GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC. INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER
- THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS. FIELD VERIFY ALL DIMENSIONS AND ALL CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN
- WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
 - THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
 - CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WORK OF ALL SUBCONTRACTORS TO AVOID INTERFERENCES.
- . ALL WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
- COORDINATE AND SEQUENCE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE
- 0. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS
- 1. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE. 12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF
- CONSTRUCTION. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS.
- PRODUCT DATA AND SAMPLES". 14. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR
- BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF. 5. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.

ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS

- 16. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS
- 7. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED. 18. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
- 19. ALL ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 130 MPH WIND
- 20. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES
- 1. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- 22. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS. 23. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM
- DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS. 24. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE ALL
- REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE ALL WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE
- 25. EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED. PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY. 26. REMOVE AND REPAIR OR RE-INSTALL EXISTING CEILING ASSEMBLIES AS REQUIRED. REPLACE ANY

ASSEMBLIES DAMAGED OR SOILED DURING CONSTRUCTION.

- . PROVIDE PROPER PROTECTIVE MEASURES TO PROTECT EXISTING FURNITURE, CARPET AND FINISHES DURING THE COURSE OF CONSTRUCTION. TAKE CARE NOT TO DAMAGE EXISTING SURFACES. REPAIR TO MATCH EXISTING CONDITIONS AS REQUIRED. 28. SEAL ALL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES
- WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED. 29. ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED
- IN ACCORDANCE WITH LOCAL REGULATIONS. 30. ITEMS REMOVED AND SAVED FOR REUSE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, CONTRACTOR SHALL IDENTIFY ANY DEFECTIVE MATERIALS PRIOR TO
- DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO MATERIALS AT PROJECT COMPLETION NOT IDENTIFIED PRIOR TO DEMOLITION. 1. RELOCATE, AS REQUIRED, ANY EXISTING WIRE AND CONDUIT WHICH INTERFERES WITH
- INSTALLATION OF THE NEW WORK. 32. REMOVE ALL ELECTRICAL EQUIPMENT (CONDUIT, POWER & CONTROL WIRING, DISCONNECT
- SWITCHES, STARTERS, ETC.) RELATED TO EQUIPMENT BEING REMOVED OR REPLACED. 3. CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP, CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH

SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

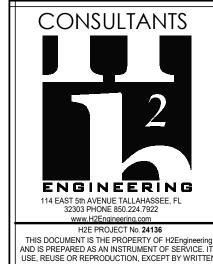
ABBREVIATIONS

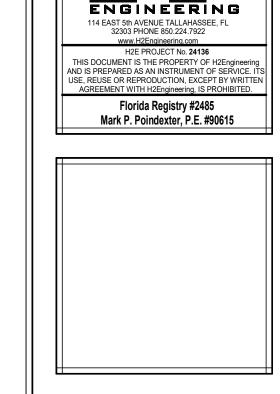
AFF	ABOVE FINISHED FLOOR	MOCP	MAXIMUM OVERLOAD PROTECT
AHAP	AS HIGH AS POSSIBLE	N/A	NOT APPLICABLE
AHU	AIR HANDLING UNIT	NIS	NOT IN SCOPE
BAS	BUILDING AUTOMATION SYSTEM	OA	OUTSIDE AIR
BHP	BRAKE HORSEPOWER	RA	RETURN AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	RAG	RETURN AIR GRILLE
С	CONDENSATE	RAR	RETURN AIR REGISTER
CC	COOLING COIL	REF	REFRIGERANT
CFM	CUBIC FEET PER MINUTE	RPM	REVOLUTIONS PER MINUTE
CU	CONDENSING UNIT	SA	SUPPLY AIR
DDC	DIRECT DIGITAL CONTROL PANEL	SF	SUPPLY FAN
DN	DOWN	SMS	SHEET METAL SIZE
EA	EXHAUST AIR	SP	STATIC PRESSURE
EAG	EXHAUST AIR GRILLE	SQ FT	
EF	EXHAUST FAN	TAG	TRANSFER AIR GRILLE
F	FEET	TAS	TRANSFER AIR SLEEVE
°Fdb	DEGREES FAHRENHEIT DRY BULB	TYP	TYPICAL
°Fwb	DEGREES FAHRENHEIT WET BULB	UG	UNDERGROUND
FMB	FILTER MIXING BOX	UNO	UNLESS NOTED OTHERWISE
FPM	FEET PER MINUTE	V	VALVE
GPH	GALLONS PER HOUR	VAV	VARIABLE AIR VOLUME
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
IN	INCHES	WG	WATER GAUGE

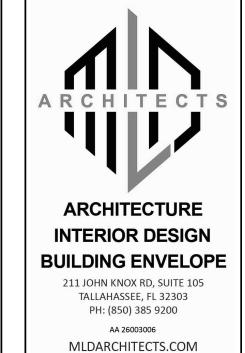
DRAWING INDEX

MINIMUM CIRCUIT AMPACITY

אט	AVVING INDEX
M001	GENERAL NOTES, LEGENDS & SCHEDULES
MD101	DEMOLITION PLAN
M101	RENOVATION PLAN
M301	RISER DIAGRAM - GAS
M401	SCHEDULES
M501	DETAILS
M502	DETAILS







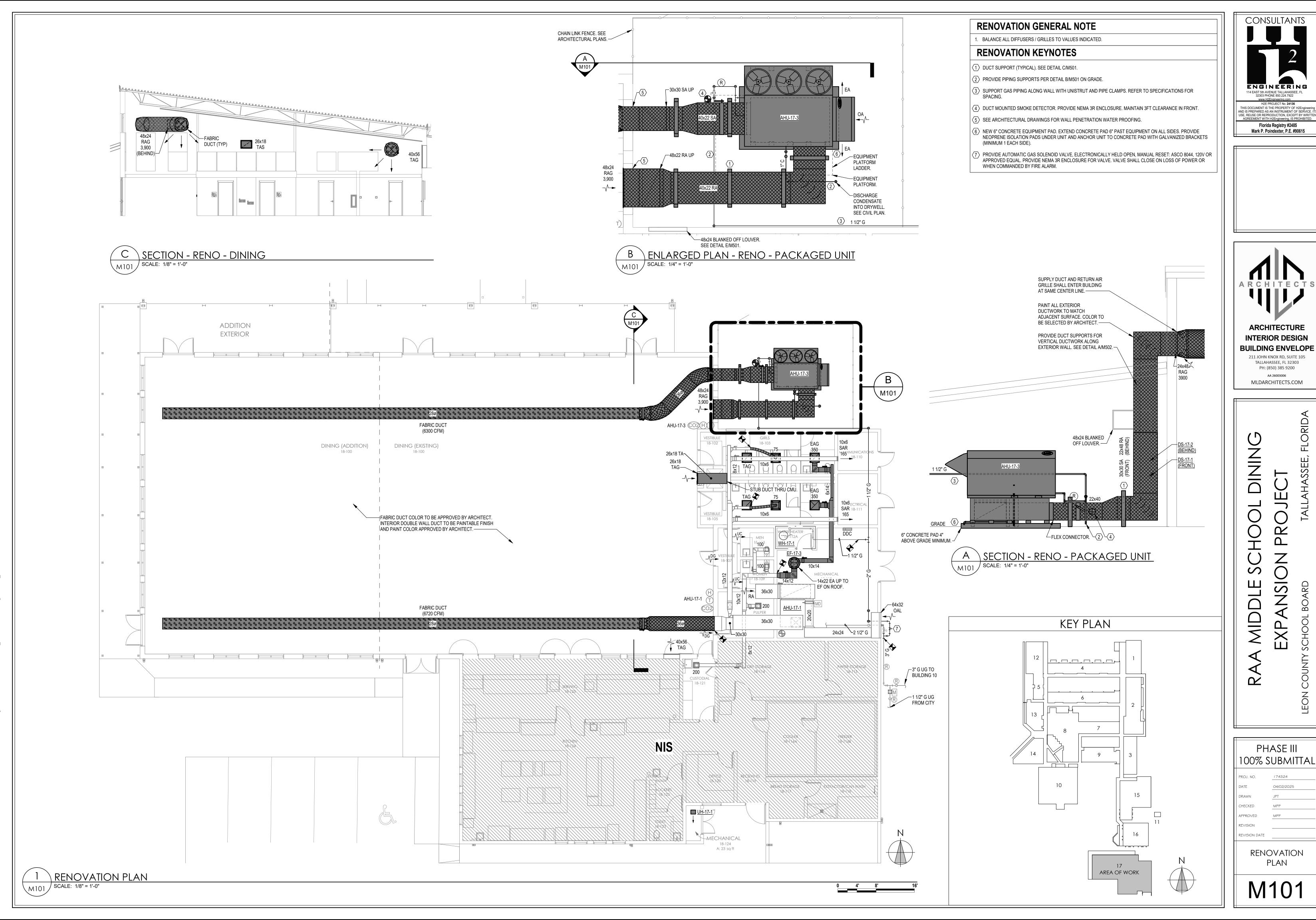
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PHASE III 100% SUBMITTAL

