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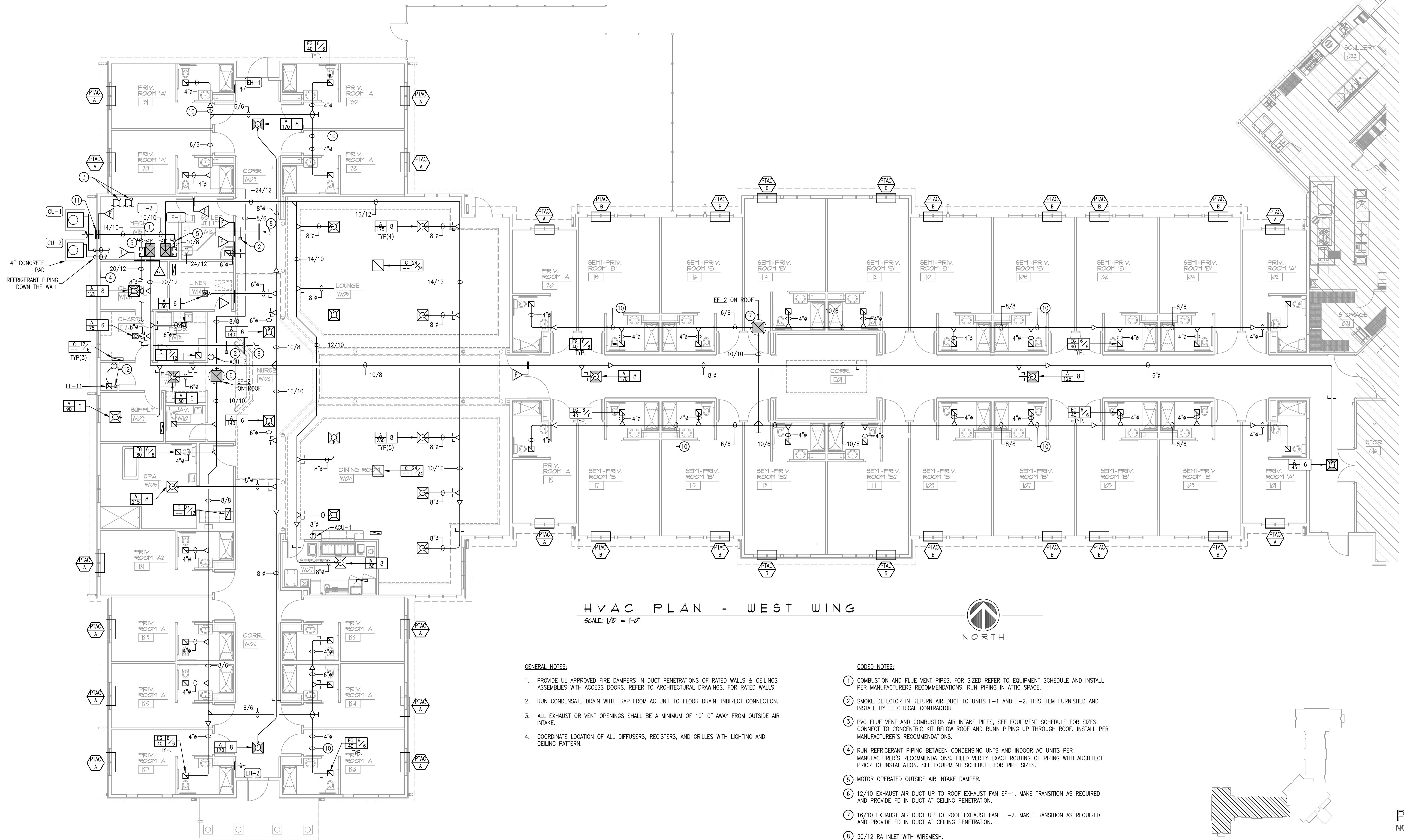
DATE:  
PRICING SET:  
03/11/24

NEW 90 BED SKILLED NURSING FACILITY  
SMITH MOUNTAIN LAKE HEALTH & REHAB CENTER  
STATE RTE 616  
MONETA, FRANKLIN COUNTY, VIRGINIA

PRELIMINARY  
NOT FOR CONSTRUCTION

DSCA PROJECT NO.  
23.046

M.I.



