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Commercial, Office, Retail, Restaurant, Real Estate Development

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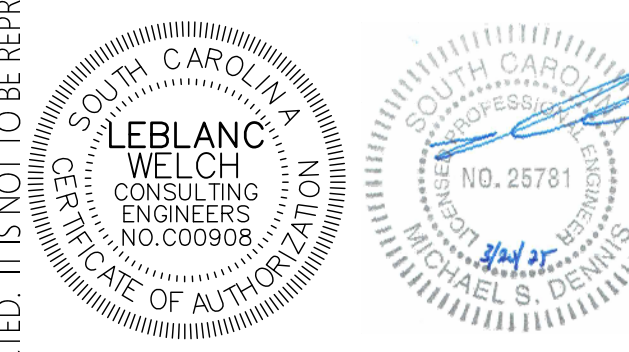
ELECTRICAL
Matrix Engineering, INC
912 S Pine Street
Spartanburg, SC 29302
864.583.6274

Project Title:
**HOME 2 SUITES
GREENWOOD SC**
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:



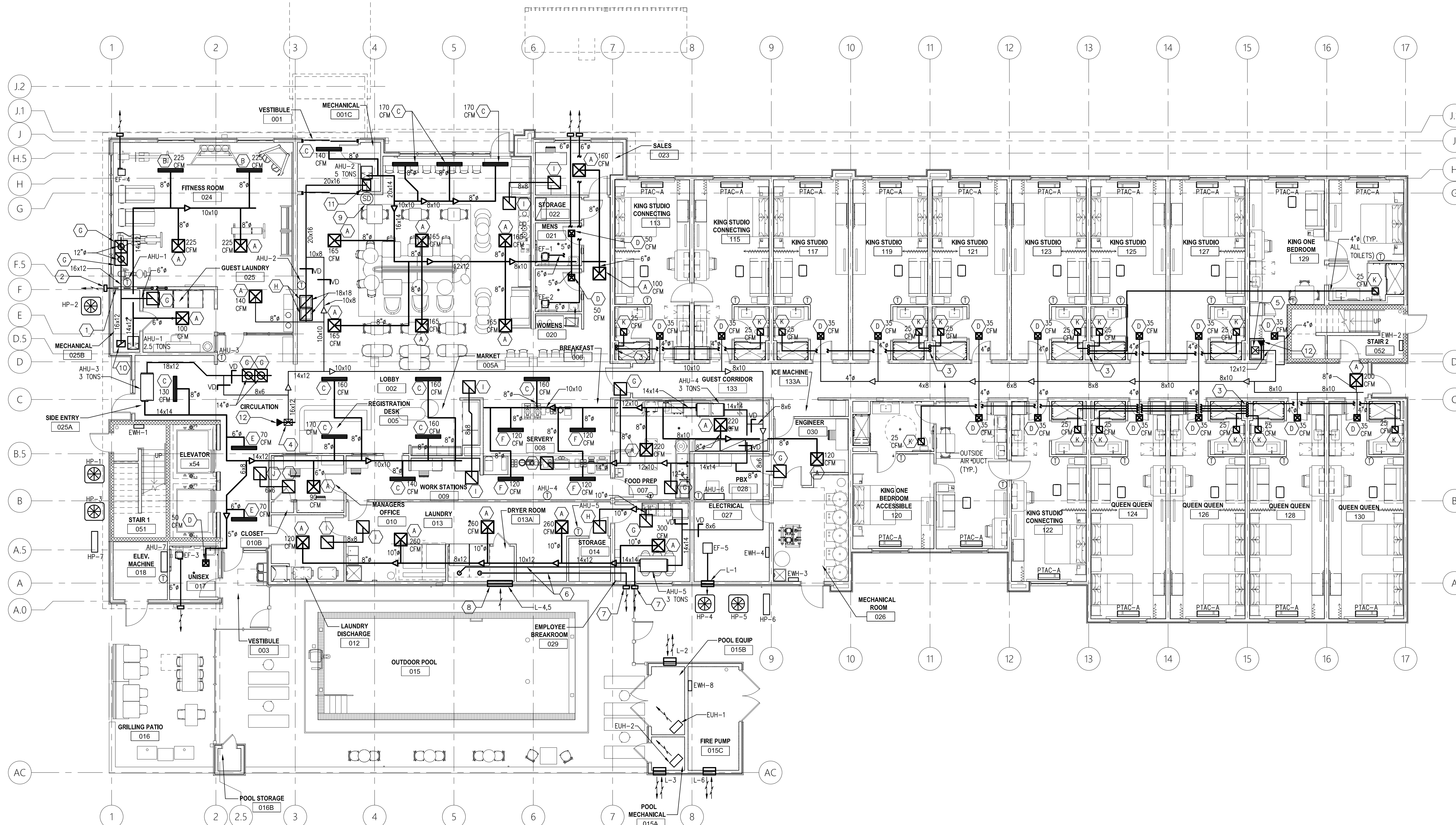
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Sheet Number:
M-101
Sheet Title:
FIRST FLOOR HVAC PLAN



KEY NOTES (THIS SHEET ONLY)

- 1 ROUTE DRYER VENT PER CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS.
- 2 DRYER WALL DISCHARGE.
- 3 EXHAUST DUCT TURN UP IN EXHAUST SHAFT A MINIMUM OF 22'.
- 4 16x12 FROM SECOND FLOOR. SEE SECOND FLOOR PLAN ON DRAWING M-102 FOR CONTINUATION ABOVE.
- 5 12x12 FROM SECOND FLOOR. SEE SECOND FLOOR PLAN ON DRAWING M-102 FOR CONTINUATION ABOVE.
- 6 ROUTE DRYER VENT TO BUILDING EXTERIOR PER CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS. SIZE AND DUCT MATERIAL SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS. COORDINATE WITH DRYER MANUFACTURER ALLOWABLE DISTANCE TO EXTERIOR.
- 7 DRYER MANUFACTURER WALL DISCHARGE FOR DRYER VENT. COORDINATE EXACT LOCATION OF DRYER VENT DISCHARGE WITH OWNER AND ARCHITECT. DRYER VENT SHALL NOT BE A NUISANCE.
- 8 PROVIDE TWO COMBUSTION AIR LOUVERS FOR GAS FIRED DRYERS. PROVIDE ONE LOUVER WITHIN 12" OF BOTTOM OF CEILING AND THE OTHER WITHIN 12" OF THE FLOOR. PROVIDE A MOTORIZED DAMPER AT EACH LOUVER. DAMPERS ARE TO BE INTERLOCKED WITH DRYERS. WHEN DRYERS ARE OPERATING, THE LOUVERS WILL BE OPEN. WHEN THE DRYERS ARE NOT OPERATING, THE LOUVERS WILL BE CLOSED. LOUVER SIZE IS PRELIMINARY AND MUST BE ADJUSTED TO ACTUAL DRYER BTUH'S.
- 9 INSTALL DUCT SMOKE DETECTOR PER CODE REQUIREMENTS.
- 10 16x12 RETURN DUCT DOWN. CONNECT TO PLENUM ON BOTTOM OF AHU-1.
- 11 20x16 RETURN DUCT DOWN. CONNECT TO PLENUM ON BOTTOM OF AHU-2.
- 12 PROVIDE FIRE SMOKE DAMPER. COORDINATE WITH ELECTRICIAN/BUILDING CONTROLS CONTRACTOR TO TIE INTO FIRE ALARM SYSTEM.

DIFFUSER LOCATION NOTE:
COORDINATE EXACT LOCATION OF ALL SUPPLY, RETURN, EXHAUST, AND TRANSFER DIFFUSERS AND GRILLES WITH ARCHITECTURAL RCP. SEE ARCHITECTURAL DRAWINGS.

CONDENSATE DRAINAGE NOTE (AHU-1,2,3,4,5,6,7):
ROUTE CONDENSATE DRAINAGE FROM AHU-1,2,3,4,5,6 & 7 TO NEAREST FLOOR DRAIN, FLOOR SINK, JANITOR'S SINK (SEE PLUMBING DRAWINGS) OR TO DRY WELL OUTSIDE THE BUILDING PER CODE REQUIREMENTS. SLOPE CONDENSATE DRAIN PIPING A MINIMUM OF 1/8" PER FOOT TOWARD DRAIN.

CONDENSATE DRAINAGE NOTE (PTAC-A):
PROVIDE OVERFLOW DRAIN PAN WITH WATER SENSOR SWITCH PER LOCAL CODE. PROVIDE INSULATED CONDENSATE DRAIN LINE WITH POSITIVE SLOPE TO OUTSIDE WALL OR WHERE SPECIFIED ON THESE DRAWINGS. DROP IN NON LOAD BEARING WALL TO 6" ABOVE FIRST FLOOR - TURN OUTSIDE & CONNECT TO DRYWELL PER DETAIL 6 ON DRAWING M-108. DRYWELL AND PIPING NOT SHOWN. PROVIDE DRYWELLS AS NECESSARY FOR ALL CONDENSATE COLLECTION. LOCATE DRYWELLS PER G.C. COORDINATE EXACT NUMBER OF DRYWELLS WITH EXISTING SITE CONDITIONS. PROVIDE CLEANOUT IN CEILING PRIOR TO TURN DOWN IN WALL. PROVIDE ACCESS PANEL IF CLEANOUT IS ABOVE HARD CEILING. UP TO TWO PTAC'S ALLOWED TO SHARE ONE COMMON CONDENSATE BRANCH PER FLOOR. ALTERNATE IS TO PIPE EACH CONDENSATE RISER TO STORM DRAINAGE SYSTEM. COORDINATE WITH CIVIL AND LOCAL CODE OFFICIALS.

OUTSIDE AIR INTAKE NOTE:
LOCATE ALL OUTSIDE AIR INTAKES AT LEAST 10 FT. AWAY FROM EXHAUST AIR DISCHARGE.

BALANCING DAMPER NOTE:
PROVIDE A BALANCING DAMPER (VD) ON THE OUTSIDE AIR CONNECTION AND THE RETURN AIR CONNECTION FOR AHU-2,3,4 AND 5. PROVIDE A BALANCING DAMPER (VD) IN EACH DIFFUSER BRANCH AND AS SHOWN ON THIS PLAN. INSTALL A DAMPER IN EACH EXHAUST BRANCH (TYP FOR EACH GUEST ROOM). SEE DETAILS ON DWG. M-107. LOCATE ALL DAMPERS IN ACCESSIBLE LOCATIONS.

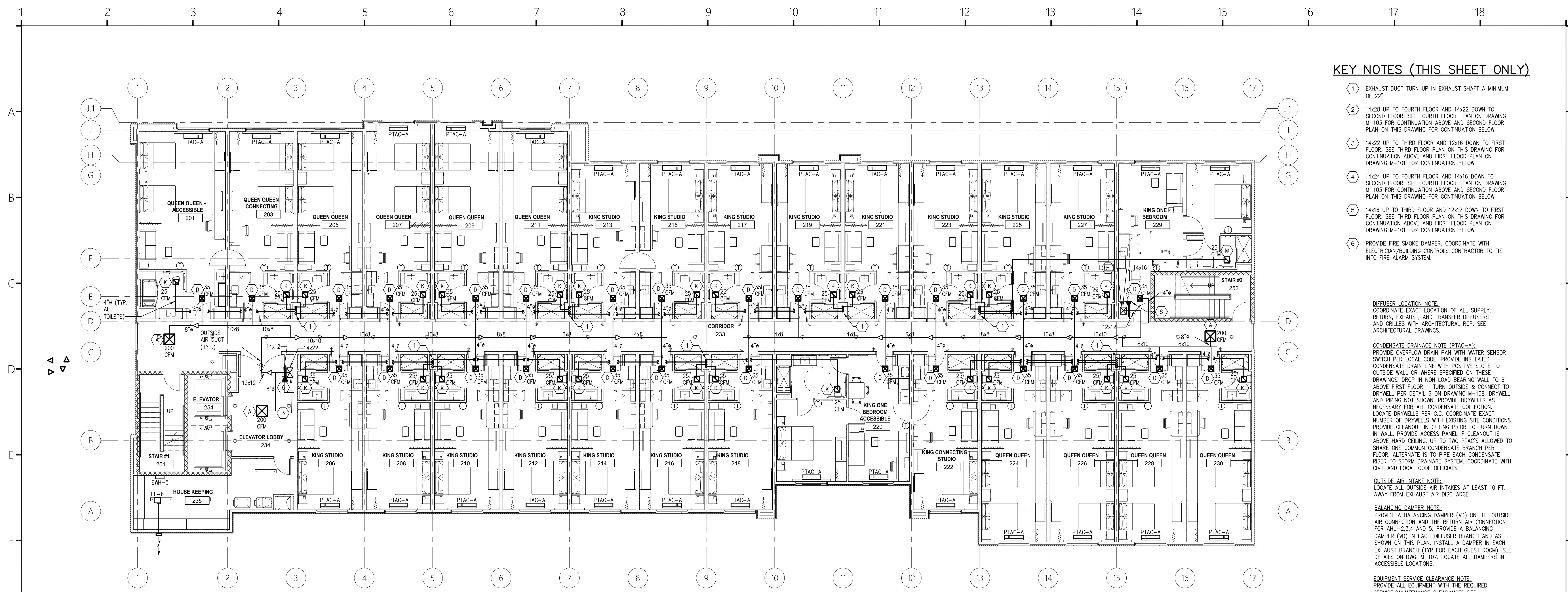
EQUIPMENT SERVICE CLEARANCE NOTE:
PROVIDE ALL EQUIPMENT WITH THE REQUIRED SERVICE/MAINTENANCE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.

