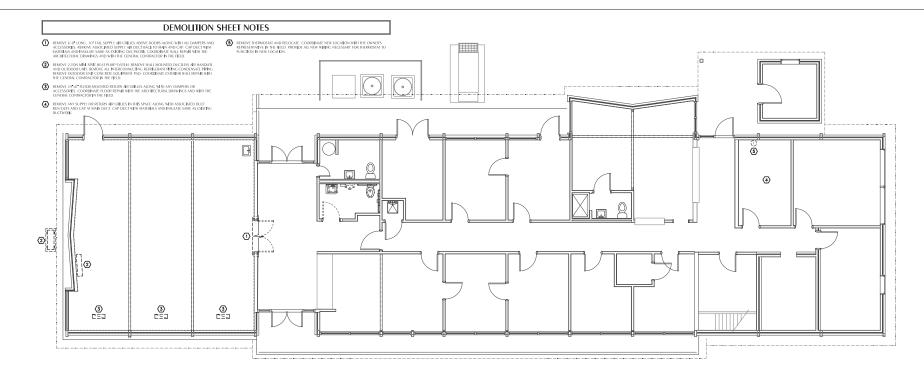
M1.0,



1 HVAC DEMOLITION FLOOR PLAN

GENERAL NOTES

- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR A OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS
- ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF LO FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING AND THE CENERAL CONTRACTORS IN THE FIELD.
- THE RECEIVAGE A CONDUCTION OF THE YELL MECHANICAL CALIFFORM LOCALISMS AND RESPONDED FOR ALL BALBED CLARISMS IN THE RESPONDED ADDITION AND ALL BALBED CLARISMS IN THE RESPONDED ADDITION AND ALL BALBED CLARISMS AND FACE IN FROME CLARISMS AND FACE IN FROME CLARISMS FOR PROPE CLARISMS FOR PROPE AND ALL BALBED BALBED ALL COLD RESPONDED AND ADDITION AND ALL BALBED ALL BALBED ALL BALBED AND ADDITION AND ADDITIONAL ADDITION AND ADDITIONAL A
- PROVIDE WATER PROOF SEALING OF ALL PIPE AND DUCT PENETRATIONS OF EXTERIOR WALLS FLOORS, AND/OR ROOF.
- ALL DUCTWORK AND PIPING PENETRATING FIRE RATED WALLS SHALL BE FIRE STOPPED. HRE DAMFERS SHALL BE PROVIDED IN ALL DUCTWORK PENETRATIONS OF FIRE RATED WALLS AND FLOORS WHETHER INDICATED OR NOT.

SEQUENCE OF OPERATION

PROVIDE PACIACED HEAT PLINP UNIT (PHP) WITH AN AUTOMATIC OUTSIDE AIR DAMPER. THE OUTSIDE AIR DAMPER SHALL REMAIN OPEN TO ITS BALANCED POSITION AND THE INDOOR FAN SHALL REMAIN IN RECEIVED DURING ALL OCCUPIED TIMES.

THE HEAT PUMP SHALL USE THE MANUFACTURER'S STANDARD SEQUENCE OF OPERATION INCLUDING A HOLD CAS REHEAT COIL.

COOLING/DEHUMORICALION
A CALL FOR COOLING FRAM THE SPACE THERMOSTAT SHALL ENERCIZE THE REFRIGERATION CIRCUITS
IN STACES AS DICTATED BY THE HEAT PLAMP LINTS INTERNAL CONTROLS ALL REFRICERATION
CIRCUITS SHALL BE DE-ENERCIZED WHEN THE SPACE TEMPERATURE REQUIREMENT HAS BEEN MET.

