	CODE REFERENCES	CONTRC	DLS SY
BC, BUILDING	FLORIDA BUILDING CODE, BUILDING, 2023 EIGHTH EDITION		
BC, EXISTING BUILDING	FLORIDA BUILDING CODE, EXISTING BUILDING, 2023 EIGHTH EDITION	- MAINTAIN A MINIMUM OF 36"	DDC
BC, MECHANICAL	FLORIDA BUILDING CODE, MECHANICAL, 2023 EIGHTH EDITION	CLEAR IN FRONT OF	
BC, FUEL GAS	FLORIDA BUILDING CODE, FUEL GAS, 2023 EIGHTH EDITION		1
BC, EXISTING BUILDING	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION	DUCT MOUNTED	
BC, ENERGY	FLORIDA BUILDING CODE, 2023 EIGHTH EDITION	SENSOR	
FPC	FLORIDA FIRE PREVENTION CODE, 2023 EIGHTH EDITION		AI
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION		
IFPA 51B	STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING, AND OTHER HOT WORK, 2019 EDITION	FAN OR PUMP	
IFPA 54	NATIONAL FUEL GAS CODE, 2021 EDITION		
IFPA 70	NATIONAL ELECTRIC CODE, 2020 EDITION		
IFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, 2021 EDITION	VFD/AFD	
NFPA 101	LIFE SAFETY CODE, 2021 EDITION		
IFPA 101A	GUIDE ON ALTERNATIVE APPROACHES TO LIFE SAFETY, 2019 EDITION		
		DUCT MOUNTED SMOKE DETECTOR	
		PREMIUM EFFICIENT MOTOR, UNO	M
	DESIGN UKITERIA		
	GROUP B BUSINESS	-111	

BUILDING TYPE	GROUP B, BUSINESS		
CLIMATE ZONE	2A, LEON COUNTY, FLORIDA	MOTORIZED DAMPER	0
OUTDOOR DESIGN CONDITIONS (SUMMER)	100°F DB, 80°F WB - BASED ON CURRENT UNIVERSITY STANDARD OUTDOOR AIR CONDITIONS.		╡ <u></u>
OUTDOOR DESIGN CONDITIONS (WINTER)	25°F DB	THERMOSTAT/ TEMPERATURE	(T)>
INTERIOR DESIGN	72°F HEATING, 75°F COOLING	CONTROL WIRING	\bigcirc
		CURRENT SENSOR	CS
METHOD	ENERGY TRADE OFF.	CURRENT/CONTACT	(CR)
COMMISSIONING	THIS PROJECT DOES NOT REQUIRE COMMISSIONING PER EXCEPTIONS AS INDICATED IN SECTION 408 OF THE FLORIDA BUILDING CODE, ENERGY.	ANALOG INPUT	AI
	THE HVAC SCOPE OF WORK GENERALLY CONSISTS OF THE FOLLOWING:	ANALOG OUTPUT	AO
SCOPE OF WORK	DEMOLITION OF A PORTION OF THE EXISTING BOOK STORE MEP&FP COMPONENTS. INSTALLATION OF A NEW AHU TO SERVE THE FUTURE DECREATION TEMANT AND INSTALLATION OF NEW VARIABLE ARE VOLUME	DIGITAL INPUT	
	TERMINAL UNITS (VAV'S OR VTU'S) TO SERVE THE PROPOSED RENOVATION AREAS.	DIGITAL OUTPUT	

