DIMENSIONED DRAWINGS NOTE:

S REFRIGERANT SUCTION

CONTRACTOR SHALL PROVIDE TO THE ENGINEER OF RECORD DIMENSIONED PLANS INDICATING EQUIPMENT SIZES AND ALL MANUFACTURER CLEARANCES OF ACTUAL SUBMITTED EQUIPMENT IN ALL MECHANICAL, EQUIPMENT, VACUUM PUMP, WATER TREATMENT, MEDICAL GAS, AND WATER HEATER ROOMS PRIOR TO ROUGH-IN FOR REVIEW AND APPROVAL.

CODE CRITERIA: (BUSINESS)

A. THIS LIST IS NOT INCLUSIVE OF ALL CODES AND STANDARDS THAT MAY OR MAY NOT APPLY TO THIS PROJECT.

B. PERFORM WORK SPECIFIED IN SPECIFICATIONS IN ACCORDANCE WITH STANDARDS LISTED BELOW INCLUDING AMENDMENTS OR REVISIONS. WHEN THESE SPECIFICATIONS ARE MORE STRINGENT. THEY TAKE PRECEDENCE. IN CASE OF CONFLICT, OBTAIN A DECISION FROM THE

NFPA-13 (2019) INSTALLATION OF SPRINKLER SYSTEMS

NFPA-14 (2019)

INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

NFPA-54 (2021) NATIONAL FUÉL GAS CODE

NFPA-70 (2020)

NFPA-72 (2019)

NATIONAL ELECTRICAL CODE

NATIONAL FIRE ALARM CODE

NFPA-90A (2021) INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS

INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS

EXHAUST SYSTEMS FOR AIR CONVEYING OF VAPORS, GASES, MISTS, AND NON-COMBUSTIBLE PARTICULATE SOLIDS

VENTILATION CONTROL AND FIRE PREVENTION OF COMMERCIAL COOKING

NFPA-99 (2021) (WHERE APPLICABLE) HEALTH CARE FACILITIES

THE FLORIDA SPECIFIC EDITION OF NFPA 101. THE LIFE SAFETY CODE (2021 EDITION) [69A-3.012(1) FAC] [69A-53.004 FAC]

NFPA-110 (2019) EMERGENCY AND STANDBY POWER SYSTEMS

NFPA-241 (2019) STANDARD FOR SAFEGUARDING CONSTRUCTION. ALTERATION, AND DEMOLITION OPERATIONS.

NFPA-780 (2020) LIGHTNING PROTECTION CODE

FLORIDA BUILDING CODE, BUILDING 8TH EDITION (2023)

FLORIDA BUILDING CODE, MECHANICAL 8TH EDITION (2023) FLORIDA BUILDING CODE, PLUMBING 8TH EDITION (2023)

FLORIDA BUILDING CODE, TEST PROTOCOLS FOR HIGH WIND HURRICANE ZONES 8TH EDITION (2023)

FLORIDA BUILDING CODE, FUEL GAS 8TH EDITION (2023)

FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023) FLORIDA ACCESSIBILITY CODE 8TH EDITION (2023)

FLORIDA BUILDING CODE, ENERGY EFFICIENCY 8TH EDITION (2023)

STATE OF FLORIDA ADMINISTRATIVE CODE NO. 69A-3.012 AND 69A-60.

NOTE: WHERE THERE ARE DIFFERENCES BETWEEN SECTIONS OF THE "BUILDING" AND "MECHANICAL" OR "PLUMBING" CODES, IT WILL BE ASSUMED THAT THE BUILDING CODE TAKES PRECEDENCE.

MECHANICAL LEGEND:

MEDIUM PRESSURE TEE

[x] RECTANGULAR DUCT TURNING DOWN

 $\square \otimes \square$ ROUND DUCT TURNING DOWN

DUCT TURNING DOWN TO SIDEWALL REGISTER

DOUBLE LINE DUCTWORK BRANCH TAP OFF MAIN W/45° BOOT FITTING OR SPIN-IN

FITTING W/DAMPER (LOW PRESSURE)

TRANSITION IN DUCT (NOT DIRECTION OF AIRFLOW)

REGISTER TAPPING INTO BOTTOM OF DUCT

FIRE DAMPER

FIRE/SMOKE DAMPER

DUCT MOUNTED SMOKE DETECTOR

WITH ACCESS DOOR

CO2 SENSOR

c = = =

200

HUMIDISTAT

DUCT MOUNTED PRESSURE SENSOR

THERMOSTAT

MOTORIZED DAMPER SUPPLY DIFFUSER

RETURN GRILLE

EXHAUST GRILLE

INDICATES A SIZE "A" EXHAUST REGISTER SET FOR 100 CFM

INDICATES A SIZE "B" RETURN REGISTER SET FOR 200 CFM

SUPPLY DUCTWORK

RETURN DUCTWORK

INDICATES A SIZE "B" SUPPLY

DIFFUSER SET FOR 200 CFM

EXHAUST DUCTWORK (GENERAL)

EXHAUST DUCTWORK (HAZARDOUS / DEDICATED)

OUTDOOR AIR DUCTWORK

DUCT TERMINATION

45° FULL RADIUS TURN

FULL RADIUS TURN

SQUARE ELBOW W/TURNING VANES

UNDERCUT DOOR 3/4" **√**—— UNLESS OTHERWISE NOTED

CONNECT TO **EXISTING DEMOLITION POINT**

ACCESS DOOR

ABOVE FINISHED FLOOR

BUILDING AUTOMATION CONTROL SYSTEM BFF BELOW FINISHED FLOOR DPA

DIFFERENTIAL PRESSURE ALARM / MONITOR DUCT MOUNTED SMOKE DETECTOR VAV VARIABLE AIR VOLUME BOX

VARIABLE FREQUENCY DRIVE

PROJECT COORDINATION NOTES:

THE CONSTRUCTION COORDINATION OF THIS PROJECT IS OF THE UTMOST IMPORTANCE. ALL CONTRACTORS FOR ALL DIVISIONS OF THE WORK SHALL GUARANTEE THAT THEIR WORK IS IN ACCORD WITH THE ARCHITECTURAL CONTRACT DOCUMENTS. IF APPLICABLE, SHOULD IT BE NECESSARY TO ACCOMPLISH WORK IN AREAS WHICH ARE NOT INCLUDED IN THE DESIGNATED PROJECT SCOPE, SUCH WORK SHALL BE DONE WITH THE MINIMUM OF DISTURBANCES POSSIBLE AND WITHOUT CAUSING THE INTERRUPTION OF EXISTING SERVICES. ALL SERVICE INTERRUPTIONS THAT ARE ESSENTIAL TO THE WORK SHALL BE SCHEDULED, IN WRITING, WITH THE ARCHITECT AND, THEREBY, WITH THE OWNER\FACILITY. ALL CONTRACTORS FOR ALL TRADES SHALL COOPERATE AND COORDINATE THEIR WORK TO ALLOW THE COMPLETION OF ALL WORK WITH THE LEAST POSSIBLE NUMBER ON INTERFERENCE'S WITH THE SERVICES OF THE EXISTING BUILDING.

THE DESIGN DRAWINGS OF ALL CATEGORIES AND TRADES (ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MEDICAL GAS, MECHANICAL, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL) AND ALL SPECIFICATIONS AND SHOP DRAWINGS MUST BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.

MECHANICAL GENERAL NOTES:

CONTRACT REQUIREMENTS AFFECTING ALL TRADES:

IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW ALL DRAWINGS TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE.

 FIBERGLASS DUCT INSULATION SHALL NOT PENETRATE RATED WALLS. SPACE BETWEEN STUDS, HEADERS AND DUCT SHALL BE PACKED WITH MINERAL FIBER SAFING INSULATION. WHERE A FIRE DAMPER IS REQUIRED THE SPACE BETWEEN THE SLEEVE AND THE STUDS OR HEADERS SHALL BE OF THE PROPER CLEARANCE FOR THE SIZE OF THE DUCT IN ACCORDANCE WITH SMACNA REQUIREMENTS. FIRE DAMPER SLEEVES SHALL BE INSTALLED AND SECURED IN ACCORDANCE WITH SMACNA STANDARDS. FIRE DAMPERS SHALL BE INSTALLED IN THE PLANE OF THE RATED ASSEMBLY AND BE U.L. LISTED AS AN ASSEMBLY COMPLYING WITH U.L. 555.

2. CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS IN WALLS, NON-ACCESSIBLE CEILINGS, DUCTWORK AS REQUIRED AND ELSEWHERE AS INDICATED ON CONTRACT DOCUMENTS WHERE SERVICE ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT IS REQUIRED.

3. COORDINATE INSTALLATION OF PLUMBING, VENT STACKS AND CONDUIT TO PERMIT INSTALLATION OF RECESSED TOILET ACCESSORIES, FIRE EXTINGUISHER CABINETS AND OTHER RECESSED FOUIPMENT. WHERE SUCH ITEMS ARE RECESSED IN CORRIDOR, SMOKE OR FIRE/SMOKE WALLS

THEY SHALL BE INSTALLED IN A FIVE-SIDE ENCLOSURE.

4. THE CONTRACTOR SHALL ASSEMBLE A LOG OF CERTIFICATES AND INSPECTIONS ORGANIZED IN C.S.I. FORMAT PRIOR TO FINAL INSPECTION INCLUDING MANUFACTURER'S CERTIFICATION OF FLAME SPREAD, SMOKE AND RADIANT PANEL TEST, AND CERTIFICATE OF TESTS FOR MEDICAL GAS, RADIATION SHIELDING, HVAC TEST AND BALANCE, FIRE ALARM, FIRE PUMP. EMERGENCY GENERATOR, ETC. AS APPLICABLE TO THE PROJECT AND MAKE AVAILABLE AT FINAL INSPECTION.

5. CONTRACTOR SHALL VERIFY CONSTRUCTION IS COMPLETE AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS PRIOR TO FINAL INSPECTION. NOTIFY THE DESIGNER PRIOR TO INSPECTION OF ANY DEFICIENCIES OBSERVED.

6. CONTRACTOR SHALL SEAL ALL METAL JOINTS WITH GLASSFAB AND MASTIC PRIOR TO INSTALLATION OF INSULATION AND PRESSURE TEST DUCTWORK FOR LEAKAGE.

7. MANUAL VOLUME DAMPERS SHALL BE PROVIDED AT ALL RUNOUTS TO SUPPLY AIR DIFFUSERS. RETURN AIR REGISTERS. EXHAUST AIR REGISTERS. DIVISIONS IN DUCTWORK (SUPPLY, RETURN AND EXHAUST), AND ELSEWHERE NOTED ON PLANS AND IN SPECIFICATIONS FOR BALANCING SYSTEM. DAMPERS IN REGISTERS GRILLES AND DIFFUSERS ARE PROVIDED FOR FINAL ADJUSTMENTS DURING TEST AND BALANCING. DO NOT RELY ON DISTRIBUTION DEVICE DAMPERS FOR SYSTEM BALANCING.

8. COORDINATION OF ALL TRADES IS OF THE UTMOST IMPORTANCE. CEILING SPACE TO ROUTE WORK IN IS MINIMAL AT BEST, CONTRACTOR SHALL LAY OUT SYSTEMS IN CONJUNCTION WITH ALL TRADES TO AVOID CONFLICTS PRIOR TO INSTALLATION OF WORK.

9. PLUMBING VENT STACKS AND HVAC EXHAUST SHALL BE KEPT A MINIMUM OF 25' FROM ANY OUTSIDE AIR INTAKE. OUTSIDE AIR INTAKE MAY BE AS CLOSE AS 10' AWAY FROM EXHAUST AND PLUMBING VENTS FOR NON-

HEALTHCARE FACILITIES. 10. CONTRACTOR SHALL REVIEW PLACEMENT OF ALL HVAC EQUIPMENT ON

ROOF WITH STRUCTURAL DRAWINGS PRIOR TO INSTALLATION. 11. PROVIDE SEALED ROOF CURB AROUND ALL DUCTWORK AND PIPING PENETRATIONS THRU ROOF.

12. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6" CLEARANCE BETWEEN DUCTWORK, PIPING, AND ANY PRIORITY WALLS (TWO HOUR FIRE, TWO HOUR FIRE/SMOKE, ONE HOUR SMOKE).

13. PROVIDE ACCESS DOORS IN DUCTWORK FOR FIRE DAMPERS, REHEAT

COILS, DUCT MOUNTED SMOKE DETECTORS, AND ELSEWHERE WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT IS REQUIRED. 14. PROVIDE "YOUNG" REMOTE VOLUME REGULATOR FOR ALL DAMPERS

LOCATED ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FINISH SCHEDULE FOR CEILING TYPES.

15. ALL OUTSIDE AIR INTAKES ON ROOF SHALL BE KEPT A MINIMUM OF 36" ABOVE ROOF FOR HEALTHCARE FACILITIES, 12" FOR NON-HEALTHCARE. PROVIDE DUCTWORK OR CURB EXTENSIONS AS NECESSARY TO PROVIDE CLEARANCE. 16. FOR AIR HANDLERS WITH DESIGN AIRFLOW ABOVE 2000 CFM, INSTALL

SMOKE DETECTORS IN RETURN AIR DUCTWORK (PRIOR TO DILUTION OF OUTSIDE AIR) AND SUPPLY AIR DUCTWORK WITH SAMPLING TUBES IN AIRSTREAM ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS. FOR ALL DUCT MOUNTED SMOKE DETECTORS PROVIDE AN AIR DIFFERENTIAL TEST ACROSS DETECTOR SAMPLING TUBES, RELOCATE OR ADJUST THE SAMPLING TUBES WHERE NECESSARY TO PROVIDE AN AIR DIFFERENTIAL WITHIN THE ACCEPTABLE RANGE ESTABLISHED BY THE MANUFACTURER. RESULTANT TEST DATA SHALL BE MADE AVAILABLE AT THE FINAL SURVEY AND WILL BE INCLUDED IN LOG OF CERTIFICATES. DUCT MOUNTED SMOKE DETECTORS TO BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

17. MAINTAIN THE CLEAR SPACES AROUND, OVER AND UNDER EQUIPMENT ELECTRICAL PANELS, SYSTEMS AND SYSTEM COMPONENTS IN CEILING CAVITIES NECESSARY FOR CONVENIENT OBSERVATION, OPERATION AND MAINTENANCE. PAY SPECIAL ATTENTION TO ACCESS TO FIRE DAMPERS, FIRE AND SMOKE DAMPERS, DUCT SMOKE DETECTORS, ELECTRIC DUCT HEATER CONTROLS, FILTER ACCESS DOORS, MEDICAL GAS VALVES, FIRE PROTECTION SYSTEM VALVES, ETC. DO NOT INSTALL DUCTWORK OR PIPING OF ANY KIND ABOVE ELECTRICAL PANELS PER NEC. COORDINATE AND FIELD VERIFY FINAL LOCATION OF ELECTRICAL PANELS WITH ELECTRICAL CONTRACTOR BEFORE INSTALLATION OF DUCTWORK AND

18. DO NOT INSTALL EQUIPMENT, SYSTEMS OR SYSTEM COMPONENTS WHERE THEY MAY ENCROACH ON THE CLEAR SPACES NECESSARY FOR OPERATION OR MAINTENANCE OF ITEMS INSTALLED BY OTHER TRADES WITHOUT CONFIRMING THAT THE CLEAR SPACE REQUIREMENTS OF THE OTHER TRADE WILL BE MAINTAINED.

19. WHERE THE WORK OF OTHER TRADES MAY ENCROACH ON CLEAR SPACES REQUIRED FOR WORK INSTALLED UNDER THESE SECTIONS, COORDINATE WITH THE OTHER TRADES AND THE GENERAL CONTRACTOR TO MAINTAIN THE REQUIRED CLEAR SPACES.

20. MECHANICAL EQUIPMENT AND PIPING INSTALLED ON ROOF SHALL BE

SECURED TO MEET FBC WIND LOADING REQUIREMENTS. 21. MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED IN A LOCATION WHERE SUBJECT TO MECHANICAL DAMAGE UNLESS PROTECTED BY APPROVED BARRIERS. MECHANICAL EQUIPMENT AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE

22. PROVIDE DUCT ACCESS PANELS PER NFPA 90A.

23. PROVIDE EMERGENCY SHUT OFF FOR HVAC SYSTEMS PER NFPA 90A.

WIND PRESSURES IN ACCORDANCE WITH FLORIDA BUILDING CODE.

24. ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO CONDENSING UNITS, CONTROL PANELS, AIR HANDLING UNIT EQUIPMENT, AND VARIABLE FREQUENCY DRIVES SHALL HAVE SCCR (SHORT CIRCUIT CURRENT RATING) GREATER THAN OR EQUAL TO THE AMPERE INTERRUPTING CAPACITY (AIC) RATING OF THE ELECTRICAL DISTRIBUTION SYSTEM SERVING THE EQUIPMENT. COORDINATE AIC AND SCCR REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING ELECTRICAL EQUIPMENT. ANY EQUIPMENT FOUND ON SITE WITH SCCR RATING LESS THAN REQUIRED WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.

25. DAMPERS EQUIPPED WITH FUSIBLE LINKS. INTERNAL OPERATORS OR BOTH SHALL BE PROVIDED WITH AN ACCESS DOOR NO LESS THAN 12" SQUARE OR PROVIDED WITH A REMOVABLE DUCT SECTION. DUCT SERVICE OPENINGS SHALL BE IDENTIFIED WITH LETTERS 1/2" MINIMUM IN HEIGHT TO INDICATE THE PROTECTION DEVICE WITHIN.

26. REFER TO FIRE PROTECTION DETAILS FOR U.L. RATED WALL PENETRATION DETAILS.

HIGH WIND PROTECTION OF EQUIPMENT:

IN COMPLIANCE WITH FMC-301.15; MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH FBC. EXCEPTION: EXPOSED MECHANICAL EQUIPMENT OR APPLIANCES FASTENED TO A ROOF OR INSTALLED ON THE GROUND IN COMPLIANCE WITH THE CODE USING RATED STANDS, PLATFORMS, CURBS SLABS, WALLS, OR OTHER MEANS ARE DEEMED TO COMPLY WITH THE WIND RESISTANCE REQUIREMENTS OF THE FLORIDA BUILDING CODE, AS AMENDED. FURTHER SUPPORT OR ENCLOSURE OF SUCH MECHANICAL

EQUIPMENT OR APPLIANCES IS NOT REQUIRED BY A STATE OR LOCAL

OFFICIAL HAVING AUTHORITY TO ENFORCE THE FLORIDA BUILDING CODE.

