

SPECIFICATIONS:

A) AIR CONDITIONING SPECIFICATION

- DRAWINGS ARE DIAGNOSTIC AND SHALL NOT BE SCALED FOR THE EXACT LOCATION OF EQUIPMENT, PIPING, DUCTWORK, OR OTHER ITEMS. COMPLETE AND WORKING SETS, EVERY DETAIL OF CONSTRUCTION OR INSTALLATION, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND WORKING SET.
- ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS, WORKMAN-LIKE MANNER. THE COMPLETED SYSTEM SHALL BE OPERATIVE AND ACCEPTANCE BY ENGINEER/ARCHITECT SHALL BE A PORTION OF THE SUB-CONTRACT.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTORS, AND TESTS.
- THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THE PROJECT AND SHALL VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION.
- ALL INSTALLATION SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES TO AVOID IMPACTS.
- PROVIDED BY THE CONTRACTOR INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, AND ORDINANCES.
- ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITERS LABEL WHERE APPLICABLE.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY THAT SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY THE OWNER OR OWNERS REPRESENTATIVE.
- ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED FOLLOWING THE ISSUE OF ARCHITECTURAL DRAWINGS SHALL BE PAID FOR BY THE CONTRACTOR.

B) INSTALLATION

- THE MECHANICAL CONTRACTOR SHALL PROVIDE HANG EQUIPMENT LISTED IN THE HANG EQUIPMENT SCHEDULE AND SHALL MEET THE CAPACITIES NOTED. THE MECHANICAL CONTRACTOR SHALL SUBMIT MANUFACTURER SHIP DRAWINGS, CUT SHEETS AND PERFORMANCE DATA ON ALL EQUIPMENT AND OBTAIN THE ENGINEER'S APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MOTOR STARTERS, RELAYS, CONTRACTORS, SMOKE DUCT DETECTORS, ETC.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL SWITCHES AND INSTALL ALL CONTROL WIRING.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED TO S.M.A.C.N.A. STANDARDS. ALL DUCTWORK SIZES ARE INSIDE DIMENSIONS.
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- SUPPLY DUCT ELBOWS SHALL BE PROVIDED WITH TURNING VANES.
- BRANCH TAKEOFFS SHALL BE PROVIDED WITH ADJUSTABLE ACCESSIBLE AIR SPITTER DAMPERS.
- RECTANGULAR DUCT ELBOWS SHALL HAVE A CENTRALIZE RADII OF NOT LESS THAN 1.5 TIMES THE WIDTH OF THE DUCT.
- SECURE FLEXIBLE DUCTS TO BRANCH TAKE-OFF COLLAR WITH HOSE CLAMP.
- MAXIMUM LENGTH OF ALL FLEXIBLE DUCT SHALL NOT BE MORE THAN 10 FEET UNLESS OTHERWISE NOTED.
- ALL DUCTS ABOVE THE ROOF TO BE UNINSULATED EXCEPT METAL INSULATED W/ 2" RIGID HILL BOARD AND SHEATHED WITH GALV. STEEL.
- EXTERIOR STEEL TO BE SEALED/WEATHERPROOFED, PRIMED AND PAINTED PER ARCHITECTURAL PAINT SCHEDULE.
- THE MECHANICAL CONTRACTOR SHALL INSTALL SMOKE DUCT DETECTORS IN THE SUPPLY DUCT OF ALL A/C UNITS EXCEEDING 1999 CFM.
- SMOKE DETECTOR SHALL BE INTERLOCKED W/ AHU CONTROL.
- DISBURSED TO ACCESSIBLE LOCATIONS. THE PLANS SHALL BE DISBURSED TO ACCESSIBLE LOCATIONS.
- REFRIGERATION ACCESSORIES SHALL BE AS APPROVED BY THE ENGINEER.
- ALL REFRIGERATION PIPE INSULATION SHALL BE MIN. 1/2" POLYURETHANE OR EQUAL APPROVED BY THE ENGINEER.
- ALL EXTERIOR LIQUID/SUCTION LINES SHALL BE INSULATED AND WEATHER PROOFED. ALL SUCION LINES INSIDE THE BUILDING SHALL BE INSULATED.
- LIQUID/SUCTION LINES SHALL BE ROUTED INSIDE THE STRUCTURE TO THE EXTENT PRACTICABLE.
- THE MECHANICAL CONTRACTOR SHALL SIZE ALL PIPING FOR THE SPECIFIC APPLICATION AND ROUTE OF PIPE.
- CONDENSATE PIPING SHALL BE PROVIDED WITH INSULATION AND DRAIN TO THE OUTSIDE.
- CONTRACTOR, THE MECHANICAL CONTRACTOR'S CONDENSATE PIPE SHALL INCLUDE A TRAP SIZE FOR AHU FAN STATIC PRESSURE.
- THE MECHANICAL CONTRACTOR SHALL SET AIR HANDLER UNIT AND CONDENSING UNIT AS SHOWN ON THE DRAWINGS. EQUIPMENT SHALL BE PROVIDED WITH PAD ISOLATORS.
- CONDENSING UNITS SHALL BE PROVIDED WITH BIRD AND INSECT SCREENS OF A CORROSION-RESISTANT MATERIAL. BIRD SCREEN SHALL NOT BE LARGER THAN 1/2" MESH AND INSECT SCREEN SHALL NOT BE LARGER THAN 18X14.
- THERMOSTATS SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- SHALL BE MOUNTED 5'-6" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL WIRING SHALL BE PROVIDED WITH APPROVED BY AC EQUIPMENT MANUFACTURERS.
- FIRE DAMPERS SHALL BE INSTALLED IN ALL DUCTS PENETRATING ROOFS, CELLINGS AND BUILDINGS AS BY CODE. ACCESS DOORS FOR INSPECTION AND RESET SHALL BE PROVIDED AT EACH LOCATION.
- FIRE DAMPERS PROVIDED IN KITCHEN EXHAUST DUCT SHALL BE EQUIPPED WITH 212F FUSIBLE LINK.

