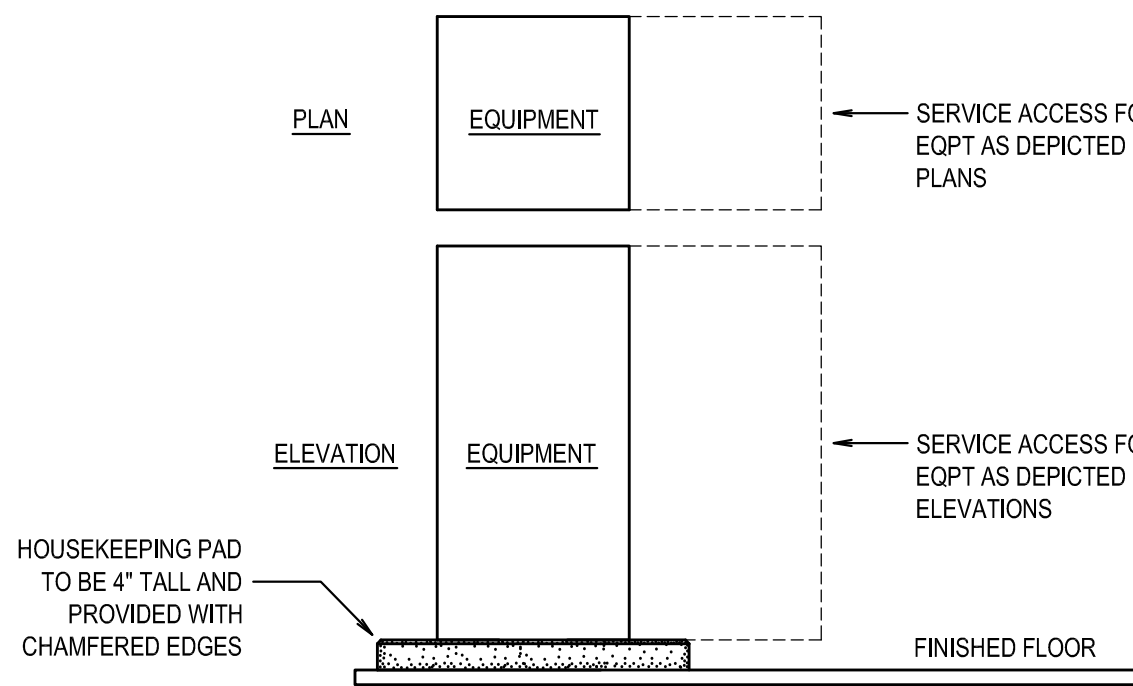


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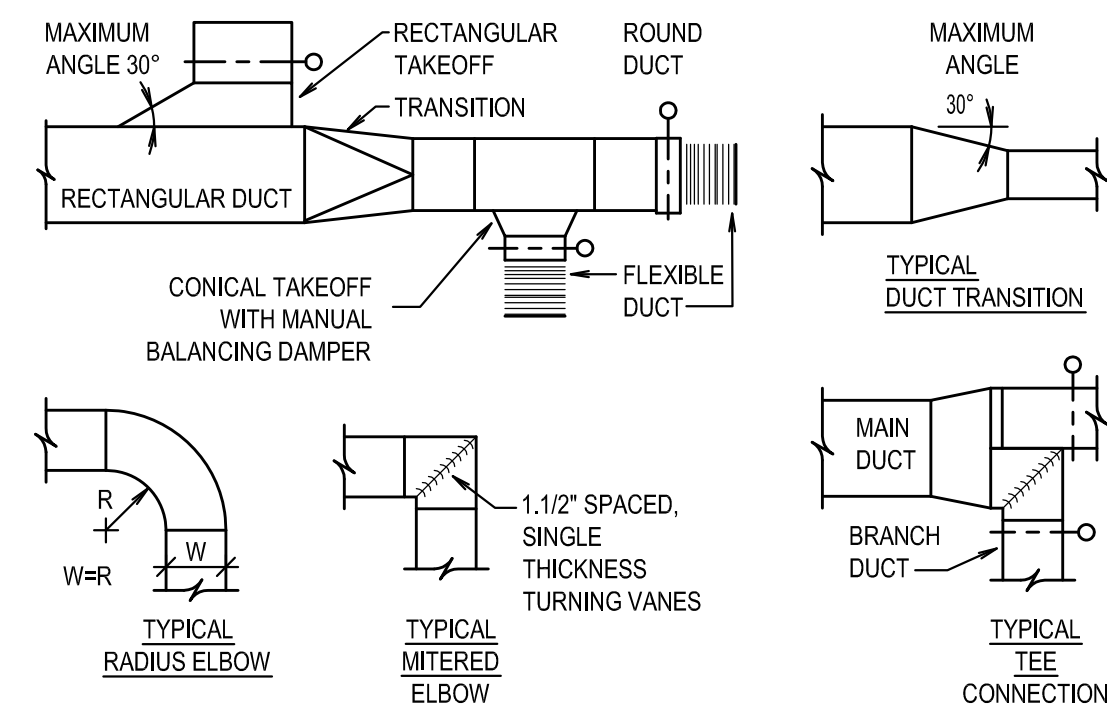