04/02/2025 CHECKED REVISION

REVISION DATE GENERAL NOTES, LEGENDS & SCHEDULES

AA 26003006



CONSULTANTS

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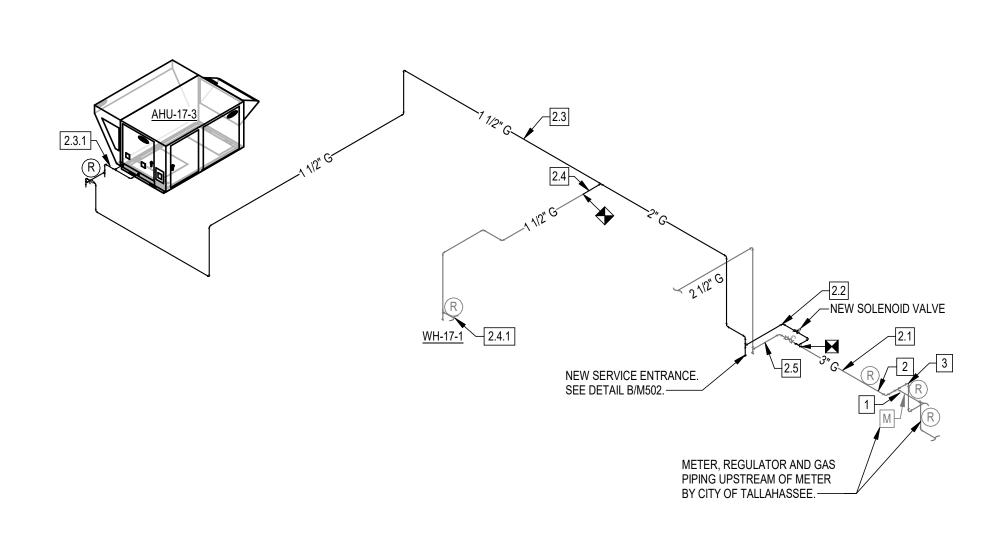
DINING

TALLAHASSEE, FL 32303 PH: (850) 385 9200

RISER DIAGRAM -GAS

M301

GAS PIPE SCHEDULE PIPE LENGTH FOR FITTINGS TOTAL LENGTH PIPE SIZE PIPE SECTION CAPACITY FUEL GAS TYPE **EQUIPMENT** (MBH) PRESSURE (FT) NATURAL GAS 3,930 2 PSI BLDG 10 &17 KITCHEN HOOD, 1,530 NATURAL GAS WH-17-1, AHU-17-3 KITCHEN HOOD, WH-17-1, AHU-17-3 NATURAL GAS 1,530 SEE NOTE 2 2.2 NATURAL GAS 570 SEE NOTE 2 WH-17-1, AHU-17-3 104 135 163 2.3 NATURAL GAS 270 SEE NOTE 2 AHU-17-3 74 89 1 1/2 2.3.1 270 NATURAL GAS AHU-17-3 48 2.4 NATURAL GAS 300 SEE NOTE 2 WH-17-1 26 28 54 1 1/2 2.4.1 NATURAL GAS 300 7 IN WC WH-17-1 2 2 1/2 NATURAL GAS 960 SEE NOTE 2 KITCHEN HOOD 23 NATURAL GAS 2,400 2 PSI BLDG 10 3 GAS PIPING SIZED USING LONGEST LENGTH METHOD FROM POINT OF DELIVERY TO EITHER REGULATOR OR APPLIANCE. LESS THAN 2 PSI ASSUMED.



1 RISER DIAGRAM - GAS

Raa	
SS	
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_	

DESIGNAT	DESIGNATION		UH-17-1
	CAPACITY	KW	2.25
	NUMBER OF STAGES	#	1
	AIR QUANTITY	CFM	300
	AIR TEMPERATURE RISE	°F	23.5
	ELECTRICAL CHARACTERISTICS	V/PH	208 / 1
	MOUNTING HEIGHT (A.F.F.)	FT.	6
//ANUFAC	TURER (BASIS OF DESIGN)	1	REZNOR

MODEL NUMBER

- PROVIDE UNITS WITH MOUNTING HARDWARE.
- PROVIDE UNITS WITH BUILT-IN THERMOSTAT. SET THERMOSTAT PER MANUFACTURER INSTRUCTIONS TO MAINTAIN 40 DEGREE FAHRENHEIT.

EGW

VENTILATION RATE							
		EXHAUST AIR	OUTSIE	DE AIR			
TYPE OF SPACE		CFM / FT ₂	CFM / PERSON	CFM / FT ₂			
	CAFETERIA / FAST FOOD DINING		7.5	0.18			
	TOILET (PUBLIC)	50/70	0	0.00			
NOTES: 1	VENTILATION RATES FOR SPACES WITH INTERMITTENT OCCUPANCY (PEAK OC ON AVERAGE OCCUPANCY DURING THE OCCUPIED PERIOD, BUT NOT LESS THA						
2	VENTILATION RATES CALCULATED PER REQUIREMENTS OF FBC, MECHANICAL	2023.					
3	EXHAUST IS PER WATER CLOSET AND/OR URINAL. HIGHER RATE USED.						

