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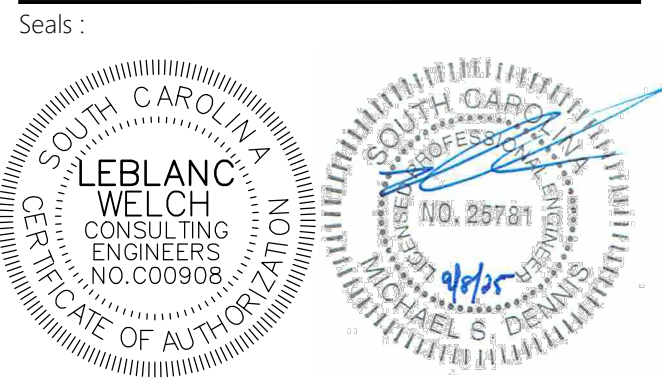
PLUMBING
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870 Cleveland St., STE 1D
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MECHANICAL
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ELECTRICAL
Matrix Engineering, INC.
912 S Pine Street
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864.583.6274

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

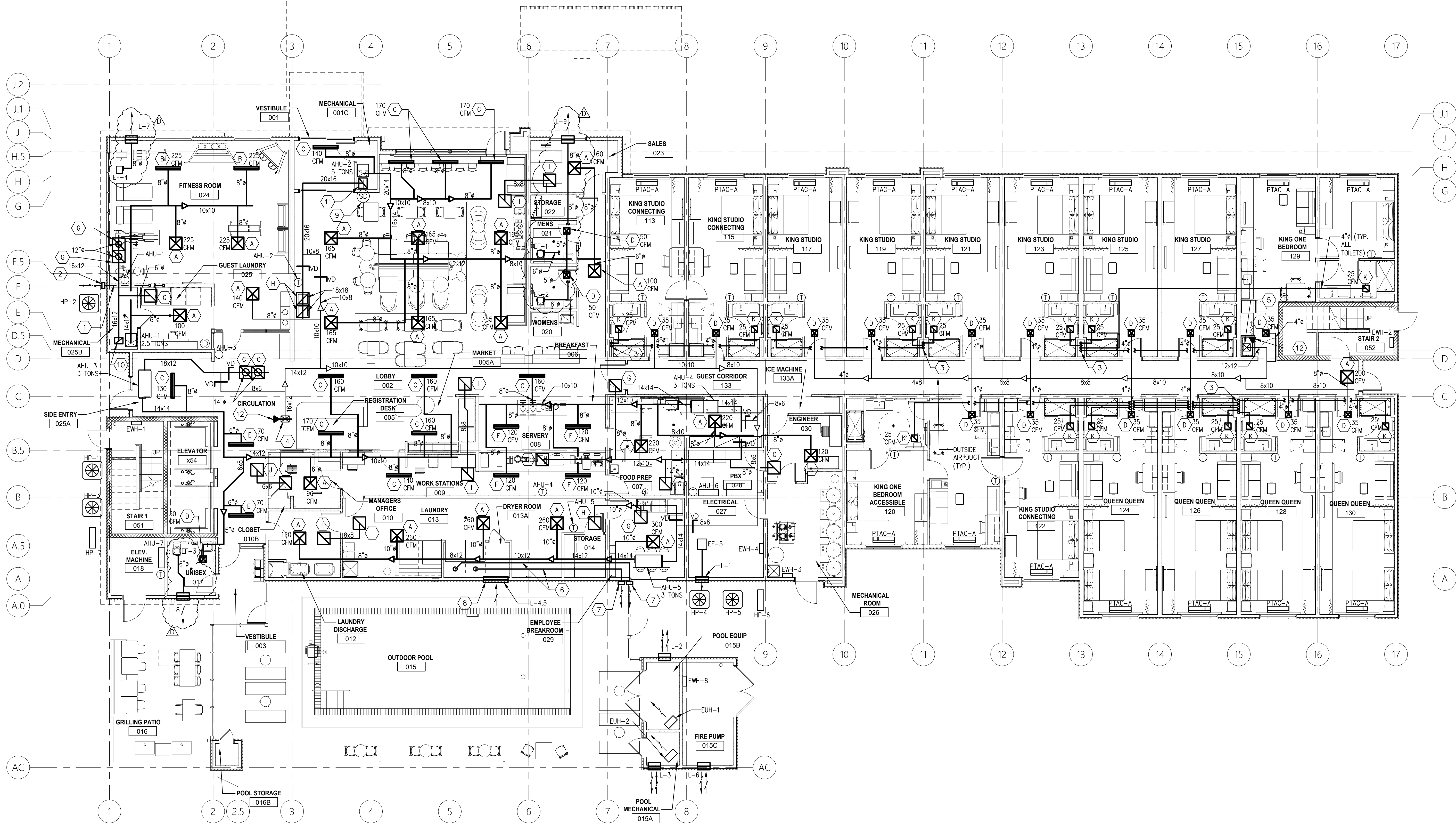
Client Logo:



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10.16.2024 Issue For Permit
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Project Number:
23112
Phase:
CD
Date:
04.22.2024
Drawn By:
DCB
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Sheet Number:
M-101
Sheet Title:
FIRST FLOOR HVAC PLAN



KEY NOTES (THIS SHEET ONLY)

- ROUTE DRYER VENT PER CODE REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS.
- DRYER WALL DISCHARGE.
- EXHAUST DUCT TURN UP IN EXHAUST SHAFT A MINIMUM OF 22°.
- 16x12 FROM SECOND FLOOR. SEE SECOND FLOOR PLAN ON DRAWING M-102 FOR CONTINUATION ABOVE.
- 12x12 FROM SECOND FLOOR. SEE SECOND FLOOR PLAN ON DRAWING M-102 FOR CONTINUATION ABOVE.
- 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.
- 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.
- 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 BTU'S.
- INSTALL DUCT SMOKE DETECTOR PER CODE REQUIREMENTS.
- 16x12 RETURN DUCT DOWN. CONNECT TO PLENUM ON BOTTOM OF AHU-1.
- 20x16 RETURN DUCT DOWN. CONNECT TO PLENUM ON BOTTOM OF AHU-2.
- 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 OWL 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.

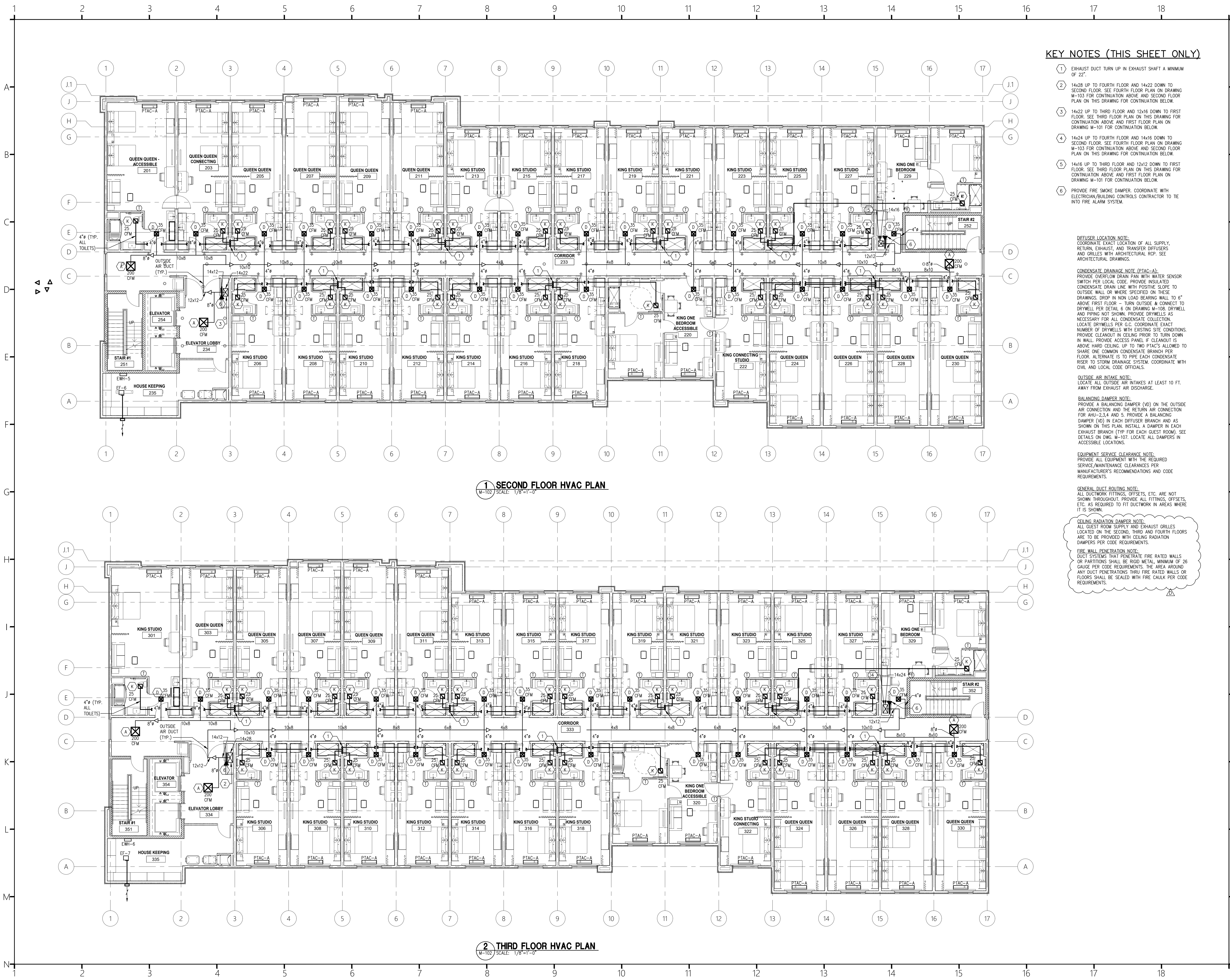
EQUIPMENT SERVICE CLEARANCE NOTE:
PROVIDE ALL EQUIPMENT WITH THE REQUIRED SERVICE/MAINTENANCE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.

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"



KEY NOTES (THIS SHEET ONLY)

- 1 EXHAUST DUCT TURN UP IN EXHAUST SHAFT A MINIMUM OF 22°.
- 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.