1 EQUIPMENT SERVICE CLEARANCE DETAIL

SCALE: NONE

NOTES:

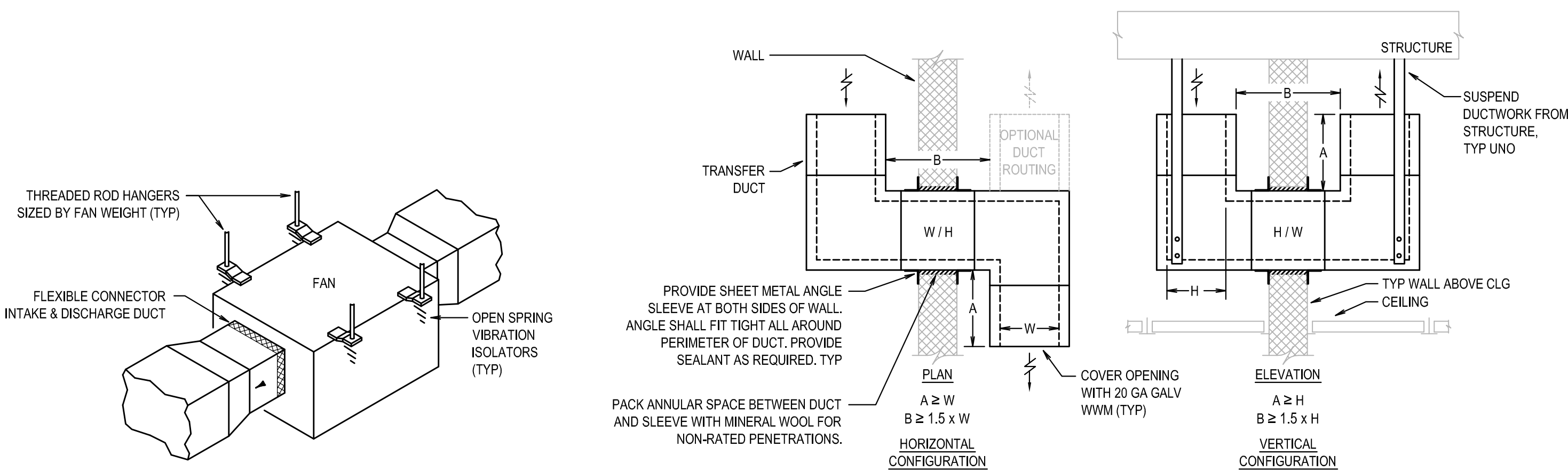
1. LOCATE ALL EQUIPMENT, WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. MAINTAIN A CLEAR PATH WITHOUT OBSTRUCTION TO ALLOW FOR ACCESS TO EQUIPMENT.
3. PROVIDE A MINIMUM OF THREE FEET OF CLEARANCE IN FRONT OF EQUIPMENT ACCESS DOORS AND COMPONENTS REQUIRING SERVICE, UNO.
4. HOUSEKEEPING PAD TO EXTEND BEYOND THE FOOTPRINT OF THE UNIT 4" IN ALL DIRECTIONS.



2 TYP DUCT CONNECTION DETAILS

SCALE: NONE

NOTES:



5 EXHAUST FAN DETAIL

SCALE: NONE

NOTES:

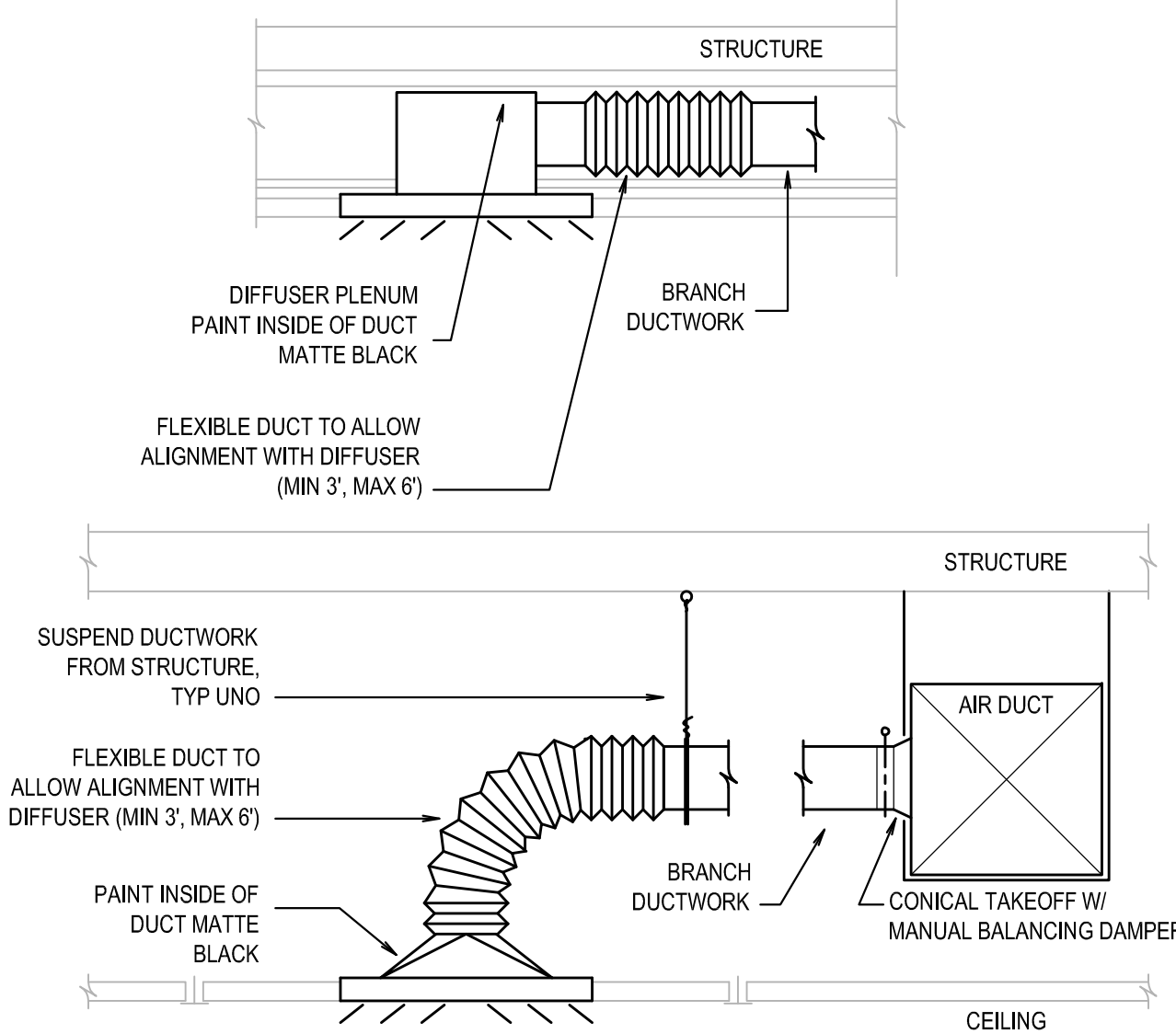
1. PROVIDE FLEXIBLE DUCT CONNECTIONS FOR ALL AIR MOVING EQUIPMENT, UNO.
2. PROVIDE OPEN SPRING VIBRATION ISOLATORS FOR ALL SUSPENDED EQUIPMENT, UNO.

6 TRANSFER DUCT DETAIL

SCALE: NONE

NOTES:

1. INSTALL DUCT ABOVE CEILING. COORDINATE INSTALLATION WITH OTHER TRADES.
2. REFER TO FLOOR PLANS FOR TRANSFER DUCT LOCATIONS AND CONFIGURATIONS.
3. INSTALL DUCT IN ACCORDANCE WITH SMACNA, WITH NO TURNING VANES IN ELBOWS.
4. LINE DUCT WITH 1" THICK ELASTOMERIC DUCT LINER WITH ANTI-MICROBIAL MYLAR COATING.
5. DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS FROM LINER SURFACE TO LINER SURFACE.
6. W = DUCT WIDTH; H = DUCT HEIGHT.
7. DETAIL IS TYPICAL FOR NON FIRE-RATED ASSEMBLIES. PROVIDE COMPONENTS AS REQUIRED TO MAINTAIN RATING OF ASSEMBLY. REFER TO FLOOR PLANS AS REQUIRED.

