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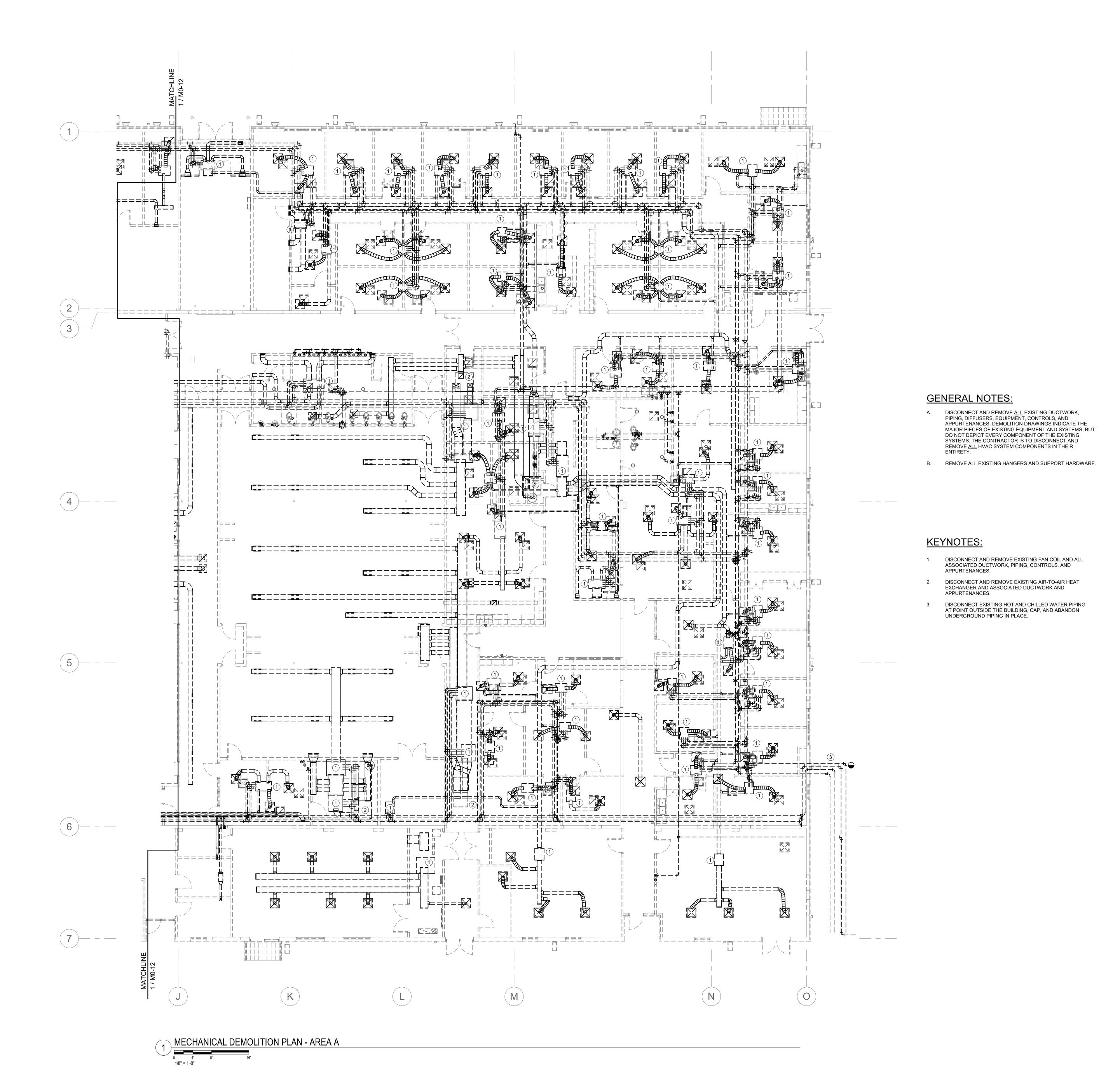
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LEAD SHEET

21029 16 OCT. 2024

10-01



ARCHITECTURE

T 919 781 8582 F 919 781 3979 4600 Lake Boone Trail Suite 205 Raleigh, NC 27607

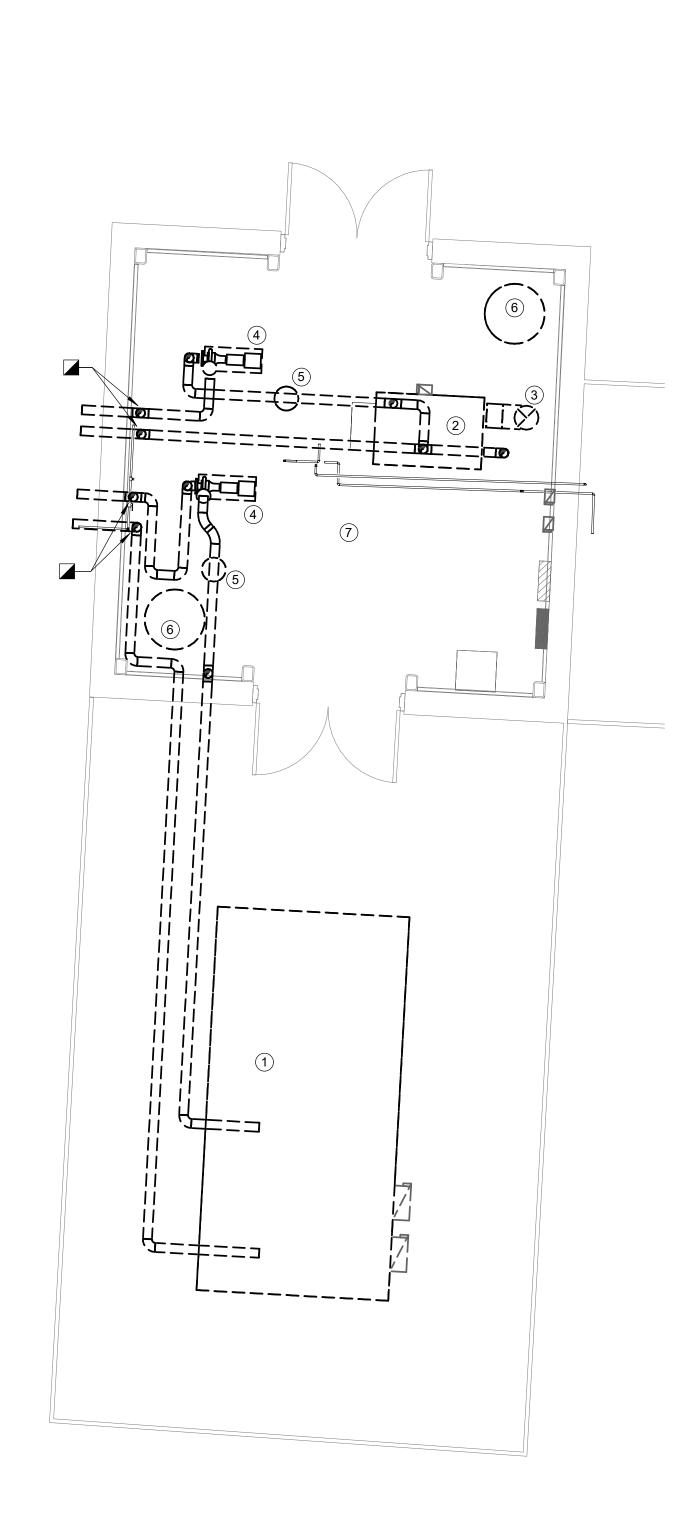


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DRAWN BY: CHECKED BY: **DEMOLITION PLAN -**AREA A

16 OCT. 2024 2021029

M0-11

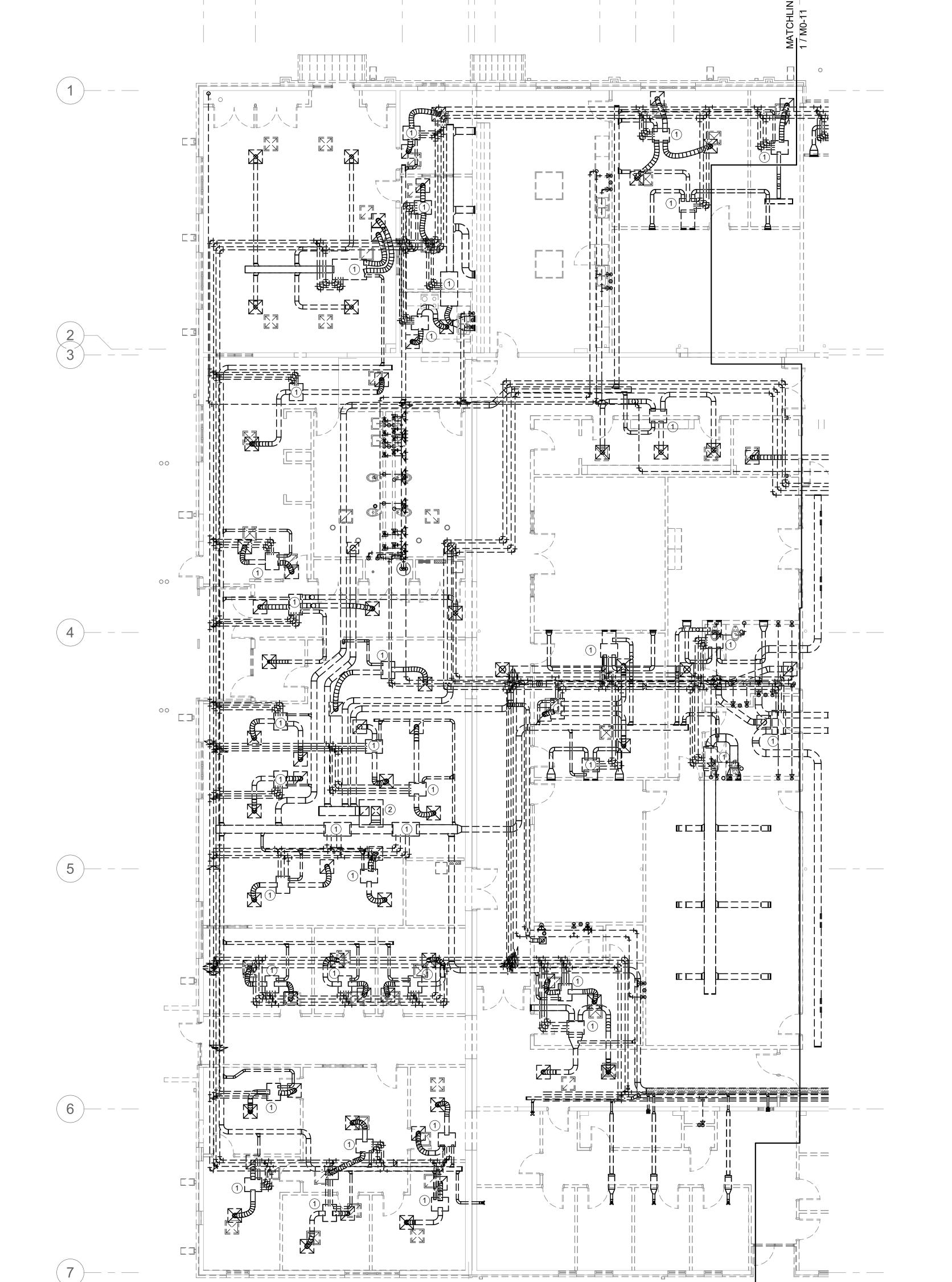


DEMOLITION PLAN - MECHANICAL BUILDING

KEYNOTES:

- DISCONNECT CHILLER FROM EXISTING PIPING AND ELECTRICAL CONNECTIONS. REMOVE CHILLER AND ALL APPURTENANCES.
- DISCONNECT EXISTING BOILER FROM EXISTING PIPING,
- FLUE, AND FUEL SOURCE AND COMPLETE REMOVE.
- REMOVE BOILER FLUE.
- DISCONNECT AND REMOVE EXISTING PUMP.
- DISCONNECT AND REMOVE EXISTING AIR SEPARATOR.
- DISCONNECT AND REMOVE EXISTING EXPANSION TANK. DISCONNECT AND REMOVE ALL EXISTING CHILLED
- WATER AND HOT WATER PIPING. REMOVE EXISTING MAKEUP WATER ASSEMBLIES. CAP ABANDONED UNDERGROUND PIPING FLUSH WITH FLOOR.

- DISCONNECT AND REMOVE <u>ALL</u> EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, AND APPURTENANCES. EVERY COMPONENT OF THE EXISTING SYSTEMS. THE
- REMOVE ALL EXISTING HANGERS AND SUPPORT HARDWARE.



MECHANICAL DEMOLITION PLAN - AREA A

GENERAL NOTES:

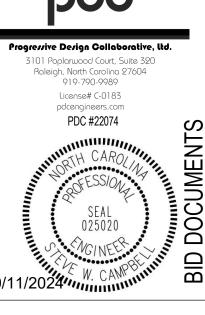
- DISCONNECT AND REMOVE <u>ALL</u> EXISTING DUCTWORK, PIPING, DIFFUSERS, EQUIPMENT, CONTROLS, AND APPURTENANCES. DEMOLITION DRAWINGS INDICATE THE MAJOR PIECES OF EXISTING EQUIPMENT AND SYSTEMS, BUT DO NOT DEPICT EVERY COMPONENT OF THE EXISTING SYSTEMS. THE CONTRACTOR IS TO DISCONNECT AND REMOVE ALL HVAC SYSTEM COMPONENTS IN THEIR
- B. REMOVE ALL EXISTING HANGERS AND SUPPORT HARDWARE.

