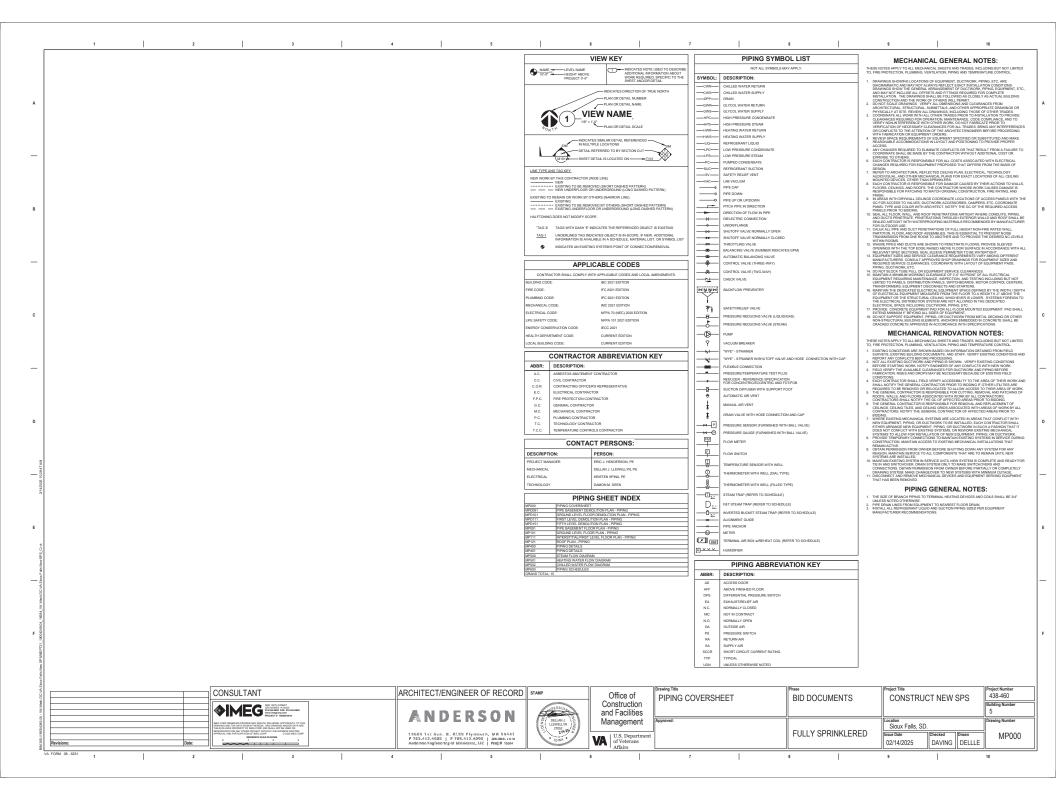
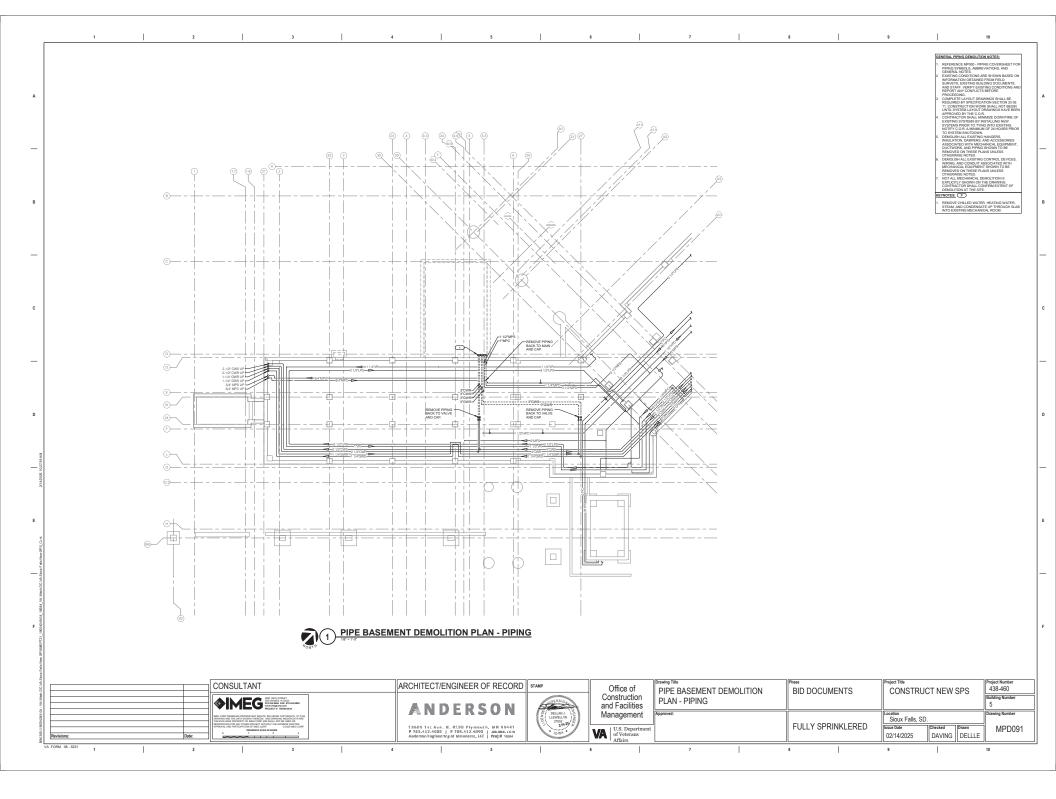
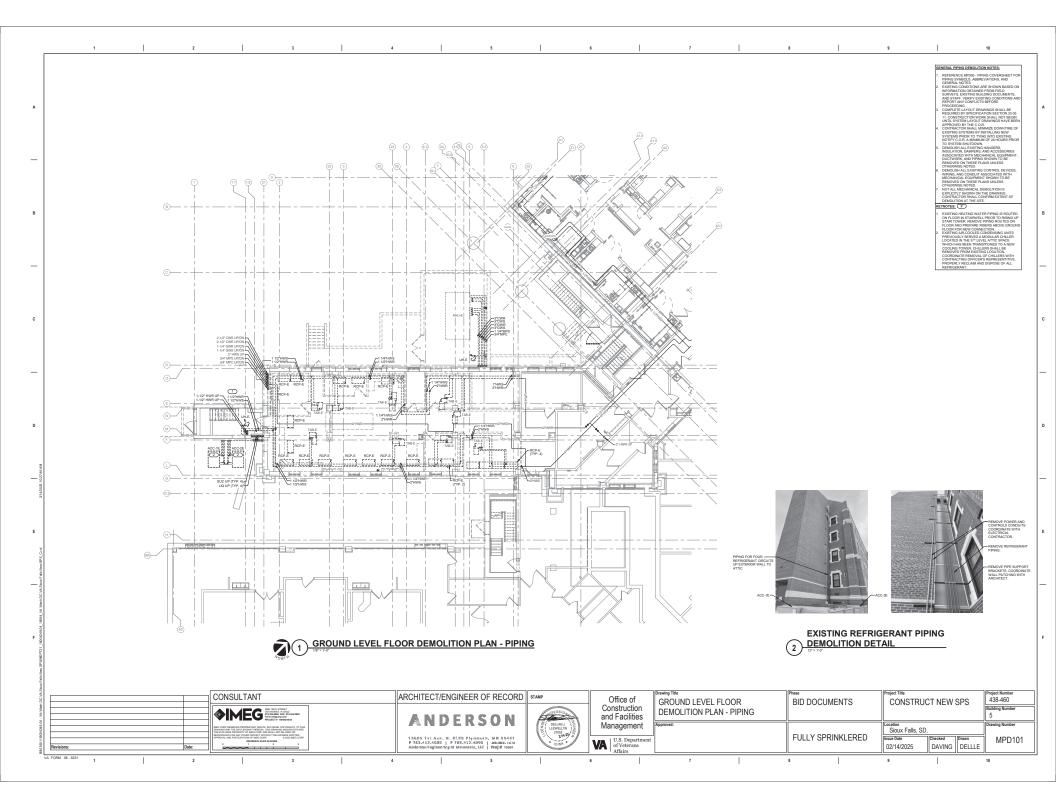
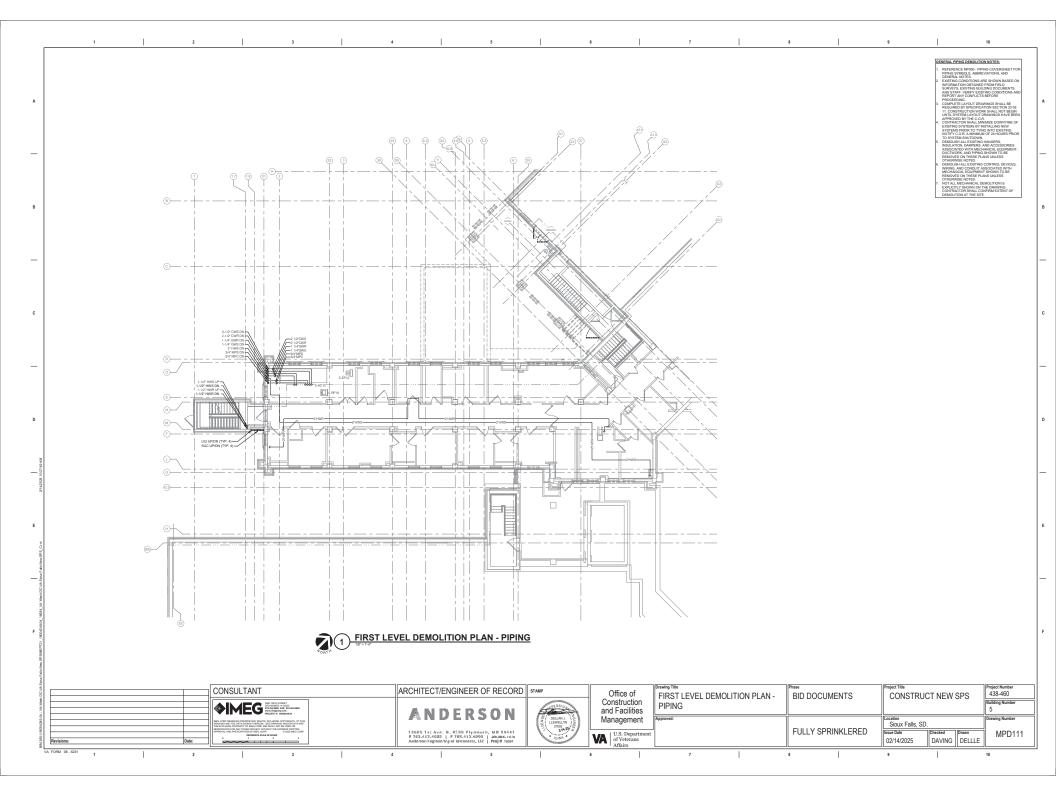


