

KEY PLAN

SCALE: 1:500

MECHANICAL LEGEND			
Item	Description	Item	Description
	DUCT EXITING & CONNECT NEW PIPING		INLINE VALVE
	FLOW DIRECTION		TEMPERATURE CONTROL VALVE
	DOMESTIC COLD WATER PIPING		RECESSED CABINET MOUNTED FIRE EXTINGUISHER
	DOMESTIC HOT WATER PIPING		WALL MOUNTED FIRE EXTINGUISHER
	DOMESTIC HOT WATER RE-CIRC. PIPING		FIRE BLANKET IN CABINET
	EXISTING DOMESTIC COLD WATER PIPING		FLOOR CLEANOUT
	EXISTING DOMESTIC HOT WATER PIPING		THERMOSTAT (WITH OR WITHOUT GUARD)
	EXISTING DOMESTIC HOT WATER RE-CIRC. PIPING		TURNING VANES
	EXISTING SANITARY PIPING ABOVE FLOOR		SUPER/DRAIN/AIR DUCT
	EXISTING SANITARY PIPING BELOW FLOOR		ACOUSTIC DUCT LINING
	SANITARY PIPING ABOVE FLOOR		FIREMAN'S LAP
	SANITARY PIPING BELOW FLOOR		FIREMAN'S LAP COLLAR C/W BALANCING DAMPER
	EXISTING STORM PIPING ABOVE FLOOR		TRUNK MAIN BRANCH COLLAR C/W BALANCING DAMPER
	EXISTING STORM PIPING BELOW FLOOR		
	STORM PIPING ABOVE FLOOR		
	STORM PIPING BELOW FLOOR		
	SPRINKLER PIPING		BALANCING DAMPER
	HEATING WATER SUPPLY PIPING		OPPOSED BLADE DAMPER
	HEATING WATER RETURN PIPING		FIRE DAMPER
	NATURAL GAS PIPING		FLEXIBLE ROUND DUCT
	HIGH PRESSURE NATURAL GAS PIPING		RIGID ROUND DUCT
	FLOOR DRAIN		DIFFUSER/GRILLE SIZE (imp., TYPE & CAPACITY) (cm)
	TRAP PRIMER		HYDRONIC HEATING SIZE, TYPE & CAPACITY
	TEE CONNECTION		
	PIPE DOWN		ACCESS DOOR
	PIPE UP		EXPANSION COMPENSATOR/CONT
	SCREWED OR WELDED PIPE CAP		RETURN IN CABINET
	BALL VALVE		AFF
	BALANCING VALVE		EXISTING DUCT (SIZE AS INDICATED)

GRILLE SCHEDULE					CAPACITY INDICATED ON SCHEDULE REFER TO SPECIFICATION FOR CONSTRUCTION STANDARDS, ACCESSORIES AND ADDITIONAL INFORMATION.
Item	Type	Manufacturer & Model	Finish	Remarks	
D1	ROUND CEILING SUPPLY	KRIEGER RA2	BAKED OFF WHITE	C/W SAFETY CHAINS, SLIDING ADJUSTMENT NOT ACCEPTABLE	
D2	ROUND SUPPLY	KRIEGER RA2	BAKED OFF WHITE	C/W SAFETY CHAINS & GUARD, SLIDING ADJUSTMENT NOT ACCEPTABLE	
R1	CEILING RETURN/EXHAUST	KRIEGER EGCS	BAKED OFF WHITE	C/W SCREWED FASTENING	
R2	OMNIBUS RETURN	KRIEGER IS400	BAKED OFF WHITE	C/W SCREWED FASTENING	

## GENERAL NOTES

- A. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- B. CONTRACTOR TO INCLUDE COST FOR CONSULTANT TO COMPLETE ELECTRONIC CAD AS-BUILT DWGS (ALL PAGES). REFER TO SPEC SECTION 22 02 51 - RECORD DWGS.
- C. ALL PIPING, DUCTWORK, AND EQUIPMENT IS TO BE RESTRAINED TO MEET SEISMIC CODE REQUIREMENTS. SUPPLY AND INSTALL ALL SEISMIC RESTRAINT MATERIALS TO MANUFACTURER'S WRITTEN RECOMMENDATION. SEE SPEC SECTION 22 05 00 - SEISMIC RESTRAINT.
- D. SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO A LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MIN 14"-0" FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN VENT SPACE.
- E. WHERE DUCTWORK PENETRATES CORRIDOR WALL, CENTER DUCT(S) BETWEEN OWS(S).
- F. CO-ORDINATE WITH THE GENERAL CONTRACTOR ANY OWS(B) BRIDGING/CROSS BRACING RELATIONS OR REMOVAL/REPLACEMENT REQUIRED FOR INSTALLATION OF DUCTWORK.
- G. CONTRACTOR TO LOCATE ISOLATION VALVES / FREEZE PIPING / OR OTHERWISE DRAIN SYSTEMS TO ALLOW PROPOSED WORK TO PROCEED. REFILL SYSTEMS AS INDICATED.
- H. UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTOR SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE
  1. POTABLE WATER TEST (SEE SPEC 22 11 16 PART 3)
  2. COPY OF MANDATORY T258/CSA-814 GAS PRESSURE TEST TAG
  3. MECHANICAL SEISMIC RESTRAINT ENGINEER'S INSPECTION/CONFORMANCE LETTER

ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

## IMPORTANT NOTES

- SEISMIC RESTRAINT IS REQUIRED FOR THIS PROJECT.
- ALL PILING, DIAPHRAGM AND EQUIPMENT IS TO BE RESTRAINED TO MEET CODE REQUIREMENTS. THE SEISMIC RESTRAINT MANUFACTURER SHALL PROVIDE DOCUMENTATION ON MAXIMUM RESTRAINT SPACING FOR VARIOUS RESTRAINT SIZES AND ANCHORAGE, AS WELL AS WORST CASE REACTION LOADS FOR EACH RESTRAINT AND/OR ANCHOR SIZE.
- SUBMIT SHOP DRAWINGS AND DESIGN CALCULATION TO CALCULATE REQUIREMENTS FOR SELECTING SEISMICALLY RATED VIBRATION ISOLATORS AND SEISMIC RESTRAINTS. CERTIFICATION DOCUMENTS FROM THE MANUFACTURER SHALL BE PROVIDED BY THE DESIGNER WITH AT LEAST ONE COPY OF EACH. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN OF SEISMIC RESTRAINTS. THE LOCAL JURISDICTION AND PROVIDE PERIODIC FIELD REVIEW AND FINAL CERTIFICATION UPON COMPLETION OF THE PROJECT. ALL COSTS AND FEES ASSOCIATED WITH THE ENGINEERING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

25 Marshall Road,  
Brentford, Ch. W8 9JF  
Tel: 0181 606 3460  
FAX: 0181 606 3461  
E-Mail: [Sales@consteel.co.uk](mailto:Sales@consteel.co.uk)  
Web: [www.consteel.co.uk](http://www.consteel.co.uk)

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## Consulting Engineers/Architects

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### MECHANICAL/ELECTRICAL/AQUATIC

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The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencing any of the work. The drawings show general arrangement of services. They are closely related to building construction will permit. Obtain approval for relocation of service from Consultant before commencing work.

The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the Consultant are the property of the consultant and must be returned at the completion of the project. All documents are not to be duplicated or copied without the consent of the Consultant.

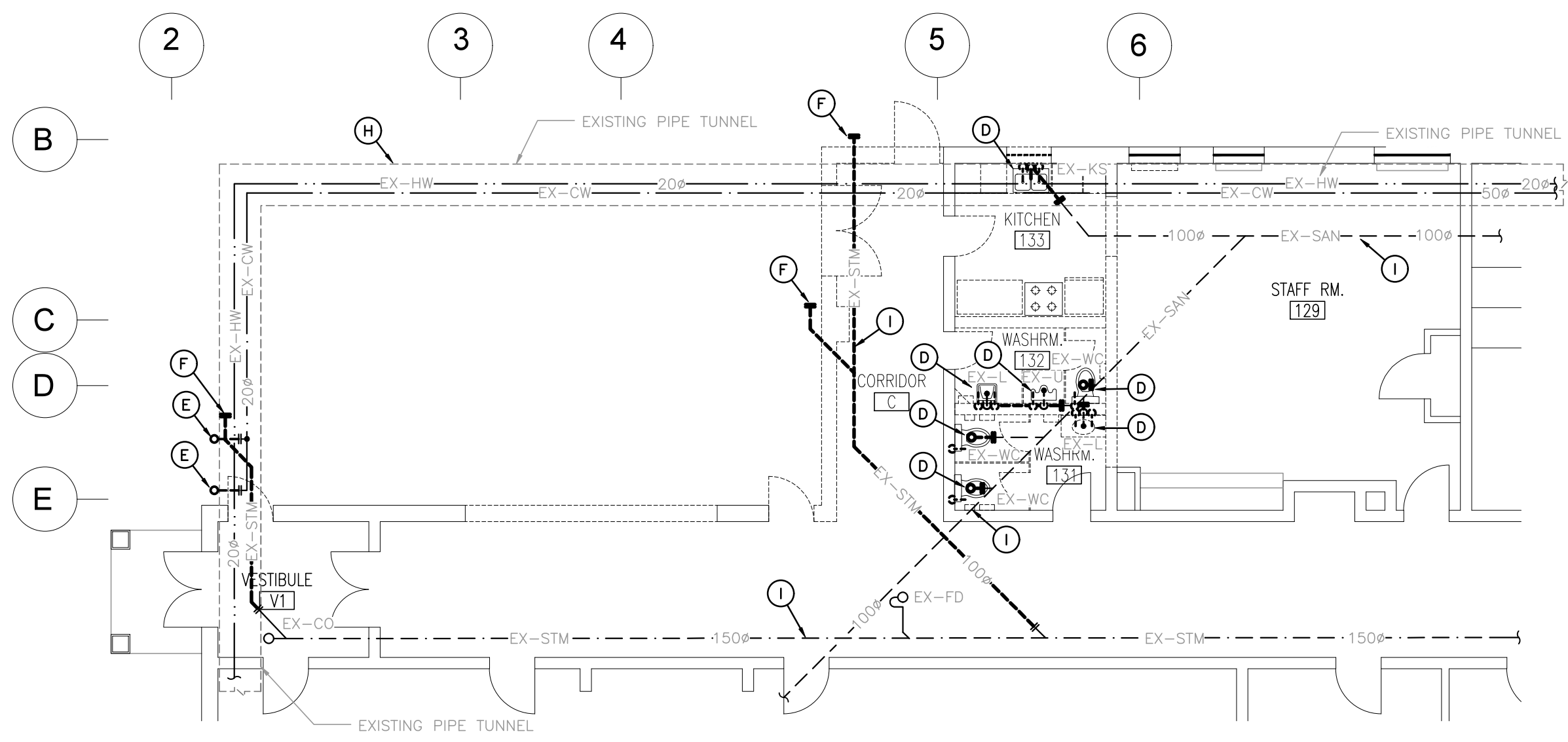
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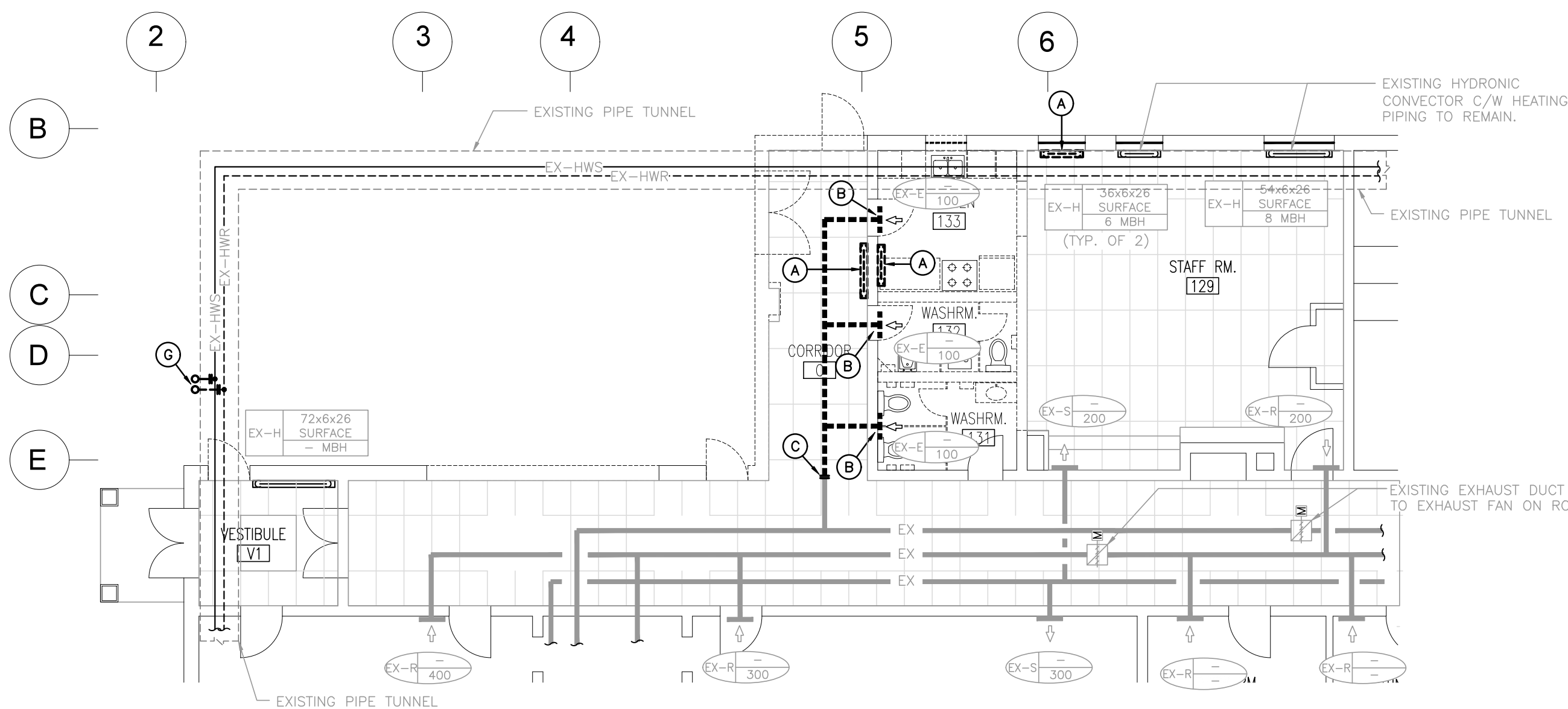
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for any change of section from the consultant before commencement of the work. The drawings do not indicate all offsets relating and accessories which may be required. Provide the rest of the work as required by the code. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale this drawing.

