	VIEW KEY		VENTILATION SYMB
	NAME LEVEL NAME 10' - 0" HEIGHT ABOVE PROJECT 0' - 0" INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL	SYMBOL:	NOT ALL SYMBOLS MAY APP DESCRIPTION:
Α	INDICATES DIRECTION OF TRUE NORTH		DIRECTION OF AIR FLOW
	PLAN OR DETAIL NUMBER PLAN OR DETAIL NAME		FLEXIBLE DUCT
			MANUAL VOLUME DAMPER
	1/8" = 1'-0" PLAN OR DETAIL SCALE	→ R →	RISE IN DIRECTION OF AIR FLOW
	ν _{ORT} Υ		DROP IN DIRECTION OF AIR FLOW
	SIM INDICATES SIMILAR DETAIL REFERENCED		DUCT CAP DUCT DOWN
	DETAIL REFERRED TO BY SECTION CUT		DUCT UP
	M101 - SHEET DETAIL IS LOCATED ON - T101		SUPPLY/OUTSIDE AIR DUCT SECTION
	LINE TYPE AND TAG KEY: NEW WORK BY THIS CONTRACTOR (WIDE LINE)		RETURN AIR DUCT SECTION
	NEW EXISTING TO BE REMOVED (SHORT DASHED PATTERN)		
В			EXHAUST/RELIEF AIR DUCT SECTION
	EXISTING EXISTING EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN) EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)		4-WAY DIFFUSER WITH BLANKOFF IN ONE DI
	HALFTONING DOES NOT MODIFY SCOPE.	<u>SD-1</u> 6/115	AIR TERMINAL PROPERTIES <u>SYMBOL</u> NECK SIZE/CFM
	'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING		TERMINAL AIR BOX (REFER TO SCHEDULE)
	TAG-1 UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST		
	INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL		FAN POWERED TERMINAL AIR BOX w/REHEA (REFER TO SCHEDULE)
			HUMIDIFIER
			OPPOSED BLADE DAMPER (REFER TO SCHE
	CONTRACTOR ABBREVIATION KEY	<u> //////</u>	PARALLEL BLADE DAMPER (REFER TO SCHE
	ABBR: DESCRIPTION:	(Ō)	DIFFERENTIAL PRESSURE SENSOR CARBON MONOXIDE SENSOR
0	E.C.ELECTRICAL CONTRACTORF.P.C.FIRE PROTECTION CONTRACTOR	(C2)	CARBON DIOXIDE SENSOR
С	G.C. GENERAL CONTRACTOR H.C. HEATING CONTRACTOR	(Ē)	HUMIDISTAT SENSOR HUMIDISTAT/SENSOR (DUCT MOUNTED)
	M.C. MECHANICAL CONTRACTOR	(Ō)	
	P.C. PLUMBING CONTRACTOR S.C. SECURITY CONTRACTOR	(ē) P	PRESSURE SENSOR/MONITOR PRESSURE SENSOR (DUCT MOUNTED)
	T.C. TECHNOLOGY CONTRACTOR	(T) [T]	THERMOSTAT/SENSOR TEMPERATURE SENSOR (DUCT MOUNTED)
	T.C.C. TEMPERATURE CONTROLS CONTRACTOR V.C. VENTILATION CONTRACTOR	\bigcirc	THERMOSTAT/SENSOR WITH HEAVY DUTY E
		► XX-Y	AIRFLOW MEASUREMENT SYMBOL XX - AHU SYMBOL
			Y - SEQUENTIAL NUMBER
		[
		ABBR:	VENTILATION ABBREVI
		ADBR.	ACCESS DOOR
D		AFF CFSD	ABOVE FINISHED FLOOR CONTROL/FIRE/SMOKE DAMPER
		DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
		DPS EA	DIFFERENTIAL PRESSURE SWITCH EXHAUST/RELIEF AIR
		ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
		EFD EFSD	EXISTING FIRE DAMPER EXISTING FIRE SMOKE DAMPER
		ESD FD	EXISTING SMOKE DAMPER FIRE DAMPER
		FOB	FLAT ON BOTTOM
		FOT FSD	FLAT ON TOP FIRE/SMOKE DAMPER
		MA	MIXED AIR
		N.C. NIC	NORMALLY CLOSED NOT IN CONTRACT
Е		N.O. NTS	NORMALLY OPEN NOT TO SCALE
_		OA	OUTSIDE AIR
		RA SA	RETURN AIR SUPPLY AIR
		SCCR	SHORT CIRCUIT CURRENT RATING
		SD TAB	SMOKE DAMPER TERMINAL AIR BOX
		TD TYP	TRANSFER DUCT TYPICAL
		UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
		UNO	UNLESS NOTED OTHERWISE
F			
			CONSULTANT
			Engineering:
			IMEG Corp. 15 Sunnen Drive, Suite 104
			St. Louis, MO 63143 (314) 645-1132
	Revisions:	Date:	11

2

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N	SYMBOL	LIST

IBOLS MAY APPLY.

KOFF IN ONE DIRECTION

T COIL (REFER TO SCHEDULE)

BOX w/REHEAT COIL

REFER TO SCHEDULE)

EFER TO SCHEDULE) NSOR

CT MOUNTED) HEAVY DUTY ENCLOSURE MBOL

BBREVIATION KEY

ARCHITECT/ENGINEER OF RECORD Office of <u>A/E:</u> Construct Calvin L. Hinz Architects P.C. and Facili 3705 N. 200th Street Manager Elkhorn, NE 68022 (402) 291-6941 | U.S. De VA 0.8. Dep of Vetera Affairs 4 5

MECHANICAL RENOVATION NOTES: THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. 4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK. 5. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK. 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING. 7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL

- EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. 8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT
- REMAIN ACTIVE. 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW
- SYSTEMS ARE INSTALLED. 10. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

TAB PRE-DEMOLITION NOTES:

- 1. BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR ON EXISTING AIR HANDLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED. 2. PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE PRE DEMOLITION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE DRAWINGS. READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF FLOOR PLANS DO NOT HAVE UNIQUE ROOM
- NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLAN WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO READINGS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. DRAWINGS THAT ARE HAND-MARKED WITH RED INK ARE ACCEPTABLE, PROVIDED THEY ARE LEGIBLE. 3. IN THE EVENT A DUCT TRAVERSE LOCATION AS MARKED ON THIS PLAN IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN
- ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR READINGS AS REQUIRED TO DETERMINE THE AIRFLOW READING WHERE THE DUCT TRAVERSE SYMBOL IS SHOWN. IN THE EVENT TRAVERSES ARE TAKEN AT ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN. 4. TAKE A DUCT STATIC PRESSURE READING AT EACH LOCATION WHERE A DUCT TRAVERSE
- READING IS TAKEN AND INCLUDE IN THE FINAL PRE-DEMOLITION TAB REPORT. 5. TAB CONTRACTOR SHALL COMPILE AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE
- SPECIFICATIONS. 6. TAB CONTRACTOR SHALL PROVIDE DUCT TRAVERSE READINGS AT LOCATIONS DESIGNATED ON THE DRAWINGS BY THE "AIRFLOW MEASUREMENT SYMBOL". THOSE MEASUREMENTS SHALL BE INCLUDED IN THE POST-CONSTRUCTION REPORT AND SHALL BE DESIGNATED WITH THE IDENTIFIER AS MARKED ON THE CONSTRUCTION DRAWINGS. GRILLE AND DIFFUSER READINGS SHALL BE DESIGNATED WITH THE ROOM NAME AND NUMBER AS MARKED ON THE DRAWINGS. IF THE DRAWINGS DO NOT HAVE UNIQUE ROOM NAMES AND NUMBERS, TAB CONTRACTOR SHALL INCLUDE FLOOR PLANS WITH UNIQUE NUMBER DESIGNATIONS ASSIGNED TO TRAVERSES, GRILLES, AND DIFFUSERS THAT MATCH THOSE USED IN THE FINAL PRE-DEMOLITION REPORT. SIMILAR ROOM NAMES, NUMBERS, OR DESIGNATIONS SHALL BE USED TO SIMPLIFY THE CROSS- REFERENCING OF READINGS TAKEN BETWEEN PRE-DEMOLITION AND POST-CONSTRUCTION REPORTS.
- 7. BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

VENTILATION GE

- 1. UNLESS NOTED OTHERWISE, THE SIZE OF EAC (TAB) SHALL MATCH THE INLET SIZE UNLESS LENGTH, IN WHICH CASE THE BRANCH DUCT
- 0.07"W.C. PER 100' OF DUCTWORK. 2. UNLESS NOTED OTHERWISE, THE SIZE OF EAC MATCH THE INLET SIZE.
- 3. ALIGN TEMPERATURE SENSORS WITH LIGHT EACH OTHER. 4. PROVIDE ACCESS DOORS AT ALL DUCT MOUN
- 5. EXISTING AIR INLET AND OUTLET CFM SHOWN DRAWINGS, AND ARE FOR REFERENCE ONLY. VALUES, AND NOT EXISTING CFM SHOWN ON I
- 6. CONTRACTOR MAY REUSE PORTIONS OF EXIS CLASSES ARE CORRECT, DUCT IS THOROUGHL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, A AS SPECIFIED FOR NEW DUCTWORK.