LS SYMBOLS	PIPINO	G SYMBOLS		REVIATIONS &	DUCT	SYMBOLS	GENERAL HVAC NOTES
				STMBULS			1 TOMAHAWK ENGINEERING AND CONSULTING, INC. SHALL NOT BE HELD RESPONSIBLE FOR ANY MISUSE AND/OR MISREPRESENTATION OF THIS SET OF DOCUMENTS.
DDC	PIPING UP		AC AFF	AIR CONDITIONER ABOVE FINISHED FLOOR	SUPPLY AIR DUCTWORK DOWN	X"xY"	2 THE CONTRACTOR ASSUMES RESPONSIBILITY FOR USE OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF PROJECT CONDITIONS AND OWNER REQUIREMENTS PRIOR TO PROCUREMENT OF EQUIPMENT AND SERVICES. CHANGES IN
	PIPING DOWN END CAP	<u>ج</u>	AFR AFD	ABOVE FINISHED ROOF ADJUSTABLE FREQ. DRIVE	SUPPLY AIR DUCTWORK UP	X"xY"	 PROJECT COST WILL NOT BE GRANTED DUE TO FIELD CONFLICTS AND/OR PROJECT CONDITIONS. 3 THIS SET OF DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED A SET OF CONSTRUCTION DOCUMENTS UNLESS A SIGNATURE AND DATE ARE AFEIVED TO THE
AI		-3-WAY 2-WAY	AHJ AHU	AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT			CONSTRUCTION DOCOMENTS UNLESS A SIGNATURE AND DATE ARE AFFIXED TO THE DRAWINGS AND SPECIFICATIONS BY THE ENGINEER IN RESPONSIBLE CHARGE FOR THE GIVEN DISCIPLINE.
\bigcirc	CONTROL VALVE	<u>∽</u> <u></u>	BHP CD	BRAKE HORSE POWER CONDENSATE CURIC EEET DED MINILITE	DUCTWORK DOWN	X"xY"	BE RESOLVED BY THE ENGINEER OF RECORD. THE CONTRACTOR DOES NOT HAVE THE AUTHORITY TO INTERPRET CONFLICTS AND RESOLVE ISSUES WITHOUT WRITTEN DIRECTION FROM THE ENGINEER OF RECORD.
AI AFMS		J.		CONDENSING UNIT DIRECT DIGITAL CONTROLS	OUTSIDE AIR DUCTWORK UP	X"xY"	5 ANY CONFLICTS IN THE FIELD OR WITHIN THESE DOCUMENTS SHALL BE RECORDED AND PROVIDED TO THE ENGINEER OF RECORD ON THE CONTRACTOR'S STANDARD LETTERHEAD. WRITTEN DIRECTION RESOLVING CONFLICT WILL BE ISSUED BY THE ENGINEER OF RECORD
OR VFD	GATE VALVE	۶	DN EA	DOWN EXHAUST AIR	FLEXIBLE CANVAS		6 WHERE THE CONTRACTOR DEVIATES FROM THIS SET OF CONSTRUCTION DOCUMENTS AND RESUBMISSION OF REVISED DRAWINGS IS REQUIRED BY THE PERMITTING OFFICE/OFFICIAL, A MINIMUM CHARGE OF \$750.00 PER AFFECTED DRAWING SHEET WILL BE BILLED TO THE
	BUTTERFLY VALVE	۔۔۔۔۔ارا۔۔۔۔۔۔ ۶۔۔۔۔۔ا∂⊢۔۔۔۔۔۶	EAT EWT	ENTERING AIR TEMPERATURE ENTERING WATER TEMPERATURE			CONTRACTOR. THE REVISED DRAWINGS WILL NOT BE PROVIDED AND/OR SUBMITTED TO THE PERMIT OFFICE UNTIL A PURCHASE ORDER OR SIGNED AGREEMENT IS ISSUED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL FOR WORK REQUIRED. THIS SHALL NOT
	PUMP (SCHEMATIC)	5555555555555	FLA FDM	EXTERNAL STATIC PRESSURE FULL LOAD AMPS	RETURN AIR DUCTWORK UP	₹ X"xY"	 APPLY TO UNFORESEEN CONDITIONS OR CHANGES REQUIRED FOR THE PROJECT THAT ARE NOT INITIATED BY THE CONTRACTOR. 7 DRAWINGS ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND EXISTING FOLURMENT (WHERE ARRIVGAR) EXISTING FOLURMENT.
		 ۲	FPS GFI	FEET PER SECOND GROUND FAULT CIRCUIT		X"xY"	FURNISHED WILL WORK FOR SPACES PROVIDED. FINAL DIMENSIONS OF DUCTWORK AND PIPING SHALL BE COORDINATED IN FIELD. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PROVIDING OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING
	CONNECTION (STAINLESS STEEL, UNO)	∽ \/ 	GPM kW	IN LERRUPTER GALLONS PER MINUTE KILLOWATT			TO FIT IN SPACES PROVIDED AND THESE ADDITIONAL OFFSETS AND TRANSITIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. 8 DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA CLUDELINES AT TIME OF PROVIDED FOR MET.
	DIRECTION OF FLOW	۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰	LAT	LEAVING AIR TEMPERATURE	EXHAUST AIR DUCTWORK UP	<pre> X"xY" </pre>	9 THERMOSTATS, HUMIDISTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND/OR OTHER DEVICES REQUIRING OCCUPANT ADJUSTMENT BUT LOCATED ON WALL SHALL BE MOUNTED 48" AFE, LINEESS NOTED OTHERWISE
CS	SUPPLY & CHILLED WATER RETURN		MBH MCA	THOUSANDS OF BTU'S PER HOUR MINIMUM CIRCUIT AMPS	EXHAUST AIR DUCTWORK DOWN	X"XY"	10 WHERE APPLICABLE AND AVAILABLE, ACTUAL EQUIPMENT DRAWINGS ARE USED FOR SYMBOLS ON PLAN VIEWS AND IN DETAILS. HOWEVER, SIMPLE BLOCK DIAGRAMS WITH ESTIMATED DIMENSIONS ARE ALSO USED FOR PLAN VIEWS. WHERE FOULPMENT OR
	SUPPLY & HEATING HOT WATER RETURN		MOCP NC	NORMALLY CLOSED		E _ EX.	DEVICES ARE NOT LABELED, INDUSTRY STANDARD TERMINOLOGY AND SYMBOLOGY SHALL APPLY.11THESE GENERAL NOTES WORK IN CONJUNCTION WITH NOTES SHOWN ON PLAN VIEWS.
	PUMPED CONDENSATE	S PCD - - - - S	NO NTS	NORMALLY OPEN NOT TO SCALE	FIRE DAMPER EX EXISTING		THESE NOTES DO NOT SUPERCEDE NOTES SHOWN ON PLAN VIEW DRAWINGS. CONVERSELY, NOTES SHOWN ON PLAN VIEW DRAWINGS DO NOT SUPERCEDE THESE GENERAL NOTES.