HVAC PLAN - WEST WING

SCALE: 1/8" = 1'-0"



GENERAL NOTES:

1. PROVIDE UL APPROVED FIRE DAMPERS IN DUCT PENETRATIONS OF RATED WALLS & CEILINGS ASSEMBLIES WITH ACCESS DOORS. REFER TO ARCHITECTURAL DRAWINGS. FOR RATED WALLS.
2. RUN CONDENSATE DRAIN WITH TRAP FROM AC UNIT TO FLOOR DRAIN, INDIRECT CONNECTION.
3. ALL EXHAUST OR VENT OPENINGS SHALL BE A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKE.
4. COORDINATE LOCATION OF ALL DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING AND CEILING PATTERN.

CODED NOTES:

- ① COMBUSTION AND FLUE VENT PIPES, FOR SIZED REFER TO EQUIPMENT SCHEDULE AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. RUN PIPING IN ATTIC SPACE.
- ② SMOKE DETECTOR IN RETURN AIR DUCT TO UNITS F-1 AND F-2. THIS ITEM FURNISHED AND INSTALL BY ELECTRICAL CONTRACTOR.
- ③ PVC FLUE VENT AND COMBUSTION AIR INTAKE PIPES, SEE EQUIPMENT SCHEDULE FOR SIZES. CONNECT TO CONCENTRIC KIT BELOW ROOF AND RUNN PIPING UP THROUGH ROOF. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ④ RUN REFRIGERANT PIPING BETWEEN CONDENSING UNITS AND INDOOR AC UNITS PER MANUFACTURER'S RECOMMENDATIONS. FIELD VERIFY EXACT ROUTING OF PIPING WITH ARCHITECT PRIOR TO INSTALLATION. SEE EQUIPMENT SCHEDULE FOR PIPE SIZES.
- ⑤ MOTOR OPERATED OUTSIDE AIR INTAKE DAMPER.
- ⑥ 12/10 EXHAUST AIR DUCT UP TO ROOF EXHAUST FAN EF-1. MAKE TRANSITION AS REQUIRED AND PROVIDE FD IN DUCT AT CEILING PENETRATION.
- ⑦ 16/10 EXHAUST AIR DUCT UP TO ROOF EXHAUST FAN EF-2. MAKE TRANSITION AS REQUIRED AND PROVIDE FD IN DUCT AT CEILING PENETRATION.
- ⑧ 30/12 RA INLET WITH WIREMESH.
- ⑨ 28/12 RA INLET WITH WIREMESH.
- ⑩ RUN EXHAUST DUCTWORK IN DROPPED CEILING.
- ⑪ 24/16 OA INTAKE LOUVER, 800 CFM.
- ⑫ RUN 6" EXHAUST DUCT UP TO ATTIC SPACE AND OPEN-ENDED WITH WIREMESH.



KEY PLAN  
1/16"=1'-0"

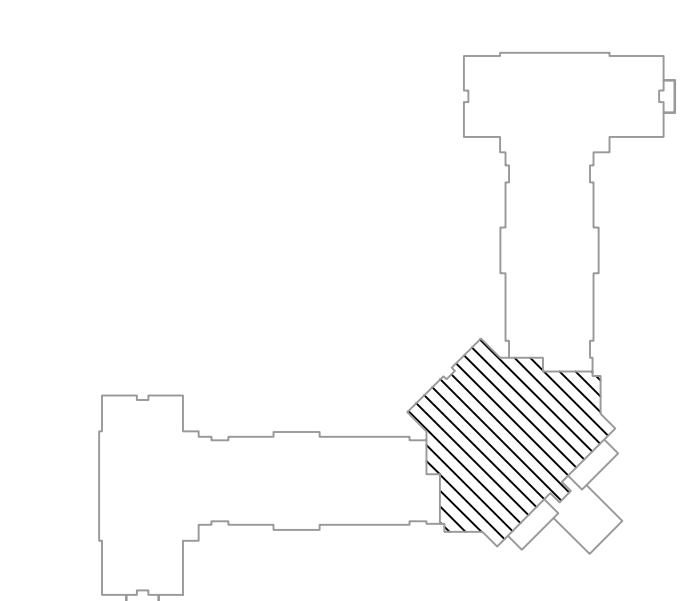


**GENERAL NOTES:**

1. PROVIDE UL APPROVED FIRE DAMPERS IN DUCT PENETRATIONS OF RATED WALLS & CEILINGS ASSEMBLIES WITH ACCESS DOORS. REFER TO ARCHITECTURAL DWGS. FOR RATED WALLS.
2. RUN CONDENSATE DRAIN WITH TRAP FROM AC UNIT TO FLOOR DRAIN, INDIRECT CONNECTION.
3. ALL EXHAUST OR VENT OPENINGS SHALL BE A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKE.
4. COORDINATE LOCATION OF ALL DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING AND CEILING PATTERN.