MECHANICAL GE

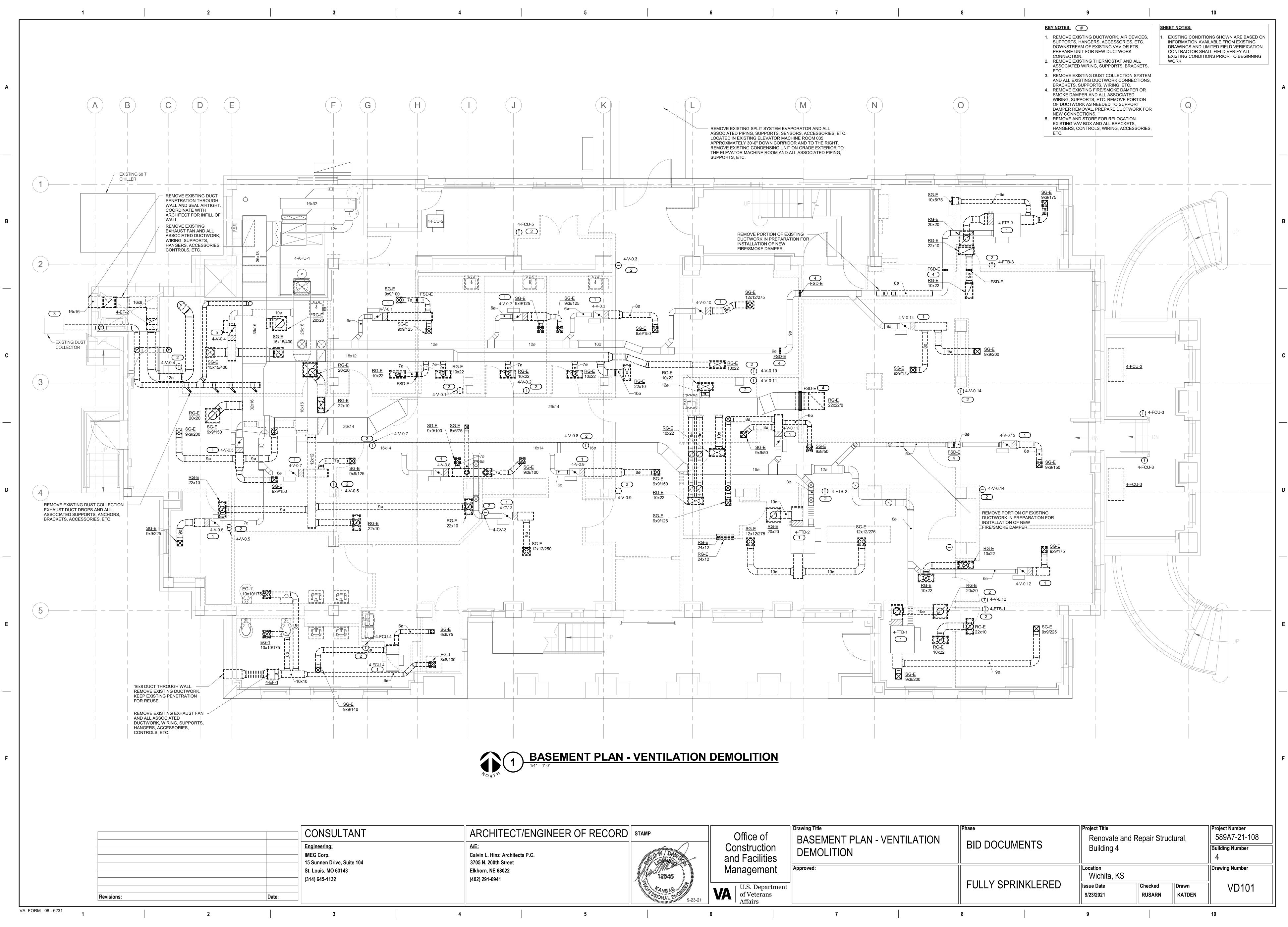
- THESE NOTES APPLY TO ALL MECHANICAL SHEET TO, FIRE PROTECTION, PLUMBING, VENTILATION,
- 1. DRAWINGS SHOWING LOCATIONS OF EQUIPME DIAGRAMMATIC AND MAY NOT ALWAYS REFLE DRAWINGS SHOW THE GENERAL ARRANGEME AND MAY NOT INCLUDE ALL OFFSETS AND FITT INSTALLATION. THE DRAWINGS SHALL BE FOL
- CONSTRUCTION AND THE WORK OF OTHERS 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMEN ARCHITECTURAL, STRUCTURAL, SUBMITTALS, PHYSICALLY AT SITE. REVIEW ALL DRAWINGS,
- 3. COORDINATE ALL WORK WITH ALL OTHER TRA CLEARANCES REQUIRED FOR OPERATION, MA VERIFY NON-INTERFERENCE WITH OTHER WO VERIFICATION OF NECESSARY CLEARANCES OR CONFLICTS TO THE ATTENTION OF THE AR WITH FABRICATION OR EQUIPMENT ORDERS.
- REASONABLE ACCESS FOR SERVICE, MAINTEI 4. REVIEW SPACE REQUIREMENTS OF EQUIPMEN REASONABLE ACCOMMODATIONS IN LAYOUT
- ACCESS. 5. ANY CHANGES REQUIRED TO ELIMINATE CONF
- COORDINATE SHALL BE MADE BY THE CONTRA EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED FOR EQUIPMENT PROPOS
- DESIGN. 7. REFER TO ARCHITECTURAL REFLECTED CEIL AUDIO/VISUAL, AND OTHER MECHANICAL PLAN
- MOUNTED DEVICES, OTHER THAN SPRINKLERS 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAM FLOORS, CEILINGS, AND ROOFS. THE CONTRAC RESPONSIBLE FOR PATCHING TO MATCH ORIG FINISH
- 9. IN AREAS WITH DRYWALL CEILINGS COORDINA GC FOR ACCESS TO VALVES, DUCTWORK ACCE PANEL TYPE AND COLOR WITH ARCHITECT. NO PANELS PRIOR TO BIDDING. 10. SEAL ALL FLOOR, WALL, AND ROOF PENETRAT
- AND DUCTS PENETRATE. PENETRATIONS THR SEALED AIRTIGHT WITH WATERPROOFING MA FOR OUTDOOR USE. 11. CAULK ALL PIPE AND DUCT PENETRATIONS OF
- PARTITION, FLOOR, AND ROOF ASSEMBLIES TRANSMISSION FROM ONE ROOM TO ANOTHEI WITHIN ROOMS. 12. WHERE PIPES AND DUCTS ARE SHOWN TO PE
- OPENINGS WITH THE TOP EDGE RAISED ABOV RELEVANT SPEC SECTIONS. SEAL SLEEVE PER 13. EQUIPMENT SIZES AND SERVICE CLEARANCE MANUFACTURERS. CONSULT APPROVED SHO REQUIRED SERVICE CLEARANCES. COORDINAT PIPING. DUCTWORK. ETC.
- 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SE 15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT STARTERS, SWITCHES, AND DISCONNECTS.
- 16. PROVIDE CONCRETE EQUIPMENT PAD FOR AL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQ 17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DU
- NON-STRUCTURAL BUILDING ELEMENTS. ANCH CRACKED CONCRETE APPROVED IN ACCORDA

TAB POST-CONSTR

- 1. AFTER CONSTRUCTION ACTIVITIES ARE COMPI BALANCING CONTRACTOR SHALL REBALANCE REQUIRED TO ACHIEVE THE NEW AIRFLOW VAL DRAWINGS.
- 2. AREAS SERVED BY THIS EQUIPMENT WHICH W BALANCED TO THE AIRFLOW RATES MEASURE (REFER TO THE FINAL PRE- DEMOLITION REPO 3. IF DUCT TRAVERSE LOCATION AS MARKED ON
- MEASUREMENT, THE TAB CONTRACTOR SHALL LOCATION OR SHALL TAKE MULTIPLE DUCT TR REQUIRED TO DETERMINE THE FLOW RATE. IN ALTERNATE LOCATION(S), TAB CONTRACTOR LOCATIONS WHERE THE ACTUAL MEASUREME
- 4. A DUCT STATIC PRESSURE READING SHALL BE TRAVERSE READING IS TAKEN AND SHALL BE I TAB REPORT. 5. TAB CONTRACTOR SHALL COMPILE AND SUBMI
- CONSTRUCTION TAB REPORT AS REQUIRED BY 6. THE FINAL POST CONSTRUCTION REPORT SHA SPECIFICATIONS.