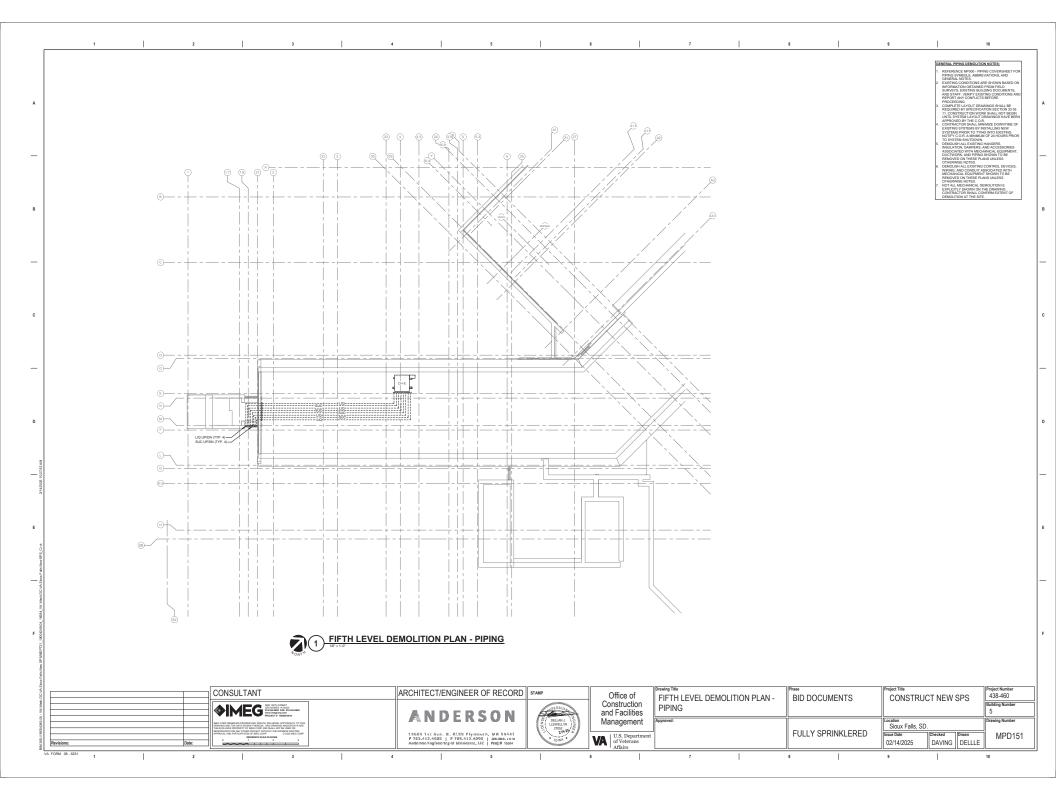
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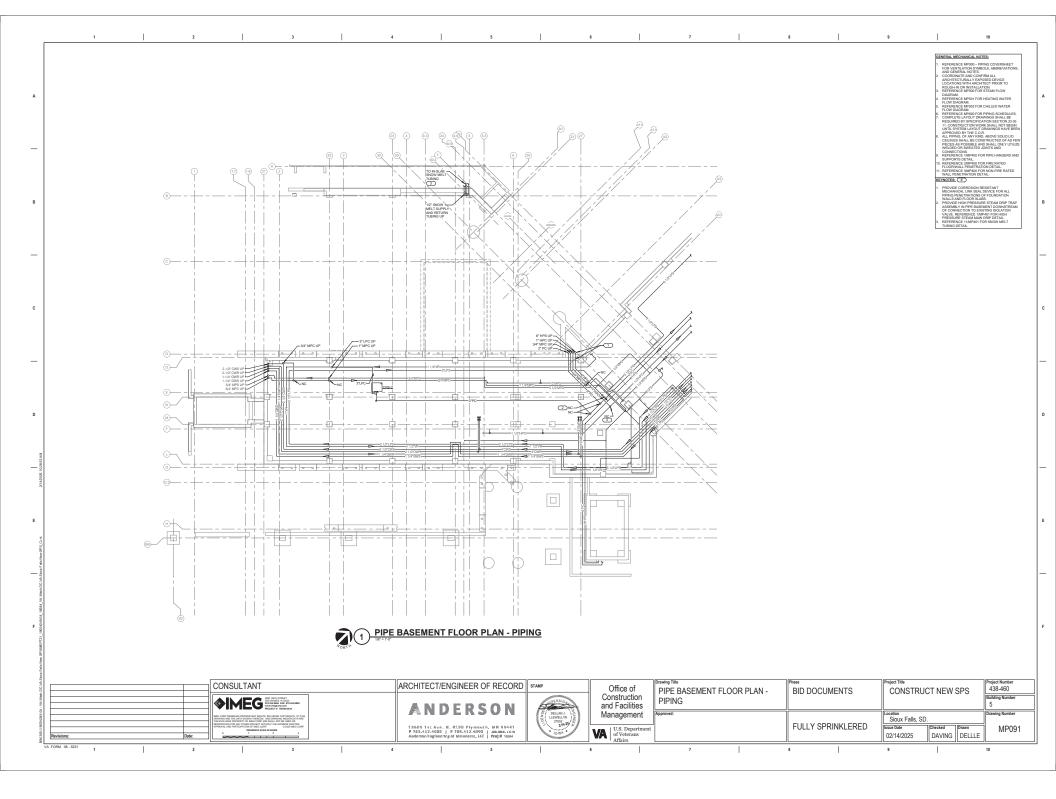


