

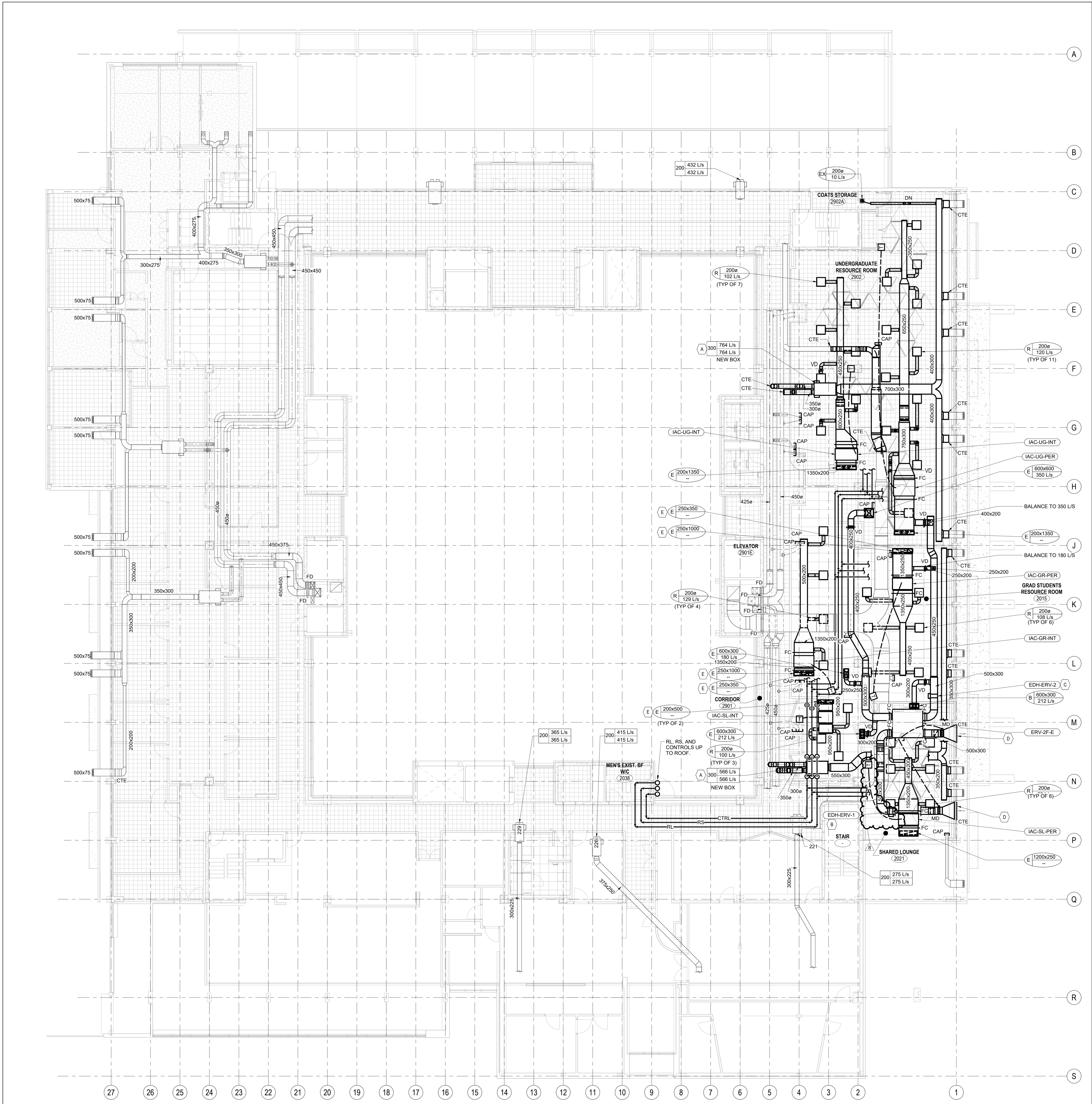
C:\Users\liben\Documents\P164-24-165\_M\_26\_ben.lvt\7CN.rvt 2026-04-30 3:13:48 PM

GENERAL NOTES - 2ND FLOOR HVAC

1 REBALANCE EXISTING DUAL DUCT TERMINAL UNITS BY REFERENCING THE ANEMOSTAT RIVE OPERATING MANUAL TO ADJUST THREADED ROD LENGTH. FOR EASE OF BALANCING AND FINETUNING OF THREADED ROD, BLOCK OF DISCHARGE OF BOX BEFORE INTERNAL BAFFLES AND MEASURE AIRFLOW OF BOX FROM AIR BLOWING THROUGH BOX ACCESS DOOR.

