		FIRESTOP	P SCHEDULE	e of throug	GH PENETRAT	ION SYSTEMS.	BASIS OF DESIGN: HILTI, IN	NC.	APPLICABL	E CODES	H
TYPE OF PENETRANT F-RATING CONCRETE FLOORS CONCRE					CON	ICRETE OR BLOCK WALLS GYPSUM WALLS HILTI PRODUCTS		PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.			
CIRCULA		ENINGS 1	F-A	A-0006, C-AJ-0055, C-AJ-00)90	C-AJ-0055, C-AJ-0090		CP 680, CP 618, FS-ONE MAX, CFS- BL	1. ASHRAE		TEN
METAL F	20000-0999) PIPES OR CO	2 NDUIT 1	F-A C-/	A-0006, C-AJ-0055, C-AJ-00 AJ-1226, F-A-1028, F-A-10	990 17 C-AJ	C-AJ-0055, C-AJ-0090 -1226, W-J-1067, W-J-1020	 W-L-1054, W-L-1058, W-L-1164, W-L-1506	CP 680, FS-ONE MAX, CP 606, CFS-	 a. STANDARD 55 b. STANDARD 62.1 c. STANDARD 90.1 	VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2019 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL	2. TRA 3. CON 4 PRC
(1000-1999) 2 C-AJ-1226, F-A-1028, F-A-1017 C-AJ-1226, W-					17 C-AJ-1226	, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	S SIL GG, CFS-D, MINERAL WOOL		BUILDINGS - 2019	SYS 5. INS
NON-M CONDU	ETALLIC PIP IT (I.E. PVC, (E OR 1 CPVC, 1	C-AJ-203	1, C-AJ-2167, C-BJ-2021, C	S-AJ-2342	C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL	3. <u>NATIONAL FIRE CODES</u>		6. COC
ABS, FRP, ENT) (2000-2999)		-2999) 2	F-A 2053, F-A C-AJ-2167	2025, C-AJ-2109, C-AJ-209 7, C-BJ-2021, C-AJ-2371, C	98, C-AJ-2271, C-AJ-2 C-AJ-2342	109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	SL, CFS-S SIL CG, CP 648	a. NFPA 1 b. NFPA 70 c. NEPA 72	FIRE CODE - 2021 (FLORIDA EDITION) NATIONAL ELECTRICAL CODE - 2020 NATIONAL FIRE ALARM AND SIGNALING CODE - 2019	7. INST OF F
INS	JLATED PIPE	s 1	F-A C-A	A 5015, F-A 5017, C-AJ-509 J-5091, C-AJ-5090, C-AJ-50	00, 048 C-AJ-5090,	C-AJ-5091, C-AJ 5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047		d. NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021	8. DUC 9. COC LAY
	5000-5999)	2	F-4	A 5015, F-A 5017, C-AJ-509 C-AJ-5091, C-AJ-5090	90, C-AJ-5090,	C-AJ-5091, C-AJ-5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	CP 680, FS-ONE MAX, MINERAL WOOL	- e. NFPA 90B f NFPA 91	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2021 STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2020	10. THE 11. THE
MIXE) PENETRAN	TS 1	C-A	J-8099, C-AJ-8056, C-AJ-8	143 C-AJ-8099,	C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013		g. NFPA 101	LIFE SAFETY CODE - 2021 (FLORIDA EDITION)	BAL
	8000-8999)	2	C-AJ-8099	9, C-AJ-8056, C-AJ-8143, C	C-AJ C-AJ	8099, C-AJ-8056, W-J-8007, C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618	4. <u>FLORIDA BUILDING COD</u> a. BUILDING CODE b. EXISTING BUILDING	CODE	DUC 13. WHI
NOTES:									c. ENERGY CONSERVA d. MECHANICAL CODE	ATION CODE	14. WH
1. JOB		IONS OF EACH THROU	JGH-PENETRATION FIRE	ESTOP SYSTEM MUST ME	EET ALL DETAILS OF THE U	-CLASSIFIED SYSTEM SELECTE			f. ACCESSIBILITY COD	E	15. PRO BOX
2. IF JC 3. WHE	RE MORE T	HAN ONE APPLICABLE	UL-CLASSIFIED SYSTEM	M IS LISTED IN THE SCHED	DULES ABOVE, CONTACT FIR	YSTEM WHICH IS MOST ECONON	AICAL FOR EACH THROUGH-PENETRATION FIRESTO	P SYSTEM.	5. <u>FLORIDA STATUTES</u> a. CHAPTER 471 b. CHAPTER 523 80		16. PRC 17. PRC
4. COC	RDINATE W	ORK WITH OTHER TRA	DES TO ENSURE THAT	PENETRATION OPENING	SIZES ARE APPROPRIATE I	FOR PENETRANT LOCATIONS, A	ND VICE-VERSA.		D. CHAFTER 355.00	ENFORCEMENT	18. INS ⁻ TAK
5. ALL	THROUGH-P	ENETRATION FIRESTO	OPS SHALL BE PROVIDE	D BY ONE MANUFACTUR	ER. <u>APPROVED MANUFACT</u>	<u>URERS</u> : HILTI, RECTORSEAL, 3M	I, STL.		6. <u>FLORIDA ADMINISTRATI</u> a. CHAPTER 61G15-34	VE CODE RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS	INDI 19. WHI
CEII	ING S	UPPLY DIFI	USERS				BUTION		b. CHAPTER 69A-3	FIRE PREVENTION - GENERAL PROVISIONS	LOC 20. WHI
				FACE DI	IMENSION				RESOLVE, IN WRITING, ANY PRIOR TO BIDDING. AFTER A FOR COMPLIANCE WITH AP	CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITITION NECESSARY PLICABLE CODES AT NO ADDITIONAL COST TO OWNER	
SYMBOL	CF	M NECK SI	ZE MINIMUM - MAXI 1/2 SPACING	MUM HARD GEILING	LAY-IN CEILING		RECTANGULAR SHEET METAL DUCT		THE CONTRACTOR SHALL I	NCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR,	STR ON
	40-	80 6"Ø	4' - 5'	12x12	24x24	<u> </u>	ROUND SHEET METAL DUCT		ORDINANCES, RULES, AND	PARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS.	MOI THE
	185-	340 10"Ø	4 - 8 8' - 10'	24x24	24x24 24x24		DOUBLE WALL SHEET METAL DUCT (DUCT SIZE IS	INSIDE DIMENSION.)	WHERE THERE IS CONFLIC CODES SHALL GOVERN, EX	T BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE	AVA
	345-	500 12"Ø	9' - 10'	24x24	24x24		FLEXIBLE RUNOUT DUCT		_ STRINGENT.		INTE ADD 22 APP
	505-	600 14"Ø	10' - 12'	24x24	24x24		ROUND OR RECTANGULAR TAKE-OFF FITTING WIT BALANCING DAMPER - SEE DETAIL J/M5.1	Н	COMMISSIC	DNING NOTES	SPE SHA
1. RUN	OUT DUCTS	TO DIFFUSERS SHALL	BE THE SAME SIZE AS	THE INDICATED NECK SIZ	ZE.		SUPPLY AIR DUCTWORK SECTION				23. PRC AIR SHC
