GENERAL NOTES
EXISTING CONDITIONS ARE BASED ON LIMITED OBSERVATIONS. CONTRACTOR SHALL VISIT JOBSITE PRIOR TO START OF DEMOLITION WORK AND VERIFY EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT AND ENGINEER.

KEYED NOTES
1. CONTRACTOR SHALL DEMOLISH EXISTING SUPPLY, RETURN, AND EXHAUST AIR DEVICES AND DUCTWORK WITHIN THIS SPACE.
2. CONTRACTOR SHALL DEMOLISH EXISTING AIR HANDLING UNITS AND ASSOCIATED THERMOSTATS, CONTROL WIRING, AND CONDENSATE DRAIN LINES WITHIN THIS SPACE. COORDINATE WITH ELECTRICAL CONTRACTOR TO DEMOLISH OR MAKE SAFE EXISTING POWER CIRCUITS.
3. CONTRACTOR SHALL DEMOLISH EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT LINES. COORDINATE WITH ELECTRICAL CONTRACTOR TO DEMOLISH OR MAKE SAFE EXISTING POWER CIRCUITS.
4. CONTRACTOR SHALL DEMOLISH EXISTING PACKAGED UNIT AND ASSOCIATED THERMOSTATS, CONTROL WIRING, AND CONDENSATE DRAIN LINES. COORDINATE WITH ELECTRICAL CONTRACTOR TO DEMOLISH OR MAKE SAFE EXISTING POWER CIRCUITS. COORDINATE WITH GENERAL CONTRACTOR TO PATCH AND REPAIR DUCT PENETRATION AND EXTERIOR WALL.
5. CONTRACTOR SHALL CAP AND SEAL AIRTIGHT ANY DUCTS ASSOCIATED WITH THIS AHU SERVING AREA OUTSIDE OF PROJECT SCOPE.
6. CONTRACTOR SHALL CAP AND SEAL ALL AIR OUTLETS ASSOCIATED WITH THIS AND REMAINING AIR OUTLETS OF PROJECT.

MECHANICAL - DEMOLITION FLOOR PLAN

EXISTING 14x14 EXHAUST LOUVER. CONTRACTOR SHALL DEMOLISH DUCTWORK TO POINT SHOWN.
CONTRACTOR SHALL PROVIDE WALL MOUNTED DIGITAL PROGRAMMABLE THERMOSTATS EQUAL TO THE HONEYWELL T10 CAPABLE OF AUTOMATICALLY TUNING TO ENHANCE ENERGY EFFICIENCY.

CONTRACTOR SHALL PROVIDE OUTSIDE AIR INTAKE LOUVER EQUAL TO THE RUSKIN EME3625MD WITH MINIMUM 1.04 SQ.FT. FREE AIR OPENING.

CONTRACTOR SHALL ROUTE REFRIGERANT LINESETS IN A NEAT AND ORDERLY MANNER BETWEEN AHU AND CU.

CONTRACTOR SHALL COORDINATE CU LOCATIONS ON EXISTING CONCRETE PAD WITH NEW SECURITY FENCE SURROUNDING THE PROPERTY. COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT AND OTHER WALL MOUNTED EQUIPMENT.

CONTRACTOR SHALL PROVIDE ALTERNATE BID USING 1-1/2" RIGID FIBERGLASS DUCT BOARD EQUAL TO CERTAINTEED, CERTAPRO STANDARDS AND IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE MECHANICAL.

CONTRACTOR SHALL CONNECT NEW EXHAUST DUCT FROM EF-S1 TO EXISTING UNIT SCHEDULE. TO BE IN OPEN POSITION WHEN AHU FAN IS RUNNING. BALANCE TO OUTSIDE AIR VALUE SHOWN IN SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE.

CONTRACTOR SHALL PROVIDE WALL MOUNTED DIGITAL PROGRAMMABLE THERMOSTATS EQUAL TO THE HONEYWELL T10 CAPABLE OF AUTOMATICALLY TUNING TO ENHANCE ENERGY EFFICIENCY.

