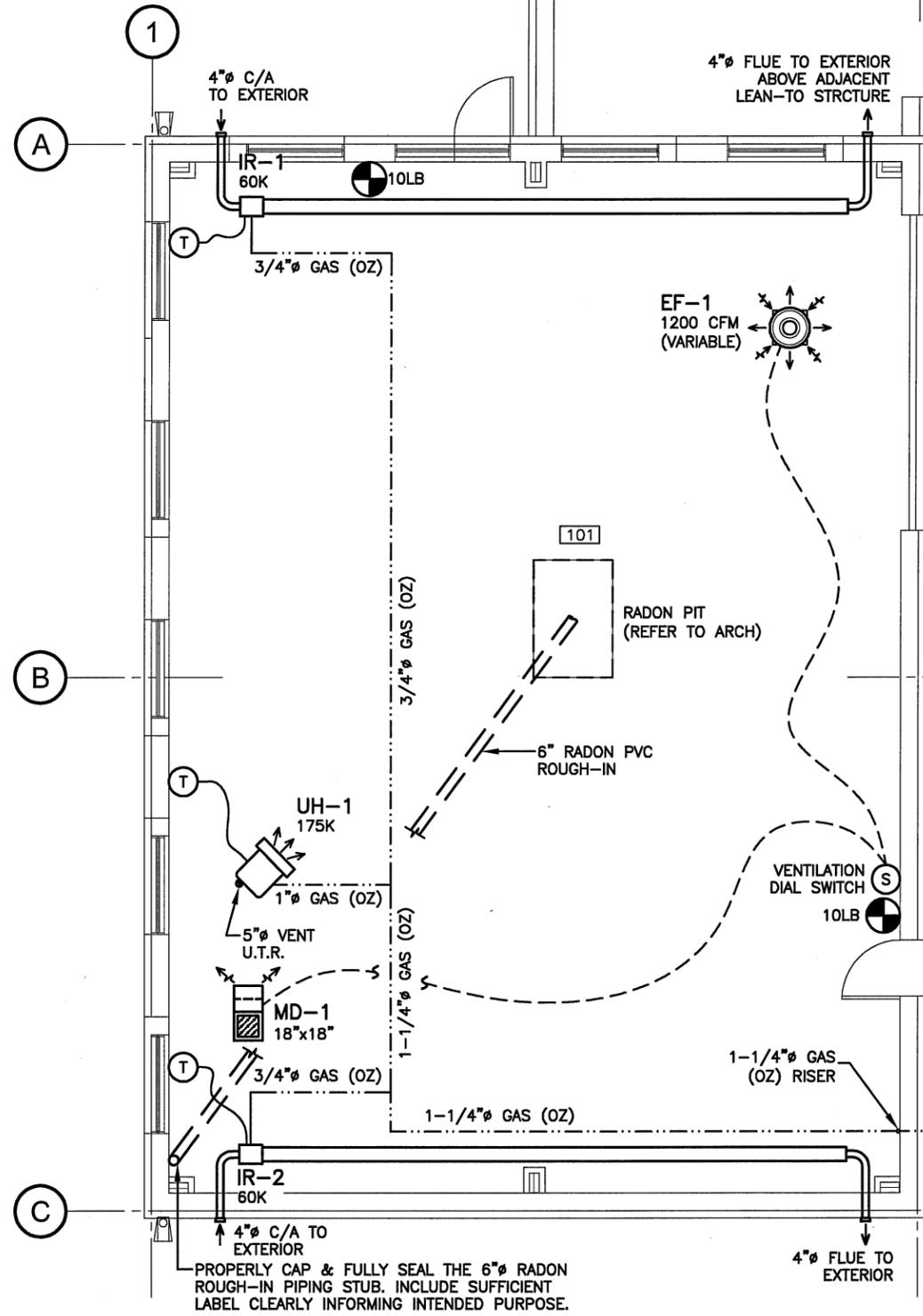


REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MIN. CLEARANCES BETWEEN FLUE AND COMBUSTION AIR TERMINATIONS

PROVIDE MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS FOR ALL INFRARED HEATERS IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.



**MAIN FLOOR MECHANICAL PLAN**  
SCALE: 1:100

## MECHANICAL EQUIPMENT SCHEDULE

- EF-1**  
ROOF MOUNTED, DIRECT DRIVE UPBLAST VARIABLE CENTRIFUGAL EXHAUST FAN, LEAKPROOF CONSTRUCTION, 1200 CFM @ 1.0" ESP, 1/2 HP DIRECT DRIVE MOTOR, 120V-1Ø POWER. REFER TO INTERLOCK TABLE. GREENHECK 'CUBE-121-VG' (OR EQUAL)
- IR-1,2**  
NOMINAL 60,000 BTUH LOW INTENSITY STD. ENVIRONMENT INFRARED HEATER, 30' LONG TUBE, C/W DIRECT SPARK IGNITION, VENTING TO OUTSIDE AND REMOTE LOW VOLTAGE T-STAT CONTROL, 120V-1Ø POWER RE-VERBER-RAY 'SE2-30-60' (OR EQUAL)
- MD-1**  
18"x18" ROOF MOUNTED GOOSENECK INLET AIR INTAKE COMPLETE WITH MOTORIZED DAMPER. 120V-1Ø POWER. REFER TO INTERLOCK TABLE. VENTEX MBD & BELIMO ACTUATOR (OR EQUAL)
- UH-1**  
NOMINAL 175,000 BTUH INPUT GAS FIRED UNIT HEATER, CEILING SUSPENDED, MIN. 145,250 BTUH OUTPUT, LOW PROFILE CONFIGURATION C/W ALUMINIZED BURNER & HEAT EXCHANGER, REMOTE T-STAT CONTROL, 5"Ø POWER VENTED FLUE TO OUTDOORS, 120V-1Ø POWER. REZNOR 'UDAP-175' (OR EQUAL)

## MECHANICAL EQUIPMENT INTERLOCKS

**VENTILATION SWITCH -- 'OFF'**  
EF-1 = [OFF]  
MD-1 = [CLOSED]

**VENTILATION SWITCH -- 'ON'**  
EF-1 = [ON]  
MD-1 = [OPEN]

\*NOTE THAT EF-1 IS EQUIPPED WITH A VARIABLE SPEED DIAL AND THAT THE 'ON' POSITION DENOTES ANYTIME THE FAN IS POWERED.

THE MECHANICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE FINAL INCOMING GAS LOCATION FROM THE UTILITY SUPPLIER DIRECTLY AND MADE ANY REQUIRED ACCOMMODATIONS. THE TRADE SHALL ALSO COORDINATE WITH THE AUTHORITY OF THE CORRECTIONAL FACILITY TO MINIMIZE ANY DISRUPTION TO THE SITE OR ANY ADJACENT BUILDINGS.

## HVAC SYMBOLS LEGEND

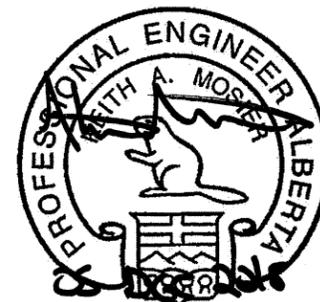
- ROOF MOUNTED EXHAUST FAN
- AIR INLET WITH MOTORIZED DAMPER
- SWITCH / DIAL
- THERMOSTAT
- INFRARED GAS TUBE HEATER
- GAS FIRED UNIT HEATER

## PLUMBING SYMBOLS LEGEND

- NATURAL GAS SUPPLY LINE
- FIRE EXTINGUISHER (SURFACE MOUNTED)
- NATURAL GAS METER

## GAS LOAD SCHEDULE

- IR-1 = 60,000 BTUH
  - IR-2 = 60,000 BTUH
  - UH-1 = 175,000 BTUH
  - FUTURE = 80,000 BTUH
- TOTAL BUILDING GAS LOAD - 375 CFH



**PERMIT TO PRACTICE**  
**908 ENGINEERING INCORPORATED**

Signature *[Signature]*

Date 05 DEC 2018

**PERMIT NUMBER: P 11661**  
The Association of Professional Engineers,  
Geologists and Geophysicists of Alberta



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DO NOT SCALE DRAWINGS

Revision/	Description/	Date/
0	ISSUED FOR TENDERS, PERMITS & CONSTRUCTION	181205

Client/client

**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

Project title/Titre du projet

**PÊ SAKĀSTĒW CENTRE MASKWACIS, ALBERTA VOCATIONAL FACILITY DESIGN**

Approved by/Approve par  
KM  
Designed by/Concept par  
KM  
Drawn by/Dessine par  
KM  
PWGSC Project Manager/Administrateur de Projets TPSGC  
JAMES PATTISON  
PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client  
PWGSC

Drawing title/Titre du dessin  
MAIN FLOOR MECHANICAL PLAN

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R.072604.001	M101 OF 1	0