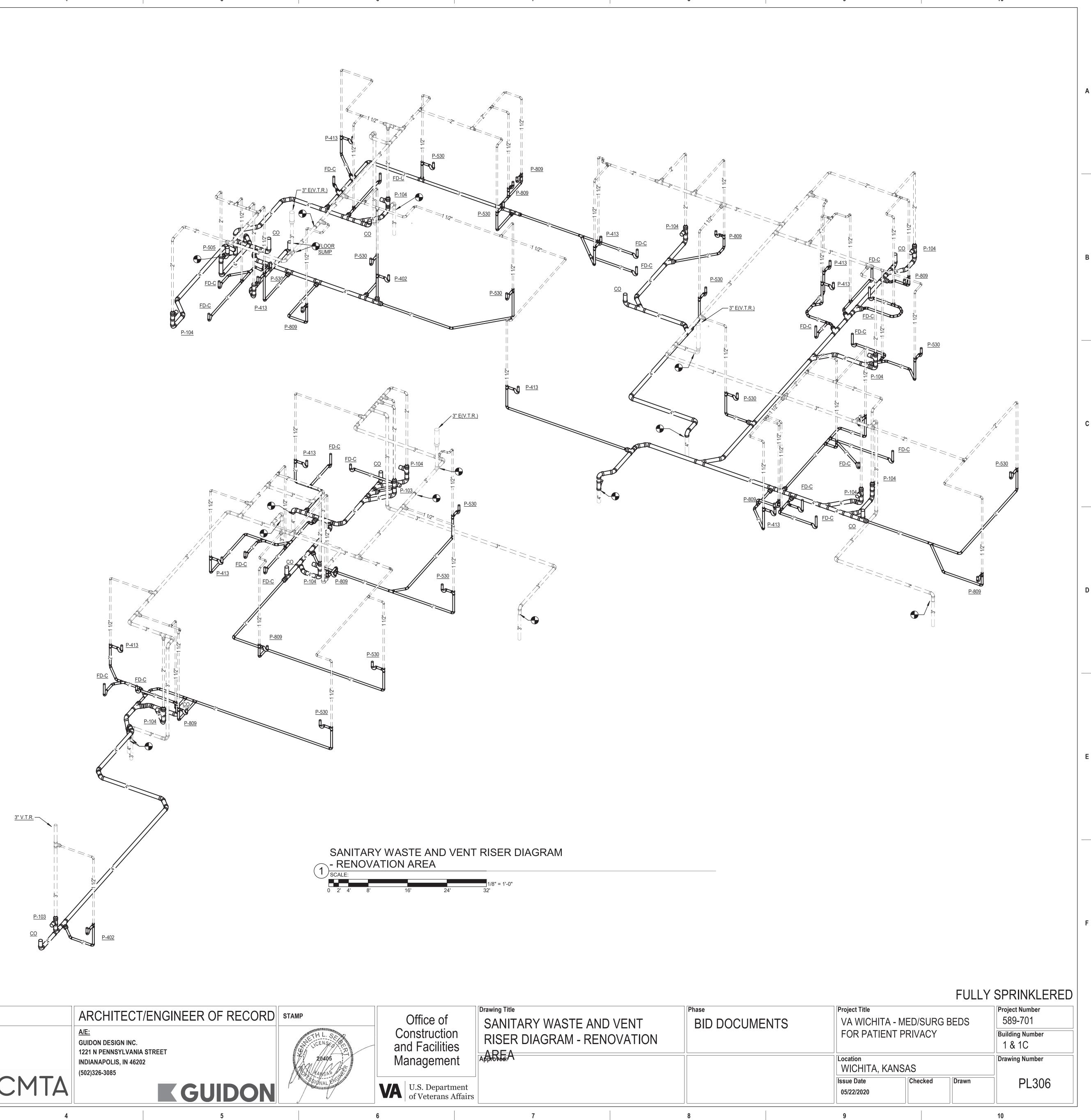
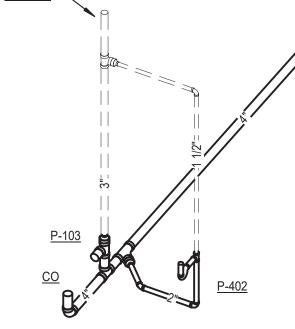
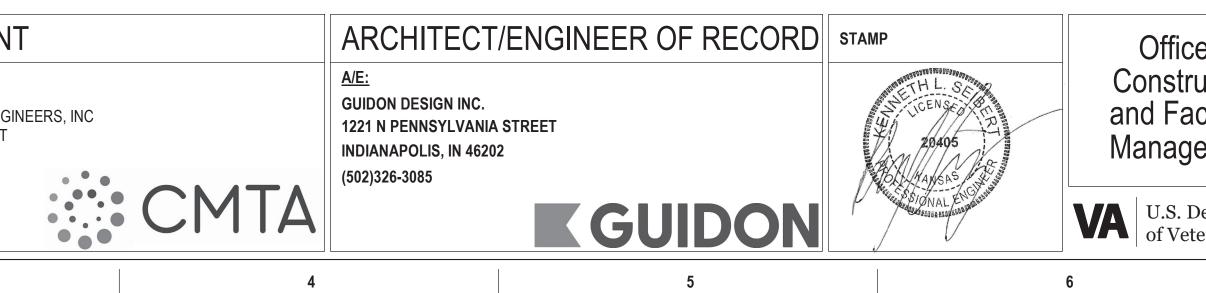