KEYNOTES:

- DISCONNECT AND REMOVE EXISTING FAN COIL AND ALL ASSOCIATED DUCTWORK, PIPING, CONTROLS, AND APPURTENANCES.
- DISCONNECT AND REMOVE EXISTING AIR-TO-AIR HEAT EXCHANGER AND ASSOCIATED DUCTWORK AND APPURTENANCES.

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AREA B

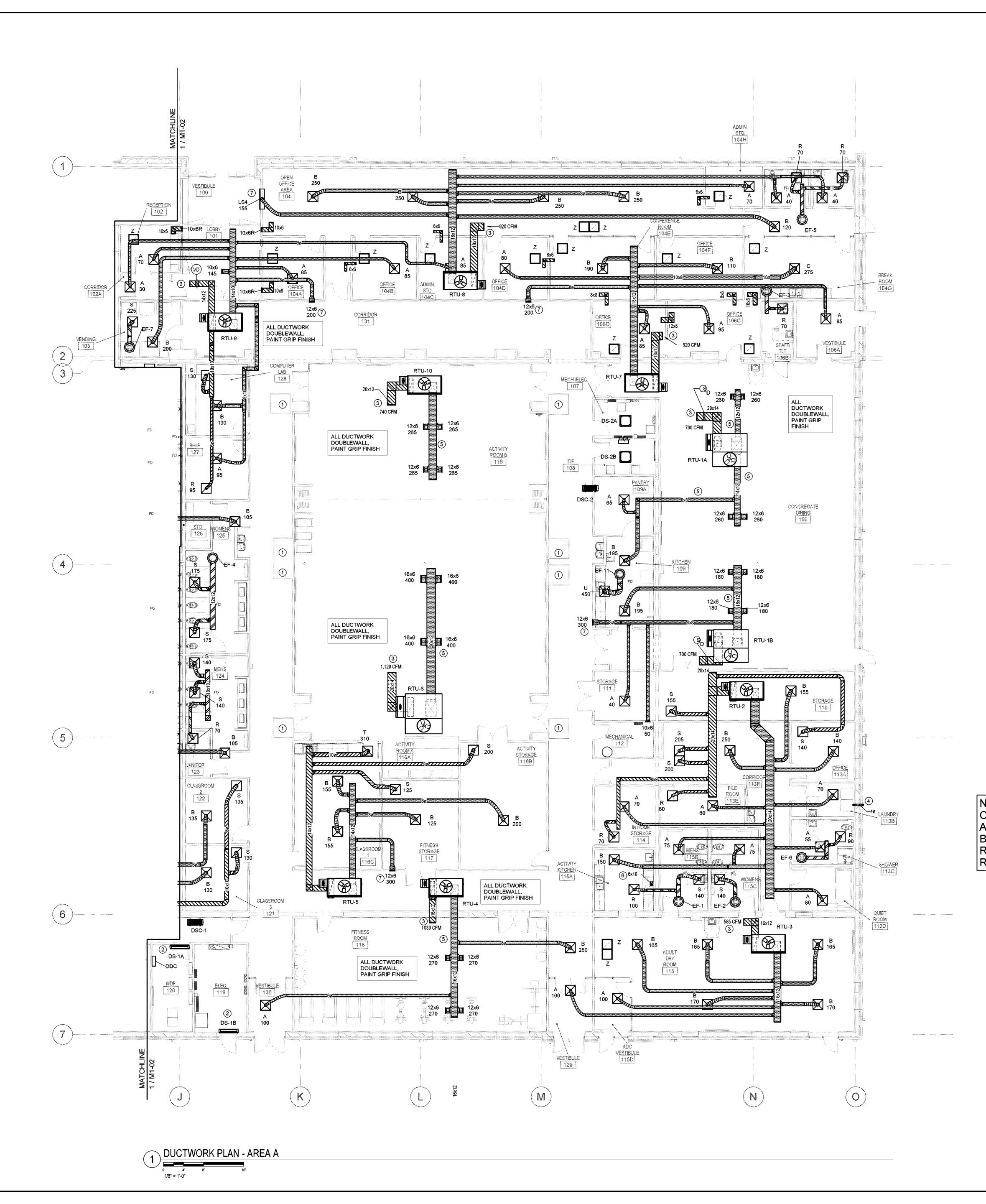
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M0-12

GENERAL NOTES:

DEMOLITION DRAWINGS INDICATE THE MAJOR PIECES OF EXISTING EQUIPMENT AND SYSTEMS, BUT DO NOT DEPICT CONTRACTOR IS TO DISCONNECT AND REMOVE ALL HVAC SYSTEM COMPONENTS IN THEIR ENTIRETY...

ABANDON EXISTING UNDERGROUND HYDRONIC PIPING.





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NOTE: UNLESS INDICATED OTHERWISE, IT IS INTENDED TO RUN ALL DUCTWORK <u>ABOVE</u> THE BOTTOM CHORD TO THE JOISTS. ALL RUNOUTS TO DIFFUSERS ARE TO BE RUN THROUGH THE JOIST WEBBING.

GENERAL NOTES:

CEILING SPACE.

OTHERWISE.

SCHEDULES.

KEYNOTES:

EXISTING SKYLIGHT.

UNIT TO BE LOCATED ABOVE DOOR.

COVER DUCT WITH MESH HARDWARE CLOTH.

PROVIDE DRYER VENT BOX AND EXTEND 4" DRYER VENT THROUGH WALL. TERMINATE WITH CAP.

PROVIDE VENT FOR HOOD. TERMINATE THROUGH ROOF WITH VAULT PENTHOUSE OR EQUIVALENT AND BACKDRAFT DAMPER.

HEIGHT OF WALL DIFFUSER TO BE COORDINATED WITH ARCHITECT.

ALL DUCTWORK THIS ROOM SHALL BE DOUBLE-WALL CONSTRUCTION WITH PAINT GRIP FINISH.

AND EASILY ACCESSIBLE.

ALL DUCT DIMENSIONS ARE INSIDE CLEAR.

PROVIDE BALANCING DAMPERS ON ALL LOW PRESSURE SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS AND RUNOUTS. ALL BALANCING DAMPERS SHALL BE IDENTIFIED

ABOVE HARD CEILINGS, PROVIDE BALANCING DAMPER IN GALVANIZED STEEL DUCT WITHIN 30" OF DIFFUSER/GRILLE. PROVIDE ACCESSORY ALUMINUM MOUNT FRAME/PLASTER

FRAME FOR HARD CEILING THAT ALLOWS DIFFUSER WITH FLEX CONNECTION TO BE LIFTED OUT OF FRAME TO ACCESS

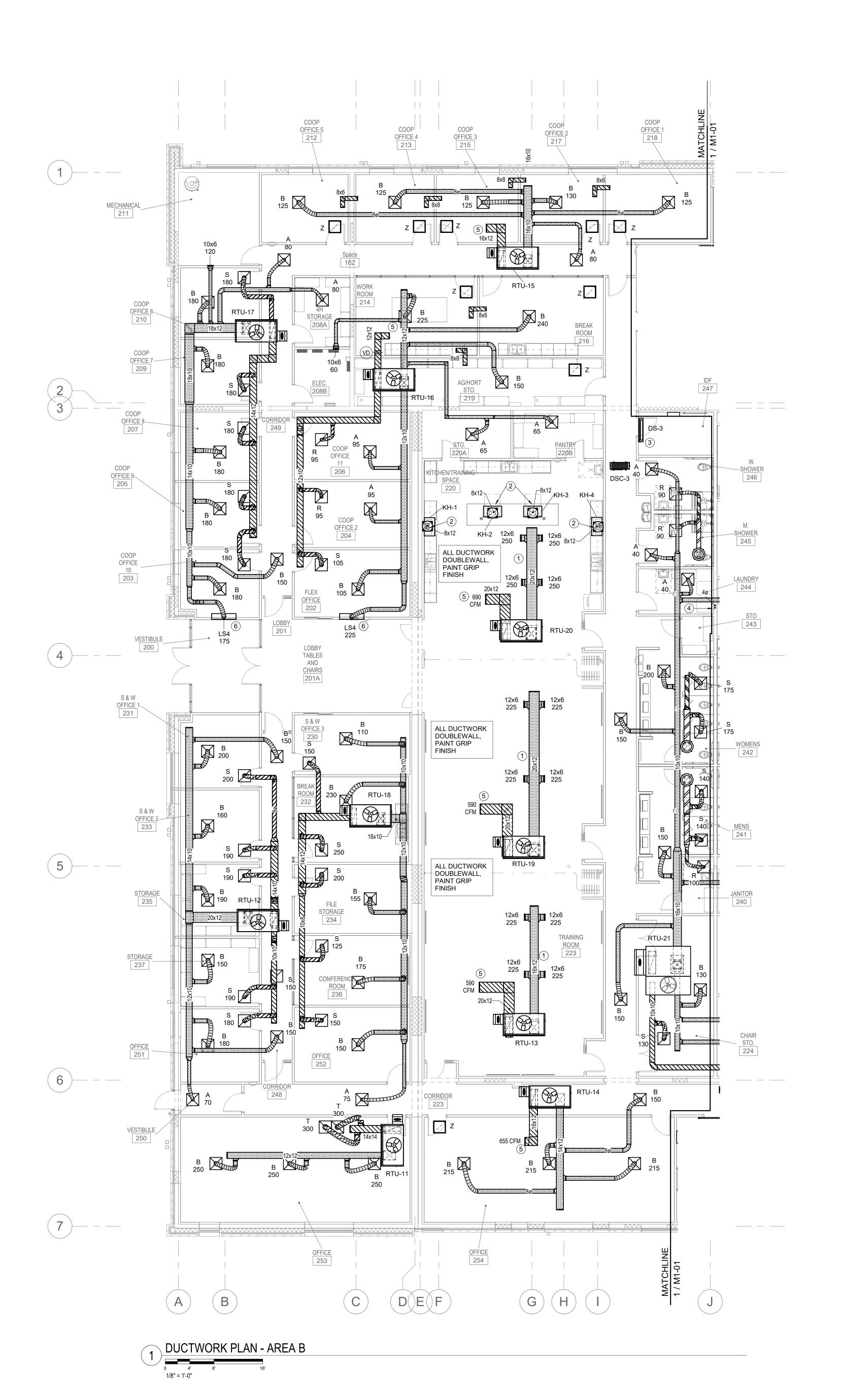
ALL DUCTWORK INSTALLED EXPOSED TO VIEW SHALL HAVE PAINT GRIP FINISH. COORDINATE PAINTING OF ALL EXPOSED DUCTWORK WITH ARCHITECTURE FINISH DRAWINGS AND

BRANCH RUNOUTS TO DIFFUSERS SHALL BE THE SIZE LISTED ON THE AIR TERMINAL SCHEDULE, UNLESS NOTED

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M1-01





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KEYNOTES:

GENERAL NOTES:

AND EASILY ACCESSIBLE.

CEILING SPACE.

ALL DUCT DIMENSIONS ARE INSIDE CLEAR.

D. BRANCH RUNOUTS TO DIFFUSERS SHALL BE THE SIZE

PROVIDE BALANCING DAMPERS ON ALL LOW PRESSURE SUPPLY, RETURN, AND EXHAUST BRANCH DUCTS AND RUNOUTS. ALL BALANCING DAMPERS SHALL BE IDENTIFIED

ABOVE HARD CEILINGS, PROVIDE BALANCING DAMPER IN GALVANIZED STEEL DUCT WITHIN 30" OF DIFFUSER/GRILLE.

PROVIDE ACCESSORY ALUMINUM MOUNT FRAME/PLASTER FRAME FOR HARD CEILING THAT ALLOWS DIFFUSER WITH FLEX CONNECTION TO BE LIFTED OUT OF FRAME TO ACCESS

LISTED ON THE AIR TERMINAL SCHEDULE, UNLESS NOTED

DUCTWORK WITH ARCHITECTURE FINISH DRAWINGS AND SCHEDULES.