AIR HANDLING UNIT NOTE:
MOUNT AIR HANDLING UNITS (AHU-1,2) IN THE VERTICAL POSITION ON A STAND WITH THE RETURN CONNECTION LOCATED ON THE BOTTOM OF THE UNIT. PROVIDE A RETURN AIR PLENUM ON BOTTOM OF UNIT. INCLUDE A FILTER RACK. MOUNT AIR HANDLING UNITS (AHU-3,4,5) IN THE HORIZONTAL POSITION ABOVE THE CEILING.

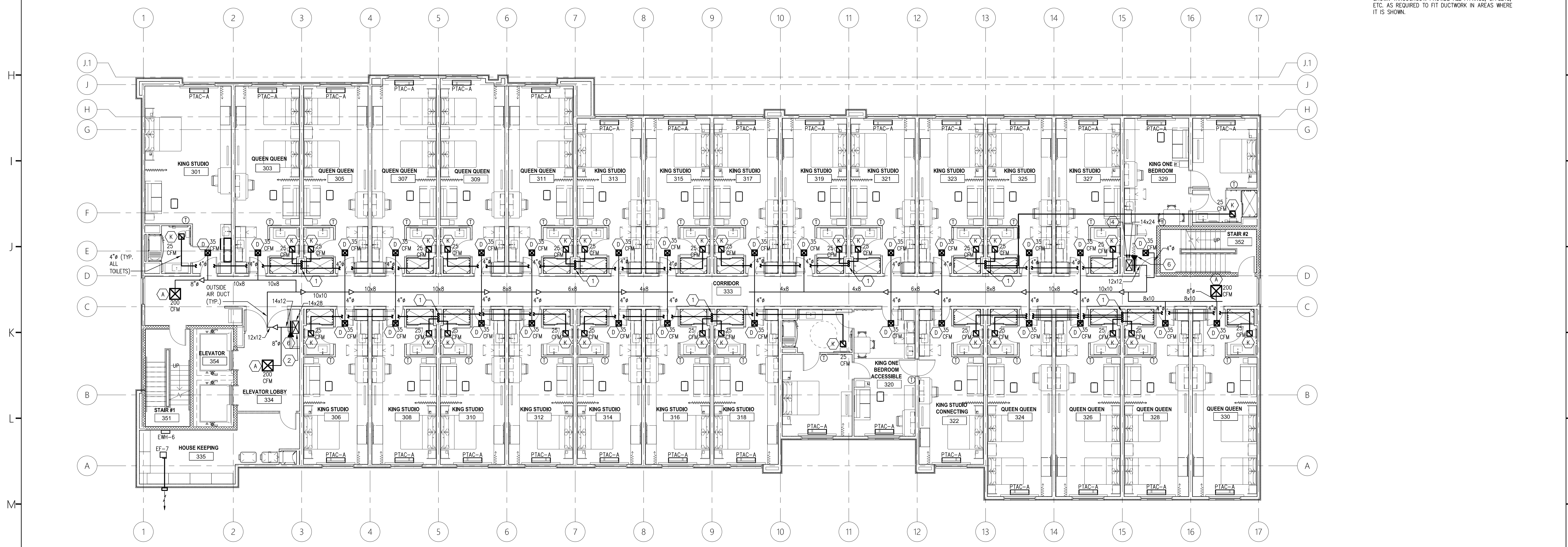
GENERAL DUCT ROUTING NOTE:
ALL DUCTWORK FITTINGS, OFFSETS, ETC. ARE NOT SHOWN THROUGHOUT. PROVIDE ALL FITTINGS, OFFSETS, ETC. AS REQUIRED TO FIT DUCTWORK IN AREAS WHERE IT IS SHOWN.

1 FIRST FLOOR HVAC PLAN

M-101 SCALE: 1/8"=1'-0"



1 SECOND FLOOR HVAC PLAN
M-102 SCALE: 1/8"=1'-0"



2 THIRD FLOOR HVAC PLAN
M-102 SCALE: 1/8"=1'-0"

KEY NOTES (THIS SHEET ONLY)

- ① EXHAUST DUCT TURN UP IN EXHAUST SHAFT A MINIMUM OF 2'.
- ② 14x28 UP TO FOURTH FLOOR AND 14x22 DOWN TO SECOND FLOOR. SEE FOURTH FLOOR PLAN ON DRAWING M-103 FOR CONTINUATION ABOVE AND SECOND FLOOR PLAN ON THIS DRAWING FOR CONTINUATION BELOW.
- ③ 14x22 UP TO THIRD FLOOR AND 12x16 DOWN TO FIRST FLOOR. SEE THIRD FLOOR PLAN ON THIS DRAWING FOR CONTINUATION ABOVE AND FIRST FLOOR PLAN ON DRAWING M-101 FOR CONTINUATION BELOW.
- ④ 14x24 UP TO FOURTH FLOOR AND 14x16 DOWN TO SECOND FLOOR. SEE FOURTH FLOOR PLAN ON DRAWING M-103 FOR CONTINUATION ABOVE AND SECOND FLOOR PLAN ON THIS DRAWING FOR CONTINUATION BELOW.
- ⑤ 14x16 UP TO THIRD FLOOR AND 12x12 DOWN TO FIRST FLOOR. SEE THIRD FLOOR PLAN ON THIS DRAWING FOR CONTINUATION ABOVE AND FIRST FLOOR PLAN ON DRAWING M-101 FOR CONTINUATION BELOW.
- ⑥ PROVIDE FIRE SMOKE DAMPER. COORDINATE WITH ELECTRICIAN/BUILDING CONTROLS CONTRACTOR TO TIE INTO FIRE ALARM SYSTEM.

DEFUSER LOCATION NOTE:
COORDINATE EXACT LOCATION OF ALL SUPPLY, RETURN, EXHAUST, AND TRANSFER DEFUSERS AND GRILLES WITH ARCHITECTURAL RCP. SEE ARCHITECTURAL DRAWINGS.

CONDENSATE DRAINAGE NOTE (PTAC-A):
PROVIDE OVERFLOW DRAIN PAN WITH WATER SENSOR SWITCH PER LOCAL CODE. PROVIDE INSULATED CONDENSATE DRAIN LINE WITH POSITIVE SLOPE TO OUTSIDE WALL OR WHERE SPECIFIED ON THESE DRAWINGS. DROP IN NON LOAD BEARING WALL TO 6" ABOVE FIRST FLOOR - TURN OUTSIDE & CONNECT TO DRYWELL PER DETAIL 6 ON DRAWING M-108. DRYWELL AND PIPING NOT SHOWN. PROVIDE DRYWELLS AS NECESSARY FOR ALL CONDENSATE COLLECTION. LOCATE DRYWELLS PER G.C. COORDINATE EXACT NUMBER OF DRYWELLS WITH EXISTING SITE CONDITIONS. PROVIDE CLEANOUT IN CEILING PRIOR TO TURN DOWN IN WALL. PROVIDE ACCESS PANEL IF CLEANOUT IS ABOVE HARD CEILING. UP TO TWO PTACS ALLOWED TO SHARE ONE COMMON CONDENSATE BRANCH PER FLOOR. ALTERNATE IS TO PIPE EACH CONDENSATE RISER TO STORM DRAINAGE SYSTEM. COORDINATE WITH CIVIL AND LOCAL CODE OFFICIALS.

OUTSIDE AIR INTAKE NOTE:
LOCATE ALL OUTSIDE AIR INTAKES AT LEAST 10 FT. AWAY FROM EXHAUST AIR DISCHARGE.

BALANCING DAMPER NOTE:
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EQUIPMENT SERVICE CLEARANCE NOTE:
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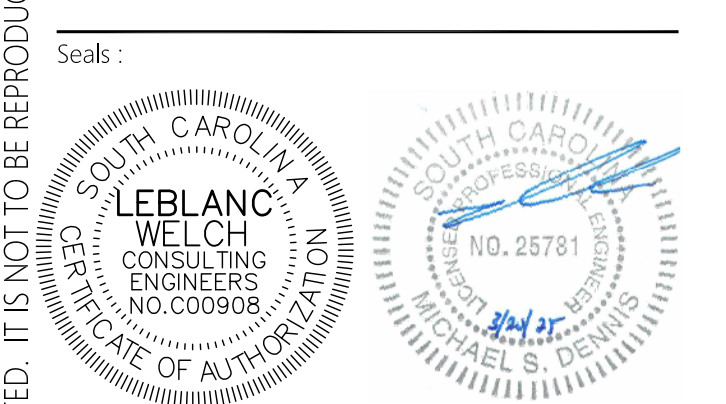
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A 03.20.2025 100% Issue For Hilton

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CD
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04.22.2024
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Sheet Number:
M-102
Sheet Title:
2ND & 3RD FLOOR HVAC PLAN

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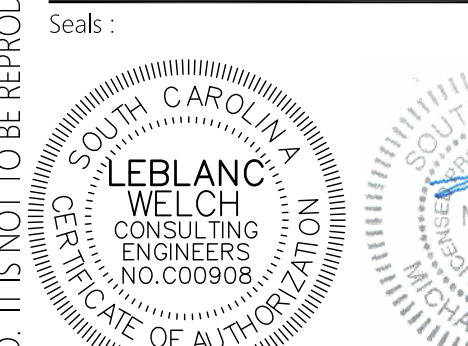
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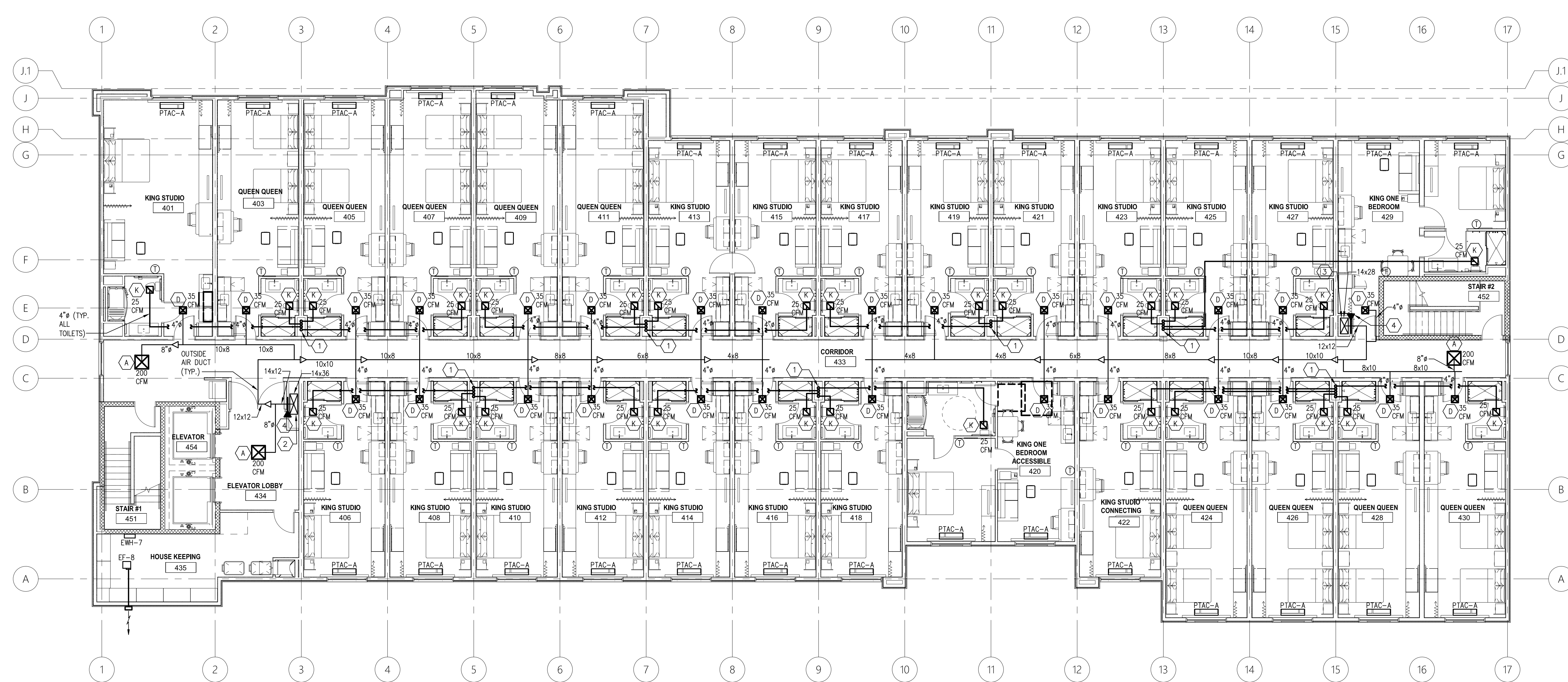
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Sheet Number:

M-103

Sheet Title:

4TH FLOOR HVAC PLAN



1 FOURTH FLOOR HVAC PLAN
M-103 SCALE: 1/8"=1'-0"

KEY NOTES (THIS SHEET ONLY)

- 1 EXHAUST DUCT TURN UP IN EXHAUST SHAFT A MINIMUM OF 22°.
- 2 14x36 UP TO MUA-1 ON ROOF AND 14x28 DOWN TO THIRD FLOOR. SEE THIRD FLOOR PLAN ON DRAWING M-102 FOR CONTINUATION BELOW.
- 3 14x28 UP TO MUA-2 ON ROOF AND 14x24 DOWN TO THIRD FLOOR. SEE THIRD FLOOR PLAN ON DRAWING M-102 FOR CONTINUATION BELOW.
- 4 PROVIDE FIRE SMOKE DAMPER. COORDINATE WITH ELECTRICIAN/BUILDING CONTROLS CONTRACTOR TO TIE INTO FIRE ALARM SYSTEM.

