

ORIGINAL USE ARCHITECT (BNA) 4/15/2024 1:41:12 PM
C:\Users\jcm\OneDrive - Lawrence Perry and Associates\Documents\2011 L. Bedford County - HVAC - RCH - JCM\20240612\001

VARIABLE AIR VOLUME HEATING BOXES: TRANE												
MARK	TYPE	MAX AIR F.D., IN. W.C.	INLET Ø, IN.	COOLING CFM		HEATING CFM	HEATING CAPACITY KW	ELEC VOLTS/PH	MODEL #			NOTES
				MAX	DCV MIN	MIN						
VAV-001	SHUT-OFF	0.25	8	350	---	105	235	2.5	277 / 1	VCEF		1,2,3,4
VAV-002	SHUT-OFF	0.25	6	350	---	105	235	2.5	277 / 1	VCEF		1,2,3,4
VAV-003	SHUT-OFF	0.25	8	700	---	215	470	6.0	480 / 3	VCEF		1,2,3,4
VAV-004	SHUT-OFF	0.25	8	800	---	245	540	7.0	480 / 3	VCEF		1,2,3,4
VAV-005	SHUT-OFF	0.25	10	1000	---	310	675	8.5	480 / 3	VCEF		1,2,3,4
VAV-006	SHUT-OFF	0.25	6	450	---	135	300	4.0	480 / 3	VCEF		1,2,3,4
VAV-007	SHUT-OFF	0.25	8	575	---	175	385	5.0	277 / 1	VCEF		1,2,3,4
VAV-008	SHUT-OFF	0.25	4	225	---	75	150	1.5	277 / 1	VCEF		1,2,3,4
VAV-009	SHUT-OFF	0.25	5	300	---	90	200	2.0	277 / 1	VCEF		1,2,3,4
VAV-010	SHUT-OFF	0.25	5	325	---	105	220	2.0	277 / 1	VCEF		1,2,3,4
VAV-011	SHUT-OFF	0.25	5	275	---	85	185	2.0	277 / 1	VCEF		1,2,3,4
VAV-012	SHUT-OFF	0.25	6	400	---	120	270	2.5	277 / 1	VCEF		1,2,3,4
VAV-013	SHUT-OFF	0.25	5	300	---	90	200	2.0	277 / 1	VCEF		1,2,3,4
VAV-014	SHUT-OFF	0.25	6	450	---	135	300	3.0	277 / 1	VCEF		1,2,3,4
VAV-015	SHUT-OFF	0.25	8	475	---	145	320	3.0	277 / 1	VCEF		1,2,3,4
VAV-016	SHUT-OFF	0.25	8	575	---	175	390	3.5	277 / 1	VCEF		1,2,3,4
VAV-101	SHUT-OFF	0.25	12	1450	---	435	970	12.5	480 / 3	VCEF		1,2,3,4
VAV-102	SHUT-OFF	0.25	4	110	---	35	75	1.0	277 / 1	VCEF		1,2,3,4
VAV-103	SHUT-OFF	0.25	5	250	---	85	170	2.0	277 / 1	VCEF		1,2,3,4
VAV-104	SHUT-OFF	0.25	8	600	---	185	405	5.0	480 / 3	VCEF		1,2,3,4
VAV-105	SHUT-OFF	0.25	8	725	---	220	485	6.0	480 / 3	VCEF		1,2,3,4
VAV-106	SHUT-OFF	0.25	10	925	---	280	625	8.0	480 / 3	VCEF		1,2,3,4
VAV-107	SHUT-OFF	0.25	12	1800	240	540	1200	15.0	480 / 3	VCEF		1,2,3,4,5
VAV-108	SHUT-OFF	0.25	8	725	---	220	485	6.0	480 / 3	VCEF		1,2,3,4
VAV-109	SHUT-OFF	0.25	8	575	---	175	385	5.0	480 / 3	VCEF		1,2,3,4
VAV-110	SHUT-OFF	0.25	8	825	---	255	555	7.0	480 / 3	VCEF		1,2,3,4
VAV-111	SHUT-OFF	0.25	5	300	---	100	200	2.0	277 / 1	VCEF		1,2,3,4
VAV-112	SHUT-OFF	0.25	6	450	---	135	300	3.0	277 / 1	VCEF		1,2,3,4
VAV-113	SHUT-OFF	0.25	6	375	---	115	250	2.5	277 / 1	VCEF		1,2,3,4
VAV-114	SHUT-OFF	0.25	6	450	---	135	300	3.0	277 / 1	VCEF		1,2,3,4
VAV-115	SHUT-OFF	0.25	5	275	---	85	185	2.0	277 / 1	VCEF		1,2,3,4
VAV-116	SHUT-OFF	0.25	6	350	---	105	235	2.5	277 / 1	VCEF		1,2,3,4
VAV-201	SHUT-OFF	0.25	8	450	---	135	300	3.5	277 / 1	VCEF		1,2,3,4
VAV-202	SHUT-OFF	0.25	6	375	---	115	250	2.5	277 / 1	VCEF		1,2,3,4
VAV-203	SHUT-OFF	0.25	4	200	---	60	135	1.5	277 / 1	VCEF		1,2,3,4
VAV-204	SHUT-OFF	0.25	8	700	---	210	465	6.0	480 / 3	VCEF		1,2,3,4
VAV-205	SHUT-OFF	0.25	8	675	---	210	460	6.0	480 / 3	VCEF		1,2,3,4
VAV-206	SHUT-OFF	0.25	8	500	---	150	335	4.5	480 / 3	VCEF		1,2,3,4
VAV-207	SHUT-OFF	0.25	8	525	---	165	360	4.5	480 / 3	VCEF		1,2,3,4
VAV-208	SHUT-OFF	0.25	6	400	---	120	270	3.5	277 / 1	VCEF		1,2,3,4
VAV-209	SHUT-OFF	0.25	8	750	---	225	505	6.5	480 / 3	VCEF		1,2,3,4
VAV-210	SHUT-OFF	0.25	6	450	---	135	300	4.0	480 / 3	VCEF		1,2,3,4
VAV-211	SHUT-OFF	0.25	6	425	---	130	285	3.5	277 / 1	VCEF		1,2,3,4
VAV-212	SHUT-OFF	0.25	8	575	---	175	385	5.0	480 / 3	VCEF		1,2,3,4
VAV-213	SHUT-OFF	0.25	8	575	---	175	385	5.0	480 / 3	VCEF		1,2,3,4
VAV-214	SHUT-OFF	0.25	6	450	---	135	300	3.5	277 / 1	VCEF		1,2,3,4
VAV-215	SHUT-OFF	0.25	10	1075	---	325	720	9.0	480 / 3	VCEF		1,2,3,4
VAV-216	SHUT-OFF	0.25	5	375	---	115	250	2.5	277 / 1	VCEF		1,2,3,4
VAV-217	SHUT-OFF	0.25	6	450	---	135	300	2.5	277 / 1	VCEF		1,2,3,4
VAV-218	SHUT-OFF	0.25	5	400	---	120	270	2.5	277 / 1	VCEF		1,2,3,4
VAV-219	SHUT-OFF	0.25	5	300	---	100	200	2.0	277 / 1	VCEF		1,2,3,4
VAV-220	SHUT-OFF	0.25	8	500	---	150	335	3.0	277 / 1	VCEF		1,2,3,4
VAV-221	SHUT-OFF	0.25	6	450	---	135	300	3.0	277 / 1	VCEF		1,2,3,4
VAV-301	SHUT-OFF	0.25	12	1550	250	465	1035	13.5	480 / 3	VCEF		1,2,3,4,5
VAV-302	SHUT-OFF	0.25	12	1550	250	465	1035	13.5	480 / 3	VCEF		1,2,3,4,5
VAV-303	SHUT-OFF	0.25	12	1550	250	465	1035	13.5	480 / 3	VCEF		1,2,3,4,5
VAV-304	SHUT-OFF	0.25	8	550	---	165	370	4.5	480 / 3	VCEF		1,2,3,4
VAV-305	SHUT-OFF	0.25	10	925	---	280	620	7.0	480 / 3	VCEF		1,2,3,4
VAV-306	SHUT-OFF	0.25	10	1250	---	375	835	10.5	480 / 3	VCEF		1,2,3,4
NOTES:												
1. BOX AIR PRESSURE DROP (INCLUDING HEATING COIL) SHALL NOT EXCEED THE SCHEDULED QUANTITY.												
2. ELECTRIC HEATERS SHALL HAVE SCR CONTROL.												
3. PROVIDE STEP-DOWN TRANSFORMER FROM SCHEDULED UNIT VOLTAGE TO 24V. PROVIDE DISCONNECT SWITCH.												
4. ROUND DUCT FROM MAIN TO VAV INLET SHALL MATCH SCHEDULED INLET DIMENSION UNLESS OTHERWISE NOTED.												
4. PROVIDE MINIMUM DEMAND CONTROL VENTILATION (DCV) SETPOINT AS NOTED.												

