATED ON PLAN ARE INTERIOR. PAINT EXPOSED DUCTWORK TO MATCH CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR SCHEME.
 4. THE MECHANICAL ENGINEER DOES NOT PROVIDE STRUCTURAL ENGINEERING SERVICES, AND RECOMMENDS TO THE OWNER THAT ANY ADDITIONS LOAD PLACED ON THE ROOF BE APPROVED BY A STRUCTURAL ENGINEER.
 5. INSULATED ROOF CURB.
 6. FLEXIBLE CONNECTION - TYPICAL.

HVAC Load Calc - Fitness Center		4/22/2025		Bodybar - Centerville, OH		25.116	
ASHRAE DESIGN:	DB =	90.3					
Sensible Heat:	Basis of Design: Dayton, OH	WB =	73.6				
	Design Indoor Temp		68 F				
H_sensible, O.A. = 1.08 * cfm * delta T	H_sensible_OA =	14932.08	dT =	22.3			
H_sensible, lighting = watts * 3.413	H_sens_lgtg =	7000.063					
H_sensible, people = 305 * # people	H_sens_ppl =	5490					
H_sensible, walls = A*u*dT	H_sens_wall =	2584.615	(dT = 40F)				
H_sensible, floor = A*u*dT	H_sens_floor =	2051	(dT = 1F)				
H_sensible, roof = A*u*dT	H_sens_roof =	5397.368	(dT=50F)				
H_sensible, window conductance = A_glass*U*dT	H_sens_glass =	7260					
H_sensible, window transmittance = A_glass*SHGC*Et	H_sens_solar gain =	20064					
H_latent, O.A. = 0.68 * q*delta w_grains	H_latent_OA =	10750.8					
H_latent, people = 545 * # people	H_latent_ppl =	9810					
Lighting Load (watts)	2051	(from Comcheck/ T-24 / FlaCom)					
Occupant Load	18	(Auto Populate - from ASHRAE calculation)					
Grains O.A. =	97.7	<----- update per site					
Grains I.A. =	72.2	(72.2 is for saturated air at 58F)					
Outside Air, Ventilation =	620	(Auto Populate - from ASHRAE calculation)					
Roof / Floor Area =	2051	(Auto Populate - from ASHRAE calculation)					
Wall Height - Average	20	<----- update per site					
Perimeter (unconditioned)	42	<----- update per site					
Wall Area =	840						
Window Length =	22	<----- update per site					
Window Height =	10	<----- update per site					
Window Area =	220						
Shading Factor =	0.4	(0 = none, 1.0 = fully shaded)					
R-value Walls = (R_net) =	13	Existing Wall					
U-value Walls =	0.076923	Average Wall					
R-floor = (R_net) =	1						
U-floor =	1						
R-roof = (R_net) =	19	Existing Roof					
U-roof =	0.052632	Average Roof					
U-glass	1.1	(use 1.1 for 1-pane glass; use 0.55 for double pane glass, energy star windows can be 0.55 max.)					
SHGC	0.76	(use 0.76 for ordinary windows)					
Et = incident solar radiation	200	(assume peak daily, btu/hr p.s.f. Solar constant is 442 BTUH/hr at top of atm, 317 at sfc.)					
Total Cooling Load:							85339.93
Space Load - Tonnage Required							7.111661 tons
Safety Factor (10%)							93873.92
Space Load - Recommended Tonnage							7.822827 tons

HVAC Load Calc - Fitness Center		4/22/2025		Bodybar - Centerville, OH			
ASHRAE DESIGN:	DB =	0.6					
Sensible Heat Loss:	Design Temp		70				
H_sensible, O.A. = 1.08 * cfm * delta T	H_sensible_OA =	-46470.2	(dT = 57F)				
H_sensible, O.A. = 1.08 * cfm * delta T	H_sensible_OA =	-22485.6	(dT = 57F)				
H_sensible, walls = A*u*dT	H_sens_wall =	-4484.31	(dT = 57F)				
H_sensible, floor = A*u*dT	H_sens_floor =	6153	(dT = 3F)				
H_sensible, roof = A*u*dT	H_sens_roof =	-7491.55	(dT = 57F)				
H_sensible, window conductance = A_glass*U*dT	H_sens_glass =	-16794.8					
Outside Air, ventilation =	620	(from ASHRAE calculation)					
Outside Air, intrusion =	300	(from open doors on windy winter days)					
Outside Air =	920						
Roof / Floor Area =	2051	<----- update per site					
Wall Height - Average	20	<----- update per site					
Perimeter (unconditioned)	42	<----- update per site					
Wall Area =	840						
Window length =	22	<----- update per site					
Window height =	10	<----- update per site					
Window Area =	220						
Shading Factor =	0.4	(0 = none, 1.0 = fully shaded)					
R-value Walls = (R_net) =	13	New Wall					
U-value Walls =	0.076923077	Average Wall					
R-floor = (R_net) =	1						
U-floor =	1						
R-roof = (R_net) =	19	New Roof					
U-roof =	0.052631579	Average Roof					
U-glass	1.1	(use 1.1 for 1-pane glass; use 0.55 for double pane glass, energy star windows can be 0.55 max.)					
Total Heating Load:							-91573.5
Safety Factor (25%)							-114467 MBH
Space Load - Tonnage Required							33.53849 KW
Mechanical contractor shall verify Existing HVAC Equipment meets the above minimum requirement.							
Provide 180 mbh heat for quick heat-up in the mornings.							