APPLIANCES SHALL NOT BE INSTALLED IN A LOCATION WHERE SUBJECT TO MECHANICAL DAMAGE UNLESS PROVIDED WITH PROTECTION FROM DAMAGE IN ACCORDANCE WITH FBC-451.3.6.6.

GENERATOR FUEL OIL TANK ENCLOSURE, PIPING, VALVES, AND OTHER APPURTENANCES SHALL BE SECURED AND PROTECTED FOR CONTINUED OPERATION AND BE DESIGNED TO COMPLY WITH THE FBC WIND ZONE MAPS FOR THE AREA.

PRIOR TO FINAL ACCEPTANCE OF PROJECT. GENERAL CONTRACTOR SHALL PROVIDE WIND RESISTANCE DESIGN DOCUMENTS THAT ARE SIGNED. SEALED, AND DATED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA IN COMPLIANCE WITH FBC.

MECHANICAL SCOPE OF WORK:

THIS PROJECT INVOLVES THE BUILDOUT OF A NEW PHYSICAL THERAPY

TWO NEW PACKAGED DX ROOFTOP UNITS AND ASSOCIATED DUCTWORK. VARIABLE AIR VOLUME BOXES WITH ELECTRIC REHEAT, AIR DEVICES, AND CONTROLS WILL BE INSTALLED TO ACCOMMODATE PROJECT NEEDS. ONE RTU WILL SERVE THE PHYSICAL THERAPY AREAS, ADMIN SPACES, AND LOCKER ROOMS AND ONE RTU WILL SERVE THE POOL ROOM. NEW EXHAUST SYSTEMS WILL ALSO BE INSTALLED. THE ROOF MOUNTED UNITS AND EXHAUST FANS WILL BE INSTALLED IN COMPLIANCE WITH FBC WINDLOAD REQUIREMENTS. WALL MOUNTED DUCTLESS DX UNITS WILL BE PROVIDED FOR INDIVIDUAL ROOMS AS REQUIRED.

MECHANICAL SHEET LIST SHEET NUMBER SHEET NAME M000 MECHANICAL LEGEND M110 HVAC FIRST FLOOR PLAN MECHANICAL ROOF PLAN M210 HVAC CONTROLS & PIPING FIRST FLOOR PLAN HVAC ISOMETRIC PLAN M700 MECHANICAL SCHEDULES M800 MECHANICAL DETAILS M801 | MECHANICAL DETAILS M802 | MECHANICAL DETAILS M900 MECHANICAL CONTROLS M901 | MECHANICAL CONTROLS

Project Architect:



4625 E Bay Drive, #228, Clearwater, FL 33764

CONSULTING ENGINEERS

ICT PROJECT NO. 240626.00 FIRM CERTIFICATE OF AUTHORIZATION FLORIDA REG. #CA-0001276 MECHANICAL ENGINEER DAN A. NESMAN, P.E. FLORIDA #54888 ELECTRICAL ENGINEER

Project Name:

JACKSON THERAPY **CENTER**

Project Number: 24011 Project Location:

3030 Hospital Drive

Marianna, FL 32446

#\ REVISIONS No. Description

> Drawing Title: **MECHANICAL**

> > **M000**

Drawing Number:

Scale: 1/8" = 1'-0"

Mason Blau & Associates AR0013034

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I.C. Thomasson Associates, Inc 3031 N. ROCKY POINT DR. W., SUITE 750 PHONE (813) 882-4415 WWW.ICTHOMASSON.COM

MANNY CRUZ Jr., P.E. Seal & Signature:

CONSTRUCTION DOCUMENTS Issue Date: 4/17/25

LEGEND

Drawn by: OA Checked by: Checker



GENERAL NOTES:

A. PROVIDE PERMANENT LABEL AT CEILING FOR ALL NEW DAMPERS AND VALVES LOCATED ABOVE CEILING IN AREAS THAT ARE ACCESSED DURING CONSTRUCTION.

C. VERIFY ALL SMOKE/FIRE AND FIRE PARTITIONS ARE LABELED ABOVE

F. FIRE AND SMOKE DAMPERS SHALL BE PROVIDED WITH AN APPROVED MEANS OF ACCESS THAT IS LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. DAMPERS EQUIPPED WITH FUSIBLE LINKS, INTERNAL OPERATORS OR BOTH SHALL BE PROVIDED WITH AN ACCESS DOOR THAT IS NOT LESS THAN 12 INCHES SQUARE OR PROVIDED WITH A REMOVABLE DUCT SECTION. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR OF A LABEL HAVING LETTERS NOT LESS THAN 1/2 INCH IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER OR FIRE DAMPER.

BY AN APPROVED U.L. LISTED FIRE DAMPER AND/OR COMBINATION SMOKE/FIRE DAMPER AS APPROPRIATE. ALL PIPING AND CONDUIT PENETRATIONS OF THE SAME WALLS SHALL ALSO BE APPROPRIATELY PROTECTED. REFER TO THE WALL FIRE RATING KEY ON THIS SHEET.

CODED NOTES:

1. VAV BOX WITH ELECTRIC REHEAT. PROVIDE MINIMUM 3'-0" CLEAR ACCESS IN FRONT OF HEATER PER NEC, TYPICAL. PROVIDE ACCESS PANELS IN HARD CEILINGS, IF APPLICABLE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL CEILING PLAN.

2. 26"x20" SUPPLY AIR DUCT AND 28"x20" RETURN AIR DUCT UP TO RTU-1 ON FIELD VERIFY EXACT LOCATION AND COORDINATE WITH STRUCTURAL.

4. DUCT MOUNTED SMOKE DETECTOR WITH ACCESS DOOR. PROVIDE ACCESS WITH ARCHITECTURAL CEILING PLAN. TYPICAL.

ON ROOF. PROVIDE TRANSITION AS REQUIRED. INTERLOCK EXHAUST FAN WITH RTU-1 TO SHUT DOWN EXHAUST FAN UPON MANUAL OR AUTOMATIC SHUTDOWN OF ASSOCIATED RTU.

SHUTDOWN OF ASSOCIATED RTU. 7. 12"x12" EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-1.3 ON ROOF. PROVIDE TRANSITION AS REQUIRED. INTERLOCK EXHAUST

8. 18"x18" EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-2.1 ON ROOF. PROVIDE TRANSITION AS REQUIRED. INTERLOCK EXHAUST FAN WITH RTU-2 TO SHUT DOWN EXHAUST FAN UPON MANUAL OR AUTOMATIC

SHUTDOWN OF ASSOCIATED RTU. 9. WALL MOUNTED MINI SPLIT. MOUNT UNIT ABOVE DOOR OR ON WALL AS SHOWN (6'-6" MIN. ABOVE FLOOR). MAINTAIN ALL MANUFACTURER'S

RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW.

10. FIRE DAMPER OR FIRE/SMOKE DAMPER. ENSURE DAMPER IS VISIBLE AND REACHABLE WITHIN 18" FROM ACCESSIBLE SIDE. INSTALL ACCESS DOORS ABOVE DROP CEILINGS WHERE POSSIBLE. PROVIDE CEILING ACCESS PANEL FOR DUCT ACCESS DOORS THAT ARE INSTALLED ABOVE HARD CEILINGS.

11. ROUTE 16"x12" EXHAUST DUCT DOWN IN CORNER TO 16"x38" SIDEWALL EXHAUST GRILLE WITH BOTTOM ELEVATION AT 8" A.F.F. COORDINATE FINAL HEIGHT WITH FLOORING BASE.

INSULATED SPIRAL DUCT.

13. SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE WELDED ALUMINUM.

REFER TO SEQUENCE OF OPERATION. COORDINATE FINAL LOCATION IN FIELD. 15. CONTRACTOR SHALL CONFIRM THAT ANY NEW DUCTWORK OR PIPING IS

ETC. WITHIN POOL A112 AND POOL EQUIPMENT A115 SHALL BE PAINTED WITH HIGH QUALITY EPOXY POOL PAINT. COORDINATE EXACT COLOR WITH

17. REFER TO SHEET M210 FOR DIRECT INTAKE AND COMBUSTION AIR VENTS FOR GAS-FIRED EQUIPMENT.

18. FIRE DAMPER SHALL BE ACCESSIBLE THROUGH THE REMOVABLE SUPPLY

MECH 8 FILTER.

20. POOL EQUIPMENT ROOM VENTILATION. PROVIDE 10"x'8" EXHAUST DUCT DOWN TO 10"x10" EXHAUST GRILLE AT 1'-0" A.F.F. BALANCE EXHAUST REGISTER TO 300 CFM. COORDINATE DUCTWORK ROUTING WITH SHIPS LADDER.

21. 10"x8" EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-PE ON ROOF. PROVIDE TRANSITION AS REQUIRED. EXHAUST FAN TO RUN CONTINUOUSLY. PROVIDE BAS FAN STATUS.

B. PROVIDE SAFE, ADEQUATE AND PRACTICAL ACCESS TO ALL APPLIANCES AND DEVICES ABOVE THE CEILING AND BEHIND WALLS FOR COMPLETE INSPECTION, TESTING AND MAINTENANCE WITHOUT DISTURBING ANY BUILDING SYSTEM OR DEVICE EXCEPT FOR ACCESS DOORS AND/OR REMOVABLE CEILING TILES.

D. PROVIDE AN ACCESSIBLE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT ON ALL RUNOUTS TO AIR DISTRIBUTION DEVICES. TYPICAL. E. CLOSELY COORDINATE INSTALLATION AND ROUTING OF DUCTWORK WITH ALL OTHER TRADES. INSTALL LARGER DUCTWORK SUPPLY AND RETURN MAINS AS HIGH AS POSSIBLE AND TIGHT TO STRUCTURAL AS MUCH AS POSSIBLE. INSTALL DUCTWORK AS REQUIRED TO MAKE ALL BRANCH CONNECTIONS. FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS.

G. ALL DUCTWORK PENETRATIONS OF RATED WALLS SHALL BE PROTECTED

ROOF. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH STRUCTURAL. 3. 34" SUPPLY AIR DUCT AND 32" RETURN AIR DUCT UP TO RTU-2 ON ROOF.

PANELS IN HARD CEILINGS, IF APPLICABLE. COORDINATE EXACT LOCATION

5. 6"x6" EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-1.1

ON ROOF. PROVIDE TRANSITION AS REQUIRED. INTERLOCK EXHAUST FAN WITH RTU-1 TO SHUT DOWN EXHAUST FAN UPON MANUAL OR AUTOMATIC

6. 10"x8" EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-1.2

FAN WITH RTU-1 TO SHUT DOWN EXHAUST FAN UPON MANUAL OR AUTOMATIC SHUTDOWN OF ASSOCIATED RTU.

12. EXPOSED ROUND DUCT WITHIN POOL ROOM SHALL BE DUAL-WALL

14. DUCT STATIC PRESSURE SENSOR FOR SUPPLY FAN SPEED CONTROL.

NOT ROUTED OVER ANY NEW ELECTRICAL PANEL. 16. ALL STRUCTURAL ELEMENTS, DUCTWORK, AIR DEVICES, PIPING, CONDUITS,

19. HURRICANE RATED WALL LOUVER (INTAKE). INSTALL LOUVER AS SHOWN AND MOUNTED AT MINIMUM 11'-0" ABOVE GRADE. COORDINATE FINAL LOCATION WITH ARCHITECT. COORDINATE FINISH WITH ARCHITECT. PROVIDE PLENUM FULL SIZE OF LOUVER TO INTERIOR OF SPACE. PROVIDE FILTER RACK WITH MERV-8 WASHABLE FILTER EQUIVALENT TO SMITH FILTER CORPORATION



Project Architect:

Mason Blau & Associates 4625 E Bay Drive, #228, Clearwater, FL 33764 AR0013034 T: 727.530.0570



CONSULTING ENGINEERS 3031 N. ROCKY POINT DR. W., SUITE 750 TAMPA, FL. 33607 PHONE (813) 882-4415 WWW.ICTHOMASSON.COM ICT PROJECT NO. 240626.00 FIRM CERTIFICATE OF AUTHORIZATION FLORIDA REG. #CA-0001276 MECHANICAL ENGINEER DAN A. NESMAN, P.E. FLORIDA #54888 ELECTRICAL ENGINEER

MANNY CRUZ Jr., P.E. FLORIDA #92000 Seal & Signature:

Project Name:

JACKSON PHYSICAL CENTER

Project Number: 24011 Project Location:

3030 Hospital Drive Marianna, FL 32446

CONSTRUCTION DOCUMENTS Issue Date: 4/17/25

	D : ::	15 (
NO.	Description	Date

PARTITION LEGEND

◆s ◆s ◆s ◆s ONE HOUR FIRE / SMOKE BARRIER *** * *** S S S S

(LEAD THICKNESS INDICATED IN MM) ______ 2 MM _____ LEAD LINED PARTITION (LEAD THICKNESS INDICATED IN MM)

FOUR HOUR FIRE / SMOKE BARRIER FOUR HOUR FIRE WALL TWO HOUR FIRE / SMOKE BARRIER TWO HOUR FIRE WALL

ONE HOUR FIRE WALL **SMOKE PARTITION TO DECK** NON-RATED PARTITION SOUND ATTENUATION BATT (1 HOUR)

SOUND ATTENUATION BATT (2 HOUR) SHAFT WALL ASSEMBLY (RATING WITHIN WALL) SHAFT WALL ASSEMBLY (RATING WITHIN WALL) (2 HOUR) LEAD LINED PARTITION

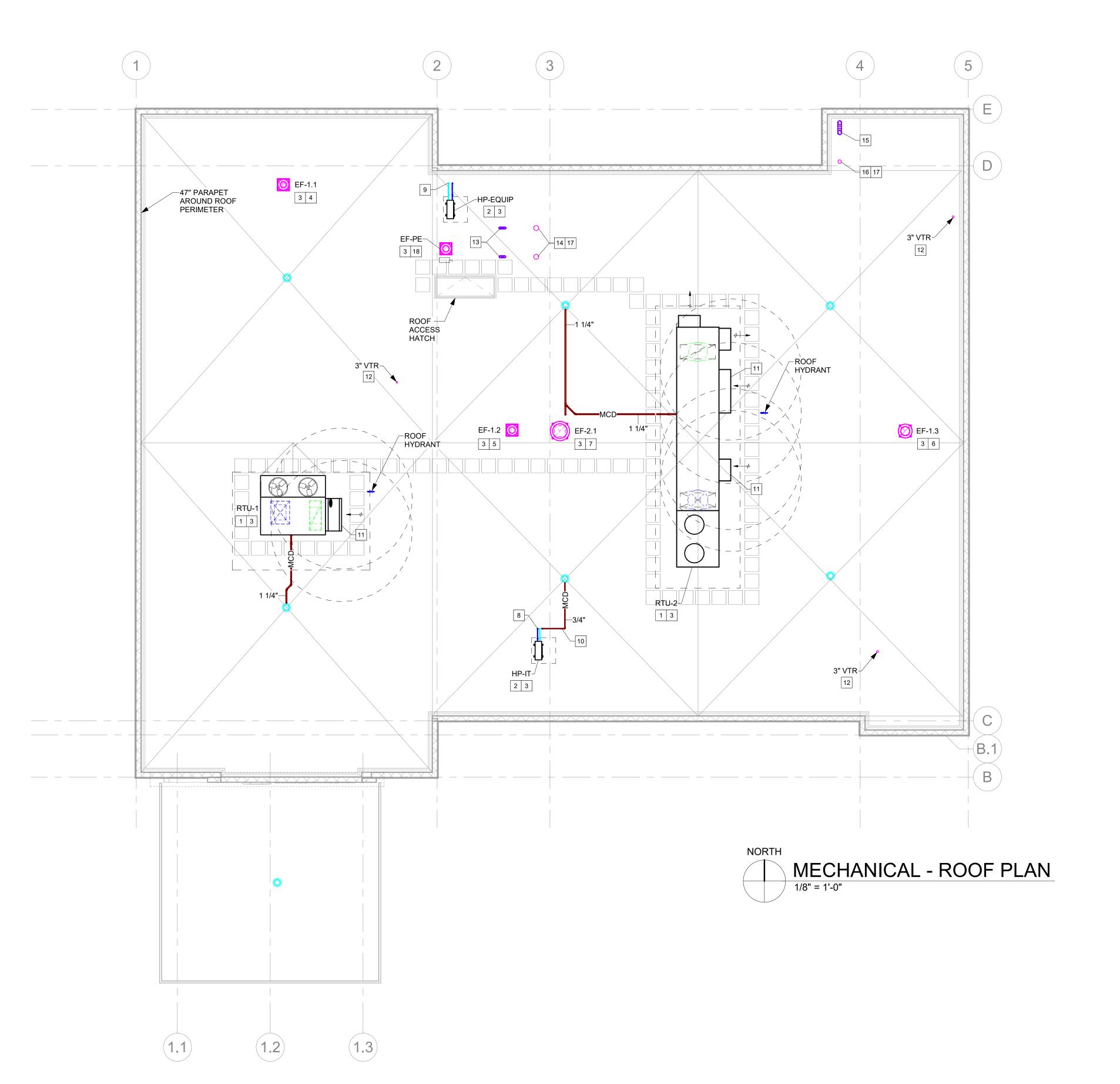
HVAC FIRST FLOOR

Drawing Title:

PLAN

Drawn by: OA Checked by: Checker Scale: 1/8" = 1'-0"

Drawing Number:



GENERAL NOTES:

A. PROVIDE SAFE, ADEQUATE AND PRACTICAL ACCESS TO ALL APPLIANCES AND DEVICES ON ROOF FOR COMPLETE INSPECTION, TESTING AND MAINTENANCE WITHOUT DISTURBING ANY BUILDING SYSTEM OR DEVICE EXCEPT FOR ACCESS DOORS.

B. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO CURB AND STRUCTURE IN COMPLIANCE WITH FBC WIND LOAD REQUIREMENTS. WIND LOAD CALCULATIONS AND SECUREMENT DETAILS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER AND PROVIDED BY THE CONTRACTOR IN A DEFERRED SUBMITTAL.

CODED NOTES:

1. PACKAGED ROOF-TOP UNIT. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW. COORDINATE PLACEMENT OF UNIT ON ROOF CURB WITH STRUCTURAL ENGINEER. OUTSIDE AIR INTAKE SHALL BE MINIMUM 12" ABOVE FINISHED ROOF WITH 1/2" METAL MESH SCREEN. SUPPLY AND RETURN DUCT FULL SIZE OF UNIT DISCHARGE WITH TRANSITION TO DUCT SIZE ABOVE CEILING. EXTEND PVC CONDENSATE DRAIN WITH TRAP AT UNIT TO NEAREST ROOF DRAIN WITH MINIMUM SLOPE AT 1/8" PER FOOT. SUPPORT CONDENSATE PIPING WITH 1"x8"x12" CONCRETE PAVERS SPACED AT 6'-0" O.C. SECURE PIPING TO PAVERS WITH 1" WIDE 24 GAUGE STAINLESS STEEL STRAPS. SECURE STRAPS TO PAVERS WITH 1/4"x1" TAPCONS. TYPICAL.

