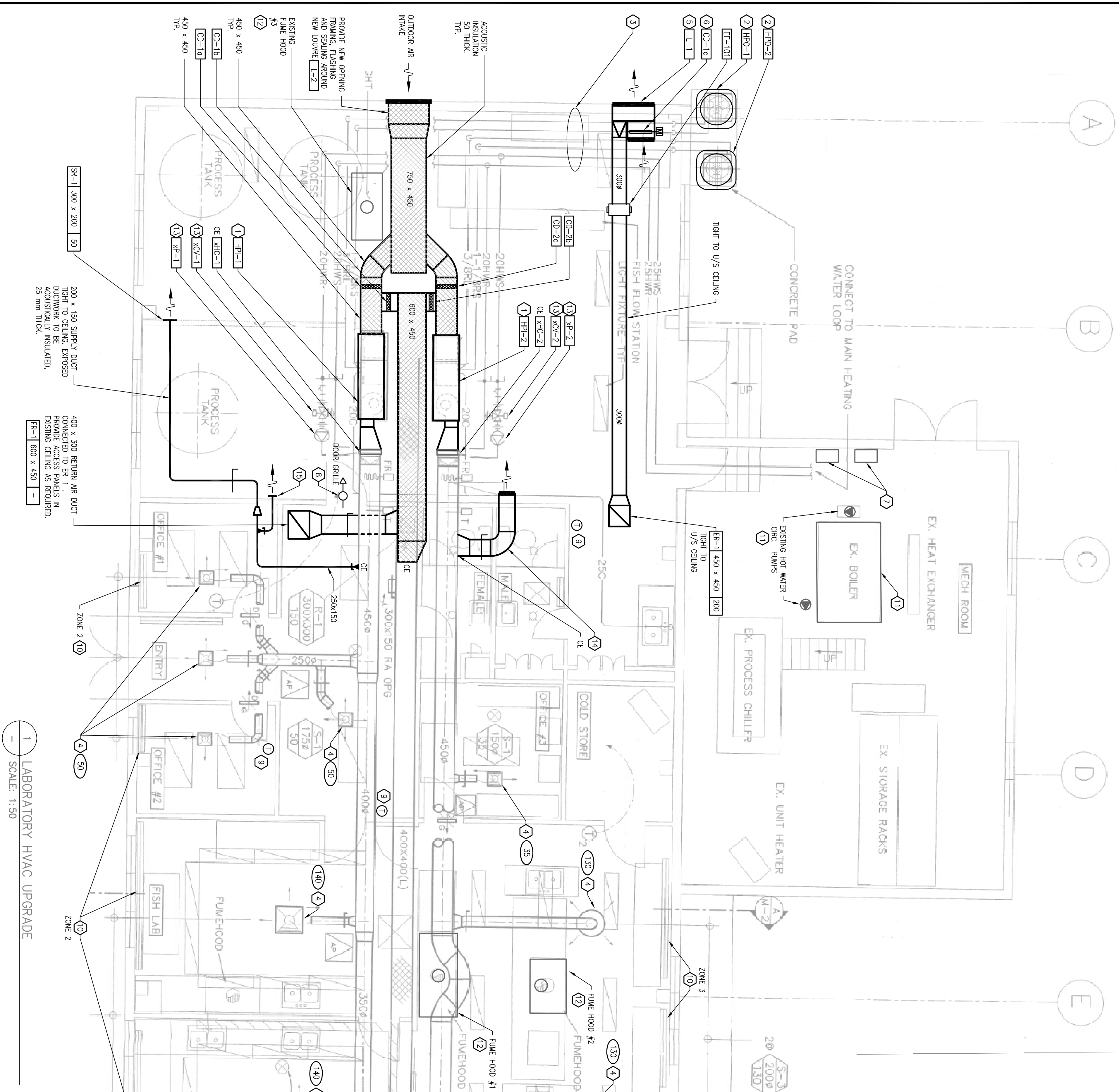
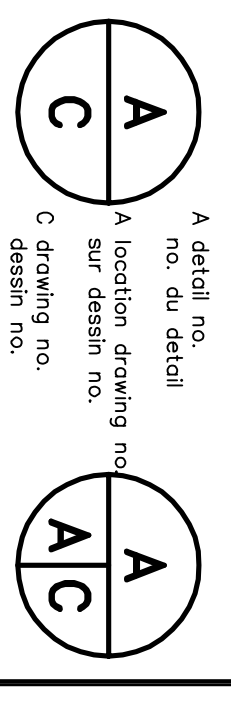


