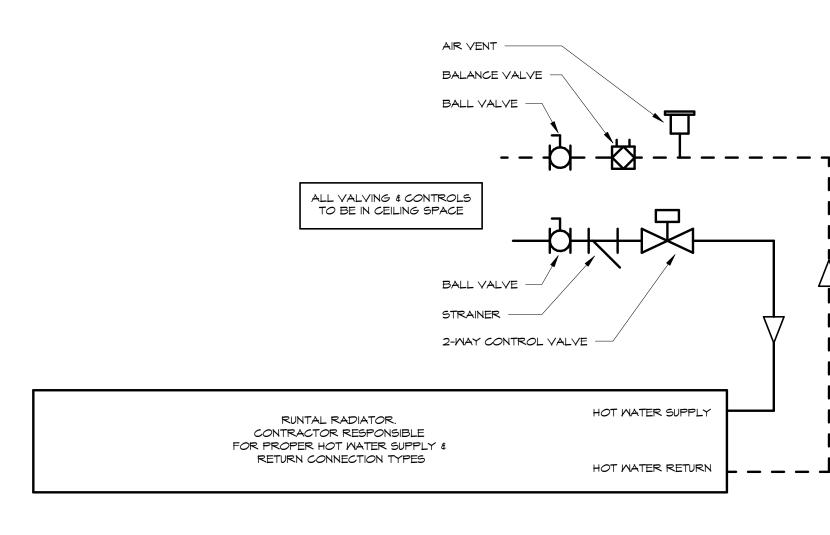
## HVAC LEGEND

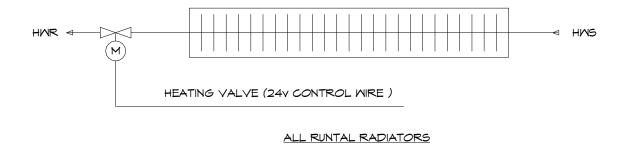
PIPING SYMBOL	DESCRIPTION	PIPING SYMBOL	DESCRIPTION
	PIPING RISE	AD	ACCESS DOOR
<u>````````````````````````````````</u>	PIPING DROP	AFF	ABOVE FINISH FLOOR
^		BTUH	BRITISH THERMAL UNITS PER HOUR
	BOTTOM PIPE CONNECTION	$DIA, \Phi$	DIAMETER
		DN	DOWN
	TOP PIPE CONNECTION	(E)	EXISTING
		ENT	ENTERING WATER TEMPERATURE (°F)
——————————————————————————————————————	STRAINER	°F	DEGREES FAHRENHEIT
*		GPM	GALLONS PER MINUTE
	BALANCE VALVE	HWR	HOT WATER RETURN
		HMS	HOT WATER SUPPLY
	PIPING REDUCER - CONCENTRIC	LMT	LEAVING WATER TEMPERATURE (°F)
]	PIPE CAP	NTS	NOT TO SCALE
	RUNTAL RADIATION WITH ENCLOSURE		
T	THERMOSTAT		
	2-WAY CONTROL VALVE		
	MANUAL AIR VENT		
	BALL VALVE - OPEN		





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UNIT NO.	LOCATION		CAPAC	DESIGN BASIS	NOTES			
		E.W.T. L.W.T. BTUH PER (degrees F) (degrees F) LINEAR FT		LENGTH	HEIGHT			
FTR-1	SEE PLANS	180	150	950	SEE PLANS	11.5"	RUNTAL - RF-5	
FTR-2	SEE PLANS	180	150	800	SEE PLANS	11.5"	RUNTAL - UFLT-4	
FTR-3	SEE PLANS	180	150	500	SEE PLANS	6"	RUNTAL - UFLT-2	