2. HEAT PUMP. MOUNTED AND INSTALLED ON NEW EQUIPMENT STAND. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW. COORDINATE FINAL SIZE OF EQUIPMENT STAND WITH UNIT DIMENSIONS AND REQUIRED CLEARANCES. HEIGHT OF EQUIPMENT STAND SHALL COMPLY WITH FBC TABLE 1510.10. PROVIDE 1" INSULATION ON ALL EXTERIOR REFRIGERANT PIPING WITH PVC JACKET WITH UV COATING ON EXPOSED PIPING (TYPICAL).

3. ATTACH THE MECHANICAL ROOFTOP EQUIPMENT TO THE STRUCTURE TO MEET THE REQUIREMENTS OF THE FLORIDA MECHANICAL CODE CHAPTER

4. 6"x6' EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-1.1. PROVIDE TRANSITION AS REQUIRED. INTERLOCK WITH RTU-1.

5. 10"x8' EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-1.2. PROVIDE TRANSITION AS REQUIRED. INTERLOCK WITH RTU-1.

6. 12"x12' EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN

EF-1.3. PROVIDE TRANSITION AS REQUIRED. INTERLOCK WITH RTU-1.

7. 18"x18' EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-2.1. PROVIDE TRANSITION AS REQUIRED. INTERLOCK WITH RTU-2.

8. REFRIGERANT PIPING AND PUMPED CONDENSATE DRAIN PIPING UP FROM 1ST FLOOR AND THRU PIPE CURB. SEAL ROOF PENETRATIONS AS REQUIRED.

9. REFRIGERANT PIPING UP FROM 1ST FLOOR AND THRU PIPE CURB. SEAL ROOF PENETRATIONS AS REQUIRED.10. ROUTE CONDENSATE DRAIN PIPING TO NEAREST ROOF DRAIN WITH

MINIMUM SLOPE AT 1/8" PER FOOT. SUPPORT CONDENSATE PIPING WITH 1"x8"x12" CONCRETE PAVERS SPACED AT 6'-0" O.C. SECURE PIPING TO PAVERS WITH 1" WIDE 24 GAUGE STAINLESS STEEL STRAPS. SECURE STRAPS TO PAVERS WITH 1/4"x1" TAPCONS.

11. MAINTAIN MINIMUM 10'-0" SEPARATION FROM FRESH AIR INTAKE AND ALL EXHAUST FANS. TYPICAL.

12. NEW VTR. MAINTAIN MINIMUM 10'-0" SEPARATION FROM ALL FRESH AIR INTAKES. COORDINATE WITH PLUMBING.

13. 3" OUTSIDE AIR INTAKE UP FROM POOL WATER HEATER. PROVIDE A DOWNTURNED PIPE SECTION (GOOSENECK) THAT TERMINATES AT LEAST 12" ABOVE FINISHED ROOF AND AT LEAST 36" FROM COMBUSTION AIR DISCHARGE. COORDINATE EXACT PIPING REQUIREMENTS WITH POOL HEATER MANUFACTURER.

14. 8" COMBUSTION AIR VENT UP FROM POOL WATER HEATER. PROVIDE VENT CAP AT PIPE DISCHARGE. BOTTOM OF VENT CAP SHALL TERMINATE AT LEAST 24" ABOVE FINISHED ROOF AND AT LEAST 8'-0" FROM NEAREST VERTICAL SURFACE. COORDINATE EXACT PIPING REQUIREMENTS WITH POOL HEATER MANUFACTURER.

15. 6" OUTSIDE AIR INTAKE UP FROM GAS WATER HEATER. PROVIDE A DOWNTURNED PIPE SECTION (GOOSENECK) THAT TERMINATES AT LEAST 12" ABOVE FINISHED ROOF AND AT LEAST 24" FROM COMBUSTION AIR DISCHARGE. COORDINATE EXACT PIPING REQUIREMENTS WITH WATER HEATER MANUFACTURER.

16. 6" COMBUSTION AIR VENT UP FROM GAS WATER HEATER. PROVIDE VENT CAP AT PIPE DISCHARGE. BOTTOM OF VENT CAP SHALL TERMINATE AT LEAST 24" VERTICALLY ABOVE BOTTOM OF OUTSIDE AIR INTAKE AND AT LEAST 24" FROM NEAREST VERTICAL SURFACE. COORDINATE EXACT PIPING

17. COMBUSTION AIR EXHAUST SHALL BE AT LEAST 10'-0" FROM ALL MECHANICAL FRESH AIR INTAKES.

REQUIREMENTS WITH WATER HEATER MANUFACTURER.

18. 10"x8' EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-PE. PROVIDE TRANSITION AS REQUIRED.

MBA

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FLORIDA #54888

ELECTRICAL ENGINEER
MANNY CRUZ. Jr., P.E.
FLORIDA #92000

Seal & Signature:

Project Name:

JACKSON PHYSICAL THERAPY CENTER

Project Number: 24011
Project Location:
3030 Hospital Drive

Marianna, FL 32446

CONSTRUCTION DOCUMENTS

Issue Date: 4/17/25

REVISIONS

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Vo.	Description	Date	

Drawing Title:

MECHANICAL

ROOF PLAN

M120

Drawn by: OA

Checked by: Checker Scale: 1/8" = 1'-0"

Drawing Number:

/25/2025 3:53:44 PM :\!\| | sers\oaliff\)Documents\\Bevit Projects\\\CT-240626-MEP24-CFNTBA\|



GENERAL NOTES:

A. PROVIDE SAFE, ADEQUATE AND PRACTICAL ACCESS TO ALL APPLIANCES AND DEVICES ABOVE THE CEILING AND BEHIND WALLS FOR COMPLETE INSPECTION, TESTING AND MAINTENANCE WITHOUT DISTURBING ANY BUILDING SYSTEM OR DEVICE EXCEPT FOR ACCESS DOORS AND/OR REMOVABLE CEILING TILES.

B. ALL DUCTWORK PENETRATIONS OF RATED WALLS SHALL BE PROTECTED BY AN APPROVED U.L. LISTED FIRE DAMPER AND/OR COMBINATION SMOKE/FIRE DAMPER AS APPROPRIATE. ALL PIPING AND CONDUIT PENETRATIONS OF THE SAME WALLS SHALL ALSO BE APPROPRIATELY PROTECTED. REFER TO THE WALL FIRE RATING KEY ON THIS SHEET.

CODED NOTES:

MANUFACTURER.

1. WALL MOUNTED MINI SPLIT. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW. ROUTE REFRIGERANT PIPING AND PUMPED CONDENSATE DRAIN TO CENTRAL LOCATION AS SHOWN AND UP TO ROOF. CONDENSATE DRAIN LINE SHALL INCLUDE TRAP OR IN-LINE CHECK VALVE PER FPC 314.2.4.1. CONDENSATE PIPING SHALL BE INSULATED PVC.

2. WALL MOUNTED MINI SPLIT. MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR SERVICE AND AIR FLOW. ROUTE REFRIGERANT PIPING TO CENTRAL LOCATION AS SHOWN AND UP TO ROOF. ROUTE CONDENSATE PIPING TO NEAREST FLOOR DRAIN AS SHOWN. CONDENSATE DRAIN LINE SHALL INCLUDE TRAP OR IN-LINE CHECK VALVE PER FPC 314.2.4.1. CONDENSATE PIPING SHALL BE INSULATED PVC.

3. WALL MOUNTED THERMOSTAT/HUMIDISTAT. PROVIDE LOCKING COVER FOR PUBLIC AREAS.

4. WALL MOUNTED THERMOSTAT. PROVIDE LOCKING COVER FOR PUBLIC

5. DUCT STATIC PRESSURE SENSOR FOR SUPPLY FAN SPEED CONTROL. REFER TO SEQUENCE OF OPERATION. COORDINATE FINAL LOCATION IN FIELD.

6. HVAC CONTROL PANEL. COORDINATE FINAL LOCATION IN FIELD. 7. FLOOR DRAIN FOR MECHANICAL CONDENSATE SHALL BE CONNECTED TO

INFORMATION. 8. 3" OUTSIDE AIR INTAKE (PVC) DOWN FROM ROOF. CONNECT TO DIRECT AIR INTAKE ON POOL WATER HEATER AS SHOWN. COORDINATE EXACT SIZE AND

PIPING REQUIREMENTS WITH HEATER MANUFACTURER. 9. 8" COMBUSTION AIR VENT (METAL) DOWN FROM ROOF. CONNECT TO COMBUSTION FLUE DISCHARGE ON POOL WATER HEATER AS SHOWN. PROVIDE 3/4" CONDENSATE DRAIN WITH P-TRAP AT BOTTOM OF DISCHARGE TEE. ROUTE

STORM PIPING SYSTEM. REFER TO PLUMBING DRAWINGS FOR MORE

10. 6" OUTSIDE AIR INTAKE (PVC) DOWN FROM ROOF. CONNECT TO DIRECT AIR INTAKE ON GAS WATER HEATER AS SHOWN. PROVIDE A 3/4" CONDENSATE DRAIN WITH A LOOP TRAP AT THE BOTTOM OF THE INTAKE PIPING AND NEAR THE WATER HEATER. ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. COORDINATE EXACT SIZE AND PIPING REQUIREMENTS WITH HEATER

CONDENSATE PIPING TO NEAREST FLOOR DRAIN AS SHOWN. COORDINATE EXACT SIZE AND PIPING REQUIREMENTS WITH HEATER MANUFACTURER.

11. 6" COMBUSTION AIR VENT (PVC) DOWN FROM ROOF. CONNECT TO COMBUSTION FLUE DISCHARGE ON GAS WATER HEATER AS SHOWN. COORDINATE EXACT SIZE AND PIPING REQUIREMENTS WITH HEATER

12. ROUTE 1/2" CONDENSATE DRAIN FROM GAS WATER HEATER TO NEAREST FLOOR DRAIN AS SHOWN. WATER HEATER HAS A BUILT-IN CONDENSATE TRAP. CONDENSATE DRAIN SHALL BE PVC.

13. CONTRACTOR SHALL CONFIRM THAT ANY NEW PIPING IS NOT ROUTED OVER ANY NEW ELECTRICAL PANEL.

14. ALL STRUCTURAL ELEMENTS, DUCTWORK, AIR DEVICES, PIPING, CONDUITS, ETC. WITHIN POOL A112 AND POOL EQUIPMENT A115 SHALL BE PAINTED WITH HIGH QUALITY EPOXY POOL PAINT. COORDINATE EXACT COLOR WITH ARCHITECT.

15. CARBON MONOXIDE DETECTOR WITH AUDIBLE/VISUAL ALARM. INTERLOCK ALARM WITH GAS WATER HEATER TO SHUT DOWN EQUIPMENT UPON ACTIVATION OF ALARM. PROVIDE SOLENOID VALVE ON GAS PIPING AT MAIN TO SHUT OFF GAS TO EQUIPMENT UPON ACTIVATION OF ALARM.



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Seal & Signature:

Project Name:

JACKSON PHYSICAL

Project Number: 24011 Project Location: 3030 Hospital Drive

Marianna, FL 32446

Issue Date: 4/17/25

CONSTRUCTION DOCUMENTS

REVISIONS No. Description

PARTITION LEGEND

FOUR HOUR FIRE WALL +++S +++S TWO HOUR FIRE / SMOKE BARRIER TWO HOUR FIRE WALL →S →S →S →S ONE HOUR FIRE / SMOKE BARRIER ◆ ◆ ◆ ◆ ONE HOUR FIRE WALL S S S S

SOUND ATTENUATION BATT (1 HOUR) SOUND ATTENUATION BATT (2 HOUR)

_____ 2 MM _____ LEAD LINED PARTITION (LEAD THICKNESS INDICATED IN MM)

SHAFT WALL ASSEMBLY (RATING WITHIN WALL) SHAFT WALL ASSEMBLY (RATING WITHIN WALL) (2 HOUR) **LEAD LINED PARTITION** (LEAD THICKNESS INDICATED IN MM)

FOUR HOUR FIRE / SMOKE BARRIER

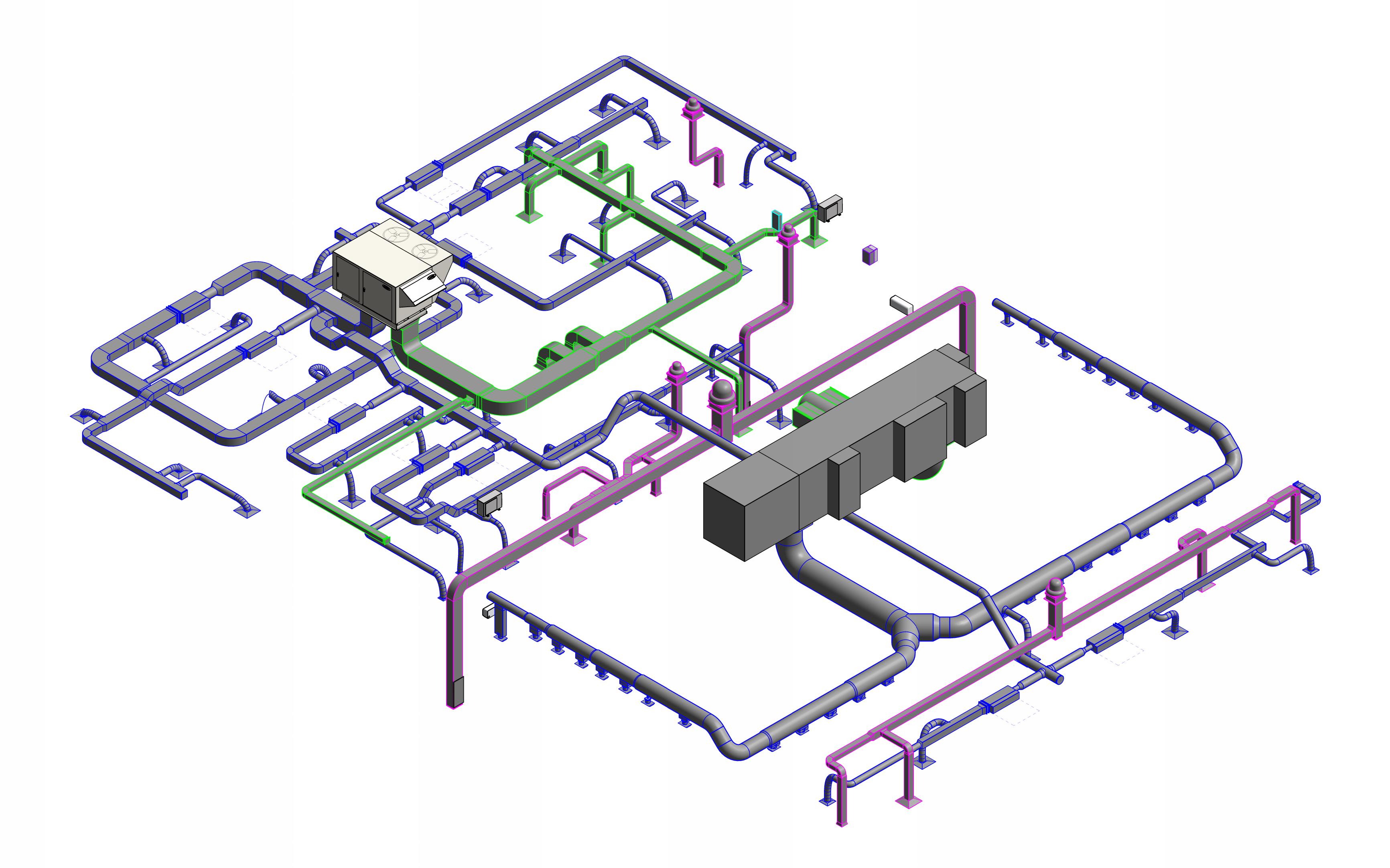
SMOKE PARTITION TO DECK

NON-RATED PARTITION

Drawing Title: HVAC CONTROLS & PIPING FIRST FLOOR PLAN

M210

Drawing Number:



HVAC ISOMETRIC DIAGRAM

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Seal & Signature:

Project Name:

JACKSON PHYSICAL THERAPY CENTER

Project Number: 24011 Project Location: 3030 Hospital Drive Marianna, FL 32446

CONSTRUCTION DOCUMENTS Issue Date: 4/17/25

No. Description

HVAC ISOMETRIC PLAN

Drawing Number: **M600**

Checked by: Checker

			T
DUCTLESS HEAT PUMP UNI	T SCHEDULE		SCHEDULE NOTES:
INDOOR UNIT	AC-IT	AC-EQUIP	1. PROVIDE UNIT WITH WALL MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT.
AREA SERVED	IT CLOSET A111	POOL EQUIP A116	
MANUFACTURER	GREE	GREE	2. PROVIDE UNIT WITH SINGLE POINT ELECTRICAL CONNECTION AT OUTDOOR
MODEL NO.	3VIR12HP230V1BH	3VIR12HP230V1BH	UNIT. ELECTRICAL CONTRACTOR TO RUN POWER FROM OUTDOOR
TYPE	WALL-MOUNTED	WALL-MOUNTED	UNIT TO INTERIOR UNIT AS REQUIRED BY MANUFACTURER.
TOTAL CFM (MAX.)	424	424	
O.A. CFM	0	0	3. CONDENSATE PUMP WITH OVERFLOW PROTECTION. COORDINATE POWER.
ELECTRICAL (V/PH/HZ)	THRU OUTDOOR UNIT	THRU OUTDOOR UNIT	
FAN POWER (W)	15	15	4. REFRIGERANT TYPE R410A.
DIMENSIONS LxWxH (IN.)	33 x 8 x 12	33 x 8 x 12	
WEIGHT (LB)	21	21	5. UNIT PERFORMANCE SHALL MEET MINIMUM ENERGY EFFICIENCY
OUTDOOR UNIT	HP-IT	HP-EQUIP	REQUIREMENTS OF ASHRAE 90.1.
MODEL NO.	3VIR12HP230V1BO	3VIR12HP230V1BO	
HEATING CAP. @17°F BTUH	7,000	7,000	6. WASHABLE FILTER.
HSPF2	9.0	9.0	
COOL CAP TOTAL BTUH	12,000	12,000	7. PROVIDE WALL BRACKET FOR MOUNTING OF INDOOR UNIT.
COOL CAP SENSIBLE BTUH	9,360	9,360	
ENERGY EFFICIENCY (SEER2)	24.0	24.0	8. OUTDOOR UNIT SHALL BE ATTACHED TO ALUMINUM EQUIPMENT STAND PER
O.A.D.B. °F	95	95	MANUFACTUER DETAILS IN COMPLIANCE WITH FBC WINDLOAD REQUIREMENTS.
MAX. LINE SET LENGTH (FT)	66	66	
LINE SET SIZE: LIQUID - GAS (IN.)	1/4 - 1/2	1/4 - 1/2	9. PROVIDE OUTDOOR UNIT WITH NEMA-3R DISCONNECT SWITCH. PROVIDE
ELECTRICAL (V/PH/HZ)	208/1/60	208/1/60	INDOOR UNIT WITH TOGGLE DISCONNECT SWITCH.
MCA (AMPS)	10	10	
MAX FUSE (AMPS)	15	15	10. VERIFY REFRIGERANT LINE SIZE WITH MANUFACTURER PER FINAL
DIMENSIONS LxWxH (IN.)	32 x 14 x 22	32 x 14 x 22	REFRIGERANT RUN. SUCTION AND LIQUID LINES ARE TO BE INSULATED.
WEIGHT (LB)	71	71	