- DRAWING NOTES**
- PROVIDE NEW INDOOR HEAT PUMPS IN PLACE OF BOU-1 & 2. RECONNECT TO POWER, CONTROLS, DUCT WORK AND CONDENSATE DRAIN LINE. RE-USE EXISTING BREAKER AND POWER SUPPLY.
 - PROVIDE NEW OUTDOOR HEAT PUMPS IN PLACE OF CU-1 & 2. RE-USE EXISTING BREAKER AND POWER SUPPLY.
 - SUPPLY AND INSTALL INSULATED REFRIGERANT LINES AS WELL AS POWER SUPPLY AND CONTROLS FOR HEAT PUMPS.
 - REBALANCE AIR FLOW TO FLOW RATE INDICATED IN I/S.
 - PROVIDE HOLE FRAMING, FLASHING AND SEALING FOR RELOCATED 300X400 CEILING. FRAME RELOCATED INSULATED FLEXIBLE DUCT WITH TWO PARTS UP TO THE FACE OF THE LOWER, 600X400 TO SERVE CU-1 & AND 300X400 TO SERVE EF-101.
 - RELIEF AIR OPENING 800X400 C/W [ER-1] 600 x 400 -
 - PROVIDE NEW BREAKERS AND POWER SUPPLY FOR EF-1 AND CONTROL DEVICES. 2-15AMP, 120V/1/60 CIRCUITS.
 - PROVIDE [DC-1] 400 x 400 [] IN EXISTING DOOR.
 - PROVIDE ROOM TEMPERATURE SENSOR CONNECTED TO CONTROL SYSTEM, FOR MONITORING AND CONTROL.
 - PROVIDE NEW ROOM TEMPERATURE CONTROL VALVE IN EXISTING HWS PIPING. PROVIDE SENSOR AND LINE SIZE (1/2" OR 20# mm)
 - CONTROL VALVE (SITE CONTROL PIPE SIZE). RE-STABILISH HOT WATER FLOW THROUGH EXISTING HEATERS AND REMOVE EXISTING PNEUMATIC CONTROL VALVES. PROVIDE ONE CONTROL VALVE FOR EACH OF THE CHILLER ZONES. VALVES SHALL BE CONTROLLED BY THE CHILLER SPACES. MAKE GOOD ANY CEILINGS AND WALLS DISTURBED BY WORK AND PROVIDE ACCESS PANELS AS REQUIRED.
 - PROVIDE NEW CONTROL CONNECTIONS TO EXISTING BOILER AND CIRCULATION PUMPS (PRIMARY AND SECONDARY). PROVIDE BOILER STATUS MONITORING AND CONTROL. PROVIDE STATUS MONITORING AND SECONDARY PUMP STATUS AND RUNNING VALVE POSITION. EXISTING BOILER CONTROLS TO REMAIN. CONTROL PROPER OPERATION OF BOILER CONTROLS AND HW TEMPERATURE RESET.
 - PROVIDE FUME HOOD STATUS SIGNAL CONNECTED TO CONTROLS STATUS (MANUALLY CONTROLLED, MONITOR ONLY).
 - PROVIDE NEW CONTROL POINTS AND SEQUENCES FOR EXISTING CONTROL VALVE AND CIRCULATION PUMP. PROPORTIONAL CONTROL FOR CV ON/OFF AND STATUS FOR CIRCULATING PUMP. EXISTING VALVES AND ACTUATORS MAY BE RE-USED IF SUITABLE. REPLACE IF NOT SUITABLE.
 - PROVIDE NEW 350X250 SUPPLY AIR DUCT C/W BALANCE DAMPER AND [SR-1] 150 x 250 [] AT TERMINATION.
 - PROVIDE NEW 200X150 SUPPLY AIR DUCT C/W BALANCE DAMPER AND [SR-1] 200 x 150 [] AT TERMINATION.