**CODED NOTES:**

- ① 24/12 SA AND RA DUCTS UP TO RTU-1 ON ROOF. MAKE TRANSITION AS REQUIRED AND PROVIDE FLEXIBLE CONNECTION AT UNIT INLET.
- ② 22/12 SA AND RA DUCTS UP TO RTU-2 ON ROOF. MAKE TRANSITION AS REQUIRED AND PROVIDE FLEXIBLE CONNECTION AT UNIT INLET.
- ③ 30/12 SA AND RA DUCTS UP TO RTU-3 ON ROOF. MAKE TRANSITION AS REQUIRED AND PROVIDE FLEXIBLE CONNECTION AT UNIT INLET.
- ④ 34/12 SA AND RA DUCTS UP TO RTU-4 ON ROOF. MAKE TRANSITION AS REQUIRED AND PROVIDE FLEXIBLE CONNECTION AT UNIT INLET.
- ⑤ SMOKE DETECTOR IN RA DUCT FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ⑥ 8/6 EXHAUST AIR DUCT UP TO ROOF EXHAUST FAN EF-3. MAKE TRANSITION AS REQUIRED AND PROVIDE FD IN DUCT AT CEILING PENETRATION.
- ⑦ 10/8 EXHAUST AIR DUCT UP TO ROOF EXHAUST FAN EF-4. MAKE TRANSITION AS REQUIRED AND PROVIDE FD IN DUCT AT CEILING PENETRATION.
- ⑧ 18/12 EXHAUST AIR DUCT UP TO ROOF EXHAUST FAN EF-7. MAKE TRANSITION AS REQUIRED.
- ⑨ 8/6 EXHAUST AIR DUCT UP TO ROOF EXHAUST FAN EF-8. MAKE TRANSITION AS REQUIRED.
- ⑩ 24/10 SA DUCT DOWN, 513 CFM EA. (TYP. OF 4). CONNECT TO KITCHEN HOOD INLET.
- ⑪ 16" EXHAUST DUCT DOWN, 2625 CFM, CONNECT TO KITCHEN HOOD OUTLET.
- ⑫ 10" EXHAUST DUCT DOWN, 600 CFM, CONNECT TO DISHWASHER HOOD OUTLET.
- ⑬ 6/6 EG, 75 CFM.
- ⑭ 8" DRYER EXHAUST UP THRU ROOF INSTALL IN-LINE DUCT MOUNTED LINT STOPPER ENERGENTICS GRIP MODEL AF-1-5 (SELF-CLEANING), 8" INLET AND 10" OUTLET AND RUN 10" EXHAUST DUCT UP THRU ROOF AND TERMINATE WITH GOOSENECK ABOVE ROOF.
- ⑮ 4" DRYER EXHAUST THRU ROOF AND TERMINATE ABOVE ROOF WITH VENT CAP.
- ⑯ OUTSIDE AIR INTAKE LOREN COOK MODEL GI THROAT AREA 16/18 (2 SQ. FT.) 29/36 HOOD WITH BIRDSCREEN. COMPLETE WITH ROOF CURB, BIRDSCREEN AND MOTORIZED DAMPERS. RUN 18/16 SUPPLY AIR DUCT. OPEN ENDED WITH BIRD SCREEN. INTERLOCK DRYERS WITH MOTORIZED DAMPER. DAMPER SHALL OPEN WHENEVER ONE DRYER IS OPERATING.
- ⑰ 18/10 TRANSFER AIR OPENING WITH FD ABOVE CEILING.
- ⑱ 40/14 RA INLET WITH WIRE MESH SCREEN.
- ⑲ 12/8 RAG IN WALL ABOVE CEILING. PROVIDE ONE ON EACH SIDE OF WALL.
- ⑳ 28/12 RA INLET INTAKE W/WIRE MESH SCREEN.