DIFFUSER LOCATION NOTE:
COORDINATE EXACT LOCATION OF ALL SUPPLY, RETURN, EXHAUST, AND TRANSFER DIFFUSERS AND GRILLES WITH ARCHITECTURAL RCP. SEE ARCHITECTURAL DRAWINGS.

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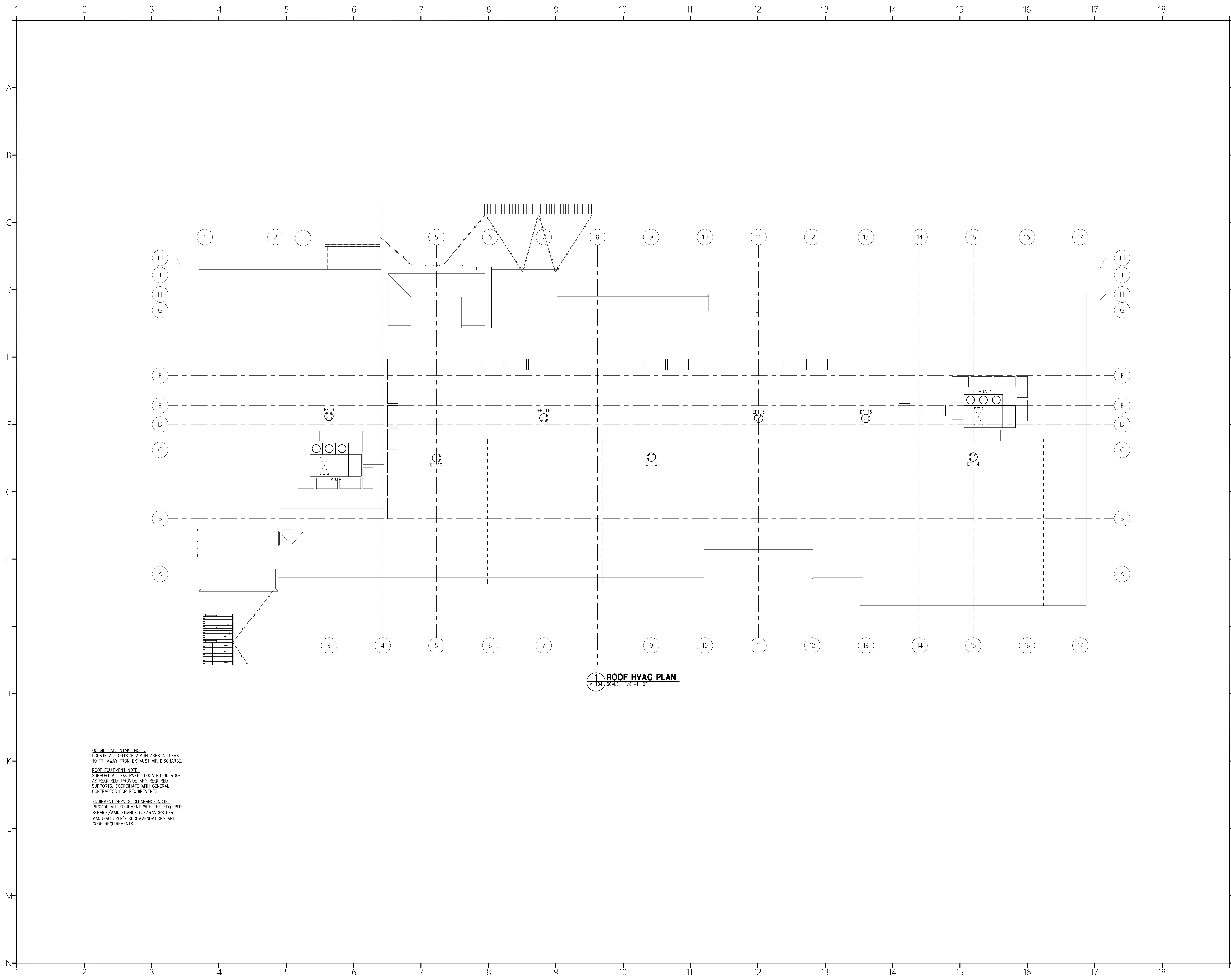
OUTSIDE AIR INTAKE NOTE:
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BALANCING DAMPER NOTE:
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EQUIPMENT SERVICE CLEARANCE NOTE:
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1 ROOF HVAC PLAN
 M-104 SCALE: 1/8"=1'-0"

OUTSIDE AIR INTAKE NOTE:
 LOCATE ALL OUTSIDE AIR INTAKES AT LEAST 10 FT. AWAY FROM EXHAUST AIR DISCHARGE.

ROOF EQUIPMENT NOTE:
 SUPPORT ALL EQUIPMENT LOCATED ON ROOF AS REQUIRED. PROVIDE ANY REQUIRED SUPPORTS. COORDINATE WITH GENERAL CONTRACTOR FOR REQUIREMENTS.

EQUIPMENT SERVICE CLEARANCE NOTE:
 PROVIDE ALL EQUIPMENT WITH THE REQUIRED SERVICE/MAINTENANCE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.



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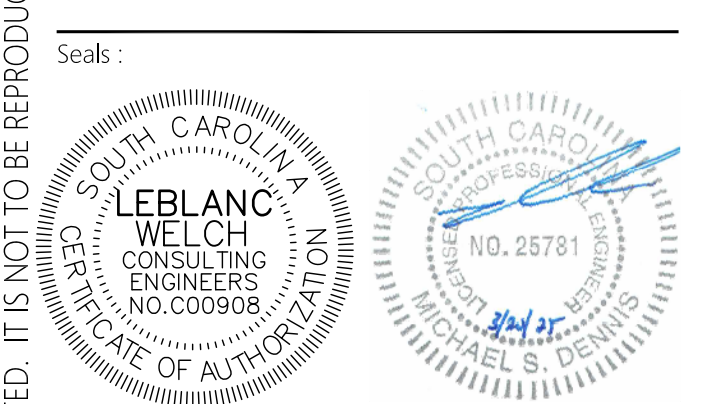
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 ROOF HVAC PLAN

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SPLIT SYSTEM HEAT PUMP SCHEDULE

Table with columns: UNIT NO., SUPPLY AIR CFM, OUTSIDE AIR CFM, E.S.P. IN W.G., INDOOR FAN H.P., INDOOR UNIT ELECTRICAL, INDOOR UNIT MCA, INDOOR UNIT MOPP, SYSTEM COOLING (NET), SYSTEM HEATING, AHU MODEL, OUTDOOR UNIT MODEL, OUTDOOR UNIT ELECTRICAL, OUTDOOR UNIT MCA, OUTDOOR UNIT MOPP, NOMINAL TONS, SEER, EER, REMARKS

ELECTRIC UNIT HTR. SCHEDULE

Table with columns: MARK, DESCRIPTION, VOLTS, PH, Hz, HEATING KW, TOTAL AMPS, BASIS OF DESIGN

ACCESSORIES: 1. LOW AMBIENT CONTROL. 2. HALL GUARDS. 3. PROVIDE SINGLE POINT CONNECTION. 4. FACTORY PROGRAMMABLE THERMOSTAT WITH CLEAR LOCKING COVER. 5. PROVIDE FILTER RACK WITH MERV-13 FILTER. NOTE: SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP A/C UNIT SCHEDULE IS BASED ON UNITS AS MANUFACTURED BY TRANE.

ELECTRIC WALL HTR. SCHEDULE

Table with columns: MARK, DESCRIPTION, VOLTS, PH, Hz, HEATING KW, AMPS, BASIS OF DESIGN

PACKAGED TERMINAL AIR CONDITIONING UNIT (PTAC) SCHEDULE

Table with columns: UNIT NO., MANUFACTURER/MODEL NO., FAN CFM, OUTSIDE AIR CFM, ESP (W/G), EER, COOLING CAPACITY MBH, HEATING CAPACITY MBH, AUXILIARY HEAT KW, UNIT ELECTRICAL, MCA, MOPP, COMMENTS

COMMENTS: 1. G.C. SHALL PROVIDE SUB-BASE KIT WITH DISCONNECT SWITCH FOR ALL PTAC'S. 2. SPEED FAN. 3. PROVIDE HONEYWELL 'INCOMM' THERMOSTATS (W/2 FAN SPEED CAPABILITY) FOR ALL GUESTROOM PTAC'S. 4. PROVIDE EXTENDED SLEEVE WHERE REQUIRED. VERIFY PRIOR TO ORDERING.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

Table with columns: INDOOR UNIT NO., QUANTITY, OUTDOOR UNIT NO., QUANTITY, INDOOR UNIT DATA, COOLING DATA, HEATING DATA, OUTDOOR UNIT DATA, MITSUBISHI MODEL NO., VOLTAGE, MCA, MOPP, REMARKS

REMARKS: 1. PROGRAMMABLE THERMOSTAT. 2. CONDENSATE PUMP. 3. PROVIDE LOW AMBIENT WIND BAFFLE. NOTE: SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. SIZES SHALL BE BASED ON INSTALLED PIPING DISTANCES FROM CONDENSING UNIT TO AIR HANDLING UNIT.

FAN SCHEDULE

Table with columns: MARK, AREA SERVED, TYPE, SERVICE, MANUFACTURER, MODEL NO., CAPACITY, HP, ELECTRICAL, OPERATING NOTES, COMMENTS

REMARKS: 1. PROVIDE WALL CAP. DISCONNECT SWITCH, BACKDRIFT DAMPER, AND SPEED CONTROLLER. 2. PROVIDE ROOF CURB, BACKDRIFT DAMPER, DISCONNECT SWITCH, AND VARI-GREEN MOTOR. 3. PROVIDE VARI GREEN MOTOR, ISOLATION KIT, MOUNTING BRACKETS, BACKDRIFT DAMPER, AND DISCONNECT. OPERATING NOTES: 1. INTERLOCK WITH LIGHTS. 2. INTERLOCK WITH AHU-1. 3. THERMOSTATICALLY CONTROLLED. 4. RUNS CONTINUOUSLY.

VENTILATION CALCULATION

Table with columns: AREA, SQ. FT., NET OCCUPIABLE AREA (SQ. FT.), OCCUPANTS, CFM PER SQ.FT., CFM PER OCC., REQ'D O.A. (CFM) (OCCUPANCY), REQ'D O.A. (CFM) (AREA), REQ'D O.A. TOTAL -YBZ (CFM) (OCCUPANCY + AREA), ACTUAL DESIGN O.A. (CFM), UNITS SERVED BY

100% OUTSIDE AIR UNIT SCHEDULE

Table with columns: UNIT NO., SUPPLY AIR CFM, OUTSIDE AIR CFM, E.S.P. IN W.G., INDOOR FAN H.P., ELECTRICAL, SYSTEM COOLING, GAS HEATING SECTION, REHEAT COIL, MANUFACTURER/MODEL NO., EER, WEIGHT LBS., ACCESSORIES

ACCESSORIES: 1. SEE EQUIPMENT SPECS ON DRAWING M-106. 2. PROVIDE MERV-8 PRE-FILTERS AND MERV-13 SECONDARY FILTERS. PROVIDE FULLY SYNTHETIC MEDIA WITH SPECIAL SUPPORTING STRUCTURE TO PREVENT MOISTURE LADEN FILTER COLLAPSE.

LOUVER SCHEDULE

Table with columns: MARK, SERVES, MANUFACTURER, MODEL NO., AIRFLOW CFM, MAX. PRESS. DROP IN. W.C., LOUVER SIZE WxH, FREE AREA SQ. FT., INTERLOCK WITH, COMMENTS

COMMENTS: 1. INSECT SCREEN. 2. PROVIDE MOTORIZED DAMPER ON BACK OF LOUVER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR DAMPER WIRING. THE DAMPER IS TO BE INTERLOCKED WITH DYERS TO OPEN WHEN DRYERS ARE ENERGIZED AND CLOSE WHEN DRYERS ARE NOT ENERGIZED.

GRILLE AND DIFFUSER SCHEDULE

Table with columns: SYMBOL, DUTY, CFM, MFR., MODEL NO., DIFFUSER NECK SIZE, GRILLE FACE SIZE, DISCHARGE PATTERN, SLOT LENGTH (FT.), NO. SLOTS, SLOT SPACING, REMARKS

NOTES: 1. PROVIDE WITH OPPOSED BLADE DAMPER. 2. COORDINATE COLOR WITH ARCHITECT. 3. DIFFUSER NECK SIZE EQUALS R/OUT SIZE. 4. ALUMINUM CONSTRUCTION. 5. SEE ARCHITECTURAL RCP FOR MOUNTING TYPE REQUIRED. PROVIDE PLASTER FRAME FOR ALL AIR DEVICES LOCATED IN GYP. BOARD CEILINGS. 6. PROVIDE PLENUM.