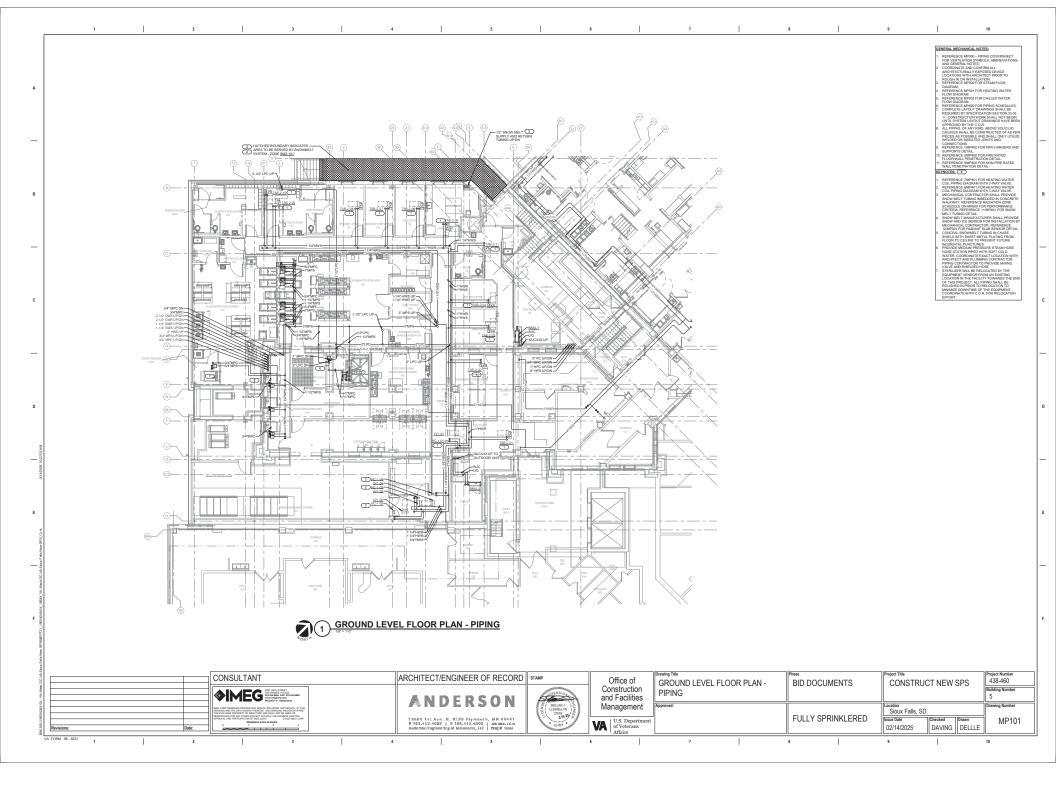


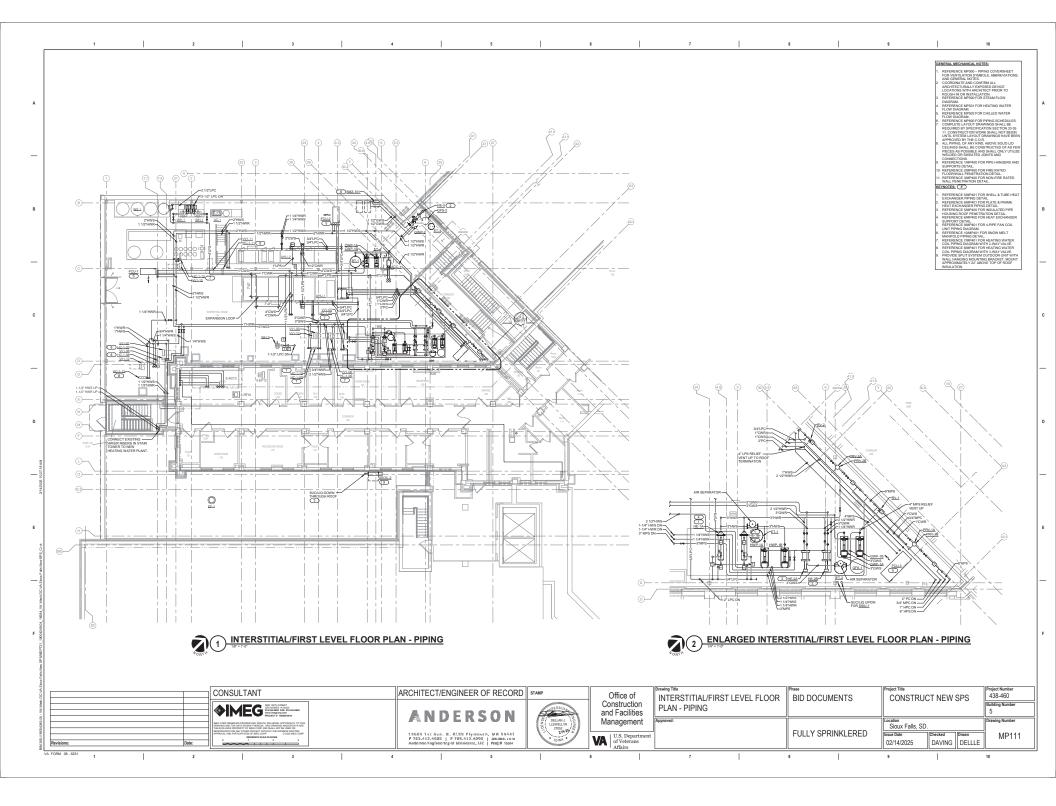


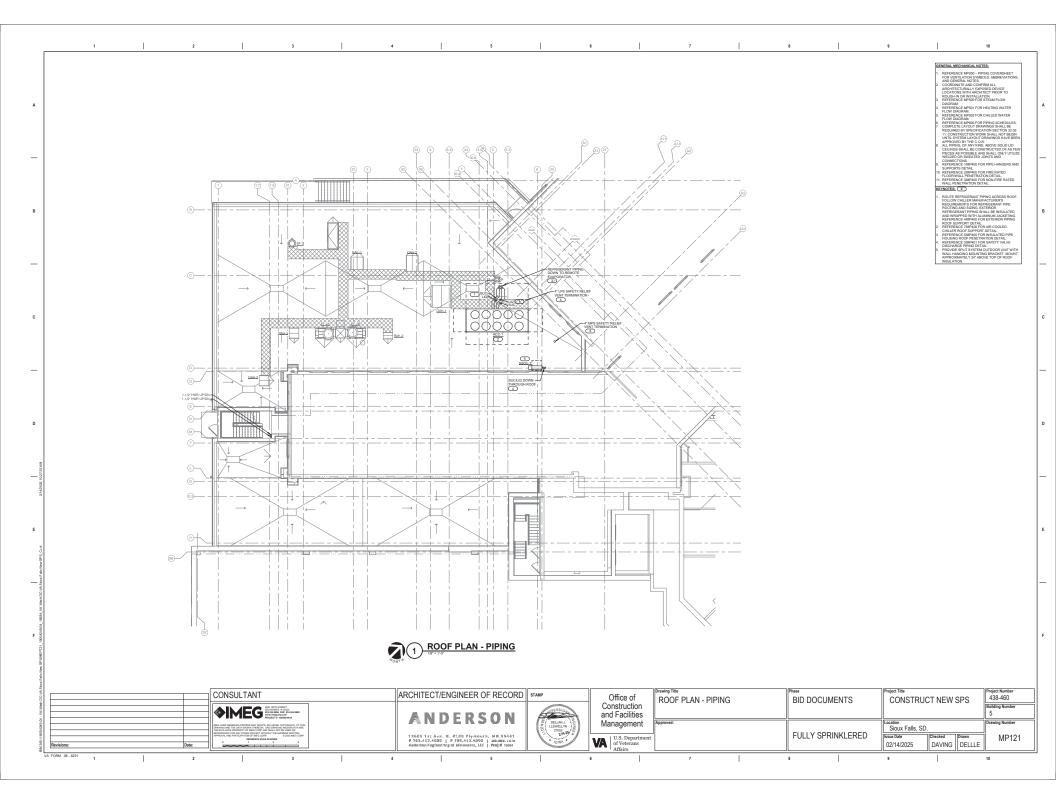


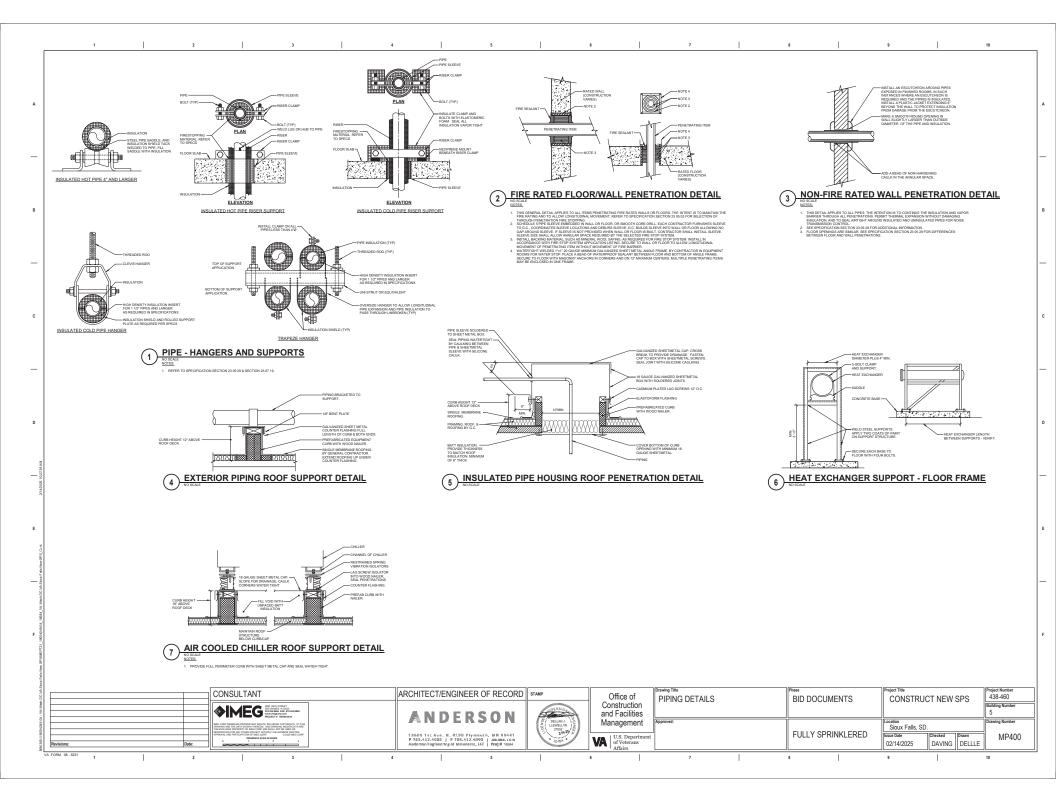


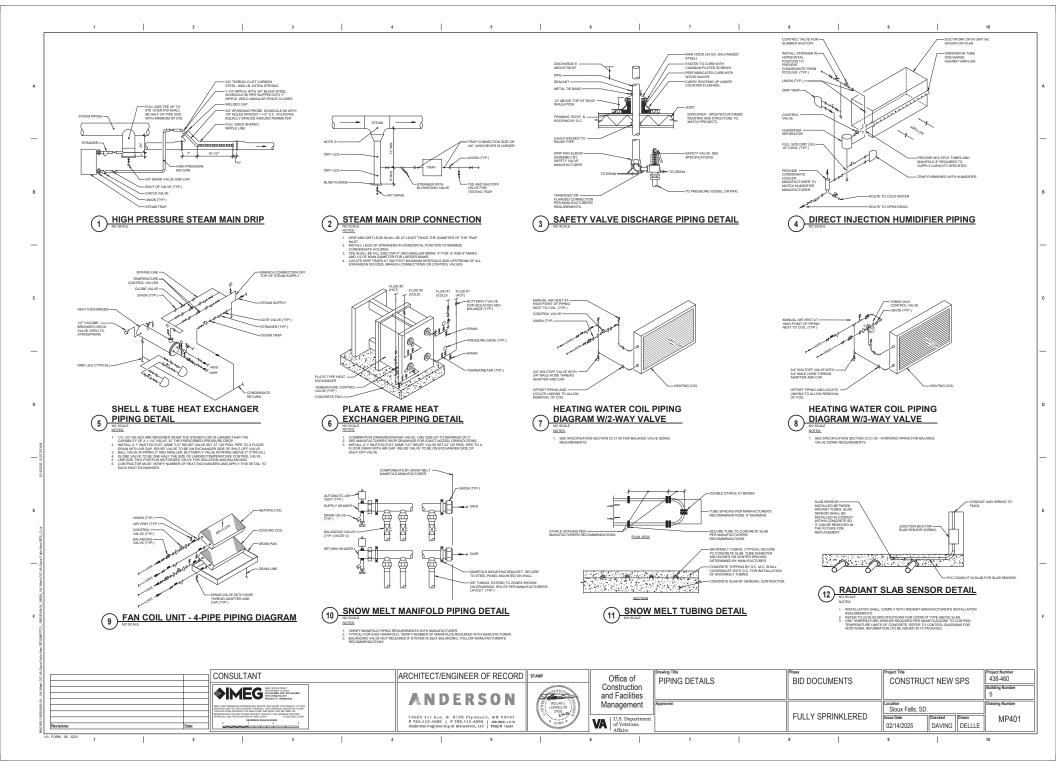


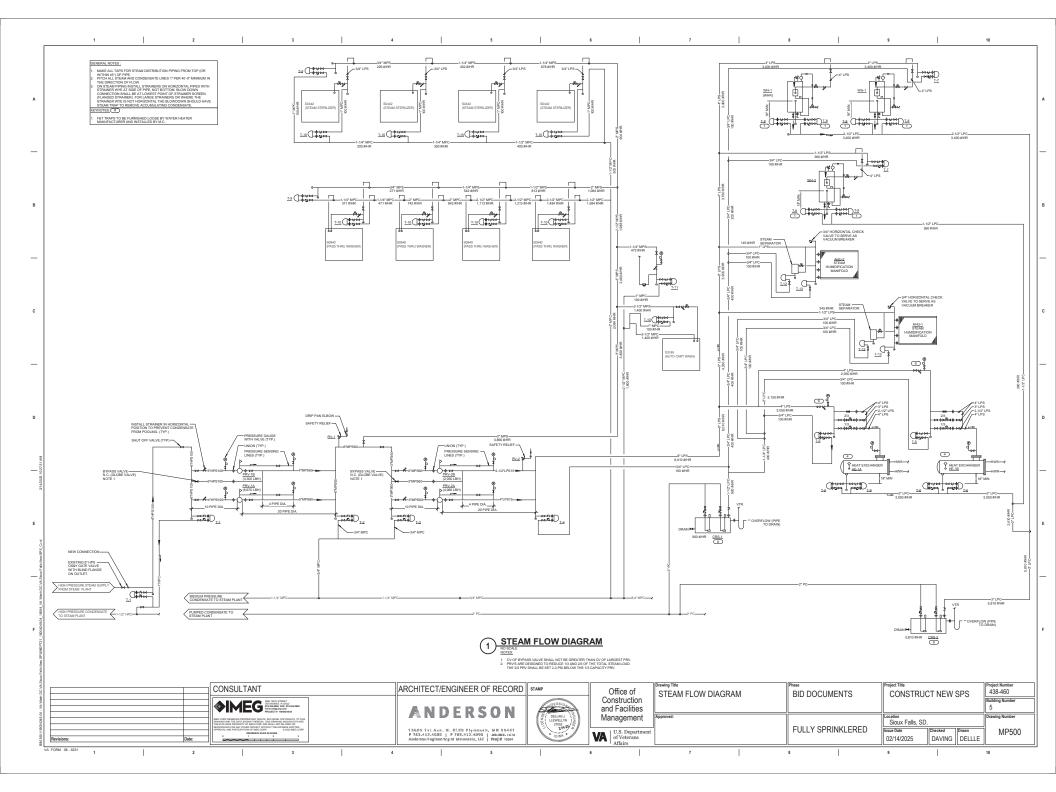


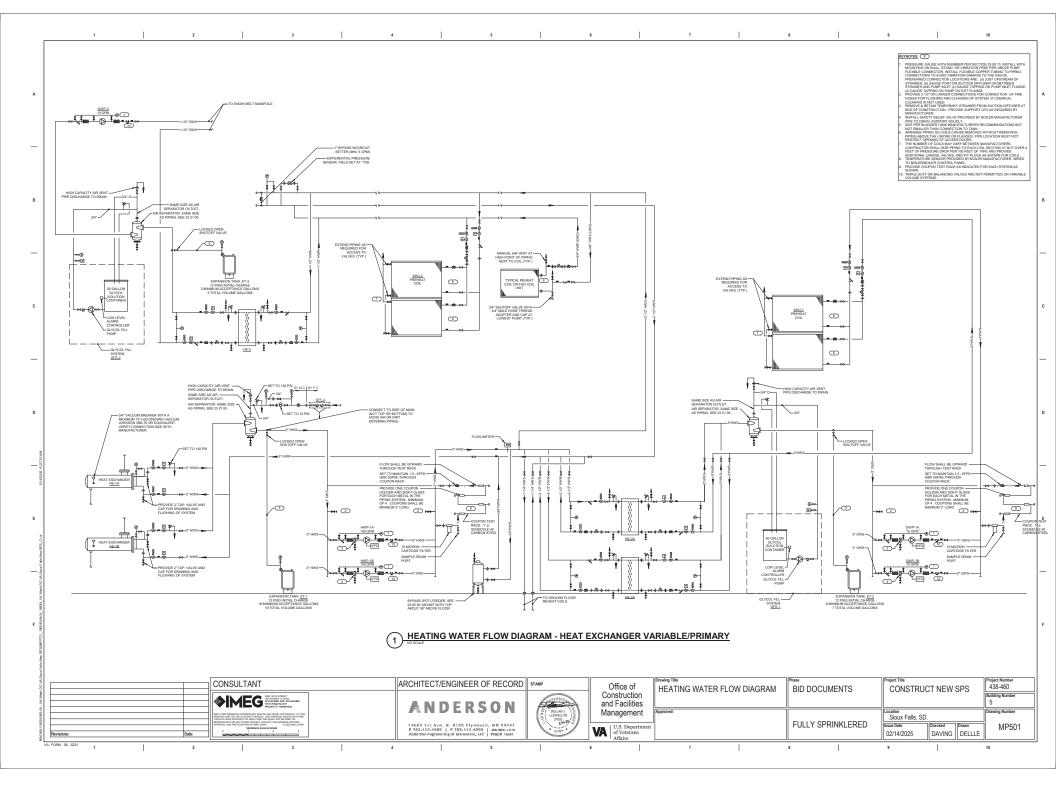


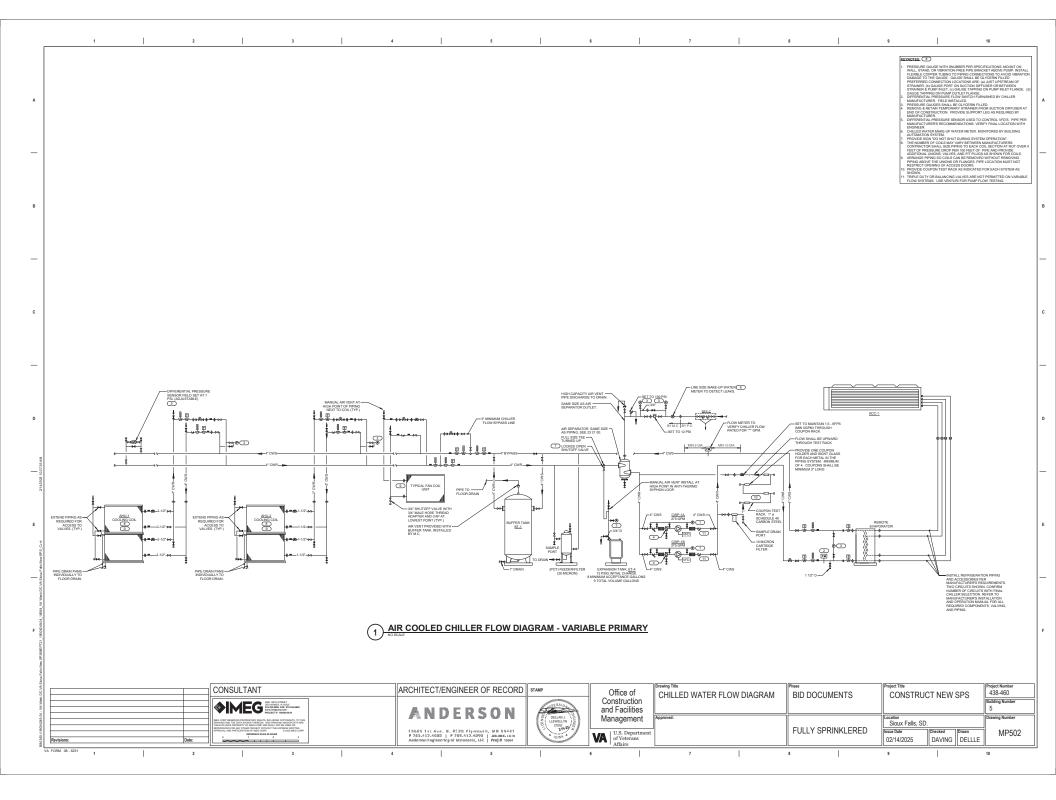




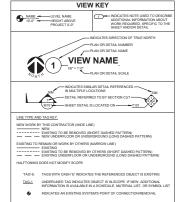








1 2	3	4 5	6	7	8	9 10
		i i	RELIEF VALVE SCHEDULE		PRESSURE REDUCING VALVE SCHEDULE	=
		5	OTES: ASME CODE STAMPED VALVE PROVIDED WITH PRV TO F	ELIEV MAXIMUM COMBINED CAPACITY OF STATION.	NOTES: 1.COMPLETE STATION TO INCLUDE SAFETY VALVE, BYPASS, STEAM TRAPS, ETC. 2. REFER TO SPECIFICATION SECTION 23 22 13 FOR ADDITIONAL INFORMATION.	REFER TO STEAM AND CONDENSATE FLOW DIAGRAM FOR ADDITIONAL REQUIREMENTS.
			PROVIDE WITH DIPPER BELOW No.	LET ORIFICE	TAG NAME	OUTLET PRESSURE PS VALVE SIZE MANUFACTURER MODEL NOTES 60 2" THERMAPLO JW NOTES 1.2 60 1.14" THERMAPLO JW NOTES 1.2 15 1.12" THERMAPLO JW NOTES 1.2 15 1.14" THERMAPLO JW NOTES 1.2 1.14" THERMAPLO JW NOTES 1.14" THERMAPLO JW NOTES 1.14" THERMAPLO JW NOTES 1.14" THERMAPLO JW THER
		HEAT EXCHANGER SCHEDULE - STEAM TO WA	ATER	HEAT EX	PRV-28 SPS MEDIUM PRESSURE STEAM 2050 60 CHANGER SCHEDULE - PLATE AND FRAM	
		NOTES: 1. STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CON 2. ONE HEAT EXCHANGER IS 100% REDUNDANT. WATER STEAM INDIE 11 Learner		NOTES: 1.COLD SIDE PER 2.COLD SIDE PER	RFORMANCE BASED ON 30% PROPYLENE GLYCOL. RFORMANCE BASED ON 50% PROPYLENE GLYCOL. HOT SIDE COLD SIDE	PLATE SUFE
		2/08	TACC FOULING T	HE-2B GLYCOL	WP.D. WF.D. WF.D	RATING UK FARE SUE FARE SU
				ETURN STATION SCHEDULE		
			2.PROVIDE WITH GAUGE GLASS, 3.PROVIDE HARD WIRED CONNE		ESSURE GAUGE, LIFTING EYES, NEMA 1 HIGH LEVEL FLOAT SWITCH, AND SUCTION 1 ELECTRICAL	
			TAG NAME CRS-1 SPS LOW PRESSURE S CRS-2 SPS LOW PRESSURE S	CONFIGURATION (NOTE 1) CONDENSATE GPM CONFIGURATION (NOTE 1) F TOTAL GA CEAM DUPLEX SS10 210 22 CEAM DUPLEX SS10 210 210 22 CEAM DUPLEX SS10 210 210 210 210 210 210 210 210 210 2	CEEVER DISCHARGE NO. OF HP NO OF POWER DISCHARGE NOTE A NOTE	NOTE CONTROLLER STARTER
		AIR COOLED CHILLER SCHEDULE				
		1.SEE SPECIFICATION SECTION 23 64 30 FOR ADDITIONAL REQUIREMENTS. CAPACITY/PERFOR MIN. EER	AT % LOAD	<u> </u>	ELECTRICAL MAX. DIM	ENSIONS WEIGHT VIBRATION ISOLATION
		TAG	AT % LOAD I RAND WATER S AS LISTED. WILLIAM PRESSURE DRUP FOUR F	NO. 0F NUMBER OF COMPRESSOR POWER TYPE CONNECTIONS VOLTAGE 1 480 V	DISCONNECT CONTROLLER: STARTER BY TYPE BY TYPE	DTN HEIGHT DRY OPERATING TYPE DEFL. MANUFACTURER MODEL NOTES
	GLYCOL FEED SYSTEM		PUMP SCHEDULE			
	NOTES: 1. PACKAGE SYSTEM COMPLETE WITH STORAGE TANK, PLIMP, AND CONTROLS IN WATER SYSTEM, SYSTEM SHALL AUTOMATICALLY MAINTAIN PRESSURE IN THE F 2. PROVIDE CULTOFF AND LARMY TO STOP PLIMP IN CASE OF CUM LEVEL OR IN	VITH AUDIBLE AND VISUAL ALARM, DESIGNED TO ADD GLYCOL SOLUTION TO A CLOSED LOO IPING SYSTEM. H PRESSURE: PROVIDE DRY CONTACT FOR ALARM POINT TO DOC.	NOTES: 1.PROVIDE SHAFT GROUNDING AS REQUIRED IN T 2.PUMP SELECTED FOR 30% PROPYLENE GLYCOL 3.PUMP SELECTED FOR 50% PROPYLENE GLYCOL	HE MOTOR SPECIFICATION 23 05 13.		
		FIRMS SYSTEM. HE PRESSURE PROVIDE DRY CONTACT FOR ALARM POINT TO DOC. ABOVE FUMPING ASSEMBLY IN A STELL FRAME WITH LEGS. LID SHALL BE REMOVABLE FOR ABOVE THIN THE OWNER OF AUTOMATIC AIR VENION OF A STELL FY ALVE OR AUTOMATIC AIR VENION OF A STELL FRAME OF AUTOMATIC AIR VENION OF A STELL FRAME		DI MO ET MINIMIM	ELECTRICAL (NOTE 1) MAX. DIMENSI DISCONNECT STARTER MAX. DIMENSI	IONS ISOLATION
	TAIG SERVICE TAIN; PERIOD MAP VOLTAGE PHASES BY GFS-1 ANAL-1 PREHEAT COLL SO. 15 0.33 120 1:	CONTROLLER/ STARTER MODEL	TAG SERVICE GPM CWP-1A CHILLED WATER SYSTEM 275.	HEAD AT PUMP INLET IMPELLER BHP HP	CONTINUE CONTINUE	HEIGHT WEIGHT TYPE DEFL. MANUFACTURER MODEL NOTES
	GFS-1 AHU-I PREHEAT COLL 50.0 15 0.33 120 1 GFS-2 SNOW MELT SYSTEM 50.0 15 0.33 120 1	MFR MFR 5000 WESSELS GMP NOTES 1, 2, 3, 8.4 MFR MFR 5000 WESSELS GMP NOTES 1, 2, 3, 8.4	GWP-1A GLYCOL HEATING WATER SYSTEM 75.0 GWP-1B GLYCOL HEATING WATER SYSTEM 75.0 GWP-2 SNOW MELT SYSTEM 8.0	90.00 75.3 5 10.025 7.51 10 100.00 46.7 2° 9.500 3.38 7.5 100.00 45.3 1° 4.500 1.2 2	1602 480 3 EC F EC VFD 34.63" 14.63" 1602 480 3 EC F EC VFD 34.63" 14.63" 3600 480 3 EC F EC VFD 14" 14" 14"	17.25" 297 M3 34" B & G 1510 2ERIES MOTES 1 & 2 17.25" 297 M3 34" B & G 1510 SERIES MOTES 1 & 2 17.25" 297 M3 34" B & G 1510 SERIES MOTES 1 & 2 18" 60 H3 34" B & G 1.5A NOTES 1 & 3
					1652 480 3 EC F EC VFD 34.63* 14.63* 1652 480 3 EC F EC VFD 34.63* 14.63*	17.25' 297 M3 3/4" B & G 1510 SERIES NOTE 1 17.25' 297 M3 3/4" B & G 1510 SERIES NOTE 1
	PIPE INSULATION SCHEDULE (HYDRONIC) GENERAL NOTES: 1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS. VALUES LI	STED BELOW ARE BASED ON ASHRAE / IECC REQUIREMENTS.	FAN COIL UNIT SCHEDULE NOTES: 1. PROVIDE FAN COIL UNIT WITH CONDENSATE PUB.	P		