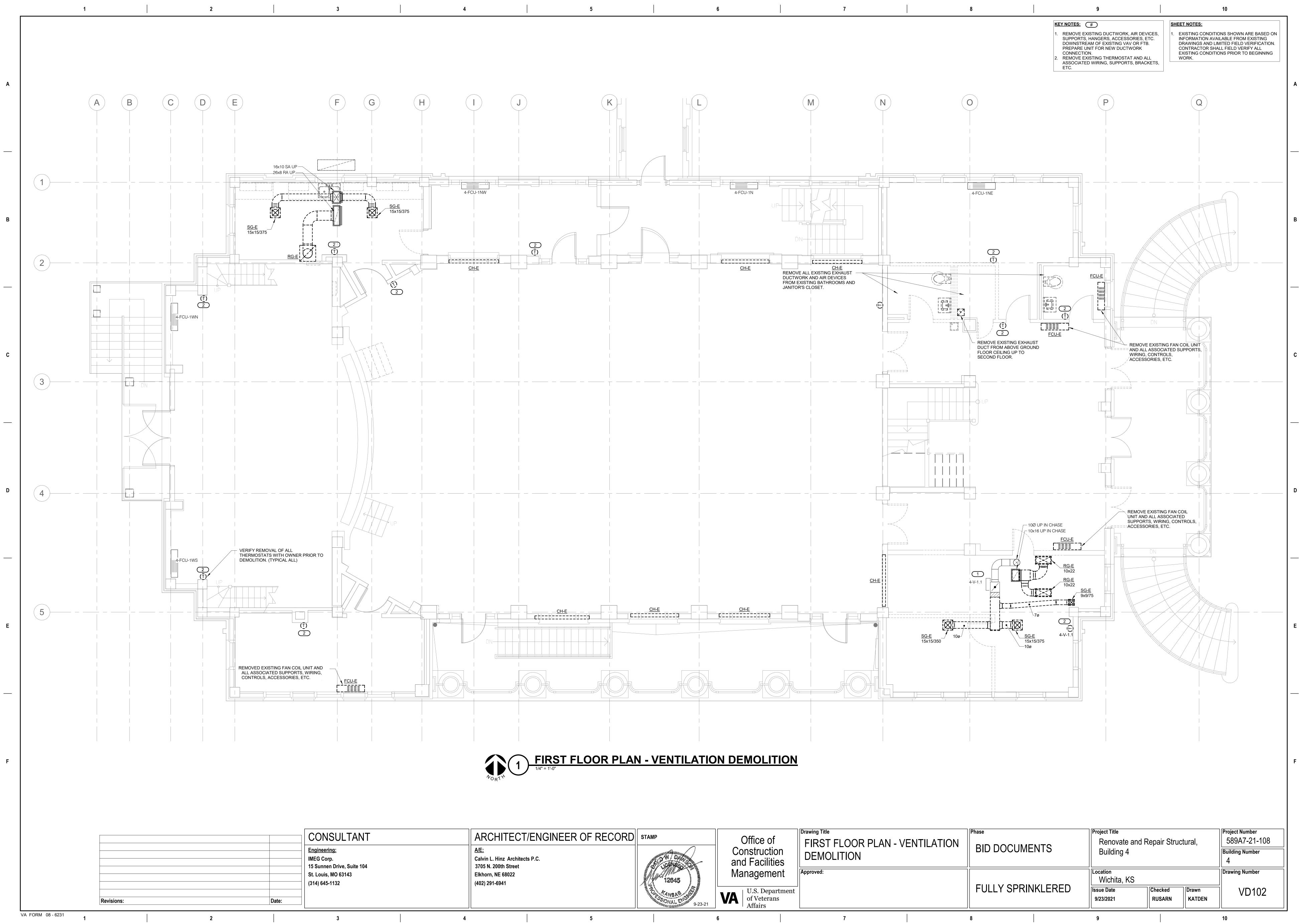
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NERAL NOTE	<u>S:</u>	
CH BRANCH DUCT TO A TE THE BRANCH IS GREATER SHALL BE SIZED AT A PRES CH BRANCH DUCT TO AN A	THAN 6FEET IN SSURE DROP OF	
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IENT, DUCTWORK, PIPING, ECT EXACT INSTALLATION ENT OF DUCTWORK, PIPIN TINGS REQUIRED FOR CO LLOWED AS CLOSELY AS A WILL PERMIT. NSIONS AND CLEARANCES , AND OTHER APPROPRIAT , INCLUDING THOSE OF OT ADES PRIOR TO INSTALLA AINTENANCE, CODE COMP DRK. DO NOT FABRICATE P	CONDITIONS. G, EQUIPMENT, ETC., MPLETE ACTUAL BUILDING S FROM TE DRAWINGS OR THER TRADES. TION TO PROVIDE LIANCE, AND TO	в
FOR ALL TRADES. BRING A RCHITECT/ENGINEER BEFC ALL VALVES MUST BE LOC NANCE, AND FUNCTION. NT SPECIFIED OR SUBSTIT AND POSITIONING TO PRC	NY INTERFERENCES DRE PROCEEDING CATED WITH TUTED AND MAKE	
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ATE LOCATIONS OF ACCES CESSORIES, DAMPERS, ET OTIFY THE GC OF THE REC TIONS AIRTIGHT WHERE C ROUGH EXTERIOR WALLS A	C. COORDINATE QUIRED ACCESS ONDUITS, PIPING,	с
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INCLUDED IN THE FINAL P MIT COPIES OF THE FINAL F BY SECTION 23 05 93. ALL INCLUDE ALL ITEMS RI	POST-	
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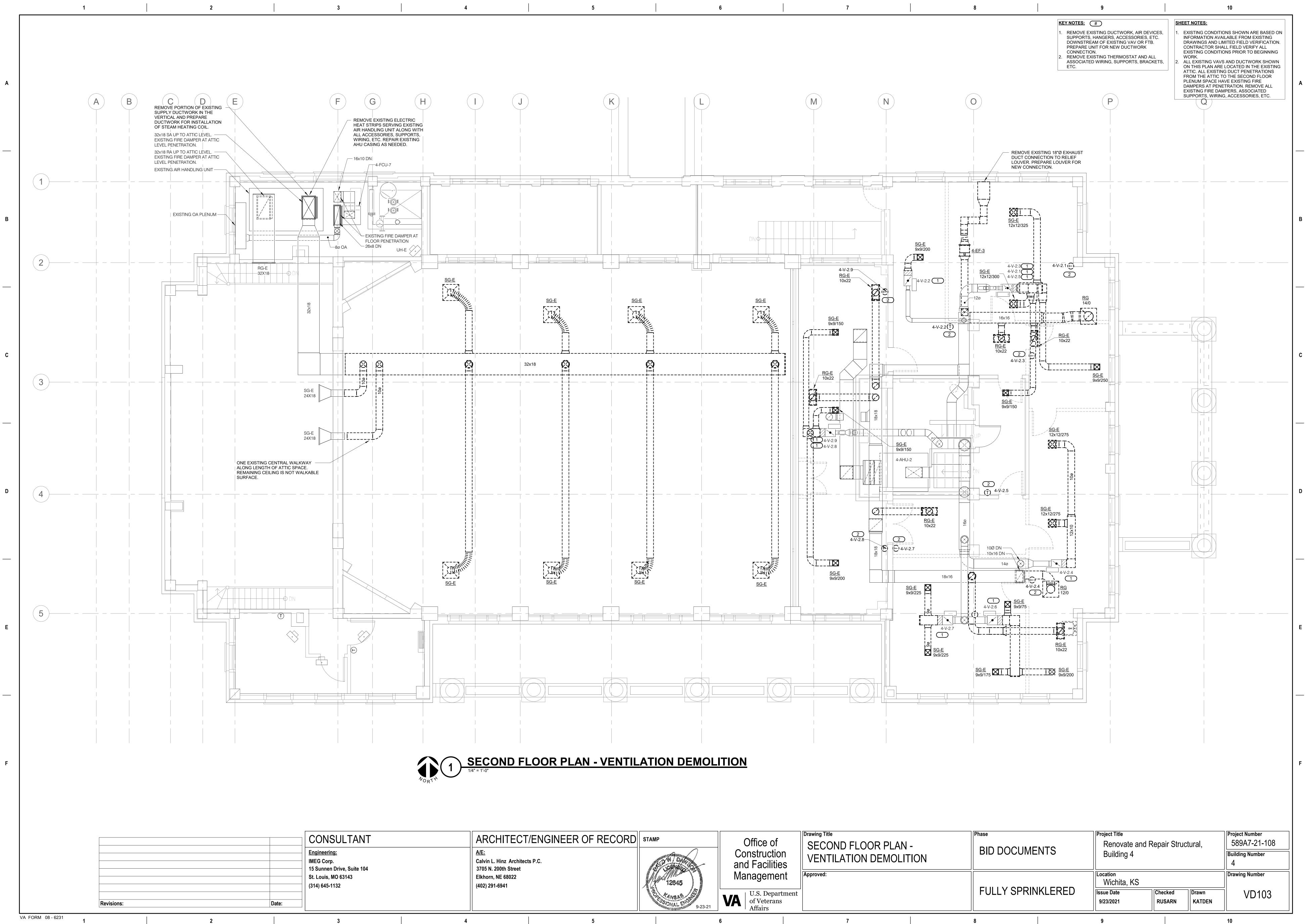
T 4	ARCHITECT/ENGINEER <u>A/E:</u> Calvin L. Hinz Architects P.C. 3705 N. 200th Street Elkhorn, NE 68022 (402) 291-6941	R OF RECORD	STAMP	Office Construe and Fac Manage
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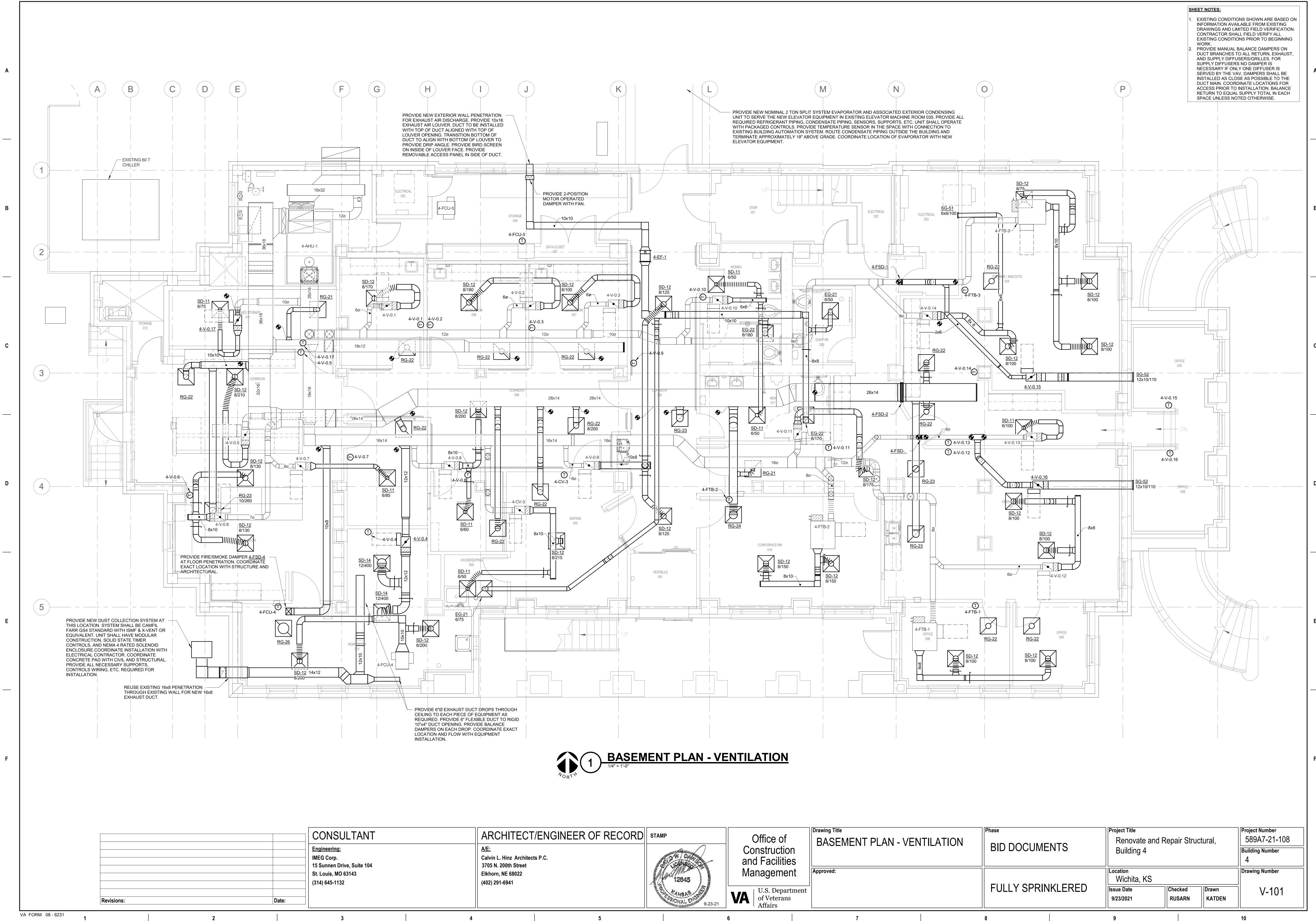
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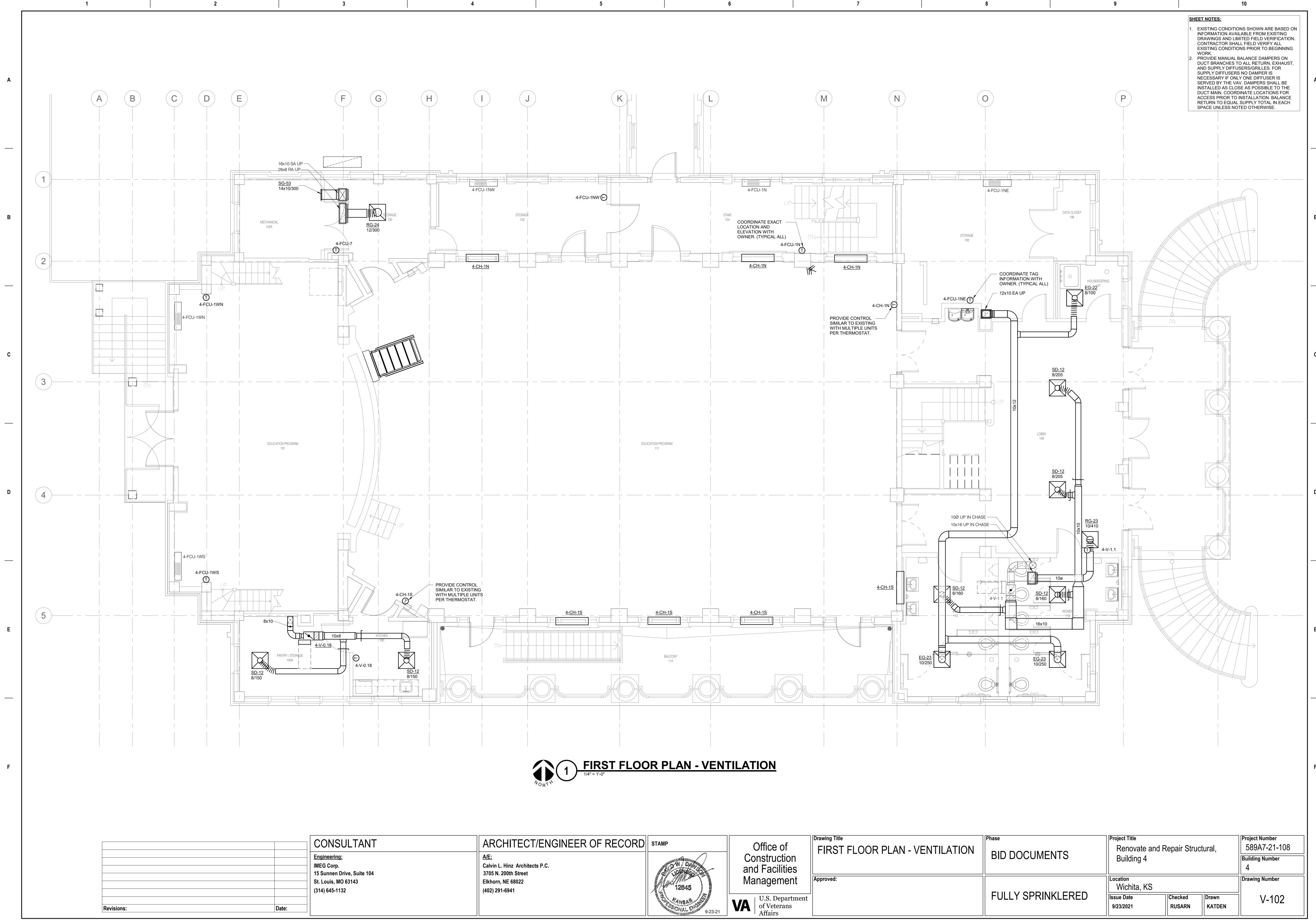
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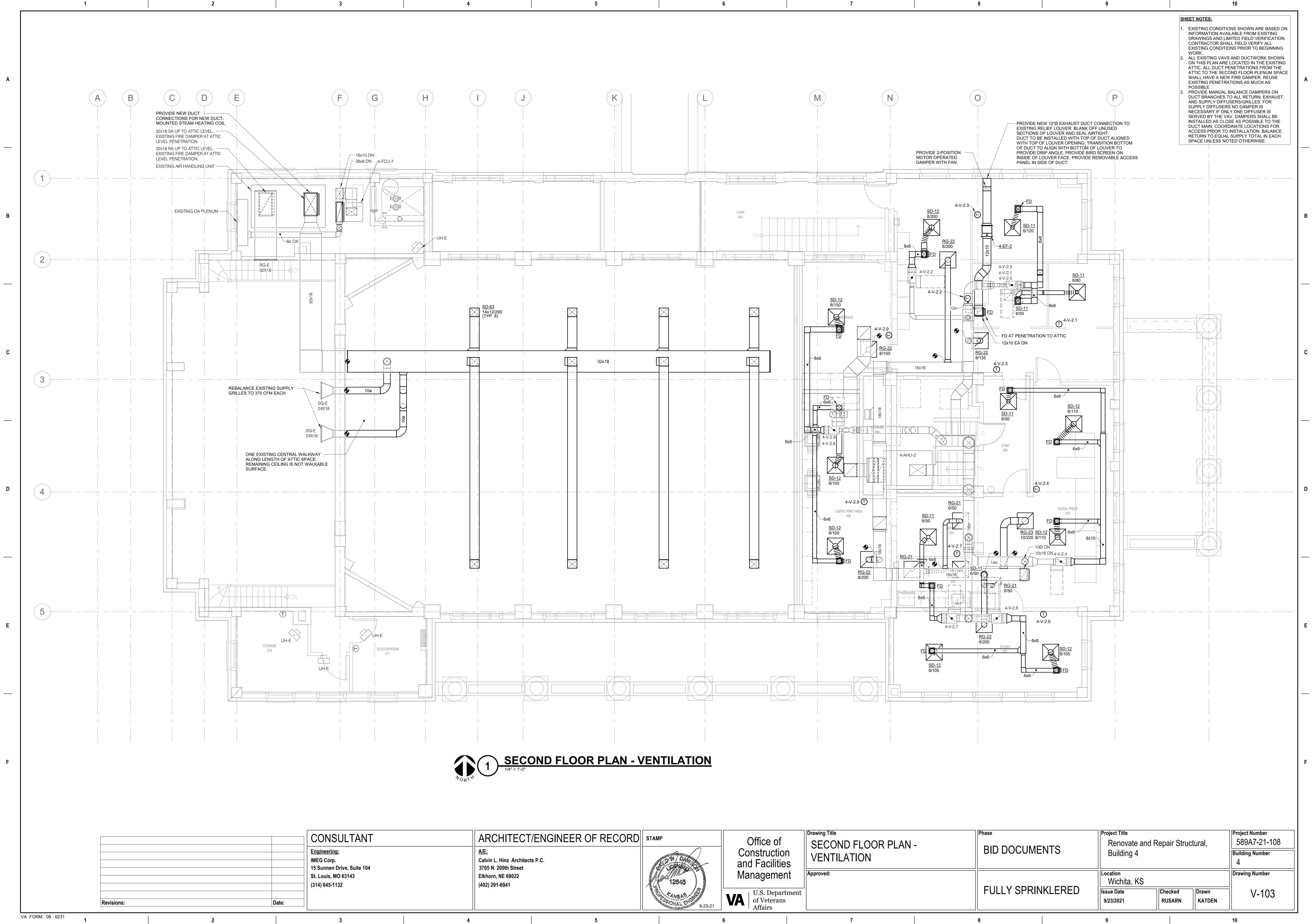
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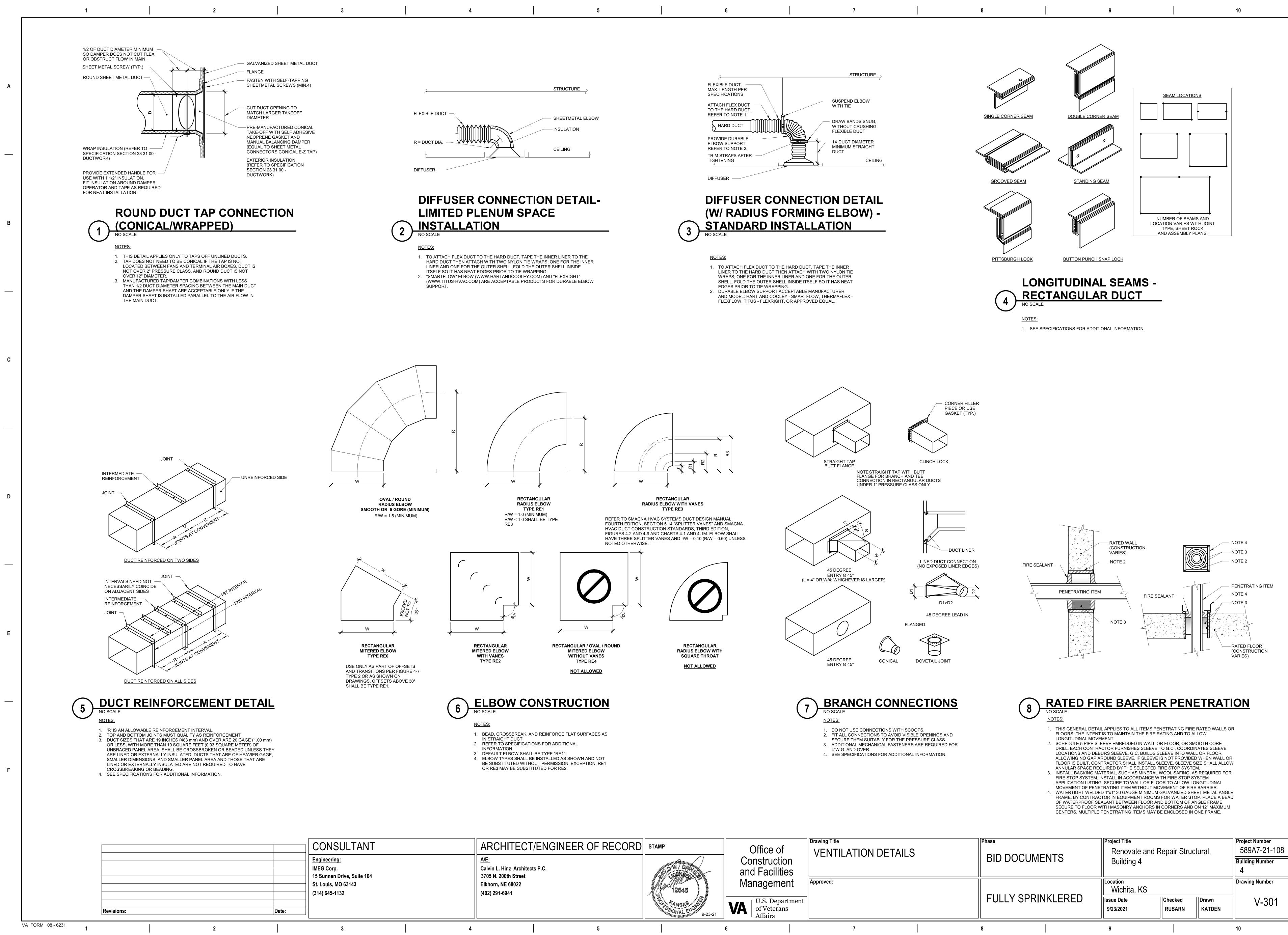
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<u>A/E:</u>
Calvin L. Hinz Architects P.C.
3705 N. 200th Street
Elkhorn, NE 68022
(402) 291-6941