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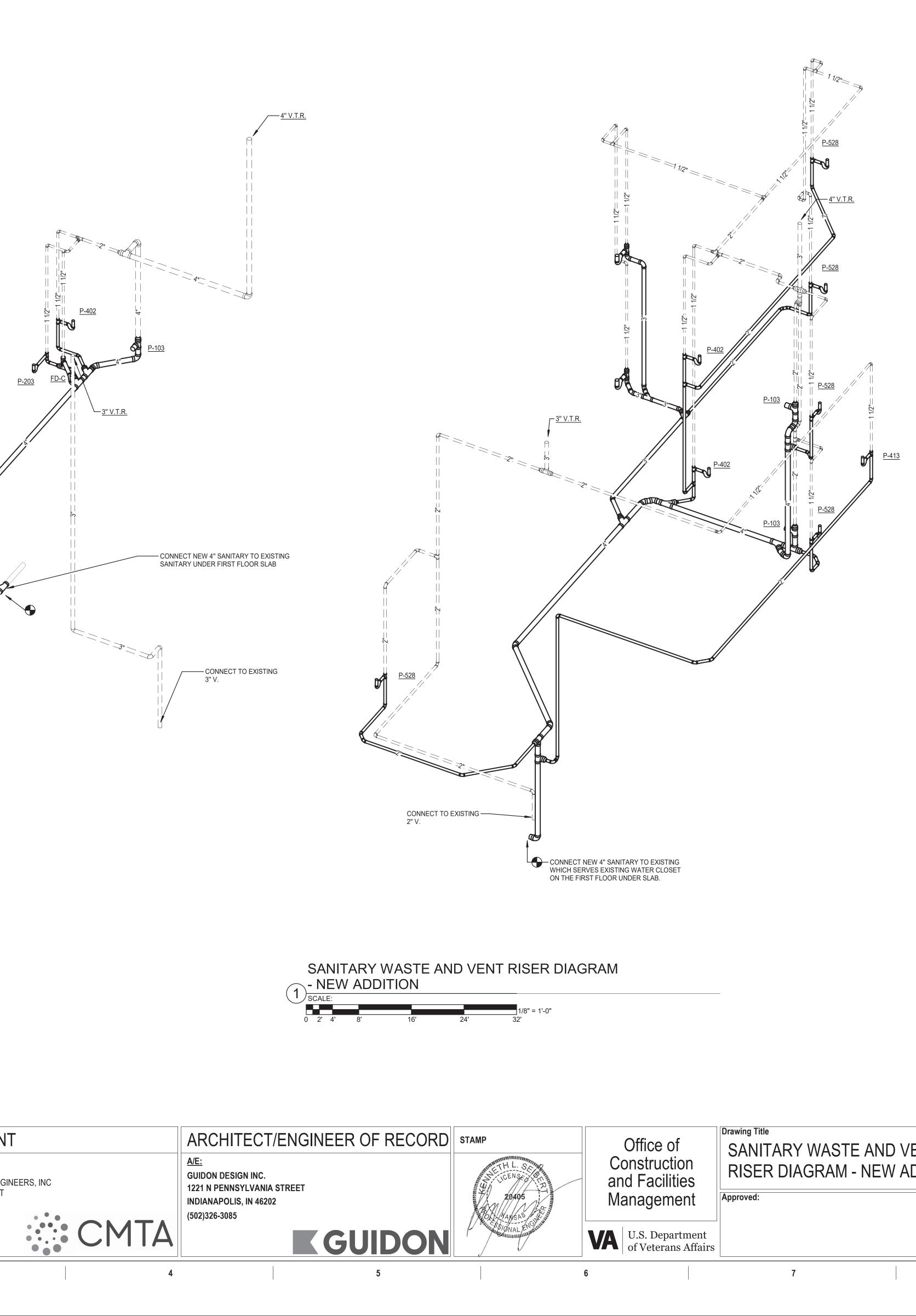
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_		1	2		
	GI A.	ENERAL NOTES - MECHANICAL COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS O			D
	Λ.	ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQ ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED A	JIPMENT, AAHX	ARCHITECT / ENGINEEI AIR TO AIR HEAT EXC AUTOMATIC AIR VENT	HANGER
	В.	EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COUL THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT	ACCU ANY ACU	AIR COOLED CONDER AIR CONDITIONING UN	NSING UNIT
		EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR A TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRI VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROU	TTENTION AD CAL LINES. AFF	ACCESS DOOR ABOVE FINISHED FLOO AIR FLOW MEASURIN	
A		OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCO ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STA AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED I	RD WITH AHU NDARD AHU	AIR-HANDLING UNIT	IG STATION
	C.	WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STA IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPL WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER O	ANDARDS. AP Y. APD R GYPSUM APD	ACCESS PANEL AIR PRESSURE DROP	
		BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FO REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGE CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM	ARI D) OF ALL AS	AIR CONDITIONING AN	
	D.	NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. A PATCHING WORK SHALL MATCH ADJACENT SURFACES. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM T	LL	AE AMERICAN SOCIETY CONDITIONING ENGINEE AMERICAN SOCIETY	ERS
	E. F.	OF OTHER TRADES, WHETHER EXISTING OR NEW. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENT PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (T	S. BD O OWNER'S BDD	BUTTERFLY DAMPER BACKDRAFT DAMPER	
		STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO RE DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH AD SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWN	JACENT BHP	BACKFLOW PREVENTE BRAKE HORSEPOWER BRITISH THERMAL UNI	
	G.	OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THA APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, I FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH C	OCAL, BTUH	BRITISH THERMAL UN CENTIGRADE (CELSIUS)	NIT PER HOUR
	Н.	KENTUCKY, ETC.) CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AN ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVE	RED CC	COOLING COIL	
В		DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEM PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTA ENGINEERS TO REVIEW THE ROUTING.	CT THE CD	COOLING COIL CONDE CEILING DIFFUSER	
	I.	IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED M SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY	00 1	CONSTRUCTION DOCI CONSTRUCTION DOCI CUBIC FEET PER HOU	JMENTS (SUBM
	J.	FLOOR PENETRATIONS. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE A EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WAT	LL CFM	CUBIC FEET PER MINU CUBIC FEET	
	K.	PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHA	ALL BE CG	CHEMICAL FEED PUMP CEILING GRILLE	D
		APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED S CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATE PENETRATIONS.	O PIPING CHR	CHILLER WATER CHILLED WATER RETU	
	L.	ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDIN BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH LIFE SAFETY MEASURES.	HINTERIM CI CM	CHILLED WATER SUPP CAST IRON CARBON MONOXIDE	-1
	М. N.	ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILI BE ABOVE CEILING EXCEPT AS NOTED. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN	NGS SHALL CM LOW CM/S	CUBIC METER CUBIC METER PER SE	
	0.	POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS. LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMA SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCAL	COP TE AND CR	COEFFICIENT OF PERF CEILING REGISTER	FORMANCE
	Ρ.	DRAWINGS. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHO PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.	VN. CW	CONSTANT VOLUME COLD WATER (POTABL CHILLED WATER CO	
с	Q.	COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AN TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDU OTHER EQUIPMENT.	D OTHER IT AND D Db	DAMPER - AUTOMATIC DRY-BULB TEMPERATU	
	R.	INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT AC WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CON WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVI	IFLICT DCW	DECIBELS DOMESTIC COLD WAT	
	S.	ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROV RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQU SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS	THROUGH DD-2	DESIGN DEVELOPMEN	IT (SUBMISSION
	Т.	WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PA SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONG OR EQUAL WATER BASED SEALANT.	RIP 601 DEG DF	DIRECT DIGITAL CONT DEGREE DIFFUSER	IRULS
	U. V.	ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWIS THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EC	KIBLE DHW E NOTED.	DOMESTIC HOT WATE	
	W.	APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CO WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS	BEFORE	DIAMETER DEW POINT TEMPERAT	
		INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIC EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DE THESE DOCUMENTS.		DIFFERENTIAL PRESS DIFFERENTIAL PRESS DIRECT EXPANSION	
	Х.	DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SU RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES N REQUIRED FOR KITCHEN EXHAUSTS.	PPLY,	DIRECTENTATION	
	Y.	ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRO EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTA	IN AN		
D		SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INST CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABI PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF	LITY OF A		
	Z.	ENGINEER. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIP THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY	OF THE		
		PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGNOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.	INEERS OR		
12 AM	AA.	VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEI THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS	ING. IF DOOR		
0 10:02:0		SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENAN ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LO UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL A	DCATED AN LL SUCH		
5/22/2020 10:02:02 AM		ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER INSTALLING.			
Q					
	A.	ENERAL NOTES - DEMOLITION THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RES	FOR AREAS A.	ZARDOUS MATERI THE CONTRACTOR IT IS H ASBESTOS AND/OR OTHE	IEREBY ADVISED
E		FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, (ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITION	CEILING	IN THIS BUILDING(S). AI ENCOUNTERS ANY MATER SHALL PROMPTLY REPOR	NY WORKER, OC RIAL OF WHOSE
	В.	TO OWNER. FIELED VERIFY EXACT REQUIREMENTS. ALL OUTAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR		MATERIAL TO THE OWNER INSURE THAT NO ONE CO MATERIAL OR FUMES THE	R. FURTHERMO MES NEAR TO C
	C.	OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO ADVANCE. DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL	WEEKS IN B.	ASCERTAINED TO BE NON CMTA, INC. HAS NO EXPEN OF ANY HAZARDOUS MAT	I-HAZARDOUS. RTISE IN THE DE
	_	FIRE WATCH OF AREAS WITH OUTAGES. ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EX AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR	ISTING	MADE BY CMTA TO IDEN HAZARDOUS MATERIAL. F WILL NOT OFFER OR MAK	TIFY THE EXISTE FURTHERMORE,
	E.	SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING. ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING DEMOLITION PHASE.		REMOVAL, HANDLING OR IF THE WORK WHICH IS T RELATES IN ANY PHYSICA	DISPOSAL OF S O BE PERFORME
	F. G.	HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AI SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDIC		WHICH CONTAIN OR BEA ONE, THEN IT SHALL BE	R ANY HAZARDO
	0.	DEMOLITION) WITH THE OWNER.		THE CONTRACTOR BY EXE AND/OR BY THE ACCOMP BRING NO CLAIM RELATI	ECUTION OF THE LISHMENT OF AI
				BREACH OF CONTRACT, I CMTA, ITS PRINCIPALS, E THE CONTRACTOR FURTH	NDEMNITY, OR A
				CMTA, ITS PRINCIPALS, E HARMLESS FROM ANY SUC ANY SUBCONTRACTORS, S	Employees, age Ch related CL
F			E.	THE CONTRACTOR IS DIR INFORMATION.	
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E	ARCHITEGT / ENGINEER
AHX	AIR TO AIR HEAT EXCHANGER
AV	AUTOMATIC AIR VENT
CCU	AIR COOLED CONDENSING UNIT
CU	AIR CONDITIONING UNIT
D	ACCESS DOOR
FF	ABOVE FINISHED FLOOR
FMS	AIR FLOW MEASURING STATION
HU	AIR-HANDLING UNIT
MP	AMPERE
	ACCESS PANEL
PD	AIR PRESSURE DROP
RI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
S	AIR SEPARATOR
SHR/	AE AMERICAN SOCIETY OF HEATING REFRIGERATION AIR
	CONDITIONING ENGINEERS
SME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
C	BUTTERFLY DAMPER
DD	
=P	BACKFLOW PREVENTER
ΗP	
ΓU	BRITISH THERMAL UNIT
ГИН	
	BRITISH THERMAL UNIT PER HOUR
	CENTIGRADE (CELSIUS)
AV	CONSTANT AIR VOLUME
C	COOLING COIL
CD	COOLING COIL CONDENSATE DRAIN
D	CEILING DIFFUSER
D-1	CONSTRUCTION DOCUMENTS (SUBMISSION1)
D-2	CONSTRUCTION DOCUMENTS (SUBMISSION2)
FH	CUBIC FEET PER HOUR
FM	CUBIC FEET PER MINUTE
FT	CUBIC FEET
FP	CHEMICAL FEED PUMP
	CEILING GRILLE
G	
HW	CHILLER WATER
HR	
HS	CHILLED WATER SUPPLY
	CAST IRON
M	CARBON MONOXIDE
M	CUBIC METER
M/S	CUBIC METER PER SECOND
OP	COEFFICIENT OF PERFORMANCE
R	CEILING REGISTER
V	CONSTANT VOLUME
Ŵ	
WCC	COLD WATER (POTABLE) CHILLED WATER COOLING COIL
WUU	
	DAMPER - AUTOMATIC
2	DRY-BULB TEMPERATURE
B	DECIBELS
CW	DOMESTIC COLD WATER
D-1	DESIGN DEVELOPMENT (SUBMISSION 1)
D-2	DESIGN DEVELOPMENT (SUBMISSION 2)
DC	DIRECT DIGITAL CONTROLS
EG	DEGREE
=	DIFFUSER
ЧW	DOMESTIC HOT WATER
HWR	
A ⊃	
PA	DIFFERENTIAL PRESSURE ASSEMBLY

MATERIALS NOTES

- CTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT DING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO SANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN TLY REPORT THE EXISTENCE AND LOCATION OF THAT THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH R FUMES THEREFROM UNTIL ITS CONTENT CAN BE D TO BE NON-HAZARDOUS.
- AS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE ARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN TA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF FFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE NDLING OR DISPOSAL OF SUCH MATERIAL.
- WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS TAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO E OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
- CTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO AIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST RINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, CTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD INCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS ROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY TRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- CTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER л**х**.