MECHANICAL NOTES

- A PROVIDE NEW DUAL DUCT TERMINAL UNIT COMPLETE WITH HANGERS AND PNEUMATIC CONTROLS. INLET DUCTS SHALL BE RIGID, FLEXIBLE DUCTS IS NOT ACCEPTABLE. MODIFY PNEUMATIC CONTROLS TO CONVERT SINGLE ACTUATOR SIGNAL TO DUAL ACTUATOR SIGNAL (1 FOR HEAT AND 1 FOR COOL).
- B PROVIDE NEW DUCT HEATER FOR OUTDOOR AIR PREHEAT COMPLETE WITH HANGERS AND CONTROLS. POWER CONNECTION BY ELECTRICAL CONTRACTOR.
- C PROVIDE NEW DUCT HEATER FOR SUPPLY AIR TEMPERING COMPLETE WITH HANGERS AND CONTROLS. POWER CONNECTION BY ELECTRICAL CONTRACTOR.
- D CONNECT TO EXISTING LOUVER APPROXIMATELY 1200x350. SITE CONFIRM SIZE PRIOR TO FABRICATING DUCT CONNECTION.
- E PROVIDE TWO GRILLES SPLIT BETWEEN T-BAR. LENGTH OF GRILLE CAN BE ADJUSTED BASED ON SITE CONDITIONS PRIOR TO ORDERING TO HAVE THE SAME TOTAL LENGTH.



University of Toronto  
UNIVERSITY PLANNING,  
DESIGN & CONSTRUCTION

Design & Engineering

255 McCaul Street, 4th Floor, Toronto, Ontario M5T 1W7

This drawing is the property of the University of Toronto, and must be returned upon completion of the work. All information shown on this drawing is for use on this specific project. Contractor must verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.

8	ADDENDUM #1	2025-05-06
7	ISSUED FOR TENDER	2025-04-15
6	ISSUED FOR PERMIT	2025-03-10
5	ISSUED FOR RFP C3	2025-03-09
4	ISSUED FOR CLASS A COSTING	2025-02-18
3	ISSUED FOR 100% DD	2025-01-23
2	ISSUED FOR CLASS B COSTING	2025-01-17
1	ISSUED FOR RFP DD	2025-12-01
REV.	DESCRIPTION	DATE