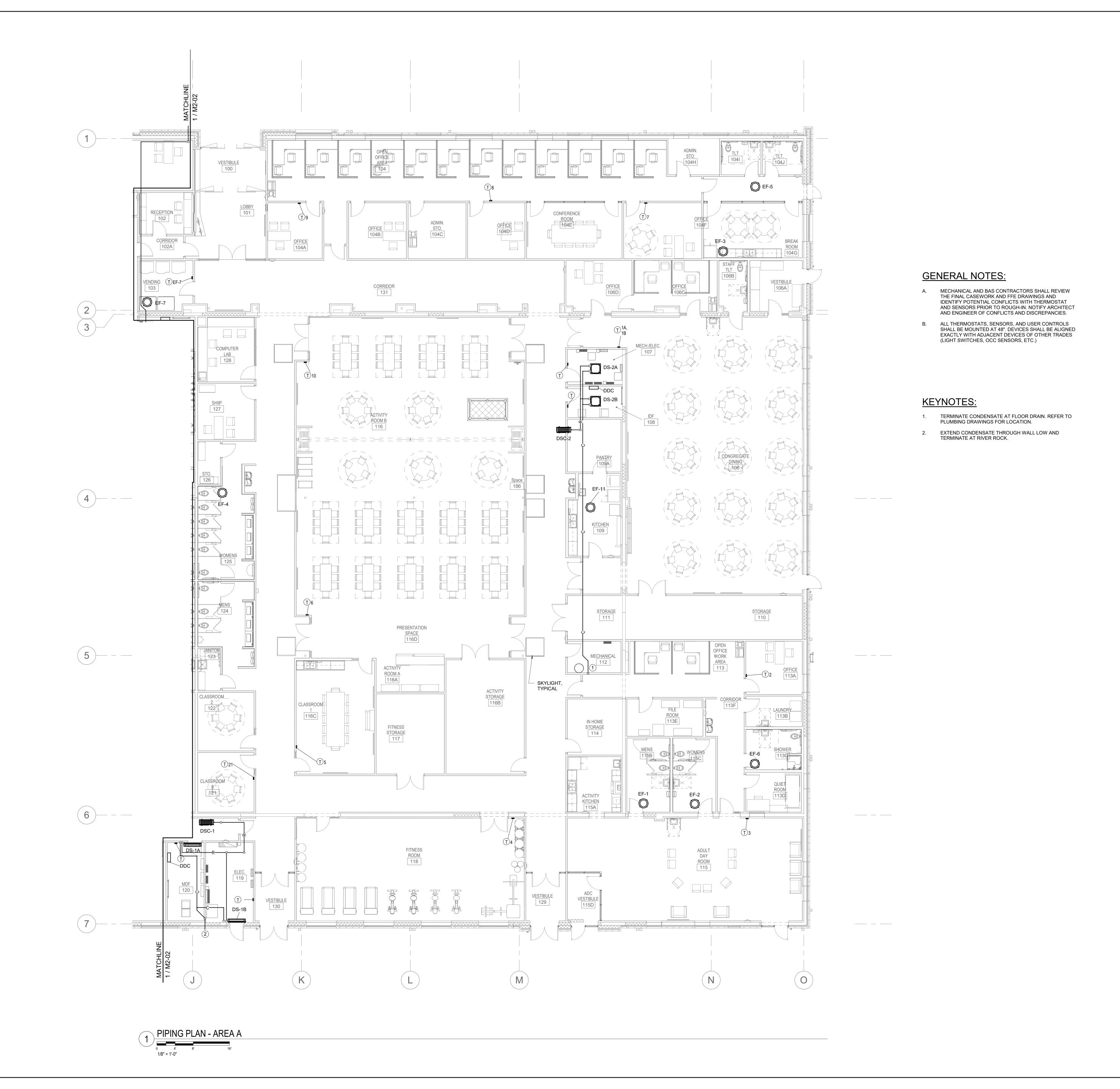
E. ALL DUCTWORK INSTALLED EXPOSED TO VIEW SHALL HAVE PAINT GRIP FINISH. COORDINATE PAINTING OF ALL EXPOSED

- ALL DUCT IN THIS ROOM SHALL BE DOUBLE WALL CONSTRUCTION WITH PAINT GRIP FINISH.
- PROVIDE HOOD FOR RESIDENTIAL RANGE. REFER TO SCHEDULE. FOR MOUNTING HEIGHT, REFER TO ARCHITECTURAL DRAWINGS. PROVIDE EXHAUST DUCT FROM HOOD. ROUTE TO ROOF HOOD.
- MOUNT UNIT ABOVE DOOR.
- PROVIDE DRYER VENT BOX AND EXTEND 4" DRYER VENT THROUGH ROOF. TERMINATE WITH BACKDRAFT DAMPER
- 5. COVER END OF DUCT WITH MESH HARDWARE CLOTH.
- HEIGHT OF WALL DIFFUSER TO BE COORDINATED WITH

NOTE: UNLESS INDICATED OTHERWISE, IT IS INTENDED TO RUN ALL DUCTWORK ABOVE THE BOTTOM CHORD TO THE JOISTS. ALL RUNOUTS TO DIFFUSERS ARE TO BE RUN THROUGH THE JOIST WEBBING.

> DRAWN BY: CHECKED BY: DUCTWORK PLAN -AREA B

16 OCT. 2024 M1-02



smith sinnett

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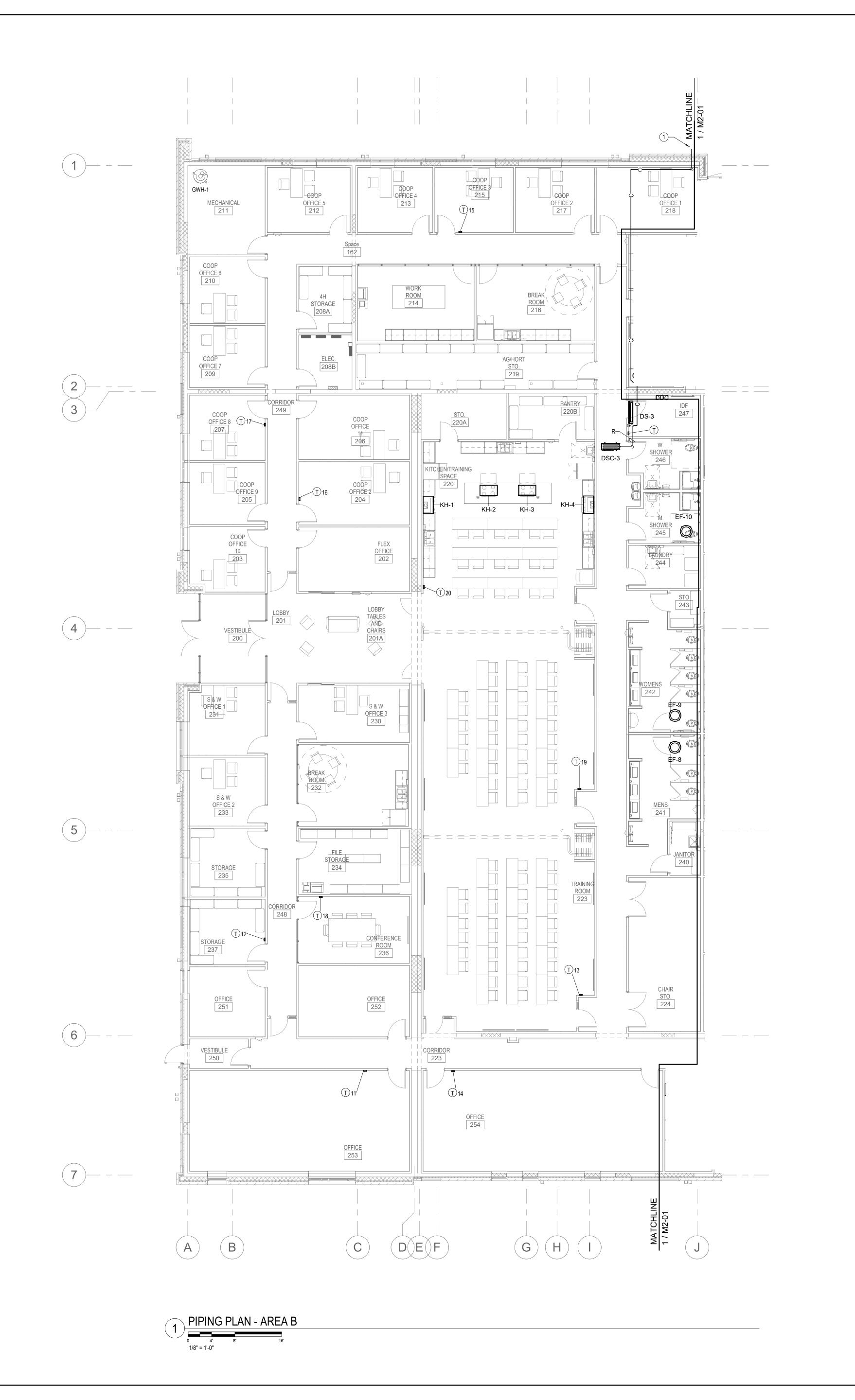
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AREA A

2021029 16 OCT. 2024

PIPING PLAN -

M2-01





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GENERAL NOTES:

KEYNOTES:

MECHANICAL AND BAS CONTRACTORS SHALL REVIEW
THE FINAL CASEWORK AND FFE DRAWINGS AND
IDENTIFY POTENTIAL CONFLICTS WITH THERMOSTAT
AND SENSORS PRIOR TO ROUGH-IN. NOTIFY ARCHITECT

AND ENGINEER OF CONFLICTS AND DISCREPANCIES.

ALL THERMOSTATS, SENSORS, AND USER CONTROLS

 EXTEND CONDENSATE THROUGH WALL LOW AND TERMINATE AT DRY WELL.

SHALL BE MOUNTED AT 48". DEVICES SHALL BE ALIGNED EXACTLY WITH ADJACENT DEVICES OF OTHER TRADES (LIGHT SWITCHES, OCC SENSORS, ETC.)

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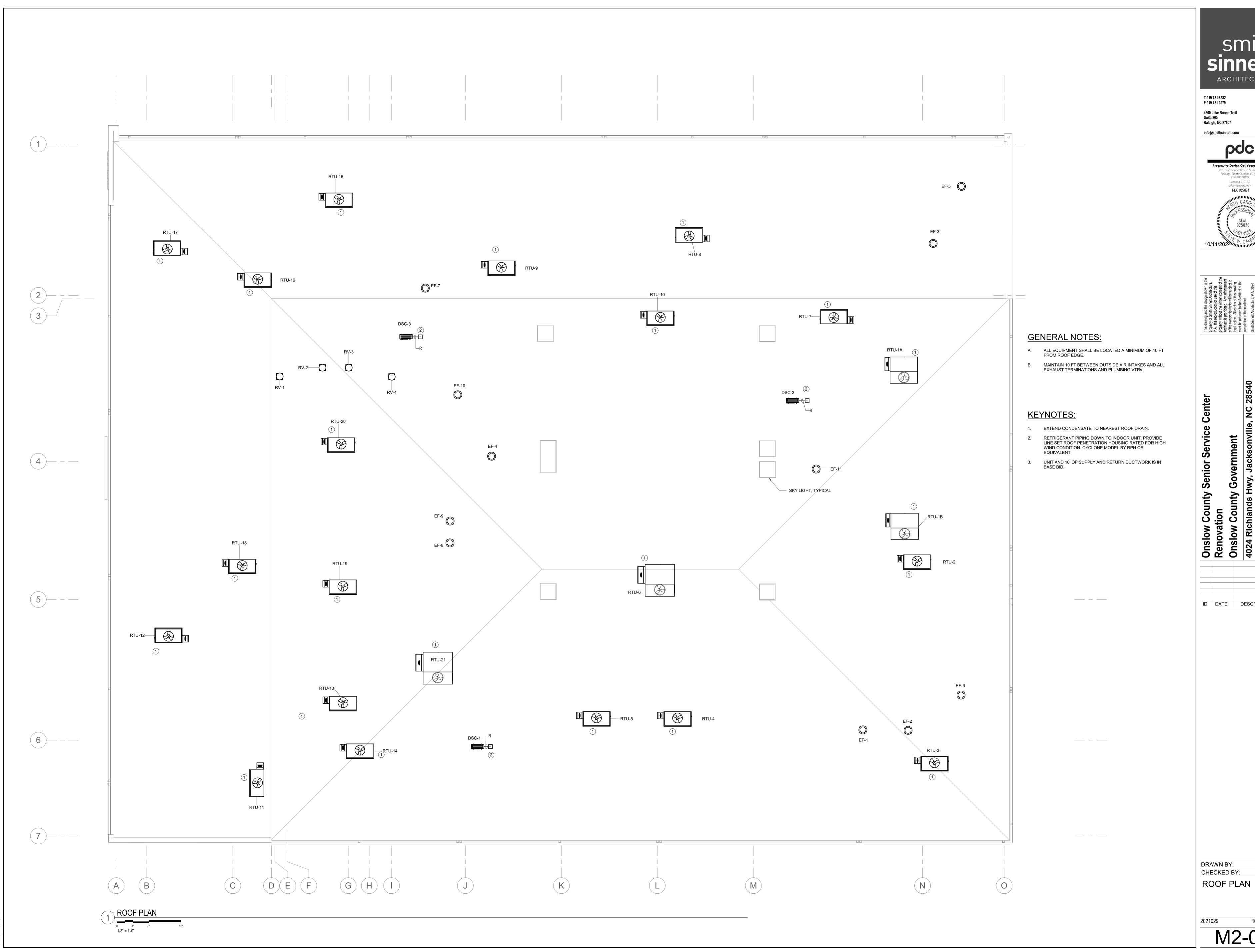
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PIPING PLAN -AREA B

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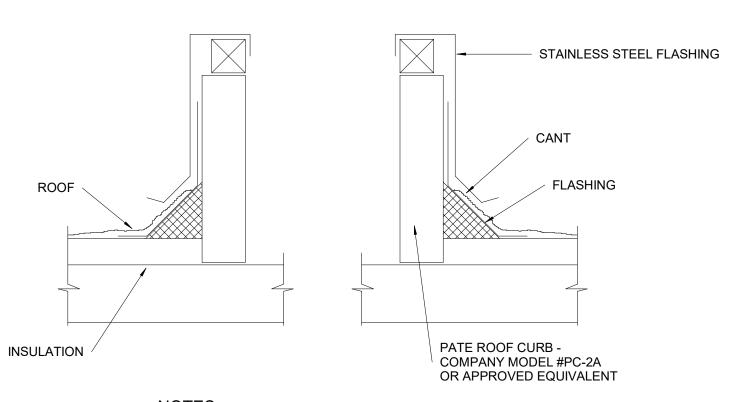


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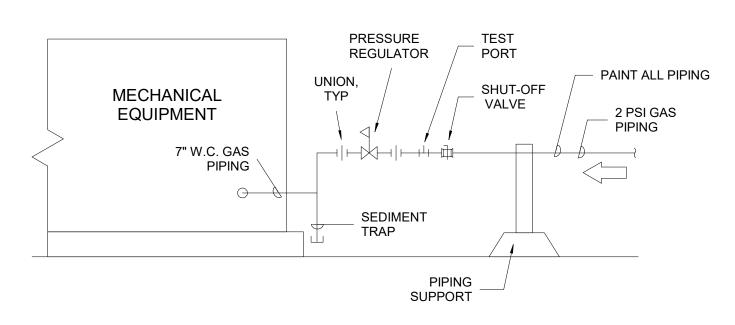
16 OCT. 2024

M2-03



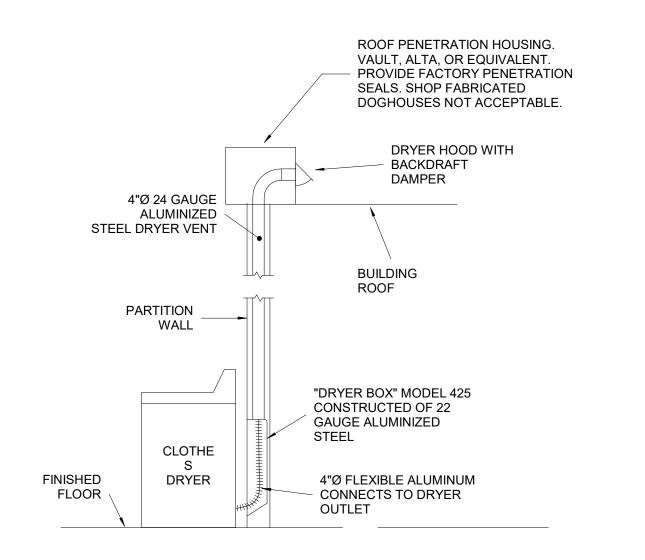
REFER TO ROOFING DRAWINGS FOR COORDINATION WITH INSTALLING ROOF CURBS. CURB AND ATTACHMENTS TO STRUCTURE SHALL BE RATED FOR PROJECT WIND ZONE. PROVIDE SHOP DRAWINGS SEALED BY NC LICENSED ENGINEER.