DESIG	ON CONDITIONS						
OUTDOOR (CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)						
	COOLING (0.4% ANNUAL)	°Fdb	-	°Fwb	96.2	-	76.2
	HEATING (99.6% ANNUAL)		°Fdb)		25.0	
INDOOR CO	ONDITIONS - SUMMER	'					
	CAFETERIA	°Fdb	-	%RH	75	-	50
INDOOR CO	ONDITIONS - WINTER	'					
	CAFETERIA	°Fdb	-	%RH	70	-	30

DESIGNATIO	V		[DS-17-	1	Г	DS-17-	-2
	TYPE		DIS	SIPAT	IVE	DIS	SIPAT	ΓIVE
	SHAPE		REC	TANG	JLAR	REC	TANG	ULAR
	CONFIGURATION		i	ELBOV	٧	E	ELBOV	N
	FLOW DIRECTION (NOTE1)		FC	RWA	RD	RI	EVER	SE
	FACE DIMENSION (WIDTH x HEIGHT / or DIAMETER)	IN x IN.	30	Х	30	22	Х	48
	LENGTH	IN.		120			120	
	INLET LEG (NOTE 4)	IN.		40			113	
	OUTLET LEG (NOTE 4)	IN.		110			41	
	MAXIMUM AIRFLOW	CFM		6,300			6,300	ı
	MAXIMUM PRESSURE DROP (INCLUDING SYSTEM EFFECTS)	INCH W.G.		0.23			0.21	
OCTAVE BAN	D DYNAMIC INSERTION LOSS / GENERATED NOISE (NOTE 2)		T			-		
	63 Hz	dB / dB	13	1	41	20	1	50
	125 Hz	dB / dB	18	1	42	30	1	44
	250 Hz	dB / dB	33	1	35	52	1	38
	500 Hz	dB / dB	51	1	37	55	1	24
	1000 Hz	dB / dB	53	1	37	55	1	39
	2000 Hz	dB / dB	53	1	30	55	1	38
	4000 Hz	dB / dB	47	1	32	51	1	36
	8000 Hz	dB / dB	35	1	23	40	1	27
MANUFACTU	RER			PRICE			PRICE	=

1	FORWARD FLOW INDICATES WHERE NOISE AND AIRFLOW MOVE IN SAME DIRECTIONS. REVERSE FLOW INDICATES WHERE NOISE AND AIRFLOW MOVE IN OPPOSITE DIRECTIONS.
2	DYNAMIC INSERTION LOSS DETERMINED IN ACCORDANCE WITH ASTM E477-99.
3	DYNAMIC INSERTION LOSS DATA SHOWN FOR EACH SILENCER IS BASED ON ACOUSTICAL DATA FROM BASIS OF DESIGN AIR HANDLING UNITS. IF ACOUSTICAL DATA FOR APPROVED ALTERNATE IS DIFFERENT FROM BASIS OF DESIGN, CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING DUCT SILENCERS THAT DO NOT EXCEED GENERATED NOISE REQUIREMENTS FOR EACH OCTAVE BAND, AS INDICATED IN THE SCHEDULE ABOVE. PROVIDE ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMOSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVEL, INCLUDING AIRBORNE AND BREAKOUT NOISE, IN THE OCCUPIED SPACES, MEET NC 30.
4	INDICATED LENGTH APPLIES TO ELBOW SILENCER.

TEST A	AND BALANCE AIR HANDLING UN	IITS (EXIST	ING UNITS)
DESIGNATION			AHU-17-1
DESIGN AIR Q	UANTITIES		
	SUPPLY AIR FLOW	CFM	7,200
	OUTSIDE AIR FLOW	CFM	2,600
DESIGN WATE	ER QUANTITIES		
	HEATING HOT WATER FLOW (PREHEAT)	GPM	N/A
	HEATING HOT WATER FLOW (REHEAT)	GPM	19.8
	CHILLED WATER FLOW	GPM	50.4
DESIGN COOL	ING & HEATING CAPACITIES		
	HEATING CAPACITY (PREHEAT)	MBH	N/A
	HEATING CAPACITY (REHEAT)	MBH	297.3
	TOTAL COOLING CAPACITY	MBH	352.9
NOTES:			
1	PROVIDE PRE TEST AND BALANCE WORK TO DOCUMENT F PERFORMANCE, HEATING PERFORMANCE, AIR FLOW CAPA ELECTRICAL CHARACTERISTICS. TEST FUNCTIONALITY OF REPORT PERFORMANCE OF TESTS TO OWNER AND ENGIN	ACITIES, WATER FLOW UNIT AND ASSOCIATI	CAPACITIES AND
2	EXISTING AIR HANDLING UNIT SCHEDULE INFORMATION; F	ROVIDED FOR REFER	ENCE ONLY.
3	PROVIDE TESTING, ADJUSTING, AND BALANCING (TAB) WO	ORK IN ACCORDANCE	WITH SPECIFICATIONS.
4	BEFORE PERFORMING TESTING AND BALANCING OF EXIST EQUIPMENT THAT IS TO REMAIN AND BE REUSED TO VERICLEANED AND REFURBISHED. VERIFY THE FOLLOWING:		
	A. PROVIDE NEW FILTERS		
	B. COILS ARE CLEAN AND FINS COMBED.		
	C. DRAIN PANS ARE CLEAN.		
	D. FANS ARE CLEAN.		
	E. BEARINGS AND OTHER PARTS ARE PROPERLY LUBRICA	TED.	

5 EXISTING CONTROLS AND SEQUENCE TO REMAIN.

UNIT ELECTRIC	CAL DATA			DAOKA	OFD AID CONDITIONES	
	VOLTAGE / PHASE	V / PH	208 / 3	PACKA	GED AIR CONDITIONER	
	MCA / MOCP	AMPS / AMPS	175 / 200	DESIGNATION		
AHRI EFFICIEN	NCY	IEER	13.2	AREA SERVED		
UNIT WEIGHT		LB	3390	CONTROL CON	NFIGURATION	
UNIT DIMENSIO	ONS	IN. x IN.	110 x 110	AIRFLOWS		
MANUFACTUR	ER		AAON		TOTAL SUPPLY AIR / MINIMUM AIRFLOW	
MODEL NUMBE	ER		RNA-030		OUTSIDE AIR / MINIMUM AIRFLOW	
DETAIL REFER	RENCE		A/M501		RELIEF AIR / MINIMUM AIRFLOW	
NOTES:					HEATING AIRFLOW	
1	PROVIDE UNIT WITH PREMIUM-EFFICIENCY MOTORS.			FILTER SECTION		
2	PROVIDE 0-100% OUTSIDE AIR DAMPER.			FILTER SECTION	JIN	
3	PROVIDE NEMA 3R NON-FUSED DISCONNECT.				PRE-FILTER	
4	PROVIDE PHASE & BROWNOUT PROTECTION.				FINAL FILTER	
5	PROVIDE FIVE YEAR COMPRESSOR, ONE YEAR COMPONENTS AND ONE YEAR LABOR WARRANTY.			SUPPLY FAN SECTION		
8	PROVIDE FACTORY START-UP.				SUPPLY FAN QUANTITY	
9	PROVIDE ONE (1) MODULATING COMPERESSOR.				SUPPLY FAIN QUAINTITY	
10	PROVIDE UNIT POWERED CONVENIENCE OUTLET.				SUPPLY FAN MOTOR (TOTAL)	
11	PROVIDE HAIL GUARD PROTECTION FOR CONDESER COIL.				SUPPLY FAN MOTOR TYPE	
12	PROVIDE STAINLESS STEEL GAS HEAT EXCHANGER.	ATED OUTDOODS AND	CUD IFOT TO		SUPPLY FAN TYPE	
13	PROVIDE SURGE PROTECTION DEVICES FOR SENSOR AND CONTROLS LOCAL ELECTRICAL DAMAGE.	ATED OUTDOORS AND	SUBJECT TO		FAN DRIVE	
14	COAT ALL COILS WITH ANTI-MICROBIAL AND CORROSION RESISTANT COATI	NG.				
15	PROVIDE DOUBLE WALL GROUND MOUNTED CURB, INSULATED.				EXTERNAL STATIC PRESSURE	
16	PROVIDE ION GENERATOR IG-B PER SCHEDULE.				DIRTY PRE-FILTER ALLOWANCE	
CONTROLS:					DIRTY FINAL FILTER ALLOWANCE	
1	PROVIDE TERMINAL STRIP FOR PROVIDING A THIRD PARTY CONTROLLER.				MAX. TOTAL STATIC PRESSURE	
2	PROVIDE SUPPLY AIR TEMPERATURE SENSOR.					
3	PROVIDE OUTSIDE AIR TEMPERATURE AND HUMIDITY SENSOR.				VARIABLE FREQUENCY DRIVE	
4	PROVIDE COOLING COIL LEAVING AIR TEMPERATURE SENSOR.			RELIEF FAN SE	ECTION	
5	PROVIDE SUCTION PRESSURE TRANSDUCER.				RELIEF FAN QUANTITY	
6	PROVIDE OUTSIDE AIRFLOW MEASURING STATION (EBTRON GOLD SERIES).				·	
7	PROVIDE MOTORIZED OUTSIDE AND RETURN AIR DAMPER.				RELIEF FAN MOTOR (TOTAL)	
8	PROVIDE TEMPERATURE AND HUMIDITY SPACE SENSOR.				RELIEF FAN MOTOR TYPE	