				POUNDS PER SQUARE INCH			12 REFER TO EQUIPMENT SCHEDULES FOR AIR AND WATER PRESSURE DROPS ASSOCIATED WITH COOLING AND HEATING COILS.
			PISG PVC	PSI GAUGE POLYVINYL CHLORIDE		MECH. EQUIPMENT	REQUIRED FOR EQUIPMENT ACCESS AND SERVICE. PANELS SHALL BE SIZED TO SUIT EQUIPMENT SERVICED. WHERE PANELS WILL BE LOCATED IN FIRE RATED WALLS AND/OR PARTITIONS, THE ACCESS PANEL SHALL MEET THE RATING OF THE WALL. REFER TO
			RA RG	RETURN AIR RETURN GRILLE	MECHANICAL EQUIPMENT WITH MAINTENANCE		ARCHITECTURAL DRAWINGS FOR RATINGS OF WALLS AND PARTITIONS. 14 UNLESS NOTED OTHERWISE, DUCTWORK, PIPING, VALVES, DAMPERS, AND ALL ASSOCIATED ANCILLARY HVAC DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MECHANICAL
			SA SG	SUPPLY AIR SUPPLY GRILLE	CLEARANCE	MAINTENANCE CLEARANCE	SPECIFICATIONS. ALL EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE NEW, UNLESS NOTED OTHERWISE, NO EXCEPTIONS.15PAINT DUCTWORK AND DAMPERS VISIBLE THRU REGISTERS FLAT BLACK PRIOR TO OWNER
			TSP	TOTAL STATIC PRESSURE			OCCUPANCY. 16 HVAC EQUIPMENT PROVIDED FROM THIRD PARTY MANUFACTURER SHALL BE INSTALLED IN
			UNO VAV	UNLESS NOTED OTHERWISE VARIABLE AIR VOLUME TERMINAL UNIT	MANUAL BALANCE DAMPER		ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. WHERE CONFLICTS BETWEEN CONTRACT DOCUMENTS AND MANUFACTURER'S INSTRUCTION ARISE, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL PREVAIL.
			VTU	VARIABLE VOLUME TERMINAL UNIT VAV AND VTU ARE USED INTERCHANGEABLY AND ARE THE			17 THE CONTRACTOR SHALL MAKE HIS OR HERSELF AWARE OF THE OWNER'S SCHEDULE AND BE PREPARED TO WORK AT NIGHT OR ON WEEKENDS TO COMPLETE WORK SHOWN IN THESE DOCUMENTS. INTERRUPTIONS TO OWNER'S NORMAL WORK SCHEDULE SHALL NOT BE MADE WITHOUT WRITTEN INSTRUCTION TO DO SO FROM OWNER'S REPRESENTATIVE.
			WP	SAME TYPE OF EQUIPMENT. WEATHER PROOF	REFER TO SPECIFICATIONS FOR VOLTAGE		18 FOR EQUIPMENT DEMOLISHED UNDER THIS CONTRACT, THE CONTRACTOR SHALL ALLOW THE OWNER FIRST REFUSAL OF DEMOLISHED EQUIPMENT. IF EQUIPMENT IS REFUSED, THE CONTRACTOR SHALL DISPOSE OF DEMOLISHED EQUIPMENT IN ACCORDANCE WITH THE
				CHANGE IN TEMPERATURE SIMILAR			AUTHORITY HAVING JURISDICTION. IN ADDITION, FOR EQUIPMENT INDICATED TO BE DEMOLISHED, THE CONTRACTOR SHALL ASSUME THAT THIS ALSO REQUIRES DEMOLITION OF ALL ASSOCIATED APPURTENANCES INCLUDING ELECTRICAL CONNECTIONS, CONTROLS CONNECTIONS, ETC.
			"CONNECT TO" SYMBOL	$oldsymbol{\Theta}$			19 CONTROLS COMPONENTS INDICATED TO BE DEMOLISHED SHALL ALSO INCLUDE CONTROL WIRING AND CONDUITS, REGARDLESS OF VOLTAGE. WHERE CONTROLS WIRING IS 120V AND ABOVE, A LICENSED ELECTRICAL CONTRACTOR SHALL BE PROCURED BY THE
			"DEMOLISH TO" SYMBOL		DIFFUSER		CONTROLS VENDOR TO PERFORM WORK. 20 THE CONTROLS VENDOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONTROL WIRING AND CONDUIT ASSOCIATED WITH THIS PROJECT, REGARDLESS OF VOLTAGE.
			DEMOLISH EXISTING EQUIPMENT		RETURN AIR GRILLE		THE SERVICES OF A FLORIDA LICENSED ELECTRICAL CONTROLS VENDOR SHALL PROCURE INSTALL WIRING AND CONDUITS IN ACCORDANCE WITH NEC AND THE LOCAL AUTHORITY HAVING JURISDICTION.
			DIFFUSER TAG, NEW	TAG CFM			21 WHERE THERE ARE CONFLICTS BETWEEN LIGHT SWITCHES AND THERMOSTAT/HUMIDISTAT LOCATIONS, THE LIGHT SWITCHES SHALL PREVAIL. MOUNT THERMOSTAT/HUMIDISTATS ADJACENT TO LIGHT SWITCHES.
			DIFFUSER TAG,	TAG CFM	EXHAUST AIR GRILLE		22 AS REQUIRED BY BUILDING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TRANSITIONS AND EQUIVALENT SQUARE DUCT SIZES NEEDED TO FIT THRU JOISTS AND/OR WALL 2x4 SPACING WHERE ROUND IS SHOWN ON PLANS. THE CONTRACTOR SHALL PROVIDE THESE TRANSITIONS AND SQUARE DUCTS AT NO ADDITIONAL COST TO THE
			EXISTING		DEMOLISH EXISTING DUCTWORK		OWNER. COORDINATE WITH THE GC IN FIELD FOR JOIST AND WALL 2x4 REQUIREMENTS.23WHERE REQUIRED BY BUILDING CONSTRUCTION AND HEIGHT TO EQUIPMENT SERVED, THE CONTRACTOR SHALL PROVIDE HOISTING MECHANISMS AS WELL AS SCAFFOLDING WHERE REQUIRED TO INSTALL EQUIPMENT SHOWN WITHIN THESE CONTRACT DOCUMENTS. EQUIPMENT USED FOR THE INSTALLATION OF EQUIPMENT SHALL MEET ALL OSHA REQUIREMENTS.
							24 PROVIDE MANUAL BALANCE DAMPERS FOR SUPPLY, RETURN, AND EXHAUST TAKE-OFFS TO REGISTERS WHETHER INDICATED OR NOT. WHERE DAMPERS WILL BE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE OPPOSED BLADE MANUAL BALANCE DAMPERS FROM
							REGISTER MANUFACTURER.