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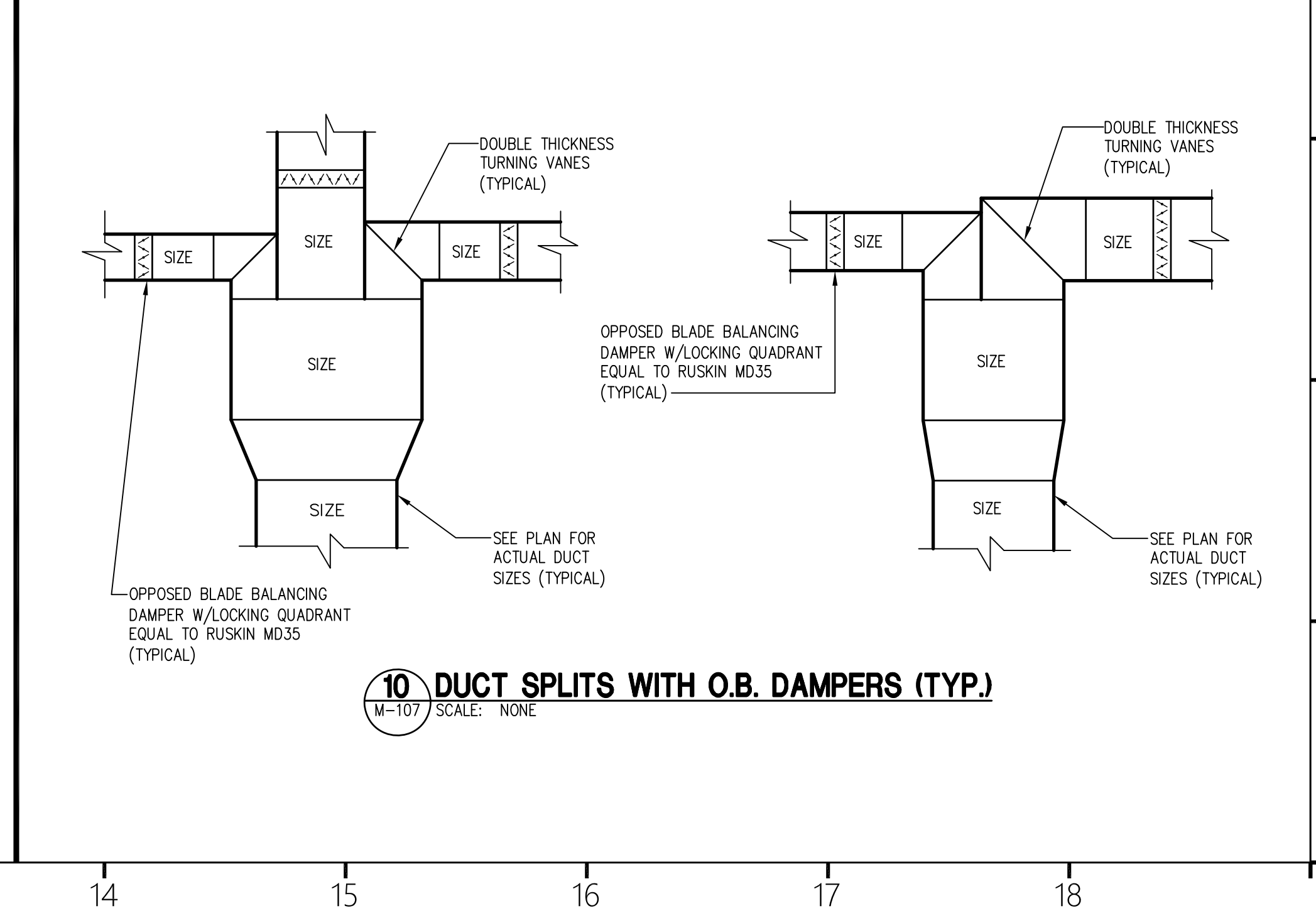
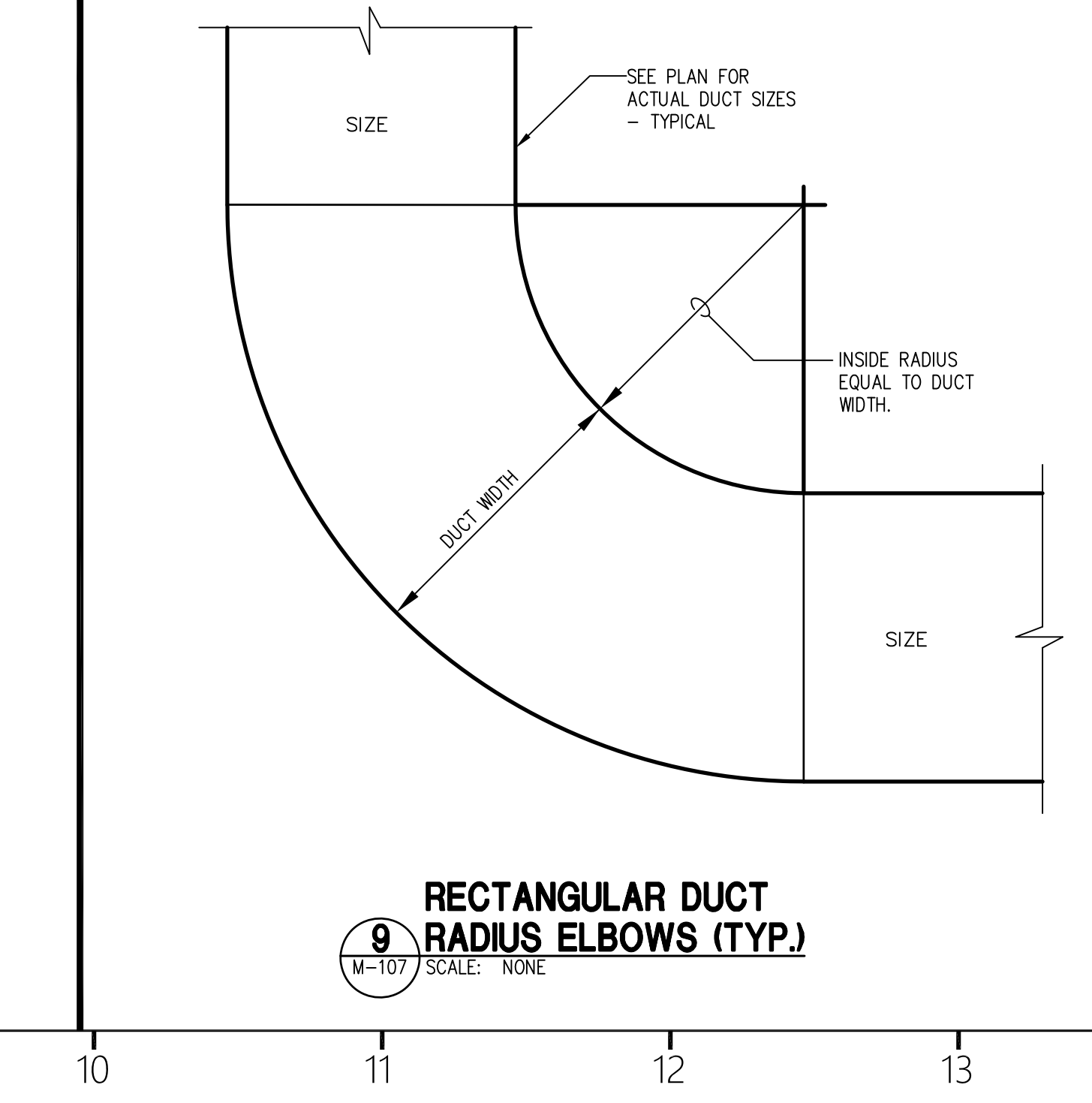
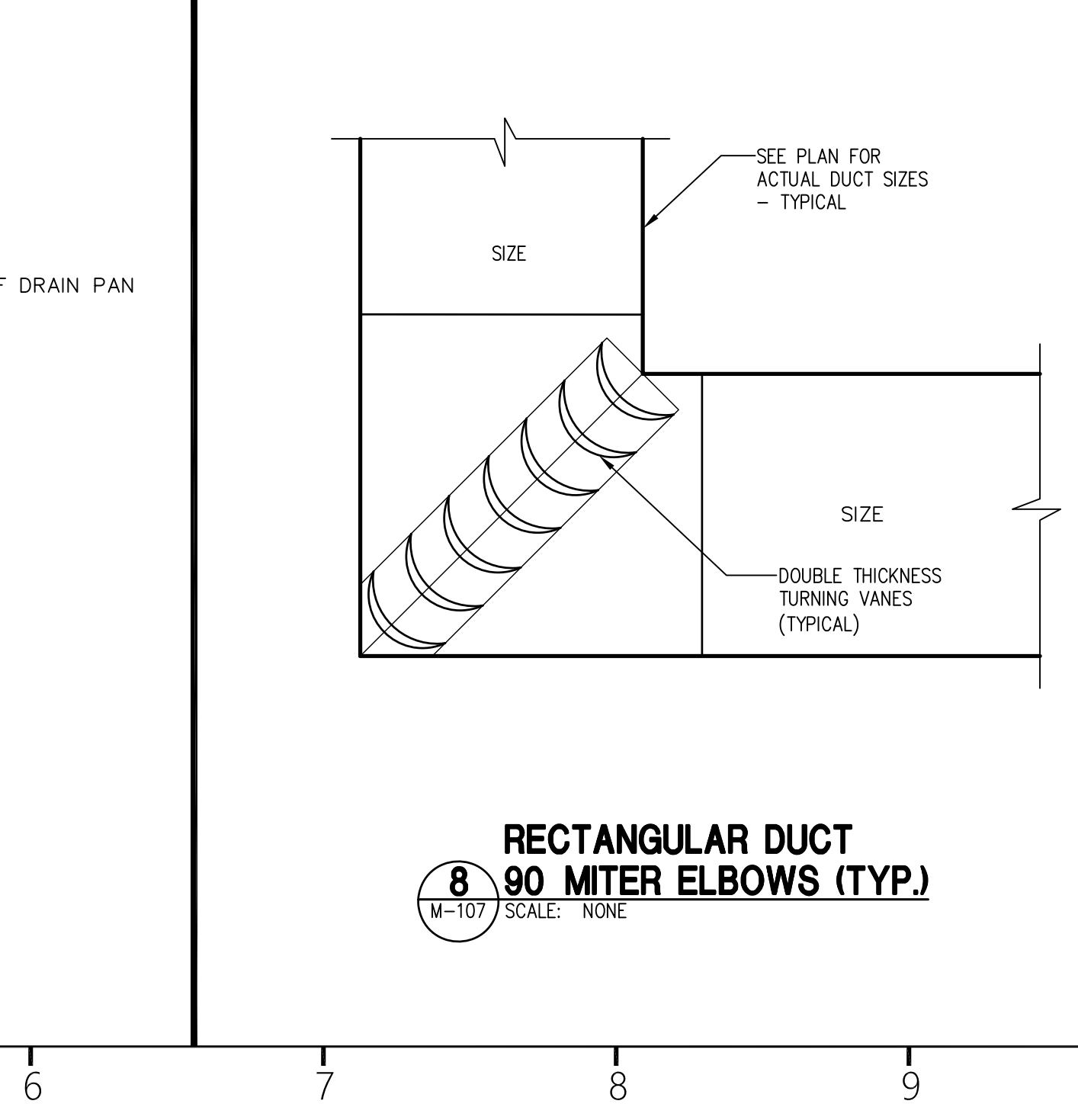
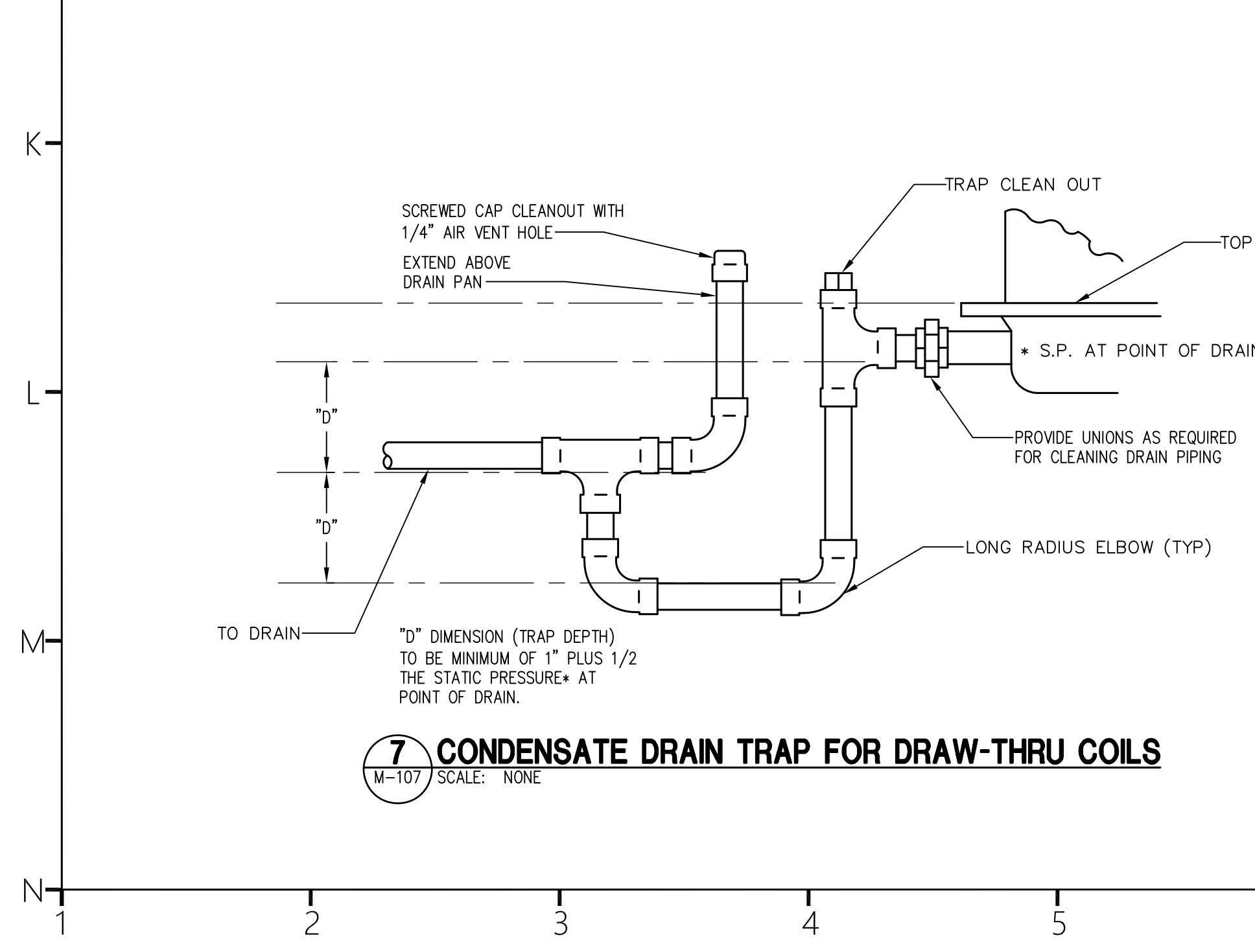
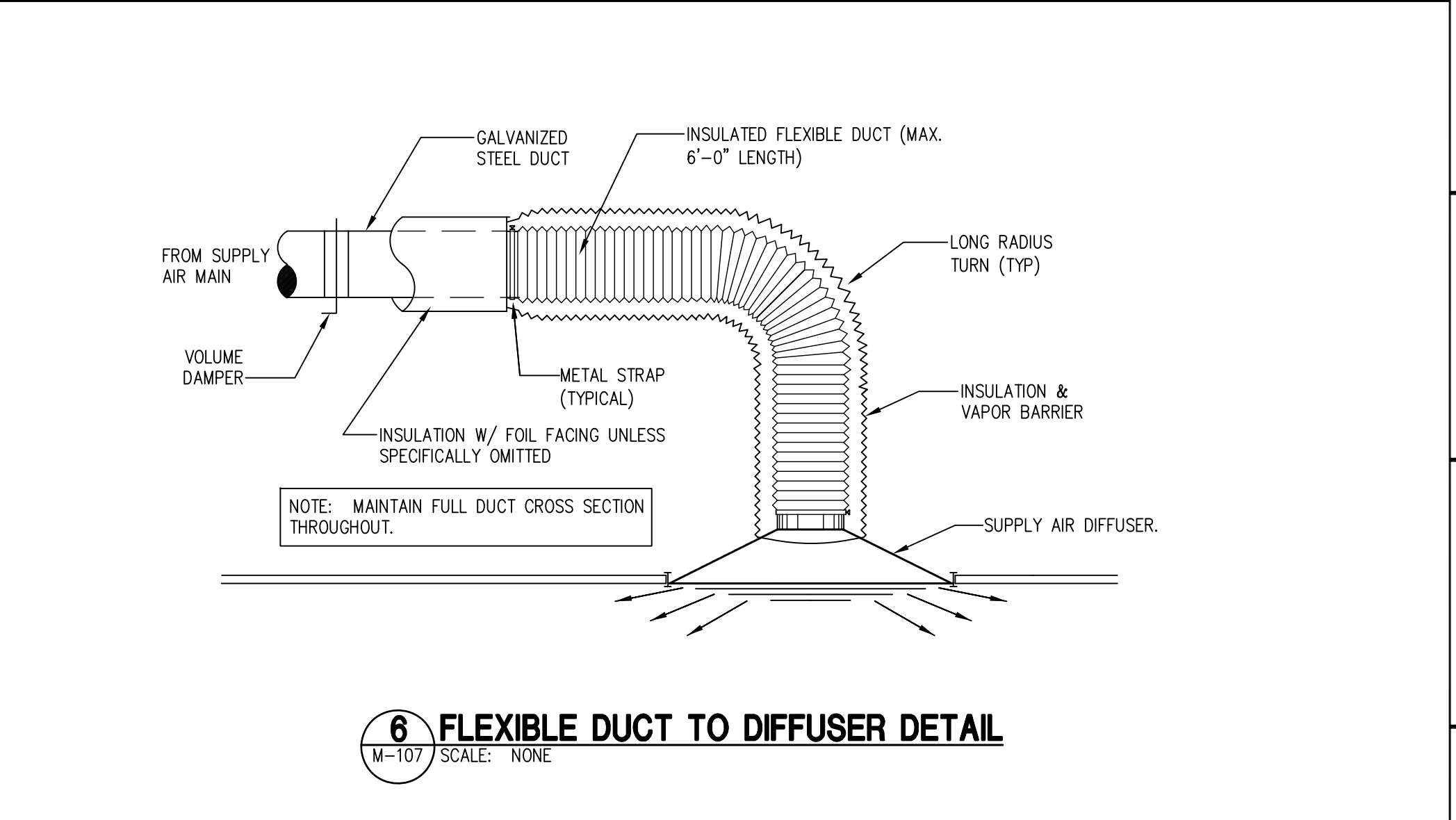