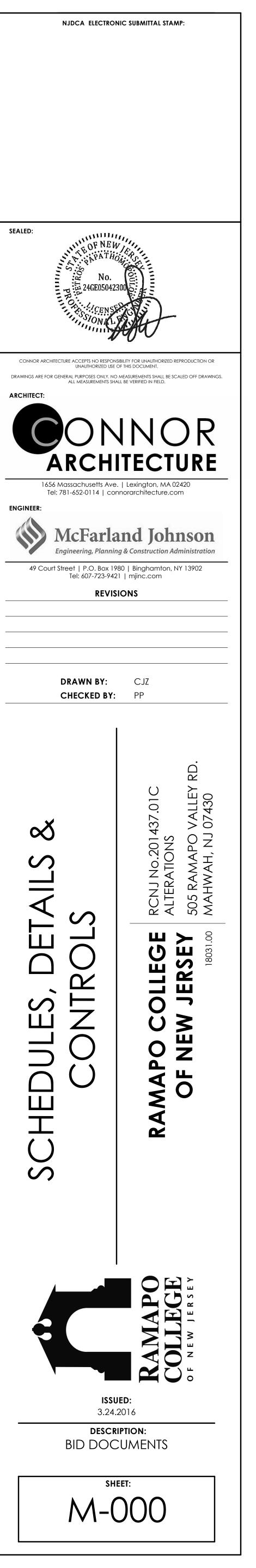


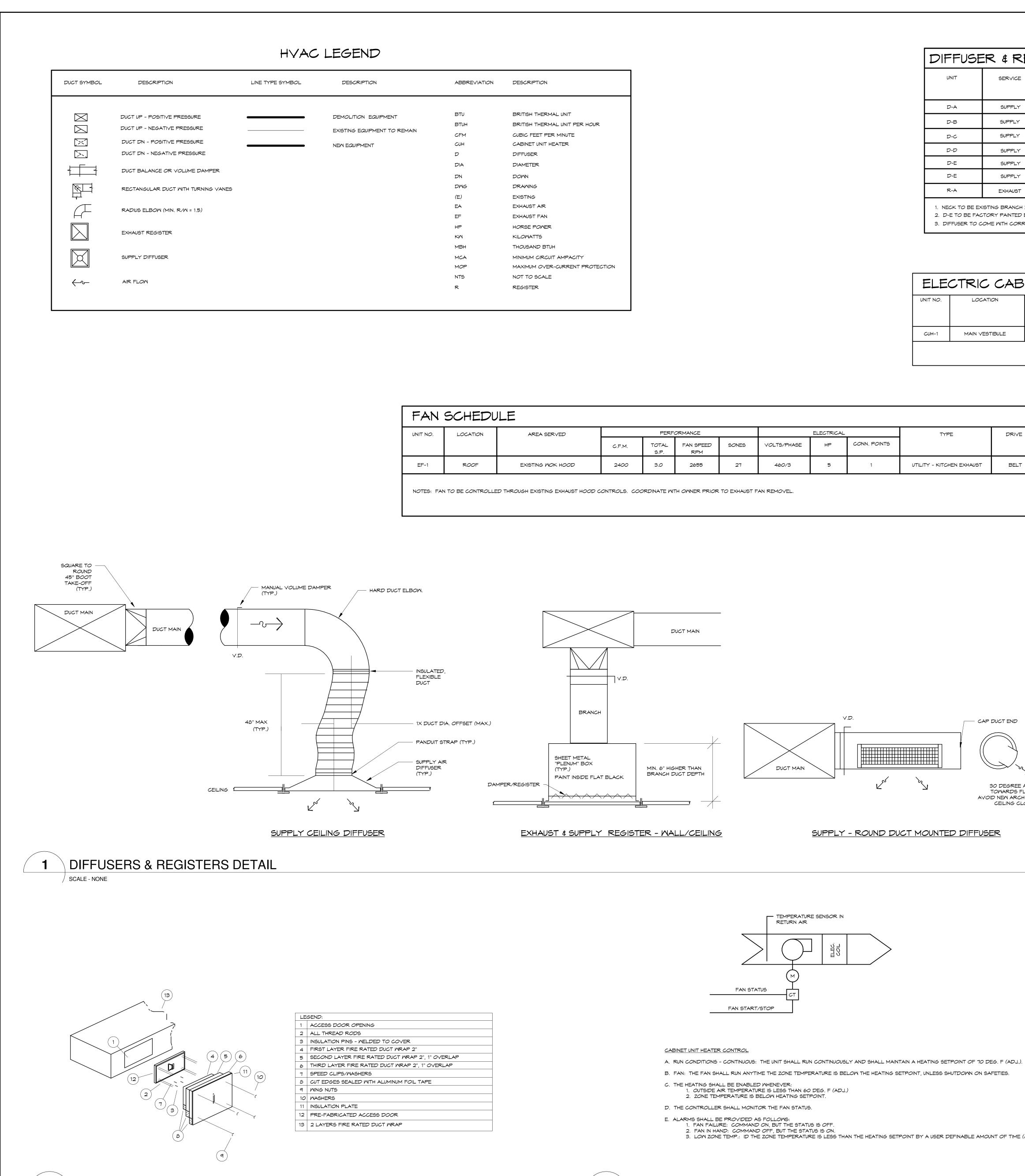


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RUNTAL RADIATION CONTROL

A. RUN CONDITIONS - CONTINUOUS: THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN A HEATINGB SETPOINT OF 70 DEGREE F (ADJ.). B. HEATING VALVE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE HEATING COIL VALVE TO MAINTAIN ITS HEATING SETPOINT.





FIRE RATED DUCT ACCESS DOOR DETAIL 3

SCALE - NONE

TION	DESCRIPTION	
	BRITISH THERMAL UNIT	
	BRITISH THERMAL UNIT PER HOUR	
	CUBIC FEET PER MINUTE	
	CABINET UNIT HEATER	
	DIFFUSER	
	DIAMETER	
	DOWN	
	DRAWING	
	EXISTING	
	EXHAUST AIR	
	EXHAUST FAN	
	HORSE POWER	
	KILOWATTS	
	THOUSAND BTUH	
	MINIMUM CIRCUIT AMPACITY	
	MAXIMUM OVER-CURRENT PROTECTION	
	NOT TO SCALE	
	REGISTER	

UNIT	SERVICE	MAX CFM	FACE SIZE	NECK SIZE	MAX. NC	MAX. S.P. (in. wc.)	ARRANGEMENT	DESIGN BASIS	NOTE
D-A	SUPPLY	250	12x12	10"	12	0.3	CEILING	TITUS SPECTRUM	
D-B	SUPPLY	300	18×8	-	15	0.07	DUCT MOUNTED	TITUS SPIRAL S301FL DOUBLE DEFLECTION	