CONSULTANT Consultant: CMTA CONSULTING ENGINEERS, INC 10411 MEETING STREET

PROSPECT, KY 40059 (502)326-3085

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EAT EC ECU EDH EF EG EGS EGT EH EJ ENT ER ERC ERP ET ETO EUH EWC EWT	EXHAUST AIR ENTERING AIR TEMPERATURE EVAPORATIVE COOLER ENGINEERING CONTROL CENTER EVAPORATIVE CONDENSER UNIT ELECTRIC DUCT HEATER ENERGY EFFICIENCY RATIO EXHAUST FAN EXHAUST GRILLE EMERGENCY GAS SHUTOFF ENTERING GLYCOL TEMPERATURE EXHAUST HOOD EXPANSION JOINT END OF MAIN DRIP (STEAM) ENTERING EXHAUST REGISTER ELECTRIC REHEAT COIL ELECTRIC REHEAT COIL ELECTRIC RADIANT PANEL EXTERNAL STATIC PRESSURE EXPANSION TANK ETHYLENE OXIDE ELECTRIC UNIT HEATER EVAPORATIVE WATER COOLER ENTERING WATER TEMPERATURE EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER
F&T F/SDPF FA	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA
F&T F/SDPF FA FC	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA FLEXIBLE CONNECTION
F&T F/SDPF FA FC FCU FCUC	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ONLY
F&T F/SDPF FA FC FCU FCUC FCUH	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ONLY FAN COIL UNIT HEATING ONLY
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F&T F/SDPF FA FC FCU FCUC FCUH FCW FD FD FD FD FF FHX FM FOP FOT FOHX FPM FPS FPTU FR FRP	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ONLY FAN COIL UNIT COOLING ONLY FAN COIL UNIT HEATING ONLY FORWARD CURVED WHEEL (FAN) FLOOR DRAIN FIRE DAMPER FINAL FILTER FLUE GAS/FEEDWATER HEAT EXCHANGER FLUE GAS/FEEDWATER HEAT EXCHANGER FLOW METER FUEL OIL PUMP FUEL OIL PUMP FUEL OIL TANK FUEL OIL HEAT EXCHANGER FEET PER MINUTE FEET PER SECOND FAN POWERED TERMINAL UNIT FLOOR REGISTER FIBER REINFORCED POLYESTER
F&T F/SDPF FA FC FCU FCUC FCUH FCW FD FD FD FD FF FHX FM FOP FOT FOHX FPM FPS FPTU FR FRP FS	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ONLY FAN COIL UNIT HEATING ONLY FORWARD CURVED WHEEL (FAN) FLOOR DRAIN FIRE DAMPER FINAL FILTER FLUE GAS/FEEDWATER HEAT EXCHANGER FLOW METER FUEL OIL PUMP FUEL OIL PUMP FUEL OIL HEAT EXCHANGER FEET PER MINUTE FEET PER SECOND FAN POWERED TERMINAL UNIT FLOOR REGISTER FIBER REINFORCED POLYESTER FLOW SWITCH
F&T F/SDPF FA FC FCU FCUC FCUH FCW FD FD FD FD FF FHX FM FOP FOT FOHX FPM FPS FPTU FR FRP FS	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT (4 PIPE) FAN COIL UNIT COOLING ONLY FAN COIL UNIT THEATING ONLY FORWARD CURVED WHEEL (FAN) FLOOR DRAIN FIRE DAMPER FINAL FILTER FLUE GAS/FEEDWATER HEAT EXCHANGER FLOW METER FUEL OIL PUMP FUEL OIL PUMP FUEL OIL HEAT EXCHANGER FEET PER MINUTE FEET PER MINUTE FEET PER SECOND FAN POWERED TERMINAL UNIT FLOOR REGISTER FIBER REINFORCED POLYESTER FLOW SWITCH FREEZESTAT

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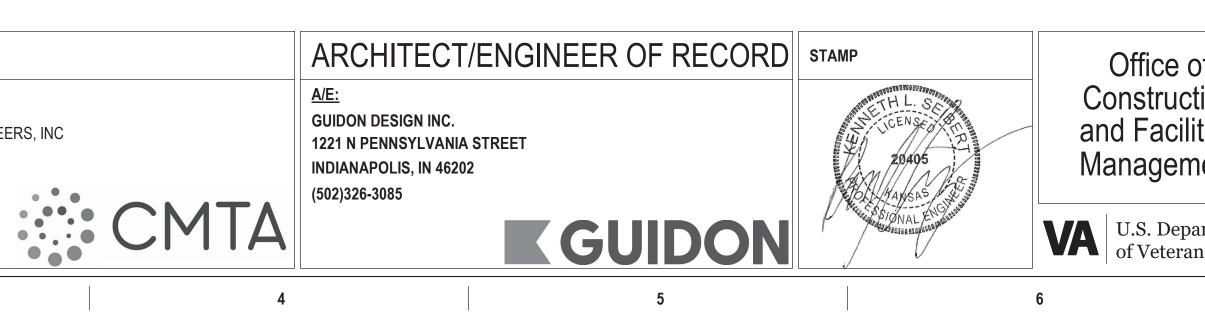
- FT-LB FOOT-POUND
- FTR FIN TUBE RADIATION FV FACE VELOCITY
- GA GAUGE GAL GALLONS GH GRAVITY HOOD GPD GALLONS PER DAY GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GPR GAS PRESSURE REGULATOR GS GALVANIZED STEEL H HUMIDIFER HAC HOUSEKEEPING AID CLOSET HB HOSE BIBB HC HEATING COIL HD HOOD HOA HAND/OFF/AUTOMATIC HP HEAT PUMP HP HORSEPOWER HPDT HIGH PRESSURE DRIP TRAP HPR HIGH PRESSURE RETURN (STEAM CONDENSATE) HPS HIGH PRESSURE SUPPLY (STEAM) HRC HEAT RECOVERY COIL HRD HEAT RECOVERY DEVICE HRP HYDRONIC RADIANT (CEILING) PANEL HRW HEAT RECOVERY WHEEL HSTAT HUMIDISTAT HTM HUMIDIFIER TERMINAL HUM HUMIDIFIER UNIT MOUNTED HVU HEATING AND VENTILATING UNIT HW HOT WATER HWC HOT WATER COIL HWHC HOT WATER HEATING COIL HWP HEATING HOT WATER PUMP HWR HEATING HOT WATER RETURN HWS HEATING HOT WATER SUPPLY HWUH HOT WATER UNIT HEATER HVD HOISTWAY VENT DAMPER HX HEAT EXCHANGER HZ HERTZ I/O INPUT/OUTPUT IAQ INDOOR AIR QUALITY IBT INVERTED BUCKET TRAP ICF IN-LINE CENTRIFUGAL FAN ID INSIDE DIAMETER IFB INTEGRAL FACE AND BYPASS IN INCHES IN HG INCHES OF MERCURY IN WC INCH WATER COLUMN IN WG INCH WATER GAUGE IN-LB INCH-POUND