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 (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.

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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.

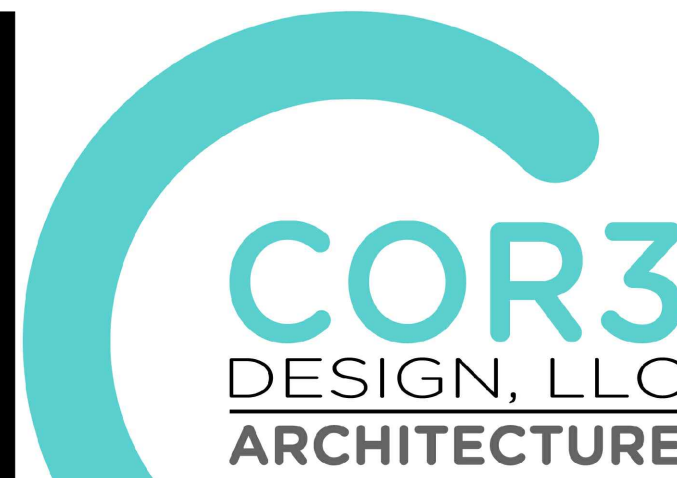
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CEILING RADIATION DAMPER NOTE:
ALL GUEST ROOM SUPPLY AND EXHAUST GRILLES LOCATED ON THE SECOND, THIRD AND FOURTH FLOORS ARE TO BE PROVIDED WITH CEILING RADIATION DAMPERS PER CODE REQUIREMENTS.

FIRE WALL PENETRATION NOTE:
DUCT SYSTEMS THAT PENETRATE FIRE RATED WALLS OR PARTITIONS SHALL BE RIGID METAL, MINIMUM OF 26 GAUGE PER CODE REQUIREMENTS. THE AREA AROUND ANY DUCT PENETRATIONS THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH FIRE CAULK PER CODE REQUIREMENTS.

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

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



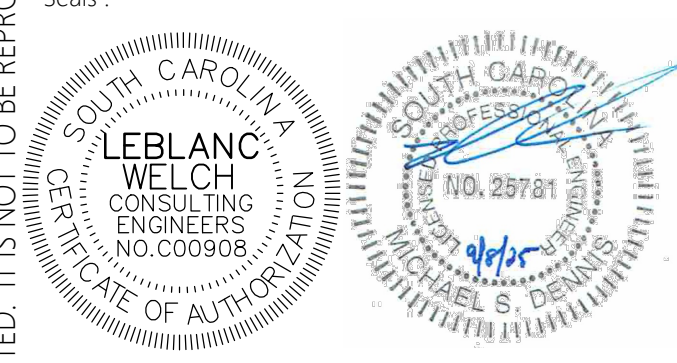
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Project Title:
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475 HOSPITALITY BLVD,
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A 03.20.2025 100% Issue For Hilton
D 09.08.2025 Client Comments

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



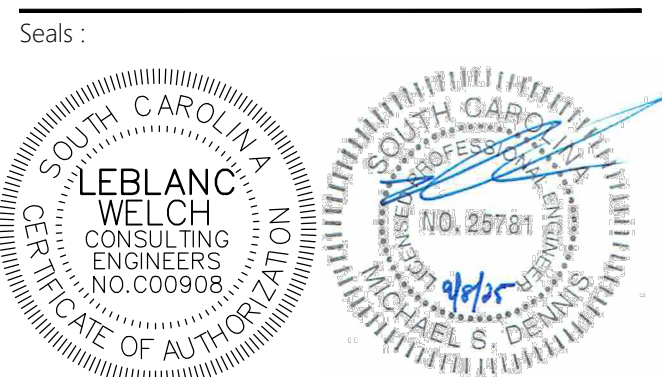
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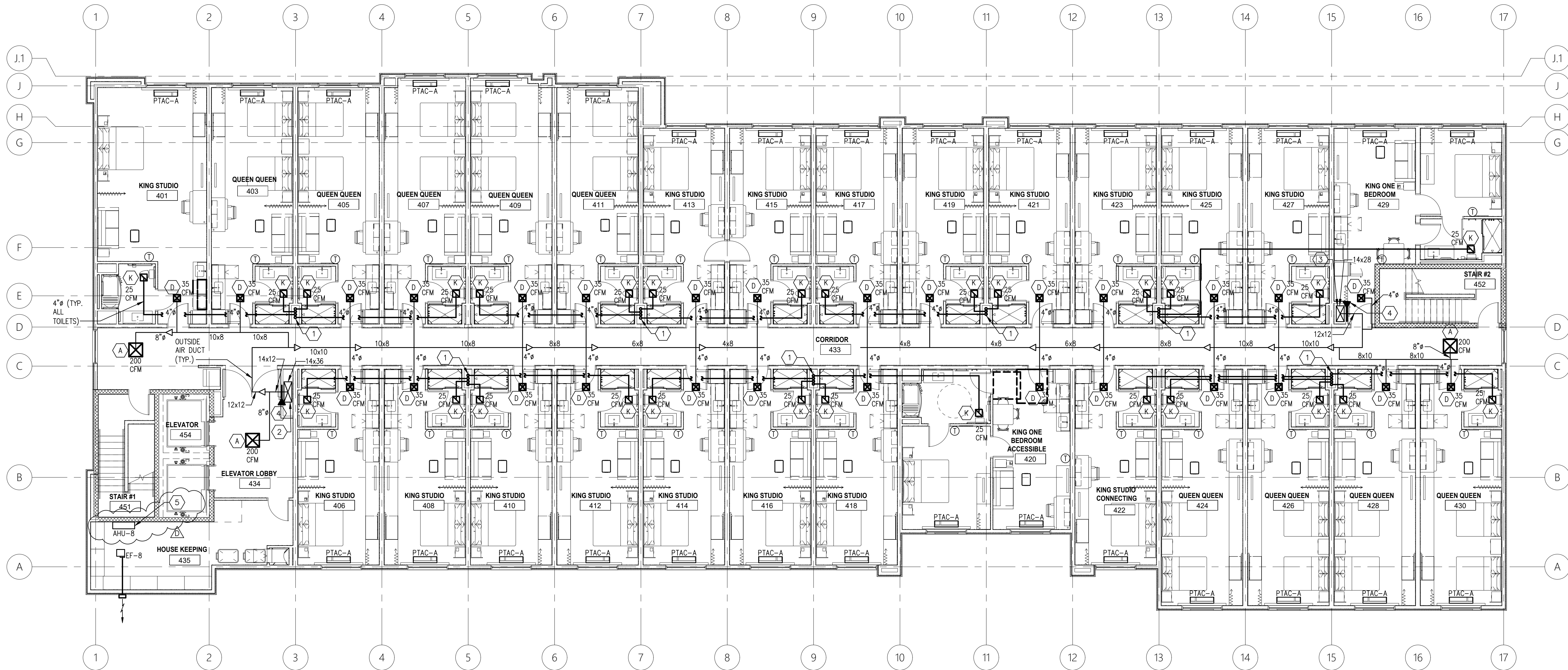
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M-103
Sheet Title:
4TH FLOOR HVAC PLAN



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.
- 5 ROUTE CONDENSATE DRAIN FROM MINI SPLIT SYSTEM AIR HANDLING UNIT TO FLOOR DRAIN AT ICE MACHINE PER CODE REQUIREMENTS. SEE PLUMBING DRAWINGS.

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 (PTAC-A):
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CEILING RADIATION DAMPER NOTE:
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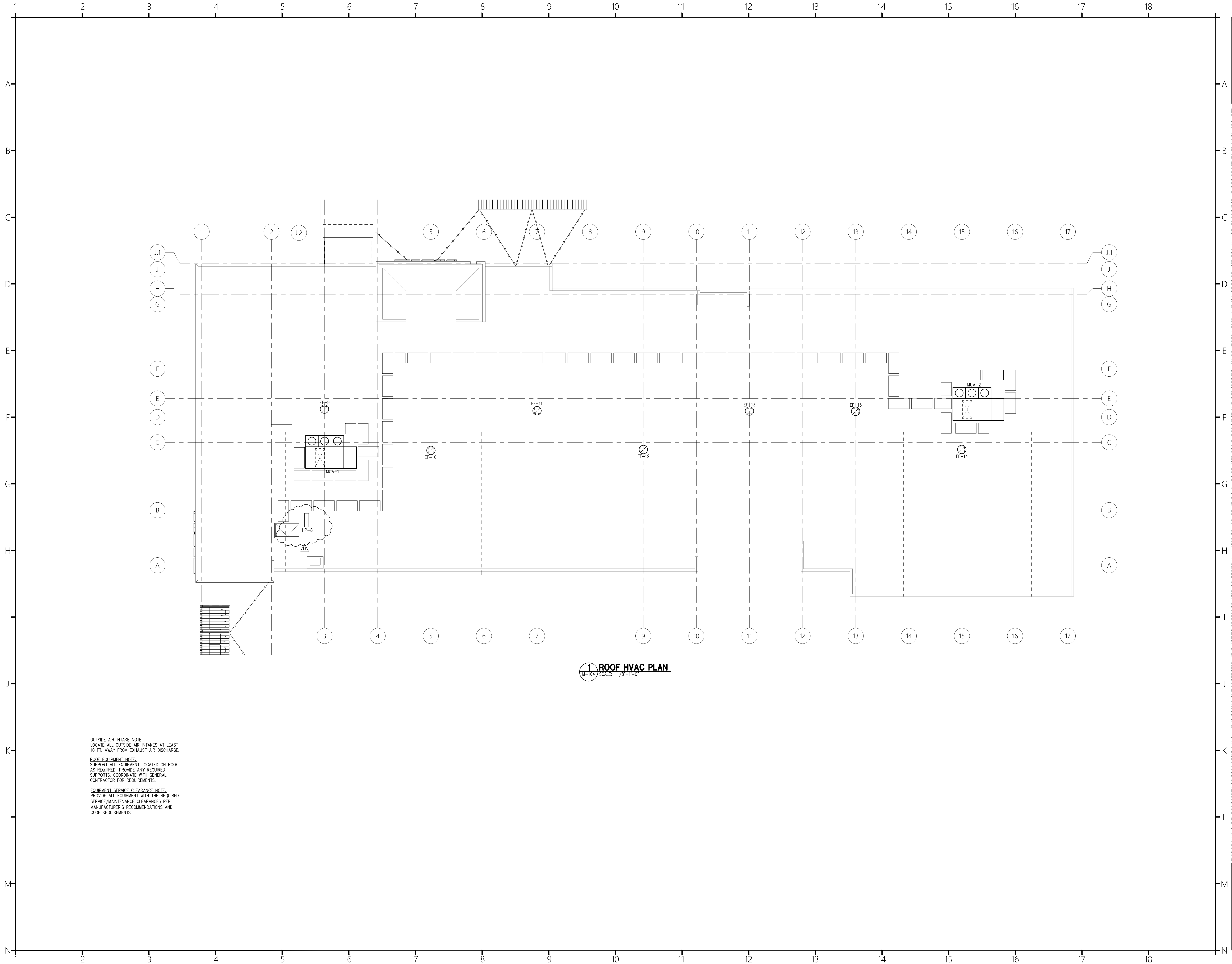
FIRE WALL PENETRATION NOTE:
DUCT SYSTEMS THAT PENETRATE FIRE RATED WALLS OR PARTITIONS SHALL BE RIGID METAL, MINIMUM OF 26 GAUGE PER CODE REQUIREMENTS. THE AREA AROUND ANY DUCT PENETRATIONS THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH FIRE CAULK PER CODE REQUIREMENTS.