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CONTRACTOR SHALL PROVIDE VERTICAL SPLIT SYSTEM AIR HANDLING UNIT MOUNTED ON AN INSULATED STRUCTURAL SHEET METAL PLENUM. ROUTE RETURN DUCT INTO PLENUM. EXTEND PLENUM BEYOND THE EDGE OF THE UNIT AS REQUIRED FOR DUCT CONNECTION TO UNIT. PROVIDE A SHEET METAL AUXILIARY DRAIN PAN WITH FLOAT SWITCH UNDER NEW UNIT TO SHUT UNIT DOWN WHEN WATER IS PRESENT IN SECONDARY PAN.

CONTRACTOR SHALL PROVIDE SCHEDULE 40 PVC CONDENSATE DRAIN PIPING ROUTED TO EXTERIOR OF BUILDING; SIZE COMBINED DRAIN LINE PER TABLE SHOWN IN 'HVAC CONDENSATE DRAIN TRAP DETAIL' ON SHEET M5.00. SPILL IN LANDSCAPED AREA AWAY FROM ALL WALKWAYS. INSULATE CONDENSATE PIPING WITH 3/4" ARMAFLEX INSULATION AND SEAL ALL JOINTS AIR-TIGHT.

CONTRACTOR SHALL ROUTE REFRIGERANT LINESETS IN A NEAT AND ORDERLY MANNER BETWEEN AHU AND CU. PROVIDE LINESET COVER TO PROTECT REFRIGERANT LINES ON BUILDING EXTERIOR.

CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER IN OUTSIDE AIR DUCT CONNECTION TO RETURN PLENUM; INTERLOCK DAMPER TO BE IN OPEN POSITION WHEN AHU FAN IS RUNNING. BALANCE TO OUTSIDE AIR VALUE SHOWN IN SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE. EXISTING TO REMAIN 14x14 EXHAUST LOUVER. CONTRACTOR SHALL CONNECT NEW EXHAUST DUCT FROM EF-S1 TO EXISTING EXHAUST LOUVER.

CONTRACTOR SHALL PROVIDE OUTSIDE AIR INTAKE LOUVER EQUAL TO THE RUSKIN EME3625MD WITH MINIMUM 1.04 SQ.FT. FREE AREA. LOUVER SHOWN IS SIZED AT 24x16 FOR 565 CFM.

CONTRACTOR SHALL ANCHOR CONDENSING UNIT TO EXISTING CONCRETE PAD IN THIS LOCATION. PROVIDE WITH MANUFACTURER SUPPLIED HURRICANE TIE DOWNS IN FULL COMPLIANCE WITH THE WIND LOAD REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE.
NOTES:
1. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO FAN.
6. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER CONNECTION REQUIREMENTS.
5. PROVIDE TIME OF DAY CLOCK TO OPERATE FAN WHILE BUILDING IS OCCUPIED.

GENERAL NOTES:
1. UNIT SHALL BE SUPPLIED WITH PHASE/VOLTAGE MONITOR S WITH LOSS PROTECTION AND AUTOMATIC RESET, MICROPROCESSOR BASED CONTROLS. UNIT SHALL HAVE MULTI-STAGE OR VARIABLE SPEED COMPRESSOR.
2. MOUNT UNIT ON EXISTING CONCRETE PAD WITH MANUFACTURER PROVIDED TIE-DOWNS IN COMPLIANCE WITH 2020 ELEVATION REQUIREMENTS. INSULATE LINESET WITH FLEXIBLE, CLOSED CELL ELASTOMERIC INSULATION PAINTED MANUFACTURER.
3. UNIT MODELS, EFFICIENCIES AND CAPACITIES AS SCHEDULED REPRESENT THE MINIMUM PERFORMANCE EQUIPMENT.
4. ALL DEVICES ARE TO BE ALUMINUM UNLESS OTHERWISE NOTED.
13. PROVIDE AIR HANDLING UNIT WITH BIPOLAR ION GENERATOR EQUAL TO THE PLASMA AIR PA-602. MOUNT TO SUPPLY FAN INLET PER MANUFACTURER'S INSTALLATION GUIDELINES. UNIT SHALL BE 24 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS AND ACCESS DOOR SAFETY INTERLOCK SWITCHES.