5

LAT LEAVING AIR TEMPERATURE
LBS/HR POUNDS PER HOUR
LF LINEAR FOOT (FEET)
LGT LEAVING GLYCOL TEMPERATURE
LH LATENT HEAT
LPG LIQUEFIED PETROLEUM GAS
LPR LOW PRESSURE RETURN (STEAM
CONDENSATE)
LPRC LOW PRESSURE STEAM RETURN (CLEAN)
LLHX LIQUID TO LIQUID HEAT EXCHANGER
LPS LOW PRESSURE STEAM
LPSC LOW PRESSURE STEAM (CLEAN)
LSD LINEAR SLOT DIFFUSER
LTCP LOCAL TEMPERATURE CONTROL PANEL
LVG LEAVING
LVR LOUVER
LWT LEAVING WATER TEMPERATURE
MA MIXED AIR
MAT MIXED AIR TEMPERATURE
MAU MAKE-UP AIR UNIT
MAV MANUAL AIR VENT
MAX MAXIMUM
MB MIXING BOX
MBH 1,000 BTUH
MCA MINIMUM BRANCH CIRCUIT AMPACITY
MER MECHANICAL EQUIPMENT ROOM
MERV MINIMUM EFFICIENCY REPORTING VALUE
MH MANHOLE
MHP MOTOR HORSEPOWER
MIN MINIMUM
MM MILLIMETER
MOV MOTOR OPERATED VALVE
MPR MEDIUM PRESSURE RETURN (STEAM
CONDENSATE)
MPS MEDIUM PRESSURE STEAM
MRI MAGNETIC RESONANCE IMAGING
MTD MEAN TEMPERATURE DIFFERENCE
MVD MANUAL VOLUME DAMPER
MZ MULTI-ZONE
NA NOT APPLICABLE
NC NOISE CRITERIA
NC NORMALLY CLOSED
NO NORMALLY OPEN
NOM NOMINAL NPLV NON-STANDARD PART LOAD VALUE
NPSH NET POSITIVE SUCTION HEAD
NPSH NET POSITIVE SUCTION HEAD NPSHA NET POSITIVE SUCTION HEAD AVAILABLE
NPSHA NET POSITIVE SUCTION HEAD AVAILABLE NPSHR NET POSITIVE SUCTION HEAD REQUIRED
NTS NOT TO SCALE
OA OUTSIDE AIR

6

Sh SHEET # MM001 MD101 MD102 MD103 MD104 MD203 MH100 MH101 MH102 MH103 MH104 MP100 MP101 MP102 MH200 MH500 MH501 MH502 MH503 MH504 MH505 MH506 MH600



P PC	PUMP PUMPED CONDENSATE		
PCF PD	POUNDS PER CUBIC FOOT (FEET) PRESSURE DROP	GENERALS	SYMBOLS
PEF PF	PROPELLER (TYPE) EXHAUST FAN PRE-FILTER	#	TAGGED NOTE DESIG
G	PRESSURE GAGE	\square	REVISION TRIANGLE
PHC	PREHEAT COIL PRESSURE REGULATING (VALVE) STATION	ROOM NAME RM #	ROOM TAG
PRV PSI	PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH	TAG XXX-#	EQUIPMENT TAG
SS	PRIMARY SECONDARY SYSTEM		POINT OF CONNECT
SV A	PRESSURE SAFETY VALVE RETURN AIR		
RAD RAT		~	POINT OF DEMOLITI
REA	RELIEF AIR		
RELAD RF	RELIEF AIR DAMPER		
RG	RETURN GRILLE		
RH	RELATIVE HUMIDITY		
RHC RHG	REHEAT COIL REFRIGERANT HOT GAS		
RL	REFRIGERANT LIQUID LINE		
RLA	RUN LOAD AMPERE	10/4 6 1 5 6	
RPM RR	REVOLUTIONS PER MINUTE RETURN REGISTER		
RS	REFRIGERANT SUCTION	XX	SUPPLY AIR DIFFUSE
RTU	ROOF TOP UNIT	QD	RETURN AIR DIFFUS
RV SA	RELIEF VALVE SUPPLY AIR		EXHAUST AIR DIFFU
SAD SAT	SOUND ATTENUATING DEVICE SUPPLY AIR TEMPERATURE		TRANSFER AIR DIFFU
SC	SHADING COEFFICIENT		SIDEWALL DIFFUSER
SCFM SCI	STANDARD CUBIC FEET PER MINUTE SPINAL CODE INJURY		
SCR	SILICON CONTROLLED RECTIFIER		SIDEWALL DIFFUSER
SD SD	SMOKE DETECTOR SUPPLY AIR DIFFUSER	TAG XXX AIRFLOW #,###	AIR DEVICE TAG (RE
D-1	SCHEMATIC DESIGN (SUBMISSION1)	##/##	RECTANGULAR DUCT
D-2 DPR	SCHEMATIC DESIGN (SUBMISSION2) SMOKE DAMPER	#ø	ROUND/SPIRAL DUC
DR	SMOKE DAMPER (RETURN)	##/## Φ	FLAT OVAL DUCT
SDS SEN	SMOKE DAMPER (SUPPLY) SENSIBLE HEAT	SA	SUPPLY AIR DUCT
SF SG	SUPPLY FAN SUPPLY AIR GRILLE		RETURN AIR DUCT
SH	STEAM HUMIDIFIER		EXHAUST AIR DUCT
SHC SI	STEAM HEATING COIL SQUARE INCHES		
SP	STATIC PRESSURE		OUTSIDE AIR DUCT
SP GR SPD	SPECIFIC GRAVITY SUPPLY PROCESS AND DISTRIBUTION		TRANSFER AIR DUCT
SPRV		CAE	COMBUSTION AIR EX
SQ FT		CAI	COMBUSTION AIR IN
SR SS	SUPPLY AIR REGISTER STAINLESS STEEL	SA T	SA AIR DUCT TURNI
ST SV	STEAM TRAP STEAM PRESSURE REDUCING VALVE	×SA	SA AIR DUCT TURNI
ŚŴHX FAB		RA	RA AIR DUCT TURNI
TD TP	TEMPERATURE DIFFERENCE		RA AIR DUCT TURNI
TSP	TOTAL STATIC PRESSURE		EA AIR DUCT TURNI
FSTAT FU	THERMOSTAT TERMINAL UNIT		EA AIR DUCT TURNI
		<u>E(XXX)</u>	EXISTING DUCT - (X
		<u>+_D(XXX)</u> _+	DUCT TO BE DEMOLI
			1

7

SHEET NAME
MECHANICAL NOTES AND LEGEND
HVAC DEMOLITION - BASEMENT
HVAC DEMOLITION - SECOND FLOOR
HVAC DEMOLITION - ATTIC
HVAC DEMOLITION - THIRD FLOOR
HVAC DEMOLITION - THIRD FLOOR HYDRONICS
HVAC PLAN - BASEMENT
HVAC PLAN - SECOND FLOOR
HVAC PLAN - THIRD FLOOR
HVAC PLAN - ATTIC
HVAC PLAN - ROOF
HYDRONICS PLAN - BASEMENT
HYDRONICS PLAN - SECOND FLOOR
HYDRONICS PLAN - THIRD FLOOR
MECHANICAL SECTIONS
MECHANICAL DETAILS
MECHANICAL DETAILS
MECHANICAL DETAILS
MECHANICAL DETAILS
MECHANICAL CONTROLS
MECHANICAL CONTROLS
MECHANICAL CONTROLS
MECHANICAL SCHEDULES

(#)	TAGGED NOTE DESIGNATOR	0	PIPE ELBOW TUR
	REVISION TRIANGLE		
ROOM NAME	ROOM TAG		PIPE TEE; CONNE
<u>rm #</u> tag <u>XXX-#</u>	EQUIPMENT TAG	Y	PIPE TEE; CONNE
	POINT OF CONNECTION / CONNECT TO EXISTING	т	PIPE CAP
•			BOILER FEEDWA
\$	POINT OF DEMOLITION	BFW	
		CAI/E	COMBUSTION AIF
		CBS/R	
		CD	
		—CHWS/R—	CHILLED WATER
		CST	CLEAN STEAM PI
		—CWS/R—	CONDENSER WA
	SUPPLY AIR DIFFUSER	DTS/R	DUAL TEMP. WAT
	RETURN AIR DIFFUSER	GS/R	GEOTHERMAL W
	EXHAUST AIR DIFFUSER	HPC	HIGH PRESSURE
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT	—HPS(#)—	HIGH PRESSURE
	SIDEWALL DIFFUSER/GRILLE	—HPS/R—	HEAT PUMP WAT
\bowtie	SIDEWALL DIFFUSER/GRILLE	—HRS/R—	HEAT RECOVERY
TAG XXX AIRFLOW #,###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)	—HWS/R—	HEATING WATER
##/##	RECTANGULAR DUCT	LPC	LOW PRESSURE
#ø	ROUND/SPIRAL DUCT	—LPS(#)—	LOW PRESSURE
##/## Φ	FLAT OVAL DUCT	MPC	MEDIUM PRESSU
SA	SUPPLY AIR DUCT	MPS(#)	MEDIUM PRESSU
RA	RETURN AIR DUCT	SPD	STEAM CONDENS
EA	EXHAUST AIR DUCT		STEAM VENT PIP
+ OA +	OUTSIDE AIR DUCT	D(XXX)	PIPING TO BE DE
	TRANSFER AIR DUCT	—E(XXX)—	EXISTING PIPING
	COMBUSTION AIR EXHAUST DUCT	—A(XXX)—	ABANDONED IN F
	COMBUSTION AIR INTAKE DUCT		TWO-WAY CONTR
	SA AIR DUCT TURNING UP		THREE-WAY CONT
	SA AIR DUCT TURNING DOWN		AUTOMATIC AIR V
	RA AIR DUCT TURNING UP		MANUAL AIR VENT
			BALL VALVE
	EA AIR DUCT TURNING DOWN		BUTTERFLY VALVE
E(XXX) +	EXISTING DUCT - (XXX) DENOTES SYSTEM		
<u>+_D(XXX)</u>	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM		STRAINER
	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM		MANUAL ISOLATIC
23	MITERED ELBOW WITH TURNING VANES		GLOBE VALVE
++++++	FLEXIBLE DUCT		OS&Y (GATE) VALV
1	THERMOSTAT		PRESSURE REDUC
Ţ	TEMPERATURE SENSOR		AUTO-FLOW CONT
θ	HUMIDITY SENSOR		CHECK VALVE
©	CARBON DIOXIDE SENSOR		DOUBLE CHECK VA
t)	TEMPERATURE & CARBON DIOXIDE SENSOR		FLEXIBLE PIPE CO
VERT. HORIZ.	MANUAL BALANCING/VOLUME DAMPER		FLOW METER (VEN
	MOTORIZED DAMPER	Įi	PIPING UNION
VERT. HORIZ.		Fs	FLOW SWITCH
VERT. HORIZ.	FIRE DAMPER		1
VERT. HORIZ.	SMOKE DAMPER	Ps	PRESSURE SWTICH
VERT. HORIZ.			PRESSURE SWTICH
VERT. HORIZ.	SMOKE DAMPER		