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RICHARD LINDBURG PE#: 62829 WESLEY THIGPEN, JR PE#: 65705

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EY H. THIGA

LICENSE No. 65705

STATE OF FLORIDA

EXPIRES

/ON/















SHEET RE	NOVATION KEY NOTES:
1	PROVIDE A FIRE DAMPER FOR EXI SEPARATION WALK.
2	PROVIDE A 36x18 RETURN AIR TRA
3	COORDINATE CONSTRUCTION OF OFFSETS IN WALL REQUIRED TO (
4	PROVIDE A NEW 24x24 DOOR GRIL ARCHITECTURAL FINISHES.
5	REBALANCE EXISTING EXHAUST F BELTS AND SHEAVES AS PART OF
6	PROVIDE NEW BELTS AND SHEAV SCHEDULED.



1	REINSTALL EXISTING TEMPERATURE SENSOR FOR <u>BCU-1</u> . PROVIDE ALL REQUIRED WIRING NEED FOR RELOCATION.
2	PROVIDE AHU WITH CONDENSATE PUMP EQUAL TO A LITTLE GIANT PUMP MODEL VCL-4SULS HIGH CAPACITY CONDENSATE PUMP WITH 115C/1Ø MOTOR CHARACTERISTICS, 6 FT POWER CORD, DISCHARGE CHECK VALVE, AND FLOAT SWITCH FOR CONNECTION TO BAS TO SHUT DOWN AHU UPON DETECTION OF WATER. ROUTE FULL LINE SIZE DISCHARGE TO CONDENSATE MAIN ON FLOOR PLANS.
3	ROUTE 1 1/2" CONDENSATE MAIN TO EXISTING 8" RAIN LEADER IN GARAGE. PROVIDE CHECK VALVE.
4	RECONNECT HYDRONIC PIPING OF SAME SIZE AS THAT DEMOLISHED.
5	PROVIDE VAV WITH 3-WAY CONTROL VALVE.
6	REINSTALL <u>BCU-1</u> ON STAND W/ EXISTING CONDENSATE PUMP BENEATH. ROUTE CONDENSATE DISCHARGE FULL LINE SIZE AND WITH CHECK VALVE TO CONDENSATE MAIN. REFER TO DETAILS.
7	PROVIDE THE FOLLOWING: 2" HHWS&R CONNECTION TO SERVE BCU-1 AND AHU-H1. PROVIDE ISOLATION VALVES ON RISE AT TAPS. PROVIDE 3/4" HHWS&R TO BCU-1 AND 1-1/2" HHWS&R TO AHU-H1. PROVIDE A 1" CONNECTION TO BCU-1 FROM MAINS WITH VALVE ON RISE. PROVIDE NEW MOTORIZED CONTROL VALVE FOR CHW FOR BCU-1 AND REINSTALL HHW CONTROL VALVE FOR BCU-1. REFER

SHEET RE	NOVATION KEY NOTES:
1	HOT TAP OR FREEZE EXISTING CHILLED WATER MAINS TO INSTA AHUH1
2	PROVIDE VAV WITH 3-WAY CONTROL VALVE.