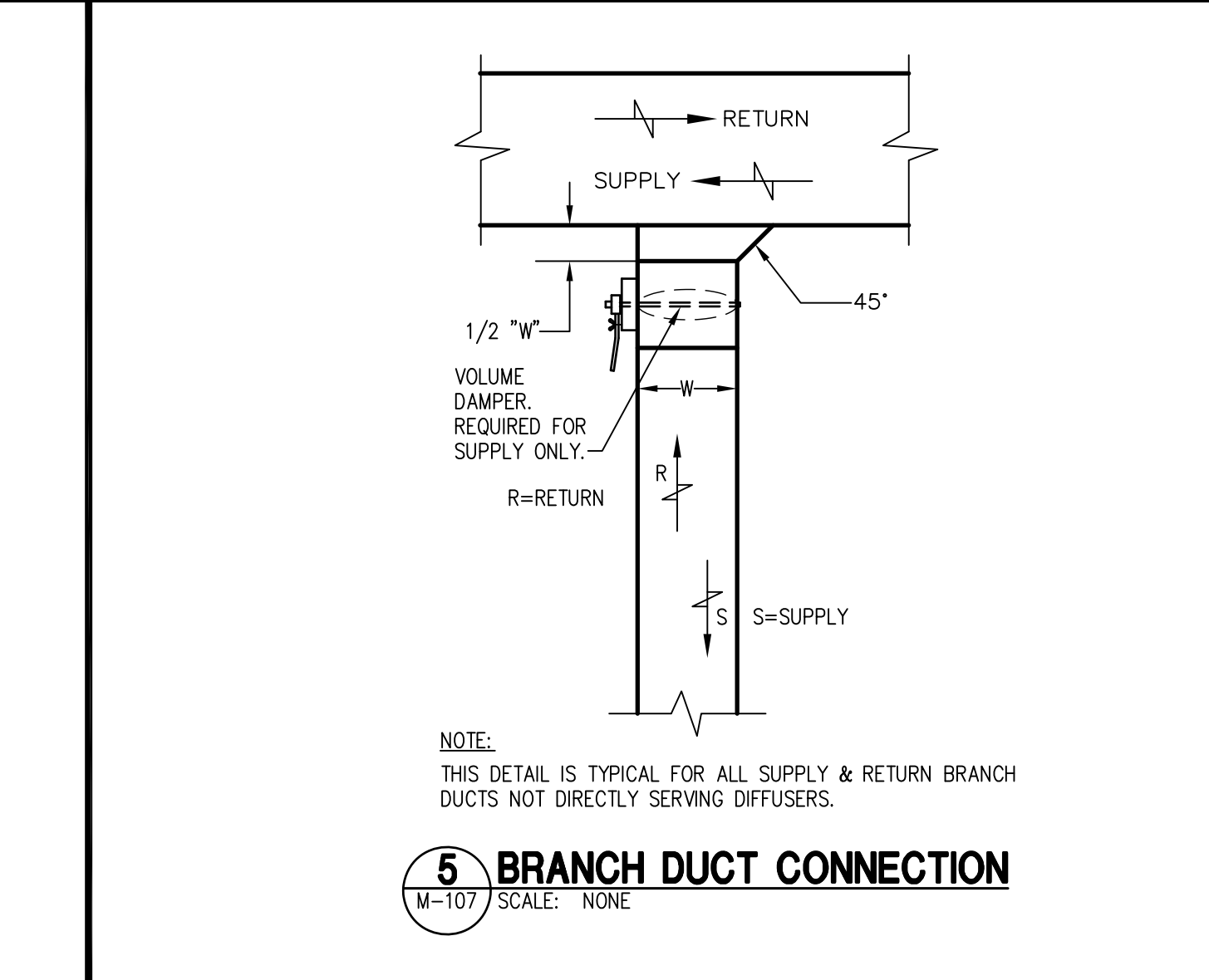
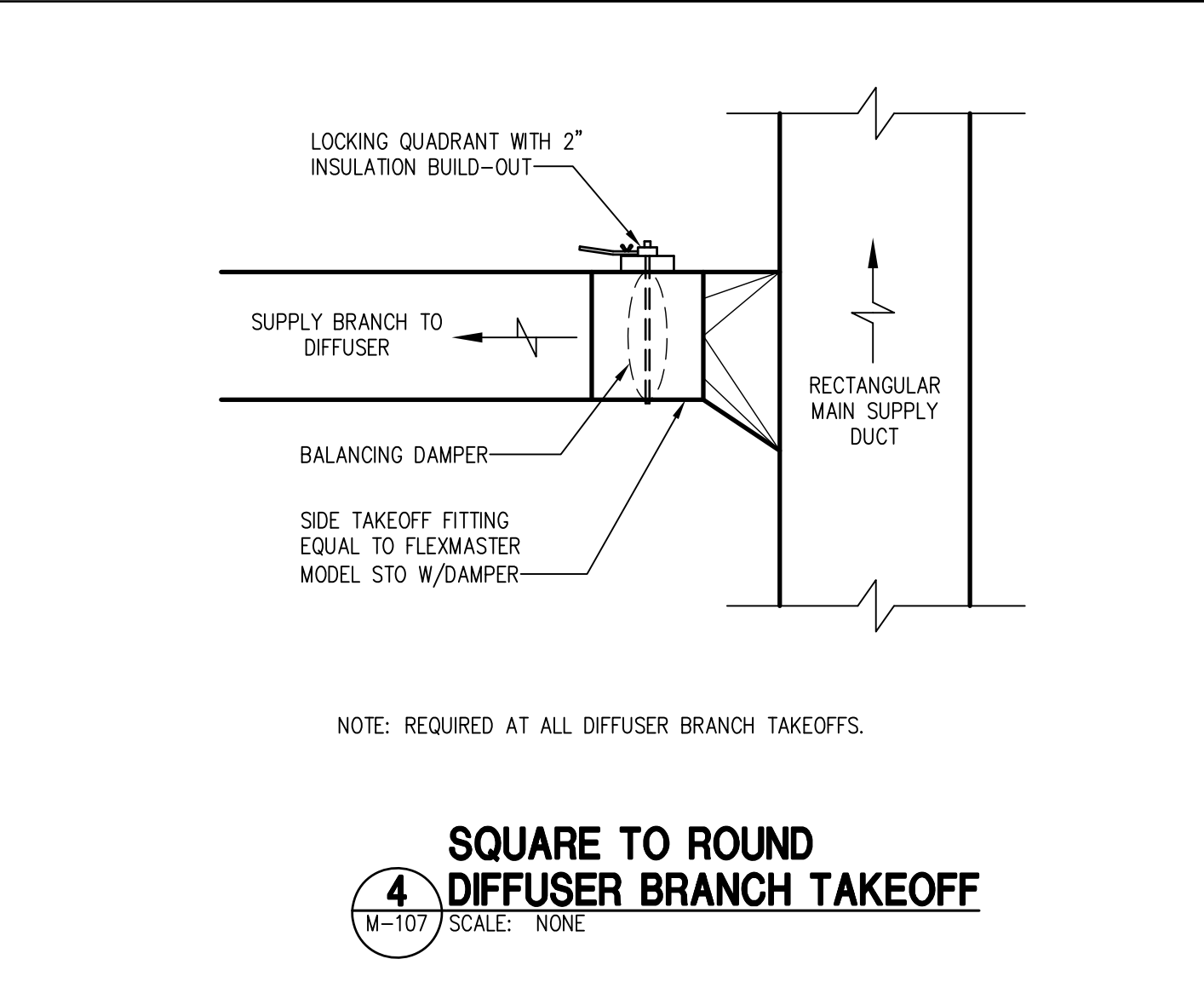
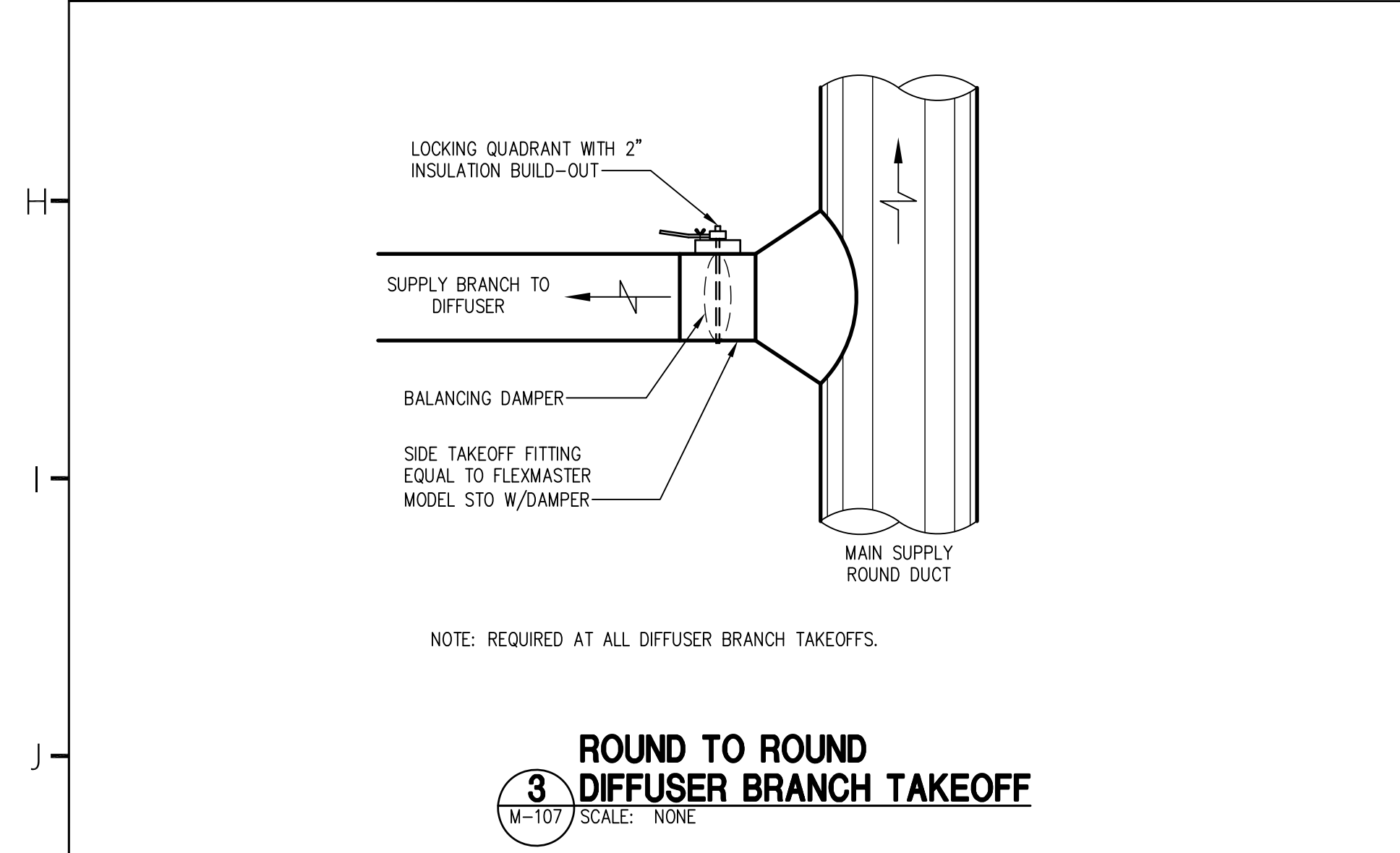
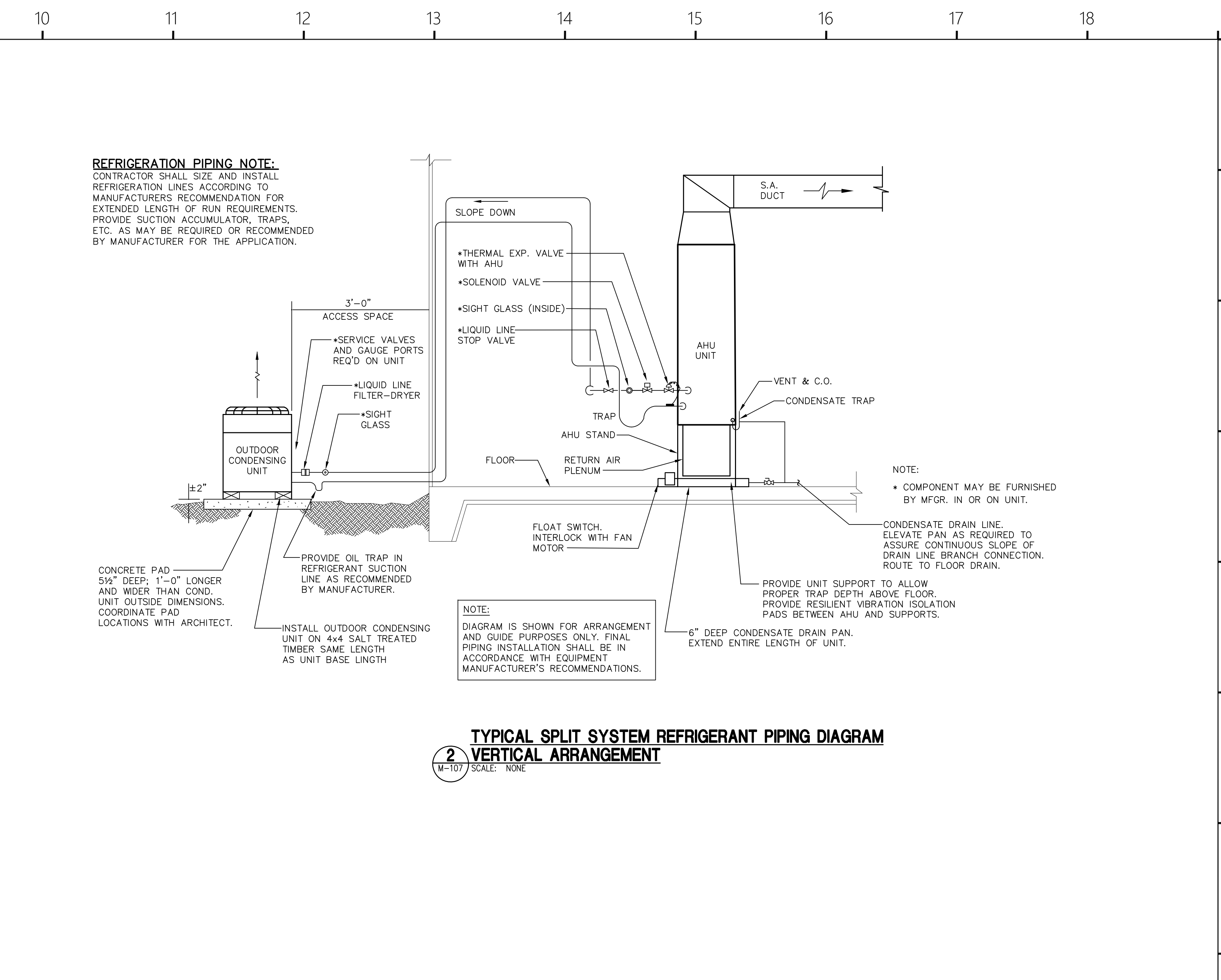
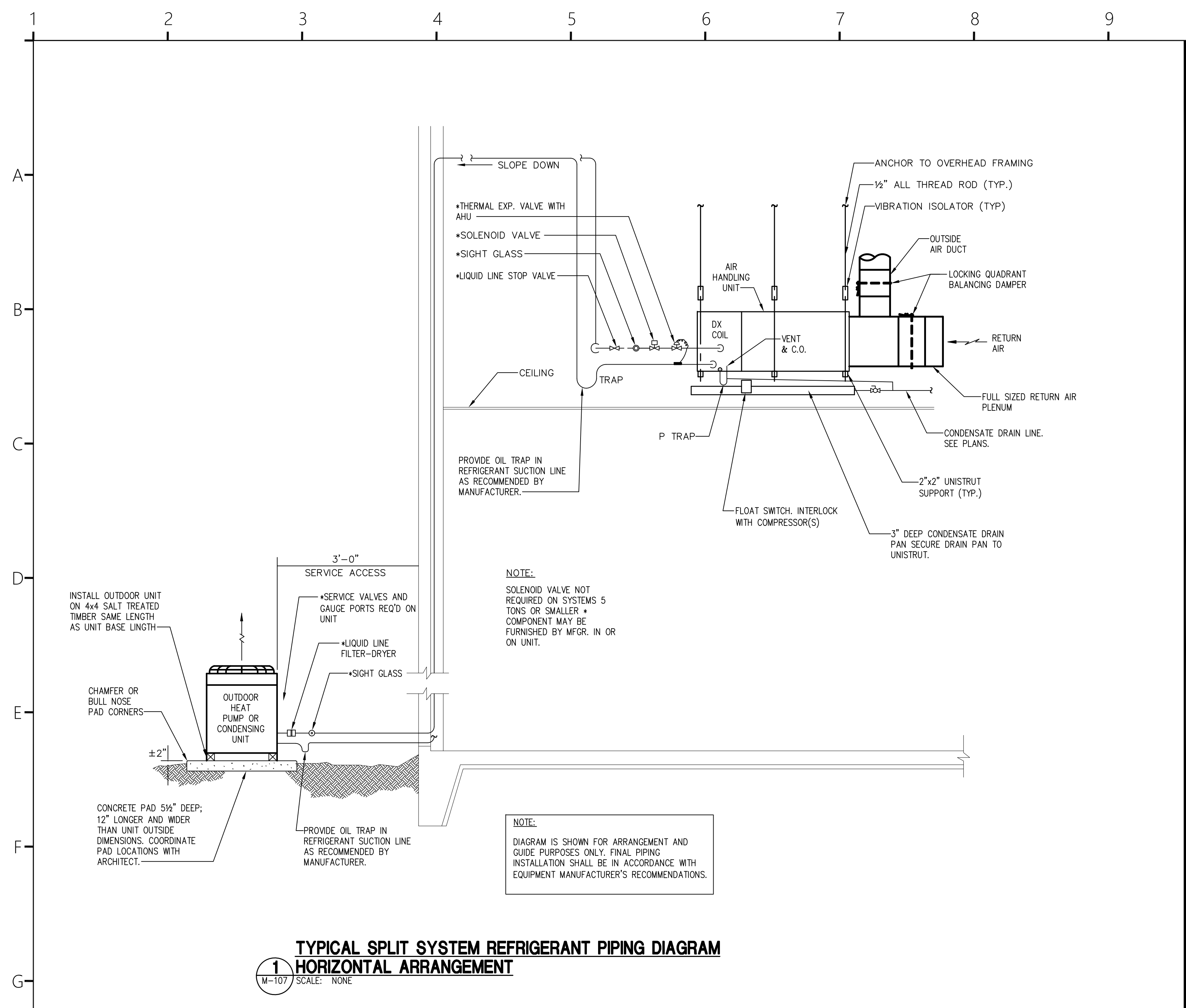
Project Title: HOME 2 SUITES GREENWOOD SC
475 HOSPITALITY BLVD, GREENWOOD, SC 29649



