CEILING SUPPLY DIFFUSERS

SYMBOL	CFM	NECK SIZE	MINIMUM - MAXIMUM 1/2 SPACING	FACE DIMENSION HARD CEILING	FACE DIMENSION LAY-IN CEILING
	40-80	6"Ø	4' - 5'	12x12	24x24
	85-180	8"Ø	4' - 8'	12x12	24x24
	185-340	10"Ø	8' - 10'	24x24	24x24
	345-500	12"Ø	9' - 10'	24x24	24x24
	505-600	14"Ø	10' - 12'	24x24	24x24

NOTE:
1. RUNOUT DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE INDICATED NECK SIZE.

CEILING RETURN OR EXHAUST REGISTERS & GRILLES

SYMBOL	CFM	GRILLE SIZE	RUNOUT DUCT (NOTE 2)
	0-95	8x8 (NOTE 1)	6x6
	100-195	10x10 (NOTE 1)	8x8
	200-295	12x12 (NOTE 1)	10x8
OR	300-595	18x18 (NOTE 1)	12x12
	600-695	22x22 (NOTE 1)	12x12
	700-795	24x24 (NOTE 1)	14x12
	800-1500	48x24 (NOTE 1)	18x14

NOTES:
1. USE 22x22 GRILLE SIZE FOR ALL LAY-IN CEILING APPLICATIONS. USE SIZE INDICATED FOR HARD CEILING APPLICATIONS.
2. WHERE DUCT CONNECTION IS SHOWN, RUNOUT DUCT SHALL BE SIZE SHOWN IN SCHEDULE U.N.O.
3. USE 18x18 GRILLE SIZE AND 12x12 RUNOUT DUCT FOR HARD CEILING APPLICATIONS WHERE SIZE OR AIRFLOW IS NOT INDICATED.
4. USE 12x12 RUN OUT DUCT FOR LAY-IN CEILING APPLICATIONS WHERE AIRFLOW IS NOT INDICATED.

SIDEWALL REGISTERS AND GRILLES

CFM	SUPPLY AIR REGISTER SIZE	SUPPLY AIR RUNOUT DUCT	RETURN AIR OR EXHAUST AIR REGISTER SIZE	RETURN AIR OR EXHAUST AIR RUNOUT DUCT
0-95	10x3	8x6	8x6	8x6
100-195	10x6	10x6	10x6	10x6
200-295	12x6	12x6	18x6	18x6
300-395	16x6	16x6	24x6	24x6
400-495	18x8	18x8	30x8	30x8
500-595	18x10	18x10	30x10	30x10

PIPING AND FITTINGS

- CONDENSATE DRAIN PIPING FROM COOLING COIL
- CHWS — CHILLED WATER SUPPLY PIPING
- CHWR — CHILLED WATER RETURN PIPING
- HHWS — HEATING HOT WATER SUPPLY PIPING
- HHWR — HEATING HOT WATER RETURN PIPING
- HPS — HIGH PRESSURE STEAM PIPING
- LPS — LOW PRESSURE STEAM PIPING
- CR — GRAVITY (STEAM) CONDENSATE RETURN PIPING
- PC — PUMPED (STEAM) CONDENSATE RETURN PIPING
- REF — REFRIGERANT PIPING (ONE LINE REPRESENTS BOTH LIQUID AND GAS LINES)
- +9'-0" — ELEVATION ABOVE FINISHED FLOOR (TO CENTERLINE OF PIPE)
- ECCENTRIC REDUCER
- CONCENTRIC REDUCER
- STRAINER
- UNION
- FLEXIBLE PIPE CONNECTION
- AAV — AUTOMATIC AIR VENT AND ISOLATION BALL VALVE
- CAP
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE, OUTLET UP
- TEE, OUTLET DOWN
- FLOW DIRECTION IN PIPE
- NEW PIPE
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED

MISCELLANEOUS

- POINT OF CONNECTION, NEW TO EXISTING
- POINT INDICATED LIMIT OF DEMOLITION
- POINT INDICATED CONNECT TO CIVIL
- SMOKE PARTITION - THE SPACE AROUND A DUCT PENETRATING A SMOKE PARTITION SHALL BE FILLED WITH MINERAL WOOL TO LIMIT THE PASSAGE OF SMOKE
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL

VALVES

- N.O. / N.C. — BALL VALVE (WITH QUARTER TURN HANDLE)
- N.O. / N.C. — BUTTERFLY VALVE (WITH QUARTER TURN HANDLE)
- CHECK VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- N.O. / N.C. — SOLENOID VALVE

VALVE ACTUATORS:

- L — QUARTER TURN LEVER
- M — ELECTRIC MOTOR
- S — SOLENOID

MEASUREMENTS AND CONTROLS

- T — THERMOSTAT/TEMPERATURE SENSOR
- H — HUMIDITY SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- SP — STATIC PRESSURE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- TH — COMBINATION TEMPERATURE AND HUMIDITY SENSOR
- AFS — AIR FLOW STATION
- AAV — AUTOMATIC AIR VENT AND ISOLATION VALVE
- PRESSURE GAUGE AND ISOLATION VALVE
- CS — CIRCUIT SETTER
- VENTURI FLOW METER
- PT — PRESSURE & TEMPERATURE TEST STATION

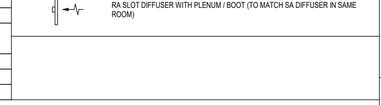
FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC.

TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOORS	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	HILTI PRODUCTS
			BASIS OF DESIGN UL SYSTEM		
CIRCULAR BLANK OPENINGS (0000-0999)	1	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	CP 680, CP 618, FS-ONE MAX, CFS- BL
	2	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	
METAL PIPES OR CONDUIT (1000-1999)	1	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020	W-L-1054, W-L-1058, W-L-1164, W-L-1506	CP 680, FS-ONE MAX, CP 606, CFS-S SIL GG, CFS-D, MINERAL WOOL
	2	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (2000-2999)	1	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648
	2	F-A 2053, F-A 2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2371, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	
SINGLE OR BUNDLED CABLES (3000-3999)	1	F-A-3007, C-AJ-3095, C-AJ-3180, C-AJ-3283	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, CFS-CC
	2	F-A-3007, C-AJ-3095, C-AJ-3334, F-A-3060	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	
INSULATED PIPES (5000-5999)	1	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090, C-AJ-5048	C-AJ-5090, C-AJ-5091, C-AJ 5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	CP 680, FS-ONE MAX, MINERAL WOOL
	2	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090	C-AJ-5090, C-AJ-5091, C-AJ-5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	
MECHANICAL DUCTWORK WITHOUT DAMPERS (NON-INSULATED) (7000-7999)	1	C-AJ-7046, C-AJ-7051, C-AJ-7084	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022	W-L-7017, W-L-7040, W-L-7042, W-L-7155	CFS-S SIL GG, CP 606, FS-ONE MAX
	2	C-AJ-7046, C-AJ-7051, C-AJ-7085	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022	W-L-7040, W-L-7042, W-L-7155	
MECHANICAL DUCTWORK WITHOUT DAMPERS (INSULATED) (7000-7999)	1	N/A**	W-J-7029, W-J-7124	W-L-7059, W-L-7153, W-L-7156, W-L-7151	FS-ONE MAX, MINERAL WOOL
	2	N/A**	W-J-7091, W-J-7112, W-J-7124	W-L-7059, W-L-7153, W-L-7156, W-L-7151	
MIXED PENETRANTS (8000-8999)	1	C-AJ-8099, C-AJ-8056, C-AJ-8143	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618
	2	C-AJ-8099, C-AJ-8056, C-AJ-8143, C-AJ-8252	C-AJ 8099, C-AJ-8056, W-J-8007, C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013	

NOTES:
1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.
2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT FIRESTOP MANUFACTURER FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRAWINGS.
3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM.
4. COORDINATE WORK WITH OTHER TRADES TO ENSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE-VERSA.
5. ALL THROUGH-PENETRATION FIRESTOPS SHALL BE PROVIDED BY ONE MANUFACTURER. APPROVED MANUFACTURES: HILTI, RECTORSEAL, 3M, STL.

AIR DISTRIBUTION

- AxB — RECTANGULAR SHEET METAL DUCT
- ØD — ROUND SHEET METAL DUCT
- FLEXIBLE RUNOUT DUCT
- ROUND OR RECTANGULAR TAKE-OFF FITTING WITH BALANCING DAMPER - SEE DETAIL B/M501
- SUPPLY AIR DUCTWORK SECTION
- RETURN AIR DUCTWORK SECTION
- EXHAUST AIR DUCTWORK SECTION
- AIR BALANCING DAMPER (MANUAL)
- MD — CONTROL DAMPER (MOTORIZED)
- FIRE/SMOKE DAMPER
- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- DUCTWORK FLEXIBLE CONNECTION
- AP — DUCTWORK ACCESS PANEL
- DUCT ELBOW WITH SINGLE THICKNESS TURNING VANES
- SIDEWALL REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
- CFM — SQUARE CEILING SA DIFFUSER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SHADED REGION INDICATED SECTORIZING BAFFLE(S)
- CFM — RECTANGULAR CEILING RA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) WHERE CFM IS NOT INDICATED, PROVIDE STANDARD SIZE FOR CEILING TYPE INDICATED IN SCHEDULE.
- CFM — RECTANGULAR CEILING EA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
- AP — ACCESS PANEL IN INACCESSIBLE CEILING (24x24, UNO) SEE DETAIL A/M502
- NEW DUCT
- EXISTING MATERIALS TO BE REMOVED
- SINGLE DUCT AIR TERMINAL UNIT. SEE DETAIL B/M501
- DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND INSTALLED BY FIRE ALARM CONTRACTOR)
- DOOR UNDERCUT (3/4", UNO)



APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. ASHRAE
   a. STANDARD 15 — SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
   b. STANDARD 55 — THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY - 2017
   c. STANDARD 62.1 — VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2019
   d. STANDARD 90.1 — ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
2. ASME
   a. BOILER AND PRESSURE VESSEL CODE - 2019
      1. SECTION I — RULES FOR CONSTRUCTION OF POWER BOILERS
      2. SECTION IV — RULES FOR CONSTRUCTION OF HEATING BOILERS
      3. SECTION VIII — RULES FOR CONSTRUCTION OF PRESSURE VESSELS
   b. ASME A17.3 — SAFETY CODE FOR EXISTING ELEVATORS AND ESCALATORS - 2020
3. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).
4. NATIONAL FIRE CODES
   a. NFPA 1 — UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
   b. NFPA 13 — STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEM - 2019
   c. NFPA 14 — STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE - 2019
   d. NFPA 25 — STANDARD FOR THE INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2020
   e. NFPA 54 — NATIONAL FUEL GAS CODE - 2021
   f. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   g. NFPA 72 — NATIONAL FIRE ALARM AND SIGNALING CODE - 2019
   h. NFPA 90A — STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021
   i. NFPA 90B — STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 20214
   j. NFPA 91 — STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2020
   k. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
5. FLORIDA BUILDING CODE, 2023 EDITION
   a. BUILDING CODE
   b. EXISTING BUILDING CODE
   c. ENERGY CONSERVATION CODE
   d. MECHANICAL CODE
   e. PLUMBING CODE
   f. FUEL GAS CODE
   g. ACCESSIBILITY CODE
6. FLORIDA STATUTES
   a. CHAPTER 471 — ENGINEERING
   b. CHAPTER 553.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
7. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   b. CHAPTER 61C-5 — FLORIDA ELEVATOR SAFETY CODE
   c. CHAPTER 61G15-34 — RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
   d. CHAPTER 69A-3 — FIRE PREVENTION - GENERAL PROVISIONS
   e. CHAPTER 69A-47 — UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
   f. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