DUCT/SLEEVE CONNECTIONS

BREAK-AWAY DUCT/SLEEVE CONNECTIONS

M5.1

														AIR HAI	IDLING	G UNIT	SCHE	DUL	Ξ														
JIPMENT NEW/ NO. EXISTING	AREA(S) SERVED	COMPONENTS	TOTAL CFM	TOTAL DESIGN CFM	OUTSIDE AIR CFM	TOTAL DESIGN E O/A	ESP TSP	FAN SIZE/ TYPE	# OF FANS (OTOR HP EACH)	VOLTAGE / PHASE T CC	OLING COIL OTAL OLING	COOLING COIL SENS. COOLING	COOLING COIL ENT. AIR DB / WB	COOLING COIL LVG. AIR DB / WB	COOLING COIL ENT. J LVG. WATER	G COOLING / WATER PF ER DROP (FT F	COIL CL RESS. CC HEAD) GF	LG COOLIN COIL FA DIL VELOCI PM (FPM)	IG CE TY FINS PER FOOT	COOLING COIL AIR PRESS. DROP (IN. WATER)	COOLING COIL WATER VELOCITY	PHC TOTAL HEATING	PHC ENT. AIR DB	PHC LVG. PHC AIR L DB	ENT. / WAT VG. PRES ATER DROP HEA	C ER SS. PH (FT D)	IC GPM	PHC FACE VELOCITY (FPM)	PHC # OF ROWS/FINS PER FOOT	PHC AIR PRESS. DROP (IN. WATER)	PHC WATER VELOCITY	
HU-H1 NEW	FUTURE REC.	PFL/FFL/PHC/C CL/FAN	6500	6500	2000	2000 1.	.50" 4.20"	15.7"/PLN	2	8.05	460V / 3Ø 349	.9 MBH	232.9 MBH	82.0°F/68.1°F	53.0°F/52.9°F	45°F/60°F	5.22'	41	.0 495	8/144	0.96"	2.13 FPS	232.7 MBH	17°F	50°F 180°	F/150°F 2.0	,	15.0	520	1/122	0.15"	2.5 FPS	
BCU-1 EXISTING	CARD CENTER	NA	800	800**	100	NA 0.	.75" NA	NA	NA	NA	NA 30	0 MBH	22.0 MBH	NA	NA	NA	NA	6.	0 NA	NA	NA	NA	NA	NA	NA	NA NA		2.5	NA	NA	NA	NA	
AHU-1 EXISTING	SOUTH OFFICE AREA	NA	20000	18025**	3000	3000 1.	.43" 2.04"	NA	1	15	NA 797	.0 MBH	572.4 MBH	NA	NA	NA	NA	100	0.0 NA	NA	NA	NA	NA	NA	NA	NA NA		NA	NA	NA	NA	NA	
ES:	1	'			I	'					,		,			'	I		,	,	1	1	1	1 1		'	1	1	1		,		
ASIS OF DESIGN: EQUAL	TO TRANE. PROVID	E UNIT WITH MINI	/UM SHIP	PING SPLITS. E	EXISTING UN	NITS, FIELD V	/ERIFY MAKE/N	MODEL. UNLES	3S NOTED OTI	IERWISE,	, NOTES BELOW	DO NOT C	ORRESPOND	TO EXISTING EQUIF	MENT.																		
ONTRACTOR SHALL INC	UDE COST REQUIF	ED FOR FACTORY	ASSISTA	ICE FOR BREA	AKDOWN AN	ID INSTALLAT	TION AND REC	ONSTRUCTIO	N OF UNITS A	3 NEEDEL	D.																						-25 -25 -25
ROVIDE VFD FOR FANS.	PROVIDE (1) VFD PI	ER FAN, REFER TC	CONTRO	S DRAWINGS	AND SPECI	FICATIONS F	OR FURTHER	INFORMATION	J.																			COMF	PONEN		GEND	FOR	DA1 11-05 03-14 05-14
ROVIDE DETACHABLE, 6	' TALL, BASE RAILS	FROM MANUFACT	URER.																									A	R HAN	IDLIN	IG UNI	Т	EWED
HILLED WATER COOLING	GOILS WHOSE WA	TER VELOCITY TH	RU TUBES	IS LESS THAN	N 2.15 FPS S	HALL BE PRC	SVIDED WITH 7	FURBULATOR	S OR TURBOS	PIRALS.																	MX	KB - MIXIN	G BOX	PLI	N - PLENUM		REVI WHT WHT WHT
ROVIDE RIGHT/LEFT HAI	ID CONFIGURATION	BASED ON FLOO	R PLANS A	ND ELEVATIO	NS. THE COI	NTRACTOR A	AND EQUIPMEN	VT SUPPLIER /	ARE RESPONS	IBLE FOF	R VERIFICATION	OF UNIT H	IAND PRIOR TO	ORDERING AND/O	SHIPPING. WROI	NG HAND WILL	BE RETURNED A		FOR/SUPPLIE	RS EXPENSE.							FM	XB - MIXIN	G BOX WITH FIL	TERS SAG	C - SMALL AC		AWN:
UPPLY AIR FANS SHALL	BE CLASS II, NO EX	CEPTIONS. FANS	ND MOTO	RS SHALL BE	PROVIDED	ON SPRING I	SOLATED ASS	,EMBLIES.																				CL -COOL			C - LARGE AC	CESS	
AN MOTORS SHALL BE F	REMIUM EFFICIENT	MOTORS, NO EXC	EPTIONS.																								FA	AN - FAN		XLA	C - EXTRA LA		DPMEN
ONDENSATE TRAPS SH/	LL BE PROVIDED A	S DETAILED ON PF		TALLATION LI	TERATURE	PROVIDED W	/ITH THE AIR F	IANDLING UNI	T. REFER TO I	IANUFAC	CTURER'S WRITT	EN INSTAL	LATION INSTR	UCTIONS FOR PRO	PER TRAP CONST	RUCTION BASE	ED ON STATIC PR	ESSURE AS	INDICATED HI	EREIN.							PF	LI - FLAT		DIF	- INTERNAL - DIFFUSER	FAUE & BYPASS	