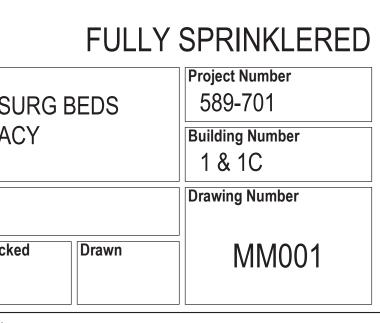
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ment	Approved:		Location WICHITA, KANSAS	
epartment rans Affairs			Issue Date Checked	
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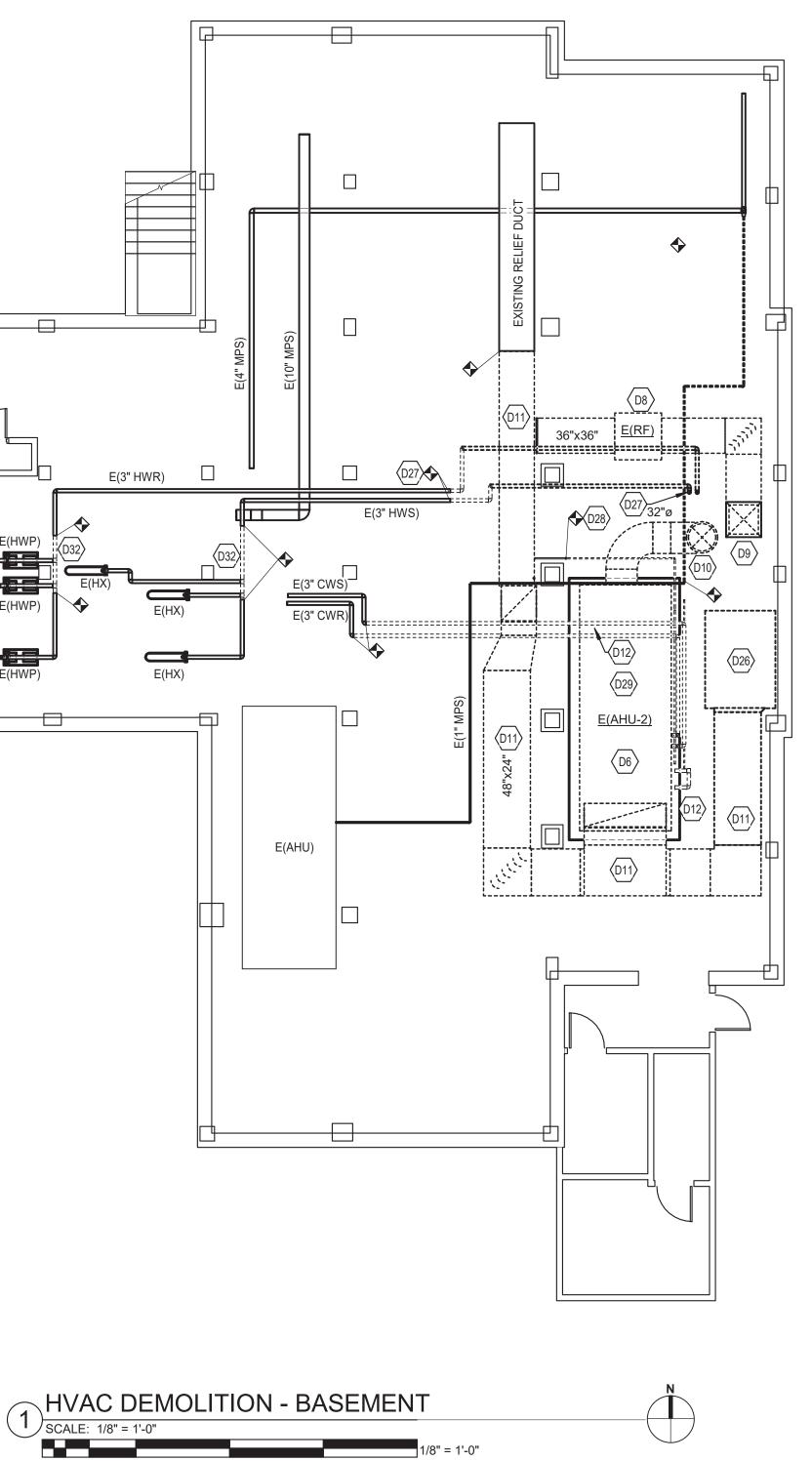
F

-0 	PIPE ELBOW TURNING UP	-	
	PIPE TEE; CONNECTION ON TOP	-	
	PIPE TEE; CONNECTION ON BOTTOM	-	
	PIPE CAP	-	
	BOILER FEEDWATER	-	
E	COMBUSTION AIR INTAKE/EXHAUST	-	
∟ R	CHILLED BEAM SUPPLY/RETURN	-	
		-	
·/D	CHILLED WATER SUPPLY/RETURN	-	
5/R—		-	
·		-	
/R		-	
′R—		-	
۲ <u> </u>		-	
<u> </u>		-	
#)—	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE	-	
′R—		-	
′R—		-	
/R—	HEATING WATER SUPPLY/RETURN	-	
<u> </u>	LOW PRESSURE STEAM CONDENSATE	-	
#)—	LOW PRESSURE STEAM; (#) DENOTES PRESSURE	-	
	MEDIUM PRESSURE STEAM RETURN	-	
#)—	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE	-	
)	STEAM CONDENSATE PUMPED DISCHARGE	-	
	STEAM VENT PIPING	-	
X) [.]	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM	-	
X)—	EXISTING PIPING - (XXX) DENOTES SYSTEM	-	
X)—	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM	-	
	TWO-WAY CONTROL VALVE	-	
]	THREE-WAY CONTROL VALVE	-	
	AUTOMATIC AIR VENT (AAV)	-	
	MANUAL AIR VENT (MAV)	-	
	MANUAL BALANCING VALVE (BV)	-	
	BALL VALVE	-	
<u> </u>	BUTTERFLY VALVE	-	
	TRIPLE DUTY VALVE (TDV)	_	
 	STRAINER	_	
	MANUAL ISOLATION VALVE	_	
	GLOBE VALVE	_	
<u> </u>	OS&Y (GATE) VALVE		
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)		
	AUTO-FLOW CONTROL VALVE		
	CHECK VALVE	_	
1 -	DOUBLE CHECK VALVE ASSEMBLY	_	
	FLEXIBLE PIPE CONNECTION		
	FLOW METER (VENTURI)		
	PIPING UNION		
	FLOW SWITCH	-	
	PRESSURE SWTICH	•	
	TAMPER SWITCH		
	THERMOMETER		
		-	



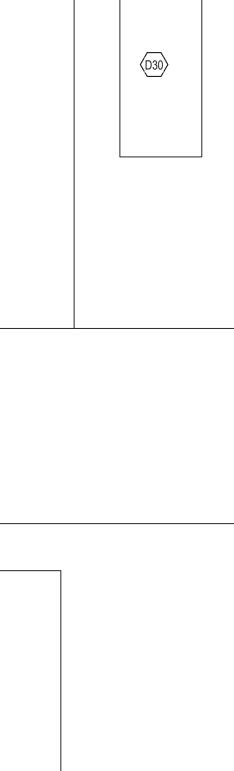
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⁶¹ / ₂ MWY/ste Consultant: CMTA CONS	ISULTING ENGIN TING STREET T, KY 40059

0 2' 4'



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7

TEMPORARY AHU

CONTRACTOR.

PROVIDE TEMPORARY AHU, SIZED AT

OPERATION AND FINAL FILTRATION. PROVIDE TRANSFORMER AS REQUIED TO

UTILIZE 208V/3P POWER FROM BUILDING. PROVIDE ALL FLEXIBLE DUCTING AND 3"

PIPING FOR CONNECTION INTO BUILDING.