						- 2	RETURN AIR DUCTWORK SECTION		1. THE BUILDING MECHAN FLORIDA BUILDING COI	NICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH THE DE – ENERGY CONSERVATION, SECTION C408 "SYSTEMS COMMISSIONING".	24. MIN 3/4".
SID	EWALL	REGISTER	S AND GRIL	LES			EXHAUST AIR DUCTWORK SECTION		2. A COMMISSIONING PRO COMMISSIONING SERV	DVIDER (H2ENGINEERING) HAS ALREADY BEEN RETAINED TO PROVIDE THE ICES FOR THIS PROJECT.	25. SEC TIMI REN
0.5		SUPP	LY AIR	RETURN AIR	OR EXHAUST AIR		AIR BALANCING DAMPER (MANUAL)		- 3. MECHANICAL SYSTEM SYSTEM-TO-SYSTEM IN	TESTING SHALL ENSURE THAT COMPONENTS, EQUIPMENT, SYSTEMS, AND	26. PRC SER
CF	M	REGISTER SIZE	RUNOUT DUCT	REGISTER SIZE	RUNOUT DUCT		CONTROL DAMPER (MOTORIZED)		ACCORDANCE WITH TH TESTING SHALL INCLUI	TE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. DE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL-	INS ⁻ 27. EXH
0-	95	8x6	8x6	8x6	8x6	FD I	FIRE DAMPER - SEE DETAIL B/M5.3		4. A COMMISSIONING PLA	D EMERGENCY CONDITIONS.	28. COC 29. PRI
100-	195	10x6	10x6	10x6	10x6		DUCTWORK FLEXIBLE CONNECTION		INCLUDE THE FOLLOW ACCOMPLISHED DURIN	ING ITEMS: (1) A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE IG EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED	30. PRC
200-	295	12x6	12x6	18x6	18x6	- [2,]	DUCT ELBOW WITH SINGLE THICKNESS TURNING	/ANES	APPLIANCES, OR SYST (3) FUNCTIONS TO BE T	EMS TO BE TESTED AND A DESCRIPTION OF THE SPECIFIC EQUIPMENT, EMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED; "ESTED, INCLUDING BUT NOT LIMITED TO, CALIBRATIONS AND CONTROLS; (4)	31. DUC REII
300-	395	16x6	16x6	24x6	24x6		SQUARE CEILING SA DIFFUSER AND AIR FLOW (CF	M)(SEE SCHEDULE FOR SIZES	CONDITIONS UNDER W AFFIRMING WINTER AN MEASUBABLE CRITERI	HICH THE TEST WILL BE PERFORMED, INCLUDING BUT NOT LIMITED TO, ID SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS; (5)	
500-	595	18x10	10x0 18x10	30x10	30x0	CFM	UNLESS NOTED OTHERWISE)		5. PRIOR TO PASSING TH	E FINAL INSPECTIONS, THE COMMISSIONING PROVIDER SHALL PROVIDE	
							NEW DUCT		EVIDENCE OF SYSTEM	S COMMISSIONING AND COMPLETION. A COMPLETED PRELIMINARY REPORT EST PROCEDURES AND RESULTS SHALL BE PROVIDED TO THE OWNER, MMISSIONING PROVIDER. THE REPORT SHALL BE IDENTIFIED AS	
						< <u> </u>	EXISTING DUCT TO REMAIN		"PRELIMINARY COMMIS FOUND DURING TESTIN	SIONING REPORT" AND SHALL IDENTIFY: (1) ITEMIZATION OF DEFICIENCIES IG THAT HAVE NOT BEEN CORRECTED AT THE TIME OF THE REPORT	
MI	SCELL	ANEOUS				<i>٤<i></i></i>	EXISTING MATERIALS TO BE REMOVED		PREPARATION; (2) DEF AND (3) CLIMATIC CONI PRELIMINARY COMMIS	ERRED TESTS THAT CANNOT BE PERFORMED DUE TO CLIMATIC CONDITIONS; DITIONS REQUIRED FOR PERFORMANCE OF DEFERRED TESTS. THE SIONING REPORT SHALL BE MADE AVAILABLE TO THE CODE OFFICIAL AT	A
		POINT OF CO	NNECTION, NEW TO EXI	STING			DUCT MOUNTED SMOKE DETECTOR (PROVIDED A	ND INSTALLED BY FIRE ALARM			AC AFF
	→ ►	POINT INDICA	TED LIMIT OF DEMOLITI	ON			CONTRACTOR)		TO OWNER. THE REPO	ORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND SHALL DF FUNCTIONAL PERFORMANCE TESTS; (2) DISPOSITION OF DEFICIENCIES	AHAP AHU BAS
		– 2 HOUR FIRE	RATED WALL				DOOR UNDERCUT (3/4", UNO)		FOUND DURING TESTIN (3) FUNCTIONAL PERFO	IG, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED; ORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING MEASURED CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR	BD BF
									REPEATABILITY. EXCEP REPORT PREPARATION	<u>PTION:</u> DEFERRED TESTS WHICH CANNOT BE PERFORMED AT THE TIME OF FOR CLIMATIC CONDITIONS.	BTUH C
VA	LVES					4-4-12	-SLOT WIDTH (2 = 1/2", 3 = 3/4", 4 = 1", 6 = 1 1/2", 8 = 2 -INLET SIZE (INCHES)	⁽ⁿ)	7. HVAC, CONTROLS AND INCLUDING (NOT LIMITE	TAB CONTRACTORS SHALL ASSIST WITH COMMISSIONING EFFORTS ED TO) PERFORMING PRE-TESTING OF FUNCTIONAL PERFORMANCE TEST	CC CFM CHW
		BALL VALVE	WITH QUARTER TURN H	HANDLE)		460 	-AIR FLOW (CFM)		(TEST CRITÈRIA PROVI PERFORMING FUNCTIO	DED BY COMMISSIONING AUTHORITY) PRIOR TO COMMISSIONING AUTHORITY IN PERFORMANCE TEST VERIFICATION WITH AFOREMENTIONED	CHWS CHWR
	N.C. •	BUTTERFLY	ALVE (WITH QUARTER	TURN HANDLE)			SA SLOT DIFFUSER WITH PLENUM / BOOT (FLOW D SEE DETAIL D/M5.1 & A/M5.2	NRECTION INDICATED) -			CV DDC DN
							-LENGTH OF DIFFUSER (FEET)		PIPING AND	D FITTINGS	EA EAG
МЕ		EMENTS AN		LS			-NUMBER OF SLOTS -SLOT WIDTH (2 = 1/2", 3 = 3/4", 4 = 1", 6 = 1 1/2")		C	CONDENSATE DRAIN PIPING FROM COOLING COIL	F F Fdb
			T/TEMPERATURE SENS			4-4-4-X	-OPEN RA SLOT WITH SITE BAFFLE			CHILLED WATER RETURN PIPING	°Fwb FD FMB
	.) 						RA SLOT WITH SITE BAFFLE		HHWS	HEATING HOT WATER SUPPLY PIPING	FPM FTU
	_	AIRFLOW MUNI								CAP	GPH GPM HC
						48x8 120	LINEAR BAR DIFFUSER, SIZE AND AIR FLOW (CFM).			ELBOW TURNED UP	HHW
										ELBOW TURNED DOWN	
										NEW PIPE	
											—

