RANGE HOOD

SYMBOL	RH-1		
MANUFACTURER	CAPTIVEAIRE		
MODEL	4224EX-2-B		
SERVICE	DELI AREA		
PHYSICAL SIZE	111"L X 42"D		
INTEGRAL FIRE SUPPRESSION	NO		
MOUNTING HEIGHT	6'-8" AFF		
ТҮРЕ	TYPE 1		
EXHAUST F	- AN		
MARK	EF-1		
MANUFACTURER AND MODEL #	Captiveaire — Du85hfa		
EXHAUST CFM/ESP	1850 / 1.0"		
ELECTRICAL (V/ø/HZ)	115 / 1 / 60		
FAN HP/RPM	1 HP / 1359		
FLA	10.2		
WEATHER PROOF DISCONNECT	YES		
GREASE DRAIN	YES		

<u>REMARKS:</u>

- RANGE HOOD IS OWNER FURNISHED, OWNER INSTALLED.
- 2. PROVIDE THE HOOD IN ONE SECTION. ATTACH UNIT TO WALL WITH MANUFACTURER'S WALL BRACKET. COORDINATE MOUNTING LOCATION WITH THE ARCHITECT.
- 3. ALL COMPONENTS OF THE RANGE HOOD SHALL BE UL LISTED. 4. UNIT TO BE PROVIDED WITH ELECTRIC RELAY SWITCH BOX FOR ELECTRIC RANGE. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR.
- 5. PROVIDE EXHAUST FAN WITH GREASE BOX, GREASE CUP, AND
- MANUFACTURER'S ROOF CURB. 6. PROVIDE HOOD WITH LED LIGHT FIXTURES.
- INFORMATION IS PROVIDED FOR COORDINATION PURPOSES. 8. FAN IS TO BE UL LISTED FOR KITCHEN USE AND GREASE LADEN VAPORS.
- 9. PROVIDE HOOD WITH 24" FIELD WRAPPER.
- 10. FAN AND LIGHT CONTROLS ARE TO BE MOUNTED ON FRONT OF HOOD. EACH SWITCH SHALL HAVE AN INDICATOR LIGHT AND
- IDENTIFICATION PLACARD. COORDINATE EXACT LOCATION WITH OWNER. 11. THE FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL
- BE UL LISTED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. 12. THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION.
- ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS. 13. THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME
- KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE. 14. THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A
- FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL
- BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY. 15. BALANCING CONTRACTOR TO BALANCE EXHAUST FAN TO WITHIN 5% OF LISTED AIRFLOW.

GENERAL INFORMATION	
SYMBOL	MAU-1
MANUFACTURER	CAPTIVEAIRE
MODEL	A1-D.250-G10-MPU
CFM / ESP	1665 / 0.45"
HP / RPM	1 HP / 1073
V/ø/HZ	115 / 1 / 60
FLA	9.0
INPUT (GAS)	109.6 MBH
TEMP. RISE	59° F
WEIGHT	1250 LBS
CONDENSING UNIT INFORMATION	
V/ø/HZ	208 / 1 / 60
MCA / MOP	18.1 / 30
TOTAL / SENSIBLE CAPACITY (MBH)	31.4 / 20.9
ENTERING AIR DB / WB	88.0° F / 73.0° F
LEAVING AIR DB / WB	75.7°F / 67.7°F

<u>Remarks</u>:

- ALL COMPONENTS OF THE MAKEUP AIR UNIT SHALL BE UL LISTED. PROVIDE UNIT WITH COOLING INTERLOCK RELAY.
- PROVIDE WITH LOW-FIRE START. THIS UNIT HAS TWO POWER CONNECTIONS.
- PROVIDE WITH DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN 5.
- 6. PROVIDE MAKEUP AIR UNIT WITH FACTORY MOUNTED AND WIRED CONTROL PANEL. PANEL SHALL CONTAIN (1) POWER DISCONNECT SWITCH AND (1) STARTER FOR SUPPLY FAN AND (1) STARTER FOR THE EXHAUST FAN. PANEL SHALL BE PRE-WIRED IN A NEMA OUTDOOR ENCLOSURE WITH STAINLESS
- STEEL HINGED AND LOCKABLE COVER. PROVIDE A FULL PERIMETER ROOF CURB FOR MAKE-UP AIR UNIT. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER IN INTAKE OF UNIT INTERLOCKED TO OPEN WITH SUPPLY FAN. DAMPER SHALL HAVE SEALS.
- PROVIDE A REMOTE RANGEHOOD CONTROL PANEL WHERE INDICATED ON THE NEW WORK DRAWINGS. PANEL SHALL HAVE TWO (2) SWITCHES; (1) ACTIVATE SUPPLY AND EXHAUST FAN, (2) ACTIVATE HOOD LIGHTS, EACH SWITCH SHALL
- HAVE AN INDICATOR LIGHT AND IDENTIFICATION PLACARD. 10. PROVIDE WITH MODULATING GAS VALVE. 11. BALANCING CONTRACTOR TO BALANCE MAU TO WITHIN 5% OF LISTED AIRFLOW.