Revisions: 10.16.2024 Issue For Permit, 03.20.2025 Issue For Hilton

Project Number: 23112
Phase: CD
Date: 04.22.2024
Drawn By: DCB
Checked By: LWI
Sheet Number: M-105
Sheet Title: HVAC SCHEDULES

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STRUCTURAL
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PO Box 2616
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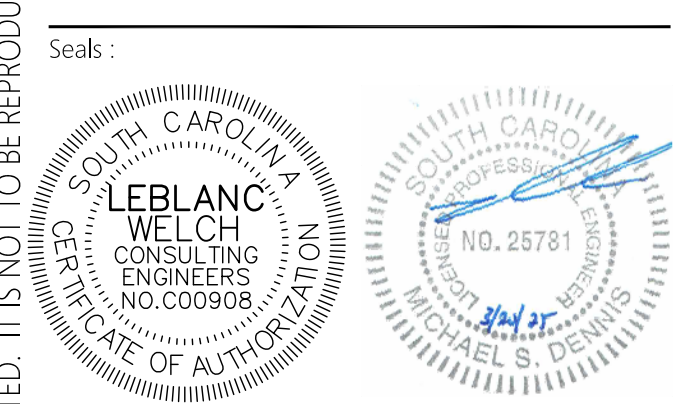
PLUMBING
LWI Consulting Engineers
870 Cleveland St, STE 1D
Greenville, SC 29601
864.271.6535

MECHANICAL
LWI Consulting Engineers
870 Cleveland St, STE 1D
Greenville, SC 29601
864.271.6535

ELECTRICAL
Matrix Engineering, INC
912 S Pine Street
Spartanburg, SC 29302
864.583.6274

Project Title:
**HOME 2 SUITES
GREENWOOD SC**
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