7. PROVIDE AIR HANDLING UNIT WITH GERMICIDAL UV-C LIGHT EQUAL TO THE LUMALIER ADPL-195. MOUNT IN EVAPORATOR COIL PLENUM PER MANUFACTURER'S INSTALLATION GUIDELINES. UNIT SHALL BE 208-230 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS.

8. PROVIDE AIR HANDLING UNIT WITH IGLOBO Sandscape System Equal to the Bionaire Sandscape 10X10. MOUNT IN DUCTWORK TO PROVIDE HUMIDITY COMFORT. UNIT SHALL BE 24 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS AND ACCESS DOOR SAFETY INTERLOCK SWITCHES.

9. PROVIDE AIR HANDLING UNIT WITH UV-C LIGHT FOR DISINFECTION OF VENTILATION AIR STREAM. UNIT SHALL BE 208-230 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS AND ACCESS DOOR SAFETY INTERLOCK SWITCHES.

10. PROVIDE AIR HANDLING UNIT WITH OZONE GENERATOR FOR AIR CLEANING APPLICATIONS. UNIT SHALL BE 24 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS AND ACCESS DOOR SAFETY INTERLOCK SWITCHES.

11. PROVIDE AIR HANDLING UNIT WITH PHOTOCATALYTIC PANELS FOR AIR CLEANING APPLICATIONS. UNIT SHALL BE 24 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS AND ACCESS DOOR SAFETY INTERLOCK SWITCHES.

12. PROVIDE AIR HANDLING UNIT WITH OZONE GENERATOR FOR AIR CLEANING APPLICATIONS. UNIT SHALL BE 24 VOLTS AC AND INTERLOCKED TO OPERATE WITH AHU SUPPLY FAN CONTROL CIRCUIT; PROVIDE WITH ALL NECESSARY RELAYS AND ACCESS DOOR SAFETY INTERLOCK SWITCHES.

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**INTERIOR RENOVATION**  
**Disposal Location.**

**Vertical Air Handling Unit Detail**
- Flexi-Mark Connection
- Vertical Air Flow
- Ceiling Finished Floor

**Structural Details**
- AHU Number and Size Per Finished Floor
- Not to Scale
- Motor (ECM)
- Commutated Electronically

**Auxiliary Drain**
- Typical Rectangular Transition
- Round Branch Takeoff

**Construction of Branch Takeoffs from Main on Plans**
- Where Round 90° Ells are Shown on Plans or If Space Conditions Do Not Permit, Use This Design

**Rectangular Duct Hanger Schedule (Minimum Sizes)**

**Duct Hanger Detail**
- Not to Scale

**Duct Tee Connection Detail**
- Not to Scale

**V-2 Wiring Pack**
- Not to Scale

**Typical Diffuser Connection**
- Not to Scale

**In-Line Ceiling Exhaust Fan Detail**
- Not to Scale

**Installations Notes**
- 1" x 16 GA.
- 1" x 22 GA.
- 1" x 18 GA.
- 1" x 20 GA.

**Diverging Transition Pieces**
- Made as Gradual Construction in an Approved Manner

**Volume Damper**
- Stainless Steel Clamp Volume Damper

**Typical Low Pressure Branch Duct Take-Off**
- Not to Scale

**Low Pressure Branch Duct Take-Off**
- Not to Scale

**Compact Duct/Transition**
- Not to Scale

**Typical Refrigerant Piping Detail**
- Not to Scale

**Typical Diffuser Connection**
- Not to Scale

**In-Line Ceiling Exhaust Fan Detail**
- Not to Scale