REGISTERS, GRILLES, AND DIFFUSERS								
		PHYSICAL SIZE						
SYMBOL	MANUF. & MODEL	MATERIAL & TYPE	CFM RANGE	OVERALL FACE SIZE	NECK SIZE	INLET DUCT SIZE	REMARKS	
S-1	titus Tmra	STEEL CONSTRUCTION 4 CONE 360° UNIFORM PATTERN	0-130	20"ø	6"ø	6"ø	3	
S-2	TITUS TMRA	STEEL CONSTRUCTION 4 CONE 360° UNIFORM PATTERN	131–250	22.5 " ø	8 " ø	8 " ø	3	
S-3	TITUS TMRA	STEEL CONSTRUCTION 4 CONE 360° UNIFORM PATTERN	251-375	22.5 [°] ø	10"ø	10"ø	3	
S-4	TITUS TMSA	STEEL CONSTRUCTION 3 CONE 360° PATTERN	0-100	12"x12"	6 " ø	6 " ø	1, 2, 3, 5, 7	
S-5	TITUS 300RS	EXTRUDED ALUMINUM DOUBLE DEFLECTION 3/4" SPACING	0-450	14"x12"	12 " x10"	12 " x10"	3, 4	
R-1	TITUS 350ZRL	STEEL LOUVERED GRILLE 3/4" BLADE SPACING 0" DEFLECTION	425	14"x12"	12x10"	12"x10"	3, 4	
R-2	TITUS 23RL	STEEL RETURN GRILLE 45° DEFLECTION 3/4" BLADE SPACING	3000	48"x48"	46"x46"	46"x46"	3, 5, 6	
R-3	TITUS 355RL	STEEL LOUVERED GRILLE 1/2" BLADE SPACING 35" DEFLECTION	0-100	12"x10"	10"x8"	10"x8"	3, 4	
T-1	HART & COOLEY TG	ALUMINUM CONSTRUCTION "Y" TYPE BLADE VISION PROOF	0-100	12"x12"	10"x10"	10"x10"	3, 4	

<u>REMARKS</u>

INLET TRANSITION BOX, ROUND TO RECTANGULAR.

PROVIDE WITH MOLDED INSULATION BLANKET ON DIFFUSER. PROVIDE WHITE IN COLOR.

- GRILLE SHALL BE SIDEWALL/DUCT MOUNTED.
- CEILING SURFACE MOUNTED.
- PROVIDE WITH PLENUM BOX. PAINT INTERIOR OF PLENUM BOX WITH FLAT BLACK PAINT. PROVIDE DESIGNATED TYPE "B" DIFFUSERS WITH 3-WAY THROW.

MAKE-IP AR INIT

TYPE OF SYSTEM DX COOLING / GAS HEAT MANF. & MODEL TRANE YHC120 CONFIGURATION HORIZONTAL SINGLE POINT CONNECTION YES VOLTAGE / PHASE 208 / 3ø MCA / MOP 46.1 / 60.0 REMARKS (SEE NOTES BELOW) ALL SUPPLY FAN DESIGN CFM/RPM 4000 / 1552 MIN. OUTSIDE AIR (CFM) 575 HP / BHP 3.18 / 3.18 VOLTS / PHASE / HZ 208 / 3 / 60 1.0" ESP 1.46" TSP DX COIL NET TOTAL COOLING CAP. (MBH) 99.4 83.1 NET SENSIBLE COOLING CAP. (MBH) TOTAL CFM 4000 FACE VELOCITY (FPM) 240 NUMBER OF COMPRESSORS EAT - SUMMER (DB/WB) 76.0 F / 63.0 F LAT - SUMMER (DB/WB) 57.2 F / 54.3 F eer @ Ahri 12.4 HOT GAS REHEAT CAPACITY