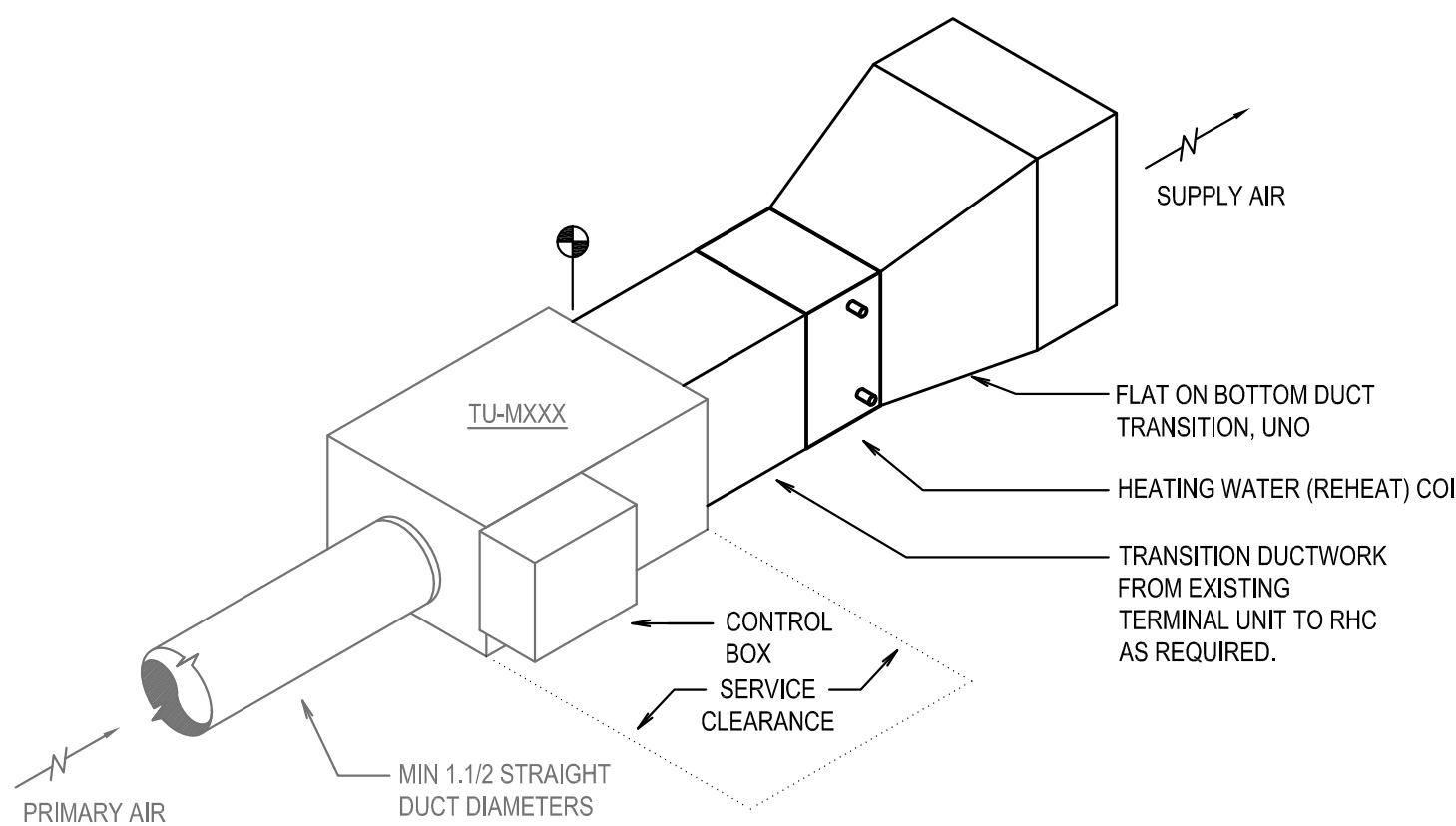


9 CEILING AIR DEVICE DETAILS

SCALE: NONE

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS, MECHANICAL FLOORPLANS, AND FIELD VERIFY DIMENSIONS PRIOR TO INSTALLATION OF DUCTWORK.
2. INSTALL RECTANGULAR DUCTWORK TAKE-OFFS FOR ROUND BRANCH DUCTWORK AS REQUIRED TO COORDINATE WITH OTHER TRADES AND ACCOMMODATE CEILING HEIGHTS INDICATED ON ARCHITECTURAL RCPs.