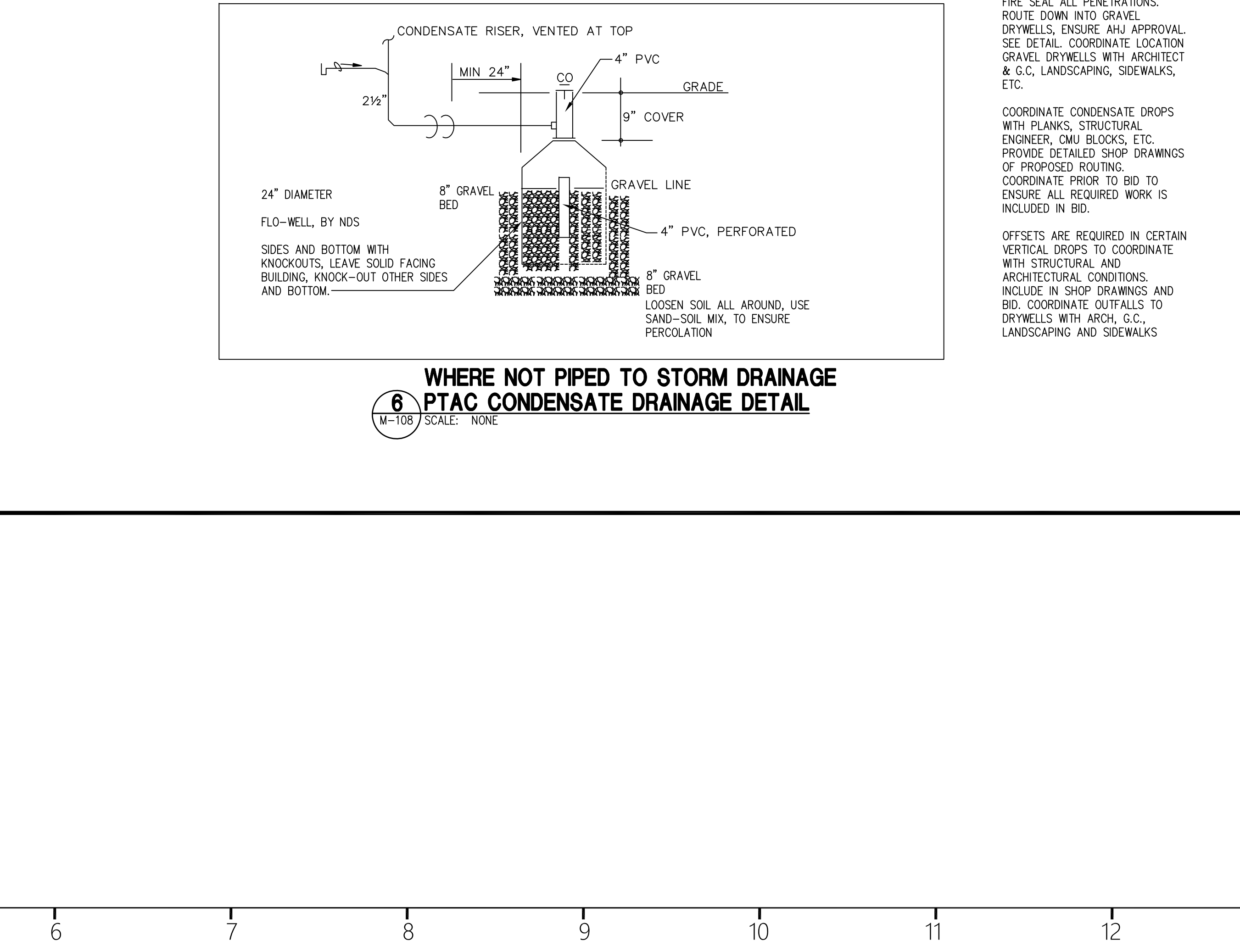
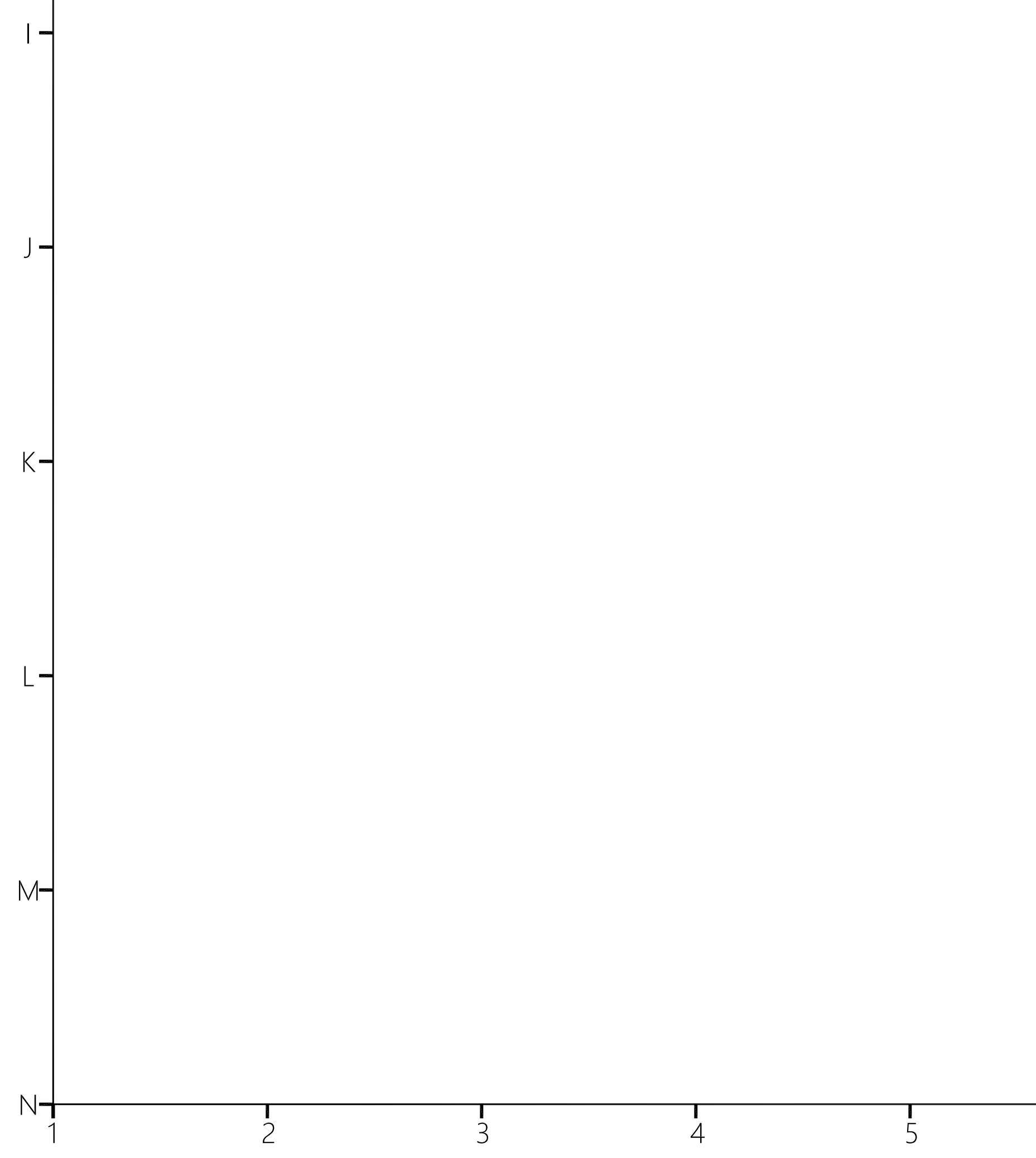
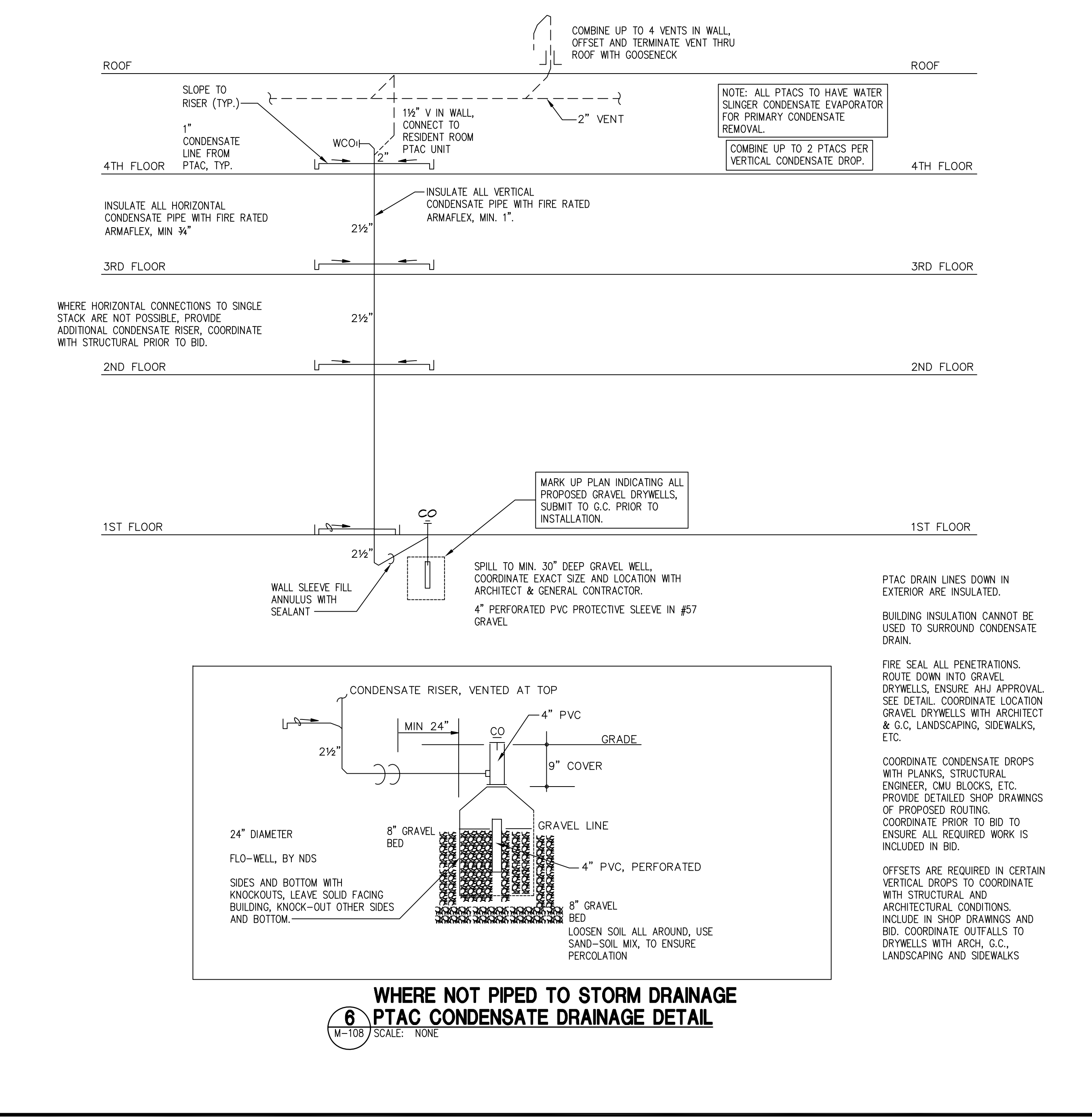
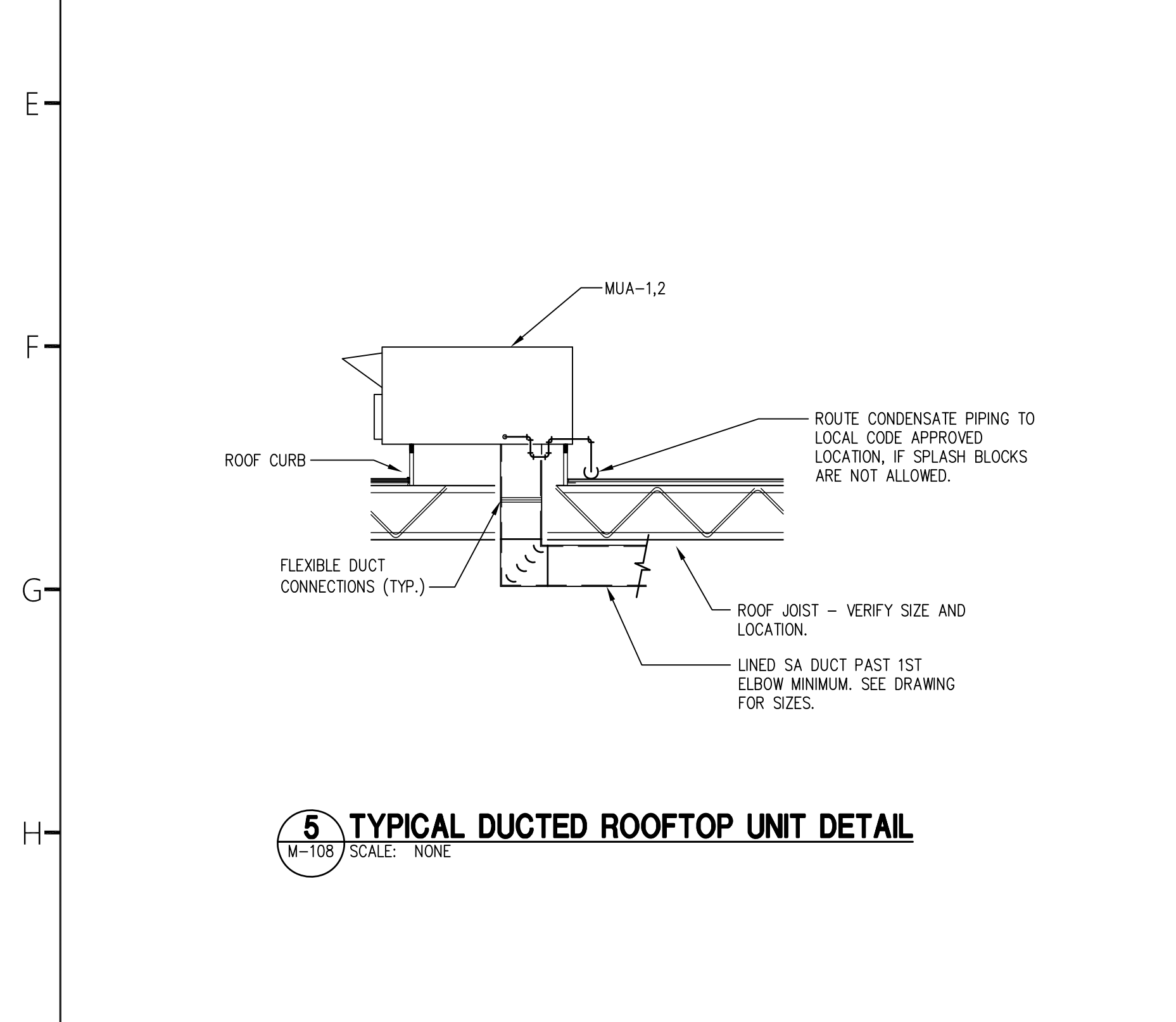
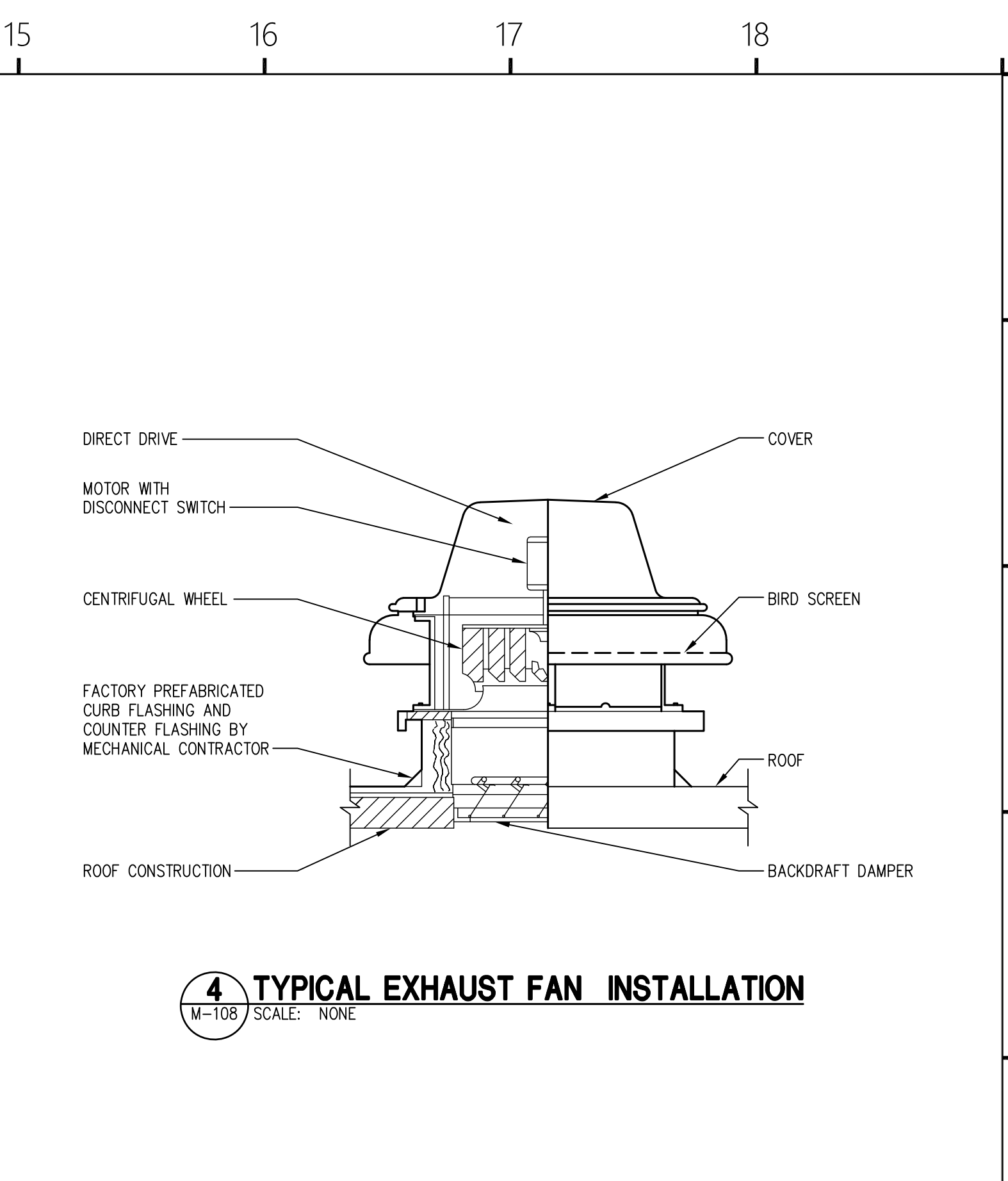
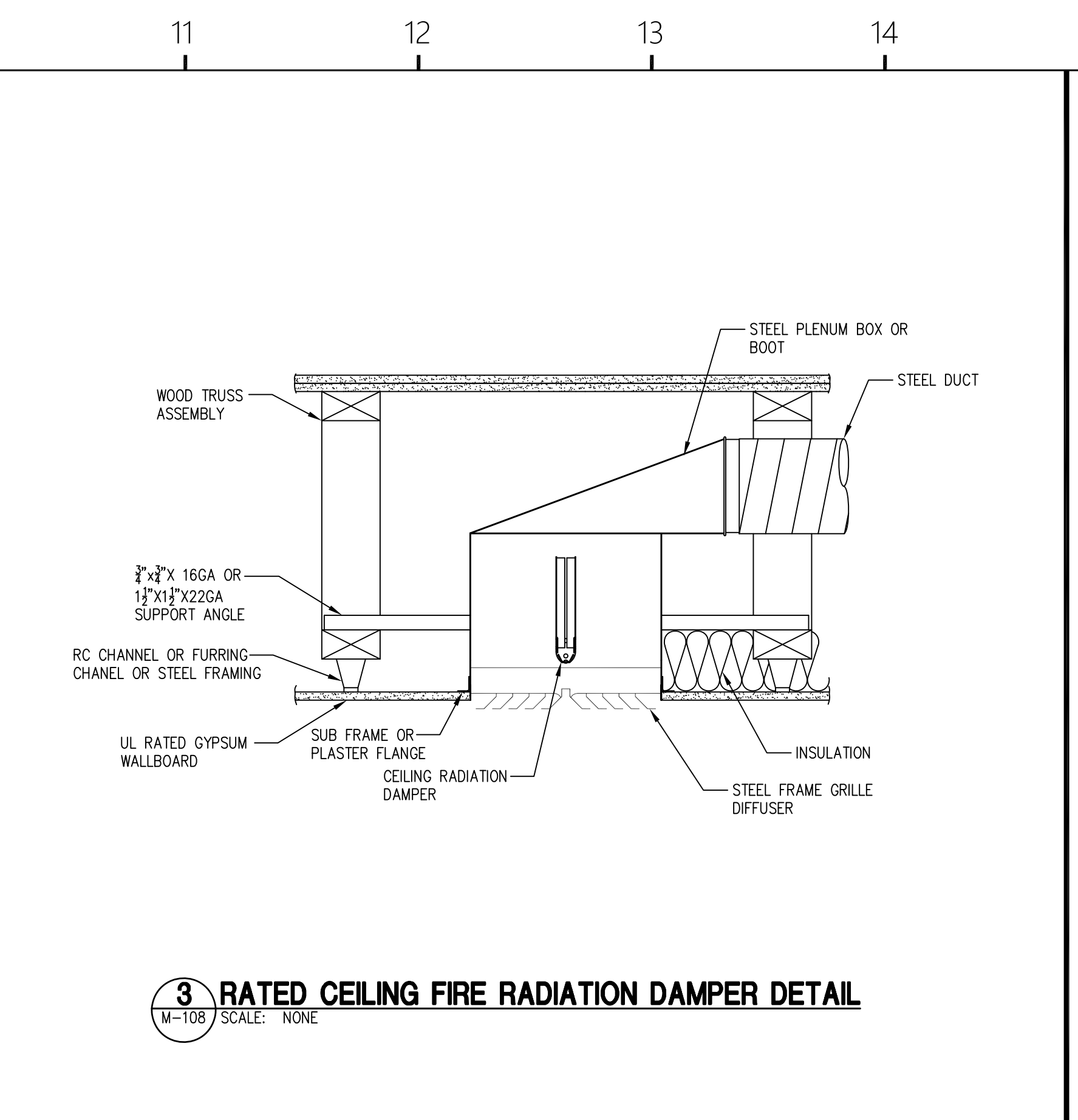
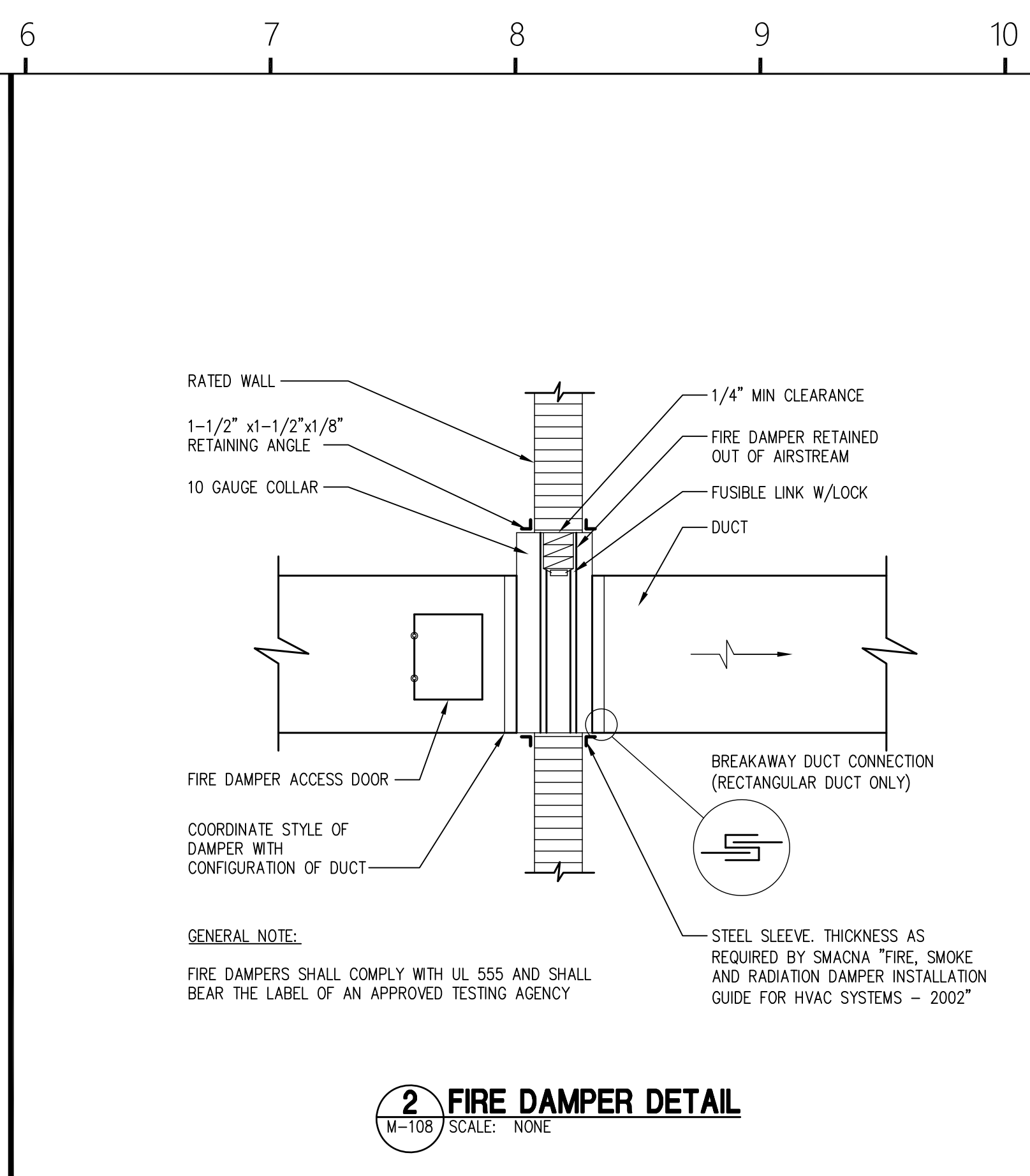