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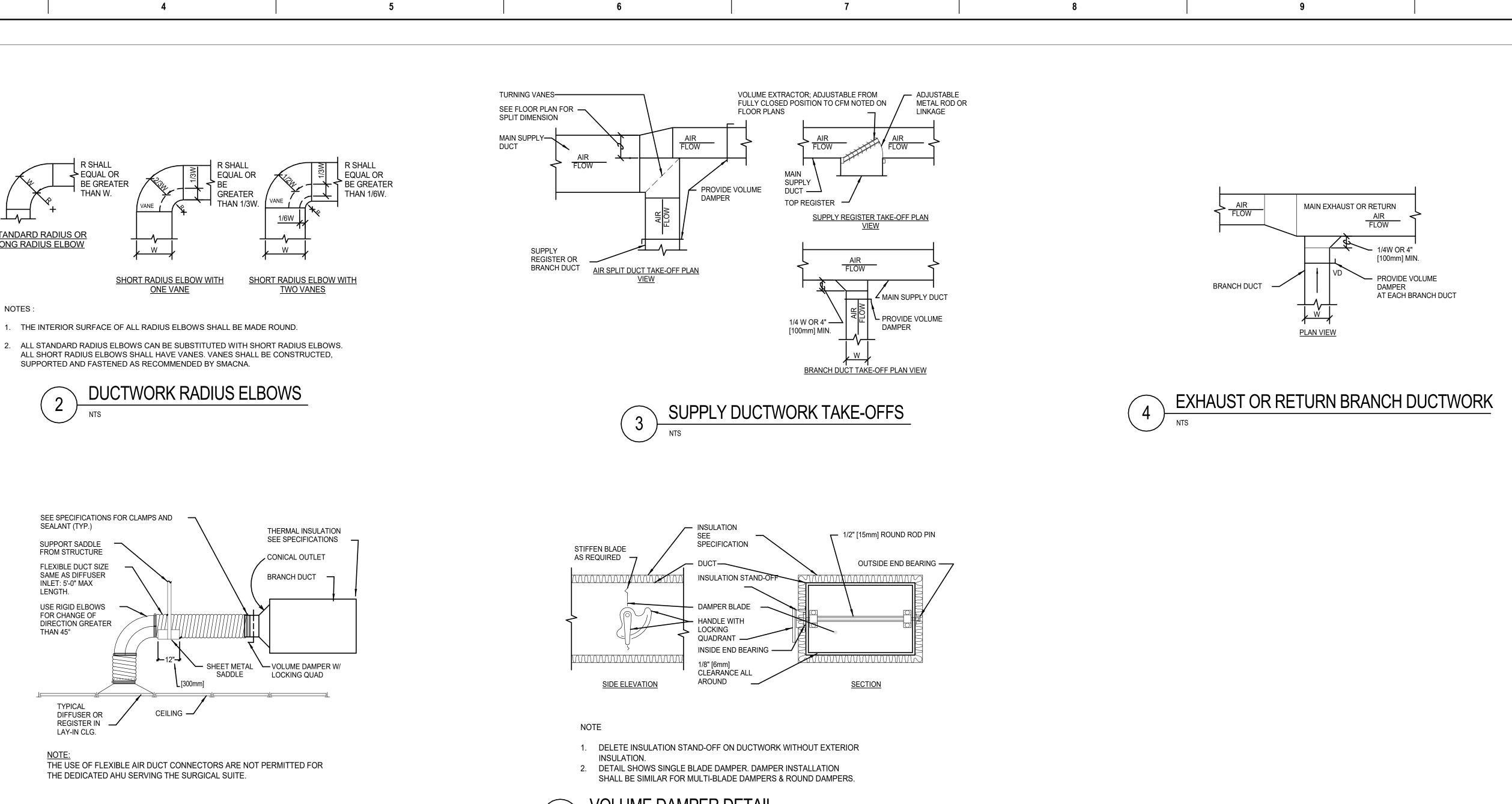
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		SEE SPECIFICATIONS FOR CLAMPS AND SEALANT (TYP.) SUPPORT SADDLE FROM STRUCTURE	INSULATION SEE SPECIFICATION $\ \ \ \ \ \ \ \ \ \ \ \ \ $
	LOAD RATED FASTENERS BAND OF SAME SIZE AS HANGER 50" [1250mm] Ø S0" [1250mm] Ø WNDER HANGER HANGER	FROM STRUCTURE FLEXIBLE DUCT SIZE SAME AS DIFFUSER INLET: 5'-0" MAX LENGTH. USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45° LI2" SHEET METAL VOLUME DAMPER W/ LOCKING QUAD	STIFFEN BLADE AS REQUIRED UUCT UNIVALABLE UN
	BAND NOTE: OVER 50" TABULATED DATA FROM SMACNA ALLOWS [1250mm] State	TYPICAL CEILING DIFFUSER OR CEILING REGISTER IN LAY-IN CLG. NOTE: THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.	 NOTE DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.
	5 ROUND DUCT HANGERS	6 FLEXIBLE AIR DUCT CONNECTOR	7 VOLUME DAMPER DETAIL NTS
	CONSU Engineering: IMEG Corp.	LTANT ARCHITECT/ENGINEER OF RECO <u>A/E:</u> Calvin L. Hinz Architects P.C.	Construction VENTILATION DETAILS BID
	Revisions: Date:	ve, Suite 104 3705 N. 200th Street 53143 Elkhorn, NE 68022	Approved: 9-23-21 and Facilities Management Management Approved: FUL
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ce of ruction acilities	Drawing Title VENTILATION DETAILS	BID DOCUMENTS	Project Title Renovate and Repair Stru Building 4	
gement 5. Department Veterans airs	Approved:	FULLY SPRINKLERED	Location Wichita, KS Issue Date 9/23/2021 RUSARN	
	7	8	9	