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				AIR	RTERMINAL	SCHEDULE		
SYMBOL	ADAPTER / NECK SIZE	FACE SIZE	MAX CFM	MAX NC	MAX SP	THROW	RUNOUT SIZE	MANUFACTURER/MODEL NO.
EAA	6"x6"	8"x8"	75	28	.04		6"Ø/8"x4"	TITUS 50-F WITH EGG-CRATE CORE
EB	8"x8"	24"x24"	200	28	.05		8"Ø/10"x6"	TITUS 50-F WITH EGG-CRATE CORE
EBB	8"x8"	10"x10"	200	28	.05		8"Ø/10"x6"	TITUS 50-F WITH EGG-CRATE CORE
ESK	16"x38"	16"x38"	1000	24		45° DEFLECTION	16"x38"	TITUS 4FL
ESP	10"x10"	10"x10"	360	20		35° DEFLECTION	10"x10"	TITUS 350FL
RA	6"x6"	24"x24"	75	28	.04		6"Ø/8"x4"	TITUS 50-F WITH EGG-CRATE CORE
RB	8"x8"	24"x24"	200	28	.05		8"Ø/10"x6"	TITUS 50-F WITH EGG-CRATE CORE
RC	10"x10"	24"x24"	300	27	.05		10"Ø/14"x6"	TITUS 50-F WITH EGG-CRATE CORE
RG	22"x22"	24"x24"	1600	25	.06		18"Ø/24"x12"	TITUS 50-F WITH EGG-CRATE CORE
RSA	8"x6"	8"x6"	180	25		35° DEFLECTION	8"x6"	TITUS 350FL
RSQ	42"x24"	42"x24"	4000	26		35° DEFLECTION	42"x24"	TITUS 350FL
SA	6"Ø/6"x6"	24"x24"	75	20	.07	4-WAY BLOW	6"Ø/8"x4"	TITUS TDC
SAA	6"Ø/6"x6"	12"x12"	75	20	.07	4-WAY BLOW	6"Ø/8"x4"	TITUS TDC
SB	8"Ø/9"x9"	24"x24"	230	20	.07	4-WAY BLOW	8"Ø/10"x6"	TITUS TDC
SBB	8"Ø/9"x9"	15"x15"	230	20	.07	4-WAY BLOW	8"Ø/10"x6"	TITUS TDC
SEF	6"Ø/6"x6"	12"x12"	75	20	.07		6"Ø/8"x4"	TITUS 50-F WITH EGG-CRATE CORE
SEG	8"Ø/9"x9"	10"x10"	200	28	.05		8"Ø/10"x6"	TITUS 50-F WITH EGG-CRATE CORE
SSA	8"x6"	8"x6"	180	21		22.5° DEFLECTION	8"x6"	TITUS 300FL
SST	14"x6"	14"x6"	300	20	.07	22.5° DEFLECTION	14"x6"	TITUS 300FL

AIR TERMINAL	. PERFORMANCE NOTES:

- 1. CONTRACTOR TO USE DUCT SPIN-IN FITTINGS WITH MANUAL VOLUME DAMPER EQUIVALENT TO GENFLEX MODEL SM-2DEL OR APPROVED EQUIVALENT.
- 2. FACE SIZE FOR CEILING MOUNTED AIR TERMINALS SHALL BE 24"x24" IN ALL LAY IN CEILING LOCATIONS TO FIT WITHIN GRIDS UNLESS OTHERWISE SPECIFIED.
- 3. FOR HARD CEILING APPLICATIONS, FACE SIZE SHALL EQUAL NECK SIZE. COORDINATE WITH ARCHITECTURAL CEILING PLAN.

MECHANICAL SYSTEMS SUMMARY SHEET

12/3/24 3:44 PM

AREA	AREA	OCCUF	PANCY	VENTILATIO	ON RATE	Zone Air
DESCRIPTION	, u (<u>_</u> , t			CFM/PERSON	CFM/SF	Effectiveness
	SF	1000 SQ FT			21 11, 21	Ez
RTU-1						
OFFICE SPACE	1137	5	6	5	0.06	0.8
BREAKROOM (OFFICE)	180	50	9	5	0.12	0.8
CORRIDOR	458	0	0	0	0.06	0.8
OCCUPIABLE STORAGE FOR DRY MATERIALS	212	2	1	5	0.06	0.8
RECEPTION AREAS	291	30	9	5	0.06	0.8
PHYSICAL THERAPY EXERCISE AREA	1566	7	11	20	0.18	0.8
PHYSICAL THERAPY INDIVIDUAL ROOM	325	20	7	10	0.06	0.8
		1				TOTAL
RTU-2						
PHYSICAL THERAPEUTIC POOL AREA	2711	0	0	0	0.48	0.8
CORRIDORS	122	0	0	0	0.06	0.8
SPECTATOR AREAS	700	150	10	7.5	0.06	0.8
			I.			TOTAL
	OCCUPA	NCY BASED (ON NET O	CCUPIABLE ARE	A PER DEF	AULT VALUE II
AIR BALANCE SCHEDULE SOURCE	OCCUPA					
AIR BALANCE SCHEDULE	OCCUPA	OUTSIDE A	R (CFM)	CCUPIABLE ARE		
AIR BALANCE SCHEDULE SOURCE	OCCUPA	OUTSIDE A	R (CFM)			
AIR BALANCE SCHEDULE SOURCE RTU-1	OCCUPA	OUTSIDE A	R (CFM)		(CFM)	
AIR BALANCE SCHEDULE SOURCE RTU-1 RTU-2	OCCUPA	OUTSIDE A	R (CFM)	EXHAUST	(CFM)	
AIR BALANCE SCHEDULE SOURCE RTU-1 RTU-2 EF-1.1	OCCUPA	OUTSIDE A	R (CFM)	EXHAUST	(CFM)	
AIR BALANCE SCHEDULE SOURCE RTU-1 RTU-2 EF-1.1 EF-1.2	OCCUPA	OUTSIDE A	R (CFM)	EXHAUST 100 300	(CFM)	AULT VALUE II

MARK RTU2 AREA SERVED POOL A113 COCATION ROOF BACKSESPUED POOL BACKSESPUED BACKSESPUED POOL BACKSESPUED BACKSESPUE	POOL ROOM PACKAGED ROO	FIOP UNIT	SCHEDULE		SCHEDULE NOTES:
AREA SERVED LOCATION ROSE MANUFACTURER SERESCO MODEL MUNIBER CVYT-0199-NBX HELIERS RETURN AIR FILTER				1.	
LICCATION ROOF SERESCO MODEL NUMBER SERESCO MODEL IN GY-219-NB-X SERESCO MODEL NUMBER CWT-019-NB-X SERESCO MODEL IN GY-219 SER	MARK		RTU-2		SYSTEM WITH ENERGY RECOVERY FEATURES DESIGNED FOR NATATORIUM
MODEL NUMBER CWT-019-NB-X SERESCO MODEL # NG-V-21) MODEL # NG-V-21 MODEL # NG-V-21) MODEL # NG-V-21 MODEL # N	AREA SERVED		POOL A113		ENVIRONMENT CONTROL. POOL HEATING FEATURES NOT REQUIRED.
MODEL NUMBER FILTERS	LOCATION		ROOF	1 2.	PACKAGED UNIT INCLUDES FACTORY ASSEMBLED OUTDOOR AIR DRY COOLER
MODEL NUMBER #EITERS #EITERS #EITERS #EITER	MANUFACTURER		SERESCO		MODEL # NG-V-21).
SETURA AIR FILTER 2" MERV-8 5. HEAT RECOVERY BY MEANS OF A GLYCOL RUN-APOLIND LOOP BETWEEN THE OUTSIDE AIR FILTER 2" MERV-13 6. CONVENIENCE OUTLET AND LIGHT FACTORY MOUNTED IN CONTROL CABINET. SUPPLY FAIN SUPPLY FAIN MOTOR (EACH) HP 5 STREAM. STREAMS. SUPPLY FAIN MOTOR (EACH) HP 5 STREAM. SUPPLY FAIN MOTOR (EACH) HP 5 STREAM. SUPPLY FAIN QUANTITY 2 PURGE-ECONOMIZER AND MINIMUM OUTDOOR AIR CONNECTIONS WITH MOTORIZED DAMPERS AND CONTROLLER WITH REMOTE INTERNET LOGGING AND PARAMETER ADJUSTMENT. STREAM. SUPPLY FAIN QUANTITY 2 PURGE-ECONOMIZER AND MINIMUM OUTDOOR AIR CONNECTIONS WITH MOTORIZED DAMPERS AND CONTROLLS. STREAM. STREAM. SUPPLY FAIN QUANTITY 2 PURGE-ECONOMIZER AND MINIMUM OUTDOOR AIR CONNECTIONS WITH MOTORIZED DAMPERS AND CONTROLLS. STREAM. STREAM. SUPPLY FAIN QUANTITY 2 PURGE-ECONOMIZER AND MINIMUM OUTDOOR AIR CONNECTIONS WITH MOTORIZED DAMPERS AND CONTROLLS. STREAM. S	MODEL NUMBER			∃ 3.	ELECTRIC HEAT WITH SINGLE POINT CONNECTION.
OUTSIDE AIR FILTER — 2"MERV-13 SUPPLY FAN SUPPLY AIR OUTSIDE AIR SUPPLY FAN OUTSIDE AIR EXTERNAL STATIC PRESSURE IN. WTR 1.0 SUPPLY FAN MOTOR (EACH) EXTERNAL STATIC PRESSURE IN. WTR 1.0 SUPPLY FAN MOTOR (EACH) EXTERNAL STATIC PRESSURE IN. WTR 1.0 SUPPLY FAN MOTOR (EACH) HP 5 SUPPLY FAN MOTOR (EACH) MBH 136.40 11. DOUBLE WALL CONSTRUCTION WITH 2' INSULATION. SENSIBLE CAPACITY (GROSS) MBH 136.40 11. DOUBLE WALL CONSTRUCTION WITH 2' INSULATION. SENSIBLE CAPACITY (EROSS) MBH 136.40 11. DOUBLE WALL CONSTRUCTION WITH 2' INSULATION. 12. PRE-FILTERS UPSTREAM OF COOLING COIL, FILTERS SHALL MEET THE EQUIVALE MERY RATING WHEN TESTED LOCORDANCE WITH ASHRAE 52.2 DESIGN DINCCUPIED HUMIDITY WRH 60 CONTROLS CONTRACTOR AS NEEDED, PROVIDE CLEAN AND DIRTY INDICATORS. REFRIGERANT TYPE HEATING HEATING HEATING HEATING CONTROLS CONTRACTOR SHALL PROVIDE CONDENSATE OVERFLOW FOR EACH DRAIN PAN. STAGES SCR 17. KMAW 35 SCR 18. MOTOR 25 SCR 19. SINGLE POINT 19. SINGLE POINT 20. WALL PROVIDE CONDENSATE OVERFLOW FOR EACH DRAIN PAN. SEALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FBC WINDLOAD CALCULATIONS WITH SIGNED AND SEALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FBC WINDLOAD CALCULATIONS WITH SIGNED AND SEALED STRUCTURAL DETAILS FOR EQUIPMENT THE DOWN ON SETTING. 20. WALL AND STREAMS. 21. VERTICAL STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FBC WINDLOAD CALCULATIONS WITH SIGNED AND SEALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FBC WINDLOAD CALCULATIONS STRUM PAN. SEALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FBC WINDLOAD CALCULATIONS STRUM PAN. SEALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FBC WINDLOAD CALCULATIONS STRUM	FILTERS			4.	PACKAGED MINIMUM EXHAUST FAN AND PURGE FAN WITH ECONOMIZER MODE.
EXHAUST AIR FILTER — 2" MERV-13 SUPPLY FAN SUPPLY FAN SUPPLY FAN SUPPLY AIR CFM	RETURN AIR FILTER		2" MERV-8	⁻ 5.	HEAT RECOVERY BY MEANS OF A GLYCOL RUN-AROUND LOOP BETWEEN THE
SUPPLY FAIN CFM 0,200 OUTSIDE AIR CFM 1,825 EXTERNAL STATIC PRESSURE IN. WIR 1.0 SUPPLY FAIN QUANTITY	OUTSIDE AIR FILTER		2" MERV-13		MINIMUM EXHAUST AND MINIMUM OUTDOOR AIR STREAMS.
SUPPLY FAIN OUTSIDE AIR CFM 1,225 SUPPLY AIR CFM 1,225 EXTERNAL STATIC PRESSURE IN. WTR 1,0 SUPPLY FAIN QUANTITY	EXHAUST AIR FILTER			6.	CONVENIENCE OUTLET AND LIGHT FACTORY MOUNTED IN CONTROL CABINET.
OUTSIDE AIR OTTSIDE AIR OUTSIDE AIR OTTSIDE AIR OUTSIDE AIR OUTSIDE AIR IN WITR IN WORDH IN WITR IN WORDH IN WITR IN WORDH IN WITR IN WITR IN WITR IN WORDH IN WORDH IN WITR IN WORDH IN WORDH IN WITR IN WORDH IN WITR IN WORDH IN WORDH IN WITR IN WORDH IN WITR IN WORDH IN WORDH IN WITR IN WORDH IN WORDH IN WORDH IN WITR IN WORDH IN WORD	SUPPLY FAN				POWERED AND WIRED SEPARATELY.
OUTSIDE AIR CFM 1,925 SXTERNAL STATIC PRESSURE IN. WTR 10 SUPPLY FAN MOTOR (EACH) HP 5 SUPPLY FAN MOTOR (EACH) HP 5 SUPPLY FAN MOTOR (EACH) MP 5 SUPPLY FAN MOTOR (EACH) MP 5 SUPPLY FAN MOTOR (EACH) MP 5 SUPPLY FAN QUANTITY 2 9 PURGE/ECONOMIZER AND MINIMUM OUTDOOR AIR CONNECTIONS WITH COOLING COOLING COOLING CAPACITY (GROSS) MBH 253.30 10. TWO-STAGE COMPRESSOR FOR CAPACITY MODULATION. SENSIBLE CAPACITY (GROSS) MBH 136.40 11. DOUBLE WALL CONSTRUCTION WITH 2" INSULATION. MOISTURE REMOVAL CAPACITY BESIGN OCCUPIED HUMDITY *FF 82 13. MINIMUM 16* HIGH INSULATED IN ACCORDANCE WITH ASHRAE 52.2 DESIGN OCCUPIED HUMDITY *KRH 60 REFRIGERANT TYPE R454B SCR 15. COMPOUND SLOPED, BAKED POWDER PAINT COATED ALUMINUM DRAIN PAN FOR EACH EVAPORATOR COIL. *HEATING HEATING MCA AMPS 272 MCA AMPS 300 19. SINGLE POINT 20. BOSTOON STRUCTION WITH SPIRING ISOLATED FAN AND MOTOR SECTION WITH AUTOMATION SYSTEM. POWER MCA AMPS 300 19. SINGLE POINT 20. BOSTOON SERVICE ON STRUCTION IN THE PRINTING SINGLADE ON THE RETURN AIR FILTER. RELAYS BY CONTRACTOR AS NEEDED. PROVIDE CLEAN AND DIRTY HIDICATORS. COMPOUND SLOPED, BAKED POWDER PAINT COATED ALUMINUM DRAIN PAN FOR EACH EVAPORATOR COIL. **MANUFACTURER SHALL PROVIDE WINDLOAD CALCULATIONS WITH SIGNED AND SALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN COMPLIANCE WITH FIRE WINDLOAD REQUIREMENTS. MCCP AMPS 300 19. SINGLE POINT NORMAL **WALL PROVIDE WINDLOAD REQUIREMENTS. **WALL PROVIDE WINDLOAD REQUIREMENTS. **WALL SUPPLY FAN SECTION WITH SPIRING ISOLATED FAN AND MOTOR SECTION FOR CHANGES TO CONSTRUCTION AND EVERAL ON THE REMAINS. **STAGES CONTRACTOR SERVICE FOR CONNECTION WITH SPIRING ISOLATED FAN AND MOTOR SECTION FINE SERVICE FAIL SECTION WITH SPIRING ISOLATED FAN AND MOTOR SECTION FINE SECTION WITH SPIRING SALED FAN AND MOTOR SECTION FINE SECTION WITH SPIRING SALED FAN AND MOTOR SECTION FINE SECTION WARRANTY, 1-YEAR LA	SUPPLY AIR	CFM	8.200	[⊢] 7.	PROGRAMMABLE MICROPROCESSER CONTROLLER WITH REMOTE INTERNET
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SCCR KA 65 POWER. CONTROL CONNECTION TYPE CONNECTION QUANTITY SINGLE POINT POWER TYPE PHYSICAL DATA UNIT DIMENSIONS LXWXH OP. WEIGHT (EXCL. CURB) LBS 9,500 KA 65 POWER. 20. BOTTOM DISCHARGE AND BOTTOM INTAKE. 21. VERTICAL SUPPLY FAN SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION WITH SPRING IS				10	
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CONNECTION TYPE VFD / DISC. CONNECTION QUANTITY SINGLE POINT POWER TYPE NORMAL PHYSICAL DATA UNIT DIMENSIONS LXWXH OP. WEIGHT (EXCL. CURB) LBS 9,500 21. VERTICAL SUPPLY FAN SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION FAN AND MOTOR SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION WITH SPRING ISOLATED FAN AND MOTOR SECTION FAN AND MOTOR SECTION SPECIFICATION SPACE ISOLATED FAN AND MOTOR SECTION SPECIFICATION SPACE ISOLATED FAN AND MOTOR SECTION SPECIFICATION SHALL BE NOTED IN THE SECTION SHALL BE NOTED IN THE SE		IV 1		20	
CONNECTION QUANTITY SINGLE POINT POWER TYPE NORMAL PHYSICAL DATA UNIT DIMENSIONS LXWXH IN. 408 x 72 x 84 OP. WEIGHT (EXCL. CURB) LBS 9,500 22. WALL MOUNTED PROGRAMMABLE CONTROLLER WITH HUMIDITY CONTROL AND SETBACK. INTERFACE FOR CONNECTION TO BUILDING AUTOMATION SYSTEM. 23. FACTORY AUTHORIZED START-UP AND OWNER TRAINING. 24. 2-YEAR ENTIRE SYSTEM WARRANTY, 1-YEAR LABOR WARRANTY, AND 5-YEAR COMPRESSOR WARRANTY. 25. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF DESIGN THE IMPACT ELECTRICAL OR STRUCTRUAL INCLUDING COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIFICATION SHALL BE NOTED IN THE					
POWER TYPE NORMAL PHYSICAL DATA UNIT DIMENSIONS LXWXH IN. 408 x 72 x 84 OP. WEIGHT (EXCL. CURB) LBS 9,500 24. 2-YEAR ENTIRE SYSTEM WARRANTY, 1-YEAR LABOR WARRANTY, AND 5-YEAR COMPRESSOR WARRANTY. 25. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF DESIGN THIMPACT ELECTRICAL OR STRUCTRUAL INCLUDING COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIF 26. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED IN THE					
PHYSICAL DATA UNIT DIMENSIONS LXWXH IN. 408 x 72 x 84 OP. WEIGHT (EXCL. CURB) LBS 9,500 23. FACTORY AUTHORIZED START-UP AND OWNER TRAINING. 24. 2-YEAR ENTIRE SYSTEM WARRANTY, 1-YEAR LABOR WARRANTY, AND 5-YEAR COMPRESSOR WARRANTY. 25. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF DESIGN THE IMPACT ELECTRICAL OR STRUCTRUAL INCLUDING COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIF 26. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED IN THE	*			- ~	
UNIT DIMENSIONS LxWxH IN. 408 x 72 x 84 OP. WEIGHT (EXCL. CURB) LBS 9,500 COMPRESSOR WARRANTY. 24. 2-YEAR ENTIRE SYSTEM WARRANTY, 1-YEAR LABOR WARRANTY, AND 5-YEAR COMPRESSOR WARRANTY. 25. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF DESIGN THE IMPACT ELECTRICAL OR STRUCTRUAL INCLUDING COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIFM 26. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED IN THE			INUINIAL	72	
OP. WEIGHT (EXCL. CURB) LBS 9,500 COMPRESSOR WARRANTY. 25. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF DESIGN TH IMPACT ELECTRICAL OR STRUCTRUAL INCLUDING COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIF 26. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED IN THE		IN	108 v 72 v 81		
25. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF DESIGN THE IMPACT ELECTRICAL OR STRUCTRUAL INCLUDING COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIPMENTS AS A RESULT OF ALTERNATIVE EQUIPMENT AS A RESULT OF A R				⊢ ^{∠4.}	·
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CHANGES TO CONSTRUCTION DOCUMENTS AS A RESULT OF ALTERNATIVE EQUIP 26. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED IN THE				⊣ ∠ე.	
26. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED IN THE				_	
				00	
I ALIENVETAL BACALICE				26.	SUBMITTAL PACAKGE.