C) WARRANTIES

- CORRECTION OF ANY ENGINEERING DEFECT SHALL BE RECTIFIED WITHOUT ADDITIONAL CHARGE AND SHALL NOT INCLUDE REPLACEMENTS OR REPAIR OF ANY OTHER PARTS OF THE INSTALLATION, WHICH SHALL HAVE BEEN DAMAGED THEREBY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT WORK AND SHALL BE RESPONSIBLE FOR THE BALANCING OF THE SYSTEM SHALL BE BY A CERTIFIED THIRD PARTY.

DMG TAG	QTY	MFG. OR EQUAL	MODEL OR EQUAL	TOTAL COOL.	BTU/H			HEAT TYPE	SYSTEM SIZE	CFM		FAN STATIC (IN. W.G.)	HANGING POINT	CONDUIT SIZE (IN. AND) (1/2" & 3/4" & 1")	V/FM/HZ	QTY	FLA	LBA.	QTY	FLA	HP	FLA	ELECT. MOTOR (KW)	CONDENSING UNIT	AIR HANDLER UNIT	
					COOL.	HEAT	HEAT			SUPPLY AIR	RETURN AIR															OUTDOOR AIR
AHU 1-1	1	CARRIER	46RQ071H	140,000	10,600	85,300	ELEC. STRIP	12.5	4000	2940	1000	1.00	(2) 1-3/8" & (2) 1/2"	208-230/2/60	2	20.7	118.0	2	4.3	3.7	10.2	25	55.6	70	77.9	80
AHU 1-2	1	CARRIER	46RQ071H	141,000	92,400	51,180	ELEC. STRIP	12.5	3000	2245	755	1.00	(2) 1-3/8" & (2) 1/2"	208-230/2/60	2	20.7	96.0	2	2.2	3.7	10.2	15	56.6	70	51.9	80
AHU 1-3	1	CARRIER	Z4MVA136L0	141,000	92,400	85,300	ELEC. STRIP	12.5	3000	2245	755	1.00	(2) 1-3/8" & (2) 1/2"	208-230/2/60	2	20.7	82.0	2	2.2	3.7	10.2	25	56.6	70	77.9	80
AHU 1-4	1	CARRIER	Z4MVA149L0	141,000	92,400	51,180	ELEC. STRIP	12.5	3000	2330	670	1.00	(2) 1-3/8" & (2) 1/2"	208-230/2/60	2	20.7	96.0	2	2.2	3.7	10.2	15	56.6	70	51.9	60