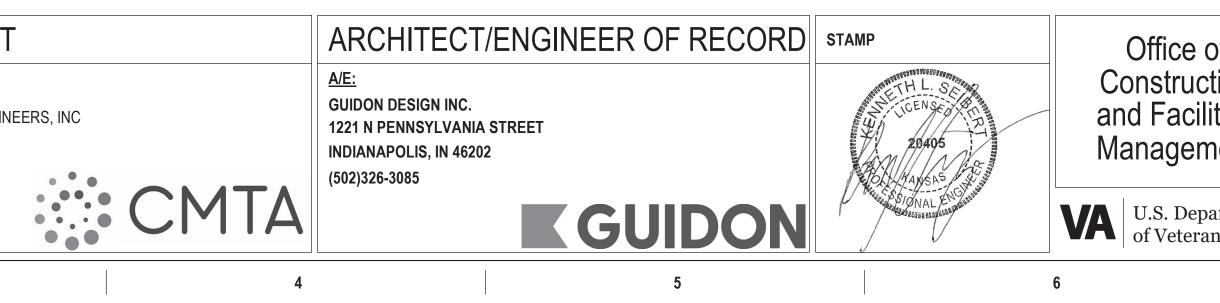
UTILIZE EXISTING AREAWAY FOR DUCT AND PIPING INTO BUILDING. CONTRACTOR

MAY PROVIDE PACKAGE COOLING UNIT

POWER REQUIREMENTS WITH ELECTRICAL

AND SHALL COORDINATE ADDITIONAL

10,000 CFM, CHILLED WATER COOLING VAV



8

- IN ADVANCE.

- DEMOLITION PHASE.

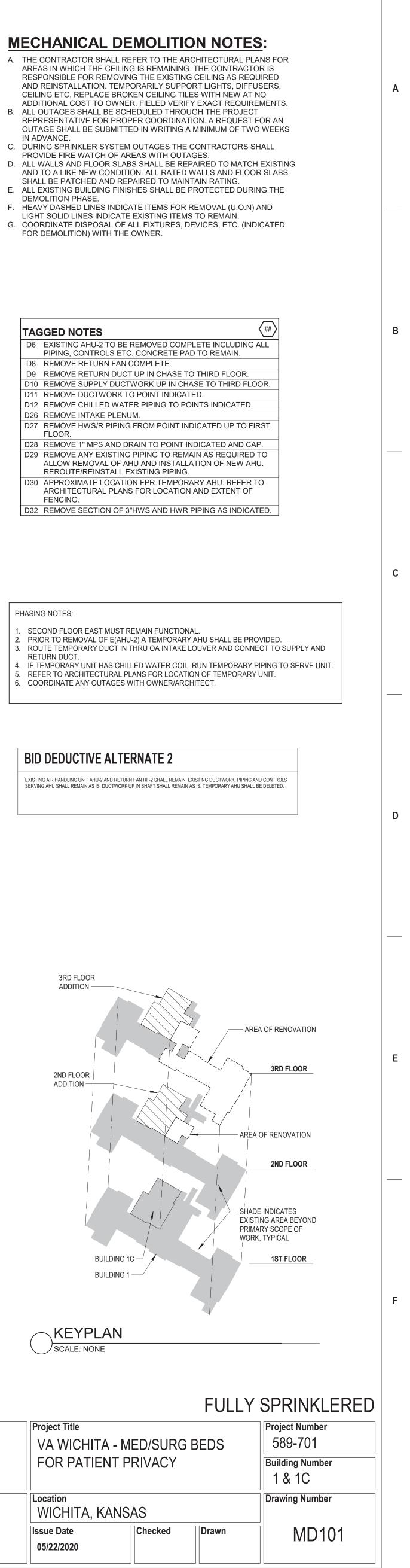
TAGGED NOTES

PIPING, CONTROLS ETC. CONCR
REMOVE RETURN FAN COMPLET
REMOVE RETURN DUCT UP IN CH
REMOVE SUPPLY DUCTWORK UF
REMOVE DUCTWORK TO POINT I
REMOVE CHILLED WATER PIPING
REMOVE INTAKE PLENUM.
REMOVE HWS/R PIPING FROM PO
FLOOR.
REMOVE 1" MPS AND DRAIN TO F
REMOVE ANY EXISTING PIPING T
ALLOW REMOVAL OF AHU AND IN
REROUTE/REINSTALL EXISTING F
APPROXIMATE LOCATION FPR TE
ARCHITECTURAL PLANS FOR LO
FENCING.
REMOVE SECTION OF 3"HWS ANI

PHASING NOTES:

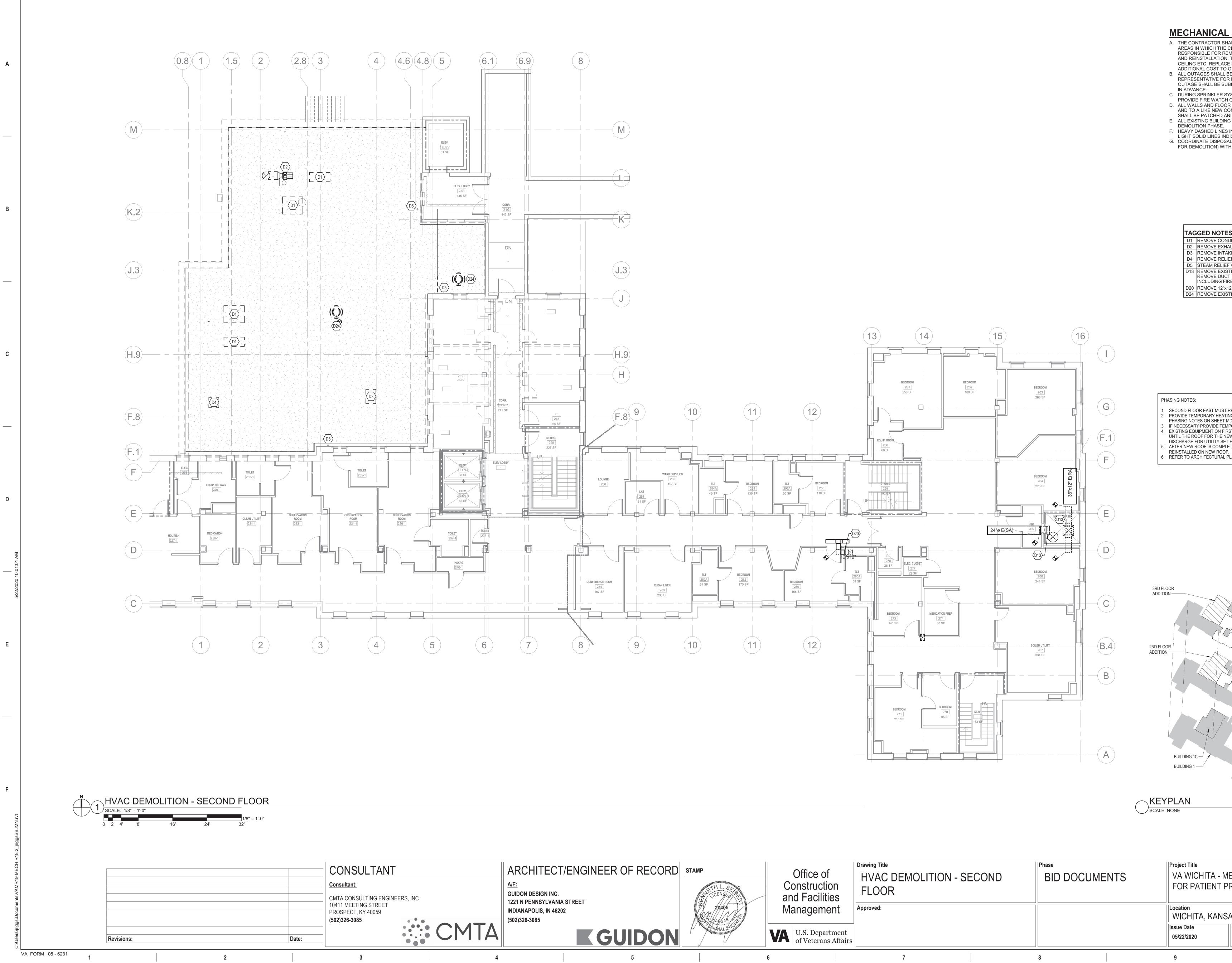
RETURN DUCT.