PACKAGED COOLING UNIT

PCU-1

GENERAL

CAPACITY	89.1
LAT (DB)	75.2 F
COIL MOISTURE REMOVAL (LB/HR)	17.9
GAS HEATI	NG
FUEL	NATURAL GAS
INPUT / OUTPUT HEATING CAP. (MBH)	150.0 / 120.0
EAT - WINTER (DB/WB)	70.0 F
LAT – WINTER (DB/WB)	98.1 F
DISPOSABLE PRIMA	RY FILTER
TYPE	THROWAWAY
EFFICIENCY	MERV 7 PLEATED
SIZE (W" x H" x D")	20x25x2

<u>REMARKS:</u>

SYMBOL

AREA SERVED

PROVIDE FLEXIBLE CONNECTIONS FOR ALL DUCTWORK AND PIPING CONNECTIONS TO UNIT. SLOPE CONDENSATE DRAIN TO OUTLET.

- PROVIDE WITH HIGH EFFICIENCY FAN MOTORS.
- PROVIDE ALL UNITS WITH A SINGLE POINT CONNECTION, AND FACTORY INSTALLED STARTERS AND NON-FUSIBLE DISCONNECTS. PROVIDE WITH HONEYWELL MODEL TH8321R1001 REDLINK PROGRAMMABLE THERMOSTAT, HONEYWELL MODEL C7189R1004 REDLINK REMOTE TEMPERATURE SENSORS, AND
- HONEYWELL MODEL THM6000R1002 REDLINK INTERNET GATEWAY.
- PROVIDE UNIT WITH HAIL GUARD. PROVIDE WITH A 120V SERVICE OUTLET.
- PROVIDE WITH 14" TALL FACTORY MOUNTED SHEET METAL CURB. CURB SHALL NOT
- EXTEND BEYOND UNIT.
- MOTORIZED OUTSIDE AIR DAMPER. (BALANCE MINIMUM OA TO 575 CFM.) PROVIDE UNIT WITH ENTHALPY ECONOMIZER AND ECONOMIZER HOOD.
- PROVIDE UNIT WITH HINGED ACCESS DOORS FOR FILTER RACK.
- BALANCE REPORT SHALL BE TURNED OVER TO GENERAL CONTRACTOR. 12
- UNIT MANUFACTURER SHALL BE TRANE, NO EXCEPTIONS. 13. PROVIDE REMOTE MOUNTED BARAMETRIC RELIEF HOOD. HOOD SHALL BE MOUNTED ON 14.
- RETURN DUCT. REFER TO MECHANICAL DRAWINGS FOR LOCATION. 15. UNIT SHALL HAVE RETURN AIR DUCT SMOKE DETECTOR. INSTALL UPSTREAM OF
- BARAMETRIC RELIEF HOOD. 16. PROVIDE UNIT WITH HOT GAS REHEAT FOR DEHUMIDIFICATION MODE AND DUCT-MOUNTED
- HUMIDISTAT SET AT 50% RELATIVE HUMIDITY.
- 17. PROVIDE UNIT WITH MULTI-SPEED SUPPLY FAN STAGED WITH COMPRESSORS.

1aterial Requirements to Achieve Installed R-Value									
No Thic	minal kness	Ins Thie	talled ckness	Stretch Out Dimensions, in. (mm)					
in.	(mm)	in.	(mm)	Round and	Oval Ducts	Square	Ducts	Rectangu	lar Ducts
11/2	(38)	11/8	(29)	P+9 ¹ / ₂	(240)	P+8	(205)	P+7	(180)
2	(51)	11/2	(38)	P+12	(305)	P+10	(255)	P+8	(205)
21⁄5	(56)	5/8	(41)	P+13	(330)	P+II	(280)	P+81/2	(215)
3	(76)	21⁄4	(57)	P+17	(430)	P+ 4 ¹ / ₂	(370)	P+111/2	(290)
4	(102)	3	(76)	P+22	(560)	P+19	(483)	P+16	(406)

P = measured duct perimeter



EXHAUST FAN

SYMBOL	EF-2	EF-3
MANUFACTURER	СООК	соок
MODEL	GC-182	GC-162
CFM	225	150
S.P.	0.25"	0.25"
VOLTAGE	115/1/60	115/1/60
WATTS	169	96

REMARKS:

UNIT TO BE SUPPLIED WITH A BACKDRAFT DAMPER AND ALUMINUM EXTERIOR WALL CAP WITH

BIRDSCREEN. UNIT TO BE PROVIDED WITH SPEED CONTROLLER.