MEP DRAWINGS ARE NOT STRUCTURAL ENGINEERING DRAWINGS. VERIFY WITH STRUCTURAL DESIGN, WHICH TAKES PRECEDENCE OVER THE M.E.P. SHEETS IN TERMS OF MOUNTING AND PLACEMENT.

VERIFY WITH STRUCTURAL DESIGN, WHICH TAKES PRECEDENCE OVER THE M.E.P. SHEETS IN TERMS OF MOUNTING AND PLACEMENT.

AIR BALANCE SCHEDULE						
UNIT	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST	PRESSURE	AREA SERVED
RTU-1	2,000	1,600	400	--	+400	STUDIO
RTU-2	1,200	980	220	--	+220	LOBBY
EF-1	--	--	--	80	-80	RR
EF-2	--	--	--	80	-80	RR
EF-3	--	--	--	80	-80	UTILITY
TOTAL	3,200	2,580	620	240	+370	--

HVAC SYSTEMS SHALL BE PROVIDED WITH BAROMETRIC RELIEF.

2024 OMC Ventilation Comparison													4/22/2025		Bodybar - Centerville, OH		
Zone Identification		Standard Case: 2024 Ohio Mechanical Code - Table 403.3.1.1 Min. Ventilation Rates										Design Case					
Zone	Occupancy Category	Area (sf)	People Outdoor (Rp)	Area outdoor (Az)	Expected Occupant Density (#/1000 sf)	Zone Population (# persons)	Breathing Zone Air Flow (CFM)	Zone Distribution Effectiveness (Ez)	Zone Outdoor Air Flow (Voz)	Factor Zp=	System Ventilation Efficiency (Ev)	Outdoor Air Intake Flow (CFM)	Total Outdoor provided by HVAC equip. (CFM)	Total Airflow provided by HVAC equip. (CFM)	Design % by which Outside Air Exceeds Standard		
Studio (Health Club/Aerobics Room)	Sports & Amusement	1,402	20	0.06	40	16	404.1	0.8	505.2	1	505.2	1	505.2	510	2000	1.0%	
Restroom	Restroom	106	0	0.06	0	0	6.4	0.8	8.0	1	8.0	1	8.0	10	100	25.8%	
Utility (Storage)	Retail Stores, Sales..	63	0	0.12	0	0	7.6	0.8	9.5	1	9.5	1	9.5	10	50	5.8%	
Retail Lobby (Sales)	Retail Stores, Sales..	420	7.5	0.12	15	1	57.9	0.8	72.4	1	72.4	1	72.4	75	950	3.6%	
Office (Office Spaces)	Offices	60	5	0.06	5	1	8.6	0.8	10.8	1	10.8	1	10.8	15	100	39.5%	
Total		2,051				18							606	620	3200		

$V_{oz} = R_p * P_z + R_a * A_z$
 $V_{gr} = \text{Total airflow provided by the HVAC equipment (Outdoor + Recirculated)}$
 $V_{gr} = V_{oz} / E_z$
 $Z_p = V_{oz} / V_{gr}$

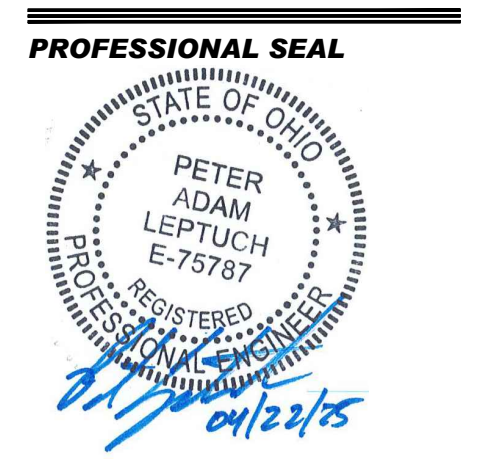
*Occupancy is counted by # of stretch boards plus instructor of class, which is the actual peak anticipated occupancy for this area
 *Terminology has been adopted from IMC 2021, refer to section 403 of that code for additional terminology, equations, etc.



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ISSUE RECORD
DATE DESCRIPTION

REVISION RECORD



REMODEL

PROJECT NAME

BODYBAR

THE VILLAGE AT CORNERSTONE SHOPPES IV

CENTERVILLE OHIO

5268 CORNERSTONE NORTH BLVD CENTERVILLE, OH 45440



PROJECT NUMBER
25-0030

MECHANICAL DETAILS

SHEET NUMBER

M2.0