PROVIDE UNIT WITH: ST	NINLESS STEEL DRA	IN PANS SLOPED	FO CONDE	NSATE DRAIN	I, STAINLES	3 STEEL COIL	L CASINGS, 2"	FOAM (R-13) II	NSULATION IN	THE PAN	NELS, 18 GA. CAS	ING, MINI	MUM 1 YEAR W	ARRANTY FOR THE	UNIT.												FF	E - FINAL		FLT	A - ANGLE FIL	TER SECTION	ASE: SIGN D VER REV
PRE-FILTERS IN COMBIN	ATION FILTER SECT	ION TO BE 2" MER	V 8 AND 4	" MERV 13 FIL	TERS. FILTE	R PRESSURE	E DROPS SHAL	L BE THE FOL	LOWING: TOT	AL - 1.20",	. PROVIDE FILTE	R SECTIO	NS WITH MAGN	NAHELIC GAUGES V	ITH PERMANENT	MARKINGS AT	THE CLEAN AND	DIRTY COND	ITIONS.										ON		N - TURNING	SECTION	D D D
PROVIDE FAN SECTIONS	WITH MARINE LIGH	TS.																									T						
* PROVIDE NEW BELTS BALANCE OF EXISTIN	AND SHEAVES FO	R FINAL TEST AND														Т	TERMIN	IAL U			IEATIN	IG HO	DT WA	TER	REHI	EAT		DI	FFUSE	ER SC	CHEDU	JLE	∭ ≻
																				SC	HFDU	IF							NECK				∥ É
																			MIN.								Ň	MARK CH	SIZE		DESCRIPTIO	N	SS I
																NO.	SIZE C	FM C	CFM	CFM	CFM	EAT (°F)	LAT (°F) EV	VT (°F) LV	/T (°F) MB	H GPM	NC	0-1	00 6"Ø F	SQUARE PLA	QUE DIFFUSER, T (OF SIZE INDIC	HIGH CAPACITY, ATED) ALUMINUM	Ⅲ 늡
															V V	VAVUPS-1	8 5	00	150	500	250	55	95	180	150 10.	9 0.7	-	A 101-	245 8"Ø	CONSTRUCT AS INDICATE	ION. PROVIDE TI D. WHERE NO TI). PROVIDE 4-WA	HROW PATTERN	
															V	AVUPS-2	14 18	300	600	1800	900	55	95	180	150 39	1 2.6	-	246	350 10"Ø	BE EQUAL TO WITH INSULA) PRICE MODEL / TED BACKPAN,	ASPD. PROVIDE MINIMUM, R-6	
																VAVUPS-3 VAVUPS-4	10 8	25	250	825	400	55	95	180	150 10. 150 17.	9 0.7 4 1.2	-	501-	900 12"Ø I	INSULATION BARRIER.	WITH FOIL SCRI	I VAPOR	
															v	VAVUPS-5	12 14	100	450	1400	750	55	95	180	150 32.	6 2.2	-			ALL ALUMINU WITH LOUVE	JM CONSTRUCTI RED FACE AND (ON RETURN AIR , 3/4" BLADE	
															V	VAVUPS-6	12 14	100	450	1400	750	55	95	180	150 32.	6 2.2	-	B VIEV	ER TO PLAN	SPACING ON TYPE BORDE	45° ANGLE. PRO R WHERE LOCA	VIDE LAY-IN TED IN LAY-IN	I ↓
															V	VAVUPS-7	12 14	100	450	1400	750	55	95	180	150 32.	6 2.2	-	A	ND SIZES	TYPE CEILING MOUNTED BO	GS. PROVIDE WI DRDER WHERE L	TH SURFACE OCATED IN	N N
																VAVUPS-8	12 14	ŧUU	450	1400	750	55	95	180	32.	o 2.2	-			GYPSUM CEI ALL ALUMINU	LINGS OR ON WA	ALLS. ON DOUBLE	∦ ∀C
															ΝΟΤ	TES:														DEFLECTION AIRFOIL BLAI	SUPPLY AIR DIF DES. PROVIDE 3/	FUSER WITH 4" BLADE	SIC
															1. B.	BASIS OF DESIG	GN: PRICE, OR EQ	UAL.											VS FOR CFM	BOTH HORIZ	D ADJUSTABLE L ONTAL AND VER /-IN TYPE BORDI	TICAL PLANES.	ШÖ
															2. P PRC	PROVIDE ALL TE OVIDED FOR AS	ERMINAL UNITS W SSOCIATED AHU.	/ITH AN APPL UNITS SHALI	LICATION SPE	CIFIC DDC CONT D THRU CONTRO	ROLLER. PROV DLS SYSTEMS V	DE ANY AND /ITH LOW VOL	ALL COMPONE TAGE ELECTE	ICAL CHARA	RED TO CONNE CTERISTICS.	CT TO BAS PANE	EL	,		LOCATED IN	LAY-IN TYPE CE	LINGS. PROVIDE DRDER WHERE	
															3. (-	-) INDICATES NO	IC LEVEL OF 25 OI	R LESS.											l	LOCATED IN	GYPSUM CEILIN	GS OR ON WALLS.	
															4. M	MAXIMUM PRES	SSURE LOSS THR	J UNIT AND (COIL SHALL B	E 0.5" STATIC PRI	ESSURE.							DTES:					Cier
															5. P	PROVIDE TERMI	IINAL UNITS WITH	(2) ROW HEA	ATING HOT W	ATER REHEAT CC	DILS, CAPABLE	OF PROVIDING	BTUH AND A	R TEMPERA	TURES INDICA	TED.	1.	LAY-IN AND V				ALL BE WHITE.	
																											OF	R OTHER APP	URTENANCES A				308 308 308 308
																											3. SF	PACE SHALL E	E PAINTED FLA	T BLACK.	VISIBLE FROM I	HE FINISHED	Boulev FL 32 402-30
