### **GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NEW YORK STATE ENERGY CODE INTERNATIONAL MECHANICAL CODE, ASHRAE GUIDELINES, SMACNA, COUNTY GUIDELINES, NEC, NATIONAL STANDARD PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. ADOPTED BY THE STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- MECHANICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- MECHANICAL CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING
- MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, APPROVALS, ETC. PRIOR TO COMMENCING WORK AND SHALL SECURE CERTIFICATE OF OCCUPANCY UPON
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL EXCESS MATERIAL OFF SITE IN AN APPROVED MANNER. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF ANY EXCESS MATERIALS AT THE COMPLETION OF THE PROJECT.
- UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
- ALL WORK SHALL BE SCHEDULED IN COMPLIANCE WITH THE OWNER'S REQUIREMENTS FOR THE USE OF
- MECHANICAL CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER, AND AS NECESSARY FOR A PROPER OPERATIONAL
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF HIS WORK AND TO ENSURE THE OWNER'S
- MECHANICAL CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
- MECHANICAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL WRITTEN OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
- MECHANICAL CONTRACTOR SHALL SUBMIT, WHERE REQUIRED BY THE ARCH/ENGR, SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO THE START OF FABRICATION OF THOSE ITEMS. THIS INCLUDES ALL EQUIPMENT, SCHEMATIC DUCTWORK AND PIPING LAYOUT, MECHANICAL ROOM LAYOUT, ETC. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EQUIPMENT ETC. WILL FIT (WITH PROPER MAINTENANCE CLEARANCES) AT ALL LOCATIONS. REVIEW OF SHOP DRAWINGS/SUBMITTALS BY THE ARCH/ENGR DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE CURRENT MODEL NUMBERS, TYPE, & FEATURES OF ALL EQUIPMENT'S & MATERIALS.
- MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE PRIOR TO STARTING THE WORK.

STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.

- MECHANICAL CONTRACTOR SHALL SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING
- ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE TO WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE AND OF EQUAL OR BETTER QUALITY.
- 18. ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
- THE ARCHITECT/ENGINEER HAS THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED, OR WORK DONE CONTRARY TO THE THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
- MECHANICAL CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND THE WORK OF HIS SUBCONTRACTORS FOR A PERIOD ONE (1) YEAR AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S
- IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
- ENGINEER/OWNER MAY ASK THE MECHANICAL CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS & SUBMITTALS OF ANY/ALL PARTS OF THIS PROJECT WHICH THE ENGINEER/OWNER DEEMS NECESSARY

## **ABBREVIATIONS**

&		=	AND	HVAC	=	HEAT/VENT/AIR COND
@		=	AT			
		=	CENTER LINE	ID	=	INSIDE DIAMETER (DIM)
Ø		=	DIAMETER OR ROUND	IN INSUL	=	INCH
۸ D \	,	_	ABOVE	INSUL	=	INSULATION
AB\ AC		=	ABOVE AIR CONDITIONING UNIT	JAN	=	JANITOR
AC		=	AIR COOLED CONDENSING UNIT			
AD		=	ACCESS DOOR	LSD	=	LINEAR SLOT DIFFUSER
ADI	D'L	=	ADDITIONAL			
AD		=	ADJUSTABLE	MAX	=	MAXIMUM
AHU		=	AIR HANDLING UNIT	MD MECH	=	MOTORIZED DAMPER MECHANICAL
ALT		=	ALTERNATE	MEP	=	MECHANICAL/ELECTRICAL/PLUMB
ВВ		=	BASEBOARD	MFR	=	MANUFACTURER
BDI		=	BACK DRAFT DAMPER	MIN	=	MINIMUM
BLD		=	BUILDING	MISC	=	MISCELLANEOUS
BOI		=	BOTTOM OF DUCT	MO	=	MASONRY OPENING
BO	S	=	BOTTOM OF STEEL	N.A.	=	NOT APPLICABLE
CD		=	CONDENSATE DRAIN	NK	=	NECK SIZE
CH		=	CABINET HEATER	NTS	=	NOT TO SCALE
CL		=	CLOSET			
CLC		=	CEILING	OA	=	OUTSIDE AIR
CO		=	CARBON MONOXIDE	OC	=	ON CENTER
CO		= 'D	COLUMN	OD OPG	=	OUTSIDE DIAMETER OPENING
	NST NT		CONSTRUCTION CONTINUOUS	OFG	_	OFEINING
	RR		CORRIDOR	R	=	RISER
CTF		=	CENTER	RA	=	RETURN AIR
CV		=	CONVECTOR	RAD	=	RADIUS
CW	'	=	COLD WATER	RAG	=	RETURN AIR GRILLE
D.E.	_		DETAIL	RAR RM	=	RETURN AIR REGISTER ROOM
DE <sup>-</sup> DIA		=	DETAIL DIAMETER	RTU	=	ROOF TOP HV/HVAC UNIT
DIM		=	DIMENSION	1110		TOOL TOT TIVITIVAG CIVIT
DN		=	DOWN	SA	=	SUPPLY AIR
DSI		=	DUCT SMOKE DETECTOR	SAD	=	SUPPLY AIR DIFFUSER
DW	'G	=	DRAWING	SAR	=	SUPPLY AIR REGISTER
^			FAOU	SD SECT	=	SMOKE DETECTOR SECTION
EA EAF		=	EACH EXHAUST AIR REGISTER	SP	=	SUMP PUMP
EF		=	EXHAUST FAN	SPEC		SPECIFICATION
	EC	=	ELECTRIC	STD	=	STANDARD
EN	GR	=	ENGINEER (ING)	STG	=	STORAGE
EQ		=	EQUAL	TO	_	TRANSFER AIR CRILLE
EQ	UIP	=	EQUIPMENT	TG TOD	=	TRANSFER AIR GRILLE TOP OF DUCT
FAI		=	FRESH AIR INTAKE	TX	=	TOILET EXHAUST
FC		=	FLEXIBLE CONNECTION	TYP	=	TYPICAL
FCI		=	FAN COIL UNIT			
FD		=	FIRE DAMPER	UH	=	UNIT HEATER
FF		=	FINISHED FLOOR	UTIL	=	UTILITY ROOM
FLF		=	FLOOR	VD	=	VOLUME DAMPER
FP FS[		=	FIRE PROTECTION FIRE/SMOKE DAMPER	VG	=	GAS VENT LINE
101		_	TINE/OWORE DAMEEN	VFD	=	VARIABLE FREQUENCY DRIVE
GA		=	GAUGE	VIF	=	VERIFY IN FIELD
GAI		=	GALVANIZED	10//		MATERIA
GPI	M	=	GALLONS PER MINUTE	W/	=	WITHOUT
				W/O WMS	=	WITHOUT WIRE MESH SCREEN
				WT	=	WEIGHT

	SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS
	3-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS.
	2-WAY SUPPLY AIR CEILING DIFFUSER (SAD) WITH NECK SIZE AND AND CFM INDICATED ON PLANS.
~~ <u></u>	RETURN AIR REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
<b>→</b> ►	EXHAUST AIR REGISTER (EAR); GRAVITY RELIEF GRILLE (GRG) WITH NECK SIZE AND CFM INDICATED ON PLANS
	SUPPLY AIR WALL REGISTER/GRILLE (SAR) WITH NECK SIZE AND CFM INDICATED ON PLANS
<b>→</b>	RETURN AIR WALL REGISTER (RAR) WITH NECK SIZE AND CFM INDICATED ON PLAN
——— OR <u>W"XD"</u>	INDICATES HARD DUCT WITH INTERNAL LINING (DIMENSIONS ARE INSIDE CLEAF WIDTH & DEPTH)
OR W"XD"	INDICATES HARD DUCT (DIMENSIONS ARE INSIDE CLEAR WIDTH & DEPTH)
	INDICATES FLEXIBLE DUCT (DIMENSIONS ARE INSIDE CLEAR DIAMETER; LENGT NOT TO EXCEED FOUR (4) FEET (IN COMMONS AREA ONLY)
	= DUCT TURN UP (SUPPLY, RETURN, EXHAUST)
	DUCT TURN DOWN (SUPPLY, RETURN, EXHAUST)
DSD/AD	= DUCT SMOKE DETECTOR WITH ACCESS DOOR
FD/AD —	FIRE DAMPER WITH ACCESS DOOR
FSD/AD ———	FIRE/SMOKE DAMPER WITH ACCESS DOOR
VD	= VOLUME DAMPER
BDD L	BACK DRAFT DAMPER
M	MOTORIZED DAMPER
T	INDICATES NEW WALL MOUNTED THERMOSTAT.
CO2	CO2 SENSOR
	REFRIGERANT PIPING

= PIPE TURN UP

= PIPE TURN DOWN

# H.V.A.C. GENERAL NOTES

- PROCURE AND PAY ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT THE WORK SHOWN. OBTAIN AND PAY FOR ALL FEES.
- COMPLY WITH ALL FEDERAL, STATE AND MUNICIPAL LAWS AND CODES, ORDINANCES, RULES AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED.

4. H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL HIS DEBRIS.

- GUARANTEE H.V.A.C. SYSTEMS FOR A PERIOD OF ONE YEAR FROM OWNER'S ACCEPTANCE TO BE FREE FROM DEFECTS AND REPAIR OR REPLACE, AT NO COST TO OWNER, FAILURES OR DEFECTS.
- BALANCE AIR AND WATER SYSTEMS TO QUANTITIES INDICATED. CONTRACTOR TO SUBMIT SIX (6) SETS OF AIR, WATER AND UNIT BALANCING REPORT TO ARCH./ENGR./OWNER PRIOR TO FINAL ACCEPTANCE OF THE
- BIDDERS FOR THIS WORK SHALL VISIT THE PREMISES AND CAREFULLY EXAMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING BIDS. NOT ALL EXISTING CONDITIONS HAVE BEEN IDENTIFIED ON DRAWINGS. CONTRACTOR SHALL NOTIFY ARCH. & ENGR. OF ALL DISCREPANCIES PRIOR TO SUBMITTING BID.
- ALL BIDDERS SHALL ALSO FAMILIARIZE THEMSELVES WITH THE MEANS OF ENTRANCE AND EXIT AT THE PROPERTY AND ALL OTHER INFORMATION NECESSARY TO PROPERLY CARRY OUT THE WORK.
- THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE ENGINEER AND WITHOUT ADDITIONAL COST TO THE OWNER, MAKE ALL NECESSARY CHANGES OR MODIFICATIONS TO LOCATIONS AS MAY BE NECESSARY TO SUIT REQUIREMENTS AND CONDITIONS FOR THE PROPER AND CONVENIENTLY ACCESSIBLE LOCATIONS OF ALL PARTS OF EACH SYSTEM.
- SMALL DETAILS ARE NOT USUALLY SHOWN OR SPECIFIED BUT ALL MATERIALS & COMPONENTS NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OR WORK SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL NOTE THAT ALL SERVICE CONNECTIONS MAY NOT BE SHOWN IN TRUE POSITIONS. EACH BIDDER IS CAUTIONED, THEREFORE, TO VERIFY SAME WITH FIELD CONDITIONS.
- CONTRACTOR SHALL CHECK FOR INTERFERENCE AND VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF PIPING AND DUCTWORK.
- 12. IF AN ITEM OF EQUIPMENT OTHER THAN THE ITEM(S) SPECIFIED IS APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COST ARISING OUT OF ADDITIONAL OR CHANGED GENERAL CONSTRUCTION AND MECHANICAL WORK REQUIRED TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
- ALL EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS AND
- CONTRACTOR TO SUBMIT SIX (6) SETS OF DUCT AIR LEAKAGE TESTING REPORT FOR REVIEW. PROVIDE ONE SET OF SPARE FILTERS FOR ALL INSTALLED HV/HVAC UNITS.
- PROVIDE TWO YEAR MAINTENANCE SERVICE FOR ALL INSTALLED HV/HVAC/MECHANICAL SYSTEMS. THIS INCLUDES A MINIMUM OF THREE PERIODIC SERVICE VISITS TO INSPECT, TEST & CHECK ALL COMPONENTS OF HVAC/HV UNITS AND ANY ADDITIONAL VISITS REQUIRED IF ANY HVAC/HV UNIT FAILS. ALL NECESSARY BELT
- ALIGNMENTS, PROPER OPERATIONS OF ALL DAMPERS, ETC IS INCLUDED IN THIS SCOPE OF WORK. PROVIDE FIRE DAMPERS/ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS, IRRESPECTIVE OF WHETHER IT IS INDICATED ON THE DRAWINGS OR NOT.
- PROVIDE FIRE STOPPING AROUND ALL OPENINGS FOR DUCT, PIPING, CONDUIT, ETC. PENETRATIONS
- THROUGH CORRIDORS, SLABS AND OTHER RATED PARTITIONS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTAINER SERVICES AND LABOR TO KEEP THE BUILDING FREE OF DEBRIS.
- CONTRACTOR TO PROVIDE NEW WALL MOUNTED THERMOSTATS FOR ALL AHU'S, RTU'S, VAV BOXES, CABINET HEATERS, UV'S FCU'S, AC UNITS, ETC. IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. CONTRACTOR TO INDICATE THERMOSTAT LOCATIONS ON ALL SHOP DRAWINGS.PROVIDE
- TAMPER PROOF ENCLOSURES FOR ALL THERMOSTATS LOCATED IN PUBLIC SPACES. CONTRACTOR TO NOTE THAT BOTH DWGS. & SPECS. ARE COLLECTIVELY A PART OF BID REQUIREMENTS. IN CASE OF ANY DIFFERENCES BETWEEN VARIOUS DWGS. OR BETWEEN DWGS. & SPECS, THE MOST STRINGENT
- CONTRACTOR TO SUBMIT SIX (6) SETS OF OPERATION & MAINTENANCE MANUALS, INCLUDING A SUMMARY SHEET OF ALL EQUIPMENT MFRS/MODEL #/SERIAL #'S, SHOP DRAWING SUBMITTALS, WARRANTY INFORMATION,
- O&M MANUALS, PROJECT INFORMATION, CONTACT DETAILS & AS-BUILT DRAWINGS. CONTRACTOR TO PROVIDE SIX (6) SETS AND AN ELECTRONIC COPY OF AS-BUILT DRAWINGS OF THE ENTIRE
- PROVIDE PROPER IDENTIFICATION TAGS, ARROWS, AND LABELS FOR ALL EQUIPMENT INCLUDING RTUS,
- DUCTWORK, PIPING, VALVES, ELECTRICAL PANELS, ETC. CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) TRAINING SESSIONS (TWO HOURS EACH) THAT ARE TO BE
- VIDEOTAPED FOR THE OWNERS USE, TO OWNER'S MAINTENANCE STAFF ON PROPER OPERATION, MAINTENANCE & COMMON TROUBLE-SHOOTING GUIDELINES FOR ALL NEW EQUIPMENT.