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

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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.



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
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MANUFACTURER'S RECOMMENDATIONS AND
CODE REQUIREMENTS.

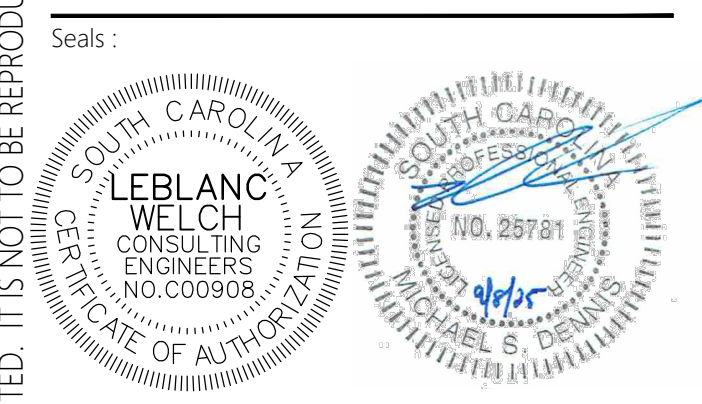
1 ROOF HVAC PLAN
M-104 SCALE: 1/8"=1'-0"



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Sheet Title:
ROOF HVAC PLAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

SPLIT SYSTEM HEAT PUMP SCHEDULE																			
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 MOCP	SYSTEM COOLING (NET)					SYSTEM HEATING					AHU MODEL	
								E.D.B. °F	E.W.B. °F	COND. °F	SENSIBLE MBH	TOTAL MBH	E.D.B. °F	OUTDOOR AMBIENT	MBH	NOMINAL HEATER KW	MIN. HTR KW OUTPUT @ VOLT.	STAGES	TRANE
AHU-1/HP-1	1000	140	0.5	0.5	208/1/60	40	40	80	67	95	22.2	29.3	64.3	17° F	18.1	7.68	5.77	1	TEM6AOC30H21
AHU-2/HP-2	2000	300	0.5	0.75	208/3/60	45	45	80	67	95	44.1	58.5	63.8	17° F	34.8	14.4	10.8	1	TEM6BOC60H51
AHU-3/HP-3	1200	200	0.5	0.5	208/3/60	30	30	80	67	95	25.9	35.2	62.8	17° F	20.4	9.6	7.2	1	TEM6AOC36H31
AHU-4/HP-4	1200	200	0.5	0.5	208/3/60	30	30	80	67	95	25.9	35.2	62.8	17° F	20.4	9.6	7.2	1	TEM6AOC36H31
AHU-5/HP-5	1200	150	0.5	0.5	208/3/60	30	30	80	67	95	25.9	35.2	65.1	17° F	20.4	9.6	7.2	1	TEM6AOC36H31

- ACCESSORIES:
1. LOW AMBIENT CONTROL.
 2. HAIL 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. SIZES SHALL BE BASED ON INSTALLED PIPING DISTANCES FROM CONDENSING UNIT TO AIR HANDLING UNIT. PROVIDE ALL NECESSARY ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.

NOTE:
ROOFTOP A/C UNIT SCHEDULE IS BASED ON UNITS AS MANUFACTURED BY TRANE. ACCEPTABLE ALTERNATE MANUFACTURERS ARE YORK, CARRIER AND LENNOX.

FOR ACCEPTABLE ALTERNATE MANUFACTURERS, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

1. SUPPLY AIR FANS SHALL RUN CONTINUOUSLY DURING NORMALLY OCCUPIED HOURS.

ELECTRIC UNIT HTR. SCHEDULE

MARK	DESCRIPTION	VOLTS	PH	Hz	HEATING KW	TOTAL AMPS	BASIS OF DESIGN
EUH-1	ELECTRIC UNIT MTD.	208	3	60	3.0	10	INDEECO ULTRA-SAFE EXP.
EUH-2	ELECTRIC UNIT MTD.	208	3	60	3.0	10	INDEECO ULTRA-SAFE EXP.

1. FURNISH WITH BUILT-IN THERMOSTAT & DISCONNECT.
2. HEATER TO BE EXPLOSION PROOF AND CORROSION RESISTANT.

ELECTRIC WALL HTR. SCHEDULE

MARK	DESCRIPTION	VOLTS	PH	Hz	HEATING KW	AMPS	BASIS OF DESIGN
EWH-1	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T
EWH-2	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T
EWH-3	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T
EWH-4	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T
EWH-5	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T
EWH-6	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T
-	-	-	-	-	-	-	DELETED
EWH-8	ELECTRIC WALL MTD.	208	3	60	2.0	5.6	MARKEL J3422T

1. FURNISH WITH BUILT-IN THERMOSTAT & DISCONNECT, 2" SEMI-RECESSING MOUNTING SLEEVE.

NOTE:
HEATER SCHEDULE IS BASED ON UNITS AS MANUFACTURED BY MARKEL. ACCEPTABLE ALTERNATE MANUFACTURERS ARE QMARK AND RAYWALL.

LOUVER SCHEDULE

MARK	SERVES	MANUFACTURER	MODEL NO.	AIRFLOW CFM	MAX. PRESS. DROP IN. W.C.	LOUVER SIZE WxH	FREE AREA SQ. FT.	INTERLOCK WITH	COMMENTS
L-1	ELECTRICAL/027	RUSKIN	ELF6375DX	400	0.04	24"x12"	0.79	-	1
L-2	POOL EQUIP/015B	RUSKIN	ELF6375DX	-	-	12"x12"	0.36	-	1
L-3	POOL MECH/015A	RUSKIN	ELF6375DX	-	-	12"x12"	0.36	-	1
L-4	DRYER RM/013A	RUSKIN	ELF6375DX	-	-	48"x18"	2.89	DRYERS	1,2
L-5	DRYER RM/013A	RUSKIN	ELF6375DX	-	-	48"x18"	2.89	DRYERS	1,2
L-6	FIRE PUMP/015C	RUSKIN	ELF6375DX	-	-	12"x12"	0.36	-	1
L-7	FITNESS ROOM	RUSKIN	ELF6375DX	-	-	12"x12"	0.36	-	1
L-8	POOL RESTROOM	RUSKIN	ELF6375DX	-	-	12"x12"	0.36	-	1
L-9	PUBLIC RESTROOMS	RUSKIN	ELF6375DX	-	-	12"x12"	0.36	-	1

- 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

SYMBOL	DUTY	CFM	MFR.	MODEL NO.	DIFFUSER NECK SIZE	GRILLE FACE SIZE	DISCHARGE PATTERN	SLOT LENGTH (FT.)	NO. SLOTS	SLOT SPACING	REMARKS
A	SUPPLY	SEE PLAN	PRICE	SCD 4 CONE	SEE PLAN	24x24	-	-	-	-	1,2,3,5
B	SUPPLY	SEE PLAN	PRICE	SDS100	-	-	-	4.0	3	1"	1,2,5,6
C	SUPPLY	SEE PLAN	PRICE	SDS100	-	-	-	4.0	2	1"	1,2,5,6
D	SUPPLY	SEE PLAN	PRICE	SCD 4 CONE	SEE PLAN	12x12	-	-	-	-	1,2,3,5
E	SUPPLY	SEE PLAN	PRICE	SDS100	-	-	-	3.0	1	1"	1,2,5,6
F	SUPPLY	SEE PLAN	PRICE	SDS100	-	-	-	3.5	2	1"	1,2,5,6
G	RETURN	SEE PLAN	PRICE	PDDR ROUND NECK	SEE PLAN	24x24	-	-	-	-	2,3,5
H	RETURN	SEE PLAN	PRICE	PDDR SQUARE NECK	18x18	24x24	-	-	-	-	2,5
I	TRANSFER	SEE PLAN	PRICE	PDDR SQUARE NECK	8x8	24x24	-	-	-	-	2,5
J	TRANSFER	SEE PLAN	PRICE	PDDR SQUARE NECK	6x6	24x24	-	-	-	-	2,5
K	EXHAUST	SEE PLAN	PRICE	PDDR ROUND NECK	6"ø	12x12	-	-	-	-	1,2,3,5

NOTES:

1. PROVIDE WITH OPPOSED BLADE DAMPER.
2. COORDINATE COLOR WITH ARCHITECT.
3. DIFFUSER NECK SIZE EQUALS RUNOUT 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.