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

- A. EACH CONTRACTOR, SUPPLIER AND, OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- B. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS' DISCRETION.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- D. ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- E. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- F. DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- G. THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- H. ANY VIBRATING, OSCILLATING, OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, NOTIFY THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.

MECHANICAL LEGEND					
AFF	ABOVE FINISHED FLOOR				
TYP	TYPICAL				
NTS	NOT TO SCALE				
NIC	NOT IN CONTRACT				
NO	NORMALLY OPEN				
NC	NORMALLY CLOSED				
	TAGGED NOTE				
\bigcirc	INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION (L=LOUVER, T=TRANSFER GRILLE, S=SUPPLY DIFFSER OR REGISTER, R=RETURN GRILLE OR REGISTER, E= EXHAUST GRILLE OR REGISTER)				
\bigcirc	MECHANICAL EQUIPMENT DESIGNATOR				
20X12 SA 🔀	SUPPLY AIR DUCT — INSIDE DIMENSION (TURNED UP/DOWN)				
20X12 RA	RETURN AIR DUCT – INSIDE DIMENSION (TURNED UP/DOWN)				
20X12 EA	EXHAUST/RELIEF AIR DUCT – INSIDE DIMENSION (TURNED UP/DOWN)				
8111118	FLEXIBLE DUCT				
[_] AD	ACCESS DOOR IN BOTTOM OF DUCT				
AD	ACCESS DOOR IN SIDE OF DUCT				
	OPPOSED BLADE DAMPER (MOTORIZED)				
	VOLUME DAMPER (MANUAL)				
	TURNING VANES				
(T_s)	TEMPERATURE SENSOR				
T	REMOTE TEMPERATURE SETPOINT CONTROLLER				
DS	DUCT SMOKE DETECTOR				

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- J. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT, OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE. IN WRITING.
- K. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- L. THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING, AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.
- M. VALVES, BALANCING DAMPERS, OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT.
- N. THE GENERAL CONTRACTOR SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- O. REFER TO DETAIL SHEETS FOR ADDITIONAL PIPING/DUCTWORK INSTALLATION REQUIREMENTS.

P. THE EQUIPMENT ROUGH-IN ITEMS AND THEIR DIMENSIONED LOCATIONS FOR ALL CONNECTIONS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE AND SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER, OWNER AND/OR THE EQUIPMENT ROUGH-IN DRAWINGS. IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY MAKE SUBSTITUTIONS OR THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED, PRIOR TO CONSTRUCTION OF ANY DEVIATIONS FROM WHAT IS SHOWN OR IMPLIED ON THESE DRAWINGS. FAILURE OF THE APPROPRIATE CONTRACTOR TO VERIFY ROUGH-INS OR THEIR LOCATIONS SHALL PLACE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION AND/OR ADDITIONAL ROUGH-INS DIRECTLY UPON THE CONTRACTOR.