### H.V.A.C. MATERIALS

**EQUIPMENT:** REFER TO SCHEDULES FOR UNIT MANUFACTURER, SIZE, AND CAPACITY DATA

### DUCTWORK

INDOOR SUPPLY, RETURN AND EXHAUST DUCTWORK, EXCEPT AS INDICATED BELOW, SHALL BE GALVANIZED STEEL CONSTRUCTION. WEIGHTS AND CONSTRUCTION DETAIL SHALL BE IN

- SHOWER AREAS EXHAUST AND OUTDOOR AIR INTAKE DUCTWORK SHALL BE ALUMINUM
- CONSTRUCTION, CLASS "A" SEALED
- FIRE DAMPER: GREENHECK MAKE, MODEL FD-150 TYPE B (BLADES OUT OF AIRSTREAM), 1-1/2
- OR APPROVED EQUAL. PROVIDE WITH A RETAINING ANGLE AND AN ACCESS DOOR.
- (PIPE SIZE 2" AND SMALLER) AND WELDED FITTINGS (PIPE SIZE 2-1/2" AND LARGER) CONDENSATE DRAIN PIPING: SHALL BE HARD COPPER TYPE "L" WITH WROUGHT COPPER

# INSULATION:

- INSULATION WITH REINFORCED FOIL FACED FLAME RESISTANT KRAFT VAPOR BARRIER, ADHERED TO DUCT W/ SEALED LAPS AND TAPED JOINTS.
- INTERNALLY LINED DUCT: 1" THICK, MIN. 1.0 LB. DENSITY RIGID INSULATION ADHERED TO DUCT.
  - ARE CLEAR INSIDE DUCT DIMENSIONS. \ ALL SUPPLY & RETURN AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MIN.
  - OF 25' TO AND FROM ANY RTU OR AHU. ALL SUPPLY AIR DUCTWORK SHALL BE INTERNALLY LINED FOR A MINIMUM OF 15' DOWNSTREAM OF ALL VAV BOXES
- DUCT INSULATION NOTE: PROVIDE A MINIMUM 6" OVERLAP WHERE INTERNAL INSULATION ENDS AND EXTERNAL INSULATION BEGINS.

- OUTDOOR DUCTWORK INSULATION: ALL OUTDOOR DUCTWORK SHALL BE ALUMINUM CONSTRUCTION AND PROVIDED WITH BOTH 2" THICK, 6LB. DENSITY ACOUSTIC LINING WITH IAQ LINER AS WELL AS EXTERNAL INSULATION (MIN. 1.5" THICK AND 6 LB DENSITY). EXTERNAL INSULATION SHALL BE SLOPED (MIN. 1/4" PER FOOT) ON ALL UPWARD FACING HORIZONTAL SURFACES TO EFFECTIVELY DRAIN WATER OFF OF THE DUCTWORK. ALL DUCT CONNECTION JOINTS ETC SHALL BE GALVANIZED STEEL. DUCTWORK SHALL BE CLASS "A" SEALED AS PER SMACNA, PROVIDE SOLVENT BASED OUTDOOR DUCT SEALANT, RESISTANT TO UV LIGHT, UL 734 LISTED, WATER RESISTANT AS PER SMACNA. PROVIDE 2MM THICK ALUMINIZED FACED LOADED LIMP VINYL SHEET LAGGING WRAPPED AROUND THE DUCT AND FASTENED WITH ADHESIVE TAPE AND BANDS FOR A WATER TIGHT CONSTRUCTION WHICH MEETS CLASS 1 REQUIREMENTS FOR SMOKE DEVELOPMENT AND FLAME SPREAD RATINGS. SUBMIT VINYL SHEET LAGGING SAMPLE

 SAD - TITUS MAKE, MODEL OMNI RAR - TITUS MAKE, MODEL 4FL

- ALL CEILING DIFFUSERS LOCATED IN ACOUSTIC CEILING GRID SHALL BE PROVIDED
- ALL CEILING DIFFUSERS LOCATED IN GYPSUM BOARD AND/OR CONCEALED SPLINE
- PROVIDE FACTORY INSTALLED 90° BLANK-OFF PLATE(S) IN ALL 2 AND 3 WAY
- COLOR OF AIR OUTLETS/INLETS SHALL MATCH THE CEILING COLOR.
- ALL AIR OUTLETS/INLETS TOILETS, CORRIDORS, AND KITCHEN SHALL BE ALUMINUM CONSTRUCTION

FURNISH AND INSTALL ACCESS DOORS AT ALL LOCATIONS WHERE VALVES, DAMPERS, CONTROLS, VENTS, DRAINS, ETC, ARE TO BE INSTALLED ABOVE OR BEHIND ANY INACCESSIBLE SURFACE (GYPSUM BOARD, CMU, ETC.), IRRESPECTIVE OF WHETHER THEY ARE INDICATED ON ALL DRAWINGS OR NOT. ACCESS DOORS SHALL BE A SUITABLE SIZE TO MAINTAIN, OPERATE, REPAIR, AND REPLACE ALL EQUIPMENT. ACCESS DOORS SHALL BE FACTORY PRIMED AND PAINTED TO MATCH THE SURFACE IN WHICH THEY ARE INSTALLED.

### MECHANICAL DRAWING LIST Drawing# | Title Mechanical Notes & Symbols MEMORY CARE FIRST FLOOR MECHANICAL PLAN ASSISTED LIVING SECOND FLOOR MECHANICAL PLAN ALMC MECHANICAL ROOF PLAN M2.04 ALMC UNIT PLANS M6.01 MECHANICAL SCHEDULES MECHANICAL DETAILS MECHANICAL CONTROL DIAGRAMS

- ACCORDANCE WITH THE LATEST ASHRAE GUIDE AND/OR SMACNA STANDARDS.
- FLEXIBLE DUCTWORK: SHALL NOT EXCEED FOUR (4) FEET IN LENGTH (IN COMMONS BUILDING ONLY). FOR ANY HORIZONTAL FLEX DUCT BRANCH TO A CEILING DIFFUSER, FURNISH A 90° BRACE TO MAINTAIN A LONG RADIUS ELBOW TO THE DIFFUSER ("TITUS" MAKE, MODEL
- HOUR RATED (UNLESS OTHERWISE NOTED) UL-555 LABELED DAMPER WITH STANDARD FRAME

# GAS PIPING: SHALL BE SCHEDULE #40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS

- EXTERNAL DUCT INSULATION: 1" THICK, MIN. 1.5 LB. DENSITY FLEXIBLE FIBERGLASS DUCT

REFRIGERANT PIPING: SHALL BE HARD COPPER TYPE "K" WITH WROUGHT COPPER FITTINGS.