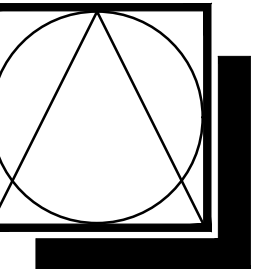
**KEY PLAN**  
 1/16"=1'-0"

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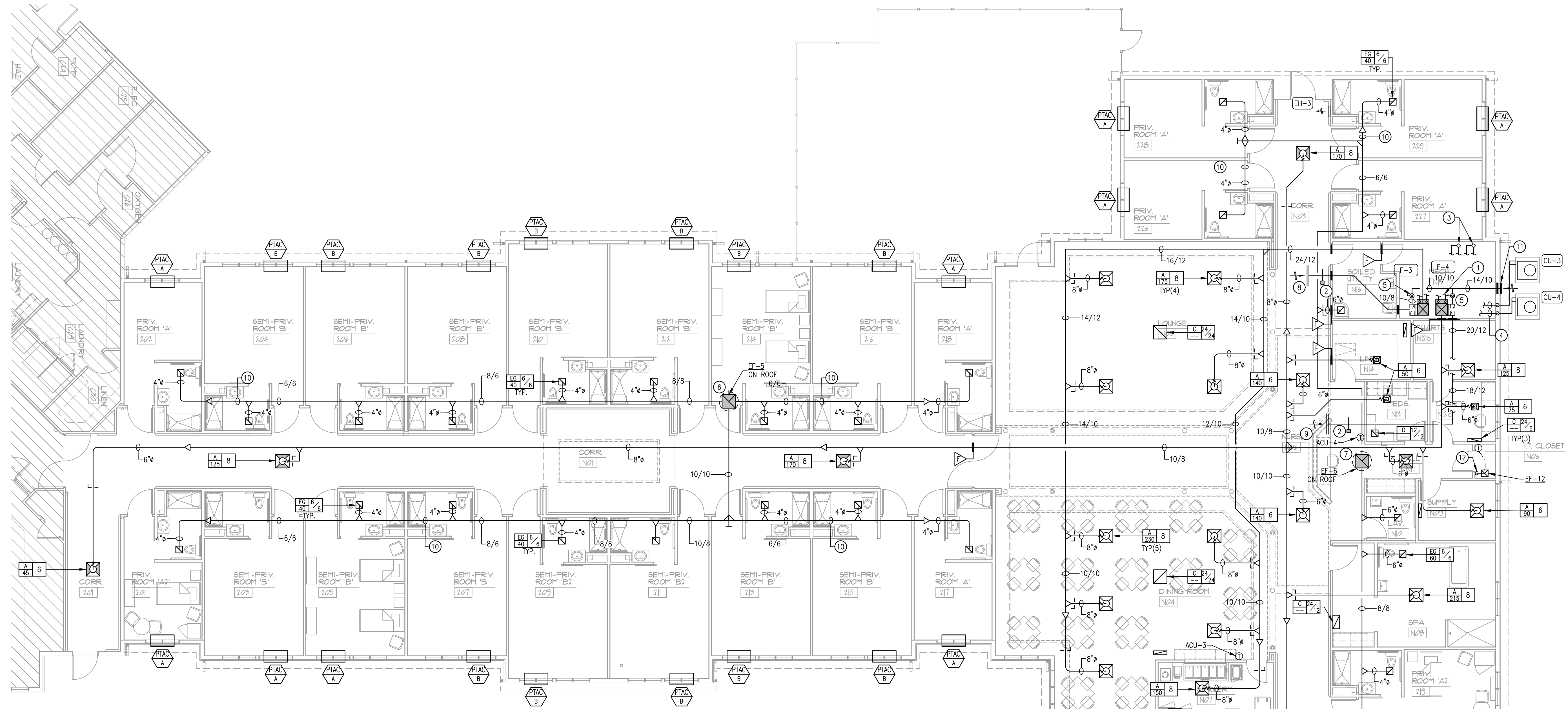
**HVAC PLAN - CENTER**  
 SCALE: 1/8" = 1'-0"





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**HVAC PLAN - NORTH WING**

SCALE: 1/8" = 1'-0"