	GINERAN NOTES. 1. REPERT OF ITS SPECIFICATIONS FOR TYPE GESCRIPTIONS AND JACKETING REQUIREMENTS. VALUES IN 2. THE SECURITY OF THE SPECIFICATION OF THE SPEC	S, EXTERIOR, ATTICS, ETC) ON PIPE SYSTEMS WITH FLUID TEMPERATURES BELOW 60 DEG. F I "WITH STADGERED SEAMS. ASTM ERAULZ22	2. PROVIDE FAN COIL UNIT WITH WALL MOUNTED TO 3. FAN COIL UNIT SHALL BE EXPOSED CEILING HUNG 4. SCHEDULED LOADS ARE MINIMUM CAPACITIES BA 5.LISTED FLOW RATE IS MAXIMUM FOR BASIS OF DE	IERMOSTAT. I TYPE. SED ON ZONE HEATING AND COOLING DEMANDS. FAN COIL UNIT SIGN EQUIPMENT. COORDINATE BALANCE FLOW RATES WITH BA	T CAPACITIES MAY BE GREATER. ALANCING CONTRACTOR BASED ON PERFORMANCE OF FAN COIL UNITS BEING PRO	MIDED.
	INSULATION TYPE AND THICKNESS PER NOMINAL I PIPE SYSTEM TUBE SIZE	PIPE OR INSULATION TYPE AND THICKNESS PER NOMINAL PIPE OR TUBE SIZE (DIRECT BURIED) NOTES	EXT.			MAX. DIMENSIONS
	CWR - CHILLED WATER RETURN A 0.5°, 8.0.5° A 1°, 8.1°	(7,81" 0.7,61"	TAG S.P. IN DB V. S.P. IN DB V	F MBH MBH GPM "F "F FT.HD MBH GPM "F 1.0 19.3 7.85 3.8 40 52 5.00 26.3 1.8 180 1.0 19.3 7.85 3.8 40 52 5.00 26.3 1.8 180 1.0 19.3 7.85 3.8 40 52 5.00 26.3 1.8 180 1.0	TUNT W.P.D. PRM VOLTAGE PHASES NOTE N	LENGTH WIDTH HEIGHT MANUFACTURER MODEL NOTES 0 20 31 10 IEC CXB08A6 NOTES 1, 2, 3, 4, 8 5 0 20 31 10 IEC CXB08A6 NOTES 1, 2, 3, 4, 8 5
- VM	GWS - GLYCOL WATER SUPPLY B1' B1' B1' B1' PPC - HIGH PRESSURE CONCENSATE A4.5' A5' A5' A5' HPS - HIGH PRESSURE STEAM A4.5' A5' A5' A5' HPS - HIGH PRESSURE STEAM A4.5' A5' A5' A5' HWK - HEATING WATER RETURN A1.5' A1.5' A2' A2' HWK - HEATING WATER SUPPLY A1.5' A1.5' A2' A2' A2' A3.5' A1.5' A2' A2'	28	SPLIT SYSTE	1 UNIT SCHEDULE	0 150 3.50 0.25 1800 277 1 MFR NF FV 500	: 20 31 10 IEC CXB08A6 NOTES 1, 2, 3, 4, & 5
\$ 102733	HWS - HEATING WATER SUPPLY A.1.5" A.1.5" A.2" A.2" A.2" LO-REFROGRANT LOUDD A.0.5", 8.0.5" A.0.5", 8.0.5" A.0.5", 8.0.5" A.1.5" A.2.5" A.2.	AZ C1.E1' C1' C1' E1'	NOTES: 1.PROVIDE SPLIT SYSTEM 2.PROVIDE SPLIT SYSTEM	CONDENSING UNIT WITH LOW AMBIENT COOLING KIT.		
3/14002	LPS - LLWF PRESOURCE STEWN A 25 A 25 A 25 A 25 MA25 MA	T, B T (C T, E T) A F G F G F G F G F G F T, B T G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F G F A F G F G F G F A F G F G F G F A F G F G F A F G F G F A F G F G F A F G F G F A F G F G F A F G F G F A F G F G F A F G F G F A F G F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F G F A F	TAG NAME AREA SERVED	INDOOR UNIT MAX. DIMENSIONS CFM MBH MBH LENGTH WIDTH HEIGHT WEIGHT	OUTSIDE UNIT MAX. DIMENSIONS	
	PC - PUMPED CONDENSATE A 25" A 25" A 25" A 3" SUC - REFRIGERANT SUCTION A 0.5", 8 0.5" A 0.5", 8 0.5" A 1", 8 1" A 1	A3" G4" G4" G5" G5" r,Br Cr,Er Cr,Er Cr,Er Cr,Er Cr,Er		713 21 27.4 41.5" 8.5" 11.75" 27.6	MODEL SEER MCA MOOF VOLTAGE PHASES HEIGHT LENGTH WIDTH WEIGHT RNS24 20 20 30 208 1 3:3:144 3:1* 1:1* 150.4 20 20 20 30 208 1 3:3:144 3:1* 1:1* 0	MODEL NOTE A) (NOTE B) (NOTE A) SCCR MANUFACTURER NOTES
				RADIATION ZONE SCH	HEDULE	
S.C.L.W.				NOTES: 1. SNOW MELT PERFORMANCE BASED ON 5 2. SNOW AND ICE SENSOR PROVIDED BY SN 3. SNOW MELT ZONE TO BE CONTROLLED BY	0% PROPELENE GLYCOL. NOW MELT MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR. Y ZONE CONTROL VALVE. REFERENCE MC SERIES SHEETS FOR DESCRIPTION OF CO	ONTROL.
Door Filth News (St.				TAG NAME AREA SERVED SMZ-101 SPS ENTRANCE SIDEW	MAX MAX NUMBER	TOTAL LOAD PER SURFACE SURFA
INDC-WA						PIPING SCHEDULE GENERAL NOTES
Pd. VA VVR						A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND NISTALLED BY: MFR = MANUFACTURER EC = ELECTRICAL CONTRACTOR.
48.04_105						B. DISCONNECT TYPE: F = FUSED NF = NON-FISED
21,10004						C. CONTROLLER STARTER TYPE: PV = PULL VCLTAGE SS = SOLIO STATE (SOFT START) VFD = VARBABLE FREQUENCY DRIVE VFDB = VARBABLE FREQUENCY DRIVE VFDB = VARBABLE FREQUENCY DRIVE VFDB = VARBABLE FREQUENCY DRIVE WITH BYPASS
石型製物の						OS - OCCUS STATE (BOTH STATE) VFD = VARMABLE PREQUENCY DRIVE VFDB = VARMABLE PREQUENCY DRIVE WITH BYPASS D. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
Falls Now						NAME PLATE RATING. E. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
Ovv Step	CONSULTANT	ARCHITECT/ENGINEER OF RECORD STAM	Office of	Drawing Title	Phase	Project Title Project Number 438-460
W War D	DIMEG SIGNASIBANG SUNDANDER ANGER SUNDANDER ANGER SUNDANDER ANGERS SUNDANDER ANGERS		Constructi	on I II	BID DOCUMENTS	CONSTRUCT NEW SPS 438-460 Building Number 5
	MEGICAL TO SERVICE AND	ANDERSON	and Facility Manageme			[Location Sioux Falls, SD. Drawing Number
Revisions: Date:	This SECULIARIE WINDOWS POR AND SECULIAR OF AN ORDER OF THE CORP. WHITE AND	18685 1st Ave. M. #186 Flymouth, MM 88441 F783/422-888 F788/422,6990 Ablanticom Addition Engineering of Minetento, LLC Phoj# 16584	VA U.S. Department	rtment is	FULLY SPRINKLERED	lissue Date Checked Drawn DELLLE DELLE
VA FORM 08 - 6231 1 2	3	American registering on minimum a. Art. runje 10004	Affairs	7		9 10