D-C	SUPPLY	200	14x6	CUSTOM	12	0.03	MALL	TITUS 300RS	
D-D	SUPPLY	250	12x12	-	12	0.3	CEILING	TITUS SPECTRUM	1
D-E	SUPPLY	1000	36x12	-	15	0.3	MALL	TITUS 300RS	1, 2
D-E	SUPPLY	350	48x6	8" PLENUM	20	0.5	CEILING	TITUS FLOW BAR FL15 1.5" SLOT JET	з
R-A	EXHAUST	450	24x24	-	10	0.03	CEILING	TITUS 300RS	1

ELECTRIC CABINET UNIT HEATER SCHEDULE											
UNIT NO.	LOCATION	CFM	I	DIMENSION	5		ELECTRICAL	DESIGN BASIS	NOTES		
			LENGTH	MIDTH	HEIGHT	CAPACITY (BTUH)	CAPACITY (KM)	VOLTS/PHASE	HP		
CUH-1	MAIN VESTIBULE	300	36	30	10	10,236	ЗКМ	208/1	1/4	TRANE - FCEB030	

ION	AREA SERVED	PERFORMANCE		PERFORMANCE ELECTRICAL		-	TYPE		ROOF OPG.	ROOF OPG.	PHYSICAL PROPERTIES			DESIGN BASIS	NOTES			
		C.F.M.	TOTAL	FAN SPEED	SONES	VOLTS/PHASE	HР	CONN. POINTS			LENGTH	MIDTH						
		C.I .IM.	S.P.	RPM	001120								LENGTH"	WIDTH"	HEIGHT"	WEIGHT LBS.		
۶F	EXISTING WOK HOOD	2400	3.0	2655	27	460/3	5	1	UTILITY - KITCHEN EXHAUST	BELT	-	-	40	28	32	280	GREENHECK-13-CSM-BI-21-10-I-50	1