- DUCTS WIDER THAN 12" TO HAVE WELDED PINS AND WASHERS. DUCT DIMENSIONS AS INDICATED
- ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK CLOSED-CELL ELASTOMERIC INSULATION ("AP ARMAFLEX BLACK LAPSEAL" OR EQUAL).
- FRESH AIR INTAKE AND EXPOSED DUCT: 1" THICK, MIN. 2 LB. DENSITY RIGID FIBERGLASS DUCT INSULATION WITH FOIL FACING VAPOR BARRIER FASTENED WITH WELDED CLIPS, CEMENTED JOINTS WITH ALUMINUM TAPE.
- FOR APPROVAL BEFORE INSTALLATION. (TYPICAL FOR ALL OUTDOOR DUCTWORK ON THIS PROJECT)

# AIR DEVICES:

EAR - TITUS MAKE, MODEL 4FL

- WITH FRAME TYPE FOR GRID MOUNTING. IF THE TILE IS SMALLER THAN TILE SIZE.
- THE DIFFUSER SHALL BE PROVIDED WITH FRAME TYPE FOR CEILING TYPE.
- CEILINGS SHALL BE PROVIDED WITH FRAME TYPE FOR SURFACE MOUNTING

# ACCESS DOORS

INTERIOR DESIGN

LANDSCAPE ARCHITECTURE

ARCHITECTURE

PLANNING

- SI MO

**ARCHITECT** HCM Design, Inc.

p. 410. 837. 7311

p. 410.467.2377

FOOD SERVICE

p. 717.733.5810

p. 610.313.9550

LAN Associates

p. 201.447.6400

HCM/LCS

**MEPFP ENGINEER** 

STRUCTURAL ENGINEER

Scopos Hospitality Group

**INTERIOR DESIGNER** 

Merlino Design Partnership, Inc.

252 Main Street, Goshen, NY 10924

**Morabito Consultants** 

700 E. Pratt St, Suite 1200, Baltimore, MD 21202

952 Ridgebrook Road, suite 1700, Sparks MD 21152

300 West Chestnut Street, Suite 201, Ephrata, PA 17522

2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406

Engineering, Planning, Architecture Surveying, LLP

BROADVIEW

SENIOR LIVING

AT PURCHASE COLLEGE

LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK.

hord coplan macht

LICENSE NUMBER: 090385 EXPIRATION DATE: 10/31/23

no. date revision

BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - ASSISTED LIVING & MEMORY CARE (AL/MC) 4.1308.01

1/8" = 1'-0"