PROVIDE STATIC PRESSURE SENSOR.

9 PROVIDE TIE-DOWN EYELETS.

FANS				
DESIGNATION	N		EF-1	17-3
	SERVICE		CLASS EXHA	
	MOUNTING METHOD		RO	OF
	FAN TYPE		CENTRI UPBL	
	AIR FLOW	CFM	1,3	00
	STATIC PRESSURE	IN.	0.	5
	AIRSTREAM TEMPERATURE	DEG F	1,027 DIRECT 1,300	
	FAN SPEED	RPM		
	FAN DRIVE			
	MOTOR SPEED	RPM		
	MOTOR POWER	HP or W		
	MOTOR BRAKE HORSEPOWER	BHP	0.	2
	ELECTRONICALLY COMMUTATED MOTOR		YE	:S
	ELECTRICAL CHARACTERISTICS	V / PH	208	/ 1
	WEIGHT	LBS.	65	
	NOISE LEVEL (RADIATED)	SONES or LwA	8.8	SONES
	STANDARD NOTES		1, 2, 3,	4, 7, 9
MANUFACTU	RER		GREEN	IHECK
MODEL NUME	BER		CUE-1	40-VG
DETAIL REFE	RENCE		G/M	501
NOTES: SEE	E SEQUENCES OF OPERATION ON CONTROL SHEETS			
1	PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED.			
2	PROVIDE SOLID STATE SPEED CONTROLLER, FACTORY MOUNTED.			
3 4	PROVIDE BIRD SCREEN. PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.			
7	PROVIDE PRE-FABRICATED INSULATED ROOF CURB, 12-INCH HIGH WITH DAMI SLOPE.	PER TRAY, SLOPED T	O MATCH F	ROOF

OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
AHU-17-1	2,600	EF-17-1	
AHU-17-2	350	EF-17-2	
AHU-17-3 (NEW)	2,400	EF-17-3 (REPLACED)	
SF-17-1 KITCHEN HOOD	4,200	EF-17-4 KITCHEN HOOD	
		AHU-17-3 (NEW - NOTE 1)	
TOTAL	9,550	TOTAL	
BUILDING PRESSURIZATION	1	(+)	

DESIGNATION			AHU-17-3
AREA SERVED	DINING		
CONTROL CONFIG	GURATION		SZ VAV
AIRFLOWS			
	TOTAL SUPPLY AIR / MINIMUM AIRFLOW	CFM / CFM	6,300 / 3,150
	OUTSIDE AIR / MINIMUM AIRFLOW	CFM / CFM	2,400 / 660
	RELIEF AIR / MINIMUM AIRFLOW	CFM	5,200 / 0
	HEATING AIRFLOW	CFM	2,500
FILTER SECTION			
	PRE-FILTER		2" PLEATED MERV 8
	FINAL FILTER		4" PLEATED MERV 13
SUPPLY FAN SEC	TION		
	SUPPLY FAN QUANTITY	#	1
	SUPPLY FAN MOTOR (TOTAL)	HP - BHP	15.0 – 8.5
	SUPPLY FAN MOTOR TYPE		STANDARD
	SUPPLY FAN TYPE		BACKWARD CURVE
	FAN DRIVE		DIRECT
	EXTERNAL STATIC PRESSURE	IN. WG	1.3
	DIRTY PRE-FILTER ALLOWANCE	IN. WG	0.7
	DIRTY FINAL FILTER ALLOWANCE	IN. WG	0.7
	MAX. TOTAL STATIC PRESSURE	IN. WG	4
	VARIABLE FREQUENCY DRIVE		YES
RELIEF FAN SECT	ION		
	RELIEF FAN QUANTITY	#	1
	RELIEF FAN MOTOR (TOTAL)	HP - BHP	5.0 – 2.7
	RELIEF FAN MOTOR TYPE		STANDARD
	RELIEF FAN TYPE		BACKWARD CURVE
	FAN DRIVE		DIRECT
	EXTERNAL STATIC PRESSURE	IN. WG	0.5
	VARIABLE FREQUENCY DRIVE		YES
COOLING COIL DA	ATA - REFRIGERANT		
	TOTAL COOLING CAPACITY	MBH	323
	SENSIBLE COOLING CAPACITY	MBH	208
	COMPRESSOR QUANTITY	#	2
	AIR ENTERING COOLING COIL	°Fdb - °Fwb	83.1 – 69.2
	AIR LEAVING COOLING COIL	°Fdb - °Fwb	53.0 - 52.5
	CONDENSATE DRAIN SIZE	IN.	1
HOT GAS REHEAT	Г		
	TYPE		MODULATING
	TOTAL CAPACITY	MBH	129.8
	REHEAT COIL ENTERING / LEAVING TEMPERATURE	°Fdb / °Fdb	53 / 72
HEATING COIL DA	TA - GAS		
	FUEL TYPE		NATURAL GAS
	TYPE		MODULATING
	INPUT / OUTPUT CAPACITY	MBH / MBH	270 / 219
	AIR ENTERING HEATING COIL	°Fdb	22

EEDLE	POINT ION GENERATORS		
SIGNATION	IG-B		
	MAXIMUM AIRFLOW CAPACITY	CFM	6,000
	IONIZATION GENERATION		NEEDLE POINT BIPOLAR
	NEEDLE CONFIGURATION		RECESSED
	NUMBER OF BRUSHES	#	BRUSHLESS
	WEIGHT	LBS.	0.3
	ELECTRICAL CHARACTERISTICS	VAC	24
	QUANTITY	#	SEE NOTE 1
ANUFACTURER			PLASMA AIR
DDEL NUMBER			1560
OTES:			
1	INSTALL ION GENERATOR IN AHU FAN INLET PER MANUFACTURER	'S INSTRUCTION.	