MARK		RTU-1	[─] 1.
AREA SERVED		PT & LOCKERS	
LOCATION		ROOF	2.
MANUFACTURER		AAON	3.
MODEL NUMBER		RNA-020	4.
FILTERS			5.
PRE-FILTER TYPE 1		2" MERV-8	6.
PRESSURE DROP CLEAN	IN. WTR	0.1	7.
PRESSURE DROP DIRTY	IN. WTR	0.22	8.
PRE-FILTER TYPE 2		4" MERV-13	
PRESSURE DROP CLEAN	IN. WTR	0.2	9.
PRESSURE DROP DIRTY	IN. WTR	0.42	
SUPPLY FAN			
SUPPLY AIR	CFM	5,320	10.
OUTSIDE AIR	CFM	1,475	11.
EXTERNAL STATIC PRESSURE	IN. WTR	1.75	\neg
SUPPLY FAN MOTOR	HP/BHP	5.0 / 3.75	
SUPPLY FAN SPEED	RPM	1270	12
COOLING			13.
COOLING CAPACITY (NET)	MBH	232.50	14.
SENSIBLE CAPACITY (NET)	MBH	150.20	15.
COOLING COIL	ROWS/FINS	4 / 14	
MAX. FACE VELOCITY	FPM	450	
ENT. AIR TEMP. DB/WB	°F/°F	81.3 / 68.0	16
LVG. AIR TEMP. DB/WB (COIL)	°F/°F	53.0 / 52.6	
CONDENSER AMBIENT TEMP.	°F	95	
EACH CONDENSER FAN MTR	HP	1	
QUANTITY		2	17.
MINIMUM EER/IEER	BTUH/W	11.8 / 15.0	18
HEATING			
HEATING CAPACITY	KW	NONE	19.
STAGES		-	
HOT GAS REHEAT			
HGR CAPACITY	MBH	124.9	
LVG. AIR TEMP. DB/WB (COIL)	°F/°F	75.0 / 61.1	20
ELECTRICAL DATA			
ELECTRICAL	V/HZ/PH	208/60/3	
MCA	AMPS	89	
MOCP	AMPS	110	\dashv
SCCR	kA	10	
CONTROL		FACTORY	\dashv
CONNECTION TYPE		VFD / DISC.	\dashv
CONNECTION QUANTITY		SINGLE POINT	\dashv
POWER TYPE		NORMAL	\dashv
PHYSICAL DATA			21
UNIT DIMENSIONS LxWxH	IN.	138 x 101 x 59	22
OP. WEIGHT (EXCL. CURB)	LBS	2,679	23
(2.102.00.12)		2,010	-
			24
			⊣- ′′

ROOFTOP UI	NIT SCHEDI	JLE	SCHEDULE NOTES:
		RTU-1	1. 1X DIGITAL SCROLL COMPRESSOR + 1X 2-STAGE COMPRESSOR FOR CAPACITY
		PT & LOCKERS	MODULATION.
		ROOF	2. STAINLESS STEEL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH.
		AAON	3. DOUBLE WALL CONSTRUCTION WITH MINIMUM R-13 INSULATION.
		RNA-020	4. PHASE AND BROWN OUT PROTECTION.
			5. 5 MIN TIME DELAY RELAY & 20 SEC TIME DELAY RELAY.
1		2" MERV-8	6. CONDENSER FAN CYCLING FOR LOW AMBIENT CONTROL.
P CLEAN	IN. WTR	0.1	7. UNIT MOUNTED SUPPLY FAN VFD WITH BYPASS.
P DIRTY	IN. WTR	0.22	8. INTAKE HOOD WITH 1/2" METAL MESH SCREEN. FULLY MODULATING MOTORIZED
2		4" MERV-13	OA DAMPER INTERLOCKED WITH SUPPLY FAN. PROVIDE WITH OA DAMPER CONTROL.
P CLEAN	IN. WTR	0.2	9. MINIMUM 16" HIGH INSULATED ROOF CURB SUCH THAT OA INTAKE
P DIRTY	IN. WTR	0.42	IS MINIMUM OF 36" ABOVE FINISHED ROOF. ROOF CURB SHALL INCLUDE KINETICS
			KIP RT RAILS FOR VIBRATION ISOLATION. COORDINATE CURB WITH ROOF PITCH.
	CFM	5,320	10. PRE-FILTERS UPSTREAM OF COOLING COIL.
	CFM	1,475	11. FILTER SECTION WITH UNIT MOUNTED MAGNEHELIC GAUGE WITH
C PRESSURE	IN. WTR	1.75	OUTPUT TO BAS. RELAYS BY CONTROLS CONTRACTOR AS NEEDED.
OR	HP/BHP	5.0 / 3.75	PROVIDE "CLEAN" AND "DIRTY" INDICATORS.
ED	RPM	1270	12. CONDENSER HAIL GUARD AND ECM CONDENSER FAN HEAD PRESSURE CONTROL.
			13. NEMA 3R DISCONNECT BY DIVISION 26.
TY (NET)	MBH	232.50	14. BOTTOM SUPPLY, BOTTOM RETURN.
ITY (NET)	MBH	150.20	15. MANUFACTURER SHALL PROVIDE WINDLOAD CALCULATIONS WITH SIGNED
	ROWS/FINS	4 / 14	AND SEALED STRUCTURAL DETAILS FOR EQUIPMENT TIE-DOWN IN
CITY	FPM	450	COMPLIANCE WITH FBC WINDLOAD REQUIREMENTS.
B/WB	°F/°F	81.3 / 68.0	16. CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM BASIS OF
B/WB (COIL)	°F/°F	53.0 / 52.6	DESIGN THAT IMPACT ELECTRICAL OR STRUCTURAL INCLUDING
BIENT TEMP.	°F	95	COMPENSATION TO EOR FOR CHANGES TO CONSTRUCTION DOCUMENTS
ER FAN MTR	HP	1	AS A RESULT OF ALTERNATE MANUFACTURERS.
		2	17. 115V FACTORY WIRED CONVENIENCE OUTLET.
:R	BTUH/W	11.8 / 15.0	18. SINGLE POINT POWER WITH AUTOMATIC RESTART OF CONDENSERS AFTER
			LOSS OF POWER.
TY	KW	NONE	19. MANUFACTURER TO PROVIDE LINE REACTOR OR OTHER PROTECTIVE
		-	DEVICES TO MEET THE AVAILABLE FAULT CURRENT INDICATED ON THE
Ī			ELECTRICAL DRAWINGS. IN THE EVENT INFORMATION IS NOT PROVIDED,
	MBH	124.9	ASSUME 10,000 AIC.
B/WB (COIL)	°F/°F	75.0 / 61.1	20. UNIT CONTROLLER SHALL INCLUDE:
Ά			LCD DISPLAY WITH USER INTERFACE
	V/HZ/PH	208/60/3	DIGITAL COMPRESSOR MODULATION AND COMPRESSOR STAGING
	AMPS	89	OUTDOOR AIR MONITORING AND OUTDOOR AIR DAMPER CONTROL
	AMPS	110	HUMIDITY SENSOR POLLING TO CREATE HIGHEST PRIORITY FOR SYSTEM
	kA	10	ADAPTIVE SUPPLY AIR TEMPERATURE RESET BASED ON RETURN AIR TEMP.
		FACTORY	FAN PROVING INTERLOCK
PE		VFD / DISC.	DIRTY FILTER ALARM (TWO LOCATIONS FOR UNITS WITH FINAL FILTERS)
ANTITY		SINGLE POINT	EMERGENCY SHUTDOWN INPUT (SMOKE DETECTOR, FIRE ALARM)
		NORMAL	VAV UNIT CONTROL.
			21. AIR FLOW MONITORING STATION FOR OUTSIDE AIR FLOW MONITORING.
S LxWxH	IN.	138 x 101 x 59	22. MODULATING HOT GAS REHEAT FOR HUMIDITY CONTROL.
L. CURB)	LBS	2,679	23. FILTERS SHALL MEET THE EQUIVALENT MERV RATING WHEN TESTED IN
			ACCORDANCE WITH ASHRAE 52.2.
			24. ANY DEVIATIONS FROM SCHEDULE OR SPECIFICATION SHALL BE NOTED
			IN THE SUBMITTAL PACKAGE.
_			

VARIABLE AIR VOLUME BOX SCHEDULE WITH ELECTRIC HEAT

12/3/24 2:35 PM

											DC
MARK	B1.1	B1.2	B1.3	B1.4	B1.5	B1.6	B1.7	B1.8	B1.9	B1.10	
AREA SERVED	CURTAIN ROOMS	UTILITY CORR.	ELEC/IT	F. LOCKER	M. LOCKER	WAITING/RECEPTION	PHYSICAL THERAPY	OFFICES/OCC. THERAPY	BREAKROOM	SPEECH THERAPY	TC
AIR CFM - MAX.	300	420	150	400	300	675	1700	450	250	675	1
AIR CFM - MIN.	150	420	100	400	300	450	1100	300	150	350	CC
MAX. UNIT PD IN. WC	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	SE
MIN. INLET SP IN. WC	0.04	0.06	0.01	0.06	0.04	0.04	0.06	0.02	0.01	0.04	CC
ENTERING AIR TEMP °F	55	55	55	55	55	55	55	55	55	55	WI
LEAVING AIR TEMP °F HEAT	75	75	55	90	90	95	80	75	95	95	
HEATING CAPACITY - KW	1	3	NONE	5	3	5	10	2	2	5	DE
STEPS CONTROL	SCR	SCR	N/A	SCR	SCR	SCR	SCR	SCR	SCR	SCR	TH
ELECTRICAL - V/PH	208/3	208/3	N/A	208/3	208/3	208/3	208/3	208/3	208/3	208/3	FE
AMPS	2.77	8.31	0.00	13.85	8.31	13.85	27.70	5.54	5.54	13.85	BE

SCHEDULE NOTES: BASIS OF DESIGN: ENVIRO-TEC MODEL SDR-EH PRESSURE INDEPENDENT DOUBLE WALL CONSTRUCTION W/ 3/4" 4 LB/FT3 INSULATION.

TOP AND BOTTOM ACCESS PLATES.

COORDINATE WITH CONTROL SYSTEM INSTALLER FOR APPROPRIATE SELECTION OF THERMOSTATS AND COORDINATE WITH TEMPERATURE CONTROL SYSTEM FOR DDC OPERATION. CONTROL SYSTEM SUPPLIER WILL PROVIDE DDC CONTROLLERS FOR FACTORY INSTALLATION.

DDC TERMINALS THAT CLOSE THE DAMPER TO AUTOMATICALLY CALIBRATE THE TRANSDUCER SHALL HAVE A METHOD OF DISABLING THE AUTOMATIC FEATURE, MANUALLY COMMANDING A CALIBRATION AND ADJUSTING THE TIME BETWEEN AUTOMATIC RE-CALIBRATIONS OF THE BOX.

WHERE RUNOUT SIZE IS SHOWN ON DRAWING, FOLLOW DRAWING. EQUIVALENT RECTANGULAR DUCT SIZES MAY ALSO BE USED.

PROVIDE NECESSARY CLEARANCE FOR MAINTENANCE.

MARK		EF-1.1	EF-1.2	EF-1.3	EF-2.1	EF-PE
AREA SERVED		TOILET	SOIL LINEN/	M/F LOCKER	POOL ROOM	POOL EQUIP.
		A121	EVS/TLT	ROOMS		A116
AIR QUANTITY	CFM	100	300	650	2000	300
E.S.P.	IN. H20	0.4	0.5	0.5	0.5	0.5
FAN TYPE		CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGA
FAN SPEED	RPM	1185	1424	1548	1169	1424
DRIVE TYPE		DIRECT	DIRECT	DIRECT	BELT	DIRECT
INTERLOCK		RTU-1	NONE	RTU-1	RTU-2	NONE
SOUND CRITERIA	SONES	3.3	8.1	8.9	8.8	8.1
MOTOR POWER	HP	1/8	1/8	1/4	1/2	1/8
ELECTRICAL	V/PH/HZ	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
UNIT LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF
DUCT CONNECTION	IN.	6 x 6	10 x 8	12 x 12	18 x 18	10 x 8
ROOF OPENING	IN.	13.5 x 13.5	13.5 x 13.5	13.5 x 13.5	19.5 x 19.5	13.5 x 13.5
WEIGHT (EXCL. CURB)	LB.	55	57	56	118	57
UNIT MANUFACTURER		COOK	COOK	COOK	COOK	COOK
UNIT MODEL NO.		90C15DL	100C15DL	101C17DEC	165C5B	100C15DL
NOA NUMBER		23-0821.05	23-0821.05	23-0821.05	23-0821.05	23-0821.05
FL PRODUCT APPROVAL NO.		1,2,3	1,2,3	2,3,4	2,3,5	1,2,3

SCHEDULE NOTES:

1. PROVIDE DISCONNECT SWITCH, BACKDRAFT DAMPER, AND FAN SPEED CONTROLLER.

2. ROOF MOUNTED FANS SHALL BE LISTED FOR HIGH WIND APPLICATION WITH MINIMUM 14"H INSULATED ROOF CURB. INSTALL PER MANUFACTURER NOA SECUREMENT DETAILS. COORDINATE WITH ROOF SLOPE WHERE APPLICABLE.

3. INTERLOCKED EXHAUST FANS SHALL BE WIRED SUCH THAT THEY RUN CONTINUOUSLY WITH RESPECTIVE ROOFTOP UNIT AND SHUT DOWN UPON MANUAL OR AUTOMATIC SHUTDOWN OF ASSOCIATED RTU.

4. PROVIDE DISCONNECT SWITCH, BACKDRAFT DAMPER, AND WIRE HARNESS FOR EXTERNAL SIGNAL SPEED CONTROL (0-10V). CONTROL AND TRANSFORMER PROVIDED BY CONTROLS CONTRACTOR.

5. PROVIDE DISCONNECT SWITCH, ALUMINUM BACKDRAFT DAMPER, TEFC MOTOR, AMCA A SPARK RESISTANT CONSTRUCTION (ALL ALUMINUM), ALUMINUM ROOF CURB, AND ALUMINUM BIRD SCREEN.

WALL-MOUNTED LOUVER SCHEDULE

MARK		L-1		
APPLICATION		EXHAUST		
AIR FLOW (DESIGN)	CFM	300		
WIDTH x HEIGHT	IN.	12 x 18		
FREE AREA	SQ. FT	0.46		
THICKNESS	IN.	6		
PRESSURE DROP (MAX)	IN. WG	0.157		
MAX VELOCITY	FPM	800		
MANUFACTURER		GREENHECK		
MODEL		EHH-601D		
NOA#		22-0816		
NOTES:				
1. ALUMINUM HURRICANE LO	DUVER WITH	HORIZONTAL I	BLADES.	
2. PROVIDE WITH 3/4" x 0.050	" ALUMINUI	M BIRD SCREEN	·	

Project Architect:

Mason Blau & Associates

4625 E Bay Drive, #228,

I.C. Thomasson Associates, Inc.

