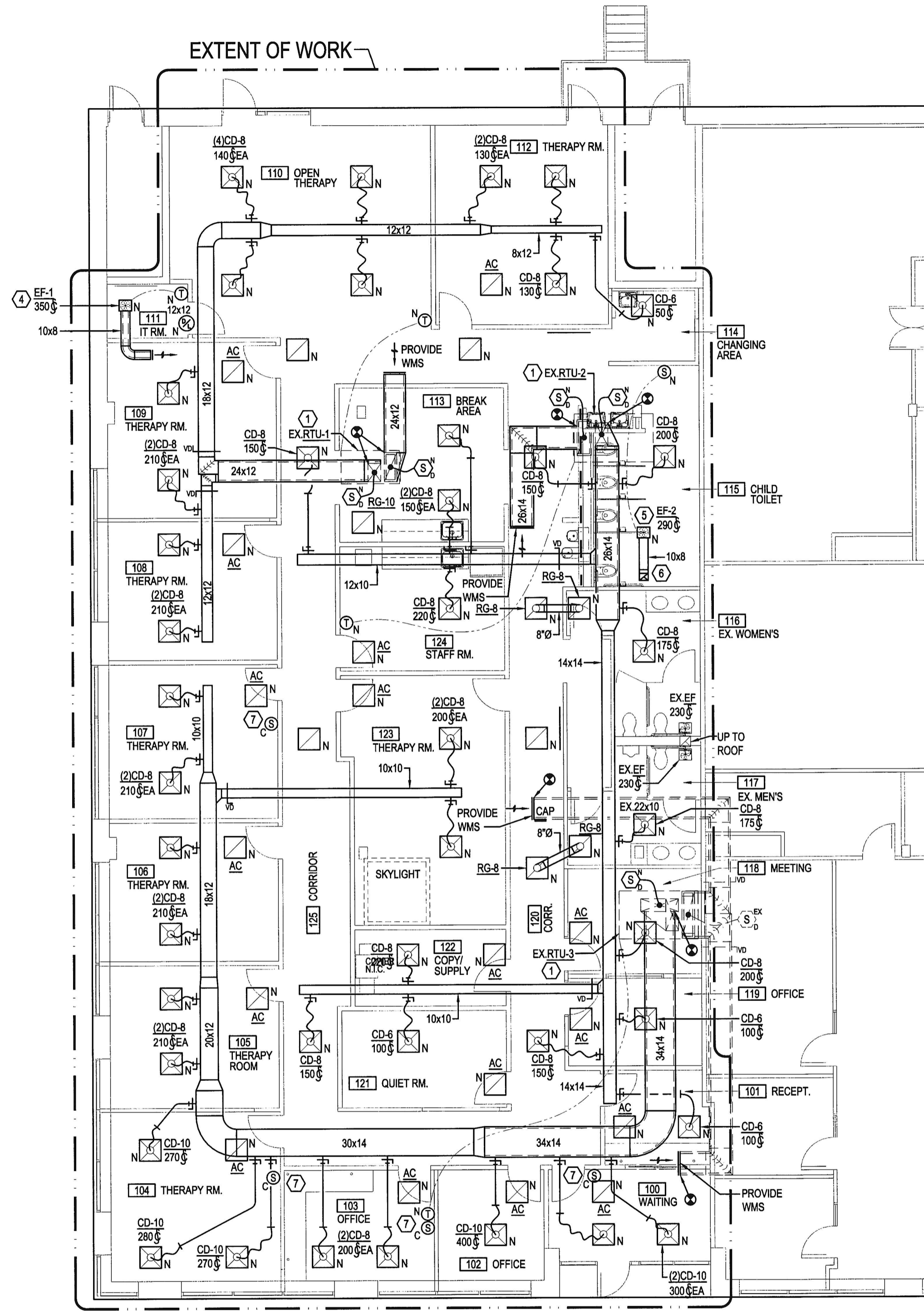


DEMOLITION - FLOOR PLAN
MECHANICAL



NEW WORK - FLOOR PLAN
HVAC

DRAWING NOTES:

- FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING M1. SEE GENERAL NOTES AND MECHANICAL SPECIFICATIONS ON M1 FOR MORE REQUIREMENTS.
- THESE DRAWINGS ARE DIAGRAMMATIC AND HAVE BEEN VERIFIED TO GREAT EXTENT; HOWEVER, ACTUAL FIELD CONDITIONS MAY VARY. CONTRACTOR SHALL ADJUST DUCTWORK AS REQUIRED KEEPING DESIGN INTENT IN MIND.
- PRIOR TO SUBMITTING BID, MECHANICAL CONTRACTOR SHALL VISIT PROPOSED SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. THE CONTRACTOR SHALL REPORT ANY DIFFERENCES AND NOTIFY ARCHITECT/ENGINEER SO THAT MORE INFORMATION OR NEW AND REVISED BID DRAWINGS CAN BE ISSUED. ANY CONFLICTS TO THE SCOPE OF WORK WHICH RESULTS FROM CONTRACTOR'S NEGLIGENCE TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTOR'S SO RESPONSIBILITY.
- PRIOR TO SUBMITTING BID, MECHANICAL CONTRACTOR SHALL FIELD VERIFY THAT ALL NEW EQUIPMENT, DUCTWORK AND DIFFUSERS ARE NOT IN ANY CONFLICT WITH ANY EXISTING DUCTWORK, PIPING, AND CONDUITS. IF A CONFLICT SHALL OCCUR RELOCATE OBSTRUCTION AS REQUIRED. COORDINATE WITH APPROPRIATE CONTRACTOR, IF RELOCATION IS NOT FEASIBLE, ADJUST NEW DUCTWORK TO MISS OBSTRUCTION. SUBMIT PROPOSED NEW LAYOUT TO ENGINEER.
- MECHANICAL CONTRACTOR SHALL INSTALL NEW AIR FILTERS IN ALL MECHANICAL EQUIPMENT UPON COMPLETION OF CONSTRUCTION WORK, INCLUDING PERIMETER UNITS AS APPLICABLE. PROVIDE FILTER RACK IF NONE IS PRESENT.
- CONTRACTOR SHALL PROVIDE CONSTRUCTION FILTERS ON ALL RETURN INLETS SERVING HVAC SYSTEM AND TRANSFER GRILLES/DUCTS TO ADJACENT SPACES. COORDINATE WITH BUILDING PROJECT MANAGER.
- DUCT SIZE SHOWN REPRESENTS THE INSIDE FREE AREA.
- DUE TO THE SMALL SCALE OF THE DRAWINGS, NOT ALL OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED ARE INDICATED.
- USE RECTANGULAR TO ROUND TRANSITION FROM DOWNSTREAM DUCTWORK TO FLEXIBLE DUCTWORK WHENEVER DUCT SIZE DIFFERENCE IS LESS THAN 2".
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL VIBRATING EQUIPMENT AND ASSOCIATED DUCTWORK.
- THERMOSTAT LOCATIONS PROVIDED FOR REFERENCE ONLY. THERMOSTATS SHALL NOT BE LOCATED BEHIND CURTAINS, FURNITURE, OR DOORS WHEN OPEN. COORDINATE FINAL LOCATIONS WITH FURNITURE AND ARCHITECTURAL PLANS.
- DIFFUSER AND REGISTER LOCATIONS PROVIDED FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH FINAL REFLECTED CEILING LAYOUT.
- INSTALL DUCTWORK TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED FOR LIGHTS AND SPRINKLER SYSTEMS. INSTALL TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED.

KEYED NOTES:

- EXISTING UNIT TO REMAIN. UNIT SHALL BE PUT IN PROPER WORKING ORDER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL TEST AND BALANCE UNIT. BALANCE READING SHALL BE TAKEN WITH ALL REGISTER / DIFFUSER DAMPERS 100% OPEN. REPORT AT MINIMUM SHALL INCLUDE SUPPLY, RETURN, AND OUTDOOR AIR MEASUREMENTS, TSP / ESP, SUPPLY / RETURN / OA TEMP READINGS AT DATE OF REPORT, AND SUPPLY FAN SPEED TAP. REPORT ANY DEFICIENCIES TO OWNER AND ENGINEER. PROVIDE BALANCING REPORT TO OWNER AND ENGINEER.
- REMOVE EXISTING FAN AND ALL ASSOCIATED CONTROLS, DUCTWORK AND WIRING.
- REMOVE GOOSENECK. PATCH HOLE IN ROOF TO MATCH EXISTING. PRIOR TO ANY ROOF WORK BEING DONE, CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT SO NO ROOF WARRANTIES ARE VOID.
- NEW CEILING MOUNTED EXHAUST FAN. DISCHARGE INTO PLENUM. PROVIDE WMS OVER OPENING. REFER TO DETAIL AND SCHEDULE.
- NEW CEILING MOUNTED EXHAUST FAN. REFER TO DETAIL AND SCHEDULE.
- EXTEND EXHAUST DUCT UP THROUGH ROOF TO GOOSENECK. MAINTAIN 10'-0" FROM ANY FRESH AIR OPENINGS.
- WALL MOUNTED TEMPERATURE / ZONE SENSOR. INTERLOCK WITH RTU AND TEMPERATURE AVERAGING SYSTEM. CONTROLLER: RELIATEL / BCI-R UN0082 OR EQUAL.
- REMOVE EXISTING WALL MOUNTED DUCTLESS SPLIT SYSTEM IN ITS ENTIRETY. INCLUDING INDOOR UNIT, OUTDOOR UNIT, REFRIGERANT PIPING, AND ALL WIRING. PATCH ANY ROOF PENETRATIONS AND COORDINATE ALL ROOF WORK WITH BUILDING MANAGEMENT SO NO ROOF WARRANTIES ARE VOID.