10 DETAIL - ROOF CURB



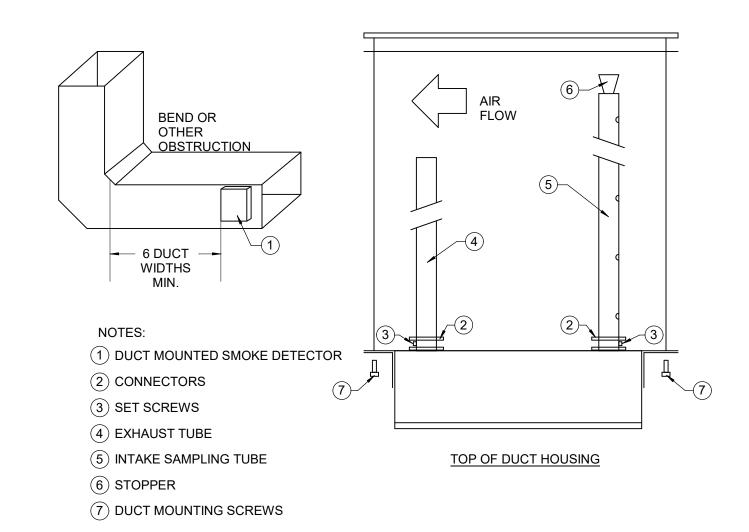
TWO UNIONS FOR REGULATOR SHALL BE WITHIN 12 INCHES OF DEVICE

M - DETAIL - TYPICAL GAS CONNECTION NOT TO SCALE



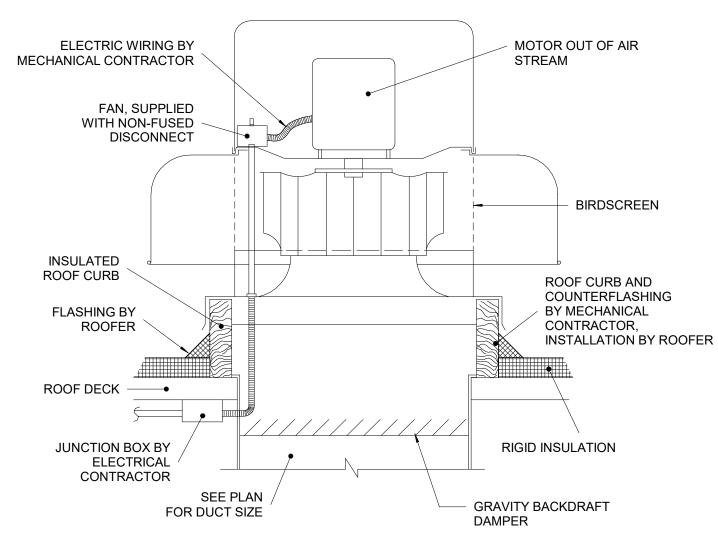
NO SCREWS SHALL BE USED FOR DRYER VENT DUCT CONNECTION.

DETAIL - DRYER VENT INSTALLATION NOT TO SCALE



DUCT SMOKE DETECTOR DETAIL

/ NOT TO SCALE



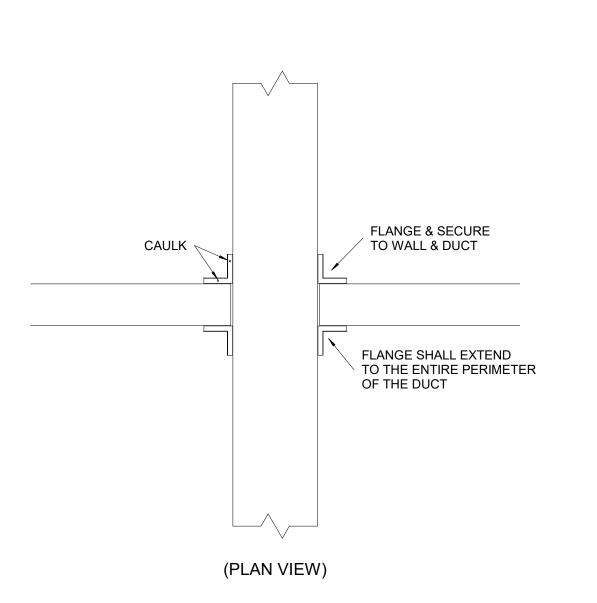
CURB SHALL BE INSULATED AND 20 HIGH OR THE HEIGHT INDICATED ON THE SCHEDULE.

FASTENING OF CURB TO STRUCTURE AND FAN TO CURB SHALL BE RATED FOR PROJECT WIND ZONE. REFER TO CODE SUMMARY SHEET.

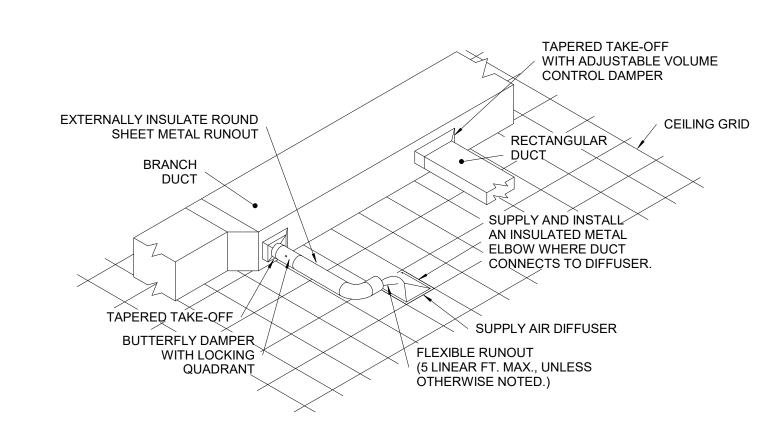
4. FAN AND CURB SHALL BE MIAMI-DADE RATED.

REFER TO ROOFING DRAWINGS FOR COORDINATION WITH INSTALLING ROOF CURBS.

8 DETAIL - EXHAUST FAN ✓ NOT TO SCALE

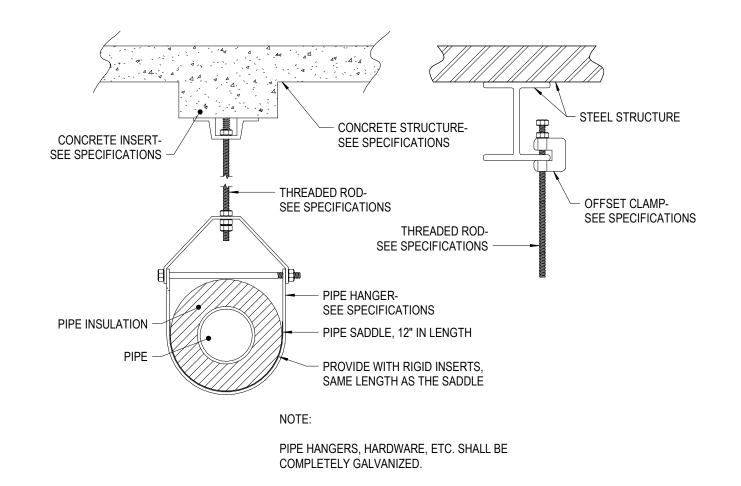


DETAIL - NON-RATED DUCT PENETRATION 9 NOT TO SCALE

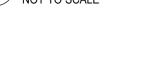


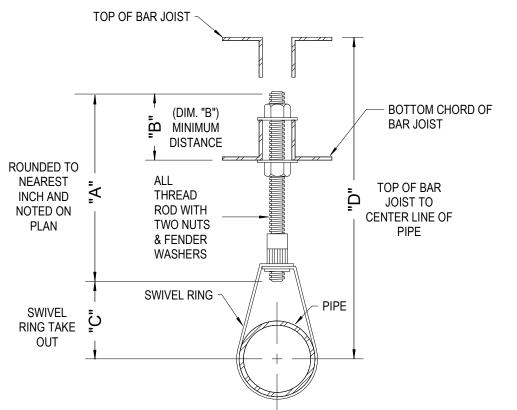
PROVIDE TAPERED TAKE-OFF WITH ADJUSTABLE VOLUME DAMPER, AIR DISTRIBUTING GRID, OR RADIUS TAKE-OFF WITH STRAIGHTENING VANES AT TAKE-OFF.

DETAIL - SUPPLY, RETURN & EXHAUST AIR TAKE-OFF 4 NOT TO SCALE



5 PIPE HANGERS NOT TO SCALE



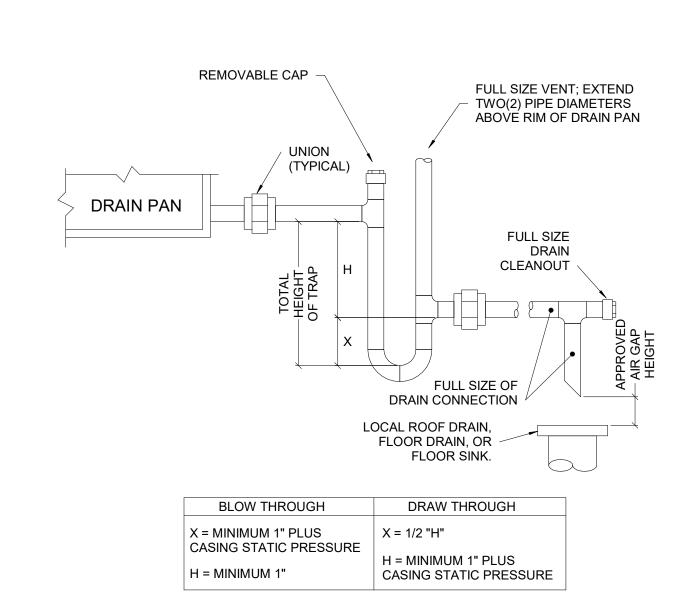


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NOTE ON PLAN: HANGER NU	JMBER AND "A" DIMENSION

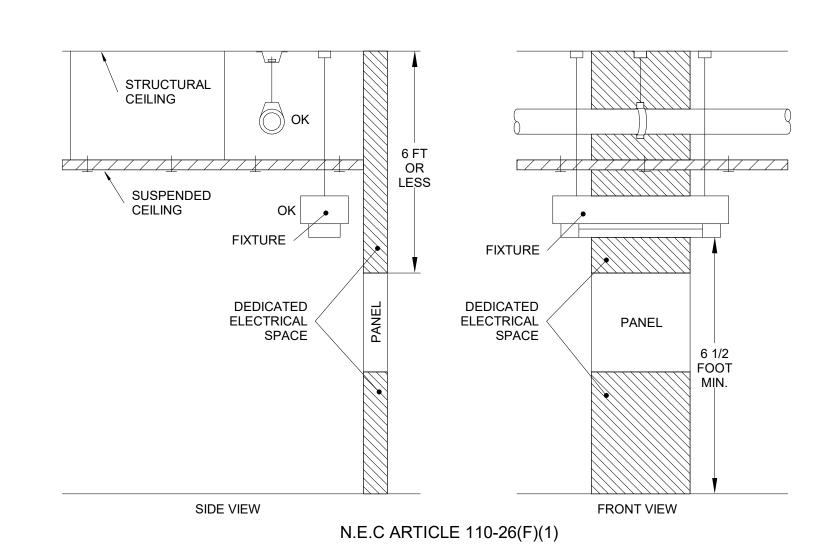
	NOT	E ON PLAN: HANGER NUMBER AND "A	A DIMENSION	
PIPE	ROD	'B'	MIN 'C'	MAX 'C'
SIZE	SIZE	DIM.	DIM.	DIM.
3/4"			1/2"	1-5/8"
1"			5/8	1-3/4"
1-1/4"			"13/16"	1-7/8"
1-1/2"			15/16"	2"
2"	3/8"	0 00	1-3/16	2-3/8
2-1/2"		SIZE OF ANGLE IRON ON BOTTOM	"1-7/16"	2-3/4"
3"		CHORD OF BAR	1-3/4"	3-1/4"
3-1/2"		JOIST PLUS 1-1/2"	2"	3-5/8"
4"			2-1/4"	3-7/8"
5"			2-3/4"	4-3/4"
6"	1/2"		3-5/16"	5-1/2"
8"			4-5/16"	6-3/4"