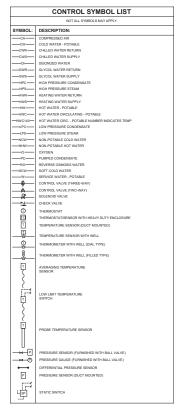


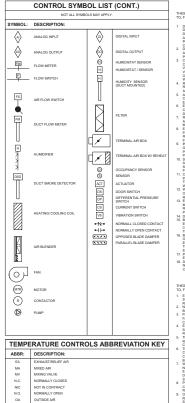
APPI	LICABLE CODES			
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.				
BUILDING CODE:	IBC 2021 EDITION			
FIRE CODE:	IFC 2021 EDITION			
PLUMBING CODE:	IPC 2021 EDITION			
MECHANICAL CODE:	IMC 2021 EDITION			
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION			
LIFE SAFETY CODE:	NFPA 101 2021 EDITION			
ENERGY CONSERVATION CODE:	IECC 2021			
HEALTH DEPARTMENT CODE:	CURRENT EDITION			
LOCAL BUILDING CODE:	CURRENT EDITION			

CONTRACTOR ABBREVIATION KEY				
ABBR:	DESCRIPTION:			
A.C.	ASBESTOS ABATEMENT CONTRACTOR			
C.C.	CIVIL CONTRACTOR			
C.O.R.	CONTRACTING OFFICER'S REPRESENTATIVE			
E.C.	ELECTRICAL CONTRACTOR			
F.P.C.	FIRE PROTECTION CONTRACTOR			
G.C.	GENERAL CONTRACTOR			
M.C.	MECHANICAL CONTRACTOR			
P.C.	PLUMBING CONTRACTOR			
T.C.	TECHNOLOGY CONTRACTOR			
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR			

ACT PERSONS:
PERSON:
ERIC J. HENDERSON, PE
DELLAN J. LLEWELLYN, PE
KRISTEN SPINA, PE
DAMON M. DEEN

TEMPERATURE CONTROL SHEET INDEX				
MC000	CONTROLS COVERSHEET			
MC101	GROUND LEVEL FLOOR PLAN - CONTROLS			
MC102	FIRST LEVEL FLOOR PLAN - ROOM PRESSURIZATION PLAN			
MC111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - CONTROLS			
MC121	ROOF PLAN - CONTROLS			
MC400	CONTROL DIAGRAMS			
MC401	CONTROL DIAGRAMS			
MC402	CONTROL DIAGRAMS			
MC403	CONTROL DIAGRAMS			
MC404	CONTROL DIAGRAMS			





MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- 1. DRAWINGS SHOWLD LOCATIONS OF EXPENSITE DUCTHORS, FIRM, ET. ARE DAGGRAMANTO, AND MAY ONT ANY REPLACE TOUR TREAL LATEN CONTIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTHORS, FIRM, EQUIPMENT, ETC., AND MAY TOT BULLIOLE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE, OCCUPANTIAL TOUR AND THE WORK OF THE STATE OF THE CONTINUED OF CONTINUED CONSTRUCTION AND THE WORK OF OTHERS WILL FIRM!.

 CONSTRUCTION AND THE WORK OF OTHERS WILL FIRM!.
- ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS
 PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES
 COORDINATE ALL WORKE WITH ALL OTHER TRADES PRIOR TO INSTALL ATION TO PRO CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER
- ACCESS.

 ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR
- EXPENSE TO OTHERS.

 EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL
 CHAMMES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF
- CAMORE REQUIRED FOR EXAMPLED FOR SAME ELECTRICAL, TECHNOLOGY MERE TO A GARDICHAR REFLECTED CEALING PLAN, ELECTRICAL, TECHNOLOGY ALDIOVISIAL AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CELLING ALDIOVISIAL AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CELLING ALDIOVISIAL AND OTHER ACTIONS OF ALL CELLING AND PARTIES OF A CONTRACTOR WHOSE WORK CAUSES DAMAGE AND EXCHANGE AND PARTIES DAMAGE AND EXCHANGE AND PARTIES OF A CONTRACTOR WHOSE WORK CAUSES DAMAGE AND EXCHANGE AND PARTIES OF A CONTRACTOR WHOSE WORK CAUSES DAMAGE AND EXCHANGE AND PARTIES OF A CONTRACTOR OF A CONTRA AGE CAUSED BY THEIR ACTIONS TO WALLS
- PRESENTABLE FUR FALLERS IN INC.

 IN ARREST WITH PROVIDED THE REPORT OF THE PROPERTY OF THE PRO
- TION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE SMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS
- ur±nnsus with HETOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH RELEVANT SPEC SECTIONS. SEX SEEVE PERMIETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DEFERENT MANIFACTURES. CONSULT APPROVED HOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PPARO, DUCTYORK, ETC.
- PIPING, DUCTWORK, E1C.

 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.