- CAP DUCT END

30 DEGREE ANGLE

TOWARDS FLOOR, AVOID NEW ARCHITECTURAL

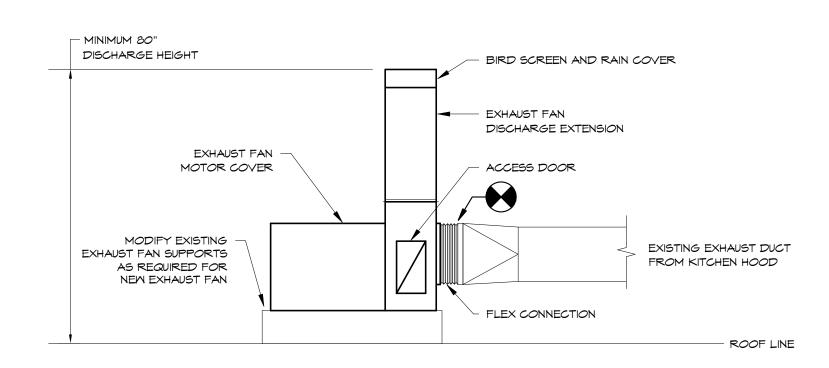
CEILING CLOUD.

SUPPLY - ROUND DUCT MOUNTED DIFFUSER

3. LOW ZONE TEMP .: ID THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT OF TIME (AD.).

CABINET UNIT HEATER CONTROL

4 SCALE - NONE

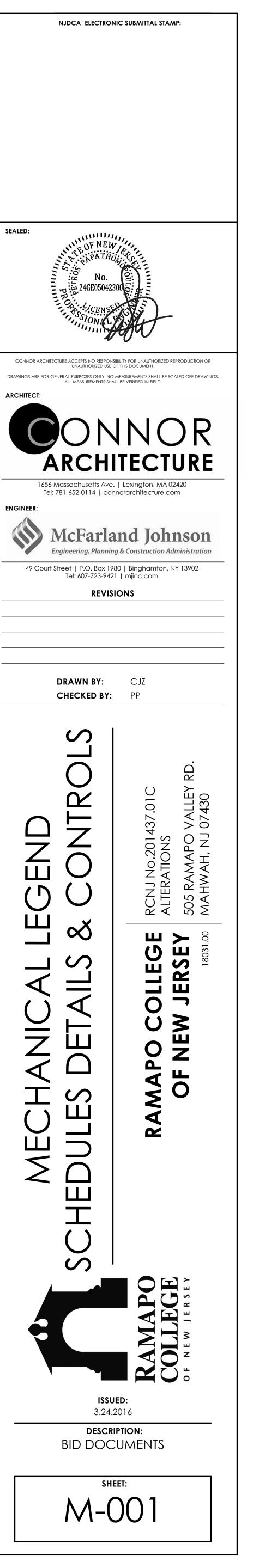




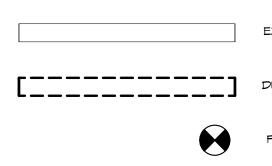


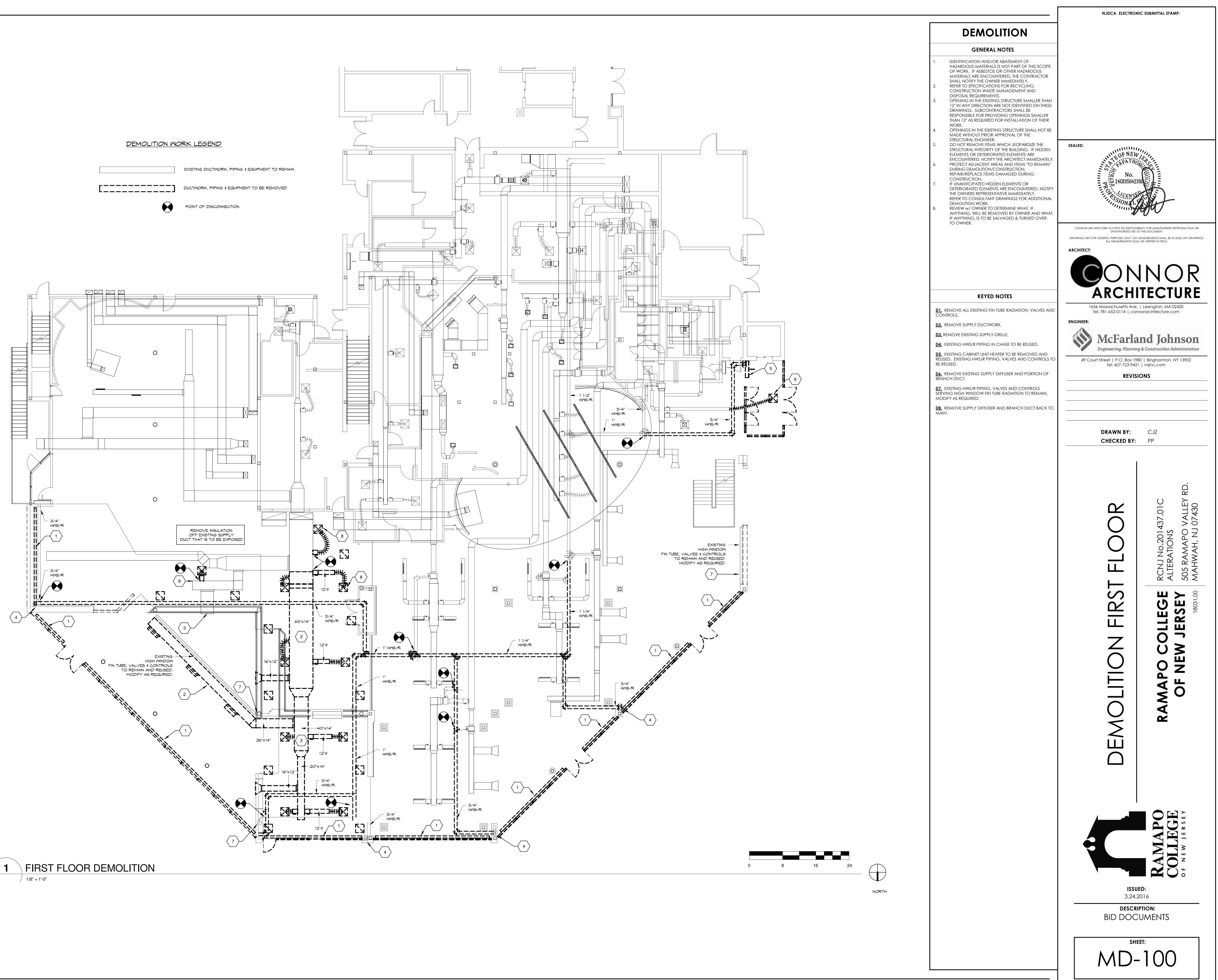
5 EXISTING EXHAUST FAN

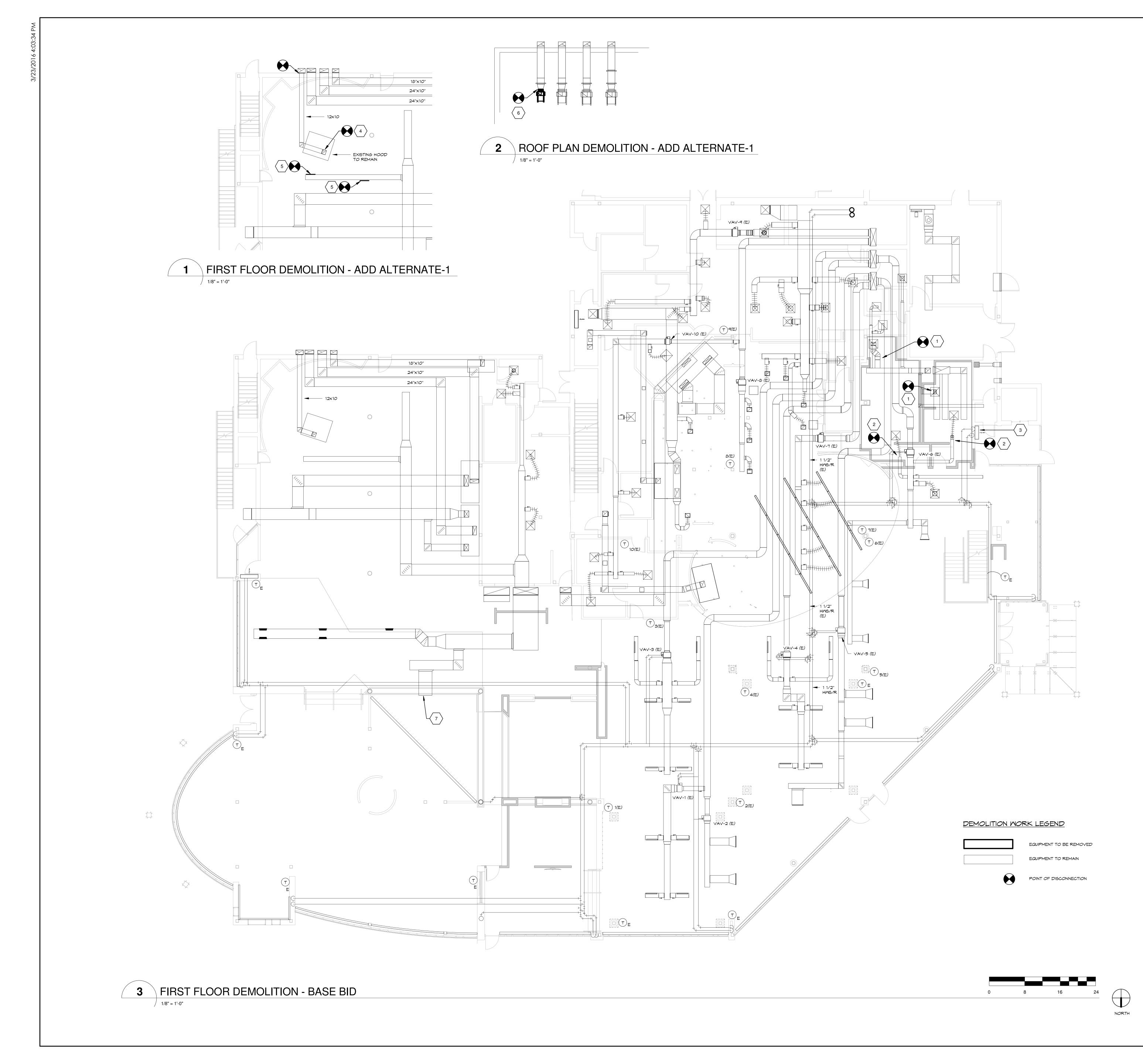
SCALE - NONE











## DEMOLITION

### GENERAL NOTES

IDENTIFICATION AND/OR ABATEMENT OF
HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE
OF WORK. IF ASBESTOS OR OTHER HAZARDOUS