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FLORIDA #54888

ELECTRICAL ENGINEER MANNY CRUZ Jr., P.E. FLORIDA #92000

Seal & Signature:

Project Name:

JACKSON

THERAPY

Project Number: 24011

Project Location:

3030 Hospital Drive

Marianna, FL 32446

Issue Date: 4/17/25

REVISIONS

CONSTRUCTION DOCUMENTS

No. Description Date

CENTER

Clearwater, FL 33764

AR0013034 T: 727.530.0570

Drawing Title: MECHANICAL SCHEDULES

M700

Drawn by: OA Scale: 1" = 1'-0"

(IN LIEU OF CALCULATIONS AS PERMITTED BY C403.2.1 EXCEPT JACKSON PHYSICAL THERAPY CENTE PROJECT OWNER: JACKSON HOSPITAL PROJECT ADDRESS: 3035 Hospital Dr. Marianna, Florida 32446 (CLIMATE ZONE 2A) TOTAL AREA: DESIGN CRITERIA OUTDOOR AIR SUMMER TEMP DB/WB 96.5/75.8 °F OUTDOOR AIR WINTER TEMP DB/WB 28.0 °F POOL ROOM INDOOR AIR TEMP DB INDOOR HUMIDITY ALL OTHER AREAS INDOOR AIR TEMP DB INDOOR HUMIDITY LIGHTING BUILDING ENVELOPE WALL: STUCCO+8"CMU+ 2.5" INS+GYP ROOF: METAL DECK + R-30 INS. ABOVE DECK R- 30 WINDOW, INSULATED TINTED GLASS WINDOW SOLAR HEAT GAIN COEFFICIENT SHGC- 0.2 OPAQUE DOOR ENVELOPE DESIGN CONDITIONS ARE FOR REFERENCE ONLY. TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING CONSTRU SIZING METHOD ASHRAE COMPUTER PROGRAM + SUPPLEMENTAL CALCULATIONS TOTAL COOLING REQUIRED WITH OUTSIDE AIR 520,400 BTUH TOTAL SENSIBLE GAIN 316,020 BTUH TOTAL LATENT GAIN 204,380 BTUH TOTAL GRAINS WATER (DIFFERENCE) 20.6 GRAINS HEATING 76.0 KW TOTAL HEATING REQUIRED WITH OUTSIDE AIR 259,388 BTUH REFER TO EQUIPMENT SCHEDULES FOR SPECIFIC ZONE COOLING

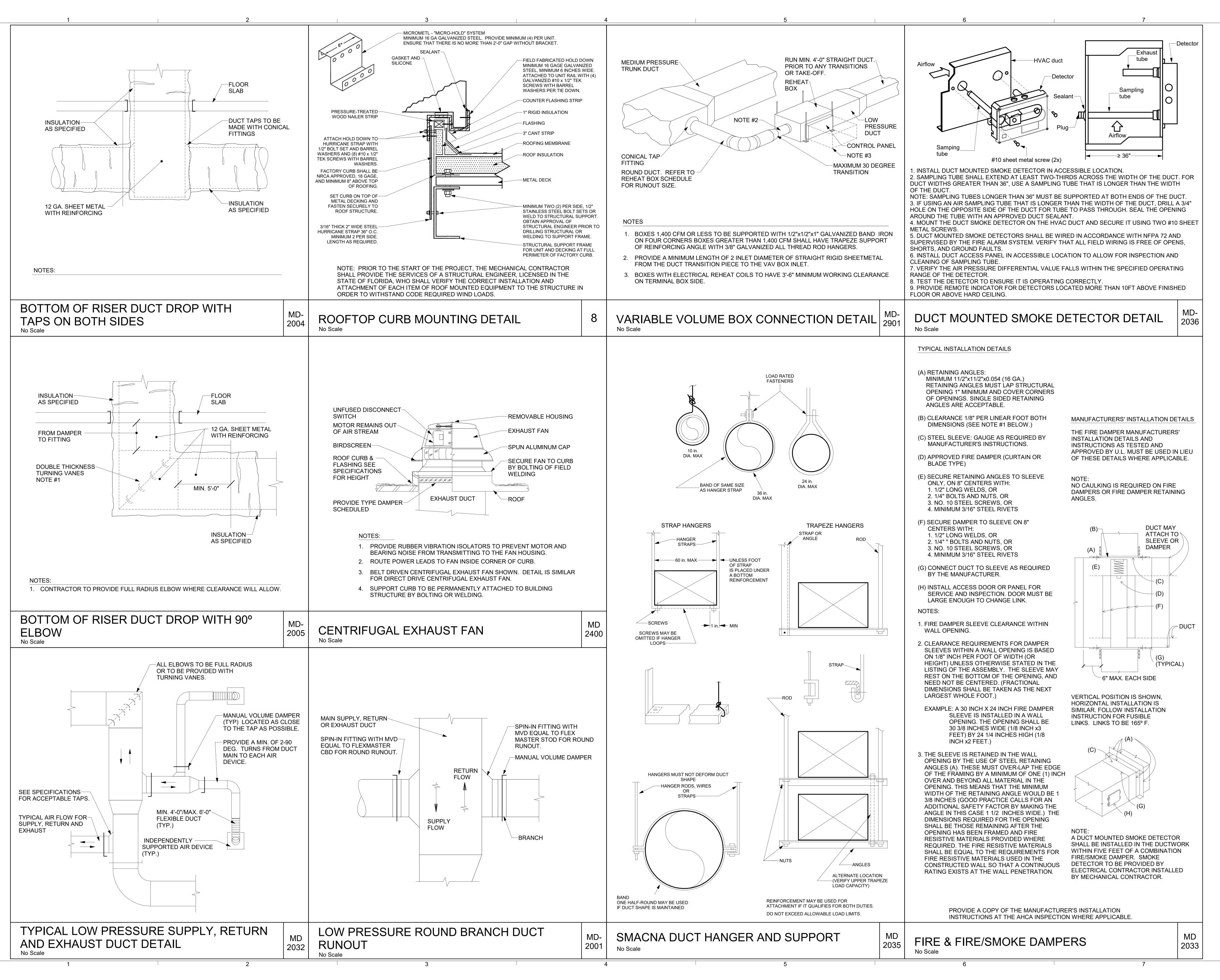
ΓΙΟΝ AIR DESIGN CFM 1475 1825 E 403.3.1.1

3. NOA RATED, WIND RATED, AMCA 540/550 LOUVER. 4. SUBMIT FACTORY COLOR CHART TO ARCHITECT FOR FINISH COLOR. 5. PROVIDE WITH VCD-40 DAMPER TO MAINTAIN AMCA 550 RATING.

3/6/25 4:04 PM

Drawing Number:

Checked by: Checker



Project Architect:

MBA

Mason Blau & Associates 4625 E Bay Drive, #228, Clearwater, FL 33764 AR0013034 T: 727.530.0570

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ICT PROJECT NO. 240626.00
FIRM CERTIFICATE OF AUTHORIZATION
FLORIDA REG. #CA-0001276
MECHANICAL ENGINEER
DAN A. NESMAN, P.E.
FLORIDA #54888
ELECTRICAL ENGINEER

MANNY CRUZ Jr., P.E. FLORIDA #92000 Seal & Signature:

Project Name:

JACKSON PHYSICAL THERAPY CENTER

Project Number: 24011
Project Location:

3030 Hospital Drive

Marianna, FL 32446

Issue Date: 4/17/25

CONSTRUCTION DOCUMENTS

REVISIONS

No. Description Date

Drawing Title:

MECHANICAL

DETAILS

M800

Drawing Number:

24 INCHES (60 cm) MINIMUM HEIGHT ABOVE

VERTICAL TERMINATION INSTALLATION

1. DETERMINE THE LOCATION FOR THE

2. IF INSTALLING ONLY THE VENT (EXHAUST) PIPING IN

VERTICAL CLEARANCE REQUIREMENTS ARE BEING

MAINTAINED. THESE CLEARANCES AND THOSE CITED

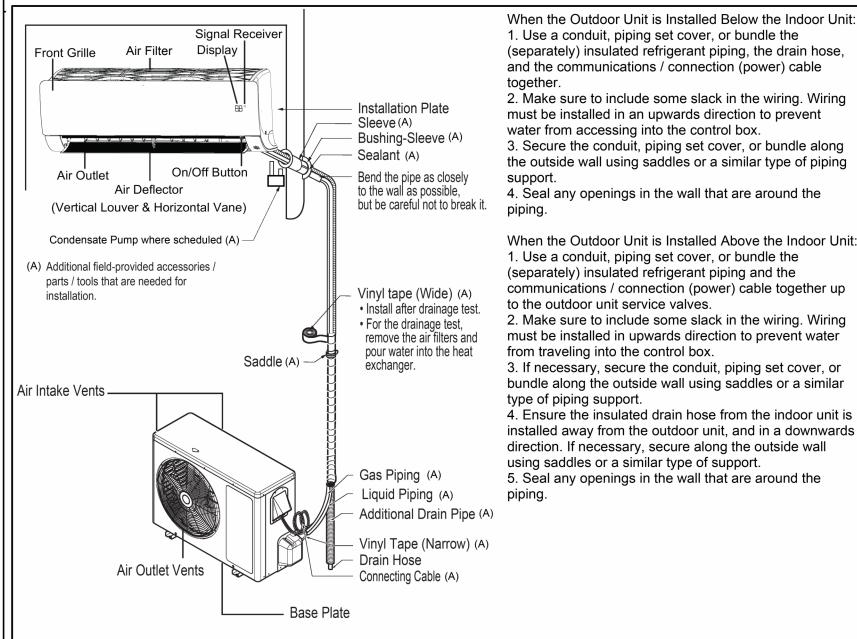
A POWER VENT CONFIGURATION VERTICALLY THROUGH THE ROOF; ENSURE THAT ALL EXTERIOR

TERMINATION(S).

Note: Installers must ensure that screws used to fasten the tie-down clips with the unit base pan do not touch the coil in order to prevent any damage to the coil TIE-DOWN CLIP (1) (GROUND AND ROOF APPLICATION)

Miami Tech CUTD 1" wide ASTM A653 galvanized steel 0.07" thick of varying length (FL 19731.2) or equivalent for all cabinets tied down to a roof structure or ground structure; fasten clip to structure using anchor from Anchor Schedule to Host Structure Table and (2) #10 SS 410 self-drilling screw to fasten clip to unit base pan. Install in unit with quantitles shown in Tie-down Strap & Clip Schedule. Locate clips at 3" min away from the appropriate comer using four clips per side (two at each corner) and four clips opposite side in the same configuration. Miami Tech kit # CBCUTD4KG for ground & kit # CBCUTD4KR for roof application.

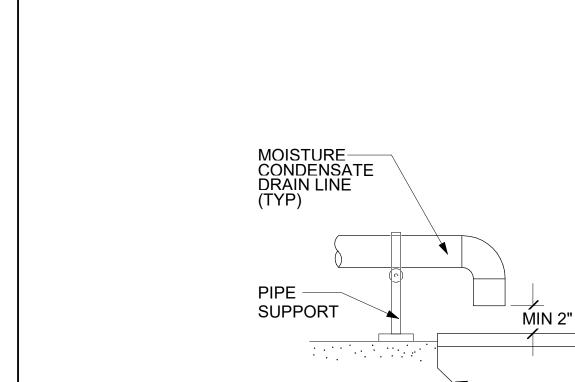
TIE DOWN CLIP No Scale



MOUNT INDOOR UNIT A MINIMUM OF 6'-6" ABOVE FLOOR, 12" FROM CEILING, AND 4" FROM SIDE WALL. OUTDOOR UNIT MAY BE PAD MOUNTED, WALL MOUNTED, OR ROOF MOUNTED. REFER TO MANUFACTURER DETAILS FOR SECUREMENT TO PAD, WALL BRACKET, OR EQUIPMENT RAILS. EQUIPMENT RAIL ELEVATION SHALL COMPLY WITH FBC TABLE 1510.10.

ALLOW 12" CLEARANCE FROM BACK OF OUTDOOR UNIT TO WALL AND 24" CLEARANCE BETWEEN UNITS MOUNTED SIDE BY SIDE OR BACK TO BACK. REFER TO EQUIPMENT SCHEDULE FOR MAXIMUM ALLOWABLE REFRIGERANT LINE LENGTH. REFER TO FLOOR PLANS FOR ROUTING OF CONDENSATE DRAIN PIPING

DUCTLESS SPLIT DX UNIT INSTALLATION



-ROOF DRAIN -PIPE SUPPORT OR FLOOR DRAIN SLOPE DRAIN LINE MINIMUM OF 1/8" PER FOOT TO ROOF RECEPTOR. TOTAL HEIGHT OF TRAP= X+H+ (1 1/2 x PIPE DIAMETER) FOR DRAW THRU UNITS X= MIN. 1/2 H (PREFERRED X=H) H= NEGATIVE STATIC PRESSURE +1"

DETAIL FOR REFRIGERANT LINE HANGER

SEE SPECIFICATIONS

FOR PIPING MATERIAL

FULL CONN.-SIZE PIPE MIN. 1 1/4"

CONNECTION

ROOF SLAB OR DECK

-ELBOW

CLEAN-OUT-

PLUG

TEE~

OPEN VENT-

Mason Blau & Associates 4625 E Bay Drive, #228, Clearwater, FL 33764 AR0013034 T: 727.530.0570

GASKET

MATERIAL

Project Architect:

CONSULTING ENGINEERS
3031 N. ROCKY POINT DR. W., SUITE 750 PHONE (813) 882-4415 WWW.ICTHOMASSON.COM FIRM CERTIFICATE OF AUTHORIZATION FLORIDA REG. #CA-0001276 MECHANICAL ENGINEER DAN A. NESMAN, P.E. FLORIDA #54888 ELECTRICAL ENGINEER MANNY CRUZ Jr., P.E. FLORIDA #92000

Project Name:

0302

1602

0812

1/2" WIDE COPPER

STRAP

-INSULATION

Seal & Signature:

JACKSON PHYSICAL THERAPY CENTER

Project Number: 2401 Project Location: 3030 Hospital Drive

Marianna, FL 32446

CONSTRUCTION DOCUMENTS Issue Date: 4/17/25

#\ REVISIONS No. Description

> Drawing Title: **MECHANICAL DETAILS**

> > **M801**

Drawing Number:

Drawn by: OA Checked by: Checker Scale: 1/8" = 1'-0"

CONDENSING UNIT ON ROOF WITH TIE-DOWN | 0316

ROOF STRUCTURE

-2"x2"x1/4" THICK NEOPRENE

TYPICAL EACH CORNER

-ALUMINUM A/C STAND.

CONTRACTOR TO SECURE

STAND TO ROOF TO MEET

ALL NOA REQUIREMENTS.

VIBRATION ISOLATION PAD

BASIS OF DESIGN: MIAMI TECH PRE-ENGINEERED EQUIPMENT STAND MODEL AS14.

WITHSTAND CODE REQURIED WINDLOADS. THIS INFORMATION SHALL BE PROVIDED

-CONDENSING UNIT TIE-DOWN KIT

LONG STEEL TIE DOWN CLIPS

SELF DRILLING SCREWS AND

BOTTOM, OD 1", 1/2" MINIMUM

TOTAL OF 8 CLIPS PER UNIT.

WITH FBC TABLE 1510.10

MIAMI TECH, INC.

EQUIVALENT TO FL14CUTD10KR BY

0.07" THICK ASTM A653 STEEL, 4"-6"

SECURED TO UNIT WITH (4)-#10 SS 410

ANCHORED TO ALUMINUM EQUIPMENT

RAIL WITH (1)-#14 SAE SS BOLT 410

DISTANCE TO METAL EDGE. 2 CLIPS

FBC PRODUCT APPROVAL FL#19731

HEIGHT OF LEGS SHALL COMPLY

EACH SIDE AT 3" FROM CORNER FOR A

WITH SS NUT AND WASHER TOP &

NOTE: PRIOR TO THE START OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE THE SERVICES OF A STRUCTURAL ENGINEER, LICENSED IN THE

STATE OF FLORIDA, WHO SHALL VERIFY THE CORRECT INSTALLATION AND ATTACHMENT OF THE EQUIPMENT STAND TO THE STRUCTURE IN ORDER TO

IN A DEFERRED SUBMITTAL

CONDENSING UNIT

(TYPICAL)

INSULATED LIFTOFF COVER-SLOTTED TO ALLOW FOR **WOOD NAILER** -CAULK **ROOFING TO-**EXTEND OVER CURB PIPE MIN. ROOF -ROOFING INSULATION PACK WITH-SECURE CURB TO ROOF DECK **FIBERGLASS DECK BY METHOD CONSISTENT WITH ROOF CONSTRUCTION**

MD-5202 PIPE THRU ROOF DETAIL

MIN 2" AIR SPACE

TERMINATION DETAIL OF MOISTURE

No Scale

No Scale

CONDENSATE LINE

MD-2003

MANUAL VOLUME DAMPER-LOCATED IN CORRIDOR OR PROVIDE VOLUME DAMPER WITH REMOTE OPERATOR IN ACCESSIBLE LOCATION.

RADIUS ELBOW DOWN-

RETURN DUCT TO HAVE ATLEAST (2) 45° ELBOWS

RETURN GRILLE MOUNTED-

IN RETURN DUCT 8" ABOVE FINISHED FLOOR.

TYPICAL LOW WALL RETURN GRILLE

CONDENSATE DRAIN TRAP

ROOFING SHALL EXTEND

INSULATION

1. CURB HEIGHT ON UP-SLOPE SIDE SHALL BE AS SET FORTH

2. COORDINATE FASTENING SPACING WITH LOCAL WIND

IN MECH. SPECS. SECURE CURB TO BUILDING STRUCTURE

WITH SHEET LAG BOLTS, OR OTHER METHODS CONSISTENT

DECKING

WITH ROOF STRUCTURE.

ROOF CURB ON METAL DECK DETAIL

LOAD REQUIREMENTS.

HANG FROM BUILDING

MIN 2" SECTION OF

INSULATION UNDER

HANGER IF LINE IS

UNINSULATED

STRUCTURE

UP AND OVER TOP

ACOUSTICAL

LINING

LIGHT WT.