COORDINATION AND/OR SHOP DRAWING NOTES

IF THE CONTRACTOR ELECTS TO PROVIDE A COORDINATION DRAWING PACKAGE OR BIM MODEL, THE FOLLOWING NOTES SHALL APPLY:

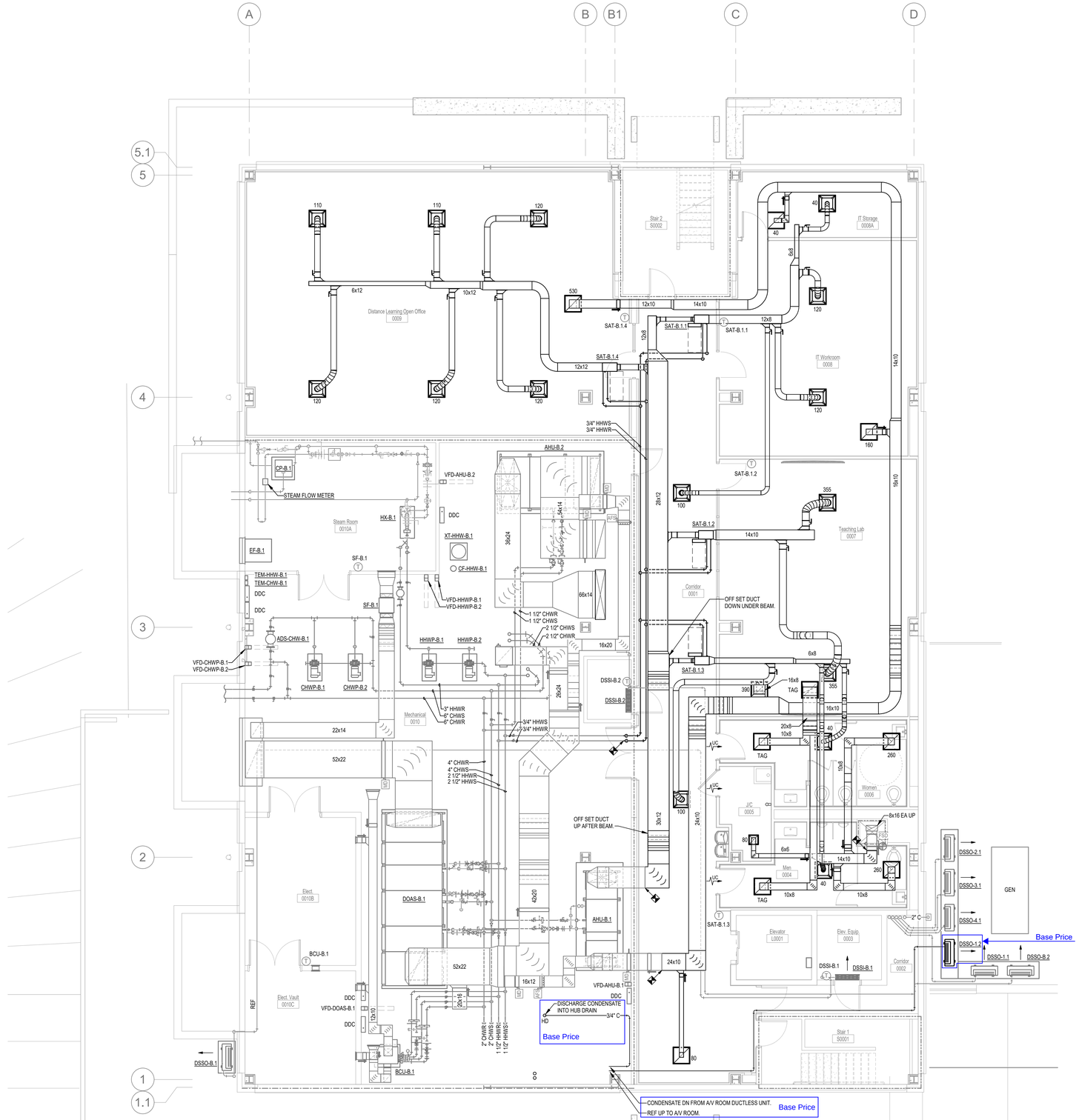
1. COORDINATION AND SHOP DRAWINGS, INCLUDING ANY BIM MODEL CREATED BY THE CONTRACTOR AND OR A THIRD PARTY FOR COORDINATION PURPOSES ARE NOT CONSTRUCTION DOCUMENTS AND DO NOT SUPERCEDE ANY REQUIREMENTS WITHIN THE CONSTRUCTION DOCUMENTS.
2. CHANGES TO EQUIPMENT OR SYSTEM LAYOUTS FROM THAT DEPICTED IN THE CONSTRUCTION DOCUMENTS THAT ARE REQUIRED FOR COORDINATION, SUBSTITUTIONS, OR OTHERWISE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR APPROVAL.
3. CHANGES SHALL BE CLOUDED AND NOTED ON THE COORDINATION OR SHOP DRAWING IN RED OR OTHER COLOR THAT CLEARLY DIFFERENTIATES THE NOTE FROM THE REMAINDER OF THE SUBMITTED DOCUMENT.
4. ONLY NOTED CHANGES SPECIFICALLY CALLED OUT WILL BE REVIEWED BY THE ENGINEER DURING THE SUBMITTAL PROCESS. THE ENGINEER WILL NOT REVIEW EVERY DETAIL OF THE ENTIRE DOCUMENT PACKAGE TO LOCATE CHANGES MADE BY THE CONTRACTOR. CHANGES NOT SPECIFICALLY NOTED ARE AUTOMATICALLY "NOT APPROVED" REGARDLESS OF APPROVAL STATUS ON THE RETURNED SUBMITTAL.
5. CHANGES TO THE CONTRACT DOCUMENTS MADE BY THE CONTRACTOR THAT ARE NOT NOTED AND BROUGHT TO THE ATTENTION OF THE ENGINEER AND THUS "NOT APPROVED" WHICH RESULT IN A COST OR SCHEDULE CHANGE TO THE PROJECT SHALL BE BURDONED TO THE CONTRACTOR WHO MADE THE CHANGE WITHOUT ANY RENUMERATION FROM THE OWNER.
6. A COORDINATION DRAWING PACKAGE OR BIM MODEL USED IN THE FIELD BY THE INSTALLING CONTRACTOR IS NOT A CONSTRUCTION DOCUMENT AND DOES NOT INCLUDE ALL NOTES AND DETAILS NECESSARY FOR A COMPLETE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INSTALLERS WITH A COMPLETE SET OF APPROVED COORDINATION DRAWINGS INCLUSIVE OF ALL NOTES, DETAILS, ETC. INCLUDED IN THE CONSTRUCTION DOCUMENTS.

COORDINATION NOTES

1. CONTRACTOR TO COORDINATE THE LOCATION, ALIGNMENT, ELEVATION AND/OR SPACING OF ANY EXPOSED DEVICE, FIXTURE, AND/OR PIECE OF EQUIPMENT WITH THE ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND/OR REFLECTED CEILING PLANS. DISCREPANCIES AND/OR CONFLICTS CONTAINED WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IF AN EXPOSED ITEM IS NOT INDICATED ON THE ARCHITECTURAL DOCUMENTS NOTIFY THE ARCHITECT FOR CLARIFICATION OF PLACEMENT PRIOR TO INSTALLATION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC LOCATIONS OF CEILING MOUNTED DEVICES. DEVICES SHALL BE INSTALLED IN THE CENTER OF CEILING TILES WHERE ACOUSTICAL CEILING SYSTEMS ARE SPECIFIED AND ON THE SAME CENTERLINES WITH OTHER ADJACENT CEILING MOUNTED DEVICES IN THE SAME SPACE. IF A DEVICE'S LOCATION IS NOT CLEARLY INDICATED OR THERE IS A CONFLICT WITHIN THE CONTRACT DOCUMENTS NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATION.
3. LOCATION OF WALL AND FLOOR MOUNT DEVICES IS DIAGRAMMATIC AND SHOWN FOR CLARITY. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DEVICES. WHERE NOT INDICATED ON ARCHITECT'S PLAN COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
4. AT EXTERIOR LOCATIONS AND IN SPACES WITH EXPOSED STRUCTURE EXPOSED UTILITIES (INCLUDING PIPING, DUCTWORK, RACEWAYS, ETC.) SHALL BE INSTALLED NEATLY, BUNDLED TOGETHER TO EXTENT POSSIBLE AND RUN AT RIGHT ANGLES TO BUILDING LINES. THESE UTILITIES SHALL BE PAINTED TO MATCH ADJACENT SURFACE OR AS DIRECTED BY ARCHITECT. HANGERS, STEEL SHAPES AND SLOTTED STEEL SUPPORTS SHALL BE PAINTED TO MATCH RACEWAY OR AS DIRECTED BY ARCHITECT. TO EXTENT POSSIBLE CONTRACTOR SHALL AVOID EXPOSED RACEWAYS BY INSTALLING UTILITIES BELOW GRADE, IN WALL, OR ABOVE ADJACENT CONCEALED CEILING SPACES.
5. PROVIDE ACCESS PANELS IN CEILING WHERE ANY DEVICE OR EQUIPMENT REQUIRING SERVICE (INCLUDING DAMPERS, VALVES, JUNCTION BOXES, CONTROLLERS, SMOKE DETECTORS, ETC.) IS LOCATED ABOVE OR BEHIND AN INACCESSIBLE CEILING OR WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR APPROPRIATE UL LABEL. COORDINATE LOCATION AND TYPE OF ACCESS PANEL WITH ARCHITECT PRIOR TO INSTALLATION.
6. PROVIDE SELF-ADHESIVE IDENTIFICATION LABELS (CLEAR WITH BLACK LETTERS) ON CEILING WHERE VALVES, MECHANICAL EQUIPMENT, OR ELECTRICAL EQUIPMENT ARE LOCATED ABOVE CEILINGS. AT ACCESSIBLE CEILINGS APPLY LABEL TO CEILING GRID WITHIN REACH OF DEVICE; AT INACCESSIBLE CEILINGS APPLY LABEL TO ACCESS PANEL.
7. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR OR GROUND MOUNTED EQUIPMENT WITH #4 REBAR 6" O.C. EACH WAY AND 1" CHAMFERED TOP EDGE. PADS ON CONCRETE SLAB SHALL BE 4" HIGH AND DOWELED INTO SLAB WITH #4 REBAR EXTENDING 2" INTO PAD, 3" INTO SLAB AND EPOXIED IN PLACE AND SPACED 12" O.C. AROUND PERIMETER OF PAD. PADS ON EARTH SHALL BE MINIMUM 6" THICK AND LAYED OUT TO EXTEND A MINIMUM OF 4" ABOVE GRADE AT HIGHEST GRADE LEVEL; COMPACT EARTH BELOW PAD PRIOR TO PAD CONSTRUCTION.