KEY PLAN (NTS) SEAL

PROJECT TITLE  
UNIVERSITY OF TORONTO  
**33 URSULA FRANKLIN  
MATH OFFICE  
RENOVATION**

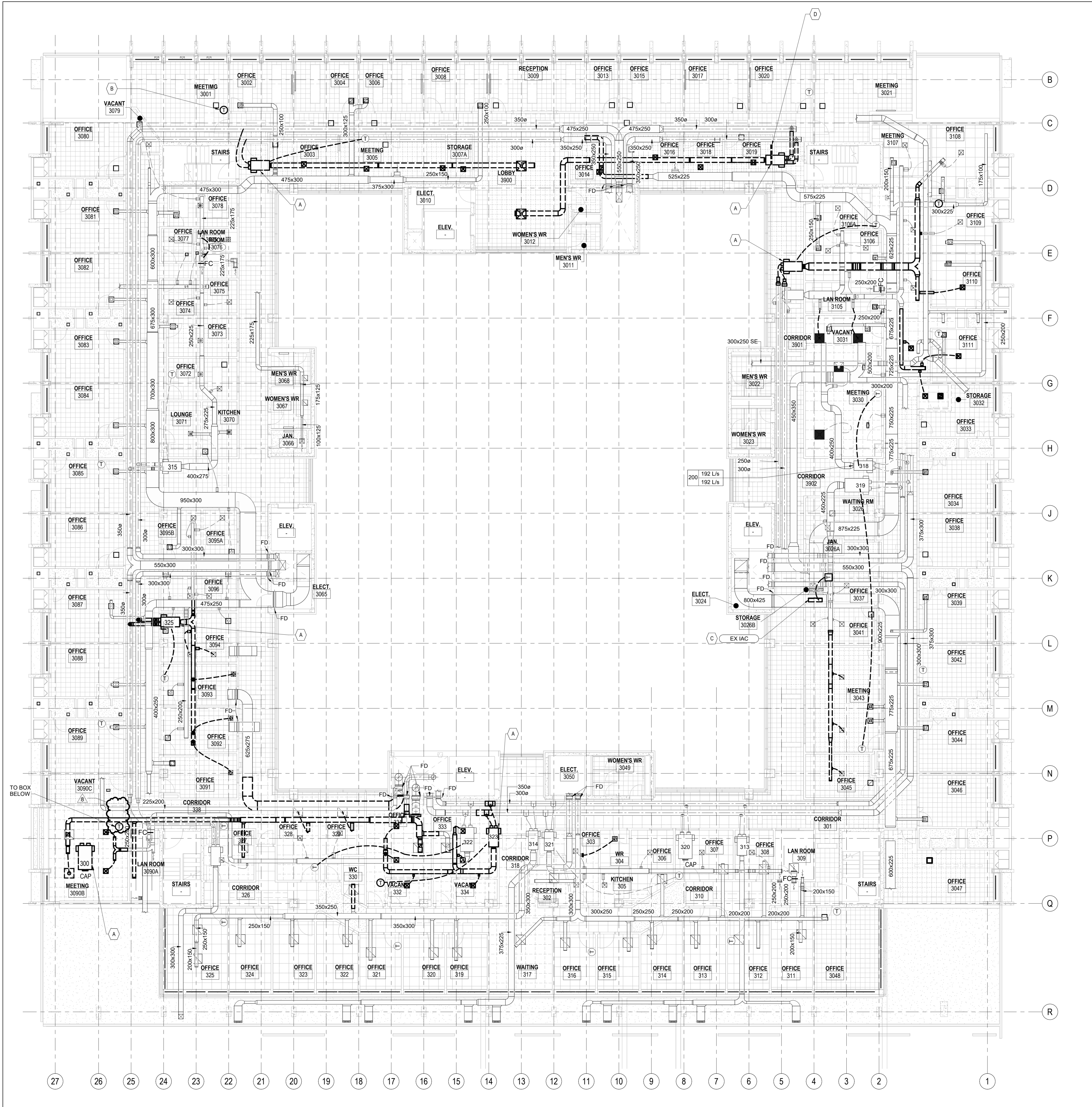
33 URSULA FRANKLIN ST.  
DRAWING SHEET TITLE  
**SECOND FLOOR PLAN -  
HVAC NEW WORK**

DRAWN BY: BL / AL SCALE: 1 : 100  
REVIEWED BY: AL DATE CREATED: 2025-08-05  
UNIVERSITY PROJECT NUMBER NORTH POINT  
P164-24-165

DRAWING NUMBER  
**M321**  
REV. NUMBER  
**8**

C:\Users\liben\Documents\P164-24-165\_M\_26\_ben\U7CN.rvt 2026-04-30 3:13:51 PM

- MECHANICAL NOTES**
- A REMOVE EXISTING DUAL DUCT BOX COMPLETE WITH HANGERS AND CONTROLS TO EXISTING PNEUMATIC THERMOSTAT
- B RELOCATE EXISTING THERMOSTAT TO OTHER SIDE OF WALL. SEE DRAWING M331 FOR NEW LOCATION
- C REMOVE EXISTING SPLIT AC UNIT COMPLETE WITH OUTDOOR UNIT, REFRIGERANT PIPING, CONTROLS, AND CONDENSATE. CONFIRM IF THIS UNIT IS A MULTI SPLIT UNIT PRIOR TO DEMOLITION. POWER DISCONNECTION BY ELECTRICAL CONTRACTOR. PATCHING OF BUILDING ENVELOPE BY GENERAL CONTRACTOR
- D REMOVE EXISTING BASEBOARD HEATER COMPLETE WITH CONTROLS. POWER DISCONNECTION BY ELECTRICAL CONTRACTOR



