PROJECT NAME:

# PERFORM SITE PREP FOR SPS EQUIPMENT

SITE ADDRESS:

# 2101 ELM STREET NORTH; FARGO, ND 58102

VA PROJECT NUMBER: 437-CSI-241

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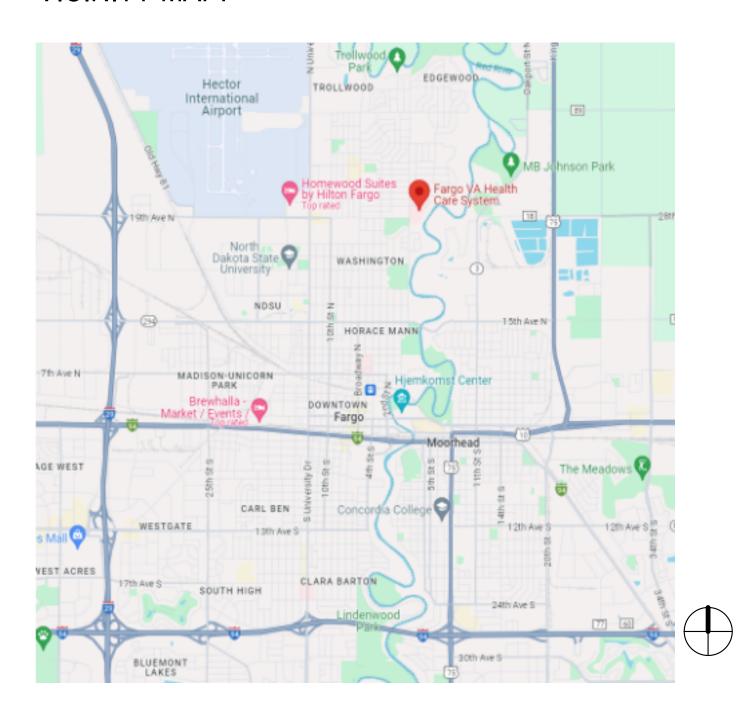
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TECHNOLOGY DESIGNER

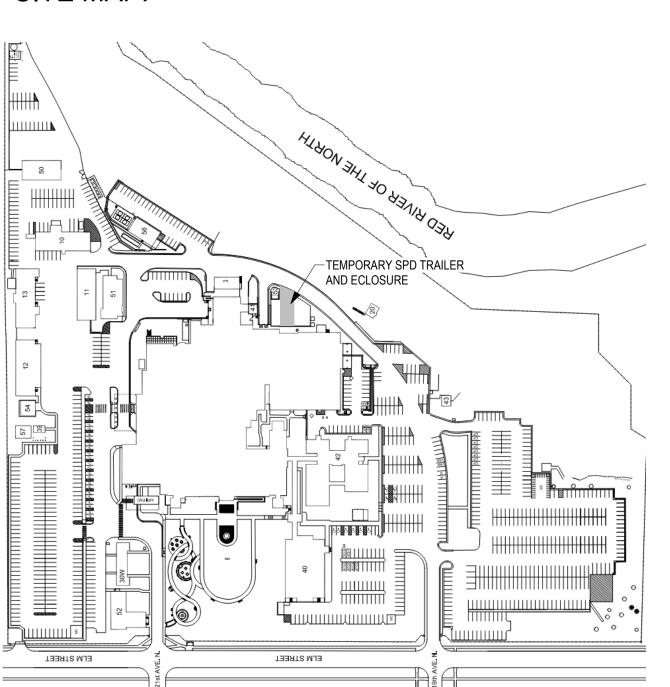
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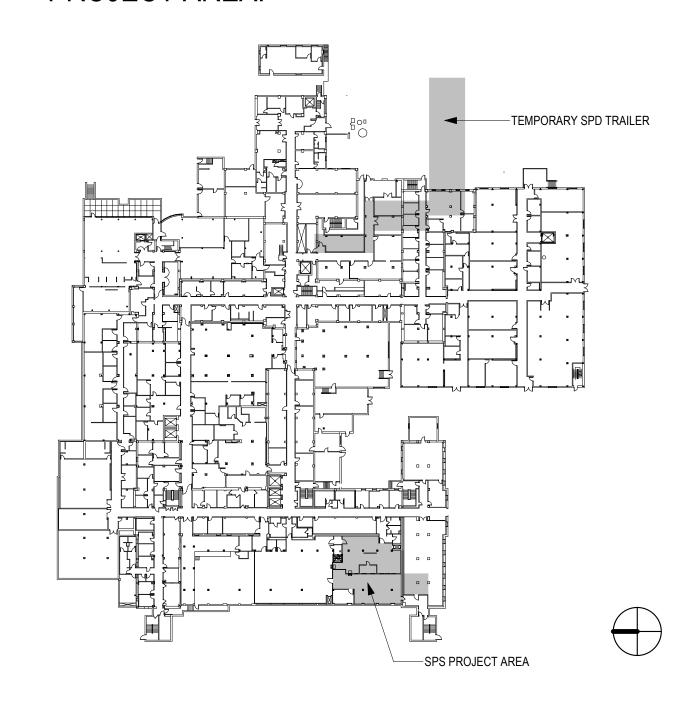
VICINITY MAP:



SITE MAP:

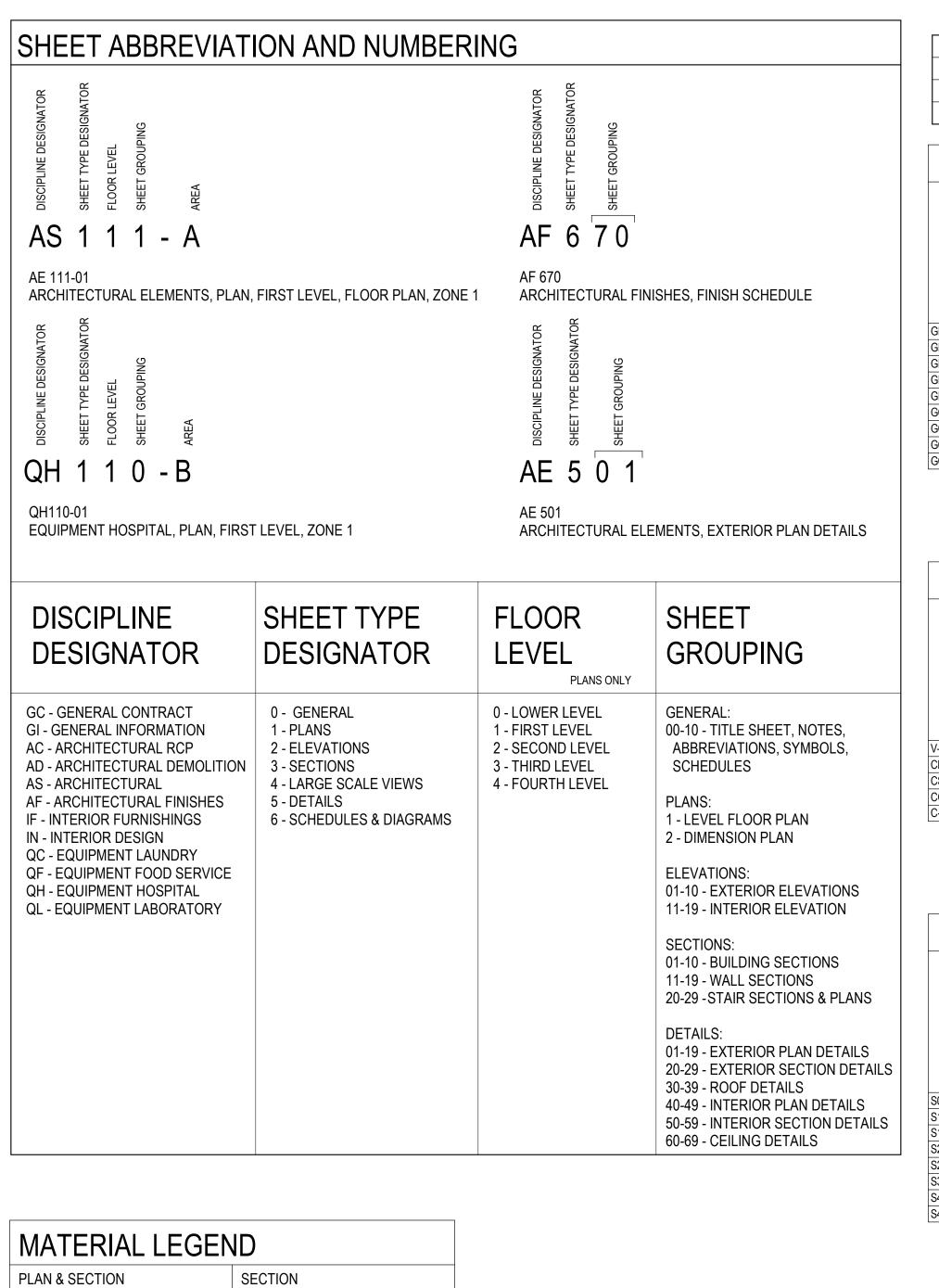


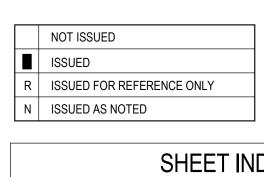
PROJECT AREA:



BID DOCUMENT SUBMISSION

Drawing Title CONSULTANT DESIGNER OF RECORD STAMP Office of 437-CSI-241 PERFORM SITE PREP FOR SPS COVER SHEET **BID DOCUMENTS** Construction and Facilities **EQUIPMENT Building Number ♦IMEG** ANDERSON OLESAK 2908 Drawing Number Management 2882 106TH STREET DES MOINES IA 50322 FARGO, ND FULLY SPRINKLERED Checked Drawn 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 | F 763.412.4090 | ae-mn.com VA U.S. Department of Veterans Affairs GI000 1/22/2025 GJB JLU Anderson Engineering of Minnesota, LLC | Proj # 17639 Revisions: VA FORM 08 - 6231





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00	TECHNOLOGY ENLARGEMENT PLANS	
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Revisions:

VA FORM 08 - 6231

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EXISTING

CONCRETE

BATT INSULATION

GYPSUM BOARD

RIGID INSULATION

SPRAY FOAM

FIRE PROOFING

PLYWOOD

NEW CONSTRUCTION

ELEVATION

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

EARTH

METAL

GRAVEL / FILL

MORTAR NET

CONCRETE

WOOD - HORIZONTAL

WOOD - VERTICAL

STONE

SOLID SURFACE

CONSULTANT DESIGNER OF RECORD **♦IMEG** ANDERSON 2882 106TH STREET DES MOINES IA 50322 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 OLESAK 2908

Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs

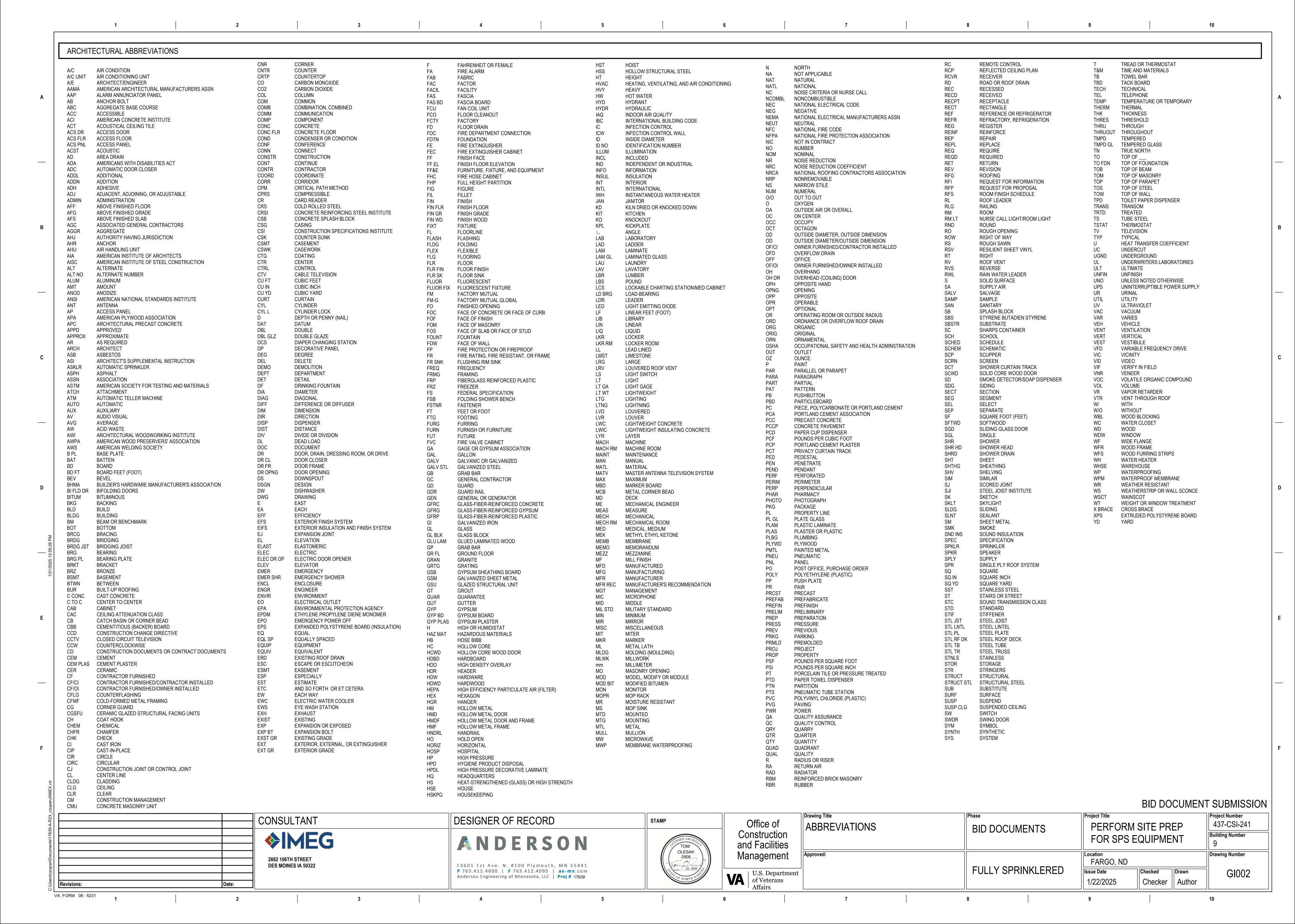
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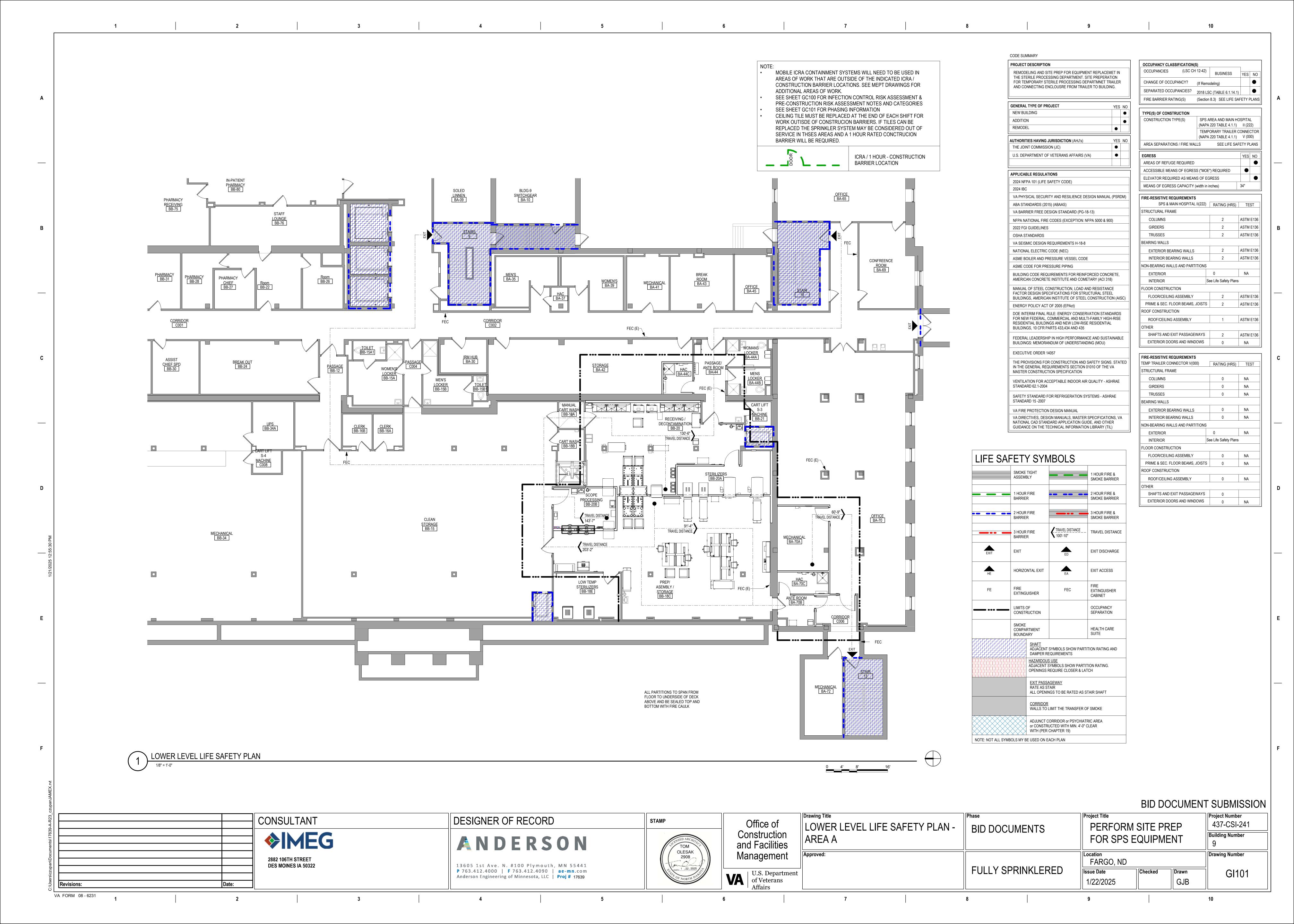
SHEET INDEX **BID DOCUMENTS** FULLY SPRINKLERED

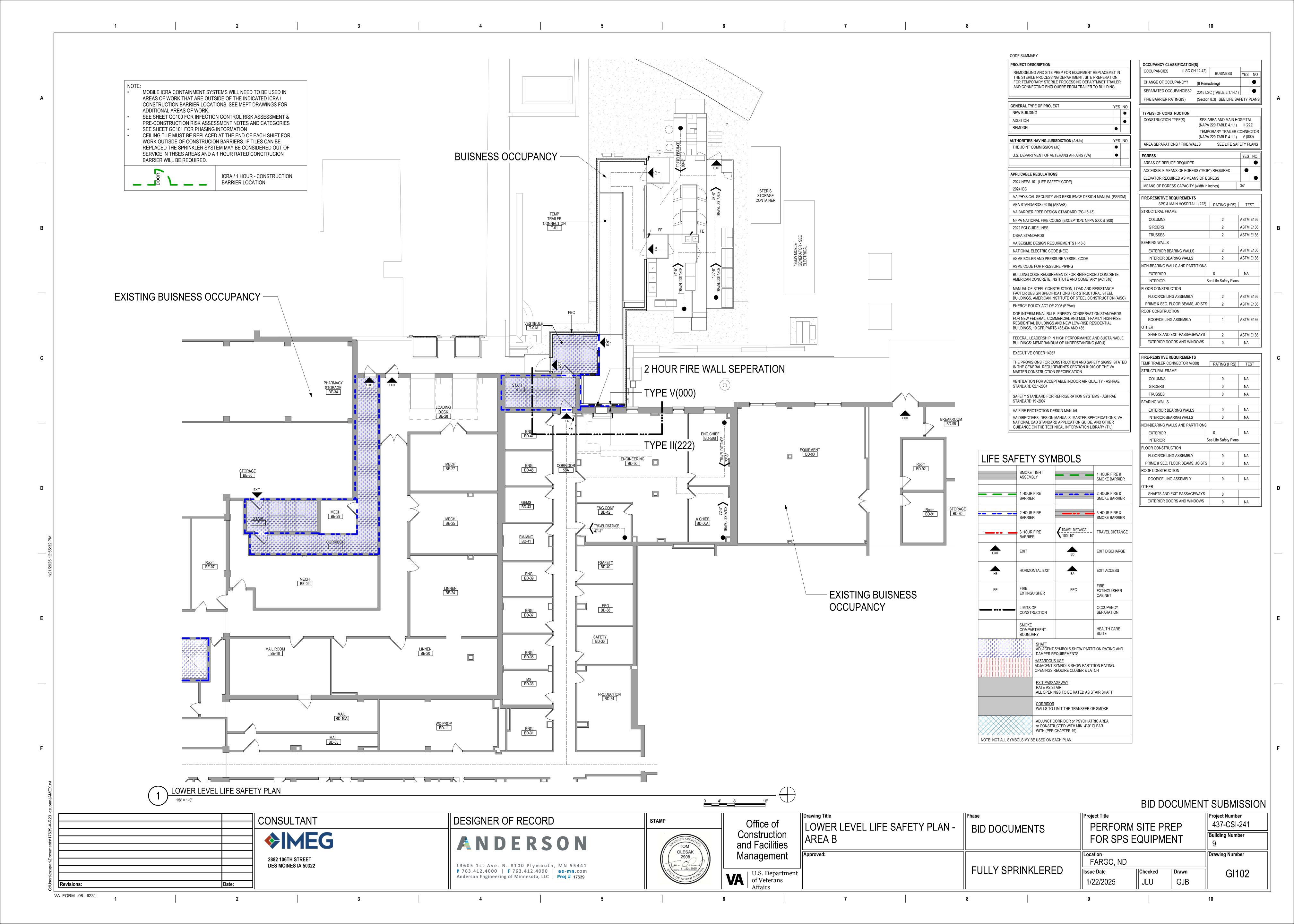
Project Number Project Title 437-CSI-241 PERFORM SITE PREP **Building Number** FOR SPS EQUIPMENT Drawing Number FARGO, ND

Issue Date

Checked Drawn GI001 1/22/2025 || JLU GJB









### PRE-CONSTRUCTION RISK ASSESSMENT (PCRA) BY PROJECT AREA USE AND PHASE PHASE 1: RO WATER SYSTEM SEE ICRA RISK ASSESSMEN PHASE 2A: SITE PREP CONSTRUCTION ACTIVITY TYPE - LARGE-SCALE CONSTRUCTION ACTIVITY TYPE - LARGE-SCALE PHASE 2C : TRAILER CONNECTING ENCLOSURE CONSTRUCTION ACTIVITY TYPE - LARGE-SCALE PHASE 3: SPS CONSTRUCTION SEE ICRA RISK ASSESSMENT