HVAC NOTES

1. PRESSURE TEST PIPING SYSTEMS WITH WATER AT 100 PSI FOR A MINIMUM OF 4 HOURS. PRESSURE SHALL REMAIN ON SYSTEM UNTIL INSPECTED BY ENGINEER.
2. TRAP AIR CONDITIONING CONDENSATE AND RUN TO SAFEWASTE AT LOCATION SHOWN ON PLANS.
3. COMPLETELY FLUSH AND CLEAN THE CHILLED WATER AND HEATING HOT WATER SYSTEMS.
4. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF CHILLED WATER AND HEATING HOT WATER PIPING SYSTEMS.
5. INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING WHILE MAINTAINING ACCESSIBILITY FOR EQUIPMENT AND DEVICES AS APPROPRIATE.
6. COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATIONS WITH ELECTRICAL TO PROVIDE THE REQUIRED CLEARANCES AROUND ALL ELECTRICAL PANELS, SWITCHGEAR, ETC.
7. INSTALLATION OF EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR REMOVAL OF FILTERS AND FOR MAINTENANCE.
8. DUCT SIZES GIVEN ARE SHEET METAL SIZES.
9. COORDINATE EXACT LOCATIONS OF AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND THE LIGHTING LAYOUT.
10. THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
11. PROVIDE NEW AIR FILTERS IN EACH UNIT REQUIRING FILTERS WHEN THE PROJECT IS READY FOR TEST AND BALANCE. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. REPLACE FILTERS DURING CONSTRUCTION ACCORDING TO FILTER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL OPEN ENDS OF DUCTWORK DURING CONSTRUCTION.
12. VACUUM CLEAN THE INTERIOR OF ALL HVAC EQUIPMENT AND DUCTWORK.
13. WHEREVER THE DEPTH OF THE TRUNK DUCT IS LESS THAN THE ROUND RUNOUT DUCT DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.
14. WHERE ROUND DUCT IS INDICATED ON PLANS, USE SPIRAL WOUND DUCTWORK. "SNAPLOCK" DUCTWORK IS NOT ACCEPTABLE.
15. PROVIDE 3 DIAMETERS OF STRAIGHT DUCT AT INLET TO AIR TERMINAL UNITS. DUCT SIZE SHALL BE SAME AS BOX INLET. IF INLET DUCT LENGTH EXCEEDS 5 FEET, INCREASE INLET DUCT SIZE BY 4" UP TO 3 FEET FROM BOX INLET.
16. PROVIDE FLEXIBLE DUCT CONNECTIONS AT EACH EQUIPMENT CONNECTION.
17. OUTSIDE AIR INTAKES SHALL NOT BE LOCATED ANY CLOSER THAN 15 FEET FROM ANY CHIMNEY OR EXHAUST OUTLET OR PLUMBING VENT TERMINAL.
18. INSTALL DUCT MOUNTED SMOKE DETECTOR (FURNISHED BY DIV. 29) IN SUPPLY TRUNK DUCT BEFORE ANY TAKE-OFFS FOR AIR HANDLING UNITS WITH SUPPLY AIR CAPACITY GREATER THAN 2000 CFM AND WHERE INDICATED ON PLANS.
19. WHERE FIRE DAMPERS ARE SHOWN, PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
20. WHERE DUCT MOUNTED SMOKE DETECTORS ARE REQUIRED, PROVIDE DUCT ACCESS DOORS TO ALLOW VIEWING AND SERVICING. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
21. WHERE SMOKE DAMPERS OR COMBINATION FIRE/SMOKE DAMPERS ARE SHOWN, PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS AND TO ALLOW VIEWING AND REMOVAL OF SMOKE DETECTORS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
22. WHERE CONTROL DAMPERS OR COILS ARE INSTALLED IN DUCTWORK, PROVIDE DUCT ACCESS DOORS TO ALLOW INSPECTION OF DEVICE. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
23. DUCTWORK SHALL BE FABRICATED FROM FIELD MEASUREMENTS TAKEN AS THE BUILDING STRUCTURE AND SPACE COMPETING SYSTEMS ARE PROGRESSIVELY INSTALLED. THE DUCTWORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS IS DIAGRAMMATIC AND DOES NOT NECESSARILY INCLUDE ALL MODIFICATIONS REQUIRED TO AVOID THESE INTERFERENCES. BEFORE FABRICATING ANY DUCTWORK, CHECK THE PHYSICAL CONDITIONS AT THE JOB SITE AND MAKE CHANGES IN CROSS SECTIONS, ROUTING, OFFSETS AND SIMILAR ITEMS WHETHER SPECIFICALLY INDICATED OR NOT. VERIFY THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING DUCTWORK, PIPING, LIGHT FIXTURES, CEILING SYSTEMS AND TO PROVIDE EQUIPMENT SERVICE. COSTS REQUIRED TO CHANGE DUCTWORK TO FIT THE SPACE AVAILABLE AND AVOID INTERFERENCES CAUSED BY SPACE COMPETING SYSTEMS SHALL BE BORNE BY THE CONTRACTOR. NO ADDITIONAL REMUNERATION WILL BE PAID BY THE OWNER.
24. APPLY EXTERNAL INSULATION TO SINGLE WALL SUPPLY DUCTS, RETURN DUCTS AND OUTSIDE AIR DUCTS PER SPECIFICATIONS.
25. PROVIDE VOLUME CONTROL DAMPERS IN SIDE TAKE-OFF FITTINGS TO SUPPLY AIR DIFFUSERS AND EXHAUST AIR AND RETURN AIR GRILLES AND AT EACH DUCT BRANCH SERVING TWO OR MORE AIR TERMINALS, WHETHER SHOWN ON THE DRAWINGS OR NOT.
26. MINIMUM PIPE SIZE FOR CHILLED WATER, HEATING HOT WATER, STEAM, STEAM CONDENSATE AND COOLING COIL CONDENSATE SHALL BE 3/4". REFER TO SCHEDULE FOR RUNOUT PIPE SIZE TO INDIVIDUAL EQUIPMENT.
27. SECTIONS OF PIPE STORED ON SITE OR PLACED IN TRENCHES SHALL HAVE EACH OPEN END COVERED AT ALL TIMES EXCEPT WHILE MAKING CONNECTIONS. IF DEBRIS IS FOUND INSIDE PIPE, IT SHALL BE COMPLETELY REMOVED PRIOR TO ASSEMBLY.
28. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE, DAMPER OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
29. CONTRACTOR SHALL ADHERE TO ALL REGULATORY/UNIVERSITY REFRIGERANT RECOVERY GUIDELINES WHEN REMOVING ANY EQUIPMENT CONTAINING REFRIGERANTS.
30. COORDINATE LOUVER AND DEVICE LOCATIONS WITH WALL STRUCTURAL REINFORCEMENT. SEE STRUCTURAL DRAWINGS FOR LOCATION OF LINTELS, BOND BEAMS AND REINFORCING.
31. COORDINATE ALL DUCT TEST WITNESSING WITH LOCAL MECHANICAL INSPECTOR.
32. PRIOR TO FINAL INSPECTION, PROVIDE CERTIFIED TEST & BALANCE REPORT AND OPERATIONS & MAINTENANCE MANUALS TO THE OWNER.
33. PROVIDE DUCT ACCESS DOOR AT EACH FLOW MEASURING STATION.
34. DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESSES, SEAM AND JOINT CONSTRUCTION, REINFORCE



N 1 Basement Alternate Basement
3/16" = 1'-0"

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DEMOLITION PACKAGE	WJA	STC	01/16/2026					
100% CONSTRUCTION DOCUMENTS	WJA	STC	06/16/2026					

FSU

Client: Florida State University
Tallahassee, Florida

Job Title: Kellogg Building Remodeling Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Basement Floor Plan

Sheet No.:
M100

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www.H2Eengineering.com
H2E PROJECT No. 22.087

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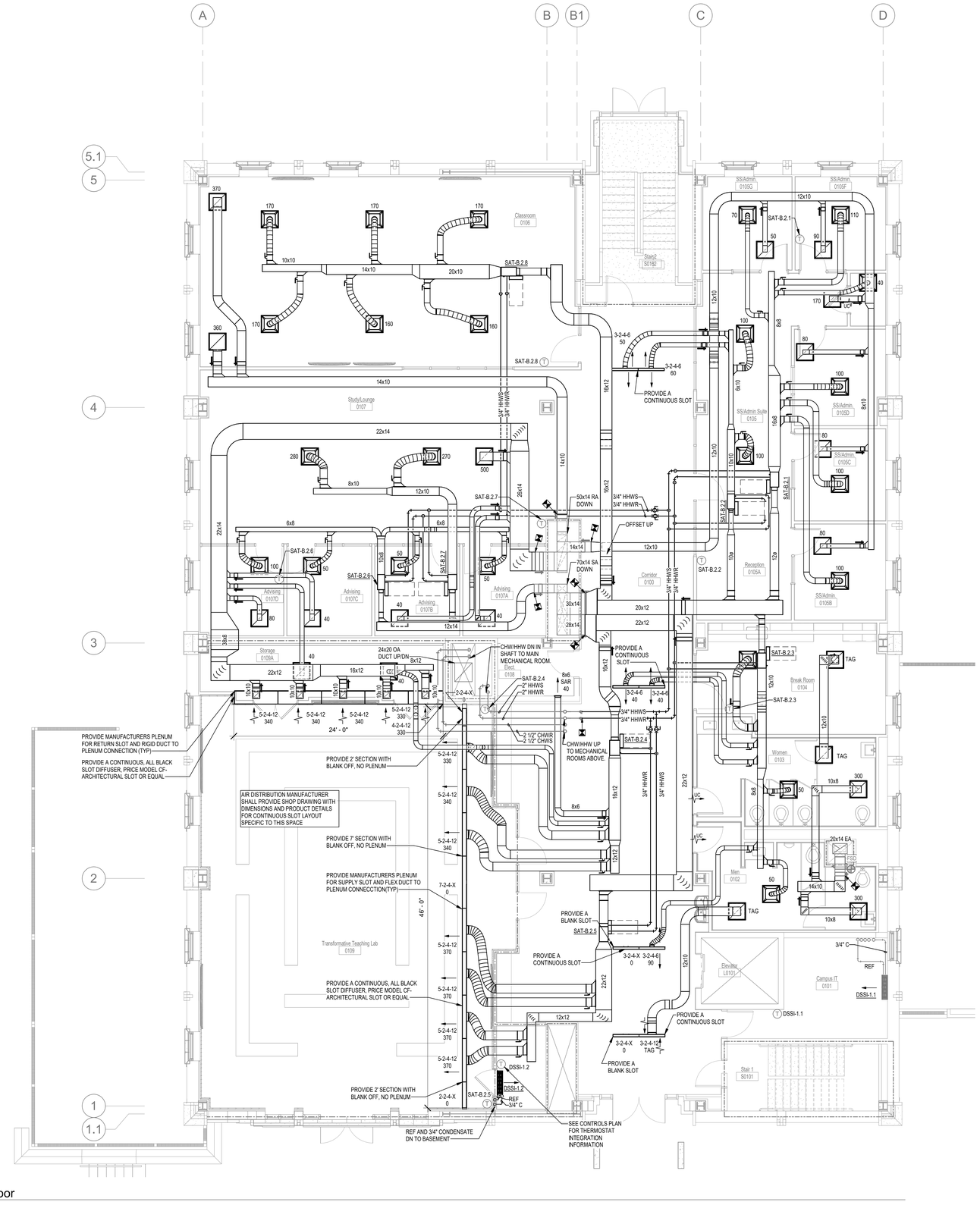

