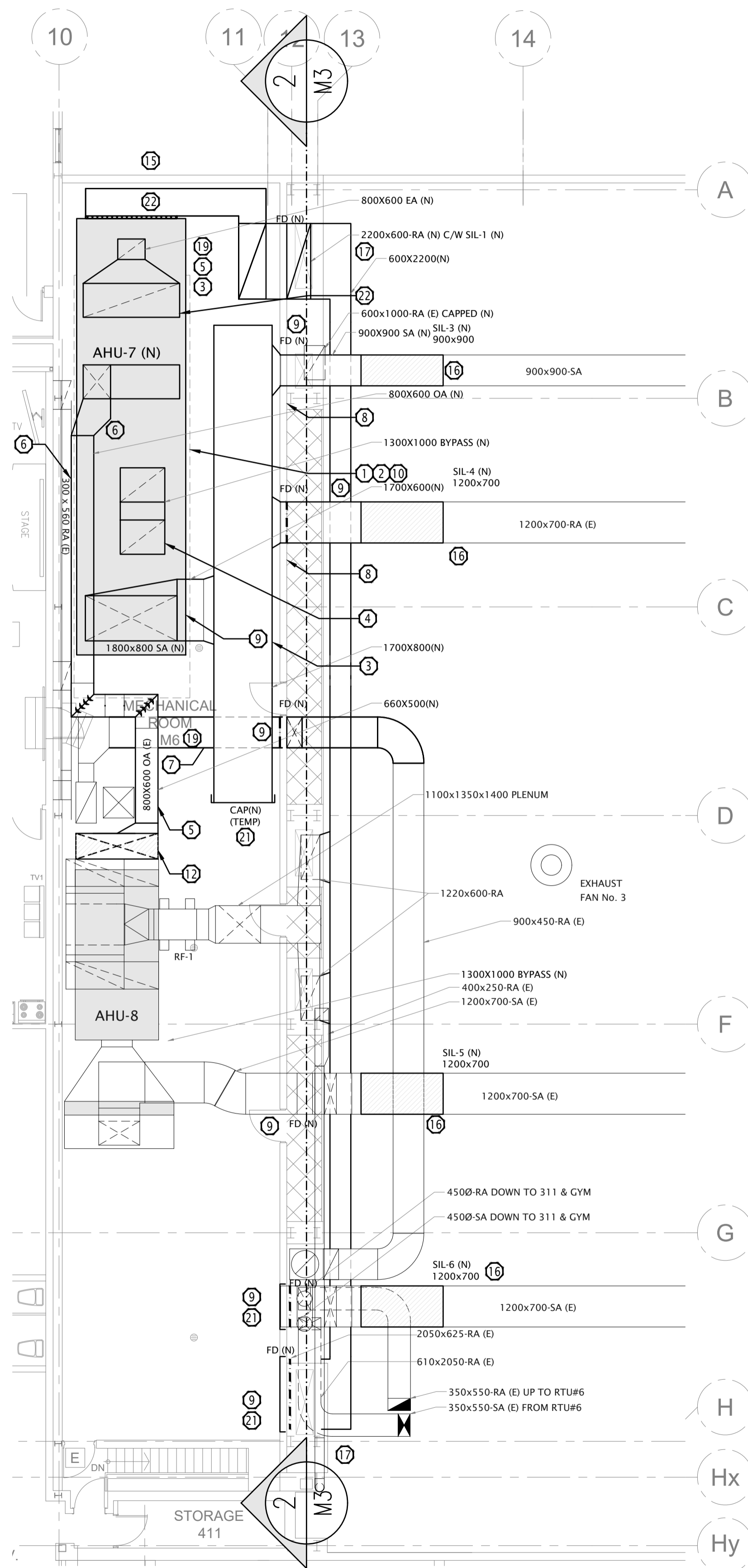


- DESCRIPTION OF HVAC DEMOLITION:**
- 1 REMOVE AHU-5 DUCTWORK INDICATED. CONTRACTOR SHALL COMPLETE THIS WORK AT TIME DIRECTED BY DEPARTMENTAL REPRESENTATIVE. PROVIDE NEW THERMAL INSULATION & TAGGING. CONTRACTOR SHALL REINSTATE DUCT SECTION WITH EASE OF REMOVAL FOR PHASE 2 WORK.
 - 2 REMOVE AND MODIFY OUTDOOR AIR DUCT TO SUIT PHASE 1 SCOPE OF WORK.
 - 3 REMOVE DUCTWORK IN VERTICAL TO ALLOW FOR INSTALLATION OF VERTICAL RETURN DUCT SILENCERS.
 - 4 REMOVE DUCTWORK TO ALLOW FOR INSTALLATION OF DEPARTMENTAL REPRESENTATIVE SUPPLIED SILENCERS IN NEW WORK.
 - 5 REMOVE DUCTWORK TO ALLOW FOR SILENCER INSTALLATION.
 - 6 BAS CONTROLS CONTRACTOR SHALL REMOVE ALL CONTROLS ASSOCIATED WITH REMOVED AHU-7 AND AHU-9. RETAIN ROOM TEMPERATURE AND HUMIDITY SENSORS C/W WIRING FOR REUSE. AHU-9 CONTROLS TO REMAIN.



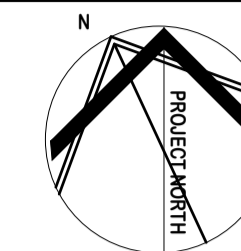
- DESCRIPTION OF HVAC NEW WORK:**
- 1 NEW AHU-7 SHALL BE MOUNTED DIRECTLY ON THE FLOOR WITHOUT HOUSEKEEPING PAD.
 - 2 INSTALL NEW AHU-7. AHU-7 SUPPLIED BY DEPARTMENTAL REPRESENTATIVE. UNIT CURRENTLY IN SECTIONS IN SPACE.
 - 3 PROVIDE NEW DUCTWORK.
 - 4 PROVIDE EXTERNAL COOLING COIL BYPASS DUCT.
 - 5 PROVIDE NEW RELIEF AIR DUCT C/W 50mm THICK THERMAL INSULATION.
 - 6 PROVIDE NEW OUTDOOR AIR DUCT C/W 50mm THERMAL INSULATION.
 - 7 PROVIDE NEW RETURN DUCTWORK LOWER TO ACCOMMODATE NEW DUCTWORK HEADER.
 - 8 PROVIDE NEW MOTORIZED DAMPERS. DAMPERS SHALL BE PARALLEL TYPE, SPRING RETURN OPEN, 24V.
 - 9 PROVIDE NEW FIRE DAMPERS C/W ACCESS DOORS. ACCESS DOORS SHALL BE IN MECHANICAL ROOM, NOT CLEANROOM.
 - 10 PROVIDE START-UP TESTING & BALANCING FOR AHU-7. START-UP SHALL BE BY UNIT MANUFACTURER. COORDINATE START-UP ACTIVITIES.