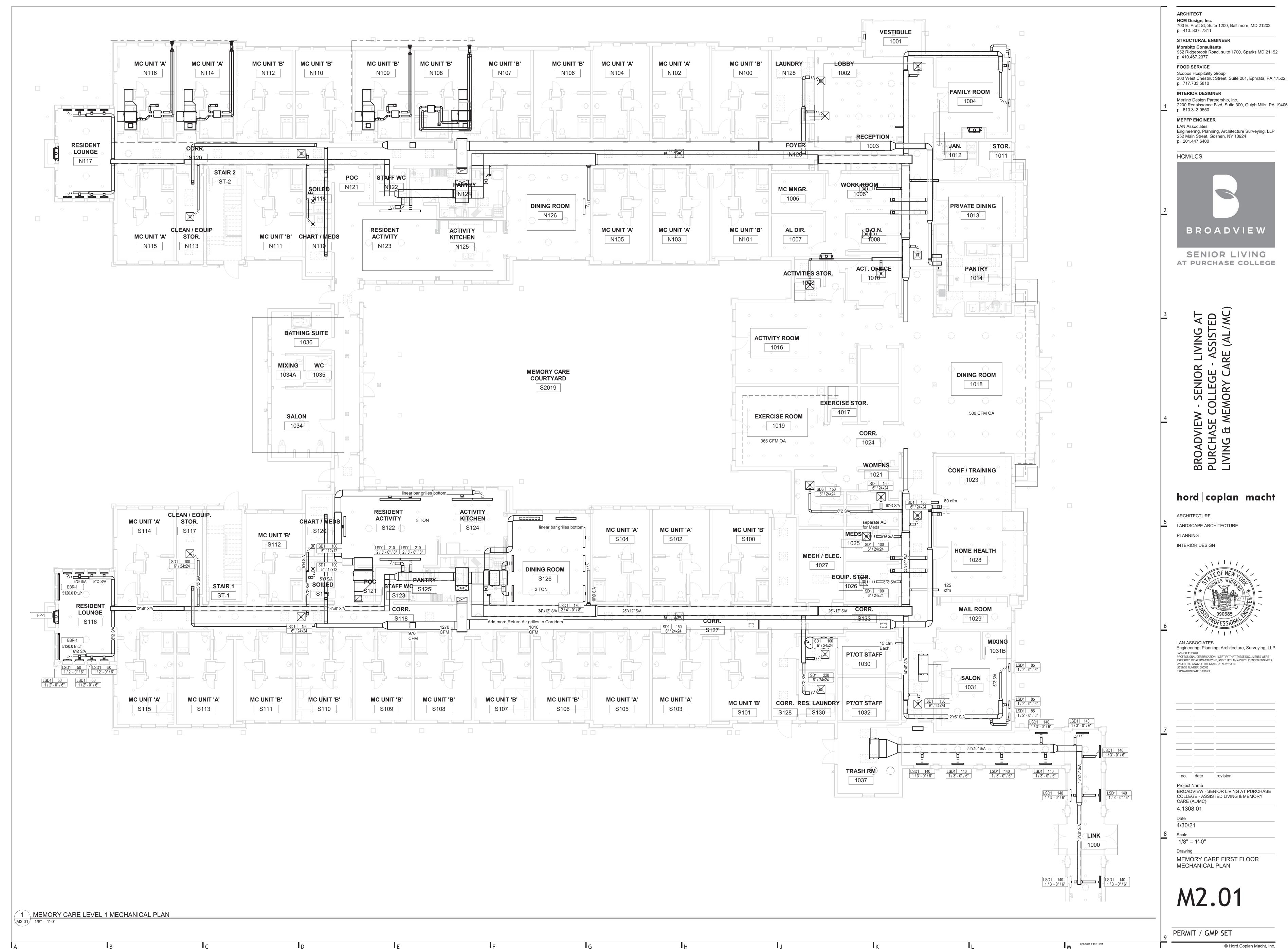
Mechanical Notes & Symbols

M0.01

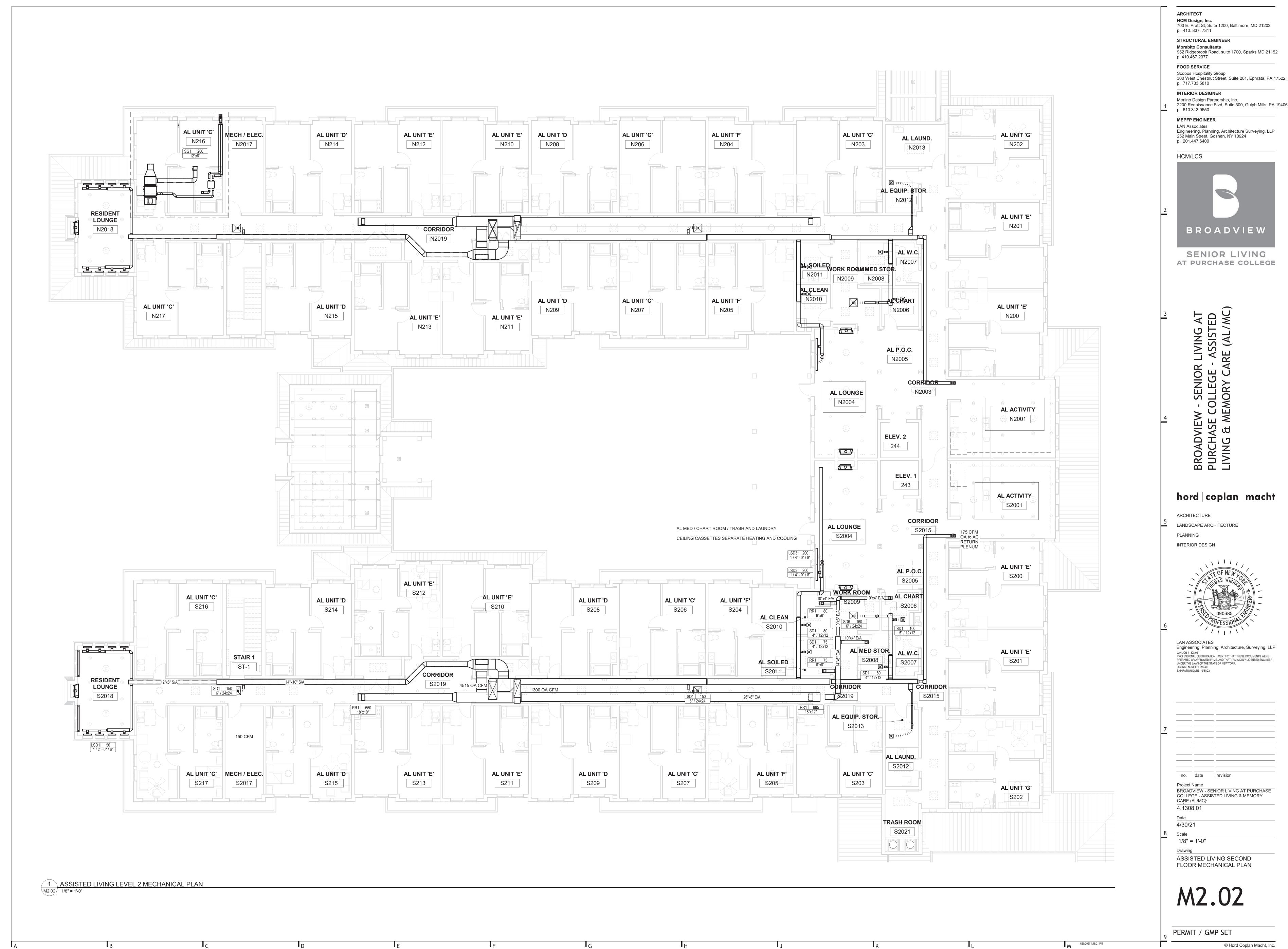
PERMIT / GMP SET

© Hord Coplan Macht, Inc.

4/30/2021 4:47:48 PM









SENIOR LIVING



**ARCHITECT** 

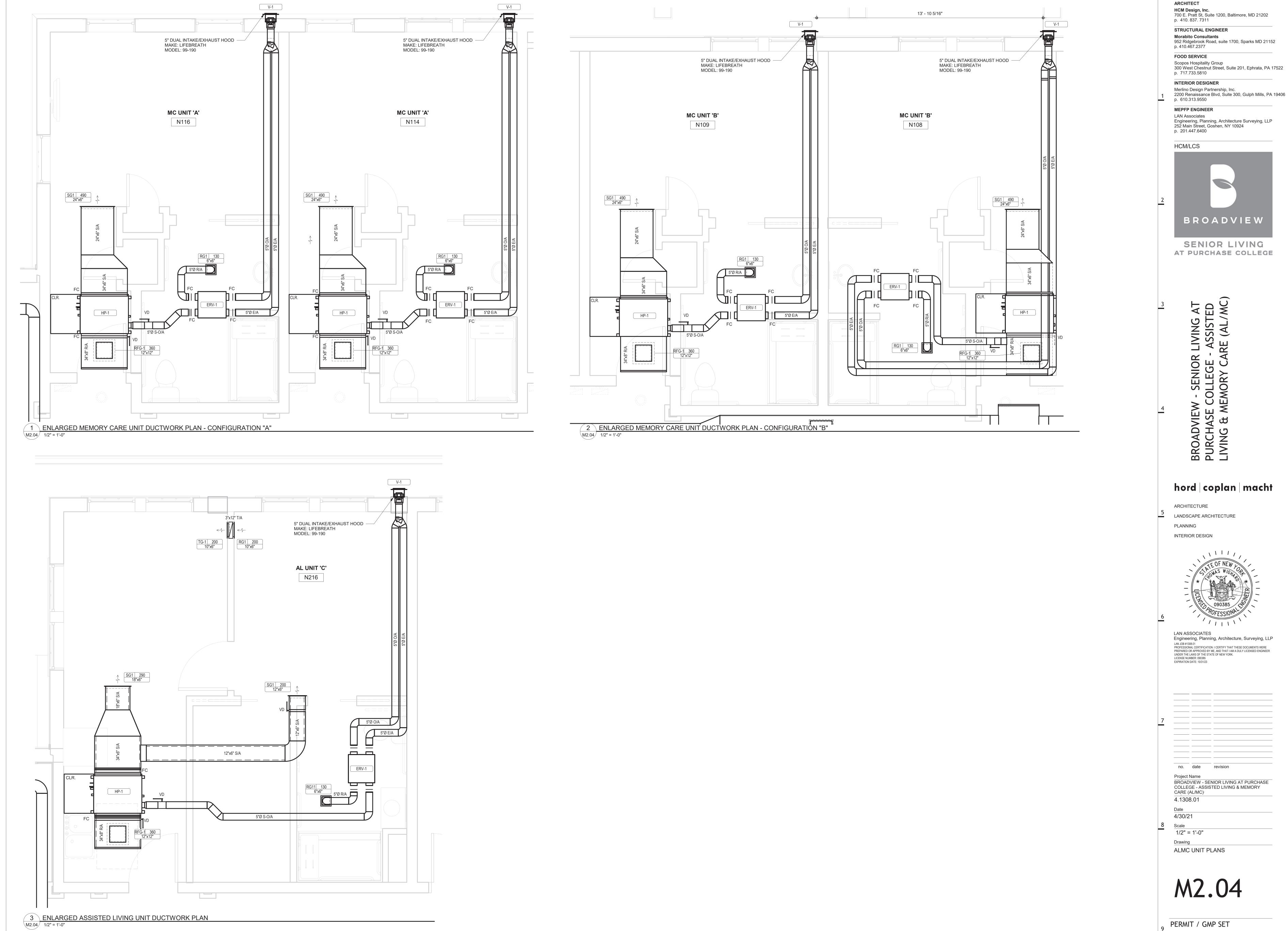


SENIOR LIVING

4/30/2021 4:48:50 PM

PERMIT / GMP SET

© Hord Coplan Macht, Inc.



SENIOR LIVING

LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP

© Hord Coplan Macht, Inc.