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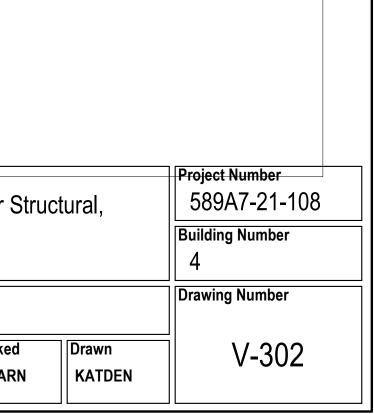
В

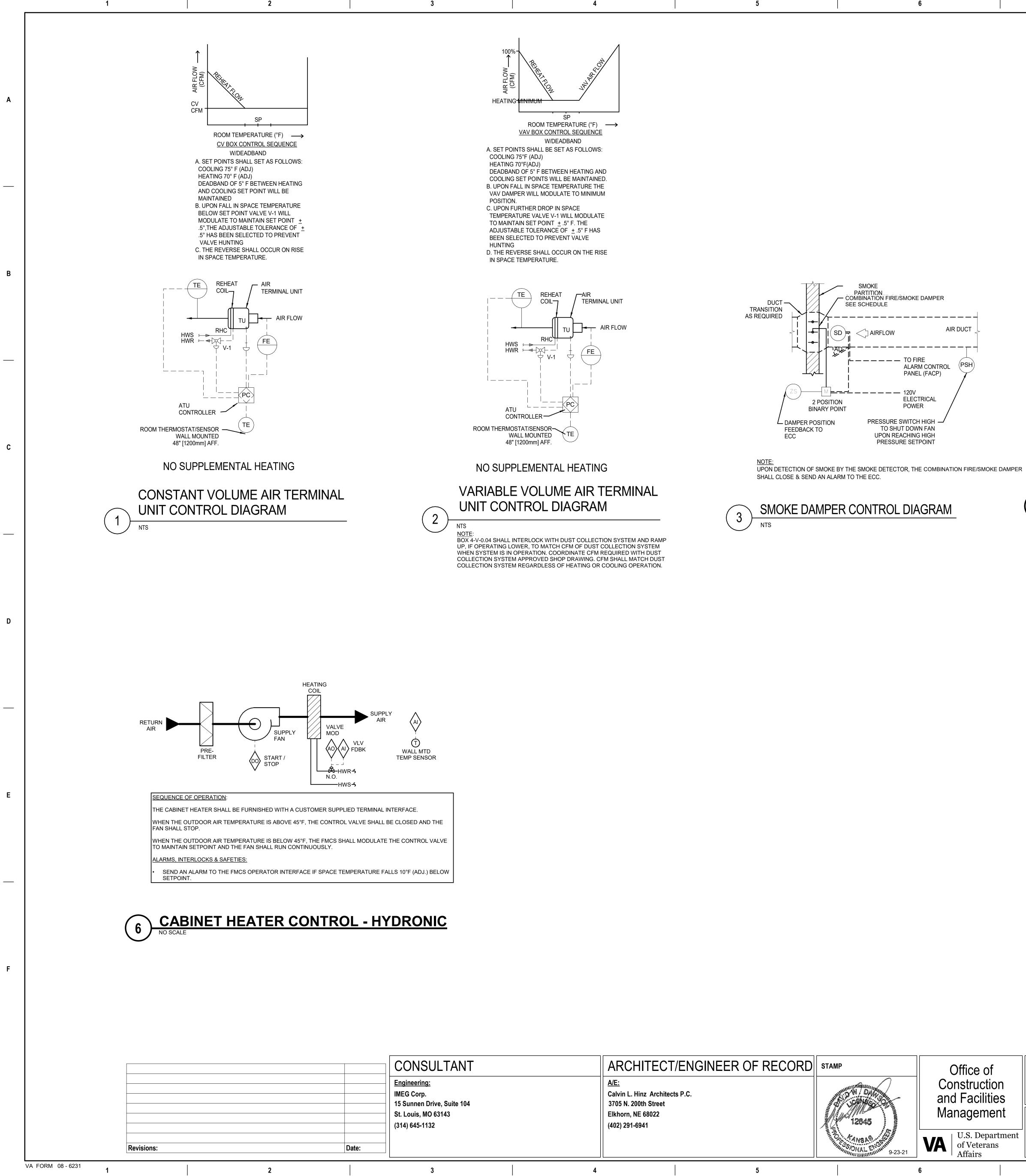
С

D

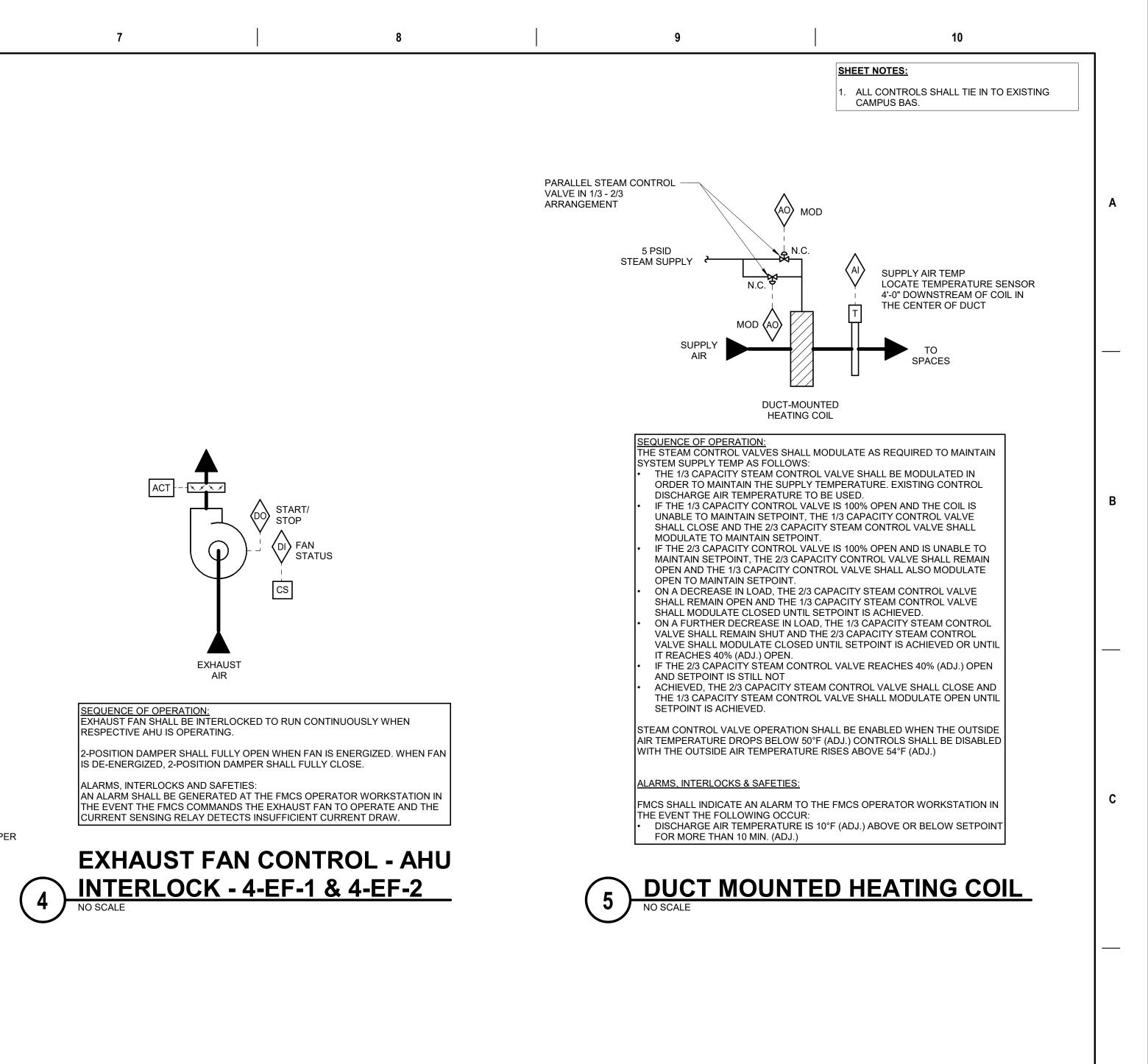
| E







-	ARCHITECT/ENGINEER OF RECORD <u>A/E:</u> Calvin L. Hinz Architects P.C. 3705 N. 200th Street Elkhorn, NE 68022 (402) 291-6941	STAMP	Office Construe and Fact Manage VA