ION GENERATOR SHALL BE ENABLED WHEN THE FAN IS RUNNING AND DISABLED WHEN THE FAN IS OFF.

PROVIDE POWER TO ION GENERATOR THRU AHU 24V INTERNAL TRANSFORMER.

AIR LEAVING HEATING COIL

GAS PIPE CONNECTION SIZE / QUANTITY

PROVIDE QUANTITY BASED ON MAXIMUM AIR FLOW.

PHASE III 100% SUBMITTAL

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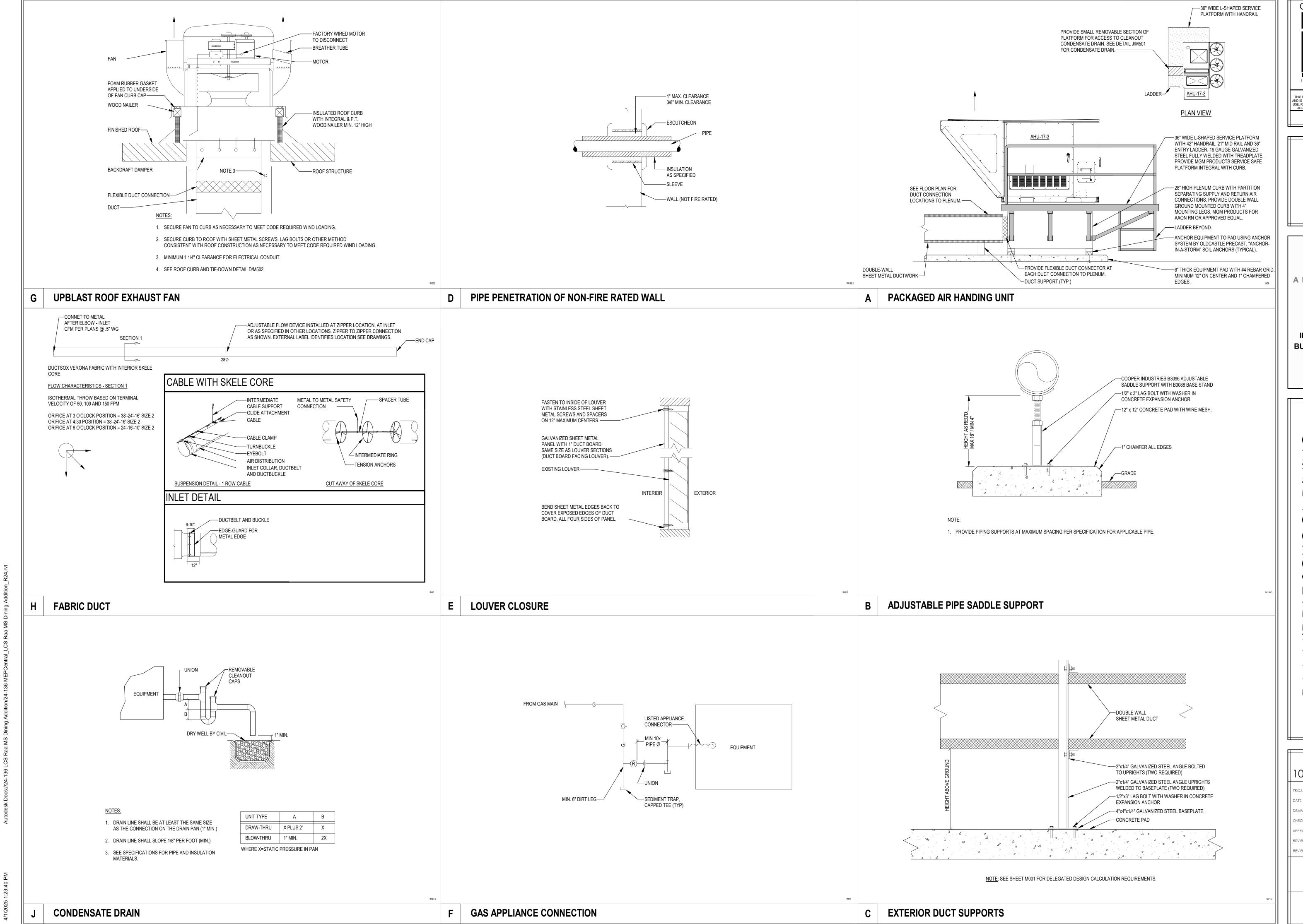
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RAA MIDDLE SCHOOL [EXPANSION PROJE

PHASE III
100% SUBMITTAL

PROJ. NO. 174324

DATE 04/02/2025

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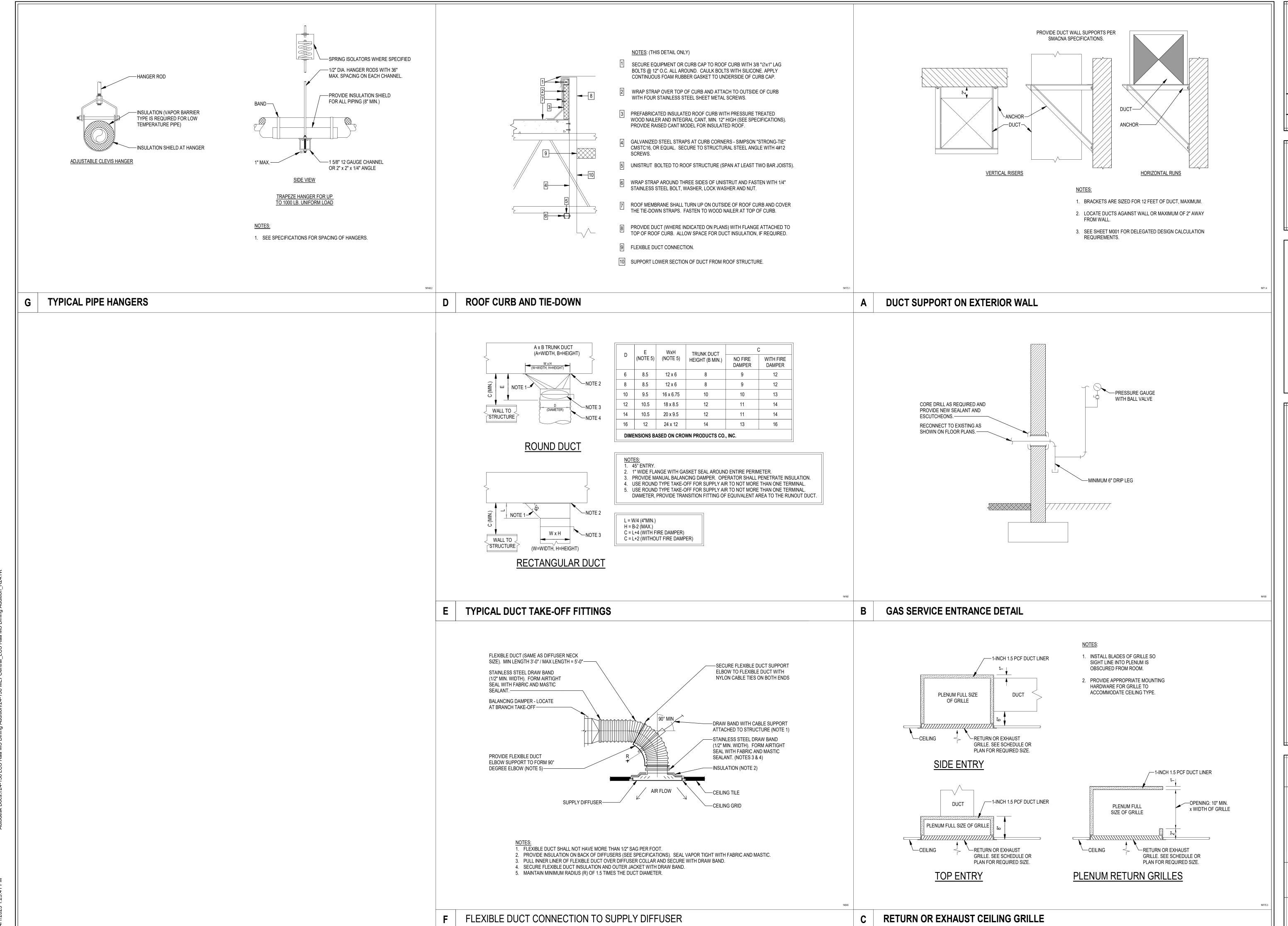
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DETAILS