MATERIALS ARE ENCOUNTERED, THE CONTRACTOR
SHALL NOTIFY THE OWNER IMMEDIATELY.
REFER TO SPECIFICATIONS FOR RECYCLING,
CONSTRUCTION WASTE MANAGEMENT AND
DISPOSAL REQUIREMENTS.
OPENING IN THE EXISTING STRUCTURE SMALLER THAN
12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE
DRAWINGS. SUBCONTRACTORS SHALL BE
RESPONSIBLE FOR PROVIDING OPENINGS SMALLER
THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR
WORK.
OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE
MADE WITHOUT PRIOR APPROVAL OF THE
STRUCTURAL ENGINEER.
DO NOT REMOVE ITEMS WHICH JEOPARDIZE THE
STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN
ELEMENTS OR DETERIORATED ELEMENTS ARE
ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
PROTECT ADJACENT AREAS AND ITEMS "TO REMAIN"
DURING DEMOLITION/CONSTRUCTION.
REPAIR/REPLACE ITEMS DAMAGED DURING
CONSTRUCTION.
IF UNANTICIPATED HIDDEN ELEMENTS OR
DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY

THE OWNERS REPRESENTATIVE IMMEDIATELY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION WORK. REVIEW w/ OWNER TO DETERMINE WHAT, IF ANYTHING, WILL BE REMOVED BY OWNER AND WHAT, IF ANYTHING, IS TO BE SALVAGED & TURNED OVER

TO OWNER.

#### **KEYED NOTES**

<u>D1.</u> REMOVE EXISTING EXHAUST GRILLE AND 2'-0" PORTION OF EXISTING EXHAUST BRANCH DUCT. PER BASE BID.
 <u>D2.</u> REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED FLEX DUCT. PER BASE BID.