BALANCING SCHEDULE:

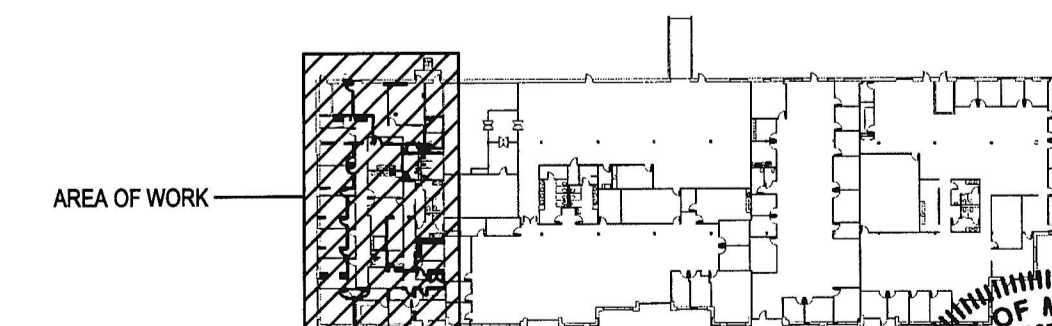
EQUIPMENT DESIGNATION	TONS	SUPPLY AIR	OUTDOOR AIR	EXHAUST AIR
EX.RTU-1	7.5	1,850	185	000
EX.RTU-2	5.0	2,410	241	000
EX.RTU-3	10.0	3,880	388	000
EX.EF	0.0	0,000	000	230
EX.EF-2	0.0	0,000	000	230
NEW EF-2	0.0	0,000	000	290
TOTAL:	22.5	8140	814	750
SPACE PRESSURE:		+64CFM		

DESIGN REQUIREMENTS:

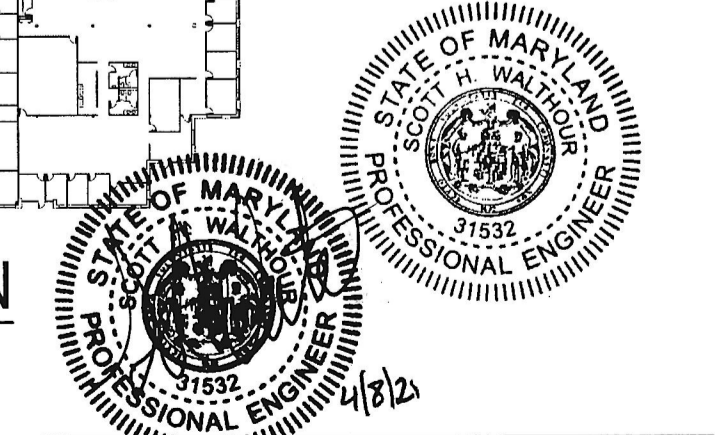
- REMOVE PVC IN PLENUM AND REPLACE WITH CAST IRON OR COPPER AS REQUIRED.
- PROVIDE METAL JACKET AROUND ALL WIRING.
- CLEAN ANY EXISTING DUCTWORK THAT IS BEING REUSED.

Scott H
Walthour

Digitally signed by Scott H
Walthour
Date: 2021.03.03 22:10:30
-05'00'



KEY PLAN
NO SCALE



RECEIVED

APR 09 2021

LICENSES & PERMITS
DIVISION

PROJECT: LITTLE LEAVES BEHAVIORAL SERVICES
PROJECT FILE NAME: CSB/LLBS
PROJECT LOCATION: GROUND LEVEL SUITE 100, 7190 COLUMBIA GATEWAY DRIVE, COLUMBIA, MD 21046
PROJECT MANAGER: COPT CORPORATE OFFICE PROPERTIES TRUST, 8711 COLUMBIA GATEWAY DRIVE, SUITE 300, COLUMBIA, MARYLAND 21046, PHONE: 443-285-5884
ARCHITECT / MEP ENGINEER: ARJUM | AE, 5627 TRINA WALKER ROAD, SUITE 425, COLUMBIA, MD 21046, PHONE: 410-206-2200, WASHINGTON DC 20004, WWW.ARJUM.COM
ISSUE DATE: 03 MAR 2021
LATEST REVISION: SM SHW
BY: EMH
DATE: 03/03/2021
DWG NO. M2

CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER: 31532 EXP. DATE: 3/14/2023

REVIEWED FOR CODE COMPLIANCE
Department of Inspections,
Licenses and Permits
Howard County
Date: 03/16/21
By: Adolphe Hurtaux