TYPE O	F PENETRANT	F-RATING		CONCRETE FLOORS		CONCRETE OR BLOCK WALLS	GYPSUM WALLS	HILTI PRODUCTS	PERFORM WORK IN ACC	ORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES,	
		(HR) 1	F-A	A-0006 C-A.I-0055 C-A.I-00	190	C-AJ-0055, C-AJ-0090				ND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.	
CIRCULAR (0)	BLANK OPENINGS 000-0999)	2	F-A	A-0006, C-AJ-0055, C-AJ-00	90	C-AJ-0055, C-AJ-0090		- CP 680, CP 618, FS-ONE MAX, CFS- BL	a. STANDARD 55	THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY - 2017	
METAL PIF	PES OR CONDUIT	1	C-/	AJ-1226, F-A-1028, F-A-101	17	C-AJ-1226, W-J-1067, W-J-1020	W-L-1054, W-L-1058, W-L-1164, W-L-1506	CP 680, FS-ONE MAX, CP 606, CFS-	c. STANDARD 90.1	ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL	
<u>(1000-1000)</u> Z C-AJ-1226, F-A-1028, F-A-1017					17	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	S SIL GG, CFS-D, MINERAL WOOL		BUILDINGS - 2019	
NON-ME	TALLIC PIPE OR	1	F-A-2053 C-AJ-2271	3, F-A-2025, C-AJ-2109, C-A 1, C-AJ-2167, C-BJ-2021, C	AJ-2098, AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 643N, MINERAL WOOL,	2. OCCUPATIONAL SAFE	ETY AND HEALTH REGULATIONS (USHA).	
CONDUIT ABS, FRP,	(I.E. PVC, CPVC, ENT) (2000-2999)	2	F-A 2053, F-A 2	2025, C-AJ-2109, C-AJ-209	98, C-AJ-2271,	C-AJ-2109, C-AJ-2098, C-AJ-2167,	W-L-2078. W-L-2075. W-L-2128	- CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648	a. NFPA 1	<u>FIRE CODE - 2021 (FLORIDA EDITION)</u>	
			C-AJ-2167	7, C-BJ-2021, C-AJ-2371, C	C-AJ-2342	C-AJ-2371, C-AJ-2342			b. NFPA 70 c. NFPA 72	NATIONAL ELECTRICAL CODE - 2020 NATIONAL FIRE ALARM AND SIGNALING CODE - 2019	
INSU	ATED PIPES	1	F-A C-A	A 5015, F-A 5017, C-AJ-509 J-5091, C-AJ-5090, C-AJ-50	00, 048	C-AJ-5090, C-AJ-5091, C-AJ 5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047		d. NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021	
(5)	000-5999)		F-A	A 5015, F-A 5017, C-AJ-509	90,			CP 680, FS-ONE MAX, MINERAL WOOL	e. NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 2021	
		2		C-AJ-5091, C-AJ-5090		C-AJ-3090, C-AJ-3091, C-AJ-3001, W-J-3042	VV-L-5028, VV-L-5029, VV-L-5047		f. NFPA 91 a. NFPA 101	STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2020 LIFE SAFETY CODE - 2021 (FLORIDA EDITION)	
MIXED	PENETRANTS	1	C-A	J-8099, C-AJ-8056, C-AJ-81	143	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013	_	4. FLORIDA BUILDING C	ODE. 2023 8TH EDITION	
(8)	000-8999)	2	C-AJ-8099	9, C-AJ-8056, C-AJ-8143, C	-AJ-8252	C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618	a. BUILDING CODE b. EXISTING BUILDIN	NG CODE	
NOTES:					·				c. ENERGY CONSER	EVATION CODE	
1. JOBSI	TE CONDITIONS OF E	EACH THROUGH	I-PENETRATION FIRE	ESTOP SYSTEM MUST ME	EET ALL DETAILS	S OF THE UL-CLASSIFIED SYSTEM SELECTE	ED.		e. PLUMBING CODE		
2. IF JOE	SITE CONDITIONS D	O NOT MATCH /	ANY UL-CLASSIFIED S	SYSTEMS IN THE SCHEDU	ULES ABOVE, CO	ONTACT FIRESTOP MANUFACTURER FOR A	ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRA	AWINGS.			
3. WHEF	E MORE THAN ONE	APPLICABLE UL	-CLASSIFIED SYSTEM	M IS LISTED IN THE SCHEI	DULES, CHOOS	E THE UL SYSTEM WHICH IS MOST ECONO	MICAL FOR EACH THROUGH-PENETRATION FIRESTOP	SYSTEM.	a. CHAPTER 471	ENGINEERING	
4. COOR	DINATE WORK WITH	OTHER TRADE	S TO ENSURE THAT	PENETRATION OPENING	SIZES ARE APP	ROPRIATE FOR PENETRANT LOCATIONS, A	AND VICE-VERSA.		D. CHAFTER 333.00	ENFORCEMENT	
5. ALL TI	HROUGH-PENETRATI	ION FIRESTOPS	SHALL BE PROVIDE	D BY ONE MANUFACTUR	ER. APPROVED	MANUFACTURERS: HILTI, RECTORSEAL, 3N	M. STL.		6. FLORIDA ADMINISTRA		
										34 RESPONSIBILITY ROLES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS	
CEIL	ING SUPPL	Y DIFFL	JSERS				BUTION		D. CHAPTER 69A-3		
				FACE DI	IMENSION				RESOLVE, IN WRITING, A PRIOR TO BIDDING. AFTE	NY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER R AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITITION NECESSARY	
SYMBOL	CFM	NECK SIZE	MINIMUM - MAXI	MUM HARD	LAY-IN		RECTANGULAR SHEET METAL DUCT		FOR COMPLIANCE WITH	APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.	
	40.90	6"0		CEILING	CEILING				THE CONTRACTOR SHAL MATERIALS, SERVICES, A	L INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS,	
-	40-80	6"Ø 8"Ø	4' - 5' /' 8'	12X12	24X24		ROUND SHEET METAL DUCT		ORDINANCES, RULES, AN	ID REGULATIONS.	
	185-3/0	10"0	4 - 0 8' - 10'	24×24	24724		DOUBLE WALL SHEET METAL DUCT (DUCT SIZE IS IN	ISIDE DIMENSION.)	WHERE THERE IS CONFL CODES SHALL GOVERN.	ICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE	
	345-500	10 Ø	9' - 10'	24x24 24x24	24x24 24x24				STRINGENT.		
-	505-600	14"Ø	10' - 12'	24x24	24x24		FLEXIBLE RUNOUT DUCT				
							ROUND OR RECTANGULAR TAKE-OFF FITTING WITH BALANCING DAMPER - SEE DETAIL J/M5.1		COMMISS	IONING NOTES	
1. RUNO	UT DUCTS TO DIFFU	SERS SHALL BE	THE SAME SIZE AS	THE INDICATED NECK SIZ	ZE.						
									1. THE BUILDING MECH	ANICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH THE	