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IL COOLING / COIL ENT. LVG. WATE	G COC / WAT R DROF	DLING COIL ER PRESS. P (FT HEAD)	CLG COIL GPM	COOLING COIL FACE VELOCITY (FPM)	CLG COIL # OF ROWS / FINS PER	COOLING COIL AIR PRESS. DROP (IN.	COOLING COIL WATER	PHC TOTA HEATING	AL ENT. G AIR	PHC LVG. AIR DB	PHC ENT. / LVG. WATER	PHC WATER PRESS. DROP (FT	PHC GPM	PHC VELC (FF	FACE DCITY PM)	PHC # OF ROWS/FINS PER FOOT	PHC AIR PRESS. DROP (IN. WATER)	PHC WATER VELOCITY	N: REVIEWED:		EOF , INCLUDING ELI
		5.22'	41.0	495	FOOT 8/144	0.96"	2.13 FPS	232.7 MB	H 17°F	50°F	180°F/150°F	HEAD) 2.0'	15.0	52	20	1/122	0.15"	2.5 FPS	DRAM		ES THERE
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ONG HAND WILL	. BE RETURN	NED AT CONTI	RACTOR/S	SUPPLIERS E	EXPENSE.								MXB-FMXB-FMXB-CCL-FAN-FLT-FFL-FFL-	MPO AIR MIXING BOX MIXING BOX MIXING BOX PREHEAT C COOLING CO FAN FLAT FILTE FINAL FILTE FINAL FILTE	NE HA x x with F coil oil R R R S ERS	NT LE NDLIN PLN FILTERS SAC MLAC LAC LAC IFB DIF FLTA	GEND GUN - PLENUM - SMALL AC - MEDIUM/L - LARGE AC - EXTRA LA - INTERNAL - DIFFUSER - ANGLE FIL	D FOR IT CCESS ARGE ACCESS CCESS RGE ACCESS RGE ACCESS RGE ACCESS RGE ACCESS RGE ACCESS RGE ACCESS RGE ACCESS RGE ACCESS	In the second seco	VER REVIEW DMM WHT 03-14-25 03-14-25 05-15000000000000000000000000000000000	
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IT MARKINGS AT	THE CLEAN	AND DIRTY C	ONDITION	IS. ITW	ITH F SC	IEATIN HEDU	IG HC LE		ATE	R RE			PLAN MARK		US NECK SIZE			SECTION JLE DN			1020
C MARKINGS AT	THE CLEAN	AND DIRTY C	ONDITION UN MIN COOLI CFM	IS. I IT W NG MAX	ITH F SC SC CFM	IEATIN HEDU	IG HC LE EAT (°F)	DT WA	ATE	R RE	ЕНЕА ^Т мвн	GPM NC	PLAN MARK	DIFF CFM 0-100	US NECK SIZE 6"Ø	SQUARE PLAC ROUND INLET CONSTRUCTIO	DESCRIPTIC DESCRIPTIC QUE DIFFUSER, (OF SIZE INDIC ON. PROVIDE T	SECTION JLE DN , HIGH CAPACITY, CATED) ALUMINUM HROW PATTERN			TUES
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T MARKINGS AT EQUIPMENT NO. VAVUPS-1 VAVUPS-2 VAVUPS-3 VAVUPS-4	THE CLEAN	AND DIRTY C AND DIRTY C AND DIRTY C AND DIRTY C	ONDITION UN COOLI CFM 150 600 150 250	IS. IT W	ITH F SC SC X HEATING CFM 500 1800 500 825	IEATIN HEATING CFM 250 900 250 400	IG HC LE EAT (°F) 55 55 55 55	DT WA LAT (°F) E 95 95 95 95	ATE WT (°F) 180 180 180 180	R RE LWT (°F) 150 150 150	EHEA MBH 10.9 39.1 10.9 17.4	GPM NC 0.7 - 2.6 - 0.7 - 1.2 -	CCLT	DIFF CFM 0-100 101-245 246-350 351-500 501-900	SIZE 6"Ø 8"Ø 10"Ø 12"Ø	SQUARE PLAC ROUND INLET CONSTRUCTIC AS INDICATED, BE EQUAL TO WITH INSULAT INSULATION V BARRIER.	DESCRIPTIC DESCRIPTIC DESCRIPTIC DUE DIFFUSER, (OF SIZE INDIC ON. PROVIDE T D. WHERE NO T , PROVIDE 4-WA PRICE MODEL TED BACKPAN, VITH FOIL SCRI	SECTION JLE DN , HIGH CAPACITY, CATED) ALUMINUM HROW PATTERN HROW PATTERN AY THROW. SHALL ASPD. PROVIDE MINIMUM, R-6 M VAPOR		ee, Florida	
T MARKINGS AT EQUIPMENT NO. VAVUPS-1 VAVUPS-2 VAVUPS-3 VAVUPS-4 VAVUPS-5	THE CLEAN	AND DIRTY C AND DIRTY C AND DIRTY C AND DIRTY C	ONDITION UN COOLI CFM 150 600 150 250 450	IS. IT W	TITH F SC SC X HEATING CFM 500 1800 500 825 1400	IEATIN HEATING 250 900 250 400 750	IG HC LE EAT (°F) 55 55 55 55 55	DT WA LAT (°F) E 95 9 95 9 95 9 95 95 1	ATE WT (°F) 180 180 180 180 180	R RE LWT (°F) 150 150 150 150 150	MBH 10.9 39.1 10.9 39.1 39.1 10.9 32.6	GPM NC 0.7 - 2.6 - 0.7 - 1.2 - 2.2 -	CCLT	DIFF CFM 0-100 101-245 246-350 351-500 501-900	SUS NECK SIZE 6"Ø 8"Ø 10"Ø 12"Ø 14"Ø	SQUARE PLAC ROUND INLET CONSTRUCTIO AS INDICATED, BE EQUAL TO WITH INSULAT INSULATION W BARRIER. ALL ALUMINUI WITH LOUVER	DESCRIPTIC DESCRIPTIC	SECTION JLE JLE DN , HIGH CAPACITY, CATED) ALUMINUW HROW PATTERN HROW		assee, Florida	