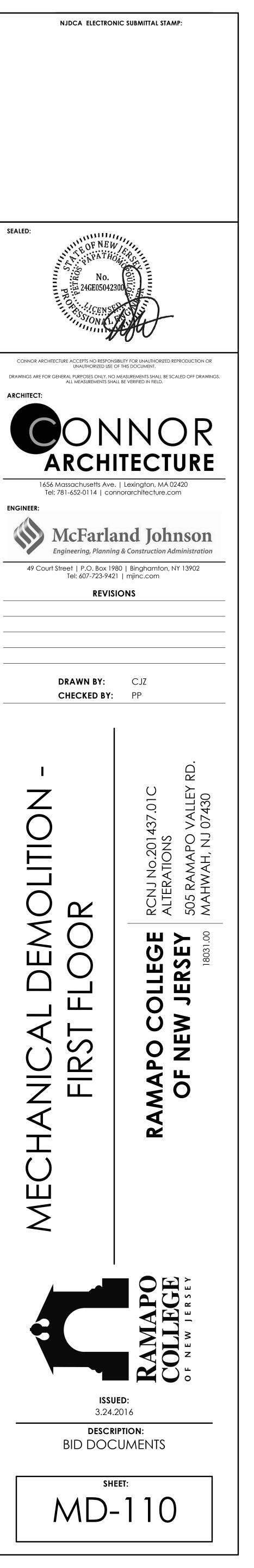
**D3.** EXISTING CABINET UNIT HEATER TO BE TEMPORARILY DISCONNECTED FROM EXISTING HWS/R PIPING, CONTROLS AND POWER. EXISTING CABINET UNIT HEATER TO BE RELOCATED. MODIFY EXISTING HWS/R PIPING, VALVES & CONTROLS AS REQUIRED AND REUSE.

**D4.** REMOVE EXISTING 12x10 GREASE EXHAUST DUCT FROM EXISTING HOOD BACK TO EXTERIOR WALL PENETRATION. PER ADD ALTERNATE-1.

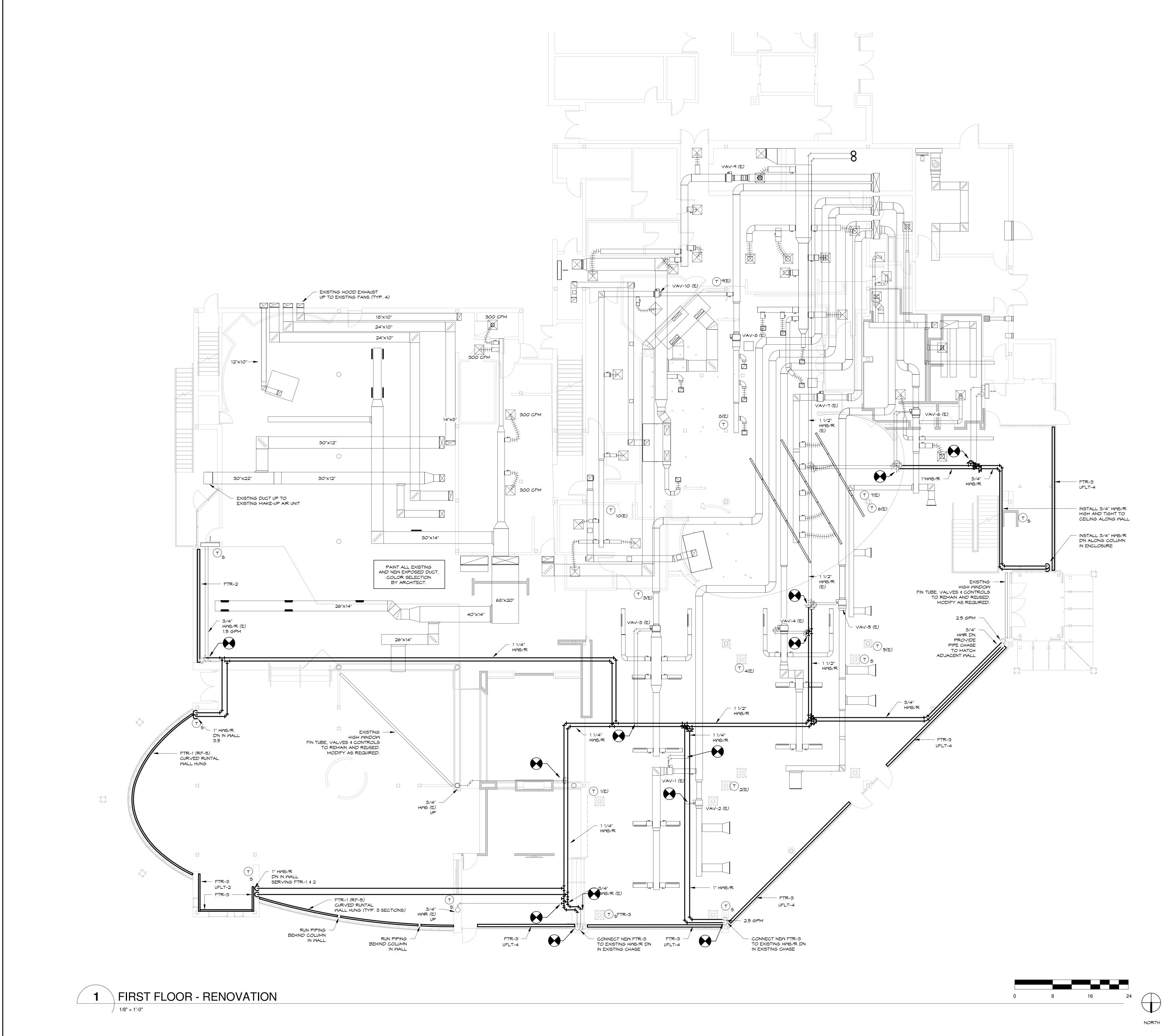
**D5.** REMOVE EXISTING SUPPLY GRILLE, INSULATE AND PATCH EXISTING SUPPLY DUCT. PAINT TO MATCH EXISTING DUCT COLOR. PER ADD ALTERNATE -1.