SIDE							RETURN AIR DUCTWORK SECTION				
SIDE	WALL REG	IJIEKJ		LEJ			EXHAUST AIR DUCTWORK SECTION		2. A COMMISSIONING F COMMISSIONING SE	RVICES FOR THIS PROJECT.	
		SUPPLY /	AIR	RETURN AIR	OR EXHAUST A		AIR BALANCING DAMPER (MANUAL)		3. MECHANICAL SYSTE	M TESTING SHALL ENSURE THAT COMPONENTS, EQUIPMENT, SYSTEMS, AND	
CFN	REGIS	TER SIZE	RUNOUT DUCT	REGISTER SIZE	RUNOU		CONTROL DAMPER (MOTORIZED)		SYSTEM-TO-SYSTEM ACCORDANCE WITH	I INTERFACING RELATIONSHIPS ARE CALIBRATED, ADJUSTED, AND OPERATE IN THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.	
									TESTING SHALL INCI LOAD, PART-LOAD, A	LUDE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL- AND EMERGENCY CONDITIONS.	
0-95	5	3x6	8x6	8x6	8	x6 FD	FIRE DAMPER - SEE DETAIL B/M5.3		4. A COMMISSIONING F	PLAN SHALL BE DEVELOPED BY THE COMMISSIONING PROVIDER AND SHALL	
100-19	95 1	0x6	10x6	10x6	10)x6	DUCTWORK FLEXIBLE CONNECTION		INCLUDE THE FOLLC ACCOMPLISHED DUI	OWING ITEMS: (1) A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE RING EACH PHASE OF COMMISSIONING, INCLUDING THE PERSONNEL INTENDED	
200-29	95 1	2x6	12x6	18x6	18	аларанан айтар аларанан айтар а			TO ACCOMPLISH EA APPLIANCES, OR SY	CH OF THE ACTIVITIES; (2) A LISTING OF THE SPECIFIC EQUIPMENT, STEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED;	
300-39	95 1	6x6	16x6	24x6	24	Ix6			(3) FUNCTIONS TO B CONDITIONS UNDER	E TESTED, INCLUDING BUT NOT LIMITED TO, CALIBRATIONS AND CONTROLS; (4)	
400-49	95 1	8x8	18x8	30x8	30)x8	SQUARE CEILING SA DIFFUSER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) AFFIRMING WINTER AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS; MEASURABLE CRITERIA FOR PERFORMANCE.			AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS; (5)	
500 E)5 10	2×10	10,10	20v10	20	×10			5. PRIOR TO PASSING	THE FINAL INSPECTIONS. THE COMMISSIONING PROVIDER SHALL PROVIDE	
			10/10	30×10			NEW DUCT		EVIDENCE OF SYSTE THE COMMISSIONIN	EMS COMMISSIONING AND COMPLETION. A COMPLETED PRELIMINARY REPORT G TEST PROCEDURES AND RESULTS SHALL BE PROVIDED TO THE OWNER.	
									CERTIFIED BY THE COMMISSIONING PROVIDER. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT" AND SHALL IDENTIFY: (1) ITEMIZATION OF DEFICIENCIES		
						î	EXISTING DUCT TO REMAIN		FOUND DURING TES	TING THAT HAVE NOT BEEN CORRECTED AT THE TIME OF THE REPORT FEERRED TESTS THAT CANNOT BE PERFORMED DUE TO CLIMATIC CONDITIONS	
MIS	CELLANEC	DUS				£7777777777777777777777777777777777777	EXISTING MATERIALS TO BE REMOVED		AND (3) CLIMATIC CC	NDITIONS REQUIRED FOR PERFORMANCE OF DEFERRED TESTS. THE	
	— ► P(CTION. NEW TO EXIS	STING				THEIR REQUEST.			
\sim	→ P(LIMIT OF DEMOLITION	ON		•	DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND CONTRACTOR)	SMOKE DETECTOR (PROVIDED AND INSTALLED BY FIRE ALARM 6. WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY, PROVIDE THE FINAL COMMISSIONING REPORT AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER. THE REPORT SHALL BE IDENTIFIED AS "FINAL COMMISSIONING REPORT" AND TO OWNER.			
	— - — 1	HOUR FIRE RAT	ED WALL				INCLUDE (1) RESULTS OF FUNCTIONAL PERF FOUND DURING TESTING, INCLUDING DETAIL			S OF FUNCTIONAL PERFORMANCE TESTS; (2) DISPOSITION OF DEFICIENCIES	
	2	HOUR FIRE RAT	ED WALL				DOOR UNDERCUT (3/4", UNO) DOOR UNDERCUT (3/4", UNO) FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED (3) FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISS PROCESS, INCLUDING MEASURED CRITERIA FOR TEST ACCEPTANCE, PROVIDED F			FORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING	
							-LENGTH OF DIFFUSER (FEET)		PROCESS, INCLUDING MEASURED CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY. EXCEPTION: DEFERRED TESTS WHICH CANNOT BE PERFORMED AT THE TIME OF		
							—NUMBER OF SLOTS —SLOT WIDTH (2 = 1/2", 3 = 3/4", 4 = 1", 6 = 1 1/2", 8 = 2")				
VAL	.VES					4-4-4-12				IITED TO) PERFORMING PRE-TESTING OF FUNCTIONAL PERFORMANCE TEST	
	⊢. B	ALL VALVE (WI	TH QUARTER TURN H	HANDLE)						TION PERFORMANCE TEST VERIFICATION WITH AFOREMENTIONED	
		UTTERFLY VAL	VE (WITH QUARTER	TURN HANDLE)			SA SLOT DIFFUSER WITH PLENUM / BOOT (FLOW DIF SEE DETAIL D/M5.1 & A/M5.2	RECTION INDICATED) -			
	u u										
							-LENGTH OF DIFFUSER (FEET)				
MEA		ITS AND	CONTROL	LS		11	-SLOT WIDTH ($2 = 1/2^{"}$, $3 = 3/4^{"}$, $4 = 1^{"}$, $6 = 1 1/2^{"}$)		CHWS	CONDENSATE DRAIN PIPING FROM COOLING COIL CHILLED WATER SUPPLY PIPING	
						4-4-4-X	OPEN RA SLOT WITH SITE BAFFLE		CHWR	CHILLED WATER RETURN PIPING	
Ū) 1	HERMOSTAT/TE	MPERATURE SENSC	DR		n _ l			HHWS	- HEATING HOT WATER SUPPLY PIPING	
AFS		LOW MONITOR	ING STATION				RA SLOT WITH SITE DAFFLE		HHWR-	- HEATING HOT WATER RETURN PIPING	
										САР	
						48x8 120	LINEAR BAR DIFFUSER, SIZE AND AIR FLOW (CFM).			ELBOW TURNED UP	
										ELBOW TURNED DOWN	
										TEE, OUTLET UP	
										TEE, OUTLET DOWN	
										NEW PIPE	
										EXISTING PIPE TO REMAIN	
									<i>9111111</i> 2 — — — —	EXISTING PIPE TO BE REMOVED	