N 1 First Floor
3/16" = 1'-0"

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DEMOLITION PACKAGE								
100% CONSTRUCTION DOCUMENTS	WJA	STC	06/16/2026					

FSU

Client: Florida State University
Tallahassee, Florida

Job Title: Kellogg Building Remodeling Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
First Floor Plan

Sheet No.:
M101

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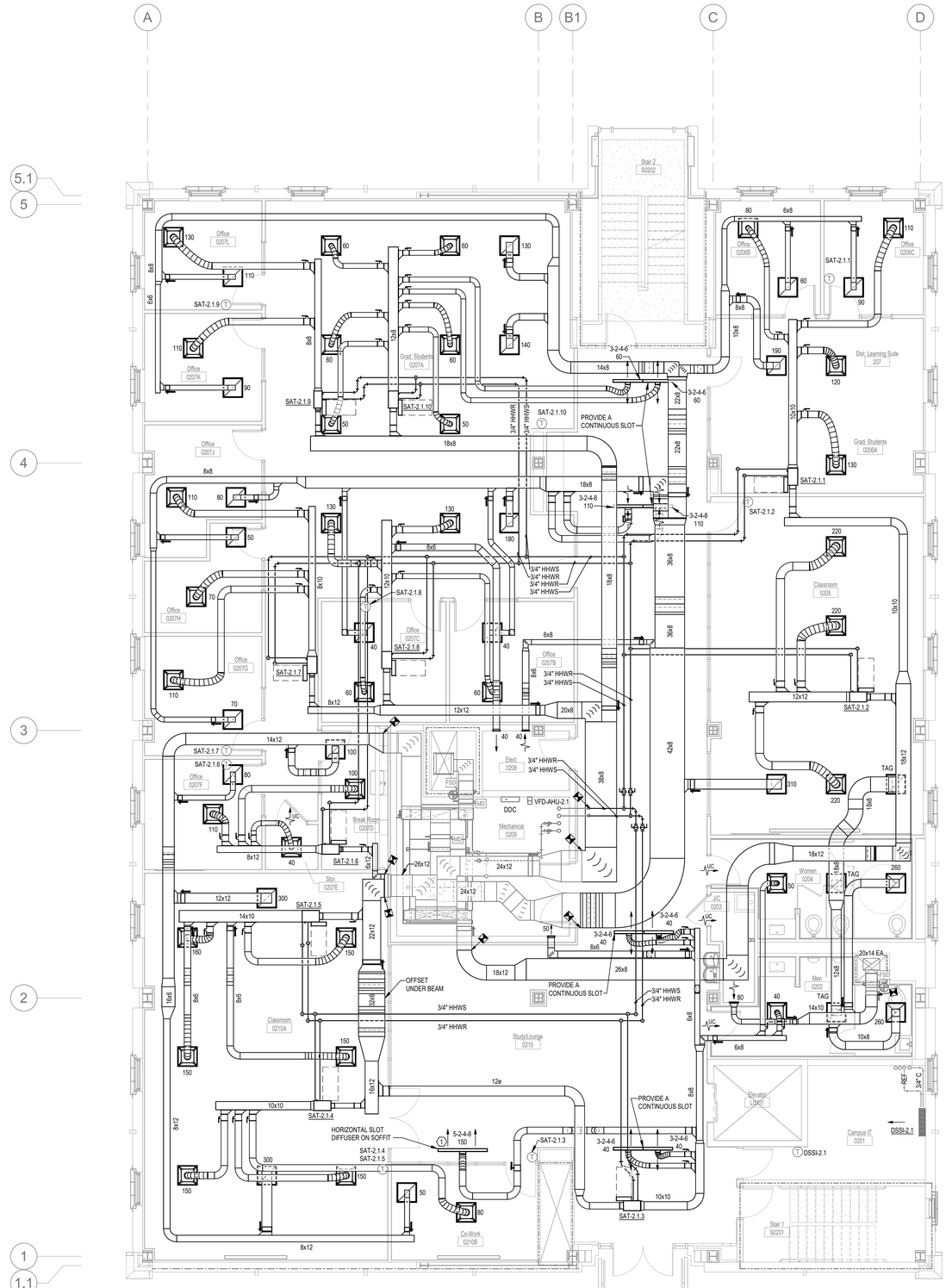

N 1 Second Floor
3/16" = 1'-0"

Alternate 2nd Floor

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100% CONSTRUCTION DOCUMENTS	WJA	STC	06/16/2026					

FSU

Client:
Florida State University
Tallahassee, Florida

Job Title:
Kellogg Building Remodeling
Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Second Floor Plan

Sheet No.:
M102

ENGINEERING
114 EAST 5th AVENUE TALLAHASSEE, FL
32303-6148 P 850.224.7427
www.h2Engineering.com

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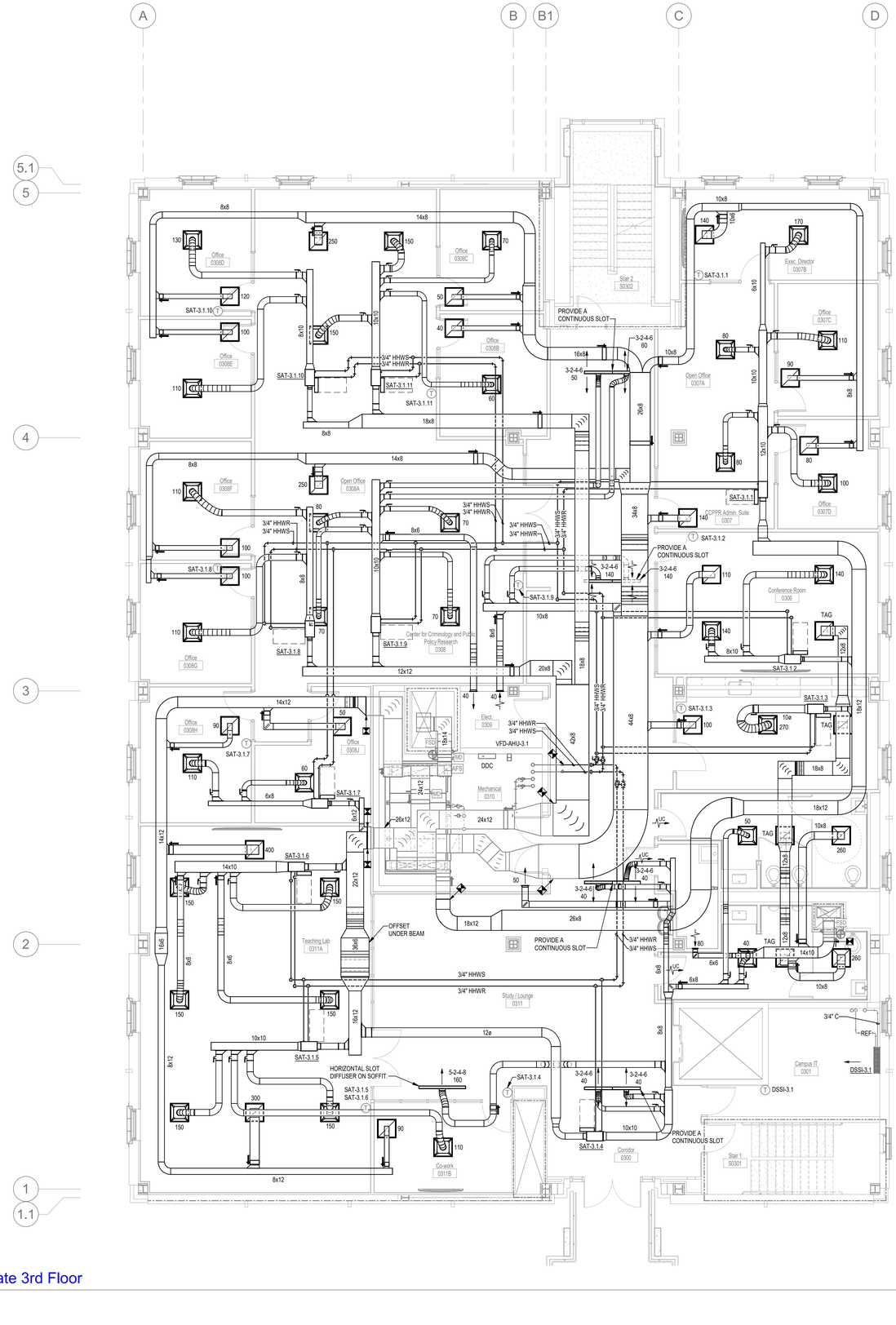

N 1 Third Floor Alternate 3rd Floor
3/16" = 1'-0"

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FSU

Client: Florida State University
Tallahassee, Florida

Job Title: Kellogg Building Remodeling Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Third Floor Plan