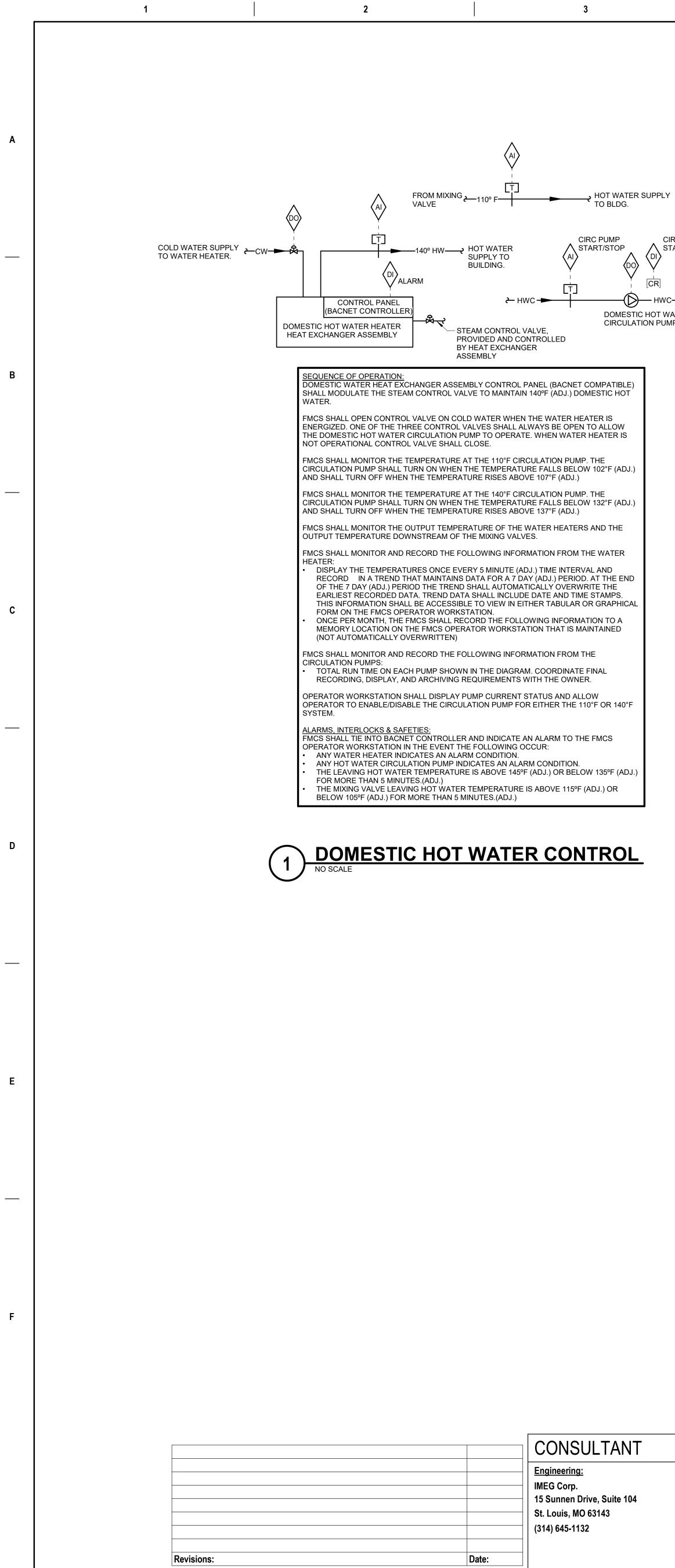


e of uction cilities	Drawing Title VENTILATION DIAGRAMS		Phase BID	DOCUMENTS		Project Title Renovate and Repair Structura Building 4		
ement	Approved:				Location Wichita, ł	٢S		
Department eterans rs			FUL	LY SPRINKLE	RED 9/23/2021	Checked RUSARN	Dra K/	
	7		8		9			

Structural,	Project Number 589A7-21-108
	Building Number 4
	Drawing Number
d Drawn RN KATDEN	V-401

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	ARCHITECT/ENGINEER OF RECORD <u>A/E:</u> Calvin L. Hinz Architects P.C. 3705 N. 200th Street Elkhorn, NE 68022 (402) 291-6941	STAMP	Office Constru and Fac Manage
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DOMESTIC HOT WATER CIRCULATION PUMP

CIRC PUMP ∧ STATUS

4 5

ce of ruction acilities	Drawing Title VENTILATION DIAGRAMS	Phase BID DOCUMENTS	Project Title Renovate and R Building 4	epair Str
gement 5. Department Veterans airs	Approved:	FULLY SPRINKLERED	Location Wichita, KS Issue Date 9/23/2021	Checked RUSARN
	7	8	9	

Structural,	Project Number 589A7-21-108 Building Number 4
ed Drawn RN KATDEN	Drawing Number V-402
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1. ALL CONTROLS SHALL TIE IN TO EXISTING

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SHEET NOTES:

CAMPUS BAS.

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					HVAC DESIG	N DATA						
			SUMM	/IER				WINT	ER		LOWEST	AVERAGE
DESIGN CONDITIONS	TE	MP	WET BU	LB TEMP	% HUMIDITY	TE	MP	DEWPOI	NT TEMP	% HUMIDITY	ANNUAL [DEWPOINT
	°F	[°C]	°F	[°C]		°F	[°C]	°F	[°C]		°F	[°C]
OUTDOOR DESIGN CONDITIONS	100.1	[38]	73.7	[23]	46	7.4	[-14]	2	[-17]	NA	-5	[-21]
				INI	DOOR AREA DESIGN	I CONDITIO	NS					
OFFICE	75	[24]	62	[17]	50	70	[21]	37	[3]	30		
EXAM ROOM	75	[24]	62	[17]	50	70	[21]	37	[3]	30		
WORKROOM	75	[24]	41	[5]	50	70	[21]	58	[14]	30		
STORAGE ROOM	N/A	N/A	N/A	N/A	N/A	68	[20]	N/A	N/A	N/A		

	-		AIR F	LOW		MAX				FRAME SIZE		CK SIZE				
MARK	TYPE	М	IN	M	٩X			MOUNTING					NC	DAMPER	FINISH	REMARKS
		CFM	[L/s]	CFM	[L/s]	IN WG	[Pa]		IN x IN	[mm x mm]	IN x IN	[mm x mm]				
RG-21	PERFORATED	60	[28]	100	[47]	0.088	22.000	CEILING	24 x 24	[600 x 600]	6 DIAM	[152 DIAM]	13	NONE	WHITE	
RG-22	PERFORATED	110	[52]	170	[80]	0.088	22.000	CEILING	24 x 24	[600 x 600]	8 DIAM	[203 DIAM]	13	NONE	WHITE	
RG-23	PERFORATED	170	[80]	250	[120]	0.088	22.000	CEILING	24 x 24	[600 x 600]	10 DIAM	[254 DIAM]	14	NONE	WHITE	
RG-24	PERFORATED	240	[110]	400	[190]	0.088	22.000	CEILING	24 x 24	[600 x 600]	12 DIAM	[305 DIAM]	12	NONE	WHITE	
RG-25	PERFORATED	320	[150]	500	[240]	0.087	22.000	CEILING	24 x 24	[600 x 600]	14 DIAM	[356 DIAM]	14	NONE	WHITE	
RG-26	PERFORATED	420	[200]	700	[330]	0.087	22.000	CEILING	24 x 24	[600 x 600]	16 DIAM	[406 DIAM]	16	NONE	WHITE	
RR-51	RETURN REGISTER	130	[61]	210	[99]	0.078	20.000	WALL	10 x 10	[254 x 254]	8 x 8	[203 x 203]	13	OBD	WHITE	
RR-52	RETURN REGISTER	200	[94]	330	[160]	0.078	20.000	WALL	12 x 12	[305 x 305]	10 x 10	[254 x 254]	15	OBD	WHITE	
RR-53	RETURN REGISTER	270	[130]	440	[210]	0.078	20.000	WALL	14 x 14	[356 x 356]	12 x 12	[305 x 305]	17	OBD	WHITE	
RR-54	RETURN REGISTER	250	[120]	610	[290]	0.082	21.000	WALL	16 x 16	[406 x 406]	14 x 14	[356 x 356]	18	OBD	WHITE	
RR-55	RETURN REGISTER	320	[150]	810	[380]	0.082	21.000	WALL	18 x 18	[457 x 457]	16 x 16	[406 x 406]	19	OBD	WHITE	
RR-56	RETURN REGISTER	90	[42]	160	[76]	0.078	20.000	WALL	10 x 8	[254 x 203]	8 x 6	[203 x 152]	12	OBD	WHITE	
RR-57	RETURN REGISTER	140	[66]	240	[110]	0.078	20.000	WALL	14 x 8	[356 x 203]	12 x 6	[305 x 152]	14	OBD	WHITE	
RR-58	RETURN REGISTER	210	[99]	350	[170]	0.078	20.000	WALL	20 x 8	[508 x 203]	18 x 6	[457 x 152]	16	OBD	WHITE	
RR-59	RETURN REGISTER	190	[90]	320	[150]	0.078	20.000	WALL	14 x 10	[356 x 254]	12 x 8	[305 x 203]	15	OBD	WHITE	
RR-510	RETURN REGISTER	220	[100]	360	[170]	0.078	20.000	WALL	14 x 12	[356 x 305]	12 x 10	[305 x 254]	16	OBD	WHITE	
RR-511	RETURN REGISTER	330	[160]	560	[260]	0.078	20.000	WALL	20 x 12	[508 x 305]	18 x 10	[457 x 254]	17	OBD	WHITE	
RR-512	RETURN REGISTER	360	[170]	850	[400]	0.082	21.000	WALL	26 x 14	[660 x 356]	24 x 12	[600 x 305]	20	OBD	WHITE	
RR-513	RETURN REGISTER	460	[220]	1260	[590]	0.095	24.000	WALL	32 x 14	[813 x 356]	30 x 12	[762 x 305]	24	OBD	WHITE	
EG-21	PERFORATED	60	[28]	100	[47]	0.088	22.000	CEILING	24 x 24	[600 x 600]	6 DIAM	[152 DIAM]	13	NONE	WHITE	
EG-22	PERFORATED	110	[52]	170	[80]	0.088	22.000	CEILING	24 x 24	[600 x 600]	8 DIAM	[203 DIAM]	13	NONE	WHITE	
EG-23	PERFORATED	170	[80]	250	[120]	0.088	22.000	CEILING	24 x 24	[600 x 600]	10 DIAM	[254 DIAM]	14	NONE	WHITE	
EG-24	PERFORATED	240	[110]	400	[190]	0.088	22.000	CEILING	24 x 24	[600 x 600]	12 DIAM	[305 DIAM]	12	NONE	WHITE	
EG-25	PERFORATED	320	[150]	500	[240]	0.087	22.000	CEILING	24 x 24	[600 x 600]	14 DIAM	[356 DIAM]	14	NONE	WHITE	
EG-26	PERFORATED	420	[200]	700	[330]	0.087	22.000	CEILING	24 x 24	[600 x 600]	16 DIAM	[406 DIAM]	16	NONE	WHITE	