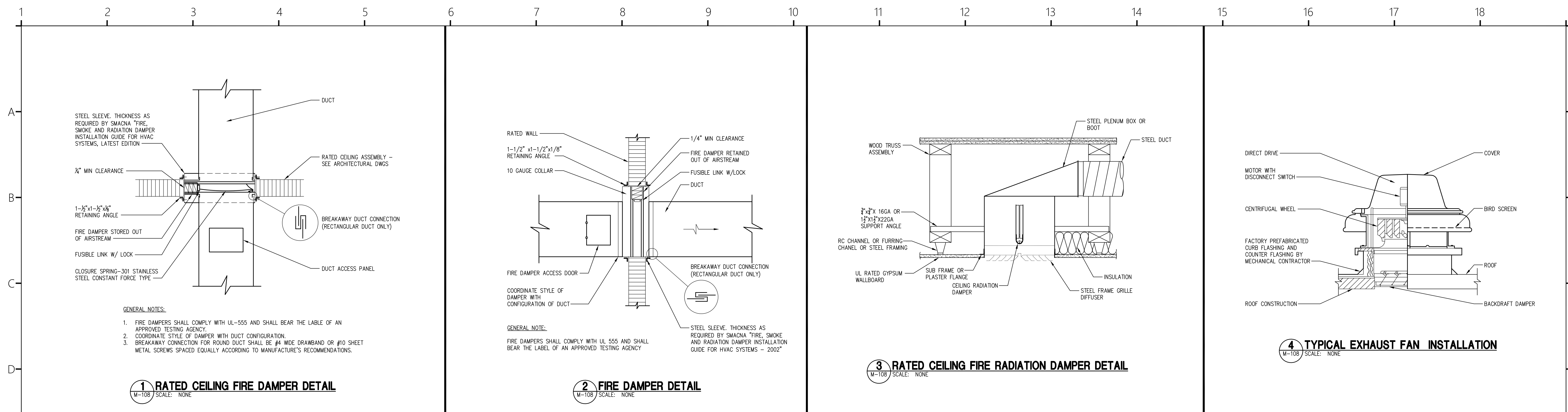


Revisions:
10.16.2024 Issue For Permit
A 03.20.2025 100% Issue For Hilton

Project Number:
23112
Phase:
CD
Date:
04.22.2024
Drawn By:
DCB
Checked By:
LWI

Sheet Number:
M-108
Sheet Title:
HVAC DETAILS

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