PACKAGED TERMINAL AIR CONDITIONING UNIT (PTAC) SCHEDULE

UNIT NO.	MANUFACTURER/MODEL NO.	FAN CFM	OUTSIDE AIR CFM	ESP (WG)	EER	COOLING CAPACITY MBH	HEATING CAPACITY MBH	AUXILIARY HEAT KW	UNIT ELECTRICAL	MCA	MOCP	COMMENTS
PTAC-A	AMANA/PTH093G	360	-	-	11.5	9.0	8.1	3.5	208/1	19.5	20	1,2,3,4

COMMENTS:

1. G.C. SHALL PROVIDE SUB-BASE KIT WITH DISCONNECT SWITCH FOR ALL PTAC'S. CONCEAL ALL ELECTRICAL CONNECTIONS WITH-IN KIT.
2. 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

INDOOR UNIT DATA																			OUTDOOR UNIT DATA				
INDOOR UNIT NO.	QUANTITY	OUTDOOR UNIT NO.	QUANTITY	MITSUBISHI MODEL NO.	VOLTAGE	MOUNTING	COOLING DATA				HEATING DATA				MITSUBISHI MODEL NO.	VOLTAGE	MCA	MOCP	REMARKS				
							TOTAL M.B.H.	ENT. AIR DB° F	WB° F	SEER A.R.I.	TOTAL M.B.H.	ENT. AIR DB° F	WB° F	HSPF									
AHU-6	1	HP-6	1	TPKAA0181LA10A	208/1/60	WALL	18	72	60	20.2	22.0	72	60	9.2	TRUZA0181KA70NA	208/1/60	11	28	1,2,3				
AHU-7	1	HP-7	1	TPKAA0181LA10A	208/1/60	WALL	18	72	60	20.2	22.0	72	60	9.2	TRUZA0181KA70NA	208/1/60	11	28	1,2,3				
AHU-8	1	HP-8	1	PKA-AL18NL	208/1/60	WALL	18	72	60	19.5	22.0	72	60	8.9	PUZ-AK18NL	208/1/60	16	27	1,2,3				

- 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. PROVIDE ALL NECESSARY ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.

FAN SCHEDULE

MARK	AREA SERVED	TYPE	SERVICE	MANUFACTURER	MODEL NO.	CAPACITY		HP (WATTS)	ELECTRICAL	REMARKS	OPERATING NOTES	COMMENTS
						CFM	ESP					
EF-1	TOILET	CEILING	EXHAUST	GREENHECK	SP-B90	70	0.25	(21)	115/1/60	1	1	-
EF-2	TOILET	CEILING	EXHAUST	GREENHECK	SP-B90	70	0.25	(21)	115/1/60	1	1	-
EF-3	TOILET	CEILING	EXHAUST	GREENHECK	SP-B90	70	0.25	(21)	115/1/60	1	1	-
EF-4	TOILET	CEILING	EXHAUST	GREENHECK	SP-B150	140	0.25	(128)	115/1/60	1	2	-
EF-5	ELECTRICAL RM	INLINE	EXHAUST	GREENHECK	CSP-A510-VG	400	0.25	(73)	115/1/60	3	3	-
EF-6	HOUSEKEEPING	CEILING	EXHAUST	GREENHECK	SP-B200	200	0.25	(172)	115/1/60	1	3	-
EF-7	HOUSEKEEPING	CEILING	EXHAUST	GREENHECK	SP-B200	200	0.25	(172)	115/1/60	1	3	-
EF-8	HOUSEKEEPING	CEILING	EXHAUST	GREENHECK	SP-B200	200	0.25	(172)	115/1/60	1	3	-
EF-9	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	300	0.5	1/6	115/1/60	2,4	4	-
EF-10	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	300	0.5	1/6	115/1/60	2,4	4	-
EF-11	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	350	0.5	1/6	115/1/60	2,4	4	-
EF-12	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	300	0.5	1/6	115/1/60	2,4	4	-
EF-13	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	300	0.5	1/6	115/1/60	2,4	4	-
EF-14	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	525	0.5	1/6	115/1/60	2,4	4	-
EF-15	GUEST ROOMS	ROOF	EXHAUST	GREENHECK	G-095-VG	400	0.5	1/6	115/1/60	2,4	4	-

- REMARKS:
1. PROVIDE WALL CAP, DISCONNECT SWITCH, BACKDRAFT DAMPER, AND SPEED CONTROLLER.
2. PROVIDE ROOF CURB, BACKDRAFT DAMPER, DISCONNECT SWITCH, AND VARI-GREEN MOTOR.
3. PROVIDE VARI GREEN MOTOR, ISOLATION KIT, MOUNTING BRACKETS, BACKDRAFT DAMPER, AND DISCONNECT.
4. EXHAUST FANS TO BE PROVIDE BACK UP POWER FROM UPS.

OPERATING NOTES:
1. INTERLOCK WITH LIGHTS.
2. INTERLOCK WITH AHU-1.
3. THERMOSTATICALLY CONTROLLED.
4. RUNS CONTINUOUSLY.

NOTE:
ALL INTERLOCK WIRING BY MECHANICAL CONTRACTOR.

VENTILATION CALCULATION

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 -VBZ (CFM) (OCCUPANCY + AREA)	ACTUAL DESIGN O.A. (CFM)	UNITS SERVED BY
FITNESS ROOM	933	560	5	0.06	20	100	34	134	140	AHU-1
LOBBY	1715	1030	30	0.06	7.5	225	62	287	300	AHU-2
REGISTRATION, ETC.	1268	761	20	0.06	7.5	150	46	196	200	AHU-3
BREAKFAST, ETC.	936	562	20	0.06	7.5	150	34	184	200	AHU-4
LAUNDRY, ETC.	834	500	10	0.12	7.5	75	60	135	150	AHU-5
TYPICAL GUEST ROOM	546	328	2	0.06	5	10	20	30	35	PTAC-A

100% OUTSIDE AIR UNIT SCHEDULE

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 SEE NOTES
					V/PH/HZ	MCA	MAX FUSE	COMP RLA	EVAP FAN FLA	COND FAN FLA	E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	COND. °F	SENSIBLE MBH	TOTAL MBH	E.D.B. °F	L.D.B. °F	INPUT MBH	OUTPUT MBH	—	TOTAL CAPACITY MBH				
MAU-1	3730	3730	1.5	3	208/3/60	133.3	175	2 @ 49	8	3 @ 4.2	89.7	78.4	48.1	47.3	95	165.3	368.1	23	93.1	350	283.5	—	—	TRANE/HORIZON D030 – OADG030A1	9.9	3800	1,2
MAU-2	2725	2725	1.5	1.5	208/3/60	111.6	150	2 @ 41	4.8	3 @ 4.2	89.7	78.4	46.4	45.2	95	125.5	282.0	23	91.5	250	202.5	—	—	TRANE/HORIZON D025 – OADG025A1	11.0	3800	1,2

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.



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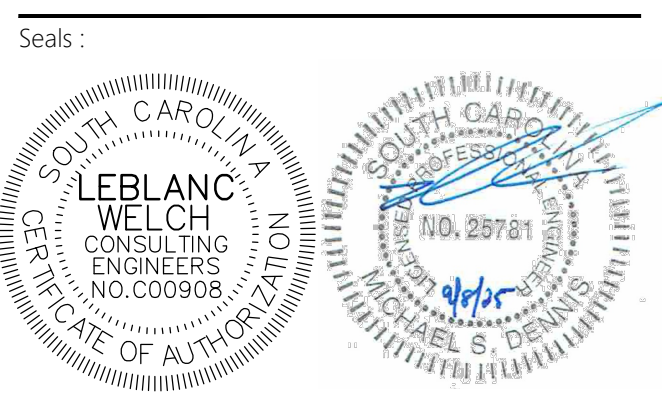
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ELECTRICAL
Matrix Engineering, INC
912 S Pine Street
Spartanburg, SC 29302
864.583.6274

Project Title:
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GREENWOOD SC**
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