MECHANICAL LEGEND AND SCHEDULES

M1.01



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

				٦	PROJECT NO):
general notes:					22-4311 DRAWN BY:	
A. ALL OPEN-CEILING DIFFUSER. DIFFUSE SHOWN ON DRAWI BETWEEN JOISTS	GAREAS SHALL UTILIZE A RI ER SHALL BE MOUNTED AT A NG. TYPICAL PLACEMENT OF	GID DUCT CONNECTION (WITH A TYPICAL ELEVATION OF 11'- DIFFUSER IN OPEN-CEILING	SUPPORTS) TO -0" UNLESS OTHERWISE AREAS ARE CENTERED		WTD DATE: 05/02/2022	2
B. ALL RECTANGULAR	, ROUND, AND FLEXIBLE DU	CTS SHALL BE SIZED AS SHO	OWN ON THESE			<u> </u>
C. INSTALL TURNING	VANES IN ALL 90 DEGREE S	Supply and return duct e	LBOWS AND AT ALL			
DUCT TEES. D. CONDENSATE DRAI	n lines shall be sloped	AT A MINIMUM 1/8" PER LIN	IEAR FOOT OF RUN.			
all drain exits E. contractor shal	FROM PCU-1 SHALL INCLUD L HAVE ALL THERMOSTATS/1	ie a trap and clean—out i Temperature sensors calie	PLUG. BRATED TO		STE OF	KENTUN
MANUFACTURER'S	SPECIFICATIONS PRIOR TO T	JRNING SYSTEM OVER TO OW	NER. /IDF_AIR-BALANCE	/		
REPORT TO GENER	RAL CONTRACTOR.					NSE
G. MANUFACTURER'S EQUIPMENT. ALL P	RECOMMENDED CLEARANCES IPING VALVES AND MANUAL	VOLUME DAMPERS SHALL BE	ALL MECHANICAL EASILY ACCESSIBLE.			
H. FLEXIBLE DUCTWOF FOR MORE INFORM	RK IS ALLOWED FOR USE OF IATION.	N CONCEALED DUCIWORK. RE	FER 10 DETAIL SHEET			
I. HATCHED PORTION FIBERGLASS DUCT WITH A MINIMUM F BARRIER. REFER T	OF DUCTWORK SHALL BE V WRAP, "FACED DUCT WRAP R-VALUE OF 8, FACTORY LA O INSULATION CHART ON SH	VRAPPED WITH OWENS/CORNI – TYPE 75", 3" THICK FIBEI MINATED TO A REINFORCED F HEET M1.01 FOR INSTALLATIOI	NG ALL SERVICE RGLASS DUCT WRAP, 'OIL KRAFT VAPOR N REQUIREMENTS.		4	.0059 com
J. ANY ROUND DUCT CONSTRUCTION FA ANY DUCTWORK E SHALL BE SUPPOR EXPOSED METAL D	Work Exposed to view SH Bricated From Paint Grip Xposed to view Shall Be Rted as required with Air Duct Shall Be prepped An	ALL HAVE SPIRAL OUTER SHI GALVANIZED STEEL MEETING CONSTRUCTED OF G90 GALV. CRAFT CABLES WITH SELF-TI ID PAINTED BY OWNER.	Ell, Lock—Seam Astm—527 standards. Anized steel and Ghtening locks.		F	Kentucky 4 www.cmta.
K. DUCTWORK, PLENU OF THE MINIMUM OR BELOW TABLE. THE BELOW TABLE	ims and other appurtenai Weights or gauges as re When gauge thickness d Shall serve as a minimu	NCES SHALL BE CONSTRUCTE QUIRED BY THE LATEST SMAC IFFERS, THE HEAVIER GAUGE IM.	D OF THE MATERIALS CNA 2" W.G. STANDARD SHALL BE SELECTED.		$\frac{2}{2}$	et, Prospect, 2 326.2691
ROUND DIAMETER	DUCT GAUGE	RECTANGULAR WIDTH	DUCT GAUGE	1	U	g Stree 5 f 50
3-12 INCHES 13-18 INCHES 19-28 INCHES	26 GA. 24 GA. 22 GA.	3-12 INCHES 13-30 INCHES 31-54 INCHES	26 GA. 24 GA. 22 GA.			● Aeetinç 6.3085
MECHANICAL TAG NOTES	S:		$\langle x \rangle$			• • • • • • • • • • • • • • • • • • •
1. ORIENT RETURN G BATHROOMS). PA	RILLE SO THAT OPENING IS INT INTERIOR OF RETURN PL	DIRECTED TOWARD HALLWAY ENUM WITH FLAT BLACK PAIN	ENTRY (AWAY FROM IT.			
2. NON-INSULATED P AND CHANGE OF	VC CONDENSATE LINE. PROV DIRECTION.	VIDE SPLIT RING CLAMP EVER	Y 4'-0" ON CENTER			
3. PROVIDE HIGH EFF TO DETAIL ON SHI	FICIENCY TAKEOFFS AND VOL EET M3.01 FOR ADDITIONAL	ume dampers in all brand Information. Typical of al	CH DUCT WORK. REFER L.			
4. INSTALL RETURN DUCT WILL BE AT	DUCTWORK AS HIGH AS POS A MINIMUM OF 9'-0".	SIBLE, HOLDING TIGHT TO STI	RUCTURE. BOTTOM OF			
5. PROVIDE FLEX CO	NNECTION AT UNIT FOR SUP	PLY/RETURN DUCTWORK.				