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EQUIPMENT NO. VAVUPS-1 VAVUPS-2 VAVUPS-3 VAVUPS-4 VAVUPS-5 VAVUPS-6 VAVUPS-7 VAVUPS-8	THE CLEAN	AND DIRTY C AND	ONDITION UN MIN COOLI CFM 150 600 150 250 450 450 450 450		ITHF SC SO X HEATING CFM 500 1800 500 825 1400 1400 1400 1400	IEATING CFM 250 250 250 250 250 250 250 250 250 250	IG HC LE EAT (°F) 55 55 55 55 55 55 55 55 55 55 55	DT WA LAT (°F) E 95 2 95 2 95 2 95 2 95 2 95 2 95 2 95 2	ATE WT (°F) 180 180 180 180 180 180 180 180 180	R RE LWT (°F) 150 150 150 150 150 150 150	MBH 10.9 39.1 10.9 39.1 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6	GPM NC 0.7 - 2.6 - 0.7 - 1.2 - 2.2 - 2.2 - 2.2 - 2.2 - 2.2 -	CCLT	DIFF CFM 0-100 101-245 246-350 351-500 501-900 REFER TC VIEWS FO AND SI	SIZE 6"Ø 8"Ø 10"Ø 12"Ø 14"Ø DPLAN DR CFM ZES	SQUARE PLAC ROUND INLET CONSTRUCTION AS INDICATED IS INDI	DESCRIPTIC DESCRIPTIC	SECTION JLE JLE DN , HIGH CAPACITY, CATED) ALUMINUW HROW PATTERN HROW PATTERN AY THROW SHALL ASPD. PROVIDE MINIMUM, R-6 M VAPOR ION RETURN AIR , 3/4" BLADE DVIDE LAY-IN ATED IN LAY-IN ATED IN LAY-IN ITH SURFACE LOCATED IN /ALLS.		Tallahassee, Florida	
F MARKINGS AT EQUIPMENT NO. VAVUPS-1 VAVUPS-2 VAVUPS-3 VAVUPS-4 VAVUPS-5 VAVUPS-6 VAVUPS-7 VAVUPS-8 DTES: BASIS OF DESIC PROVIDE ALL TROVIDED FOR AS (-) INDICATES N	THE CLEAN	AND DIRTY C AND D	ONDITION NUN COOLI CFM 150 600 150 250 450 450 450 450 450 450 450 4	IS.	ITHH SC K HEATING 500 1800 500 1800 500 1400 1400 1400 1400 1400 1400 1400 1400	IEATIN HEATING CFM 250 900 250 400 750 750 750 750 750 750 750	IG HC LE EAT (°F) 55 55 55 55 55 55 55 55 55 55 55 55 55	LAT (°F) E 95 95 95 1 95	ATE WT (°F) 180 180 180 180 180 180 180 180 180 180	R RE LWT (°F) 150 150 150 150 150 150 150 150 20000000000	MBH 10.9 39.1 10.9 39.1 10.9 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6	GPM NC 0.7 - 2.6 - 0.7 - 1.2 - 2.2 - 2.2 - 2.2 - 2.2 - 2.2 - 3AS PANEL	CCLT	DIFF CFM 0-100 101-245 246-350 351-500 501-900 REFER TC VIEWS FO AND SI	SUS NECK SIZE 6"Ø 8"Ø 10"Ø 12"Ø 14"Ø 14"Ø DPLAN DR CFM ZES	SQUARE PLAC ROUND INLET CONSTRUCTIC AS INDICATED IS INDICATED IN CONSTRUCTION SPACING AND BOTH HORIZO PROVIDE LAY- LOCATED IN L WITH SURFAC	CHEDU DESCRIPTIC DESCR	SECTION JLE JLE JN , HIGH CAPACITY, CATED) ALUMINUW HROW PATTERN HROW PATTERN HROW PATTERN AY THROW. SHALL ASPD. PROVIDE MINIMUM, R-6 M VAPOR ION RETURN AIR, 3/4" BLADE DVIDE LAY-IN ATED IN LAY-IN ATED IN LAY-IN ATED IN LAY-IN ATED IN LAY-IN ITH SURFACE LOCATED IN ALLS. ION DOUBLE FFUSER WITH J4" BLADE DIRECTIONS IN RTICAL PLANES. FER WHERE SILINGS. PROVIDE ORDER WHERE ILINGS. PROVIDE ORDER WHERE IGS OR ON WALLS		T LONDA OLALE UNIVENDIT	Title:
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Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 850,942.1718 www.think3d.net
Description: Controls - Mechanical
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M7.1

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DMM DMM BSS THESE DRAWINGS AND RENDE MEDIA AND CADD FILES, ARE T PURPOSE EXCEPT BY WRITTEI DI ACEN ON EACH DA AWING E' S Ľ ELIN Ш NNN \square REMOI S $\overline{}$ # SED SED **()** Ω Ο Architects Lewis + Whitlock 206 West Virginia St. Tallahassee, Florida 32301 RICHARD LINDBURG 850,942.1718 www.think3d.net WESLEY THIGPEN, JR Description: **Controls - Mechanical S** Sheet No. M7.2