

KEY PLAN
PLAN-REPÈRE

PROJECT NORTH
NORD DU PROJET

N.T.S.
PAS À L'ÉCHELLE

2	ISSUED FOR TENDER	2015-04-15
1	ISSUED FOR 100% REVIEW - TENDER	2015-01-30

revisions	description	date
<div><div>A</div><div>C</div></div>	A detail no. no du détail B location drawing no. no du dessin de localisation C drawing no. no du dessin	<div><div>A</div><div>B</div><div>C</div></div>

project

projet

CHILLER REPLACEMENT
FOR TRANSPORT CANADA
TRAINING CENTRE
(BUILDING O-276)

drawing

dessin

MAIN BUILDING
CONTROLS

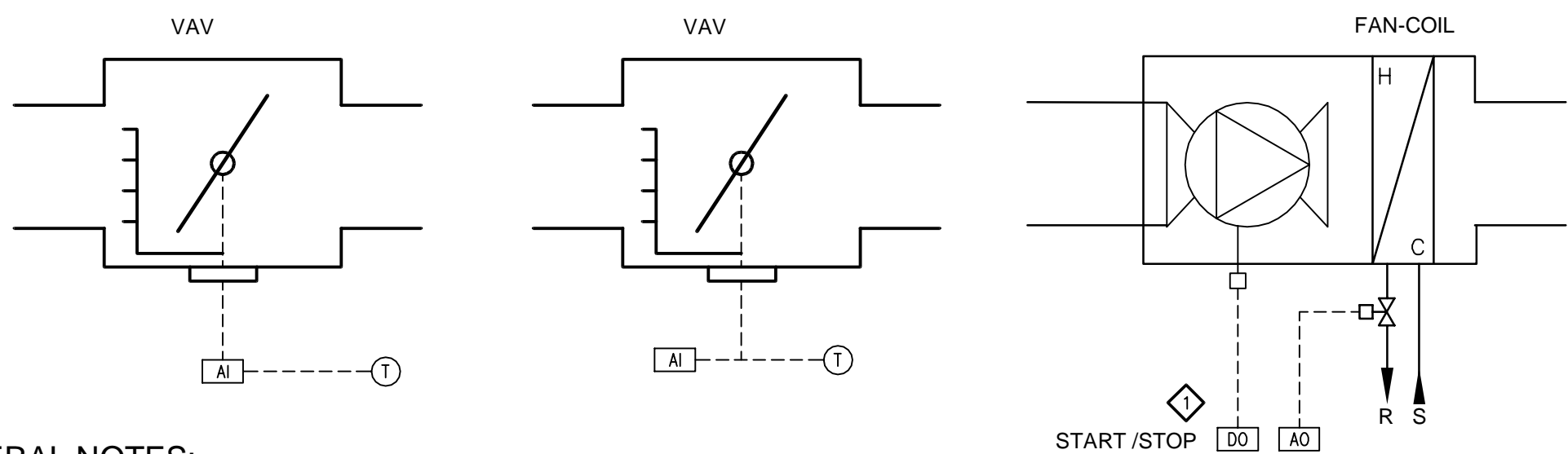
Designed By	CARL MUIR	Conçu par
Date	2014-08-21	(yyyy/mm/dd)
Drawn By	CARL MUIR	Dessiné par
Date	2014-08-21	(yyyy/mm/dd)
Reviewed By	DAVID LANDSBERG	Examiné par
Date	2014-09-10	(yyyy/mm/dd)
Approved By	DAVID LANDSBERG	Approuvé par
Date	2014-09-10	(yyyy/mm/dd)
Tender	2015-01-30	Soumission
Project Manager	K. DUNN	Administrateur de projet
Project no.		no du projet

R.060139.002

Drawing no.

no du dessin

M604



GENERAL NOTES:

