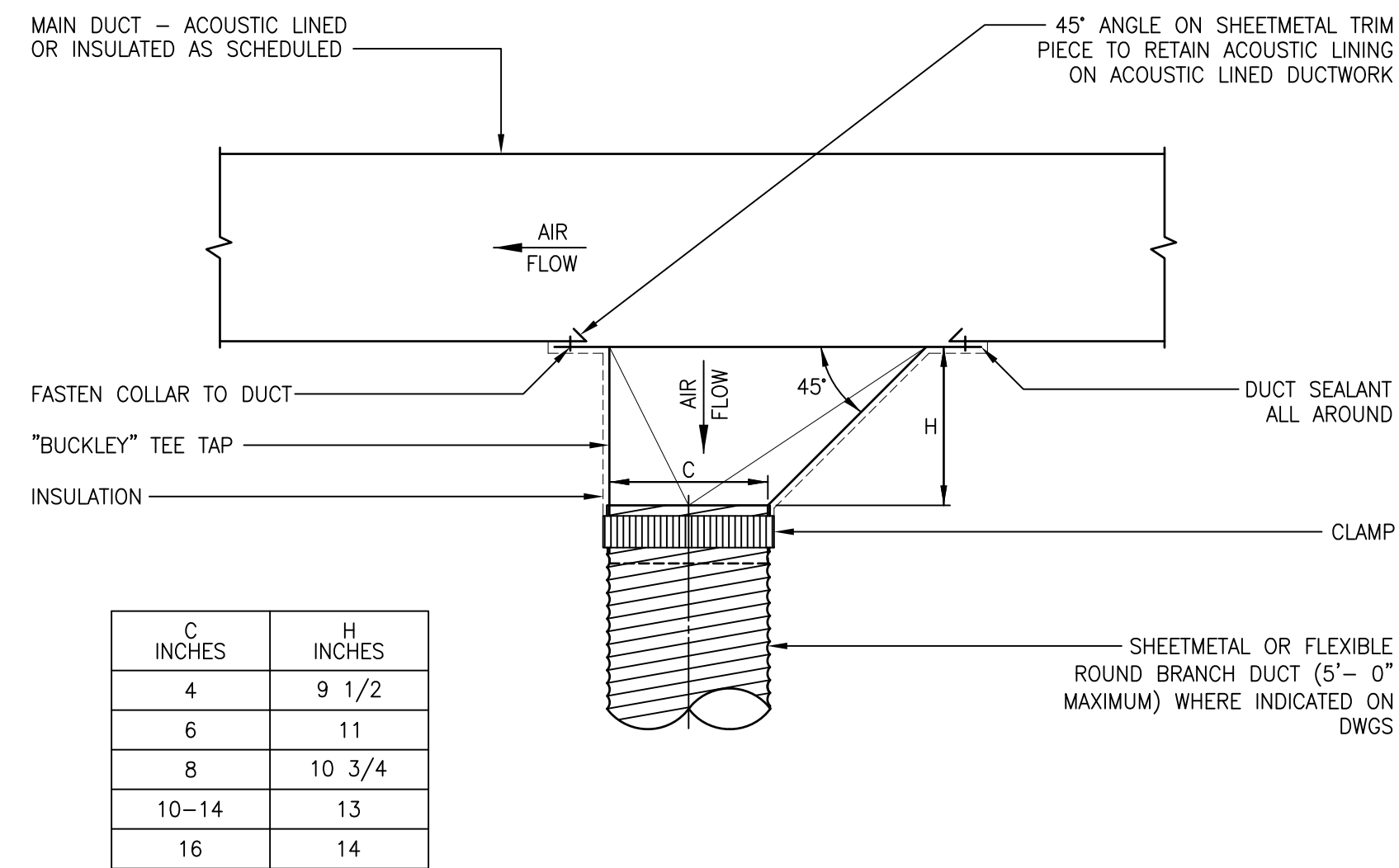


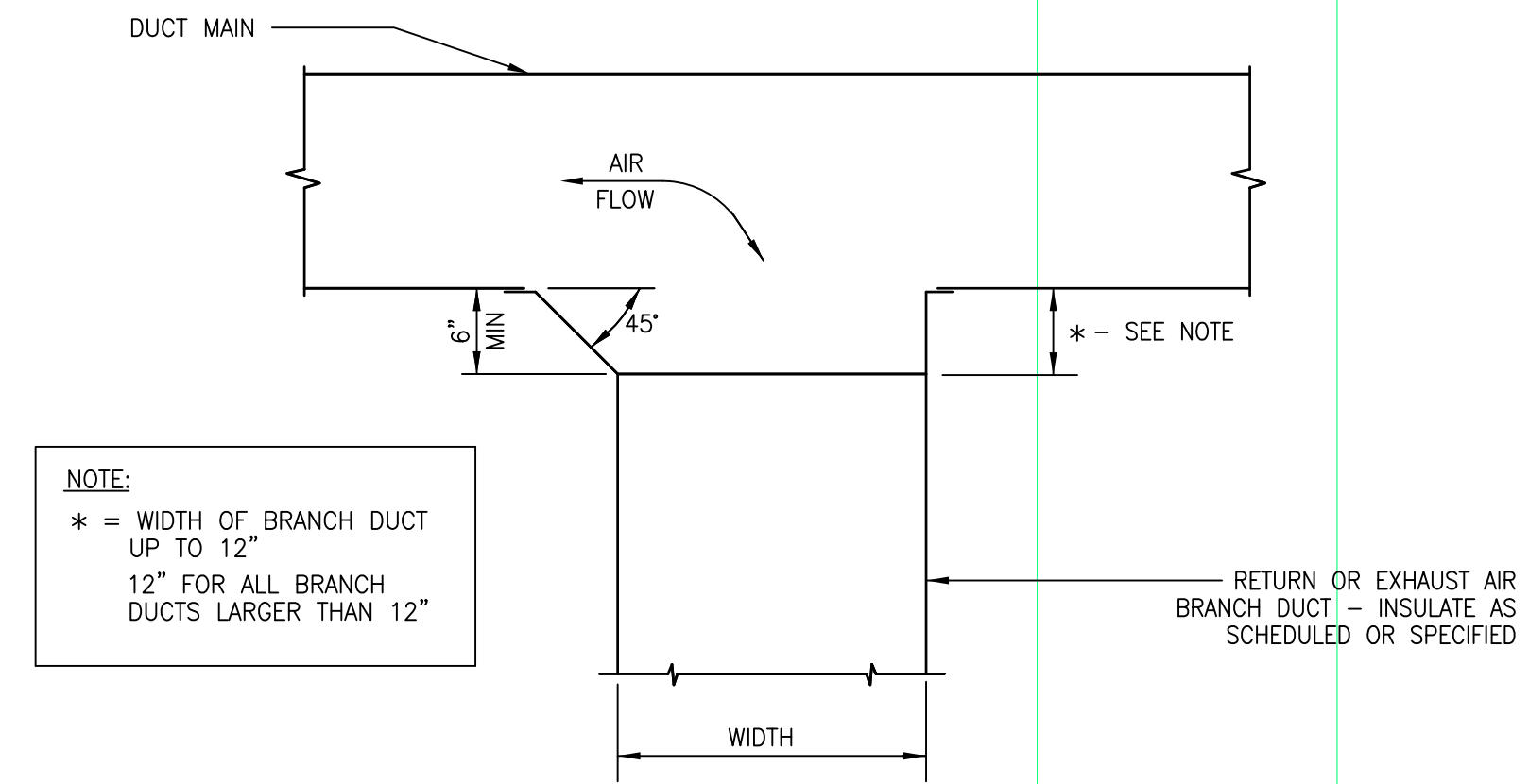
NOTE: PROVIDE FIRE DAMPER AT ALL FIRE RESISTANCE RATED CEILING ASSEMBLIES.

N.T.S. 1 AIR DEVICE: INSTALLATION: GRILLE/REGISTER/DIFFUSER
MECHANICAL DUCTWORK CONSTRUCTION



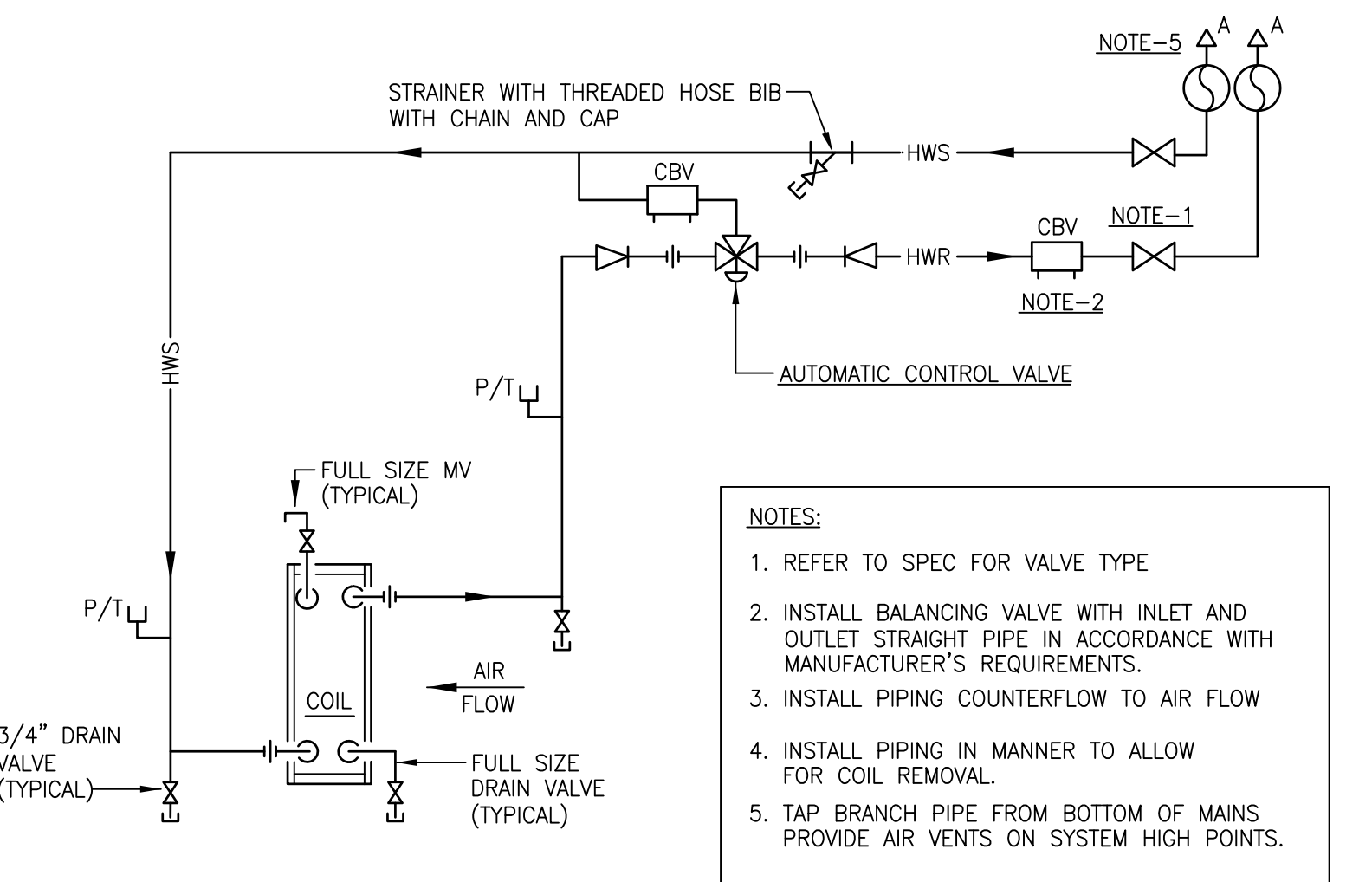
C INCHES	H INCHES
4	9 1/2
6	11
8	10 3/4
10-14	13
16	14

N.T.S. 2 DUCTWORK: TAKE-OFF: "BUCKLEY" TYPE
MECHANICAL DUCTWORK CONSTRUCTION



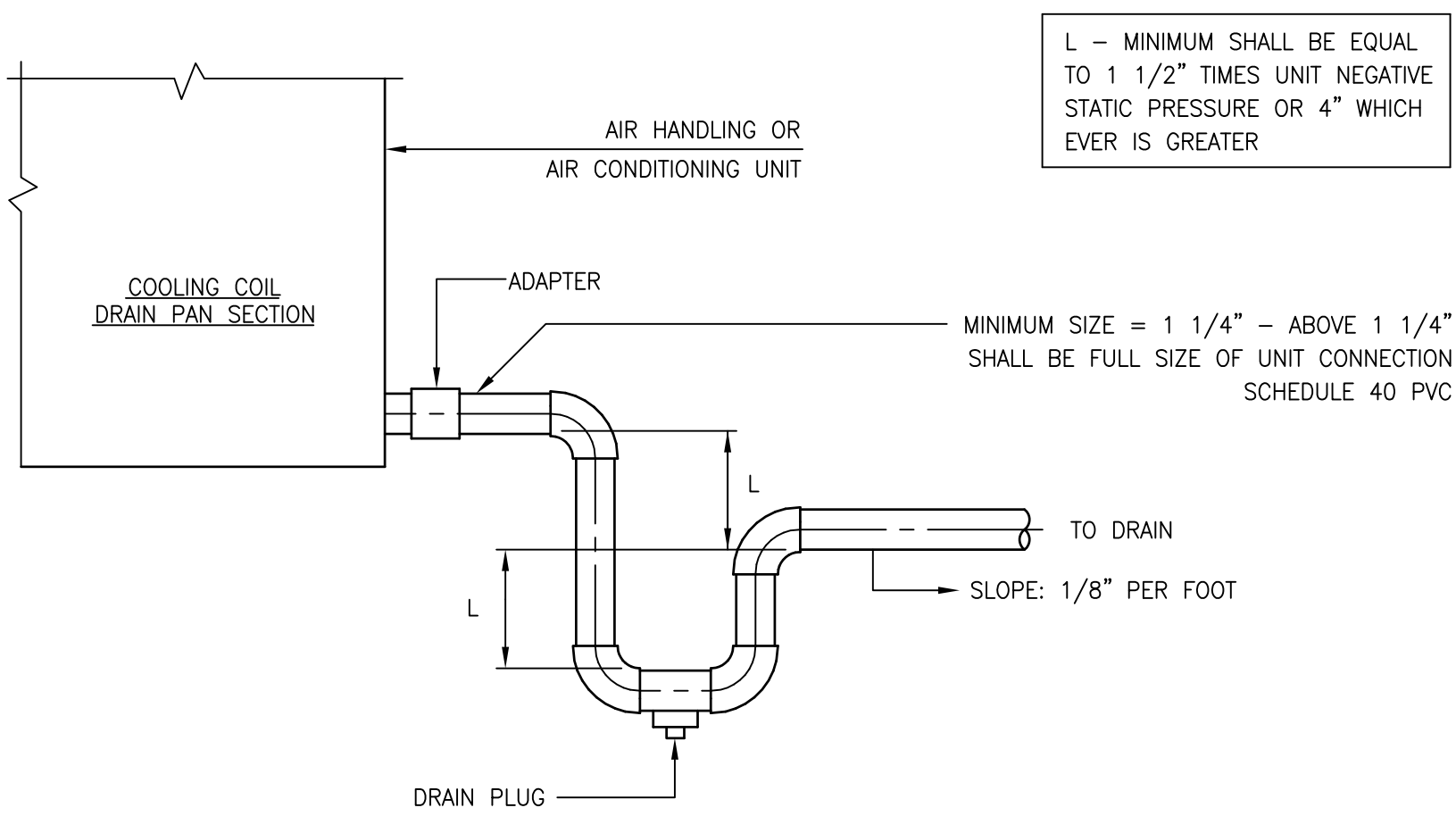
NOTE:
* = WIDTH OF BRANCH DUCT UP TO 12" 12" FOR ALL BRANCH DUCTS LARGER THAN 12"

N.T.S. 3 DUCTWORK: TAKE-OFF: SIDE OF DUCT
MECHANICAL DUCTWORK CONSTRUCTION



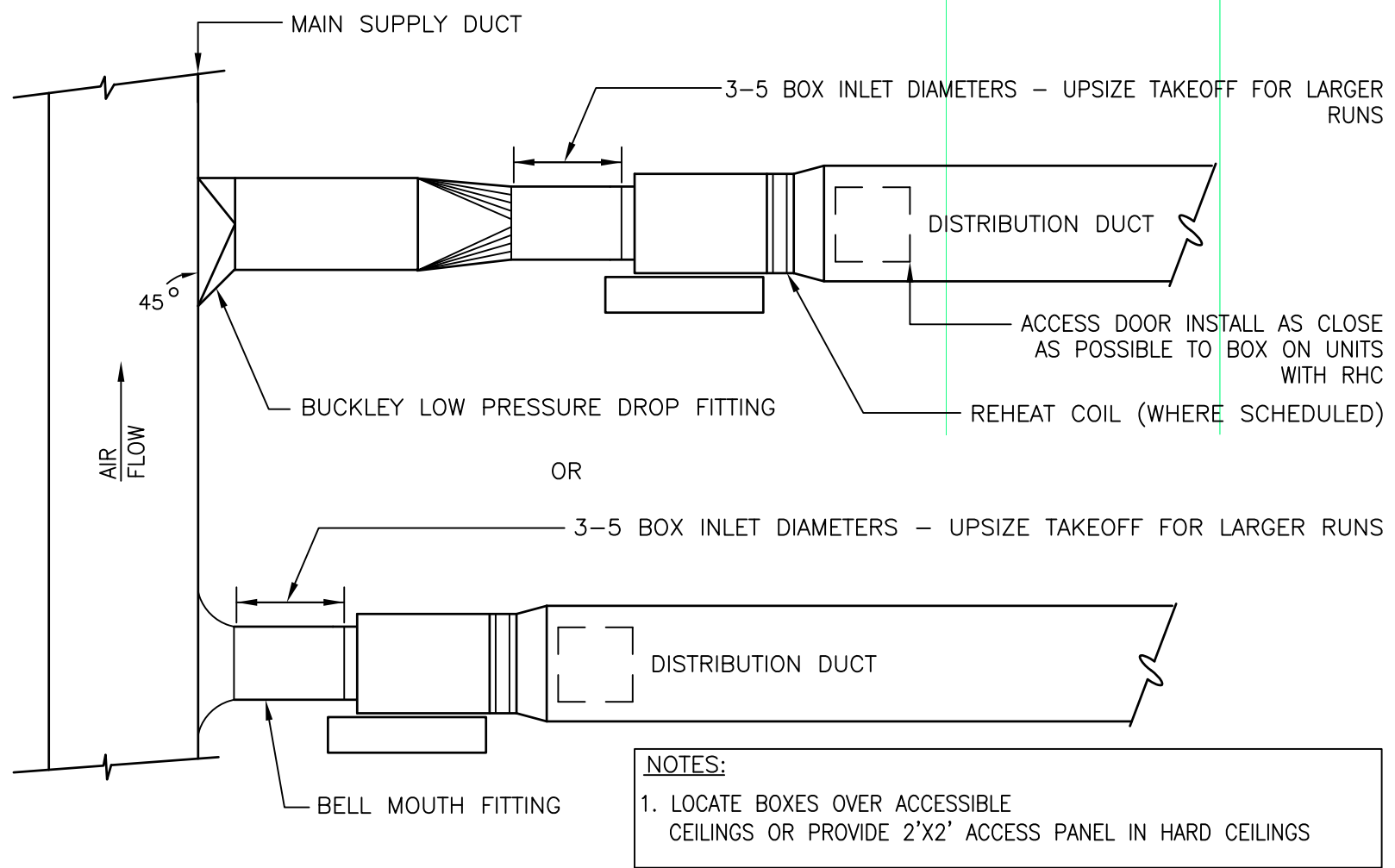
NOTES:
1. REFER TO SPEC FOR VALVE TYPE
2. INSTALL BALANCING VALVE WITH INLET AND OUTLET STRAIGHT PIPE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
3. INSTALL PIPING COUNTERFLOW TO AIR FLOW
4. INSTALL PIPING IN MANNER TO ALLOW FOR COIL REMOVAL.
5. TAP BRANCH PIPE FROM BOTTOM OF MAINS PROVIDE AIR VENTS ON SYSTEM HIGH POINTS.

N.T.S. 4 PIPING: REHEAT WATER: COIL w/3-WAY VALVE
MECHANICAL PIPING DETAILS



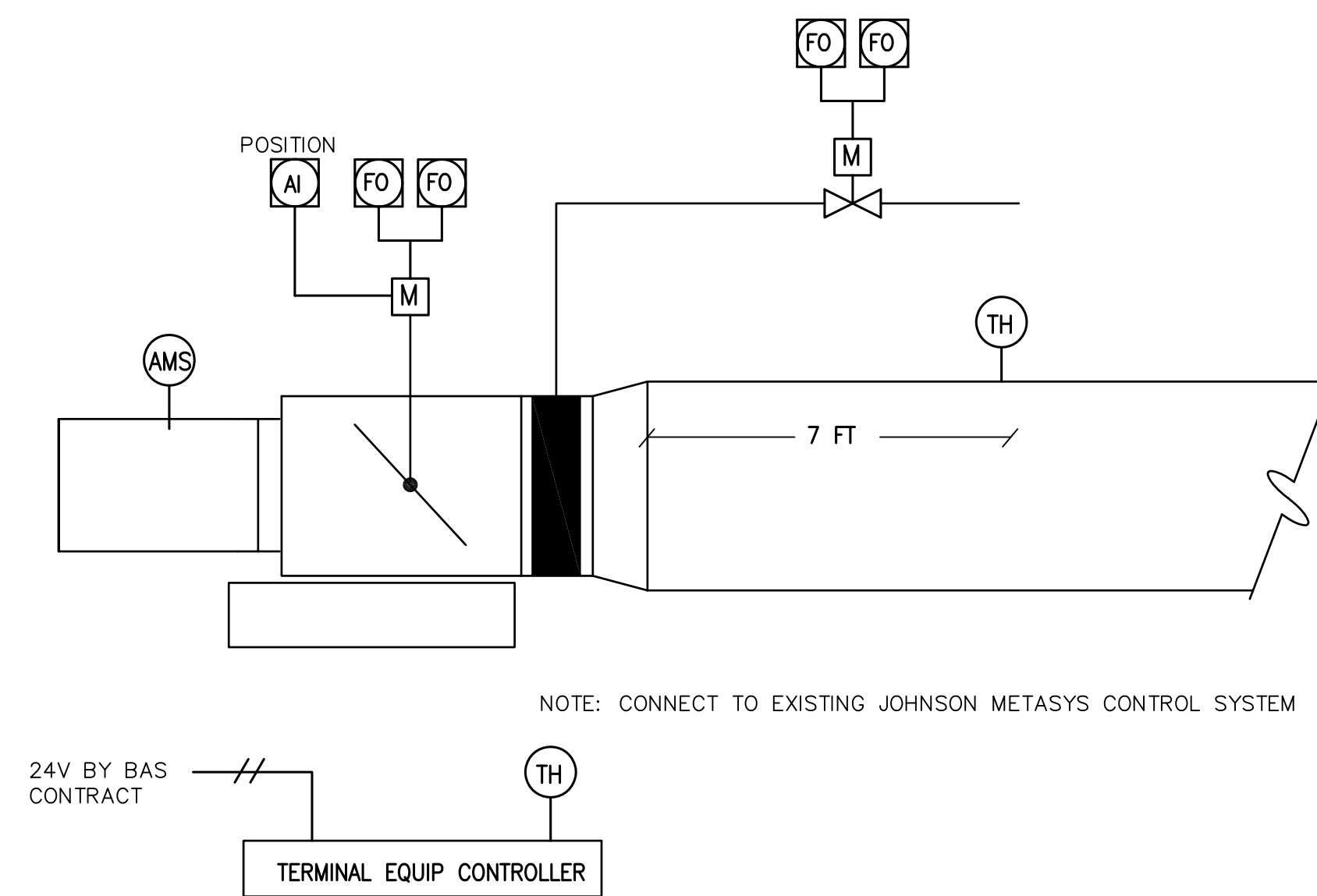
L - MINIMUM SHALL BE EQUAL TO 1 1/2" TIMES UNIT NEGATIVE STATIC PRESSURE OR 4" WHICH EVER IS GREATER

N.T.S. 5 PIPING: COIL CONDENSATE: COOLING COIL DRAIN
MECHANICAL PIPING DETAILS



NOTES:
1. LOCATE BOXES OVER ACCESSIBLE CEILING OR PROVIDE 2'X2' ACCESS PANEL IN HARD CEILING

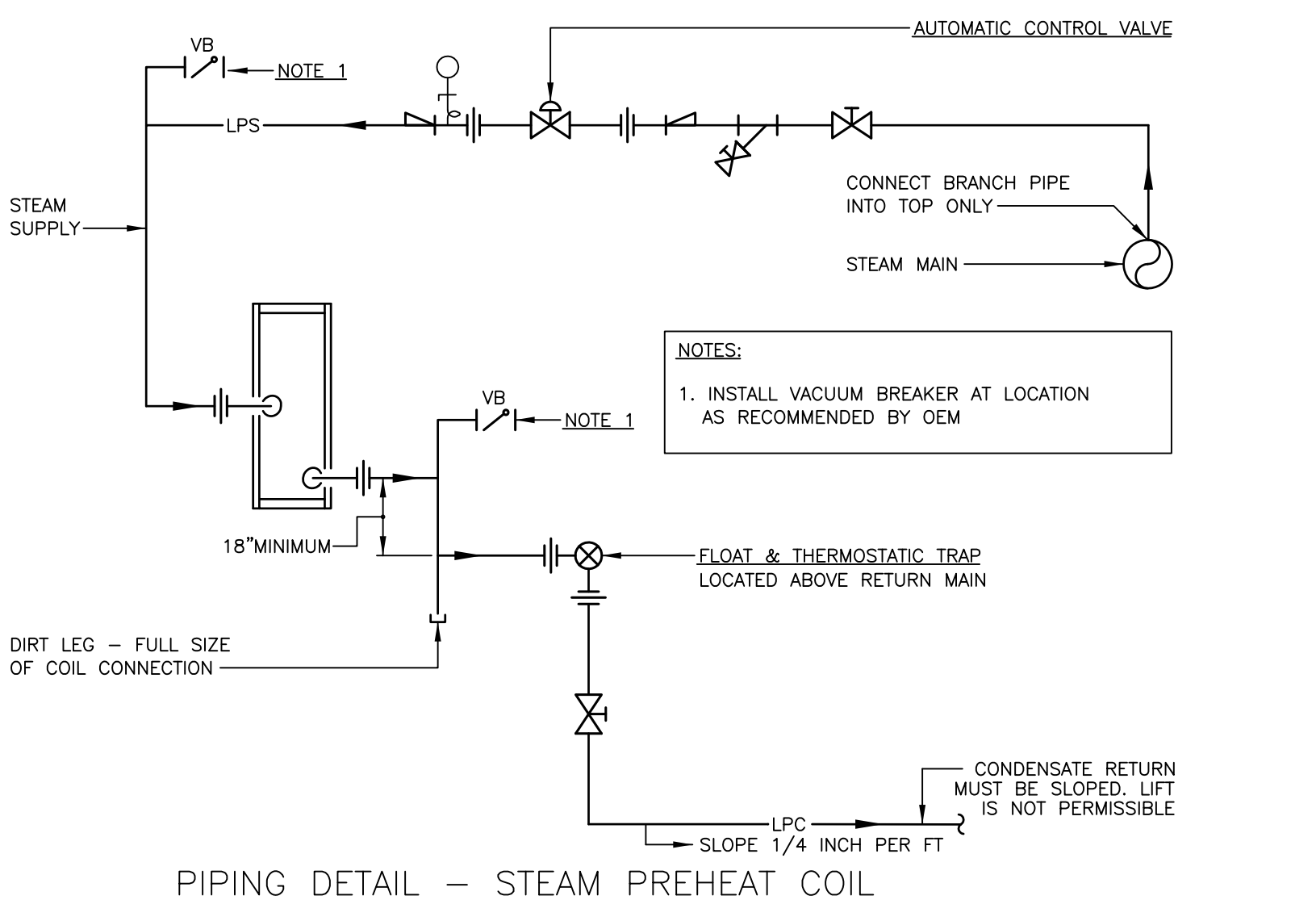
N.T.S. 6 DUCTWORK: TERMINAL BOX DUCT CONNECTION
MECHANICAL DUCTWORK CONSTRUCTION



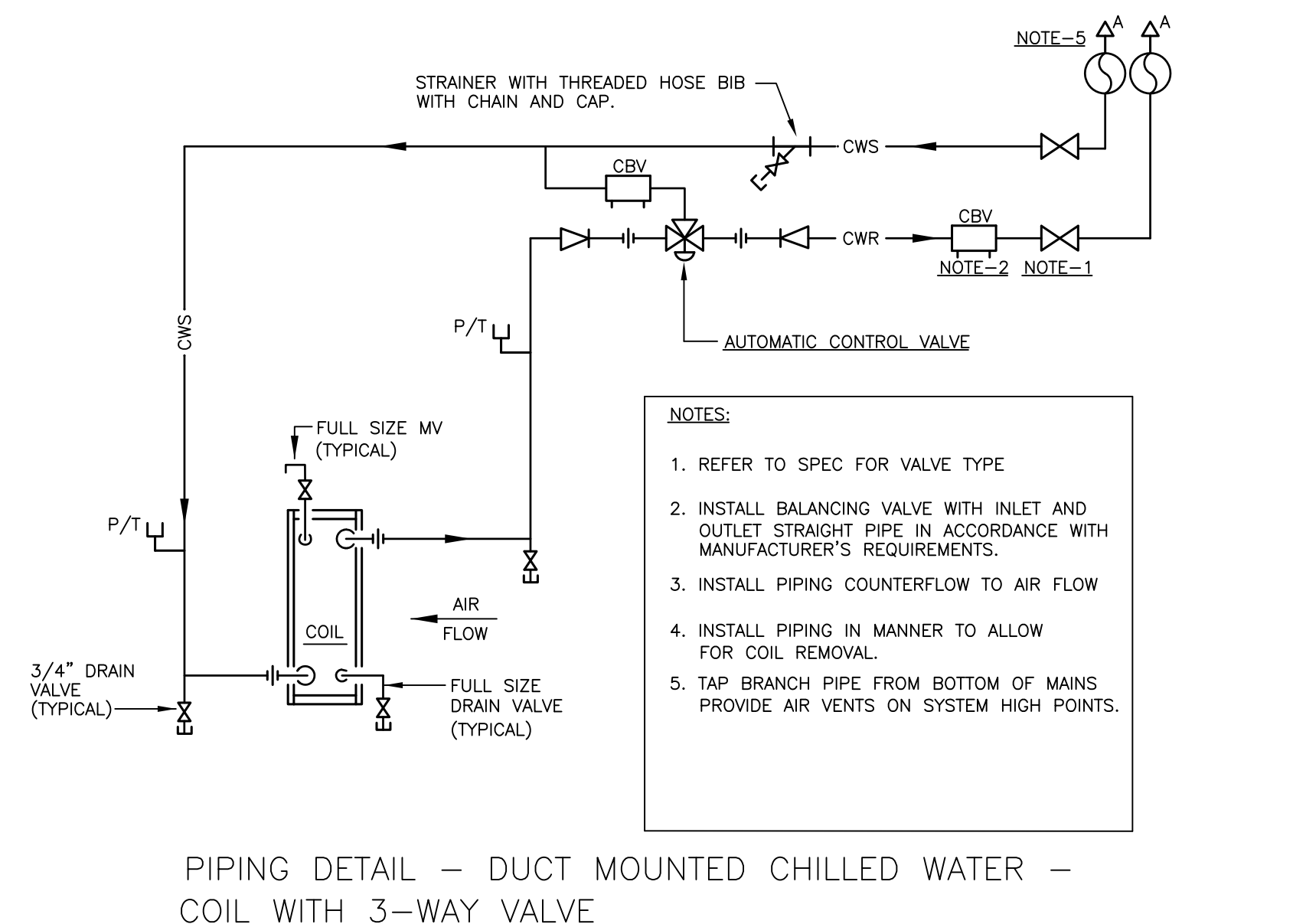
VAV BOX CONTROL (FLOATING CONTROL) DIAGRAM

SEQUENCE OF OPERATION

1. THE BOX DAMPER SHALL MODULATE TO MAINTAIN THE CFM SETPOINT.
2. WITH A RISE IN SPACE TEMPERATURE THE CFM SETPOINT SHALL INCREASE TO ITS MAX SETPOINT.
3. WITH A FALL IN SPACE TEMPERATURE THE CFM SETPOINT SHALL DECREASE TO ITS MINIMUM SETPOINT.
4. WITH A CONTINUED DROP IN SPACE SETPOINT THE REHEAT COIL VALVE SHALL MODULATE OPEN.
5. DURING THE UNOCCUPIED MODE THE BOX TEMPERATURE SETPOINTS SHALL INDEX TO THEIR UNOCCUPIED SETPOINTS.
6. PROVIDE SUMMARY GRAPHIC TABLE LISTING ALL INPUTS AND OUTPUTS FOR ALL BOXES



PIPING DETAIL - STEAM PREHEAT COIL



PIPING DETAIL - DUCT MOUNTED CHILLED WATER - COIL WITH 3-WAY VALVE

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PROJECT:
**MAINE MEDICAL CENTER
BRIGHTON CAMPUS
WOUND CARE AND
HYPERBARIC MEDICINE**
333 BRIGHTON AVENUE
PORTLAND, ME 04103

KEY PLAN: GROUND FLOOR

ISSUE DATES:
 ▲ JANUARY 26, 2015
 ▲ STATE APPROVALS
 ▲ MARCH 20, 2014
 ▲ BLDG. DESIGN REVIEW

DRAWN BY: ALS

CHECKED BY: BMF

SCALE: AS NOTED

PROJECT NO.: P14110

SHEET TITLE:
**MECHANICAL
DETAILS**

DRAWING NO.:
M-7

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