4/30/2021 4:48:52 PM

# PACKAGED ROOFTOP DEDICATED OUTSIDE AIR SYSTEM WITH GAS-FIRED HEATING & DX COOLING SCHEDULE

								1 / (			1100	,, , ,			<i>)</i>	.D 00		. / \  \ \		. —		3/ (0 1		1 1 1 1 1 1	/	, a D	/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	O LIII									(TRANE AS STANDARD)
					MIN	SUPP	LY FAN DA	TA		ı	DX COOLING					S HEATING				ENERGY REC	OVERY W	/HEEL		COI	MPRESSOR	CONDENS	ER FANS P	WER EXH	UST FAN	ELEC	TRICAL DA	TA	EFFICIENCY	LINIT			
TAG NO.	AREA SERVED	MFGR.	MODEL No.	SUPPLY (CFM)	OUTDOOR AIR (CFM)	EXT SP (IN) BH	P MHP	VFD	COOLING (TMBH)	GOOLING (SMBH)	EADB E	AWB LAD	DB LAWB (°F)	INPUT (MBH)	OUTPUT (MBH)	EAT C°F	MIN GAS PRESSUR	E EADB EA	OOLING WB LADB LA	HEATIN AWB EADB EAWB LA	IG DB LAWB	RECOVERED COOLING (TMBH)	RECOVERED HEATING (MBH)	NO.	RLA	NO.	AMPS N	O. MHP	VFD	V/PH/HZ	MCA	МОР	EER	UNIT DIMENSIONS (L x W x H) (IN)	APPROX. UNIT WEIGHT (LBS)	REFRIGERANT TYPE	REMARKS
DOAS-N	ALMC	TRANE	OAGD180A4	3,900	3,900	1.5 (2) 4	.10 6	ECM	176.9	122.7	81 (	67.2 52.	.5 52.3	500	400 3	8.7 133.7	7" - 14" W.	C. 91.0 73	3.0 81.0 6	67.1 0 -2 38	.7 36.3	81.79	241.17	2	12.2 / 12.6	2	2.1	1 6	ECM	460/3/60	54.6	60	12.6	208 x 74 x 67	4,378	R410A	SEE NOTES
DOAS-S	ALMC	TRANE	OAGD180A4	3,900	3,900	1.5 (2) 4	.10 6	ECM	176.9	122.7	81 (	67.2 52.	.5 52.3	500	400 3	8.7 133.7	7" - 14" W.	C. 91.0 73	3.0 81.0 6	67.1 0 -2 38	.7 36.3	81.79	241.17	2	12.2 / 12.6	2	2.1	1 6	ECM	460/3/60	54.6	60	12.6	208 x 74 x 67	4,378	R410A	SEE NOTES

ALL UNITS SHALL BE PROVIDED WITH MODULATING GAS HEAT CONTROL. TURN DOWN RATIO 10:1.

ALL MOTORS SHALL BE PREMIUM EFFICIENCY TYPE. PROVIDE W/ CONDENSER FAN COIL GUARDS, NON-FUSED DISCONNECT SWITCH, & GFI CONVENIENCE OUTLET FOR EACH UNIT.

ALL UNIT SHALL BE PROVIDED W/ A MIN OF 24" HIGH SPRING VIBRATION ISOLATION ROOF CURBS. ALL UNITS SHALL BE PROVIDED WITH MIN TWO STAGED COOLING WITH DIGITAL SCROLL COMPRESSOR ON THE LEAD CIRCUIT.

ALL UNITS SHALL BE PROVIDED W/ DUAL ENTHALPY FULLY MODULATING POWER EXHAUST ECONOMIZER CONTROLS W/ STATI-TRAC BUILDING PRESSURIZATION, OUTDOOR AIR HOOD, EXHAUST DISCHARGE DAMPERS & HOOD.

INTERNAL AUTOMATIC TEMPERATURE CONTROLS SHALL BE PROVIDED BY ATC CONTRACTOR. THE ATC CONTRACTOR SHALL SHIP THE DDC CONTROLS FOR ALL UNITS TO THE UNIT MANUFACTURER FOR FACTORY MOUNTING. THE ATC CONTRACTOR SHALL PROVIDE, MOUNT, AND WIRE ALL EXTERNAL COMPONENTS. ALL UNITS SHALL BE TIED INTO NEW BUILDING MANAGEMENT SYSTEM (BMS). REFER TO ATC DIAGRAMS AND SPECIFICATIONS. ALL SHALL BE PROVIDED W/ FULLY MODULATING POWER EXHAUST ECONOMIZER FAN, ECONOMIZER HOOD & DAMPERS.

ALL UNITS SHALL BE PROVIDED W/ 4" MERV 13 FILTERS & TWO (2) SETS OF SPARE FILTERS OF ALL TYPES.

ELECTRICAL SUBCONTRACTOR TO PROVIDE DUCT SMOKE DETECTOR IN RETURN AIR DUCT MAIN FOR EACH UNIT. INTERLOCK RTUs WITH FIRE ALARM SYSTEM. RTUs SHALL BE SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.

PROVIDE ONE-YEARS PART & LABOR WARRANTY FROM THE MANUFACTURER. PROVIDE MODULATING HOT GAS REHEAT FOR ALL RTUS. PROVIDE W/ A S.S. FLUE VENT EXTENSION FOR EACH UNIT.

	OUTDOOR AIR-COOLED HEAT PUMP CONDENSING UNIT SCHEDULE															
TAG	LOCATION	UNITS SERVED	QTY.	COOLING (TMBH)	AMBIENT TEMP (°F)	SUCTION TEMP (°F)	ELECTRICAL DATA V - Ph - Hz		МОР	SEER	EER	DIMENSIONS (H x W x D) (In.)	APPROX. WEIGHT (Lbs)	MODEL	MFR.	NOTES
CU-1	ROOF	HP-1	68	10.8	-4 / 115	80 / 67	208 - 1 - 60	9.1	15	19.3	14.1	34 5/8" x 33 1/16" x 13"	148	SUZ-KA12NHAZ	MITUSBISHI	SEE NOTES BELOW
CU-2	ROOF	HP-2	6	18.0	-4 / 115	80 / 67	208 - 1 - 60	16.5	25	16.7	13.0	37 1/8" x 37 1/2" x 14 1/4"	82	SUZ-KA24NHAZ	MITUSBISHI	SEE NOTES BELOW

NOTES: PROVIDE WITH LOW AMBIENT CONTROL TO 0°F, PATE EQUIPMENT ROOF SUPPORT, INTERLOCK WITH RESPECTIVE INDOOR UNIT.

		S	PLIT I	NDO	OR	AIR	-CO	NDITIO	ONING	6 /	HE	EAT PUMP U	INIT	SCHE		TSUBISHI AS STANDARD)
TAG	LOCATION	QTY.	TYPE	SERVED C		HEATING (TMBH)	ESP INCH W.G.	ELECTRICAL DATA V - Ph - Hz	CFM HIGH / LOW	MCA	МОР	DIMENSIONS (H x W x D) (In.)	APPROX. WEIGHT (Lbs)	MODEL	MFR.	NOTES
HP-1	ALL AL & MC UNITS	68	CEILING CONCEALED	CU-1	10.8	13.6	0.6	208 - 1 - 60	490 / 320	1.45	15	9 7/8" x 35 1/2" x 28 7/8"	64	PEAD-A12AA7	MITSUBISHI	SEE NOTES BELOW
HP-2	ASSISTED LIVING	6	CEILING CONCEALED	CU-2	18.0	20.0	0.8	208 - 1 - 60	635 / 529	1.6	15	9 7/8" x 35 1/2" x 28 7/8"	80	PEAD-A24AA7	MITSUBISHI	SEE NOTES BELOW

NOTES:
PROVIDE REMOTE CONTROLLER, PROPER REFRIGERANT CHARGE. INTERLOCK WITH RESPECTIVE CONDENSING UNIT. PROVIDE WITH MINI CONDENSATE PUMP. PROVIDE WITH CONDENSATE DRAIN WATER-LEVEL DETECTOR SWITCH TO PREVENT ANY DAMAGE TO ANY BUILDING COMPONENT AS A RESULT OF OVERFLOW FROM THE EQUIPMENT PRIMARY DRAIN.