NOTES

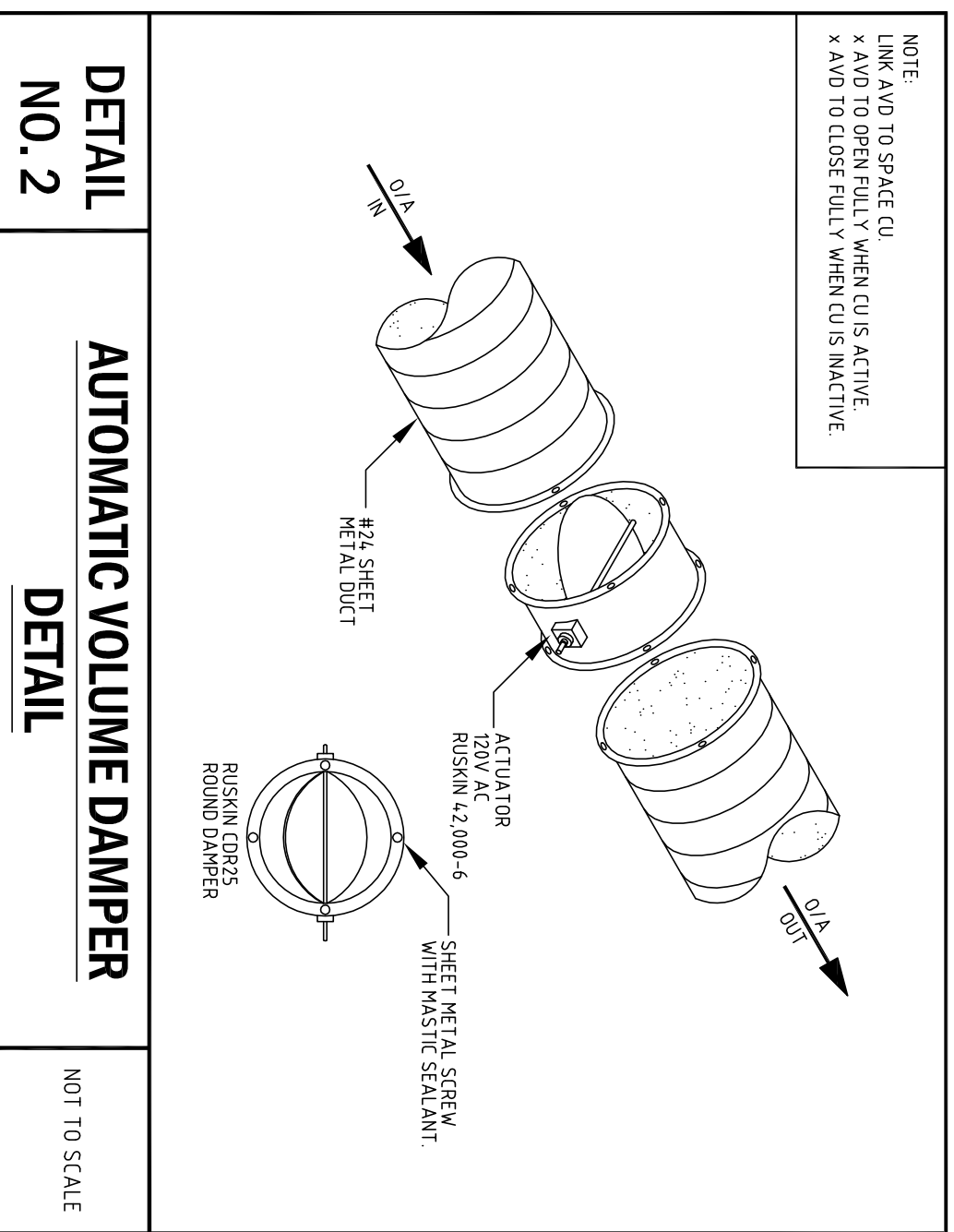
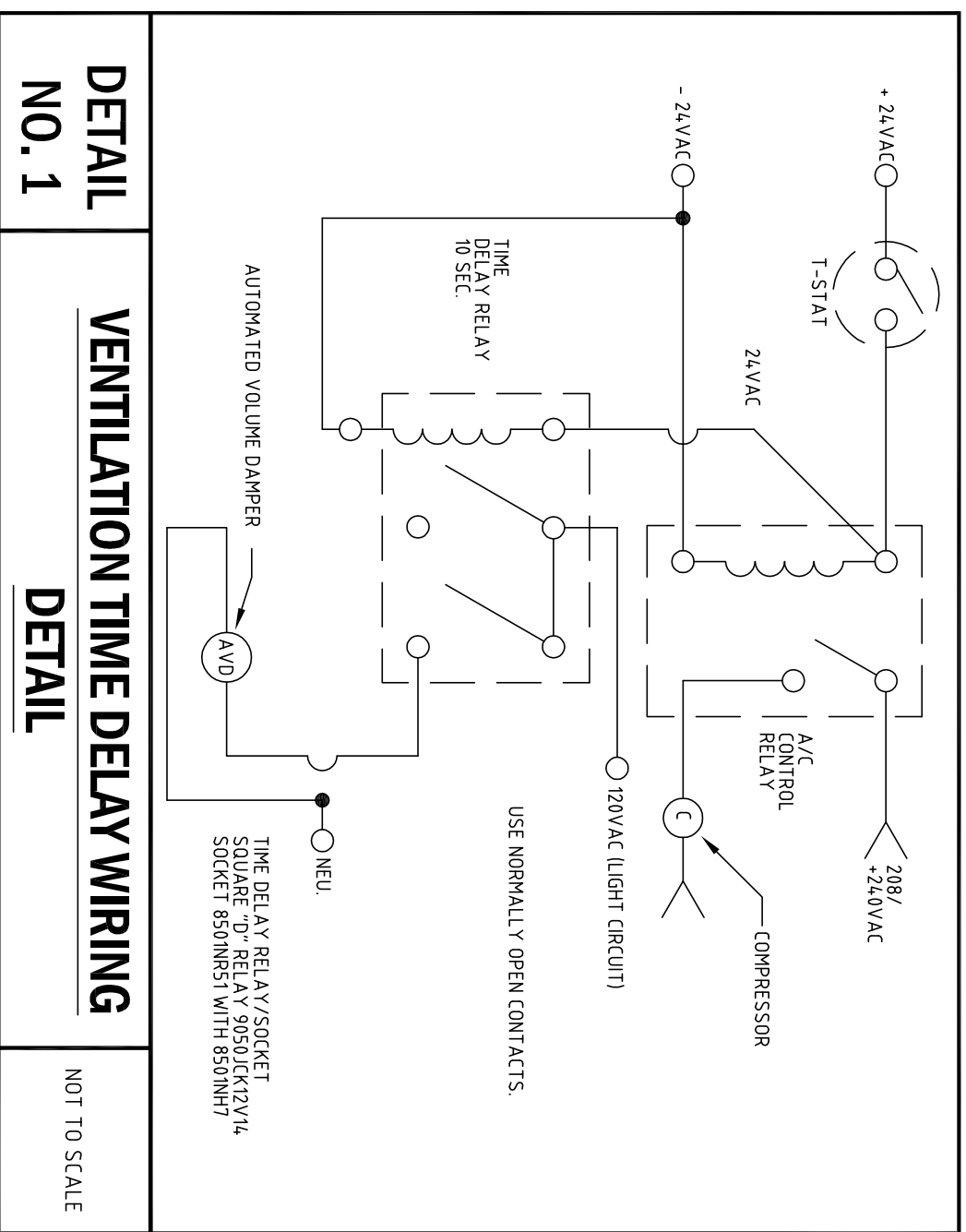
- VELOCITY IS MEASURED BY MANUFACTURE TESTING WHEN PAGED WITH CORRESPONDING CONDENSING UNIT (SEE CONDENSING UNIT SCHEDULE).
- CONTRACTOR SHALL SUPPLY HANDYHOUS SENSORS AND CONTROLS TO SIFT REHUMIDIFICATION CYCLE WITHIN EACH SPACE.