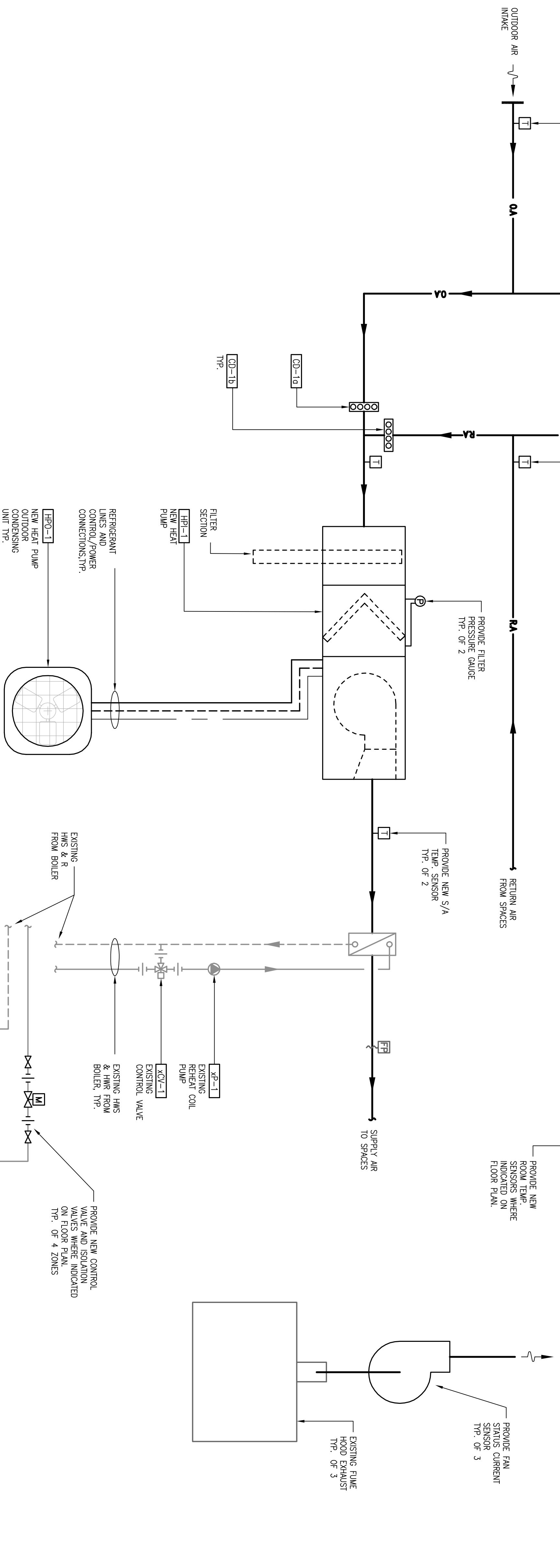
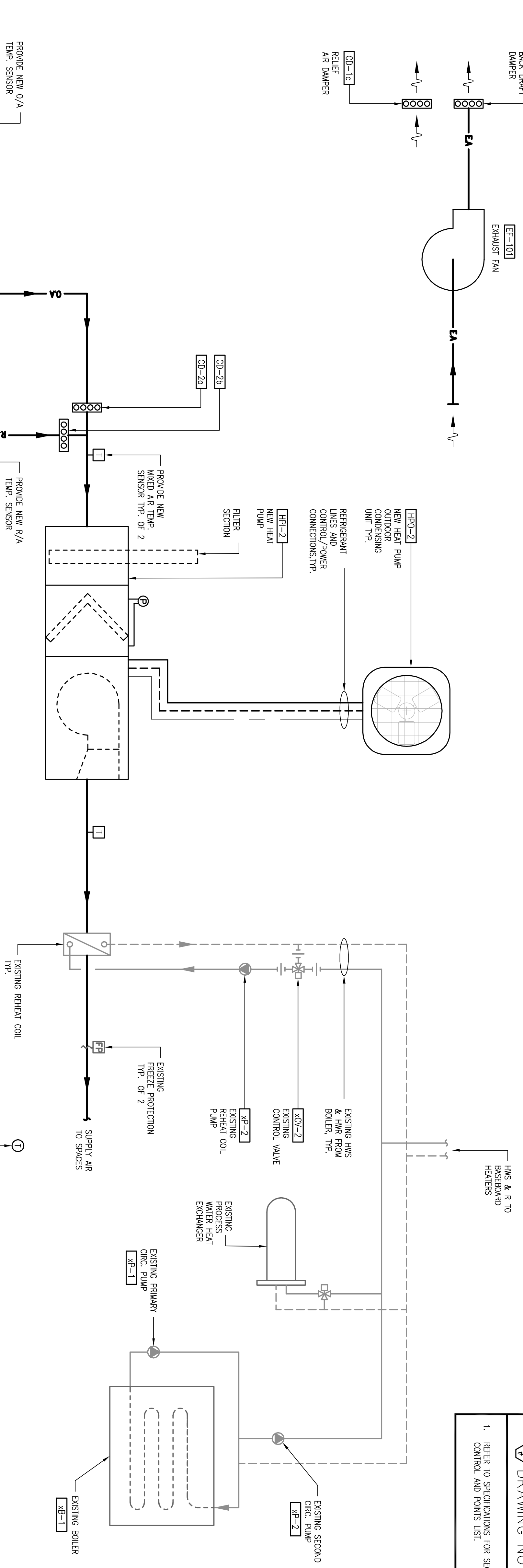
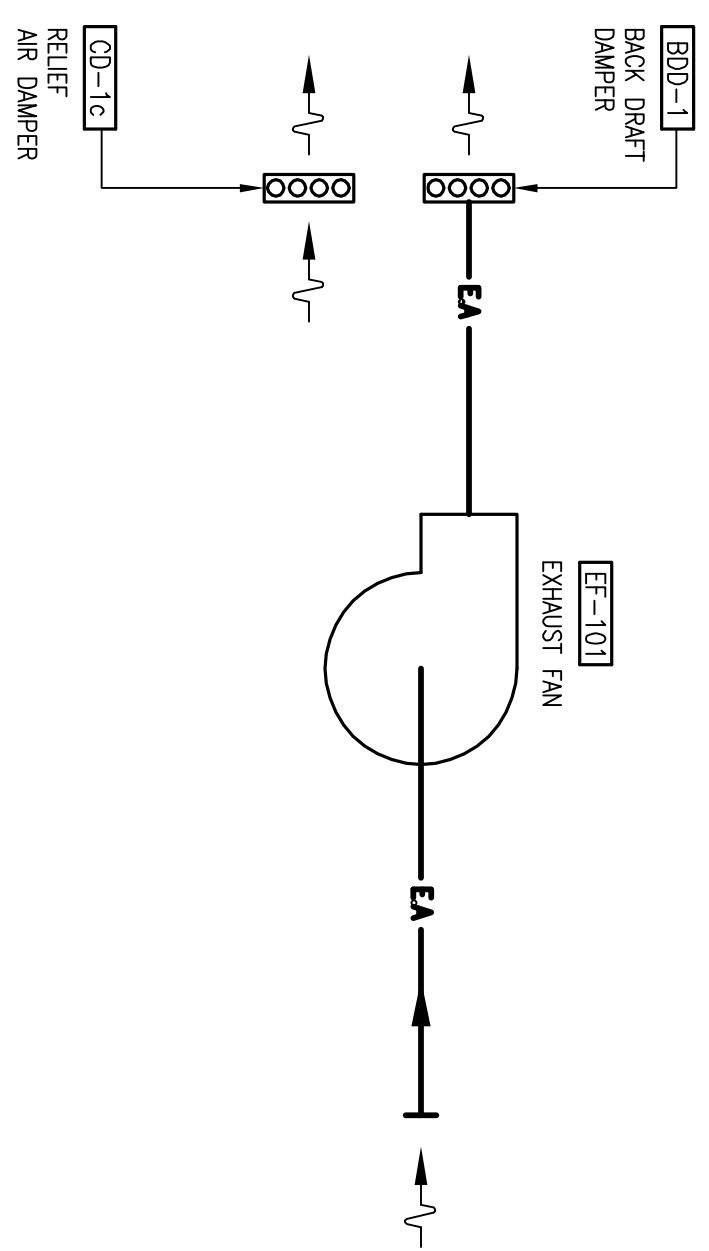
1 LABORATORY HVAC UPGRADE
SCALE: 1:50