BID DEDUCTIVE ALTERNATE 2



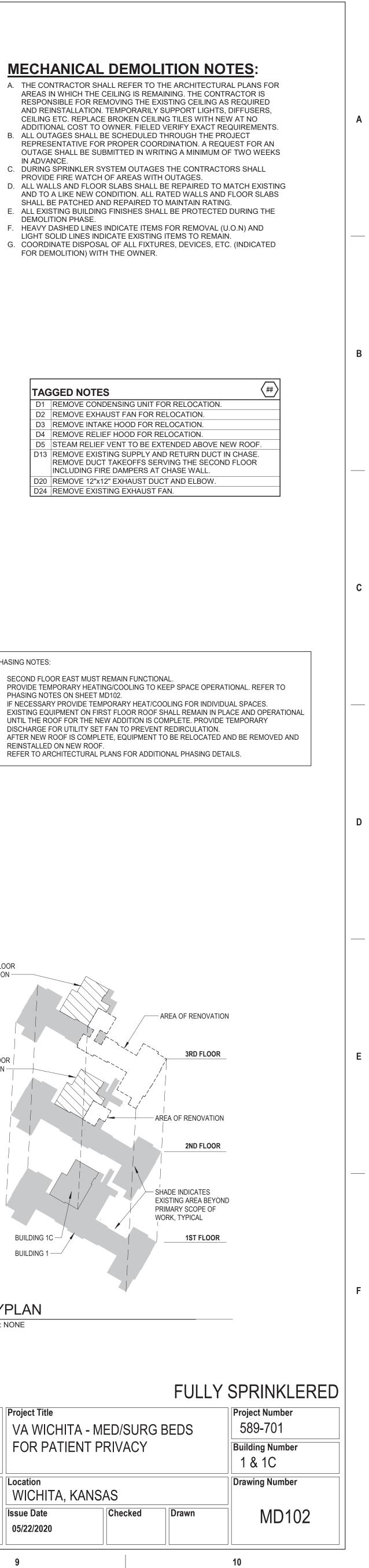
KEYPLAN SCALE: NONE

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ment	Approved:		Location WICHITA, KANSAS
partment ans Affairs			Issue Date 05/22/2020
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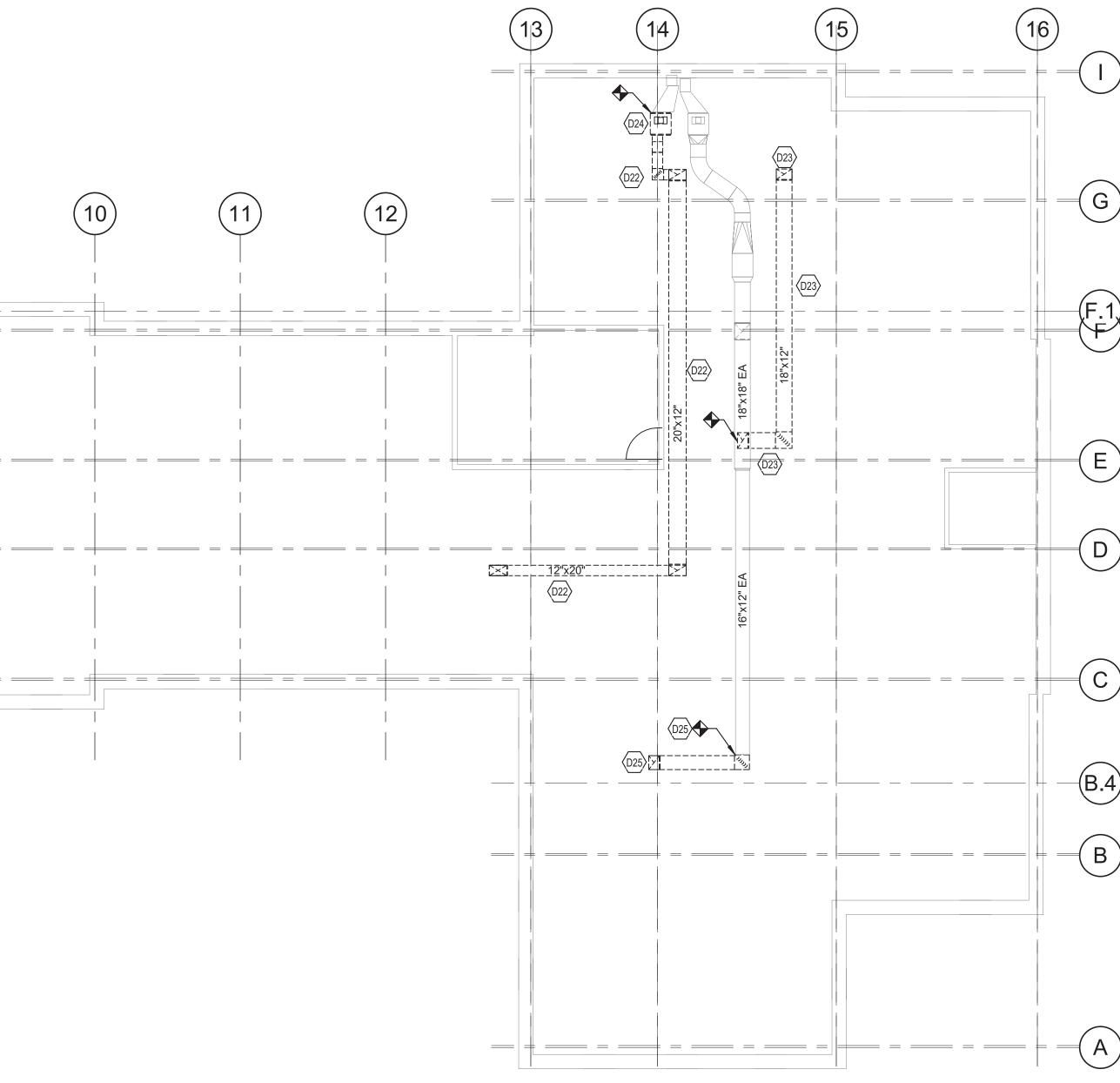
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- DEMOLITION PHASE.



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				1) SCALE: 1/8" = 1'-0"
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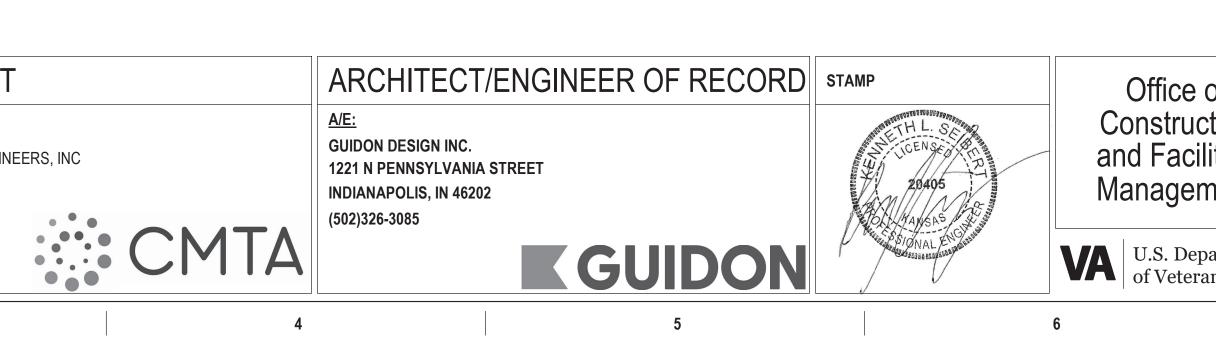
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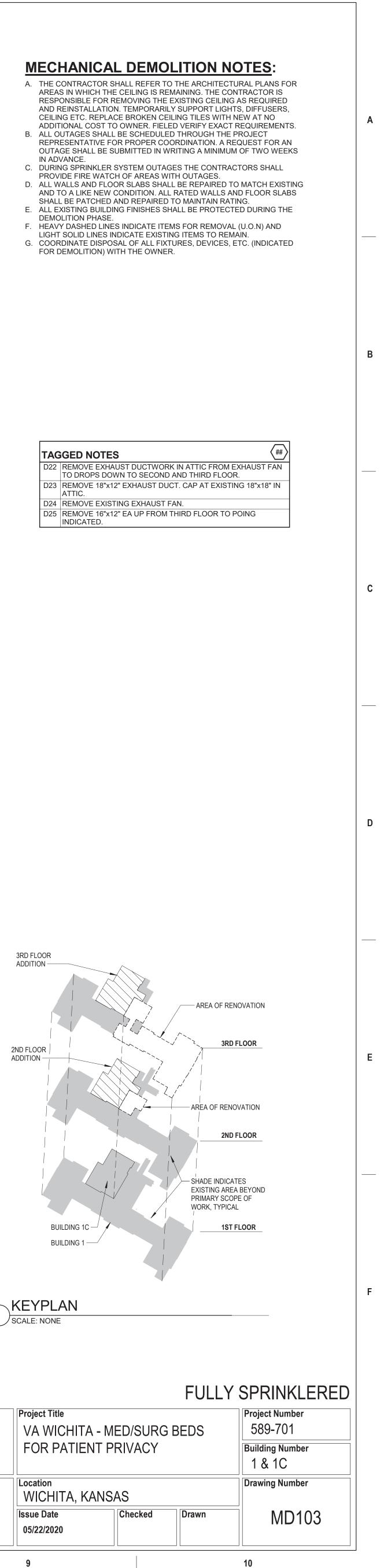
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LITION - ATTIC