 - 11 AHU-7, AND ALL ASSOCIATED DAMPERS AND CONTROLS SHALL BE FULLY OPERATIONAL AT THE COMPLETION OF PHASE 1.
 - 12 CONNECT EXISTING AHU-8 OUTDOOR AIR DUCT TO MODIFIED OUTDOOR AIR DUCT FROM ROOF. PATCH & REPAIR INSULATION AS REQUIRED.
 - 13 AHU-8 (EXISTING) SHALL REMAIN FULLY OPERATIONAL DURING PHASE 1 WORK. MINIMIZE BAY 3 SHUTDOWN TIME BY INSTALLING AHU-7(N) WHILE AHU-8(E) IS OPERATING.
 - 14 ALL WORK TO BE COMPLETED IN CLEANROOM (BAY 3) SHALL BE COMPLETED AT TIME DIRECTED BY DEPARTMENTAL REPRESENTATIVE. REFER TO SPECIAL PRECAUTIONS IN SPECIFICATIONS FOR ALL WORK IN CLEAN ROOMS.
 - 15 PROVIDE NEW DUCTWORK THERMAL INSULATION C/W JACKET AND TAGGING.
 - 16 INSTALL NEW SILENCERS.
 - 17 INSTALL NEW VERTICAL RETURN DUCT SILENCERS
 - 18 ALL DUCTWORK IN MECHANICAL ROOM SHALL BE 18 GAUGE. ALL DUCTWORK IN BAY 3 SHALL BE 14 GAUGE.
 - 19 PROVIDE DUCT JOINTS IN LOCATION FOR EASY REMOVAL OF RETURN DUCT SECTION TO ALLOW FOR INSTALLATION OF AHU-8 IN PHASE 2. REFER TO DRAWING M9.
 - 20 ALL DUCTWORK IN BAY 3 TO BE PAINTED TO MATCH EXISTING COLOURS. ALL DUCTWORK IN MECHANICAL ROOM SHALL BE PAINTED WHITE.
 - 21 PROVIDE TEMPORARY DUCTWORK CAP.
 - 22 PROVIDE PENTHOUSE LOUVRE ON ROOF ABOVE CUT ROOF AND REINSTATE ROOFING TO TIE INTO PENTHOUSE LOUVRE CURB. PROVIDE C 200x17 STRUCTURAL STEEL FRAMING AROUND OPENING TO ADJACENT STRUCTURE. PENTHOUSE CURB SHALL BE SECURED TO FRAMING. PATCH & REPAIR ROOF. REFER TO DETAIL 5 ON M2 FOR ROOFING DETAILS. COORDINATE PENETRATION THROUGH ROOF TO MAINTAIN 3m DISTANCE FROM DOOR AND OPENINGS ON ROOF.
 - 23 PROVIDE SYSTEM TESTING & BALANCING.
 - 24 BASE BUILDING CONTROLS CONTRACTOR SHALL PROVIDE NEW BAS CONTROLS & INTEGRATION. REFER TO SPECIFICATIONS FOR DETAILS.