Sheet No.:
M103

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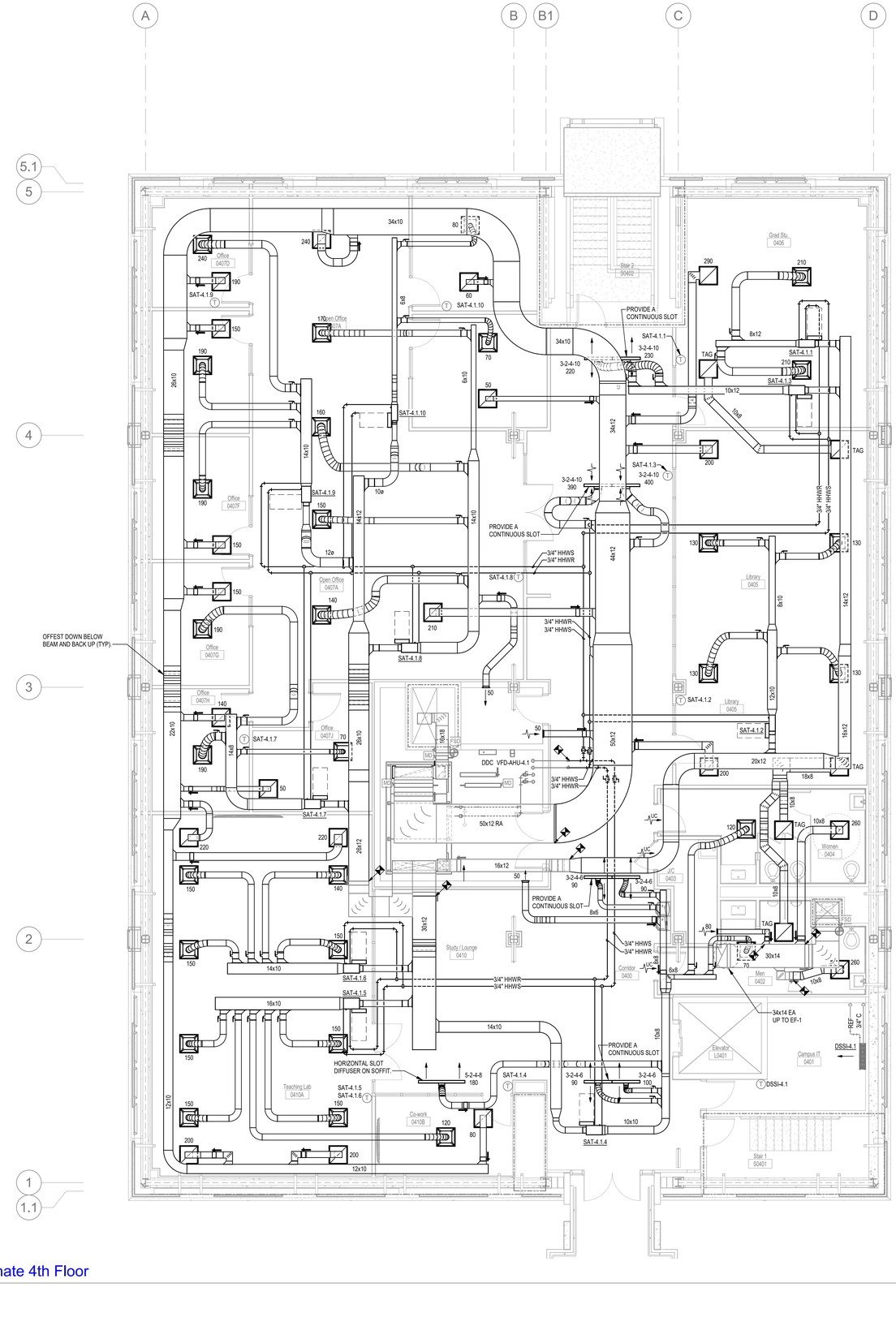

N 1 Fourth Floor Alternate 4th Floor
3/16" = 1'-0"

KEYNOTES

1. PROVIDE DARK BRONZE FINISH ON AIR DISTRIBUTION DEVICE.

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90% CONSTRUCTION DOCUMENTS	WJA	STC	01/16/2026					
DEMOLITION PACKAGE								
100% CONSTRUCTION DOCUMENTS	WJA	STC	06/16/2026					

FSU

Client: Florida State University
Tallahassee, Florida

Job Title: Kellogg Building Remodeling Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
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Description: Fourth Floor Plan

Sheet No.: M104

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DUCTLESS SPLIT SYSTEM TYPES

TYPE			D1
DESCRIPTION			COOLING ONLY
PERFORMANCE - (NOTES 1 & 2)			
	NOMINAL CAPACITY	TONS	2
	TOTAL COOLING CAPACITY	BTUH	22,400
	SENSIBLE COOLING CAPACITY	BTUH	16,360
	HEATING CAPACITY @ 47 °F	BTUH	N/A
	HEATING CAPACITY @ 17 °F	BTUH	N/A
	AIR FLOW RATE (HIGH - LOW)	CFM	716 - 467
	SEER	BTU / W-HR	21.0
	HSPF	BTU / W-HR	N/A
INDOOR UNIT DATA			
	FILTERS		1" WASHABLE
	CONDENSATE DRAIN SIZE	IN.	3/4
	ELECTRICAL CHARACTERISTICS	V / PH	N/A
	MINIMUM CIRCUIT AMPACITY	AMPS	N/A
	MAXIMUM OVERLOAD PROTECTION	AMPS	N/A
	WEIGHT	LBS.	30.5
OUTDOOR UNIT DATA			
	COMPRESSOR TYPE		INVERTER
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 1
	MINIMUM CIRCUIT AMPACITY	AMPS	16.3
	MAXIMUM OVERLOAD PROTECTION	AMPS	20
	WEIGHT	LBS.	101
MAX REFRIGERANT LINE LENGTH		FT	99
REFRIGERANT TYPE			R32
MANUFACTURER			DAIKIN
MODEL NUMBER (INDOOR UNIT)			FTKF24AXVJU
MODEL NUMBER (OUTDOOR UNIT)			RKF24AXVJU
DETAIL REFERENCE			F,H/M501

NOTES:
1. COOLING CAPACITY RATED @ 95 °F AMBIENT, 80 °Fdb / 67 °Fwb ENTERING AIR TEMPERATURE.
2. HEATING CAPACITY RATED @ 47 °Fdb / 43 °Fwb AMBIENT, 70°Fdb ENTERING AIR TEMPERATURE.
3. UNIT SHALL BE CAPABLE OF OPERATION FOR AMBIENT TEMPERATURES DOWN TO 14°F
4. REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER.
5. PROVIDE INTEGRAL CONDENSATE SENSOR TO SHUT UNIT OFF IF HIGH CONDENSATE LEVELS ARE DETECTED IN THE DRAIN PAN.

DUCTLESS SPLIT SYSTEMS

INDOOR UNIT DESIGNATION		DSSI-1.2
OUTDOOR UNIT DESIGNATION		DSSO-1.2
	SCHEDULED TYPE	D
	DESCRIPTION	COOLING ONLY
	FAN SPEED	MEDIUM
	NOTES	1, 3, 4

NOTES:
1. PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT.
2. PROVIDE CONDENSATE PUMP.
4. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE FIELD SUPPLIED INTERCONNECTED WIRING PER MANUFACTURER'S INSTRUCTIONS.

SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT

Alternate Basement

DESIGNATION			SAT-B.1.1	SAT-B.1.2	SAT-B.1.3	SAT-B.1.4	SAT-B.2.1	SAT-B.2.2	SAT-B.2.3	SAT-B.2.4	SAT-B.2.5	SAT-B.2.6	SAT-B.2.7	SAT-B.2.8
AIR VALVE														
	NOMINAL DIAMETER	IN.	6	8	6	8	8	6	8	10	12	6	8	10
	MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.40	0.30	0.25	0.25	0.40
AIR FLOW RATES														
	MAXIMUM COOLING	CFM	370	710	190	700	520	310	550	1,090	1,480	250	550	1,000
	MINIMUM COOLING	CFM	120	220	80	210	160	100	170	330	450	80	170	300
	MAXIMUM HEATING	CFM	120	220	80	330	160	100	170	330	450	80	170	300
	MINIMUM HEATING	CFM	120	220	80	210	160	100	170	330	450	80	170	300
	UNOCCUPIED MINIMUM	CFM	80	150	80	240	150	80	150	240	400	80	150	240
HEATING COIL DATA - HYDRONIC														
	HEATING CAPACITY	MBTUH	4.3	8.0	2.9	11.9	5.8	3.6	6.2	11.9	16.3	2.9	6.2	10.9
	AIR ENTERING HEATING COIL	°F	52	52	52	52	52	52	52	52	52	52	52	52
	AIR LEAVING HEATING COIL	°F	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	HHW ENTERING & LEAVING TEMPERATURE	°F - °F	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110
	WATER FLOW	GPM	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.8	1.1	0.5	0.5	0.7
	RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1	1	1	1	1
	CONTROL VALVE (TYPE)		2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
SOUND CRITERIA - (NOTE 1)														
	INTEGRAL SILENCER		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	MAX DISCHARGE SOUND RATING	NC	30	30	30	30	30	30	30	30	25	30	30	30
	MAX RADIATED SOUND RATING	NC	25	25	25	25	25	25	25	30	30	25	25	30

Alternate 2nd Floor

DESIGNATION			SAT-2.1.1	SAT-2.1.2	SAT-2.1.3	SAT-2.1.4	SAT-2.1.5	SAT-2.1.6	SAT-2.1.7	SAT-2.1.8	SAT-2.1.9	SAT-2.1.10
AIR VALVE												
	NOMINAL DIAMETER	IN.	8	8	8	6	8	6	6	8	6	8
	MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
AIR FLOW RATES												
	MAXIMUM COOLING	CFM	440	660	450	380	610	250	290	420	240	460
	MINIMUM COOLING	CFM	150	200	150	120	190	80	90	150	80	150
	MAXIMUM HEATING	CFM	150	200	150	120	190	80	90	150	80	150
	MINIMUM HEATING	CFM	150	200	150	120	190	80	90	150	80	150
	UNOCCUPIED MINIMUM	CFM	150	150	150	150	150	80	80	150	80	80
HEATING COIL DATA - HYDRONIC												
	HEATING CAPACITY	MBTUH	5.4	7.2	5.4	4.3	6.9	2.9	3.3	5.4	2.9	5.4
	AIR ENTERING HEATING COIL	°F	52	52	52	52	52	52	52	52	52	52
	AIR LEAVING HEATING COIL	°F	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	HHW ENTERING & LEAVING TEMPERATURE	°F - °F	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110
	WATER FLOW	GPM	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1	1	1
	CONTROL VALVE (TYPE)		2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
SOUND CRITERIA - (NOTE 1)												
	INTEGRAL SILENCER		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	MAX DISCHARGE SOUND RATING	NC	30	30	30	30	30	30	30	30	30	30
	MAX RADIATED SOUND RATING	NC	25	25	25	25	25	25	25	25	25	25

NOTES:
1. BASED ON 1.0 IN. WG PRESSURE DROP ACROSS UNIT

SUPPLY AIR TERMINALS - SHUTOFF WITH HOT WATER REHEAT (CONTINUED)

Alternate 3rd Floor

DESIGNATION			SAT-3.1.1	SAT-3.1.2	SAT-3.1.3	SAT-3.1.4	SAT-3.1.5	SAT-3.1.6	SAT-3.1.7	SAT-3.1.8	SAT-3.1.9	SAT-3.1.10	SAT-3.1.11
AIR VALVE													
	NOMINAL DIAMETER	IN.	8	6	6	8	8	8	6	6	8	6	8
	MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
AIR FLOW RATES													
	MAXIMUM COOLING	CFM	540	280	270	460	410	600	170	220	440	240	430
	MINIMUM COOLING	CFM	170	90	90	150	150	180	80	80	150	80	150
	MAXIMUM HEATING	CFM	170	90	90	150	150	180	80	80	150	80	150
	MINIMUM HEATING	CFM	170	90	90	150	150	180	80	80	150	80	150
	UNOCCUPIED MINIMUM	CFM	150	80	80	150	150	150	80	80	150	80	150
HEATING COIL DATA - HYDRONIC													
	HEATING CAPACITY	MBTUH	6.2	3.3	3.3	5.4	5.4	6.5	2.9	2.9	5.4	2.9	5.4
	AIR ENTERING HEATING COIL	°F	52	52	52	52	52	52	52	52	52	52	52
	AIR LEAVING HEATING COIL	°F	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	HHW ENTERING & LEAVING TEMPERATURE	°F - °F	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110
	WATER FLOW	GPM	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1	1	1	1
	CONTROL VALVE (TYPE)		2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
SOUND CRITERIA - (NOTE 1)													
	INTEGRAL SILENCER		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	MAX DISCHARGE SOUND RATING	NC	30	30	30	30	30	30	30	30	30	30	30
	MAX RADIATED SOUND RATING	NC	25	25	25	25	25	25	25	25	25	25	25

Alternate 4th Floor

DESIGNATION			SAT-4.1.1	SAT-4.1.2	SAT-4.1.3	SAT-4.1.4	SAT-4.1.5	SAT-4.1.6	SAT-4.1.7	SAT-4.1.8	SAT-4.1.9	SAT-4.1.10
AIR VALVE												
	NOMINAL DIAMETER	IN.	8	8	8	8	8	8	8	8	8	6
	MAX TOTAL UNIT PRESSURE DROP	IN. WG	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
AIR FLOW RATES												
	MAXIMUM COOLING	CFM	420	520	450	790	720	590	450	670	620	150
	MINIMUM COOLING	CFM	150	160	150	240	220	180	150	210	190	80
	MAXIMUM HEATING	CFM	150	160	150	240	220	180	150	210	190	80
	MINIMUM HEATING	CFM	150	160	150	240	220	180	150	210	190	80
	UNOCCUPIED MINIMUM	CFM	150	150	150	150	150	150	150	150	150	80
HEATING COIL DATA - HYDRONIC												
	HEATING CAPACITY	MBTUH	5.4	5.8	5.4	8.7	8.0	6.5	5.4	7.6	6.9	2.9
	AIR ENTERING HEATING COIL	°F	52	52	52	52	52	52	52	52	52	52
	AIR LEAVING HEATING COIL	°F	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
	HHW ENTERING & LEAVING TEMPERATURE	°F - °F	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110	140 – 110
	WATER FLOW	GPM	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5
	RUNOUT PIPE SIZE	IN.	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	MINIMUM # OF ROWS	#	1	1	1	1	1	1	1	1	1	1
	CONTROL VALVE (TYPE)		2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
SOUND CRITERIA - (NOTE 1)												
	INTEGRAL SILENCER		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	MAX DISCHARGE SOUND RATING	NC	30	30	30	30	30	30	30	30	30	30
	MAX RADIATED SOUND RATING	NC	25	25	25	25	25	25	25	25	25	25

BUILDING AIR BALANCE - EQUIPMENT SUMMARY

OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
DOAS-B.1	9,390	EF-5.1	3,000
AHU-FUTURE	-2,100		
TOTAL	7,290	TOTAL	3,000
BUILDING PRESSURIZATION		(+)	4,290

VENTILATION RATE

		EXHAUST AIR	OUTSIDE AIR	
TYPE OF SPACE		CFM / FT_2	CFM / PERSON	CFM / FT_2
	BREAK ROOMS		5	0.06
	COMMON CORRIDORS		0	0.06
	CONFERENCE / MEETING		5	0.06
	CORRIDORS		0	0.06
	JANITOR / TRASH	1	0	0.00
	LECTURE CLASSROOM		7.5	0.06
	LIBRARIES		5	0.12
	OFFICE SPACE		5	0.06
	RECEPTION AREAS		5	0.06
	STORAGE ROOMS (UNOCCUPIED)		0	0.00
	TOILET (PUBLIC)	50/70	0	0.00

NOTES:
2. VENTILATION RATES CALCULATED PER REQUIREMENTS OF FBC, MECHANICAL 2023.
3. EXHAUST IS PER WATER CLOSET AND/OR URINAL. HIGHER RATE USED.

DESIGN CONDITIONS

OUTDOOR CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)			
	COOLING (0.4% ANNUAL)	°Fdb - °Fwb	96.2 - 76.2
	HEATING (99.6% ANNUAL)	°Fdb	26.5
INDOOR CONDITIONS - SUMMER			
	OFFICE AREAS (EXCEPT AS NOTED BELOW)	°Fdb - %RH	74 - 55
	CLASSROOMS	°Fdb - %RH	74 - 50
	TELECOMMUNICATION ROOMS	°Fdb - %RH	78 - 55
	MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	°Fdb - %RH	80 - 50
INDOOR CONDITIONS - WINTER			
	OFFICE AREAS (EXCEPT AS NOTED BELOW)	°Fdb - %RH	70 - 30
	CLASSROOMS	°Fdb - %RH	70 - 30
	TELECOMMUNICATION ROOMS	°Fdb - %RH	65 - 30
	MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	°Fdb - %RH	70 - 30

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					01/16/2026	STC	STC	DESIGN DEVELOPMENT
							WJA	50% CONSTRUCTION DOCUMENTS
								DEMOLITION PACKAGE
					06/16/2026	STC	WJA	100% CONSTRUCTION DOCUMENTS

FSU

Client: Florida State University
Tallahassee, Florida

Job Title: Kellogg Building Remodeling
Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
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Description: Schedules

Sheet No.: M401

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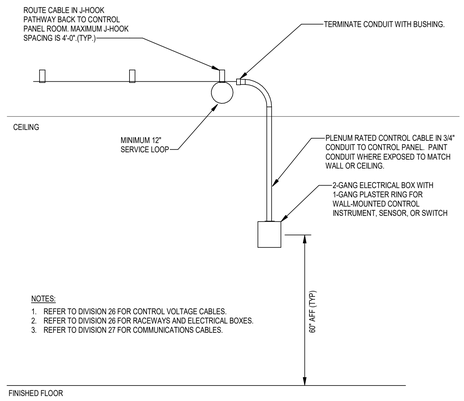
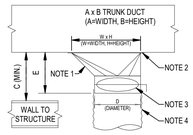


NOTES:
1. REFER TO DIVISION 26 FOR CONTROL VOLTAGE CABLES.
2. REFER TO DIVISION 26 FOR RACEWAYS AND ELECTRICAL BOXES.
3. REFER TO DIVISION 27 FOR COMMUNICATIONS CABLES.

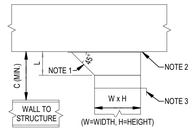
G WALL-MOUNTED CONTROL DEVICE ROUGH-IN



ROUND DUCT

D	E (NOTE 5)	WxH (NOTE 5)	TRUNK DUCT HEIGHT (B MIN.)	C	
				NO FIRE DAMPER	WITH FIRE DAMPER
6	8.5	12 x 6	8	9	12
8	8.5	12 x 6	8	9	12
10	9.5	16 x 6.75	10	10	13
12	10.5	18 x 8.5	12	11	14
14	10.5	20 x 9.5	12	11	14
16	12	24 x 12	14	13	16

DIMENSIONS BASED ON CROWN PRODUCTS CO., INC.

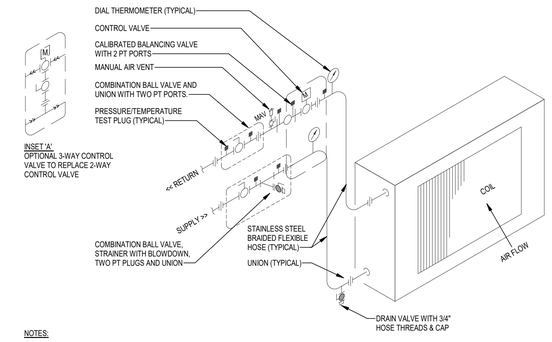


RECTANGULAR DUCT

NOTES:
1. 45° ENTRY.
2. 1" WIDE FLANGE WITH GASKET SEAL AROUND ENTIRE PERIMETER.
3. PROVIDE MANUAL BALANCING DAMPER. OPERATOR SHALL PENETRATE INSULATION.
4. USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL.
5. USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL. DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.

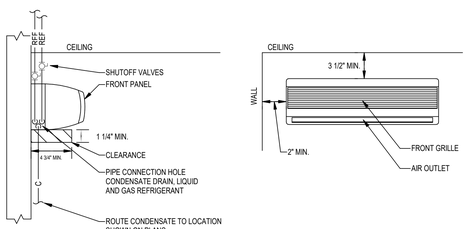
L = W/4 (4"MIN.)
H = B-2 (MAX.)
C = L+4 (WITH FIRE DAMPER)
C = L+2 (WITHOUT FIRE DAMPER)

D TYPICAL DUCT TAKE-OFF FITTINGS

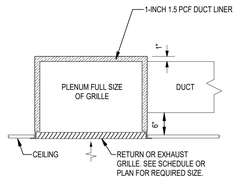


NOTES:
1. SEE AHU SCHEDULE FOR 2-WAY OR 3-WAY REQUIREMENTS.

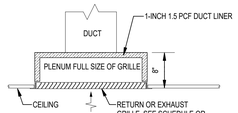
A COIL PIPING FOR SATs



H DUCTLESS - WALL MOUNTED INDOOR UNIT



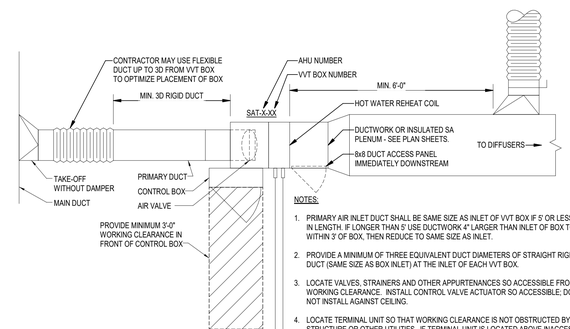
SIDE ENTRY



TOP ENTRY

NOTES:
1. INSTALL BLADES OF GRILLE SO SIGHT LINE INTO PLENUM IS OBSCURED FROM ROOM.
2. PROVIDE APPROPRIATE MOUNTING HARDWARE FOR GRILLE TO ACCOMMODATE CEILING TYPE.

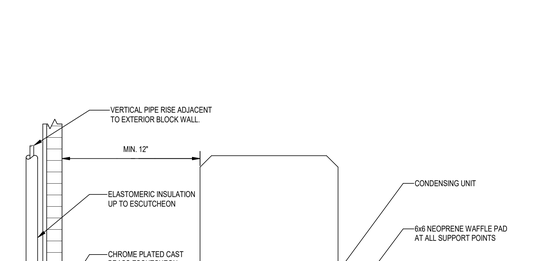
E RETURN OR EXHAUST CEILING GRILLE



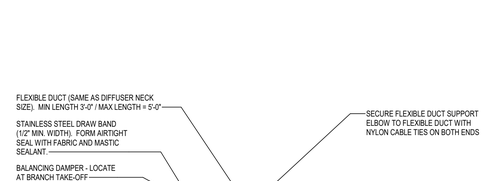
NOTES:
1. PRIMARY AIR INLET DUCT SHALL BE SAME SIZE AS INLET OF VVT BOX IF 5' OR LESS IN LENGTH. IF LONGER THAN 5' USE DUCTWORK 4" LARGER THAN INLET OF BOX TO WITHIN 3' OF BOX, THEN REDUCE TO SAME SIZE AS INLET.
2. PROVIDE A MINIMUM OF THREE EQUIVALENT DUCT DIAMETERS OF STRAIGHT RIGID DUCT (SAME SIZE AS BOX INLET) AT THE INLET OF EACH VVT BOX.
3. LOCATE VALVES, STRAINERS AND OTHER APPURTENANCES SO ACCESSIBLE FROM WORKING CLEARANCE. INSTALL CONTROL VALVE ACTUATOR SO ACCESSIBLE; DO NOT INSTALL AGAINST CEILING.
4. LOCATE TERMINAL UNIT SO THAT WORKING CLEARANCE IS NOT OBSTRUCTED BY LIGHTS, STRUCTURE OR OTHER UTILITIES. IF TERMINAL UNIT IS LOCATED ABOVE INACCESSIBLE CEILING PROVIDE MINIMUM 18"x18" CEILING ACCESS PANEL WITHIN WORKING CLEARANCE FOR TERMINAL UNIT.
5. PROVIDE MINIMUM 6'-0" OF DUCT BETWEEN TERMINAL UNIT AND FIRST BRANCH TAKE-OFF.

B SUPPLY AIR TERMINAL UNIT

J



F DUCTLESS SPLIT SYSTEM - CONDENSING UNIT REFRIGERANT PIPING



NOTES:
1. FLEXIBLE DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT.
2. PROVIDE INSULATION ON BACK OF DIFFUSERS (SEE SPECIFICATIONS). SEAL VAPOR TIGHT WITH FABRIC AND MASTIC.
3. PULL INNER LINER OF FLEXIBLE DUCT OVER DIFFUSER COLLAR AND SECURE WITH DRAW BAND.
4. SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH DRAW BAND.
5. MAINTAIN MINIMUM RADIUS (R) OF 1.5 TIMES THE DUCT DIAMETER.

C FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER

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Tallahassee, Florida

Job Title: Kellogg Building Remodeling Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

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www.think3d.net

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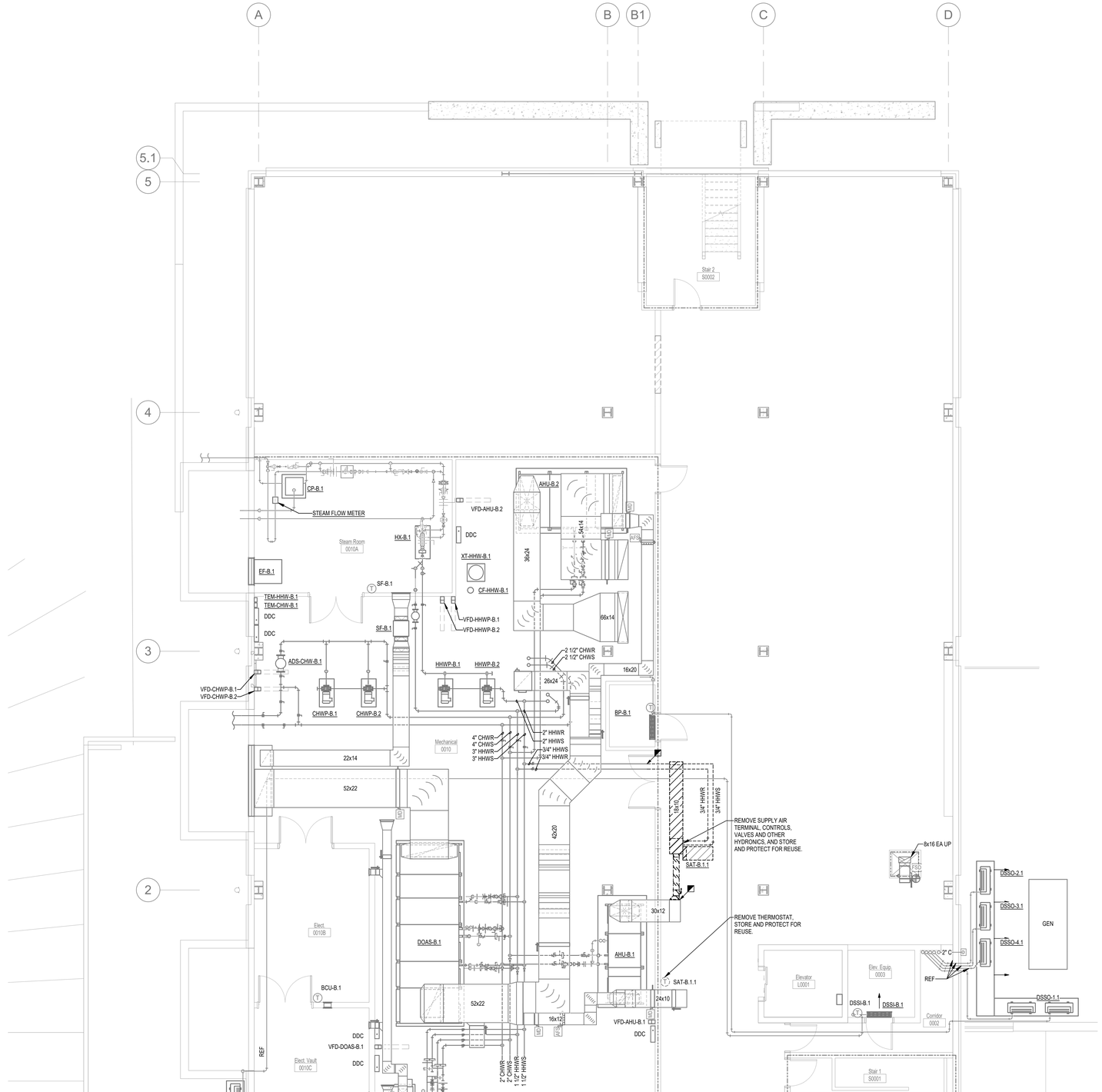

N 1 Basement Alternate Basement
3/16" = 1'-0"

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Consultant:

Project #: 22470
Phase: 100% Construction Documents

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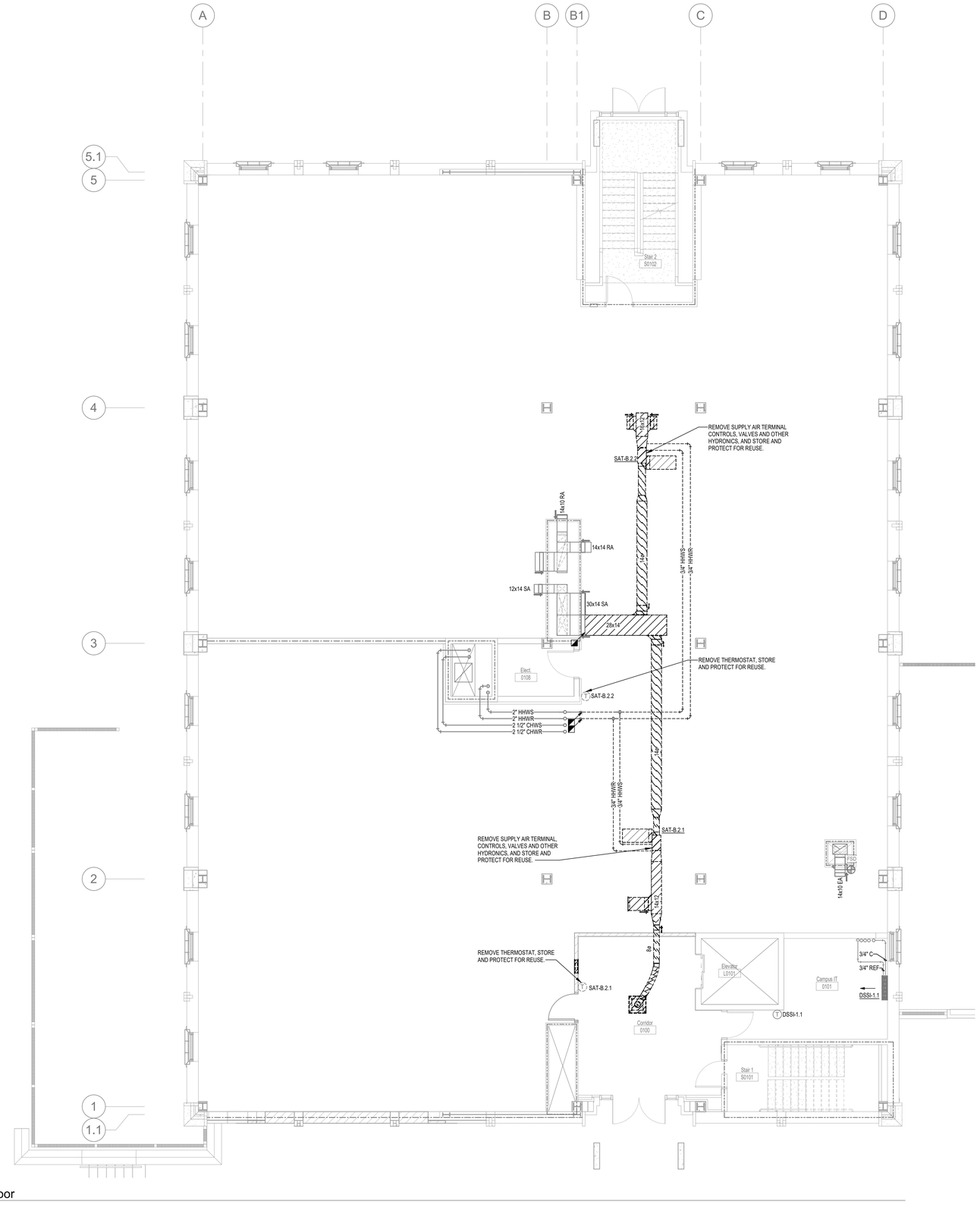

N 1 First Floor
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Tallahassee, Florida

Job Title:
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Consultant:

Project #: 22470
Phase: 100% Construction Documents

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Demolition - First Floor Plan

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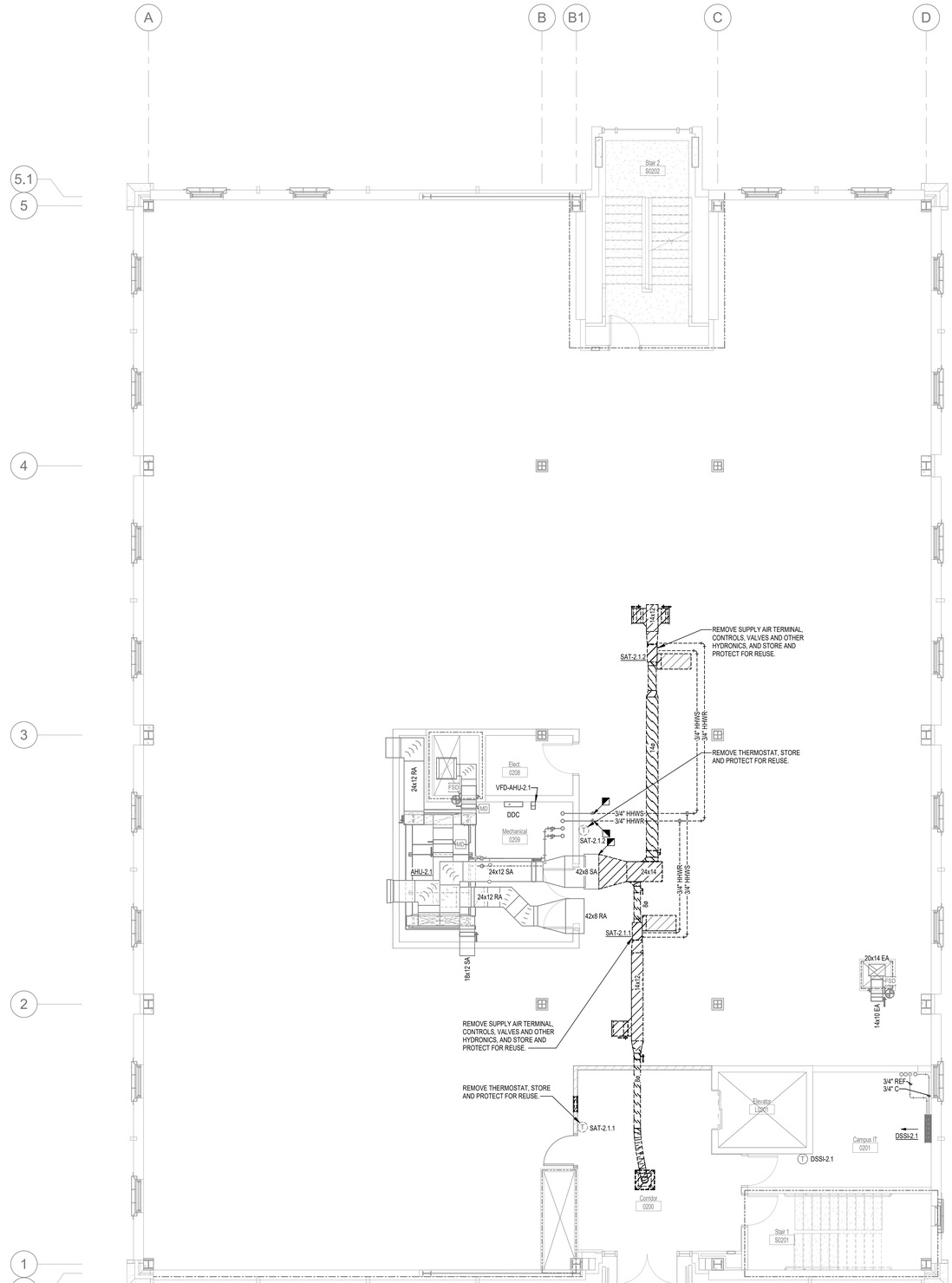

N 1 Second Floor Alternate 2nd Floor
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DEMOLITION PACKAGE			
100% CONSTRUCTION DOCUMENTS	WJA	STC	06/16/2026

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Tallahassee, Florida

Job Title:
Kellogg Building Remodeling
Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

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Description:
Demolition - Second Floor Plan

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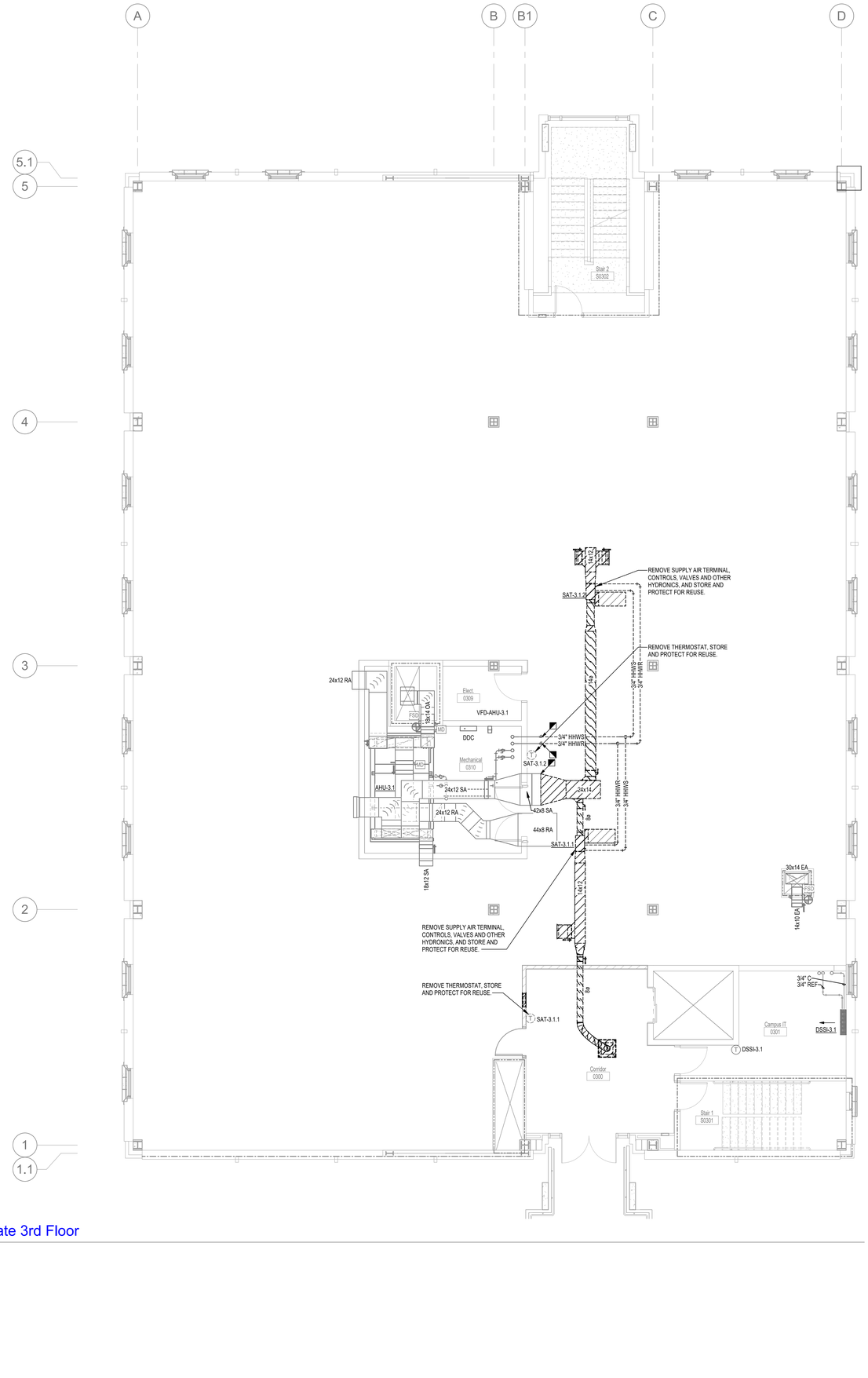

N 1 Third Floor Alternate 3rd Floor
3/16" = 1'-0"

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FSU

Client:
Florida State University
Tallahassee, Florida

Job Title:
Kellogg Building Remodeling
Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Demolition - Third Floor Plan

Sheet No.:
MD103

H2 ENGINEERING
114 EAST 5th AVENUE TALLAHASSEE, FL 32303 PHONE 850.224.7602
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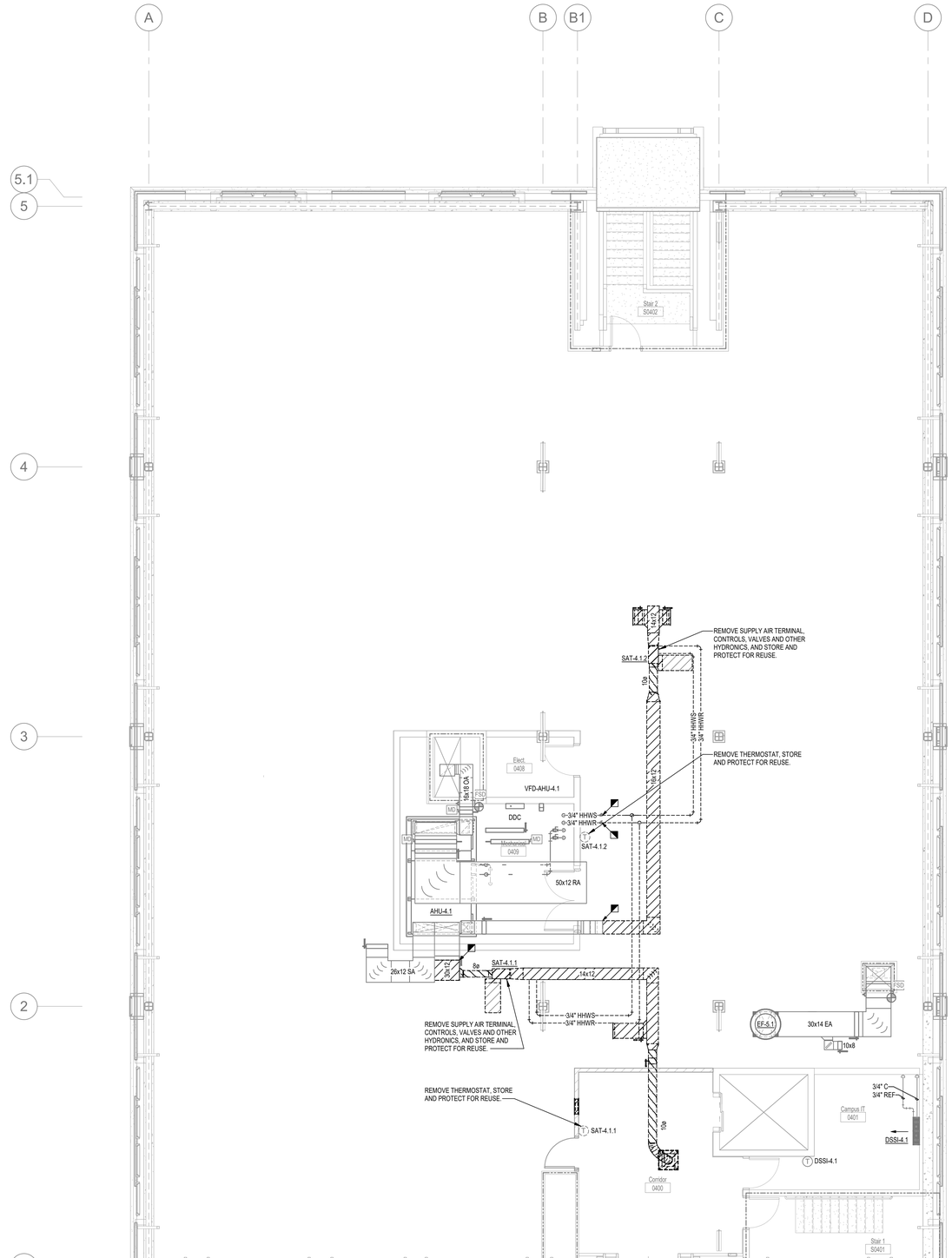

N 1 Fourth Floor Alternate 4th Floor
3/16" = 1'-0"

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FSU

Client: Florida State University
Tallahassee, Florida

Job Title: Kellogg Building Remodeling Phase 2, Volume 3 (of 3)

Consultant:

Project #: 22470
Phase: 100% Construction Documents

Seal:

ALW

Architects Lewis + Whitlock
206 West Virginia St.
Tallahassee, Florida 32301
850.942.1718
www.think3d.net

Description:
Demolition - Fourth Floor Plan

Sheet No.:
MD104

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