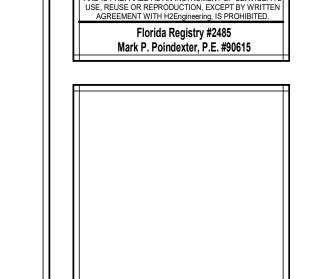


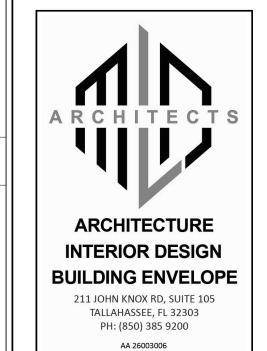
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DDLE SCHOOL DINING PANSION PROJECT

EXPANSIC EON COUNTY SCHOOL BOARD

PHASE III
100% SUBMITTAL

PROJ. NO. 174324

DATE 04/02/2025

DRAWN JPT

CHECKED MPP

APPROVED MPP

REVISION

REVISION DATE

DETAILS

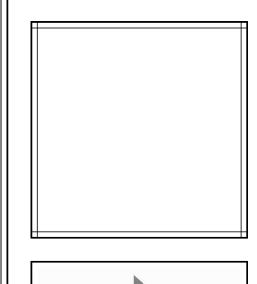
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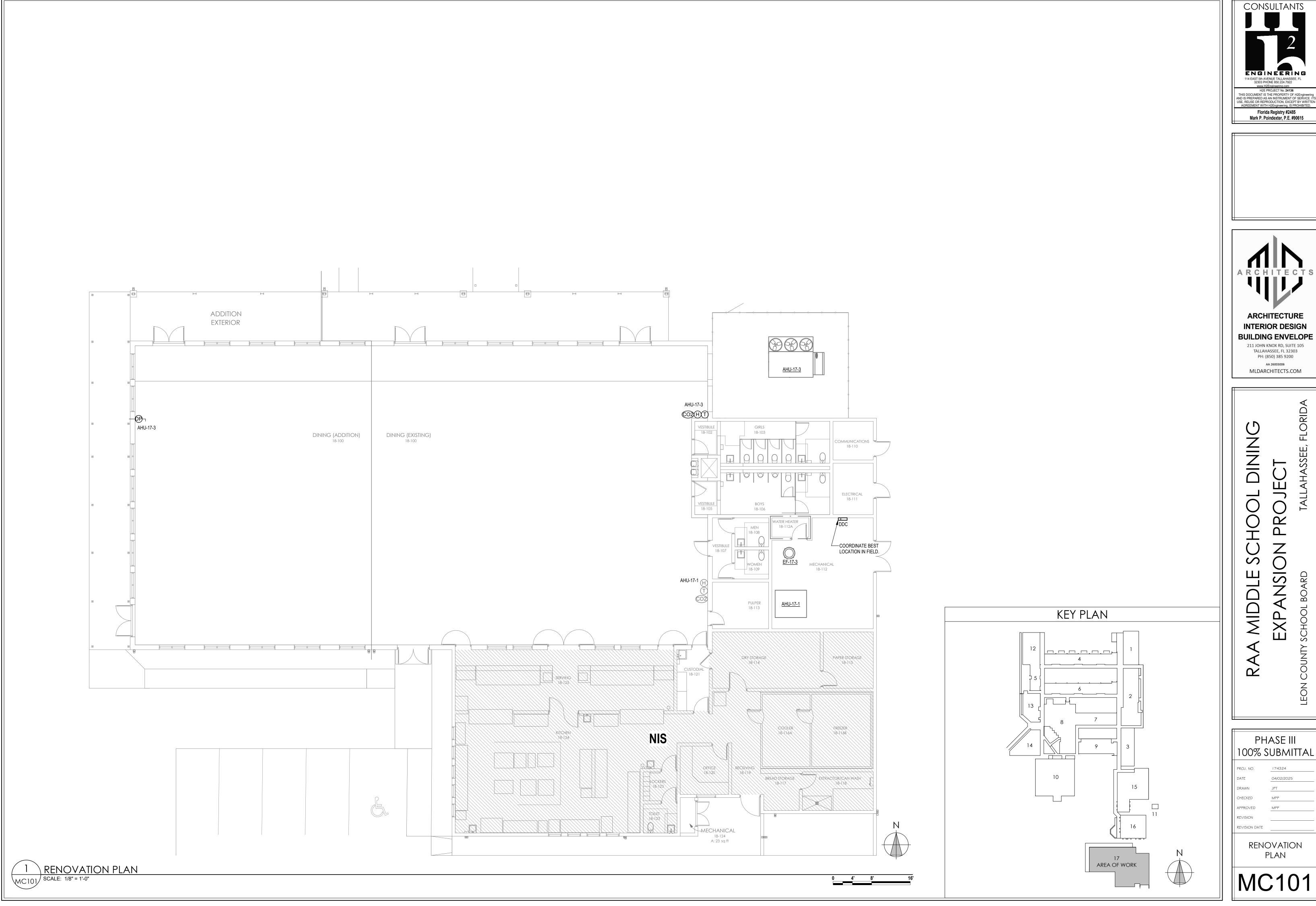
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GENERAL NOTES, LEGENDS & SCHEDULES

MC001





ARCHITECTURE

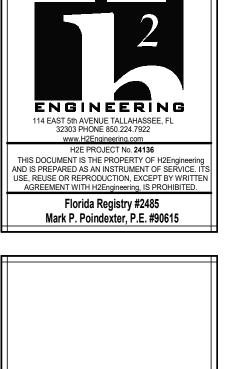
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DINING