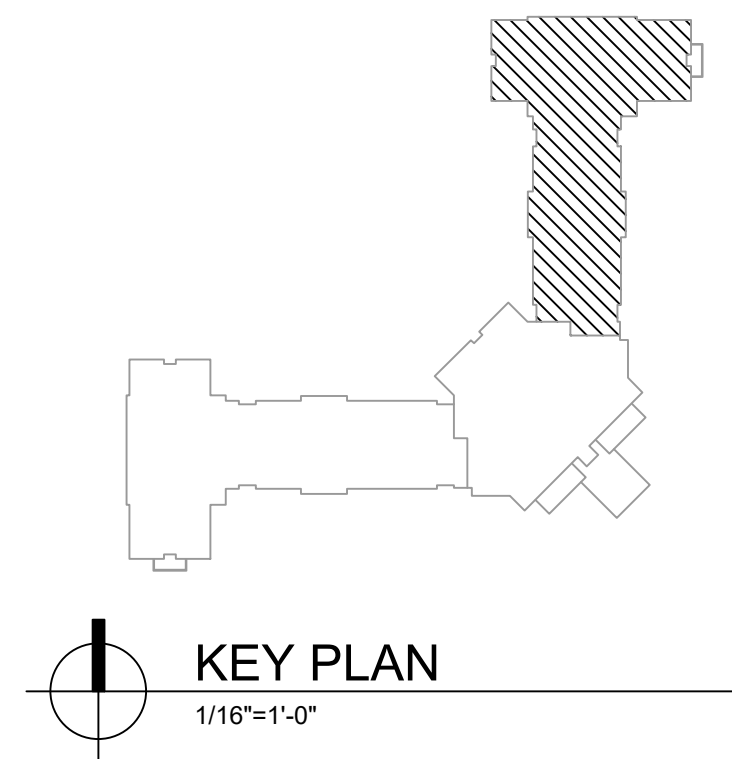


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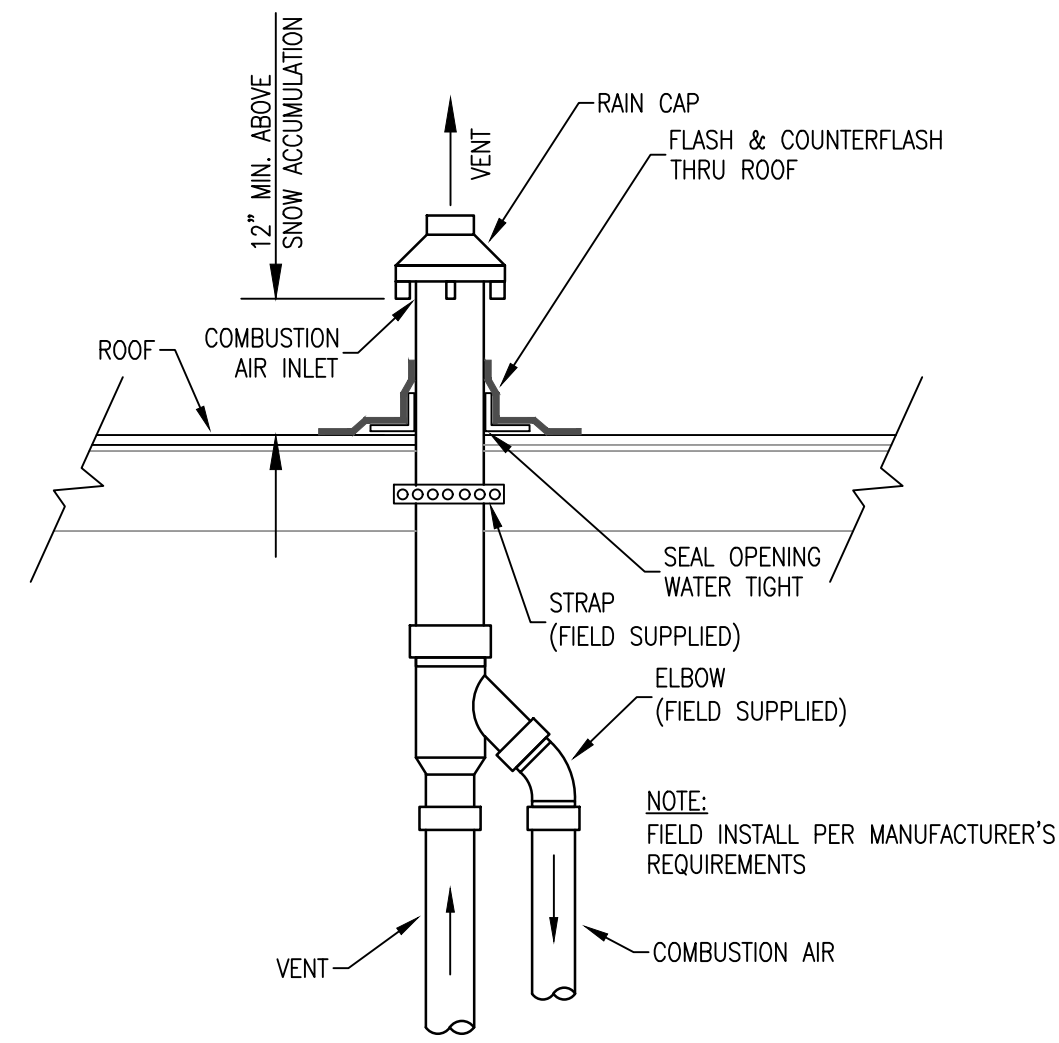