6. CONTRACTOR TO II <u>16"Wx32"H</u> ACCES UNIT AS POSSIBLE	NSTALL A 20 GAUGE RAIN S S DOOR FOR DUCT MOUNTEI . REFER TO SECTION VIEW (HIELD OVER ALL EXTERIOR D D SMOKE DETECTOR. POSITIO DN SHEET M3.01 FOR ADDITIC	UCTWORK. PROVIDE WITH N DOOR AS CLOSE TO DNAL INFORMATION.			3 ES
7. PROVIDE UNIT WITH CONCRETE PAD WI AS NECESSARY NE ALLOW RODENTS A	H 14" TALL, FULL-LENGTH E ILL BE SLOPED 1/4" PER F EAR THE CONCRETE PAD IN AND PESTS FROM USING SHI	EQUIPMENT CURB. DO NOT E OOT. CURB AND DUCT SHROU ORDER TO FILL ANY VOIDS (ROUD AS SHELTER.	xtend curb past unit. Jd shall be modified Dr gaps that would			OCIAT 336-511
8. CONTRACTOR TO II OPEN RECEPTACLE	NSTALL A 2" OPEN RECEPTA COORDINATE INSTALLATION	CLE IN STORM LINE. SPILL F WITH BUILDING CONTRACTOR	PCU-1 CONDENSATE TO			ASS(02) 6
9. SUPPLY DUCT MAI BRANCH DUCTWOR	N SHALL BE INSTALLED TO K SHALL BE COORDINATED V	Follow Slope of Roof Wit With Joist Openings.	HIN JOIST SPACE. ALL			& ∑ (50 ►
10. CONCENTRIC WATE INSTALLATION AND OFFSET IS TO BE ABOVE OUTSIDE C	R HEATER FLUE IS TO BE R TERMINATION SHALL BE PER AS HIGH AS POSSIBLE ABO OOLERS MAINTAIN 10'-0" C	ROUTED FROM HEATER TO WA R MANUFACTURER'S RECOMME VE BATHROOM CEILING WITH	LL AS SHOWN. INDATIONS. HORIZONTAL FINAL TERMINATION			CTS &
11. MOUNT FIRE SUPP	RESSION SYSTEM FOR RH-1	AS HIGH AS POSSIBLE. SEE	E SHEET M101 FOR			IITE GHW/ JCKY
12. SPACE IN THIS AR	EA IS LIMITED. COORDINATE	DUCT ROUTING WITH CEILING	AND STRUCTURAL			RCF N HI (ENTL
13. INSTALL ECCENTRIC	C TRANSITION DUCT FITTING.	SLOPE OF TRANSITION IS NO	DT TO EXCEED 1:4.			ESTO ESTO
14. CEILING FANS, STF (TYPICAL)	RUCTURAL JOISTS, AND LIGH	is are shown for coordin	IATION PURPOSES ONLY.			YES 7 PR SVILI
15. TRANSFER AIR GRI	ILLES CENTERED ABOVE DOO	R. REFER TO DETAIL SHEET.				КЕ 471 LOUI
16. INSTALL PCU-1 TH EDGE OF DRYWALL THE HVAC UNIT. D MANAGER'S OFFICE	HERMOSTAT IN LOCATION SHO INSTALL AT 60" AFF. THEF DO SO BY CONNECTING U1 / E TO TERMINAL 7 AND 12 O	DWN CENTERED BETWEEN CLO RMOSTAT NEEDS TO CONTROL AND U1 ON THE THERMOSTAT N THE LTB BOARD LOCATED	DSET DOOR JAMB AND HOT GAS REHEAT ON IN THE GENERAL ON THE HVAC UNIT.			
17. EXHAUST CAP AT	ELEVATION OF 10'-8". REFE	R TO DETAIL SHEET FOR MO	RE INFORMATION.			1
18. INSTALL PCU-1 TE PRIOR TO INSTALL 19. MAINTAIN A 10'-0	MPERATURE SENSOR IN LOCATION. MINIMUM DISTANCE FROM	EXHAUST FAN OUTLET TO PC	U-1/MAU-1'S INTAKE.)
ANY KOUF EQUIPM EDGE OF ROOF.	ILINI MUSI MAINIAIN A 10'-	ODENING TO COM	LEN LQUIPMENT AND			DRIV 4216
20. TRANSITION GREAS FIT ROOF CURB P GREASE DUCT IS DIRECTION. 3M FIR CLASSIFIED FOR 0	E DUCT FROM RH—1 HOOD RIOR TO ROOF PENETRATION TO BE #16 GAUGE WELDED REMASTER GREASE DUCT WR/ " CLEARANCE TO COMBUSTIE	OPENING TO 14°Ø RISER. IN I. ROOF CUTOUT SHALL BE 2 DUCT. PROVIDE CLEANOUTS / AP OR ALTERNATE FULLY ENG BLES (UL R14229) AND ENGI	ANSITION DUCTWORK TO 1"X21" FOR CURB. AT EACH CHANGE IN CAPSULATED AND U.L. NEER APPROVED.		AR STORE	DMMERCE SVILLE, K)
21. 16X16 OA DUCT U PENETRATION. ROO	JP TO MAU-1. TRANSITION D F CUTOUT FOR CURB SHALL	DUCTWORK TO FIT ROOF CUR _ BE 18"X18".	B BEFORE ROOF		VEST ME	30 CC
22. FIELD MOUNT FACT	TORY MANUFACTURED, BARAN	IETRIC RELIEF HOOD TO RETI	JRN DUCTWORK.			18 SC
23. INSTALL SMOKE DE	ETECTOR UPSTREAM OF BAR	AMETRIC RELIEF HOOD.			N N N	/
25. RANGE HOOD IS C	WNER FURNISHED, OWNER I	NSTALLED.				l
26. 36"X5" MAKEUP A SURFACE. ALL ELE	IR DUCT ROUTED DOWN. TEF	RMINATION POINT SHALL BE E NNECTIONS MUST BE LOCATEI	Below Cooking D Below The Back		Z	•
RETURN AIR PLENI 27. MAINTAIN EQUIPME	um. NT MANUFACTURER'S RECOM	MENDED SERVICE AREA.			FLOOR PLAN MECHANICAL	 _