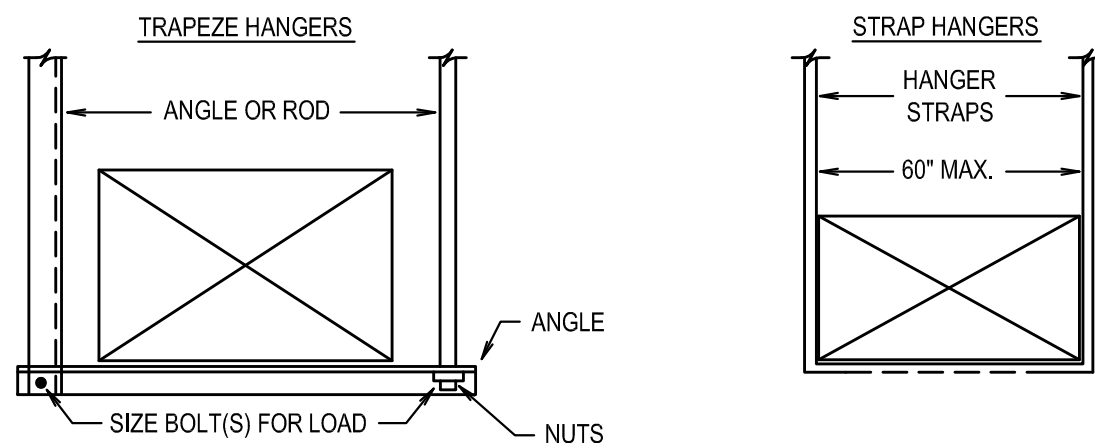


10 REHEAT COIL DETAIL

SCALE: NONE

NOTES:

1. REFER TO COIL PIPING DETAILS FOR HOT WATER COIL PIPING CONNECTIONS.
2. SUPPORT UNIT FROM STRUCTURE.

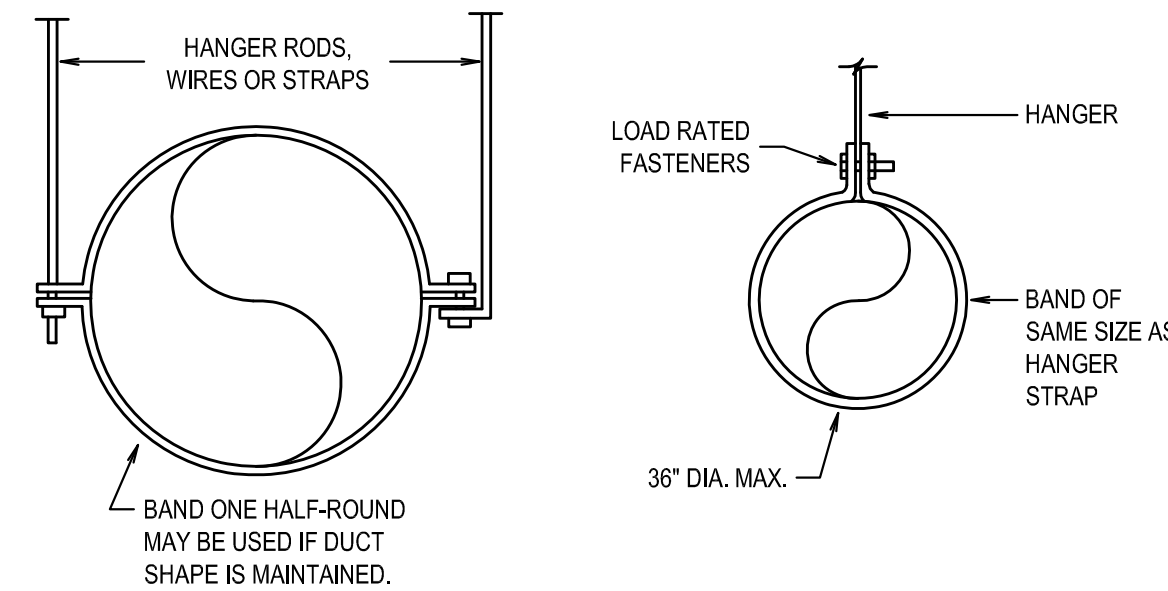


3 RECTANGULAR DUCT HANGER DETAILS

SCALE: NONE

NOTES:

1. SUPPORT MATERIALS AND FASTENERS SHALL BE OF SAME MATERIAL AS SUPPORTED DUCTWORK.

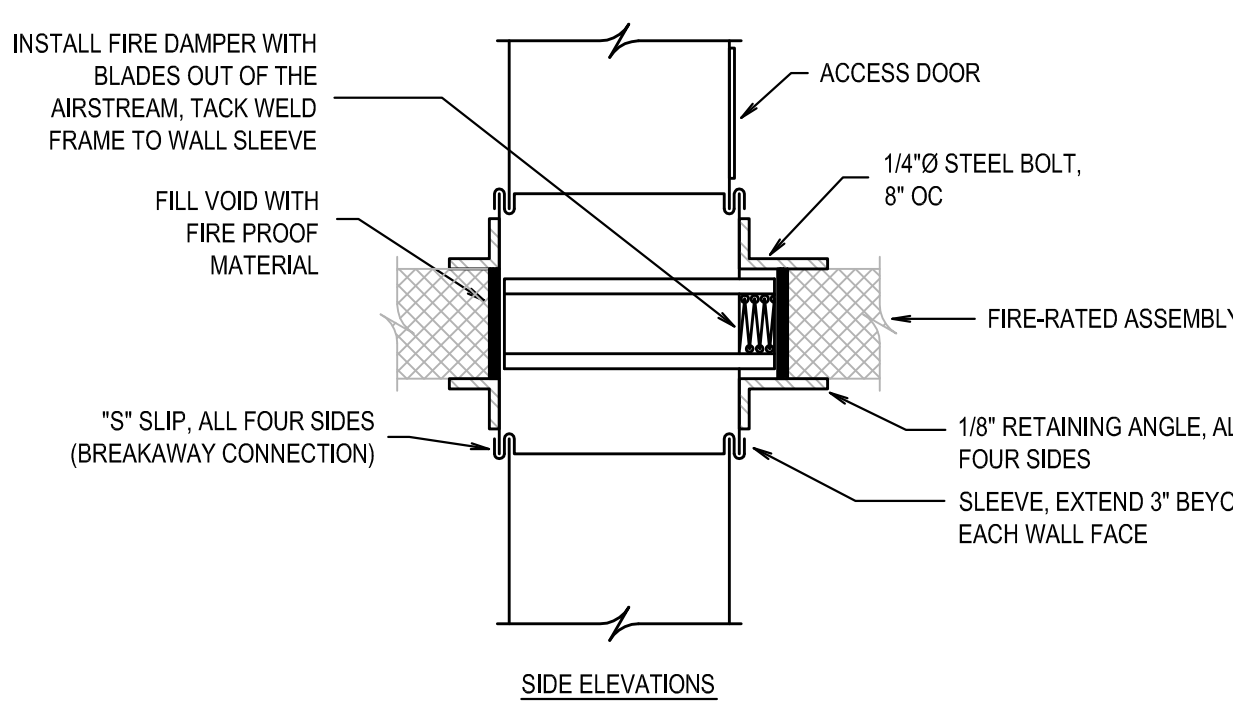


4 ROUND DUCT HANGER DETAILS

SCALE: NONE

NOTES:

1. SUPPORT MATERIALS AND FASTENERS SHALL BE OF SAME MATERIAL AS SUPPORTED DUCTWORK. HANGERS MUST NOT DEFORM DUCT SHAPE.

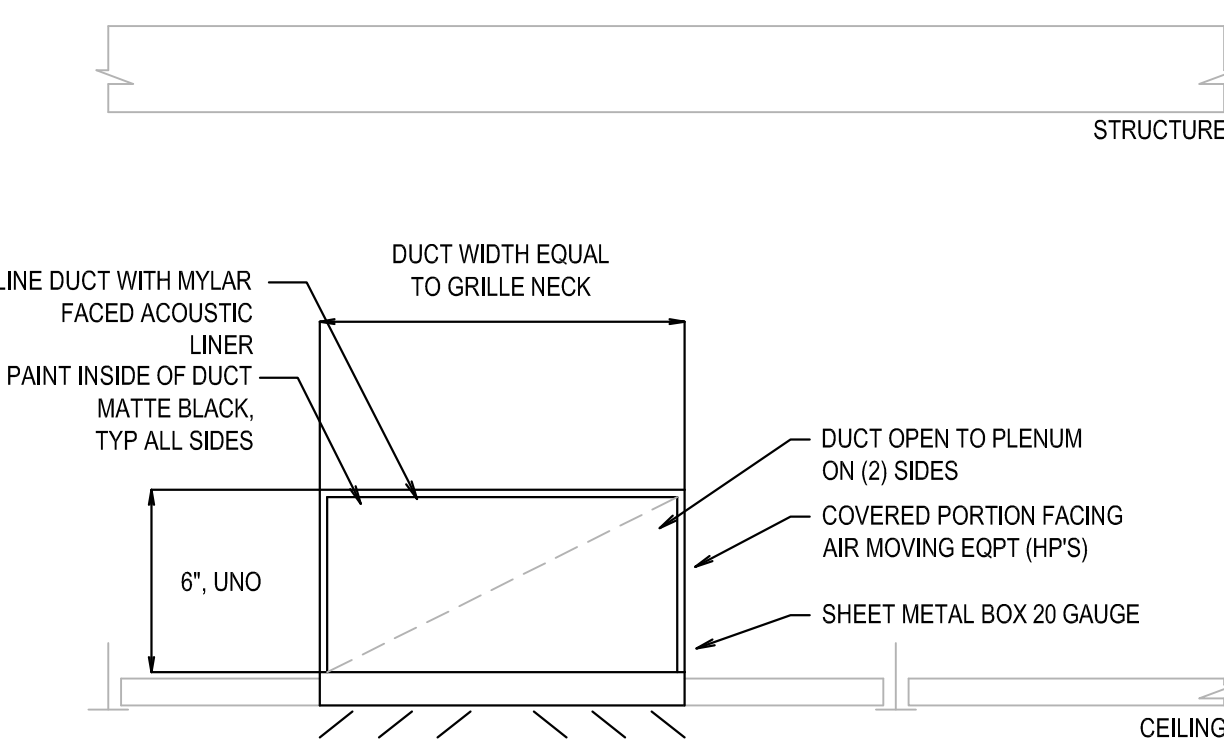


7 RECTANGULAR FIRE DAMPER DETAIL

SCALE: NONE

NOTES:

1. WALL SLEEVES NOT EXCEEDING 36"W X 24"H SHALL BE 16 GA. ALL LARGER SIZES SHALL BE 14 GA.
2. DETAILS SHOWN ARE BASED ON RUSKIN AND ARE INTENDED ONLY TO SHOW BASIC SIZE AND CONFIGURATION. REFER TO SPECIFICATIONS FOR TECH. REQUIREMENTS.
3. THIS TYPICAL FIRE DAMPER IS FOR GENERIC GUIDANCE ONLY. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER AND SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

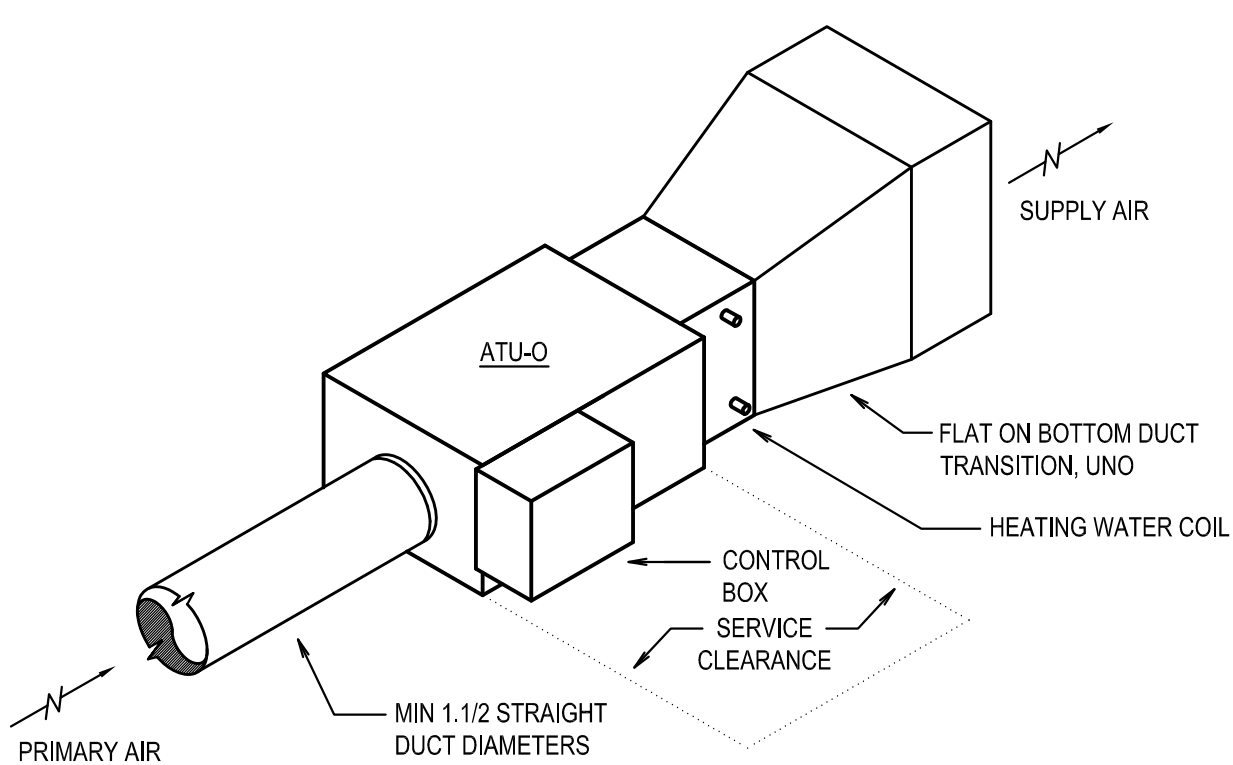


8 PLENUM CEILING RETURN GRILLE DETAIL

SCALE: NONE

NOTES:

1. PAINT VISIBLE AREAS ABOVE CEILING RETURN GRILLE MATTE BLACK.

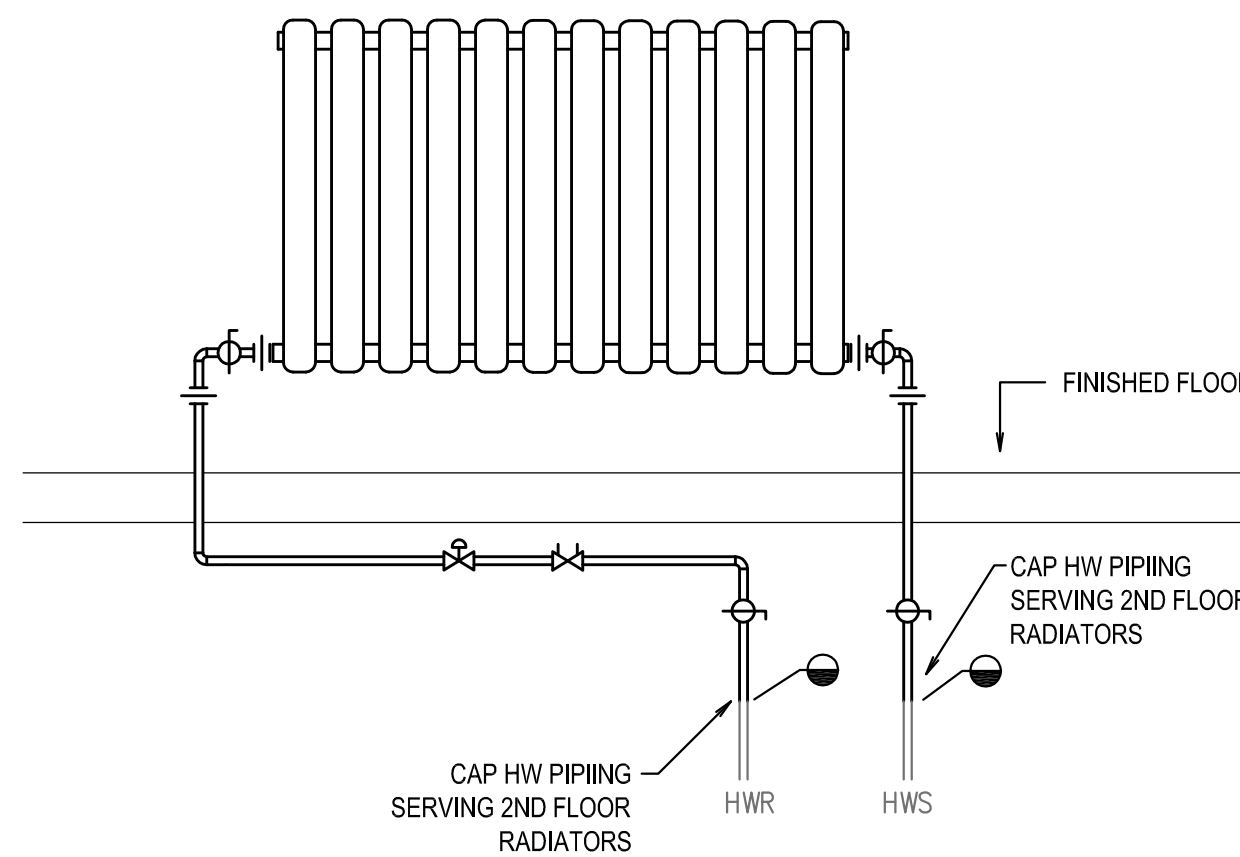


11 SHUT OFF ATU DETAIL

SCALE: NONE

NOTES:

1. REFER TO COIL PIPING DETAILS FOR HOT WATER COIL PIPING CONNECTIONS.
2. PROVIDE MIN 1-1/2 DUCT DIAMETERS STRAIGHT ROUND DUCT UPSTREAM OF ATU PRIMARY AIR INLET. DUCT SHALL BE SIZE OF INLET CONNECTION.
3. SUPPORT UNIT FROM STRUCTURE.



12 RADIATOR VALVE DETAIL

SCALE: NONE

NOTES:

1. TERMINATE PIPING A MINIMUM OF 6" BELOW UNDERSIDE OF SECOND FLOOR ASSEMBLY.

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SECOND FLOOR RENOVATIONS
OLSSON HALL; BUILDING NO. 0202

RECORD
DRAWINGS

DETAILS

DATE: 04/23/18
DRAWN BY: CJP/BNM
CHECKED BY: PMM
REVISIONS

PROJECT NUMBER
P04406

M0.2

SHEET