SCHOOL

MIDDLE



PHASE III

RENOVATION PLAN

_R24.rvt
, Addition
AS Dining
LCS Raa MS
Central
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SZVAV AIR HANDLING UNIT			POINT TYPE					NTR TYPE		EQUIP.	SCHEM.	
POINT DESCRIPTION	UNITS	ANALOG IN OUT		DIGITAL IN OUT		INTEG. POINT	Р	ı	D	DESIG.	DESIG.	NOTES
SUPPLY FAN START/STOP	ON/OFF				1						YC-01	1
SUPPLY FAN STATUS	ON/OFF			1							IS-01	1
SUPPLY FAN SPEED	%		1				х	х			SCT-01	1
RELIEF FAN START/STOP	ON/OFF				1						YC-02	1
RELIEF FAN STATUS	ON/OFF			1							IS-02	1
RELIEF FAN SPEED	%		1				х	Х			SCT-02	1
OUTSIDE AIR DAMPER	% OPEN		1				х	Х			FCV-01	
RETURN AIR DAMPER	% OPEN		1								FCV-02	
RELIEF AIR DAMPER	OPN/CLS		1								FCV-03	
COMPRESSOR STATUS	ON/OFF			2							YS-01,02	2
VARIABLE SPEED COMPRESSOR SPEED	%		1								SC-01	
HOT GAS REHEAT VALVE	% OPEN		1				х	Х			TCV-01	
UNIT ALARM	ON/OFF			1							YA-01	
GAS HEAT	% OPEN		1								TCV-02	
SUPPLY AIR TEMPERATURE	DEG F	1									TTE-02	
SPACE HUMIDITY	%	1									MTE-01	
SPACE TEMPRATURE	DEG F	1									TTE-01	
SPACE TEMPERATURE SET-POINT ADJUST	DEG F		1								TCT-01	
TENANT OVERRRIDE	ON/OFF			1							HS-01	
SMOKE DETECTOR	NORMAL / ALARM			1							XS-01	1
FLOAT SWITCH	NORMAL / ALARM			1							LS-01	1
DAMPER POSITION SWITCH	OPN/CLS			1							ZS-01	1
OUTSIDE AIRFLOW	CFM	1									FTE-01	
POINTS (SUB-TOTAL)	#	4	9	9	2							
POINTS (TOTAL WITH SPARE)	#	5	10	10	3							

A. OCCUPIED MODE: THE SUPPLY FAN OPERATES CONTINUOUSLY. MODULATE THE SUPPLY FAN SPEED TO MAINTAIN THE SPACE TEMPERATURE COOLING SET-POINT. PROGRAM A MINIMUM SPEED (50%) AND A RAMP TIME (60 SEC) INTO THE AFD. B. <u>UNOCCUPIED MODE:</u> THE SUPPLY FAN IS OFF UNLESS THERE IS A CALL FOR ANY MODE.

A. OCCUPIED MODE: MODULATE THE RELIEF FAN TO MAINTAIN A BUILDING DIFFERENTIAL PRESSURE SET-POINT (0.05 INCH WG, ADJ). PROGRAM A MINIMUM SPEED (20%) AND A RAMP TIME (60 SEC) INTO THE AFD.

A. OCCUPIED MODE: MODULATE DAMPER TO MAINTAIN AN OUTSIDE AIRFLOW SET-POINT. 1. OUTSIDE AIRFLOW SET-POINT RESET: RESET THE OUTSIDE AIRFLOW SET-POINT BETWEEN MINIMUM AND MAXIMUM LIMITS AS THE INDOOR CO2 CONCENTRATION VARIES

B. ECONOMIZER DAMPER MODE: IF THE CALCULATED OUTSIDE AIR ENTHALPY IS LESS THAN THE CALCULATED RETURN AIR ENTHALPY AND IF THE OUTSIDE AIR TEMPERATURE IS

B. COOLING MODE: STAGE/MODULATE COMPRESSORS IN SEQUENCE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET-POINT (54°F, ADJ)].

DEHUMIDIFICATION MODE: STAGE/MODULATE COMPRESSORS IN SEQUENCE TO MAINTAIN THE EVAPORATOR COIL SUCTION TEMPERATURE SET-POINT (52°F, ADJ).

1. COMPRESSOR ADD: IF THE VARIABLE SPEED COMPRESSOR IS OPERATING AT MAXIMUM SPEED AND THE TEMPERATURE IS ABOVE OR BELOW SETPOINT (BASED ON OPERATING MODE), THEN STAGE THE LAG COMPRESSOR ON. MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE TEMPERATURE SETPOINT. 2. COMPRESSOR SUBTRACT: IF MORE THAN ONE COMPRESSOR IS OPERATING, THE VARIABLE SPEED COMPRESSOR IS AT MINIMUM SPEED, AND THE TEMPERATURE IS ABOVE OR BELOW SETPOINT (BASED ON OPERATING MODE), THEN STAGE THE LAG COMPRESSOR OFF. MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE TEMPERATURE

7. HOT GAS REHEAT VALVE

C. ALL OTHER MODES: HOT GAS REHEAT VALVE CLOSED.

SAFETIES

DOWN THE AIR HANDLER UNIT UPON DETECTION OF SMOKE.

HANDLING UNIT UPON DETECTION OF A HIGH WATER LEVEL IN THE DRAIN PAN.

HANDLING UNIT'S FANS IF THE DAMPER FAILS TO OPEN.

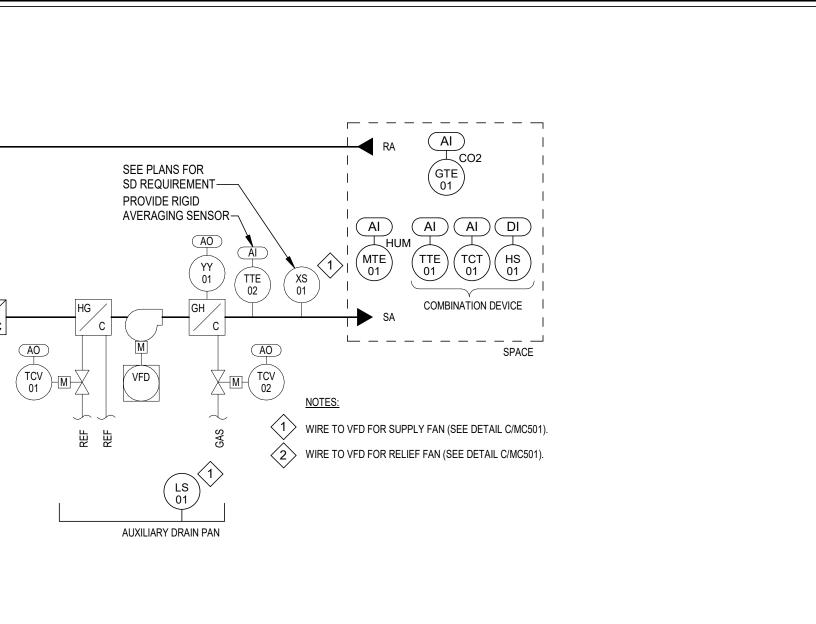
10. MISCELLANEOUS ALARMS

A. THE BAS SHALL ANNUNCIATE THE FOLLOWING ALARMS: 1. HIGH OUTSIDE AIR FLOW: IF THE SUPPLY AIR FLOW IS 10% (ADJ) GREATER THAN SET-POINT FOR A MINIMUM TIME DELAY (10 MIN. ADJ).