BAR JOIST HANGER WITH NUTS AND WASHERS

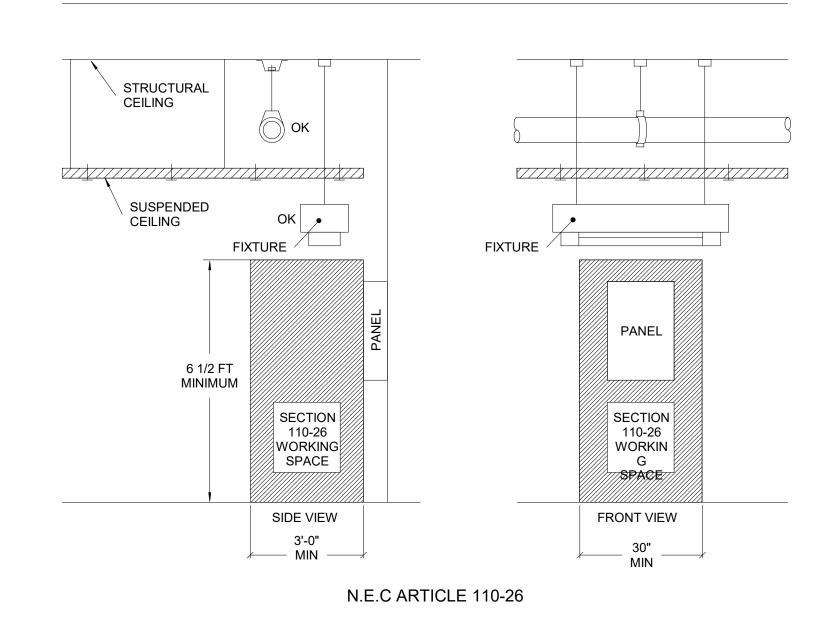
6 DETAIL - PIPE HANGER - BAR JOIST
NOT TO SCALE



DETAIL - CONDENSATE DRAIN DETAIL NOT TO SCALE



DETAIL - DEDICATED SPACE FOR ELECTRICAL EQUIPMENT 2 DETAIL -



3 DETAIL - WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
NOT TO SCALE

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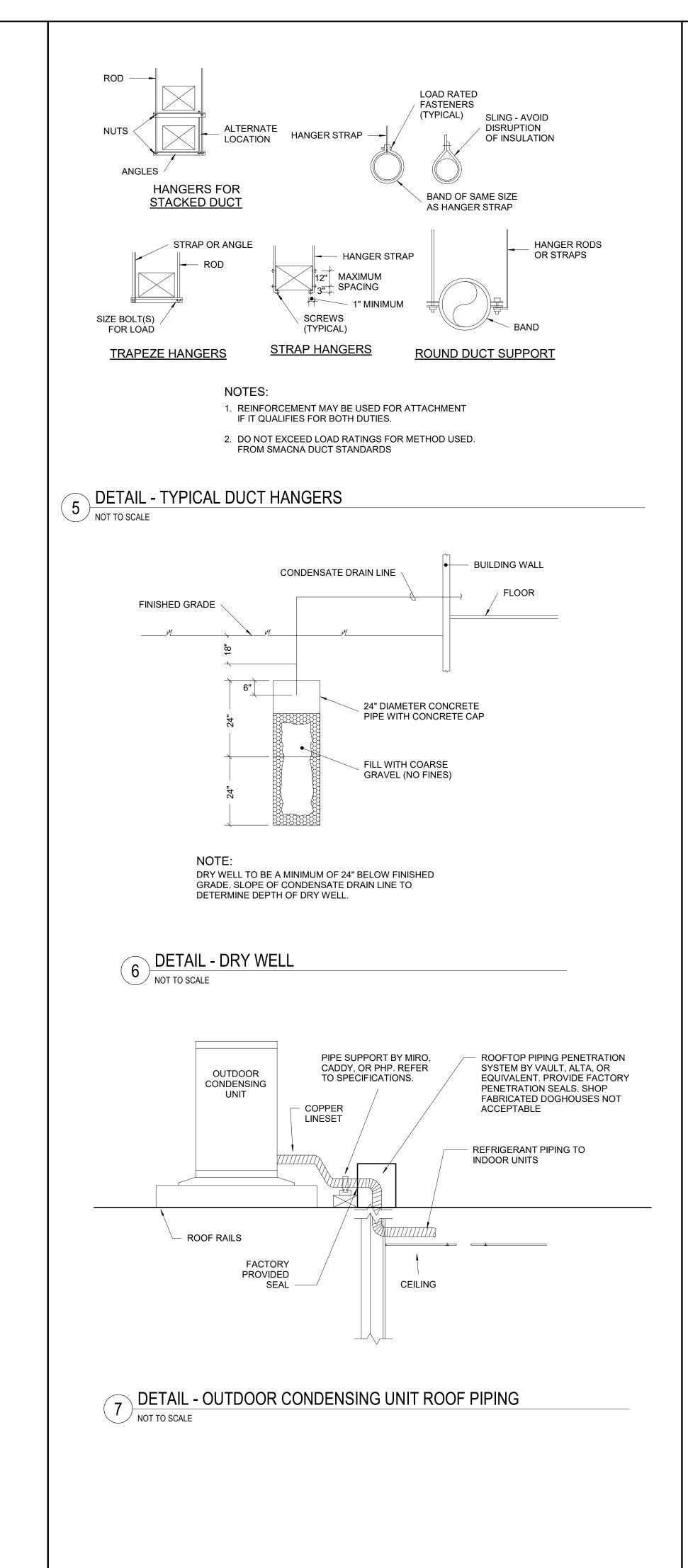
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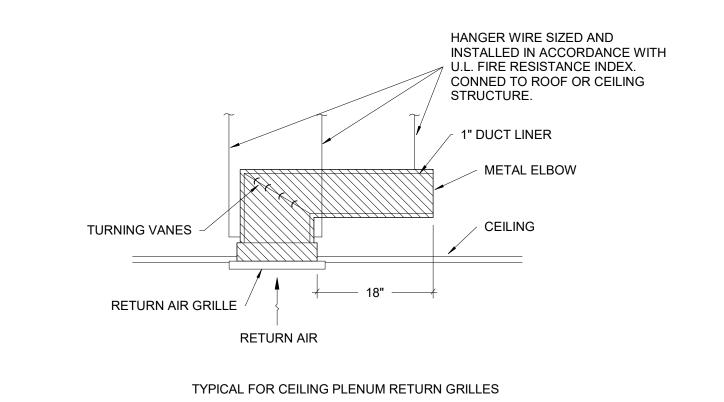
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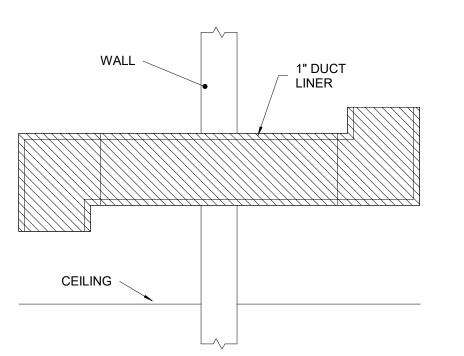
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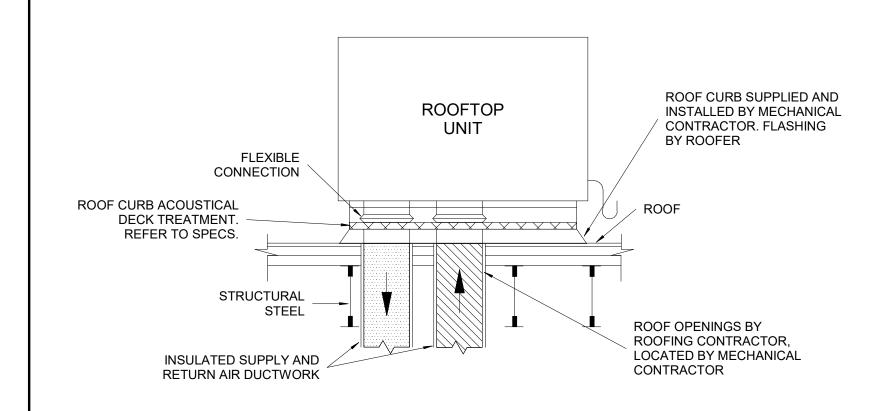
3 DETAIL - RETURN AIR GRILLE

NOT TO SCALE



- A. ELBOWS MAY BE INSTALLED HORIZONTALLY, AS SPACE REQUIRES.
- B. DIMENSIONS ON PLAN ARE INSIDE CLEAR.

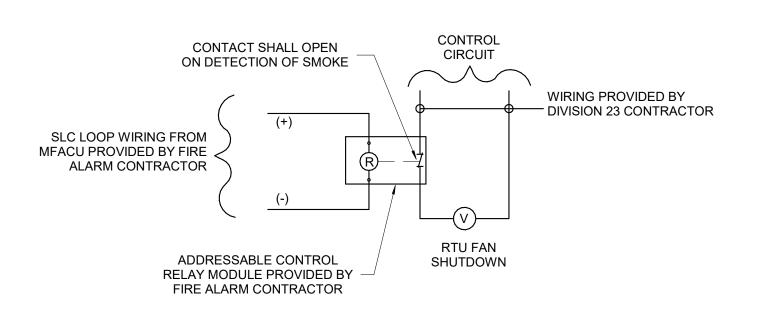
DETAIL - RETURN AIR TRANSFER DUCT NOT TO SCALE



NOTES:

- CURB ATTACHMENTS TO STRUCTURE AND UNIT ATTACHMENTS TO CURB SHALL BE RATED FOR THE PROJECT WIND ZONE. REFER TO CODE SUMMARY SHEET.
- ALL ROOFTOP UNITS SHALL BE LOCATED 10'-0" FROM EDGE OF

DETAIL - ROOF TOP HEAT PUMP UNIT



RTU SHUTDOWN DIAGRAM

FIRE ALARM INTERLOCK

The Fire Alarm Contractor shall provide a fire alarm relay for the supply fan(s) at each RTU. The relay shall be a be wired directly to the RTU shutdown by the BAS Contractor. The relay shall also have an auxiliary contact. The BAS Contractor shall wire from the auxiliary contact to the BAS controller to monitor FA shutdown for that fan on the BAS front end.

2 AHU SHUTDOWN DIAGRAM

NOT TO SCALE



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M5-02

CONSTANT VOLUME DEDICATED OUTSIDE AIR UNIT SEQUENCE OF **OPERATIONS**

THE ROOFTOP UNIT MANUFACTURER'S FACTORY SUPPLIED CONTROLLER SHALL CONTROL THE GENERAL OPERATION OF THE UNIT, INCLUDING SAFETIES. THE UNIT SHALL BE STARTED UP AND COMMISSIONED BY THE MECHANICAL AND CONTROLS CONTRACTORS IN COORDINATION WITH THE COMMISSIONING AGENT AND THE AUTHORIZED FACTORY TECHNICIAN.

THE BAS SHALL SEND OCCUPIED AND UNOCCUPIED SIGNALS TO THE UNIT BASED ON THE USER DEFINED SCHEDULE. THE BAS SHALL MONITOR THE ASSOCIATED POINTS AND BE ABLE TO WRITE TO SET POINTS. THE CONTROLS CONTRACTOR SHALL COORDINATE BACNET INTEROPERABILITY BUILDING BLOCKS (BIBBs) WITH THE EQUIPMENT MANUFACTURER DURING THE SUBMITTAL PROCESS. GENERAL ZONING/SCHEDULING

EACH RTU IS A ZONE THAT CAN BE INDIVIDUALLY ASSIGNED AN OPERATION SCHEDULE OR OPERATE IN CONJUNCTION WITH OTHER ZONES AS DEFINED BY THE OWNER. THE UNIT SHALL RUN WHENEVER THE ZONE IS IN OCCUPIED MODE AND SHALL CONTROL TO THE OCCUPIED SET POINTS. IF THE UNIT IS IN UNOCCUPIED MODE AND THE TEMPERATURE RISES ABOVE OR DROPS BELOW THE UNOCCUPIED SET POINT, THE UNIT SHALL BE PROVIDE HEATING OR COOLING TO MAINTAIN THE UNOCCUPIED SET POINT. IF THE RETURN AIR RELATIVE HUMIDITY RISES ABOVE 60% (ADJ) IN EITHER OCCUPIED OR UNOCCUPIED MODE, THE UNIT SHALL BE ENABLED AND ENTER DEHUMIDIFICATION MODE. COOLING SHALL BE ENABLED AND HOT GAS REHEAT SHALL OPERATE TO MAINTAIN THE RELATIVE HUMIDITY BELOW 55% (ADJ). IF ECONOMIZER CONDITIONS ARE PRESENT (OUTSIDE AIR TEMP < RETURN AIR TEMP and OUTSIDE AIR ENTHALPY < 28 BTU/LB), THE UNIT SHALL RUN IN

ECONOMIZER MODE. UNIT SHALL HAVE BAROMETRIC RELIEF AIR DAMPER FOR ECONOMIZER MODE.

SCHEDULING
REGULAR SCHEDULING: EACH ZONE SHALL HAVE REGULAR, DAY-TO-DAY SCHEDULE OF OCCUPIED HOURS. THE OWNER SHALL BE CONSULTED DURING THE SUBMITTAL PHASE TO ESTABLISH ALL SCHEDULES. HOLIDAYS: HOLIDAYS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE. DURING SCHEDULED HOLIDAYS, THE ZONES REMAIN IN UNOCCUPIED MODE.