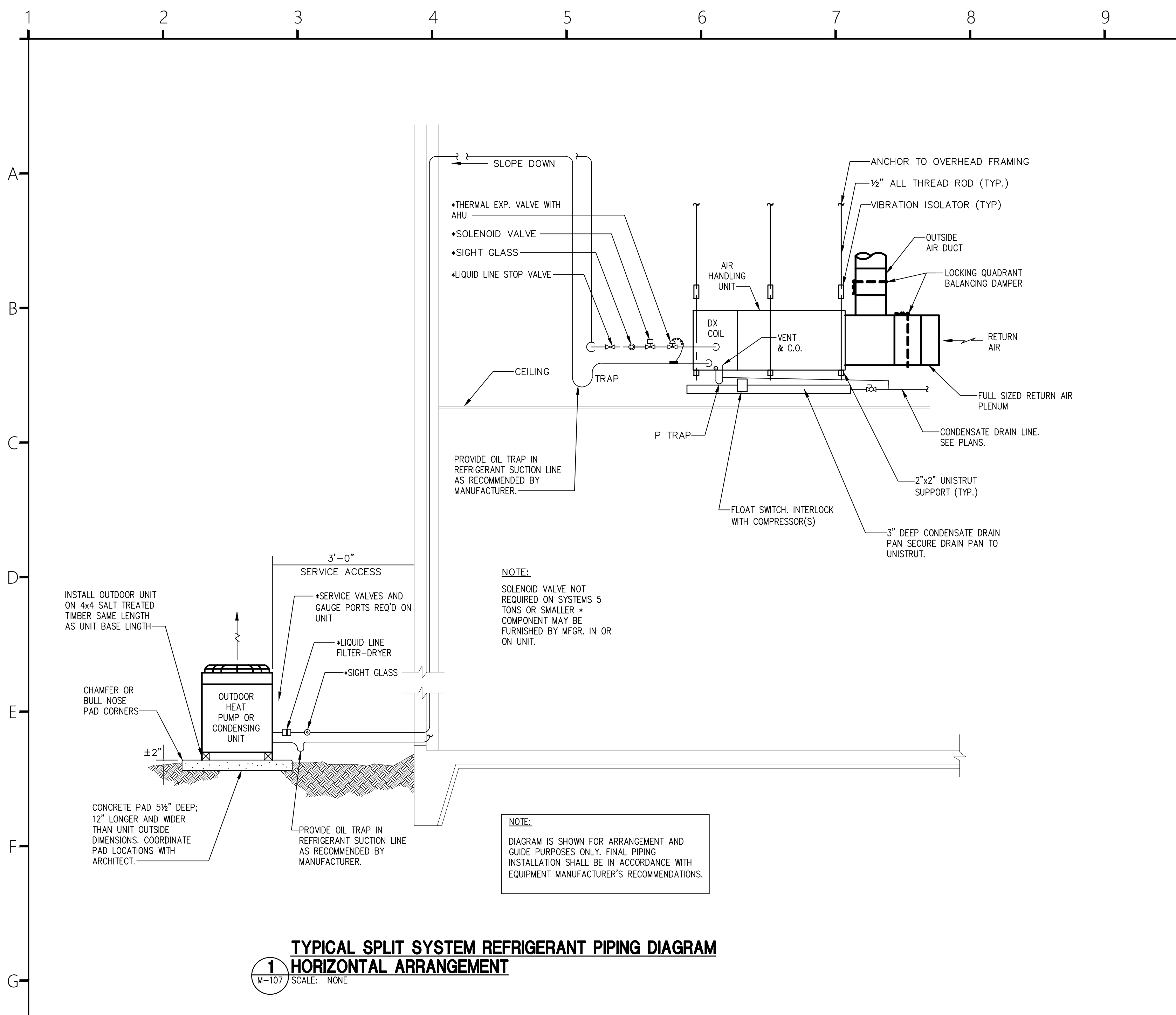
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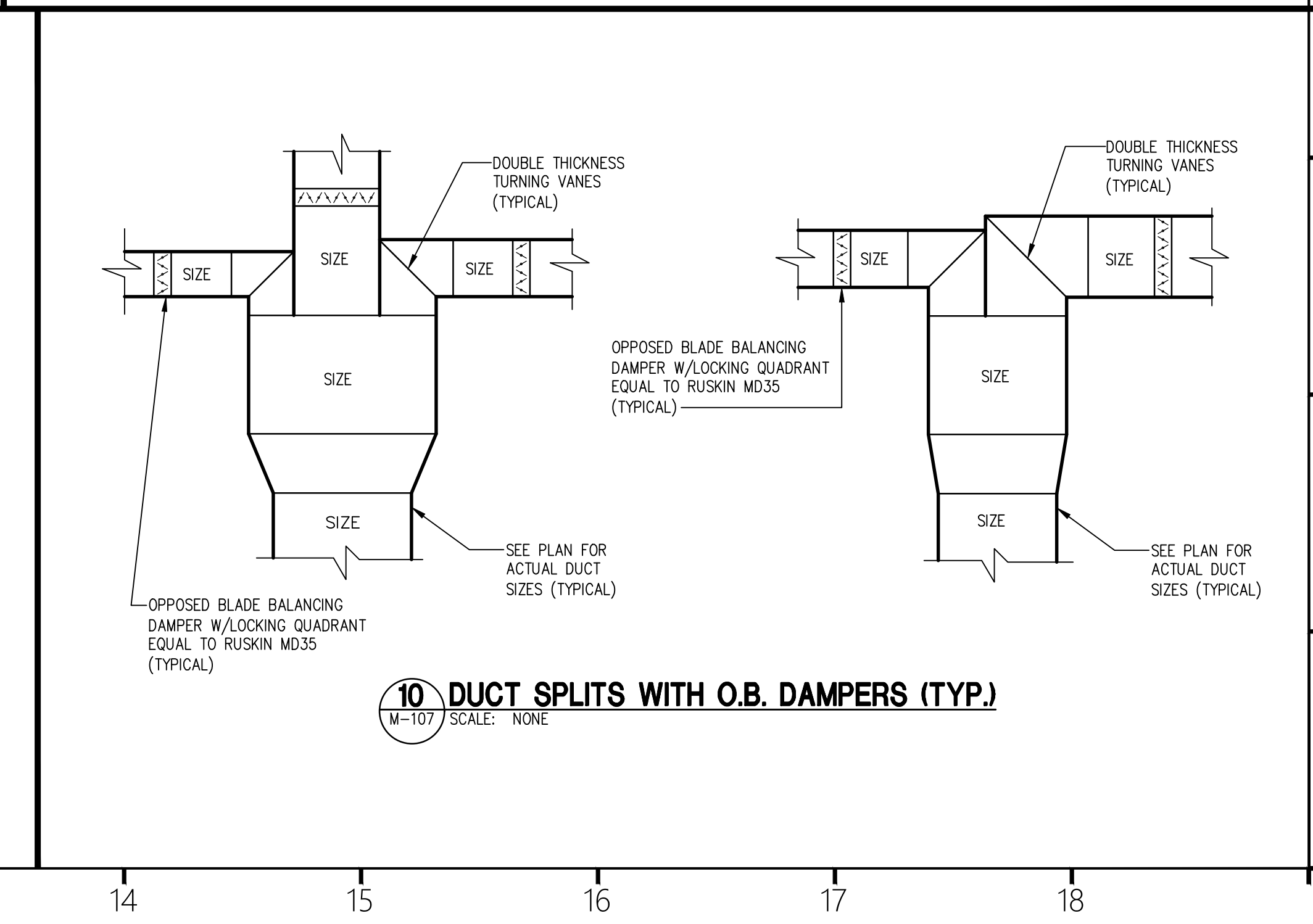
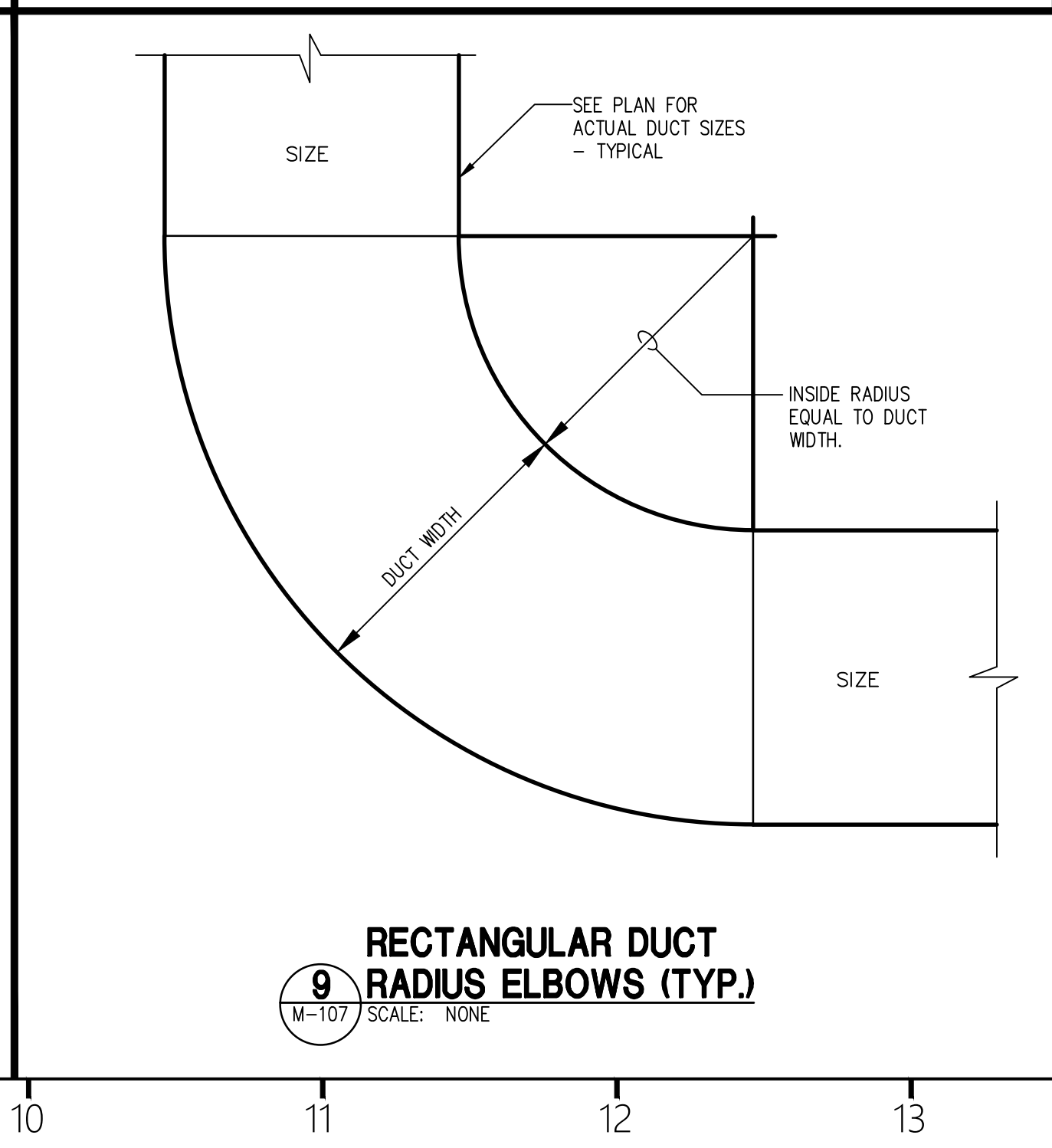
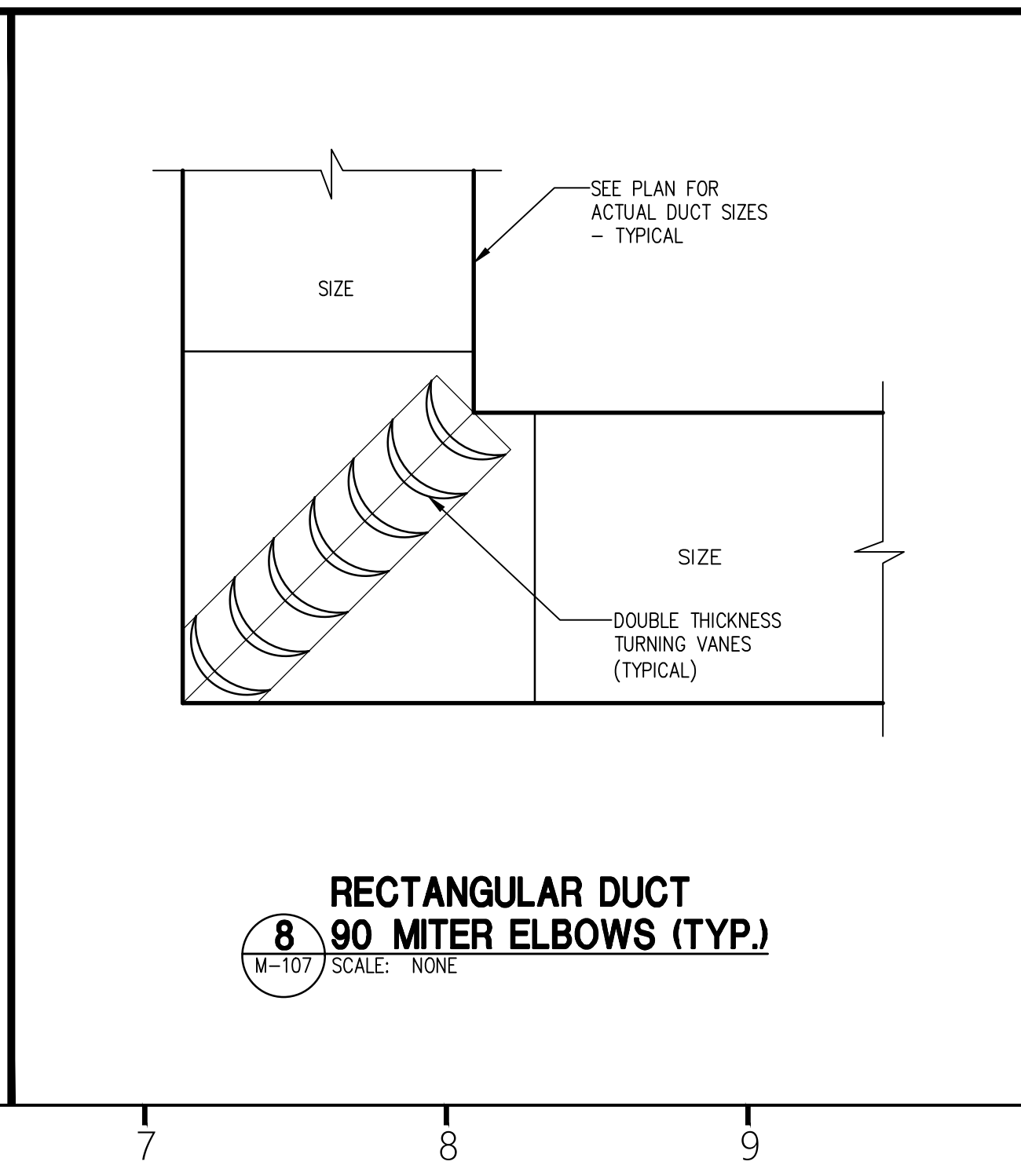