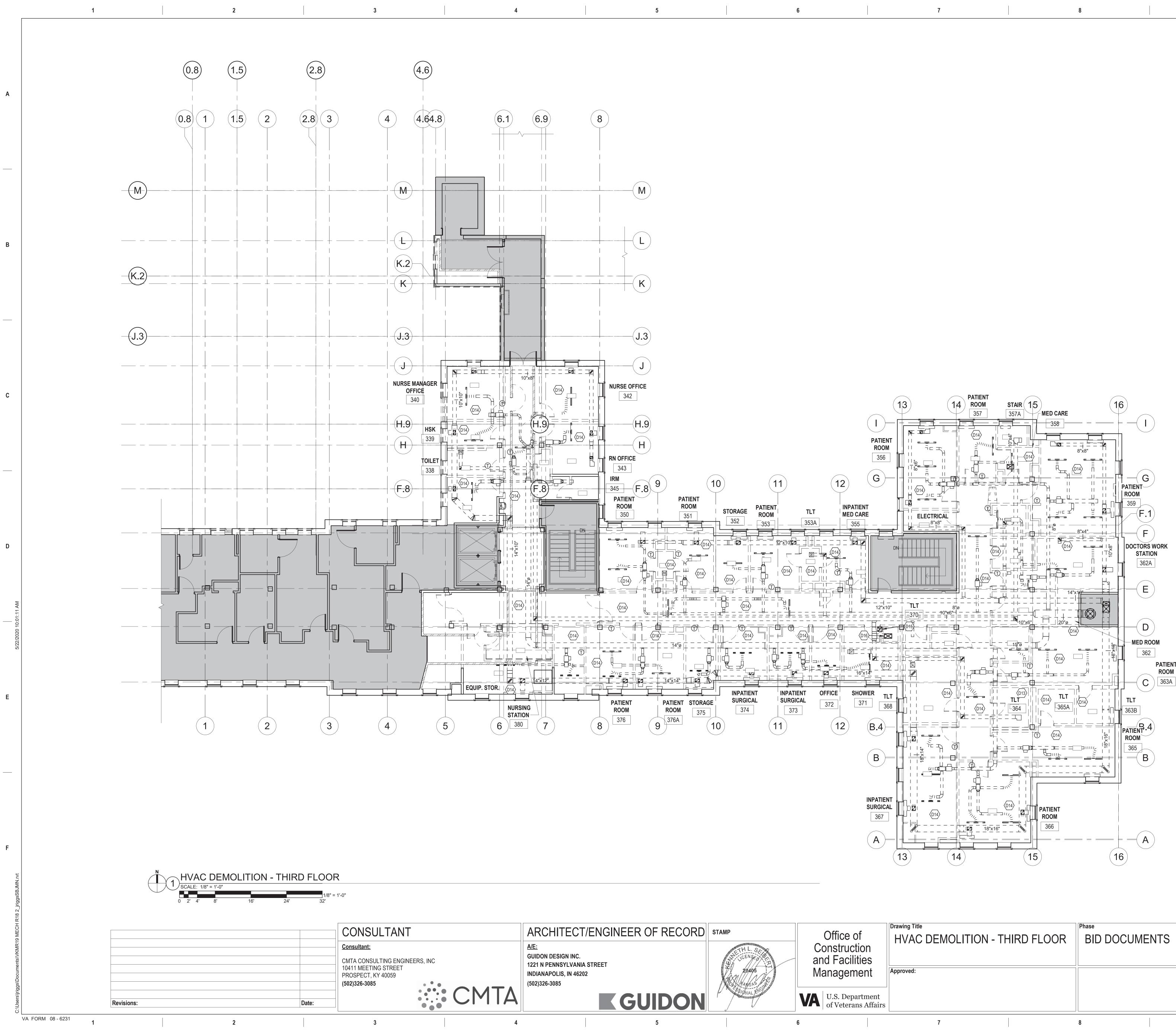
	5	6	7	8	9	
					MECHA	NICAL DEMOLITION NO
					AREAS IN V RESPONSIE AND REINS CEILING ET ADDITIONA B. ALL OUTAG REPRESEN	RACTOR SHALL REFER TO THE ARCHITECTU WHICH THE CEILING IS REMAINING. THE CONT BLE FOR REMOVING THE EXISTING CEILING A STALLATION. TEMPORARILY SUPPORT LIGHTS TC. REPLACE BROKEN CEILING TILES WITH NE AL COST TO OWNER. FIELED VERIFY EXACT R GES SHALL BE SCHEDULED THROUGH THE PE NTATIVE FOR PROPER COORDINATION. A REC HALL BE SUBMITTED IN WRITING A MINIMUM (
					C. DURING SP PROVIDE F	PRINKLER SYSTEM OUTAGES THE CONTRACT TRE WATCH OF AREAS WITH OUTAGES. AND FLOOR SLABS SHALL BE REPAIRED TO
					AND TO A L SHALL BE F	LIKE NEW CONDITION. ALL RATED WALLS AND PATCHED AND REPAIRED TO MAINTAIN RATIN NG BUILDING FINISHES SHALL BE PROTECTE
					DEMOLITIO F. HEAVY DAS	

	GED NOTES
D22	REMOVE EXHAUST DUC TO DROPS DOWN TO SE
D23	REMOVE 18"x12" EXHAU

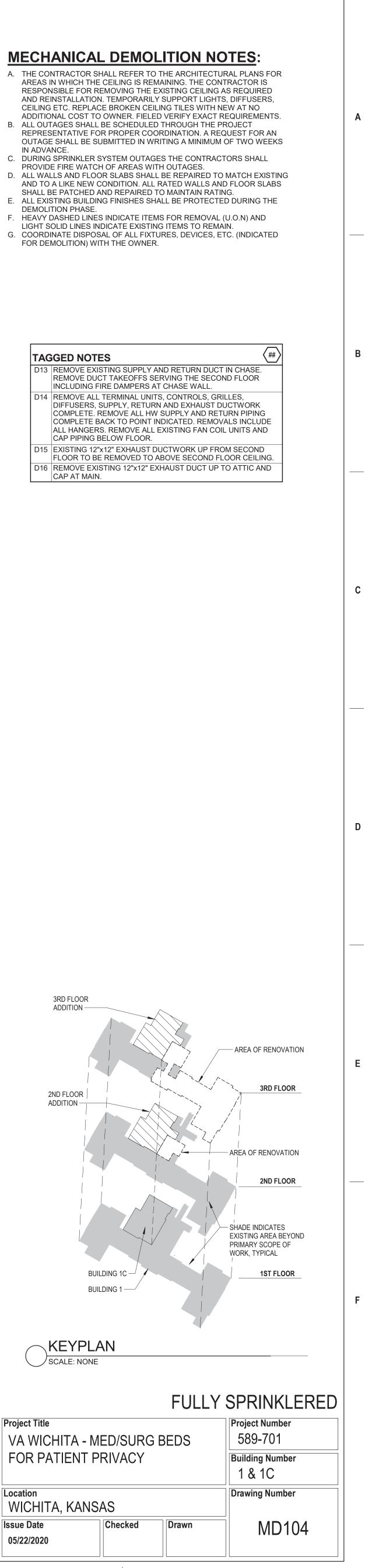


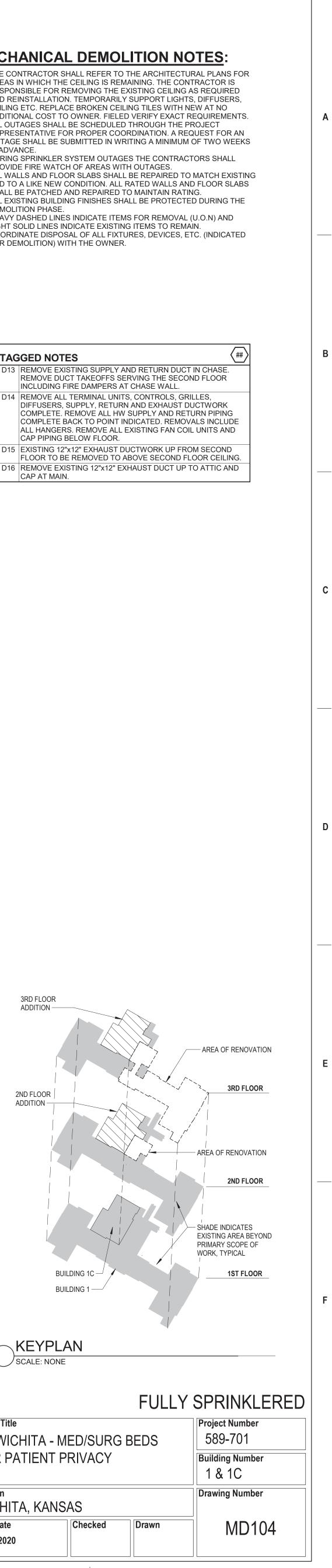
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ement	Approved:				Location WICHITA, KANSA	٩S
epartment rans Affairs					Issue Date 05/22/2020	Checked
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- IN ADVANCE.
- DEMOLITION PHASE.





e of Iction cilities	Drawing Title HVAC DEMOLITION - THIRD FLOOR	Phase BID DOCUMENTS	Project Title VA WICHITA - MED/SU FOR PATIENT PRIVAC
ement epartment rans Affairs	Approved:		Location WICHITA, KANSAS Issue Date 05/22/2020
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