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GROUND FLOOR PART PLAN – PLUMBING DEMOLITION  
SCALE: 1:100



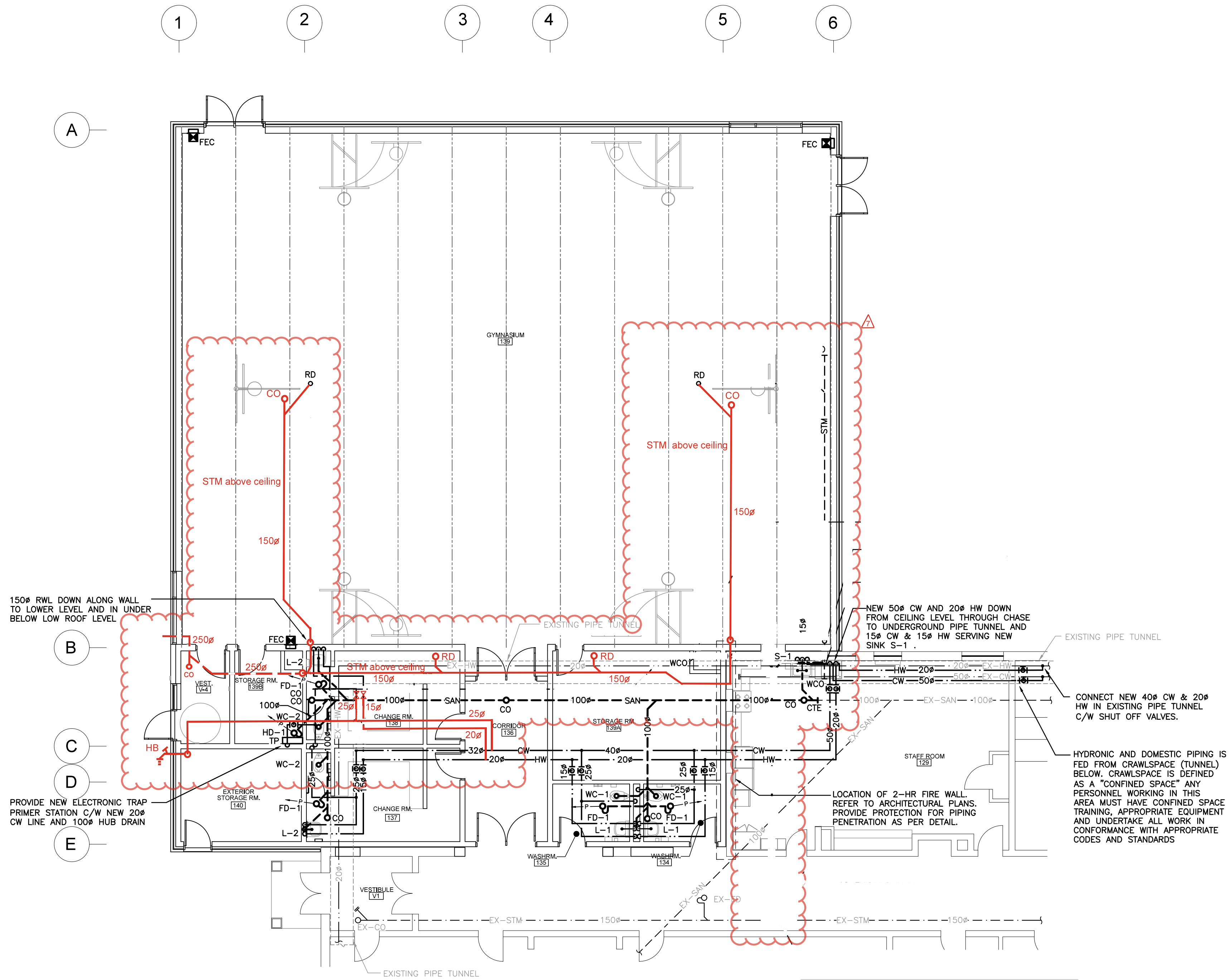
GROUND FLOOR PART PLAN – HVAC DEMOLITION  
SCALE: 1:100

#### GENERAL DEMOLITION NOTES

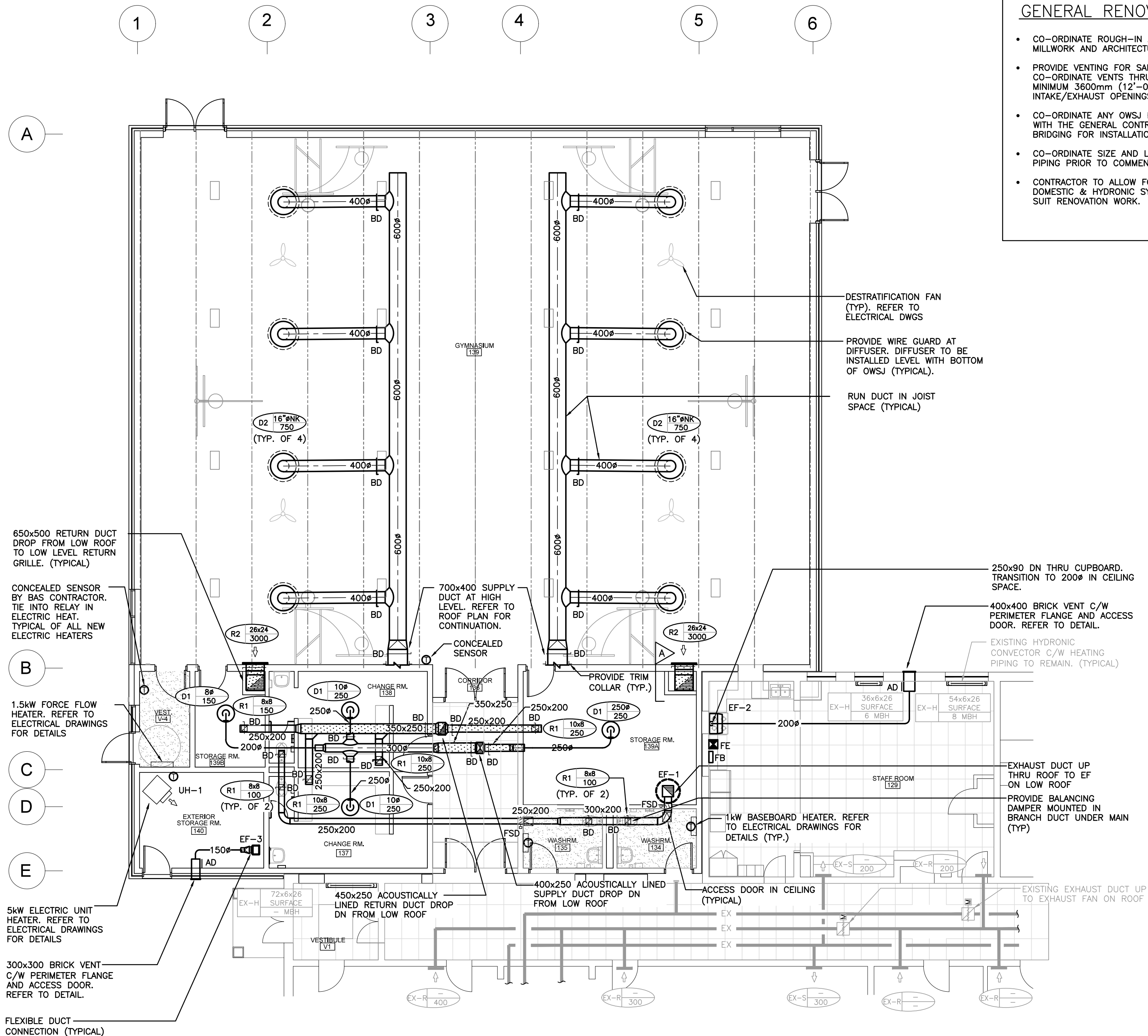
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING STRUCTURES THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.
- CONTRACTOR TO ALLOW FOR DRAINING AND DISPOSING OF ENTIRE SCHOOL DOMESTIC & HYDRONIC SYSTEMS (OR PIPE FREEZING AS REQUIRED) TO SUIT RENOVATION WORK.

#### SPECIFIC DEMOLITION NOTES

- REMOVE EXISTING HYDRONIC CONNECTOR C/W HEATING PIPING AND CAP HEATING PIPING AT MAIN BELOW FLOOR AND INT'L HOLES.
- REMOVE EXISTING EXHAUST GRILLE C/W BRANCH DUCT & CAP AT MAIN.
- REMOVE EXISTING EXHAUST DUCT BEYOND AND CAP AT MAIN.
- REMOVE EXISTING PLUMBING FIXTURE COMPLETE WITH ASSOCIATED WATER, DRAIN AND VENT PIPING. CAP EXISTING PIPING AT MAIN.
- REMOVE EXISTING ABANDONED WATER AND DRAIN PIPING FROM PREVIOUS PLUMBING FIXTURE. REMOVED. CAP PIPING WITH-IN TUNNEL.
- REMOVE EXISTING STORM PIPING AND CAP AT MAIN UNDERGROUND.
- REMOVE EXISTING ABANDONED HEATING PIPING FROM PREVIOUS HEATER. REMOVED. CAP PIPING WITH-IN TUNNEL.
- APPROXIMATE LOCATION OF EXISTING PIPING TUNNEL. CONTRACTOR TO CONFIRM EXACT SIZE, ROUTE, LOCATION & INVERT ON SITE. CONTRACTOR TO COORDINATE LOCATION WITH GC AND ENSURE TUNNEL IS PROTECTED DURING CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING STORM & SANITARY MAINS. CONTRACTOR TO CONFIRM EXACT SIZE, ROUTE, LOCATION & INVERT ON SITE (XRAY, SCAN AND CAMERA DRAW AS REQUIRED). TYPICAL ALL STORM AND SANITARY MAINS.



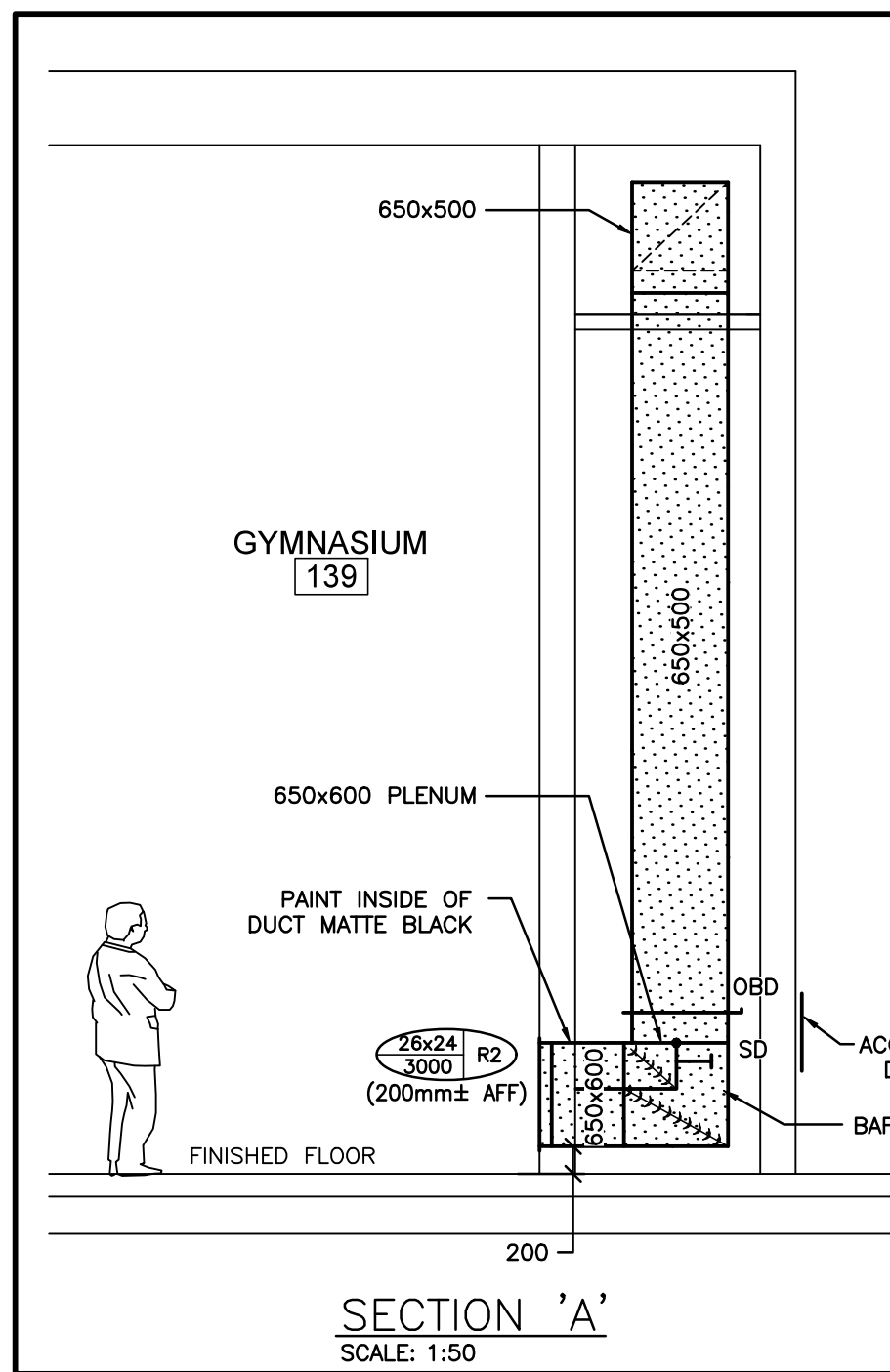
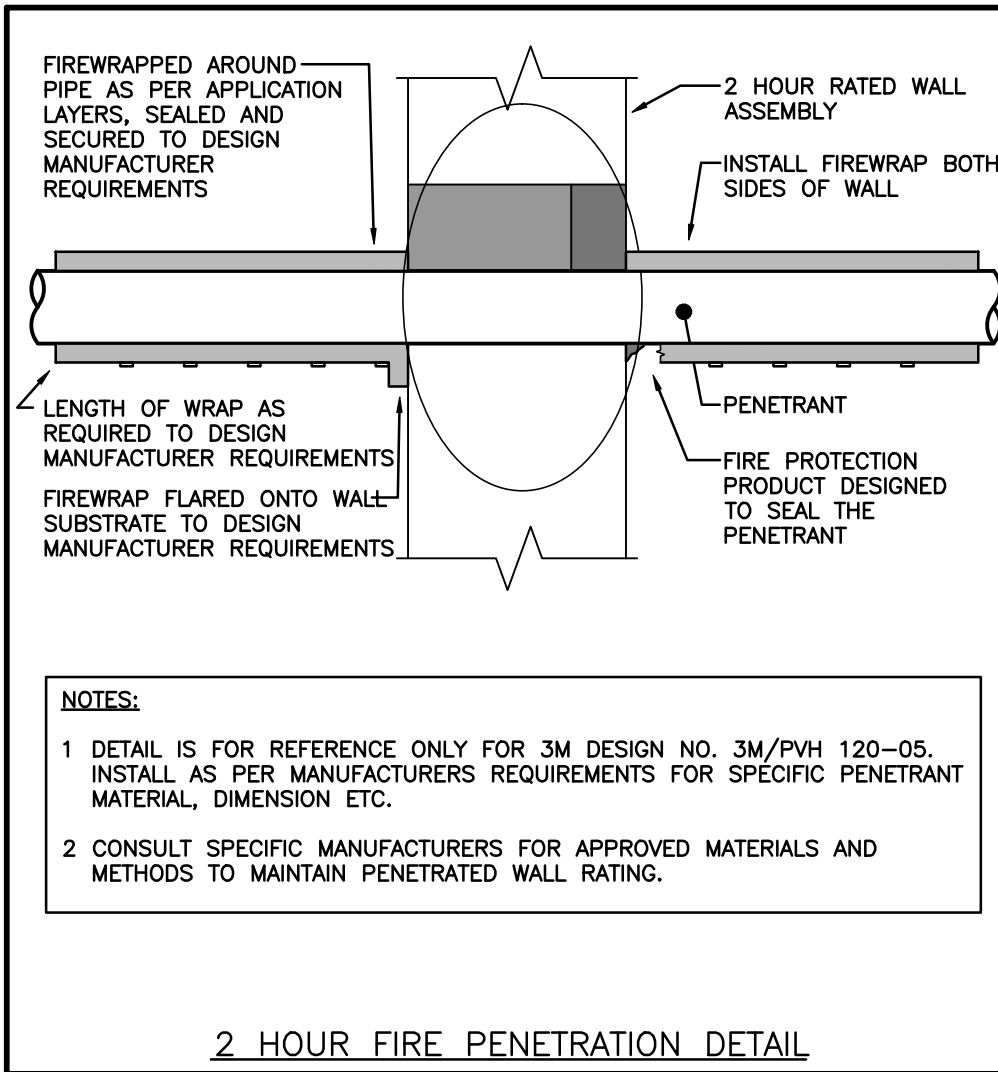
GROUND FLOOR PART PLAN – PLUMBING RENOVATION  
SCALE: 1:100