CONCRETE

OR ROOF

INSULATION

OF CURB AS SHOWN

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EIGH CEPTIEICATE OF A UTHORIZATION FIRM CERTIFICATE OF AUTHORIZATION FLORIDA REG. #CA-0001276 MECHANICAL ENGINEER DAN A. NESMAN, P.E. FLORIDA #54888

ELECTRICAL ENGINEER MANNY CRUZ Jr., P.E. FLORIDA #92000 Seal & Signature:

Project Name:

JACKSON PHYSICAL THERAPY CENTER

Project Number: 24011 Project Location: 3030 Hospital Drive

Marianna, FL 32446

CONSTRUCTION DOCUMENTS Issue Date: 4/17/25

No. Description Date

Drawing Title: MECHANICAL **DETAILS**

Drawing Number:

Drawn by: OA Checked by: Checker

SYSTEM NO. W-L-8018 MAY 19, 2005 F RATING - 1 AND 2 HR (SEE ITEM 1) T RAYING - 0 AND 3/4 HR (SEE ITEM 1) SECTION A-A 1. Wall Assembly – The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistive Directory and shall include the following construction features. A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide steel channel studs spaced max 24 in. (610 mm) B. Gypsum Board* - Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 4 in. (102 mm). The hourly F Rating of the firestop system is equal to the hourly rating of the wall assembly. The hourly T Rating of the firestop system is 0 and 3/4 Hr for 1 and 2 Hr rated assemblies, respectively. 2. **Through Penetrants** – Penetrants to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrants shall be min 0 in. (point contact) to max 1-1/2 in. (0 mm to max 38 mm). The annular space between penetrants and periphery of opening shall be min 0 in. (point contact) to max 1-1/4 in. (0 mm to max 32 mm). Penetrants to be rigidly supported on both sides of wall assembly. The following types and sizes of penetrants may be used: A. Metallic Pipes – Max two metallic pipes or tubing. The following types and sizes of metallic pipes or tubing may be used: A1. Copper Tubing – Nom 1 in. (25 mm) diam (or smaller) Type M (or heavier) copper tube. A2. Copper Pipe – Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe. B. **Tube Insulation*** – **Plastics+** – Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation required for all copper tubes and pipes greater than nom 3/4 in. (19 mm) diam. See **Plastics** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used. C. Cables – Max one 2/C No. 18 AWG (or smaller) control cable with polyvinyl chloride (PVC) insulation and jacket. Cable to be rigidly supported on both sides of floor or wall assembly. 3. **Fill, Void or Cavity Materials*** – **Caulk, Sealant or Putty** – Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of the wall. Min 1/2 in. (13 mm) diam bead of fill material applied to the wallboard/penetrant interface at point contact location on both surfaces of wall. 3M COMPANY – CP 25WB+, IC 15WB+ caulk, FB-3000 WT sealant or MP+ Stix putty *Bearing the UL Classification Marking +Bearing the UL Recognized Component Mark THE DETAILS ON THIS PAGE ARE COPYRIGHT © 2010 BY UNDERWRITERS LABORATORIES INC. ®THE APPEARANCE OF A COMPANY'S NAME OR PRODUCT IN THIS DATABASE DOES NOT IN TSELF ASSURE THAT PRODUCTS SO IDENTIFIED HAVE BEEN MANUFACTURED

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U.L. FIRESTOP DETAIL FOR PIPE PENETRATIONS No Scale

CONTROL SYSTEM SHALL BE NON-PROPRIETARY OPEN PROTOCOL.
ALL CONTROL COMPONENTS AND POINTS NOT INCLUDED WITH RTU CONTROLLER SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR INCLUDING ALL ROOM THERMOSTATS, EXTERNAL RELAYS, WIRING, SENSORS, AND SOFTWARE. CONTROLS CONTRACTOR SHALL COORDINATE WITH RTU MANUFACTURER AND MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE SYSTEM. ROOM TEMPERATURE AND HUMIDITY SENSORS SHALL BE ADJUSTABLE WITH DIGITAL DISPLAY. COORDINATE WITH ELECTRICAL FOR EMERGENCY POWER TO ALL CONTROL COMPONENTS.

RTU-1 VARIABLE AIRFLOW SEQUENCE OF OPERATION WITH UNOCCUPIED SETBACK

- SUPPLY AIR FAN
- SUPPLY AIR FAN SHALL BE ENERGIZED/DE-ENERGIZED FROM THE VFD IN HAND POSITION OR THE DDC SYSTEM WHEN IN AUTO MODE. THE DDC CONTROL SYSTEM SHALL SENSE WHEN THE FAN IS IN HAND POSITION BY THE FAN STATUS VERIFICATION AND INITIATE THE RTU CONTROL SEQUENCE.
- IN AUTO MODE, THE OUTSIDE AIR DAMPER (D-OA) SHALL MODULATE OPEN. ONCE THE DAMPER IS OPEN, THE SUPPLY FAN SHALL START AND THE DDC SYSTEM SHALL SIGNAL THE ASSOCIATED EXHAUST FANS TO START. IF THE FAN IS STARTED IN HAND MODE, THE OUTSIDE AIR DAMPER SHALL OPEN IMMEDIATELY UPON SENSING FAN STATUS IS ON.
- FANS SHALL SHUT DOWN UPON A SIGNAL FROM:
- THE FIRE ALARM PANEL THRU THE F/A RELAY.
 THE SUPPLY AIR SMOKE DETECTOR(S) (SD-SA).
- 3) THE RETURN AIR SMOKE DETECTOR(S) (SD-SA).
 4) FREEZE STAT, (TS-FRZ).
- 5) THE HIGH/LOW LIMIT STATIC PRESSURE SWITCHES (SPS-SHI & RLO).
- D. WHEN THE SUPPLY FAN SHUTS DOWN, THE FOLLOWING SHALL OCCUR:

THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.

- THE OUTSIDE AIR DAMPER (D-OA) SHALL CLOSE.

 THE ASSOCIATED CONDENSER SHALL SHUT OFF.
- SUPPLY FAN SPEED CONTROL
- THE SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD) SHALL BE CONTROLLED BY A DUCT MOUNTED DIFFERENTIAL STATIC PRESSURE TRANSMITTER (SPT-SA) MODULATING THE VFD TO MAINTAIN A SUPPLY DUCT STATIC PRESSURE AT THE LOWEST SET POINT POSSIBLE AS DETERMINED BY THE TAB CONTRACTOR. FOR MULTIPLE STATIC PRESSURE TRANSMITTERS, THE DDC SYSTEM SHALL PROVIDE A SEPARATE SET POINT FOR EACH STATIC PRESSURE TRANSMITTER AND SELECT THE STATIC PRESSURE TRANSMITTER THAT IS FARTHEST BELOW ITS SET POINT TO CONTROL THE SPEED OF THE VFD. THE VFD SHALL OUTPUT THE % FULL SPEED TO THE DDC SYSTEM THROUGH THE NETWORK INTERFACE.
- 3. ON A FALL IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, THE DDC SYSTEM SHALL SPEED UP THE SUPPLY FAN VFD TO MAINTAIN SPT-SA AT SET POINT.
- ON A RISE IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, THE DDC SYSTEM SHALL SLOW DOWN THE SUPPLY FAN VFD TO MAINTAIN SPT-SA AT SET POINT.
- D. SPT-SA SHALL ALARM THE DDC SYSTEM IF ITS MEASURED PRESSURE IS 10% (ADJ.) ABOVE OR BELOW SETPOINT.
- E. STATIC PRESSURE SENSOR, SPS-SHI, SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A HIGH STATIC PRESSURE, ALARM THE DDC SYSTEM, AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN. SPS-RLO SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A LOW
- SYSTEM, AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN. SPS-RLO SHALL SHUTDOWN THE FANS WHENEVER IT SENSES STATIC PRESSURE AND ALARM THE DDC SYSTEM AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN.

3. OUTSIDE AIR MONITOR THE OUTSIDE AIR MONITOR SHALL MEASURE THE OUTSIDE AIR AND MODULATE THE OUTSIDE AIR DAMPER (D-OA) TO MAINTAIN THE SCHEDULED

4. OCCUPIED MODE

OUTSIDE AIR.

- UPON START OF OCCUPIED PERIOD, THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN SCHEDULED OUTSIDE AIRFLOW.
 ASSOCIATED EXHAUST FANS SHALL BE ENABLED AND OPERATE TO SCHEDULED AIRFLOW.
- 3) THE SUPPLY FAN SHALL OPERATE AT SCHEDULED AIRFLOW.
 4) THE UNIT CONTROLLER SHALL STAGE THE COMPRESSORS AND CONDENSER AS REQUIRED TO MAINTAIN COOLING COIL LEAVING AIR TEMPERATURE SETPOINT AS PROVIDED BY THE BAS. 53°F (ADJ.) FOR RTU-1.
- UPON A RISE IN RETURN AIR HUMIDITY OR SPACE HUMIDITY ABOVE 60% RH (ADJ.), THE UNIT CONTROLLER WILL INITIATE THE INTERNAL DEHUMIDIFICATION SEQUENCE AND MODULATE THE HOT GAS REHEAT UNTIL THE HUMIDITY DROPS BELOW SETPOINT.

 a) WHILE IN HOT GAS REHEAT MODE, VAV TERMINAL BOXES WILL CONTINUE TO MODULATE OPEN/CLOSED BASED ON THE VAV
- BOX SEQUENCE.
 b) COOLING SHALL TAKE PRECEDENCE OVER HUMIDITY CONTROL. IF THE UNIT IS IN HOT GAS REHEAT MODE AND THE SPACE TEMPERATURE FOR ANY ZONE EXCEEDS THE SETPOINT FOR A PERIOD OF 10 MINUTES (ADJ.), THE HOT GAS REHEAT SHALL
- BE DISABLED.

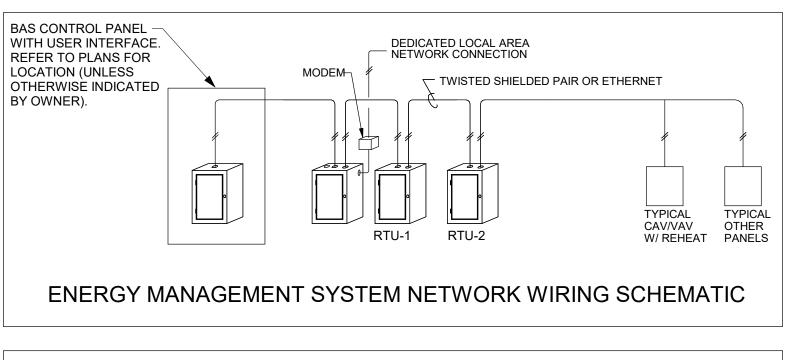
 6) UPON A RISE IN ANY SPACE TEMPERATURE ABOVE SETPOINT FOR A PERIOD OF 10 MINUTES (ADJ.), THE LEAVING AIR TEMPERATURE SHALL BE RESET DOWN 1 °F EVERY 10 MINUTES (ADJ.) TO THE MINIMUM SCHEDULED SUPPLY AIR TEMPERATURE TO MAINTAIN SPACE TEMPERATURE SETPOINT (PRIORITY POLLING).
- . UNOCCUPIED MODE
- THE UNOCCUPIED MODE SHALL BE ENABLED BASED ON A FACILITY OPERATING TIME SCHEDULE. WHEN INDEXED IN THE UNOCCUPIED MODE, THE FOLLOWING SHALL OCCUR:
- THE ASSOCIATED EXHAUST FANS SHALL SHUT DOWN.
 THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE.
- 2) VAV TERMINAL BOXES SHALL OPERATE AT UNOCCUPIED AIRFLOWS.
 3) THE SUPPLY FAN AND COMPRESSORS SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETBACK POINT (ADJ.).
 4) HOT GAS REHEAT SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE HUMIDITY SETBACK POINT (ADJ.).
- 6. OPTIMAL START
- A. 30 MINUTES (ADJ.) BEFORE THE OCCUPIED MODE IS SCHEDULED TO BE ENABLED, THE FOLLOWING SHALL OCCUR: THE CONDENSING UNIT SHALL BE CONTROLLED BY A CONTROL LOOP WITH THE DISCHARGE AIR TEMPERATURE TRANSMITTER, TT-DAT, AS THE INPUT, AND A SET
- 7. ELECTRIC REHEAT COIL REFER TO VAV SEQUENCE.

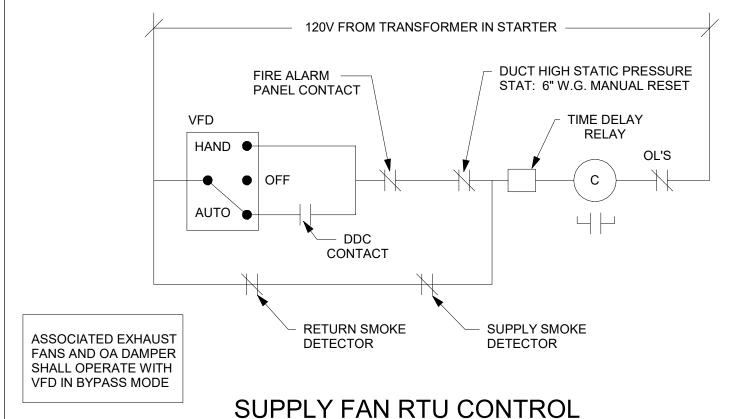
POINT EQUAL TO THE DISCHARGE AIR SET POINT.

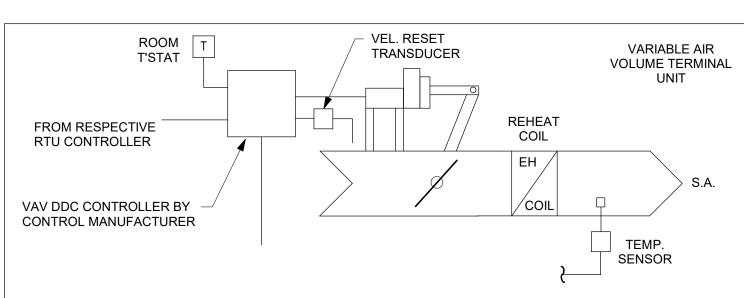
- B. FREEZESTAT
- WHENEVER FREEZE STAT, TS-FZ, SENSES A TEMPERATURE BELOW 36 °F (ADJ.), DDC SYSTEM SHALL PERFORM THE FOLLOWING:

 1) THE SUPPLY FAN AND ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.
- THE OUTSIDE AIR DAMPER (D-OA) SHALL CLOSE.
 THE CONDENSING UNIT SHALL DISABLE.
- 4) ISSUE A UNIQUE ALARM.
- A MANUAL RESET AT THE RTU SHALL BE REQUIRED TO RESTART AN RTU THAT HAS AUTOMATICALLY SHUT DOWN FROM A FREEZE STAT TRIP.
- 9. FILTERS
- ALL FILTERS SHALL HAVE A DIFFERENTIAL PRESSURE SWITCH (DPS-FIL) MEASURING THE PRESSURE DROP ACROSS THE FILTER BANK. EACH SHALL ALARM THE DDC SYSTEM WHENEVER THE PRESSURE DROP ACROSS THE FILTER IS EXCESSIVE (DIRTY FILTER) (ADJ.).
- 10. FIRE ALARM SHUTDOWNA. WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL SIGNAL THE DDC SYSTEM. THE DDC SYSTEM IS
- TO DE-ENERGIZE THE UNIT AND SHALL PERFORM THE FOLLOWING:

 1) SHUTDOWN THE SUPPLY AIR FAN.
- SHUTDOWN THE CONDENSERS AND COMPRESSORS.
 SHUTDOWN THE ASSOCIATED EXHAUST FANS.
 CLOSE THE OUTSIDE AIR DAMPER (D-OA).
- 11. SYSTEM AUTO RESTART
- THE RTU SHALL RESTART AUTOMATICALLY AFTER A MOMENTARY POWER FAILURE OR AFTER TRANSFER TO AN ALTERNATE POWER SOURCE AND OPERATE IN THE SAME STATE IT WAS IN PRIOR TO THE POWER FAILURE OR TRANSFER OF POWER.
- OPERATE IN THE SAME STATE IT WAS IN PRIO
- 12. EXHAUST FANSA. INTERLOCKED EXHAUST FANS SHALL BE ENERGIZED WHEN RESPECTIVE RTU SUPPLY AIR FAN IS ENERGIZED.
- 1) EF-1.1, EF-1.2, & EF-1.3 SHALL BE INTERLOCKED WITH RTU-1.
 2) EF-PE SHALL RUN CONTINUOUSLY.
- 13. DIAL OUT ALARMS
- CONTROL SYSTEM SHALL PROVIDE DIAL OUT ON THE FOLLOWING CRITICAL ALARMS:
- SUPPLY FAN FAILURE
 CONDENSER FAILURE
 HIGH HUMIDITY
- 4) LOW HUMIDITY
 5) DISCHARGE AIR TEMPERATURE ABOVE OR BELOW 5 °F OF SETPOINT (ADJ.)
- 14. STATIC PRESSURE RESET
- THE DUCT STATIC PRESSURE SETPOINT WILL BY DYNAMICALLY RESET DOWNWARDS AT 15 MINUTE (ADJ.) INTERVALS FROM THE MAX DUCT STATIC PRESSURE SETPOINT OF 1.0" (ADJ.), AS LONG AS THE MOST OPEN VAV BOX IS LESS THAN 80% (ADJ.) OPEN. ONCE THE MOST OPEN VAV BOX EXCEEDS 80% OPEN, THE DUCT STATIC PRESSURE SETPOINT WILL BEGIN TO REST BACK TOWARDS THE MAX DUCT STATIC PRESSURE SETPOINT OF 1.5" (ADJ.).
- B. UPON AIR HANDLER SHUT DOWN, VAV TERMINAL UNITS SHALL BE DRIVEN TO FULL OPEN POSITION TO PREVENT DUCT OVER PRESSURIZATION DURING AIR HANDLER START-UP IF REQUIRED.