FANS: GREENHECK									
MARK	TYPE	CFM	ESP	RPM	MOTOR HP	VOLTS/PH	UNIT WEIGHT (LBS)	MODEL	NOTES
IEF-1	INLINE	350	0.40	1,297	1/4	115/1	50	SQ-98-VG	1,2,4
IEF-2	INLINE	375	0.40	1,867	1/4	115/1	50	SQ-98-VG	1,2,4
IEF-3	INLINE	550	0.40	1,653	1/4	115/1	50	SQ-98-VG	1,2,4
IEF-4	INLINE	2,150	0.50	1,795	1	280/3	84	SQ-12-M2-VG	1,2,3,5
IEF-5	INLINE	300	0.40	1,221	1/4	115/1	50	SQ-98-VG	1,2,4
IEF-6	INLINE	350	0.40	1,297	1/4	115/1	50	SQ-98-VG	1,2,3,6
IEF-7	INLINE	350	0.40	1,297	1/4	115/1	50	SQ-98-VG	1,2,3,6
IEF-8	INLINE	350	0.40	1,297	1/4	115/1	50	SQ-98-VG	1,2,3,6
NOTES:									
1. PROVIDE FACTORY INSTALLED DISCONNECT SWITCH.					2. PROVIDE SPEED CONTROLLER FOR AIR BALANCE OF FAN.				
3. PROVIDE LINE-VOLTAGE COOLING-ONLY THERMOSTAT.					4. RUN CONTINUOUSLY DURING BUILDING OCCUPIED MODE.				
5. INTERLOCK FAN WITH INTAKE AND EXHAUST MOTOR OPERATED DAMPERS.					6. PROVIDE FAN INLET GUARD COVER.				

SPLIT SYSTEM HEAT PUMP: TRANE											
MARK	TYPE	AIRFLOW (CFM) (HIGH/MED/LOW)	COOLING		HEATING		ELECTRICAL			MODEL	NOTES
			TOTAL CAP (MBH)	EAT COOLING DEG F. DB/WB	TOTAL CAP (MBH)	EAT HEATING DEG F.	V/PH	MCA	MOCP		
DSS-1	WALL-MOUNTED	385 / 325 / 265	12	80 / 67	---	---	POWERED BY OUTDOOR UNIT			PKA-AL12NL	2,3,4
ODU-1	OUTDOOR CONDENSING UNIT	---	---	---	---	---	208 / 1	16	27	PUY-AK12NL	1,5
NOTES:											
1. COOLING AND HEATING CAPACITY BASED ON ARI CONDITIONS.											
2. FURNISH WITH SEVEN DAY PROGRAMMABLE THERMOSTAT, MANUFACTURER CONTROLS, AND CONDENSATE DRAIN ALARM.											
3. PROVIDE 208V CONDENSATE DRAIN PUMP PER MANUFACTURER SPECIFICATIONS, AND DISCONNECT SWITCH.											
4. COOLING OPERATION ONLY. LOCK OUT HEATING MODE.											
5. MOUNT ON HOUSEKEEPING PAD.											