FAN SCHEDULE & DATA

DMG TAG	QTY	MFG. OR EQUAL	MODEL OR EQUAL	SERVICE	CFM	FAN STATIC (IN. W.G.)	DUCT CONNECT SIZE	V/FM/HZ	FLA	REMARKS
FD3	7	BRON	CRK1250	TOILET/SEN. EXH.	150	0.1	8	1250/1/60	0.3	

NOTES

- SUPPLY ALL FANS WITH NON-RETURN DAMPERS.



DETAIL NO. 2

AUTOMATIC VOLUME DAMPER

DETAIL

NOT TO SCALE

GENERAL NOTES:

- THE PURPOSE OF THIS DRAWING IS TO PROVIDE HANG ROOFING AND CONSTRUCTION DETAILS.
- ALL ELBOWS SHALL HAVE A CENTER LINE RADIUS OF 1.5W OR 1.5D AND BE SUPPLIED WITH S.M.A.C.N.A.
- ALL HANGER SPACING SHALL BE IN ACCORDANCE WITH S.M.A.C.N.A.
- NOTES TO BE PROVIDED TO ALL THE DAMPERS, FILTERS, INSTRUMENTS AND CONTROLS.
- NOT NOTED TO BE PROVIDED TO ALL THE DAMPERS, FILTERS, INSTRUMENTS AND CONTROLS.
- AHU MOUNTED IN THE HORIZONTAL POSITION SHALL BE EQUIPPED WITH A 1'-1/2" DEEP SECONDARY DRAIN PAN WITH A FLOAT SWITCH THAT SHALL BE CONNECTED TO FREIGHT OVERFLOWING.
- CONDENSING UNITS SHALL BE FIELD POINTED WITHIN THE FLOOD PLANE.
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- ALL DIMENSIONS ARE PROVIDED FOR REFERENCE AND THE CONTRACTOR SHALL CORRECT THE LOCATION IN THE FIELD.
- OF THE DUCT ALL DIMENSIONS ARE PROVIDED FOR REFERENCE.
- CONTRACTOR SHALL PROVIDE RA CONNECTION TO ATIC SPACE FOR SUPPLY. WGS SHALL BE PROVIDED IN ACCESSIBLE LOCATIONS FOR ADJUSTMENT AFTER CONSTRUCTION.
- ADJUSTMENT AFTER CONSTRUCTION.
- ADJUSTMENT AFTER CONSTRUCTION.
- PROVIDE ALL EQUIPMENT AND CONTROL FOR O22 ON DEMAND VENTILATION.

REVISIONS

REV. NO.	ISSUE FOR PERMIT	BY	APP'D.	DATE
00	ISSUE FOR PERMIT	TL	JL	01/26/12

revisions	no.	date
	0	//

designed	nm/ck/af/al
drawing	nm
checked	brt
date	01/26/2012
scale	AS NOTED
job no.	213004

VENTILATION (REF.: FBCM 402)

SPACE	# of OCCUPANTS	MINIMUM Q/O	SUPPLIED Q/O	MINIMUM INFILTRATION REQUIREMENTS MET
CLASSROOMS, CONDITIONED	200	3000	3260	YES

CLUBHOUSE UNIVERSITY DAYCARE

JUPITER FARMS SHOPPING CENTER
PALM BEACH COUNTY, FLORIDA

ARCHITECTURAL
Stricker, Inc.

Architecture
-
Planning

300 Avenue of Champions
Suite 370
Palm Beach Gardens, Florida 33418

Phone 561.202.4890
Fax 561.296.5194
archinfo@stricker.com

PERMIT SET: 01/26/12

NOTE: ANY CHANGES TO THE SYSTEM COVERED BY THESE PLANS WITHOUT PRIOR APPROVAL OF THE ENGINEER WHO PREPARED THESE PLANS, WILL NULL AND VOID THESE PLANS AND THE REVISIONS ASSOCIATED WITH RETURNING THE SYSTEM TO ITS ORIGINAL DESIGN WILL BE THE RESPONSIBILITY OF THE COMPANY WHICH APPROVED THESE CHANGES. THE COMPANY WHICH APPROVED THESE CHANGES SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER.

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MECHANICAL DATA, DETAILS & NOTES

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