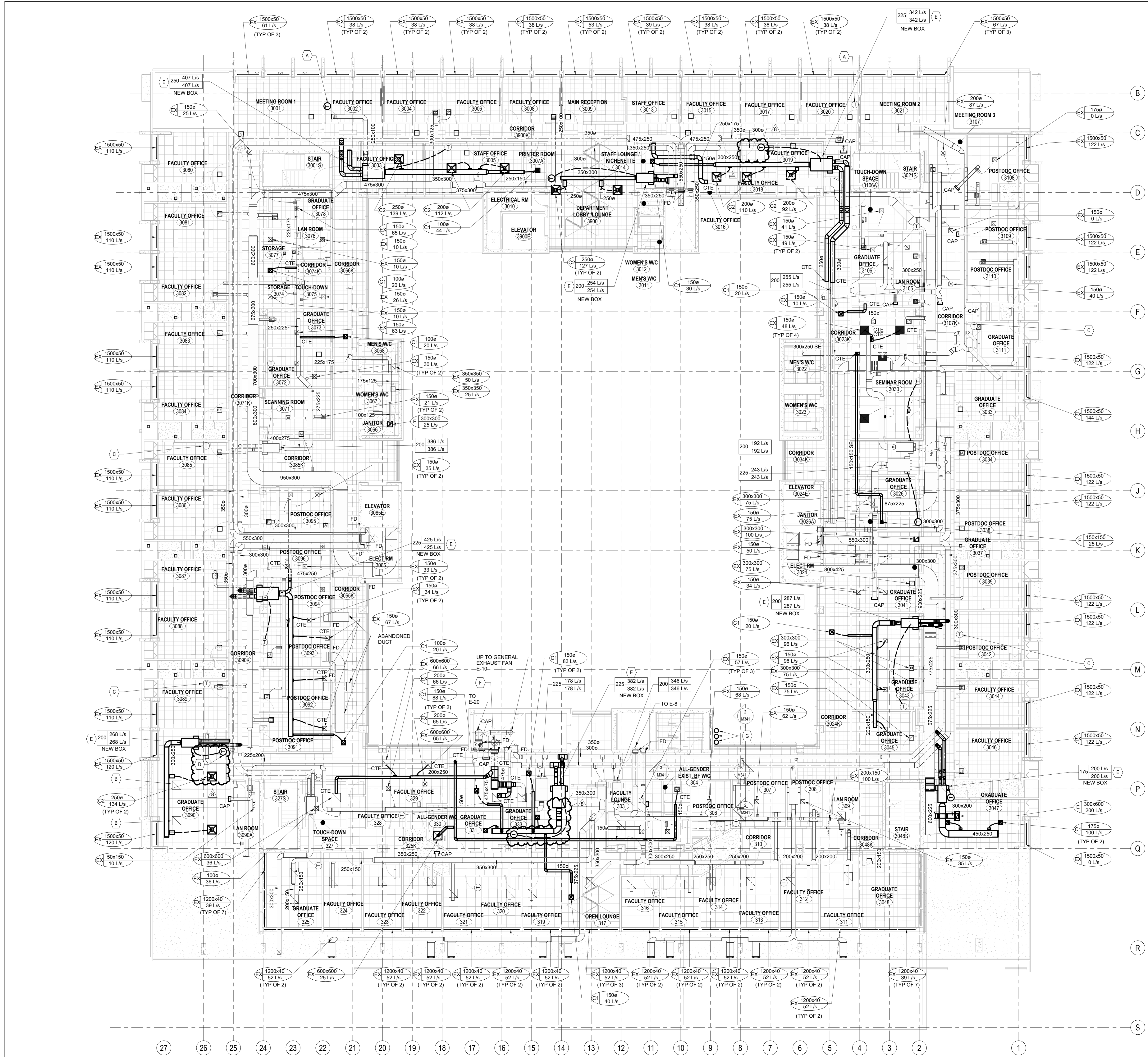


### GENERAL NOTES - 3RD FLOOR HVAC

1. REBALANCE ALL RETURN/EXHAUST AIR GRILLES SO THAT TOTAL RETURN/EXHAUST AIR FOR EACH ROOM EQUALS TOTAL SUPPLY AIR TO EACH SPACE. FOR SPACES ADJACENT TO DECOMMISSIONED WASHROOMS, TOTAL RETURN AIR FROM ROOM SHALL BE THE SAME AIRFLOW AS THE SUPPLY AIR FLOW MINUS THE ADJACENT WASHROOM EXHAUST.
2. REBALANCE EXISTING DUAL DUCT TERMINAL UNITS BY REFERENCING THE ANEMOSTAT #IVE OPERATING MANUAL TO ADJUST THREADED ROD LENGTH. FOR EASE OF BALANCING AND FINETUNING OF THREADED ROD, BLOCK OF DISCHARGE OF BOX BEFORE INTERNAL Baffles AND MEASURE AIRFLOW OF BOX FROM AIR BLOWING THROUGH BOX ACCESS DOOR.

### MECHANICAL NOTES

- A. RELOCATE THERMOSTAT TO THIS LOCATION. CONNECT THERMOSTAT TO NEW DUAL DUCT TERMINAL UNIT IN LEVEL BELOW SERVING SPACE THAT THERMOSTAT IS LOCATED IN.
- B. REWORK RETURN DUCTWORK ASSOCIATED WITH THIS GRILLE TO ALLOW FOR INSTALLATION OF NEW SUPPLY AIR DUCTWORK TO SPACE.
- C. CONNECT EXISTING THERMOSTAT TO NEW DUAL DUCT TERMINAL UNIT IN LEVEL BELOW SERVING SPACE THAT THERMOSTAT IS LOCATED IN.
- D. DISCONNECT PNEUMATIC CONTROL TUBING TO DUAL DUCT TERMINAL UNIT IN FLOOR BELOW.