PHASE 4: SITE REMEDIATION - TRAILER REMOVAL CONSTRUCTION ACTIVITY TYPE - LARGE-SCALE

					SESSMENT (ICRA)	_	
CONSTRUCTIO	ON, RENOVATION A	ND / OR MAINT	ENANCE ACTIVIT	Y CATEGORY			FECTION PREVENTION AND CONTROL MEASURES, BY LEVEL OF PRECAUTIONS
CATEGORY  WORK CAN BE COMP PATIENTS AND/OR EN		DRK CAN BE COMPLETED IN A SINGLE SHIFT, NOT TO EXCEED 10 HOURS. TIENTS AND/OR EMPLOYEES MAY BE IN THE AREA DEPENDING ON THE ACTIVITY.		LEVEL OF PRECAUTION			
	<ul> <li>REMOVAL OF CEILING WITH LIMITED EXPOS</li> <li>MINOR INTERIOR UPD</li> </ul>	WORK THAT DOES NOT CREATE DUST OR DEBRIS. REMOVAL OF CEILING TILE OR ACCESS TO MECHANICAL OR ELECTRICAL CHASE FOR VISUAL INSPECTION LIMITED TO 1 TILE PER 50 SQUARE FEET WITH LIMITED EXPOSURE TIME (NOT TO EXCEED AN HOUR FOR EACH TILE) WITHIN THE SHIFT. MINOR INTERIOR UPDATES (E.G., REPLACING FLOOR OR CEILING TILES, CARPENTRY WORK TO INCLUDE HANGING SIGNAGE, AND PAINTING		LEVEL I	1. PERFORM WORK ACTIVITY IN A MANNER THAT DOES NOT CREATE DUST. 2. IMMEDIATELY REPLACE ANY CEILING TILE, CLOSE ACCESS PANELS, ETC., UPON COMPLETION OF WORK. 3. ANY MATERIALS AND EQUIPMENT BEING BROUGHT INTO THE FACILITY MUST BE FREE OF CONTAMINANTS AND LOOSE MATERIAL.		
		STEM MAINTENANC		ON POTABLE SYSTEMS LIMITED TO FAUCE SWITCHES	T REPLACEMENT ETC. AND ELECTRICAL	LEVEL II	ALL CONTROL MEASURES IN LEVEL I AND THE FOLLOWING:  1. PROVIDE ACTIVE MEANS TO CONTROL AIRBORNE DUST FROM DISPERSING INTO OCCUPIED AREAS AND/OR WATER MIST SURFACE TO CONTROL DUST (E.G., MOBILE DUST CONTAINMENT CART OR SOME OTHER SYSTEM).  2. ENSURE WORKER CLOTHING IS CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA.
CATEGORY B  GENERAL MAINTENANCE AND REPAIR WORK GENERALLY DEFINED AS FOLLOWS:  PROLONGED INSPECTION AND WORK THAT MAY TAKE LONGER THAN A SINGLE SHIFT BUT NOT EXCEEDING A WEEK.  PATIENTS AND EMPLOYEES ARE NOT TO BE IN THE AREA UNTIL ACTIVITY IS COMPLETED.  WORK THAT CREATES MINIMAL DUST AND DEBRIS.  INTERIOR FINISH OR SURFACE REPAIRS, UPDATES, OR MODIFICATIONS SUCH AS REPAIR OF FIREWALL'S AND BARRIERS, AND NEW FLOORING THAT PRODUCES MINIMAL DUST AND DEBRIS.  PLUMBING WORK SUCH AS INSTALLATION OR REPLACEMENT OF A SINGLE FIXTURE OR PIPING FOR A SINGLE FIXTURE. ANY WORK ON SANITARY PLUMBING INCLUDING SNAKING OF DRAINS.  ELECTRICAL WORK SUCH AS INSTALLATION OF CABLING/WIRING/CONDUIT FOR A SINGLE DEVICE, INSTALLATION OF NEW DEVICE SUCH AS A LIGHT FIXTURE THAT PRODUCES MINIMAL DUST AND DEBRIS.  AIR HANDLER AND/OR FAN SHUTDOWN/STARTUP AND HVAC WORK SUCH AS REPLACEMENT OF A SINGLE DIFFUSER, SINGLE TERMINAL UNIT OR A SINGLE DEVICE THAT PRODUCES MINIMAL DUST AND DEBRIS.			AND BARRIERS, AND NEW FLOORING THAT THAT PRODUCE MINIMAL DUST AND GLE FIXTURE. ANY WORK ON SANITARY LATION OF NEW DEVICE SUCH AS A LIGHT		<ol> <li>REMOVE OR ISOLATE AIR DIFFUSERS (SUPPLY AND RETURN) TO PROTECT THE HVAC SYSTEM FROM DUST AND REDUCE AIR TURBULENCE. REBALANCE SYSTEM TO ADDRESS DIFFUSER ISOLATION.</li> <li>WHEN THE WORK INVOLVES/EFFECTS POTABLE WATER SYSTEMS INCLUDING STAGNATION DUE TO REDUCED USAGE, PIPING MUST BE FLUSHED TWICE A WEEK OR ISOLATED FROM MAIN SYSTEM.</li> <li>SEAL DOORS TO PREVENT DUST MIGRATION.</li> <li>CONTAIN ALL TRASH AND DEBRIS IN THE WORK AREA. PERFORM DAILY CLEANING AND DISPOSAL OF TRASH (COVERED) FROM WORK AREA USIN AN IDENTIFIED EXIT ROUTE.</li> <li>ANY EQUIPMENT, TOOLS, OR MATERIALS REMOVED FROM THE WORK AREA MUST BE IN SEALED CONTAINERS AND/OR CLEANED OF DUST AND DEBRIS PRIOR TO REMOVAL FROM THE AREA.</li> <li>NONPOROUS/SMOOTH &amp; CLEANABLE CONTAINERS (W/ A HARD LID) MUST BE USED TO TRANSPORT TRASH AND DEBRIS FROM THE CONSTRUCTI AREAS. THESE CONTAINERS MUST BE DAMP-WIPED CLEANED &amp; FREE OF VISIBLE DUST/DEBRIS BEFORE LEAVING THE CONTAINED WORK AREA.</li> <li>INSTALL A STICKY (DUST COLLECTION) MAT AT ENTRANCE OF CONTAINED WORK AREA BASED ON FACILITY POLICY. STICKY MATS MUST BE CHANGED ROUTINELY AND WHEN VISIBLY SOILED.</li> <li>MAINTAIN CLEAN SURROUNDINGS WHEN AREA IS NOT CONTAINED BY DAMP MOPPING OR HEPA VACUUMING SURFACES AT LEAST DAILY.</li> </ol>		
CATEGORY C	<ul><li>WORK REQUIRING LC</li><li>PATIENTS AND EMPLO</li></ul>	NGER THAN A SING OYEES ARE NOT TO	GLE WEEK TO COMPLET DIE IN THE AREA UNTI				11. ENSURE NO UNAUTHORIZED ACCESS, BY MEANS OF LOCK OR CONTINUOUS, DIRECT SUPERVISION FOR SITE ENTRY, UNTIL PROJECT COMPLETION.  ALL CONTROL MEASURES IN LEVELS I AND II AND THE FOLLOWING:
PATIENTS AND EMPLOYEES ARE NOT TO BE IN THE AREA UN     DEMOLITION/REMOVAL OF PREEXISTING FLOOR COVERING,     DEMOLITION/REMOVAL OF MORE THAN 32 FT2 OF DRYWALL/     AS ELECTRICAL CIRCUITS AND BRANCH PIPING.     INSTALLATION OF NEW WALLS, CEILINGS AND DOORS INCLUI     PLUMBING WORK SUCH AS THE INSTALLATION OF NEW SINK.     SHUT DOWN OF SECTIONS OF POTABLE WATER SYSTEMS.     ELECTRICAL WORK SUCH AS INSTALLATION OF CONDUIT AND OF CONDUIT AND WIRE FOR NEW DEVICES SUCH AS TERMIN     MODIFICATION OF EXISTING FIRE ALARM AND SUPPRESSION     MECHANICAL WORK SUCH AS THE INSTALLATION OF DUCTW  LARGE-SCALE CONSTRUCTION, RENOVATION, OR MAINTENAN     WORK EXCEEDING 6 MONTHS IN DURATION.		32 FT2 OF DRYWALL/FR PIPING. S AND DOORS INCLUDII ATION OF NEW SINKS, WATER SYSTEMS. ION OF CONDUIT AND N ES SUCH AS TERMINAL M AND SUPPRESSION S ALLATION OF DUCTWOR	RAMING, HARD CEILINGS, AND DOORS/FRAM NG FRAMING, DRYWALL/PLASTER AND ASSO SHOWERS AND TOILETS AND ASSOCIATED WIRE FOR LIGHTING, RECEPTACLES AND SV L UNITS, FANS ETC. SYSTEMS. RK, DIFFUSERS, AND TERMINAL UNITS FOR A	IING AND MINIMAL INFRASTRUCTURE SUCH DCIATED WORK. PLUMBING. WITCHES FOR AN AREA, THE INSTALLATION	LEVEL III	<ol> <li>ENSURE AVAILABILITY OF EQUIPMENT FOR CLEANING HANDS.</li> <li>CONSTRUCT AND COMPLETE CRITICAL BARRIERS MEETING NFPA 241 REQUIREMENTS. BARRIERS MUST EXTEND TO THE CEILING OR IF CEILING TILE IS REMOVED, TO THE DECK ABOVE.</li> <li>ALL BARRIER CONSTRUCTION ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE.</li> <li>BARRIERS MUST BE HARD BARRIERS UNLESS TEMPORARY TO INSTALL FINAL BARRIER. BARRIER WALLS MUST BE INSPECTED AND APPROVED PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION. (IF VA STAFF CANNOT INSPECT PRIOR TO 4:30PM, THEN THE CHECK WILL BE THE NEXT BUSINESS DAY.)</li> <li>SEAL ALL PENETRATIONS IN CONTAINMENT BARRIERS, INCLUDING FLOORS AND CEILING, USING APPROVED MATERIALS (UL SCHEDULE FIRESTOP IF APPLICABLE FOR BARRIER TYPE).</li> <li>MAINTAIN. 01 INCHES /WATER GAUGE NEGATIVE PRESSURIZATION OF THE ENTIRE WORKSPACE BY USE OF HEPA EXHAUST AIR SYSTEMS DIRECTED OUTDOORS (UNLESS A WORK SPECIFIC WAIVER IS APPROVED BY VHA'S OFFICE OF HEALTHCARE ENGINEERING); THIS MUST BE MAINTAINED CONTINUOUSLY 24/7 FOR THE DURATION OF THE PROJECT. EXHAUST DISCHARGED DIRECTLY TO THE OUTDOORS THAT IS 25 FEET O GREATER FROM ENTRANCES, AIR INTAKES AND WINDOWS IS NOT REQUIRED TO BE HEPA-FILTERED. EXHAUSTING DISCHARGED AIR INTO SHARED</li> </ol>	
D	LARGE-SCALE DEMOI CEILINGS, FLOORING     THE INSTALLATION B     PLASTER WORK.     PLUMBING WORK SUGAN SUGAN SUGAN SUGAN SUGAN SUBJECT SINITING SHUTDOWN OF POTAL SUBJECT	LITION OF BUILDING, PIPING, ELECTRIC, UILDING COMPONEI UILDING COMPONEI CHAS SYSTEMS, NG HOT WATER, COKS, SHOWERS AND UCH AS INSTALLATI AN AREA, THE INSTARE ALARM AND SUPIDUCH AS THE INSTABUCH AS THE INSTABULLATION.	G COMPONENTS AND INTAL AND HVAC.  NTS SUCH AS NEW WA  ATION OF:  NDENSATE SYSTEMS,  TOILETS INCLUDING AS  M/HEATING HOT WATEF ION OF ELECTRICAL FE  ALLATION OF CONDUIT  PRESSION SYSTEMS.  PANELS.	IL ACTIVITY IS COMPLETED. NFRASTRUCTURE INCLUDING REMOVAL OF I NLLS, CEILINGS AND DOORS INCLUDING FRA SSOCIATED PLUMBING. R, CONDENSATE, AND MEDICAL GAS SYSTEM EEDERS, DISTRIBUTION PANELS, CONDUIT A T AND WIRE FOR NEW DEVICES SUCH AS TE OLING EQUIPMENT, ASSOCIATED DUCTWORK	MING, DRYWALL AND ASSOCIATED  MS. AND WIRE FOR LIGHTING, RECEPTACLES RMINAL UNITS, FANS ETC.	LEVEL IV  MINIMUM INFE	OR RECIRCULATING HVAC SYSTEMS, OR OTHER SHARED EXHAUST SYSTEMS (E.G., BATHROOM EXHAUST) IS PROHIBITED.  7. INSTALL A DIFFERENTIAL PRESSURE SENSING DEVICE (E.G., MAGNEHELIC, MANOMETER, OR DIGITAL MONITORING) ON EXTERIOR OF WORK CONTAINMENT TO CONTINUALLY MONITOR AND DOCUMENT NEGATIVE PRESSURIZATION. THE "BALL IN THE WALL" OR SIMILAR APPARATUS ARE NOT ACCEPTABLE.    ALL CONTROL MEASURES IN LEVELS I, II AND III AND THE FOLLOWING:   1. CONTAINMENT MUST INCLUDE AN ANTEROOM TO ENSURE PRESSURE CONTROL. ANTEROOM MUST BE LARGE ENOUGH FOR EQUIPMENT STAGIN CART CLEANING, WORKERS' PPE AND CLEANING.  2. WORKER CLOTHING AND/OR PPE MUST BE REMOVED OR CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA ANTEROOM. HEI VACUUMING OF CLOTHING OR USE OF COVER SUITS IS ACCEPTABLE.  3. WORKERS MUST WEAR SHOE COVERS OR HAVE A METHOD TO CLEAN SHOES IN ANTEROOM. SHOE COVERS MUST BE REMOVED PRIOR TO EXITI THE ANTEROOM TO THE OCCUPIED SPACE (NON-WORK AREA). DAMAGED SHOE COVERS MUST BE CHANGED IMMEDIATELY.  ECTION PREVENTION AND CONTROL MEASURES REQUIRED UPON COMPLETION OF THE ACTIVITY  CONTROL MEASURES
ATIENT RISK	CATEGORY					PRECAUTION	
LOW RISK  NON-PATIENT CARE AREAS SUCH AS:				LEVELS I-II	CLEANING:  1. CLEAN WORK AREAS INCLUDING ALL ENVIRONMENTAL SURFACES, HIGH HORIZONTAL SURFACES AND FLOORING MATERIALS. CHECK ALL SUPPLY AND RETURN AIR REGISTERS FOR DUST ACCUMULATION ON UPPER SURFACES AS WELL AS AIR DIFFUSER SURFACES. HVAC SYSTEMS:  1. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED. VERIFY THAT HVAC SYSTEMS ARE CLEAN AND OPERATIONAL.  2. VERIFY THE HVAC SYSTEMS MEET ORIGINAL AIRFLOW AND AIR EXCHANGE DESIGN SPECIFICATIONS.		
PUBLIC HALLWAYS AND GATHERING AREAS NOT IN CLINICAL AREAS OFFICE AREAS NOT IN CLINICAL AREAS BREAK ROOMS NOT IN CLINICAL AREAS BATHROOMS OR LOCKER ROOMS NOT IN CLINICAL AREAS MECHANICAL/ELECTRICAL ROOMS NOT IN CLINICAL AREAS		ING AREAS NOT IN  - CLINICAL ENGINEERING - AREAS, INCLUDING SPINAL CORD - ALL INTENSIVE CARE UNITS - ALL ONCOLOGY UNITS AND			WATER SYSTEMS:  1. UNTIL THE POTABLE WATER SYSTEM IS ACTIVATED AND IN USE, FLUSHING MUST CONTINUE AT LEAST TWICE PER WEEK IN ACCORDANCE WITH VHA DIRECTIVE 1061.		
		N CLINICAL  DEPARTMENT – DIRTY SIDE  KITCHEN, CAFETERIA, GIFT SHOP, COFFEE SHOP, AND FOOD KIOSKS AS  ICAL ROOMS  DEPARTMENT – DIRTY SIDE  ALL OUTPATIENT UNITS AND CLINICS  CLINICS  AREAS  COMMUNITY LIVING CENTERS, DOMICILIARIES, AND TRANSITIONAL  OR THEATERS AND RESTRICTED AREAS  HEMODIALYSIS UNITS PROCEDURAL ROOMS*  PHARMACY COMPOUNDING AREA			AREAS  • HEMODIALYSIS UNITS  • PROCEDURAL ROOMS*  • PHARMACY COMPOUNDING AREA  • STERILE PROCESSING DEPARTMENT – CLEAN SIDE  • TRANSFUSION SERVICES  • IMAGING SUITES – INTERVENTIONAL IMAGING  • DEDICATED ISOLATION WARDS/UNITS FOR INFECTIOUS	LEVELS III-IV	CONSTRUCTION AREAS MUST BE INSPECTED BY AN INFECTION PREVENTIONIST AND ENGINEERING REPRESENTATIVE (AND OTHERS AS DETERMIN BY THE FACILITY) FOR FINAL ACTIVITY/PROJECT CLOSE OUT AND REMOVAL OF INFECTION PREVENTION AND CONTROL MEASURES.  WORK AREA CLEANING:  1. CLEAN WORK AREAS INCLUDING ALL ENVIRONMENTAL SURFACES, HIGH HORIZONTAL SURFACES AND FLOORING MATERIALS.  2. CHECK ALL SUPPLY AND RETURN AIR REGISTERS FOR DUST ACCUMULATION ON UPPER SURFACES AS WELL AS AIR DIFFUSER SURFACES.  REMOVAL OF CRITICAL BARRIERS:  1. CRITICAL BARRIERS MUST REMAIN IN PLACE DURING ALL WORK INVOLVING DRYWALL REMOVAL, CREATION OF DUST AND ACTIVITIES BEYOND SIMPLE TOUCH-UP WORK. THE BARRIER MAY NOT BE REMOVED UNTIL A WORK AREA CLEANING HAS BEEN PERFORMED. ADDITIONAL CLEANING MAY BE NEEDED AFTER REMOVAL OF BARRIER.  2. ALL BARRIER REMOVAL ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE. USE THE FOLLOWING PRECAUTIONS WHEN REMOVING HARD BARRIERS:  1. CAREFULLY REMOVE SCREWS AND PAINTER TAPE.  11. IF DUST WILL BE GENERATED DURING SCREW REMOVAL, USE HAND-HELD HEPA VACUUM.  111. DRYWALL CUTTING IS PROHIBITED DURING REMOVAL PROCESS.  1V. CLEAN ALL STUD TRACKS WITH HEPA VACUUM BEFORE REMOVING OUTER HARD BARRIER.  V. USE A PLASTIC BARRIER TO ENCLOSE AREA IF DUST COULD BE GENERATED.
EVEL OF INFE	ECTION PREVENTION	ON AND CONTR	ROL PRECAUTION	<u> </u>		1	NEGATIVE AIR REQUIREMENTS:  1. THE USE OF NEGATIVE AIR MUST BE DESIGNED TO REMOVE CONTAMINANTS FROM THE WORK AREA.
	<u>A</u> B	С	D			-	2. NEGATIVE AIR DEVICES (FANS, FILTERS, MONITORING AND DOCUMENTATION EQUIPMENT) MUST REMAIN OPERATIONAL AT ALL TIMES AND IN PLACE FOR A PERIOD AFTER COMPLETION OF DUST CREATING ACTIVITIES TO REMOVE CONTAMINANTS FROM THE WORK AREA AND BEFORE REMOVAL OF CRITICAL BARRIERS.
LOW RISK	1 11	III	IV				HVAC SYSTEMS:  1. UPON REMOVAL OF CRITICAL BARRIERS, REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.
	i		1 1			Ī	THE OF OUR NEW OWNER OF OMITIONE DAMMENO, MEINIONE BOLLATION OF HIVAU STOTEN IN AREAS WHERE WURK 13 DEING MEKFUKWEU.
MEDIUM RISK	I II	III	IV				2. VERIFY THAT HVAC SYSTEMS ARE CLEAN AND OPERATIONAL. 3. VERIFY AND DOCUMENT THROUGH A TAB THE HVAC SYSTEMS MEETS ORIGINAL AIRFLOW AND AIR EXCHANGE DESIGN SPECIFICATIONS.

## INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE

CONSTRUCTION ACTIVITY CATEGORY:	CATEGORY B
PATIENT RISK CATEGORY:	MEDIUM RISK
INFECTION PREVENTION AND CONTROL MEASURE:	LEVEL OF PRECAUTION - II
PHASE 2A: SITE PREPARATION	
SEE PCRA RISK ASSESSMENT	
PHASE 2B: SPD TRAILER DELIVERY AND SET-UP	
SEE PCRA RISK ASSESSMENT	
PHASE 2C: SPD TRAILER ENCLOSURE AND MEPT CON	INECTION
SEE PCRA RISK ASSESSMENT	
PHASE 3: SPS CONSTRUCTION	
CONSTRUCTION ACTIVITY CATEGORY:	CATEGORY D
PATIENT RISK CATEGORY:	HIGHEST RISK
INFECTION PREVENTION AND CONTROL MEASURE:	LEVEL OF PRECAUTION - IV

### CONSTRUCTION PHASING **GENERAL NOTES**

1. THE WORK UNDER THIS CONTRACT MUST BE DIVIDED INTO PHASES. A PHASE CAN INVOLVE MULTIPLE LOCATION AREAS. SEE SPECIFICATIONS SECTION 01 00 00

2. THE GENERAL CONTRACTOR MUST COORDINATE ALL PHASING AND SEQUENCING WITH ALL TRADES AND THE OWNER. THE GENERAL CONTRACTOR MUST PROVIDE

A WRITTEN NARRATIVE TO OUTLINE CONSTRUCTION PHASING AND SEQUENCE

PLANS, VALIDATING AND ELABORATING ON THIS PHASING DESCRIPTION. 3. THE GENERAL CONTRACTOR MUST COOPERATE FULLY WITH THE OWNER SO WORK MAY BE CARRIED OUT SMOOTHLY. WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT, OR OTHER CONTRACTS ON THE PROJECT SITE OR WORK BY OWNER.

4. THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULE MUST INDICATE THE SEQUENCE, COMMENCEMENT AND COMPLETION DATES, OWNER INSPECTION AND APPROVAL DATES AND MOVE-OUT AND MOVE-IN DATES OF OWNER'S PERSONNEL FOR ALL PHASES OF THE WORK.

5. THE GENERAL CONTRACTOR MUST PERFORM THE WORK IN EACH PHASE IN THE SEQUENCE SHOWN ON THE PHASING PLAN DRAWING(S) AND CONSTRUCTION PHASING DESCRIPTION.

6. THE GENERAL CONTRACTOR MUST COMPLETE ALL WORK IN EACH PHASE WITH THE VA INSPECTING AND ACCEPTING THE WORK PRIOR TO VA OCCUPANCY AND THE CONTRACTOR PROCEEDING TO THE NEXT SCHEDULED PHASE. UPON COMPLETION OF A PARTICULAR PHASE, THE ENTIRE AREA COVERED BY THAT PHASE CAN BE OCCUPIED BY THE VA PERSONNEL WITH ALL SYSTEMS

7. BEFORE COMMENCING WORK ON EACH SUCCESSIVE PHASE, THE GENERAL CONTRACTOR MUST SUBMIT AN UPDATED COPY OF THE SCHEDULE.

FUNCTIONING PROPERLY.

8. ANY DUST PARTITIONS OR ICRA-CONSTRUCTION BARRIERS CONSTRUCTED BY THE CONTRACTOR PRIOR TO THE START OF DEMOLITION MUST REMAIN IN PLACE UNTIL THE COMPLETION OF THAT PHASE OR SUBSEQUENT PHASE WHERE

9. THE CONTRACTOR MUST PERFORM ALL WORK ADJACENT TO VA OCCUPIED AREAS IN SUCH A MANNER TO ENSURE THE CONTINUOUS AND UNINTERRUPTED USE OF ALL OCCUPIED AREAS, INCLUDING THE APPLICABLE MECHANICAL AND ELECTRICAL SYSTEMS SERVING THESE AREAS.

10. FOR ADDITIONAL NOTES AND INFORMATION REFER TO INFECTION CONTROL DRAWING(S), DEMOLITION PLANS AND SPECIFICATIONS.

1. ANY INFORMATION REGARDING SEQUENCING PROVIDED IN THE DOCUMENTS IS FOR ARCHITECT-OWNER PLANNING PURPOSES ONLY.

POSSIBLE AND WILL NOTIFY THE CONTRACTOR IF THIS OCCURS.

12. THE CONTRACTOR DURING CONSTRUCTION MUST MAINTAIN REQUIRED MEANS OF EGRESS THROUGHOUT ALL PHASING. COORDINATE WITH VA FOR INTERIM LIFE

SAFETY AS REQUIRED. 13. THE CONTRACTOR MUST PLAN FOR A MINIMUM OF 4 WEEKS' TIME BETWEEN PHASES TO ALLOW THE VA TO OCCUPY THE NEWLY ACCEPTED SPACE AND

VACATE THE FOLLOW-ON PHASES. THE VA WILL ACCELERATE THIS TIME WHEN

## INFECTION CONTROL & **CONSTRUCTION BARRIER** GENERAL NOTES

1. SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION

2. THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA PERIMETER NEEDS TO BE SEALED COMPLETELY WITH SHEET PLASTIC AS SPECIFIED AND DUCT TAPE DURING OPERATIONS, WHERE PERMITTED BY CLASS. ICRA - CONSTRUCTION BARRIER TO BE PROVIDED AS SPECIFIED AND LISTED IN

3. PROVIDE NEGATIVE PRESSURE MONITORS DURING CONSTRUCTION OPERATIONS AS SPECIFIED. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOM AS DIRECTED BY VA.

4. AS CONSTRUCTION PROGRESSES, FROM TYPE D TO TYPE C AND THEREON,

PROVIDE A REQUEST VIA "INFECTION CONTROL CONSTRUCTION PERMIT" TO THE VA INFECTION CONTROL NURSE. UPON AUTHORIZATION, PROCEED TO NEXT TYPE OF CONSTRUCTION. PROVIDE AT LEAST TEN (10) WORKING DAYS NOTICE FOR 5. CONSTRUCT IC (INFECTION CONTROL) CONSTRUCTION BARRIER(S) FROM FLOOR

TO DECK/FLOOR ABOVE. EXCEPTION. IF BARRIER IS ADJACENT TO SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR/DECK ABOVE, THEN CONSTRUCT DUST PROOF IC BARRIER, SEE DETAIL(S). TAPE, MUD, SAND JOINTS AND PAINT ON NON-CONSTRUCTION SIDE OF BARRIER.

6. INFECTION CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 AM AND AFTER 8:00 PM OR DIRECTED BY COR. ALL ICRA BARRIERS MUST BE INSPECED BY VA PRIOR TO THE START OF WORK.

7. DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS, MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 5000 SF, AND (3) THREE FOR

AREAS BETWEEN 5000 SF AND 10000 SF. 8. LIFE SAFETY EGRESS IS TO BE MAINTAINED AT ALL TIMES.

9. THE CONTRACTOR MUST PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXCHANGE THE REGULATED AREA AIR VOLUME (4) FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON MUST DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUBIC FEET IN THE REGULATED AREA BY (15) FIFTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUBIC FEET PER MINUTE (CFM) FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED TO EFFECT (4) FOUR AIR CHANGES PER HOUR. PROVIDE A STANDBY UNIT IN THE EVENT OF MACHINE FAILURE AND/OR EMERGENCY IN AN ADJACENT AREA.

10. PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED PARTITIONS, CONSTRUCT NEW SMOKE BARRIER/APPROPRIATE FIRE RATED PARTITIONS PER PLANS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE

BID DOCUMENT SUBMISSION

Revisions:

CONSULTANT **♦IMEG 2882 106TH STREET** 

**DES MOINES IA 50322** 

DESIGNER OF RECORD ANDERSON

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

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Office of

Construction and Facilities Management

| U.S. Department

Drawing Title

ICRA & PCRA NOTES AND CATEGORIES

**Project Number Project Title** 437-CSI-241 PERFORM SITE PREP BID DOCUMENTS **Building Number** FOR SPS EQUIPMENT Drawing Number FARGO, ND **FULLY SPRINKLERED** Checked Drawn

Anderson Engineering of Minnesota, LLC | Proj # 17639

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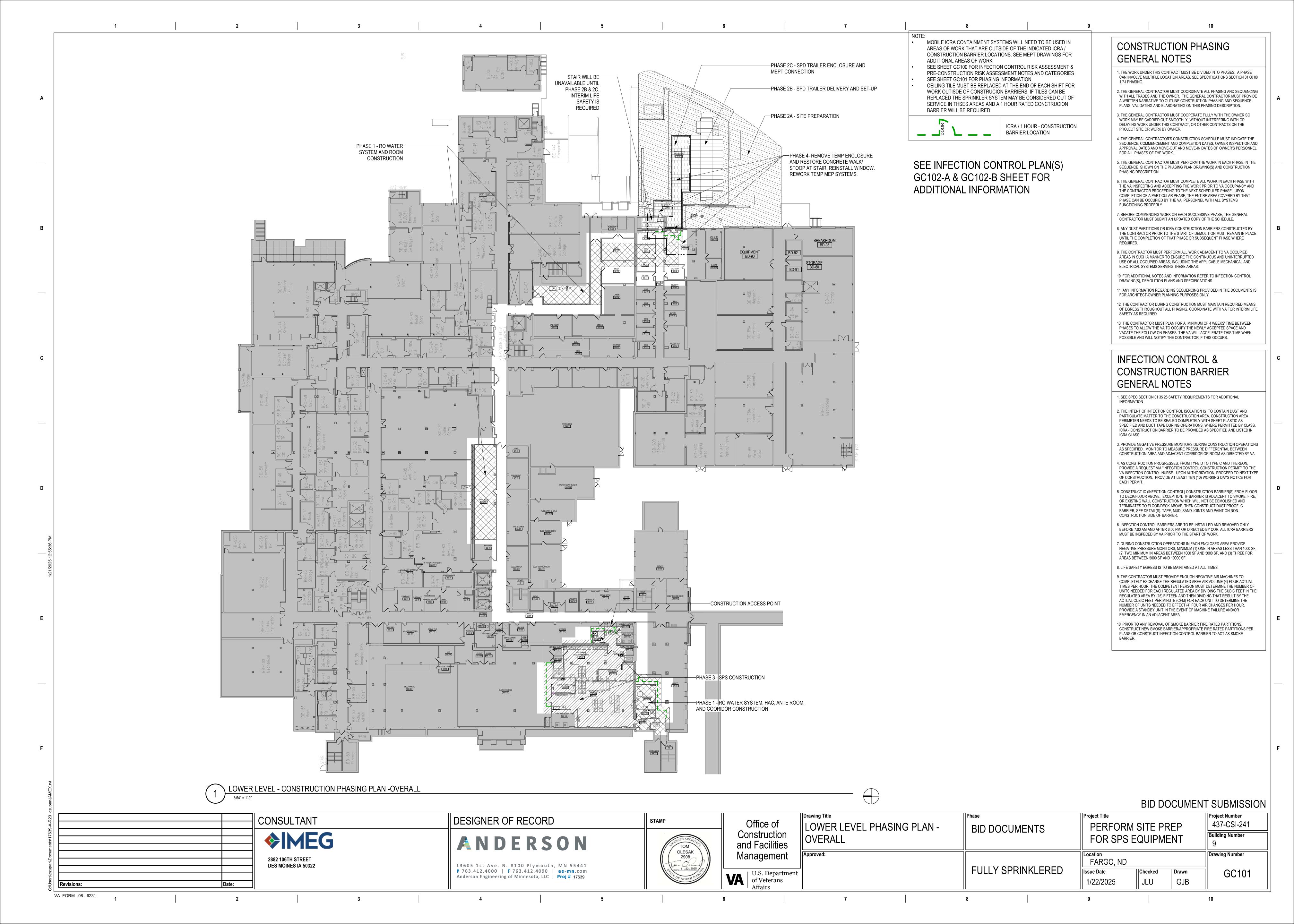
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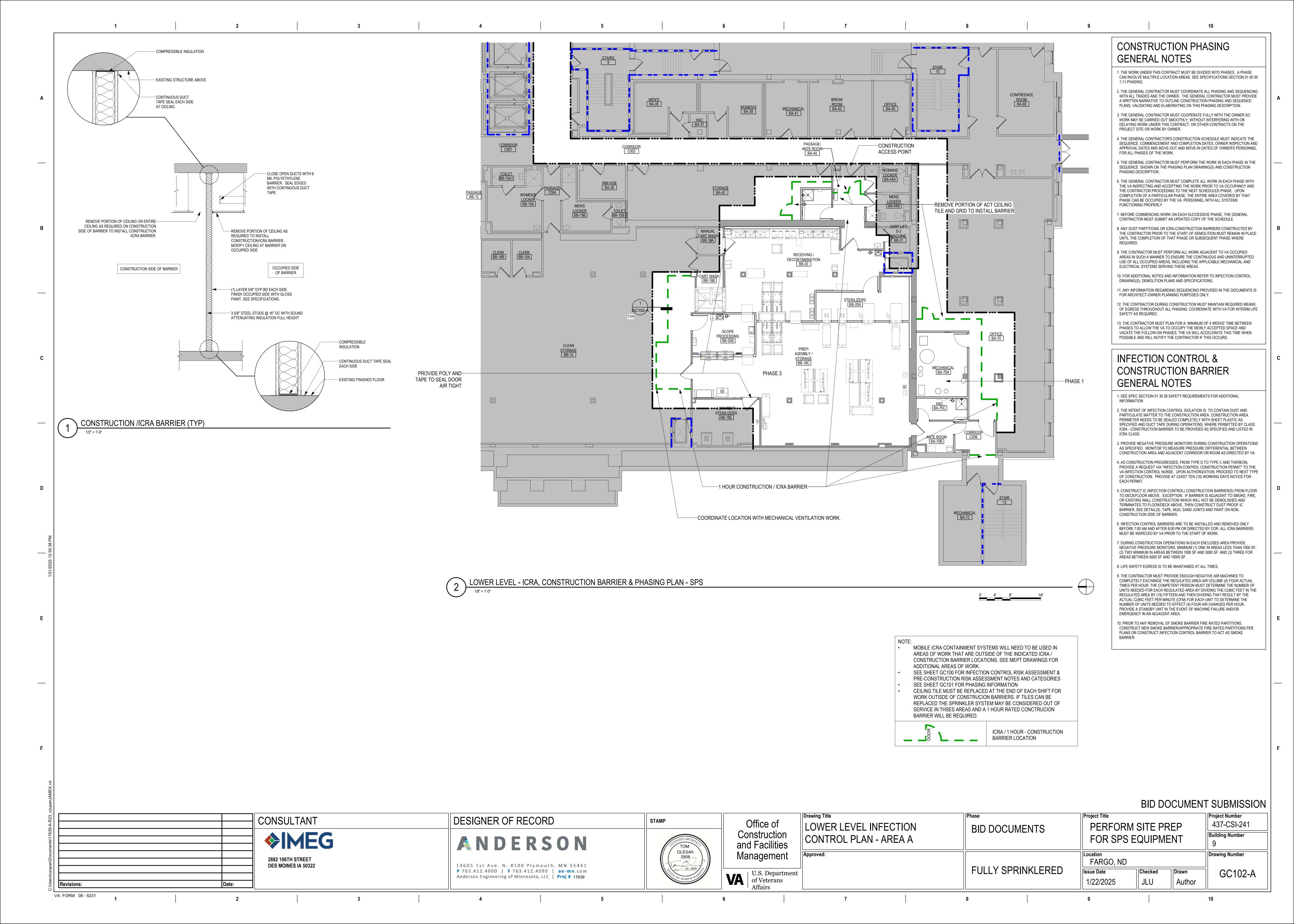
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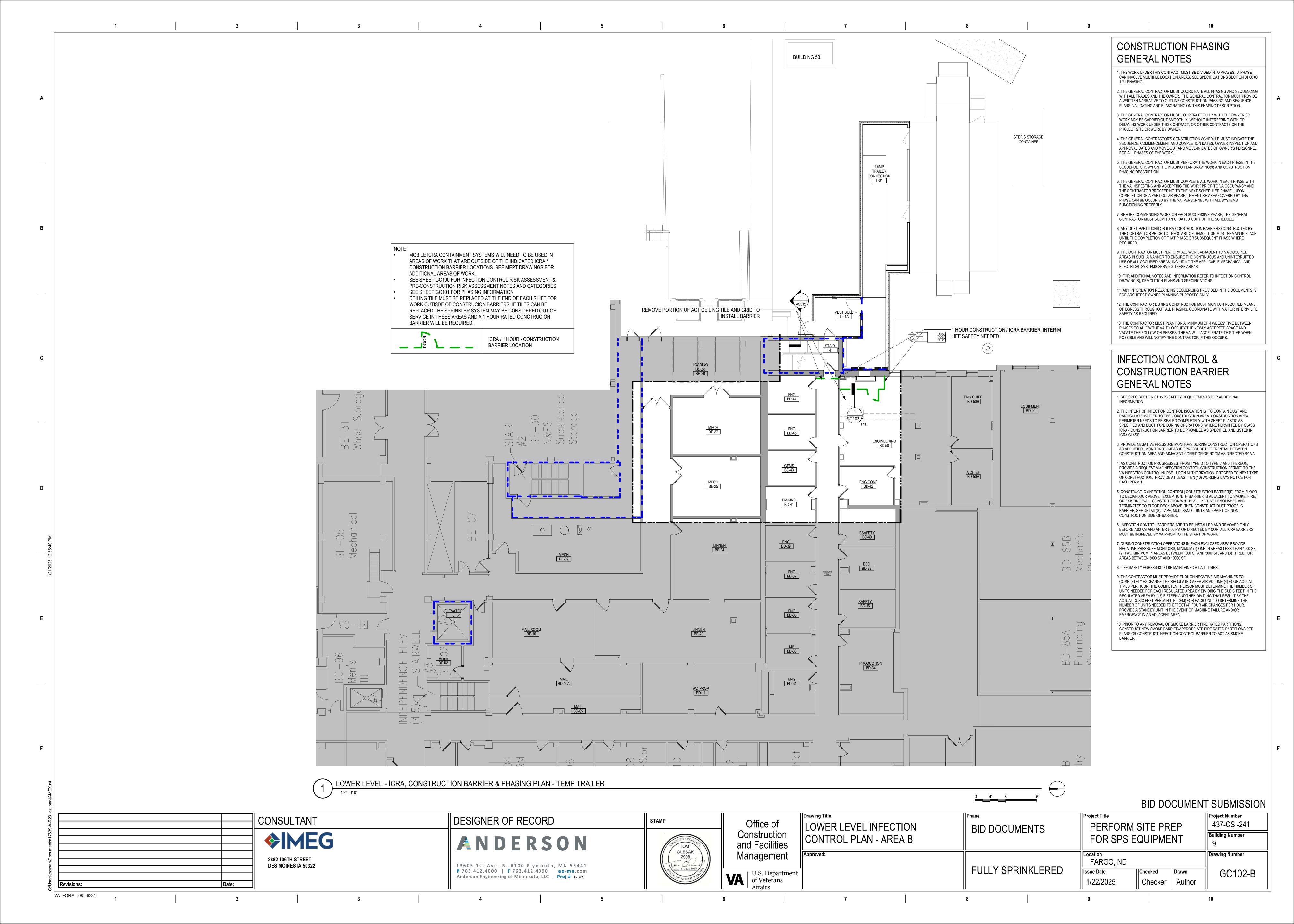
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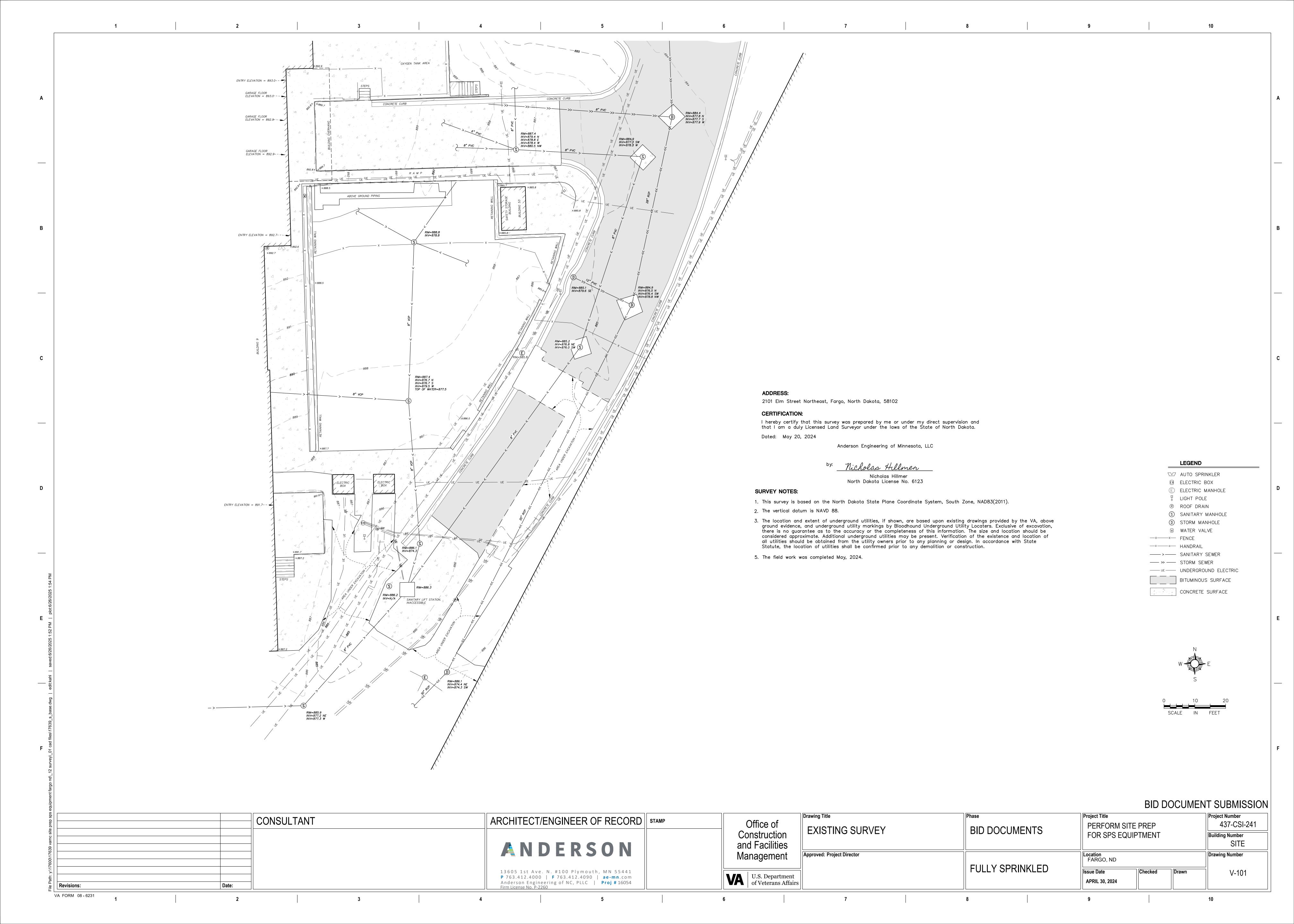
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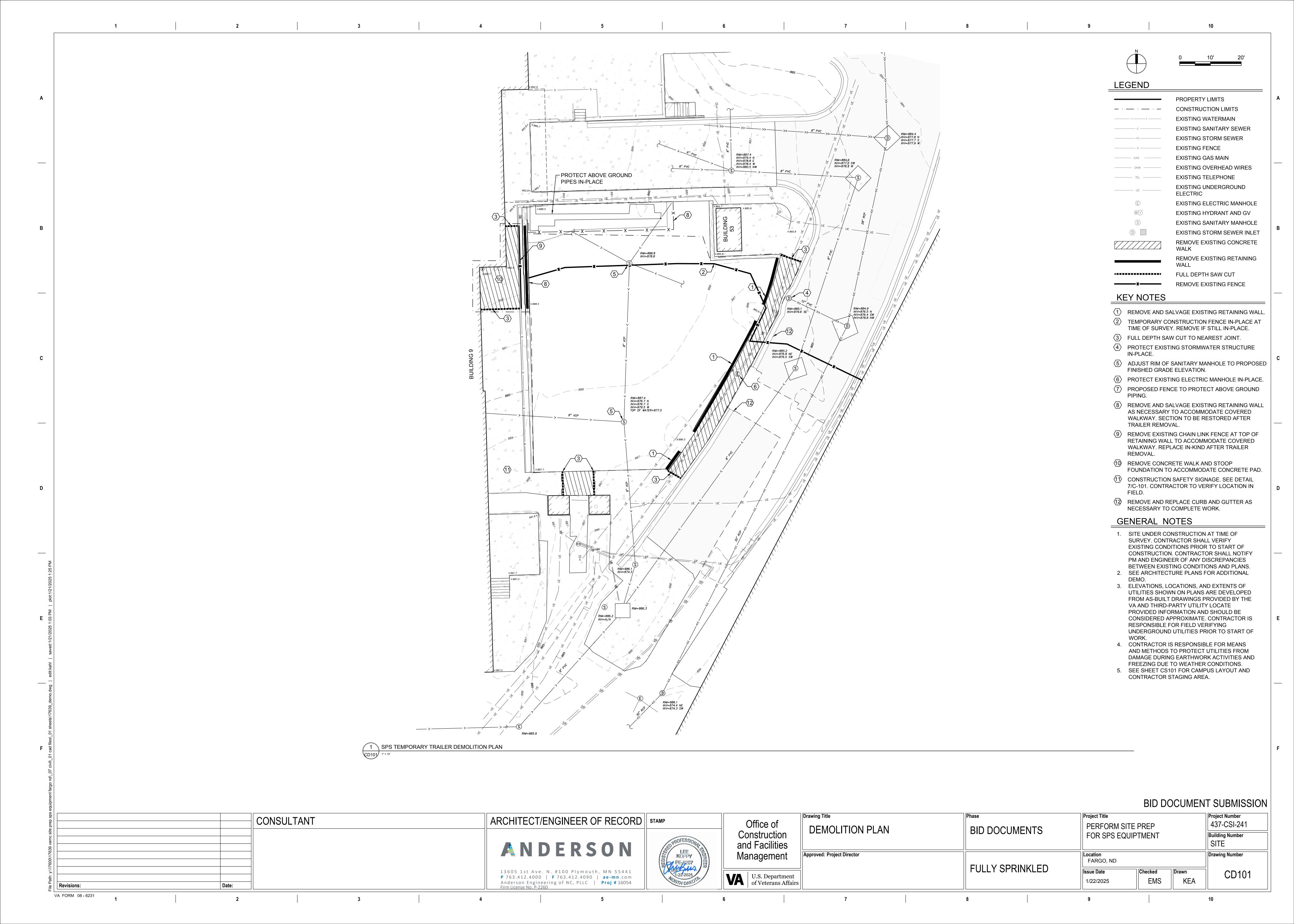
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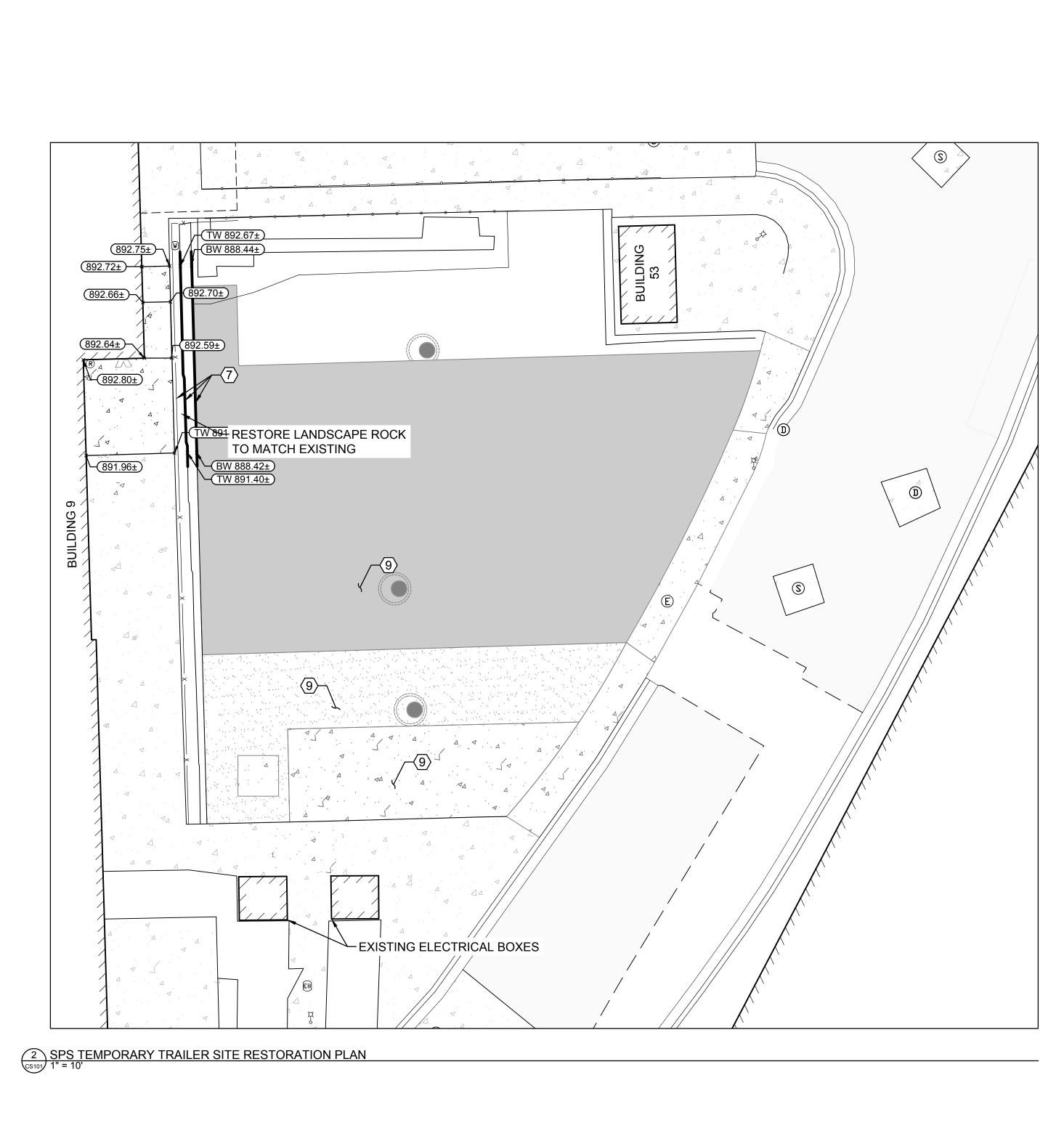