		COM	IMO	NS GEI	NEF	RAL	E	KHAL	JST F	AN SCI	HED	ULE	
													( <b>GREENHECK</b> AS STANDARD)
UNIT No.	AREA SERVED	TYPE	CFM	SP LOSS (IN)		ELECTF	RICAL D	ATA	DIMENSIONS	WALL OPENING DIMENSIONS	UNIT WEIGHT	MANUFACTURER & MODEL	REMARKS
				,	BHP	AMPS	HP	V-PH-Hz	(∅ x H) (ln.)	(LxH) (IN.)	(LBS)		
EF-1	MC NORTH KITCHEN	INLINE	225	0.375	0.03	2.6	1/10	115/1/60	22 x 15	12.5x12.5	31	GREENHECK CUE-090-VG	SEE NOTES BELOW
EF-2	MC SOUTH KITCHEN	INLINE	225	0.375	0.03	2.6	1/10	115/1/60	22 x 15	12.5x12.5	31	GREENHECK CUE-090-VG	SEE NOTES BELOW
EF-3	FIRST FLOOR TOILETS	INLINE	200	0.375	0.04	2.6	1/10	115/1/60	22 x 15	12.5x12.5	31	GREENHECK CUE-090-VG	SEE NOTES BELOW
EF-4	SALON	INLINE	300	0.375	0.04	2.6	1/10	115/1/60	22 x 15	12.5x12.5	31	GREENHECK CUE-090-VG	SEE NOTES BELOW

NOTES:
PROVIDE BACKDRAFT DAMPER, HANGING SUPPORTS WITH VIBRATION ISOLATORS, AND DISCONNECT SWITCH. PROVIDE SEPARATE WALL SWITCH IN SAME

				ENE	RG	YRE	COVERY VE	ENTILATOR	R SCH	HED	ULE		(LIFEBREATH	AS STANDARD)
							ENERGY REC	OVERY WHEEL	FAN	DATA			ELECTRICAL	
LINIT No	QTY	AREAS SERVED	MFG'R.	MODEL No.	SA	EXHAUST AIR	SENSIBLE EFFICIENCY	TOTAL EFFICIENCY			APPROX.	UNIT	ELECTRICAL	REMARKS
UNIT No.	QII	AREAS SERVED	IVIFG R.	MODEL NO.	(CFM)	(CFM)	AT	AT	EXT. S.P."	WATTS	UNIT WT. (LBS)	DIMENSIONS (LxWxH) (IN.)	V/PH/HZ	REWARKS
						(3111)	32°F	90°F			()	(=:::::::)	V/1 11/11/2	
ERV-1	68	ALL AL & MC UNITS	LIFEBREATH	120ERV-ECM	130	130	73%	52%	0.4	74	67	20-3/4 x 19-3/8 x 9-3/4	120/1/60	SEE NOTES
NOTES:									<u>'</u>					

1. PROVIDE HINGED ACCESS DOORS, NON-FUSED DISCONNECT SWITCH, MOTORIZED DAMPERS.

2. ALL MOTORS SHALL BE PREMIUM EFFICIENCY TYPE. 3. THE UNIT SHALL HAVE HUMIDITY CONTROL.

4. THE UNIT SHALL HAVE A 99-DXPL02 WALL CONTROL. 5. THE UNIT SHALL HAVE A 99-EAG8 TECHGRILLE.

				TOILET E	EXHAL	JST FA	AN SCH	IEDI	JLE	( <u>BRAU</u>	<u>N</u> AS STANDARD)
UNIT No.	QTY	AREA SERVED	LOCATION	CFM S.P. LOSS (IN)	ELECTR AMPS	ICAL DATA V-PH-Hz	DIMENSIONS (LxWxH) (ln.)	OUTLET DUCT	UNIT WEIGHT (LBS)	MANUFACTURER & MODEL	REMARKS
TX-A		REFER TO PLANS	CEILING MTD	80 0.10	1.6	120/1/60	8 x 8-1/4 x 5-3/4	4"	15	BRAUN 761BN	SEE NOTES
		*		GHT FIXTURE. USE AS TCH. PROVIDE SEPARA						PER, HANGING SUPPORTS	WITH

**ARCHITECT HCM Design, Inc.** 700 E. Pratt St, Suite 1200, Baltimore, MD 21202

p. 410. 837. 7311

STRUCTURAL ENGINEER **Morabito Consultants** 

FOOD SERVICE

p. 610.313.9550

952 Ridgebrook Road, suite 1700, Sparks MD 21152 p. 410.467.2377

Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 17522 p. 717.733.5810

INTERIOR DESIGNER Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406

**MEPFP ENGINEER** 

LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400

HCM/LCS



SENIOR LIVING AT PURCHASE COLLEGE

# hord coplan macht

ARCHITECTURE

LANDSCAPE ARCHITECTURE PLANNING INTERIOR DESIGN



PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK.

LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP LAN JOB #1308.01 PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE

LICENSE NUMBER: 090385 EXPIRATION DATE: 10/31/23

no. date revision

BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - ASSISTED LIVING & MEMORY CARE (AL/MC) 4.1308.01

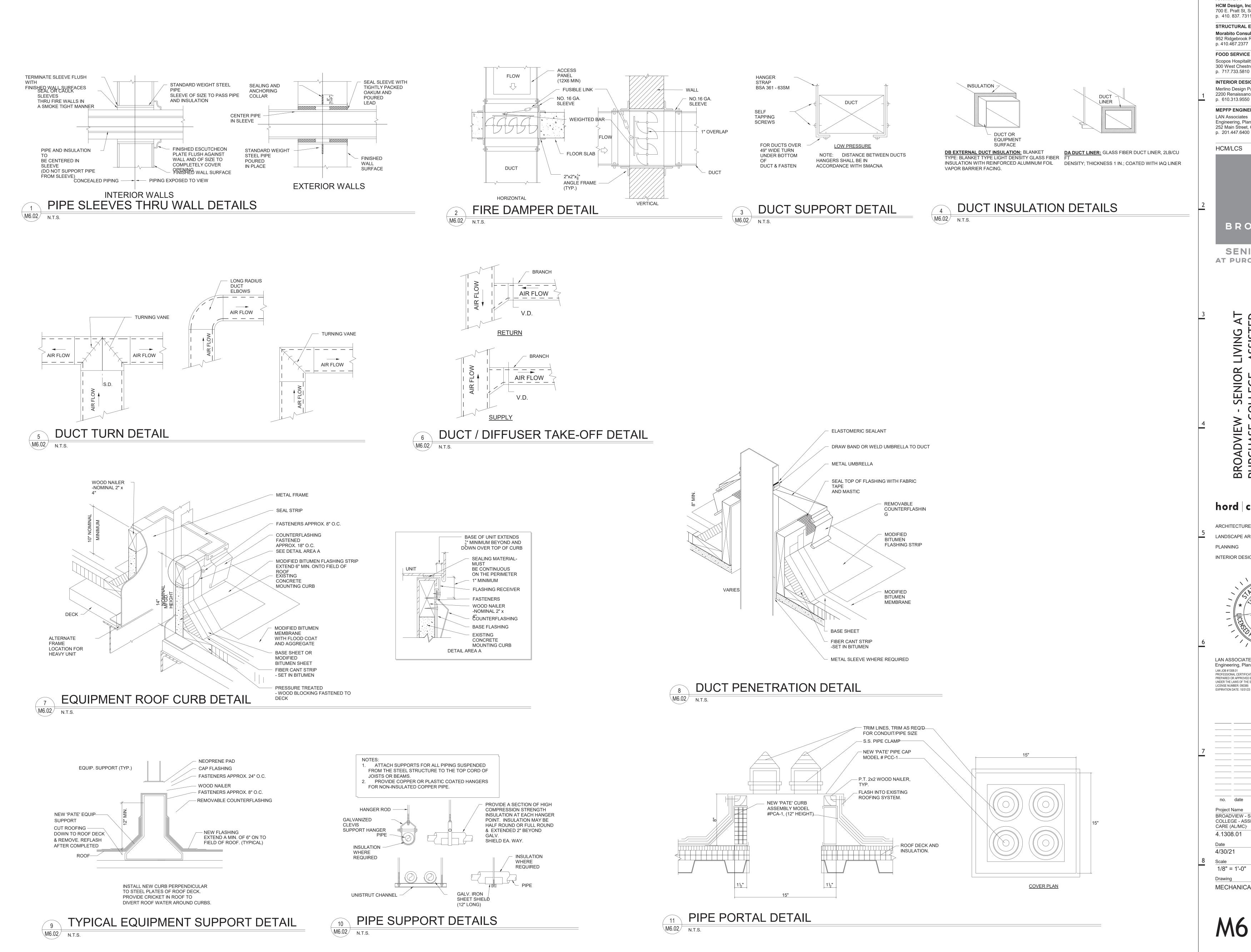
1/8" = 1'-0"

