



EQUIPMENT SCHEDULE				
CATEGORY	ITEM NO.	DESCRIPTION	QTY.	NOTES
HVAC	XRTU-1	EXISTING ROOF TOP UNIT	1	EXISTING 5 TON ROOF TOP UNIT CONTRACTOR TO CONFIRM LOCATION AND CAPACITY ON SITE
	S-1 200 8"	S-1 DIFFUSER	6	EH PRICE RCD ROUND DIFFUSER, DUCT MOUNT
	S-2 300 24"x24"	S-2 DIFFUSER	2	EH PRICE SCD SQUARE DIFFUSER, T-BAR LAY-IN
	S-3 150 8"	S-2 DIFFUSER	2	EH PRICE ROUND DIFFUSER, SURFACE MOUNT
	EF-1 EF-2	CEILING WASHROOM EXHAUST FAN	2	6" ROOM EXHAUST DUCT TO CONNECT TO WALL CAP OR ROOF CAP CW SCREEN VOLUME AS SHOWN ON PLAN

1) EXACT LOCATION OF ALL EXISTING SERVICES SHALL BE VERIFIED ON SITE BEFORE WORK STARTS.

2) WHERE DRYWALL CEILINGS ARE BEING INSTALLED, CEILING ACCESS HATCHES ARE REQUIRED TO BALANCE DAMPERS AND FOR ALL EXISTING EQUIPMENTS AND NEEDING REGULAR SERVICE ACCESS. TYPICAL.

① KEYNOTES
① ACOUSTIC LINED 18"x12" SUPPLY AND ACOUSTIC LINED 16"x16" RETURN DUCT FROM EXISTING ROOF TOP UNIT (XRTU-1)

MECHANICAL SPECIFICATIONS

A. General

1. **Intent**
It is the intention of these specifications and drawings to call for finished works, tested and ready for operation. Minor details not usually shown or specified but necessary for proper installation and operation shall be included in the works, the same as if herein specified or shown.

2. **Responsibility**
a) Visit the site during the tendering period to verify all measurements and examine all local and existing conditions on which the words are dependent.
b) No consideration will be granted for failure to visit the site, or for any misunderstanding of equipments and material to be furnished or works to be done.
c) The architect, should he believe any equipments or materials to be inadequate or unsatisfactory in width of laws, ordinances, rules, or regulations of authorities having jurisdiction, or should any necessary items or works being omitted.
d) Check drawings of all trades to verify space and headroom limitations for works to be installed. Make changes to facilitate a more satisfactory installation. Deviations from drawings, altering the design intent or involving additional expense, shall not be made without the architect's approval.
e) Where installed work interferes with or modifies architectural design, make necessary changes as directed by the architect, at no extra cost to the owner.
f) Place no unusual erection loads on the building structure without the architect's approval.
g) Ensure that equipments do not transmit excess noise and/or vibration to other parts of the building. Any noise or vibration that, in the opinion of the architect, is objectionable shall be corrected in an approved manner of no additional expense to the owner.

3. **Codes and Permits**
All works to be performed in accordance with the latest B.C. Building Code, B.C. Plumbing Code, Gas Code and other provincial regulations and local by-laws. Submit plans and specifications for approval to authorities having jurisdiction. Obtain permits and pay all necessary fees.

4. **C.S.A. and C.G.A. Approval**
All electrical motors, equipments, and components shall bear a C.S.A. approval label. All gas fired equipments shall bear a C.G.A. approval label.

5. **Tests**
All piping shall be tested as required, including plumbing, soil, waste, vent, and drainage piping.

6. **Insulation**
All domestic cold, hot, cast iron and copper rainwater leaders shall be insulated with 1" fibreglas pipe insulation.

7. **Cutting, Patching & Waterproofing**
a) Arrange with general contractor and be responsible for all cutting and patching required.
b) Opening through structural members must be approved by the Architect.
c) Counterflashing and caulking of openings and all flashing of pipes shall be furnished and installed by the individual trade.
d) The area of any opening shall not be larger than is absolutely necessary.

8. **Heating, Ventilating, & Air Conditioning Notes**

1. **Building Heating and Air Conditioning**
The commercial unit shall be heated by existing roof top unit.

2. **Ventilation**
Exhaust fans provided for all the washrooms where required, if applicable.

3. **Controls**
All line voltage control wirings by electrical contractor, and low voltage control wirings, relays, contactors, flow switches, etc. by mechanical contractor.

4. **Ductworks**
a) Ductworks shall be constructed of galvanized sheet metal in accordance with SMACNA standards for low pressure ductwork.
b) Round ductworks shall be galvanized spiral duct with back seam.
c) Flexible ductworks shall be Flexmaster type consisting of 3 layers of fibreglas cloth, each coated with neoprene supported by a spring steel wire helix.
d) Install and make all necessary connections required for the complete supply, return, and exhaust air system indicated on the drawings, including all ductworks, grille collars, connections, fasteners, hangers, and other items required. Seal all joints to provide an air tight system.

5. **Balancing Dampers**
Single blade with quadrant operator for ducts 10" deep or less. Squeeze type dampers with quadrant operators for ducts over 10" in depth.

6. **Fire Dampers**
Fire dampers shall be installed where ducts penetrate fire rated walls and ceilings. Dampers shall have minimum 1½ hr. rating.

7. **Flexible Connection**
Flexible connections shall be Durolon as manufactured by Duro Dyna.

8. **Balancing**
a) Balance air system to within 10% of design CFM noted.
b) Balancing shall be performed by an independent agency specializing in this type of work.

9. **Grilles, Registers, and Diffusers**
Provide all grilles, registers, and diffusers as indicated on drawings.

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NO	DATE	NOTES	INI
1	11/16/2023	ISSUED FOR CLIENT REVIEW	ET
2	02/02/2024	REVISION	LC
3	02/07/2024	BACKGROUND CHANGE	LC

PROJECT:
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