GROUND FLOOR PART PLAN – HVAC RENOVATION  
SCALE: 1:100

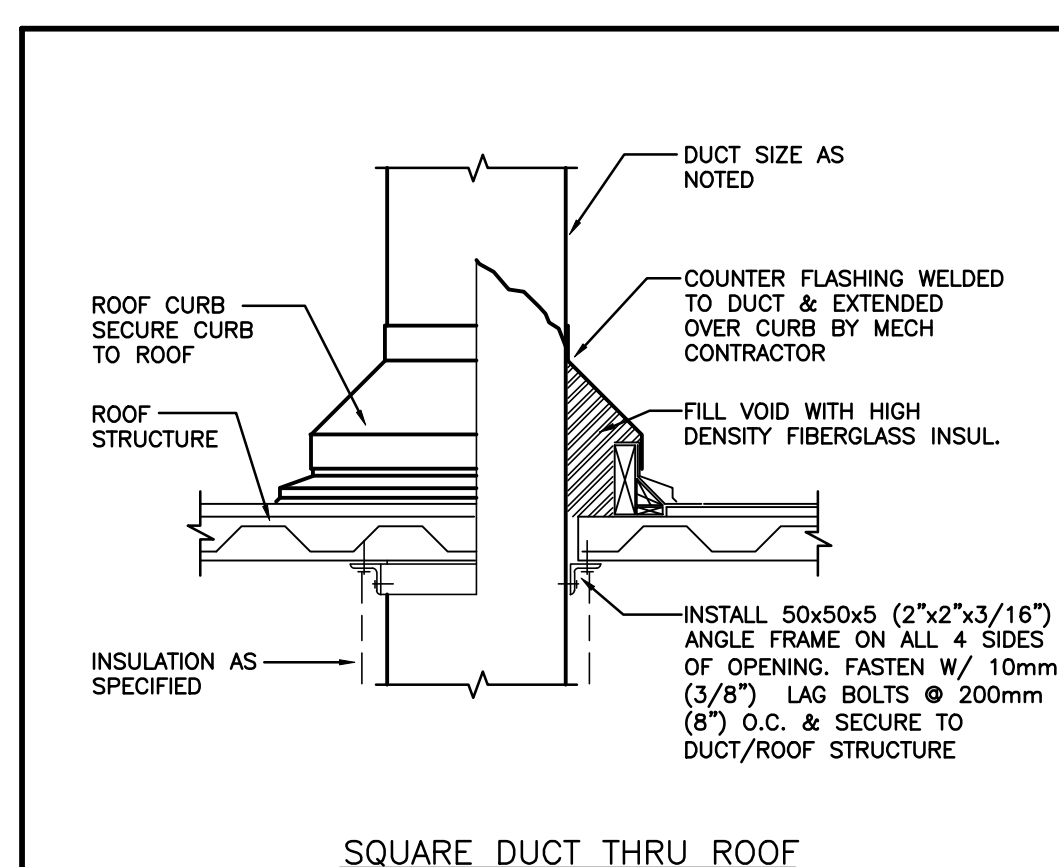
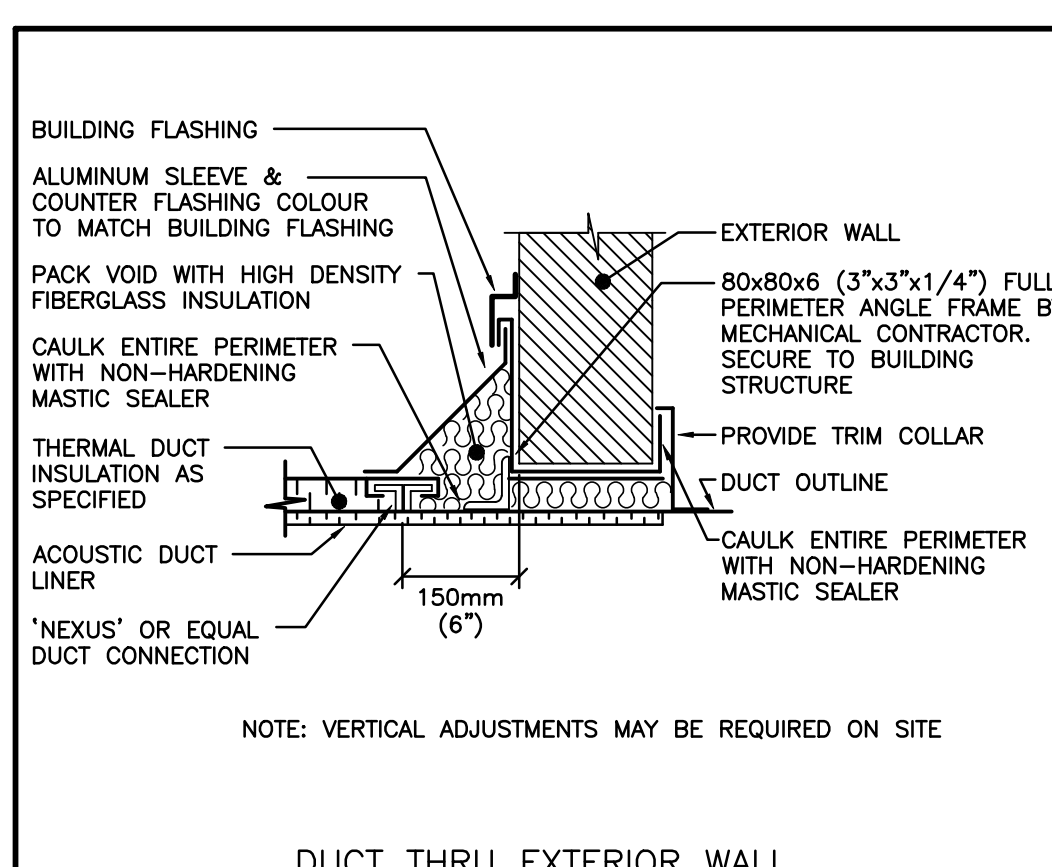
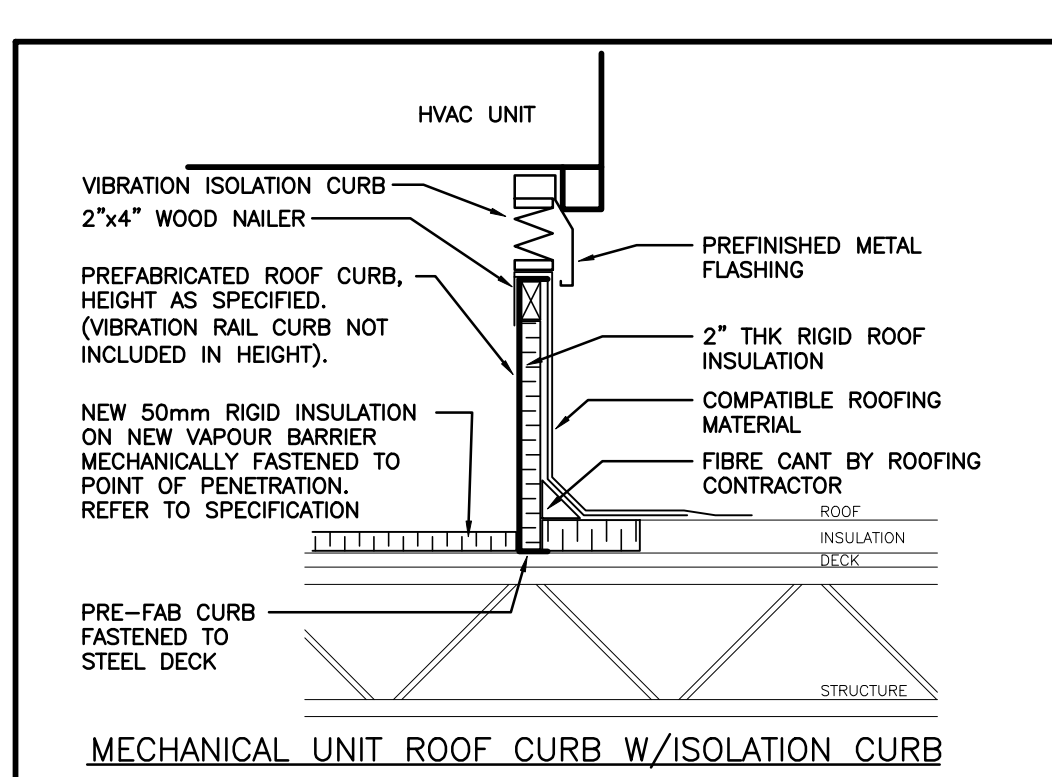
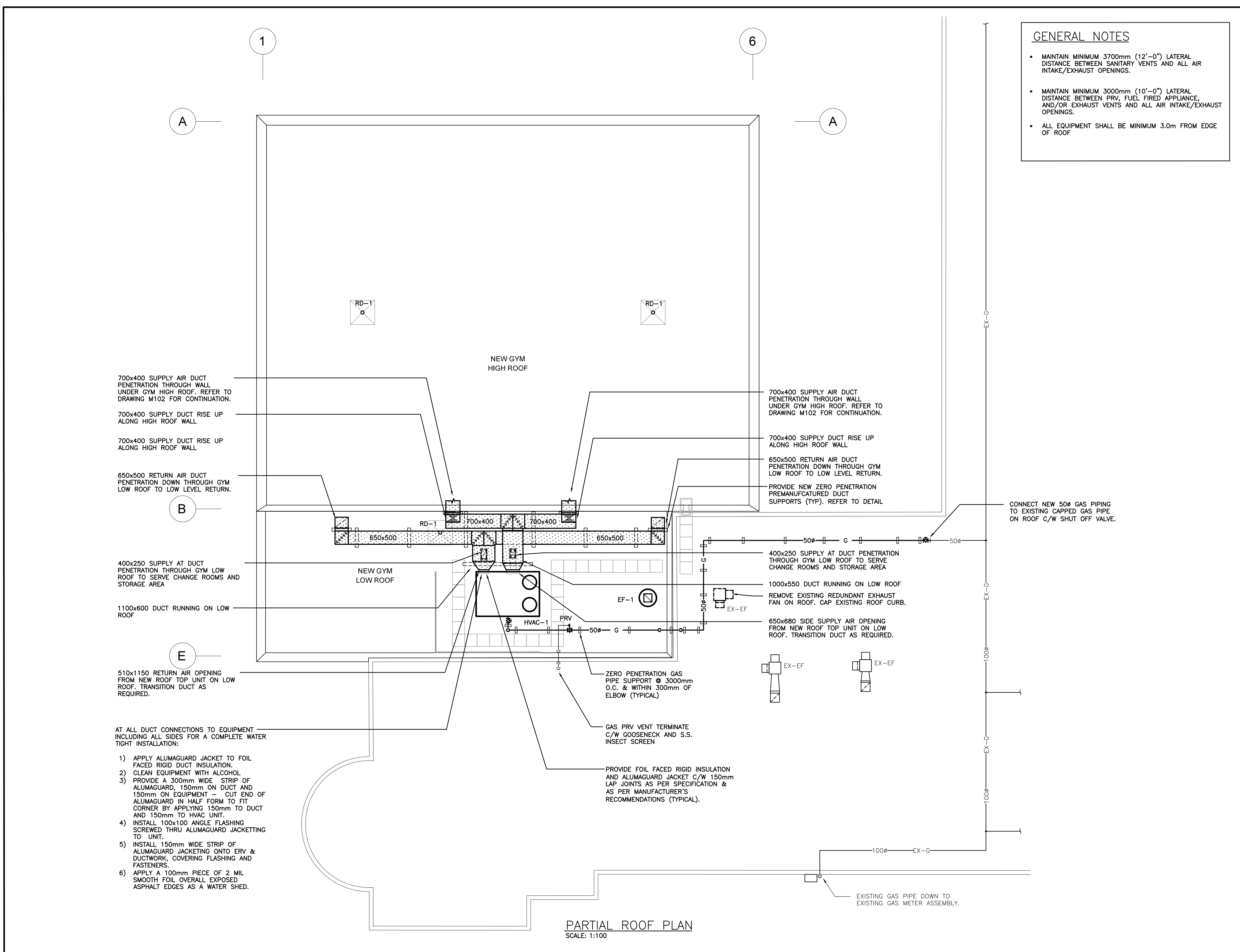
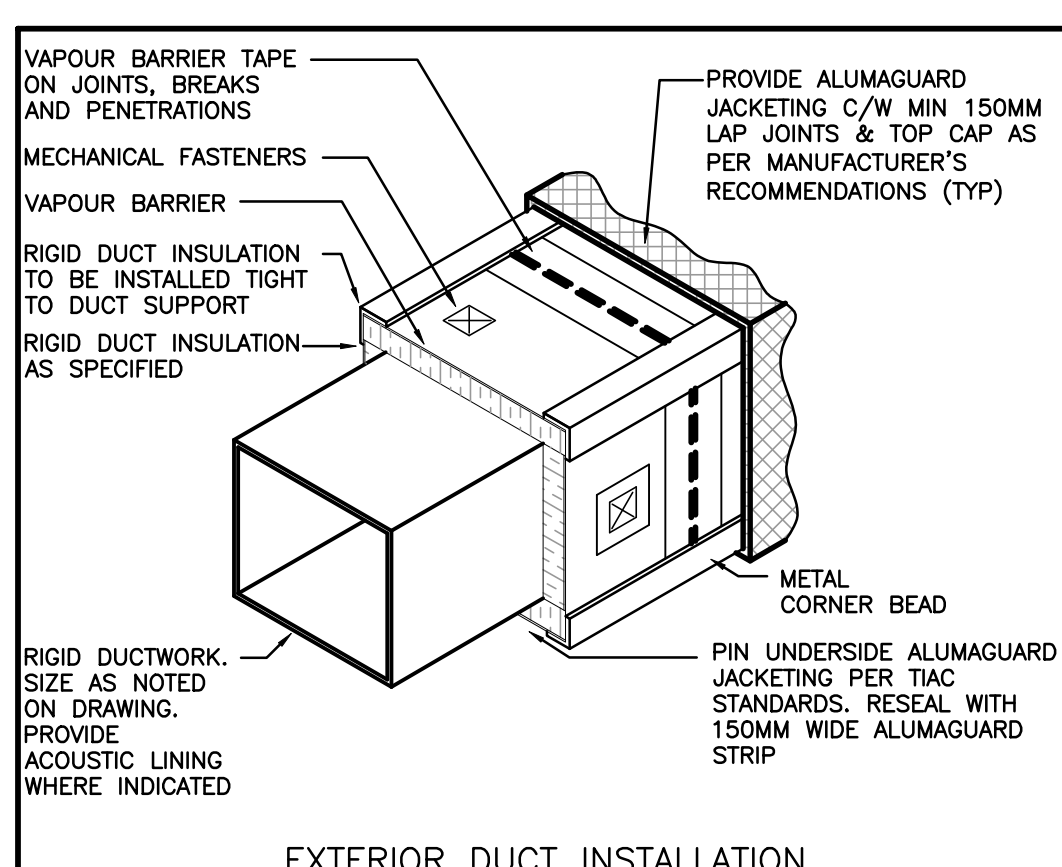
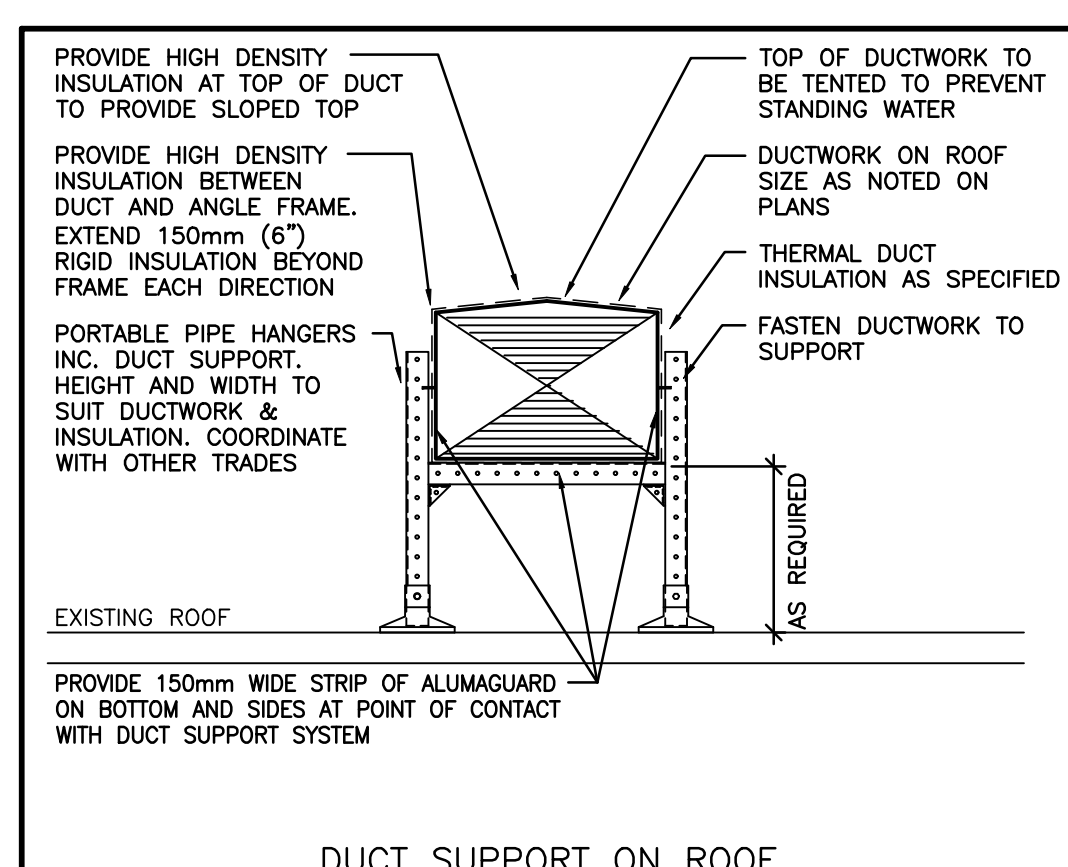
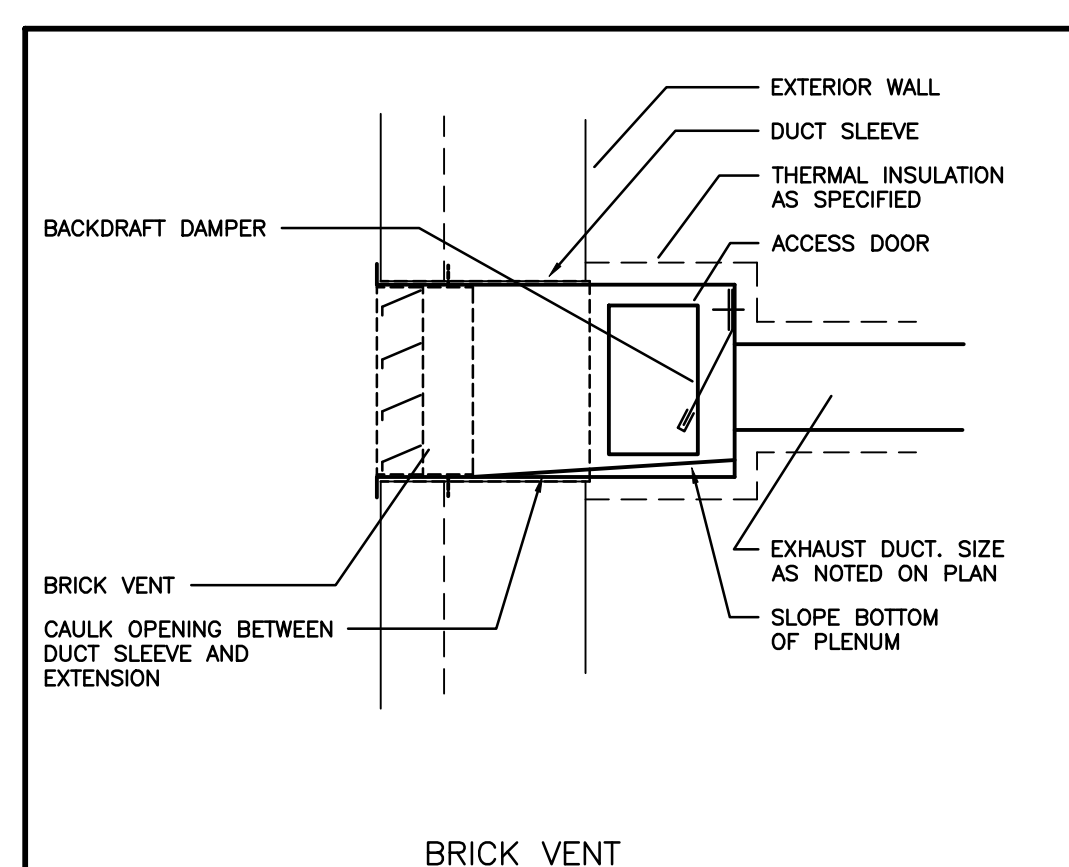
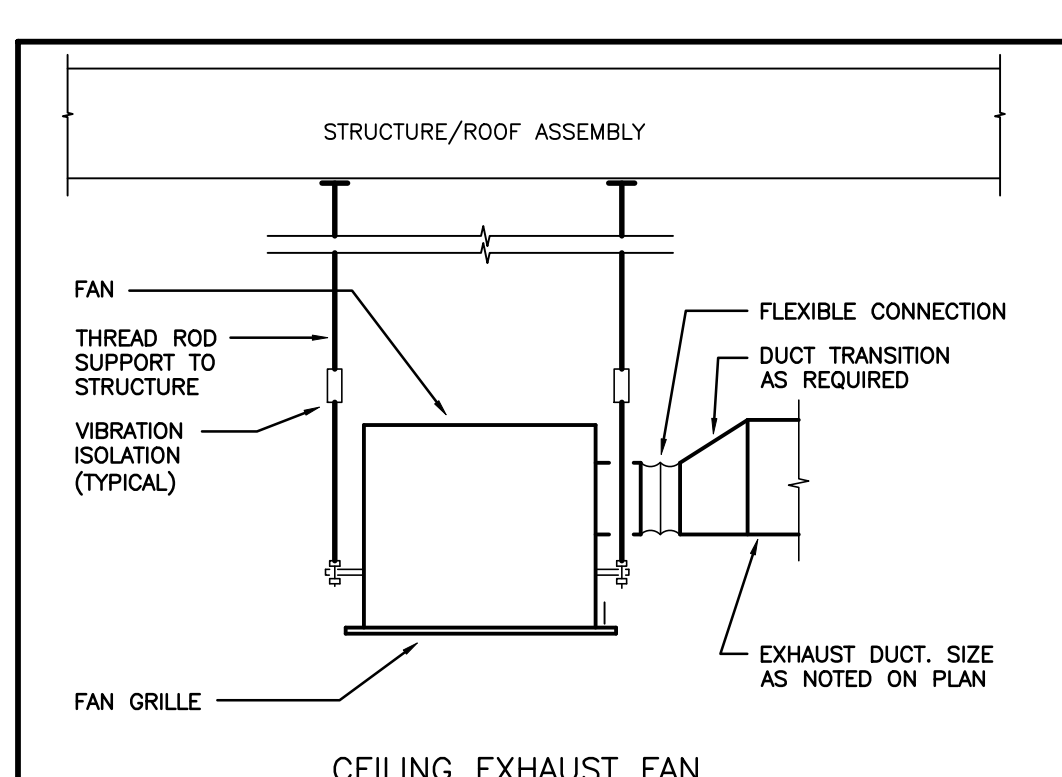
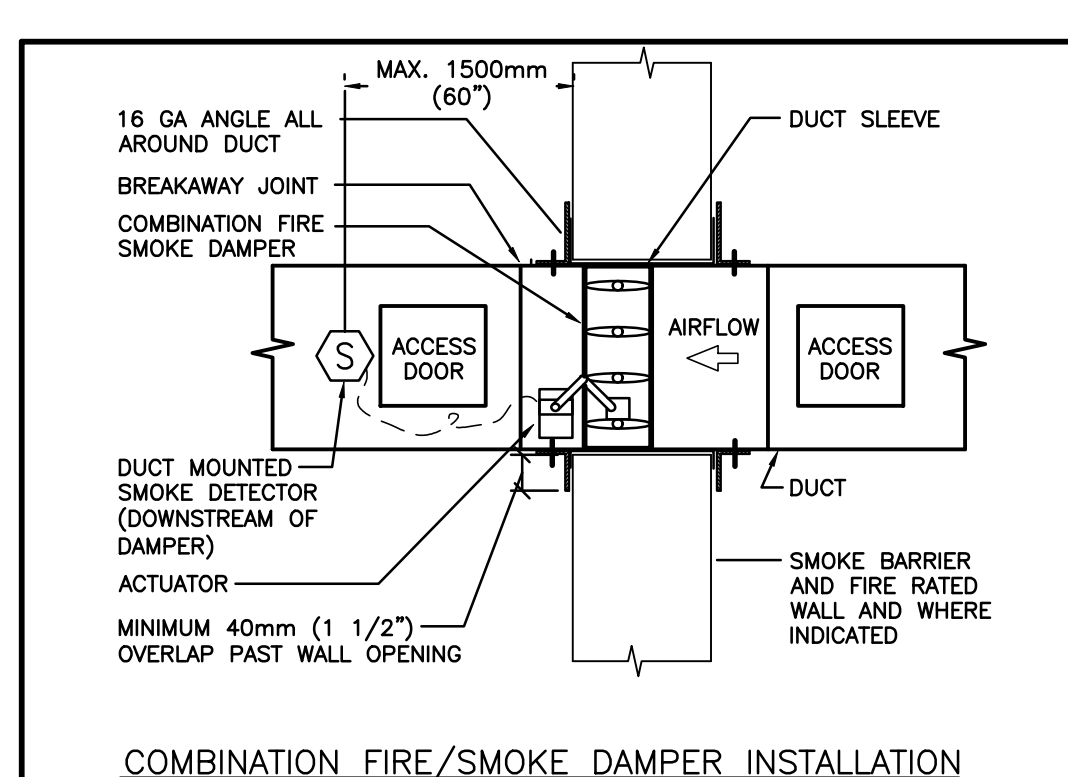
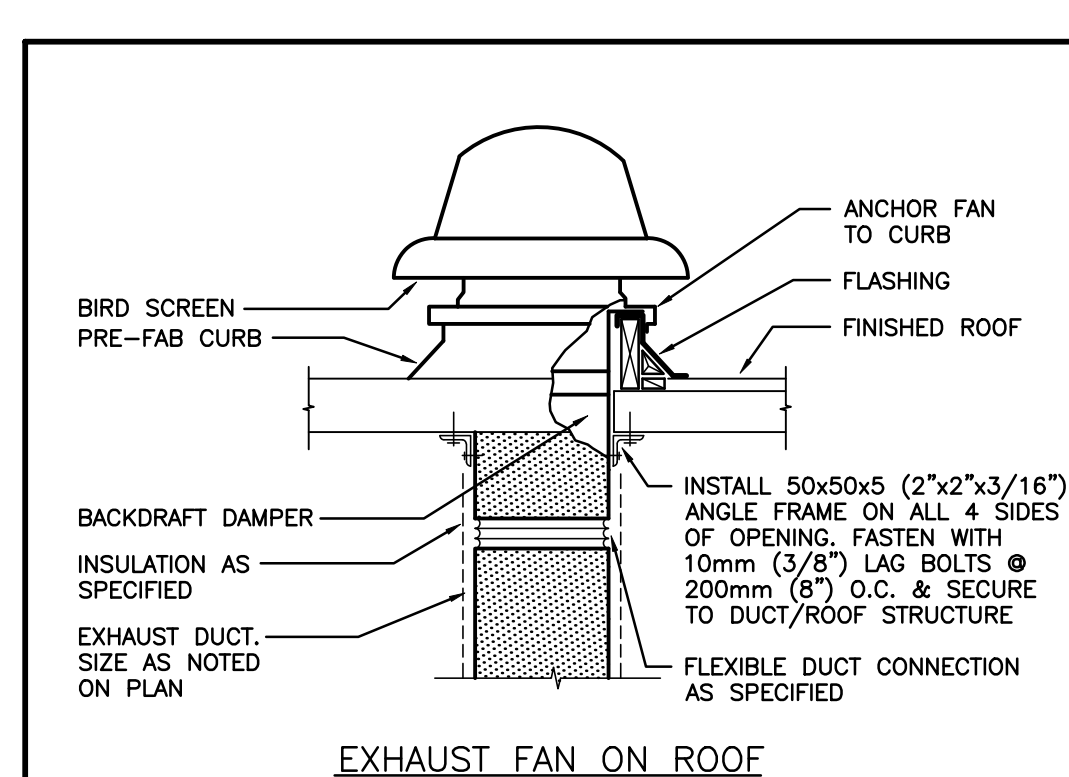
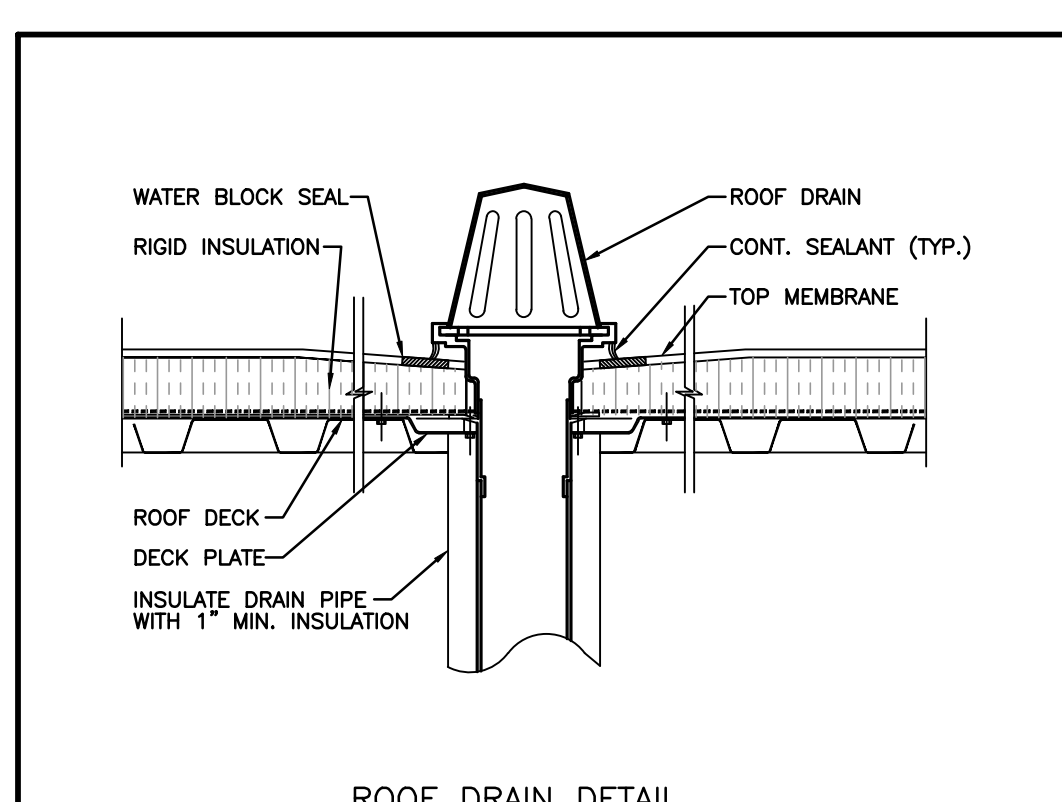
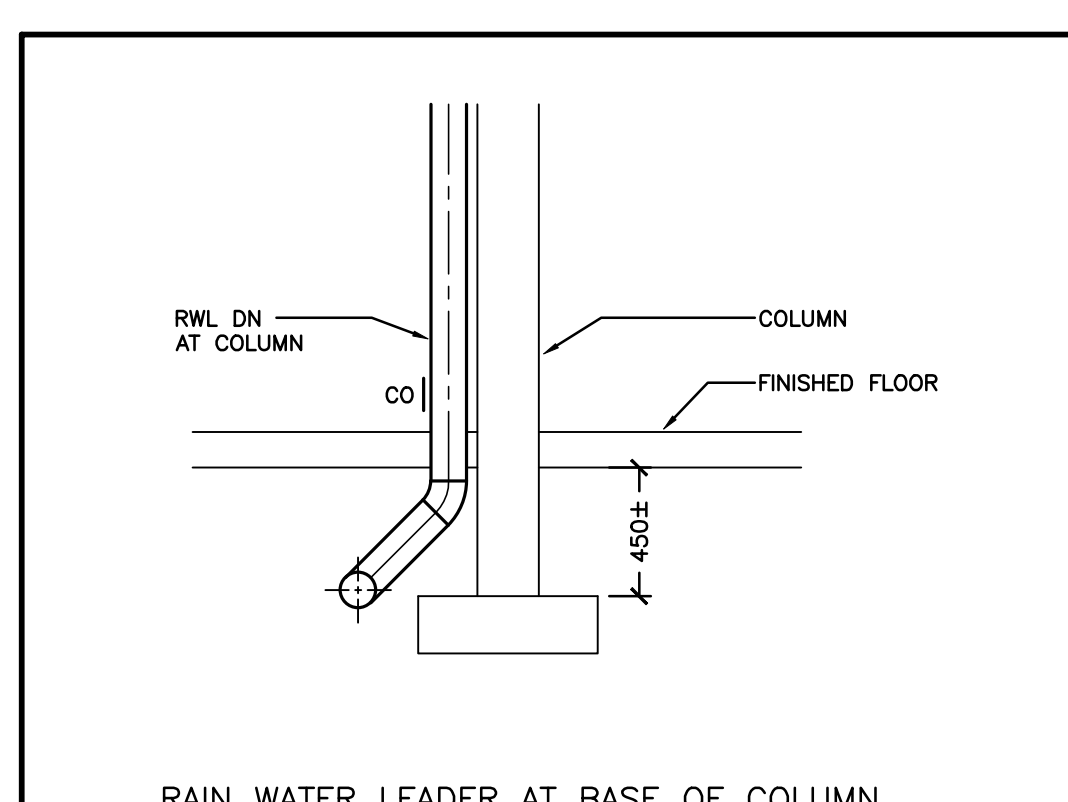
