

MECHANICAL LOWER LEVEL - HVAC PRESSURE PLAN

MECHANICAL NOTES:

ROOM NUMBER

BB-18C

BB-18E

BB-20

BB-20A

BB-20B

- THESE **EXISTING** DAMPERS WILL BE USED TO MANAGE THE PRESSURE OF THEIR RESPECTIVE ROOMS IN THE NEW SANITATION PROCESSING DESIGN.
- 2 THESE **NEW** DAMPERS WILL BE USED TO MANAGE THE PRESSURE OF THEIR RESPECTIVE ROOMS IN THE NEW SANITATION PROCESSING DESIGN.
- 3 IN ALL AREAS INDICATED, INSTALL BALL IN THE WALL ADI-69-V-P (POSITIVE) PRESSURE ROOM) 1 FOOT BELOW FINISHED CEILING. ALSO INSTALL A SETRA LITE ELECTRONIC PRESSURE INDICATOR 5' AFF JUST BELOW THE BALL IN THE WALL, ON BOTH SIDES OF THE WALL.

ROOM NAME

PREP / ASSEMBLY / STORAGE

LOW TEMP STERILIZERS

RECEIVING / DECONTAMINATION

STERILIZERS

SCOPE PROCESSING





KEY PLAN

PRESSURE RATING	RELATIVE PRESSURE (MIN.)	CFM DIFFERENTIAL
+	+0.01" WC	+540 CFM
++	+0.02" WC	+100 CFM
	-0.02" WC	-400 CFM
-	-0.01" WC	-200 CFM

-50 CFM

-0.01" WC

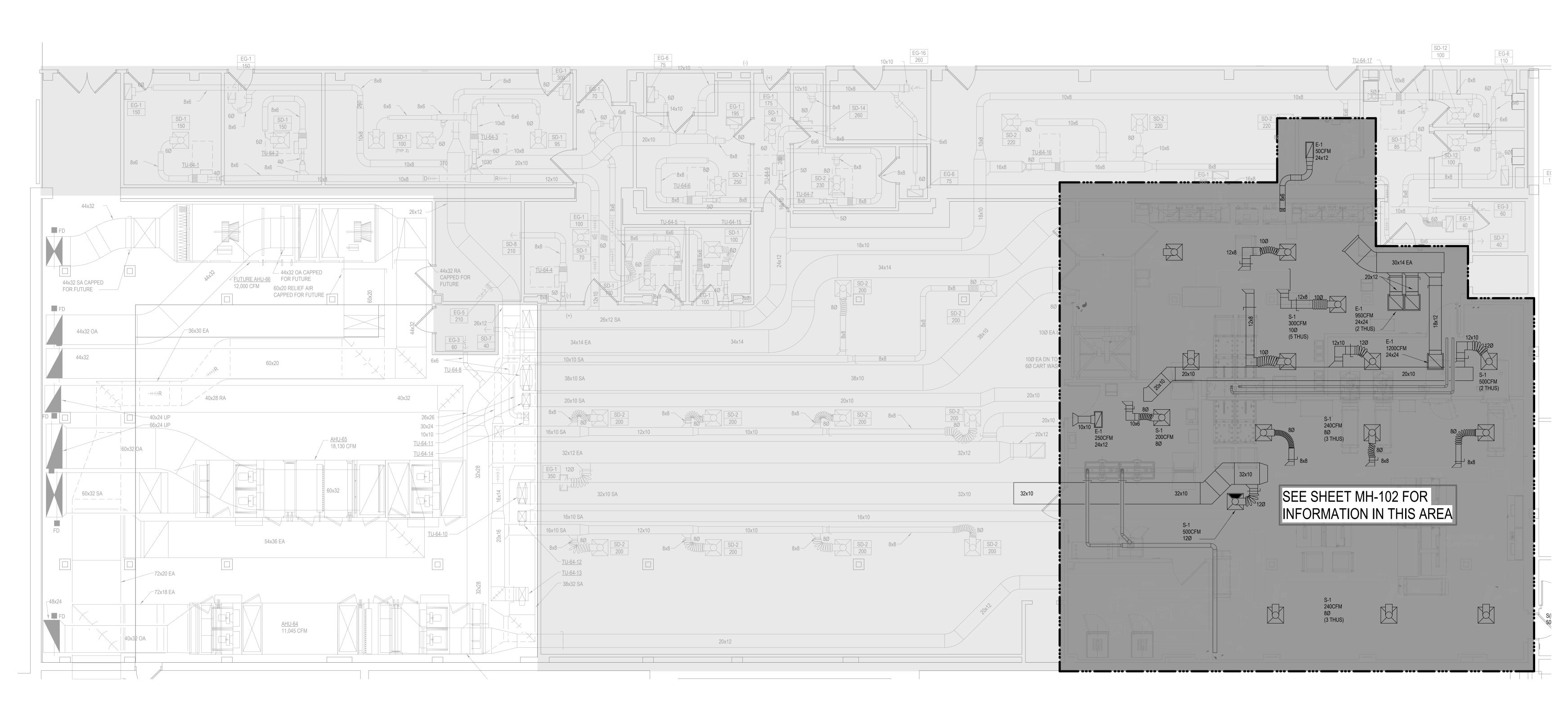
2 SETRA LITE PRESSURE SENSORS
NOT TO SCALE

BALL IN WALL ADI-69-V-P

DID DOCLIMENT STIRMISSION

LOWER LEVEL

23_st		Assembly Code							BID DOCUMEN	II SUBMISSION
.639-ME-R	CONSULTANT		DESIGNER OF RECORD		STAMP	Office of	Drawing Title MECHANICAL LOWER LEVEL - HVAC	Phase DID DOCLIMENTS	Project Title PERFORM SITE PREP	Project Number 437-CSI-241
ocuments/17	♦IME	G	ANDERSO	N	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the	Construction and Facilities	PRESSURE PLAN	DID DOCUMENTS	FOR SPS EQUIPMENT	Building Number 9
Forsberg/Dc	2882 106TH STREET DES MOINES IA 50322	NES IA 50322 13605 1st Ave. N. #100 Plymouth, MN 55441		State of Minnesota Print Name: Kirby J Quamen Signature: Kirby J Quamen	Management Approved:	FULLY SPRINKLERED	FARGO, ND	Drawing Number		
Revisions:	Date:		P 763.412.4000 F 763.412.4090 ae-mn Anderson Engineering of Minnesota, LLC Proj # 1		Date 01/22/2025 License # 52555	U.S. Department of Veterans Affairs	it	FULLI SPRIMALERED	Issue Date 01/22/2025 Checked KAH SEF	MH-102
VA FORM 08 - 6231 1	2	3	4	5		6	7	8	9	10

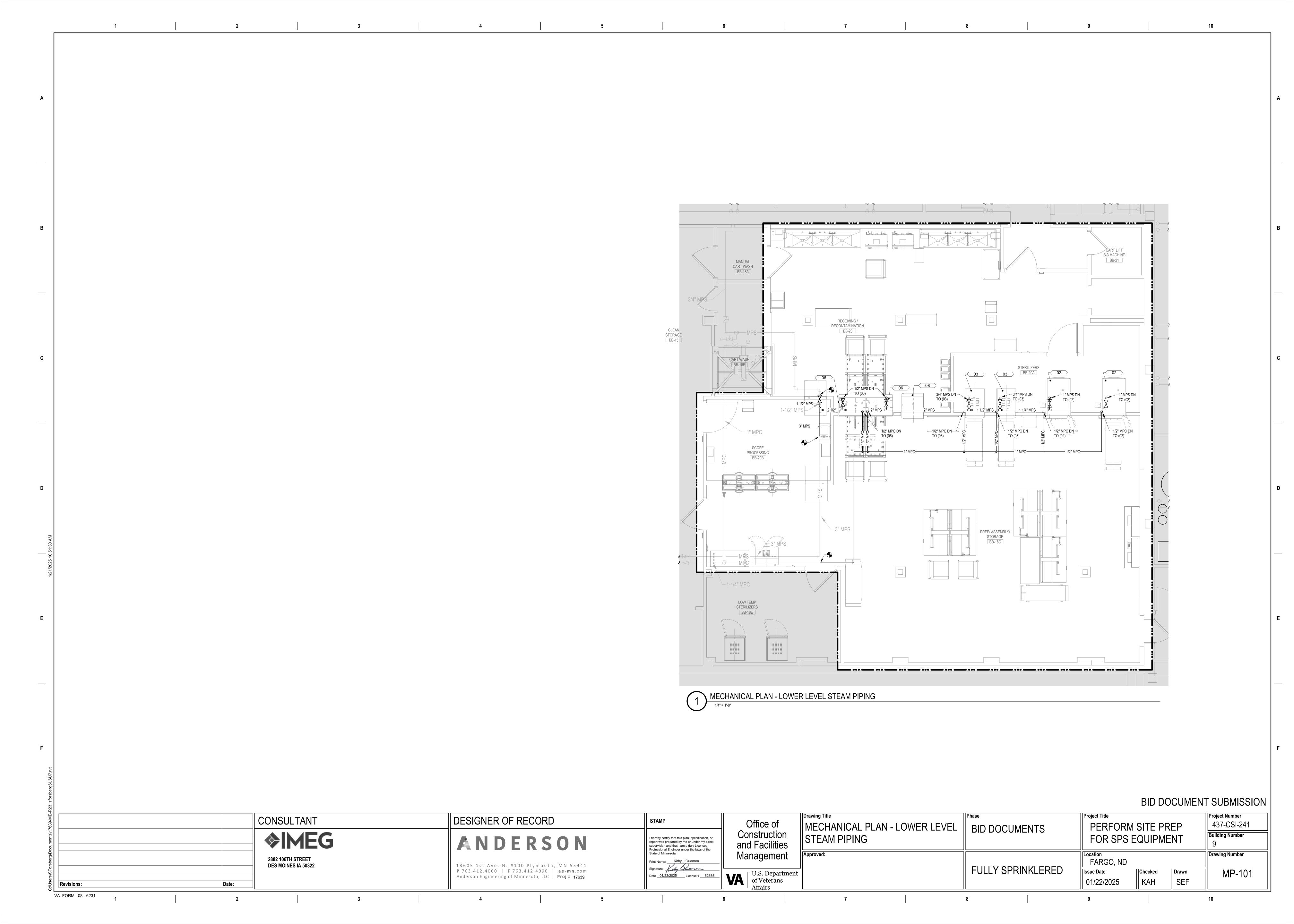


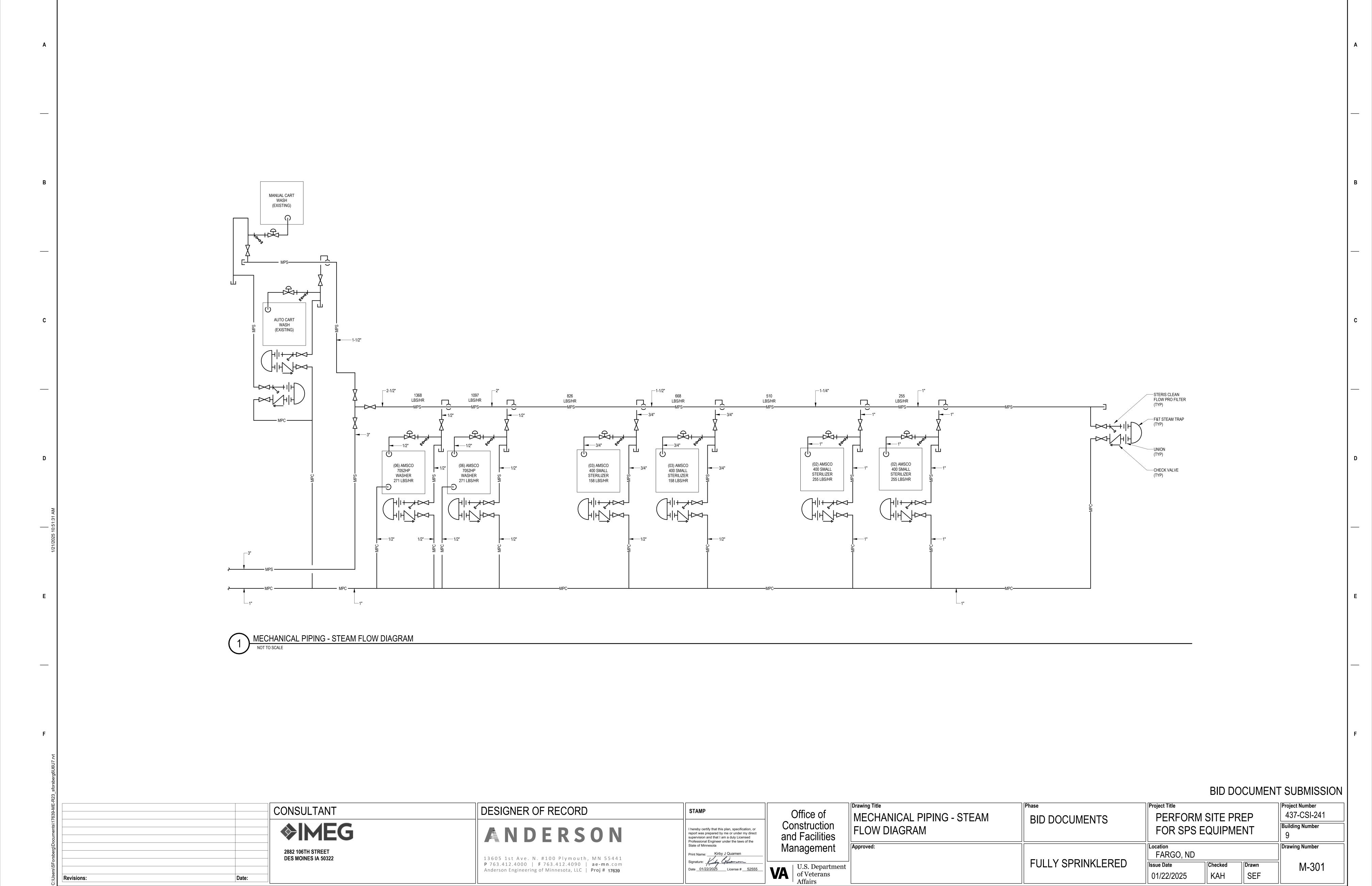
MECHANICAL LOWER LEVEL - HVAC - SURROUNDING TAB

AFTER DEMOLITION OF REMODELED SPS SPACE, VERIFY CURRENT CFMS IN THE NEARBY SPACES, BOTH SUPPLY AND EXHAUST CFM, ARE CLOSE TO THE CFMS INDICATED ON THE PLANS. THIS AREA IS THE LIGHT SHADED AREA. IF NEEDED PLEASE REBALANCE SYSTEM TO BE WITHIN 10% OF INDICATED CFMS. AFTER REMODEL IS COMPLETE INCLUDE THIS AREA WITH FINAL TEST AND BALANCE OF SYSTEM.

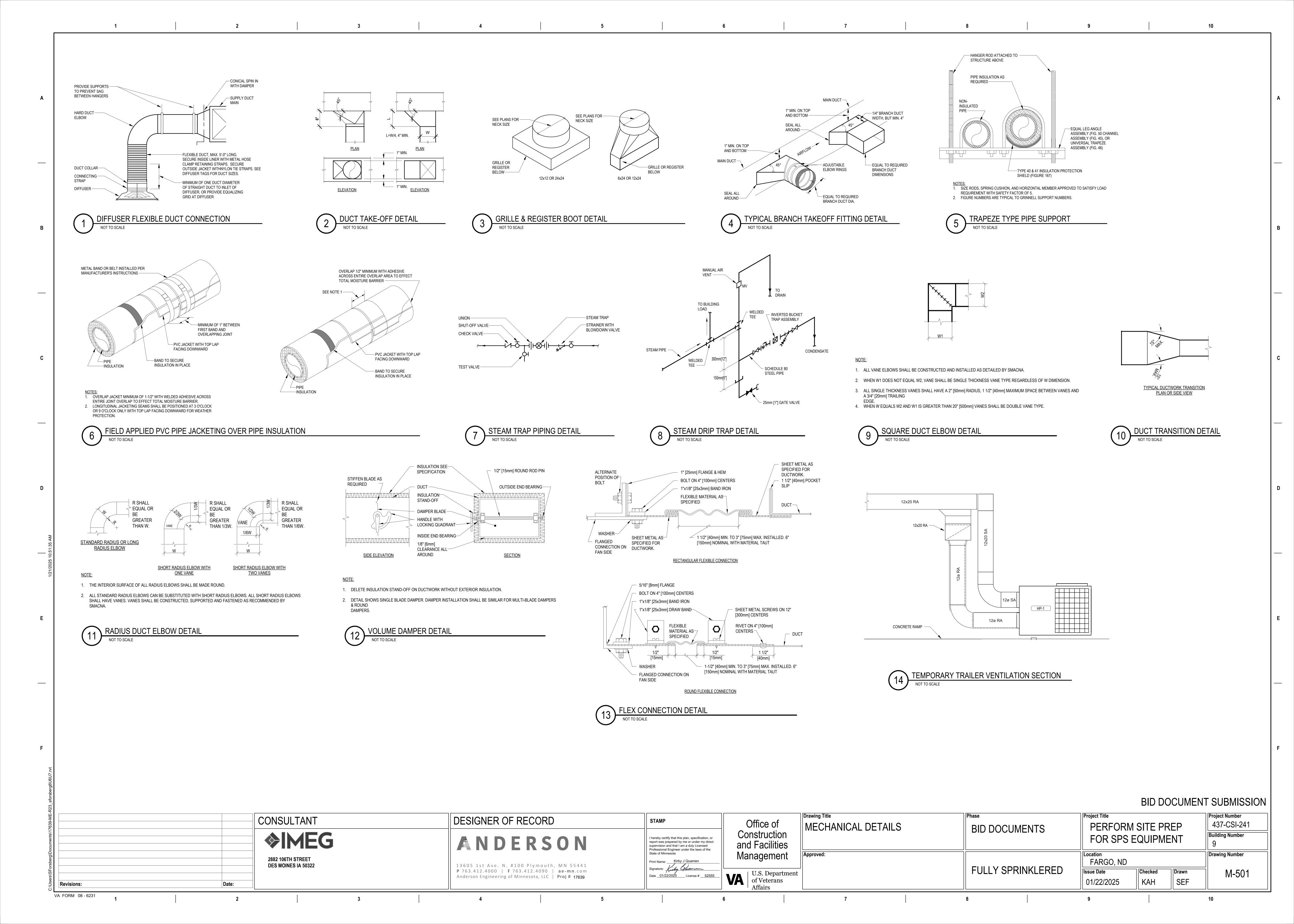
BID DOCUMENT SUBMISSION

131-200		CONSULTANT	DESIGNER OF RECORD	STAMP	Office of	Drawing Title MECHANICAL LOWER LEVEL - HVAC	Phase BID DOCUMENTS	Project Title PERFORM SITE PREP	Project Number 437-CSI-241
OCULIE IN COLOR		♦IMEG	ANDERSON	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the	Construction and Facilities	- SUROUNDING TAB	BID DOCUMENTS	FOR SPS EQUIPMENT	Building Number
1 Spanish		2882 106TH STREET DES MOINES IA 50322	13605 1st Ave. N. #100 Plymouth, MN 55441	State of Minnesota Print Name: Kirby J Quamen	Management Approved:		FARGO, ND	Drawing Number	
Revisions:	Date:		P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 17639	Date 01/22/2025 License # 52555	U.S. Department of Veterans Affairs	nt	FULLY SPRINKLERED	Issue Date Checked Drawn SEF	MH-103





VA FORM 08 - 6231



HEAT INPUT # OF HEATING ELEMENTS 307 GPH RECOVERY (100°F RISE) VOLTAGE/PHASE 480/3 108 AMPS DIMENSIONS 26.5" Ø x 58" TALL 344 LBS (DRY) . MAKE AND MODEL SHALL BE BASIS OF DESIGN OR APPROVED EQUAL. PUMP SCHEDULE NUSTREAM FILTRATION GOULDS MODEL LOOP BOSS LB30 15HM04N55T6PBQE POWER STORAGE TANK SCHEDULE FLOW RATE (GPM) 30 GPM 25 MIN, 127 MAX PRESSURE 35 PSI 275 FEET WC (MAX) CUSTOM ROTO MOLDING NUSTREAM FILTRATION TANKPAC INDUSTRIES VOLTAGE/PHASE 115/1 RO-2000 400 RTT 250 GALLONS 20 GALLONS 400 GALLONS EFFICIENCY MAX PRESSURE DIMENSIONS (WxDxH") 24.5 x 28 x 63" 6 x 16 x 9" DIMENSIONS (WxDxH") 50 x 45 x 92" 15.5" Ø x 31.6" TALL 58 x 34 x 54" 236 LBS 1,2,3,6 1. VENT FILTER CARTRIDGE MODEL - 301520 1. ENDOTOXIN FILTER - 304SS, 5 CARTRIDGES, UP TO 50 GPM 2. TANK MUST FIT THROUGH 36" DOOR 2. UV SYSTEM - 316SS, UP TO 40 GPM @ 30mJ/cm 3. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR APPROVED EQUAL 3. GRUNDFOS CM PUMP 4. PROVIDE SUITABLE GOULDS VFD WITH PUMP 5. 316SS CONSTRUCTION Assembly Code 6. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR APPROVED EQUAL. Assembly Code **RO WATER GENERATOR SCHEDULE EXPANSION TANK SCHEDULE** NUSTREAM FILTRATION AXEON **BELL & GOSSETT** MODEL PTA-20V MOUNT TYPE FLOOR MOUNTED WALL MOUNTED TANK VOLUME NOMINAL REJECTION 99% ACCEPTANCE VOLUME 5.3 GAL 50-75% RECOVERY RATE ORIENTATION PLUMBING FIXTURE SCHEDULE VERT. FLOOR MOUNT 7,000 GALLONS/DAY PRODUCTION (GPD) POTABLE BUTYL DIAPH. INPUT FLOW RATE 10 GPM WASTE PIPE | VENT PIPE | COLD WATER | HOT WATER | TEMPERED WATER | WASTE | WATER | WRIST | ELECTRIC REMARKS ASME RATED INPUT PRESSURE 30 - 80 PSI FIXTURE | FIXTURE | BLADE | SENSOR CONNECTION 3/4" NPTF OUTPUT FLOW RATE 5 GPM @ 77°F 0.35 GPM @ 77°F UNITS | UNITS | HANDLES MAX TEMPERATURE IN [mm] IN [mm] IN [mm] IN [mm] IN [mm] MAX TEMP 113°F 150 PSI MAX PRESSURE POWER 12"Ø x 21" TALL P-408 LAVATORY 2 | [50] | 1.5 | [38] | 0.5 | [13] | 0.5 | [13] | N/A | N/A | 1 | 1 | N/A | N/A | PROVIDE MIXING VALVE RATED FOR 0.5 GPM (1.89 LPM) AT 5 PSI (0.345 BAR) VOLTAGE/PH 120V/1 110V/1 NOTES MCA/MOP 14.67/20A 4/10A 3 [75] 1.5 [38] 0.5 [13] 0.5 [13] N/A N/A 6 2 N/A N/A PROVIDE WITH PAIL HOOK AND VACUUM BREAKER NOTES: P-502 MOP SINK DIMENSIONS (WxDxH) 31 x 20 x 55" 12 x 17 x 32" . UNIT COMES WITH INTEGRAL PRESSURE GAUGE 41 LBS 195 LBS P-708 EMERGENCY EYE/ FACE WASH 2 [50] 1.5 [38] N/A N/A N/A N/A 0.5 [50] 2 3 N/A N/A WALL MOUNTED 2. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR APPROVED EQUAL 2,3 MEDIVATOR. PROVIDE THERMOSTATIC MIXING VALVE (WATTS MODEL LFMMV OR Assembly Code MT-1 THERMOSTATIC MIXING VALVE N/A N/A N/A N/A 0.75 [19] 0.75 [19] 0.5 [50] N/A N/A SIMILAR) AT MINIMUM FLOW RAT 3.2 GPM (12 LPM) OF 40 PSI (2.75 BAR) DYNAMIC 1. QTY 4 4"x40" MEMBRANES, 120 TO 160 PSI 2. QTY 1 3012 MEMBRANE FD-C FLOOR DRAIN N/A N/A 3 | [75] | 1.5 | [38] | N/A 3. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR APPROVED EQUAL. CARBON FILTER SCHEDULE 3 [75] 1.5 [38] N/A N/A FD-S FLOOR SINK N/A ECOWATER **Assembly Code** EWS171CSD (DUPLEX) NOTES: WATER SOFTENER SCHEDULE GPM (OPTIMUM / PEAK) 8 GPM / 18 GPM BACKWASH GPM 15 GPM WASHED QUARTZ 100# / 1 FT^3 **ECOWATER** CARBON MEDIA 168# / 4 FT^3 EWS070D CONNECTION SIZE SALT CAPACITY 340 LBS DIMENSIONS 17.6" Ø x 70.25" TALL PRESSURE RANGE 30 - 125 PSI 5 GPM MAX FLOW **EQUIPMENT CONNECTION SCHEDULE (EQUIPMENT BY OTHERS)** VOLTAGE MAKE AND MODEL SHALL BE BASIS OF DESIGN OR DIMENSIONS 12.3" Ø x 55" TALL APPROVED EQUAL. DESCRIPTION WASTE PIPE | VENT PIPE | COLD WATER | HOT WATER | TEMPERED WATER | RO WATER STEAM INSTRUMENT AIR | EXHAUST VENT | REMARKS Assembly Code 1. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR
 IN
 [mm]
 IN
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 SIZE
 LBS/HR
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 APPROVED EQUAL DI RESIN TANK SCHEDULE MEDIVATOR. PROVIDE THERMOSTATIC MIXING VALVE (WATTS MODEL Assembly Code LFMMV OR SIMILAR) AT MINIMUM FLOW RAT 3.2 GPM (12 LPM) OF 40 PSI DIFFUSER SCHEDULE ABA WATER SYSTEMS ADVANTAGE PLUS PASS-THRU (2.75 BAR) DYNAMIC FLOW - NOT TO EXCEED 90 PSI (6.2 BAR) MIN 25 CFM 1.1 AT 80 MODEL | INDIR | [50] | 2 | [38] | 0.5 | [13] | 0.50 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0.5 | [13] | 0. ENDOSCOPE REPROCESSING CAPACITY 35,000 GRAINS PRICE PRICE AMSCO 400 MEDIUM STEAM STERILIZER 2 [50] | 1.5 | [38] | 1 | [25] | - 1 [25] | 150 AVG | -MAX PRESSURE 100 PSI FACE TYPE PLAQUE 45° LOUVER WEIGHT (DRY) 200 LBS MOUNT TYPE SURFACE SURFACE 03 AMSCO 400 SMALL STEAM STERILIZER 2 [50] 1.5 [38] 1 [25] - -DIMENSIONS 14" Ø x 47" TALL COLOR WHITE WHITE - - 0.5 [13] | 158 PEAK NOT USED I. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR 1. PROVIDE SURFACE MOUNT ADAPTER FOR SHEETROCK CEILING 05 STERIS AUTOMATIC PASS-THRU APPROVED EQUAL. 2. MAKE AND MODEL SHALL BE BASIS OF DESIGN OR APPROVED EQUAL. 3 [75] 1.5 [38] N/A 6 N/A N/A N/A Assembly Code Assembly Code 06 WASHER/DISINFECTOR LOAD-UNLOAD CONVEYER 4 | [100] | 2 | [50] | 0.5 | [13] | 0.50 | [15] - - 0.5 [13] 0.5 [13] 80 PSIG 0.125 [3] 1.75 3 [75] NOT USED - 0.125 [3] RACK RETURN _09___ AMSCO 50 REPROCESSING SINK 3 BAY, LEFT TO RIGHT 4 [100] 2 [50] 0.5 [13] 0.50 [13] - - 0.5 [13] 10 INNOWAVE PCF SCONIC IRRIGATOR 20 - 0.75 [19] LUMEN CAPACITY 2 [50] 1.5 [38] 0.75 [19] 0.75 [19] -AMSCO 50 REPROCESSING SINK 4 [100] 2 [50] 0.5 [13] 0.50 [13] 3 BAY, RIGHT TO LEFT - 0.5 [13] ASTRA TEE PROBE - - - 0.5 [13] NOTES: 1. COORDINATE WITH EQUIPMENT VENDOR AND VERIFY EQUIPMENT CONNECTIONS PRIOR TO BEGINNING BID DOCUMENT SUBMISSION Project Number Drawing Title **Project Title CONSULTANT** DESIGNER OF RECORD STAMP Office of 437-CSI-241 MECHANICAL SCHEDULES PERFORM SITE PREP BID DOCUMENTS Construction **Building Number**

WATER HEATER SCHEDULE AO SMITH DSE-65A STORAGE 65 GALLONS

2882 106TH STREET **DES MOINES IA 50322**

ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441

P 763.412.4000 | **F** 763.412.4090 | **ae-mn**.com

Anderson Engineering of Minnesota, LLC | Proj # 17639

hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the Print Name: Signature: Kiby Chamen

and Facilities Management

| U.S. Department

FARGO, ND

FOR SPS EQUIPMENT Drawing Number

VA FORM 08 - 6231

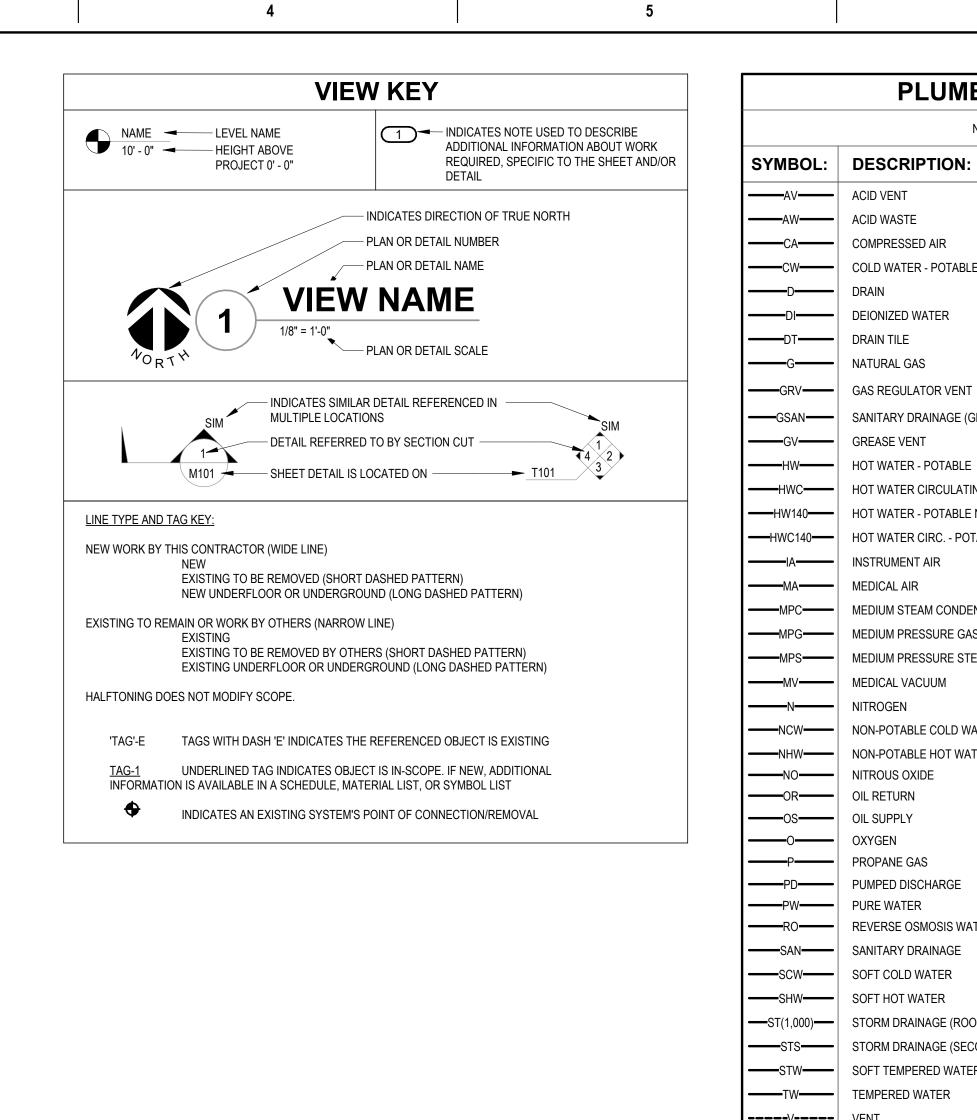
Revisions:

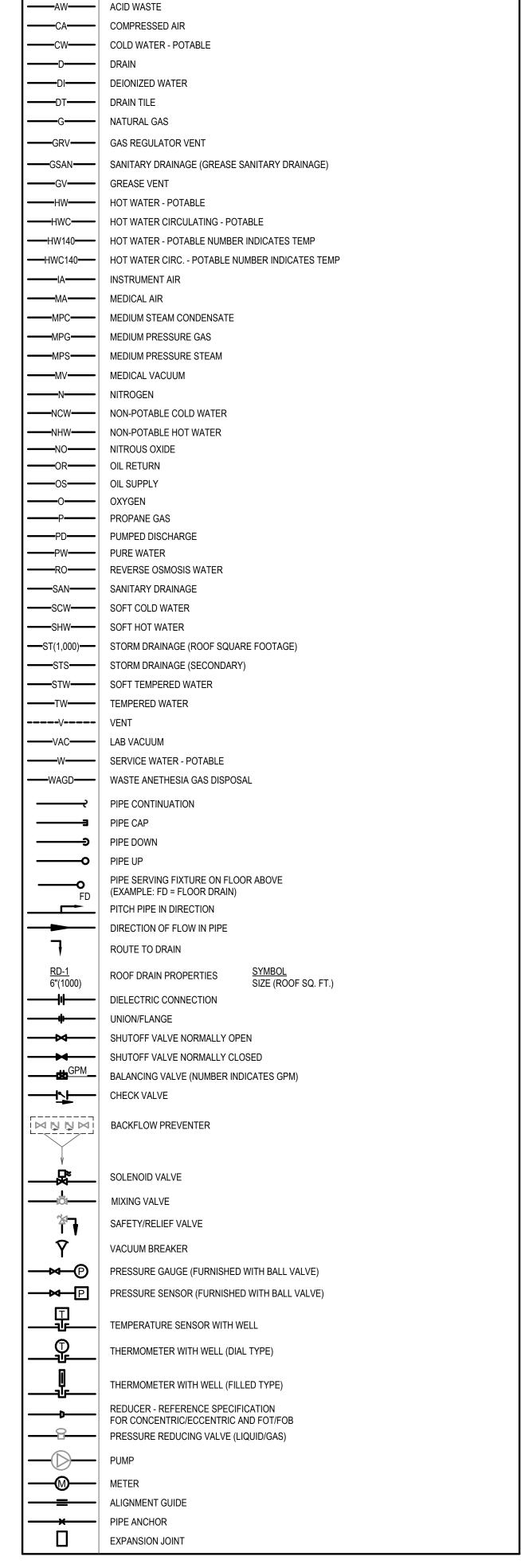
of Veterans
Affairs

FULLY SPRINKLERED

Checked Drawn 01/22/2025 KAH SEF

M-601





PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

ACID VENT

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE

- PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL. 1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING
- BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE
- 2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- 3. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE

REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF

TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE

REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR

PLUMBING ABBREVIATION KEY

ABBR: DESCRIPTION:

ACCESS DOOR

CATCH BASIN

CAST IRON

CLEANOUT

CLINICAL SINK

DIALYSIS BOX

DUCTILE IRON

EXISTING

FCO

SCCR

UON

YCO

DRINKING FOUNTAIN

EMERGENCY EYEWASH

EMERGENCY SHOWER

ELECTRIC WATER COOLER

FLOOR CLEANOUT

FLOOR DRAIN

FLOW METER

FLOOR SINK

HOSE BIBB

MOP BASIN

MANHOLE

MIXING VALVE

NOT IN CONTRACT

OIL SEPARATOR ROOF DRAIN

SERVICE SINK

TRAP PRIMER

TYPICAL URINAL

TRENCH DRAIN

VENT THROUGH ROOF

WATER CLOSET

WALL CLEANOUT

WASH FOUNTAIN

WATER HEATER

WASTE PIPING

WATER METER

UTILITY BOX

WATER SOFTENER

YARD CLEANOUT

WASHING MACHINE FIXTURE

UNLESS OTHERWISE NOTES

NEUTRALIZATION TANK

SHORT CIRCUIT CURRENT RATING

GARBAGE DISPOSER GREASE INTERCEPTOR

EMERGENCY SHOWER/EYEWASH

INVERT ELEVATION (FOR REFERENCE ONLY)

ABOVE FINISHED FLOOR

BACKFLOW PREVENTER

NOT ALL SYMBOLS MAY APPLY.

- AFFECTED AREAS PRIOR TO BIDDING. 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING
- GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING. 6. WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT. PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING
- CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.

8. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN

- SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED. 9. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW
- SYSTEMS WITH MINIMUM OUTAGE. 10. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

PLUMBING GENERAL NOTES:

- 1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS,
- WHETHER SPECIFIED OR NOT. 2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE
- 3. CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.

BASIS OF DESIGN.

- 4. ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874
- 5. INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK. 6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- 7. REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES. 8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING
- SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES. 9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO
- BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION. 10. P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

MECHANICAL GENERAL NOTES:

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

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR

COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING

- CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT. 2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS,
- INCLUDING THOSE OF OTHER TRADES. 3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH
- OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE
- PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS. 4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE
- ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. 5. 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. 6. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED
- FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN. 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- 8. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH
- ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH. 9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH
- ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING. 10. SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH
- WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE. 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 TRANSMISSION FROM ONE ROOM TO ANOTHER
- AND TO PROVIDE THE DESIRED NOT EVELS WITHIN ROOMS 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 RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT. 13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS.
- CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC. 14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- 15. MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- 16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6. "
- BEYOND ALL SIDES OF EQUIPMENT. 17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL
- BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

P-001	PLUMBING SYMBOLS, ABBREVIATIONS, GENERAL NOTES
P-002	PLUMBING RO PHASING PLAN
PD-101	PLUMBING UNDERGROUND - SANITARY DEMOLITION PLAN
PD-102	PLUMBING LOWER LEVEL - RO AND DOMESTIC WATER DEMO PLANS
PD-103	PLUMBING LOWER LEVEL - VENT AND AIR DEMO PLAN
PL-101	PLUMBING LOWER LEVEL - UNDERGROUND SANITARY PLAN
PL-102	PLUMBING LOWER LEVEL - DOMESTIC WATER PLANS
PL-103	PLUMBING LOWER LEVEL - VENT AND AIR PLAN
PP-101	PLUMBING PLANS - PROCESS PIPING - LOWER LEVEL RO - SPS
PP-102	PLUMBING PLAN - PROCESS PIPING - LOWER LEVEL RO CORRIDOR
PP-103	PLUMBING PLAN - PROCESS PIPING - LOWER LEVEL RO TEMPORARY TRAILE
P-301	PLUMBING RO FLOW DIAGRAM
P-501	PLUMBING DETAILS
P-702	DOMESTIC WATER RISER DIAGRAMS
P-701	SANITARY WASTE AND VENT RISER DIAGRAMS

BID DOCUMENT SUBMISSION

CONSULTANT 2882 106TH STREET **DES MOINES IA 50322** Date: Revisions:

VA FORM 08 - 6231

DESIGNER OF RECORD ANDERSON 13605 1st Ave. N. #100 Plymouth, MN 55441 **P** 763.412.4000 | **F** 763.412.4090 | **ae-mn**.com

Anderson Engineering of Minnesota, LLC | Proj # 17639

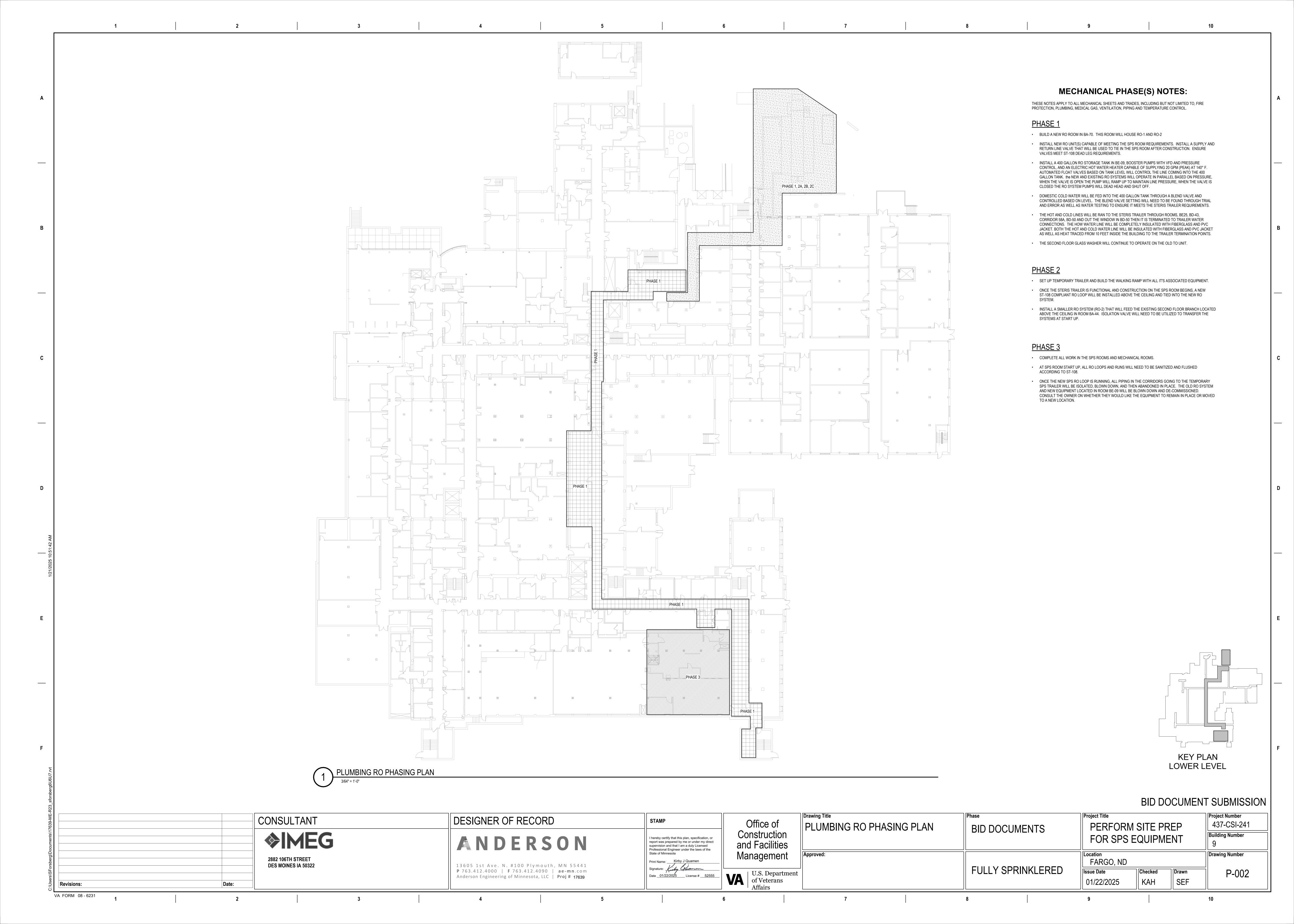
STAMP hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the Print Name: ___ Signature: Kiby Chamen Date 01/22/2025 License # 52555

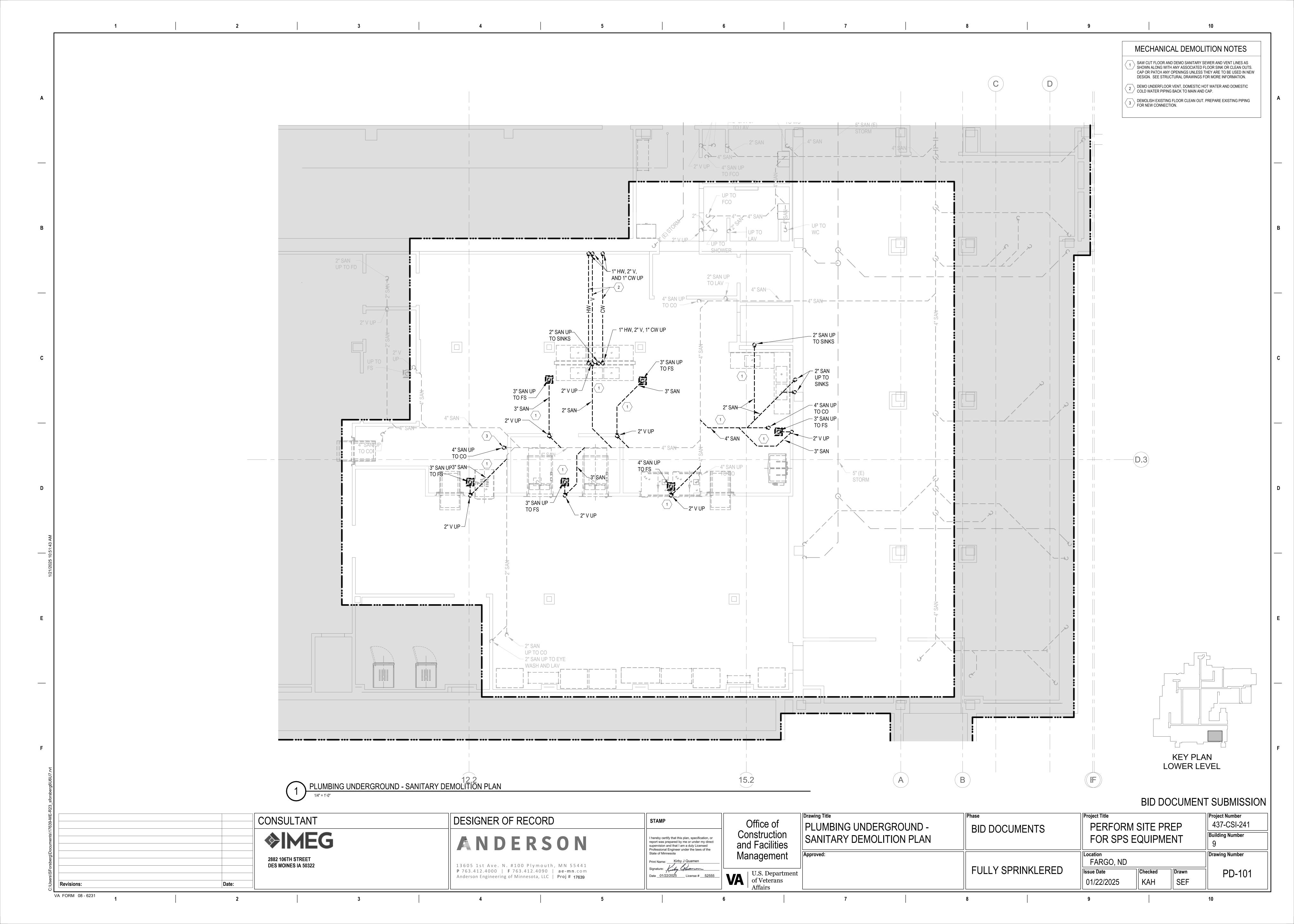
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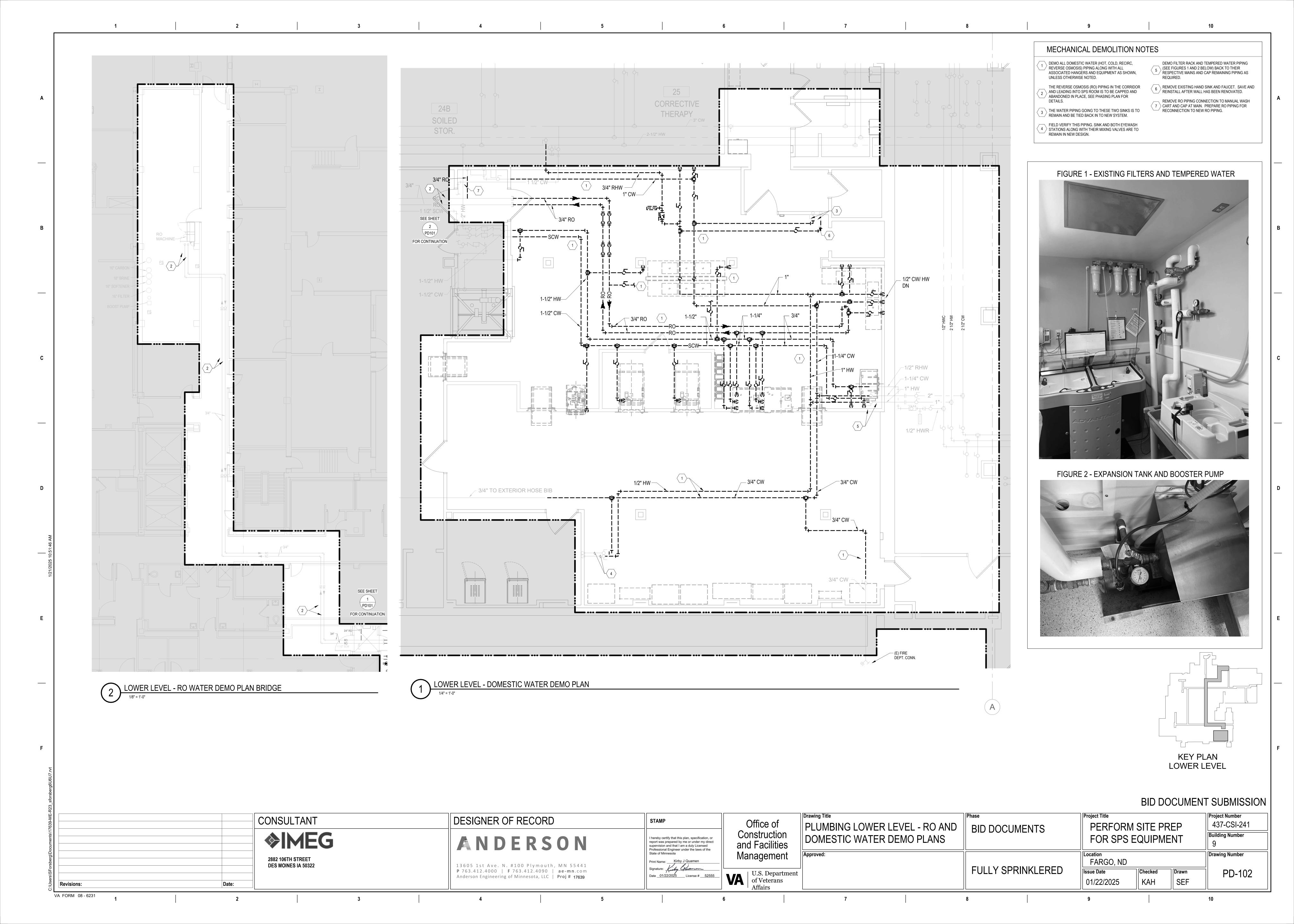
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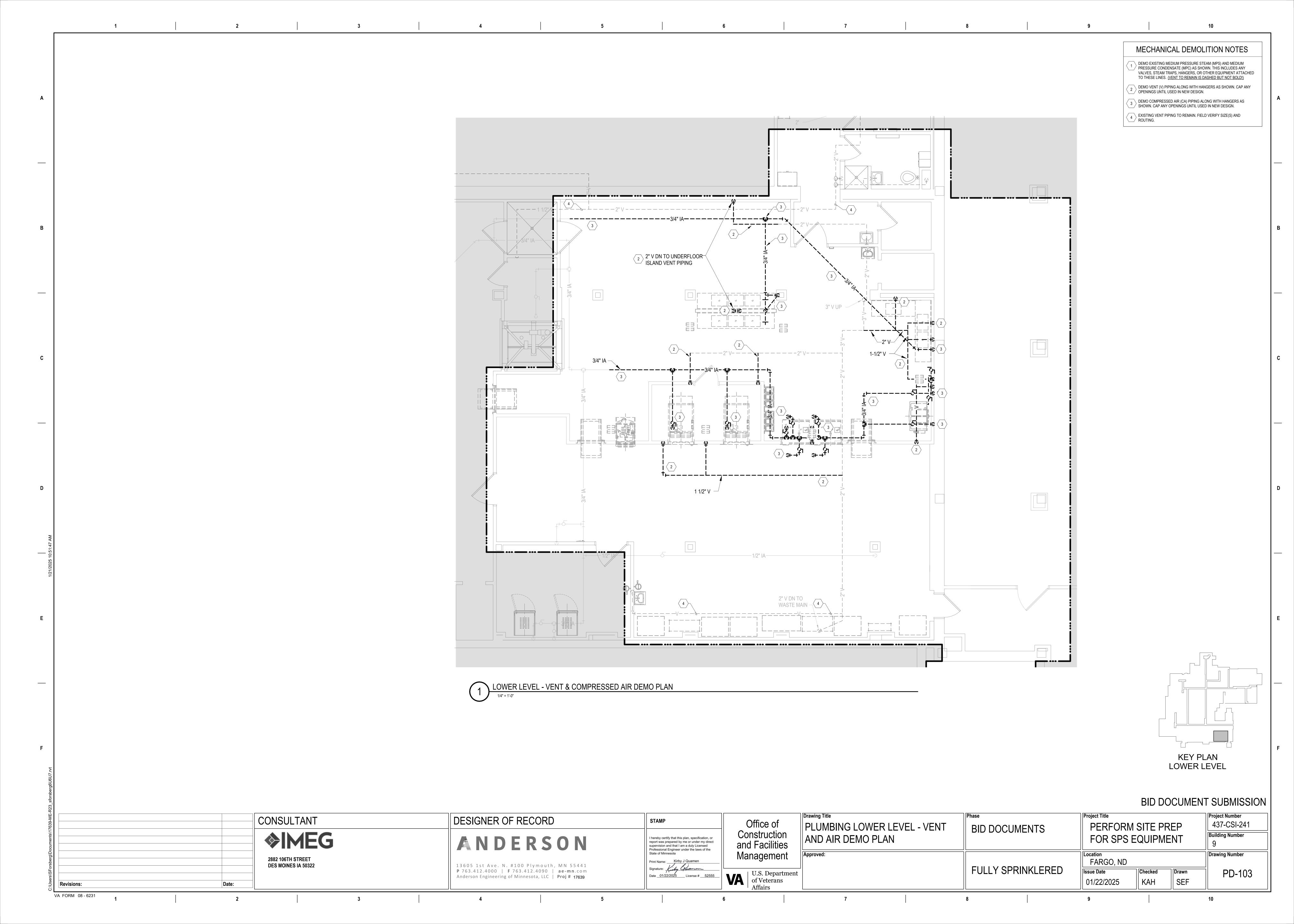
of Veterans
Affairs

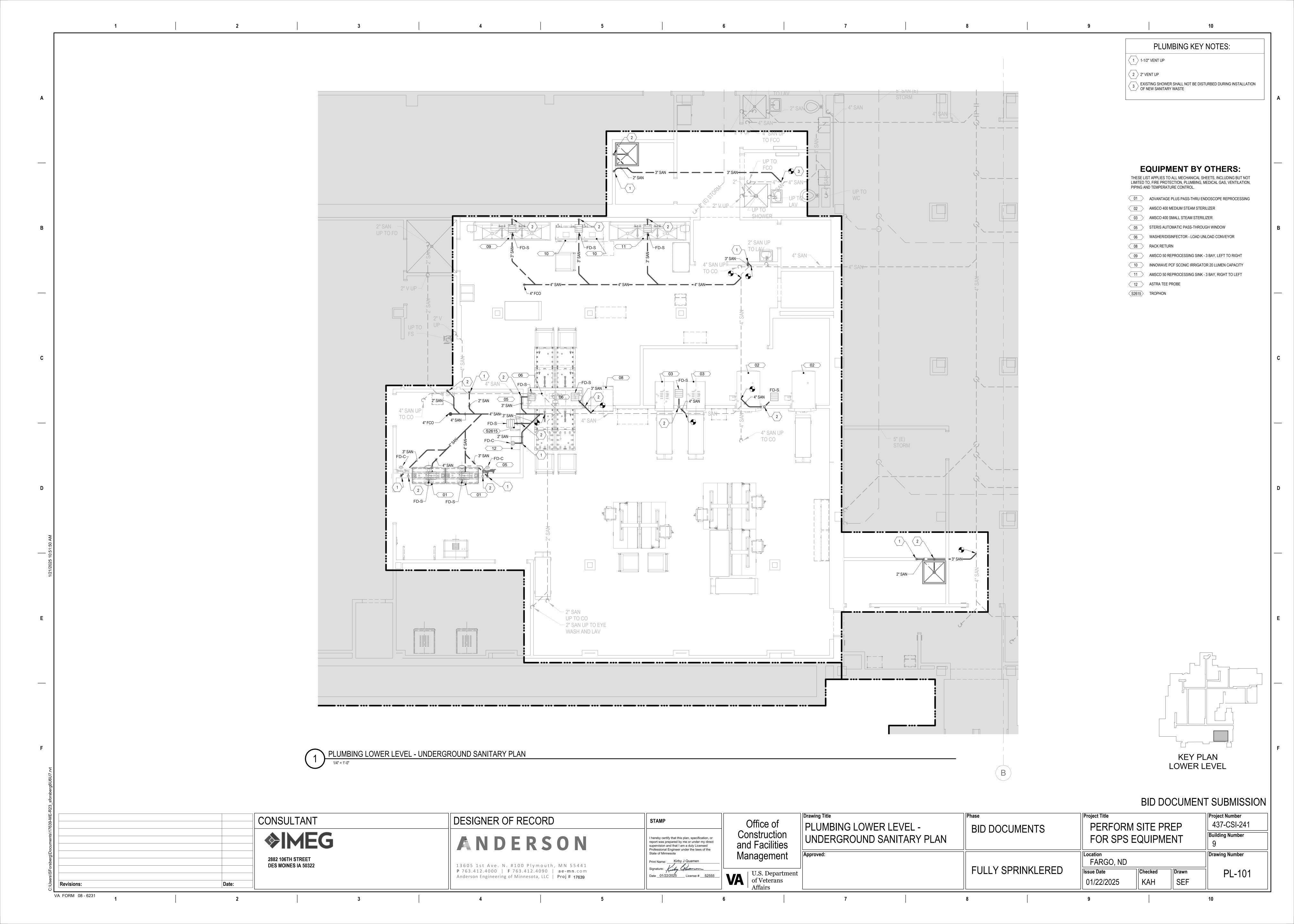
Drawing Title **Project Title Project Number** 437-CSI-241 PLUMBING SYMBOLS, PERFORM SITE PREP **BID DOCUMENTS Building Number** ABBREVIATIONS, GENERAL NOTES FOR SPS EQUIPMENT Drawing Number FARGO, ND **FULLY SPRINKLERED** Checked Drawn P-001 KAH SEF 01/22/2025

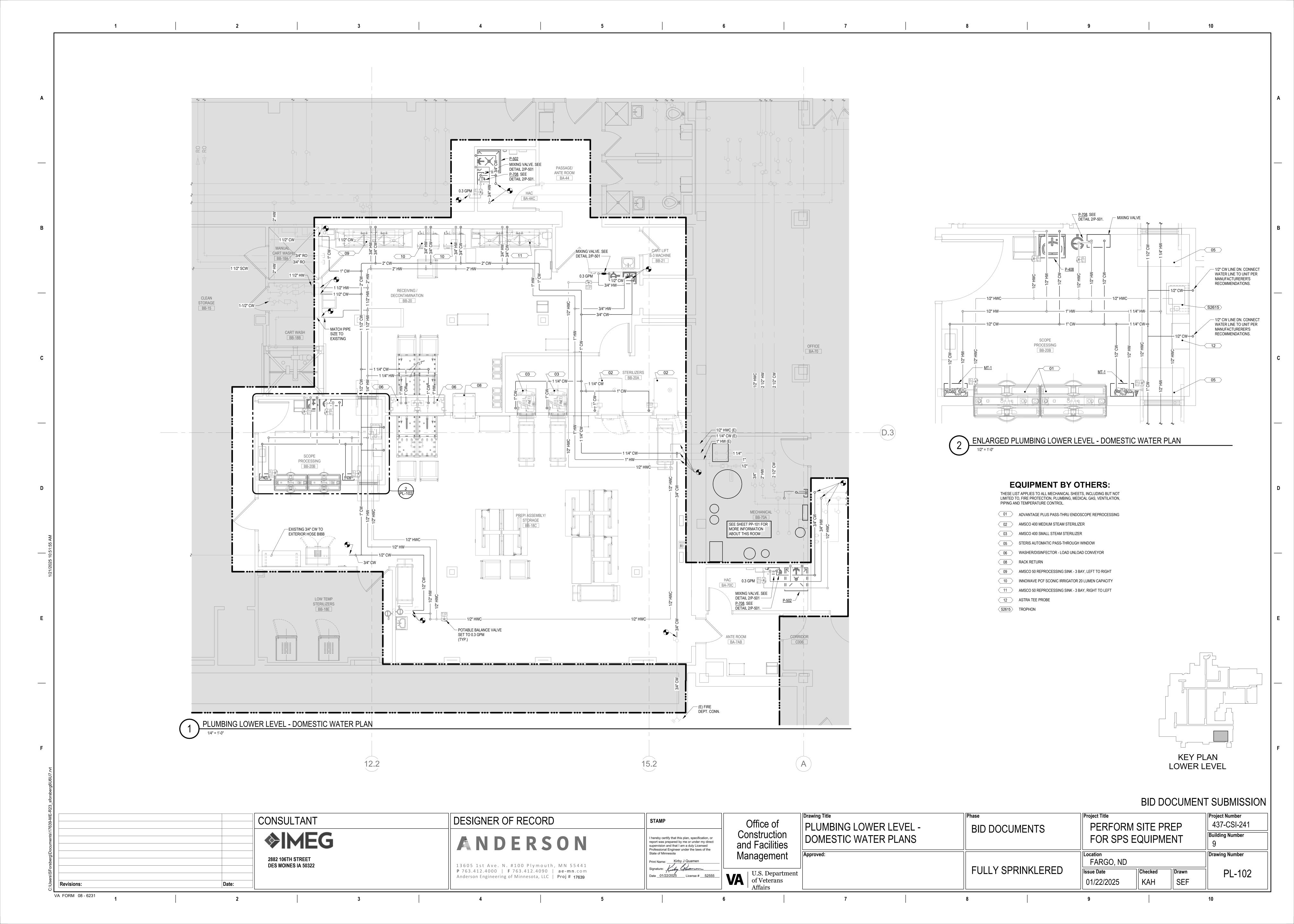


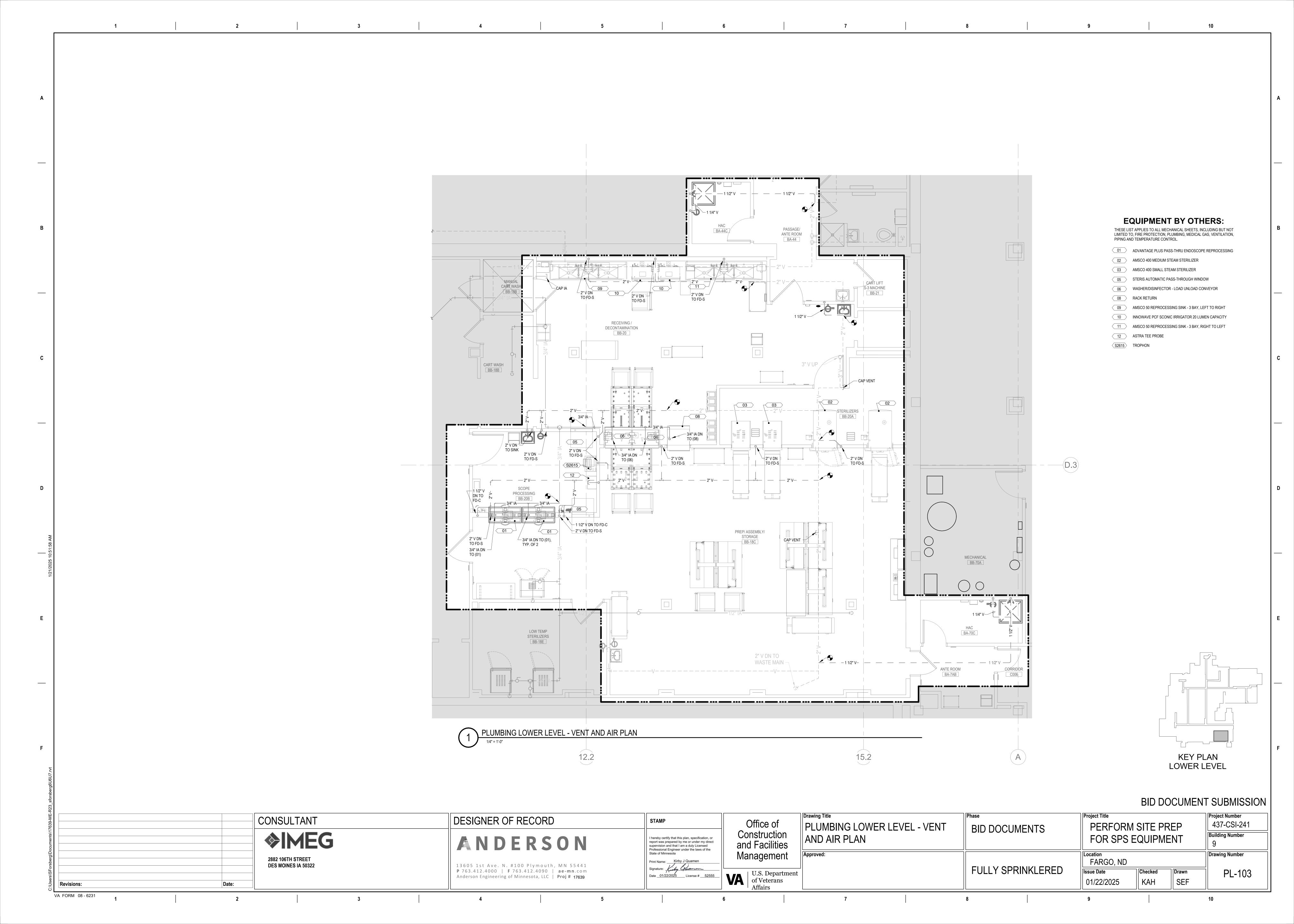


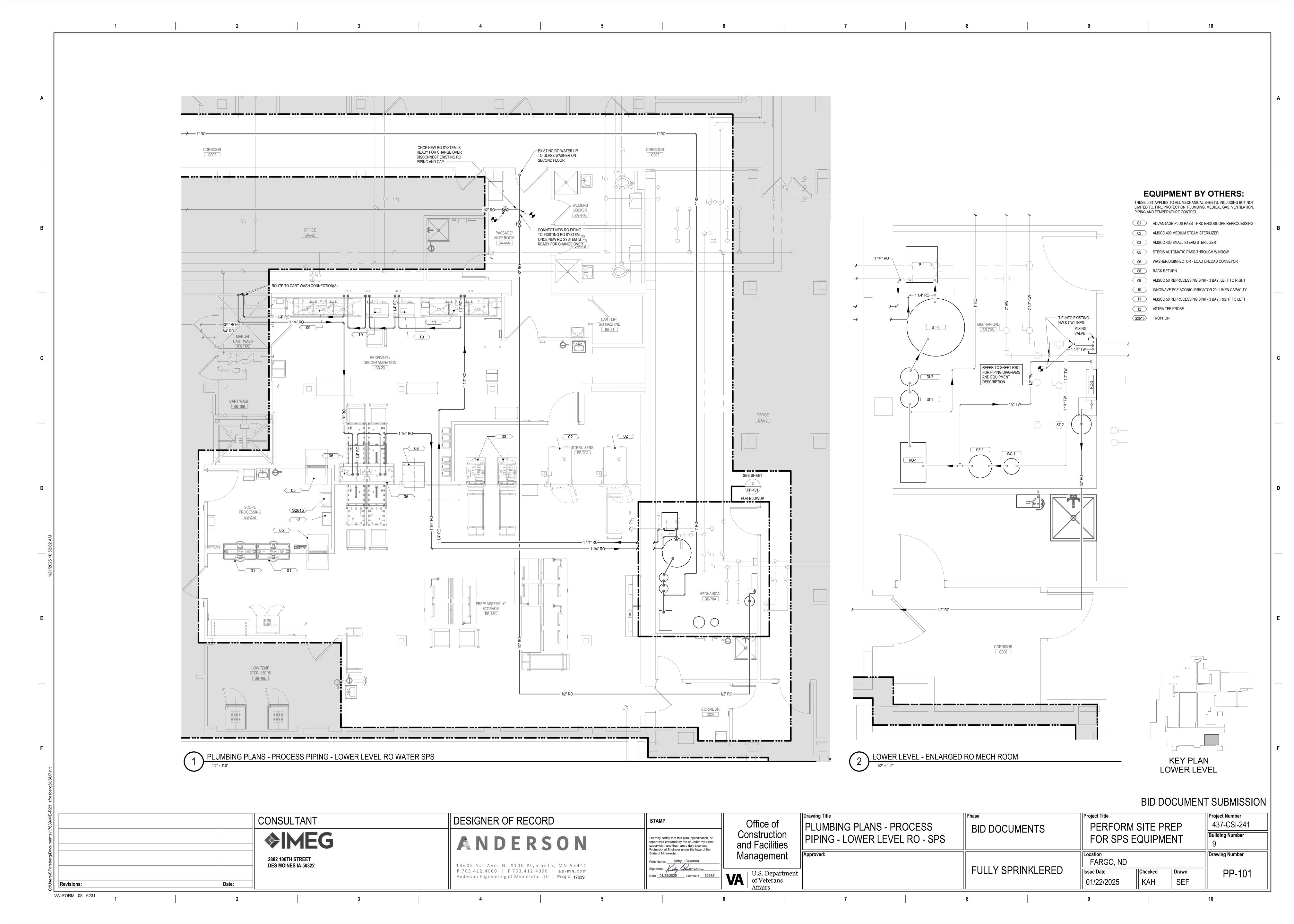


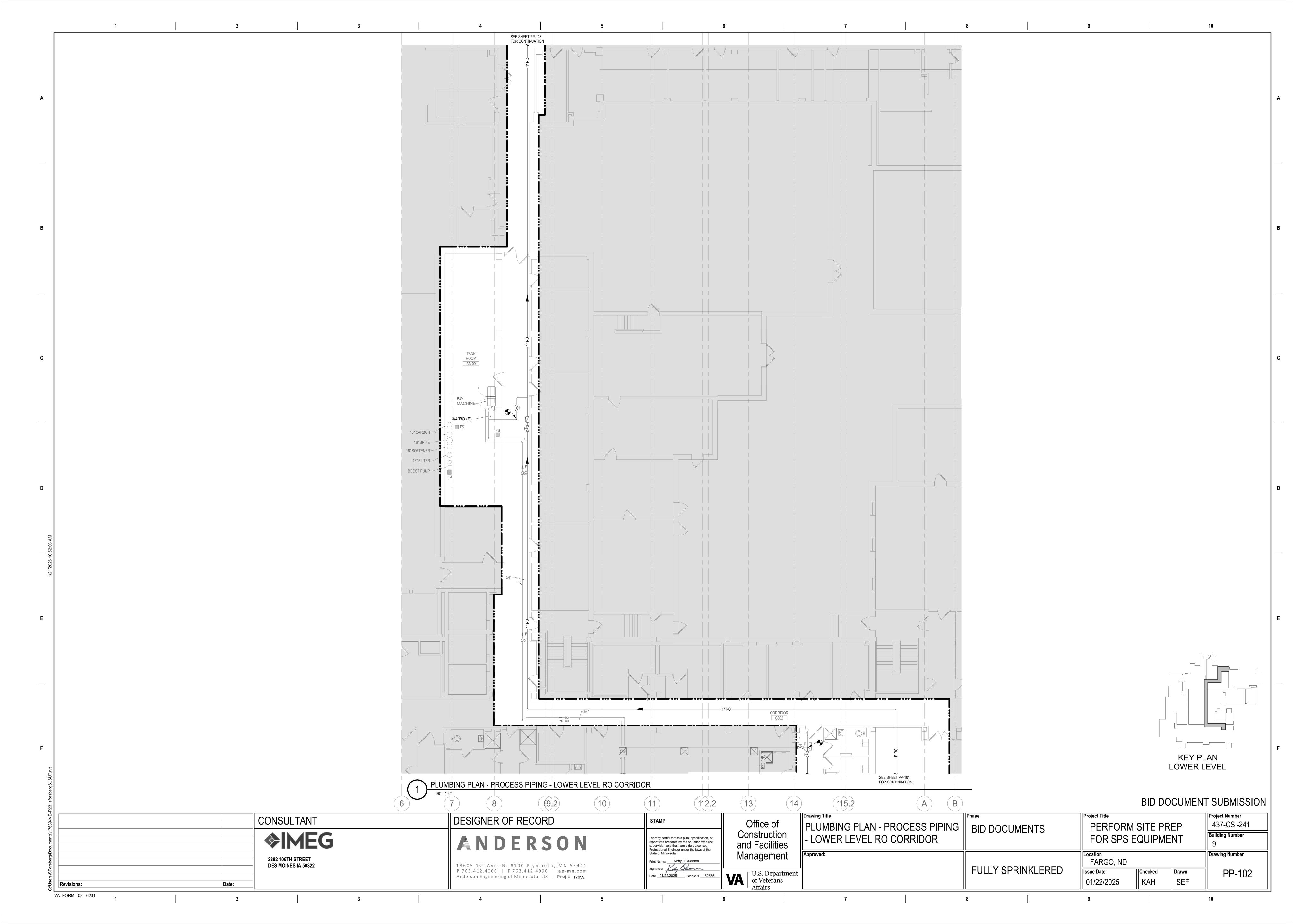


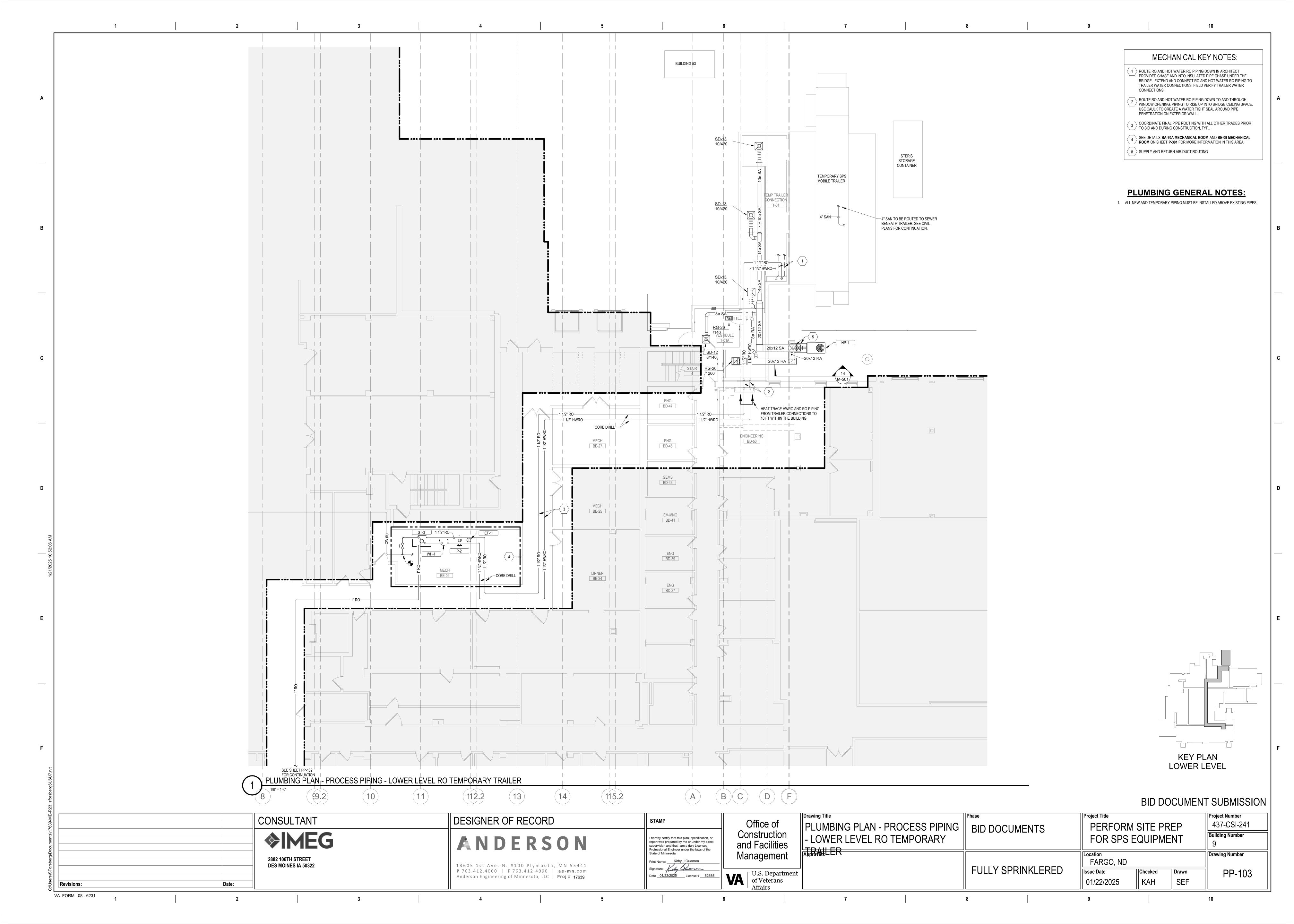


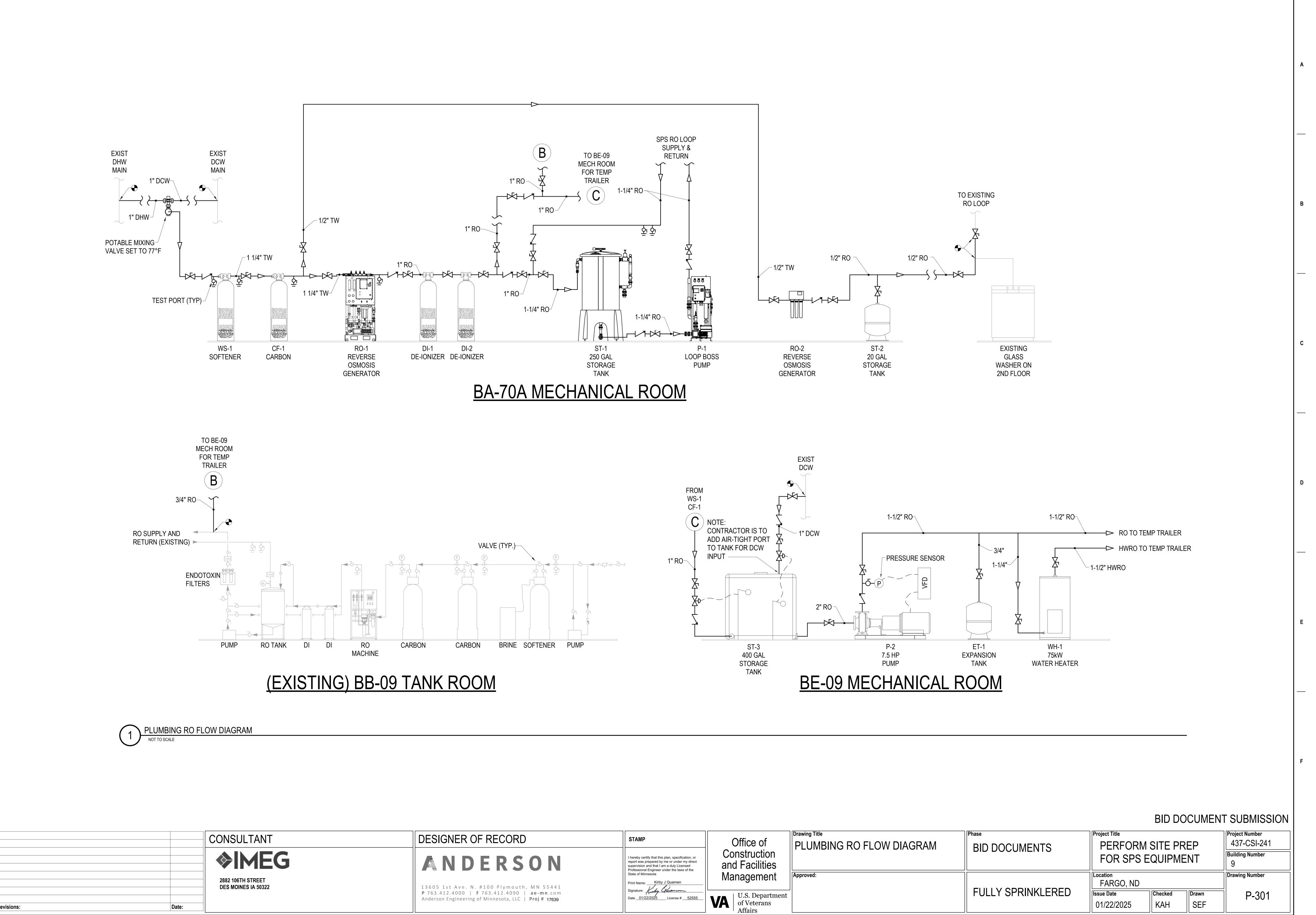












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