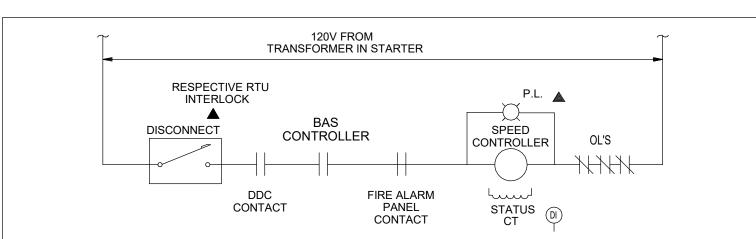






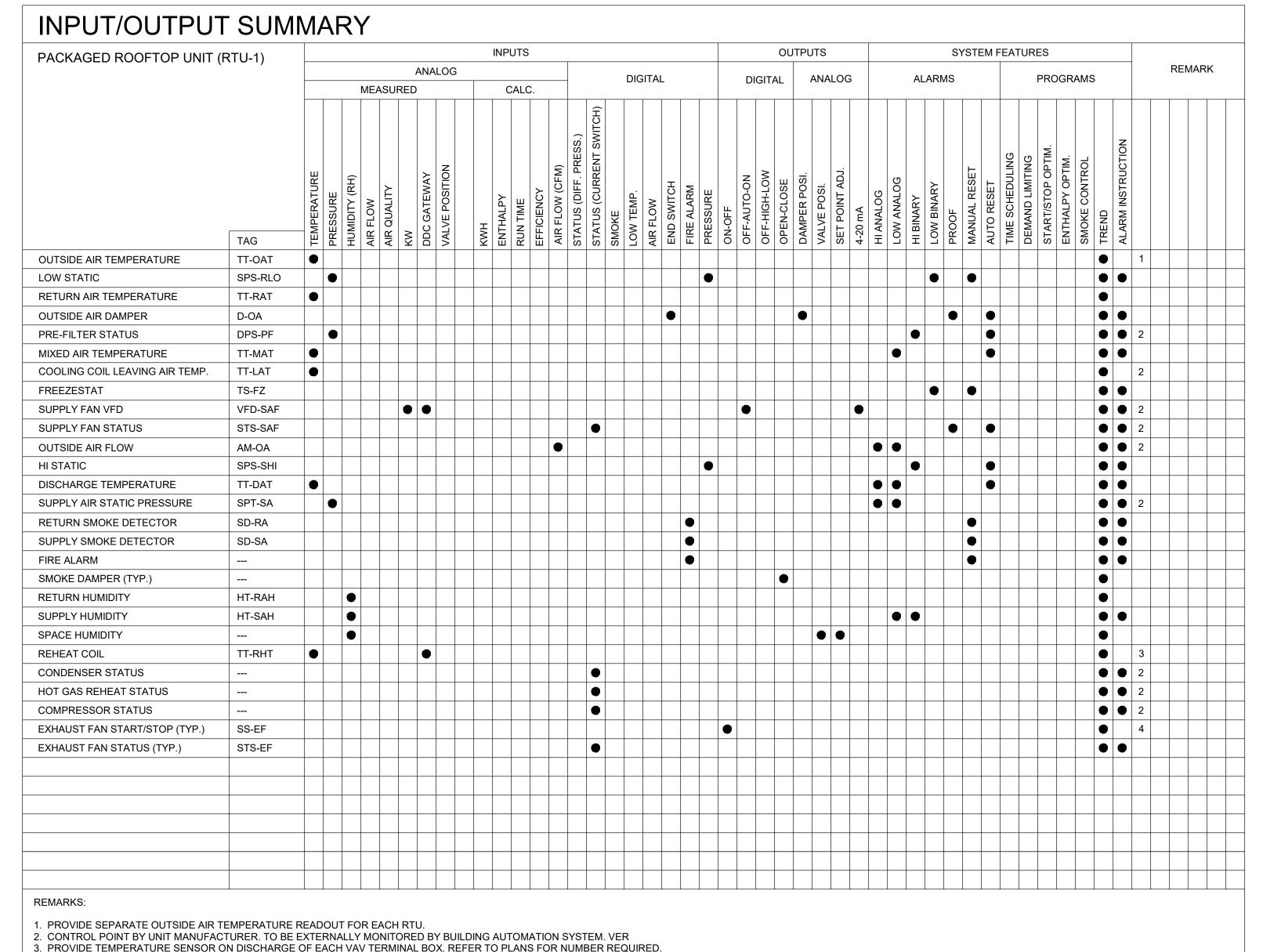
VARIABLE AIR VOLUME BOX SEQUENCE OF OPERATION

- 1. ON A RISE IN SPACE TEMPERATURE ABOVE THERMOSTAT SET POINT, ELECTRIC HEATER IS CYCLED OFF. ON A FURTHER RISE IN SPACE TEMPERATURE, VARIABLE VOLUME TERMINAL BOX AIRFLOW IS INCREASED FROM MINIMUM TO MAXIMUM AS SCHEDULED ON DRAWINGS.
- 2. ON A DROP IN SPACE TEMPERATURE BELOW THERMOSTAT SET POINT, VARIABLE VOLUME TERMINAL BOX AIRFLOW IS MODULATED FROM MAXIMUM TOWARD MINIMUM (UNOCCUPIED MINIMUM WHEN IN UNOCCUPIED MODE). ON A FURTHER DROP IN SPACE TEMPERATURE THE ELECTRIC DUCT HEATER IS MODULATED AS REQUIRED TO MAINTAIN SETPOINT.
- 3. OCCUPIED SETPOINTS SHALL BE: 73-75°F / 50% RH ALL ROOMS
- 4. UNOCCUPIED SETPOINTS SHALL BE 78°F / 50% RH ALL ROOMS

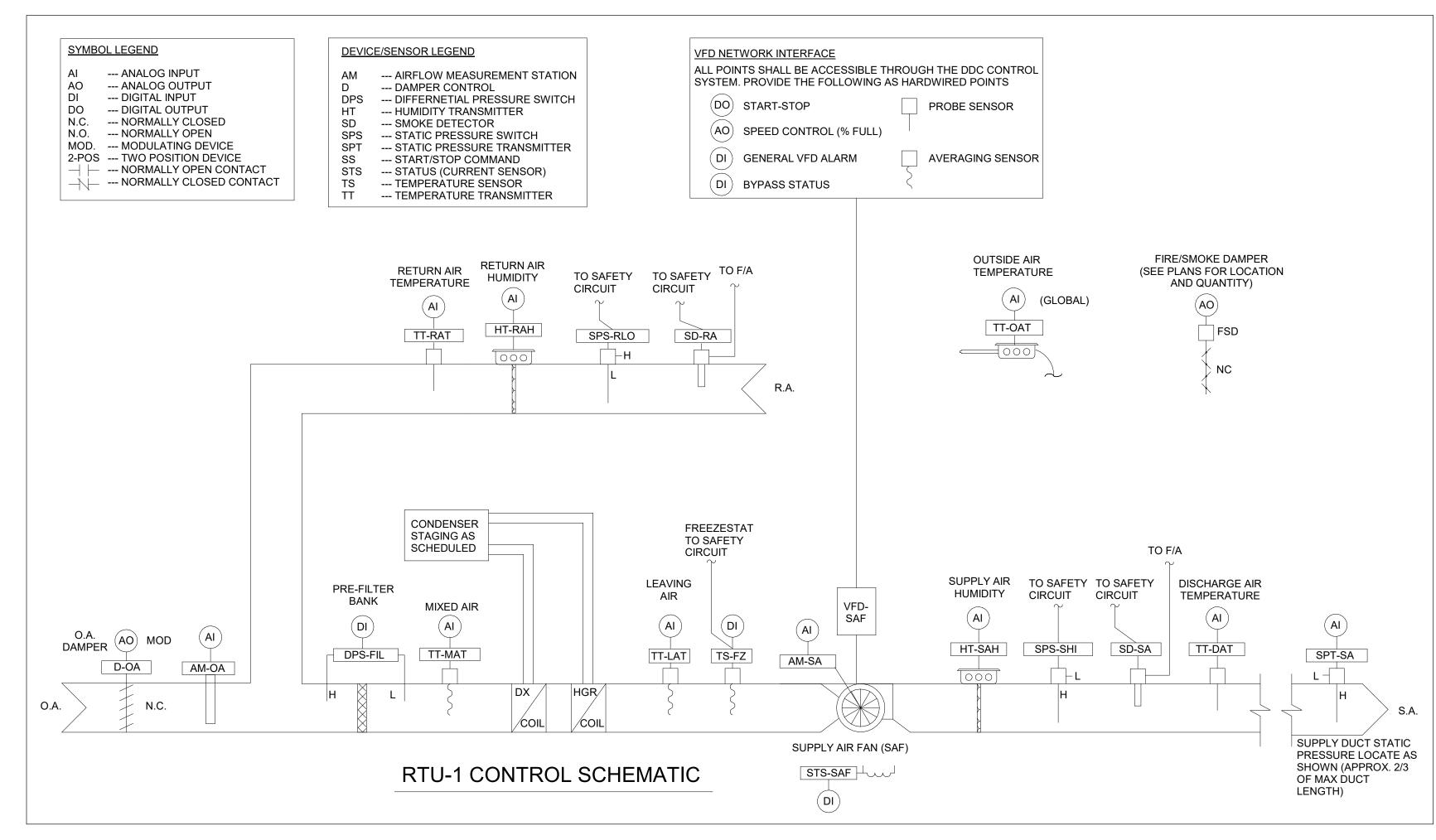


TYPICAL SINGLE PHASE EXHAUST FAN CONTROL

COORDINATE WITH ELECTRICAL FOR EMERGENCY POWER TO ALL HVAC COMPONENTS.



4. REFER TO DRAWINGS, SEQUENCE OF OPERATION, AND SCHEDULES FOR NUMBER OF EXHAUST FANS INTERLOCKED WITH EACH RTU.



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Issue Date: 4/17/25

No. Description Date

Drawing Title:

MECHANICAL

CONTROLS

M900

Drawing Number:

3. OCCUPIED MODE **FILTERS** 13. DIAL OUT ALARMS

RTU-2 SEQUENCE OF OPERATION WITH UNOCCUPIED SETBACK

- SUPPLY AIR FAN
- SUPPLY AIR FAN SHALL BE ENERGIZED/DE-ENERGIZED FROM THE VFD IN HAND POSITION OR THE DDC SYSTEM WHEN IN AUTO MODE. THE DDC CONTROL SYSTEM SHALL SENSE WHEN THE FAN IS IN HAND POSITION BY THE FAN STATUS VERIFICATION AND INITIATE THE RTU
- IN AUTO MODE, THE OUTSIDE AIR DAMPER (D-OA) SHALL MODULATE OPEN. ONCE THE DAMPER IS OPEN, THE SUPPLY FAN SHALL START AND THE DDC SYSTEM SHALL SIGNAL THE ASSOCIATED EXHAUST FANS TO START. IF THE FAN IS STARTED IN HAND MODE, THE OUTSIDE AIR DAMPER SHALL OPEN IMMEDIATELY UPON SENSING FAN STATUS IS ON.
- FANS SHALL SHUT DOWN UPON A SIGNAL FROM: THE FIRE ALARM PANEL THRU THE F/A RELAY.
- THE SUPPLY AIR SMOKE DETECTOR(S) (SD-SA). THE RETURN AIR SMOKE DETECTOR(S) (SD-RA).
- FREEZE STAT, (TS-FRZ).
- WHEN THE SUPPLY FAN SHUTS DOWN, THE FOLLOWING SHALL OCCUR: 1) THE OUTSIDE AIR DAMPER (D-OA) SHALL CLOSE.
- THE ASSOCIATED CONDENSER SHALL SHUT OFF. 3) THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.
- SUPPLY FAN SPEED CONTROL

THE SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD) SHALL BE CONTROLLED BY AN INTERNAL AIRFLOW MEASUREMENT AND SHALL ADJUST FAN SPEEDS TO MAINTAIN THE TOTAL SCHEDULED SUPPLY AIR CFM.

- UPON START OF OCCUPIED PERIOD, THE FOLLOWING SHALL OCCUR:
- THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN SCHEDULED OUTSIDE AIRFLOW. ASSOCIATED EXHAUST FANS SHALL BE ENABLED AND OPERATE TO SCHEDULED AIRFLOW.
- THE SUPPLY FAN SHALL OPERATE AT SCHEDULED AIRFLOW. THE UNIT CONTROLLER SHALL STAGE THE COMPRESSORS AND CONDENSER AS REQUIRED TO MAINTAIN THE DESIGN SPACE TEMPERATURE. 82°F (ADJ.) FOR RTU-2. UPON A RISE IN SPACE HUMIDITY ABOVE 55% RH (ADJ.), THE UNIT CONTROLLER WILL INITIATE THE INTERNAL DEHUMIDIFICATION
- SEQUENCE AND STAGE THE COMPRESSORS AS REQUIRED TO MAINTAIN THE SAPCE HUMIDITY. UPON A DROP IN SPACE TEMPERATURE BELOW SETPOINT, THE UNIT CONTROLLER WILL MODULATE THE ELECTRIC HEAT TO MAINTAIN THE SPACE TEMPERATURE.
- UNOCCUPIED MODE
- THE UNOCCUPIED MODE SHALL BE ENABLED BASED ON A FACILITY OPERATING TIME SCHEDULE. WHEN INDEXED IN THE UNOCCUPIED MODE, THE FOLLOWING SHALL OCCUR:
- THE ASSOCIATED EXHAUST FANS SHALL SHUT DOWN. THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE.
- THE SUPPLY FAN AND COMPRESSORS SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETBACK POINT (ADJ.). THE COMPRESSORS SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE HUMIDITY SETBACK POINT OF 60% RH (ADJ.).
- PURGE MODE
- THIS MODE IS MANUALLY TRIGGERED BY AN OPERATOR WHEN SUPER-CHLORINATING THE POOL. IT CAN BE TRIGGERED AT THE UNIT-MOUNTED OPERATOR PANEL(S), THROUGH THE ONLINE WEBSENTRY INTERFACE, OR BY THE BACNET CONTROLLER.

 - PURGE MODE HAS AN ADJUSTABLE TIMED DURATION AFTER WHICH THE SYSTEM AUTOMATICALLY RESUMES NORMAL OPERATION.
- ONCE TRIGGERED BY THE OPERATOR:
- THE COMPRESSOR(S), IF OPERATING, PUMP DOWN AND CYCLE OFF.
- A SIGNAL FROM THE MICROPROCESSOR SETS THE EXHAUST FAN(S) TO THEIR MAXIMUM CFM.
- THE UNIT MOUNTED OUTDOOR AIR DAMPERS OPEN FULLY AND THE RETURN AIR DAMPERS CLOSE.
- THE SYSTEM STAYS IN 100% OUTDOOR AIR VENTILATION MODE. AFTER THE TIMED PERIOD EXPIRES, ALL DAMPERS AND FANS RETURN TO NORMAL OPERATING SETTINGS AND THE SYSTEM
- RESUMES NORMAL OPERATION. DURING PURGE MODE, THE SYSTEM WILL CONTROL HEATING BASED ON SUPPLY AIR TEMPERATURE.
- ECONOMIZER MODE
- IF THE RETURN AIR TEMPERATURE IS ABOVE THE ROOM TEMPERATURE SETPOINT, THE MICROPROCESSOR WILL COMPARE THE
- TEMPERATURE OF THE OUTSIDE AIR WITH THE COOLING SETPOINT. WHEN OUTSIDE AIR IS DEEMED TO BE SUITABLE BY THE MICROPROCESSOR, IT WILL BE USED AS THE FIRST STAGE OF SENSIBLE
- 3) THE SYSTEM WILL SWITCH OVER TO USING THE COMPRESSOR(S) IF OUTSIDE AIR CONDITIONS CANNOT SATISFY THE SPACE COOLING DEMAND.
- DEHUMIDIFICATION MODE 1) IF THE RETURN AIR RELATIVE HUMIDITY IS ABOVE HUMIDITY SETPOINT, THE MICROPROCESSOR WILL COMPARE THE MOISTURE
- CONTENT OF THE OUTSIDE AIR TO THE DEHUMIDIFICATION SETPOINT.
- WHEN OUTSIDE AIR IS DEEMED TO BE SUITABLE BY THE MICROPROCESSOR, IT WILL BE USED AS THE FIRST STAGE OF
- THE SYSTEM WILL SWITCH OVER TO USING THE COMPRESSOR(S) IF OUTSIDE AIR CONDITIONS CANNOT SATISFY THE SPACE HUMIDITY DEMAND.
- FREEZESTAT
- WHENEVER FREEZE STAT. TS-FZ. SENSES A TEMPERATURE BELOW 36 °F (ADJ.). DDC SYSTEM SHALL PERFORM THE FOLLOWING:
- THE SUPPLY FAN AND ASSOCIATED EXHAUST FANS SHALL SHUTDOWN. THE OUTSIDE AIR DAMPER (D-OA) SHALL CLOSE.
- THE CONDENSING UNIT SHALL DISABLE.
- ISSUE A UNIQUE ALARM.
- A MANUAL RESET AT THE RTU SHALL BE REQUIRED TO RESTART AN RTU THAT HAS AUTOMATICALLY SHUT DOWN FROM A FREEZE STAT

- RETURN AIR FILTERS SHALL HAVE A DIFFERENTIAL PRESSURE SWITCH (DPS-FIL) MEASURING THE PRESSURE DROP ACROSS THE FILTER BANK. EACH SHALL ALARM THE DDC SYSTEM WHENEVER THE PRESSURE DROP ACROSS THE FILTER IS EXCESSIVE (DIRTY FILTER) (ADJ.).
- 10. FIRE ALARM SHUTDOWN
- WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL SIGNAL THE DDC SYSTEM. THE DDC SYSTEM IS TO DE-ENERGIZE THE UNIT AND SHALL PERFORM THE FOLLOWING:
- 1) SHUTDOWN THE SUPPLY AIR FAN.
- SHUTDOWN THE CONDENSERS AND COMPRESSORS. SHUTDOWN THE ASSOCIATED EXHAUST FANS.
- 4) CLOSE THE OUTSIDE AIR DAMPER (D-OA).
- 11. SYSTEM AUTO RESTART

THE RTU SHALL RESTART AUTOMATICALLY AFTER A MOMENTARY POWER FAILURE OR AFTER TRANSFER TO AN ALTERNATE POWER SOURCE AND OPERATE IN THE SAME STATE IT WAS IN PRIOR TO THE POWER FAILURE OR TRANSFER OF POWER.

- 12. EXHAUST FANS
- INTERLOCKED EXHAUST FANS SHALL BE ENERGIZED WHEN RESPECTIVE RTU SUPPLY AIR FAN IS ENERGIZED. 1) EF-2.1 SHALL BE INTERLOCKED WITH RTU-2.

CONTROL SYSTEM SHALL PROVIDE DIAL OUT ON THE FOLLOWING CRITICAL ALARMS:

- SUPPLY FAN AND EXHAUST FAN FAILURE
- COMPRESSOR AND CONDENSER FAILURE
- HIGH HUMIDITY
- LOW HUMIDITY DISCHARGE AIR TEMPERATURE ABOVE OR BELOW 5 °F OF SETPOINT (ADJ.)

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Seal & Signature:

Project Name:

CENTER

Project Number: 24011 Project Location: 3030 Hospital Drive

Marianna, FL 32446

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No.	Description	Date

Drawing Title: MECHANICAL CONTROLS

M901

Drawing Number: