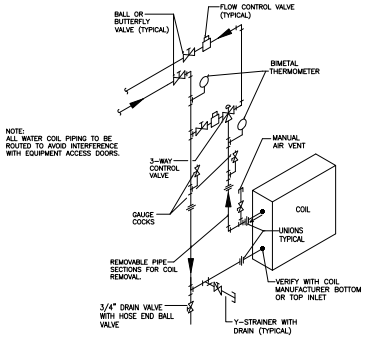
GENERAL NOTES - THIS SHEET

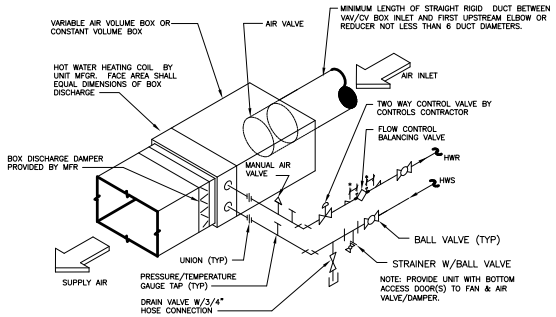
1. FOR GENERAL NOTES AND LEGEND SEE SHEET M001.



DETAIL-AIR HANDLING UNIT WATER COIL PIPING-3 WAY VALVE

SCALE: NOT TO SCALE

NOTE: TYPICAL FOR AHU UNIT CHILLED WATER AND HOT WATER ONLY AS NOTED ON DRAWINGS.

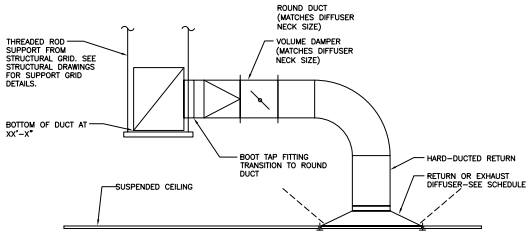


* STRAIGHT LENGTHS OF UNOBSTRUCTED PIPE WITHOUT INLINE APPURTENANCES SHALL BE INSTALLED UP/DOWNSTREAM OF FLOW CONTROL BALANCING VALVE PER MFR'S INSTALLATION INSTRUCTIONS

DETAIL- VAV OR CV BOX OR DUCT HEATING COIL

SCALE: NOT TO SCALE

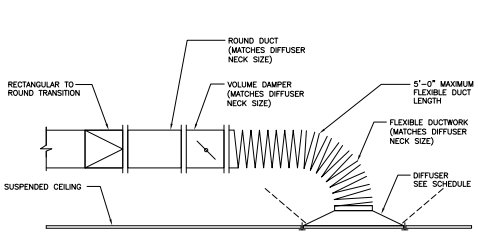
NOTE: INSTALL 2-WAY VALVES AT VAV/CV BOXES UNLESS NOTED OTHERWISE ON PLANS.



DETAIL- RETURN OR EXHAUST DIFFUSER

SCALE: NOT TO SCALE

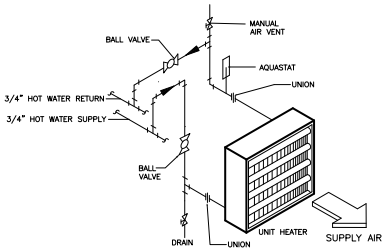
NOTE: PROVIDE EARTHQUAKE SUPPORT TABS AND CABLE PER SMACNA.



DETAIL- CEILING SUPPLY OR AIR DIFFUSER

SCALE: NOT TO SCALE

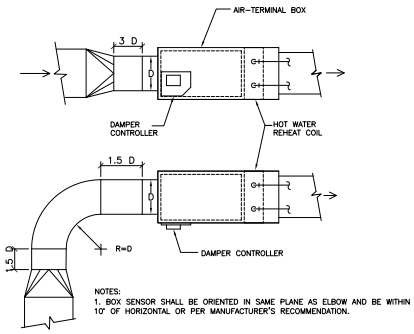
NOTE: PROVIDE EARTHQUAKE SUPPORT TABS AND CABLE PER SMACNA.



DETAIL-HOT WATER UNIT HEATER

SCALE: NOT TO SCALE

NOTE: LOCATE UNIT HEATER INSIDE AHU SERVICE ACCESS CORRIDOR. ROUTE PIPING FROM BRANCH PIPING IN UNIT SERVICE CORRIDOR.

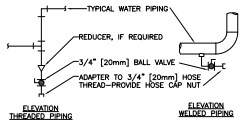


NOTES:
1. BOX SENSOR SHALL BE ORIENTED IN SAME PLANE AS ELBOW AND BE WITHIN 10° OF HORIZONTAL OR PER MANUFACTURER'S RECOMMENDATION.
2. IF INDICATED STRAIGHT RUN CANNOT BE OBTAINED, A FLOW- STRAIGHTENER SHALL BE PROVIDED AT BOX INLET.

DETAIL- VAV BOX CONNECTIONS (HARD DUCTED)

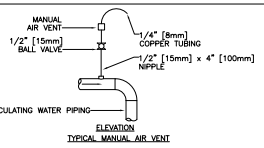
SCALE: NOT TO SCALE

NOTE: PROVIDE SEISMIC SUPPORT TABS AND CABLE PER SMACNA.



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

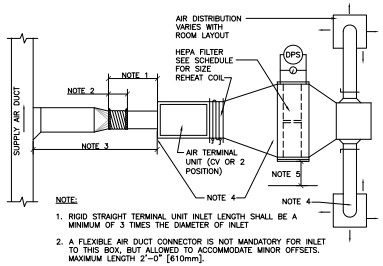
NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



NOTES:
1. VENT ALL HIGH POINTS INDICATED ABOVE.
2. PIPE DISCHARGE TO DRAIN.

DETAIL-AIR VENT AND DRAIN VALVE CONNECTIONS

SCALE: NOT TO SCALE



NOTE:
1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET
2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 2'-0" [610mm].
3. A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET [3 M]. FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.2"/100' [1.6894Pa/m].
4. ALL DUCTWORK UPSTREAM AND DOWNSTREAM OF THE HEPA FILTER SHALL BE GALVANIZED STEEL.
5. PROVIDE SIDE ACCESS FOR FILTER SERVICE. SEE MANUFACTURER'S SPECIFICATION FOR CLEARANCE REQUIREMENT.

DETAIL-CONSTANT VOLUME UNIT FOR POSITIVE ISOLATION RM

SCALE: NOT TO SCALE

100% SUBMITTAL
BID SET - CONSTRUCTION DOCUMENTS
DATE: DECEMBER, 21 2012

BID SET - 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

BY	REVISIONS	DATE

O'BRIEN & GERE

"CONFIDENTIAL": THESE DRAWINGS MUST BE RETURNED TO FACILITIES MANAGEMENT SERVICE, PROJECT SECTION, UPON COMPLETION, OR FINAL USE BY THE CONTRACTOR FOR BIDDING PURPOSES.

ASBESTOS WARNING: ASBESTOS CONTAINING BUILDING MATERIALS (ACBM) ARE PRESENT THROUGHOUT THE FACILITY. IF CONTRACTORS FIND ACBM, OR SUSPECT FINDING ACBM, THEY SHALL IMMEDIATELY STOP WORK AND CONTACT THE PROJECT COTR.

SCALING NOTES: FULL SIZE V.A. "E" SHEETS (SCALE AS INDICATED) AND HALF SIZE V.A. "D" SHEETS (½ THE SCALE INDICATED LETTER SIZE DRAWINGS ARE NOT TO SCALE.

GENERAL NOTE: CONTRACTORS AND ARCHITECT/ENGINEERING FIRMS ARE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING CONDITIONS.

Project Title
RENOVATE
WARD 5 EAST

Drawing Title
FIFTH FLOOR - WARD EAST
MECHANICAL DETAILS

Building Number 47 | Checked TMF | Drawn MH
Location ASHEVILLE, NC

Date 12/21/12
Project No. 637-11-119
DRAWING NO. M107
Dwg 53 of 78

Office of Facilities
Department of Veterans Affairs