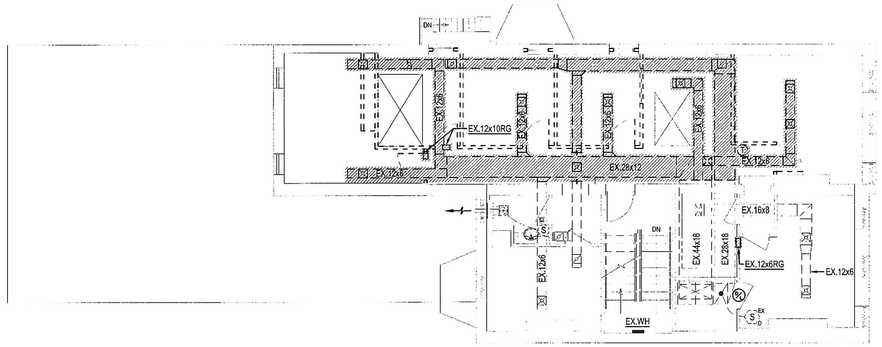


TRUE NORTH

PLAN NORTH

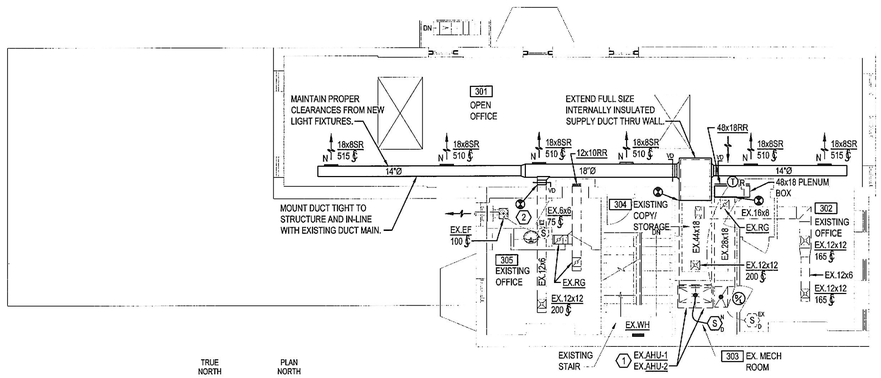
0 2' 4' 8' 16'

SCALE 1/8" = 1'-0"

CRITICAL DIMENSIONS SHALL NOT BE SCALED

EXISTING CONDITIONS HAVE BEEN PARTIALLY FIELD VERIFIED BY ARIUM ⌀, LLC.

DEMOLITION - FLOOR PLAN MECHANICAL



TRUE NORTH

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SCALE 1/8" = 1'-0"

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NEW WORK - FLOOR PLAN HVAC

DRAWING NOTES:

1. FOR SYMBOLS AND ABBREVIATIONS, SEE DRAWING M1. SEE GENERAL NOTES AND MECHANICAL SPECIFICATIONS ON M1 FOR MORE REQUIREMENTS.
2. 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.
3. 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 NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTOR'S SO RESPONSIBILITY.
4. 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.
5. MECHANICAL CONTRACTOR SHALL INSTALL NEW AIR FILTERS IN ALL MECHANICAL EQUIPMENT UPON COMPLETION OF CONSTRUCTION WORK, INCLUDING PERIMETER UNITS AS APPLICABLE.
6. CONTRACTOR SHALL PROVIDE CONSTRUCTION FILTERS ON ALL RETURN INLETS SERVING HVAC SYSTEM AND TRANSFER GRILLES/DUCTS TO ADJACENT SPACES. COORDINATE WITH BUILDING PROJECT MANAGER.
7. DUCT SIZE SHOWN REPRESENTS THE INSIDE FREE AREA.
8. DUE TO THE SMALL SCALE OF THE DRAWINGS, NOT ALL OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED ARE INDICATED.
9. USE RECTANGULAR TO ROUND TRANSITION FROM DOWNSTREAM DUCTWORK TO FLEXIBLE DUCTWORK WHENEVER DUCT SIZE DIFFERENCE IS LESS THAN 2".
10. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL VIBRATING EQUIPMENT AND ASSOCIATED DUCTWORK.
11. THERMOSTAT LOCATIONS PROVIDED FOR REFERENCE ONLY. THERMOSTATS SHALL NOT BE LOCATED BEHIND CUBES, FURNITURE, OR DOORS WHEN OPEN. COORDINATE FINAL LOCATIONS WITH FURNITURE AND ARCHITECTURAL PLANS.
12. DIFFUSER AND REGISTER LOCATIONS PROVIDED FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH FINAL REFLECTED CEILING LAYOUT.
13. INSTALL DUCTWORK TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED FOR LIGHTS AND SPRINKLER SYSTEMS. INSTALL TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED.
14. ALL NEW EQUIPMENT SHALL BE INSTALLED TO MAINTAIN ALL REQUIRED MAINTENANCE AND NEC CLEARANCES.
15. CONTRACTOR SHALL PATCH/REPLACE ALL ASSEMBLIES (WALL, ROOF, SLAB, GRID/CEILING, ETC.) WHERE OPENINGS ARE CREATED FROM DEMOLISHED OR NEW EQUIPMENT, PIPING, OR DUCTWORK. PROVIDE FIRE-STOP WHERE REQUIRED.
16. CONTRACTOR SHALL MAINTAIN ALL CONTROL, ELECTRICAL WIRING, AND CONDUIT SERVING EQUIPMENT AND SYSTEMS NOT BEING DEMOLISHED.
17. ALL DUCTWORK (EXCEPT EXHAUST) SHALL BE INSULATED. IN AREAS WITH EXPOSED DUCTWORK (OPEN CEILING), INSULATION SHALL BE INTERNAL.
18. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, RETURN AND EXHAUST TAPS.
19. PROVIDE ACCESS PANELS WHERE REQUIRED FOR ALL FIRE DAMPERS AND VOLUME DAMPERS. PROVIDE PERMANENT LABELS FOR FIRE DAMPERS AS REQUIRED. COORDINATE LOCATION AND PLACEMENT OF ACCESS PANEL WITH THE ARCHITECT.
20. MAINTAIN NEC REQUIRED CLEARANCES ABOVE ALL ELECTRICAL PANELS, TRANSFORMERS, ETC. NO DUCTWORK, EQUIPMENT OR PIPING MAY BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
21. CONTRACTOR SHALL CAP ALL UNUSED TAPS.
22. RETURN AIR SHALL BE THROUGH RETURN GRILLES UNLESS OTHERWISE NOTED.
23. PROVIDE WIRE MESH SCREEN (WMS) FOR ALL TRANSFER AIR DUCTS (TAD). ALL TAD'S SHALL BE SOUND-LINED.
24. REUSE EXISTING DIFFUSERS AND RETURN GRILLES AS INDICATED ON THE FLOOR PLANS. DIFFUSER NECK SIZES MUST MATCH CEILING DIFFUSER SCHEDULE ON DRAWING M1. IF DIFFUSER LABEL (i.e. CD-8) REQUIRES AN 8" ROUND NECK DIFFUSER AND FLEXIBLE DUCT AND THE EXISTING DIFFUSER HAS A 6" ROUND NECK AND FLEXIBLE DUCT, BOTH DIFFUSER AND FLEXIBLE DUCT CANNOT BE REUSED. RETURN ANY UNUSED DIFFUSERS TO BUILDING OWNER. CLEAN AND VACUUM RELOCATED AND EXISTING TO REMAIN DIFFUSERS.
25. REFER TO THIS SHEET FOR VENTILATION CALCULATIONS. CONTRACTOR TO BALANCE OA PER VENTILATION CALCS UNLESS ALREADY BALANCED HIGHER. THEN, EXISTING OA BALANCING TO REMAIN.
26. ANY SMOKE DETECTORS SHOWN ON THE PLAN ARE SHOWN FOR CODE COMPLIANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY DURING BIDDING TO DETERMINE IF DUCT SMOKE CAN BE USED OR IF PLENUM SMOKE DETECTORS MUST BE USED. IF PLENUM SMOKE DETECTORS MUST BE USED, CONTRACTOR'S BID SHALL INCLUDE PRICING FOR PROPER NUMBER OF PLENUM SMOKE DETECTORS REQUIRED TO MEET THE CODE OF THE AHJ.
27. FOR DUCTED RETURNS, TOTAL ROOM RETURN AIR SHALL BE BALANCED TO (100%-OA%) OF THE TOTAL SUPPLY AIR FOR THE ROOM.

KEYED NOTES:

1. EXISTING AIR HANDLING UNITS TO REMAIN. PRIOR TO BIDS, CONTRACTOR SHALL INSPECT UNIT AND VERIFY INDOOR UNIT, OUTDOOR UNIT AND COIL ARE IN 100% OPERATIONAL ORDER. REPORT ANY DEFICIENCIES TO BUILDING MANAGEMENT.
2. EXISTING PLUMBING FIXTURES TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER / BUILDING MANAGEMENT.

BALANCING SCHEDULE:

EQUIPMENT DESIGNATION	TONS	SUPPLY AIR	OUTDOOR AIR	EXHAUST AIR
EX.AHU-1	5.0	1900	VIA WINDOWS	0
EX.AHU-2	5.0	1900	VIA WINDOWS	0
EX.EF-1	0	0	0	75

I 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: 3/1/2017

REV NO. | DATE | DESCRIPTION

STRUCTURAL: SKARDA AND ASSOCIATES, 2439 NORTH CHARLES STREET, BALTIMORE, MARYLAND 21218, 410-366-8384

PROJECT MANAGER: M.I.C.A., 1300 MOUNT ROYAL AVENUE, BALTIMORE, MD 21217, TELE 410-462-7591

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PROJECT: M.I.C.A ANNEX BLDG, THIRD FLOOR, 1918 W. LANVALE STREET, BALTIMORE, MARYLAND

TITLE: FLOOR PLANS - MECHANICAL; PROJECT FILE NAME: MILV-3F16; LAYER/ REVISION:

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DWG NO. M2