2. LOW OUTSIDE AIR FLOW: IF THE SUPPLY AIR FLOW IS 10% (ADJ) LESS THAN SET-POINT FOR A MINIMUM TIME DELAY (10 MIN, ADJ).

11. REQUIRED REPORTS

1. FREQUENCY: UPON FAILURE OF SUPPLY FAN 2. DATA: INSTANTANEOUS VALUE OF ALL POINTS ON AIR HANDLING UNIT.



SINGLE ZONE VAV PACKAGED UNIT

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SC YS YS O1

COMP 1 COMP 2 COMP 1 SPEED STATUS STATUS

GENERAL

⊀ FC

AO FCV 01

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(FTE)

CONDENSING UNIT

- A. THE PACKAGED AIR UNIT SHALL BE CONTROLLED BY A SEPARATE, STAND-ALONE APPLICATION SPECIFIC CONTROLLER (ASC) PROVIDED AND CONFIGURED BY THE EQUIPMENT MANUFACTURER. THE ASC SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE MODE OR AS DIRECTED BY THE BAS. A SEPARATE, STAND-ALONE, NETWORK CONTROLLER (NC) OR PROGRAMMABLE APPLICATION CONTROLLER (PAC) SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR TO ALLOW FOR THE ADDITIONAL FUNCTIONS SPECIFIED HEREIN.
- ALL CONTROL LOGIC SHALL RESIDE IN THE CONTROL PANEL SERVING THE EQUIPMENT. B. THE CONTROLS CONTRACTOR SHALL PROVIDE HARD-WIRED CONNECTIONS FROM THE BAS TO THE UNIT CONTROL PANEL TO FULLY CONTROL THE UNIT.
- C. THE CONTROLS CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NECESSARY TO INTEGRATE WITH THE BACNET INTERFACE, PROVIDED BY THE EQUIPMENT MANUFACTURER. MAP ALL POINTS FROM THE UNIT TO THE BAS.
- D. THE ASC SHALL RESIDE ON A SUB-NETWORK OF THE PROGRAMMABLE APPLICATION CONTROLLERS. E. ALL SET-POINTS, TIME DELAYS, DEAD-BANDS, RESET LIMITS, SELECTABLE POINTS, AND OBJECTS SHALL BE AVAILABLE TO THE USER VIA DYNAMIC GRAPHICS OR TEXT-BASED

RUN CONDITIONS

INTERFACE WITHOUT REQUIRING THE USER TO EDIT THE APPLICATION PROGRAM.

A. SPACE TEMPERATURE AND HUMIDITY SET-POINTS: 1. PROVIDE OCCUPIED SPACE TEMPERATURE COOLING (74°F, ADJ) AND HEATING (70°F, ADJ) SET-POINTS. PROVIDE UNOCCUPIED SPACE TEMPERATURE COOLING (80°F, ADJ) AND HEATING (65°F, ADJ) SET-POINTS.

2. PROVIDE AN OCCUPIED SPACE HUMIDITY SET-POINT (55%, ADJ). PROVIDE AN UNOCCUPIED SPACE HUMIDITY SET-POINT (60%, ADJ).

B. OCCUPIED MODE: ENABLE THE UNIT BASED ON AN OCCUPIED TIME SCHEDULE (MON-FRI = 7:00 AM - 6:00 PM / SAT - SUN = OFF, ADJ). COOLING MODE: IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE COOLING ENABLE SET-POINT (75°F, ADJ) PLUS A DEAD-BAND, THEN INITIATE COOLING MODE. DISABLE COOLING MODE IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SET-POINT (50°F, ADJ).

2. HEATING MODE: IF THE OUTSIDE AIR TEMPERATURE FALLS BELOW THE HEATING ENABLE SET-POINT (55°F, ADJ) MINUS A DEAD-BAND, THEN INITIATE HEATING MODE. DISABLE HEATING MODE IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE HEATING LOCKOUT SET-POINT (70°F, ADJ).

3. DEHUMIDIFICATION MODE: IF THE SPACE HUMIDITY] RISES ABOVE THE SPACE HUMIDITY SET-POINT (55%, ADJ), THEN ENABLE DEHUMIDIFICATION MODE. 4. <u>VENT MODE:</u> IF THE UNIT IS OPERATING IN OCCUPIED MODE AND THERE IS NO DEMAND FOR COOLING, HEATING, OR DEHUMIDIFICATION, THEN INITIATE VENT MODE.

TEMPERATURE CONTROL: DURING UNOCCUPIED HOURS, RESET THE COOLING AND HEATING TEMPERATURE SET-POINTS EQUAL TO THE RESPECTIVE UNOCCUPIED

TEMPERATURE SET-POINTS. ENABLE COOLING AND HEATING MODES OF OPERATION TO MAINTAIN THE UNOCCUPIED TEMPERATURE SET-POINTS. 2. HUMIDITY CONTROL: DURING UNOCCUPIED HOURS, RESET THE DEHUMIDIFICATION SET-POINT TO UNOCCUPIED SET-POINT. IF THE SPACE HUMIDITY RISES ABOVE SET-POINT, THEN INITIATE DEHUMIDIFICATION MODE UNTIL SPACE HUMIDITY IS BELOW SET-POINT MINUS A DEAD-BAND.

3. TENANT OVERRIDE: IF THE OVERRIDE BUTTON IS ACTIVATED AT THE SPACE SENSOR, THEN INITIATE AN OCCUPIED MODE OF OPERATION FOR A MINIMUM TIME DELAY (2 HOURS,

SUPPLY FAN

B. <u>UNOCCUPIED MODE:</u> FAN OFF

5. ECONOMIZER DAMPER

BETWEEN MINIMUM (450 PPM, ADJ) AND MAXIMUM LIMITS (1000 PPM, ADJ), RESPECTIVELY.

ABOVE SET-POINT (40°F, ADJ), THEN ENABLE ECONOMIZER MODE.

C. <u>UNOCCUPIED MODE:</u> CLOSE DAMPER.

COMPRESSORS

A. SUPPLY FAN OFF: COMPRESSORS OFF.

HEATING MODE: COMPRESSORS OFF.

VENT MODE: COMPRESSORS OFF.

A. SUPPLY FAN OFF: HOT GAS REHEAT VALVE CLOSED. B. DEHUMIDIFICATION MODE: MODULATE HOT GAS REHEAT VALVE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET-POINT (70°F, ADJ).

GAS HEAT VALVE

A. <u>SUPPLY FAN OFF:</u> GAS VALVE CLOSED. B. HEATING MODE: MODULATE GAS VALVE TO MAINTAIN THE SPACE TEMPERATURE HEATING SET-POINT.

C. ALL OTHER MODES: GAS VALVE CLOSED.

A. SMOKE DETECTOR(S): SMOKE DETECTOR(S) ARE PROVIDED BY OTHERS BUT SHALL BE WIRED TO AN AUXILIARY CONTACT ON THE VFD TO OVERRIDE ALL CONTROLS AND SHUT

B. FLOAT SWITCH: PROVIDE A FLOAT SWITCH IN THE AUXILIARY DRAIN PAN WIRED TO AN AUXILIARY CONTACT ON THE VFD TO OVERRIDE ALL CONTROLS AND SHUT DOWN THE AIR C. DAMPER PROOF: PROVIDE A DAMPER POSITION SWITCH WIRED TO AN AUXILIARY CONTACT ON THE VFD TO OVERRIDE ALL CONTROLS AND PREVENT OPERATION OF THE AIR





PHASE III

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