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			AIR F	LOW					PANEL	/FRAME SIZE	NE	CK SIZE				
MARK	TYPE	N	/IN	N	IAX	- MAX	APD	MOUNTING			INI	[100.00.]	NC	DAMPER	FINISH	REMARKS
		CFM	[L/s]	CFM	[L/s]	IN WG	[Pa]		IN x IN	[mm x mm]	IN	[mm]				
SD-11	LOUVERED FACE	40	[19]	160	[76]	0.080	[20]	CEILING	24 x 24	[600 x 600]	6 ø	[152 ø]	19	NONE	WHITE	
SD-12	LOUVERED FACE	70	[33]	280	[130]	0.100	[25]	CEILING	24 x 24	[600 x 600]	8 ø	[203 ø]	23	NONE	WHITE	
SD-13	LOUVERED FACE	110	[52]	380	[180]	0.090	[23]	CEILING	24 x 24	[600 x 600]	10 ø	[254 ø]	22	NONE	WHITE	
SD-14	LOUVERED FACE	160	[76]	470	[220]	0.080	[20]	CEILING	24 x 24	[600 x 600]	12 ø	[305 ø]	19	NONE	WHITE	
SD-15	LOUVERED FACE	220	[100]	640	[300]	0.090	[23]	CEILING	24 x 24	[600 x 600]	14 ø	[356 ø]	21	NONE	WHITE	
SD-16	LOUVERED FACE	250	[120]	740	[350]	0.100	[25]	CEILING	24 x 24	[600 x 600]	16 ø	[406 ø]	22	NONE	WHITE	
SD-51	SUPPLY REGISTER	80	[38]	120	[57]	0.100	[25]	WALL	8 x 8	[203 x 203]	6 x 6	[152 x 152]	25	OBD	WHITE	
SD-52	SUPPLY REGISTER	80	[38]	160	[76]	0.090	[23]	WALL	12 x 8	[305 x 203]	10 x 6	[254 x 152]	25	OBD	WHITE	
SD-53	SUPPLY REGISTER	130	[61]	350	[170]	0.080	[20]	WALL	14 x 10	[356 x 254]	12 x 8	[305 x 203]	26	OBD	WHITE	
SD-54	SUPPLY REGISTER	200	[94]	500	[240]	0.100	[25]	WALL	14 x 12	[356 x 305]	12 x 10	[305 x 254]	26	OBD	WHITE	
SD-55	SUPPLY REGISTER	400	[190]	700	[330]	0.080	[20]	WALL	18 x 12	[508 x 305]	18 x 10	[457 x 254]	26	OBD	WHITE	
SD-56	SUPPLY REGISTER	360	[170]	700	[330]	0.070	[18]	WALL	18 x 18	[457 x 457]	16 x 16	[406 x 406]	27	OBD	WHITE	
SD-57	SUPPLY REGISTER	560	[260]	1100	[520]	0.070	[18]	WALL	22 x 22	[560 x 560]	20 x 20	[508 x 508]	28	OBD	WHITE	
SD-58	SUPPLY REGISTER	1250	[590]	3000	[1400]	0.100	[25]	WALL	32 x 32	[813 x 813]	30 x 30	[762 x 762]	36	OBD	WHITE	
SD-61	DRUM LOUVER	100	[47]	200	[94]	0.090	[23]	CEILING	12 x 8	[305 x 203]	10 x 6	[254 x 152]	19	NONE	WHITE	
SD-62	DRUM LOUVER	80	[38]	150	[71]	0.090	[23]	CEILING	14 x 6	[356 x 152]	12 x 4	[305 x 102]	15	NONE	WHITE	
SD-63	DRUM LOUVER	150	[71]	300	[140]	0.090	[23]	CEILING	16 x 8	[406 x 203]	14 x 6	[356 x 152]	18	NONE	WHITE	
SD-64	DRUM LOUVER	290	[140]	600	[280]	0.090	[23]	CEILING	22 x 10	[560 x 254]	20 x 8	[508 x 203]	21	NONE	WHITE	
SD-65	DRUM LOUVER	450	[210]	900	[420]	0.090	[23]	CEILING	22 x 14	[560 x 2356]	20 x 12	[508 x 305]	23	NONE	WHITE	
SD-66	DRUM LOUVER	670	[320]	1300	[610]	0.090	[23]	CEILING	32 x 14	[813 x 356]	30 x 12	[762 x 305]	25	NONE	WHITE	
SD-67	DRUM LOUVER	550	[260]	1650	[780]	0.090	[23]	CEILING	38 x 14	[965 x 356]	36 x 12	[914 x 305]	25	NONE	WHITE	

2. SEE DETAIL FOR DAMPER IN BRANCH DUCT SERVING EACH DIFFUSER.

3. PROVIDE SQUARE TO ROUND ADAPTER.

SIZE		owable Flow		Lowable Flow	DUCT IN	ILET SIZE	MAX APD			(Re: 10 -12	IUM SOUN 2 WATTS) F XIMUM INL	OR BOX D	ISCHARGE		REMARKS
	CFM	[L/s]	CFM	[L/s]	IN	[mm]	IN WG	[Pa]	2	3	4	5	6	7	
А	60	[28]	170	[80]	4	[100]	0.4	[100]	69	65	58	52	51	47	
В	90	[42]	260	[120]	5	[130]	0.4	[100]	69	63	59	52	51	47	
С	130	[61]	380	[180]	6	[150]	0.4	[100]	69	67	61	55	52	49	
D	160	[76]	490	[230]	7	[180]	0.4	[100]	70	68	63	57	53	49	
Е	230	[110]	680	[320]	8	[200]	0.4	[100]	71	68	59	53	51	47	
F	270	[130]	790	[370]	9	[230]	0.4	[100]	71	69	60	54	51	47	
G	350	[170]	1050	[500]	10	[250]	0.4	[100]	74	68	61	57	54	52	
Н	500	[240]	1500	[710]	12	[300]	0.4	[100]	73	69	64	59	57	53	
I	750	[350]	2250	[1100]	14	[350]	0.4	[100]	73	68	65	61	61	59	
J	1000	[470]	3000	[1400]	16	[400]	0.4	[100]	73	68	66	60	58	55	

3. CONTROL SEQUENCE SHALL BE AS INDICATED ON THE AIR TERMINAL UNIT SCHEDULE. 4. PROVIDE SOUND ATTENUATION AFTER-SECTION AS REQUIRED TO MEET ROOM NC LEVEL.

> CONSULTANT Engineering: IMEG Corp. 15 Sunnen Drive, Suite 104 St. Louis, MO 63143 (314) 645-1132 Date: **Revisions:**

> > 2

	4		5				6					7				8					ę	Ð			
													FAN SCHED	ULE											
					SYSTEM	AIR F		Т	SP				FAN									MOTOR ELE	CTRICAL		
Г		MARK	LOCATION	AREA AND/OR BLDG SERVED	AND/OR				0	TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION,	DIAN	ETER	MIN %	DRIVE	FAN MAX	NC	MINAL POW	ER	PHASE	VOLT	RPM	SPEE
_				BEB C CERTEB	SERVICE	CFM	[L/s]	IN	[Pa]			CLA33	AND DISCHARGE	IN	[mm]	EFF	DRIVE	RPM	BHP	HP	[kW]	FHASE	VOLI		SFEL
		4-EF-1	002A CORRIDOR	RESTROOMS	RESTROOMS	475	[220]	0.75	[190]	CENTRIFUGAL SQUARE	AIRFOIL	I	CENTRIFUGAL, CW ROTATION,	10	[250]	60%	DIRECT	1810	0.124	0.33	[]	1	115	2800	
		4-EF-2	201 OPEN OFFICE	RESTROOMS	RESTROOMS	600	[280]	0.75	[190]	CENTRIFUGAL SQUARE	AIRFOIL	I	CENTRIFUGAL, CW ROTATION,	10	[250]	60%	DIRECT	1863	0.188	0.33	[]	1	115	2800	
		NOTES					·																		

1. ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 130 . INTERLOCKED WITH EXISTING AIR HANDLING UNIT 4-/

3. INTERLOCKED WITH EXISTING AIR HANDLING UNIT 4-/

AIR FL CFM 475 600 00 FT. AHU-1.	LOW [L/s] [220] [280]	IN [Pa] 0.75 [190]	- TYPE				FΔN										MOTOR ELE					
475 600	[220]								DIAM	ETED				NOM	IINAL POV						CONTROL	REMARK
475 600 D FT.	[220]			WHEEL	CLASS ARI		NT, ROTAT SCHARGE		IN		MIN %	DRIVE	FAN MAX	BHP		[kW]	PHASE	VOLT	RPM	SPEED CONTROL	SEQUENCE	
600 D FT.		0.75 [150]	CENTRIFUGAL SQUARE	AIRFOIL				N	10	[mm] [250]	60%	DIRECT	1810	0.124	0.33	[]	1	115	2800	ECM	4/V-401	NOTES 1 &
FT.	[200]	0.75 [190]	CENTRIFUGAL SQUARE				CW ROTATIO		10	[250]	60%	DIRECT	1863	0.124	0.33	[]	1	115	2800	ECM	4/V-401	NOTES 1 &
J-2.																						
													T SCHED	ULE								
MARK	,	LOCATION		R ROOM SERVED	SYSTEM			MAX		W (NOTE 3) MIN		ONAL SOUND		OL TYPE	CON	ITROL		REHEAT		REMARK	c
MARN		LOCATION			HANDLII	IG S					-		UNATION EQUIRED	CONTRO	OLITPE	SEQL	JENCE -	1.1\A/			KEWIARK	3
4-CV-3	2	WAITING 003		TING 003	4-AHU-			FM 65	[L/s]	CFM	[L/s]		NONE		CV	10	/-401	HW	ELEC	NONE	NOTE 1	
4-CV-3		OPEN OFFICE 201		OFFICE 201	4-AHU- 4-AHU-2			65	[130] [130]	180 180	[85]		NONE		JV /AV		/-401	X			NOTE 1	
4-V-2.2		OPEN OFFICE 201		OFFICE 201	4-AHU-2			50	[71]	50	[24]		NONE		/AV		/-401	X			NOTE 1	
4-V-2.3	3	OPEN OFFICE 201	OPEN (OFFICE 201	4-AHU-2	2		00	[47]	50	[24]		NONE	V	/AV	2/V	/-401	Х			NOTE 1	
4-V-2.4	1	DIGITAL PRESS 203	DIGITAL	L PRESS 203	4-AHU-2	2	E 2	70	[130]	180	[85]		NONE	V	/AV	2/V	/-401	Х			NOTE 1	
4-V-2.5		OPEN OFFICE 201		OFFICE 201	4-AHU-2		B	50	[71]	45	[21]		NONE		/AV		/-401	Х			NOTE 1	
4-V-2.6		STUDIO 207			4-AHU-2			10	[99]	70	[33]		NONE		/AV		/-401	X			NOTE 1	
4-V-2.7		STUDIO 209 DIGITAL PRINT AREA 206		FICE 204	4-AHU-2			00	[47]	50	[24]		NONE		/AV		/-401	X			NOTE 1	
4-V-2.8 4-V-2.9		DIGITAL PRINT AREA 206 DIGITAL PRINT AREA 206		RINT AREA 206	4-AHU-2 4-AHU-2			00 50	[94] [71]	110 85	[52]		NONE		/AV /AV		/-401 /-401	X			NOTE 1 NOTE 1	
4-V-2.5		WOMEN 113		MEN 113	4-AHU-2			30	[340]	225	[110]		NONE		/AV		/-401	X			NOTE 1	
4-V-0.01		EXAM ROOM 009		ROOM 008	4-AHU-		-	70	[80]	75	[35]		NONE		/AV		/-401	X			NOTE 1	
1-V-0.02	2	EXAM ROOM 008	EXAM	ROOM 007	4-AHU-		B	80	[85]	85	[40]		NONE	V	/AV	2/V	/-401	Х			NOTE 1	
4-V-0.03	3	EXAM ROOM 007	EXAM	ROOM 007	4-AHU-		A	00	[47]	50	[24]		NONE	V	/AV	2/V	/-401	Х			NOTE 1	
4-V-0.04		WORK ROOM 015		(ROOM 015	4-AHU-			00	[378]	240	[113]		NONE		/AV		/-401	Х			NOTE 1	
4-V-0.05		CORRIDOR 010		RIDOR 010	4-AHU-			10	[99]	75	[35]		NONE		/AV		/-401	X			NOTE 1	
1-V-0.06		WORK ROOM 013		(ROOM 013	4-AHU-			60	[120]	90	[42]		NONE		/AV		/-401	X			NOTE 1	
I-V-0.07		WORK ROOM 013		FICE 014 PTION 004	4-AHU-			35	[40]	50	[24]		NONE		/AV		/-401	X			NOTE 1	
-V-0.08		CORRIDOR 006		RIDOR 002	4-AHU- 4-AHU-			.60 .90	[120]	110 105	[52]		NONE		/AV /AV		/-401 /-401	X			NOTE 1 NOTE 1	
-v-0.08 -V-0.10		WOMEN 016		MEN 016	4-AHU- 4-AHU-			00	[140] [47]	50	[24]		NONE		AV /AV		/-401	<u>х</u>			NOTE 1	
-V-0.11		MEN 017		RIDOR 018	4-AHU-		-	75	[83]	65	[31]		NONE		/AV		/-401	X			NOTE 1	
-V-0.12		OPEN OFFICE 027		OFFICE 027	4-AHU-			00	[94]	155	[73]		NONE		/AV		/-401	X			NOTE 1	
I-V-0.13		STORAGE/MAILOUTS 024		/MAILOUTS 024	4-AHU-			00	[47]	50	[24]		NONE		/AV		/-401	Х			NOTE 1	
4-V-0.14	4	STORAGE/MAILOUTS 024	STORAGE/	/MAILOUTS 024	4-AHU-		D 2	00	[94]	100	[43]		NONE	V	/AV	2/V	/-401	Х			NOTE 1	
4-V-0.15	5	STORAGE/MAILOUTS 024		FICE 025	4-AHU-		A	10	[52]	50	[24]		NONE	V	'AV		/-401	Х			NOTE 2	
4-V-0.16		OPEN OFFICE 027		FICE 026	4-AHU-			10	[52]	50	[24]		NONE		/AV		/-401	Х			NOTE 2	
4-V-0.17		LOCKED STORAGE 011		STORAGE 011	4-AHU-			75	[35]	50	[24]		NONE		/AV		/-401	X			NOTE 2	
4-V-0.18	X I	PANTRY/STORAGE 100A	KITC	CHEN 100	4-AHU-		C :	00	[142]	200	[94]		NONE	V	/AV	2N	/-401	Х			NOTE 2, 4	•