Η

- 1. PRE PRE TE EN 2. TRAI 3. COM 4. PRO
- SYS 5. INST FO
- 6. COO PR
- 7. INST OF F
- 8. DUC 9. COO
- LAY
- 10. THE I 11. THE (12. PRO) BAL COI DU
- 13. WHE TRA 14. WHE
- NC 15. PRO BO
- INI 16. PRO 17. PRO
- 18. INST TAKE IND
- 19. WHE VIEV LOC
- 20. WHE
- 21. IT IS STE ON
- 22. APP
- 23. PRO AIR
- 24. MININ 3/4 25. SEC
- TIM RE 26. PRO SE COI
- INS 27. EXH
- INSU 28. COOI 29. PRIO MANU
- 30. PRO 31. DUC RF CONS

HVAC NOTES	GENERAL NOTES	
 PRESSURE TEST PIPING SYSTEMS WITH WATER AT 100 PSI FOR A MINIMUM OF 4 HOURS. FOR AIR TEST LEAVE PRESSURE ON SYSTEMS FOR AI HOURS. SYSTEM SHALL BE VERIFIED AT SAME TIME AND APPROXIMATELY SAME TEMPERATURE 24 HOURS FOLLOWING FUL. PRESSURE SHALL REMAR ON SYSTEM INTEL INSPECTED BY VERIFICATION OF STEMPER TO AN INFORMATION OF AND SYSTEM INTEL INSPECTED BY VERIFICATION OF STEMPER TO AN INFORMATION OF AND AND AND CART THE CHILD WATER AND HEATING HOT WATER SYSTEMS. COMPLETELY FLUSH AND CLEAN THE CHILLED WATER AND HEATING HOT WATER SYSTEMS. NISTAL DUCTWORK, PIPING, ETC AS HIGH AS POSSIBLE ABOVE CELING WHILE MAINTAINING ACCESSIBILITY FOR EDURING THE REVIEW AT HEAD PRICE AND APPROPRIATE. NISTAL DUCTWORK, PIPING, ETC AS HIGH AS POSSIBLE ABOVE CELING WHILE MAINTAINING ACCESSIBILITY FOR EDURING THE REQUIRED CLEANAGES AND AND AND PIPING SHALL PROVIDE CONVENENT ACCESSIS FOR REMOVAL OF FLIEBS AND FOR MAINTENNACE. DUCT SZES GWEN ARE SHEET METAL SZES. DOCOT SZES GWEN ARE SHEET METAL SZES. DECOT SZES SWELLES STEMP THE REQUIRE AND THE COLOR STELLES THE AND THE CONSTRUCTION ACCOCORDING TO FLIEB MAINTER COLOR SETTING THE REQUIRE STELLES THE AND THE SCH AND THE LIGHTING CONSTRUCTION ACCOCORDING TO FLIEB MAINTER BOUND BUT WORK. SMART CAR DEAVING THE STELLES THE AND THE CONSTRUCTION ACCOCORDING TO FLIEB MAINTER BUT MORE STELLES THAN THE ROUND BUT WORK. SMART CAR DEAVING THE SWELLES DUCT TO ACCESS THE AND THE COLLING THE STELLES THE AND THE SCH AND THE SECTION SETTING THE WARE THE DEFTIL OF THE TRUNK DUCT IS LEAR SECOMMENDIATIONS. SEAL ALL OPER MEMO	 DAMINNES ARE DIAGRAMMENTE DAMINNES ARE DIAGRAMINES INCLUSTED CONTRACT DE EVENISEE AND INSTALLED UNDER THIS DEDUMENTS AND THE STORMAND CONTRINUS. IT IN ECONTRACT DE CONTRACT DE MERSIONS. DEDUMENTS HE IS RESPONSIBLE TO REDULST CLARIFCATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS MASSICATED THERREVITH. BETORE SUBMITING FOR THE WORK, EACH BODER WILL BE RESPONSIBLE TO REDURATE THE CONTRACT DO MORE THE ARCHITECT. BETORE SUBMITING FOR THE WORK EACH BODER WILL BE RESPONSIBLE TO EXCHANGE THE PREMISES AND SATTEY HIMSELF AS TO HE DISTING CONTRACT DA ALLOWARCE WILL BE RESPONSIBLE TO ADDER WILL ADDER WILL ADDER WILL ADDER WILL BE RESPONSIBLE TO ADDER WILL BE RESPONSIBLE ADDER WILL BE RESPONSIBLE ADDER WILL R	ARCHITECTURE BY Inc. Architecture BY Inc. Architecture Corporation A220002203 INC. ISEAL: PROJECT TITLE: PROJECT TITLE: 10B NO.: 24.103 DOB NO.: 24.103 DOB NO.: 24.103
ABBREVIATIONS	DRAWING INDEX	CHECKED: MPP
AC ABOVE CEILING HP HORSEPOWER AHAP AS HIGHAS POSSIBLE LBG LINEAR BAR GRILLE ANU AIR HAADLING UNIT MCA MINIMUM CIRCUIT AMPACITY BAS BULDING AUTOMITON SYSTEM MCA MINIMUM CIRCUIT AMPACITY BB BELOW FLOOR N.A NOT APPLICABLE BTUH BITISH THERMAL UNITS PER HOUR N.O. NORMALLY OLSED C CONDENSATE OA OUTSIDE AIR C COOLING COLI OFCI OWNER FURNISHED, CONTRACTOR INSTALLED CHW CHILED WATER SUPPLY PIPING RAG RETURN AIR REGISTER CHW COLINCE COLING COLING OFCI OWNER FURNISHED, CONTRACTOR INSTALLED CHW CHILED WATER SUPPLY PIPING RAG RETURN AIR REGISTER CHW CHILED WATER FURN PIPING RAG RETURN AIR REGISTER CV CONSTANT VOLUME REF REFINAR REGISTER DC DIRCCT DIGTAL CONTROL PANEL RTM REM REGISTER F EFE EVALUTIONS PER MUNITE SAR SUPPLY VAR AG EFENERTINN NOTAL SAR SUPPLY VAR	M0.1 General Notes, Legends & Schedules M0.3 Schedules M0.1 Mezanine Floor Plan - Demolition MD1.1 Mezzanine Floor Plan - Demolition M1.1 Mezzanine Floor Plan - Demolition M1.2 Level 2 Floor Plan M1.1 Mezzanine Floor Plan M1.2 Level 2 Floor Plan M2.1 Sections M5.2 Details M5.3 Details M5.3 Details M5.3 Details M5.3 Details M5.4 Note Carter States M5.5 Details M5.6 Mezers Plane M5.7 Details M5.8 Details M5.9 Details M5.1 Details M5.2 Details M5.3 Details M5.4 Mexers Plane Mathematic Plane Mexers Plane <td>THIS DRAWING AND ANY REPRODUCTIONS ARE THE PROPERTY AND COPYRIGHT OF BK, INC. AND MAY NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY MANNER WITHOUT WRITTEN PERMISSION OF THE ARCHITECT</td>	THIS DRAWING AND ANY REPRODUCTIONS ARE THE PROPERTY AND COPYRIGHT OF BK, INC. AND MAY NOT BE REPRODUCED, PUBLISHED, OR USED IN ANY MANNER WITHOUT WRITTEN PERMISSION OF THE ARCHITECT

DESIGN CONDITIONS

OUTDOOR CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)

	COOLING (0.4% ANNUAL)
	HEATING (99.6% ANNUAL)
	ENTHALPY (0.4% ANNUAL)
INDOOR CONDITIO	DNS - SUMMER
	OFFICE AREAS (EXCEPT AS NOTED BELOW)
	CLASSROOMS
	TELECOMMUNICATION ROOMS
INDOOR CONDITIO	ONS - WINTER
	OFFICE AREAS (EXCEPT AS NOTED BELOW)
	CLASSROOMS
	TELECOMMUNICATION ROOMS

°Fdb	-	°Fwb	96.2	-	76.2
	°Fdb			26.5	
°Fdb	-	°Fwb	89.0	-	79.9
°Fdb	-	%RH	74	-	55
°Fdb	-	%RH	74	-	50
°Fdb	-	%RH	78	-	55
°Fdb	-	%RH	70	-	30
°Fdb	-	%RH	70	-	30
°Fdb	-	%RH	65	-	30



BUILDING AIR BALANCE - EQUIPMENT SUMMARY

OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
AHU-1	6,005	EF-1	13,510
AHU-2	815	EF-2	445
AHU-3	1,520	EF-3 (NEW)	1,700
AHU-4	1,875		
AHU-5	525		
AHU-6	545		
AHU-7	1,290		
AHU-8	1,380		
AHU-9 (NEW)	1,700		
AHU-1	2,000	EF-1	4,000
AHU-2	2,700		
TOTAL	20,355	TOTAL	19,655
BUILDING PRESSURIZATION		(+)	700