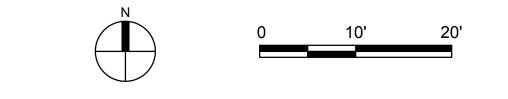












#### LEGEND

PROPOSED CONSTRUCTION FENCE PROPOSED CONCRETE PAD. SEE DETAIL SHEET C-101 PROPOSED CONCRETE. SEE DETAIL SHEET C-101

PROPOSED NDDOT CLASS 7 FOR SURFACE COVERAGE

TEMP. JERSEY BARRIER, SEE NDDOT D-704-51 STANDARD PLATE MATCH EXISTING SPOT ELEVATION MATCH TOP/BOTTOM OF EXISTING WALL

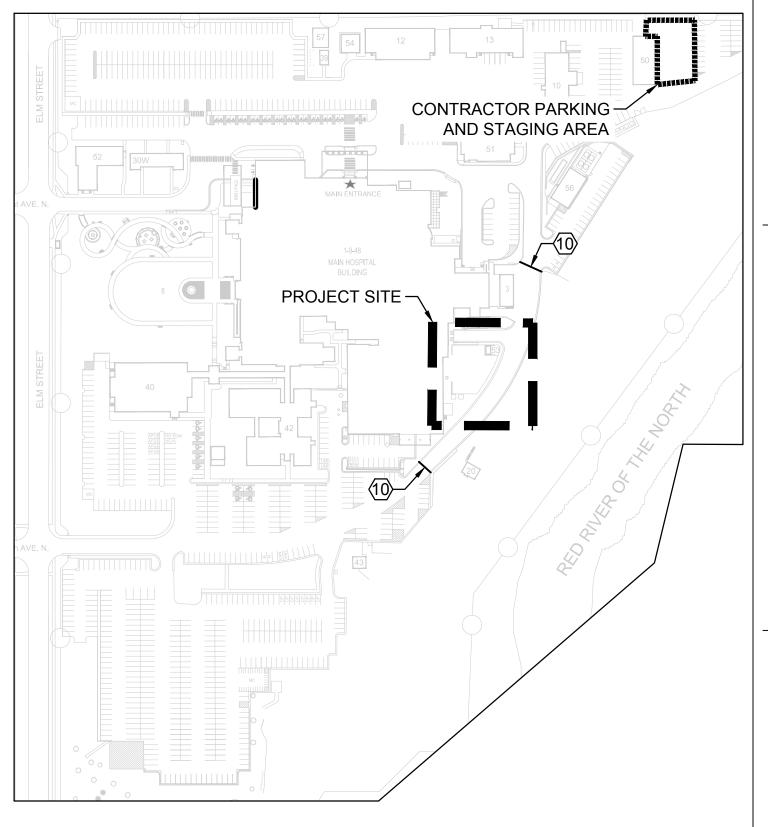
### **GENERAL NOTES**

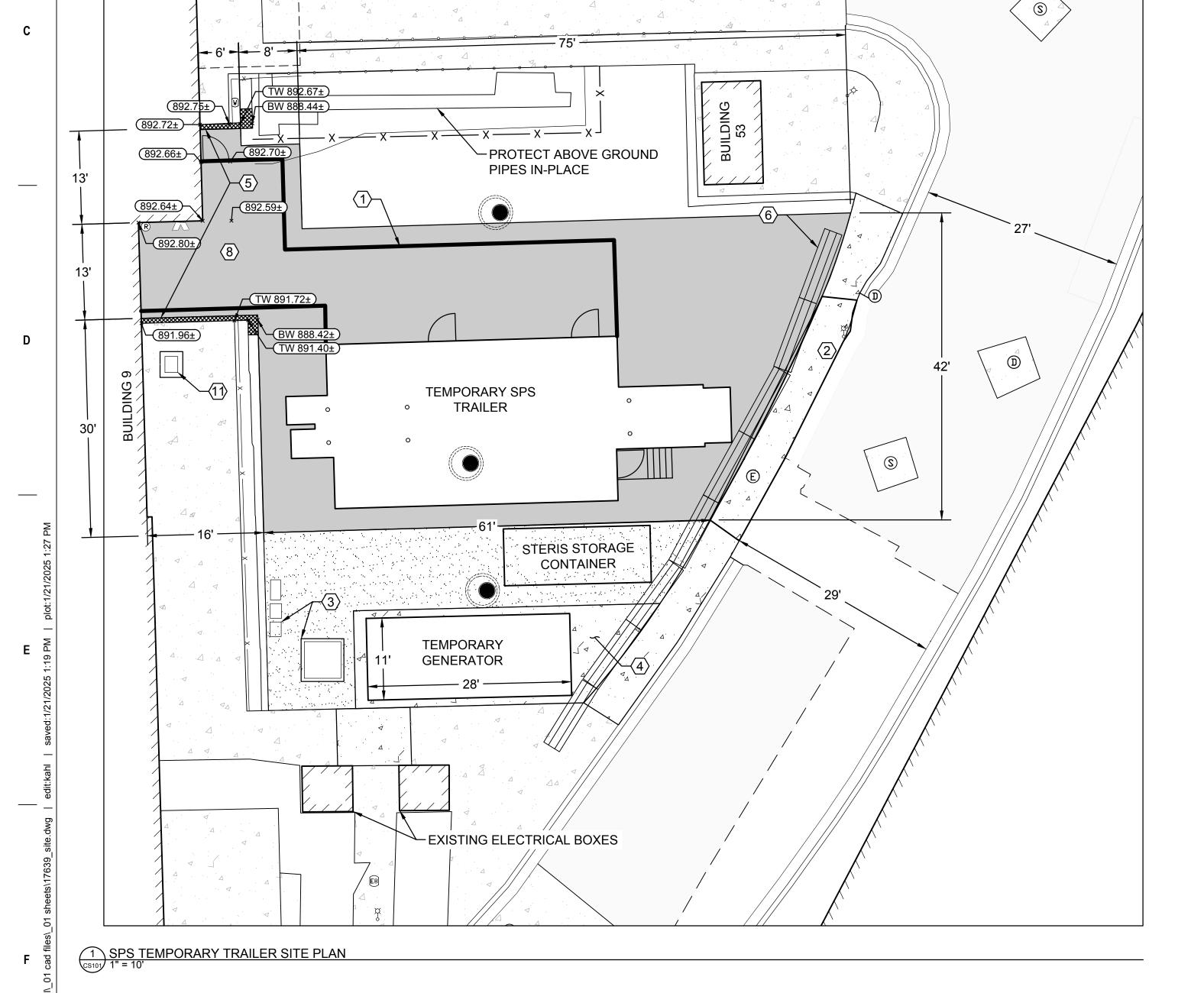
- 1. TEMPORARY TRAILER IS REQUIRED TO BE ANCHORED TO CONCRETE PAD. 2. ALL UTILITIES EXCEPT SANITARY WILL BE PROVIDED BY BUILDING 1. SEE
- MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. 3. TRAILER LOCATION PROVIDED FOR INFORMATION ONLY. TRAILER TO BE FIELD
- LOCATED AND ADJUSTED AS NECESSARY TO ACCOMMODATE WORK. 4. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION FENCING MATERIALS AND MAINTENANCE. VERIFY CONSTRUCTION FENCING LOCATION WITH C.O.R. PRIOR
- TO INSTALLATION. 5. SPOT ELEVATIONS SHOWN IN 1/CS101 REFER TO COVERED WALKWAY BUILDING CONNECTOR ELEVATION.

### **KEY NOTES**

- 1 TEMPORARY TRAILER ELEVATED WALKWAY BUILDING CONNECTOR. SEE ARCHITECTURE PLANS FOR DETAILS.
- 2 PROPOSED CONCRETE DRIVEWAY APRON. SEE DETAIL 6/SHEET C-101
- 3 SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. TEMPORARY LINES FROM TRANSFORMER TO TRAILER TO FOLLOW ELECTRICAL/TECHNOLOGY PLANS.
- 4 CONCRETE BASE FOR GENERATOR TRAILER.
- (5) PROPOSED RETAINING WALLS, SEE STRUCTURAL PLANS.
- (6) TEMPORARY JERSEY BARRIER, SEE NDDOT D-704-51 STANDARD PLATE.
- (7) REINSTALL SALVAGED RETAINING WALL BLOCK, SIDEWALK, AND FENCE. THE FINAL PRODUCT WILL MATCH EXISTING CONDITIONS PRIOR TO DEMOLITION. SEE SPECIFICATION SECTION 32 32 23 FOR RETAINING WALL DETAILS. MATCH EXISTING GRADES. POUR NEW STOOP PER STRUCTURAL DRAWINGS.
- 8 REMOVE CONCRETE PAD AS NECESSARY AFTER TRAILER REMOVAL TO RESTORE TO EXISTING CONDITIONS. FULL DEPTH SAWCUT AT REMOVAL LIMITS.
- 9 CONCRETE PADS AND GRAVEL TO REMAIN AFTER TRAILER REMOVAL.
- 10 TEMPORARY TRAFFIC BARRIERS TO CLOSE ROAD DURING TRAILER DELIVERY AND SET-UP. FIELD VERIFY LOCATION WITH C.O.R. PRIOR TO PLACEMENT.
- 11) TEMPORARY ELECTRICAL TRANSFORMER AND HOUSEKEEPING PAD. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

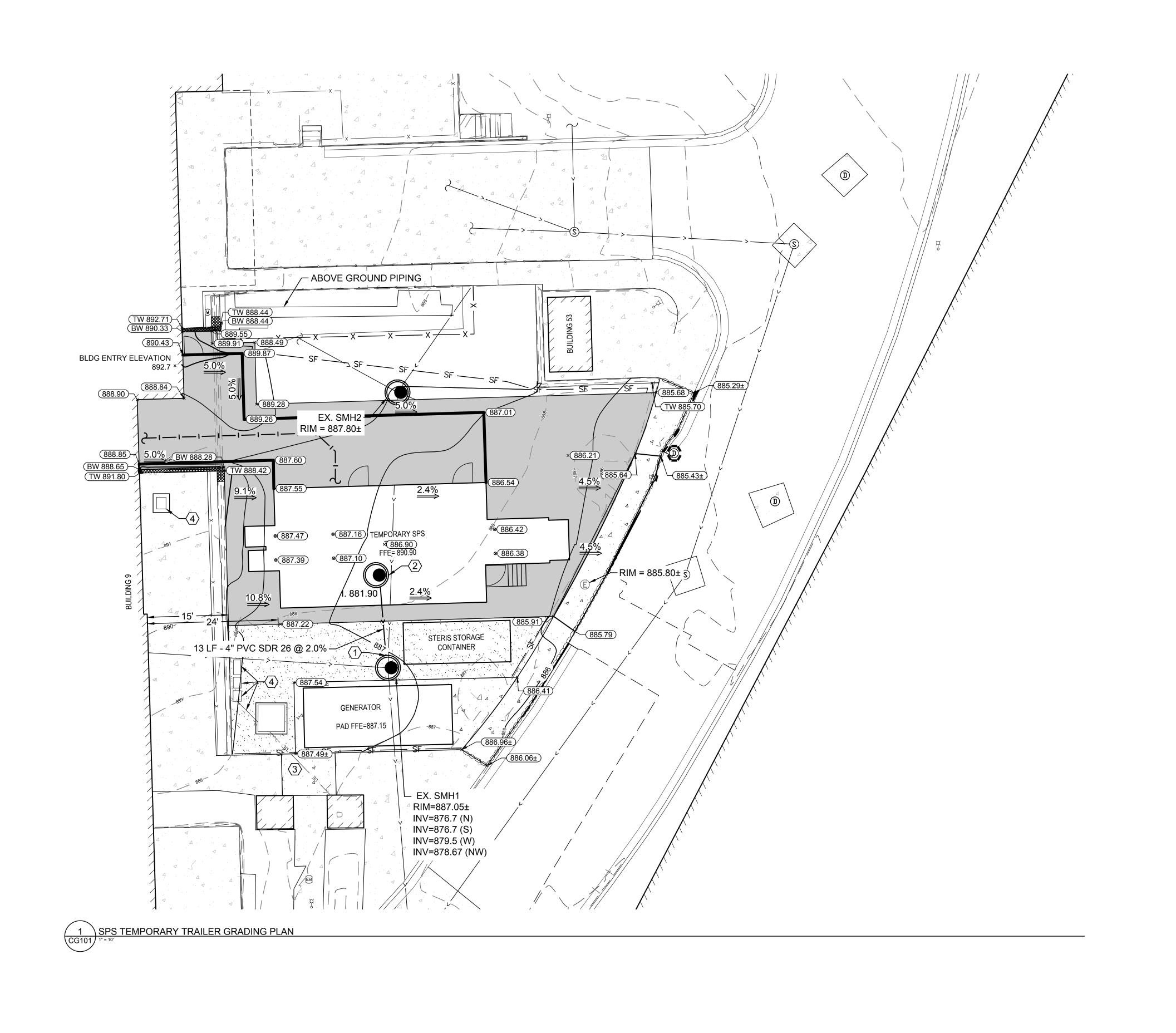
### **KEY MAP**





### BID DOCUMENT SUBMISSION

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specification of the second of	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title SITE PLAN	Phase DID DOOLINAENTO		Project Number 437-CSI-241
o vamo site		ANDEDCON	ED PROFESSION AL	Construction and Facilities	SILILAN	BID DOCUMENTS	FOR SPS EQUIPTMENT	Building Number SITE
17600/1763		ANDERSON	KOPPY PE-8207	Management	Approved: Project Director	FULLY SPRINKLED	Location FARGO, ND	Drawing Number
Revisions:  Date:		13605 1st Ave. N. #100 Plymouth, MN 55441  P 763.412.4000   F 763.412.4090   ae-mn.com  Anderson Engineering of NC, PLLC   Proj # 16054  Firm License No. P-2260	1-22-2025 NORTH DAKOTA	U.S. Department of Veterans Affairs		FULLI SPRIINKLED	Issue Date 1/22/2025  Checked EMS  Checked KEA	CS101





### LEGEND

—  —	EXISTING MAJOR CONTOUR
966 ———	PROPOSED MINOR CONTOUR
965 ———	PROPOSED MAJOR CONTOUR
$\Longrightarrow$	DRAINAGE ARROW
——— SF ———	SILT FENCE
0	INLET SEDIMENT PROTECTIO
×(800.1)	SPOT ELEVATION OF CONCRI
<b>★</b> (FL 800.1)	FLOW LINE OF CURB
★(H/L 800.1)	HIGH/LOW POINT
<b>★</b> (R 800.1)	RIM ELEVATION
<b>★</b> (TC 800.1)	TOP OF CURB
<b>★</b> (T/BW 800.1)	TOP/BOTTOM OF WALL
I	EXISTING WATERMAIN
<	EVICTING CANUTARY OF MED
	EXISTING SANITARY SEWER

PROPERTY LIMITS

CONSTRUCTION LIMITS

EXISTING MINOR CONTOUR

**EXISTING STORM SEWER** 

PROPOSED WATERMAIN

PROPOSED SANITARY SEWER

PROPOSED STORM SEWER

**EROSION CONTROL BIO-ROLL** 

PROPOSED WATERMAIN

#### PROPOSED SANITARY MANHOLE AND CLEANOUT PROPOSED STORM INLETS

## **KEY NOTES**

 $-\infty\infty\infty\infty\infty\infty$ 

- 1 CORE DRILL INTO EXISTING SANITARY MANHOLE TO CONNECT SANITARY SERVICE LINE FROM TEMPORARY SPS TRAILER.
- (2) SEE SHEET C-101 FOR SANITARY PIPE CONNECTION.
- (3) UNDERGROUND ELECTRIC LINE TO REMAIN AFTER TRAILER REMOVAL.
- 4 ELECTRICAL COMPONENTS TO BE REMOVED AFTER TRAILER REMOVAL.