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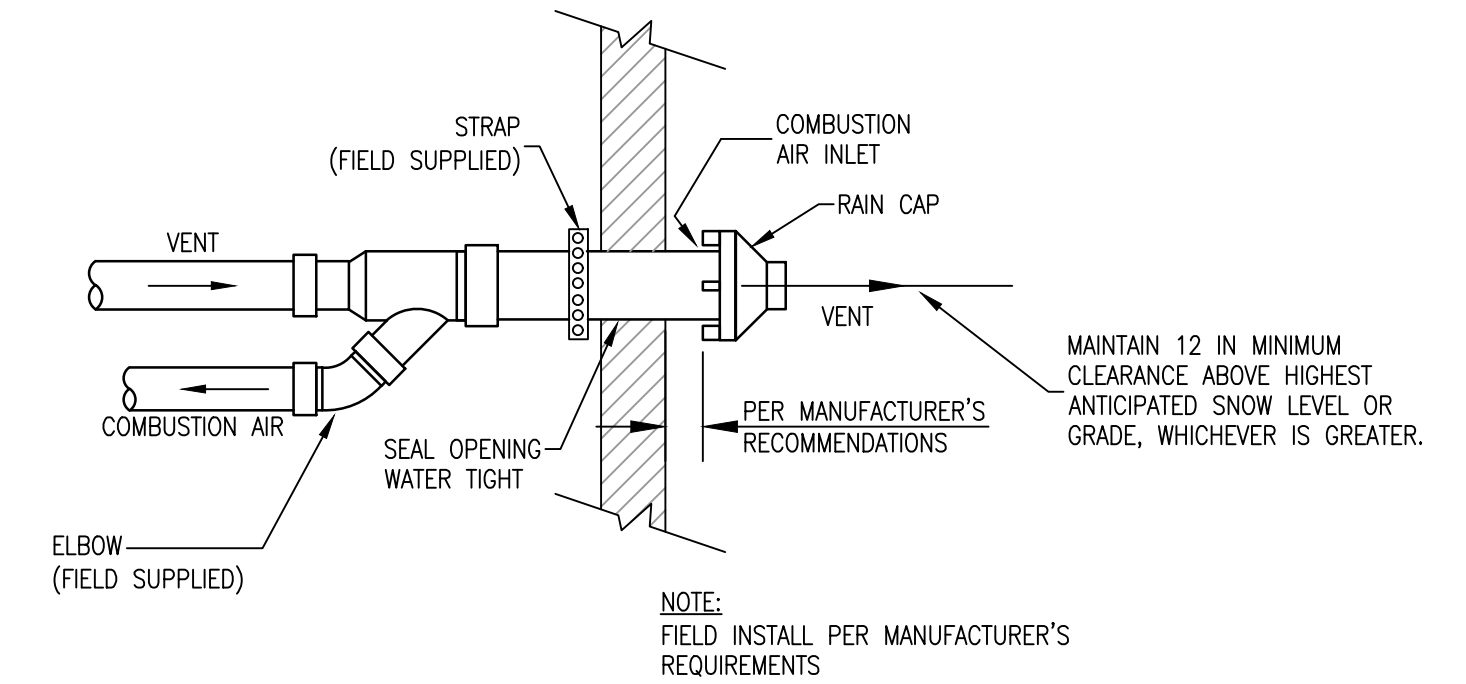
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DSCA PROJECT NO.  
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