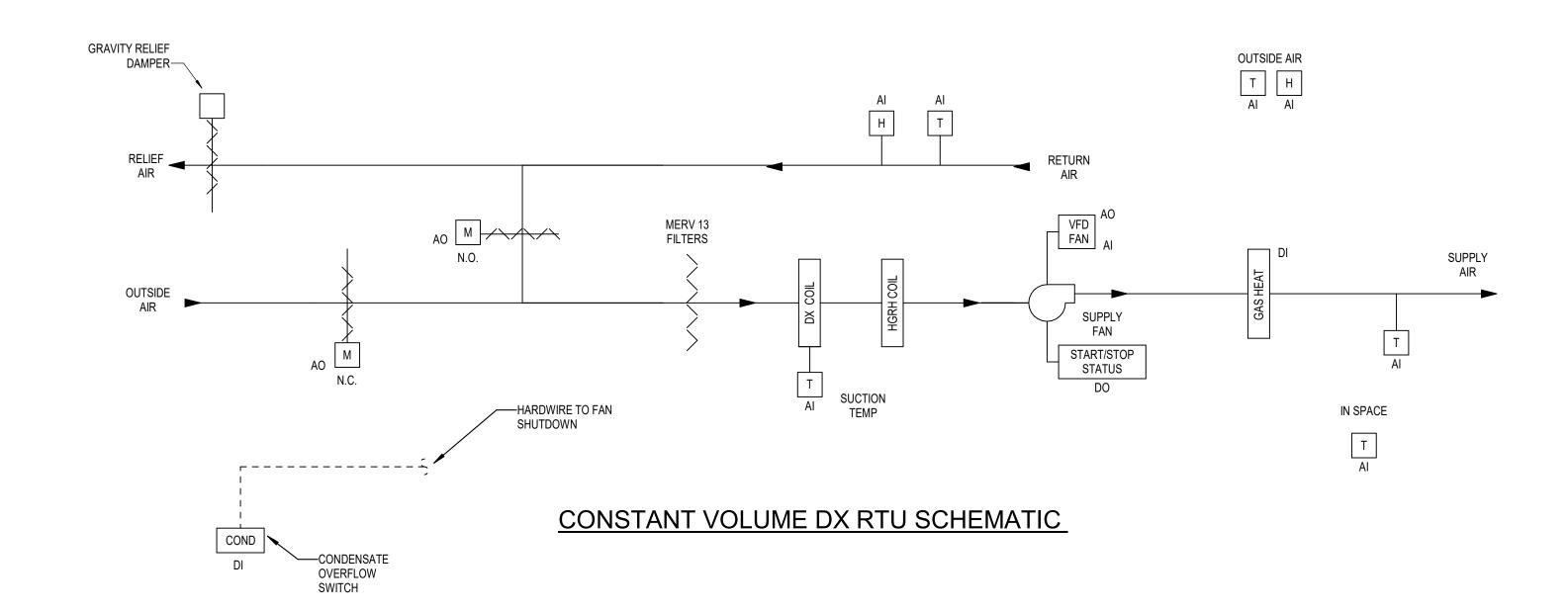
CONSULT THE OWNER ON HOLIDAY SCHEDULING. SPECIAL EVENT SCHEDULING: SPECIAL EVENTS CAN BE SCHEDULED UP TO A YEAR IN ADVANCE DURING WHICH A ZONE WILL OPERATE IN OCCUPIED MODE REGARDLESS OF THE ZONE'S REGULAR SCHEDULE OR SCHEDULED HOLIDAYS.

BAS OPERATOR OVERRIDES: THE BAS OPERATOR SHALL BE ABLE TO OVERRIDE INDIVIDUAL SYSTEMS OR THE ENTIRE BUILDING EITHER ON OR OFF AT SINGLE POINTS IN THE OPERATOR FRONT END.

ALARMS
MAINTENANCE INTERVAL ALARM WHEN FAN HAS OPERATED FOR MORE THAN 1,500 HOURS. RESET INTERVAL COUNTER WHEN ALARM IS ACKNOWLEDGED. FAN ALARM IS INDICATED BY THE STATUS BEING DIFFERENT FROM THE COMMAND FOR A PERIOD OF 15 SECONDS. HIGH BUILDING PRESSURE (MORE THAN 0.10"). LOW BUILDING PRESSURE (LESS THAN 0.0").

SAFETIES:

IF THE UNIT IS EQUIPPED WITH A DUCT DETECTOR, UPON A SIGNAL FROM THE DUCT SMOKE DETECTOR, THE RTU SHALL SHUT DOWN.



RTU INTEGRATION POINTS LIST

BAS CONTRACTOR TO INTEGRATE THE POINTS BELOW - IN ADDITION TO THOSE ON THE DIAGRAM - SUBJECT TO AVAILABILITY OF MANUFACTURER'S CONTROLLER PROVIDE FULL LIST OF AVAILABLE BACNET POINTS WHEN SUBMITTING ROOFTOP UNITS.

SUPPLY AIR TEMPERATURE AI CURRENT VALUE OF SUPPLY AIR TEMPERATURE AI CURRENT SAT COOLING OR HEATING SETPOINT, CALCULATED WITH RESET SOURCE SUPPLY AIR SETPOINT AI CURRENT CALCULATED COIL SECTION TEMPERATURE TARGET DURING DEHUM MODE CONTROLLING COIL TEMP SETPOINT SPACE TEMPERATURE AI CURRENT VALUE OF SPACE TEMPERATURE SENSOR AI CURRENT VALUE OF SPACE HUMIDITY SPACE HUMIDITY OUTDOOR AIR TEMPERATURE AI CURRENT VALUE OF OUTDOOR AIR TEMPERATURE SENSOR OUTDOOR AIR HUMIDITY AI CURRENT VALUE OF OUTDOOR AIR HUMIDITY SENSOR **OUTDOOR AIRFLOW** ECONOMIZER SIGNAL MODULATING HOT GAS REHEAT VALVE POSITION AI MODULATING GAS HEAT VALVE POSITION COMPRESSOR SIGNAL AI TYPICAL FOR EACH COMPRESSOR COMPRESSOR SUCTION PRESSURE COMPRESSOR HEAD PRESSURE COMPRESSOR COIL SATURATION TEMPERATURE AI CONDENSER SIGNAL AI TYPICAL FOR EACH CONDENSER SUPPLY AIR COOLING SETPOINT SUPPLY AIR HEATING SETPOINT MAX SAT COOLING SETPOINT RESET LIMIT

MAX SAT HEATING SETPOINT RESET LIMIT WARM-UP TARGET TEMPERATURE WARM-UP MODE SAT SETPOINT COOL-DOWN MODE SAT SETPOINT OCCUPIED COOLING SETPOINT OCCUPIED HEATING SETPOINT UNOCCUPIED COOLING SETPOINT UNOCCUPIED HEATING SETPOINT CONTROL TEMPERATURE LOW ALARM OFFSET CONTROL TEMPERATURE HIGH ALARM OFFSET INDOOR HUMIDITY SETPOINT LOW RESET LIMIT INDOOR HUMIDITY SETPOINT HIGH RESET LIMIT MECHANICAL COOLING OAT LOCKOUT MECHANICAL HEATING OAT LOCKOUT ECONOMIZER MODE ENABLE MINIMUM ECONOMIZER POSITION MAXIMUM ECONOMIZER CO2 RESET LIMIT SAT SETPOINT OVERRIDE REMOTE FORCED OCCUPIED STATUS REMOTE FORCED COOLING STATUS REMOTE FORCED HEATING STATUS HIGH SUPPLY TEMP CUTOFF LOW SUPPLY TEMP CUTOFF MECHANICAL COOLING ALARM EMERGENCY SHUTDOWN ALARM ALARM STATUS

ARCHITECTURE

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16 OCT. 2024

M6-01

MISCELLANEOUS POINTS AND SEQUENCES

EXHAUST FAN CONTROL

EXHAUST FANS SHALL BE CONTROLLED BY THE BAS, EXCEPT WHERE NOTED IN SCHEDULE.

FANS SHALL OPERATE VIA METHOD AS LISTED IN SCHEDULE VIA BAS, T-STAT, ETC. FANS CONTROLLED BY INDIVIDUAL THERMOSTAT DO NOT REQUIRE BAS CONNECTION

UN-OCCUPIED PERIOD: FANS ARE OFF, EXCEPT WHERE INDICATED ON THE SCHEDULE

PREPARATORY PERIOD: FANS ARE OFF, EXCEPT WHERE INDICATED ON THE SCHEDULE

EXHAUST FANS SHALL BE INTERLOCKED TO OPERATE WITH THEIR RESPECTIVE AIR HANDLING UNIT.

THE BAS SHALL GENERATE AN ALARM ANYTIME THE STATUS OF A FAN DOES NOT MATCH THE COMMAND.

LIGHTING CONTROL

THE BAS CONTRACTOR SHALL PROVIDE WIRING TO LIGHTING CONTACTORS SPECIFIED AND LOCATED ON THE ELECTRICAL

BAS CONTRACTOR SHALL PROVIDE OUTPUTS AS REQUIRED TO CONTROL LIGHTING RELAYS AND CONTACTORS. LIGHTING CIRCUITS SHALL BE CONTROLLED VIA USER ADJUSTABLE SCHEDULES WITHIN THE BAS BASED ON TIME OF DAY AND 365-DAY CALENDAR SCHEDULE. PROVIDE ABILITY TO OVERRIDE EACH LIGHTING CONTACTOR VIA THE FRONT END GRAPHICS.

REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR LIGHTING CONTROL REQUIREMENTS.

REFER TO SPECIFICATIONS SECTION 26 09 23 FOR PROGRAMMING REQUIREMENTS. REFER TO LIGHTING DRAWINGS FOR OVERRIDE SWITCHES.

OVERRIDE SWITCHES:

REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. CONTROLS CONTRACTOR RESPONSIBLE FOR PROVIDING THE OVERRIDE SWITCHES, FACE PLATES, LOW VOLTAGE CABLING, AND PROGRAMMING. FACE PLATES SHALL MATCH DIVISION 26 SPECIFICATIONS, MATERIAL, AND COLOR. RACEWAY AND BOXES ASSOCIATED WITH OVERRIDE SWITCHES BY DIVISION 26.

DUCTLESS SPLIT SYSTEMS

DUCTLESS SPLIT SYSTEMS SHALL HAVE WALL MOUNTED CONTROLS IN THEIR RESPECTIVE ROOMS. UNITS ARE COOLING ONLY AND SHALL OPERATE AS REQUIRED TO KEEP ROOMS AT SETPOINT. NO BAS INTERFACE IS REQUIRED FOR DUCTLESS SPLIT SYSTEMS. TREND LOGS

PROVIDE TREND LOGS FOR ALL RESET REQUESTS.

TREND ALL TEMPERATURE, PRESSURE AND EQUIPMENT CHANGES OF STATE.

MAINTENANCE MANAGEMENT

THE DDC SYSTEM SHALL MEASURE AND RECORD RUN TIME FOR ALL START/STOP POINTS IN THE SYSTEM. BASED UPON THE ACCUMULATED RUN TIME, PROVIDE MAINTENANCE MESSAGES ON THE INTERVAL RECOMMENDED BY THE EQUIPMENT MANUFACTURERS. ANY DIGITAL INPUT POINT THAT IS USED FOR MAINTENANCE PURPOSES (I.E. DIRTY FILTER) SHALL ALSO GENERATE A MAINTENANCE MESSAGE. ALL MAINTENANCE MESSAGES ARE TO BE SENT VIA EMAIL TO COUNTY'S FACILITY MAINTENANCE DIRECTOR OR SOMEONE ELSE OF HIS CHOOSING.

TROUBLE ALARMS THE CONTROL SUBCONTRACTOR SHALL ESTABLISH A TROUBLE HIGH AND TROUBLE LOW ALARM LIMIT FOR EACH ANALOG INPUT, EQUIPMENT STATUS AND ANNUNCIATE A CORRESPONDING ALARM MESSAGE AT THE CONTROLS FRONT END.

ALL SOFTWARE SETPOINTS, LIMITS, ALARMS, MESSAGES, SCHEDULES, SEQUENCES, ETC., AS SPECIFIED HEREIN ARE TO PROVIDE AN INITIAL SETUP OF THE CONTROLS SYSTEM. THE CONTROLS SUBCONTRACTOR SHALL PROVIDE SOFTWARE CUSTOMIZATIONS, SCHEDULING ALTERATIONS. AND SET POINT ADJUSTMENTS THAT MAY BE REQUIRED TO "TUNE" THE DDC SYSTEM TO ACCURATELY RESPOND TO ACTUAL BUILDING PARAMETERS. FURTHER, THESE SOFTWARE FUNCTIONS SHALL BE READILY MODIFIABLE BY THE OWNER'S PERSONNEL AS CHANGES IN BUILDING OPERATION DICTATE.

