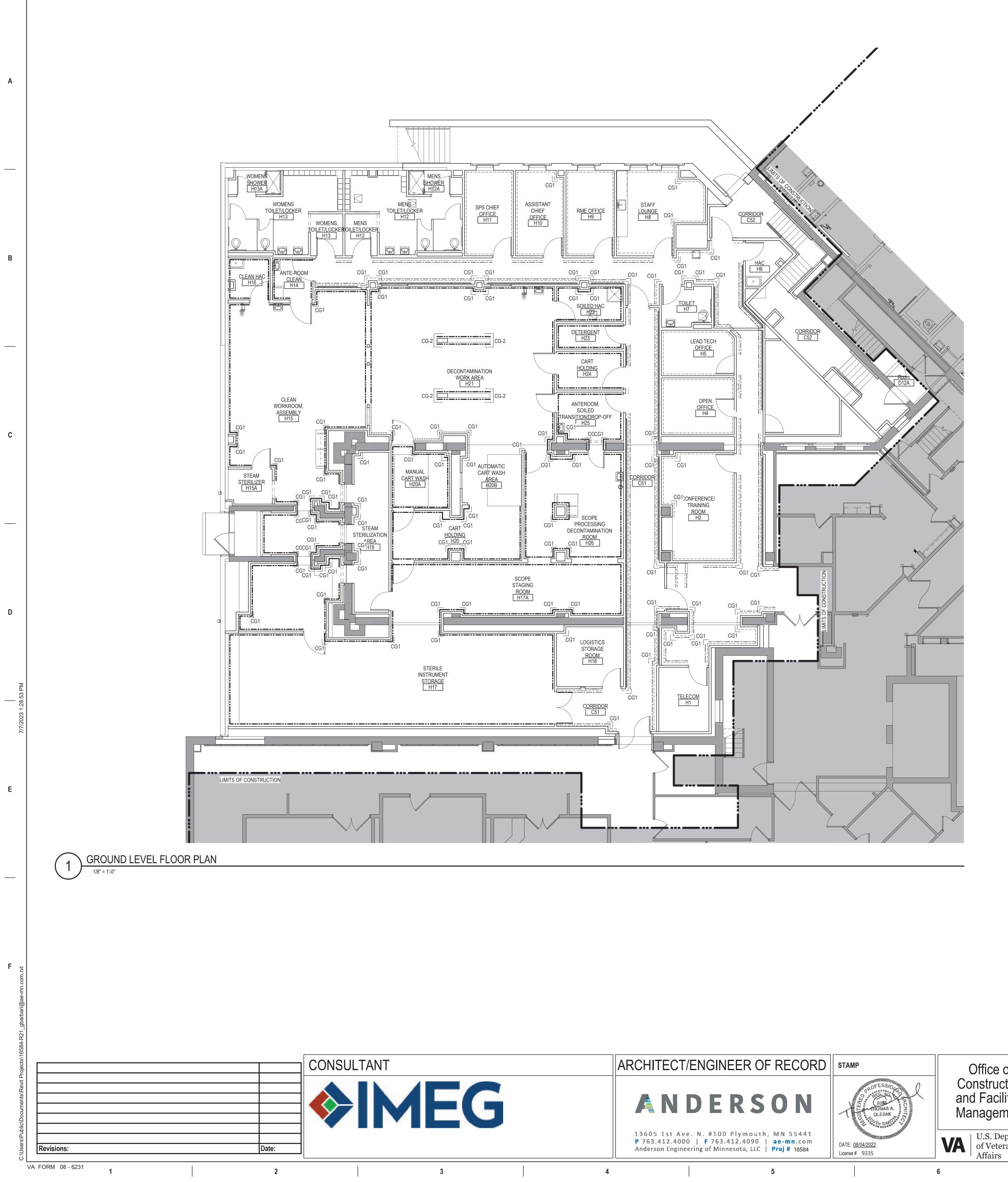


e of iction cilities	Drawing Title FINISH PLANS		Phase BID DOCUMENTS		Project Title CONSTRUCT N	
ement					Location Sioux Falls, SD.	
Department terans 's	Approved:		FULLY SPRIN	KLERED	Issue Date 08/04/2022	Checked Chec
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ROOM F ABBREV	INISH LEC IATIONS	GEND &	
<sub>CG</sub>	CORNER GUARD	(AF10)	KEYNOTE
			MATERIAL INSTALL DIRECTION
RB RESILIENT BAS RES RESINOUS EF RES-W RESINOUS RF RUBBER FLOO S SOLID SURFACE SC SPECIAL SP SPECIAL FACE	POXY FLOORING /EPOXY WALL/CEILING RING L COATING	HEAT WELDED WITH RC	)D)
	NOTE: NOT ALL SYMBO	OLS MAY BE USED ON E	EACH PLAN
WALL PF	ROTECTIC	ON LEGEN	ND
			WP-1: 48" ABOVE BASE FINSH (1/4" OVERLAP)
			WP-2 FULL SHEET: SEE 3 / AF600 FOR HEIGHT & TRANSITION DETAILS
			CRASH RAIL
- <del> </del>			HANDRAIL

e of uction cilities	Drawing Title GROUND LEVEL WALL PROTECTION PLAN		Phase BID DOCUM	ENTS	Project Title CONSTRUCT NE	
ement					Location Sioux Falls, SD.	
Department terans cs	Approved:		FULLY SPRI	NKLERED	Issue Date 08/04/2022	Checked GJB
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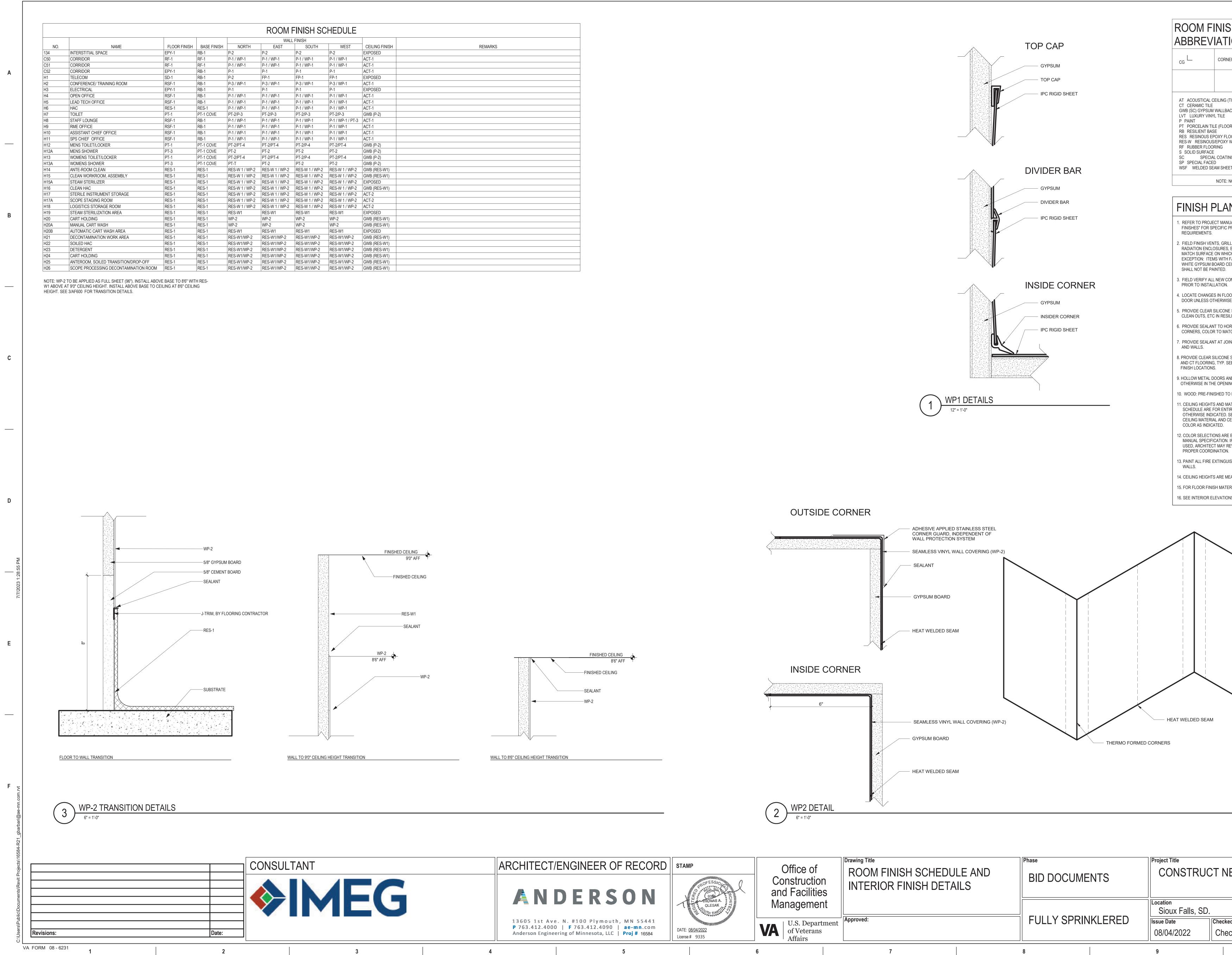
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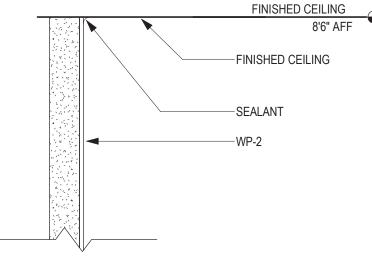
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	Project Number
EW SPS	438-460
	Building Number
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	Drawing Number
d Drawn	AF102
MRP	
	40



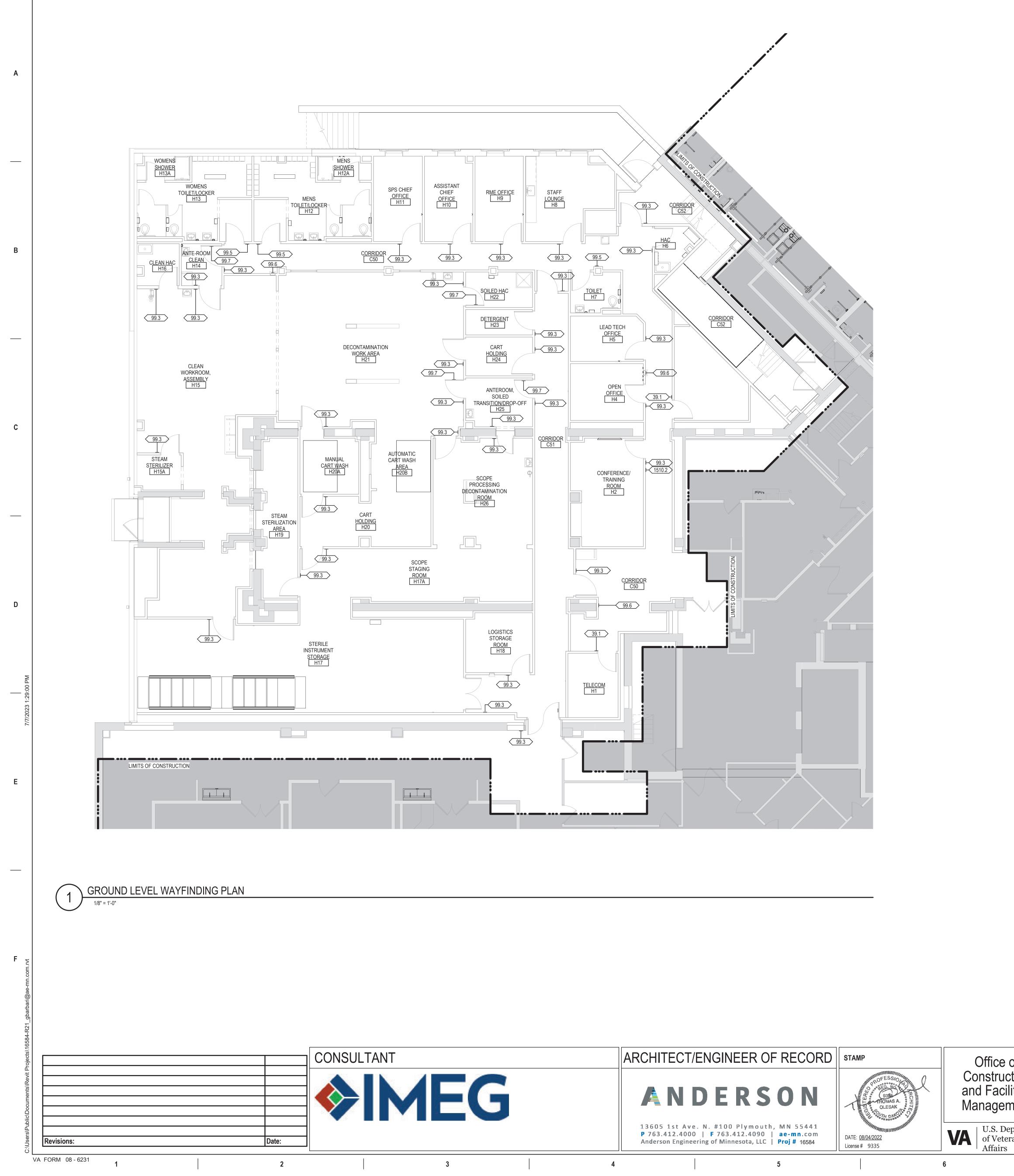
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e of iction cilities	Drawing Title ROOM FINISH SCHEDU INTERIOR FINISH DET	JLE AND	Phase BID DOCUME		Project Title CONSTRUC	T NE;
Department terans	Approved:		FULLY SPRINKLERED		Location SiOux Falls, SD. Issue Date 08/04/2022 Che	
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IER GUARD	(AF10)	KEYNOTE	
		MATERIAL INSTALL DIRECTION	A
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ACK SYSTEMS (SP	ECIAL COATING	3)	
OR AND BASE)			
WALL/CEILING			
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NOT ALL SYMBOL	S MAY BE USED	O ON EACH PLAN	
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CH THEY OCCUR FACTORY WHITE	NEL BOARDS (IN UNLESS OTHER FINISH, OCCUR	I FINISHED SPACES) TO	
ONDITIONS. NOTI	FY ARCHITECT (	OF ANY DISCREPANCIES	_
SE INDICATED.			
ILIENT AND CERAI DRIZONTAL AND V	MIC TILE FLOOR ERTICAL INTERI	UMBING FLOOR DRAINS, S. IOR CERAMIC TILE	
TCH GROUT COLC		CK OR SIDE SPLASH	
		R FRAME TO RESILIENT HEDULE FOR FLOOR	c
ND FRAMES TO B	E PAINTED PT-4	, UNLESS NOTED	
ATERIALS/FINISH	ES CALLED OUT		
SEE REFLECTED	CEILING PLAN F	IAT ROOM, UNLESS OR CHANGES IN FACES OF SOFFIT SAME	
IF MANUFACTUR	ERS OTHER THA	NDICATED IN THE PROJECT AN THOSE INDICATED ARE ITHER FINISHES TO ENSURE	
		OR OF THE ADJACENT	
ERIALS AND PATTE		1 PLAN.	D
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EW SP	S	Project Number 438-460	
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S	SIGNAGE	G
1.	ALL SIGNAGE IDENTIF	
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- WALL.
- OF SIGN.
- 6. ALL SIGNS MOUNTED TO GLASS TO HAVE GLASS BACKER.

e of iction silities	Drawing Title GROUND LEVEL WAYFINDING PLAN	BID DOCL	JMENTS	Project Title CONSTRU	CT N
ement Department erans	Approved:	FULLY SF	PRINKLERED	Location SiOUX Falls, SE Issue Date 08/04/2022	). Checked Chec
s 	7	8		9	

# GENERAL NOTES

NG PERMANENT ROOMS SHALL COMPLY WITH 2010 SIBLE DESIGN.

2. ALL PERMANENT ROOM SIGNAGE TO HAVE TOP SECTION RAISED TEXT AND LOWER SECTION BRAILLE. BRAILLE TO BE GRADE 2.

3. ALL SIGNS TO BE MOUNTED ON LATCH SIDE OF DOOR UNLESS NOTED OTHERWISE. IF NO SPACE EXISTS ON LATCH SIDE MOUNT SIGN TO THE NEAREST ADJACENT

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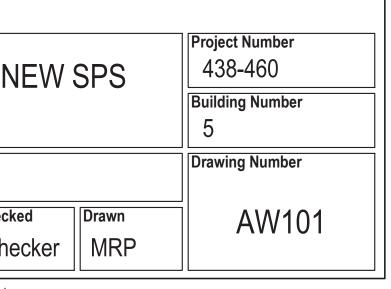
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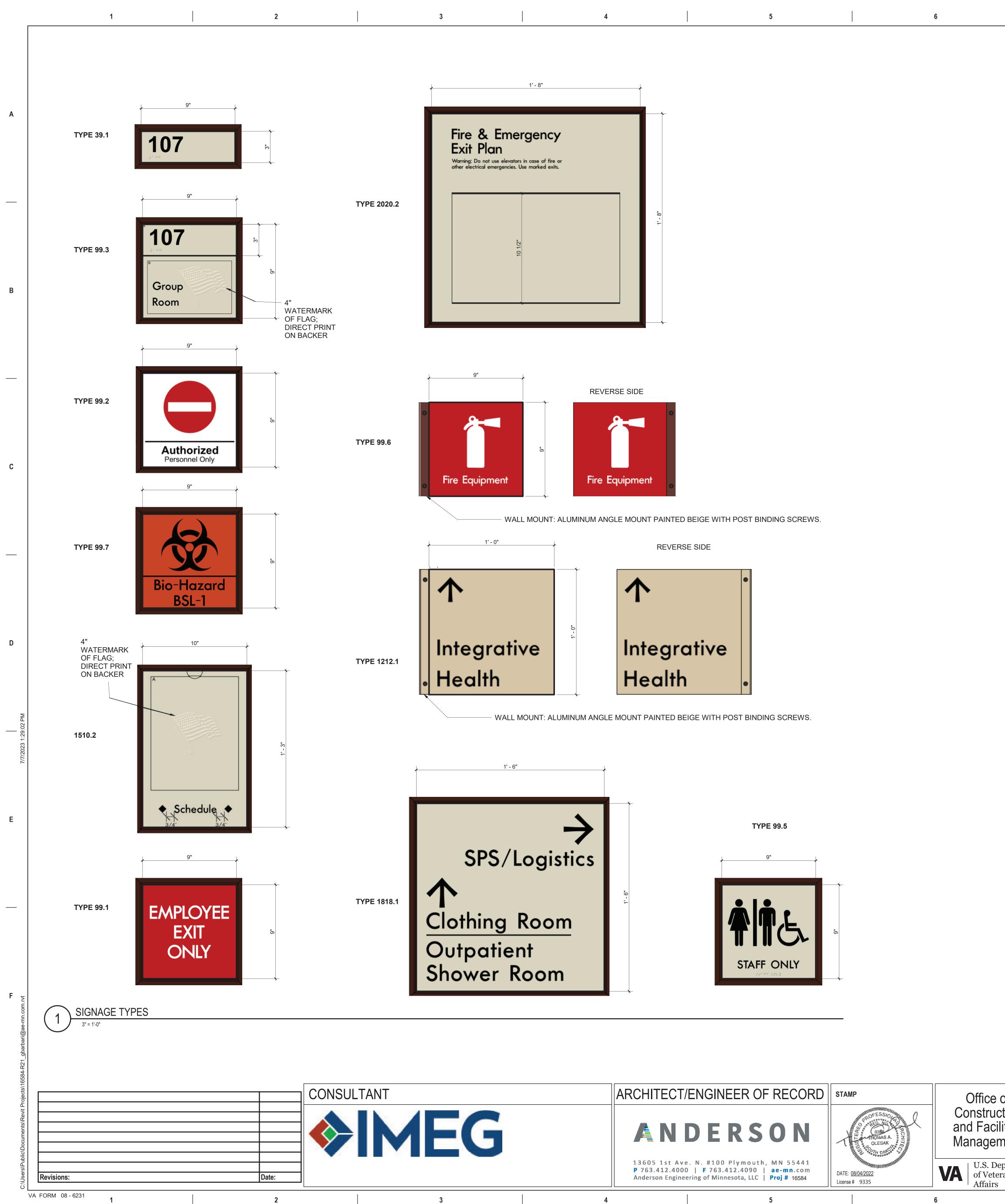
4. SIGNS MUST BE 2" FROM DOOR JAMB WITH 18" CLEAR FLOOR SPACE FROM CENTER

5. ALL SIGN TEXT AND NUMBERING SUBJECT TO FINAL APPROVAL BY OWNER.

SIGNS TO BE MOUNTED ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND MATERIALS.

8. SIGN DRAWINGS AND DETAILS ARE FOR REFERENCE ONLY. SIGNAGE TO BE OWNER PROVIDED UNDER SEPARATE CONTRACT.





	SIGN MESSAGE SCHI	EDULE	
LOCATION	SIGN MESSAGE	SIGN TYPE	REMARKS
	BIOHAZARD	99.7	
250	STERILE PROCESSING SERVICES	99.3	
250	FIRE EQUIPMENT	99.6	
250	FIRE EQUIPMENT	99.6	
250	FIRE EQUIPMENT	99.6	
251	STERILE PROCESSING SERVICES	99.3	
251	CORRIDOR	99.3	
51	STERILE PROCESSING SERVICES	99.3	
11	N/A	39.1	
12	CONFERENCE/ TRAINING ROOM	99.3	
12 12	SCHEDULE	1510.2	
12 13	N/A	39.1	
13  4	OPEN OFFICE		
	LEAD TECH OFFICE	99.3	
15	· · · · · · · · · · · · · · · · · · ·	99.3	
16	HAC	99.3	
17		99.5	
18	STAFF LOUNGE	99.3	
18	STAFF LOUNGE	99.3	
19	RME OFFICE	99.3	
10	ASSISTANT CHIEF OFFICE	99.3	
111	SPS CHIEF OFFICE	99.3	
112	MENS TOILET/LOCKER	99.5	
13	WOMEN'S TOILET/LOCKER	99.5	
14	ANTE-ROOM CLEAN	99.3	
114	ANTEROOM, CLEAN	99.3	
114	ANTE-ROOM CLEAN	99.3	
114	ANTEROOM, CLEAN	99.7	
115	CLEAN WORKROOM, ASSEMBLY	99.3	
115A	STEAM STERILIZER	99.3	
116	CLEAN HAC	99.3	
117	STERILE INSTRUMENT STORAGE	99.3	
118	LOGISTICS STORAGE ROOM	99.3	
119	STEAM STERILIZATION AREA	99.3	
120	CART HOLDING	99.3	
120A	CART WASH	99.3	
120A	MANUAL CART WASH	99.3	
122	SOLIED HAC	99.3	
122	BIOHAZARD	99.7	
123	DETERGENT	99.3	
124	CART HOLDING	99.3	
124	CART HOLDING	99.3	
125	ANTEROOM, SOILED TRANSITION/DROP-OFF	99.3	
125	ANTEROOM, SOLIED TRANSITION/DROP OFF	99.3	
125	ANTEROOM, SOILED TRANSITION/DROP-OFF	99.3	
125	ANTEROOM, SOILED TRANSITION/DROP-OFF	99.3	
125	BIOHAZARD	99.7	
125	BIOHAZARD	99.7	
126	SCOPE PROCESSING DECONTAMINATION ROOM	99.3	

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SIGNAGE GE
1. ALL SIGNAGE IDENTIFYING P STANDARD FOR ACCESSIBLE
2. ALL PERMANENT ROOM SIGN SECTION BRAILLE. BRAILLE T
3. ALL SIGNS TO BE MOUNTED IF NO SPACE EXISTS ON LAT WALL.
4. SIGNS MUST BE 2" FROM DOC OF SIGN.
5. ALL SIGN TEXT AND NUMBERI
6. ALL SIGNS MOUNTED TO GLA
7. SIGNS TO BE MOUNTED ACCO INSTRUCTIONS AND MATERIA
8. SIGN DRAWINGS AND DETAIL OWNER PROVIDED UNDER SI

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e of ction ilities	Drawing Title WAYFINDING MESSAGE SCHEDULES & SIGNAG	Phase BID DOCUMI	Project Title CONSTRUCT N			
Pepartment erans s	Approved:		FULLY SPRI	NKLERED	Location SiOUX Falls, SD. Issue Date 08/04/2022	Checked Chec
	7		8		9	

# ENERAL NOTES

PERMANENT ROOMS SHALL COMPLY WITH 2010 LE DESIGN.

GNAGE TO HAVE TOP SECTION RAISED TEXT AND LOWER E TO BE GRADE 2.

D ON LATCH SIDE OF DOOR UNLESS NOTED OTHERWISE. TCH SIDE MOUNT SIGN TO THE NEAREST ADJACENT

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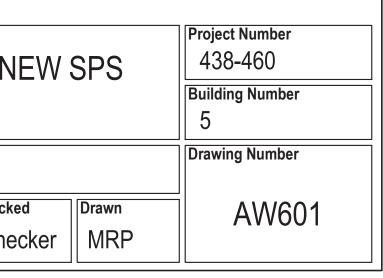
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OOR JAMB WITH 18" CLEAR FLOOR SPACE FROM CENTER

RING SUBJECT TO FINAL APPROVAL BY OWNER. ASS TO HAVE GLASS BACKER.

CORDING TO MANUFACTURERS INSTALLATION IALS.

AILS ARE FOR REFERENCE ONLY. SIGNAGE TO BE OWNER PROVIDED UNDER SEPARATE CONTRACT.

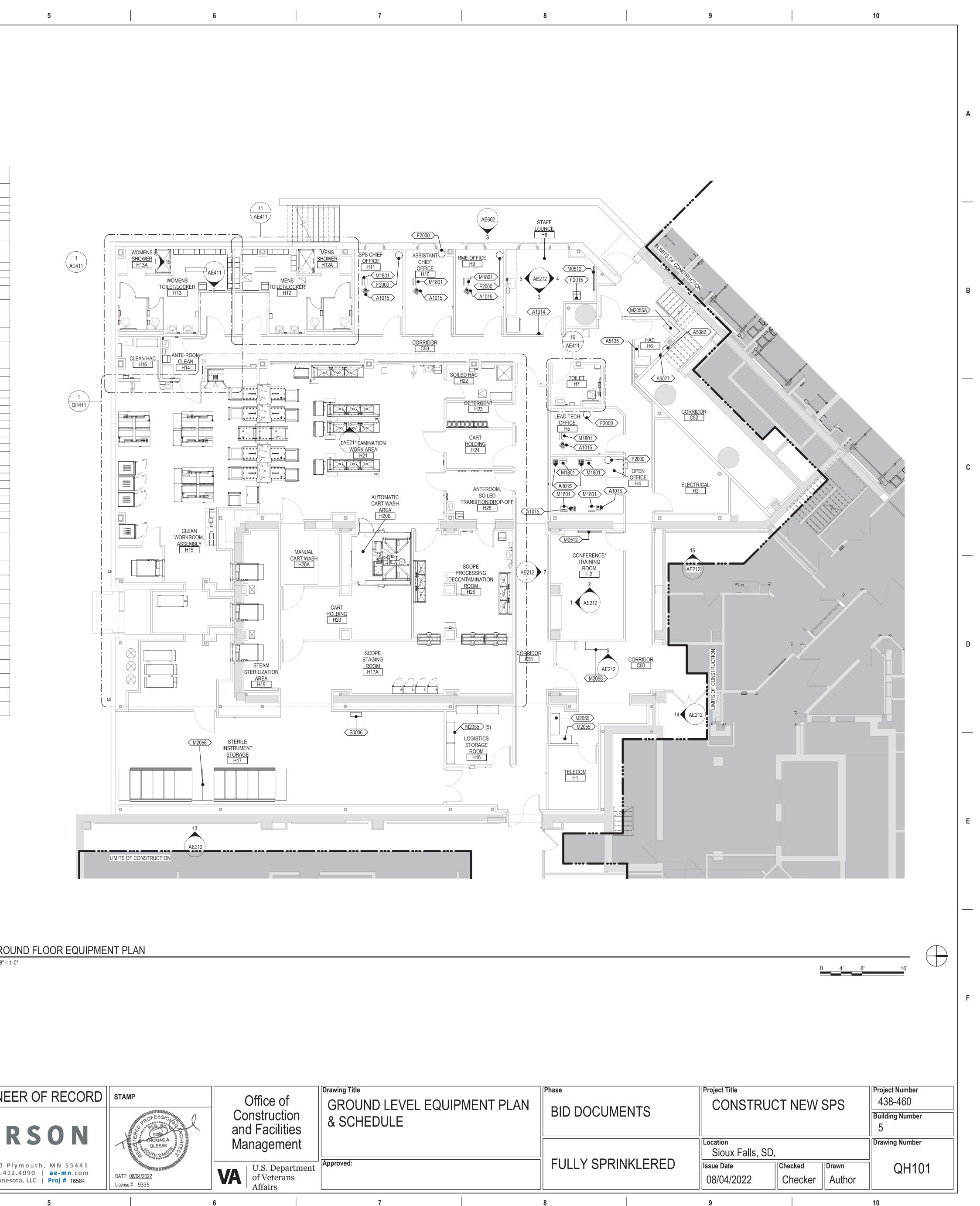


VA ACQUISITION CODE LEGEND CONTRACTOR FURNISHED AND INSTALLED	CC					
VA FURNISHED - CONTRACTOR INSTALLED VA FURNISHED AND INSTALLED	VC V V					
VA FURNISHED - CONTRACTOR INSTALLED WITH CONSTRUCTION FUND VA FURNISHED - VA INSTALLED WITH CONSTRUCTION FUNDS	S VC(CF) V V(CF)					
RELOCATED SEE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONTRACTOR FU AND CONTRACTOR INSTALLED (CC) EQUIPMENT NOT INDICATED ON EQU SCHEDULE.	R					
		EQUIPMENT SCHEDULE				
EQUIPMENT # EQUIPMENT NAME A0018 RENNCO HEAT SEALER	MANUFACTUREF RENCO	R DESCRIPTION RENNCO HEAT SEALER	ACQUISITION CODE V V	QTY 1	ROOM # H15	ROOM NAME CLEAN WORKROOM, ASSEMBLY
A1014 TELEPHONE, WALL MOUNTED A1015 TELEPHONE, DESK A1195 AMSCO 50 STAINLESS STEEL 3 COMPARTMENT SINK	STERIS	Amsco 50 Reprocessing Sink - 3 Bay/120" Long/Height Adjustable/Left to Right	V V V V V C	7 8 4	H21	DECONTAMINATION WORK AREA
120" A1195A AMSCO 50 STAINLESS STEEL 3 COMPARTMENT REPROCESSING SINK 97.5"	Corporation STERIS Corporation	<ul> <li>Work Flow (Delivery may be restricted by hallway width. STERIS installation and delivery teams to verify prior to shipping.)</li> <li>Amsco 50 Reprocessing Sink - 3 Bay/97.5" Long/Height Adjustable/Left to Right Work Flow</li> </ul>	VC	2	H26	SCOPE PROCESSING DECONTAMINATION
A5075 SOAP DISPENSER A5077 HAND SANITIZER DISPENSER			V V V V	11		
A5082 HANDS FREE PAPER TOWEL DISPENSER A5090 SANITARY NAPKIN DISPOSAL			V V V V	12 3		
A5135 MOP HOLDER WITH SHELF	Bradley Corporation	Utility Shelf w/2 Hooks 3 Holders & 1 Drying Rod - 30" W	VC	3		
A5145 HOOK, GARMENT, DOUBLE		A SURFACE MOUNTED, SATIN FINISH STAINLESS STEEL, GARMENT HOOK, WITH A CONCEALED MOUNTING BRACKET THAT IS SECURED TO A CONCEALED WALL PLATE. FOR GENERAL PURPOSE	VC	12		
A5202 TOILET PAPER HOLDER 2 ROLL WITH SHELF F0048 TRANSFER CART	STERIS	Reliance Transfer Cart	V V V V	5		
F2000 TRASH CAN 16" DIA	Corporation	Wastepaper basket, fire resistant, approximately 40 quart capacity. This unit is used to collect and temporarily store small quantities of paper refuse in patient rooms, administrative areas and nursing stations. Size and shape varies	VV	6		
F2010 BASKET, WASTE PAPER, STEP-ON F2015 TRASH CAN 18"x18"		depending on the app STEP ON TRASH CAN METAL OR PLASTIC WASTEPAPER BASKET WITH SWING DOORS AND	V V V V	1	H7	TOILET
F2700 BAR CODE READER		REMOVABLE LID, 18" X 18"	VV	9		
F3200 CLOCK, BATTERY, 12IN DIA M0512 FLAT SCREEN MONITOR 60" WITH WALL BRACKET M1801 COMPLITER WITH FLAT PANEL MONITOR			V V V V V V	1 4 14	H8	STAFF LOUNGE
M1801 COMPUTER WITH FLAT PANEL MONITOR M1803 WALL MOUNTED COMPUTER WORKSTATION M2055 WIRE SHELVING 48"X 18"		STROAGE RACK	V V V V V C	14 6 9		
M2055A WIRE SHELVING 36"x18" M2055A HIGH DENSITY SHELVING SYSTEM		STROAGE RACK STROAGE RACK 78"H X 108"D X 156"W TOTAL	V C V C V V	9 5 2	H17	STERILE INSTRUMENT STORAGE
M3160 MEDIVATOR ADVANATAGE PLUS AER SCOPE DRYING CABINET	CANTEL MEDICA	L ADVANTAGE PLUS AER - Single-side	VC	4	H17A	SCOPE STAGING ROOM
R7250 REFRIGERATOR S0002 3M ATTEST AUTO READER 390		REFRIGERATOR 3M ATTEST AUTO READER 390	V V V V	1	H8 H15	STAFF LOUNGE CLEAN WORKROOM, ASSEMBLY
S0003 CENSATRAC SCANNER CHARGING STATION S0004 INCUBATOR, BIOLOGICAL INDICATOR		CENSATRAC SCANNER CHARGING STATION INCUBATOR, BIOLOGICAL INDICATOR	V V V V	1	H15 H15	CLEAN WORKROOM, ASSEMBLY CLEAN WORKROOM, ASSEMBLY
S0005 STRYKER BATTERY CHARGING STATION S0006 TEE PROBE STORAGE CABINET		STRYKER BATTERY CHARGING STATION TEE PROBE STORAGE CABINET	V V V C	2	H15 H17	CLEAN WORKROOM, ASSEMBLY STERILE INSTRUMENT STORAGE
S0007         COUNTERTOP ULTRASONIC CLEANER           S0046         STERIS AMSCO DRYING CABINET	STERIS Corporation	COUNTERTOP ULTRASONIC CLEANER Amsco Drying Cabinet - 38"/Single Door (110-120 Volt/20 Amp Dedicated Wall Plug)	V V V C	1	H21 H15	DECONTAMINATION WORK AREA CLEAN WORKROOM, ASSEMBLY
S0442 AMSCO 600 STEAM STERLISER - 26.5x26.5x63"	STERIS Corporation	Plug) Amsco 600 Medium Steam Sterilizer - 26.5x26.5x63" (673x673x1600mm)/Single Sliding Door/Recessed/Steam Heat	VC	4		
S0495 STERIS AMSCO 600 LOADING / TRANSFER CART	STERIS Corporation	Amsco 600 Loading Car and Transfer Carriage - 26.5x26.5x63"/Fixed Height	VV	4	H15	CLEAN WORKROOM, ASSEMBLY
S0940 STERIS AMSCO 7052HP WASHER / DISINFECTOR S0940A AMSCO AIR MANAGEMENT SYSTEM	STERIS CORPORATION STERIS	AMSCO 7052HP SINGLE-CHAMBER WASHER/DISINFECTOR - DOUBLE DOOR/STEAM HEAT/VENTED/FLUSH MOUNTED	V C	4	H21	DECONTAMINATION WORK AREA
S0940A AMSCO AIR MANAGEMENT SYSTEM	STERIS CORPORATION STERIS	SCS Load/Unload Conveyor System - Single Load/Single Unload	V C	2	H21 H21	DECONTAMINATION WORK AREA
S0942 STERIS MOTORIZED RETURN CONVEYOR SYSTEM	Corporation STERIS	SCS Load/Onload Conveyor System - Single Load/Single Onload SCS-L Motorized Return Conveyor System - 3 Module/Return Door/Flush Mounted	VC	4	H21	DECONTAMINATION WORK AREA
WITH DOOR           S1905         STERRIS AUTOMATED PASS THOUGH WINDOW 34"x45"	Corporation STERIS	STERIS Automated Pass-Through Window - Endoscopy Application (40x45"	VC	1	H15	CLEAN WORKROOM, ASSEMBLY
S2627 ADVANTAGE PLUS PASS-THRU ENDOSCOPE REPROSSER	Corporation CANTEL MEDICAI	Window)           L         ADVANTAGE PLUS Pass-Thru Reprocessor, 230V (with air compressor)	VC	3	H26	SCOPE PROCESSING DECONTAMINATION ROOM
S2628 STERIS ACU-HOLD SYSTEM - WALL MOUNTED 3 CONTAINER	STERIS Corporation	Acu-Hold System - Wall Mounted/ 3 Container	VC	4	H23	DETERGENT
S2635 INNOWAVE ULTRASONIC IRRIGATOR & CLEANER	STERIS Corporation	InnoWave Unity Ultrasonic Irrigator - 15 Gallon	VC	4	H21	
S3185 STERIS VISSION 1327 CART AND UTENSIL WASHER	STERIS Corporation	Vision 1327 Cart and Utensil Washer/Disinfector - Standard Orientation/Double Door/Pit Mounted	V C	1	H20B	
S5505 STERIS AMSCO V-PRO MAX LOW TEMP STERILIZER S9610 AMSCO PREP AND PACK WORK STATION 36' X 72"	STERIS Corporation STERIS	Amsco V-PRO Max Low Temperature Sterilization System - Single Door/Cabinet Amsco Deluxe Prep and Pack Workstation - 36x72"/Electric	V C	4	H15 H15	CLEAN WORKROOM, ASSEMBLY CLEAN WORKROOM, ASSEMBLY
(ELECTRIC)	Corporation					
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	NSULT/				A	ARCHITECT/ENGINE
		MEG				<b>ANDER</b>
						13605 1st Ave. N. #100 Pl

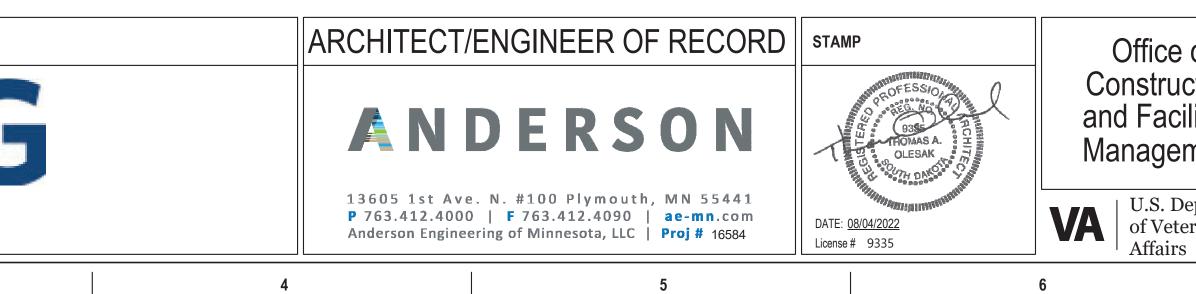
**Revisions:** 

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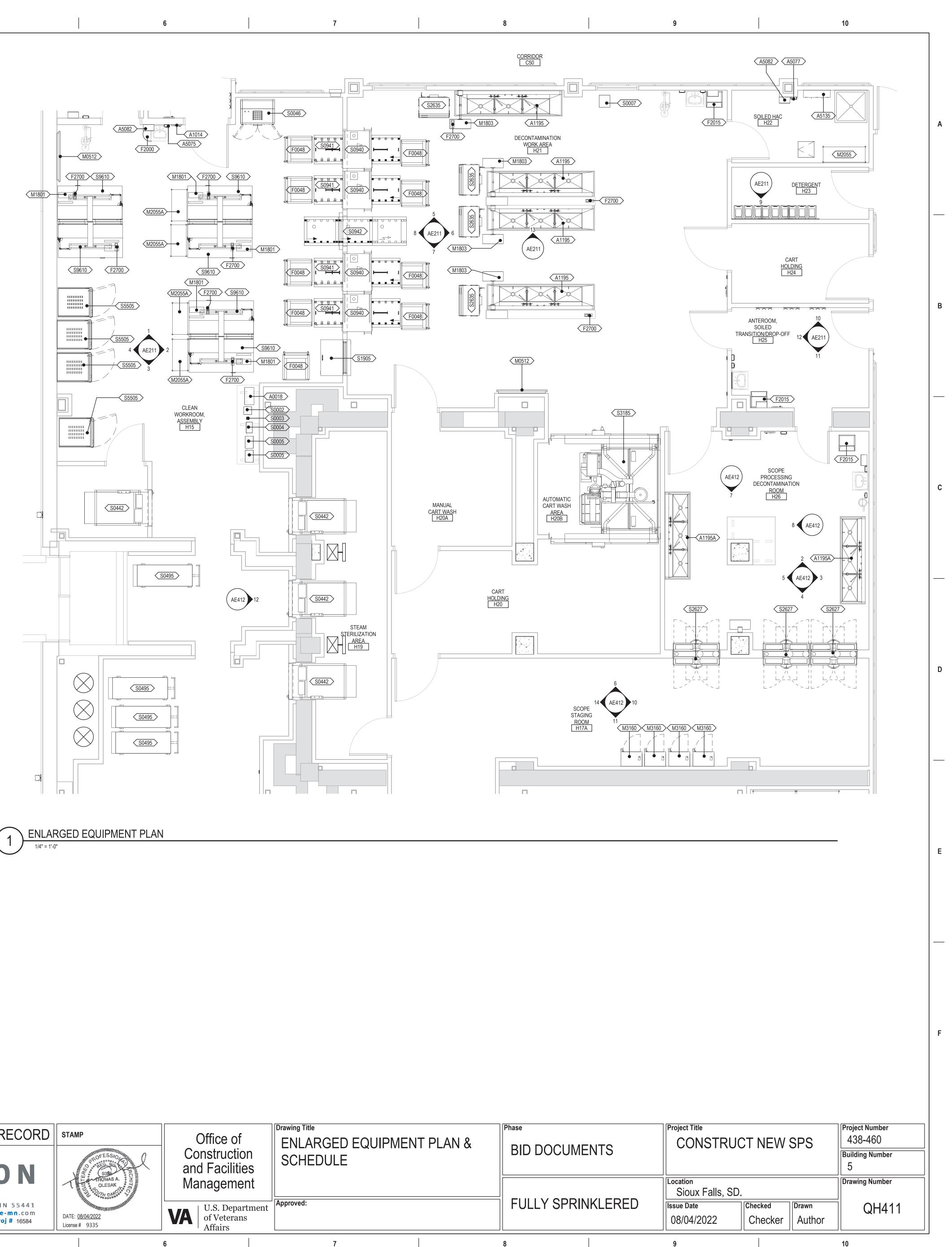
ROUND FLOOR EQUIPMENT PLAN

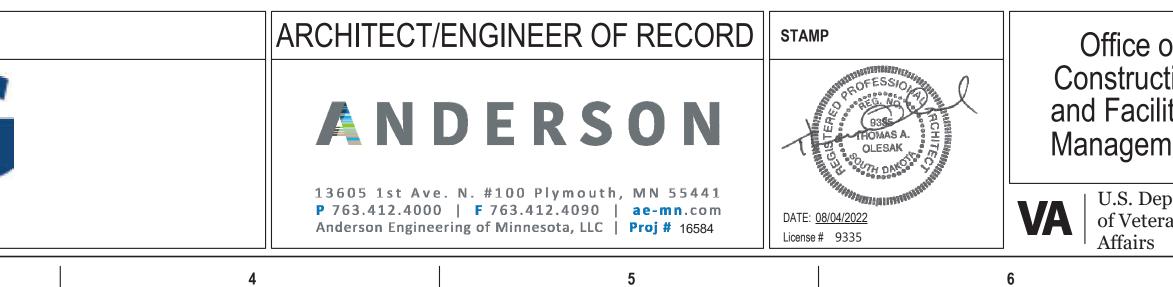


	Drawing Title	Phase	P	roject Title	
e of uction cilities	GROUND LEVEL EQUIPMENT PLAN & SCHEDULE		ITS	CONSTRUCT NE	
ement				ocation Sioux Falls, SD.	
Department	Approved:	FULLY SPRINK	KLERED 🛛 🕅	ssue Date	Checked
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		ACQUISITION CODE LEGEND							
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A	VA VA	FURNISHED - CONTRACTOR INSTALLED WITH CONSTRUCTION F FURNISHED - VA INSTALLED WITH CONSTRUCTION FUNDS	UNDS VC(CF) V V(CF)						
	SEE AND	LOCATED DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONTRACTO CONTRACTOR INSTALLED (CC) EQUIPMENT NOT INDICATED ON							
	SURI	EDULE.							
				EQUIPMENT SCHEDULE	ACQUISITION			< <u>M1801</u>	
	EQUI	PMENT #     EQUIPMENT NAME       A0018     RENNCO HEAT SEALER       A1014     TELEPHONE, WALL MOUNTED	MANUFACTURE RENCO	ER DESCRIPTION RENNCO HEAT SEALER	CODE QTY	ROOM # H15 CL	ROOM NAME EAN WORKROOM, ASSEMBLY		
		A1015 TELEPHONE, DESK A1195 AMSCO 50 STAINLESS STEEL 3 COMPARTMENT SINK 120"	STERIS Corporation	Amsco 50 Reprocessing Sink - 3 Bay/120" Long/Height Adjustable/Left to Righ Work Flow (Delivery may be restricted by hallway width. STERIS installation an delivery teams to verify prior to shipping.)	VV         8           t         VC         4           nd	H21 DE	CONTAMINATION WORK AREA		
		A1195A AMSCO 50 STAINLESS STEEL 3 COMPARTMENT REPROCESSING SINK 97.5" A5075 SOAP DISPENSER	STERIS Corporation	Amsco 50 Reprocessing Sink - 3 Bay/97.5" Long/Height Adjustable/Left to Rigl Work Flow	VV 11	H26 SC RC	OPE PROCESSING DECONTAMINATION OM		
В		A5077 HAND SANITIZER DISPENSER A5082 HANDS FREE PAPER TOWEL DISPENSER A5090 SANITARY NAPKIN DISPOSAL A5135 MOP HOLDER WITH SHELF	Bradlov	Utility Shelf w/2 Hooks 3 Holders & 1 Drying Rod - 30" W	V V         8           V V         12           V V         3           V C         3				
		AS133 MOP HOLDER WITH SHELF AS145 HOOK, GARMENT, DOUBLE	Bradley Corporation	A SURFACE MOUNTED, SATIN FINISH STAINLESS STEEL, GARMENT HC WITH A CONCEALED MOUNTING BRACKET THAT IS SECURED TO A					
		A5202 TOILET PAPER HOLDER 2 ROLL WITH SHELF F0048 TRANSFER CART	STERIS Corporation	CONCEALED WALL PLATE. FOR GENERAL PURPOSE Reliance Transfer Cart	VV 5 VV 9				
		F2000 TRASH CAN 16" DIA		Wastepaper basket, fire resistant, approximately 40 quart capacity. This unit is used to collect and temporarily store small quantities of paper refuse in patient rooms, administrative areas and nursing stations. Size and shape varies depending on the app	V V 6				
		F2010 BASKET, WASTE PAPER, STEP-ON F2015 TRASH CAN 18"x18"		STEP ON TRASH CAN METAL OR PLASTIC WASTEPAPER BASKET WITH SWING DOORS AND REMOVABLE LID, 18" X 18"	V V         1           V V         7	Н7 ТО	LET		
		F2700       BAR CODE READER         F3200       CLOCK, BATTERY, 12IN DIA         M0512       FLAT SCREEN MONITOR 60" WITH WALL BRACKET         M1801       COMPUTER WITH FLAT PANEL MONITOR			V V         9           V V         1           V V         4           V V         14	H8 ST	AFF LOUNGE		
		M1803 WALL MOUNTED COMPUTER WORKSTATION M2055 WIRE SHELVING 48"X 18" M2055A WIRE SHELVING 36"x18"		STROAGE RACK STROAGE RACK	VV         6           VC         9           VC         5				
с		M2056 HIGH DENSITY SHELVING SYSTEM M3160 MEDIVATOR ADVANATAGE PLUS AER SCOPE DRYING CABINET	CANTEL MEDIC		VC 4	H17A SC	ERILE INSTRUMENT STORAGE OPE STAGING ROOM		
		R7250       REFRIGERATOR         S0002       3M ATTEST AUTO READER 390         S0003       CENSATRAC SCANNER CHARGING STATION         S0004       INCUBATOR, BIOLOGICAL INDICATOR		REFRIGERATOR         3M ATTEST AUTO READER 390         CENSATRAC SCANNER CHARGING STATION         INCUBATOR, BIOLOGICAL INDICATOR	V V         1           V V         1	H15 CL H15 CL	AFF LOUNGE EAN WORKROOM, ASSEMBLY EAN WORKROOM, ASSEMBLY EAN WORKROOM, ASSEMBLY		
		S0005STRYKER BATTERY CHARGING STATIONS0006TEE PROBE STORAGE CABINETS0007COUNTERTOP ULTRASONIC CLEANER		STRYKER BATTERY CHARGING STATION         TEE PROBE STORAGE CABINET         COUNTERTOP ULTRASONIC CLEANER	V C 1 V V 1	H17 ST H21 DE	EAN WORKROOM, ASSEMBLY ERILE INSTRUMENT STORAGE CONTAMINATION WORK AREA		
		S0046       STERIS AMSCO DRYING CABINET         S0442       AMSCO 600 STEAM STERLISER - 26.5x26.5x63"	STERIS Corporation STERIS Corporation	Amsco Drying Cabinet - 38"/Single Door (110-120 Volt/20 Amp Dedicated Wall Plug) Amsco 600 Medium Steam Sterilizer - 26.5x26.5x63" (673x673x1600mm)/Sing Sliding Door/Recessed/Steam Heat		H15 CL	EAN WORKROOM, ASSEMBLY		
		S0495STERIS AMSCO 600 LOADING / TRANSFER CARTS0940STERIS AMSCO 7052HP WASHER / DISINFECTOR	STERIS Corporation STERIS CORPORATION	Amsco 600 Loading Car and Transfer Carriage - 26.5x26.5x63"/Fixed Height AMSCO 7052HP SINGLE-CHAMBER WASHER/DISINFECTOR - DOUBLE DOOR/STEAM HEAT/VENTED/FLUSH MOUNTED			EAN WORKROOM, ASSEMBLY		
		S0940A       AMSCO AIR MANAGEMENT SYSTEM         S0941       STERIS WASHER / DISINFECTOR CONVEYOR SYSTEM	STERIS CORPORATION STERIS				CONTAMINATION WORK AREA		
		S0942 STERIS MOTORIZED RETURN CONVEYOR SYSTEM WITH DOOR S1905 STERRIS AUTOMATED PASS THOUGH WINDOW 34"x45"	Corporation STERIS Corporation STERIS	SCS-L Motorized Return Conveyor System - 3 Module/Return Door/Flush Mou STERIS Automated Pass-Through Window - Endoscopy Application (40x45"			CONTAMINATION WORK AREA		
D		S2627 ADVANTAGE PLUS PASS-THRU ENDOSCOPE REPROSSER S2628 STERIS ACU-HOLD SYSTEM - WALL MOUNTED 3	Corporation	Window) AL ADVANTAGE PLUS Pass-Thru Reprocessor, 230V (with air compressor) Acu-Hold System - Wall Mounted/ 3 Container	V C 3	H26 SC RC	OPE PROCESSING DECONTAMINATION OM TERGENT		
		CONTAINER S2635 INNOWAVE ULTRASONIC IRRIGATOR & CLEANER	Corporation STERIS Corporation	InnoWave Unity Ultrasonic Irrigator - 15 Gallon	V C 4	H21 DE	CONTAMINATION WORK AREA		
		S3185       STERIS VISSION 1327 CART AND UTENSIL WASHER         S5505       STERIS AMSCO V-PRO MAX LOW TEMP STERILIZER	STERIS Corporation STERIS Corporation	Vision 1327 Cart and Utensil Washer/Disinfector - Standard Orientation/Double Door/Pit Mounted Amsco V-PRO Max Low Temperature Sterilization System - Single Door/Cabir			TOMATIC CART WASH AREA		
 30:07 PM		S9610 AMSCO PREP AND PACK WORK STATION 36' X 72" (ELECTRIC)	STERIS Corporation	Amsco Deluxe Prep and Pack Workstation - 36x72"/Electric	VC 6	H15 CL	EAN WORKROOM, ASSEMBLY		
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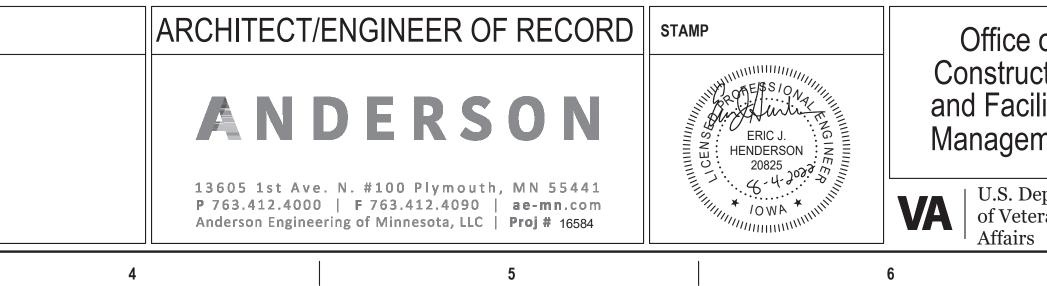
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		INDICATES DIRECTION OF TRUE NORTH
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'TAG'-E	TAGS WITH DASH 'E' IN	NDICATES THE REFERENCED OBJECT IS EXISTING
<u>TAG-1</u>		ICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL LABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST
<b>•</b>	INDICATES AN EXISTIN	IG SYSTEM'S POINT OF CONNECTION/REMOVAL
	CONTRACTO	R ABBREVIATION KEY
ABBR:	DESCRIPTION:	
A.C.	ASBESTOS ABATEMEN	T CONTRACTOR
C.C.	CIVIL CONTRACTOR	
C.O.R. E.C.	CONTRACTING OFFICE	
F.P.C.	FIRE PROTECTION CON	
G.C.	GENERAL CONTRACTO	R
M.C.	MECHANICAL CONTRAC	
P.C. T.C.	PLUMBING CONTRACTO	
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T.C.	TECHNOLOGY CONTRA	CTOR
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T.C. T.C.C. CONTR/	TECHNOLOGY CONTRA TEMPERATURE CONTR <b>APPLI</b> ACTOR SHALL COMPLY W	CTOR OLS CONTRACTOR CABLE CODES
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	FIRE PROTECTION SYMBOL LIST	MECHANICAL RENOVATION NOTES:	FIRE PROTECTION GENER
	NOT ALL SYMBOLS MAY APPLY.	THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.	1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CON
SYMBOL:	DESCRIPTION:	<ol> <li>EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND</li> </ol>	CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES A REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER
DFP	DRAIN	REPORT ANY CONFLICTS BEFORE PROCEEDING. 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS	<ol> <li>CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLET TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQ</li> </ol>
FP	FIRE PROTECTION	BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK. 3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE	RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIP
W	SERVICE WATER - POTABLE	FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.	TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FI
	PIPE CAP PIPE DOWN	4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND	3. CENTER SPRINKLERS IN CEILING TILES IN BOTH DIRECTION
	PIPE UP OR UP/DOWN	SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.	WITH 2'X4' CEILING TILES CENTERING USING A 2'X2' CEILING SPRINKLER HEADS SHALL BE ALIGNED WITH OTHER SPRINI
	UNION/FLANGE	<ol> <li>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS.</li> </ol>	DIFFUSERS, AND ANY OTHER FEATURES IN THE CEILING. 4. NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE, UNLE
	DIRECTION OF FLOW IN PIPE	CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING. 6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF	CONTRACTOR SHALL NOT MIX STANDARD RESPONSE SPRI RESPONSE SPRINKLERS IN UNPARTITIONED SPACES.
7	ROUTE TO DRAIN	CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO	<ol> <li>PROVIDE COVERAGE ABOVE AND BELOW ALL DUCTWORK (</li> <li>PROVIDE COVERAGE ABOVE (IF APPLICABLE) AND BELOW F</li> </ol>
∞	SHUTOFF VALVE NORMALLY OPEN	BIDDING. 7. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH	TO ARCHITECTURAL PLANS. 7. FIRE PROTECTION PIPE ROUTING IS SHOWN FOR GENERAL
∞	AUTOMATIC DRAIN VALVE	NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT	NUMBER OF SPRINKLERS, PIPE SIZING, AND PIPE ROUTING 8. ALL BUILDING AREA SHALL BE FULLY SPRINKLERED INCLUD
<b>—</b>	AIR PRESSURE MAINTENANCE DEVICE	DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.	OVERHANGS, SOFFITS, AND BUILDING PROJECTIONS. ALL A CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE
	AIR SUPERVISORY SWITCH	8. PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT	<ol> <li>EACH RISER ASSEMBLY SHALL INCLUDE CHECK VALVE BUT INDICATING "OPEN" OR "CLOSED" POSITION, TEST INSPECT</li> </ol>
	ANGLE VALVE	REMAIN ACTIVE. 9. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY	AND PRESSURE GAUGES. 10. WHERE FEASIBLE INSTALL PIPES HIGH AS POSSIBLE TO AV
жů	BUTTERFLY VALVE WITH MONITOR SWITCH	REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.	DISCIPLINES. 11. INSTALL SYSTEM DRAINS AT LOW POCKET AREAS CONTAIN
	CHECK VALVE	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	WATER OR MORE, PROVIDE WITH ISOLATION VALVE AND TH CONNECTION.
	BACKFLOW PREVENTER	CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY	12. MAIN PIPING PASSING BELOW SKYLIGHTS OR CLERESTORI
		DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. 11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT	13. FOLLOW STRUCTURAL DETAILS WHEN PENETRATING OR P STRUCTURAL ELEMENTS. ALTERNATE DESIGNS WILL NEED
v		THAT HAS BEEN REMOVED.	THE STRUCTURAL ENGINEER. 14. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS
	INSPECTOR TEST AND DRAIN VALVE	MECHANICAL GENERAL NOTES:	13 UNLESS OTHERWISE NOTED. 15. FINAL HEAD LOCATION, TYPE AND FINISH SHALL BE REVIEW
<u></u> ▲	OS&Y GATE VALVE	THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.	ARCHITECT. 16. A GRAPHIC ANNUNCIATOR PANEL SHALL BE PROVIDED TO
	OS&Y GATE VALVE WITH MONITOR SWITCH		PROVIDED WITH A PRE-ACTION OR CLEAN AGENT SYSTEM AREAS.
I ₽		<ol> <li>DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS.</li> </ol>	17. EXACT LOCATION OF THE ALL PANELS SHALL BE VERIFIED ( WITH THE ELECTRICAL CONTRACTOR.
	FLOW SWITCH	DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE	<ol> <li>PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR A ARCHITECT.</li> </ol>
₽	PRESSURE SWITCH	INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.	<ol> <li>THE OWNER MUST BE NOTIFIED PRIOR TO EACH AND EVER OF THE SPRINKLER SYSTEM.</li> </ol>
<b>→</b> ∞–₽	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)	<ol> <li>DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR</li> </ol>	20. THE CONTRACTOR SHALL PREPARE A COORDINATED SET ( SHALL OBTAIN APPROVAL FROM THE AUTHORITIES HAVING
	MONITOR SWITCH	PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE	LOCAL FIRE DEPARTMENT PRIOR TO ANY INSTALLATION. 21. DRAWING SHOW LOCATIONS OF EQUIPMENT, DUCTWORK,
	AREA BOUNDARY	CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO	DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT IN DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCT
		VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING	ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS R
NO HATCH	LIGHT HAZARD	WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE	INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CI CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
		4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MARE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.	22. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITE SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PH
	ORDINARY GROUP 1	5. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO	ALL DRAWINGS. INCLUDING THOSE OF OTHER TRADES.
		COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.	
	ORDINARY GROUP 2	<ol> <li>EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF</li> </ol>	
		DESIGN. 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY	
	DEMOLITION	AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.	
		<ol> <li>EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS</li> </ol>	
	SPRINKLER - WALL MOUNTED	RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.	
•	SPRINKLER	<ol> <li>IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE</li> </ol>	
		PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.	
FI	RE PROTECTION ABBREVIATION KEY	10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE	
ABBR:	DESCRIPTION:	SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.	
AD	ACCESS DOOR	11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES, THIS IS ESSENTIAL TO PREVENT NOISE	
AFF	ABOVE FINISHED FLOOR	TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.	
BFP	BACKFLOW PREVENTER	12. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL	
I.E.	INVERT ELEVATION	RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT	
N.C.	NORMALLY CLOSED	MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND	
NIC		REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.	
N.O. SCCR	NORMALLY OPEN SHORT CIRCUIT CURRENT RATING	<ol> <li>14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.</li> <li>15. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL</li> </ol>	
TYP	TYPICAL	EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS,	
UON	UNLESS OTHERWISE NOTES	TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS. 16. MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH	
		OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO	
	FIRE FLOW TEST DATA	THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING; DUCTWORK, PIPING, ETC.	
TEST DATE:	SEPTEMBER 16, 2019	17. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.	
LOCATION:	FIRE PUMP, FIRE PUMP ROOM, GROUND FLOOR, BUILDING 5	<ol> <li>DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE</li> </ol>	
STATIC PRES	ESSURE: 82 PSI	CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.	
TOTAL FLOW:			
SIZE OF MAIN	: 4" DIAMETER, ROUGHLY 320 FEET OF PIPE FROM FIRE PUMP TO WEST WING RISER		
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ce of ruction acilities	Drawing Title FIRE PROTECTION COVE	Phase BID DOCUME	CONSTRUCT NE			
gement	Approved:				Location Sioux Falls, SD.	
5. Department /eterans airs			FULLY SPRINKLERED		Issue Date 08/04/22	Checked BLAO
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## ION GENERAL NOTES:

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T ARE FOR THE CONVENIENCE OF THE /ERIFY QUANTITIES AND FURNISH ALL MATERIALS SYSTEMS, WHETHER SPECIFIED OR NOT. ONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID ATE THE QUALITY REQUIRED. CONTRACTOR IS RIPTION OF MATERIAL ON THESE DRAWINGS AND ERING. THE DESCRIPTION OF THE MATERIAL ALOG NUMBER. THE FIRST MANUFACTURER IS THE S IN BOTH DIRECTIONS IN ALL AREAS. IN AREAS

USING A 2'X2' CEILING PATTERN IS ACCEPTABLE. WITH OTHER SPRINKLER HEADS, LIGHTING, RES IN THE CEILING. ESPONSE TYPE, UNLESS OTHERWISE NOTED. ARD RESPONSE SPRINKLERS WITH QUICK IONED SPACES. OW ALL DUCTWORK GREATER THAN 48" WIDE. CABLE) AND BELOW FLOATING CEILINGS, REFER

HOWN FOR GENERAL LAYOUT. DETERMINE EXACT , AND PIPE ROUTING. SPRINKLERED INCLUDING CANOPIES, WALKWAYS, PROJECTIONS. ALL ACCESSIBLE COMBUSTIBLE PROTECTED BY THE SPRINKLER SYSTEM. DE CHECK VALVE BUTTERFLY CONTROL VALVE SITION, TEST INSPECTION VALVE, FLOW SWITCH

H AS POSSIBLE TO AVOID CONFLICT WITH OTHER CKET AREAS CONTAINING FIVE GALLONS OF LATION VALVE AND THREADED HOSE

HTS OR CLERESTORIES ARE NOT PERMITTED. PENETRATING OR PASSING THROUGH DESIGNS WILL NEED TO BE APPROVED THROUGH IRE SPRINKLER HEADS WHERE REQUIRED BY NFPA IISH SHALL BE REVIEWED AND APPROVED BY THE ALL BE PROVIDED TO INCLUDE AREAS BEING EAN AGENT SYSTEM WHICH HAVE CONCEALED SHALL BE VERIFIED ON SITE AND COORDINATED

H BACKGROUND OR AS DIRECTED BY THE

R TO EACH AND EVERY DRAINING OR RECHARGING COORDINATED SET OF SHOP DRAWINGS AND AUTHORITIES HAVING JURISDICTION AND THE ANY INSTALLATION.

PMENT, DUCTWORK, PIPING, ETC. ARE S REFLECT EXACT INSTALLATION CONDITIONS. ANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, SETS AND FITTINGS REQUIRED FOR COMPLETE . BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING THERS WILL PERMIT. NCES FROM ARCHITECTURAL, STRUCTURAL, TE DRAWINGS OR PHYSICALLY AT SITE. REVIEW

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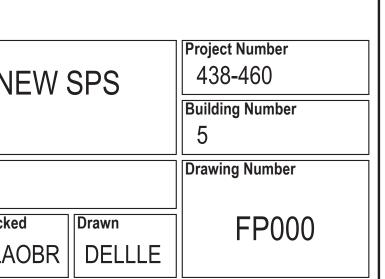
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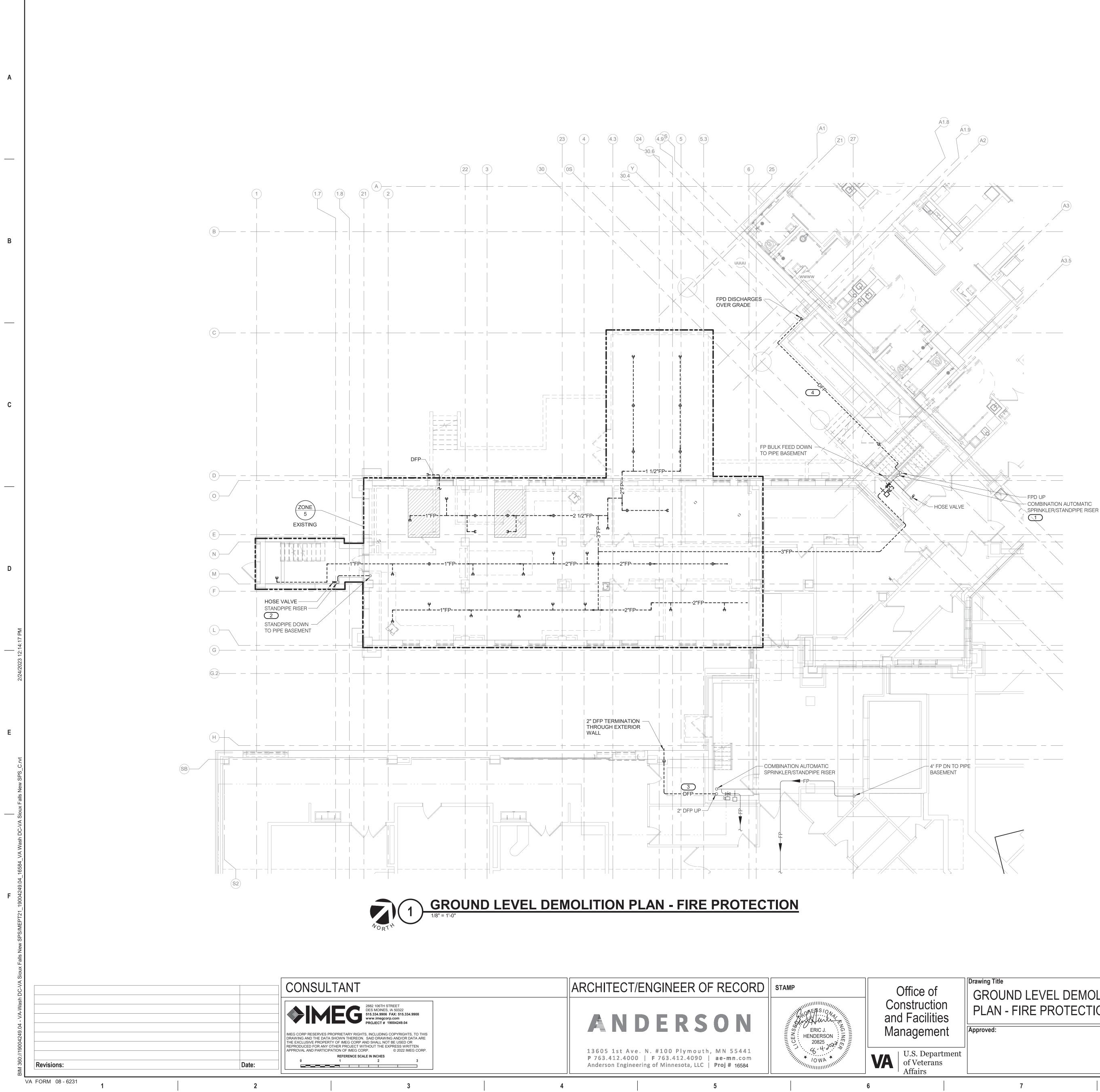
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Pepartment erans s	Approved:	FULLY SPRI	NKLERED	Location SiOux Falls, SD. Issue Date 08/04/22	Checke BLA
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## GENERAL FIRE PROTECTION NOTES:

 REFERENCE F000 – FIRE PROTECTION COVERSHEET FOR FIRE PROTECTION SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
 REMOVE MAIN SPRINKLER PIPE, BRANCHES, AND SPRINKLERS THROUGHOUT THE PROJECT AREA BACK TO RISER LOCATED IN STAIR #4.

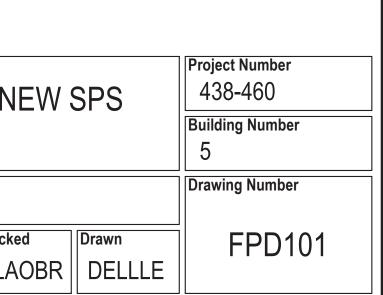
EXISTING PRESSURE GAUGE INSTALLED IN STAIR #4 READS 145 PSI AT THIS LEVEL. EXISTING STANDPIPE DOWN TO PIPE BASEMENT. HORIZONTAL PIPING SHOWN ROUTES ALONG FLOOR TO STANDPIPE RISER IN STAIR TOWER. REMOVE PIPING ON FLOOR AND PREPARE TO EXTEND PIPING FROM PIPE BASEMENT VERTICALLY TO ABOVE GROUND FLOOR CEILING BEFORE OFFSETTING HORIZONTALLY TO CONNECT TO STANDPIPE RISING UP THROUGH REMAINDER OF STAIR TOWER. REMOVE EXISTING STANDPIPE DRAIN PIPE FROM EXTERIOR WALL PENETRATION TO STAIRWELL. DRAIN WILL BE REROUTED TO MOP BASIN IN HAC G74-5.

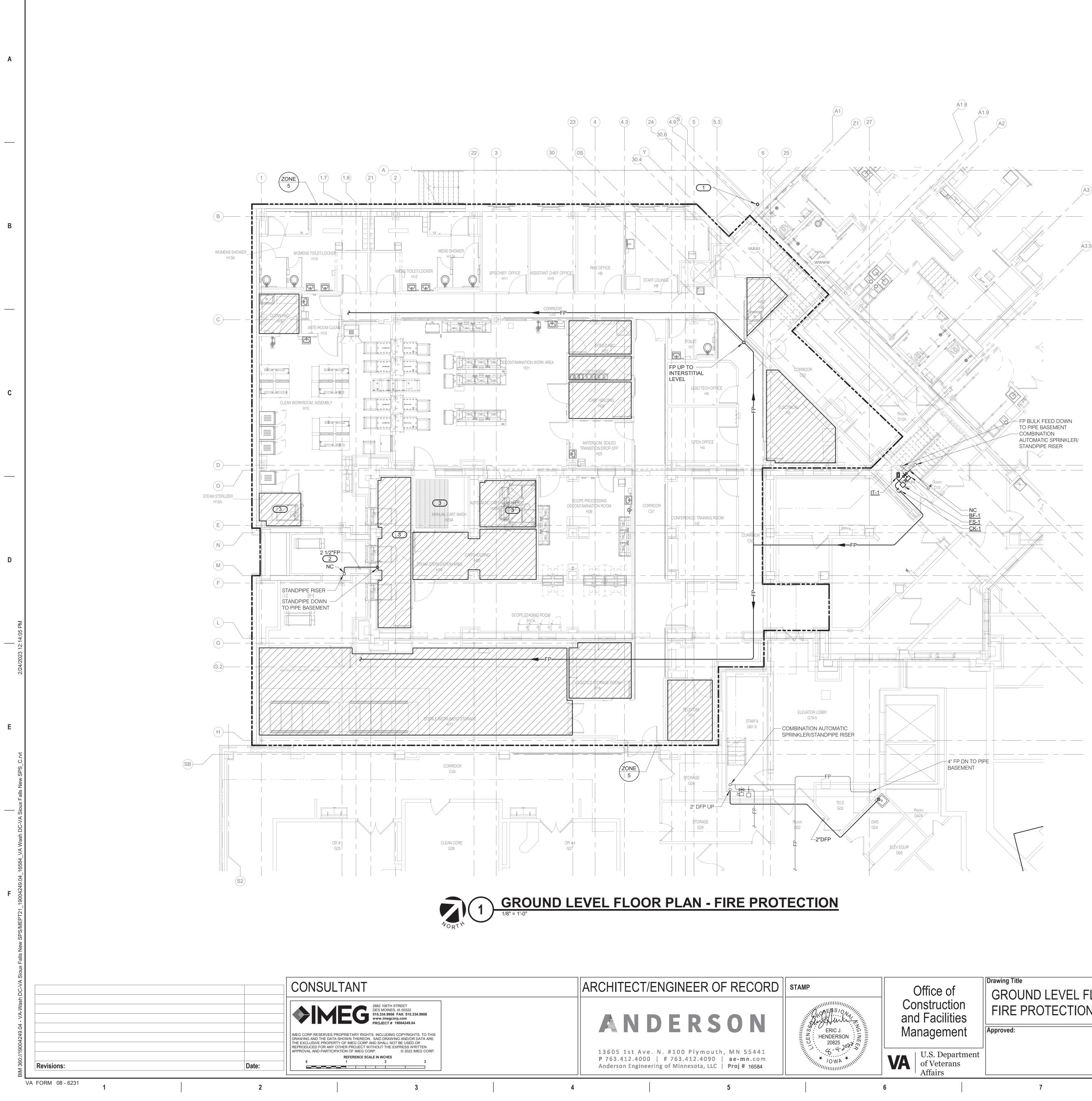
REMOVE 2" STANDPIPE DRAIN ROUTED ON EXTERIOR WALL. DRAIN SHALL BE REROUTED THROUGH NEW INTERSTITIAL LEVEL MECHANICAL ROOM AS SHOWN ON FP111.

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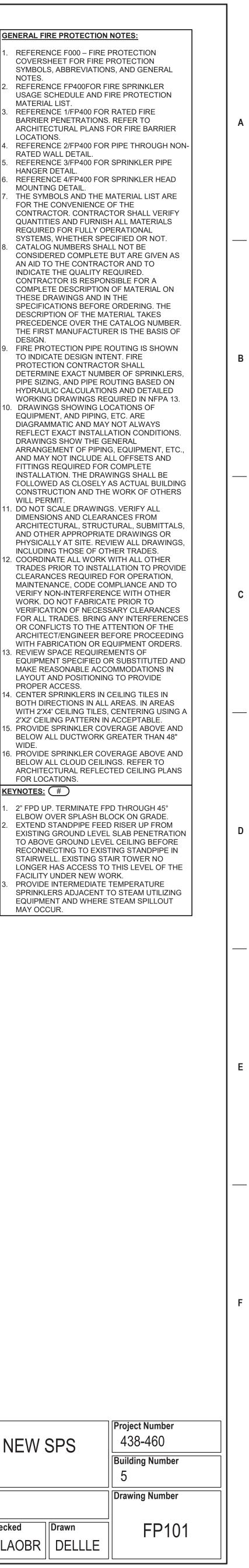


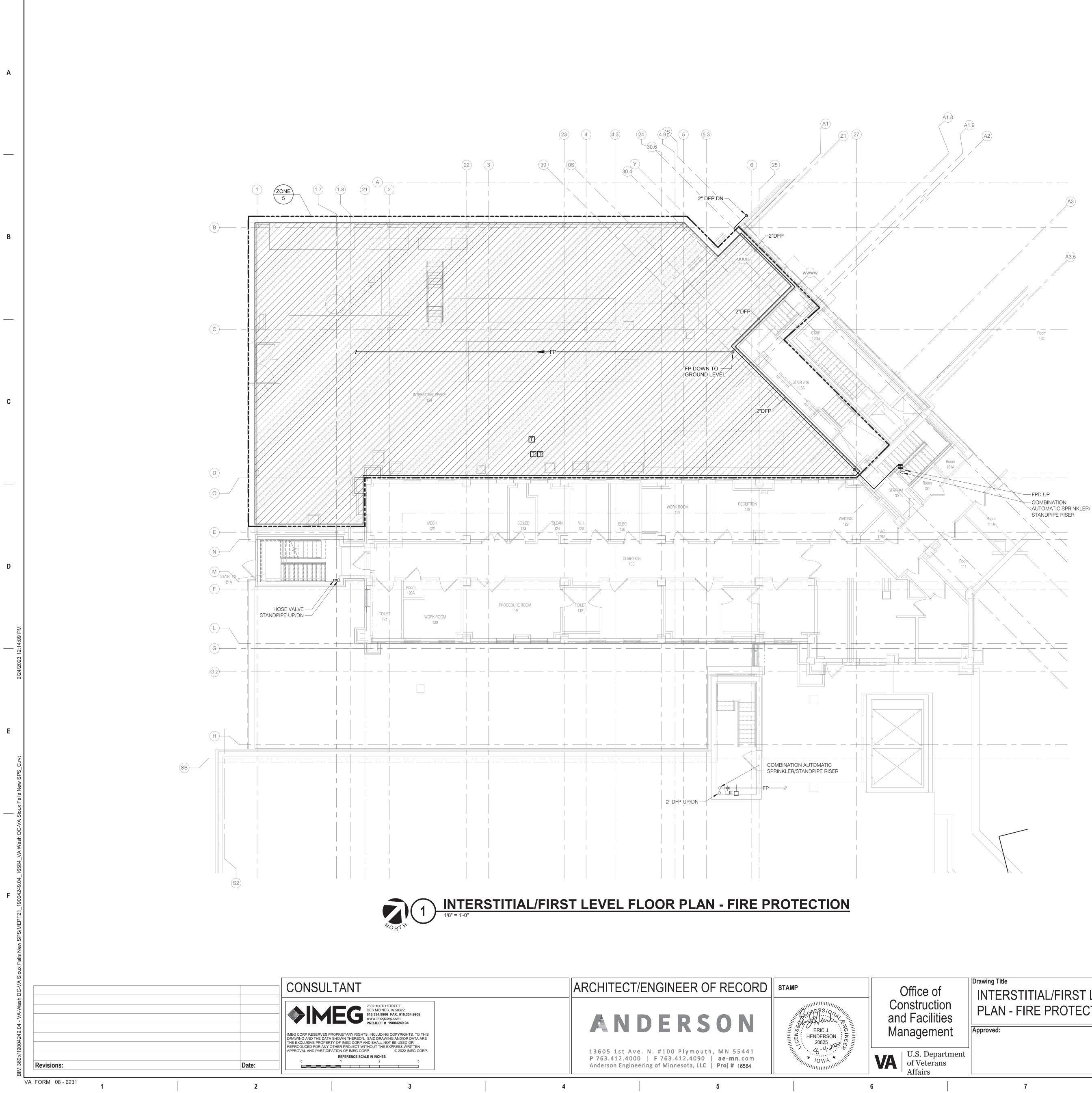


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ment	Approved:			Location Sioux Falls, SD.	
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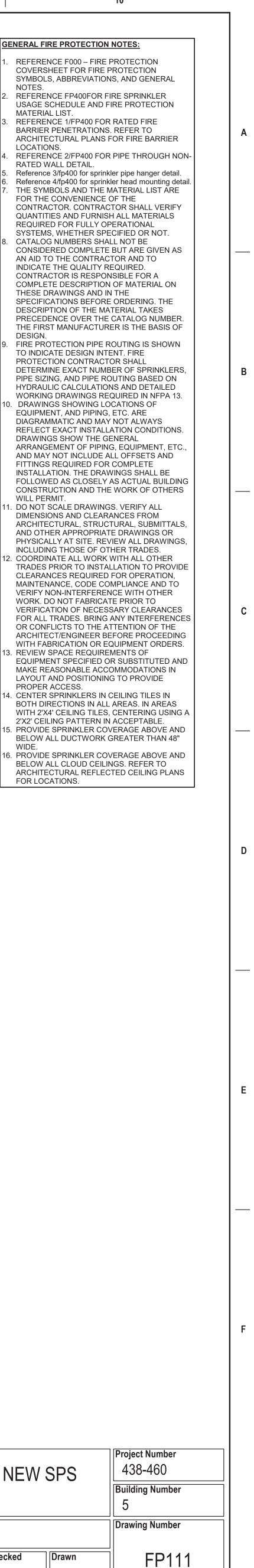
<ol> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEE</u></li> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	2.	
<ol> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEE</u></li> <li>1.</li> </ol>	3.	
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<ol> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEY</u></li> <li>1.</li> </ol>	5.	
<ol> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEY</u></li> <li>1.</li> </ol>	6	
<ol> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEY</u></li> <li>1.</li> </ol>		
<ul> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEY</u></li> <li>1.</li> </ul>	7.	
<ul> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>KEY</li> <li>1.</li> </ul>	8.	
<ul> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li><u>KEY</u></li> <li>1.</li> </ul>	9.	
12. 13. 14. 15. 16. <b>KE</b> Y	10.	
13. 14. 15. 16. <b>KE</b> Y	11.	
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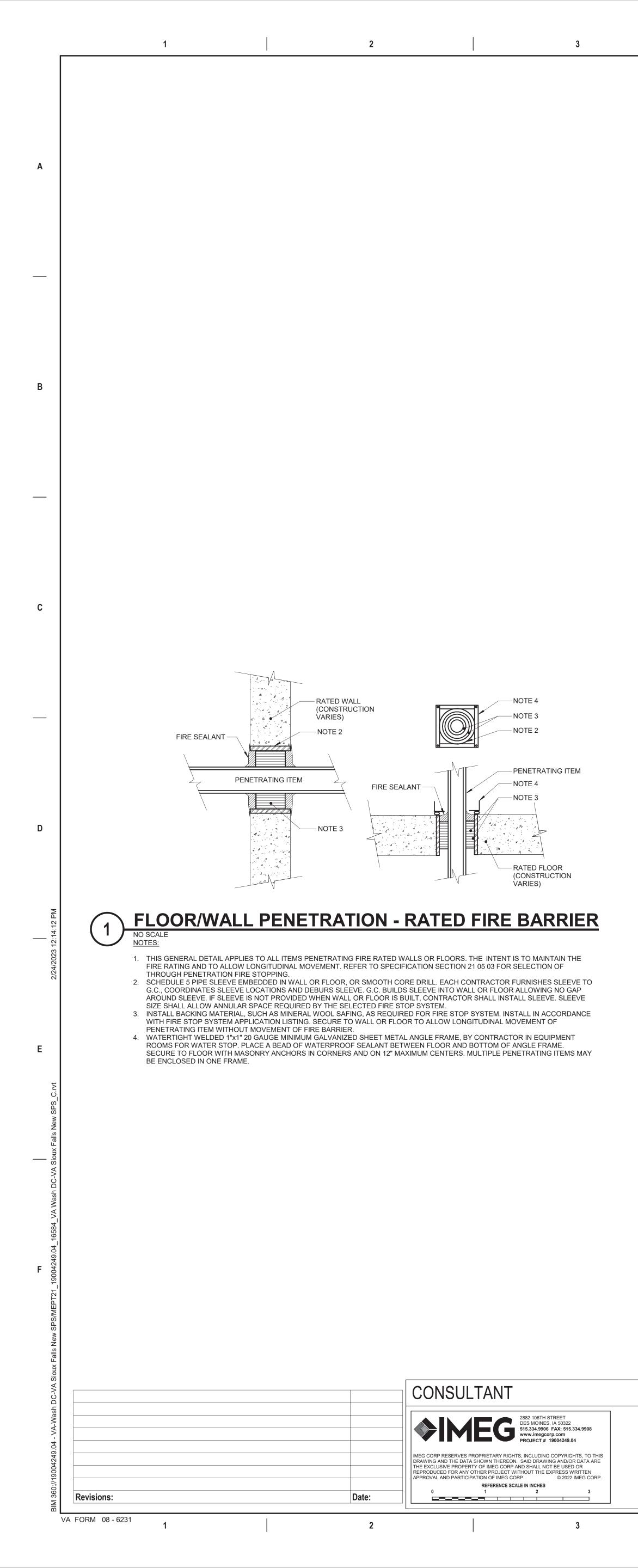




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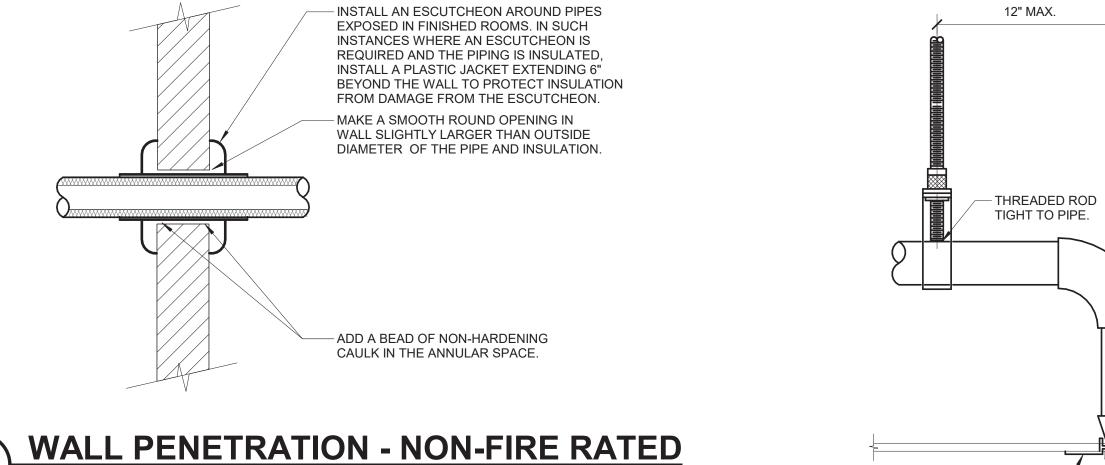
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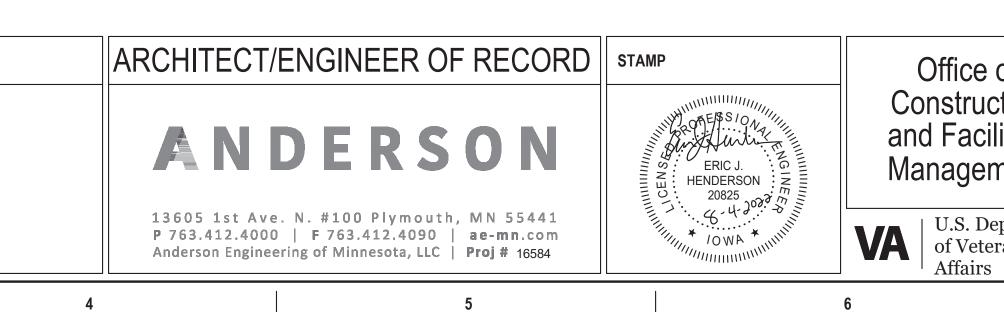
(NOTE 2)

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( 2 ) NO SCALE NOTES:

- 1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
- 2. SEE SPECIFICATION SECTION 21 13 13 FOR ADDITIONAL INFORMATION. 3. FLOOR OPENINGS ARE SIMILAR, SEE SPECIFICATION SECTION 21 13 13 FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.



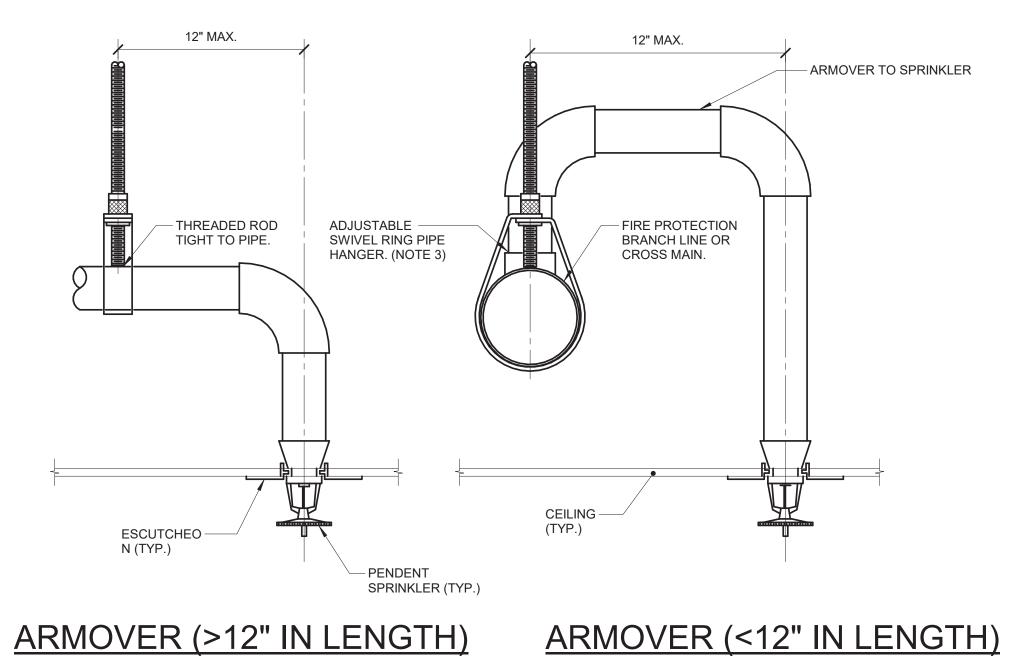
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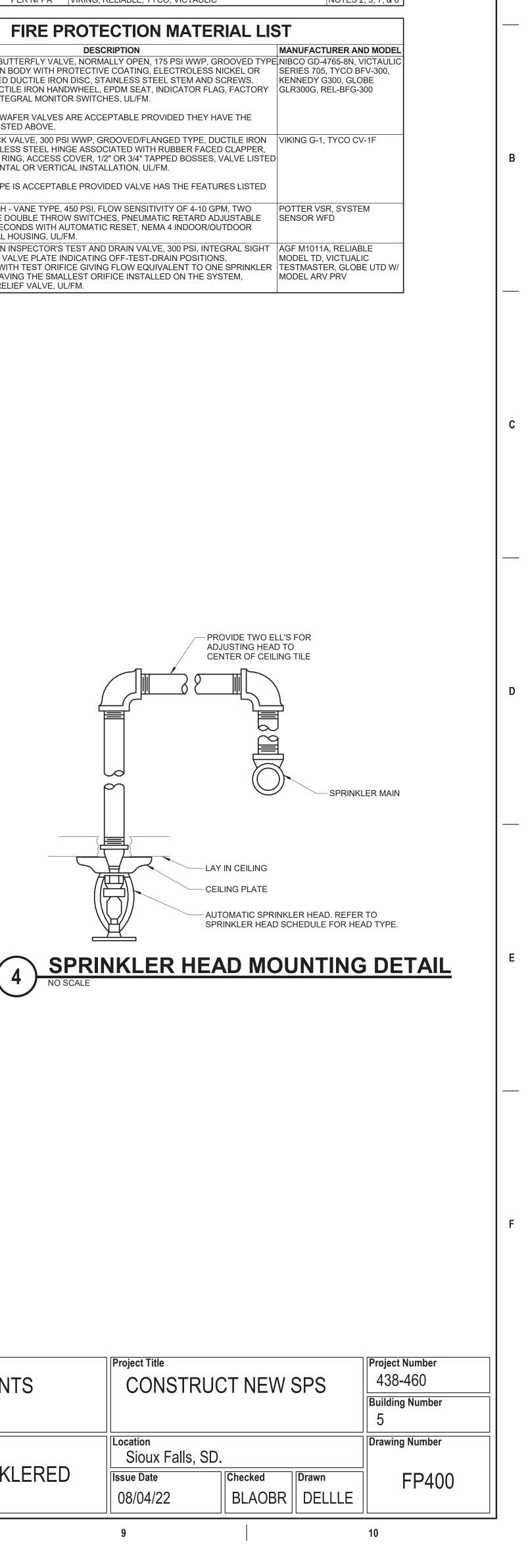
## FIRE SPRINKLER USAGE SCHEDULE

1.SEE FLOOR PLANS FOR ZONING REQUIREMENTS. 2.SPRINKLER SHALL HAVE COLOR CODED BULB THERMAL ELEMENT.

3.ALL SPRINKLERS SHALL BE UL LISTED. 4.CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, ARCHITECTURAL CEILING PLAN AND NFPA 13 REQUIREMENTS. 5.TAG NAME IS PRIMARILY FOR IDENTIFIYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED. 6.AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.

			SPRINKI	ER				
AREA TYPE (NOTE 1 & 6)	AREA HAZARD	TAG NAME (NOTE 4 & 5)	SPRINKLER TYPE	RESPONSE CATEGORY	FINISH	TEMPERATURE RATING	MANUFACTURER & MODEL	NOTES
WITH CEILINGS OPEN TO STRUCTURE	SEE PLANS	SPR-1	UPRIGHT	QUICK	ROUGH BRASS	PER NFPA	VIKING, RELIABLE, TYCO, VICTAULIC	NOTES 2, 3, 7, & 8
REAS WITH SUSPENDED CEILINGS	SEE PLANS	SPR-2	RECESSED PENDENT	QUICK	CHROME PLATED	PER NFPA	VIKING, RELIABLE, TYCO, VICTAULIC	NOTES 2, 3, 7, & 8
ELECTRICAL AND IT ROOMS	SEE PLANS	SPR-3	RECESSED SIDEWALL	QUICK	CHROME PLATED	PER NFPA	VIKING, RELIABLE, TYCO, VICTAULIC	NOTES 2, 3, 7, & 8
						FIRE P	ROTECTION MATERIAL LIS	
					G NAME		DESCRIPTION	MANUFACTURER AND MODEL
					DUCTILE IR EPDM COA CAST OR D MOUNTED LUGGED OI FEATURES CK-1 SWING CHE BODY, STA BRASS SEA FOR HORIZ FLANGED T ABOVE.	ON BODY WITH PF TED DUCTILE IRON UCTILE IRON HAN NTEGRAL MONITO R WAFER VALVES LISTED ABOVE. ECK VALVE, 300 PS NLESS STEEL HIN IT RING, ACCESS ( ONTAL OR VERTIO	VE, NORMALLY OPEN, 175 PSI WWP, GROOVED TYPE ROTECTIVE COATING, ELECTROLESS NICKEL OR N DISC, STAINLESS STEEL STEM AND SCREWS, DWHEEL, EPDM SEAT, INDICATOR FLAG, FACTORY OR SWITCHES, UL/FM. ARE ACCEPTABLE PROVIDED THEY HAVE THE SI WWP, GROOVED/FLANGED TYPE, DUCTILE IRON GE ASSOCIATED WITH RUBBER FACED CLAPPER, COVER, 1/2" OR 3/4" TAPPED BOSSES, VALVE LISTED CAL INSTALLATION, UL/FM. BLE PROVIDED VALVE HAS THE FEATURES LISTED	SERIES 705, TYCO BFV-300, KENNEDY G300, GLOBE GLR300G, REL-BFG-300 VIKING G-1, TYCO CV-1F
					SINGLE PO FROM 0-90	LE DOUBLE THRO	450 PSI, FLOW SENSITIVITY OF 4-10 GPM, TWO W SWITCHES, PNEUMATIC RETARD ADJUSTABLE UTOMATIC RESET, NEMA 4 INDOOR/OUTDOOR FM.	POTTER VSR, SYSTEM SENSOR WFD
					GLASS, BAI FURNISHEE OF A TYPE	L VALVE PLATE IN WITH TEST ORIF	IDICATING OFF-TEST-DRAIN POSITIONS, ICE GIVING FLOW EQUIVALENT TO ONE SPRINKLER LLEST ORIFICE INSTALLED ON THE SYSTEM,	AGF M1011A, RELIABLE MODEL TD, VICTUALIC TESTMASTER, GLOBE UTD W/ MODEL ARV PRV



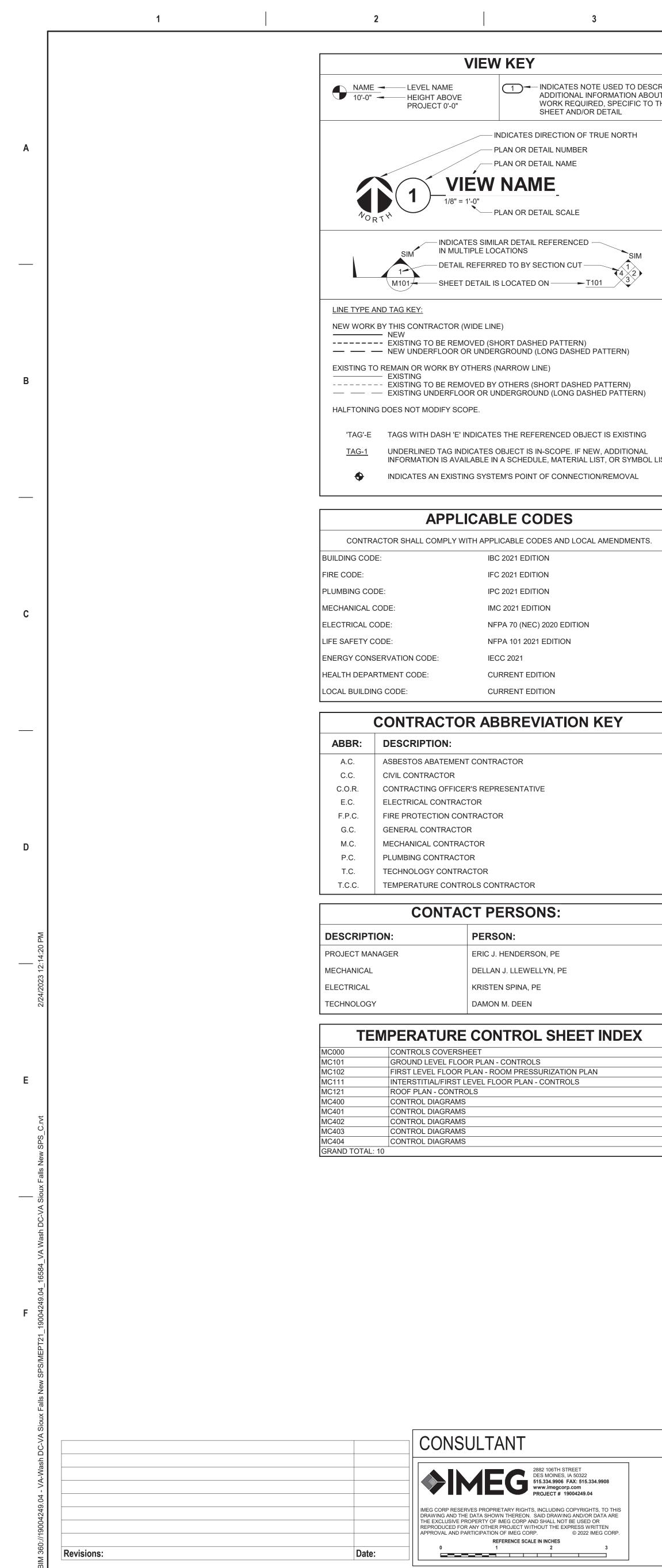


### **SPRINKLER PIPE HANGER DETAIL** NO SCALE

1. THIS DETAIL APPLIES TO SPRINKLER PIPES ABOVE CEILING THAT SUPPLY PENDENT SPRINKLERS BELOW CEILINGS WHERE THE WATER PRESSURE EXCEEDS 100 PSIG (STATIC OR RESIDUAL). 2. ALSO APPLIES TO ARMOVER WHERE CUMULATIVE HORIZONTAL LENGTH IS GREATER THAN 12". 3. CLEVIS HANGERS AND ADJUSTABLE SWIVEL RING HANGERS WITH SURGE SUPPRESSOR OR RESTRAINING CLIP ARE ALSO ACCEPTABLE, SEE NFPA 13.

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ement	Approved:					Location Sioux Falls, SD.	
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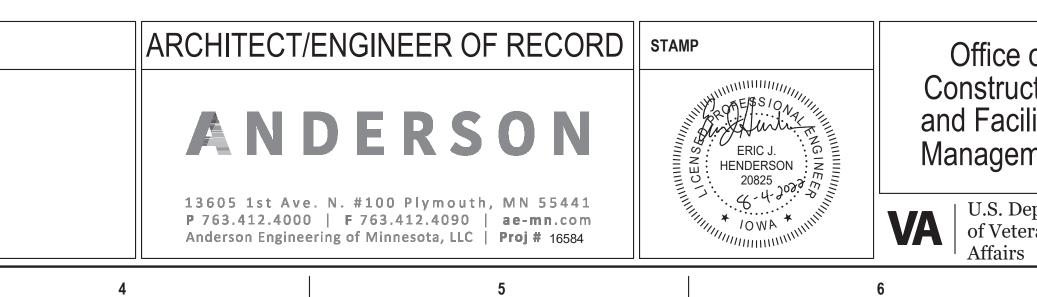
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	CONTROL SYMBOL LIST		CONTROL SYM	BOL LIS I
	NOT ALL SYMBOLS MAY APPLY.		NOT ALL SYM	IBOLS MAY APPLY
SYMBOL:	DESCRIPTION:	SYMBOL:	DESCRIPTION:	
CA——	COMPRESSED AIR		ANALOG INPUT	
-CW——	COLD WATER - POTABLE		ANALOG INPUT	
-CWR	CHILLED WATER RETURN			
WS—	CHILLED WATER SUPPLY		ANALOG OUTPUT	
-DI	DEIONIZED WATER			U V ⊕
GWR—	GLYCOL WATER RETURN		FLOW METER	
GWS——	GLYCOL WATER SUPPLY			н
°C—	HIGH PRESSURE CONDENSATE		FLOW SWITCH	н
vs——				
NR—	HEATING WATER RETURN			
HWS-	HEATING WATER SUPPLY	FS	AIR FLOW SWITCH	
-HW	HOT WATER - POTABLE			
	HOT WATER CIRCULATING - POTABLE			
C140—	HOT WATER CIRC POTABLE NUMBER INDICATES TEMP	FM FM		
	LOW PRESSURE CONDENSATE		DUCT FLOW METER	
	LOW PRESSURE STEAM			
	NON-POTABLE COLD WATER			
IHW——	NON-POTABLE HOT WATER			
PC	OXYGEN PUMPED CONDENSATE			
xo	REVERSE OSMOSIS WATER		HUMIDIFIER	
cw	SOFT COLD WATER			
/	SERVICE WATER - POTABLE	K		Ø
	CONTROL VALVE (THREE-WAY)	DSD		S
			DUCT SMOKE DETECTOR	ACT
	CONTROL VALVE (TWO-WAY) SOLENOID VALVE			
_				DS
-	CHECK VALVE			DP
	THERMOSTAT			CS
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE		HEATING/ COOLING COIL	VS
	TEMPERATURE SENSOR (DUCT MOUNTED)			
				• \ -
—	TEMPERATURE SENSOR WITH WELL			●┤ ┝●
	THERMOMETER WITH WELL (DIAL TYPE)			$\not \times \not \times \not \times$
			AIR BLENDER	* * * *
	THERMOMETER WITH WELL (FILLED TYPE)			
ן ן	AVERAGING TEMPERATURE			
1	SENSOR			
)			FAN	
1				
	LOW LIMIT TEMPERATURE SWITCH		MOTOR	
لخ				
		R	CONTACTOR	
			PUMP	
ן ן			r Uivir	
┦│	PROBE TEMPERATURE SENSOR			
┙┍╴│			RATURE CONTR	
1P	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)			
<b>₽</b>	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)	ABBR:	DESCRIPTION:	
<b></b>	DIFFERENTIAL PRESSURE SENSOR	EA	EXHAUST/RELIEF AIR	
2	PRESSURE SENSOR (DUCT MOUNTED)	МА	MIXED AIR	
		MV	MIXING VALVE	
		N.C.	NORMALLY CLOSED	
SP	STATIC SWITCH	NIC	NOT IN CONTRACT	
		N.O.	NORMALLY OPEN	
		OA	OUTSIDE AIR	
		TYP	TYPICAL	
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**RETURN AIR** 

SUPPLY AIR

UNLESS OTHERWISE NOTED

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(CONT.)	MECHANIC	AL GENERAL NOTES	S:	TEMPERATURE CON
		ICAL SHEETS AND TRADES, INCLUDING NTILATION, PIPING AND TEMPERATURE		<ol> <li>REFER TO EQUIPMENT SCHEDULES TO C APPLY TO WHICH ITEMS OF EQUIPMENT.</li> </ol>
DIGITAL INPUT	DIAGRAMMATIC AND MAY NOT ALW DRAWINGS SHOW THE GENERAL A AND MAY NOT INCLUDE ALL OFFSE	OF EQUIPMENT, DUCTWORK, PIPING, E VAYS REFLECT EXACT INSTALLATION CO RRANGEMENT OF DUCTWORK, PIPING, ETS AND FITTINGS REQUIRED FOR COM IALL BE FOLLOWED AS CLOSELY AS AC	ONDITIONS. , EQUIPMENT, ETC., PLETE	<ol> <li>FOR TEMP SENSOR REQUIREMENTS FOR</li> <li>EACH D.I., D.O., A.I. AND A.O. POINT SHOW DISCRETE FROM ALL OTHER POINTS EXC</li> <li>ALL WIRING, CONTROL COMPONENTS, DI CONTROL DRAWINGS SHALL BE PROVIDE OTHERWISE.</li> <li>TEMPERATURE CONTROL CABLING, CON</li> </ol>
DIGITAL OUTPUT	2. DO NOT SCALE DRAWINGS. VERIF ARCHITECTURAL, STRUCTURAL, SI	Y ALL DIMENSIONS AND CLEARANCES F JBMITTALS, AND OTHER APPROPRIATE	DRAWINGS OR	SPECIFICATIONS FOR A COMPLETE LIST PROVIDED AS A CONVENIENCE. REFER DETAILED REQUIREMENTS.
HUMIDISTAT SENSOR	3. COORDINATE ALL WORK WITH ALL	DRAWINGS, INCLUDING THOSE OF OTH OTHER TRADES PRIOR TO INSTALLATIO RATION, MAINTENANCE, CODE COMPLI	ON TO PROVIDE	A. CABLE/WIRE JACKET COLOR: GRE B. CONDUIT BOX COLOR ABOVE FINIS
HUMIDISTAT / SENSOR	VERIFY NON-INTERFERENCE WITH VERIFICATION OF NECESSARY CLE	OTHER WORK. DO NOT FABRICATE PR ARANCES FOR ALL TRADES. BRING AN	IOR TO Y INTERFERENCES	CEILINGS: GREY C. CONDUIT BOX COLOR IN SPACES \ D. CABLE/WIRE INSTALLATION: IN CO
HUMIDITY SENSOR (DUCT MOUNTED)	4. REVIEW SPACE REQUIREMENTS OF REASONABLE ACCOMMODATIONS		ITED AND MAKE	<ol> <li>ALL ACTUATORS SHALL BE OF THE ELEC ACTUATOR IS SPECIFICALLY INDICATED ( PNEUMATIC.</li> <li>ALL MODULATING DAMPER AND VALVE A</li> </ol>
		INATE CONFLICTS OR THAT RESULT FR THE CONTRACTOR WITHOUT ADDITION	AL COST OR	SHALL HAVE THE VALVE POSITION DISPL DAMPER/VALVE COMMAND SIGNAL. DISP FEEDBACK DEVICE/CIRCUIT (OUTPUT SIG ACCEPTABLE)
FILTER	CHANGES REQUIRED FOR EQUIPM DESIGN.	ENT PROPOSED THAT DIFFERS FROM 1	THE BASIS OF	<ol> <li>MODULATING SIGNALS SHALL BE DISPLA CLOSED ARE NOT ACCEPTABLE).</li> <li>PRESSURE TRANSMITTERS WHOSE SIGN</li> </ol>
	MOUNTED DEVICES, OTHER THAN 8. EACH CONTRACTOR IS RESPONSIE	NICAL PLANS FOR EXACT LOCATIONS ( SPRINKLERS. BLE FOR DAMAGE CAUSED BY THEIR AC	OF ALL CEILING	<ol> <li>PRESSURE TRANSMITTERS WHOSE SIGN PRESSURE SHALL BE WIRED DIRECTLY T SPEED. SIGNAL SHALL BE COMPLETELY I</li> <li>PRESSURE TRANSMITTERS WHOSE SIGN PRESSURE OF ANY PUMPED WATER SYS</li> </ol>
TERMINAL AIR BOX		HE CONTRACTOR WHOSE WORK CAUS MATCH ORIGINAL CONSTRUCTION, FIRE		AND THE LIKE) SHALL BE WIRED DIRECTL SPEED. SIGNAL SHALL BE COMPLETELY I
TERMINAL AIR BOX W/ REHEAT	PANEL TYPE AND COLOR WITH ARC PANELS PRIOR TO BIDDING.	TWORK ACCESSORIES, DAMPERS, ETC. CHITECT. NOTIFY THE GC OF THE REQU	. COORDINATE JIRED ACCESS	<ol> <li>ALL CONTROL COMPONENTS SUCH AS R SHALL BE MOUNTED IN STEEL ENCLOSU SPECIFICATION 23 09 00.</li> <li>EACH CONTROL PANEL SHALL HAVE A LA OPERATION AND CONTROL DIAGRAM INC</li> </ol>
	AND DUCTS PENETRATE. PENETRA	F PENETRATIONS AIRTIGHT WHERE CO ATIONS THROUGH EXTERIOR WALLS AN OOFING MATERIALS RECOMMENDED B	ID ROOF SHALL BE	OPERATION OF EQUIPMENT ASSOCIATED FOR ADDITIONAL REQUIREMENTS.
OCCUPANCY SENSOR SENSOR	FOR OUTDOOR USE. 11. CAULK ALL PIPE AND DUCT PENETI	RATIONS OF FULL HEIGHT NON-FIRE RA	ATED WALL,	12. TCC SHALL WIRE THE CONTROL SIGNAL CONTROL PANEL TO CONTROL THE OPE WITH SEQUENCE OF OPERATION. TCC SI
ACTUATOR		SEMBLIES. THIS IS ESSENTIAL TO PREVI TO ANOTHER AND TO PROVIDE THE DE		TRANSFORMERS, FUSING AND ALL OTHE COMPLETE INSTALLATION.
	OPENINGS WITH THE TOP EDGE RA	OWN TO PENETRATE FLOORS, PROVID AISED ABOVE FLOOR SURFACE IN ACCO SLEEVE PERIMETER TO BE WATERTIGH	ORDANCE WITH ALL	13. TCC SHALL EXTEND CONTROL SIGNAL FF AIR HANDLING UNIT. REFER TO ELECTRIC EXTEND AND TERMINATE WIRING AS REC
DIFFERENTIAL PRESSURE SWITCH	13. EQUIPMENT SIZES AND SERVICE C	LEARANCE REQUIREMENTS VARY AMO ROVED SHOP DRAWINGS FOR EQUIPME	NG DIFFERENT	14. TCC SHALL PROVIDE POWER SUPPLIES F INCLUDE, BUT NOT LIMITED TO, APPLICA
CURRENT SWITCH	REQUIRED SERVICE CLEARANCES. PIPING, DUCTWORK, ETC. 14. DO NOT BLOCK TUBE PULL OR EQU	. COORDINATE WITH LAYOUT OF EQUIP	MENT PADS,	ACTUATORS, BUILDING PRESSURE SENS DEVICES. REFER TO CONTROLS SPECIF REFER TO [TEMPERATURE CONTROL] [HI
NORMALL CLOSED CONTACT	15. MAINTAIN A MINIMUM WORKING CL EQUIPMENT REQUIRING MAINTENA	EARANCE OF 3'-6" IN FRONT OF ALL ELI NCE, INSPECTION, AND TESTING INCLU	JDING BUT NOT	LOCATIONS. PROVIDE LOW VOLTAGE WI CONTROLLERS, MONITORS, COMPONEN
NORMALLY OPEN CONTACT	TRANSFORMERS, EQUIPMENT DISC	I PANELS, SWITCHBOARDS, MOTOR CO CONNECTS AND STARTERS. RICAL EQUIPMENT SPACE DEFINED BY T		ADDITIONAL POWER SUPPLIES NOT SHO OPERATIONAL SYSTEM SHALL BE PROVII CONTRACTOR. THE TEMPERATURE CON
OPPOSED BLADE DAMPER PARALLEL BLADE DAMPER	OF ELECTRICAL EQUIPMENT MEAS EQUIPMENT OR THE STRUCTURAL	URED FROM THE FLOOR TO A HEIGHT ( CEILING, WHICHEVER IS LOWER. SYST	6'-0" ABOVE THE FEMS FOREIGN TO	PROVISIONS WITHIN THEIR BID FOR THE POWER TO THE ADDITIONAL POWER SUF ADDITIONAL POWER SUPPLY CABINET W
	THE ELECTRICAL DISTRIBUTION SY ELECTRICAL SPACE INCLUDING; DU 17. PROVIDE CONCRETE EQUIPMENT			15. TCC SHALL PROVIDE POWER SUPPLIES F INCLUDE, BUT NOT LIMITED TO, APPLICA
	EXTEND MINIMUM 6" BEYOND ALL S 18. DO NOT SUPPORT EQUIPMENT, PIF NON-STRUCTURAL BUILDING ELEM		CKING OR OTHER RETE SHALL BE	ACTUATORS, BUILDING PRESSURE SENS DEVICES. REFER TO [TEMPERATURE CO SUPPLY LOCATIONS. ADDITIONAL CIRCU AND OPERATIONAL SYSTEM SHALL BE PI
	MECHANICAL	RENOVATION NOT	ES:	CONTRACTOR. THE TEMPERATURE CON PROVISIONS WITHIN THEIR BID FOR THE POWER TO THE ADDITIONAL POWER SUF
	THESE NOTES APPLY TO ALL MECHANI	ICAL SHEETS AND TRADES, INCLUDING NTILATION, PIPING AND TEMPERATURE		ADDITIONAL POWER SUPPLY CABINET W 16. ELEMENT LENGTHS FOR BOTH MIXED AIR SHALL BE MINIMUM 1 LINEAR FOOT PERS
	1. EXISTING CONDITIONS ARE SHOWN		FROM FIELD	MULTIPLE SENSORS AND SWITCHES AS I LENGTHS. LOCATE RESET SWITCHES MA
	REPORT ANY CONFLICTS BEFORE 2. NOT ALL EXISTING DUCTWORK ANI	PROCEEDING. D PIPING IS SHOWN. VERIFY EXISTING (	CONDITIONS	ROOF, PLATFORM OR FLOOR) SO THE RE FOR A LADDER. 17. TO PREVENT GENERATOR OVERLOADING
	<ol> <li>FIELD VERIFY THE AVAILABLE CLEA FABRICATION. RISES AND DROPS M CONDITIONS.</li> </ol>	MAY BE NECESSARY BECAUSE OF EXIS	BEFORE TING FIELD	FOR ALL MECHANICAL EQUIPMENT THAT LIMITED TO, AIR HANDLERS, PUMPS, EXH SHALL START 2 MINUTES (ADJ.) FROM TH TRANSFER SWITCH CHANGED TO EMERG
	REQUIRED TO BE REMOVED OR RE 5. THE GENERAL CONTRACTOR IS RE	TRACTOR PRIOR TO BIDDING IF OTHER ELOCATED TO ALLOW ACCESS TO THEI SPONSIBLE FOR CUTTING, REMOVAL A	UTILITIES ARE R AREA OF WORK. ND PATCHING OF	BEING ENERGIZED WITHIN A 20 MINUTE ( EQUIPMENT STAGING WITH OWNER'S RE 18. CONTROL DIAGRAMS ARE SCHEMATIC IN CONTROL DEVICES AND COMPONENTS.
REVIATION KEY	<ul> <li>CONTRACTORS SHALL NOTIFY THE</li> <li>6. THE GENERAL CONTRACTOR IS RE</li> <li>CEILINGS, CEILING TILES, AND CEIL</li> </ul>	DCIATED WITH WORK BY ALL CONTRAC E GC OF AFFECTED AREAS PRIOR TO BI ESPONSIBLE FOR REMOVAL AND REPLA ING GRIDS ASSOCIATED WITH AREAS ( ERAL CONTRACTOR OF AFFECTED ARE)	IDDING. ACEMENT OF OF WORK BY ALL	DETAILS FOR ADDITIONAL CONTROL DEV SHOWN ON THESE CONTROL DRAWINGS 19. TCC SHALL PROVIDE ALL CONTROL COM EQUIPMENT TO BE CONTROLLED AS DES
	BIDDING. 7. WHERE EXISTING MECHANICAL SY NEW EQUIPMENT, PIPING, OR DUC EITHER ARRANGE NEW EQUIPMEN	STEMS ARE LOCATED IN AREAS THAT C TWORK TO BE INSTALLED, EACH CONTI T, PIPING, OR DUCTWORK IN SUCH A F/	CONFLICT WITH RACTOR SHALL ASHION THAT IT	REGARDLESS OF WHETHER ALL CONTRO ASSOCIATED CONTROL DIAGRAM. 20. COORDINATE DDC CONTROL PANEL EME ELECTRICAL CONTRACTOR. ALL CONTRO
	8. PROVIDE TEMPORARY CONNECTION CONSTRUCTION. MAINTAIN ACCES	NG SYSTEMS, OR REWORK EXISTING MI ATION OF NEW EQUIPMENT, PIPING, OR DNS TO MAINTAIN EXISTING SYSTEMS IN S TO EXISTING MECHANICAL INSTALLAT	R DUCTWORK. N SERVICE DURING	REQUIRING EMERGENCY POWER SHALL SYSTEM.
	REMAIN ACTIVE. 9. OBTAIN PERMISSION FROM OWNEF REASON. MAINTAIN SERVICE TO AL SYSTEMS ARE INSTALLED.	R BEFORE SHUTTING DOWN ANY SYSTE LL COMPONENTS THAT ARE TO REMAIN		
	10. MAINTAIN EXISTING SYSTEM IN SEF	RVICE UNTIL NEW SYSTEM IS COMPLET YSTEM ONLY TO MAKE SWITCHOVERS A		

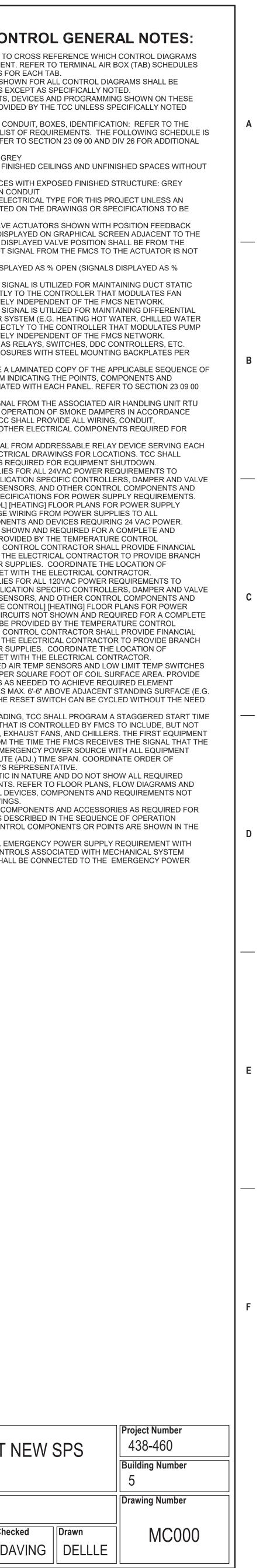
CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY

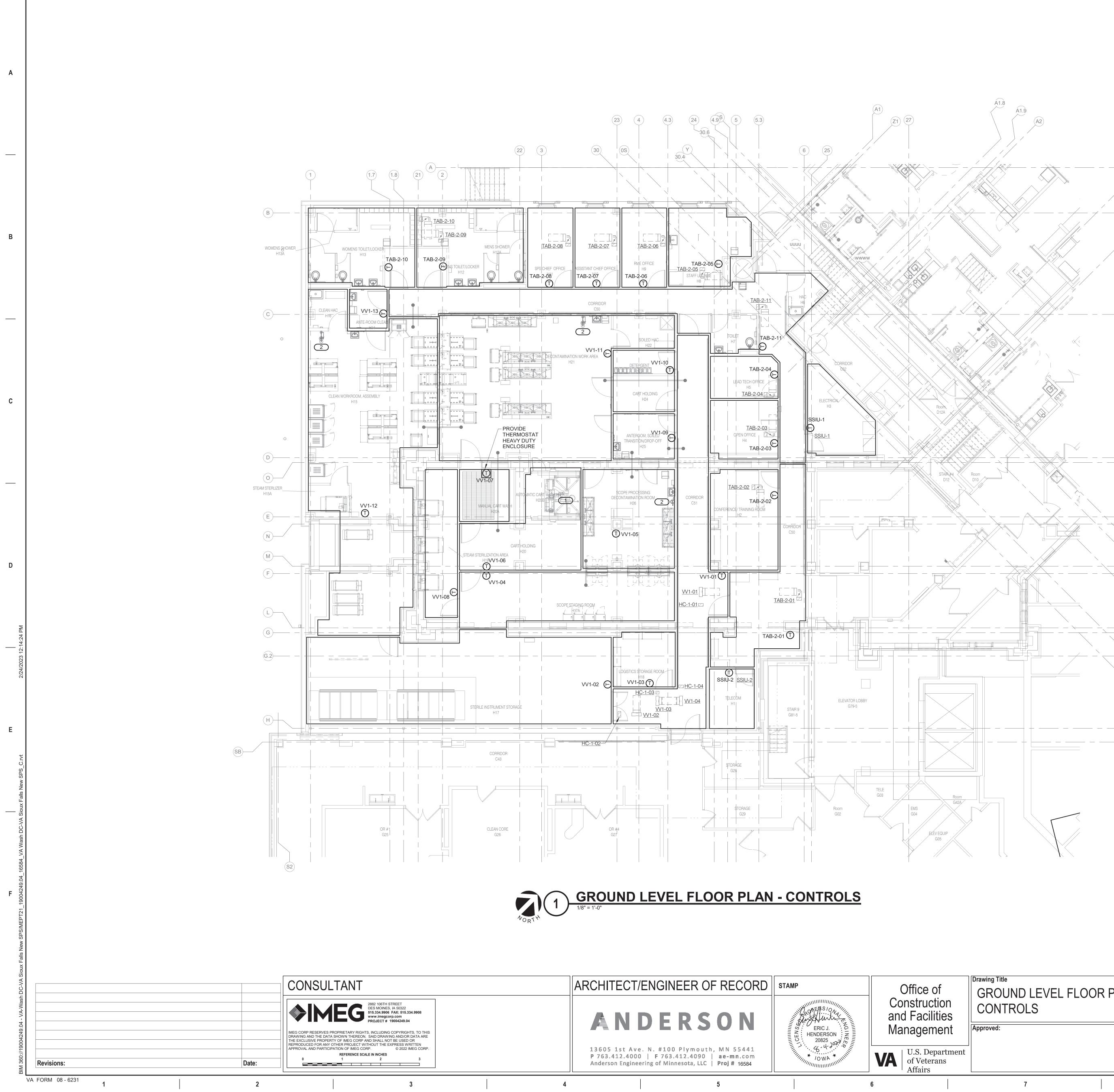
DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

THAT HAS BEEN REMOVED.

11. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT

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nent epartment rans	Approved:	FULLY SPRINKLERED	Location Sioux Falls, S Issue Date 08/04/22	D. Checke
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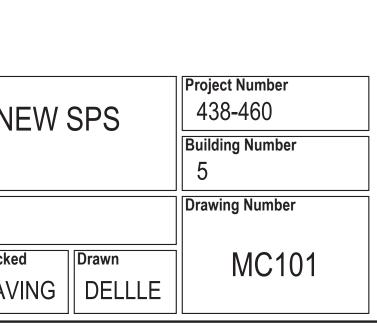
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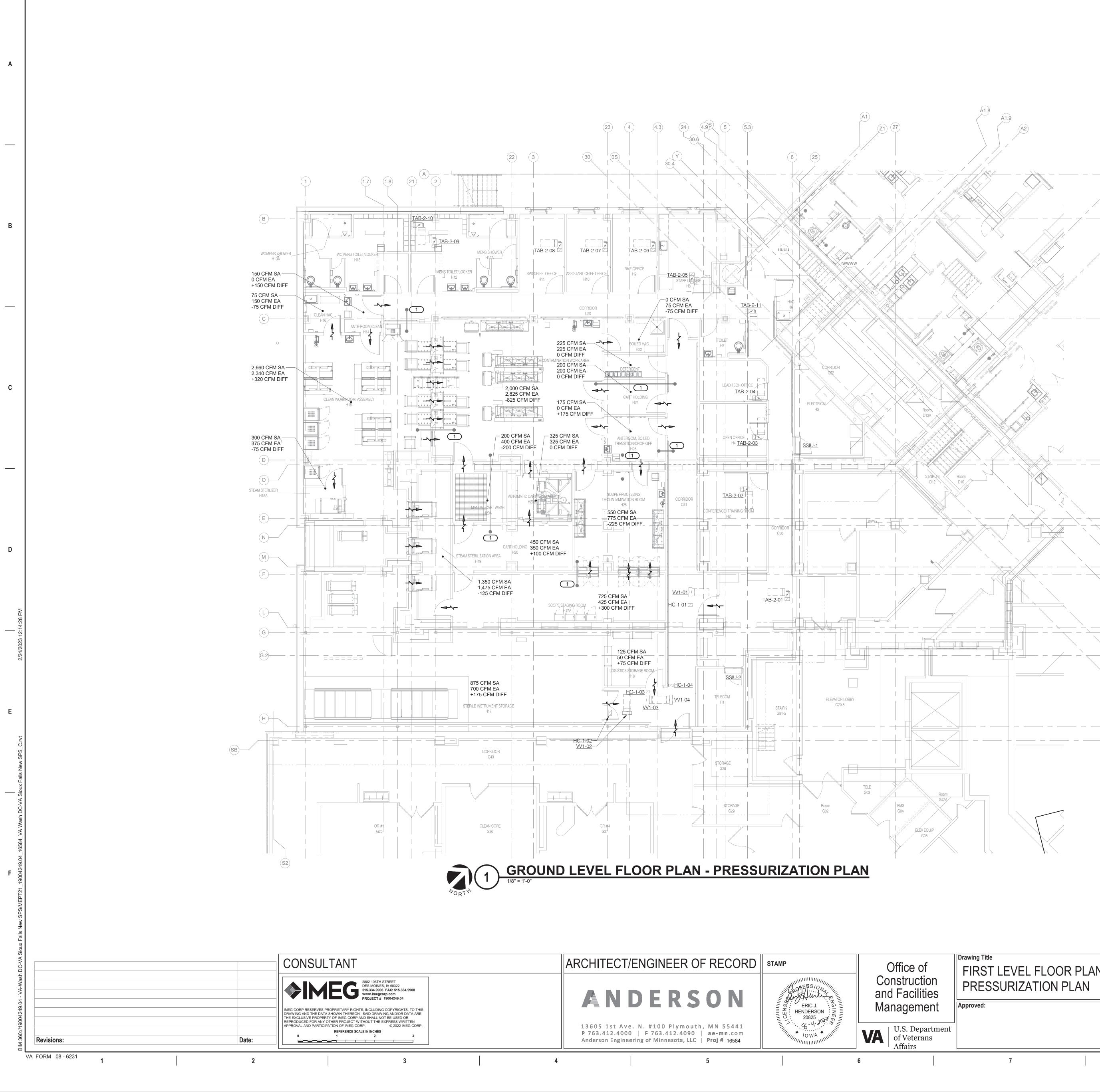
GENERAL MECHANICAL NOTES: . REFERENCE MC000 – MECHANICAL CONTROLS COVERSHEET FOR CONTROLS SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION. **REFERENCE MV600 FOR VENTILATION** EQUIPMENT SCHEDULES. REFERENCE MP600 FOR PIPING EQUIPMENT SCHEDULES. REFERENCE 7/MC400 FOR VARIABLE FREQUENCY DRIVE CONTROL DIAGRAM.
 REFERENCE 5/MC403 FOR TAB NIGHT SETBACK CONTROL SEQUENCE. REFERENCE 6/MC403 FOR TERMINAL AIR BOX REPORT GENERATION SEQUENCE. KEYNOTES: # REFERENCE 1/MC403 FOR CART WASHER FAN CONTROL DIAGRAM. REFERENCE 12/MC403 FOR EMERGENCY

SHOWER/EYEWASH MONITORING CONTROL

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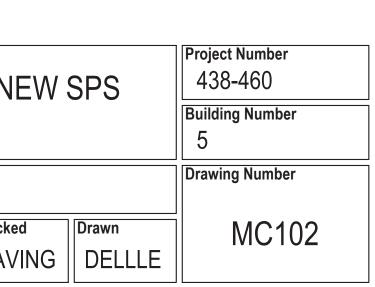
GENERAL MECHANICAL NOTES: . REFERENCE MC000 – MECHANICAL CONTROLS COVERSHEET FOR CONTROLS SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION. **REFERENCE MV600 FOR VENTILATION** EQUIPMENT SCHEDULES. REFERENCE MP600 FOR PIPING EQUIPMENT SCHEDULES. REFERENCE 7/MC400 FOR VARIABLE FREQUENCY DRIVE CONTROL DIAGRAM.
 REFERENCE 5/MC403 FOR TAB NIGHT SETBACK CONTROL SEQUENCE. REFERENCE 6/MC403 FOR TERMINAL AIR BOX REPORT GENERATION SEQUENCE. KEYNOTES: # I. PROVIDE DIFFERENTIAL PRESSURE SENSORS AT LOCATIONS INDICATED ON DRAWINGS. DIFFERENTIAL PRESSURE SENSORS ARE INTENDED FOR MONITORING USE ONLY, THEY SHOULD NOT BE USED TO CONTROL

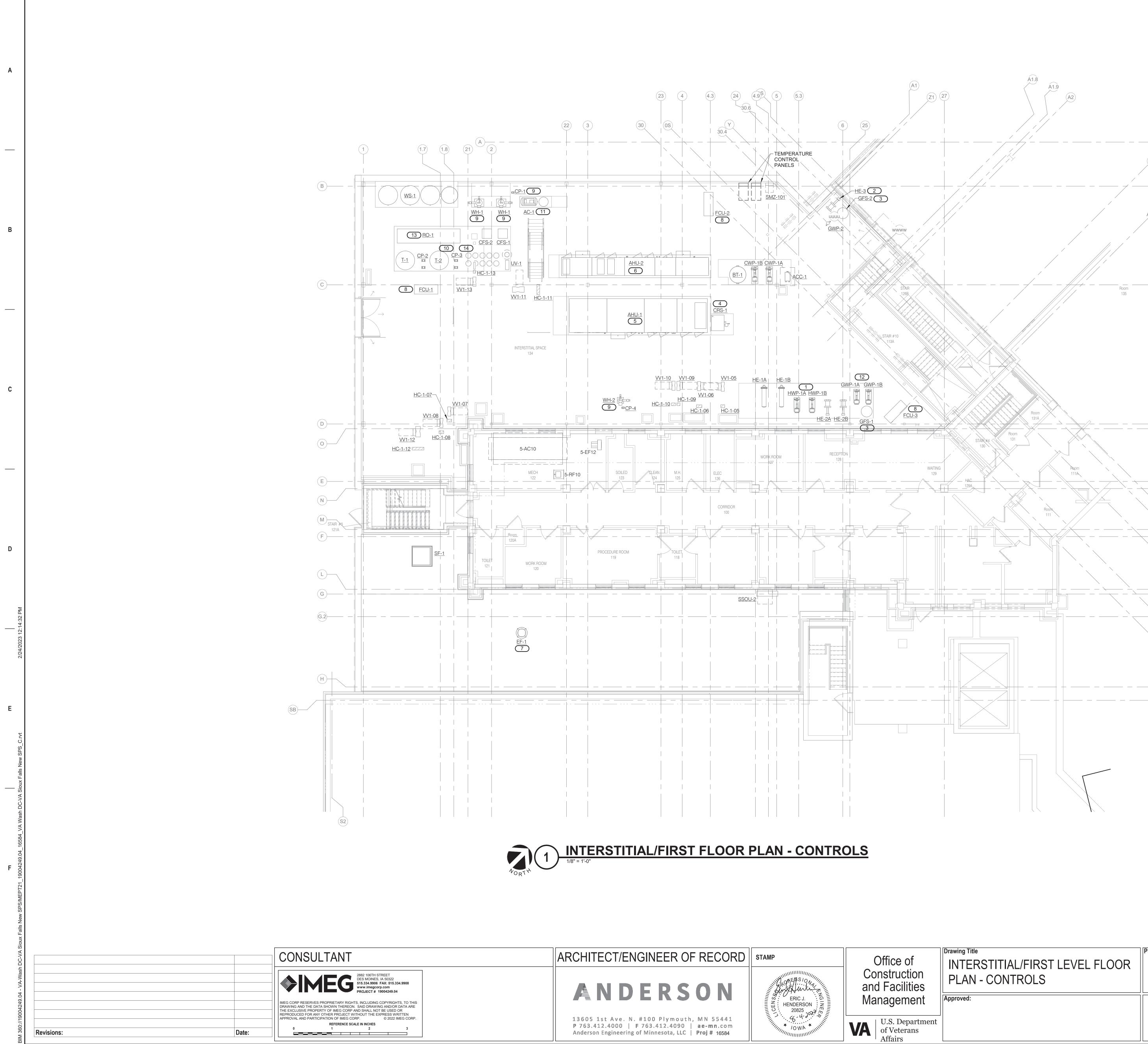
EQUIPMENT. A TYPICAL RANGE OF +/- 0.5" W.C.

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OR SIMILAR, SHOULD BE PROVIDED.

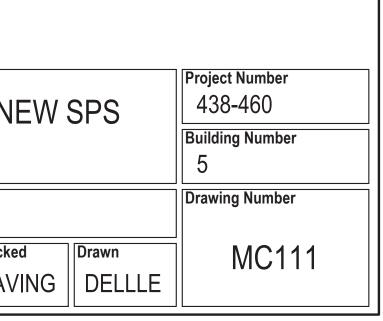


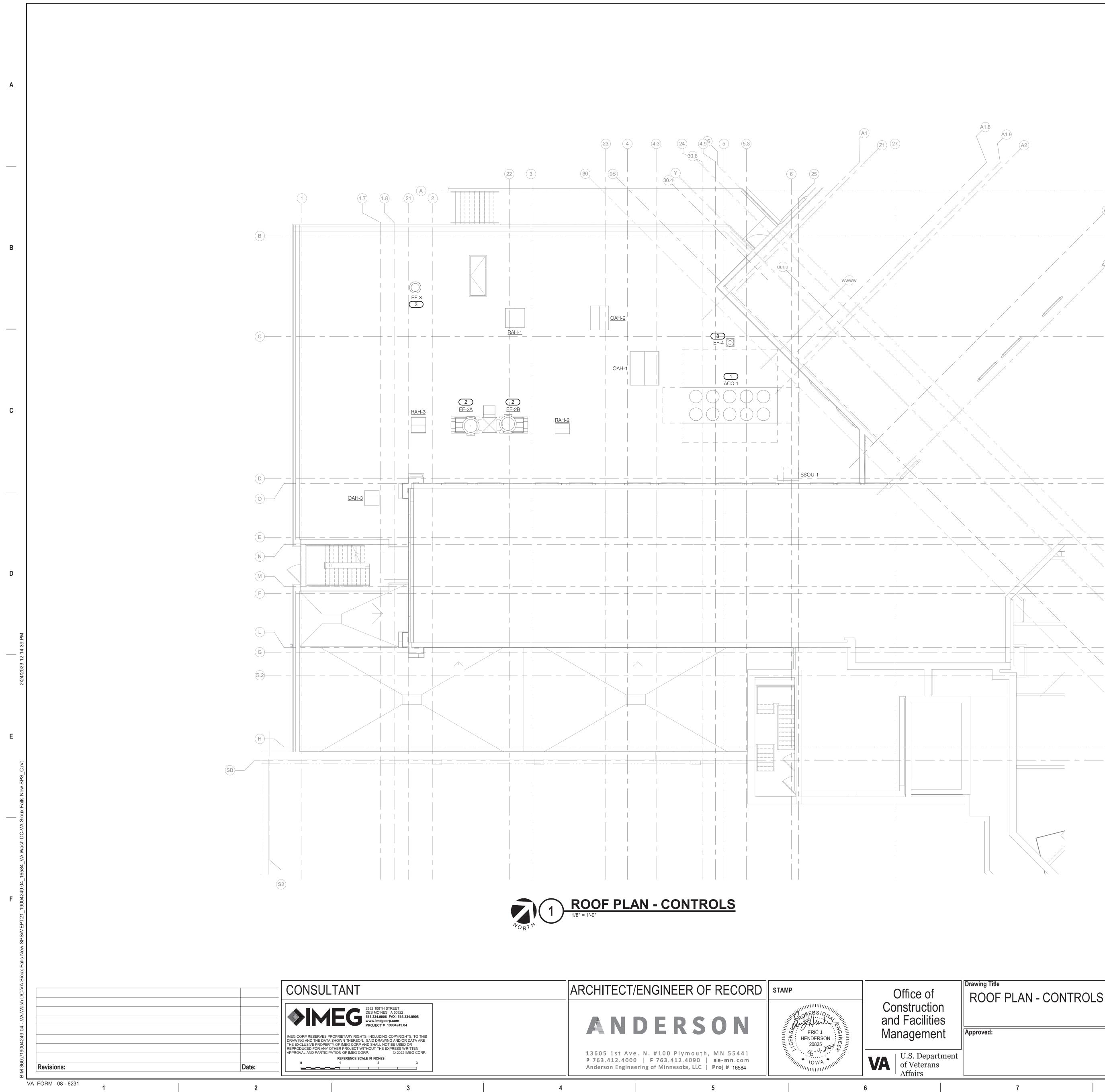


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REPORT GENERATION SEQUENCE.
YNOTES: (#)
REFERENCE 2/MC400 FOR HEATING WATER CONTROL DIAGRAM. REFERENCE 4/MC400 FOR SNOW MELT SYSTEM CONTROL DIAGRAM. REFERENCE 5/MC400 FOR GLYCOL FEED STATION CONTROL DIAGRAM. REFERENCE 6/MC400 FOR CONDENSATE RETURN PUMP MONITORING CONTROL DIAGRAM. REFERENCE 1/MC401 FOR AHU-1 AIR HANDLING UNIT CONTROL DIAGRAM. REFERENCE 1/MC401 FOR AHU-2 AIR HANDLING UNIT CONTROL DIAGRAM. REFERENCE 1/MC403 FOR EXHAUST FAN AHU INTERLOCK CONTROL DIAGRAM. REFERENCE 8/MC403 FOR EXHAUST FAN AHU INTERLOCK CONTROL DIAGRAM. REFERENCE 9/MC403 FOR DOMESTIC HOT WATER CONTROL DIAGRAM. REFERENCE 10/MC403 FOR WATER TREATMENT METERING CONTROL DIAGRAM. REFERENCE 11/MC403 FOR AIR COMPRESSOR CONTROL DIAGRAM. REFERENCE 11/MC403 FOR AIR COMPRESSOR CONTROL DIAGRAM. REFERENCE 1/MC404 FOR GLYCOL PREHEAT LOOP CONTROL DIAGRAM. REFERENCE 1/MC404 FOR REVERSE OSMOSIS SYSTEM CONTROL DIAGRAM. REFERENCE 1/MC404 FOR REVERSE OSMOSIS SYSTEM CONTROL DIAGRAM.
SYSTEM CONTROL DIAGRAM.





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GENERAL MECHANICAL NOTES: . REFERENCE MC000 – MECHANICAL CONTROLS COVERSHEET FOR CONTROLS SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES. COORDINATE AND CONFIRM ALL ARCHITECTURALLY EXPOSED DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN OR INSTALLATION. REFERENCE MV600 FOR VENTILATION EQUIPMENT SCHEDULES. . REFERENCE MP600 FOR PIPING EQUIPMENT SCHEDULES. SCHEDULES.
 REFERENCE 6/MC400 FOR VARIABLE FREQUENCY DRIVE CONTROL DIAGRAM.
 REFERENCE 5/MC403 FOR TAB NIGHT SETBACK CONTROL SEQUENCE. REFERENCE 6/MC403 FOR TERMINAL AIR BOX REPORT GENERATION SEQUENCE. KEYNOTES: # REFERENCE 1/MC400 FOR AIR COOLED CHILLER CONTROL DIAGRAM.
 REFERENCE 2/MC403 FOR EXHAUST FAN AHU INTERLOCK CONTROL DIAGRAM. . REFERENCE 3/MC403 FOR CONTINUOUS EXHAUST FAN OPERATION CONTROL

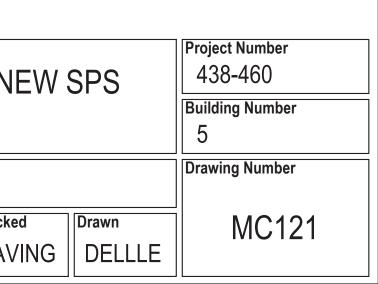
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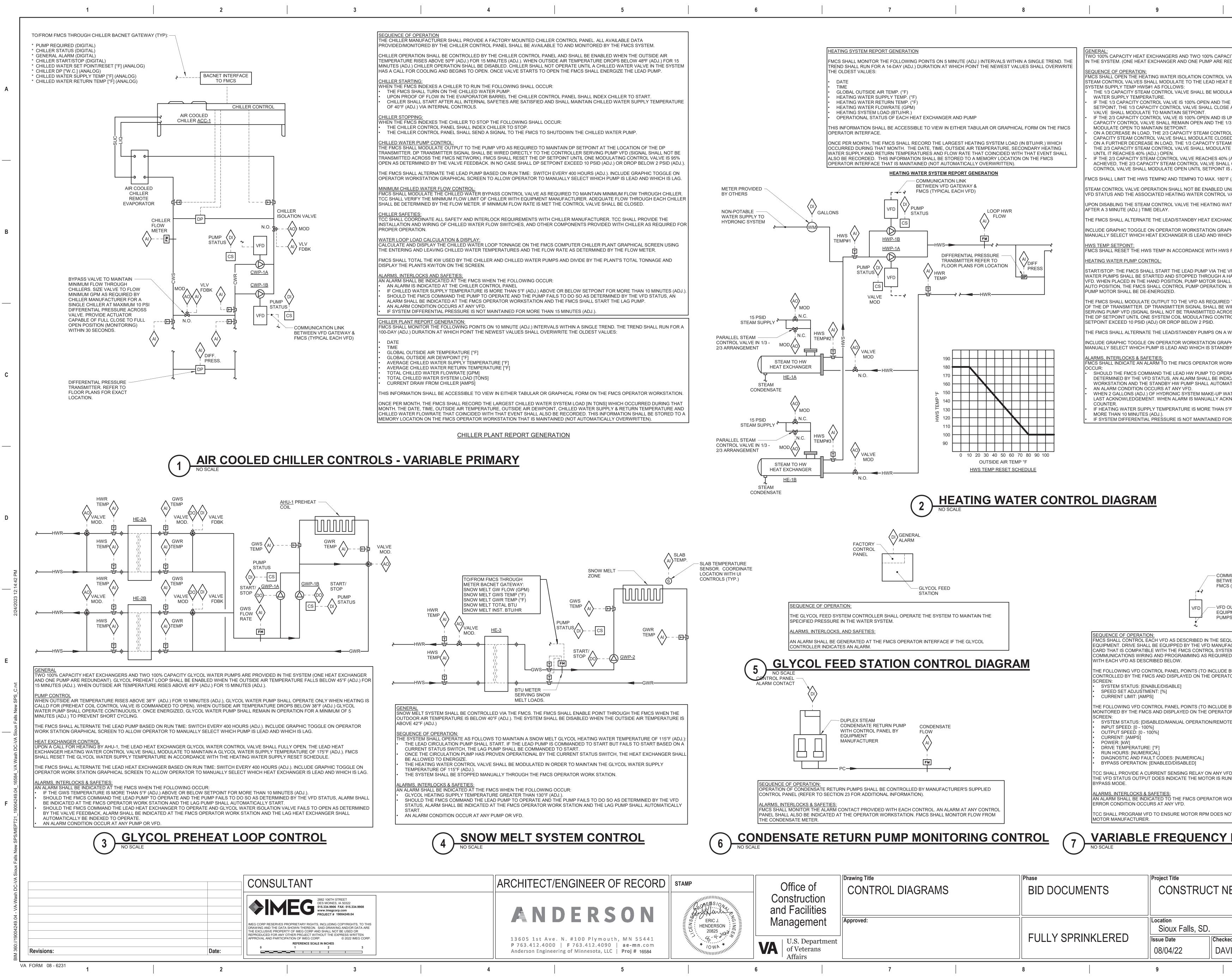
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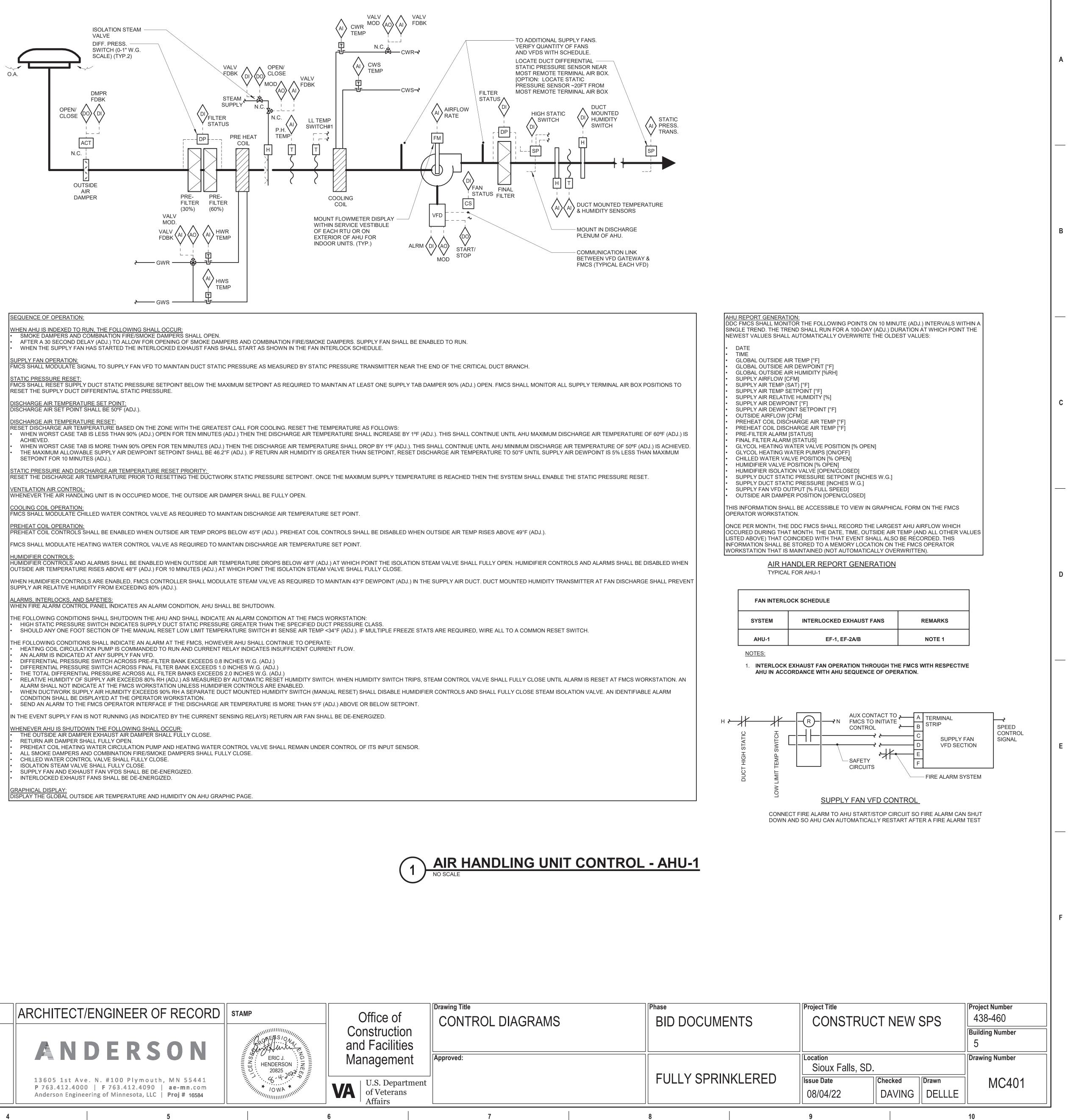
CITY HEATING WATER PUMPS ARE PROVIDED EDUNDANT).					
ALVE TO ASSOCIATED HEAT EXCHANGER. THE EXCHANGER AS REQUIRED TO MAINTAIN LATED IN ORDER TO MAINTAIN THE HEATING E HEAT EXCHANGER IS UNABLE TO MAINTAIN E AND THE 2/3 CAPACITY STEAM CONTROL UNABLE TO MAINTAIN SETPOINT, THE 2/3 /3 CAPACITY CONTROL VALVE SHALL ALSO OL VALVE SHALL REMAIN OPEN AND THE 1/3 ED UNTIL SETPOINT IS ACHIEVED. M CONTROL VALVE SHALL REMAIN SHUT AND					
M CONTROL VALVE SHALL REMAIN SHUT AND TE CLOSED UNTIL SETPOINT IS ACHIEVED OR (ADJ.) OPEN AND SETPOINT IS STILL NOT L CLOSE AND THE 1/3 CAPACITY STEAM S ACHIEVED.					
F (ADJ.). INLESS ONE PUMP IS RUNNING AS PROVEN BY VALVE IS OPEN. ATER CONTROL VALVE SHALL BE CLOSED					
NGERS ON A WEEKLY BASIS. PHICAL SCREEN TO ALLOW OPERATOR TO CH IS STANDBY.	E				
S RESET SCHEDULE.					
VFD AND SHALL RUN CONTINUOUSLY. HEATING HAND-OFF-AUTO SWITCH ON THE FACE OF THE LL RUN CONTINUOUSLY. WHEN PLACED IN THE . WHEN PLACED IN THE OFF POSITION, THE					
D TO MAINTAIN DP SETPOINT AT THE LOCATION WIRED DIRECTLY TO THE CONTROLLER OSS THE FMCS NETWORK.) FMCS SHALL RESET ROL VALVE IS 95% OPEN. IN NO CASE SHALL DP					
WEEKLY BASIS. PHICAL SCREEN TO ALLOW OPERATOR TO BY.					
RKSTATION IN THE EVENT THE FOLLOWING RATE AND THE PUMP FAILS TO DO SO AS ICATED AT THE FMCS OPERATOR ATICALLY START. ATER FLOWS THROUGH METER AFTER THE KNOWLEDGED, THE FMCS SHALL RE-ZERO THE	(				
5°F (ADJ.) ABOVE OR BELOW SETPOINT FOR OR MORE THAN 15 MINUTES (ADJ.).					
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OUTPUT TO DRIVEN IPMENT SUCH AS PS, FANS, ETC.					
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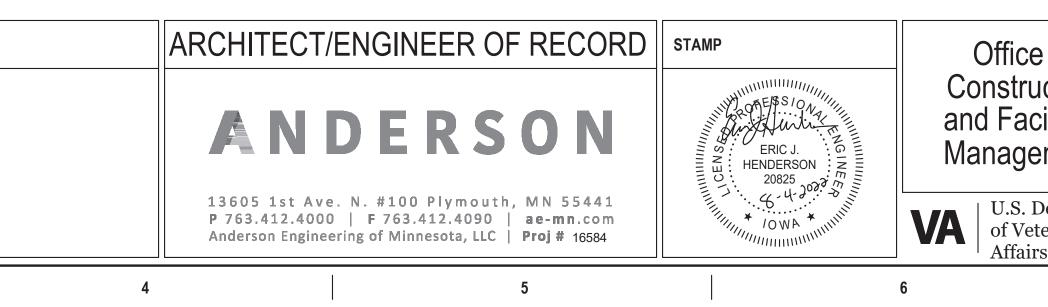
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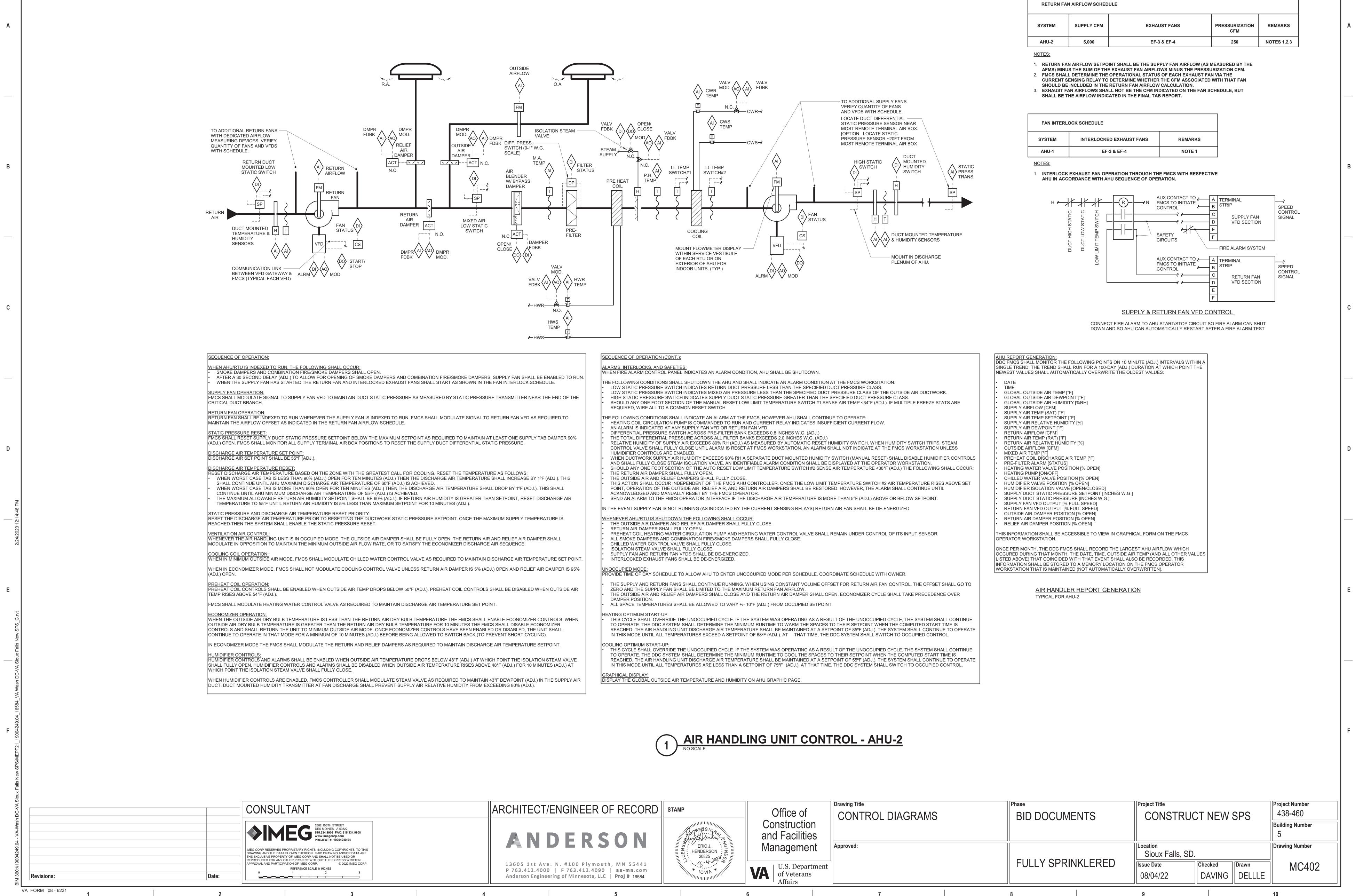




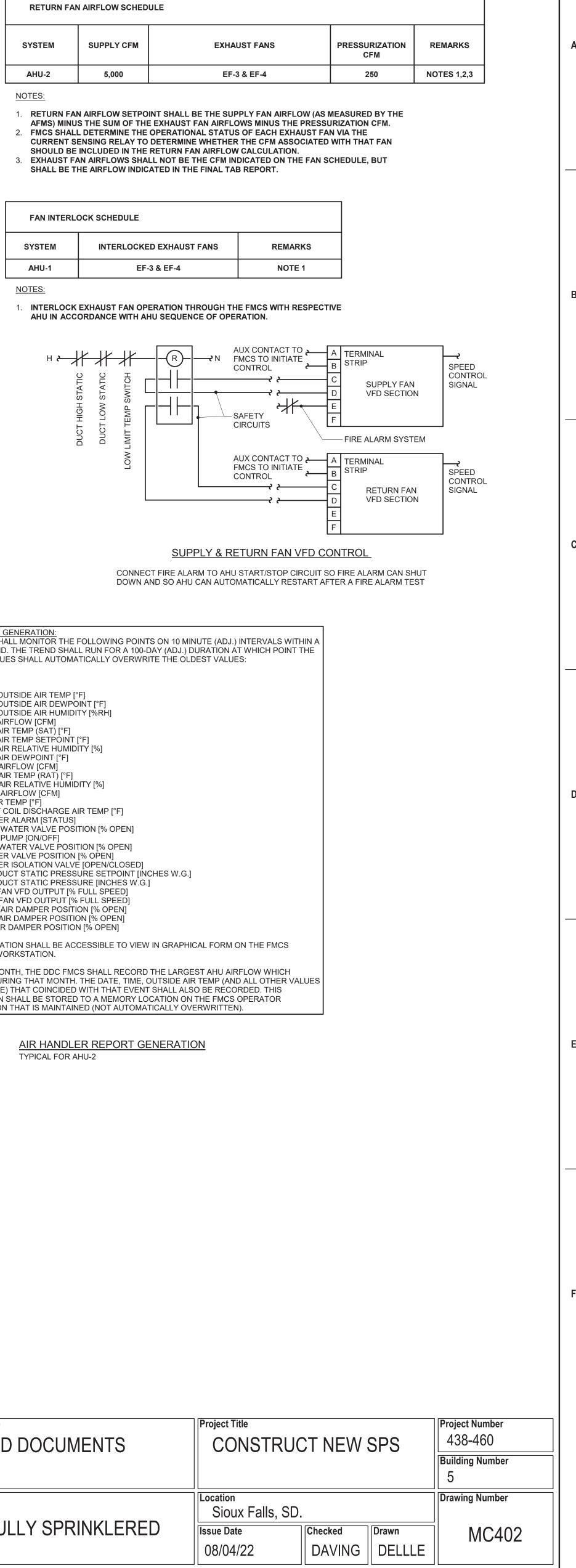


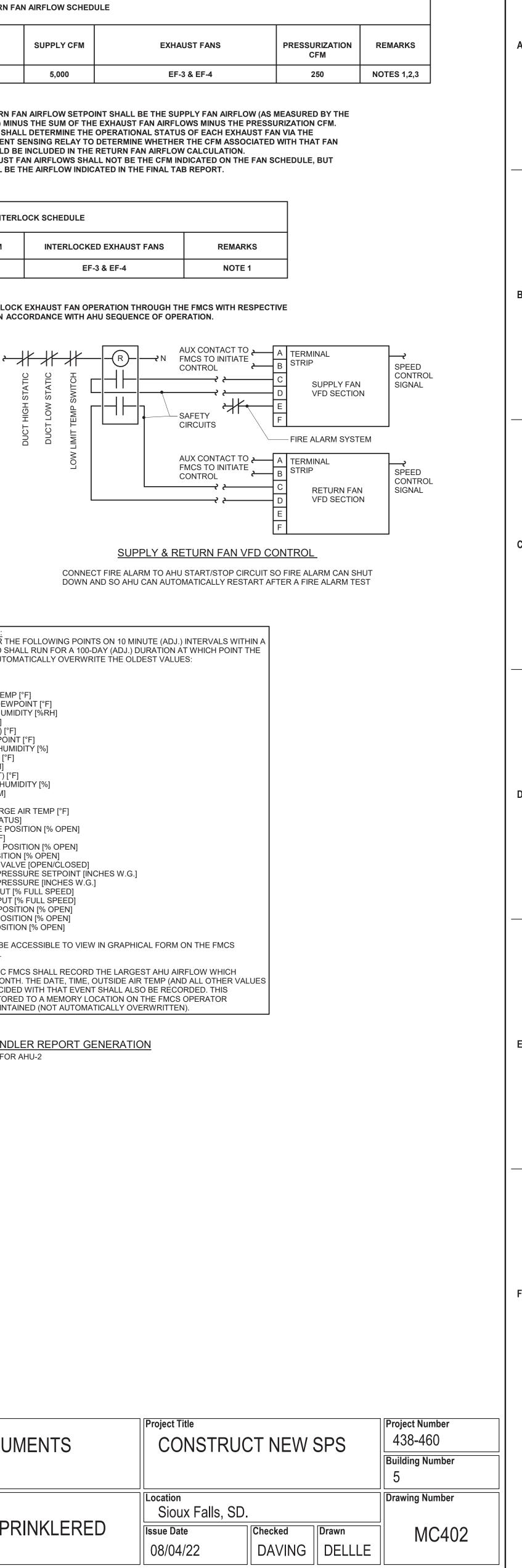


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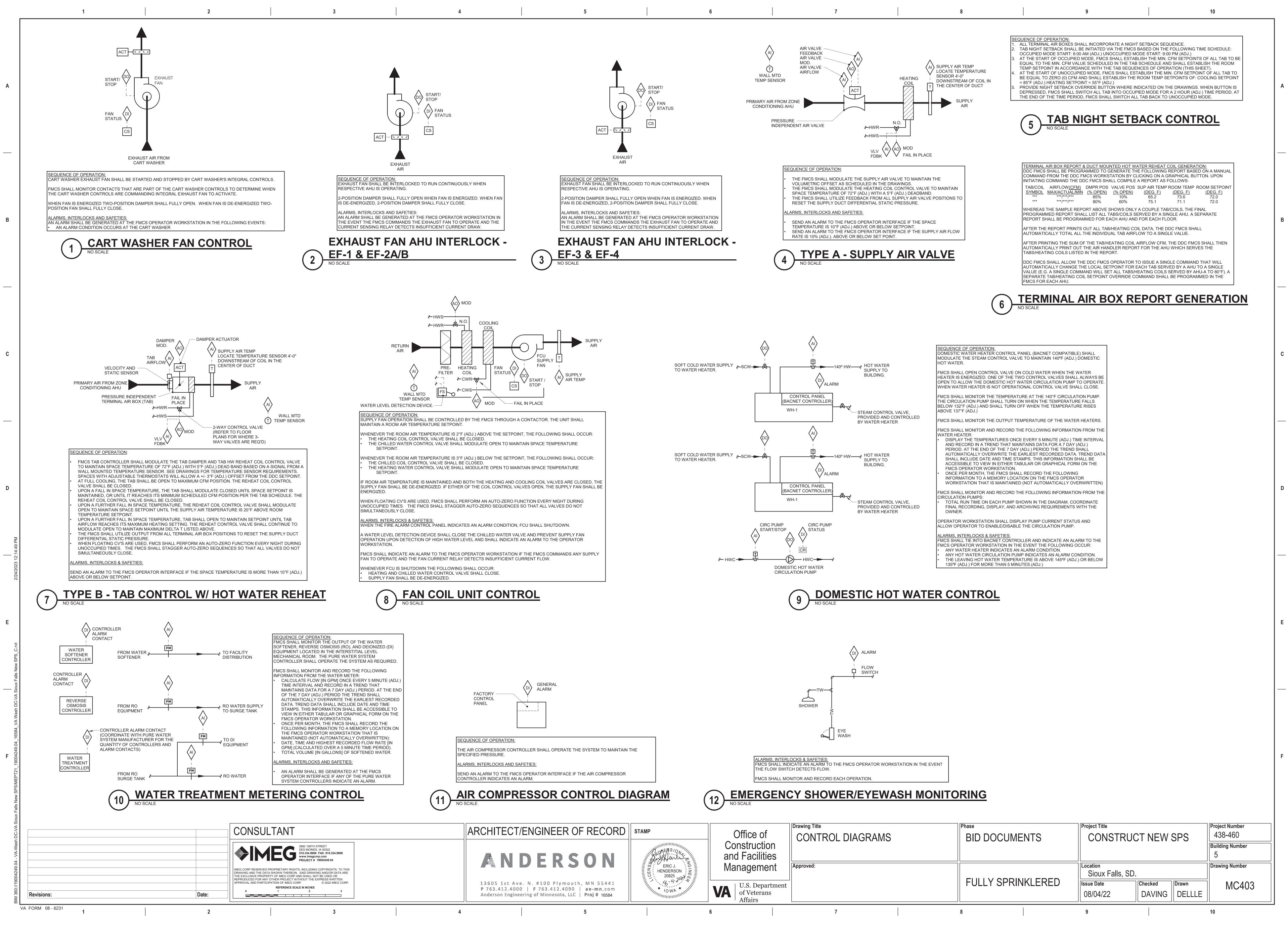


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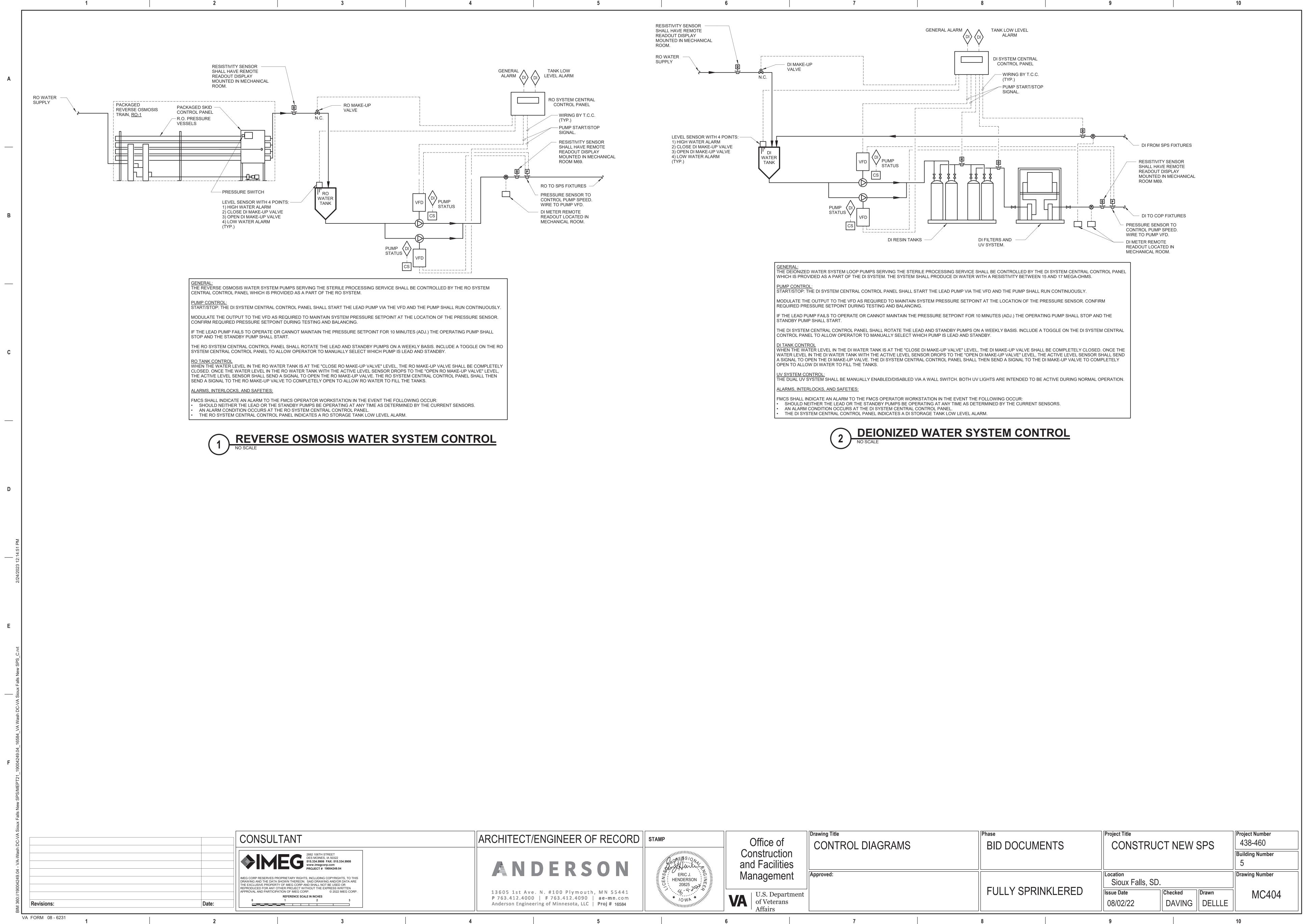
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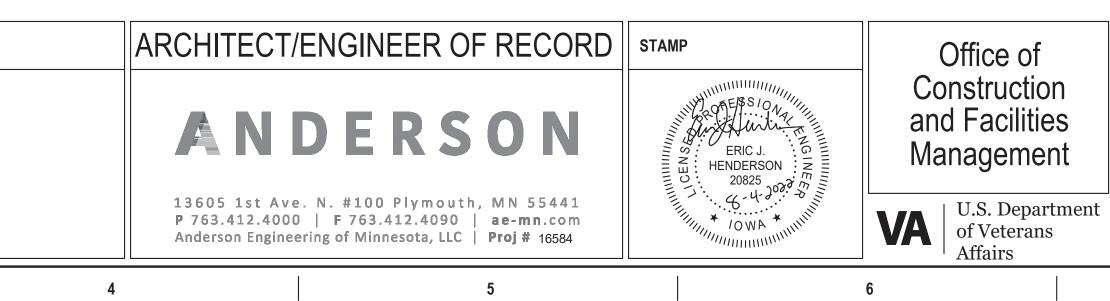
		VIE	W KEY		
NAME 10'-0"	LEVEL N HEIGHT PROJEC	ABOVE	1 INDIG ADD WOF SHE	IT RI	
NOF		<b>VIEW</b> 1/8" = 1'-0"	- INDICATES DIREC - PLAN OR DETAIL - PLAN OR DETAIL <b>/ NAME</b> - PLAN OR DETAIL		
	SIM 1- M101	IN MULTIPLE L - DETAIL REFEF	AILAR DETAIL REFE OCATIONS RRED TO BY SECTIONS IS LOCATED ON -	0	
LINE TYPE A	ND TAG KEY:				
	- NEW UNDER	BE REMOVED ( FLOOR OR UND	INE) SHORT DASHED P. ERGROUND (LONC S (NARROW LINE)		
			BY OTHERS (SHOR UNDERGROUND (I		
HALFTONING	G DOES NOT MO	DIFY SCOPE.			
'TAG'-E	TAGS WITH D	ASH 'E' INDICA	TES THE REFEREN	C	
<u>TAG-1</u>	-		S OBJECT IS IN-SC IN A SCHEDULE, M		
•	INDICATES A	N EXISTING SYS	STEM'S POINT OF C	:0	
	Α	PPLICA	BLE COD	E	
CONTRA	ACTOR SHALL CO	MPLY WITH AP	PLICABLE CODES	A	
JILDING COD	E:		BC 2021 EDITION		
RE CODE:		I	FC 2021 EDITION		
		I	PC 2021 EDITION		
ECHANICAL C			IMC 2021 EDITION		
			NFPA 70 (NEC) 2020 NFPA 101 2021 EDIT		
FE SAFETY C				Γ	
			IECC 2021 CURRENT EDITION		
CAL BUILDIN			CURRENT EDITION		
	IG CODE.				
	CONTRA	CTOR A	BBREVIA		
ABBR:	DESCRIPTI	ON:			
A.C.	ASBESTOS AB	ATEMENT CON	TRACTOR		
C.C. C.O.R.			PRESENTATIVE		
E.C.			PRESENTATIVE		
E.C.ELECTRICAL CONTRACF.P.C.FIRE PROTECTION CON			TOR		
G.C. GENERAL CONTRACTOR					
M.C. P.C.	MECHANICAL CONTRACTOR PLUMBING CONTRACTOR				
T.C. TECHNOLOGY CONTRACTOR					
T.C.C.	TEMPERATUR	E CONTROLS C	ONTRACTOR		
	CO		PERSONS		
DESCRIPTION:					
ROJECT MANAGER			RSON:	_	
ROJECT MAN			SON:	E	
PROJECT MAN		ERIC			
		ERIC	J. HENDERSON, P		

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# **PIPING SHEET IND**

MP000	PIPING COVERSHEET
MPD091	PIPE BASEMENT DEMOLITION PLAN - PIPING
MPD101	GROUND LEVEL FLOOR DEMOLITION PLAN - PIPI
MPD111	FIRST LEVEL DEMOLITION PLAN - PIPING
MPD151	FIFTH LEVEL DEMOLITION PLAN - PIPING
MP091	PIPE BASEMENT FLOOR PLAN - PIPING
MP101	GROUND LEVEL FLOOR PLAN - PIPING
MP111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - PIPING
MP121	ROOF PLAN - PIPING
MP400	PIPING DETAILS
MP401	PIPING DETAILS
MP500	STEAM FLOW DIAGRAM
MP501	HEATING WATER FLOW DIAGRAM
MP502	CHILLED WATER FLOW DIAGRAM
MP600	PIPING SCHEDULES
GRAND TOTAL: 15	



		PIPING SYMBO	L LIST	MECHANICAL G
INDICATES NOTE USED TO DESCRIBE		NOT ALL SYMBOLS MAY	APPLY.	THESE NOTES APPLY TO ALL MECHANICAL SHE
ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL	SYMBOL:	DESCRIPTION:		TO, FIRE PROTECTION, PLUMBING, VENTILATIO
	CWR	CHILLED WATER RETURN		DIAGRAMMATIC AND MAY NOT ALWAYS RE DRAWINGS SHOW THE GENERAL ARRANGE
IRECTION OF TRUE NORTH TAIL NUMBER	CWS	CHILLED WATER SUPPLY DRAIN		AND MAY NOT INCLUDE ALL OFFSETS AND INSTALLATION. THE DRAWINGS SHALL BE I
TAIL NAME	GWR	GLYCOL WATER RETURN		CONSTRUCTION AND THE WORK OF OTHEF 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIN ARCHITECTURAL, STRUCTURAL, SUBMITTA
IE	GWS	GLYCOL WATER SUPPLY HIGH PRESSURE CONDENSATE		PHYSICALLY AT SITE. REVIEW ALL DRAWING 3. COORDINATE ALL WORK WITH ALL OTHER
- TAIL SCALE	HPC HPS	HIGH PRESSURE STEAM		CLEARANCES REQUIRED FOR OPERATION, VERIFY NON-INTERFERENCE WITH OTHER VERIFICATION OF NECESSARY CLEARANCE
	HWR-	HEATING WATER RETURN		OR CONFLICTS TO THE ATTENTION OF THE WITH FABRICATION OR EQUIPMENT ORDER
REFERENCED	HWS	HEATING WATER SUPPLY REFRIGERANT LIQUID		4. REVIEW SPACE REQUIREMENTS OF EQUIP REASONABLE ACCOMMODATIONS IN LAYO
	LPC	LOW PRESSURE CONDENSATE		ACCESS. 5. ANY CHANGES REQUIRED TO ELIMINATE CO
DN - T101	LPS-	LOW PRESSURE STEAM		COORDINATE SHALL BE MADE BY THE CON EXPENSE TO OTHERS. 6. EACH CONTRACTOR IS RESPONSIBLE FOR
	PC SUC	PUMPED CONDENSATE REFRIGERANT SUCTION		CHANGES REQUIRED FOR EQUIPMENT PRO DESIGN.
	SV	SAFETY RELIEF VENT		<ol> <li>REFER TO ARCHITECTURAL REFLECTED CE AUDIO/VISUAL, AND OTHER MECHANICAL P MOUNTED DEVICES, OTHER THAN SPRINKL</li> </ol>
ED PATTERN)	VAC	LAB VACUUM PIPE CAP		<ol> <li>EACH CONTRACTOR IS RESPONSIBLE FOR FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR</li> </ol>
ONG DASHED PATTERN)	ə	PIPE DOWN		RESPONSIBLE FOR PATCHING TO MATCH C FINISH.
NE) HORT DASHED PATTERN)				9. IN AREAS WITH DRYWALL CEILINGS COORE GC FOR ACCESS TO VALVES, DUCTWORK A
ND (LONG DASHED PATTERN)		PITCH PIPE IN DIRECTION DIRECTION OF FLOW IN PIPE		PANEL TYPE AND COLOR WITH ARCHITECT PANELS PRIOR TO BIDDING. 10. SEAL ALL FLOOR, WALL, AND ROOF PENETI
	ı	DIELECTRIC CONNECTION		AND DUCTS PENETRATE. PENETRATIONS T SEALED AIRTIGHT WITH WATERPROOFING
RENCED OBJECT IS EXISTING		UNION/FLANGE SHUTOFF VALVE NORMALLY OPEN		FOR OUTDOOR USE. 11. CAULK ALL PIPE AND DUCT PENETRATIONS
N-SCOPE. IF NEW, ADDITIONAL LE, MATERIAL LIST, OR SYMBOL LIST	<b>→</b>	SHUTOFF VALVE NORMALLY CLOSED		PARTITION, FLOOR, AND ROOF ASSEMBLIE TRANSMISSION FROM ONE ROOM TO ANOT WITHIN ROOMS.
OF CONNECTION/REMOVAL	₩  ₩	THROTTLING VALVE BALANCING VALVE (NUMBER INDICATES (		12. WHERE PIPES AND DUCTS ARE SHOWN TO OPENINGS WITH THE TOP EDGE RAISED AE
		AUTOMATIC BALANCING VALVE	5F1VI)	RELEVANT SPEC SECTIONS. SEAL SLEEVE 13. EQUIPMENT SIZES AND SERVICE CLEARAN
DES	<b>₩</b>	CONTROL VALVE (THREE-WAY)		MANUFACTURERS. CONSULT APPROVED S REQUIRED SERVICE CLEARANCES. COORD PIPING, DUCTWORK, ETC.
DES AND LOCAL AMENDMENTS.	&	CONTROL VALVE (TWO-WAY)		14. DO NOT BLOCK TUBE PULL OR EQUIPMENT 15. MAINTAIN A MINIMUM WORKING CLEARANC
ON		CHECK VALVE		EQUIPMENT REQUIRING MAINTENANCE, INS LIMITED TO PANELS, DISTRIBUTION PANELS
NC	<b>NNN</b>	BACKFLOW PREVENTER		TRANSFORMERS, EQUIPMENT DISCONNEC 16. MAINTAIN THE DEDICATED ELECTRICAL EQ OF ELECTRICAL EQUIPMENT MEASURED FF
N				EQUIPMENT OR THE STRUCTURAL CEILING THE ELECTRICAL DISTRIBUTION SYSTEM A
ON		SAFETY/RELIEF VALVE		ELECTRICAL SPACE INCLUDING; DUCTWOR 17. PROVIDE CONCRETE EQUIPMENT PAD FOR
2020 EDITION	8	PRESSURE REDUCING VALVE (LIQUID/GA	S)	EXTEND MINIMUM 6" BEYOND ALL SIDES OF 18. DO NOT SUPPORT EQUIPMENT, PIPING, OR
EDITION		PRESSURE REDUCING VALVE (STEAM)		NON-STRUCTURAL BUILDING ELEMENTS. A CRACKED CONCRETE APPROVED IN ACCO
ΓΙΟΝ		PUMP		MECHANICAL RE
ΓΙΟΝ	Ŷ	VACUUM BREAKER		THESE NOTES APPLY TO ALL MECHANICAL SHE TO, FIRE PROTECTION, PLUMBING, VENTILATIO
		"WYE" - STRAINER		1. EXISTING CONDITIONS ARE SHOWN BASED SURVEYS, EXISTING BUILDING DOCUMENTS
IATION KEY		"WYE" - STRAINER W/SHUTOFF VALVE AN	D HOSE CONNECTION WITH CAP	REPORT ANY CONFLICTS BEFORE PROCEE 2. NOT ALL EXISTING DUCTWORK AND PIPING
		FLEXIBLE CONNECTION		BEFORE STARTING WORK. NOTIFY ENGINE 3. FIELD VERIFY THE AVAILABLE CLEARANCES
		PRESSURE/TEMPERATURE TEST PLUG REDUCER - REFERENCE SPECIFICATION		FABRICATION. RISES AND DROPS MAY BE N CONDITIONS. 4. EACH CONTRACTOR SHALL FIELD VERIFY A
E		FOR CONCENTRIC/ECCENTRIC AND FOT/F		SHALL NOTIFY THE GENERAL CONTRACTOR REQUIRED TO BE REMOVED OR RELOCATE
	문	AUTOMATIC AIR VENT		5. THE GENERAL CONTRACTOR IS RESPONSI ROOFS, WALLS, AND FLOORS ASSOCIATED
	l t	MANUAL AIR VENT		6. THE GENERAL CONTRACTOR IS RESPONSI
	↓ ↑ ★	DRAIN VALVE WITH HOSE CONNECTION A	ND CAP	CEILINGS, CEILING TILES, AND CEILING GRI CONTRACTORS. NOTIFY THE GENERAL COI BIDDING.
				<ol> <li>WHERE EXISTING MECHANICAL SYSTEMS A NEW EQUIPMENT, PIPING, OR DUCTWORK</li> </ol>
	×₽  ×₽	PRESSURE SENSOR (FURNISHED WITH BA PRESSURE GAUGE (FURNISHED WITH BA	,	EITHER ARRANGE NEW EQUIPMENT, PIPINO DOES NOT CONFLICT WITH EXISTING SYSTI
	FM	FLOW METER	,	SYSTEMS TO ALLOW FOR INSTALLATION OF 8. PROVIDE TEMPORARY CONNECTIONS TO M CONSTRUCTION. MAINTAIN ACCESS TO EXI
NS:				REMAIN ACTIVE. 9. OBTAIN PERMISSION FROM OWNER BEFOR
		FLOW SWITCH		REASON. MAINTAIN SERVICE TO ALL COMP SYSTEMS ARE INSTALLED.
N, PE	□ □₩	TEMPERATURE SENSOR WITH WELL		10. MAINTAIN EXISTING SYSTEM IN SERVICE UN TIE IN AND SWITCHOVER. DRAIN SYSTEM O CONNECTIONS. OBTAIN PERMISSION FROM
LYN, PE		THERMOMETER WITH WELL (DIAL TYPE)		DRAINING SYSTEM. MAKE CHANGEOVER TO 11. DISCONNECT AND REMOVE MECHANICAL D
-	ļ	THERMOMETER WITH WELL (FILLED TYPE	Ξ)	THAT HAS BEEN REMOVED.
		STEAM TRAP (REFER TO SCHEDULE)	, 	PIPING GEN
IDEX		· · · · · · · · · · · · · · · · · · ·		1. THE SIZE OF BRANCH PIPING TO TERMINAL UNLESS NOTED OTHERWISE.
IG		F&T STEAM TRAP (REFER TO SCHEDULE)		<ol> <li>PIPE DRAIN LINES FROM EQUIPMENT TO NE</li> <li>INSTALL ALL REFRIGERANT LIQUID AND SUMANUFACTURER RECOMMENDATIONS.</li> </ol>
I - PIPING	<u>T-*</u>	ALIGNMENT GUIDE	TO SCHEDULE)	
	×	PIPE ANCHOR		
PIPING		METER		
		TERMINAL AIR BOX w/REHEAT COIL (REFE	R TO SCHEDULE)	
	$H \vee \vee \vee$	HUMIDIFIER		
		PIPING ABBREVIA		
	ABBR:	DESCRIPTION:		
	ABBR:	ACCESS DOOR		
	AFF	ABOVE FINISHED FLOOR		
	DPS	DIFFERENTIAL PRESSURE SWITCH		
	EA N.C.	EXHAUST/RELIEF AIR NORMALLY CLOSED		
	NIC	NOT IN CONTRACT		
	N.O.			
	OA PS	OUTSIDE AIR PRESSURE SWITCH		
	RA	RETURN AIR		
	SA SCCR	SUPPLY AIR SHORT CIRCUIT CURRENT RATING		
	TYP	TYPICAL		
	UON	UNLESS OTHERWISE NOTED		
e of Drawing Title				
e of PIPING C	OVERSH		BID DOCUMENTS	
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ement				Location
				Sioux Falls, SD.
Department			FULLY SPRINKLER	ED Issue Date Checked

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08/04/22

### GENERAL NOTES:

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IEETS AND TRADES, INCLUDING BUT NOT LIMITED ON, PIPING AND TEMPERATURE CONTROL. JIPMENT, DUCTWORK, PIPING, ETC. ARE EFLECT EXACT INSTALLATION CONDITIONS. SEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., FITTINGS REQUIRED FOR COMPLETE

FOLLOWED AS CLOSELY AS ACTUAL BUILDING ERS WILL PERMIT. IMENSIONS AND CLEARANCES FROM ALS, AND OTHER APPROPRIATE DRAWINGS OR NGS, INCLUDING THOSE OF OTHER TRADES. TRADES PRIOR TO INSTALLATION TO PROVIDE I, MAINTENANCE, CODE COMPLIANCE, AND TO WORK. DO NOT FABRICATE PRIOR TO ES FOR ALL TRADES. BRING ANY INTERFERENCES E ARCHITECT/ENGINEER BEFORE PROCEEDING

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PMENT SPECIFIED OR SUBSTITUTED AND MAKE OUT AND POSITIONING TO PROVIDE PROPER

CONFLICTS OR THAT RESULT FROM A FAILURE TO NTRACTOR WITHOUT ADDITIONAL COST OR R ALL COSTS ASSOCIATED WITH ELECTRICAL OPOSED THAT DIFFERS FROM THE BASIS OF

EILING PLAN, ELECTRICAL, TECHNOLOGY PLANS FOR EXACT LOCATIONS OF ALL CEILING LERS.

R DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, ITRACTOR WHOSE WORK CAUSES DAMAGE IS ORIGINAL CONSTRUCTION, FIRE RATING, AND DINATE LOCATIONS OF ACCESS PANELS WITH THE

ACCESSORIES, DAMPERS, ETC. COORDINATE T. NOTIFY THE GC OF THE REQUIRED ACCESS TRATIONS AIRTIGHT WHERE CONDUITS, PIPING,

THROUGH EXTERIOR WALLS AND ROOF SHALL BE MATERIALS RECOMMENDED BY MANUFACTURER S OF FULL HEIGHT NON-FIRE RATED WALL, ES. THIS IS ESSENTIAL TO PREVENT NOISE

THER AND TO PROVIDE THE DESIRED NC LEVELS O PENETRATE FLOORS, PROVIDE SLEEVED BOVE FLOOR SURFACE IN ACCORDANCE WITH ALL E PERIMETER TO BE WATERTIGHT. NCE REQUIREMENTS VARY AMONG DIFFERENT SHOP DRAWINGS FOR EQUIPMENT SIZES AND DINATE WITH LAYOUT OF EQUIPMENT PADS,

T SERVICE CLEARANCES. CE OF 3'-6" IN FRONT OF ALL ELECTRICAL ISPECTION, AND TESTING INCLUDING BUT NOT S, SWITCHBOARDS, MOTOR CONTROL CENTERS, CTS AND STARTERS. QUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH ROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE G, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO ARE NOT ALLOWED IN THE DEDICATED RK, PIPING, ETC. R ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL F EQUIPMENT. R DUCTWORK FROM METAL DECKING OR OTHER

ANCHORS EMBEDDED IN CONCRETE SHALL BE ORDANCE WITH SPECIFICATIONS. **ENOVATION NOTES:** 

IEETS AND TRADES, INCLUDING BUT NOT LIMITED ON, PIPING AND TEMPERATURE CONTROL. D ON INFORMATION OBTAINED FROM FIELD TS, AND STAFF. VERIFY EXISTING CONDITIONS AND EDING. G IS SHOWN. VERIFY EXISTING CONDITIONS

EER OF ANY CONFLICTS WITH NEW WORK. ES FOR DUCTWORK AND PIPING BEFORE NECESSARY BECAUSE OF EXISTING FIELD ACCESSIBILITY TO THE AREA OF THEIR WORK AND

OR PRIOR TO BIDDING IF OTHER UTILITIES ARE ED TO ALLOW ACCESS TO THEIR AREA OF WORK. IBLE FOR CUTTING, REMOVAL AND PATCHING OF D WITH WORK BY ALL CONTRACTORS. AFFECTED AREAS PRIOR TO BIDDING. IBLE FOR REMOVAL AND REPLACEMENT OF

RIDS ASSOCIATED WITH AREAS OF WORK BY ALL ONTRACTOR OF AFFECTED AREAS PRIOR TO ARE LOCATED IN AREAS THAT CONFLICT WITH TO BE INSTALLED, EACH CONTRACTOR SHALL IG, OR DUCTWORK IN SUCH A FASHION THAT IT

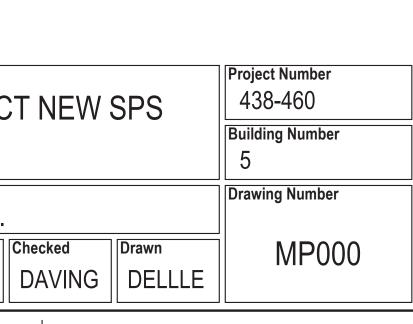
TEMS, OR REWORK EXISTING MECHANICAL OF NEW EQUIPMENT, PIPING, OR DUCTWORK. MAINTAIN EXISTING SYSTEMS IN SERVICE DURING KISTING MECHANICAL INSTALLATIONS THAT

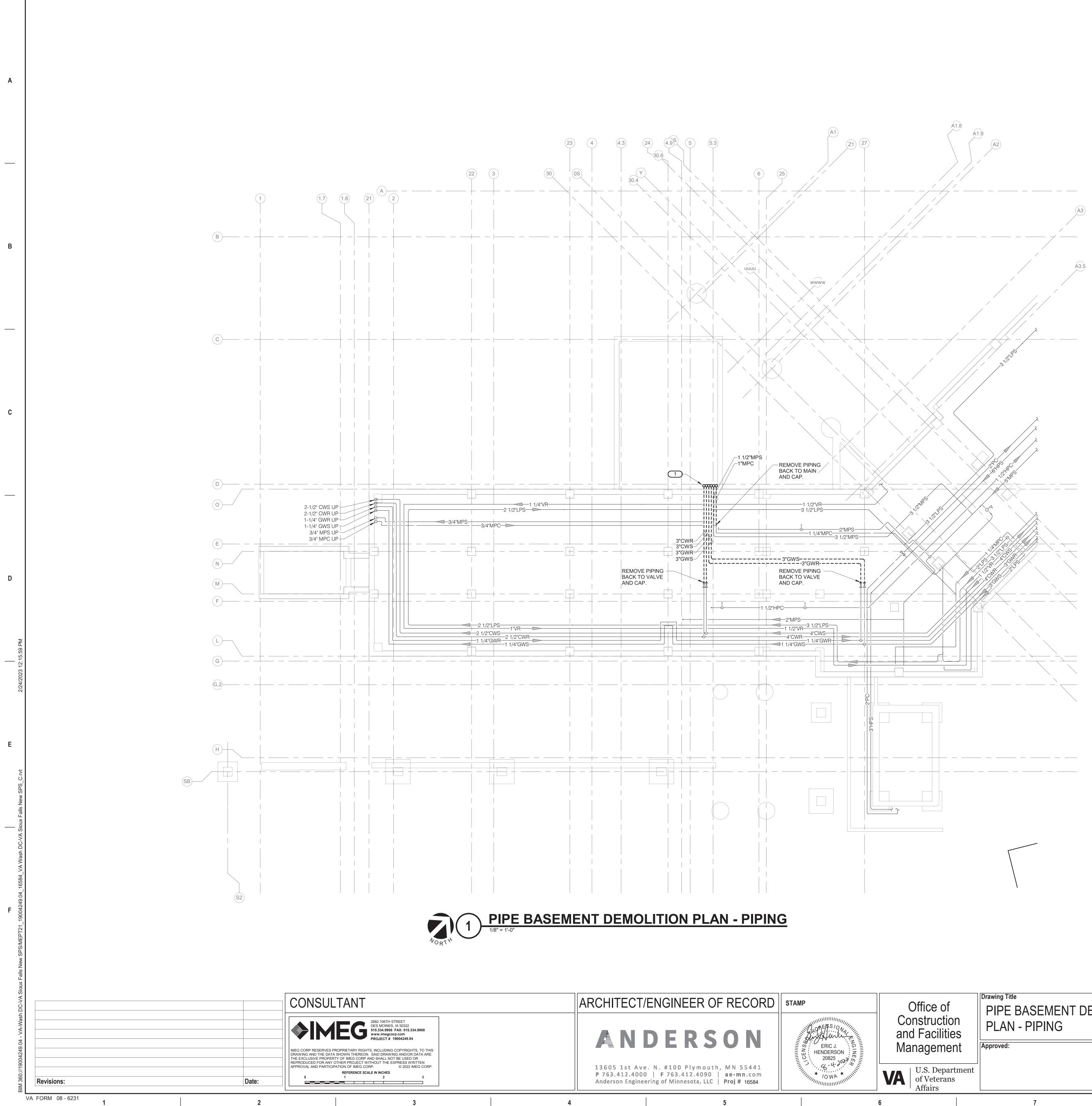
RE SHUTTING DOWN ANY SYSTEM FOR ANY PONENTS THAT ARE TO REMAIN UNTIL NEW

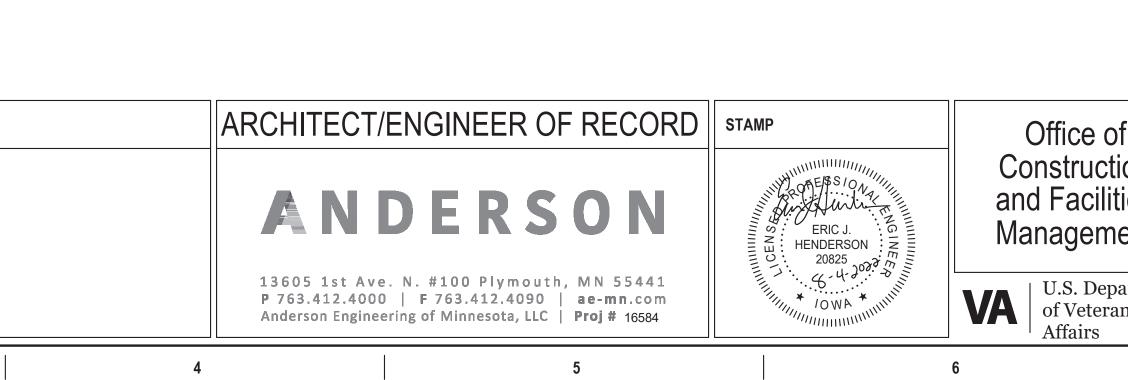
INTIL NEW SYSTEM IS COMPLETE AND READY FOR ONLY TO MAKE SWITCHOVERS AND M OWNER BEFORE PARTIALLY OR COMPLETELY O NEW SYSTEMS WITH MINIMUM OUTAGE. DEVICES AND EQUIPMENT SERVING EQUIPMENT

## NERAL NOTES:

L HEATING DEVICES AND COILS SHALL BE 3/4" IEAREST FLOOR DRAIN. JCTION PIPING SIZED PER EQUIPMENT







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of ction ilities	Drawing Title PIPE BASEMENT DEMC PLAN - PIPING	Phase BID DOCUMENTS		Project Title CONSTRUCT NE		
ment	Approved:			Location Sioux Falls, SD.		
)epartment erans s			FULLY SPRINKLERED		Issue Date 08/04/22	Checked DAV
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### **GENERAL PIPING DEMOLITION NOTES:**

**REFERENCE MP000 - PIPING COVERSHEET FOR** PIPING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES. 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. COMPLETE LAYOUT DRAWINGS SHALL BE

**REQUIRED BY SPECIFICATION SECTION 23 05** 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.

DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.

DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.

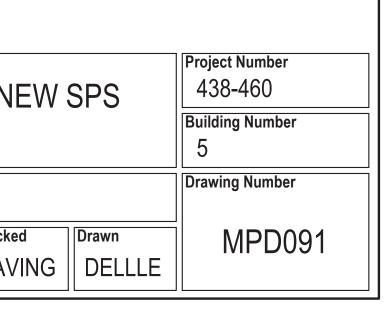
NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWING. CONTRACTOR SHALL CONFIRM EXTENT OF DEMOLITION AT THE SITE.

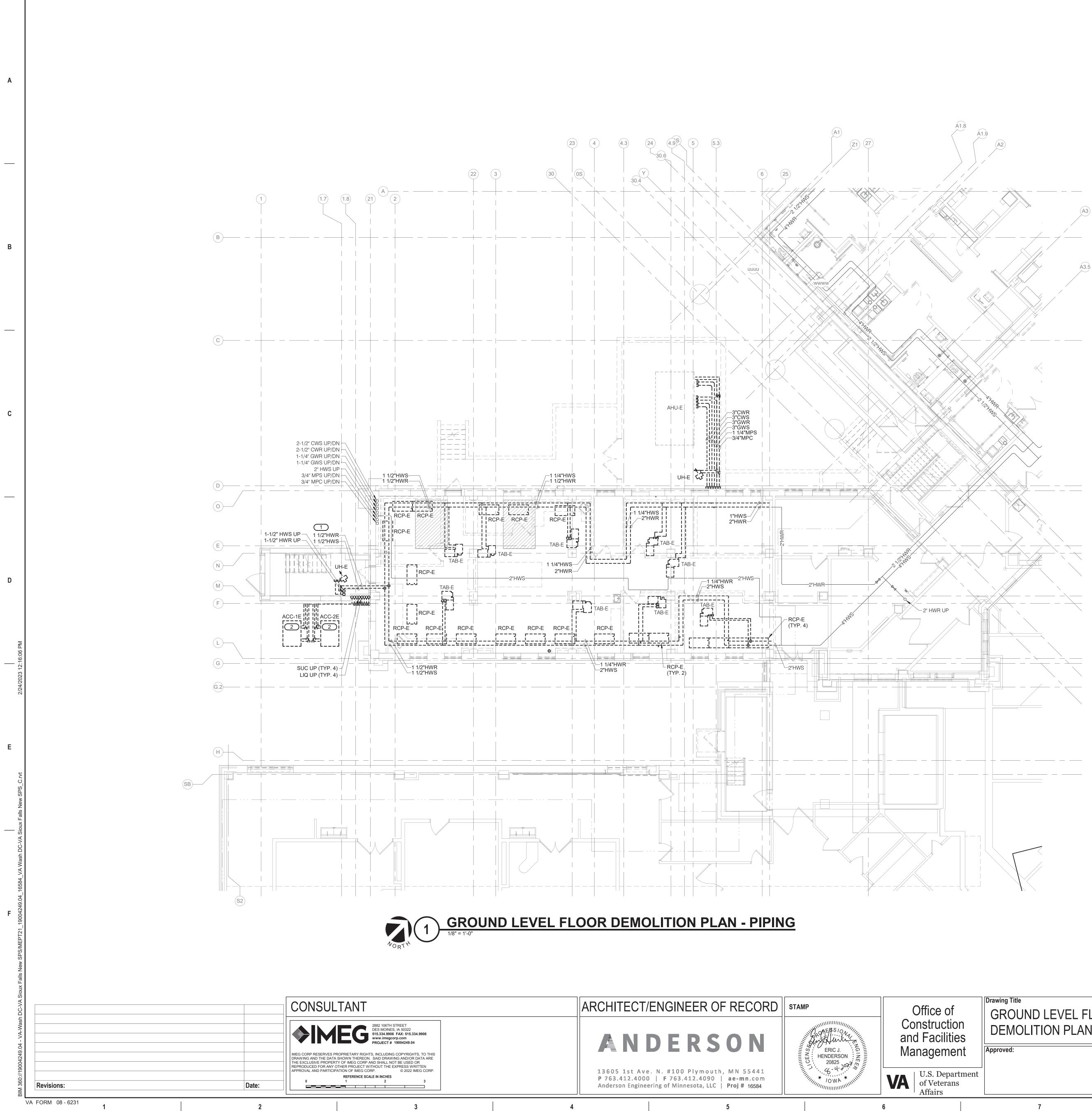
KEYNOTES: #

REMOVE CHILLED WATER, HEATING WATER, STEAM, AND CONDENSATE UP THROUGH SLAB INTO EXISTING MECHANICAL ROOM.

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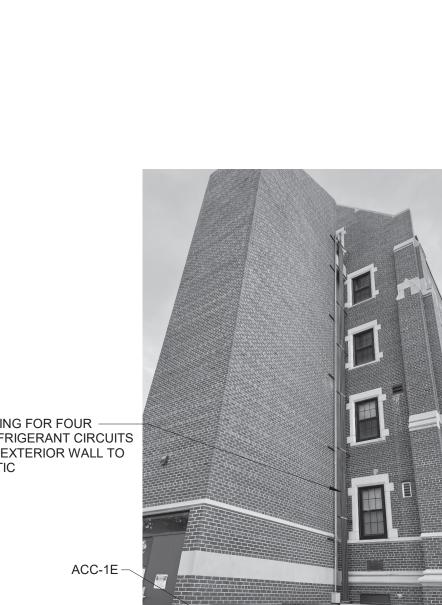
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of ction ilities	Drawing Title GROUND LEVEL FLOOF DEMOLITION PLAN - PI	Phase BID DOCUM	Project Title CONSTRUCT NE			
ment	Approved:			Location Sioux Falls, SD.		
epartment erans	FULLY SPRINKLE		NKLERED	Issue Date 08/04/22	Checked DAVI	
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### **EXISTING REFRIGERANT PIPING DEMOLITION DETAIL** 2 12" = 1'-0"

ACC-2E





UP EXTERIOR WALL TO ATTIC





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### **GENERAL PIPING DEMOLITION NOTES:**

**REFERENCE MP000 - PIPING COVERSHEET FOR** PIPING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES. 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. COMPLETE LAYOUT DRAWINGS SHALL BE

**REQUIRED BY SPECIFICATION SECTION 23 05** 11. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL SYSTEM LAYOUT DRAWINGS HAVE BEEN APPROVED BY THE C.O.R. CONTRACTOR SHALL MINIMIZE DOWNTIME OF EXISTING SYSTEMS BY INSTALLING NEW SYSTEMS PRIOR TO TYING INTO EXISTING. NOTIFY C.O.R. A MINIMUM OF 24 HOURS PRIOR TO SYSTEM SHUTDOWN.

DEMOLISH ALL EXISTING HANGERS, INSULATION, DAMPERS, AND ACCESSORIES ASSOCIATED WITH MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHOWN TO BE REMOVED ON THESE PLANS UNLESS

OTHERWISE NOTED. DEMOLISH ALL EXISTING CONTROL DEVICES, WIRING, AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SHOWN TO BE REMOVED ON THESE PLANS UNLESS OTHERWISE NOTED.

NOT ALL MECHANICAL DEMOLITION IS EXPLICITLY SHOWN ON THE DRAWING. CONTRACTOR SHALL CONFIRM EXTENT OF

DEMOLITION AT THE SITE. KEYNOTES: #

EXISTING HEATING WATER PIPING IS ROUTED ON FLOOR IN STAIRWELL PRIOR TO RISING UP STAIR TOWER. REMOVE PIPING ROUTED ON FLOOR AND PREPARE RISERS ABOVE GROUND FLOOR FOR NEW CONNECTION. EXISTING AIR-COOLED CONDENSING UNITS PREVIOUSLY SERVED A MODULAR CHILLER LOCATED IN THE 5<sup>TH</sup> LEVEL ATTIC SPACE WHICH HAS BEEN TRANSITIONED TO A NEW COOLING TOWER. CHILLERS SHALL BE REMOVED FROM EXISTING LOCATION. COORDINATE REMOVAL OF CHILLERS WITH CONTRACTING OFFICER'S REPRESENTITIVE. PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT.

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- REMOVE POWER AND CONTROLS CONDUITS COORDINATE WITH ELECTRICAL CONTRACTOR.

- REMOVE REFRIGERANT PIPING.

- REMOVE PIPE SUPPORT BRACKETS. COORDINATE WALL PATCHING WITH ARCHITECT.