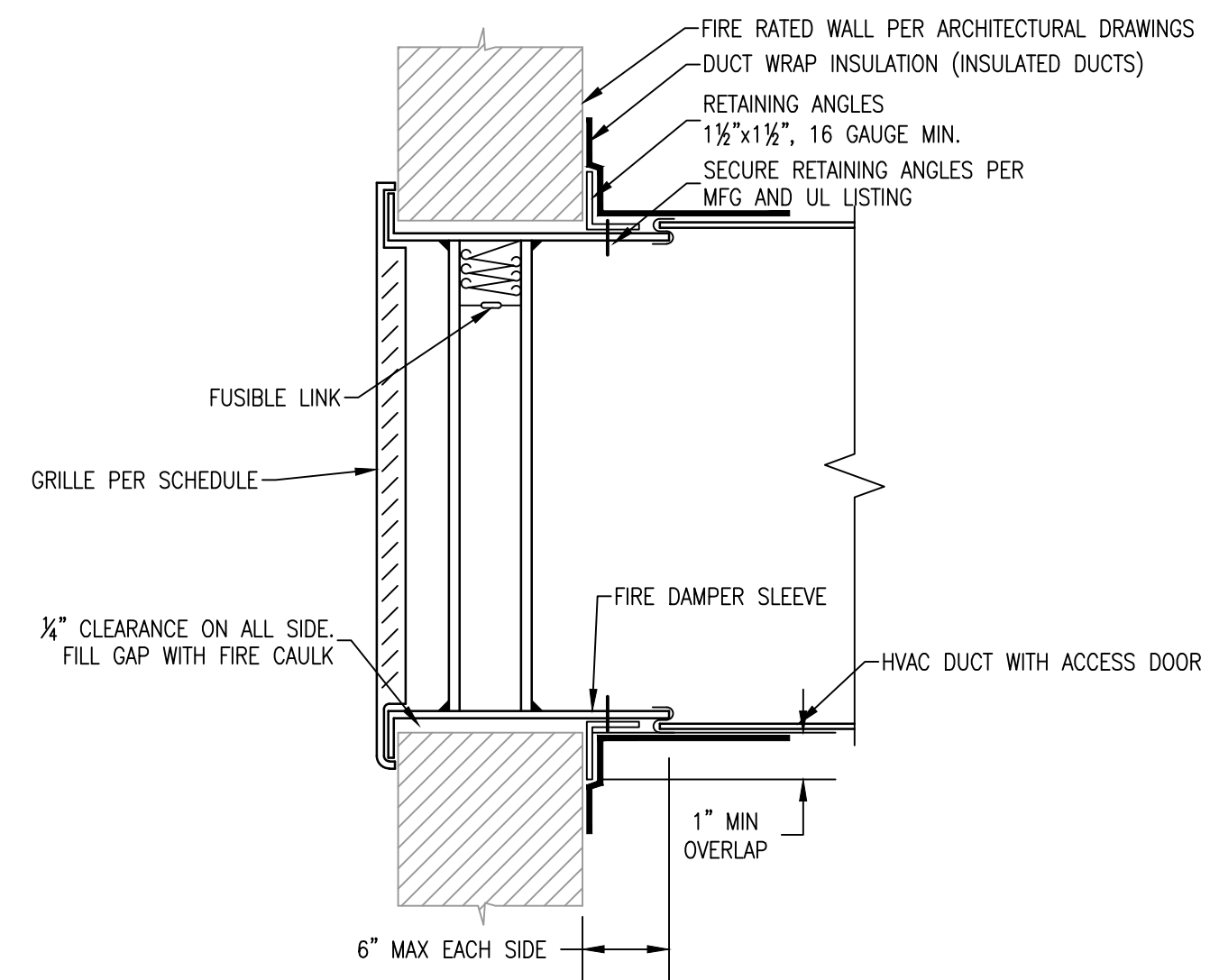
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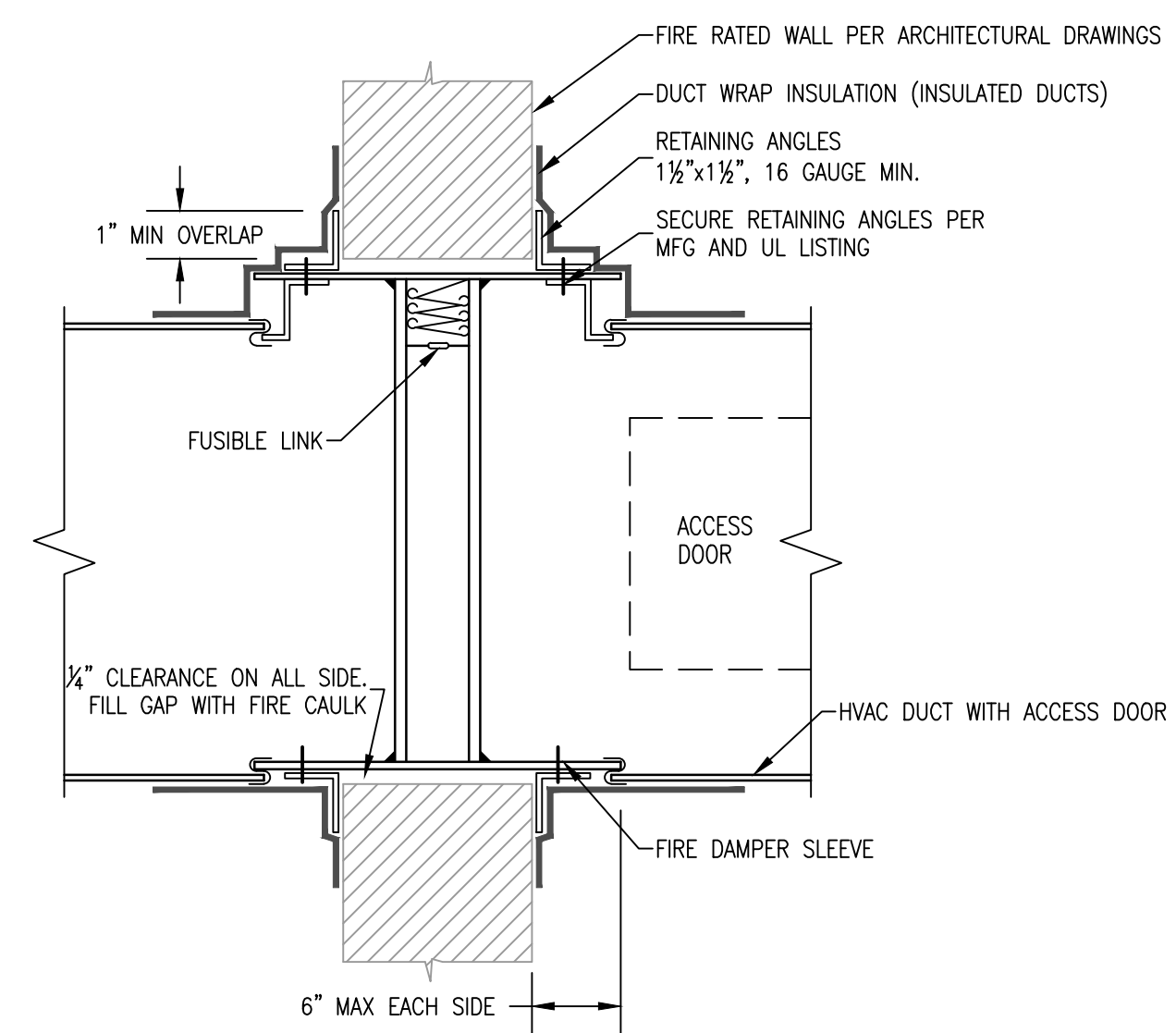
**1** CONCENTRIC VENTING THROUGH ROOF - DETAIL  
 Scale: NTS



**2** CONCENTRIC VENTING THROUGH WALL - DETAIL  
 Scale: NTS



**3** FIRE DAMPER WITH GRILLE (VERTICAL MOUNTING)  
 Scale: NTS



**4** FIRE DAMPER VERTICAL MOUNTING  
 Scale: NTS