 15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL
- 5. MANTARA ANIMANIA WICHING CAERANCE OF 3 FM IN RONG OF ALL ELECTRICAL MILES AND ANIMANIA WICHING CAERANCE OF 3 FM IN RONG OF ALL ELECTRICAL MILESTO TO ANIELS OS INTERNICION ANIMA SIMPLEMENTO AND STATERS.
 TRANSFORMERS EQUIPMENT DECONNECTS OF THE MILESTON AND STATERS.
 TRANSFORMERS EQUIPMENT PROPORTION OF THE MILESTON AND STATERS.
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 THE
- EXTEND MINIMUM "5 BEYOND ALL SIDES OF EQUIPMENT.

 DO NOT SUPPORT EQUIPMENT, PIPMS, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

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.

- DISTING CONDITIONS ARE SHOWN ASSESS ON INFORMATION OF MARCH FROM FELL SURVEYS, EXEMPTING BULLDAWN CONCERNS. AND STAFF FURTH POSTING CONDITIONS AND REPORT ANY COMPLICTS BEFORE PROCEEDING. NOT ANY COMPLICTS BEFORE FOR SHOWN, VERYF PASSING, CONDITIONS AND THAT ALL DISTING DUCKTOWN, AND PRIVES SHOWN. VERYF PASSING, CONDITIONS AND PRIVE SHOWN AND ANY CONTRACT OF THE WORK. FIELD VERFY THE AVAILABLE CLEARANCES FOR DUCKTWORK AND PRIVE SEPTING FELL OF POSTING FELL OF THE STAFF FELL AND FELL CLEARANCES FOR DUCKTWORK AND PRIVES SHOW DELINE OF POSTING FELL OF THE STAFF FELL AND ASSESS AND DOORS NAME OF EXCESSING PECALISE OF POSTING FELL OF POSTING FELL OF THE STAFF FELL AND ASSESS AND DOORS NAME OF EXCESSING PECALISE OF POSTING FELL OF POSTING FELL OF THE STAFF FELL AND ASSESS AND DOORS NAME OF EXCESSING PECALISE OF POSTING FELL OF POSTING FELL OF THE STAFF FELL OF THE STA
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- CONTRACTORS NOTIFY THE UBBERRY LIGHT REPORT OF A REAS THAT CONFLICT WITH NEW REQUIRED IT PRIME OR DULTHOUR TO BE REPAILED, BACK CONTRACTOR SHALL DOES NOT CONFLICT WITH DESTING STYRES OR STORY DESTINATION OF DESTINATION OF A D

- REBANDA ACTIVE.

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TEMPERATURE CONTROL GENERAL NOTES:

- REFER TO COURMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DAGGAMS AREN'T DOWN THROUGH CONTROL TO THE CONTROL DAGGAMS AREN'T DOWN THROUGH CONTROL THROUGH CONTROL DAGGAMS AND AREN'D CONTROL DAGGAMS SHALL BENCHE CONTROL DATE OF THE CONTROL SHOWN ON THESE CONTROL DAGGAMS SHALL BENCHE DE IT HE TO CALLES SPECIFICALLY HOTED CONTROL DAGGAMS SHALL BENCHE CONTROL DATE OF THE TO CALLES SPECIFICALLY HOTED
- OTHERWISE.
 TEMPERATURE CONTROL CABLING, CONDUIT, BOXES, IDENTIFICATION: REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF REQUIREMENTS. THE FOLLOWING SCHEDULE IS PROVIDED AS A CONVENIENCE. REFER TO SECTION 23 900 AND DIV 25 FOR ADDITIONAL
 - LOVIDED A A CONVENIENCE. REFER TO SECTION 23 00 00 AND DN 28 FOR ADDITIONAL TRALED REQUIREMENT.

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 ALL HOLLLUTING CAMERY ARE VALUE ACTUATIONS BROWN WITH POPITION FERENCE PROFITS.

 BUT AND CONTROL THE PROPERTY OF THE PRO
- IS. TCC SHALL EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH AIR HANDLING UNIT, REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS, TCC SHALL
- TO SHALL STEED CONTROL SIGNAL FROM ADDRESSMENE SELV PEOCES SERVING TO CONTROL STEED, AND THE SHALL SHEEP AS A SECURITY OF GOLDWARF SHEEP AND THE SHEEP AS A SECURITY OF GOLDWARF SHEEP AND THE SHEEP AS A SECURITY OF GOLDWARF SHEEP AND THE SHEEP AS A SECURITY OF GOLDWARF AND THE SHEEP AS A SECURITY OF THE SHEEP AS A SEC
- TCC SHALL PROVIDE POWER SUPPLIES FOR ALL 120/AC POWER REQUIREMENTS TO MICLIDE, BUT NOT LIMITED TO, APPLICATION SECFOIC CONTROLLERS, DAMPER AND ACTUATORS, BUILDING PRESSURE SENSORS, AND OTHER CONTROLL COMPONENTS DEVICES. REFER TO [TEMPERATURE CONTROL] LEARTING FLOOR FLANS FOR POWER SUPPLY LOCATIONS. ADDITIONAL CIRCUITS NOT SHOWN AND REQUIRED FOR A COMMON DEVELOPMENT OF THE TEMPERATURE CONTROL.] BY THE TEMPERATURE CONTROL.]
- ADDITIONAL POWER SUPPLES COORDINATE THE LOCATION OF ADDITIONAL POWER SUPPL CARRIEST THE ELECTRICAL CONTRIGUENCE.

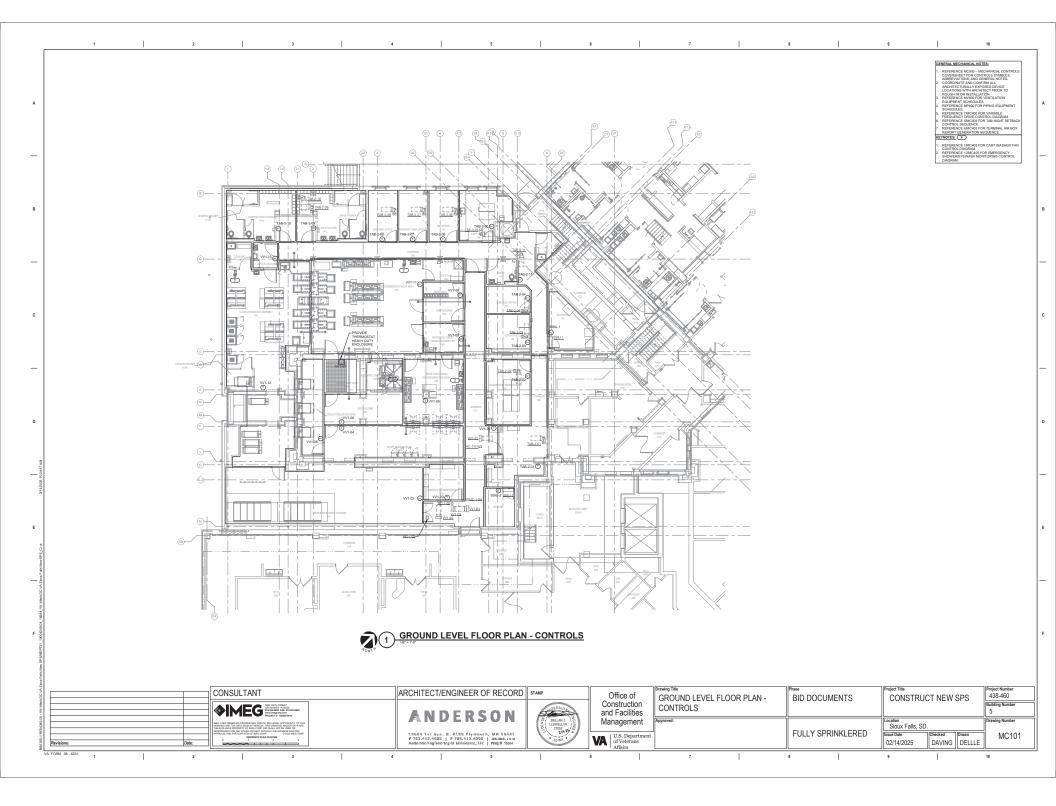
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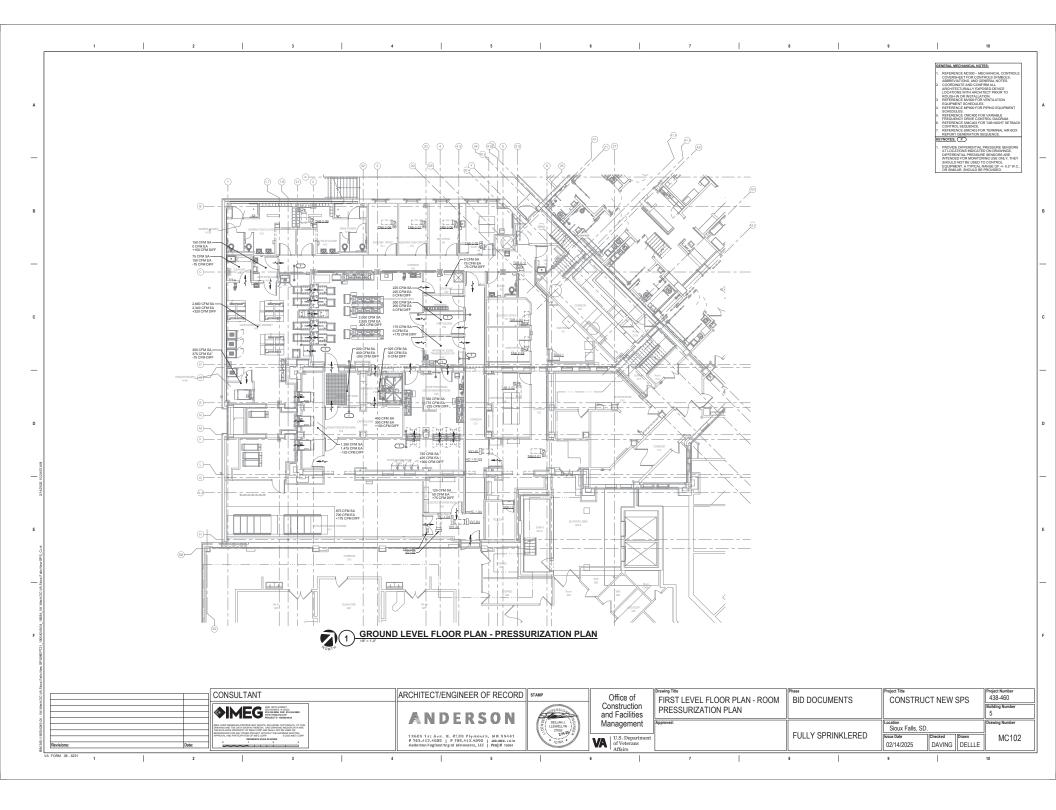
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- FOR A LODGE.