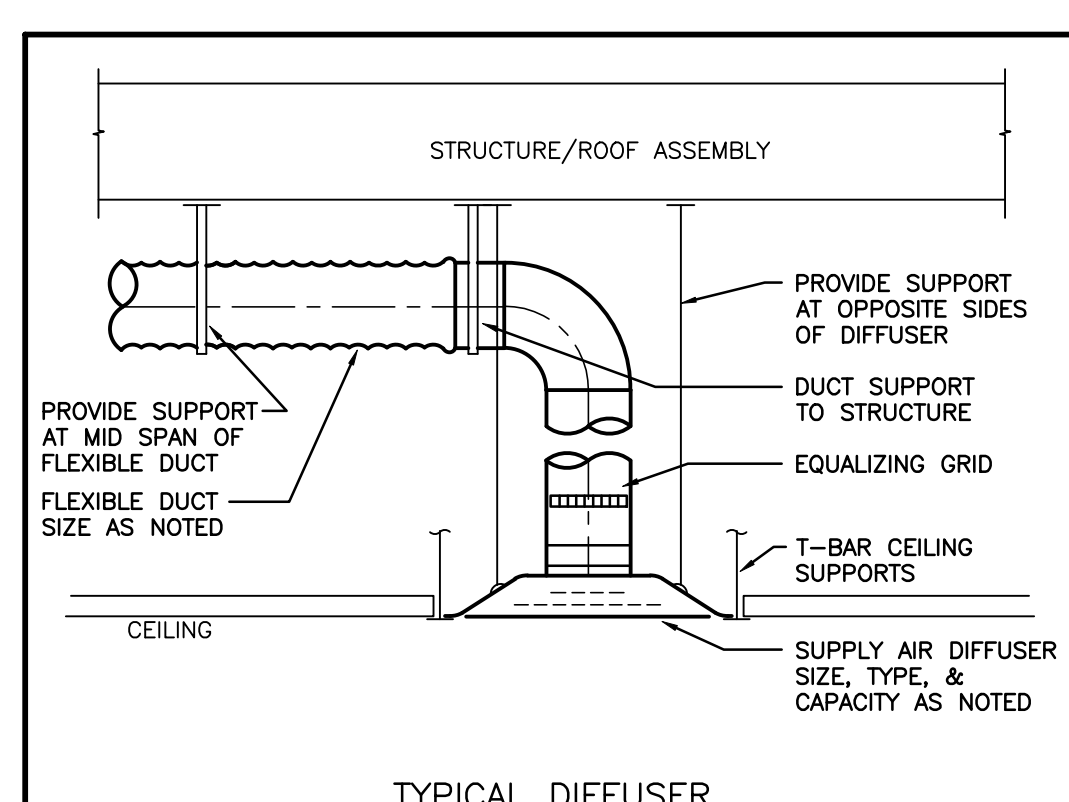
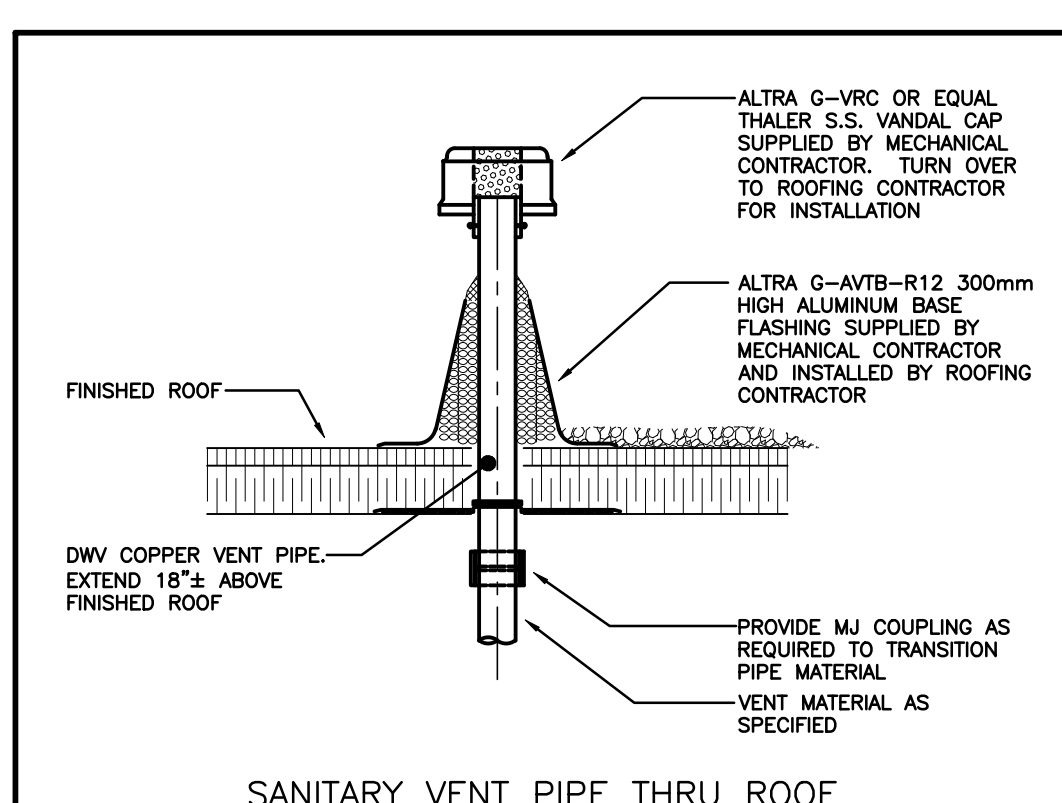
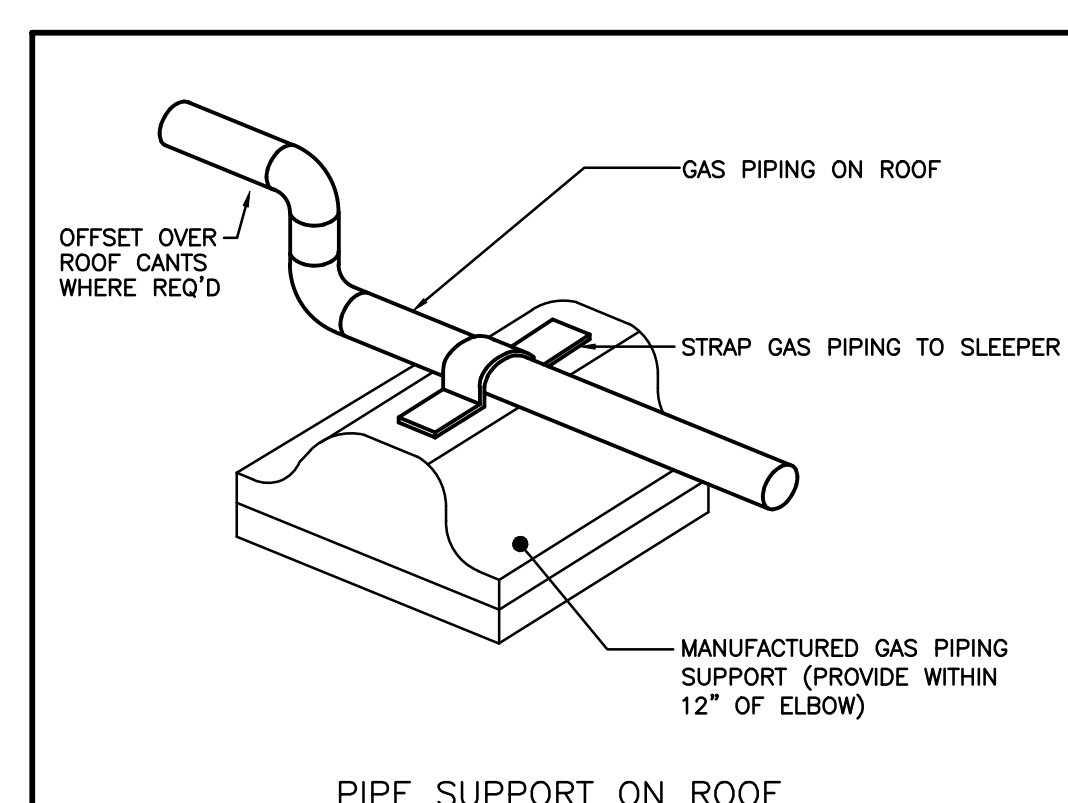
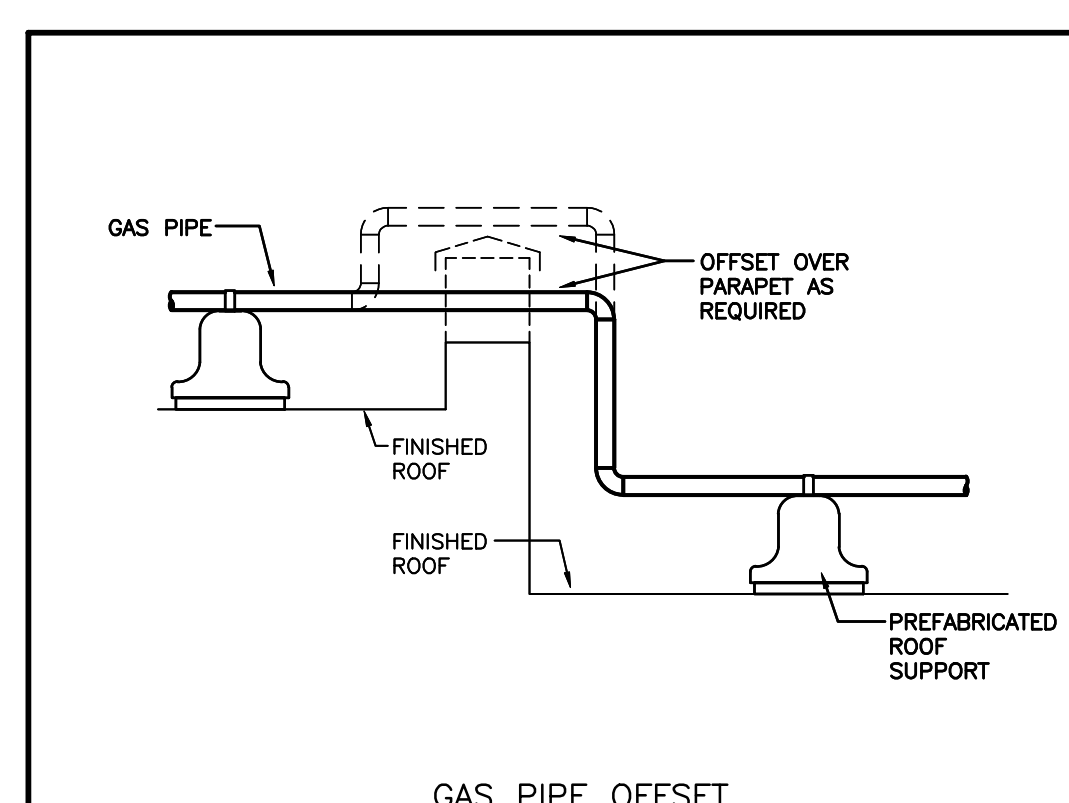
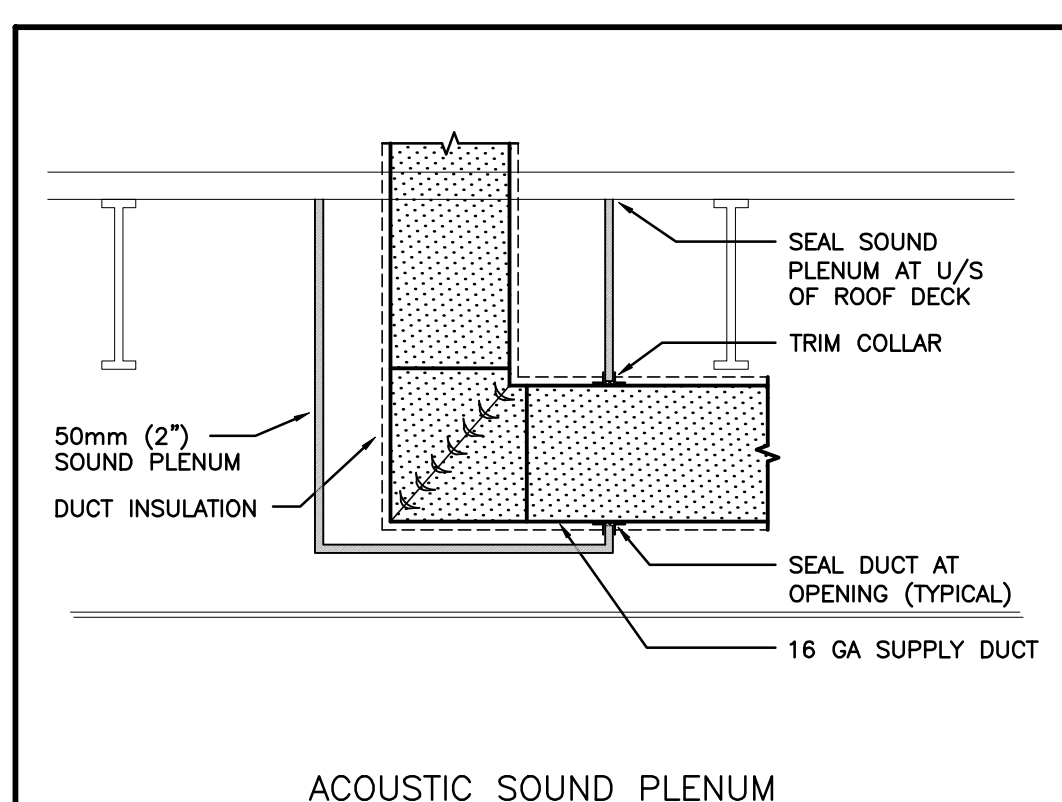
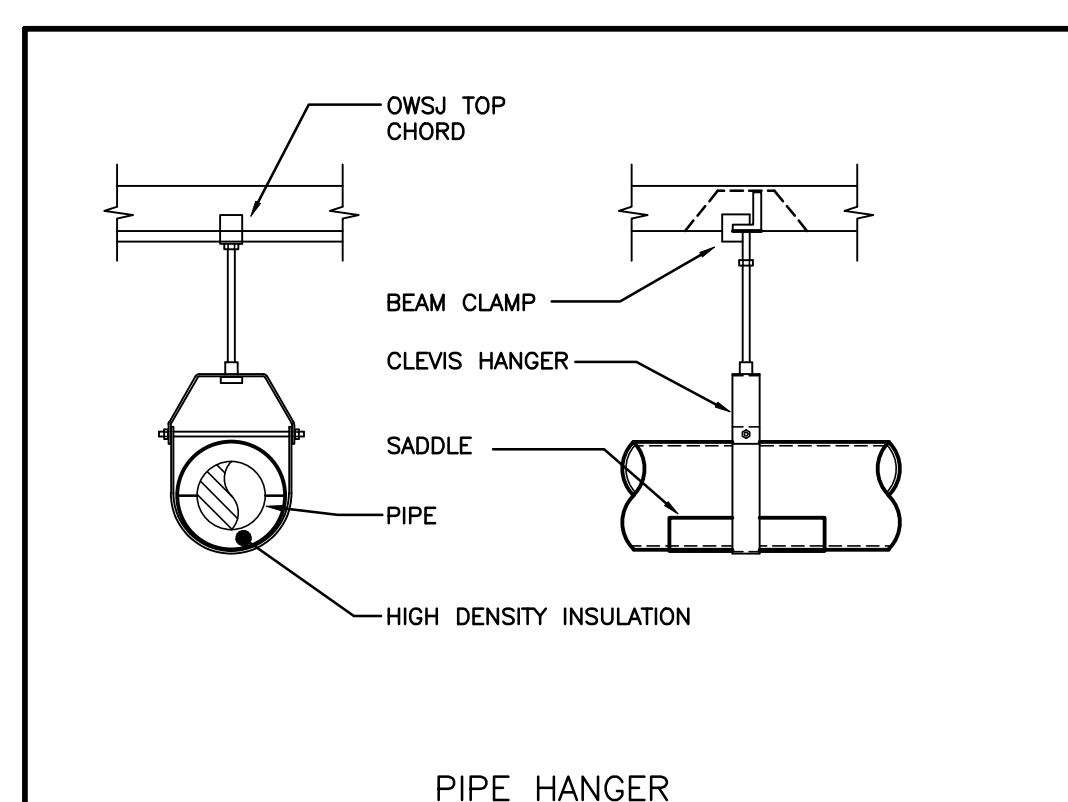
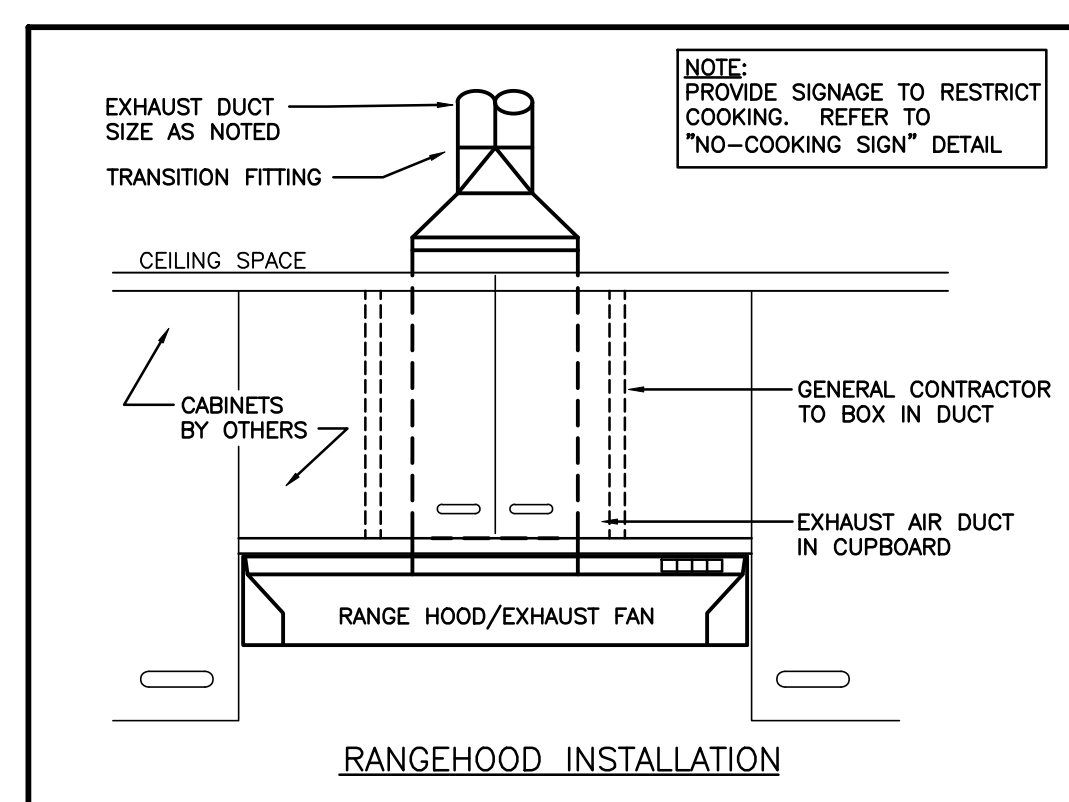
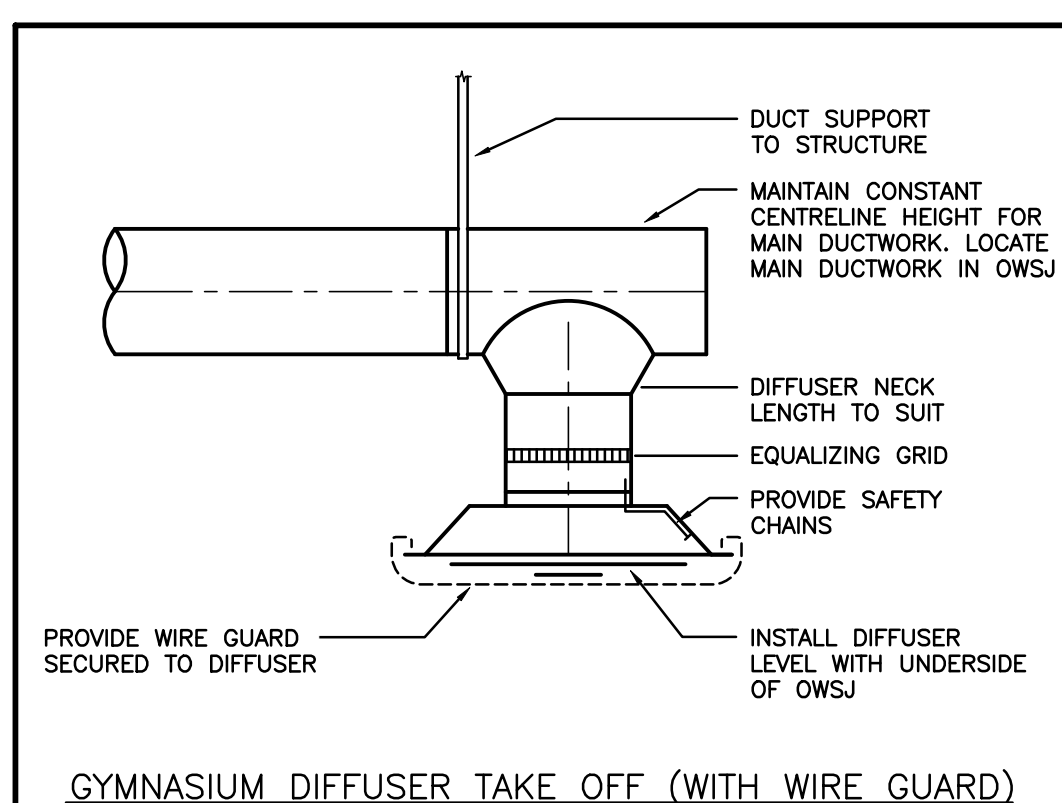
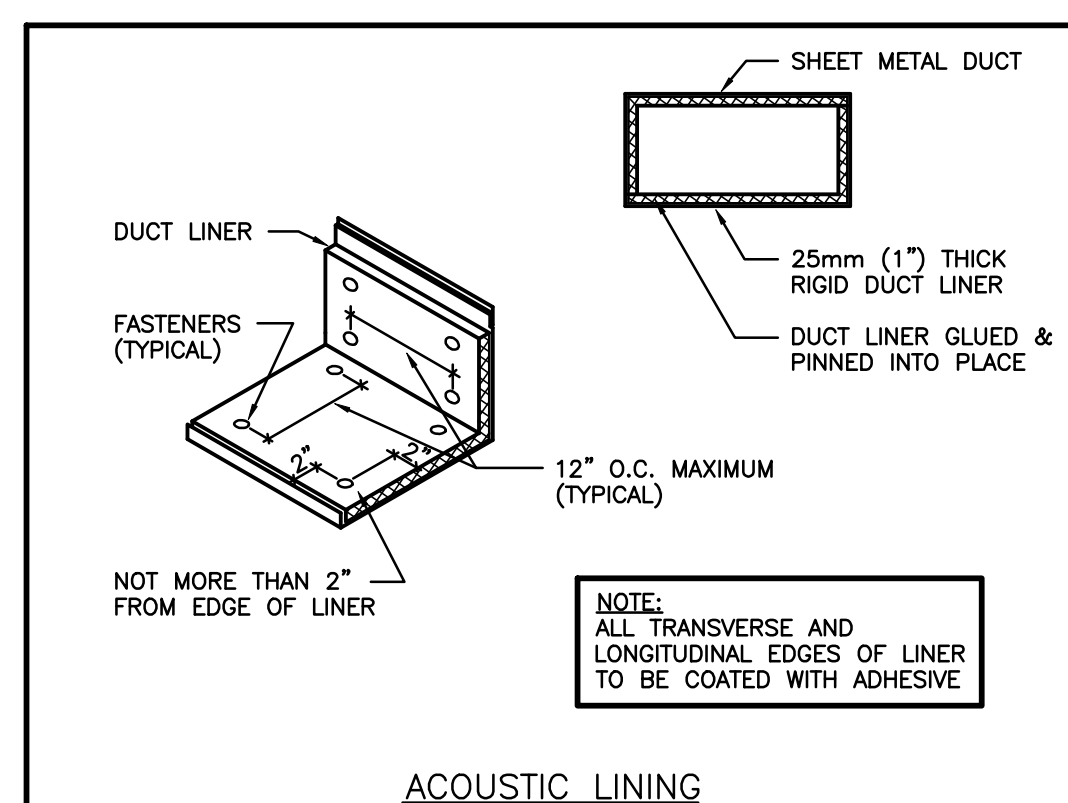
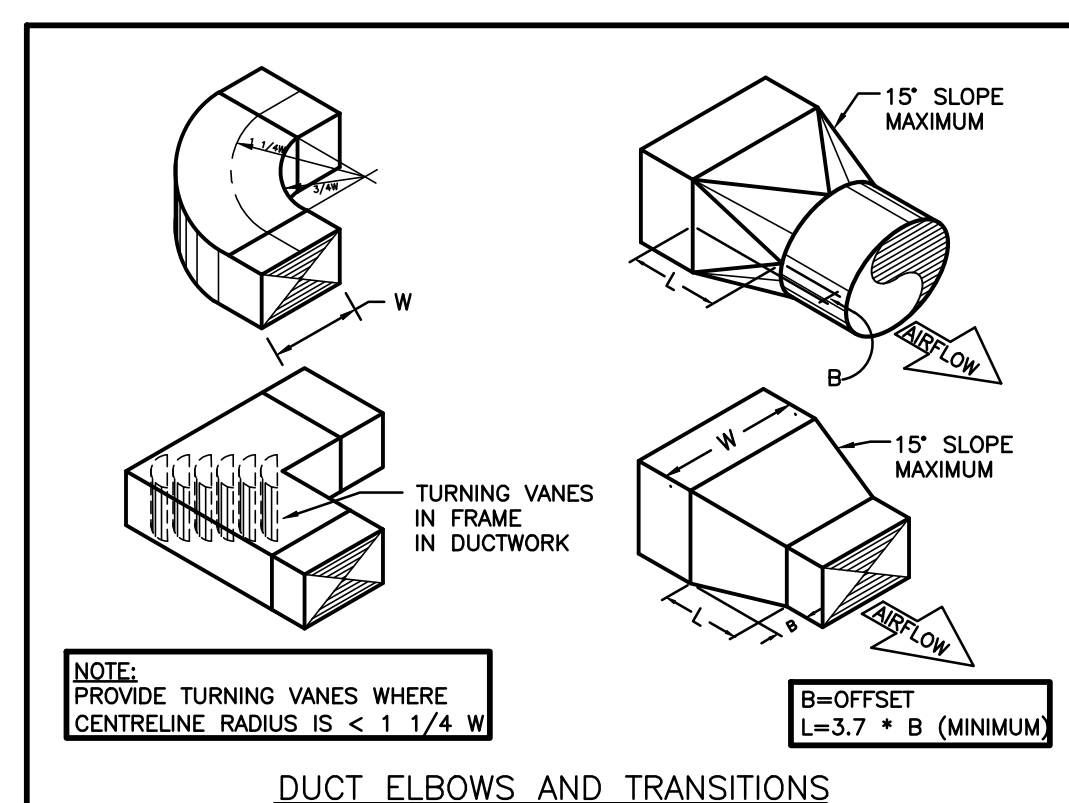
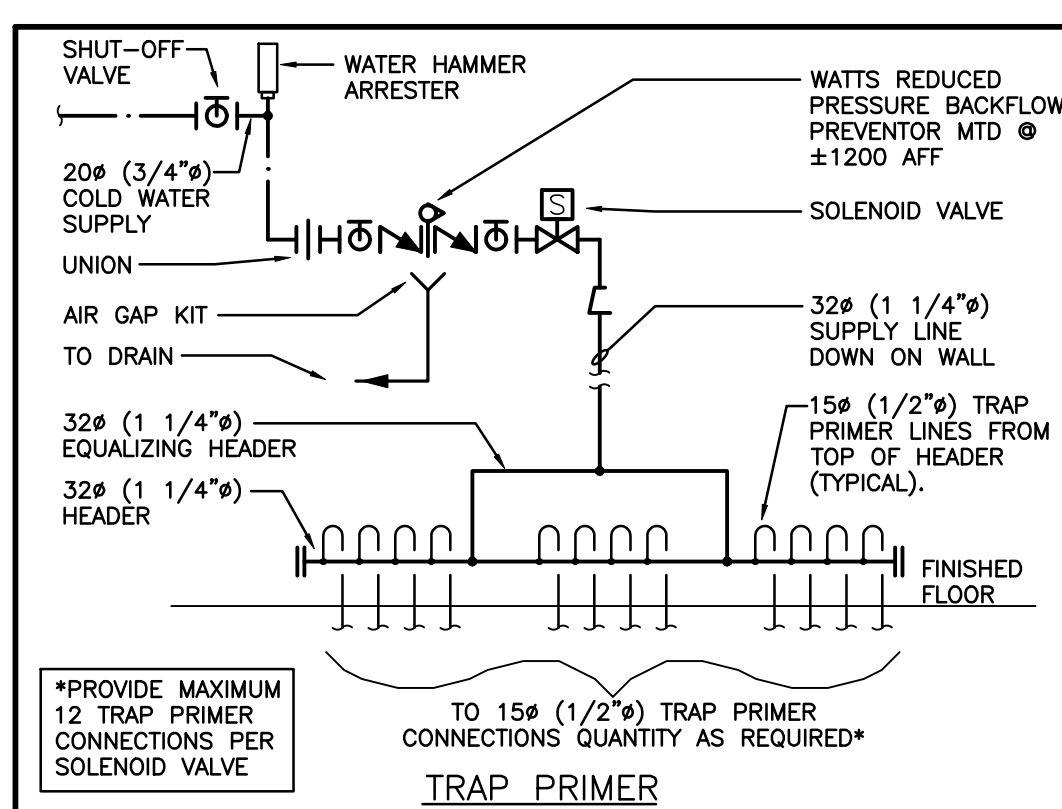
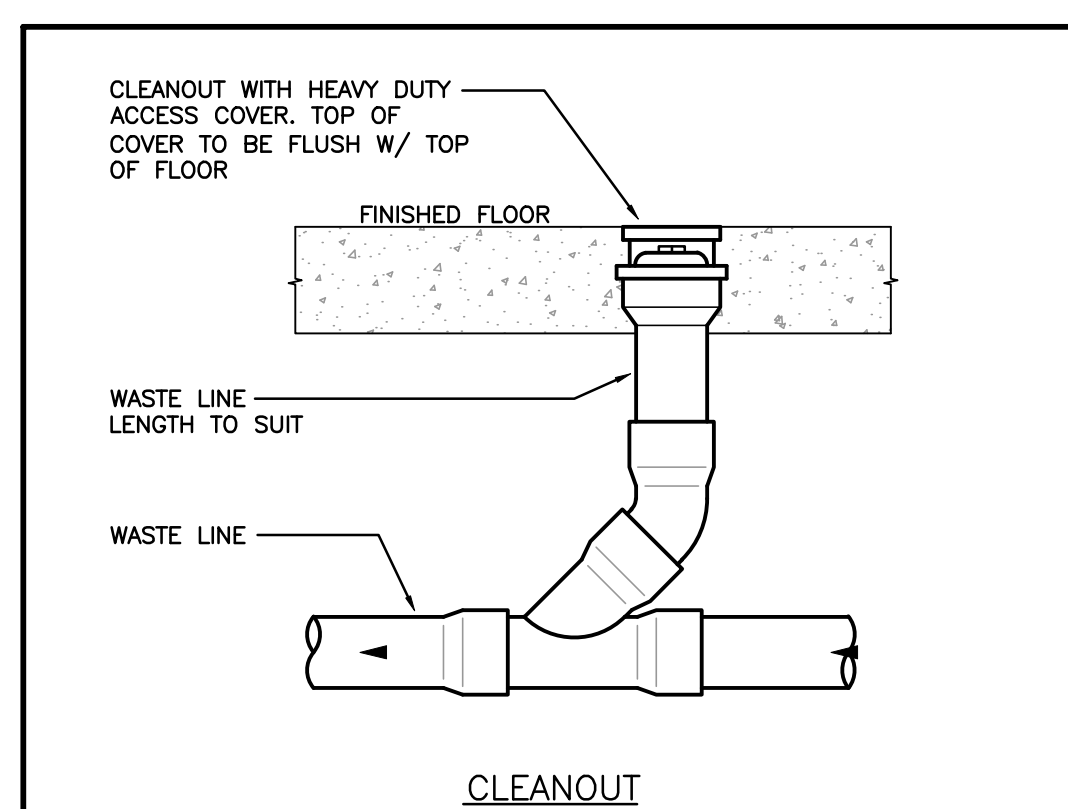
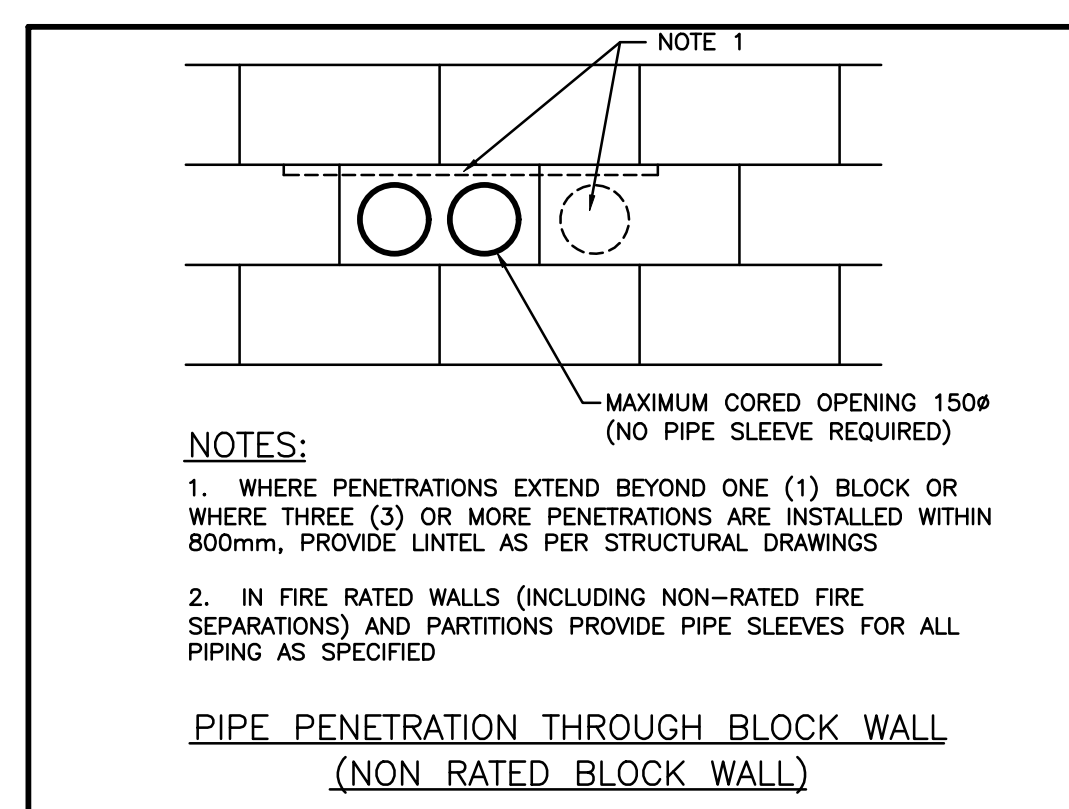
#### GENERAL RENOVATION NOTES

- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- PROVIDE VENTING FOR SANITARY FIXTURES TO OBC REQUIREMENTS. CO-ORDINATE VENTS THRU ROOF WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3600mm (12'-0") BETWEEN SANITARY VENT AND ALL AIR INTAKE/EXHAUST OPENINGS.
- CO-ORDINATE ANY OWSS BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- CO-ORDINATE SIZE AND LOCATION OF EXISTING SANITARY AND DOMESTIC PIPING PRIOR TO COMMENCING WORK.
- CONTRACTOR TO ALLOW FOR DRAINING AND DISPOSING OF ENTIRE SCHOOL DOMESTIC & HYDRONIC SYSTEMS (OR PIPE FREEZING AS REQUIRED) TO SUIT RENOVATION WORK.



No.	Revisions	Date
1	ISSUED FOR SPA SUBMISSION	2024.02.27
2	ISSUED FOR SPA REVIEW SET	2024.02.27
3	ISSUED FOR PERMIT	2024.04.19
4	ISSUED FOR TENDER	2024.05.01
5	ISSUED FOR PERMIT RESPONSES	2024.06.24
6	ISSUED FOR CONSTRUCTION	2024.09.17
7	AS BUILT DRAWING	2025.07.21





### GENERAL NOTES

- MAINTAIN MINIMUM 3700mm (12'-0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF