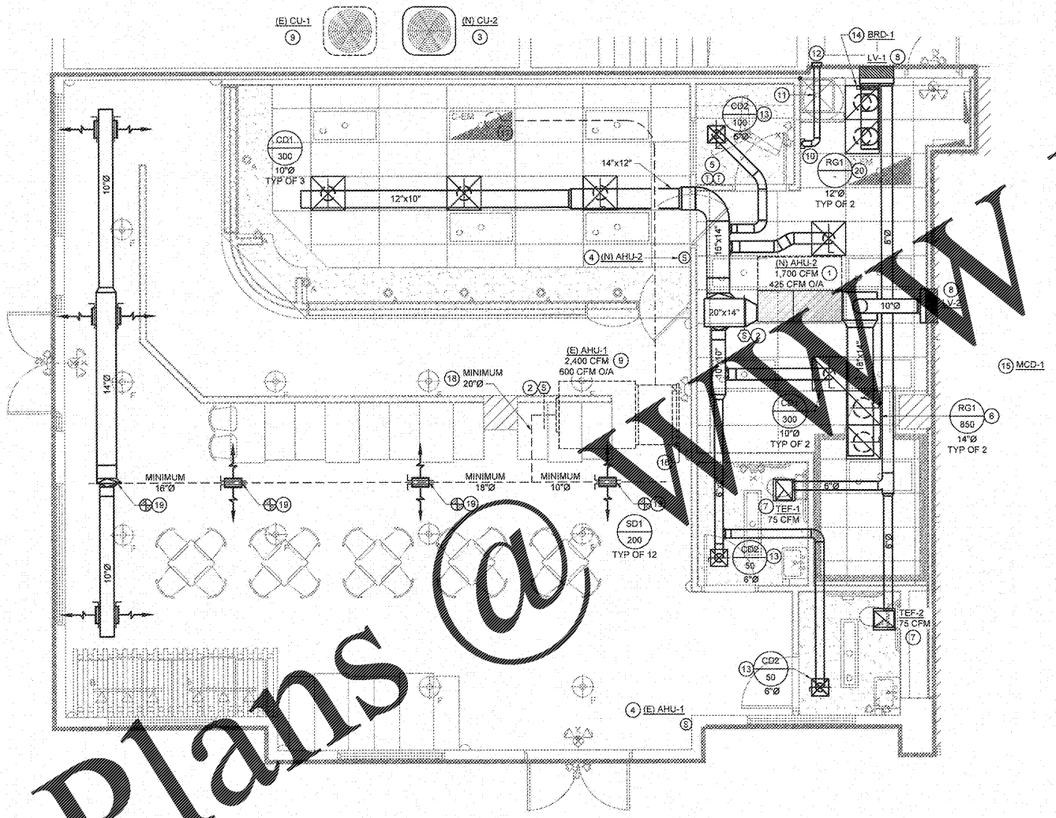

GENERAL NOTES

A.	ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
B.	PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
C.	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
D.	THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING AND HEADS (WHERE INCLUDED IN THE PROJECT) FOR A COMPLETE INSTALLATION.
E.	LOCATIONS FOR THERMOSTATS AND REMOTE SENSORS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL-MOUNTED DECOR OR PROXIMITY TO HEAT PRODUCING EQUIPMENT.
F.	ALL HVAC AND RESTROOM EXHAUST DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE UNDER THE ROOF STRUCTURE.
G.	ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS; AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
H.	ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCTS SHALL BE 5'-0". FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO SUPPLY AIR DEVICES OR PLENUM.
I.	SUPPLY, RETURN, RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS WITH AIRTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNO).
J.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK PLEATED MERV 7 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
K.	AT THE START OF CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY THE VERTICAL CLEARANCE REQUIRED FOR INSTALLATION OF EQUIPMENT AND DUCTWORK IN COORDINATION WITH EXISTING CONDITIONS, INCLUDING ROOF STRUCTURE, AND PROVIDE DIRECTION TO THE GENERAL CONTRACTOR FOR FINISHED CEILING HEIGHTS AND ROOF OPENINGS. ANY REQUIRED DEVIATION FROM THE HEIGHTS SHOWN ON THE ARCHITECTURAL CEILING PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND TENANT'S CONSTRUCTION MANAGER.

KEYED NOTES

1	NEW AIR HANDLING UNIT SHALL BE SUSPENDED FROM STRUCTURE IN HORIZONTAL POSITION. BRACE PER LOCAL CODES AND AHJ REQUIREMENTS. PROVIDE UNIT WITH AUXILIARY DRAIN PAN AND CONDENSATE OVERFLOW SENSOR. ROUTE FULL SIZE CONDENSATE DRAIN DOWN TO NEAREST FLOOR SINK WITH AIR GAP PER LOCAL CODE. INSTALL COMPLETE WITH FLEXIBLE CONNECTIONS AT EQUIPMENT. PROVIDE 1/2" INTERNALLY LINED ACOUSTIC INSULATION FOR RETURN DUCTWORK AND THE FIRST 10'-0" OF SUPPLY DUCTWORK. REPLACE AIR FILTER (MIN MERV-8) AFTER COMPLETION OF CONSTRUCTION, PRIOR TO OCCUPANCY.
2	SUPPLY DUCT MOUNTED SMOKE DETECTOR CAPABLE OF SHUTTING DOWN THE RESPECTIVE MECHANICAL UNIT UPON ACTIVATION. COORDINATE REQUIRED WORK WITH THE ELECTRICAL CONTRACTOR. SMOKE DETECTORS SHAL BE CONNECTED TO THE BUILDING FIRE ALARM CONTROL UNIT WHEN A FIRE ALARM SYSTEM IS REQUIRED BY SECTION 907.2. ACTIVATION OF A DUCT SMOKE DETECTOR SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION AND SHALL PERFORM THE INTENDED FIRE SATIETY FUNCTION IN ACCORDANCE WITH FLORIDA BUILDING CODE.
3	NEW CONDENSING UNIT SHALL BE ROOF MOUNTED ON EXISTING NOA PREFABRICATED/PRE-ENGINEERED ALUMINUM ROOF TOP CONDENSER STAND, INSTALLED TO RESIST WIND PRESSURES AT VELOCITIES INDICATED PER FBC SECTION 1620 (REF STRUCTURAL PLANS AND CALCULATIONS). ROUTE REFRIGERANT PIPING THRU ROOF AND SEAL PENETRATION WEATHER TIGHT. COORDINATE FINAL LOCATION WITH LANDLORD AND OWNER REPRESENTATIVES. TOTAL REFRIGERANT PIPING EQUIVALENT LENGTH SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.
4	NEW WALL MOUNTED REMOTE TEMPERATURE SENSOR SHALL BE MOUNTED AT 54" AFF, AND WIRED BACK TO RESPECTIVE THERMOMETER. COORDINATE PLACEMENT WITH WALL DECOR AND EQUIPMENT. FIELD VERIFY WITH THE TENANT'S REPRESENTATIVE FOR THE FINAL LOCATION PRIOR TO INSTALLATION.
5	PROGRAMMABLE THERMOSTATS AS SHOWN, MOUNTED AT 48" AFF AND CLEARLY LABELED. VERIFY FINAL PLACEMENT WITH G.C. AND PROJECT MANAGER
6	ALL RETURN GRILLE AIR QUANTITIES LISTED ARE FOR STANDARD OPERATING HOURS. REFER TO SHEET M2.0 FOR AIR BALANCE REPORT ON DESIGN AIRFLOW RATES.
7	PROVIDE CEILING MOUNTED CABINET FAN FOR EXHAUST. EXTEND 8"Ø EXHAUST MAIN TO NEW LOUVER. EXHAUST DUCT TERMINATION SHALL MAINTAIN A 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKE OPENINGS. RESTROOM FAN SHALL BE INTERLOCKED WITH RESPECTIVE LIGHT SWITCH FOR SIMULTANEOUS OPERATION.
8	PROVIDE AND INSTALL NEW LOUVER AND INSULATED LOUVER PLENUM. LOCATE PER FRANCHISE OWNER/LL'S DIRECTION AND APPROVAL
9	EXISTING AIR HANDLING UNIT AND ASSOCIATED ROOF MOUNTED CONDENSING UNIT TO REMAIN. REPLACE AIR FILTER (MIN MERV-8) AFTER COMPLETION OF CONSTRUCTION, PRIOR TO OCCUPANCY. IF NOT EXISTING, PROVIDE AND INSTALL DRAIN PAN AND TRAP/OVERFLOW SENSOR. IF REQUIRED, ROUTE FULL SIZE CONDENSATE AND AUXILIARY OVERFLOW PAN DRAINS DOWN TO APPROVED RECEPTOR WITH AIR GAP. COORDINATE WITH ELECTRICAL CONTRACTOR IF CONDENSATE PUMP IS REQUIRED.
10	PROVIDE EXHAUST BOX RECESSED IN WALL FOR STACKABLE WASHER/DRYER. MOUNT BOTTOM OF BOX AT 60" A.F.F. VERIFY REQUIRED ROUGH-IN WITH TENANT PRIOR TO INSTALLATION.
11	ROUTE 4"Ø GALVANIZED SHEET METAL (26 GA.) CLOTHES DRYER VENT FROM CLOTHES DRYER, UP ABOVE CEILING, AND THROUGH EXTERIOR WALL. VERIFY EXACT ROUTING OF DUCT IN FIELD.
12	TERMINATE AT WALL WITH DRYER VENT CAP AND BACKDRAFT DAMPER (NO SCREWS). MAINTAIN MINIMUM 3'-0" CLEARANCE FROM PROPERTY LINE AND BUILDING OPENINGS.
13	DIFFUSER IN HARD LID CEILING SHALL HAVE INTEGRAL VOLUME DAMPER.
14	PROVIDE AND INSTALL BAROMETRIC RELIEF DAMPER AS SCHEDULED FOR BAROMETRIC PRESSURE RELIEF.
15	ROUTE NEW 10"Ø OUTDOOR AIR DUCT TO NEW AIR INTAKE LOUVER PLENUM. PROVIDE MOTORIZED DAMPER THAT WILL AUTOMATICALLY SHUTOFF WHEN (N) AHU-2 SYSTEM IS NOT IN USE.
16	EXISTING FULL SIZE RETURN AIR OPENING WITH 1/2" WIRE MESH SCREEN TO REMAIN. REFER TO SHEET M2.0 FOR AIR BALANCE REPORT ON DESIGN AIRFLOW RATES.
17	EXISTING MINIMUM 12"Ø OUTDOOR AIR DUCT WITH TERMINATION AT ROOF TO REMAIN. FIELD VERIFY SIZE, LOCATION, AND CAPABILITY TO HANDLE AIRFLOW REQUIREMENTS.
18	EXISTING SUPPLY MAIN TO REMAIN - FIELD VERIFY SIZE, LOCATION, AND CAPABILITY TO HANDLE SPECIFIED AIRFLOWS.
19	CONNECT NEW SUPPLY DIFFUSER AND/OR DUCT TO EXISTING MAIN. FIELD VERIFY LOCATION, SIZE, AND CONDITION OF CONNECTIONS.
20	EXTEND 12"Ø BRANCH DUCT UP TO BAROMETRIC RELIEF AIR 14"X14" MAIN DUCT CONNECTED TO NEW EXHAUST AIR LOUVER PLENUM.

MECHANICAL FLOOR PLAN
1/4"=1'-0"

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DRAWN BY: CS CHECKED BY: AH

PROJECT NUMBER: 17-598

DATE: 10-24-2017

MECHANICAL FLOOR PLANS

M1.0