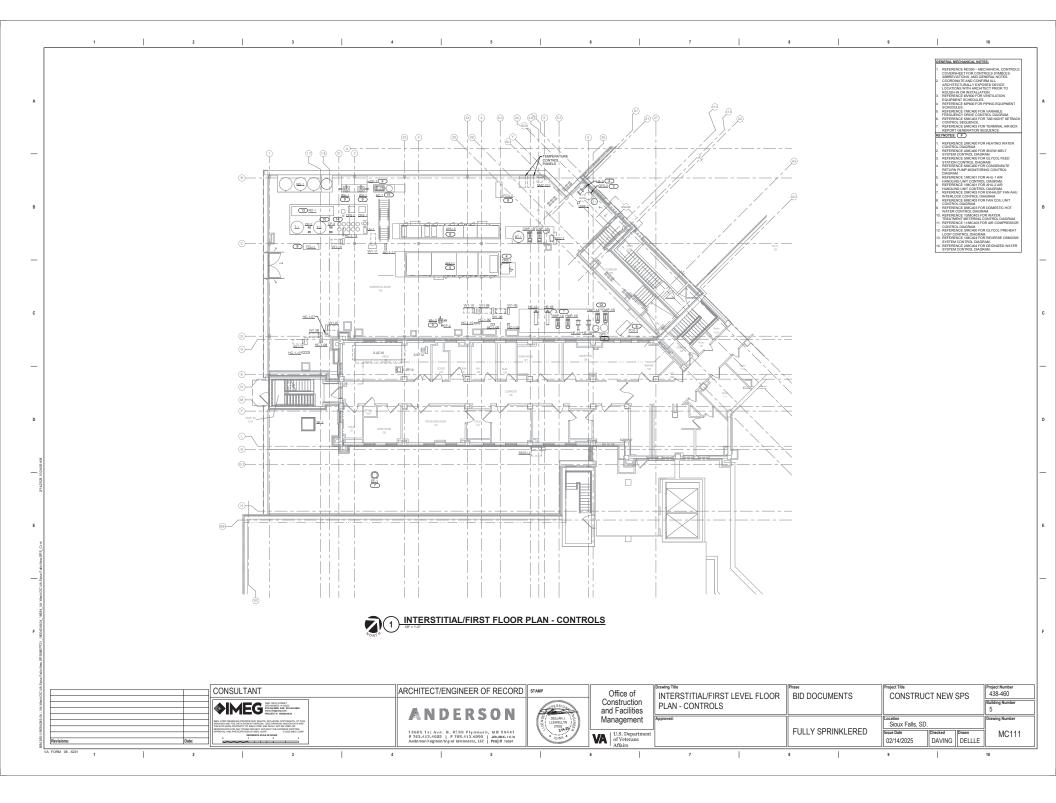
 TO PREVENT GENERATOR OVER QUARKE, TO SHALL PRODUME A STAGGERED START THE PROPERTY OF THE PROPERY
- DE HALS FOR ADDITIONAL CON INCL BEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS. TOO SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE

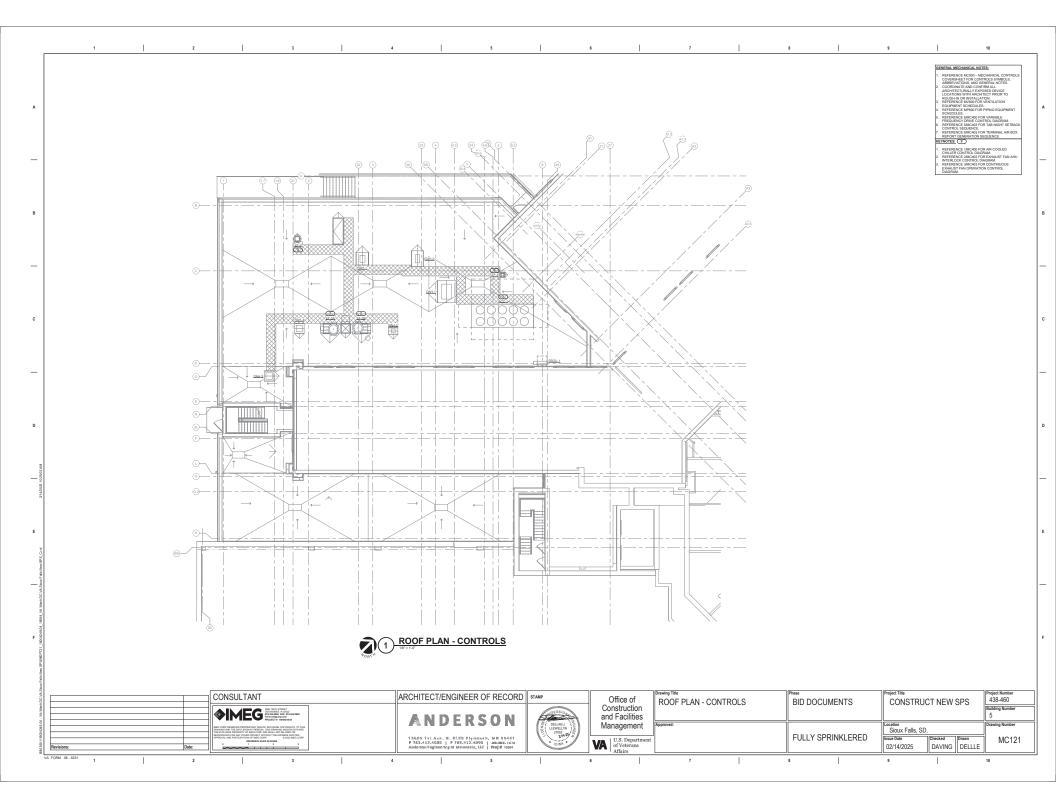


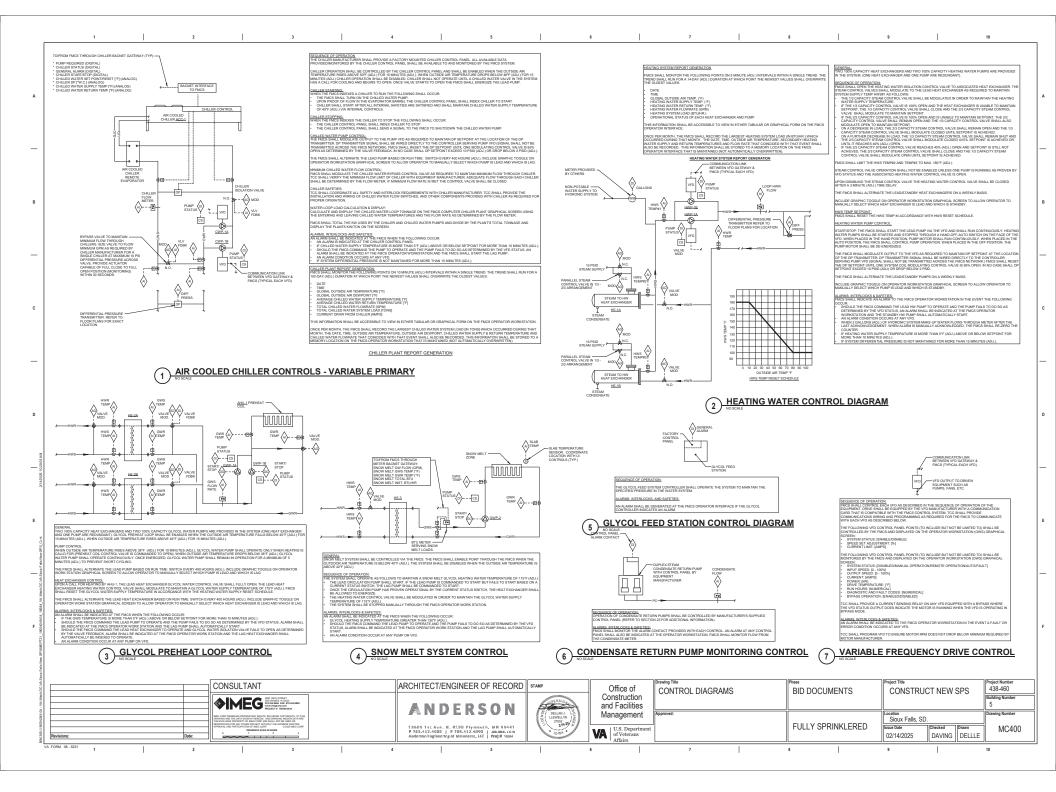
RETURN AIR SUPPLY AIR

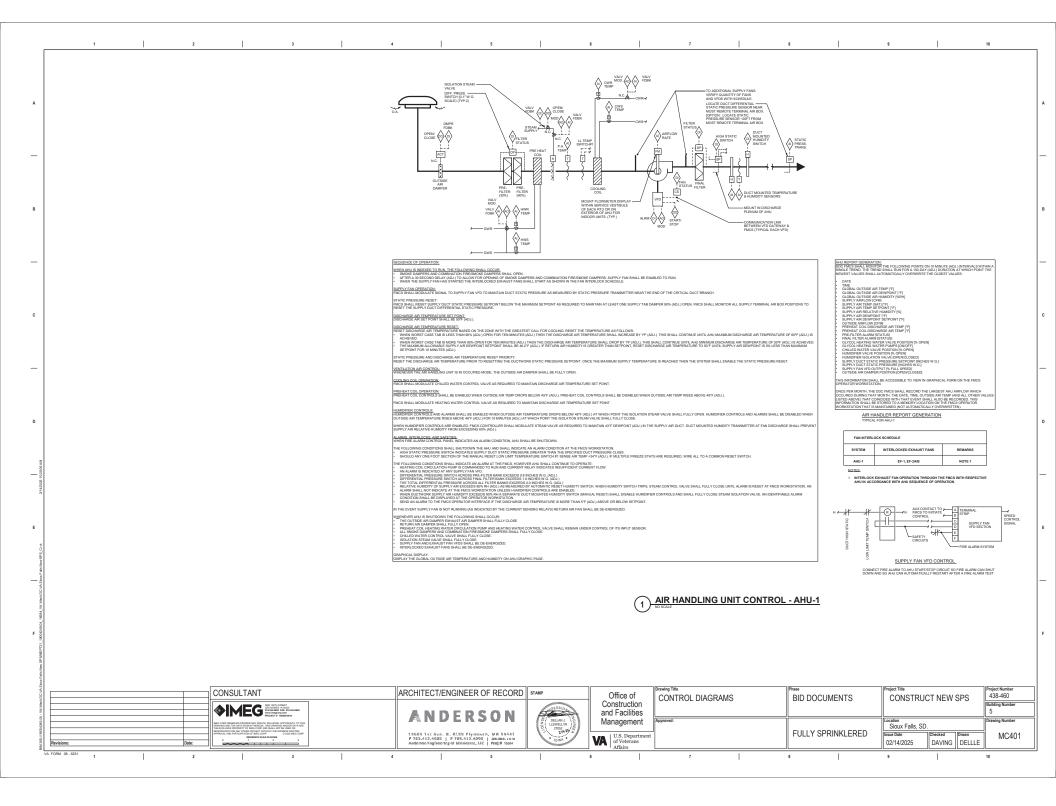


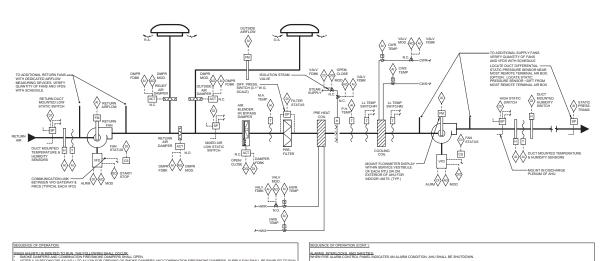








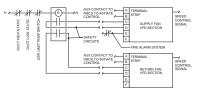




RETURN FAN AIREI OW SCHEDUILE SYSTEM SUPPLY CFM EXHAUST FANS PRESSURIZATION CFM REMARKS AHU-2 EF-3 & EF-4 250 NOTES 1,2,3 NOTES:

- 1. THE WAS ARREST OF SETTINGT SHALL SET THE METHY FAR ARREST OWN AN REGULATED BY THE REPORT SHALL SHAL

FAN INTERLOCK SCHEDULE SYSTEM AHU-1 EF-3 & EF-4 NOTE 1



SUPPLY & RETURN FAN VFD CONTROL CONNECT FIRE ALARM TO AHU START/STOP CIRCUIT SO FIRE ALARM CAN SHUT DOWN AND SO AHU CAN AUTOMATICALLY RESTART AFTER A FIRE ALARM TEST

AFTER A 30 SECOND DELAY (ADJ.) TO ALLOW FOR OPENING OF SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS. SUPPLY FAN SHALL BE ENABLED TO RUNNER THE SUPPLY FAN HAS STARTED THE RETURN FAN AND INTERLOCKED EXHAUST FANS SHALL START AS SHOWN IN THE FAN INTERLOCK SCHEDULE.