NT 104	ARCHITECT/ENGINEER OF RECORD <u>A/E:</u> Calvin L. Hinz Architects P.C. 3705 N. 200th Street	STAMP	Office of Construction and Facilities	Drawing Title VENTILATION SCHEDUL	.ES	Phase BID DOCUMENTS	Project Title Renovate and R Building 4	epair Structu	Jral,
104	Elkhorn, NE 68022 (402) 291-6941	12845		Approved:			Location Wichita, KS		
		ANSAS ONAL COMMUNICATION 9-23-21	VA U.S. Department of Veterans Affairs			FULLY SPRINKLERED		1 11	Drawr KATI
4	5		6	7		8	9		

	1	C	COMBINATI		E/SMOKE	DAMPE	R SCHEI	DULE
MARK	LOCATION	FAN SYSTEM	SYSTEM AND/OR SERVICE	DU(CT SIZE	DUCT PR		REMARKS
			SERVICE	IN	[mm]	IN WG	[Pa]	
4-FSD-1	018 CORRIDOR	EXISTING	4-AHU-1	9x9	[230 x 230]	1	[250]	COMBINATION F/S
4-FSD-2	018 CORRIDOR	EXISTING	4-AHU-1	26 x 14	[660 x 355]	1	[250]	COMBINATION F/S
4-FSD-3	018 CORRIDOR	EXISTING	4-AHU-1	6 x 6	[150 x 150]	1	[250]	COMBINATION F/S
4-FSD-4	015 WORKROOM	EXISTING	4-AHU-1	10 x 8	[254 x 205]	1	[250]	COMBINATION F/S

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Stru	ctural,	589A7-21-108
		Building Number
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MARK	LOCATION	AREA AND/OR BLDG SERVED	AND/OR	APPLICATION	AIR FL		VELOC		APD	EAT		LAT	CAP	ACITY	FLC)W	EW	/1	LWT		WP		% GLYCOL	REMAR
4-HC-2 4-HC-2.1	WAITING 003 OPEN OFFICE 201	WAITING 003 OPEN OFFICE 201	SERVICE 4-CV-2 4-V-2.1	REHEAT	CFM 200 215	[94]	FPM 1000 1000	[M/s] IN W [5] 0.1 [5] 0.2	16 [40]	°F	[13]	°F [°C] 95 [35]	9	[kW] [29]	GPM 1.9 1.7	[L/s]	°F 180 180	[°C] [82]	°F 140 140	[°C]	FT 0.8	[kPa] [2]	0	NOTE 1 NOTE 1
4-HC-2.1 4-HC-2.2 4-HC-2.3	OPEN OFFICE 201 OPEN OFFICE 201 OPEN OFFICE 201	OPEN OFFICE 201 OPEN OFFICE 201 OPEN OFFICE 201	4-V-2.1 4-V-2.2 4-V-2.3	REHEAT REHEAT REHEAT	215 100 100	[47]	1000 1000 1000	[5] 0.2 [5] 0.0 [5] 0.1	09 [23]	55 55 55	[13]	95 [35 95 [35 95 [35 95 [35	4	[32] [15] [15]	0.6	[]	180 180 180	[82] [82] [82]	140 140 140		0.64 0.05 0.05	[2] [] []	0	NOTE 1 NOTE 1 NOTE 1
4-HC-2.4 4-HC-2.5	DIGITAL PRESS 203 OPEN OFFICE 201	DIGITAL PRESS 203 OPEN OFFICE 201	4-V-2.4 4-V-2.5	REHEAT REHEAT	100	[47]	1000 1000	[5] 0.2 [5] 0.0	06 [15]	55 55	[13]	95 [35] 95 [35]	4	[32] [15]	1.4 0.6	[]	180 180	[82] [82]	140 140		0.32 0.05	[1]	0	NOTE 1 NOTE 1
4-HC-2.6 4-HC-2.7 4-HC-2.8	STUDIO 207 STUDIO 209 DIGITAL PRINT AREA 206	STUDIO 207 OFFICE 204 DIGITAL PRINT AREA 206	4-V-2.6 4-V-2.7 4-V-2.8	REHEAT REHEAT REHEAT	165 100 130	[47]	1000 1000 1000	[5] 0.1 [5] 0.2 [5] 0.2	25 [63]	55 55 55	[13]	95 [35 95 [35 95 [35 95 [35	4	[24] [15] [19]	0.8 0.7 0.6	[]	180 180 180	[82] [82] [82]	140 140 140		0.11 0.13 0.1	[]	0	NOTE 1 NOTE 1 NOTE 1
4-HC-2.9 4-HC-1.1	DIGITAL PRINT AREA 200 WOMEN 113	DIGITAL PRINT AREA 200 DIGITAL PRINT AREA 200 WOMEN 113	4-V-2.9 4-V-1.1	REHEAT	100 460	[47]	1000 1000 1000	[5] 0.2 [5] 0.0 [5] 0.3	06 [15]	55 55	[13]	95 [35] 95 [35] 95 [35] 95 [35]	4	[15]	0.6		180 180 180	[82]	140 140 140		0.05	[]	0	NOTE NOTE NOTE
4-HC-0.01 4-HC-0.02	EXAM ROOM 009 EXAM ROOM 008	EXAM ROOM 008 EXAM ROOM 007	4-V01 4-V02	REHEAT REHEAT	90 100	[47]	1000 1000	[5] 0.0 [5] 0.0	06 [15]	55 55	[13]	85 [30] 85 [30]	3	[10] [11]	0.6 0.6	[]	180 180	[82] [82]	140 140		0.19 0.19	[1] [1]	0	NOTE NOTE
4-HC-0.03 4-HC-0.04 4-HC-0.05	EXAM ROOM 007 WORK ROOM 015 CORRIDOR 010	EXAM ROOM 007 WORK ROOM 015 CORRIDOR 010	4-V03 4-V04 4-V05	REHEAT REHEAT REHEAT	70 240 185	[113]	1000 1000 1000	[5] 0.0 [5] 0.1 [5] 0.3	14 [35]	55 55 55	[13]	95 [35 95 [35 95 [35 95 [35	9.6	[10] [32] [27]	0.6 0.6 0.6	[]	180 180 180	[82] [82] [82]	140 140 140		0.05 0.04 0.1	[]	0	NOTE · NOTE · NOTE ·
4-HC-0.06 4-HC-0.07	WORK ROOM 013 WORK ROOM 013	WORK ROOM 013 OFFICE 014	4-V06 4-V07	REHEAT REHEAT	150 150 60	[71]	1000 1000 1000	[5] 0.1 [5] 0.0	13 [33]	55 55 55	[13]	95 [35] 95 [35] 95 [35]	6	[22]	0.6	[]	180 180	[82]	140 140 140		0.05	[]	0	NOTE NOTE NOTE
4-HC-0.08 4-HC-0.09 4-HC-0.10	CORRIDOR 006 CORRIDOR 006	CORRIDOR 002 WOMEN 016	4-V08 4-V09 4-V10	REHEAT REHEAT	130 180	[85]	1000 1000	[5] 0.0 [5] 0.0	07 [18]	55 55	[13]	95 [35] 95 [35] 95 [35]	8	[19] [27]	0.5	[]	180 180	[82] [82]	140 140		0.14	[]	0	NOTE NOTE NOTE
4-HC-0.10 4-HC-0.11 4-HC-0.12	WOMEN 016 MEN 017 OPEN OFFICE 027	CORRIDOR 018 OPEN OFFICE 027	4-V10 4-V11 4-V12	REHEAT REHEAT REHEAT	65 80 185	[38]	1000 1000 1000	[5] 0.0 [5] 0.0 [5] 0.0	06 [15]		[13]	95 [35 95 [35 85 [30	3	[10] [12] [20]	0.6 0.6 0.6	[]	180 180 180	[82] [82] [82]	140 140 140		0.19 0.19 0.05	[1] [1] []	0	NOTE NOTE NOTE
4-HC-0.13 4-HC-0.14	STORAGE/MAILOUTS 024	STORAGE/MAILOUTS 024 STORAGE/MAILOUTS 024	4-V13 4-V14	REHEAT REHEAT	100 60	[47] [28]	1000 1000	[5] 0.0 [5] 0.1	06 [15] 1 [25]	55 55	[13] [13]	95 [35] 95 [35]	4	[15] [9]	0.6 0.6	[]	180 180	[82] [82]	140 140		0.05 0.26	[]	0	NOTE NOTE
4-HC-0.15 4-HC-0.16 4-HC-0.17	OPEN OFFICE 027	OFFICE 025 OFFICE 026 LOCKED STORAGE 011	4-V15 4-V16 4-V17	REHEAT REHEAT REHEAT	85 85 75	[40]	1000 1000 1000	[5] 0.1 [5] 0.1 [5] 0.0	1 [25]	55 55 55	[13]	95 [35 95 [35 95 [35 95 [35	4	[13] [13] [10]	0.6 0.6 0.6	[]	180 180 180	[82] [82] [82]	140 140 140		0.26 0.26 0.05	[1] [1] []	0 0 0 0	NOTE NOTE NOTE
4-HC-0.18 NOTES	PANTRY/STORAGE 100A	KITCHEN 100	4-V18	REHEAT	300		1000	[5] 0.0		55		95 [35]		[44]	1.0	[]	180	[82]	140				0	NOTE

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Γ		ARCHITECT/ENGINEER OF RECORD	STAMP	Office
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			ANSAS ONAL SUMMER 9-23-21	VA U.S. D of Vete Affairs
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ORD	STAMP	Office of Construction and Facilities	Drawing Title VENTILATION SCHEDULES	Phase BID DOCUMENTS	Project Title Renovate and F Building 4	Repair Str
	12845	Management	Approved:		Location Wichita, KS	
	ANSAS	VA U.S. Department of Veterans Affairs		FULLY SPRINKLERED	Issue Date 9/23/2021	Checked RUSARN
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