AIR HANDLING UNITS: TRANE			
UNIT MARK	AHU-1 / CU-1	RTU-1	
AREA SERVED	OFFICE WING	TRAINING WING	
CV OR VAV	MULTI-ZONE VAV	MULTI-ZONE VAV	
SUPPLY FAN AIRFLOW, CFM	25,000	6,475	
ESP, IN. W.C.	1.50	1.50	
MOTOR Hp	15	4.8	
OUTSIDE AIRFLOW, CFM (DCV / DESIGN)	4460 / 4570	835 / 1670	
RETURN FAN AIRFLOW, CFM	22,500	---	
ESP, IN. W.C.	1.50	---	
MOTOR Hp	15	---	
COOLING COIL (DX)			
TOTAL CAPACITY, MBH	1,025.7	234.9	
SENSIBLE CAPACITY, MBH	685.5	171.6	
ENT. AIR TEMP. * F, DB / WB	80 / 67	82.5 / 68.3	
LEAV. AIR TEMP. * F, DB / WB	55.0 / 53.6	58.4 / 56.9	
HEAT PUMP MODE			
TOTAL CAPACITY, MBH	---	235.9	
HEATING AIRFLOW, CFM	---	4,315	
ENT. AIR TEMP. * F, DB / WB	---	45	
LEAV. AIR TEMP. * F, DB / WB	---	84.2	
HEATING			
HEATING AIRFLOW, CFM	16,665	4,315	
CAPACITY, KW	224.8	72	
ENT. AIR TEMP. * F, DB / WB	45	45	
LEAV. AIR TEMP. * F, DB / WB	80	79.5	
FILTERS (TYPE)			
SUPPLY	MERV 13	MERV 13	
UNIT ELECTRICAL, V / Ph	460/3	460/3	
MCA / MOP, A	---	142 / 150	
SCCR, KAIC	---	65	
CIRCUIT 1 MCA / MOP, A	86.65 / 125	---	
CIRCUIT 1 SCCR, KAIC	65	---	
CIRCUIT 2 MCA / MOP, A	282.47 / 300	---	
CIRCUIT 2 SCCR, KAIC	N/A	---	
ESTIMATED UNIT WEIGHT, LBS	12,206	2,582	
UNIT MODEL NO.	PSC4052	WSK240AS9R	
OUTDOOR CONDENSING UNIT			
NOMINAL CAPACITY, MBH	960	---	
UNIT ELECTRICAL, V / Ph	460 / 3	---	
MCA / MOP, A	178 / 200	---	
SCCR, KAIC	65	---	
ESTIMATED UNIT WEIGHT, LBS	5,351	---	
UNIT MODEL NO.	INTELLOCORE 80T	---	
AHU-1 / CU-1 NOTES:			
1. COOLING SELECTIONS BASED ON 93.1°F AMBIENT TEMP.			
2. HEAT PUMP HEATING PERFORMANCE BASED ON 45°F AMBIENT TEMP.			
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH FOR AHU & CU.			
4. PROVIDE FACTORY MOUNTED VFDs.			
5. MOUNT CU-1 ON HOUSEKEEPING PAD W/ MANUFACTURER VIBRATION PADS.			
6. MOUNT AHU-1 ON HOUSEKEEPING PAD.			
7. SUPPLY FAN EXTERNAL STATIC PRESSURE INCLUDES 0.25 INCHES H2O FOR FILTER LOADING.			
8. PROVIDE ENTHALPHY ECONOMIZER.			
RTU-1 NOTES:			
1. COOLING SELECTIONS BASED ON 93.1°F AMBIENT TEMP.			
2. HEATING SELECTIONS BASED ON 13°F AMBIENT TEMP.			
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND FACTORY WIRED GFI OUTLET.			
4. PROVIDE FACTORY MOUNTED VFD.			
5. PROVIDE 14" CURBS SUITABLE FOR PITCHED ROOF.			
6. SUPPLY FAN EXTERNAL STATIC PRESSURE INCLUDES 0.25 INCHES H2O FOR FILTER LOADING.			
7. PROVIDE ENTHALPHY ECONOMIZER KIT WITH BAROMETRIC RELIEF DAMPER.			



M101



ORIGINAL SOURCE: ARCH E1 [3042] | 6/13/2006 1:34:15 PM
C:\Users\jcm\OneDrive - Lawrence Perry And Associates\Documents\25114 - Bedford DSS - MECH - R26 - warranville199GM

A

B

C D

E

F

G

H

GENERAL NOTES:

- ALL TRANSFER DUCT DIMENSIONS ARE OUTSIDE DUCT DIMENSIONS AND INCLUDE 1" ACOUSTICAL LINING.

PLAN NOTES: (E)

- MOUNT BOTTOM OF UNIT HEATER 7'-0" AFF. COORDINATE LOCATION WITH PLUMBING TO AVOID PIPING.
- 36"x24" EXHAUST LOUVER. LOCATE LOUVER AND ASSOCIATED FAN TIGHT TO STRUCTURE ABOVE.
- 72"x18" INTAKE LOUVER. LOCATE ABOVE DOOR WITHIN DOOR FRAMING.
- PROVIDE FAN INLET GUARD.
- SA & RA DUCT TO/FROM RTU-1 ON ROOF ABOVE. SEE M103 FOR EXTERIOR DUCTWORK CONNECTING TO RTU1 ON FLOOR ABOVE.
- SA DUCT DN. COORDINATE DUCT WITH PLUMBING PIPING IN CHASE.
- DUAL-CIRCUIT REFRIGERANT PIPING UP ALONG EXTERIOR TO/FROM ASSOCIATED INDOOR UNIT AHU-1 ON FLOOR ABOVE.
- UNDERCUT DOOR 1/2".
- 6"x6" EA DUCT UP TO IEF-2. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
- 12"x10" EA DUCT UP TO IEF-3. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
- TRANSFER DUCT SHALL PENETRATE WALL ABOVE TRAINING ROOM CEILING.
- PROVIDE CEILING ACCESS DOOR FOR EQUIPMENT MAINTENANCE.
- 8"x8" EA DUCT DN.
- 8"x8" EA DUCT UP. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
- RETURN AIR DUCT SMOKE DETECTOR. SEE ELECTRICAL DRAWINGS.