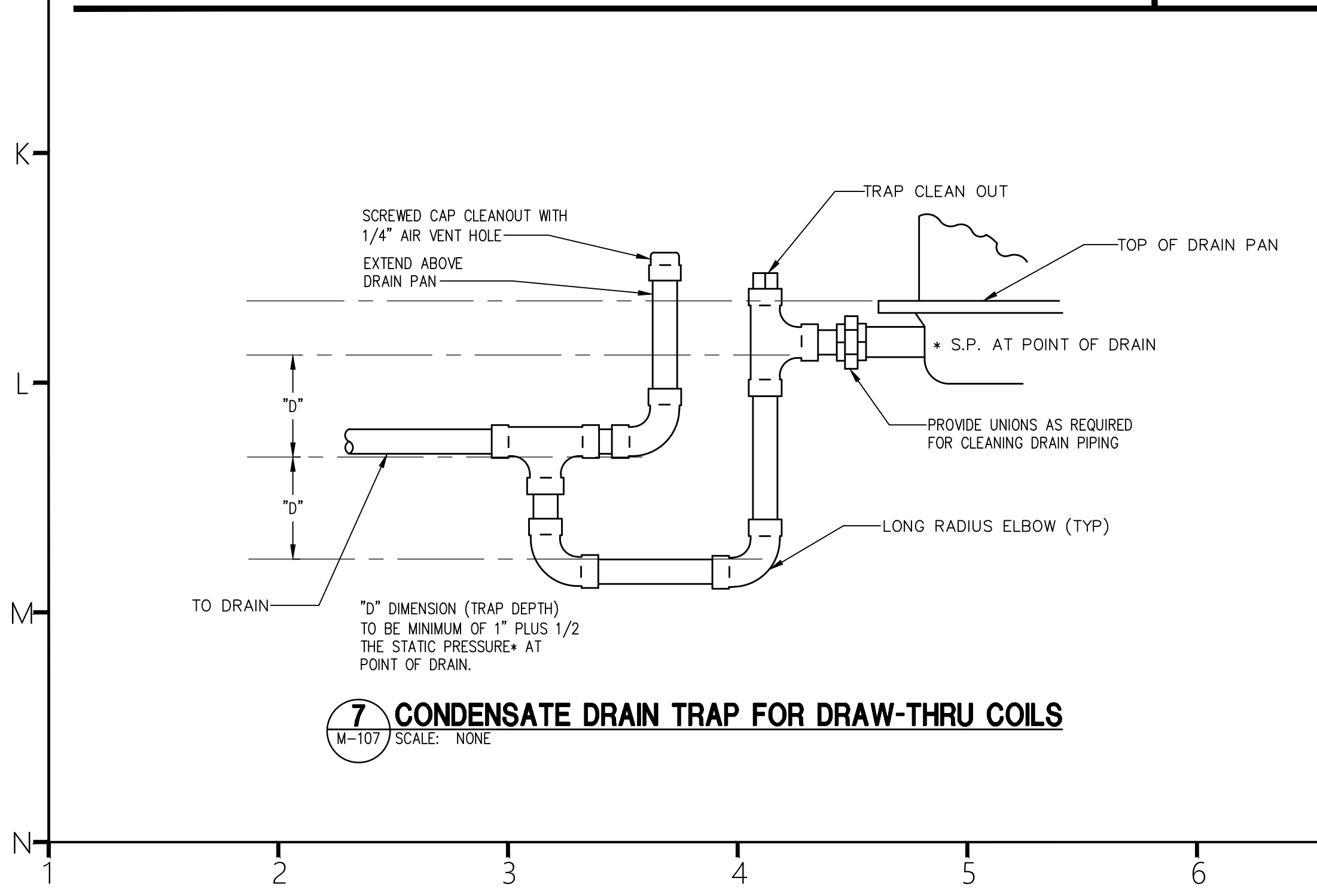
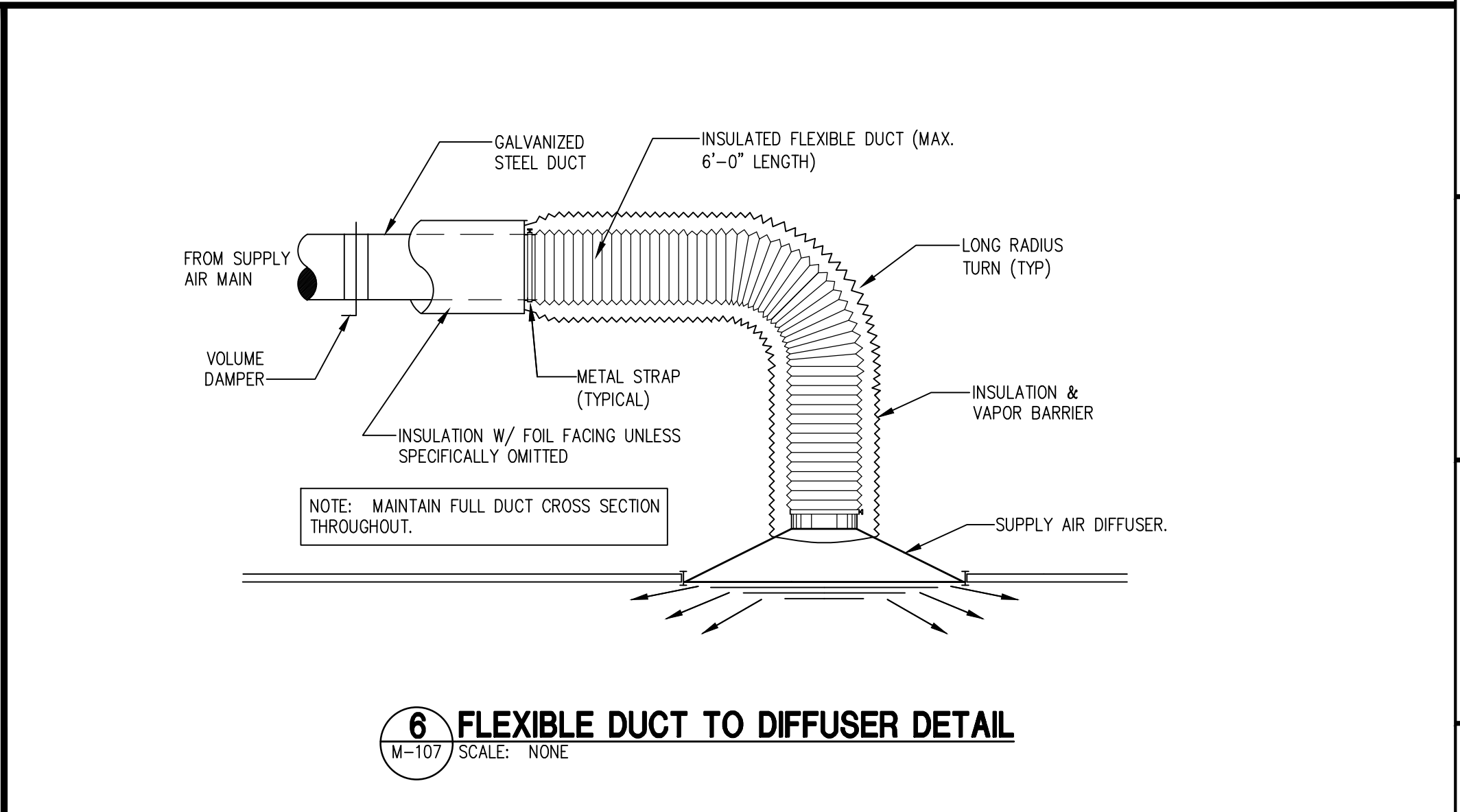
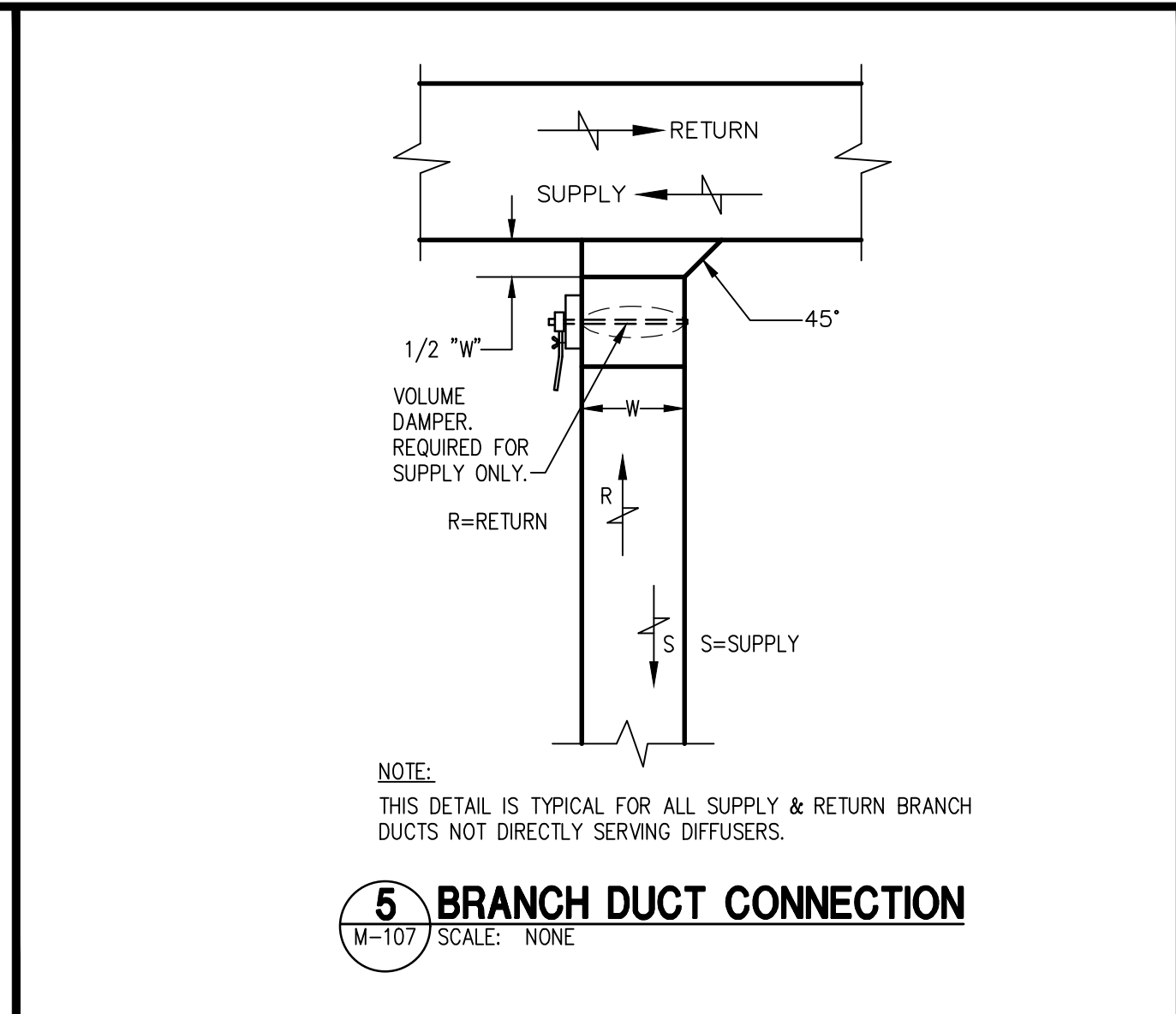
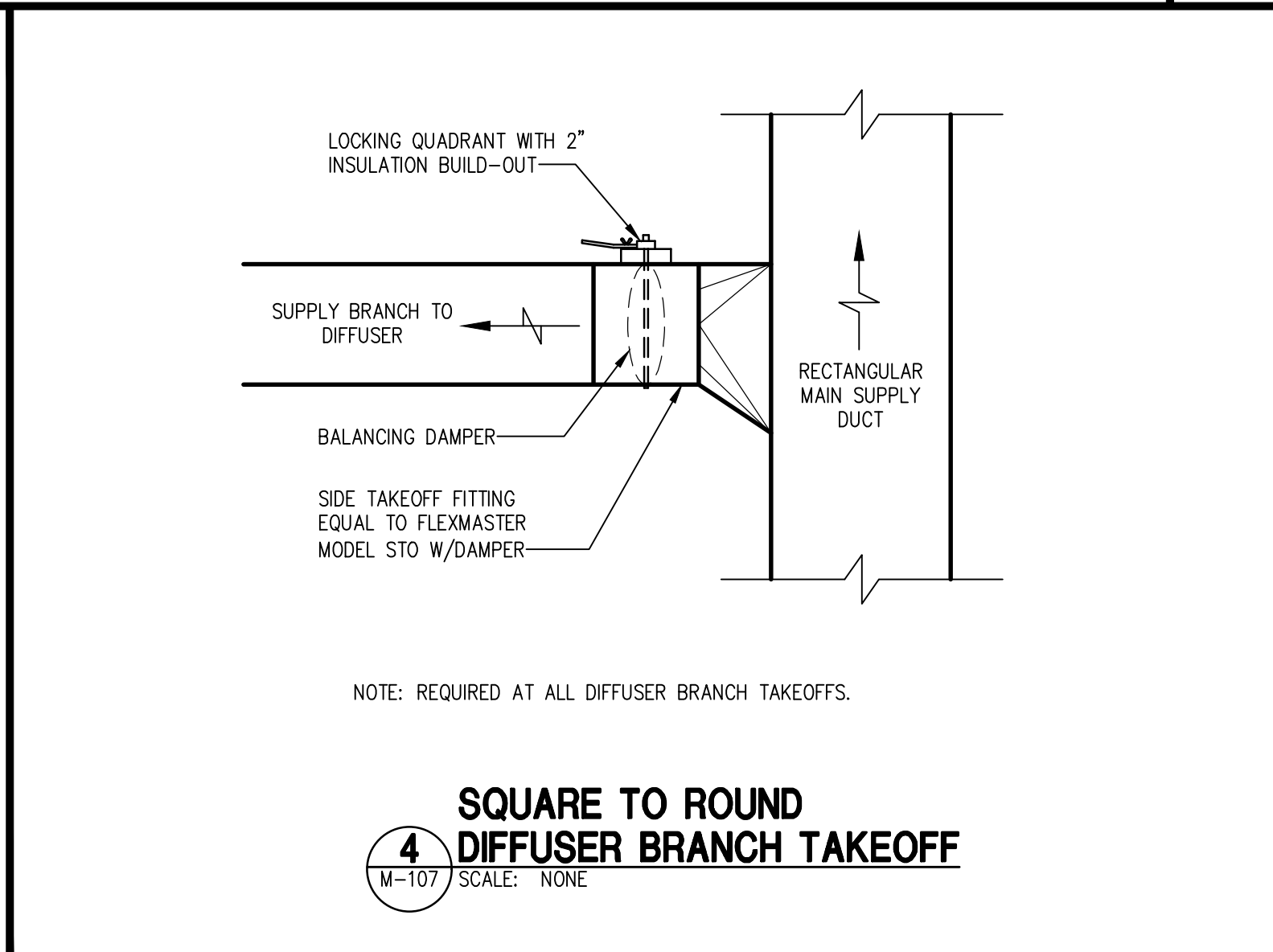
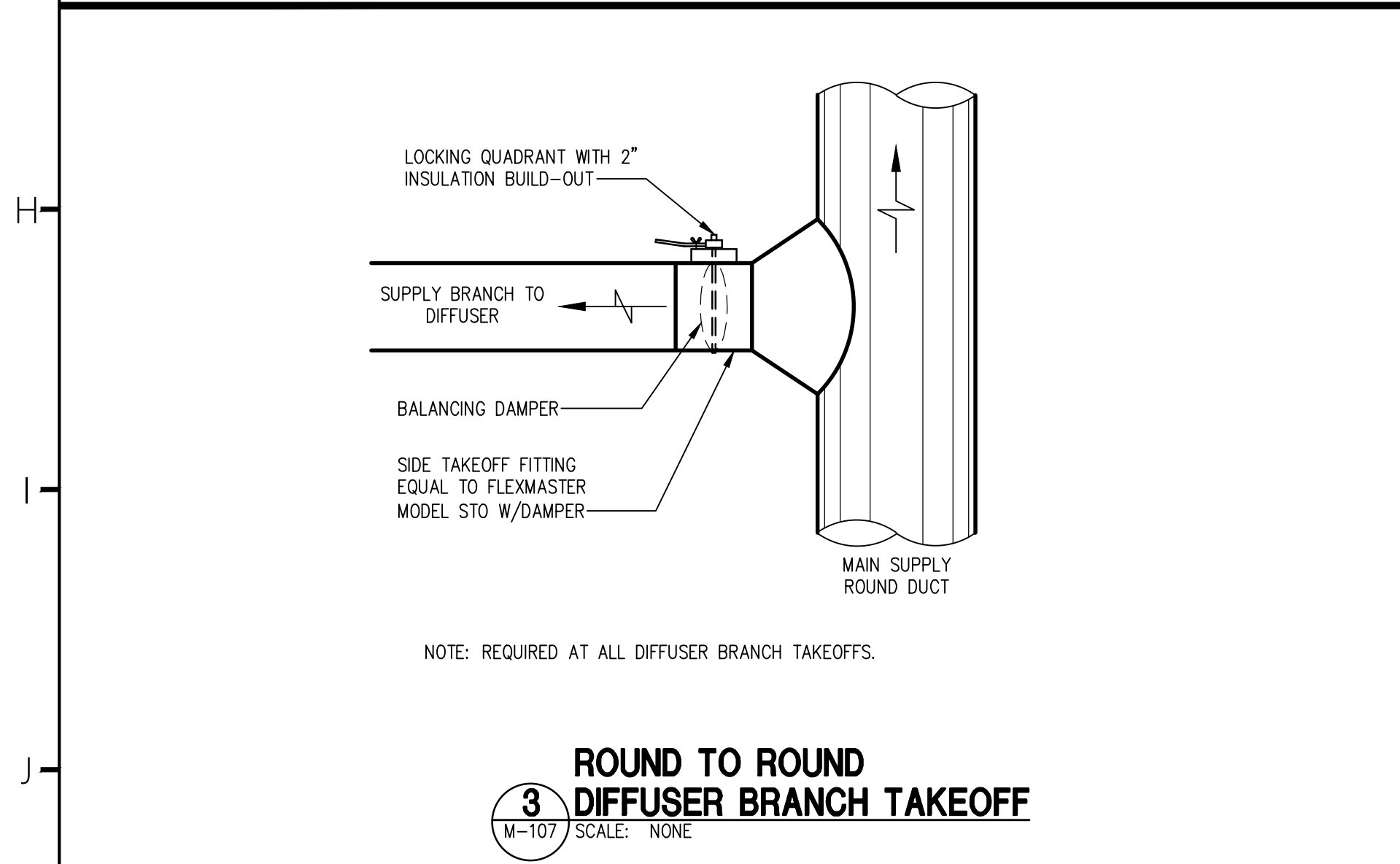