		AIR HANDLING UNIT	LAYOUT				DLING UNITS (OFCI)		
		ABBREVIATIONS:	AHU-9 (OFCI)			DESIGNATION			AHU-9
°Fdb - °	Fwb 96.2 - 76.2	AS ACCESS SECTION				AIR FLOW RATES			
°Fdb	26.5	FS FILTER SECTION MA MIXED AIR					TOTAL SUPPLY AIR	CFM	2,240
°Fdb - °	Fwb 89.0 - 79.9	PH PREHEAT COIL SA SUPPLY AIR	13' - 1"				OUTSIDE AIR	CFM	1,700
		SF SUPPLY FAN					MINIMUM SUPPLY FAN SPEED SETTING	%	76
°Fdb - %	6RH 74 - 55		7				MINIMUM OUTSIDE AIR FLOW SETTING	CFM	1,700
°Fdb - %	6RH 74 - 50		SA I			PRE-FILTER SECTI	ON		
°Fdb - %	6RH 78 - 55			24>			FILTER ORIENTATION		FLAT
							TYPE OF FILTER		2" THICK PLEATED
°Fdb - %	6RH 70 - 30			INOLLEN	ACCESS SIDE		FILTER EFFICIENCY		MERV 8
°Fdb - %	6RH 70 - 30					FINAL FILTER SEC	TION		
'Fdb - %	6RH 65 - 30	≜	54				FILTER ORIENTATION		FLAT
							TYPE OF FILTER		4" THICK PLEATED
		AS ہ	SF AS CC	AS	S		FILTER EFFICIENCY		MERV 13
		ELEVATION Ö				PREHEAT COIL DA	TA - HYDRONIC		
		×		N N			HEATING CAPACITY	MBTUH	52.4
					└──8" BASERAIL		AIR ENTERING HEATING COIL	°F	20
							AIR LEAVING HEATING COIL	°F	48
		L					HHW ENTERING & LEAVING TEMPERATURE	°F - °F	150 – 110
יים דחו							WATER FLOW	GPM	2.6
ICI SIL	ENCER SCHEDU						RUNOUT PIPE SIZE	IN.	3/4
GNATION				DS-1	DS-2		CONTROL VALVE (TYPE)		2-WAY
	ТҮРЕ		DIS	SSIPATIVE	DISSIPATIVE	COOLING COIL DA			
	SHAPE		REC	TANGULAR	RECTANGULAR		TOTAL COOLING CAPACITY	MBTUH	182.4
	CONFIGURATION		S	TRAIGHT	STRAIGHT		SENSIBLE COOLING CAPACITY	MBTUH	91.7
	FLOW DIRECTION (NOTE1)		R	REVERSE	REVERSE		AIR ENTERING COOLING COIL	°Fdb - °Fwb	90.9 - 76.4
	FACE DIMENSION (WIDTH x HE	GHT / or DIAMETER)	IN x IN. 42	x 14	54 x 14			°Fdb - °Fwb	53.0 - 52.5
	LENGTH		IN.	60	60		CHW ENTERING & LEAVING TEMPERATURE	°F - °F	45 - 61
	MAXIMUM AIRFLOW		CFM	3,700	5,485		WATER FLOW	GPM	23
	MAXIMUM PRESSURE DROP (II	ICLUDING SYSTEM EFFECTS)	INCH W.G.	0.2	0.2		MINIMUM FACE AREA (@ 450 FPM)	SQ FT	50
VE BAND DY	│ ∕NAMIC INSERTION LOSS / GENEF	RATED NOISE (NOTE 2)						%	0
	63 Hz		dB / dB 5	/ 32	2 / 32			IN	2
	125 Hz		dB / dB 9	/ 20	4 / 20		CONDENSATE DRAIN SIZE	IN.	2
	250 Hz		dB / dB 18	/ 15	9 / 15				3-WAY
	500 Hz		dB / dB 34	/ 29	21 / 15	SUPPLY FAN SECT	10N		
	1000 Hz		dB / dB 37	/ 35	28 / 25		FAN TYPE		PLENUM
	2000 Hz				20 / 30				DIRECT
	4000 Hz		dB / dB 18	/ 28	12 / 27				YES
	8000 Hz		dB / dB 14	/ 18	10 / 23				FEG 80
JFACTURER				PRICE	PRICE				14
EL NUMBER				RM60	RH60		FAN OLIANTITY (INCLUDING REDUNDANCY)		1
S:								π	
1	FORWARD FLOW INDICATES W		DIRECTIONS. REVERSE					IN WG	19
2			77 00					IN WG	4.2
2 3	DYNAMIC INSERTION LOSS DA	TA SHOWN FOR EACH SILENCER IS BASED (DN ACOUSTICAL DATA						0.7
	FROM BASIS OF DESIGN AIR H. IS DIFFERENT FROM BASIS OF	ANDLING UNITS. IF ACOUSTICAL DATA FOR A DESIGN, CONTRACTOR SHALL BE RESPONS	APPROVED ALTERNATE SIBLE FOR SELECTING						0.7
	DUCT SILENCERS THAT DO NO BAND, AS INDICATED IN THE SI	T EXCEED GENERATED NOISE REQUIREMENT CHEDULE ABOVE. PROVIDE ACOUSTICAL CA	NTS FOR EACH OCTAVE					טע אוו איי איי	<u> </u>
	SYSTEMS WITH SILENCERS TO LEVEL, INCLUDING AIRBORNE	DEMOSTRATE THAT THE RESULTANT DUC AND BREAKOUT NOISE, IN THE OCCUPIED S	I BORNE FAN SOUND PACES, MEET NC 30.						2.0 // 05
								חד - אחד - אחד - אחד - אחד	4 - 2.5
	TEST AND BA		G UNITS (EXISTIN	G UNIT	S)			AIVIPS - AIVIPS	
	DESIGNATION				AHU-1				
	DESIGN AIR OLIANTITIES								
		Y AIR FLOW		CFM	13 400				
		DE AIR FLOW		CFM	6 005			dB / dB	
		=\$			0,000		250 HZ	dB / dB	73 / 85
				GPM	20		500 HZ	dB / dB	71 / 79
					2U 00		1000 HZ	dB / dB	65 / 78
				GFIVI	92	MANUFACTURER			TRANE
	DESIGN COULING & HEATI			MDU		NOTES:			
	DOCUS				545	1 I			

DESIGNATION	
DESIGN AIR QUAN	TITIES
	SUPPLY AIR FLOW
	OUTSIDE AIR FLOW
DESIGN WATER QU	JANTITIES
	HEATING HOT WATER FLOW
	CHILLED WATER FLOW
DESIGN COOLING	& HEATING CAPACITIES
	PREHEAT CAPACITY
	TOTAL COOLING CAPACITY
NOTES:	
1	EXISTING AIR HANDLING UNIT SCHEDULE INFORMATI
2	PROVIDE TESTING, ADJUSTING, AND BALANCING (TA
3	BEFORE PERFORMING TESTING AND BALANCING OF REMAIN AND BE REUSED TO VERIFY THAT EXISTING 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 LUE
4	EXISTING CONTROLS AND SEQUENCE TO REMAIN.

TION; PROVIDED FOR REFERENCE ONLY.

AB) WORK IN ACCORDANCE WITH SPECIFICATIONS.

OF EXISTING SYSTEMS, INSPECT EXISTING EQUIPMENT THAT IS TO G EQUIPMENT HAS BEEN CLEANED AND REFURBISHED. VERIFY THE

4

5

INDICATED ABOVE.

MAXIMUM ALLOWABLE DIMENSIONS FOR EQUIPMENT SHOWN IN AIR HANDLING UNIT LAYOUTS THIS PAGE. SUBMITTAL DATA SHALL INCLUDE INFORMATION DEMONSTRATING COMPLIANCE WITH MAXIMUM ALLOWABLE WIDTH INCLUDING COIL PULL.

PROVIDE FANS WITH A MINIMUM DIAMETER OF 15 INCHES AND FAN EFFICIENCY GRADE AS

SUPPLY AIR OPENING SHALL BE OF SUFFICIENT SIZE TO MINIMIZE SYSTEM EFFECT FOR DISCHARGE INTO SUPPLY PLENUM.

JBRICATED.