2

3

4

5

6

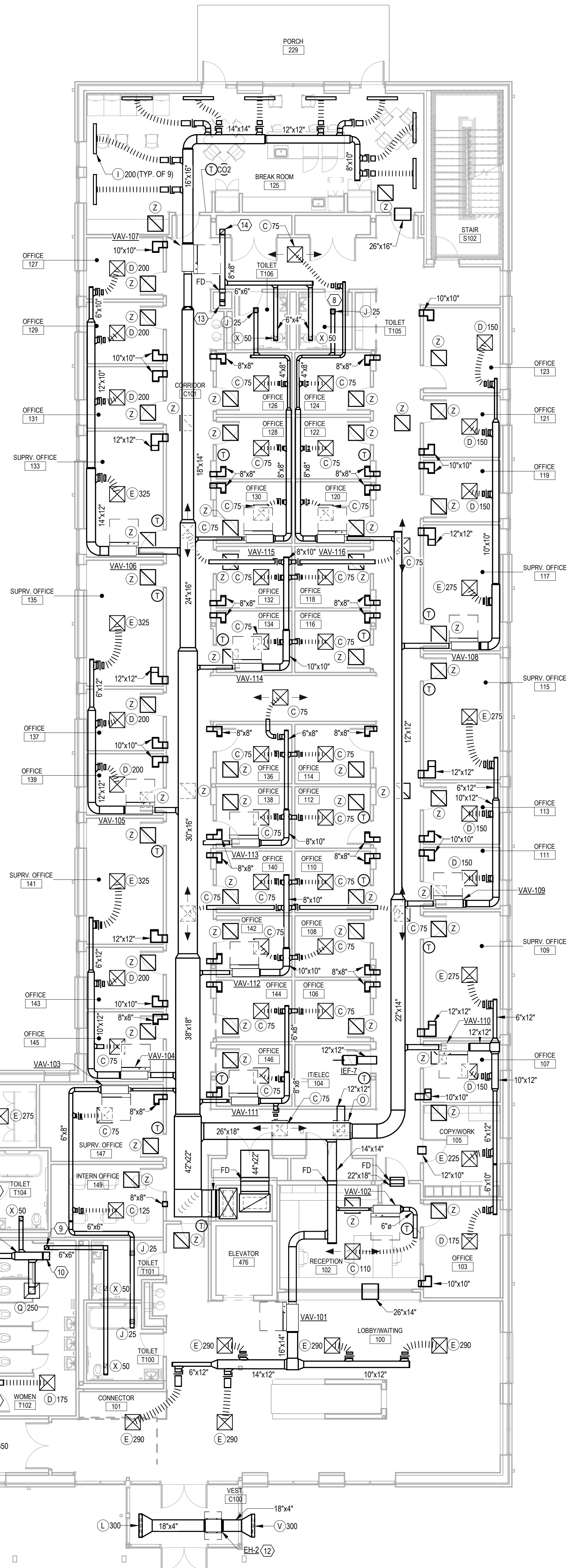
8

10

11

12

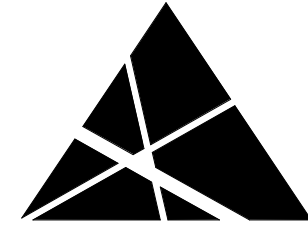
13



MAIN LEVEL FLOOR PLAN - MECHANICAL

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

0 4' 8' 16'
SCALE: 1/8" = 1'-0"



SPECTRUM DESIGN
architects | engineers

Plaza Suite 1
10 Church Avenue, SE
Roanoke, VA 24011

540.342.4001
spectrumpc.com

L P A

LAWRENCE PERRY & ASSOCIATES
Consulting Engineers

15 E Salem Avenue SE, Suite 101
Roanoke, Virginia 24011
Phone: (540) 342-1818
Fax: (540) 344-3410
Covers No.: 25114
© Lawrence Perry and Associates, Inc.

**DEPARTMENT OF SOCIAL
SERVICES BUILDING**

BEDFORD COUNTY

SPECTRUM DESIGN PROJECT NO.: 24112



PROJ. MGR.: **RCH** CHECKED BY: **RCH** DRAWN BY: **JCW**

SHEET ISSUE DATE:
06.12.2026

PROJECT PHASE:
BID DOCUMENTS

SHEET REVISIONS:

PLAN NORTH
N
SITE NORTH
N

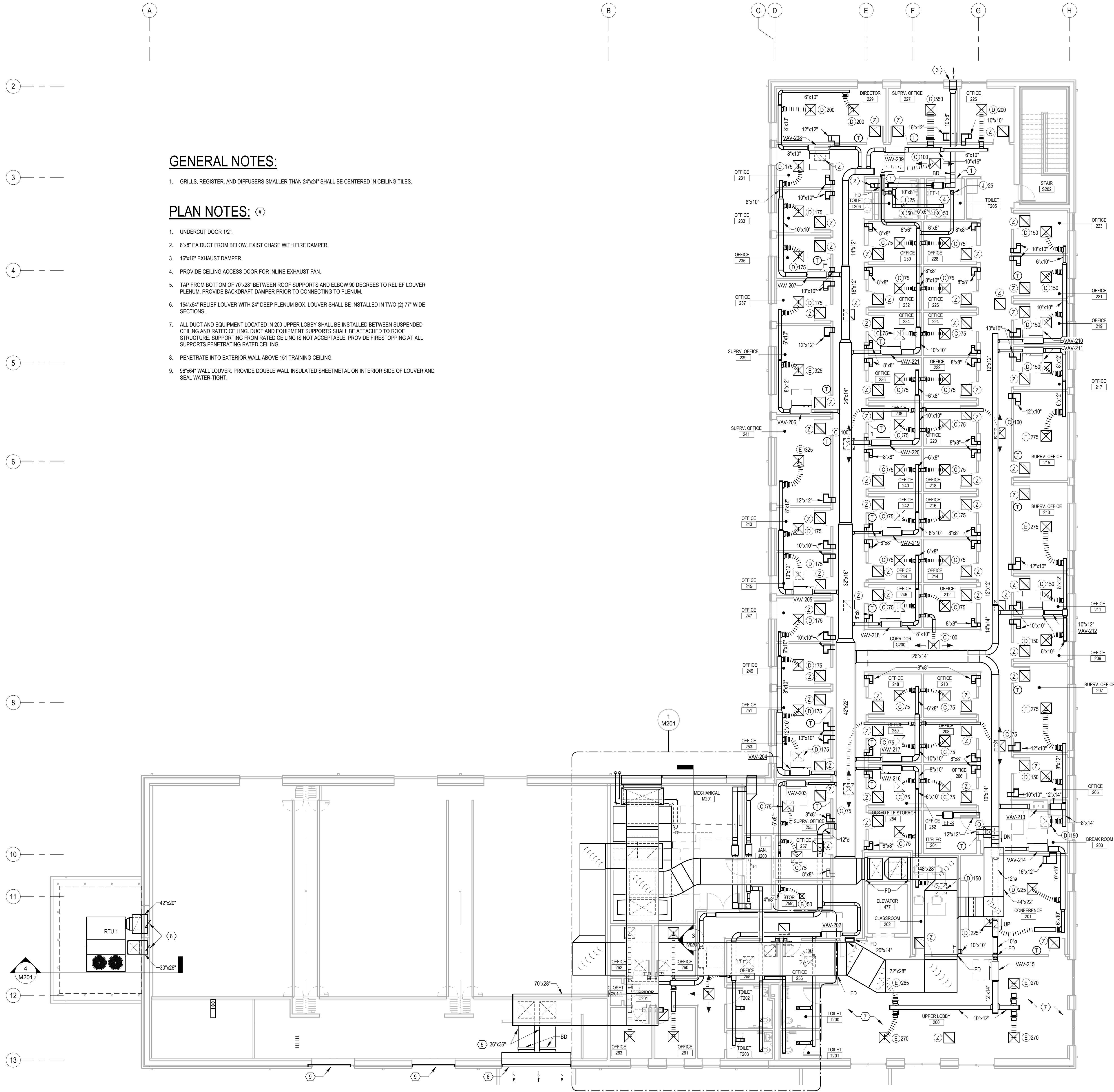
SHEET NAME:

**MAIN LEVEL FLOOR
PLAN - MECHANICAL**

SHEET NUMBER:

M102

ORIGINAL USE ARCHITECT (2020) 4/13/2024 12:48 PM
C:\Users\jerry.anderson\Documents\20114 - Bedford County - MCH - RPA - MCH\BID\103



GENERAL NOTES:

1. GRILLS, REGISTER, AND DIFFUSERS SMALLER THAN 24"x24" SHALL BE CENTERED IN CEILING TILES.

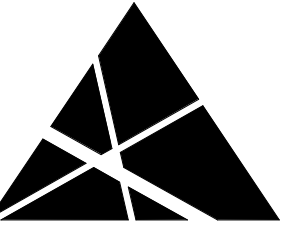
PLAN NOTES:

1. UNDERCUT DOOR 1/2".
2. 8"x8" EA DUCT FROM BELOW. EXIST CHASE WITH FIRE DAMPER.
3. 16"x16" EXHAUST DAMPER.
4. PROVIDE CEILING ACCESS DOOR FOR INLINE EXHAUST FAN.
5. TAP FROM BOTTOM OF 10"x28" BETWEEN ROOF SUPPORTS AND ELBOW 90 DEGREES TO RELIEF LOUVER PLENUM. PROVIDE BACKDRAFT DAMPER PRIOR TO CONNECTING TO PLENUM.
6. 154"x64" RELIEF LOUVER WITH 24" DEEP PLENUM BOX. LOUVER SHALL BE INSTALLED IN TWO (2) 77" WIDE SECTIONS.
7. ALL DUCT AND EQUIPMENT LOCATED IN 200 UPPER LOBBY SHALL BE INSTALLED BETWEEN SUSPENDED CEILING AND RATED CEILING. DUCT AND EQUIPMENT SUPPORTS SHALL BE ATTACHED TO ROOF STRUCTURE. SUPPORTING FROM RATED CEILING IS NOT ACCEPTABLE. PROVIDE FIRESTOPPING AT ALL SUPPORTS PENETRATING RATED CEILING.
8. PENETRATE INTO EXTERIOR WALL ABOVE 151 TRAINING CEILING.
9. 96"x64" WALL LOUVER. PROVIDE DOUBLE WALL INSULATED SHEETMETAL ON INTERIOR SIDE OF LOUVER AND SEAL WATER-TIGHT.

UPPER LEVEL FLOOR PLAN - MECHANICAL

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

0 4 8 16
SCALE: 1/8" = 1'-0"



SPECTRUM DESIGN
architects | engineers

Plaza Suite 1
10 Church Avenue, SE
Roanoke, VA 24011

540.342.4001
spectrumpc.com



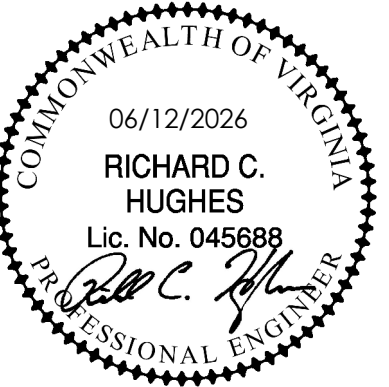
LAWRENCE PERRY & ASSOCIATES
Consulting Engineers

15 E Salem Avenue SE, Suite 101
Roanoke, Virginia 24011
Phone: (540) 342-1816
Fax: (540) 344-3410
Covers No.: 25114
© Lawrence Perry and Associates, Inc.

DEPARTMENT OF SOCIAL SERVICES BUILDING

BEDFORD COUNTY

SPECTRUM DESIGN PROJECT NO.: 24112



PROJ. MGR.: CHECKED BY: DRAWN BY:
RCH RCH JCW

SHEET ISSUE DATE:

06.12.2026

PROJECT PHASE:

BID DOCUMENTS

SHEET REVISIONS:

PLAN NORTH
N
SITE NORTH
N

SHEET NAME:

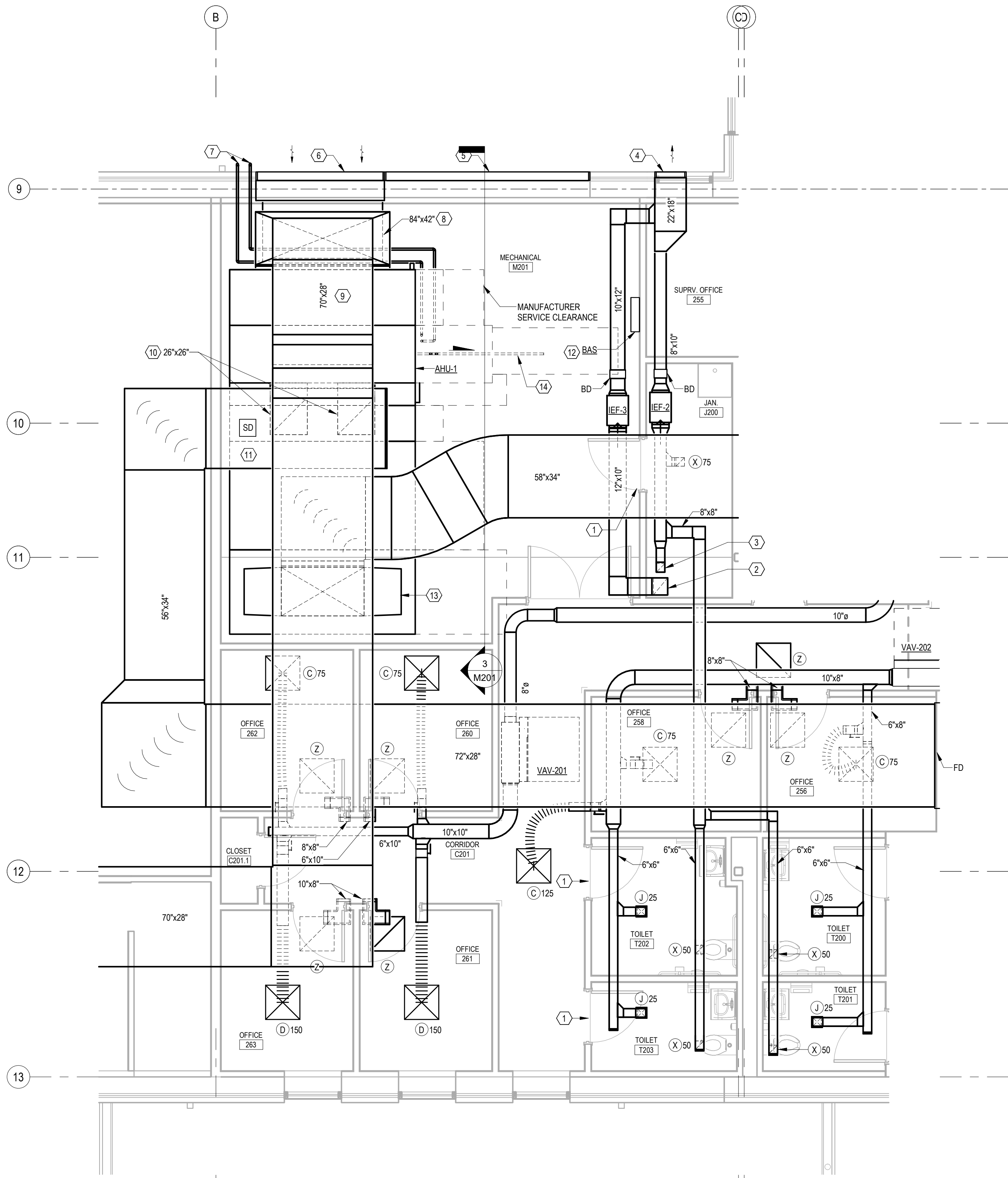
**UPPER LEVEL FLOOR
PLAN - MECHANICAL**

SHEET NUMBER:

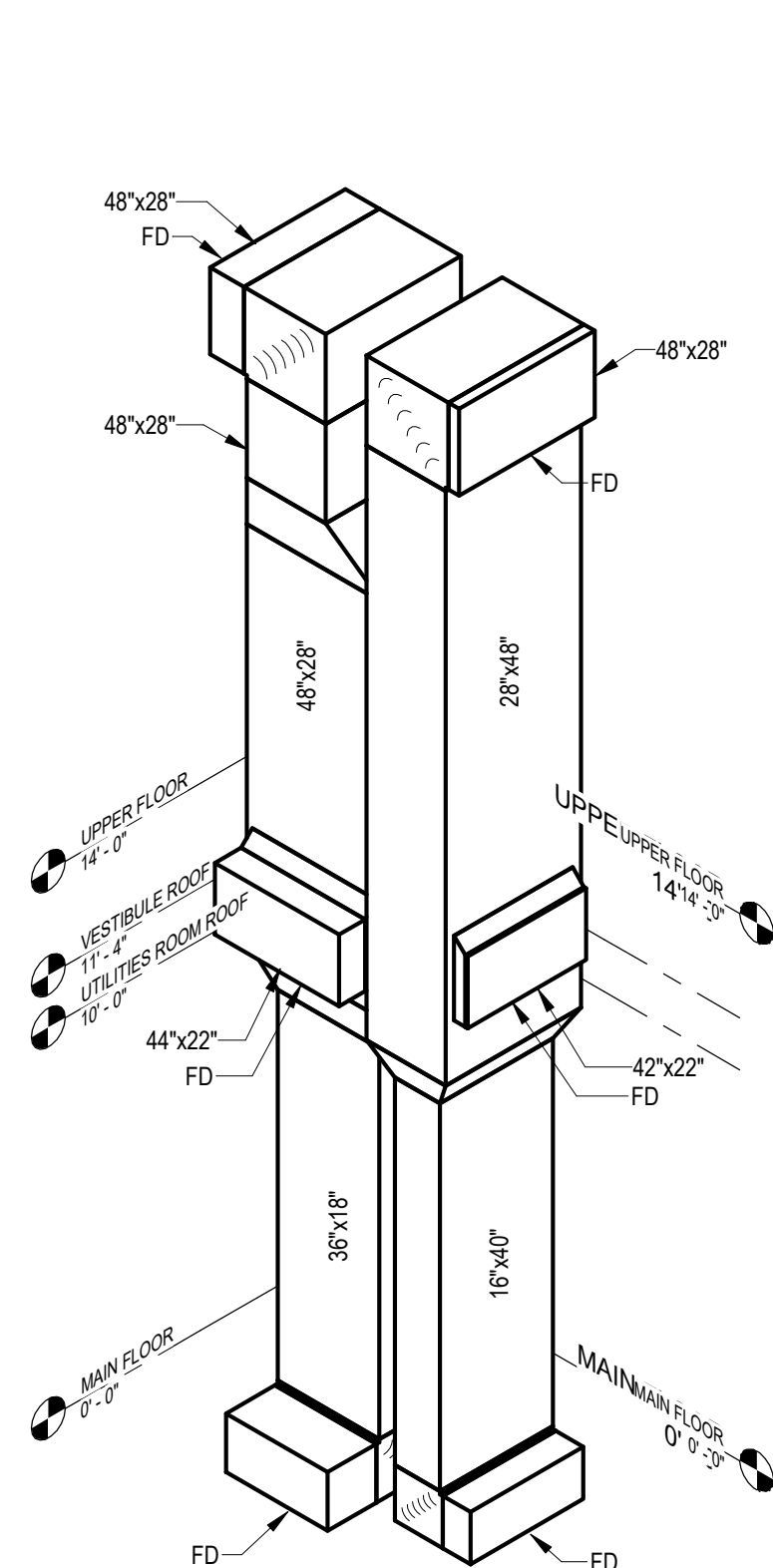
M103

ORIGINAL SET ARCH (1) (2) (3) 4/13/2024 1:42:29 PM
C:\Users\jerry\OneDrive - Lawrence Perry and Associates\Documents\20114 - Bedford County - MCH - RPA - M201\01.dwg