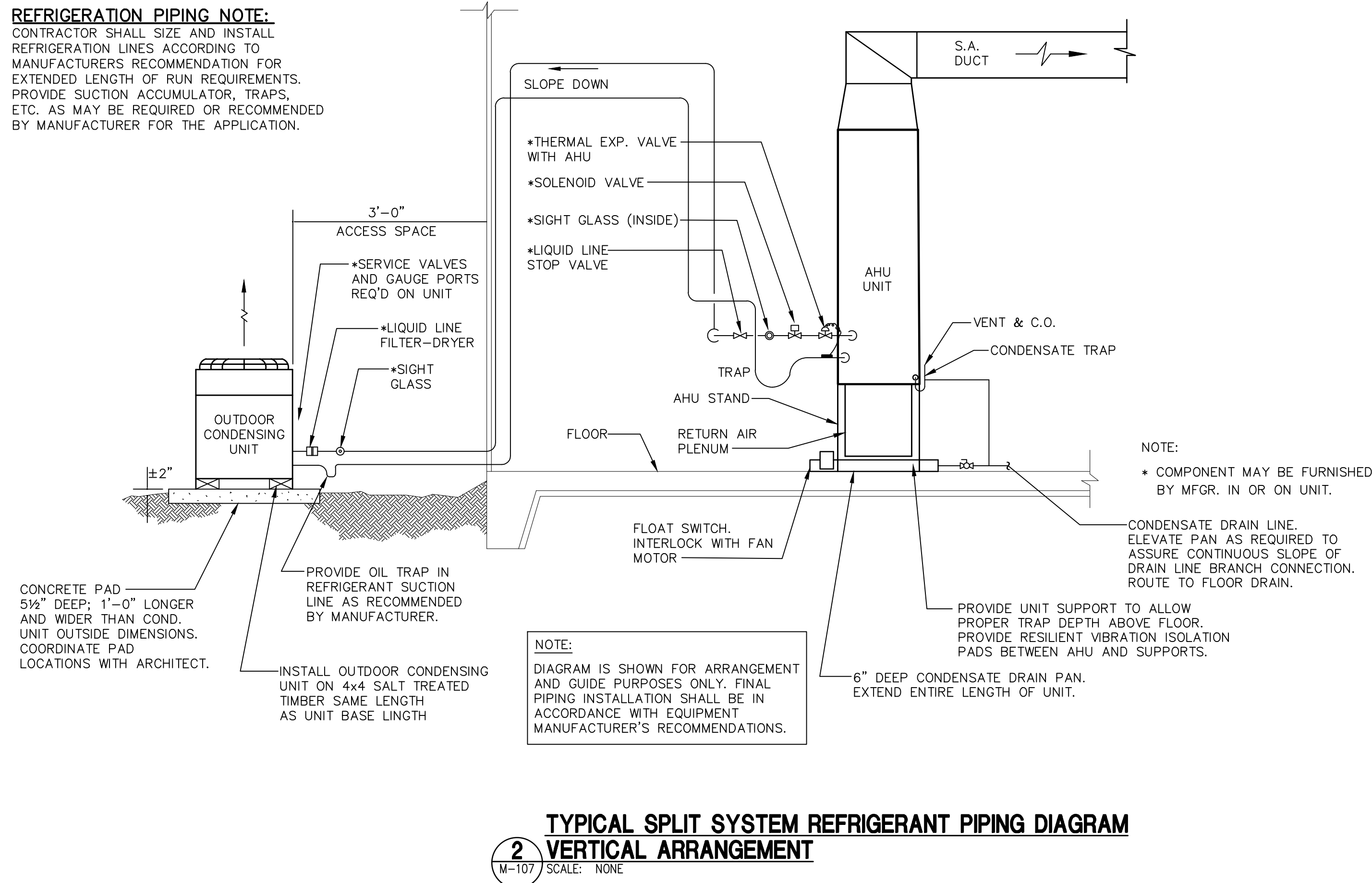
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10.16.2024 Issue For Permit
A 03.20.2025 100% Issue For Hilton
D 09.08.2025 Client Comments