SUPPLY FAN OFFRATION.
FINGS SHALL MODULATE SIGNAL TO SUPPLY FAN VFD TO MANTAIN DUCT STATIC PRESSURE AS MEASURED BY STATIC PRESSURE TRANSMITTER NEAR THE END OF THE
GRITICAL DUCT BENACH.

MINITER OF SHALLAR.

UNIN FAR SHALL BE INDEXED TO RUN WHENEVER THE SUPPLY FAN IS INDEXED TO RUN. FMCS SHALL MODULATE SIGNAL TO RETURN FAN VFD AS REQUIRED TO NTAN THE ARFLOW OFFSET AS INDICATED IN THE RETURN FAN AIRFLOW SCHEDULE:

STATIC PRESSURE RESET:
PAICS SHALL RESET SUPPLY DUCT STATIC PRESSURE SETPONT BELOW THE MAXIMUM SETPONT AS REQUIRED TO MAINTAIN AT LEAST ONE SUPPLY TAB DAMPER 90%
(ADJ.) OPEN. PAICS SHALL MONTROR ALL SUPPLY TERMINAL AIR BOX POSITIONS TO RESET THE SUPPLY DUCT DIFFERENTIAL STATIC PRESSURE. ISCHARGE AIR TEMPERATURE SET POINT: ISCHARGE AIR SET POINT SHALL BE 55°F (ADJ.).

COLONGE ARE TRANSPERIOR RESET.

SEE TOURNING AT THE PROPRIATION FOR THE ZONE WITH THE OPERATED CALL FOR COCUMD RESET THE TRANSPERIURE AS FOLLOWS.

WHAT DOCT LIVE THE PROPRIATION FOR THE ZONE WITH THE OPERATED CALL FOR COCUMD RESET THE TRANSPERIURE SHALL RECEIVE THE FOR THE PROPRIATE SHALL RECEIVE THE PROPRIAT

STATIC PRESSURE AND DISCHARGE AIR TEMPERATURE RESET PRIORITY.

RESET THE DISCHARGE AIR TEMPERATURE PRORITO RESETTING THE DUCTWORK STATIC PRESSURE SETPOINT, ONCE THE MAXIMUM SUPPLY TEMPERATURE IS

DRAWLED THAN THE OVERTING WAIL I FAMILE THE OFATIO DESCRIPTION OF OFFI

TILATION AR CONTROL.
SEVERT RES ARE MANDELING UNIT IS IN OCCUPIED MODE. THE OUTSIDE AR DAMPER SHALL BE FULLY OPEN. THE RETURN AR AND RELIEF AR DAMPER SHALL
BULLTE IN OPPOSITION TO MAINTAIN THE MINIMUM OUTSIDE AIR FLOW RATE, OR TO SATISFY THE ECONOMIZER DISCHARGE AR SEQUENCE.

COOLING COIL OPERATION: WHEN IN MINIMUM OUTSIDE AIR MODE, FINCS SHALL MODULATE CHILLED WATER CONTROL VALVE AS REQUIRED TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT OF THE PROPERTY OF THE

PREHEAT COIL CORTROLS SHALL BE ENABLED WHEN OUTSIDE AIR TEMP DROPS BELOW 50°F (ADJ.), PREHEAT COIL CONTROLS SHALL BE DISABLED WHEN OUTSIDE AIR TEMP RISES ABOVE 54°F (ADJ.).

CONOMIZER MODE THE FMCS SHALL MODULATE THE RETURN AND RELIEF DAMPERS AS REQUIRED TO MAINTAIN DISCHARGE AIR TEMPERATURE SETPONT. HAMDIFFE CONTROLS.
HAMDIFFE CONTROLS AND ALARMS SHALL BE ENABLED WHEN OUTSIDE AIR TEMPERATURE DROPS BELOW 48°F (ADJ.) AT WHICH POINT THE ISOLATION STE SHALL FLULY OPEN, HAMDIFFER CONTROLS AND ALARMS SHALL BE DISABLED WHEN OUTSIDE AIR TEMPERATURE RISES ABOVE 48°F (ADJ.) FOR 10 MINUTES WHICH POINT THE ISOLATION STEAM VALVE SHALL FLULY CLOSE.

HEN HUMIDIFIER CONTROLS ARE ENABLED, FMCS CONTROLLER SHALL MODULATE STEAM VALVE AS REQUIRED TO MAINTAIN 43°F DEWPOINT (ADJ.) IN TH CT. DUCT MOUNTED HUMIDITY TRANSMITTER AT FAN DISCHARGE SHALL PREVENT SUPPLY AIR RELATIVE HUMIDITY FROM EXCEEDING 80% (ADJ.).

OWING CONDITIONS SHALL SHUTDOWN THE AHU AND SHALL INDICATE AN ALARM CONDITION AT THE FMCS WORKSTATION: STATIC PRESSURE SWITCH INDICATES RETURN DUICT PRESSURE LESS THAN THE SPECIFIED DUICT PRESSURE CLASS

LOW STATC PRESSURE SWITCH NOCATES RETURN DUCT PRESSURE LESS THAN IT HE SPECIFIED DUCT PRESSURE CLASS. OTHER OTHER AND ADDRESSURE CLASS TO THE OTHER AND ADDRESSURE CLASS TO THE OTHER AND ADDRESSURE CLASS OF THE OTHER AND ADDRESSURE CLASS OF THE OTHER AND ADDRESSURE CLASS OF THE OTHER AND ADDRESS AND ADDRESSURE AND ADDRESSURE AND ADDRESSURE AND ADDRESSURE AND ADDRESSURE AND ADDRESS AND ADD

IE FOLLOWING CONDITIONS SHALL INDICATE AN ALARM AT THE FMCS, HOWEVER AHU SHALL CONTINUE TO OPERATE: HEATING COIL CIRCULATION PUMP IS COMMANDED TO RUN AND CURRENT RELAY INDICATES INSUFFICIENT CURRENT FLOW.

HIGHTING COL. CROULTION FAIRE IS COMMINGED TO RISK AND LICENSES THE MALE TRUCK IS INSTITUTED IN COMMINGED TO THE AND LICENSES THE MALE TRUCK IS INSTITUTED IN COMMINGED TO THE MALE THE

COMPINE, VAILY SHOUL FILLY ACCORD WITH A JANUAR SERSE IT A FIG. 90 WORRSTATION, AN JANUAR SHALL NOT ROCATE AT THE PINGS WORRSTATION UNLESS MANUAR FEBRUARY AND A SHALL AND A S

THE EVENT SUPPLY FAN IS NOT RUNNING (AS INDICATED BY THE CURRENT SENSING RELAYS) RETURN AIR FAN SHALL BE DE-ENERGIZED.

HENEVER AHURTU IS SHUTDOWN THE FOLLOWING SHALL OCCUR: THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL FULLY CLOSE.

UNOCCUPIED MODE: PROVIDE TIME OF DAY SCHEDULE TO ALLOW AHU TO ENTER UNOCCUPIED MODE PER SCHEDULE. COORDINATE SCHEDULE WITH OWNER.

THE MORE WHILE ASSETTING THE MICROCOMPED CYCLE IF THE SYSTEM WAS OPERATING AS A RESULT OF THE MICROCOMPED CYCLE THE SYSTEM SHALL CONTINUE.

THIS CYCLE SHALL OVERRICE THE MICROCOMPED CYCLE IF THE SYSTEM WAS OPERATING AS A RESULT OF THE MICROCOMPED CYCLE. THE SYSTEM SHALL CONTINUE
OF THE SYSTEM SHALL CONTINUE
OF THE SYSTEM WAS A CONTINUED OF THE SYSTEM WAS OPERATING AS A PROPERTY OF THE SYSTEM SHALL CONTINUE OF THE SYSTE

<u>GRAPHICAL DISPLAY:</u> DISPLAY THE GLOBAL OUTSIDE AIR TEMPERATURE AND HUMIDITY ON AHU GRAPHIC PAGE.

AHU REPORT GENERATION:
DDC FNCS SHALL MONTOR THE FOLLOWING POINTS ON 10 MINUTE (ADJ.) INTERVALS WITHIN
SINGLE TREND. THE TREND SHALL RUN FOR A 100-DAY (ADJ.) DURATION AT WHICH POINT THE
NEWEST VALUES SHALL AUTOMATICALLY OVERWRITE THE OLDEST VALUES. TIME

GLOBAL OUTSIDE ART TEMP [*F]

GLOBAL OUTSIDE ART TEMP [*F]

GLOBAL OUTSIDE ART DEWPORT [*F]

SUPPLY ART-LOW (CPM)

SUPPLY ART-LOW (CPM)

SUPPLY ART LEMP SETTPORT [*F]

SUPPLY ART LEMP SETTPORT [*F]

SUPPLY ART RELATIVE HUMDITY [%]

OUTSIDE ART-LOW (CPM)

OUTSIDE ART-LOW (CPM)

OUTSIDE ART-LOW (CPM)

MOED ART EMP [*F] MIXED AIR TEMP ["F]
PREHEAT COIL DISCHARGE AIR TEMP ["F]
PRE-FILTER ALARM [STATUS] PRE-FILTER ALARM [STATUS]
HEATING WATER VALVE POSITION [% OPEN]
HEATING PUMP [ON/OFF]
CHILLED WATER VALVE POSITION [% OPEN]
HUMDIFIER VALVE POSITION [% OPEN]
HUMDIFIER VALVE POSITION [% OPEN] HUMIDIEN VALVE POSITION (% OPEN)
HUMIDIER ISOLATION VALVE (DPENCLOSED)
SUPPLY DUCT STATIC PRESSURE SETPOINT (INCHES W.G.)
SUPPLY DUCT STATIC PRESSURE (INCHES W.G.)
SUPPLY DUCT STATIC PRESSURE (INCHES W.G.)
SUPPLY FAN YFO OUTPUT (% FULL SPEED)
RETURN FAN YFO OUTPUT (% FULL SPEED) OUTSIDE AIR DAMPER POSITION [% OPEN] RETURN AIR DAMPER POSITION [% OPEN] RELIEF AIR DAMPER POSITION [% OPEN] HIS INFORMATION SHALL BE ACCESSIBLE TO VIEW IN GRAPHICAL FORM ON THE FMCS ONCE PER MONTH, THE DDC FMCS SHALL RECORD THE LARGEST AHLI AIRFLOW WHICH OCCURED DURNING THAT MONTH: THE DATE, TIME, OUTSIDE AIR TEMP (AND ALL OTHER LISTED AROUS) THAT CONCIDED WITH THAT EVENTS SHALL ALS DE RECORDED. THIS INFORMATION SHALL BE STORED TO A MEMORY LOCATION ON THE FMCS OPERATOR WORKSTATION THAT IS MAINTAINED, DIOY AUTOMATICALLY OVERWITHTEN).

AIR HANDLER REPORT GENERATION

1 AIR HANDLING UNIT CONTROL - AHU-2

ARCHITECT/ENGINEER OF RECORD | STAMP CONSULTANT Office of 438-460 CONTROL DIAGRAMS BID DOCUMENTS CONSTRUCT NEW SPS Construction Building Number ◆IMEG SHOWER IN STREET SHOWER IN and Facilities ANDERSON Management Sioux Falls, SD FULLY SPRINKLERED 13605 1ac Ave. N. 3180 Plymouth, MN 55441 F 783.412.4085 | F 783.412.4090 | 26-min.com Auderson Englisering of Minerance, MC | Pinf) \$ 16584 Seema Data Chacked MC402 U.S. Department VA U.S. Departs of Veterans 02/14/2025 DAVING DELLLE Affairs

