

- 5

FINISHES

1

PIPE HANGERS AND SUPPORTS: GALVANIZED AFTER MANUFACTURE.

2

ENSURE STEEL HANGERS IN CONTACT WITH COPPER PIPING ARE EPOXY COATED.
- 6

EXPANSION JOINTS

1

PROVIDE PREFABRICATED EXPANSION JOINTS WHERE REQUIRED FOR THERMAL MOVEMENT.
- 7

RISER CLAMPS

1

COPPER PIPE: CARBON STEEL COPPER PLATED TO MSS SP58, TYPE 42.

2

BOLTS: TO ASTM A307.

3

NUTS: TO ASTM A563.
- 3.5

THERMAL INSULATION FOR PIPING

1

SCOPE OF WORK:

1

PROVIDE AND INSTALL THERMAL INSULATION FOR NEW DOMESTIC COLD, HOT AND HOT WATER RECIRCULATION PIPING

2

INSULATION:

1

TIAC CODE: A-1.

1

SECUREMENTS: TAPE AT 300 MM ON CENTRE.

2

SEALS: LAP SEAL ADHESIVE, LAGGING ADHESIVE.

3

INSTALLATION: TIAC CODE 1501-H.

2

TIAC CODE: A-3.

1

SECUREMENTS: TAPE AT 300 MM ON CENTRE.

2

SEALS: VR LAP SEAL ADHESIVE, VR LAGGING ADHESIVE.

3

INSTALLATION: TIAC CODE: 1501-C.

APPLICATION	TEMP (°C)	TIAC CODE	PIPE SIZES (DN [NPS]) AND INSULATION THICKNESS (MM)			
			TO 25 [1]	32 TO 50 [1- 1/4 TO 2]	65 TO 100 [2- 1/2 TO 4]	125 TO 150 [5 TO 6]
DOMESTIC HOT WATER		A-1	25	25	25	25
DOMESTIC COLD WATER		A-3	25	25	25	25

- Part 4

CONTROLS
- 1

SECTION INCLUDES

1

DESIGN, SUPPLY, INSTALLATION, TESTING AND FINAL COMMISSIONING OF ALL HVAC AND MISCELLANEOUS EQUIPMENT CONTROLS INCLUDING,

1

CONTROLS AND DEVICES SPECIFIED IN THIS SECTION.

2

ANY PACKAGED EQUIPMENT SYSTEM CONTROLS SUPPLIED BY DIVISION 23 INCLUDING RESPONSIBILITY FOR ANY MISCELLANEOUS FIELD CONTROL WIRING TO ACHIEVE THE REQUIRED PACKAGED CONTROLS SEQUENCE OF OPERATION.

1

ERV-1 ENERGY RECOVERY VENTILATOR

1

ENERGY RECOVERY VENTILATOR SHALL OPERATE AT A CONSTANT FAN SPEED AND AIRFLOW 24/7 DURING THE OPERATING SEASON, USING FACTORY JUMPER.

2

MOTORIZED DAMPERS MD-1 AND MD-2 SHALL BE INTERLOCKED TO ERV-1. DAMPERS SHALL BE PROVEN OPEN PRIOR TP ERV FAN BEING ENABLED.

3

MOTORIZED OUTDOOR AIR DAMPERS SHALL BE ELECTRICALLY INTERLOCKED TO ACTUATE OPEN WHENEVER ERV-1 IS POWERED AND OPERATING.

2

EHC-1 ELECTRIC REHEAT COIL

1

EHC-1 SHALL BE INTERLOCKED WITH ERV-1, AIRFLOW TO BE PROVEN PRIOR TO EHC-1 BEING ENABLED.

2

EHC-1 TO PROVIDE DISCHARGE AIR CONTROL TO MAINTAIN SUPPLY TEMPERATURE OF 21°C.

3

UH-1 ELECTRIC UNIT HEATER

1

UNIT SHALL OPERATE TO MAINTAIN SPACE TEMPERATURE BASED ON INTEGRATED FACTORY CONTROLS.

0	ISSUED FOR CONSTRUCTION	2026-07-16	D.G.
Rev	Revision Description	Date	Issued by
Revision Schedule			

ENGINEERS
GEOSCIENTISTS
MANITOBA

Certificate of Authorization
Alliance Engineering Services Inc.
No.2906



DESIGN

R.D.

DRAWN

R.D.

CHECKED

D.G.

APPROVED

D.G.



CITY OF WINNIPEG
2777 Portage Avenue, Winnipeg, MB, R3J 0R3

GRANT'S OLD MILL
MAINTENANCE BUILDING RENOVATION
MECHANICAL SPECIFICATIONS

SIZE

SCALE

AS NOTED

DWG. NO.

M4.4

SHEET

REV 0