28. TRANSFER GRILLE IS TO BE MOUNTED ABOVE COOLER ROOF, FACING OUT. PROVIDE GRILLE WITH 1/2" MESH SCREEN.

M2.01







GEN	IERAL NOTES:						
Α.	All open-ceiling Diffuser. Diffuse Shown on drawin Between Joists U	AREAS SHALL UTILIZE A RI R SHALL BE MOUNTED AT A IG. TYPICAL PLACEMENT OF INLESS SPECIFIC DIMENSION	GID DUCT CONNECTION (WITH A TYPICAL ELEVATION OF 11' DIFFUSER IN OPEN—CEILING IS SHOWN ON DRAWING.	1 SUPPORTS) TO —0" UNLESS OTHERWISE AREAS ARE CENTERED			
В.	ALL RECTANGULAR, DRAWINGS. MINIMUI	ROUND, AND FLEXIBLE DUC I INTERNAL DIMENSIONS ARE	CTS SHALL BE SIZED AS SHO E GIVEN.	OWN ON THESE			
C.	INSTALL TURNING \ DUCT TEES.	VANES IN ALL 90 DEGREE S	upply and return duct e	LBOWS AND AT ALL			
D.	Condensate drain All drain exits f	N LINES SHALL BE SLOPED TROM PCU-1 SHALL INCLUD	at a minimum 1/8" per li e a trap and clean—out	NEAR FOOT OF RUN. PLUG.			
E.	CONTRACTOR SHAL	L HAVE ALL THERMOSTATS/T SPECIFICATIONS PRIOR TO TU	EMPERATURE SENSORS CALII JRNING SYSTEM OVER TO OV	BRATED TO WNER.			
F.	BALANCE DIFFUSER REPORT TO GENER	s and grilles to airflow Al contractor.	'S INDICATED ON PLAN. PRO	VIDE AIR-BALANCE			
G.	MANUFACTURER'S F EQUIPMENT. ALL P	RECOMMENDED CLEARANCES IPING VALVES AND MANUAL V	Shall be maintained for Volume dampers shall be	ALL MECHANICAL EASILY ACCESSIBLE.			
Н.	FLEXIBLE DUCTWOR	K IS ALLOWED FOR USE ON ATION.	I CONCEALED DUCTWORK. RE	efer to detail sheet			
I.	HATCHED PORTION FIBERGLASS DUCT WITH A MINIMUM R BARRIER. REFER TO	OF DUCTWORK SHALL BE W WRAP, "FACED DUCT WRAP 2-VALUE OF 8, FACTORY LAN D INSULATION CHART ON SH	/RAPPED WITH OWENS/CORNI – TYPE 75", 3" THICK FIBE MINATED TO A REINFORCED F IEET M1.01 FOR INSTALLATIO	ING ALL SERVICE RGLASS DUCT WRAP, FOIL KRAFT VAPOR N REQUIREMENTS.			
J.	J. ANY ROUND DUCTWORK EXPOSED TO VIEW SHALL HAVE SPIRAL OUTER SHELL, LOCK-SEAM CONSTRUCTION FABRICATED FROM PAINT GRIP GALVANIZED STEEL MEETING ASTM-527 STANDARDS. ANY DUCTWORK EXPOSED TO VIEW SHALL BE CONSTRUCTED OF G90 GALVANIZED STEEL AND SHALL BE SUPPORTED AS REQUIRED WITH AIRCRAFT CABLES WITH SELF-TIGHTENING LOCKS. EXPOSED METAL DUCT SHALL BE PREPPED AND PAINTED BY OWNER.						
К.	DUCTWORK, PLENU OF THE MINIMUM V OR BELOW TABLE. THE BELOW TABLE	MS AND OTHER APPURTENAN WEIGHTS OR GAUGES AS REG WHEN GAUGE THICKNESS DI SHALL SERVE AS A MINIMU	NCES SHALL BE CONSTRUCTE QUIRED BY THE LATEST SMA(IFFERS, THE HEAVIER GAUGE M.	ED OF THE MATERIALS CNA 2" W.G. STANDARD SHALL BE SELECTED.			
R)und diameter	DUCT GAUGE	RECTANGULAR WIDTH	DUCT GAUGE			
1	3-12 INCHES 3-18 INCHES 9-28 INCHES	26 GA. 24 GA. 22 GA.	3-12 INCHES 13-30 INCHES 31-54 INCHES	26 GA. 24 GA. 22 GA.			
MEC	CHANICAL TAG NOTES	: :		$\langle x \rangle$			
1.	PROVIDE HIGH EFF TO DETAIL ON THIS	ICIENCY TAKEOFFS AND VOLU S SHEET FOR ADDITIONAL IN	JME DAMPERS IN ALL BRANG FORMATION. TYPICAL OF ALL.	CH DUCT WORK. REFER			
2.	2. INSTALL RETURN DUCTWORK AS HIGH AS POSSIBLE, HOLDING TIGHT TO STRUCTURE. BOTTOM OF DUCT WILL BE AT A MINIMUM OF 9'-0".						
3.	3. PROVIDE FLEX CONNECTION AT UNIT FOR SUPPLY/RETURN DUCTWORK.						
4.	4. FIELD MOUNT FACTORY-MANUFACTURED, BAROMETRIC RELIEF HOOD TO RETURN DUCTWORK.						
5. CONTRACTOR TO INSTALL A 20 GAUGE RAIN SHIELD OVER ALL EXTERIOR DUCTWORK. PROVIDE WITH <u>16"Wx32"H</u> ACCESS DOOR FOR DUCT MOUNTED SMOKE DETECTOR. POSITION DOOR AS CLOSE TO UNIT AS POSSIBLE. PROVIDE <u>34"X10"</u> OPENING AT BOTTOM OF RAIN SHIELD (ON BOTH SIDES) TO ALLOW FOR RELIEF AIR WHEN UNIT IS IN ECONOMIZER MODE. INSTALL EXPANDED METAL GRATE OVER OPENINGS.							
6.	INSTALL SMOKE DE	TECTOR UPSTREAM OF BARA	METRIC RELIEF HOOD.				
7.	PROVIDE UNIT WITH UNIT. CONCRETE P MODIFIED AS NECE WOULD ALLOW ROI	I 14" TALL, FULL—LENGTH E AD WILL BE SLOPED 1/4" F SSARY NEAR THE CONCRETE DENTS AND PESTS FROM US	QUIPMENT CURB. DO NOT E PER FOOT. CURB AND DUCT PAD IN ORDER TO FILL AN ING SHROUD AS SHELTER.	XTEND CURB PAST SHROUD SHALL BE Y VOIDS OR GAPS THAT			
8.	SUPPLY DUCT MAIN SHALL BE INSTALLED TO FOLLOW SLOPE OF ROOF WITHIN JOIST SPACE. ALL BRANCH DUCTWORK SHALL BE COORDINATED WITH JOIST OPFNINGS.						

PROJECT NO: 22-4311 DRAWN BY:

05/02/2022

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ASSOCIAT

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MECHANICAL SECTION VIEWS AND DETAILS

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DATE:

9. FASTEN RAIN SHEILD TO CONCRETE SLAB.

10. EXHAUST CAP AT ELEVATION OF 10'-8". REFER TO DETAIL THIS SHEET FOR MORE INFORMATION.

11. MAINTAIN A 10'-0" MINIMUM DISTANCE FROM EXHAUST FAN OUTLET TO MECHANICAL EQUIPMENT'S INTAKE.