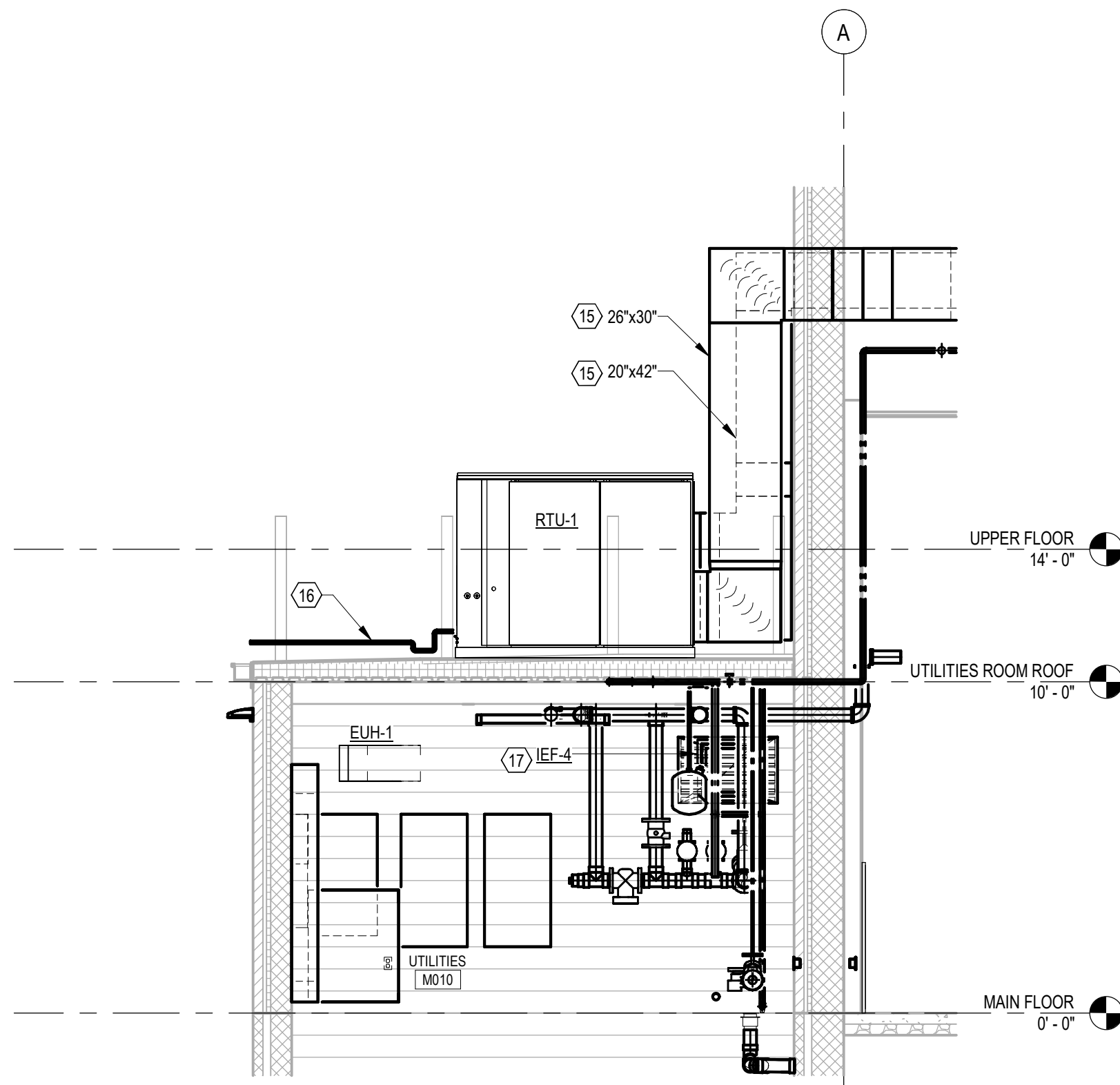
- PLAN NOTES:** (E)
1. UNDERCUT DOOR 1/2".
 2. 12"x10" EA DUCT FROM BELOW. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
 3. 6"x6" EA DUCT FROM BELOW. PROVIDE FIRE DAMPER AT SLAB PENETRATION.
 4. 22"x18" EXHAUST LOUVER. LOCATE MINIMUM 4" ABOVE WINDOW.
 5. 144"x120" REMOVABLE WALL LOUVER. LOUVER TYPE SHALL MATCH OTHER MECHANICAL LOUVERS. LOUVER SHALL BE INSTALLED IN TWO (2) 72" WIDE SECTIONS. PROVIDE DOUBLE WALL INSULATED SHEETMETAL ON INTERIOR SIDE OF LOUVER AND SEAL WATER-TIGHT.
 6. 90"x120" INTAKE LOUVER. PROVIDE 12" DEEP PLENUM BOX FOR CONNECTION TO AHU-1 OA DUCT.
 7. DUAL-CIRCUIT REFRIGERANT PIPING UP TO/FROM CU-1 LOCATED AT GRADE INTO MECH ROOM TO AHU-1 COOLING COIL.
 8. EXTEND DUCT FROM AHU INLET DIRECTLY TO LOUVER PLENUM BOX. DUCT SIZE SHALL MATCH AHU-1 OA INLET.
 9. ROUTE RELIEF DUCT INTO ATTIC SPACE ABOVE AHU-1.
 10. TAP BOTTOM OF RA DUCT WITH TWO (2) 26"x26" DUCTS AND ELBOW INTO AHU-1 RA CONNECTIONS.
 11. AHU-1 RETURN AIR DUCT-MOUNTED SMOKE DETECTOR. SEE ELECTRICAL DRAWINGS.
 12. MAIN BAS CONTROLLER. MOUNT BOTTOM OF PANEL 4'-0" AFF.
 13. TRANSITION FROM AHU-1 SA OUTLET TO DUCT SIZE INDICATED ON DRAWINGS.
 14. PIPE CONDENSATE TO FLOOR DRAIN. PIPE DIAMETER SHALL MATCH AHU-1 DRAIN CONNECTION DIAMETER.
 15. TRANSITION FROM RTU DUCT CONNECTION TO DIMENSIONS INDICATED ON DRAWINGS. KEEP DUCT TIGHT TO EXTERIOR WALL. PROVIDE INSULATION AND JACKET PER 230700 INSULATION SPECIFICATIONS.
 16. PIPE CONDENSATE AND SPILL TO GUTTER. PIPE DIAMETER SHALL MATCH RTU-1 DRAIN CONNECTION DIAMETER.
 17. COORDINATE FAN LOCATION WITH PLUMBING TO AVOID PIPES.