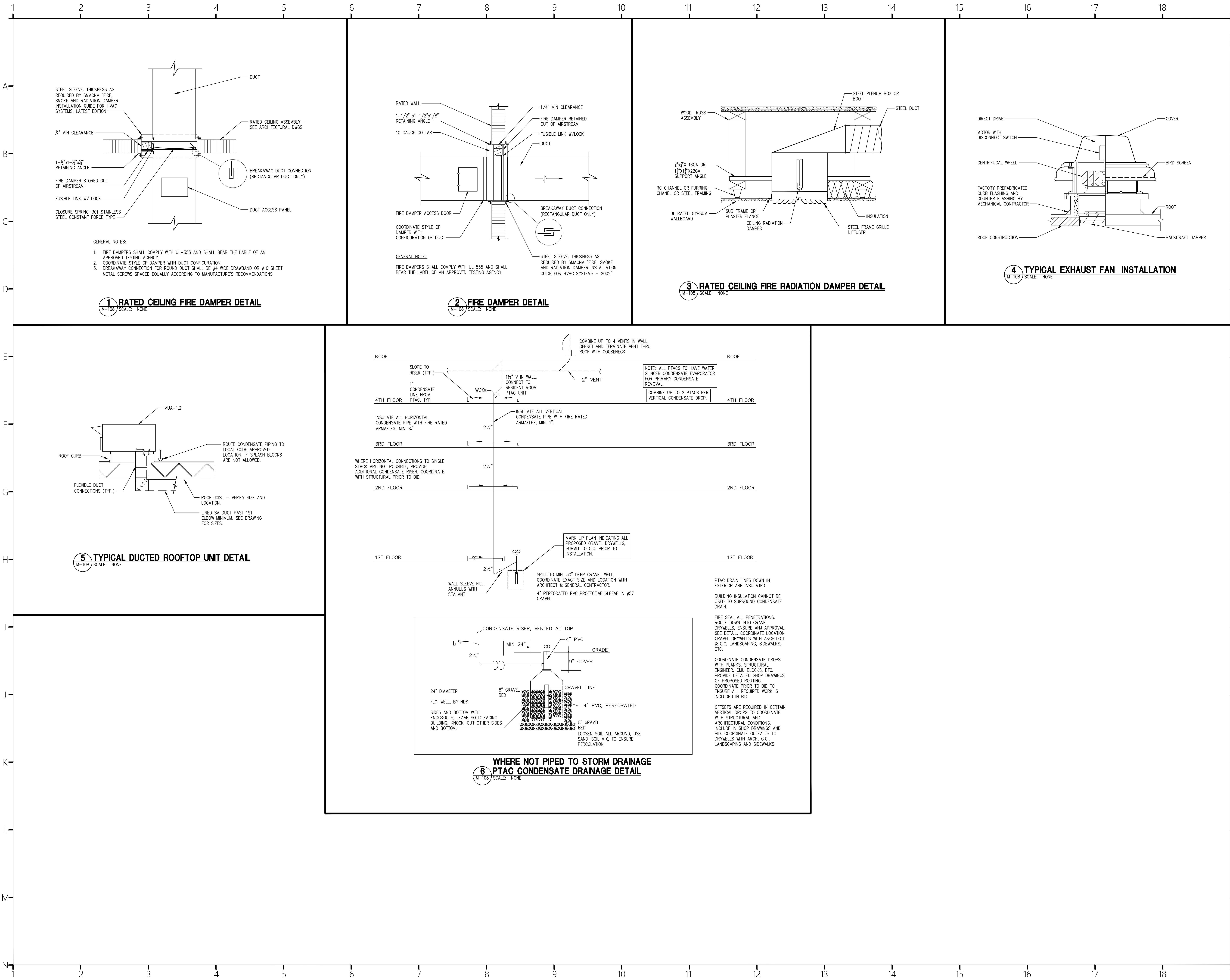
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Date:
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Drawn By:
DCB
Checked By:
LWI

Sheet Number:
M-107
Sheet Title:
HVAC DETAILS



REFRIGERATION PIPING NOTE:
CONTRACTOR SHALL SIZE AND INSTALL REFRIGERATION LINES ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR EXTENDED LENGTH OF RUN REQUIREMENTS. PROVIDE SUCTION ACCUMULATOR, TRAPS, ETC. AS MAY BE REQUIRED OR RECOMMENDED BY MANUFACTURER FOR THE APPLICATION.





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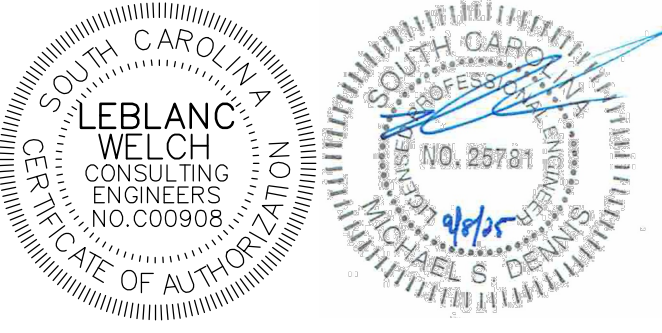
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