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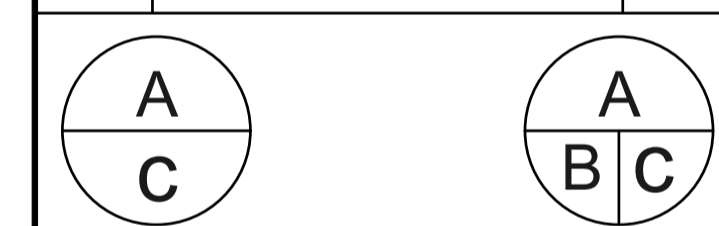
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IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION START AND REPORT ALL ERRORS, OMISSIONS AND/OR INTERFERENCES TO THE PROJECT ENGINEER.

THE CONTRACTOR SHALL FOLLOW THE PLAN AND SPECIFICATIONS AS INDICATED. FAILURE TO DO SO WILL VOID ANY LIABILITY OF THE PROJECT ENGINEER.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MATERIAL RELEVANT TO THE PROJECT. DO NOT SCALE DRAWINGS.

revisions	description	date
04	Issued for Tender	2021.08.31
03	Issued for Tender	2020.08.30
02	Re-Issued for Review	2016.08.04
01	Issued for Review	2016.03.14



project

BAY 3 REFIT PROJECT

PROJECT ADDRESS

drawing

dessin

LEVEL 4 MECHANICAL ROOM M6 PHASE 1 HVAC DEMOLITION & NEW WORK

Designed By	J.ALEXANDER	Conçu par	
Date		(2021/08/17)	
Drawn By	R.CAMERON	Dessiné par	
Date		(2021/08/17)	
Reviewed By	J.ALEXANDER	Examiné par	
Date		(2021/08/17)	
Approved By	J.ALEXANDER	Approuvé par	
Date		(2021/08/17)	
Tender	M. LACHOWICZ	Soumission	
Project Manager		Administrateur de projets	
Project no.		No. du projet	
			CSA15-G8b
Drawing no.		No. du dessin	
			M08