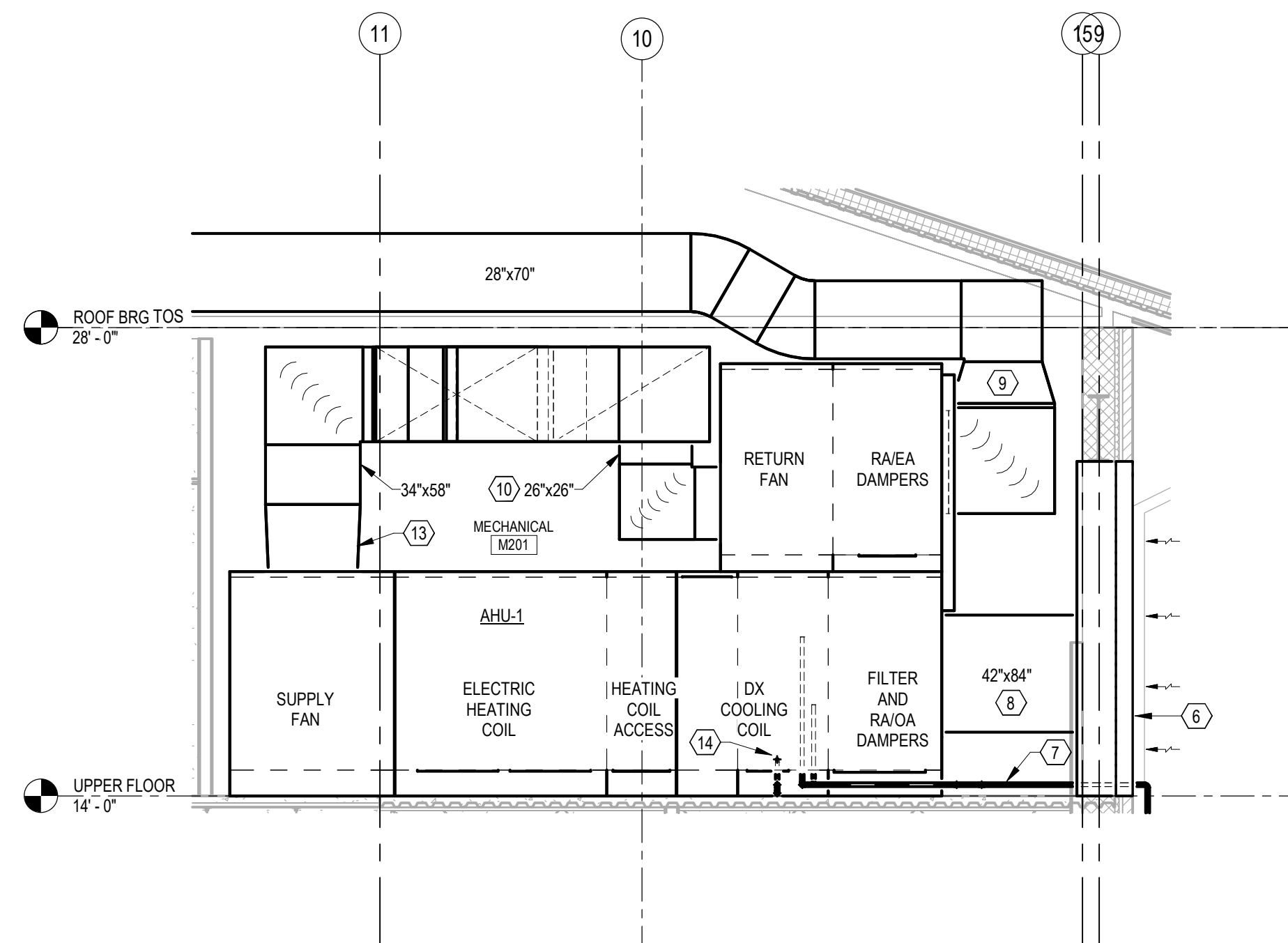
1
M201/M200
ENLARGED PLAN - MECHANICAL ROOM
SCALE: 1/4" = 1'-0"



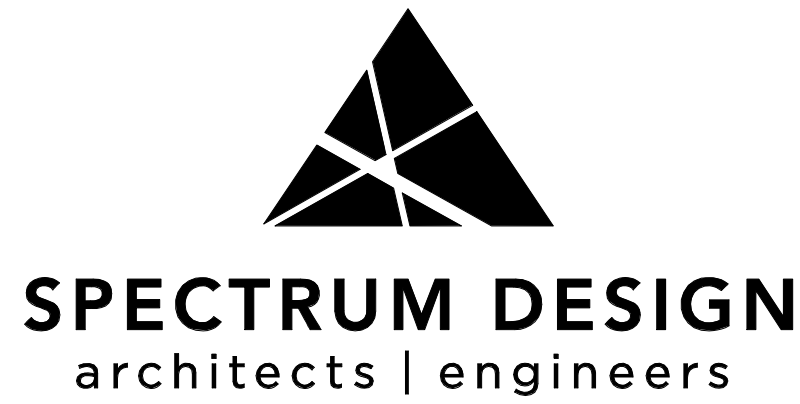
AHU-1 MECHANICAL RISER
SCALE:



4
M101/M200
M101 UTILITIES SECTION VIEW
SCALE: 1/4" = 1'-0"



3
M101/M200
M201 MECHANICAL SECTION VIEW
SCALE: 1/4" = 1'-0"



Plaza Suite 1
10 Church Avenue, SE
Roanoke, VA 24011

540.342.4001
spectrumpc.com



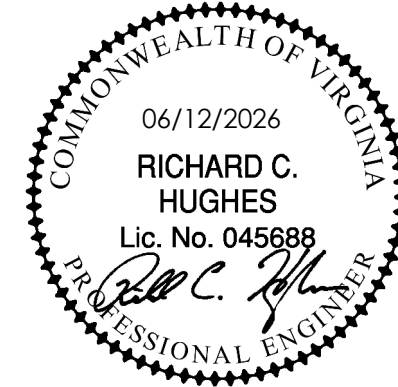
LAWRENCE PERRY & ASSOCIATES
Consulting Engineers

15 E Salem Avenue SE, Suite 101
Roanoke, Virginia 24011
Ph: (540) 342-1818
Fax: (540) 344-3410
Comm. No.: 25114
© Lawrence Perry and Associates, Inc.

DEPARTMENT OF SOCIAL
SERVICES BUILDING

BEDFORD COUNTY

SPECTRUM DESIGN PROJECT NO.: 24112



PROJ. MGR.: CHECKED BY: DRAWN BY:
RCH JCW RMP

SHEET ISSUE DATE:
06.12.2026

PROJECT PHASE:
BID DOCUMENTS

SHEET REVISIONS:



SHEET NAME:
HVAC ENLARGED
PLANS AND SECTIONS
VIEWS

SHEET NUMBER:

M201