**D6.** REMOVE EXISTING GREASE EXHAUST HOOD FAN. EXISTING CONTROLS AND ROOF SUPPORTS TO REMAIN AND BE REUSED. PER ADD ALTERNATE -1.

**<u>D7.</u>** REMOVE EXISTING SUPPLY GRILLE. PER BASE BID.







# ADDITION/ALTERATION

### GENERAL NOTES

- IDENTIFICATION AND/OR ABATEMENT OF HAZARDOUS MATERIALS IS NOT PART OF THIS SCOPE OF WORK. IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR
- SHALL NOTIFY THE OWNER IMMEDIATELY. REFER TO SPECIFICATIONS FOR RECYCLING, CONSTRUCTION WASTE MANAGEMENT AND
- DISPOSAL REQUIREMENTS. 3. OPENING IN THE EXISTING STRUCTURE SMALLER THAN 12" IN ANY DIRECTION ARE NOT IDENTIFIED ON THESE DRAWINGS. SUBCONTRACTORS SHALL BE
- RESPONSIBLE FOR PROVIDING OPENINGS SMALLER THAN 12" AS REQUIRED FOR INSTALLATION OF THEIR WORK.
- OPENINGS IN THE EXISTING STRUCTURE SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
   DO NOT REMOVE ITEMS WHICH JEOPARDIZE THE
- STRUCTURAL INTEGRITY OF THE BUILDING. IF HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY THE ARCHITECT IMMEDIATELY.
  PROTECT ADJACENT AREAS AND ITEMS "TO REMAIN" DURING DEMOLITION/CONSTRUCTION.
- REPAIR/REPLACE ITEMS DAMAGED DURING CONSTRUCTION.
  7. IF UNANTICIPATED HIDDEN ELEMENTS OR DETERIORATED ELEMENTS ARE ENCOUNTERED, NOTIFY
- THE OWNERS REPRESENTATIVE IMMEDIATELY.
  REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
  8. REVIEW W/ OWNER TO DETERMINE WHAT, IF
  ANYTHING, WILL BE REMOVED BY OWNER AND WHAT
- ANYTHING, WILL BE REMOVED BY OWNER AND WHAT, IF ANYTHING, IS TO BE SALVAGED & TURNED OVER TO OWNER.

KEYED NOTES