1. DURING COOLING THE FAN-COIL IS OFF AND THE HEATING VALVE IS CLOSED. ALL BOXES MODULATE ACCORDING TO THE TEMPERATURE SIGNAL OF THE CLOSEST ZONE TEMPERATURE SENSOR.
2. WHEN HEATING MODE IS ACTIVE AND THE FIRST OF SEVERAL BOXES ASSOCIATED WITH ONE FAN-COIL REACHES MINIMUM POSITION, ALL BOXES ASSOCIATED WITH THAT FAN-COIL ARE DRIVEN TO MINIMUM POSITION, THE FAN-COIL IS STARTED, AND THE VALVE IS MODULATED TO CONTROL SPACE TEMPERATURE TO A HEATING SET-POINT OF 22 C ON THE AVERAGE TEMPERATURE OF THE ASSOCIATED ZONE TEMPERATURE SENSORS.
3. SEE THE CONTROL NOTES ON THE VAV BOX SCHEDULE, DRAWING M-003 FOR QUANTITIES OF ZONES, BOXES, AND FAN-COILS WHERE THIS SEQUENCE IS REQUIRED.
4. SEE DRAWINGS M504 AND M505 FOR ROOM TEMPERATURE SENSOR RELOCATIONS, ADDITIONS AND REMOVALS.

DRAWING NOTES:

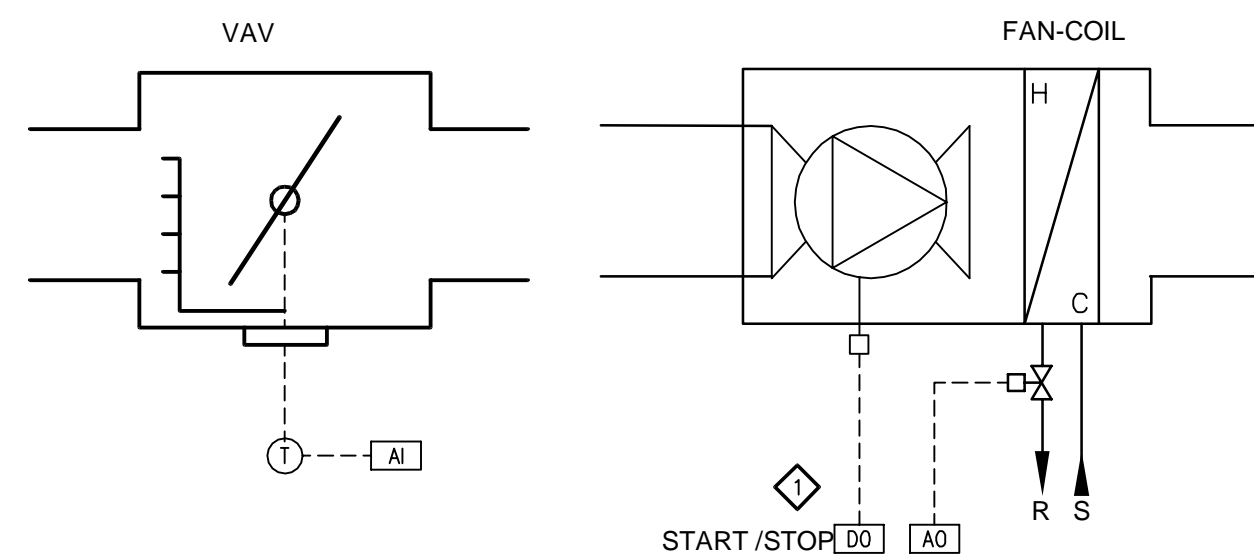
- ADD NEW STOP/START CONTROL POINT TO EXISTING FAN-COILS FC-1 THROUGH FC-05. INCLUDE NEW START/STOP AND CONTROL VALVE ON NEW FAN-COILS FC-6 AND FC-7.

1

M604

MULTIPLE PERIMETER ZONES WITH ONE FAN COIL

NTS



GENERAL NOTES:

1. DURING COOLING THE FAN-COIL IS OFF AND THE HEATING VALVE IS CLOSED. BOX MODULATES ACCORDING TO THE TEMPERATURE SIGNAL OF ITS ZONE TEMPERATURE SENSOR.
2. WHEN HEATING MODE IS ACTIVE AND THE BOX REACHES MINIMUM POSITION, THE FAN-COIL IS STARTED, AND THE VALVE IS MODULATED TO CONTROL SPACE TEMPERATURE TO A HEATING SET-POINT OF 22 C.
3. SEE DRAWINGS M504 AND M505 FOR ROOM TEMPERATURE SENSOR RELOCATIONS, ADDITIONS AND REMOVALS.

DRAWING NOTES:

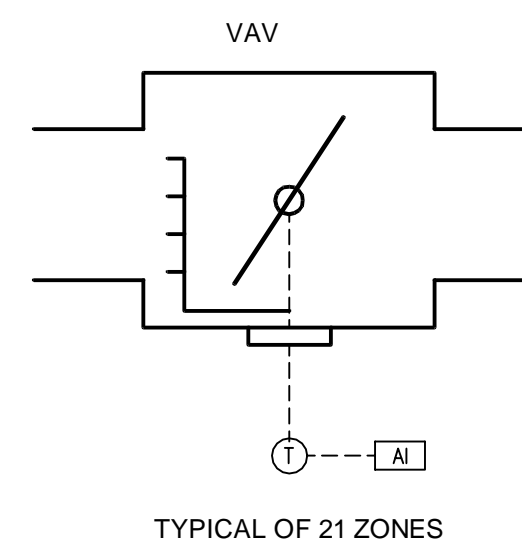
- ADD NEW STOP/START CONTROL POINT TO EXISTING FAN-COILS FC-1 THROUGH FC-05. INCLUDE NEW START/STOP AND CONTROL VALVE ON NEW FAN-COILS FC-6 AND FC-7.

2

M604

SINGLE PERIMETER ZONE WITH ONE FAN COIL OR ONE REHEAT COIL

NTS



GENERAL NOTES:

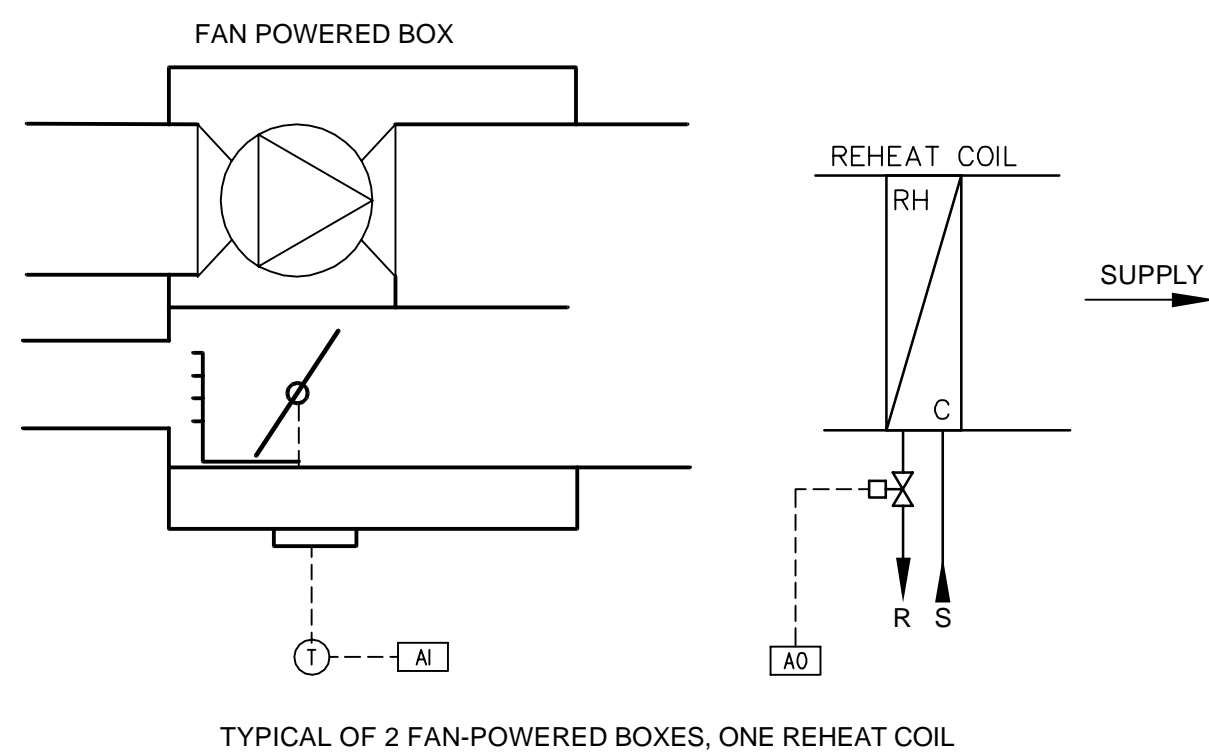
1. DURING COOLING THE BOX MODULATES ACCORDING TO THE TEMPERATURE SIGNAL OF ITS ZONE TEMPERATURE SENSOR.
2. WHEN HEATING MODE IS ACTIVE THE BOX REMAINS AT MINIMUM POSITION.
3. SEE DRAWINGS M504 AND M505 FOR ROOM TEMPERATURE SENSOR RELOCATIONS, ADDITIONS AND REMOVALS.

3

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INTERIOR VAV ZONE

NTS



GENERAL NOTES:

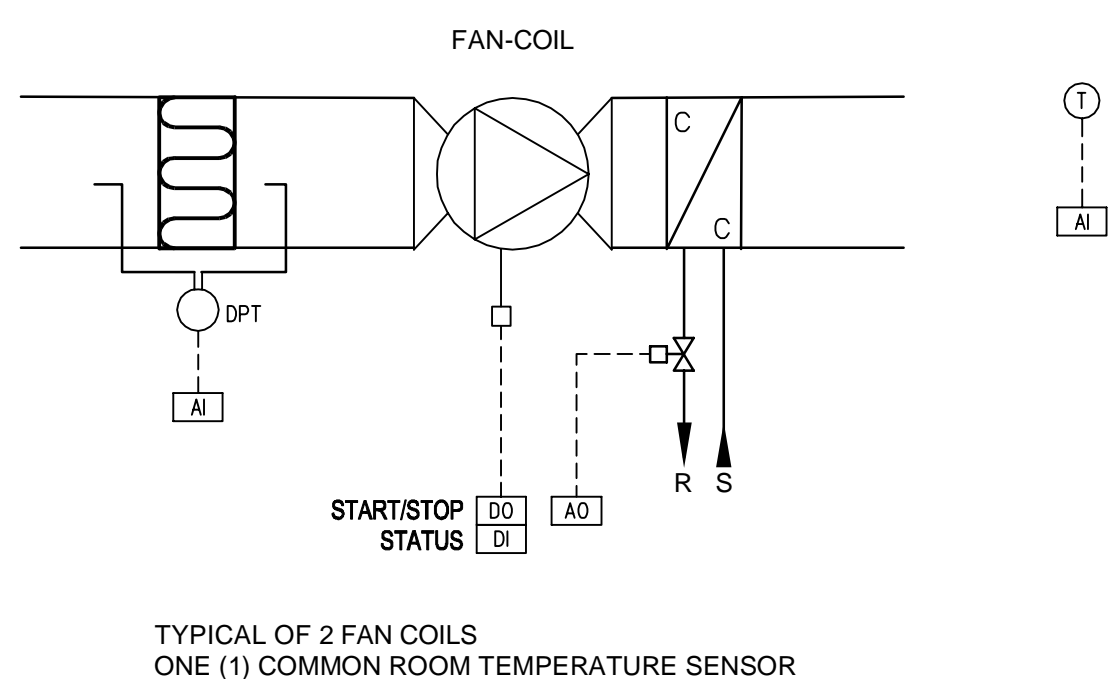
1. DURING COOLING THE FAN-COIL IS OFF AND THE BOX MODULATES THE PRIMARY AIR DAMPER ACCORDING TO THE TEMPERATURE SIGNAL OF ITS ZONE TEMPERATURE SENSOR. IF THE BOX REACHES FULL OPEN POSITION AND THE COOLING DEMAND PERSISTS, THE FAN IS CYCLED ON AND OFF AS REQUIRED IN ORDER TO MAINTAIN SPACE TEMPERATURE SET-POINT AT 23 C.
2. DURING HEATING MODE THE SAME COOLING SEQUENCE APPLIES. ONCE THE PRIMARY AIR HAS REACHED MINIMUM POSITION AND FAN-POWERED IS OFF, IF A HEATING DEMAND IS PRESENT, THE REHEAT COIL IS MODULATED TO CONTROL SPACE TEMPERATURE TO A HEATING SET-POINT OF 22 C. DURING UNOCCUPIED HOURS WHEN RTU-3 IS OFF, THE FAN IS STARTED AND THE REHEAT COIL IS MODULATED TO CONTROL SPACE TEMPERATURE TO A HEATING SET-POINT OF 22 C.
3. SEE DRAWINGS M504 AND M505 FOR ROOM TEMPERATURE SENSOR RELOCATIONS, ADDITIONS AND REMOVALS.

4

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FAN-POWERED BOXES

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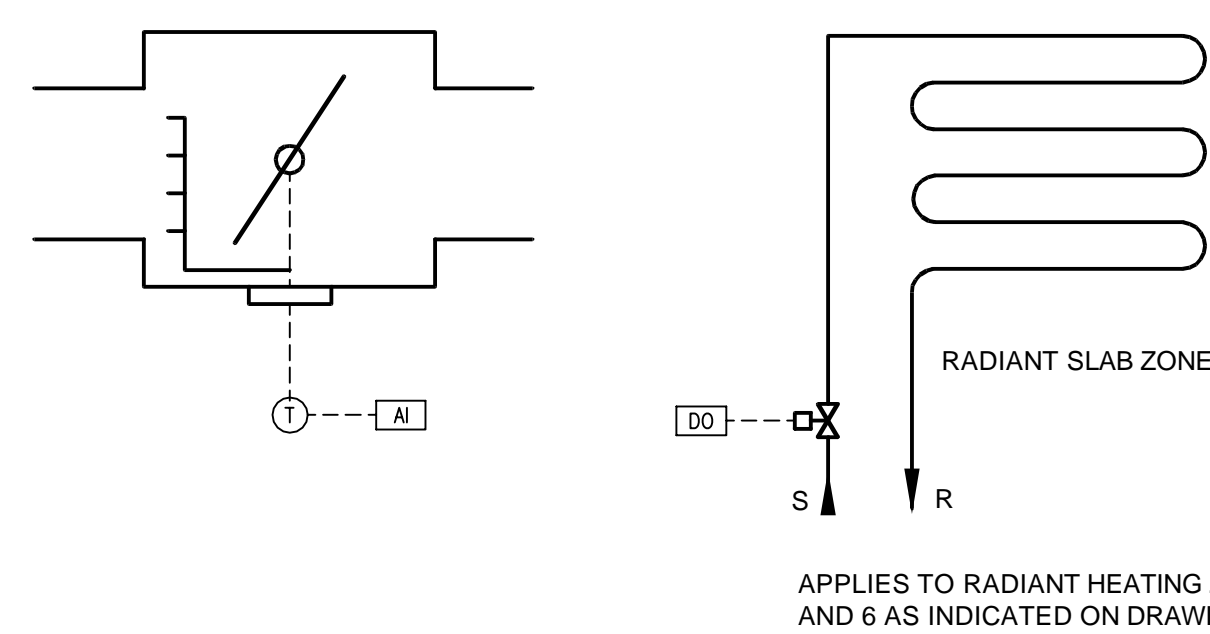


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HYDRAULIC BUILDING COOLING AC-01, AC-02

NTS



GENERAL NOTES:

1. WHEN HEATING MODE IS ACTIVE AND THE BOX REACHES MAXIMUM POSITION, THE RADIANT SLAB ZONE VALVE IS OPENED AND CYCLED AS REQUIRED TO CONTROL SPACE TEMPERATURE TO A HEATING SET-POINT OF 22° C.

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SINGLE PERIMETER ZONE WITH RADIANT SLAB

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