		EXHAUST AIR	0	
ACE		CFM / FT ₂	CFM / PERSC	ON CFM / FT ₂
COMMO	I CORRIDORS		0	0.06
CONFER	ENCE / MEETING		5	0.06
CORRIDO	DRS		0	0.06
LECTUR	E CLASSROOM		7.5	0.06
LIBRARIE	 ES		5	0.12
OFFICE S	SPACE		5	0.06
RECEPT	ON AREAS		5	0.06
STORAG	E ROOMS (UNOCCUPIED)		0	0.00
TOILET (PUBLIC)	50/70	0	0.00
PUMPS				
DESIGNATION				TP-1, 2
APPLICATION				
	SERVICE			CHW
	DISTRIBUTION TYPE			TERTIARY
	LOCATION TYPE			INTERIOR
DESIGN CRITE	RIA			
	TOTAL SYSTEM DESIGN FLOW		GPM	500
	PUMP SEQUENCING			DUTY / STANDBY
	PUMP QUANTITY (INCLUDING REDUNDANCY)		#	2
PERFORMANC	E			
	PUMP TYPE		(CLOSE-COUPLED END SUCTION
	PERCENT OF DESIGN FLOW		%	100
	CAPACITY		GPM	500
	TOTAL DYNAMIC HEAD		FT.	40
			%	85
	EFFICIENCY			
	EFFICIENCY SHUT-OFF HEAD		FT.	46
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER		FT.	46
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL		FT.	46 7.05 MECHANICAL
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED		FT.	46 7.05 MECHANICAL 1,760
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER		FT. IN. RPM HP - BHP	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER MOTOR ENCLOSURE		FT	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6 ODP
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER MOTOR ENCLOSURE MOTOR WINDING		FT	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6 ODP FUILL
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER MOTOR ENCLOSURE MOTOR WINDING ELECTRICAL CHARACTERISTICS		FT. IN. RPM HP - BHP	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6 ODP FULL 460 / 3
	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER MOTOR ENCLOSURE MOTOR WINDING ELECTRICAL CHARACTERISTICS		FT. IN. RPM HP - BHP V / PH	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6 ODP FULL 460 / 3 VES
ΜΛΝΙΙΓΔΩΤΙΙΡΙ	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER MOTOR ENCLOSURE MOTOR WINDING ELECTRICAL CHARACTERISTICS VARIABLE FREQUENCY DRIVE		FT. IN. RPM HP - BHP V / PH	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6 ODP FULL 460 / 3 YES TACO
MANUFACTUR	EFFICIENCY SHUT-OFF HEAD IMPELLER DIAMETER PUMP SEAL MOTOR SPEED MOTOR HORSEPOWER MOTOR ENCLOSURE MOTOR WINDING ELECTRICAL CHARACTERISTICS VARIABLE FREQUENCY DRIVE R		FT. IN. IN. IN. IN. IN. IN. IN. IN. IN. IN	46 7.05 MECHANICAL 1,760 7 1/2 - 6.6 ODP FULL 460 / 3 YES TACO

ARIABLE FREQUENCY DRIVES

T)N	ELECTRICAL CHARACTERISTICS (V / PH)	TOTAL HORSEPOWER (HP)	PULSE WIDTH MODULATED INVERTER	HARMONIC MITIGATION	BYPASS DEVICE	MANUFACTURER	MODEL NUMBER
	460 / 3	NOTE 1	6-PULSE	3% LINE REACTOR	STARTER	ABB	ACH580
	460 / 3	NOTE 1	6-PULSE	3% LINE REACTOR	STARTER	ABB	ACH580

REFER TO EQUIPMENT SCHEDULE FOR HP REQUIREMENTS. COORDINATE FINAL HP WITH SUBMITTAL ENGINEER APPROVED EQUIPMENT.



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1	00% Co	monto

FANS SL DESIGNATION EF-3 DESI CLASS 1 OR 2 AIR \ SERVICE EXHAUST MOUNTING METHOD SUSPENDED FAN TYPE TUBE AXIAL AIR F AIR FLOW CFM 1,700 STATIC PRESSURE IN. 2.6 FAN SPEED RPM 3,500 FAN DRIVE DIRECT MOTOR SPEED RPM 3,500 HEAT MOTOR POWER HP or W 2 HP MOTOR BRAKE HORSEPOWER BHP 1.55 ELECTRONICALLY COMMUTATED MOTOR NO ELECTRICAL CHARACTERISTICS V / PH 460 / 3 WEIGHT LBS. 122 NOISE LEVEL (RADIATED) SONES or LwA 94 LwA STANDARD NOTES 1, 4, 10, 16, 17, 18 MANUFACTURER GREENHECK AX-41-190-0610-M20 MODEL NUMBER DETAIL REFERENCE G/M5.2 NOTES: (SEE SEQUENCES OF OPERATION ON IC SHEETS)

1 PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED.

- 4 PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.
- 10 PROVIDE SPRING ISOLATORS.
- 16 PROVIDE INLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK).
- 17 PROVIDE OUTLET COMPANION FLANGE (WHERE CONNECTED TO DUCTWORK). 18 PROVIDE WIRE GUARD (WHERE NOT CONNECTED TO DUCTWORK).

FUME EXTRACTOR ARMS							
DESIGNAT	ION		EA-1, 2, 3, 4, 5, 6				
	AIR FLOW	CFM	40				
	COMBINED ARM LENGTH	IN.	48				
	MAXIMUM RADIUS	IN.	60				
	DUCT DIAMETER	IN.	2				
	MOUNT POSITION		WALL				
	COLOR		BLACK				
	MANUFACTURER		MONOXIVENT				
	MODEL NUMBER		MET-1500-50E				
HOOD		I	1				
	HOOD COLOR		BLACK				
	HOOD INLET DIAMETER	IN.	2				
		INI	200				

	MANUFACTURER		MONOXIVENT
	MODEL NUMBER		MET-1500-50EX
OOD			
	HOOD COLOR		BLACK
	HOOD INLET DIAMETER	IN.	2
	HOOD OUTLET SIZE	IN.	2Ø
	MANUFACTURER		MONOXIVENT
	MODEL NUMBER		MES-300-50

TO	R SCHEDULE
	DETAIL REFERENCE

GRAVITY	VENTILATOR SCHEDULE		
DESIGNATION			GV-1
	SERVICE		RELIEF
	AIRFLOW	CFM	1,700
	THROAT SIZE	IN. x IN.	20 x 20
	HOOD DIAMETER	IN. x IN.	30 x 36
	CURB CAP	IN. x IN.	26 x 26
	WEIGHT	LBS.	58
MANUFACTURER			GREENHECK
MODEL NUMBER			FGR-20x20
DETAIL REFEREN	ICE		D/M5.3
NOTES:			
1	PROVIDE PREFABRICATED ROOF CURB WITH WELDED CAP CORNERS AND DAM	IPER TRAY.	
2	PROVIDE ALUMINUM BIRD SCREEN.		

H/M5.2

SUPPLY	AIR TERMINALS - NO HEAT					
DESIGNATION			V1-4	V1-5	V1-6	V1-7
AIR VALVE					-	
	NOMINAL DIAMETER	IN.	10	10	10	10
	MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.4	0.4	0.4	0.4
AIR FLOW RATE	S				-	
	MAXIMUM COOLING	CFM	855	1,020	1,360	1,220
	MINIMUM COOLING	CFM	260	310	410	370
	UNOCCUPIED MINIMUM	CFM	240	240	240	240
SOUND CRITERI	A - (NOTE 1)			1	-	
	INTEGRAL SILENCER		NO	NO	NO	NO
	MAX DISCHARGE SOUND RATING	NC	30	30	30	30
	MAX RADIATED SOUND RATING	NC	30	30	30	30

DESIGNATION			F1-1	F1-2	F1-6	F1-16	FTU-1.1	FTU-1.2	FTU-1.3	FTU-1.4	FTU-1.5	FTU-1.6	FTU-1.7
AIR VALVE													
	NOMINAL DIAMETER	IN.	8	12	8	6	12	12	12	12	12	6	6
	MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
AIR FLOW RATES													
	MAXIMUM COOLING	CFM	525	1,400	700	300	1,200	1,200	1,200	1,200	1,450	150	380
	MINIMUM COOLING	CFM	150	400	150	80	400	400	400	400	400	80	80
	HEATING	CFM	265	700	350	150	1,200	1,200	1,200	1,200	1,450	150	380
	UNOCCUPIED MINIMUM	CFM	150	400	150	80	400	400	400	400	400	80	80
HEATING COIL DAT	A - HYDRONIC								1	<u> </u>	1		
	HEATING COIL LOCATION		PLENUM INLET	PLENUM INLET	PLENUM INLET	PLENUM INLET	UNIT DISCHARGE						
	HEATING CAPACITY	MBTUH	8.9	23.5	10.9	5.0	15.8	15.8	15.8	15.8	25.7	3.3	6.3
	PRIMARY AIR TEMPERATURE (FROM AHU)	°F	53	53	53	53	53	53	53	53	53	53	53
	SECONDARY AIR TEMPERATURE (FROM PLENUM)	°F	68	68	68	68	68	68	68	68	68	68	68
	HEATING COIL ENTERING AIR TEMPERATURE	°F	68	68	68	68	64	64	64	64	65	63	65
	HEATING COIL LEAVING AIR TEMPERATURE	°F	138	139	118	132	75	75	75	75	80	80	80
	UNIT LEAVING AIR TEMPERATURE	°F	90	90	90	90	75	75	75	75	80	80	80
	HHW ENTERING & LEAVING TEMPERATURE	°F - °F	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110	150 – 110
	WATER FLOW	GPM	0.5	1.2	0.5	0.5	0.8	0.8	0.8	0.8	1.3	0.5	0.5
	RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1	1	1	1
	CONTROL VALVE (TYPE)		3-WAY	2-WAY	3-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	3-WAY	2-WAY
FAN DATA				I	1	1	1	1	1		1		
	FILTERS		1" THICK PLEATED MERV 7										
	FAN POSITION		PARALLEL	PARALLEL	PARALLEL	PARALLEL	SERIES						
	MOTOR TYPE		ECM										
	AIRFLOW	CFM	115	300	200	70	1,200	1,200	1,200	1,200	1,450	150	380
	EXTERNAL STATIC PRESSURE	IN. WG	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTER)	IN. WG	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
	FILTER	IN. WG	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	FAN MOTOR HORSEPOWER	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/3	1/3
	ELECTRICAL CHARACTERISTICS	V / PH	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1	277 / 1
	MCA / MOCP	AMPS - AMPS	5.2 – 15	5.2 – 15	5.2 – 15	5.2 – 15	4.5 – 15	4.5 – 15	4.5 – 15	4.5 – 15	4.5 – 15	2.8 – 15	3.3 – 15
SOUND CRITERIA	(NOTE 1)				1	1	1		1		I		
	INTEGRAL SILENCER		NO										
	MAX RADIATED SOUND RATING (PRIMARY AIR)	NC	28	28	28	27	28	28	28	28	28	27	27
	MAX DISCHARGE SOUND RATING (PRIMARY AIR)	NC	26	27	26	20	27	27	27	27	27	20	20
MANUFACTURER		I	ENVIRO-TEC										
MODEL NUMBER			VFR	VFR	VFR	VFR	CRB						
	ЭР		C/M5 1	C/M5 1	C/M5 1	C/M5 1	A/M5 1	A/M5 1	Δ/Μ5 1	A/M5 1	Δ/Μ5 1	A/M5 1	A/M5.1

PROVIDE SINGLE POINT POWER CONNECTION.

PROVIDE FULL UNIT TOGGLE DISCONNECT. 3

2

SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT

DESIGNATION			S	SAT-9.1			SAT-9.2			SAT-9.3	3
AREA SERVED			3D F	PRINTIN	G	SEMIC	CONDU	CTOR	E	NG. TEC	CH.
AIR VALVE											
	NOMINAL DIAMETER	IN.		8			10			8	
	MAX TOTAL UNIT PRESSURE DROP	IN. WG		0.25			0.40			0.25	
AIR FLOW RATES			·								
	MAXIMUM COOLING	CFM		600			840			800	
	MINIMUM COOLING	CFM		600			300			800	
	MAXIMUM HEATING	CFM		600			400			800	
	MINIMUM HEATING	CFM		600			300			800	
HEATING COIL DA	TA - HYDRONIC										
	HEATING CAPACITY	MBTUH		21.1			14.0			28.1	
	AIR ENTERING HEATING COIL	°F		53			53			53	
	AIR LEAVING HEATING COIL	°F		84.9			84.9			84.9	
	HHW ENTERING & LEAVING TEMPERATURE	°F - °F	150	-	110	150	-	110	150	-	110
	WATER FLOW	GPM		1.1			0.7			1.4	
	RUNOUT PIPE SIZE	IN.		3/4			3/4			3/4	
	MINIMUM # OF ROWS	#		1			1			1	
	CONTROL VALVE (TYPE)		2	2-WAY			3-WAY			2-WAY	,
SOUND CRITERIA	- (NOTE 1)					1			1		
	INTEGRAL SILENCER			NO			NO			NO	
	MAX DISCHARGE SOUND RATING	NC		30			30			30	
	MAX RADIATED SOUND RATING	NC		25			30			25	
NOTES: 1	BASED ON 1.0 IN. WG PRESSURE DROP ACROS	S UNIT.									



DATE:

February 7, 2025

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GENERAL NOTES

PROVIDE ALL EXPOSED DUCTWORK SPIRAL WOUND WITH PAINTABLE METAL FINISH. EXPOSED EXHAUST DUCT IN FINISHED SPACE SHALL NOT BE INSULATED. 2. BALANCE ALL DIFFUSERS / GRILLES TO VALUES INDICATED.

RENOVATION KEYNOTES

- $\langle 1 \rangle$ 10x12 RA UP TO LEVEL 2. SEE SHEET M1.2 FOR CONTINUATION.
- $\langle 2 \rangle$ 16x16 EA UP TO LEVEL 2. SEE SHEET M1.2 FOR CONTINUATION.
- $\langle 3 \rangle$ 18x18 SA UP TO LEVEL 2. SEE SHEET M1.2 FOR CONTINUATION.
- $\langle 4 \rangle$ TURN TRANSFER DUCT UP. INSTALL AS LOW AS POSSIBLE TO ALLOW ADEQUATE ROOM BETWEEN DUCT OPENING AND FIRE RATED GYPSUM LID.
- (5) SUPPLY AIR REGISTER; PRICE MODEL SDGE OR APPROVED EQUAL PER SPECIFICATION. LOCK BLADES IN 0 DEGREE DEFLECTION. ARCHITECT TO APPROVE FINISH.
- $\langle 6 \rangle$ PROVIDE PRICE MODEL JET SLOT (JS) LINEAR SLOT DIFFUSER. PROVIDE BLANK OFF FOR ENTIRE LENGTH. MOUNT DIFFUSER FLUSH WITH PERFORATED METAL CEILING AND SUPPORT APPROPRIATELY; COORDINATE WITH ARCHITECTURAL PLAN FOR MOUNTING SPECIFICS.
- $\langle 7 \rangle$ RESERVED
- (8) PROVIDE PRICE MODEL JET SLOT (JS) LINEAR SLOT DIFFUSER WITH FREE SUSPENDED FRAME MOUNTED IN BETWEEN ALUMINUM BEAM PER DETAIL D/M5.1. PROVIDE CABLE OPERATOR FOR BALANCING.
- (9) PROVIDE PRICE MODEL JET SLOT (JS) LINEAR SLOT DIFFUSER. PROVIDE CABLE OPERATOR FOR BALANCING. MOUNT DIFFUSER FLUSH WITH PERFORATED METAL CEILING AND SUPPORT APPROPRIATELY; COORDINATE WITH ARCHITECTURAL PLAN FOR MOUNTING SPECIFICS.







DATE:

February 7, 2025









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DRAWING PHASE: 100% Construction Documents DRAWING TITLE: Level 2 Floor Plan SHEET NO.: M1.2 DATE: February 7, 2025

C Section 1/4" = 1'-0"

F Section 1/4" = 1'-0"

H Section 1/4" = 1'-0"

DEMOLISH PUMP AND ASSOCIATED DRIVE, INTERTIA BASE, PIPING AND PIPE ACCESSORIES TO LIMITS INDICATED. NEW PUMP TO BE — — — PROVIDED AS INDICATED ON RENOVATION PLANS. SEE ELECTRICAL FOR POWER REQUIREMENTS.—

<u>VFD-TP-1</u>

E Section 1/4" = 1'-0"

B Section 1/4" = 1'-0"

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