UNIT HEATERS

MISCELLANEOUS POINTS

MODIFICATION

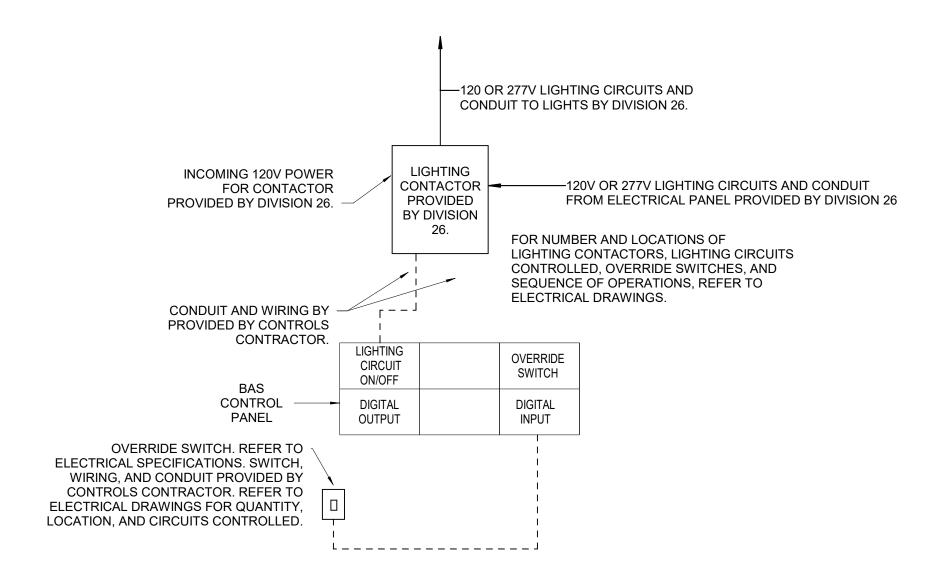
UNIT HEATER: BUILT-IN THERMOSTAT SHALL MAINTAIN ITS SETPOINT OF 55 DEG F (ADJ) BY STARTING THE UNIT HEATER. ONCE THE UNIT HEATER IS ENERGIZED, IT WILL RUN FOR AT LEAST FIVE (5) MINUTES TO AVOID SHORT CYCLING. NO BAS MONITORING OR CONTROL IS REQUIRED FOR UNIT HEATERS.

BAS SHALL MONITOR THE BACKUP GENERATOR STATUS AND ALARMS.

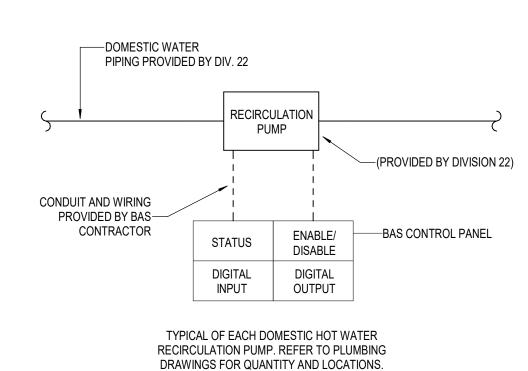
WATER HEATER AND RECIRCULATION PUMP CONTROL

BAS SHALL ENABLE AND DISABLE RECIRCULATION PUMPS FOR OCCUPIED AND UNOCCUPIED TIMES. REFER TO PLUMBING DRAWINGS FOR NUMBER AND LOCATION OF PUMPS. CONSULT OWNER ON HOURS OF OPERATION. PROVIDE A SCHEDULE FOR PUMPS INDEPENDENT OF OTHER HVAC RELATED SCHEDULES.

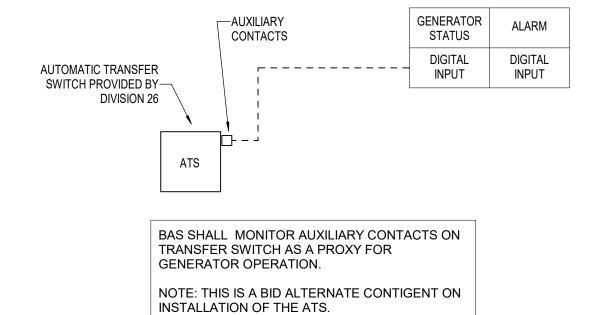
THE BAS WILL GENERATE AN ALARM IF THE COMMAND AND STATUS FAIL TO MATCH.



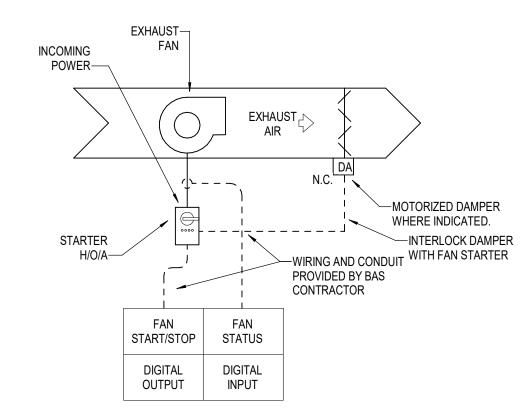
LIGHTING CONTROL SCHEMATIC



DOMESTIC HW
RECIRCULATION PUMP
MONITORING-TYPICAL



ATS/GENERATOR MONITORING



EXHAUST FAN-TYPICAL

DRAWN BY: CHECKED BY: MISCELLANOUS

ID DATE DESCRIPTION

CONTROLS

ARCHITECTURE

919-790-9989

License# C-0183

PDC #22074

T 919 781 8582

F 919 781 3979

Suite 205

Ser

4600 Lake Boone Trail

Raleigh, NC 27607

16 OCT. 2024 M6-02

ROOFTOP UNIT SCHEDULE																																		
				SU	PPLY FA	N			CO	OLING (COIL					GAS F	HEAT				REHEA	AT COIL	_	F	RERIGER	RATION	I CIRCUI	Γ	E	LECT	RICAL			
MARK	MANUFACTURER	MODEL	OA (CFM) QT	Y CFM	ESP IN. WG	HP B	HP E	EDB EWE	TOTA COOL (MBI	NG C	ENSIBLE DOLING (MBH)	LDB (°F)	LWB I	NPUT C	OUTPUT (MBH)	AFUE	TURN		DB LD F) (°F	B CAP	ACITY IBH)	EDB (°F)	LDB (°F)	COMP	COMF RLA (E		ND FAN TY/HP	IEER	V	PH N	MCA MF		EIGHT (LBS)	REMARKS
RTU-1A	AAON	RN-007-3	650 1	1300	1.2	-	- 7	8.8 71.8	74.2	2	35.9	52.6	52.4	90.0	72.9	81	10:1	42	2.5 92.	.4 3	2.1	53.2	75.0	1	12.4		1/1.0	21.5	480	3	19 30	30 1	1,500	
RTU-1B	AAON	RN-007-3	650 1	1300	1.2	-	- 7	8.8 71.8	74.2	2	35.9	52.6	52.4	90.0	72.9	81	10:1	42	2.5 92.	.4 3	2.1	53.2	75.0	1	12.4		1/1.0	21.5	480	3	19 30	30 1	1,500	
RTU-2	AAON	RQ-005-3	275 1	1180	1.2	2.0 1.	00 7	6.9 67.9	55.	5	29.6	51.0	50.9	100.0	81.0	81	2.8:1	1 54	1.6	8 3	0.2	51.0	75.0	1	6.5		1/0.33	18.7	480	3	13 1	15 1	1,200	
RTU-3	AAON	RQ-005-3	450 1	1035	1.2	2.0 0.	86 7	8.5 71.0	57.0)	26.4	52.2	52.2	100.0	81.0	81	2.8:1	1 43	3.6 11	6 2	5.1	52.2	75.0	1	6.5		1/0.33	18.7	480	3	13 1	15 1	1,200	
RTU-4	AAON	RQ-006-3	400 1	1430	1.2	2.0 1.	28 7	7.2 68.6	62.7	7	32.7	53.2	53.1	100.0	81.0	81	2.8:1	1 52	2.0 10	4 3	3.2	53.2	75.0	1	7.2		1/0.33	19.2	480	3	14 20	20 1	1,200	
RTU-5	AAON	RQ-004-3	280 1	935	1.2	2.0 0.	80 7	7.4 68.9	45.0)	23.0	51.9	51.9	60.0	48.6	81	3.3:1	1 50).9 99	9 2	2.9	51.9	75.0	1	6.0		1/0.33	18.3	480	3	13 1	15 1	1,200	
RTU-6	AAON	RN-007-3	480 1	1600	1.2	2.0 1.	14 7	7.4 69.0	69.6	3	36.5	54.1	54.1	150.0	120.0	81	3:1	50).9 12	0 3	5.6	54.1	75.0	1	9.7		1/0.33	14.8	480	3	17 2	25 1	1,500	
RTU-7	AAON	RQ-005-3	200 1	1120	1.2	2.0 0.	96 7	6.4 67.0	53.8	3	29.5	49.3	49.3	60.0	48.6	81	3.3:1	1 57	7.7 98	3	0.7	49.3	75.0	1	6.5		1/0.33	18.7	480	3	13 1	15 1	1,200	
RTU-8	AAON	RQ-006-3	225 1	1425	1.2	2.0 1.	23 7	6.3 66.7	58.	5	33.3	52.0	51.7	100.0	81.0	81	2.8:1	1 58	3.9 11	1 3	5.0	52.0	75.0	1	7.2		1/0.33	19.4	480	3	14 20	20 1	1,200	
RTU-9	AAON	RQ-004-3	200 1	900	1.2	2.0 0.	73 7	6.8 67.7	42.7	7	22.9	50.7	50.5	60.0	48.6	81	3.3:1	1 55	5.2 10	5 2	3.3	50.7	75.0	1	6.0		1/0.33	19.2	480	3	13 1	15 1	1,200	
RTU-10	AAON	RQ-005-3	320 1	1060	1.2	2.0 0.	86 7	7.4 69.0	54.	1	27.2	51.0	50.9	100.0	81.0	81	2.8:1	1 50).8 12	1 2	7.0	51.0	75.0	1	6.5		1/0.33	19.0	480	3	13 1	15 1	1,200	
RTU-11	AAON	RQ-003-3	150 1	750	1.2	1.0 0.	62 7	6.6 67.4	36.7	7	19.6	49.6	49.4	60.0	48.6	81	3.3:1	1 56	6.5 11	6 2	0.2	49.6	75.0	1	4.5		1/0.33	18.6	480	3	9 1	15 1	1,000	
RTU-12	AAON	RQ-005-3	150 1	1250	1.2	2.0 1.	01 7	6.0 66.0	52.6	3	30.4	49.8	49.6	60.0	48.6	81	3.3:1	1 61	1.0 98	3	2.2	49.8	75.0	1	6.5		1/0.33	19.0	480	3	13 1	15 1	1,200	
RTU-13	AAON	RQ-004-3	310 1	900	1.2	2.0 0.	73 7	7.7 69.7	44.4	1	21.8	52.7	52.6	60.0	48.6	81	3.3:1	1 48	3.5 98	3 2	1.3	52.7	75.0	1	6.0		1/0.33	19.2	480	3	13 1	15 1	1,200	
RTU-14	AAON	RQ-003-3	140 1	800	1.2	1.0 0.	66 7	6.4 66.9	36.9	9	20.3	50.2	49.9	60.0	48.6	81	3.3:1	1 57	7.9 11	4 2	1.2	50.2	75.0	1	4.5		1/0.33	18.7	480	3	9 1	15 1	1,000	
RTU-15	AAON	RQ-003-3	100 1	710	1.2	1.0 0.	59 7	6.1 66.4	35.6	3	19.6	47.7	47.5	60.0	48.6	81	3.3:1	1 59	9.9 12	0 2	0.6	47.7	75.0	1	4.5		1/0.33	18.7	480	3	9 1	15 1	1,000	
RTU-16	AAON	RQ-005-3	225 1	1325	1.2	2.0 1.	11 7	6.4 66.9	54.3	3	30.7	52.3	52.0	100.0	81.0	81	2.8:1	1 58	3.2 11	5 3	2.1	52.3	75.0	1	6.5		1/0.33	19.0	480	3	13 1	15 1	1,200	
RTU-17	AAON	RQ-006-3	175 1	1505	1.2	2.0 1.	33 7	5.9 66.0	58.	1	34.3	52.0	51.7	100.0	81.0	81	2.8:1	1 61	1.2 11	1 3	6.9	52.0	75.0	1	7.2		1/0.33	19.4	480	3	14 20	20 1	1,200	
RTU-18	AAON	RQ-004-3	225 1	900	1.2	2.0 0.	73 7	7.0 68.2	43.	1	22.6	51.2	51.1	60.0	48.6	81	3.3:1	1 53	3.6 10	3 2	2.8	51.2	75.0	1	6.0		1/0.33	19.2	480	3	13 1	15 1	1,200	
RTU-19	AAON	RQ-004-3	310 1	900	1.2	2.0 0.	73 7	7.7 69.7	44.4	1	21.8	52.7	52.6	60.0	48.6	81	3.3:1	1 48	3.6 98	3 2	1.3	52.7	75.0	1	6.0		1/0.33	19.2	480	3	13 1	15 1	1,200	
RTU-20	AAON	RQ-004-3	310 1	1000	1.2	2.0 0.	84 7	7.5 69.1	45.9	9	23.4	53.1	53.1	60.0	48.6	81	3.3:1	1 50).4 96	3 2	3.3	53.1	75.0	1	6.0		1/0.33	18.3	480	3	13 1	15 1	1,200	
RTU-21	AAON	RN-007-3	500 1	1375	1.2	2.0 0.	94 7	7.9 70.0	68.8	3	33.9	53.1	52.9	90.0	72.9	81	3:1	47	7.4 96	3	1.9	53.1	75.0	1	9.7		1/0.33	14.8	480	3	17 2	25 1	1,500	

F 919 781 3979

4600 Lake Boone Trail Suite 205 Raleigh, NC 27607

> 919-790-9989 PDC #22074

ID DATE DESCRIPTION

REMARKS

Senior

BASIS OF DESIGN IS R-454B

- GENERAL NOTES: ALL UNITS ARE DOWNFLOW ORIENTATION
- BASIS OF DESIGN HAVE VARIABLE SPEED SCROLL COMPRESSORS PROVIDE ALL DUCT TRANSITIONS FROM UNIT
- PROVIDE METAL MESH OUTDOOR AIR PREFILTER AND 2" MERV 13 FILTERS
- PROVIDE 0-100% ECONOMIZER WITH LOW LEAKAGE DAMPERS. PROVIDE DRY BULB SENSOR FOR ECONOMIZER OPERATION G. PROVIDE FACTORY CIRCUIT BREAKER IN NEMA 3R ENCLOSURE, SINGLE POINT POWER CONNECTION,
- AND 24 VOLT CONTROLS TRANSFORMER. 35 KA SCCR MINIMUM PROVIDE WALL MOUNTED TEMPERATURE SENSOR AND RETURN DUCT MOUNTED HUMIDITY SENSOR.
- PROVIDE WITH STAINLESS STEEL DRAIN PAN PROVIDE 30 inch TALL VIBRATION ISOLATION CURB WITH 2" SPRING ISOLATION. CURB SHALL BE RATED FOR PROJECT WIND ZONE. REFER TO THE CODE SUMMARY SHEET FOR INFORMATION. PROVIDE ENGINEERING CALCULATIONS WITH SUBMITTAL. CURB SHALL HAVE MINIMUM R-8.0
- INSULATION. PROVIDE FIELD WIRED 115 VOLT GFI RECEPTACLE
- PROVIDE DOUBLE-WALL CONSTRUCTION WITH R-13 FOAM INSULATION PROVIDE MODULATING GAS HEAT WITH STAINLESS STEEL HX
- PROVIDE MODULATING HOT HAS REHEAT PROVIDE CONDENSATE OVERFLOW SWITCH
- PROVIDE BACNET INTERFACE PROVIDE REMOTE DISPLAY OPTION
- PROVIDE PHASE LOSS AND PROTECTION, HAIL GUARDS, AND ACCESS DOORS PROVIDE MOTOR SHAFT GROUNDING FOR VFD MOTORS
- MECHANICAL CONTRACTOR SHALL PROVIDE FINAL GAS REGULATOR FOR ALL UNITS OPERATING
- WITH NATURAL GAS U. EQUIVALENTS BY GREENHECK, TRANE, OR AS LISTED IN THE SPECIFICATION.