A CALL FOR DEHAMOIFICATION FROM THE SPACE HUNDISTAT SHALL OVERFIDE THE SPACE TEMPERATURE REQUIREMENT AND FORCE ALL REPROCEPTION CRICUITS TO BECOME ENERGIZED. REPROCEPTION OF THE SPACE AND THE SECON PRESENTATION FOR SERVICE AND THE SPACE WAS REPROCEDED FOR SECON PRESENTATION FOR THE SPACE AND THE

HEATON A CAUTH OF HEATON FROM THE SPACE THERMOSIAL SHALL ENGELIZE THE RESPECEMBEN CIRCLES IN SEVERE SHALL SHALL ENGELIZE THE RESPECEMBEN CIRCLES IN SEVERE SHALL BE SHALL BY THE HEAT FRAME LITTLES HEATON CIRCLES SHALL BE DE ENERGIZED WHEN THE SPACE TEMPERATURE SECURIOREN HAS BEEN HIT.

IF THE SPICE HEATING REQUIREMENTS CAN NOT BE MET USING THE REVERSE CYCLE ALONE, THE ELECTRIC HEATER WILL BE ENERGIZED IN STACES AND CONTROLLED BY THE HEAT FUND FUNTS INTERNAL CONTROLS OF PROMISE SUPPLIENTIAL HEAT THE ELECTRIC HEATER AND THE REFISICERATION CIRCUITS SHALL BE DE-ENERGIZED WHEN THE SPICE TEMPERATURE REQUIREMENT HAS BEEN MET.

UNOCCUPED MODE
WHEN THE SPACE IS UNOCCUPED, THE UNITS SHALL OPERATE SAME AS DESCRIBED ABOVE. THE
OUTSIDE AR AUTOMATIC CONTROL DAMPER SHALL REMAIN COMPLETELY CLOSED.

DUCTWORK & INSULATION NOTES

- ALL SUPPLY, RETURN, OUTSIDE, AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE. BECIDANCILLAR OR ROUND CAUNANGED MEDIA, AS INDICATED, SAMACAN SAURE PRESSURE CLASS. IT WG., S. SAL CLASS, B. DETRENAUT INSULATED WITH A WINDRAM RISTALLED R-VALUE OF 8.0. EVALUE OF 8.0. EVALUE OF 8.0.
- DUCTWORK THAT IS EXPOSED TO WEATHER SHALL BE EXTERNALLY INSULATED METAL DUCT SAME AS DESCRIBED ABOVE WITH THE ADDITION OF THE FOLLOWING:
- 34. THE ENTIRE OUTER SURFACE OF THE INSULATION SHALL BE COVERED WITH TWO COATS OF WEATHER BARRIER MASTIC REINFORCED WITH FABRIC OR MESH DESIGNED FOR OUTDOOR APPLICATION. EACH COAT SHALL BE MINNOUM 1716 INCH IN THICKNESS.
- 3b. AFTER THE APPLICATION OF THE WEATHER BARRIER MASTIC, THE ENTIRE EXTERIOR SHALL BE COVERED WITH A MINIMUM 0.016 INCH THICK SMOOTH ALLUMPHUM MICHET LACET SHALL BE INSTALLED SO THAT THE LONGTUDINAL SEAMS ARE POSITIONED TO SHED WATER.
- AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. WHERE DUCTWORK MIST BE ROUTED OVER LIGHTS, MAINTAIN A 2° CLEARANCE BETWEEN DUCT INSULATION AND TOP OF LIGHTS.

HVAC LEGEND

EXISTING DUCTWORK AND EQUIPMENT TO BE REMOVED

10°x8°

10.0

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RECTANGULAR DUCT WORK, SIZES SHOWN ARE INSIDE CLEAR. SEE 'DUCTWORK' & INSULATION NOTES' ON THIS SHEET.

SQUARE THROAT ELBOW IN RECTANGULAR DUCTWORK WITH DOUBLE WALL TURNING VANES.

LONG RADIUS ELBOW IN ROUND "SNAPLOCK" DUCT. TURNING RADIUS SHALL BE MINIMUM 1-1/2. TIMES THE DUCT DIAMETER.

FACTORY FABRICATED AND INSULATED FLEXIBLE ROUND DUCT. SIZE SHOWN IS INSIDE CLEAR DIMENSION. RECTANCULAR BRANCH DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT. TAILEOFF SHALL BE MADE WITH A 45 DECREE COLLAR.