MECHANICAL SCHEDULES

M6.01

PERMIT / GMP SET

4/30/2021 4:48:59 PM



**ARCHITECT** HCM Design, Inc. 700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410.837.7311

STRUCTURAL ENGINEER **Morabito Consultants** 952 Ridgebrook Road, suite 1700, Sparks MD 21152

p. 410.467.2377 FOOD SERVICE

Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 17522 p. 717.733.5810 **INTERIOR DESIGNER** 

Merlino Design Partnership, Inc. 2200 Renaissance Blvd, Suite 300, Gulph Mills, PA 19406 p. 610.313.9550

**MEPFP ENGINEER** 

LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924 p. 201.447.6400

HCM/LCS



SENIOR LIVING AT PURCHASE COLLEGE

hord coplan macht

ARCHITECTURE

LANDSCAPE ARCHITECTURE PLANNING INTERIOR DESIGN

LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLP PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF NEW YORK. LICENSE NUMBER: 090385

no. date revision BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - ASSISTED LIVING & MEMORY

CARE (AL/MC) 4.1308.01 4/30/21

Scale

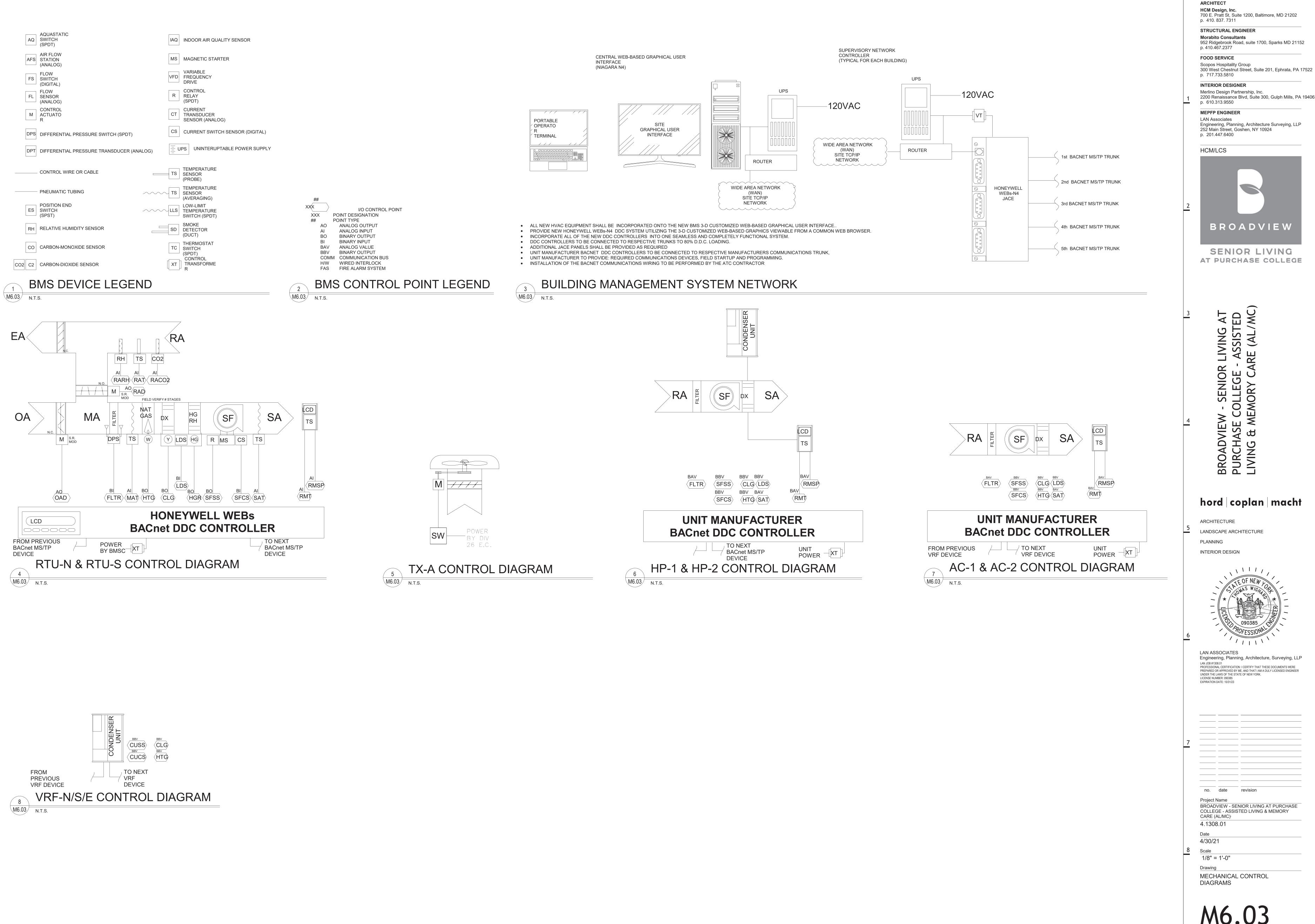
1/8" = 1'-0" Drawing MECHANICAL DETAILS

M6.02

4/30/2021 4:49:01 PM

PERMIT / GMP SET

© Hord Coplan Macht, Inc.



700 E. Pratt St, Suite 1200, Baltimore, MD 21202 p. 410.837.7311 952 Ridgebrook Road, suite 1700, Sparks MD 21152

STRUCTURAL ENGINEER **Morabito Consultants** 

p. 410.467.2377 FOOD SERVICE

Scopos Hospitality Group 300 West Chestnut Street, Suite 201, Ephrata, PA 17522 p. 717.733.5810

**INTERIOR DESIGNER** Merlino Design Partnership, Inc.

**MEPFP ENGINEER** LAN Associates Engineering, Planning, Architecture Surveying, LLP 252 Main Street, Goshen, NY 10924

HCM/LCS



SENIOR LIVING AT PURCHASE COLLEGE

# hord coplan macht

ARCHITECTURE

LANDSCAPE ARCHITECTURE

PLANNING INTERIOR DESIGN

LAN ASSOCIATES Engineering, Planning, Architecture, Surveying, LLF PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER

BROADVIEW - SENIOR LIVING AT PURCHASE COLLEGE - ASSISTED LIVING & MEMORY

CARE (AL/MC) 4.1308.01

1/8" = 1'-0"

MECHANICAL CONTROL DIAGRAMS

PERMIT / GMP SET

4/30/2021 4:49:04 PM

© Hord Coplan Macht, Inc.