	DUCTLESS SPLIT UNIT (OUTDOOR) SCHEDULE											
		TOTAL	HEATING	SEER	COMP.		ELECT	RICAL			WEIGHT	
MARK	MODEL	COOLING (MBH)	(MBH)	2	QTY/RLA	V	PH	MCA	MFS	HSPF	(LBS)	REMARKS
DSC-1	AM036TXMDCH/AA	36.0	42.0	20.5	1/17.3	208	1	23	40	10.0	220	
DSC-2	AM036TXMDCH/AA	36.0	42.0	20.5	1/17.3	208	1	23	40	10.0	220	
DSC-3	AC018BXSCCC/AA	18.0	-	20.5	1/8.2	208	1	13.5	15	-	90	

GENERAL NOTES:

- A. MODEL NUMBERS ARE BASED ON SAMSUNG EQUIPMENT. EQUIVALENTS BY MITSUBISHI, DAIKIN, LG, OR AS LISTED IN THE
- UNITS SHALL BE TESTED PER AHRI 1230 PROVIDE OPTIONAL WIND BAFFLE FOR ALL UNITS FOR LOW AMBIENT COOLING DOWN TO 0 DEG. F
- ALL ROOF CURBS/RAILS AND ATTACHMENTS THERETO SHALL BE THIRD PARTY LISTED FOR THE PROJECT WIND ZONE. ANCHORING
- DETAILS FOR THE UNIT TO THE RAILS, AND RAILS TO THE STRUCTURE, SHALL BE INCLUDED WITH THE SUBMITTAL E. PROVIDE EPOXY COATING ON CONDENSER COIL FOR 5000 HR SEA COAST APPLICATION.

	DUCTLESS SPLIT UNIT (INDOOR) SCHEDULE											
		SUPPLY		TOTAL	SENSIBLE	HEATING	E	LEC	TRICA	Ļ	WEIGHT	
MARK	MODEL	CFM	ESP	COOLING (MBH)	(MBH)	(MBH)	V	PH	FLA	MFS	(LBS)	REMARKS
DS-1A	AM018TNVDCH/AA	555	-	18.0	12.9	20.0	208	1	1	15	25	
DS-1B	AM018TNVDCH/AA	555	-	18.0	12.9	20.0	208	1	1	15	25	
DS-2A	AM018NNNDCH/AA	460	-	18.0	12.9	20.0	208	1	1	15	30	
DS-2B	AM018NNNDCH/AA	460	-	18.0	12.9	20.0	208	1	1	15	30	
DS-3	AC018BNADCH/AA	540	-	18.0	12.9	N/A	208	1	1	15	25	

GENERAL NOTES:

- A. MODEL NUMBERS ARE BASED ON SAMSUNG EQUIPMENT. EQUIVALENTS BY DAIKIN, MITSUBISHI, LG, OR AS LISTED IN THE
- PROVIDE CONDENSATE PUMP, POWERED DIRECTLY FROM INDOOR UNIT TERMINALS, WITH EACH UNIT. 1 GPH AT 33 FT OF HEAD PROVIDE WIRED CONTROLLER FOR ALL UNITS UNLESS OTHERWISE SPECIFIED
- D. UNITS SHALL BE TESTED PER AHRI 1230

	AIR DISTRIBUTION SCHEDULE												
MARK	MANUFACTURER	MODEL	PURPOSE	MIN CFM	MAX CFM	FACE SIZE	INLET SIZE	REMARKS					
10x6	PRICE	620	SUPPLY	30	175	-	10x6	<varies></varies>					
10x6R	PRICE	630	RETURN	-	-	-	10x6						
12x6	PRICE	620	SUPPLY	180	310	-	12x6	1,5					
16x6	PRICE	620	SUPPLY	315	425	-	14x6	1,5					
Α	PRICE	ASPD	SUPPLY	30	100	24x24	6	1,2,3					
В	PRICE	ASPD	SUPPLY	105	250	24x24	8	1,2,3					
С	PRICE	ASPD	SUPPLY	255	375	24x24	10	1,2,3					
LS4	PRICE	SDS100	SUPPLY	150	220	4' SLOT	8	6					
R	PRICE	APDDR	RETURN/EXHAUST	30	100	24x24	6	1,2,3,4					
S	PRICE	APDDR	RETURN/EXHAUST	105	220	24x24	8	1,2,3,4					
Т	PRICE	APDDR	RETURN/EXHAUST	225	375	24x24	10	1,2,3,4					
Z	PRICE	APDDR	RETURN	0	1400	24x24	22x22	1,2,4					

GENERAL NOTES:

- A. BASIS OF DESIGN IS PRICE. EQUIVALENTS BY TITUS, KRUEGER, TUTTLE AND BAILEY, NAILOR, OR AS LISTED IN
- SPECIFICATIONS PROVIDE VOLUME DAMPERS AT TAKE-OFF FOR EACH GRILLE ALL AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM
- THE PRICE MODELS SCHEDULED HERE ARE BASIS OF DESIGN, INCLUDING GENERATED NOISE. PROPOSED SUBSTITUTIONS WILL BE JUDGED BY THOSE CRITERIA ALSO
- E. WHERE LOCATED IN HARD CEILINGS, PROVIDE ALUMINUM MOUNT FRAME/PLASTER FRAME FOR HARD CEILING THAT ALLOWS DIFFUSER/GRILLE WITH FLEX CONNECTION TO BE LIFTED OUT OF FRAME TO ACCESS CEILING SPACE. TYPICAL OF ALL HARD CEILING LOCATIONS. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN
- FROM FACE OF DIFFUSER G. FOR DIFFUSERS AND GRILLES IN 1-HR RATED CEILINGS, PROVIDE CEILING RADIATION DAMPER WITH ROUND SIDE COLLAR CONNECTION. THE RADIATION DAMPER SHALL INCLUDE A FACTORY R6 DUCTBOARD PLENUM BOX AND SHALL ACCEPT A GRILLE OR DIFFUSER UP TO 2-1/2" THICK. PROVIDE PLASTER FLANGE AS DICTATED BY THE ARCHITECTURAL CEILING. COORDINATE SIZES WITH GRILLE/DIFFUSER DIMENSIONS. RUSKIN CFD7T-R6-DB OR APPROVED EQUIVALENT.

F. FOR SIDE WALL GRILLES, PROVIDE REMOTE CABLE OPERATED, GEAR DRIVEN BALANCING DAMPER OPERABLE

- PROVIDE WITH OFF-WHITE ENAMEL FINISH 2. PROVIDE WITH TRIM TO MATCH CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR
- PROVIDE DIFFUSER/GRILLE WITH ROUND NECK OR PROVIDE SQUARE TO ROUND TRANSITION
- ALL CEILING MOUNTED RETURN GRILLES SHALL BE FULL FACED. NO LAY-IN PANELS ALLOWED PROVIDE MANUAL OPPOSED BLADE DAMPER
- PROVIDE LINEAR SLOT PLENUM AND INTERNAL INSULATION. CONTRACTOR TO ALSO FIELD INSULATED EXTERIOR

KITCHEN HOOD SCHEDULE

G-097-VG

G-097-VG

G-098-VG

G-097-VG

G-097-VG

G-095-VG

G-098-VG

G-098-VG

CUE-095-VG

PROVIDE DUCT TRANSITIONS FOR ALL FANS

PROVIDE ALL FANS WITH SPEED CONTROLLERS.

HOUSINGS SHALL BE GALVANIZED STEEL

ALL FANS SHALL BE U.L. LISTED

G-097-VG

EXTERIOR FAN HOUSINGS SHALL BE CONSTRUCTED OF ALUMINUM. INTERIOR FAN

EXTERNALLY MOUNTED STARTER FURNISHED BY DIVISION 23 INSTALLED BY THE

EQUIVALENTS BY TWIN CITY, PENN, OR AS LISTED IN THE SPECIFICATIONS

PROVIDE WITH UNIT MOUNTED NEMA 3R DISCONNECT SWITCH

ALL FANS SHALL BE CERTIFIED IN ACCORDANCE WITH AMCA

KH-1, KH-2, KH-3 & KH-4

MARK MANUFACTURER

GREENHECK

GREENHECK

GREENHECK

GREENHECK

GREENHECK

GREENHECK

GREENHECK

GREENHECK

GREENHECK

GREENHECK

DIVISION 26

GREENHECK

GENERAL NOTES:

DOMESTIC RANGE HOOD. ZLINE OR EQUIVALENT BY BROAN, GE, OR AKDY.

36" WIDE, 400 CFM, CONVERTIBLE VENT ISLAND MOUNT RANGE HOOD. 430 STAINLESS STEEL FINISH. BUILT IN LIGHTING WITH 4 LED LIGHTS. 4-SPEED MOTOR. 115V/1PH/60 Hz. STAINLESS STEEL BAFFLE FILTERS. PROVIDE CHIMNEY EXTENSION KIT FOR 12' CEILING. UL OR ETL LISTED. PROVIDE REMOTE CONTROL FOR ADA COMPLIANCE.

RV-2

RV-3

RV-4

FAN SHALL BE CONTROLLED BY DDC SYSTEM. PROVIDE MEANS ON FRONT

PROVIDE DISCONNECT SWITCH, NEMA 1, TOGGLE, MOUNTED AND WIRED

FAN SCHEDULE

END GRAPHICS TO OVERRIDE FAN ON/OFF. PROVIDE 24" ROOF CURB WITH 2" INSULATION

FAN TO BE CONTROLLED BY THERMOSTAT

PROVIDE MANUAL SWITCH FOR CONTROL

0.49 0.17 0.05 1299 1400 6.7 115 1 50 140 0.41 0.25 0.04 1133 1200 4.8 115 1 50

70 0.30 0.25 0.01 858 900 2.5 115 1 50 350 0.55 0.25 0.07 1243 1300 6.3 115 1 50

90 0.35 0.25 0.03 960 1100 3.0 115 1 50

225 0.48 0.17 0.05 1282 1400 6.6 115 1 50

380 0.46 0.25 0.06 1187 1250 5.9 115 1 50

 350
 0.43
 0.25
 0.06
 1155
 1200
 5.7
 115
 1
 50

 180
 0.42
 0.25
 0.05
 1264
 1325
 6.0
 115
 1
 50

450 0.46 0.17 0.08 1379 1400 6.8 115 1 50

REMARKS:

140 | 0.41 | 0.25 | 0.04 | 1133 | 1200 | 4.8 | 115 | 1

- LENGTH AND WIDTH ARE THE DUCT CONNECTION DIMENSIONS EQUIVALENTS BY TWIN CITY, COOKE, OR AS LISTED IN THE
- SPECIFICATIONS ALL ROOF VENTS SHALL BE HIGH WIND RATED FOR LOADS UP TO 70 PSF WITHOUT TIE DOWNS. PROVIDE MIAMI-DADE NOA WITH SUBMITTAL

REMARKS

1,2,3

1,2,3

ROOF VENT SCHEDULE

10 0.69

0.69

0.69

0.08

0.08 0.08 0.08

MANUFACTURER MODEL SYSTEM CFM LENGTH WIDTH FREE AREA MAX APD

 FGR
 EXHAUST
 400
 10
 10

 FGR
 EXHAUST
 400
 10
 10

 FGR
 EXHAUST
 400
 10
 10

EXHAUST 400

PROVIDE ALUMINUM BIRDSCREEN

GREENHECK

GREENHECK

GREENHECK

GREENHECK

PROVIDE 24 INCH TALL ROOF CURB PROVIDE PERMATECTOR OR EQUIVALENT FINISH. ARCHITECT TO SELECT

> DRAWN BY: CHECKED BY: **MECHANICAL**

16 OCT. 2024

SCHEDULES

SWC