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Revision	By	Appd.	YY.MM.DD

File Name: 21006-M	GS	WD	MA	25.03.28
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

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2025-06-04

WINNIPEG TRANSIT MAINTENANCE FACILITY OFFICE REDEVELOPMENT

MECHANICAL SPECIFICATIONS

36. CONTROLS - SEQUENCE OF OPERATION

36.1. ENERGY RECOVERY VENTILATOR (ERV-1) SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. ERV SHALL BE OFF AND EXTERIOR ISOLATION DAMPERS CLOSED DURING UNOCCUPIED MODE.

36.2. VENTILATION DUCT HEATING COILS (DHC-x) SHALL MODULATE TO SUPPLY VENTILATION AIR AT 75°F (ADJUSTABLE).

36.3. VENTILATION DUCT COOLING COILS (CC-x) SHALL MODULATE TO SUPPLY VENTILATION AIR AT 55°F (ADJUSTABLE).

36.4. ROOFTOP UNITS (RTU-x)

36.4.1. DURING UNOCCUPIED HOURS, RTU-x SHALL CYCLE ON AND OFF TO MEET ROOM TEMPERATURE SETPOINTS.

36.4.2. HEATING: THE SUPPLY FAN SHALL OPERATE AND THE HEATING COIL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 71°F (ADJUSTABLE), THE FAN SHALL OPERATE AT VARIABLE SPEED BASED ON DEMAND FROM VAV BOXES.

36.4.3. COOLING: THE SUPPLY FAN SHALL OPERATE AND THE DX COOLING COIL SHALL CYCLE TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 55°. THE FAN SHALL OPERATE AT VARIABLE SPEED BASED ON DEMAND FROM VAV BOXES.

36.4.4.1 COOLING: VARIABLE AIR VOLUME BOXES SHALL ADJUST AIRFLOW TO EACH ZONE IN RESPONSE TO ROOM TEMPERATURE SENSOR SETPOINTS. ADJUSTMENTS SHALL BE BASED ON SUPPLY AIR TEMPERATURE FROM THE RTUs.

36.4.4.2 HEATING: VARIABLE AIR VOLUME BOXES SHALL ADJUST AIRFLOW TO EACH ZONE IN RESPONSE TO ROOM TEMPERATURE SENSOR SETPOINTS. ADJUSTMENTS SHALL BE BASED ON SUPPLY AIR TEMPERATURE FROM THE RTUs, WITH ELECTRIC REHEAT COILS MODULATING AS NEEDED TO MAINTAIN ZONE TEMPERATURE SETPOINTS.