- E. PROVIDE NEW DUAL DUCT TERMINAL UNIT COMPLETE WITH HANGERS AND PNEUMATIC CONTROLS. INLET DUCTS SHALL BE RIGID, FLEXIBLE DUCTS IS NOT ACCEPTABLE. MODIFY PNEUMATIC CONTROLS TO CONVERT SINGLE ACTUATOR SIGNAL TO DUAL ACTUATOR SIGNAL (1 FOR HEAT AND 1 FOR COOL).
- F. PROVIDE NEW 415MM ROUND DUCT ON FLOOR ABOVE TO CONNECT EXISTING BRANCH DUCT TO EXISTING FAN E-11. SHAFT AND FAN IS ACCESSIBLE FROM 4TH FLOOR WITH CAT WALK. ALLOW FOR 10 FEET OF DUCTWORK COMPLETE WITH HANGERS AND SUPPORTS.
- G. REFRIGERANT LIQUID, SUCTION AND CONTROLS FROM ROOF TO FLOOR BELOW.



REV.	DESCRIPTION	DATE
8	ISSUED FOR PERMIT	2025-08-06
7	ISSUED FOR PERMIT	2025-08-15
6	ISSUED FOR PERMIT	2025-03-10
5	ISSUED FOR PERMIT	2025-03-09
4	ISSUED FOR CLASS B COSTING	2025-02-18
3	ISSUED FOR 100% DD	2025-01-23
2	ISSUED FOR CLASS B COSTING	2025-01-17
1	ISSUED FOR 100% DD	2025-12-01

KEY PLAN (NTS) SEAL

PROJECT TITLE  
UNIVERSITY OF TORONTO  
**33 URSULA FRANKLIN  
MATH OFFICE  
RENOVATION**

33 URSULA FRANKLIN ST.  
DRAWING SHEET TITLE  
**THIRD FLOOR PLAN -  
HVAC NEW WORK**

DRAWN BY: BL / AL SCALE: 1 : 100  
REVIEWED BY: AL DATE CREATED: 2025-08-05

UNIVERSITY PROJECT NUMBER: NORTH POINT  
P164-24-165

DRAWING NUMBER  
**M331**  
REV. NUMBER  
**8**