ROUND BRANCH DUCT TAKEOFF FROM RECLANCILIAR MAIN DUCT BRANCH DUCT SHALL BE FLEXBLE ROUND DUCT OR ROLAND METAL "SAMFOCE DUCT AS NODCATED ROUND DUCT TARIN SHALL BE MADE WITH 45 DECREE SIDE DRECOFF FITTING WITH MANUAL VOLUME DAMPER SEE ROUND DUCT TARIN SHOUNDED CERTAIN DUCKTORAPIN MOUNTING CEDRAL ON SHEET MIL 02. ₹

MANUAL VOLUME DAMPER IN RECTANGULAR DUCT. PROVIDE OPPOSED BLADE TYPE WITH LOCKING QUADRANT RECULATOR. ACD SHALL BE LOW VOLTAGE AND WIRED BY THE MECHANICAL CONTRACTOR. MVD

 \boxtimes RECTANGULAR SUPPLY OR OUTSIDE AIR DUCTWORK IN SECTION. RECTANGULAR RETURN OR EXHAUST AIR DUCTWORK IN SECTION.



CEITING DIFFUSER. LOUVERED FACE, AIR FLOW AS INDICATED, SQUARE FACE DIMENSIONS AND ROUND NECK SIZE AS INDICATED IN "AIR DEMOC SCHEDULE" ON SHEET M2.01. DIRECTION OF THARCW AS INDICATED BY ARROWS. CONSTRUCTED FROM AUDINIUM. THUS MODEL TIM-SAA OR APPROVED EQUIVALENT, SEE SQUARE CEITING DIFFUSER MOUNTING DETAIL ON SHEET M1.02.

RETURN CRILLE, ECG CRATE FACE WITH 1/2*x1/2*x1/2* ALUMINUM CORE. AIR FLOW AS INDICATED, RECTANGULAR NECE SIZE AS INDICATED IN 'AIR DEVICE SCHEDULE ON SHEET M1.02. THUS MODEL 50F OR APPROVED EQUIVALENT. RG-X

SOFIT CRILLE. FIXED LOUVERS PARALLEL TO THE LONG DIMENSION SPACED AT 3/4* AND SET AT 3.5 DEGREE DEFLECTION. AIR FLOW AS INDICATED RECLANDULAR NECK SIZE AS INDICATED 10 YAR DEVICE SCHEDULE ON SHEE MI. 02. CONSTRUCTED FROM ALLMINUM. ITIUS MODEL 550FL OR APPROVED EQUIVALENT.

UNDERCUT DOOR 1° TO ALLOW AIR FLOW IN THE DIRECTION INDICATED.

SUPPLY AND OUTSIDE AIR FLOW. -RETURN AND EXHAUST AIR FLOW

0 THERMOSTAT. NUMBER REFERS TO THE PHP. EF-# EXHAUST FAN, SEE 'FAN SCHEDULE' AND 'CEILING EXHAUST FAN INSTALLATION DETAIL ON SHEET M1.02.

PACKACED HEAT PUMP LINE. SEE 'SPILE SYSTEM HEAT PUMP LINE SCHEDLLE' ON SHEET MIL 02. DAH-# DUCTLESS AIR HANDLER. COOLING-ONLY, MINLSPLIF SYSTEM WALL-MOUNTED AIR HANDLER. SEE 'MINI SPLIF SYSTEM INDOOR UNIT SCHEDULE' ON SHEET MI.OZ.

DHP-# DUCTLESS HEAT PUMP UNIT. SEE 'MINI SPLIT SYSTEM OUTDOOR UNIT SCHEDULE' ON SHEET M1.02. EXISTING





M1.02

CMC Project #: APEN240038

City of Milton Utility Workforce Training / Operations Facility in Conjunction with Agreement 6794 bloom st. Milton, FL

Documents 08\08\5 ISSUE DATE