project	CULPUS LAKE BRITISH COLUMBIA LABORATORY HVAC UPGRADE	projet	
drawing	MECHANICAL FLOOR PLAN LABORATORY HVAC UPGRADE	dessin	
designed by	DJC 1, 2016	conçu	
drawn by	DJC 1, 2016	dessiné	
date	DJC 1, 2016	exécuté	
reviewed by	DJC 1, 2016	examiné	
date	DJC 1, 2016	approuvé	
approved by			
date			
Tender		Submission	
PMC Project Manager			
Project number			
drawing no.	ME-2	no. du dessin	
		REV. 01	



revisions	1	ISSUED FOR TENDER	DEC 1 2016
	0	ISSUED FOR TENDER REVIEW	MAR 31 2016

DRAWING NOTES
1. REFER TO SPECIFICATIONS FOR SEQUENCES OF CONTROL AND POINTS LIST.



1 LABORATORY HVAC SYSTEM SCHEMATIC
SCALE: NTS

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revisions	no. du detail	no. du detail	date
1	ISSUED FOR TENDER	DEC 1 2016	
0	ISSUED FOR TENDER REVIEW	MAR 31 2016	

A A detail no.
C A location drawing no.
AC A drawing no. design no.

project **CULPUS LAKE BRITISH COLUMBIA LABORATORY HVAC UPGRADE**

designed **PW** **DEC 1, 2016**
drawn **PAN** **DEC 1, 2016**
date **DEC 1, 2016**
checked **PW**
date **DEC 1, 2016**
approved **PW**
date **DEC 1, 2016**

drawing no. **ME-3**
no. du dessin **REV 01**
Tender **PMG Project Manager**
Project number **---**
no. du projet **---**
no. du dessin **---**