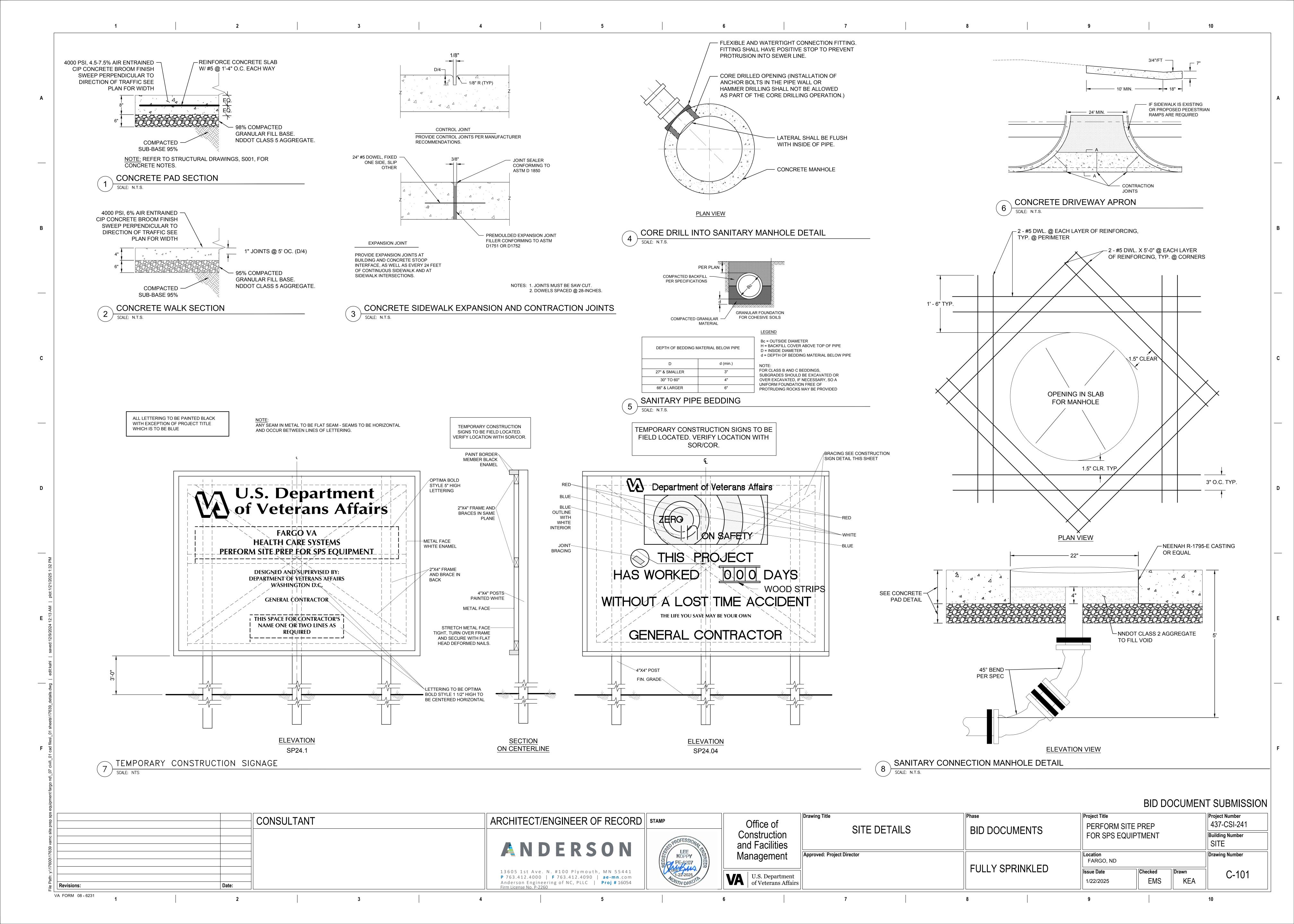
### **GENERAL NOTES**

- 1. SITE CURRENTLY UNDER CONSTRUCTION AT TIME OF SURVEY. CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING CURB AND GUTTER PRIOR TO STARTING WORK. CONTRACTOR SHALL NOTIFY VA PM AND ENGINEER OF RECORD OF ANY ELEVATION DISCREPANCIES.
- 2. SITE PREP AND GRADING TO BE COMPLETED PRIOR TO TRAILER DELIVERY. CONTRACTOR TO COORDINATE WITH TRAILER MANUFACTURER ON ACCEPTABLE SITE CONDITIONS.
- 3. ALL UTILITIES EXCEPT SANITARY WILL BE PROVIDED BY BUILDING 1. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. 4. SPOT ELEVATIONS SHOWN FOR CONCRETE PAD
- BELOW ELEVATED WALKWAY BUILDING CONNECTION.

## BID DOCUMENT SUBMISSION

Drawing Title
GRADING, UTILITY & Project Title Project Number CONSULTANT ARCHITECT/ENGINEER OF RECORD | STAMP Office of 437-CSI-241 PERFORM SITE PREP BID DOCUMENTS Construction and Facilities **Building Number** FOR SPS EQUIPTMENT **EROSION CONTROL PLAN** SITE ANDERSON Approved: Project Director Drawing Number Management Location FARGO, ND FULLY SPRINKLED Checked Drawn 13605 1st Ave. N. #100 Plymouth, MN 55441 CG101 U.S. Department of Veterans Affairs P 763.412.4000 | F 763.412.4090 | ae-mn.com KEA EMS 1/22/2025 Anderson Engineering of NC, PLLC | **Proj #** 16054 Firm License No. P-2260 Date: Revisions:

VA FORM 08 - 6231



ABBREVIATIONS & SYMBOLS: AMERICAN PLYWOOD AMERICAN SOCIETY OF TESTING CONSTRUCTION CONTROL JOIN1 CONTROL JOIN CENTER LIN CONCRET CONTINUOUS DOUBLE TEE / DRAIN TILE DIMENSION EXPANSION JOIN ELEVATOR **EXCAVATION** FLOOR DRAIN FOUNDATION GENERAL CONTRACTOR GIRDER TRUS HOLLOWCOR HORIZONTA HOLLOW STRUCTURAL SECTION INSIDE FACE KIPS PER LINEAR FOO KIPS PER SQUARE INCH LIVE LOAD / DOUBLE ANGLE LONG LEG HORIZONTA LONG LEG VERTICAL LIGHT WEIGHT CONCRETE MECHANICAL CONTRACTOR **MECHANICAI** MANUFACTURER NOT TO SCALE NON-SHRIN ON CENTER OUTSIDE DIAMETER OUTSIDE FACE POWDER ACTUATED FASTENER PRECAST CONCRETE POUNDS PER LINEAR FOO POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH ROOF DRAIN REINFORCING REQUIRED STUD ANCHOR SOIL BORING SEE DETAIL SUPERIMPOSED DEAD LOAD STRUCTURAL ENGINEER OF SUPERIMPOSED LIVE LOAD STAINLESS STEE SPACING / SPACES **SPECIFICATIONS** STANDARD TONGUE & GROOVE TOP OF BEAM TOP OF JOIS TOP OF STEE TOP OF WAL TOP OF STEEL ELEVATION TEMPORAR THICK / THICKENED UNLESS OTHERWISE NOTED WITH OUT WELDED WIRE FABRIC

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL COMPLY WITH THE 2021 INTERNATIONAL BUILDING CODE, AS APPROVED BY THE STATE OF NORTH DAKOTA / CITY OF FARGO.

2. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ ENGINEER OF ANY DISCREPANCIES OR

3. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL

- 4. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. TEMPORARY BRACING AND SHORING AGAINST WIND AND ERECTION CONDITIONS DURING CONSTRUCTION OF THE BUILDING. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF DEMOLITION, CONSTRUCTION, AND
- 5. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
- 6 VERIEY LOCATION OF BOX OUTS AND OPENINGS WITH MECHANICAL CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR PIPES. DUCTS ETC. ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR BEFORE COMMENCING THE WORK.
- . IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON PLANS, COORDINATE ADJUSTMENTS WITH THE STRUCTURAL ENGINEER.
- 8. HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACEMENT THROUGH
- 9. CONTRACTOR SHALL PROVIDE A CAST-IN SLEEVE FOR ALL HORIZONTAL ELEMENTS THAT EXTEND THROUGH FOOTING. IE: DRAIN TILE, ELECTRICAL CONDUIT, MECHANICAL PIPING, ETC. ALL SLEEVES SHALL BE COORDINATED
- 10. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC., SHALL BE DIMENSIONED, REVIEWED, COORDINATED, AND SIGNED/ STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER.
- 11. FABRICATOR SHALL CLEARLY NOTE CHANGES MADE IN THE SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS. REVIEWED APPROVAL SHOP DRAWINGS SHOWING ENGINEERS COMMENTS ACCOMPANIED WITH RECORD SET SHOP SHOP DRAWINGS, SHALL BE AVAILABLE FOR REFERENCE AT THE CONSTRUCTION SITE.
- 12. CONCRETE ANCHORS SHALL BE SIMPSON 'TITEN HD" SCREW ANCHORS OR EQUIVALENT (U.O.N.). INSTALL ANCHORS USING THE MANUFACTURER'S

#### FOUNDATION NOTES:

- 1. FOOTING ELEVATIONS ARE TO TOP OF FOOTING (T.O. FTG.), UNLESS
- FOOTINGS ARE DESIGNED FOR AN ASSUMED MINIMUM NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 psf. FOR CONTINUOUS AND PAD FOOTINGS. THIS VALUE SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER, SUBMIT REPORT OF OBSERVATION TO ARCHITECT/ENGINEER PRIOR TO POURING FOOTINGS.
- FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ENGINEERED FILL SOILS SHALL BE OBSERVED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOOTING CONCRETE. IF NATURAL UNDISTURBED SOILS ARE NOT ENCOUNTERED AND/OR INADEQUATE SOILS ARE NOTED AT FOOTING BEARING LEVEL ARCHITECT/ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH FURTHER WORK AT THOSE FOOTING LOCATIONS.
- 4. PROTECT FOOTINGS FROM THE ACTION OF WATER OR FREEZING. 5. FOOTINGS ARE CENTERED UNDER WALLS ABOVE - UNLESS OTHERWISE
- 6. PRIOR TO PLACEMENT OF FOOTING CONCRETE, CLEAN FOOTING EXCAVATIONS OF SNOW, WATER AND DEBRIS.
- 7. FOOTINGS MAY NOT BE EARTH FORMED.

#### **EXCAVATION & BACKFILL NOTES:**

- 1. EXCAVATION AND BACKFILL SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- BACKFILL, & COMPACTION SHALL BE INSPECTED AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER. REPORTS ARE TO BE SUBMITTED TO THE
- 3. FOOTING EXCAVATIONS SHALL BE EXCAVATED TO PROPER LINE AND LEVEL TO ENSURE MINIMUM CONCRETE COVER OF FOOTING REINFORCEMENT FOR FOOTING DEPTH.
- 4. BACKFILL SHALL BE COMPACTED BY MECHANICAL MEANS. FLOODING OR WATER INUNDATION SHALL NOT BE PERMITTED.
- . BACKFILL SHALL BE PLACED IN ALTERNATING LIFTS ON EACH SIDE OF THE FOUNDATION WALLS TO MAINTAIN STABILITY OF THE FOUNDATION WALLS.
- . BACKFILL SHALL NOT BE PLACED AGAINST BASEMENT FOUNDATION WALLS UNLESS WALLS ARE ADEQUATELY BRACED TOP AND BOTTOM. FINAL WALL BRACING IS BASEMENT SLAB OR ENGINEERED BACKFILL AND 1ST FLOOR STRUCTURE. IF THESE ELEMENTS ARE NOT IN PLACE AT TIME OF BACKFILL, CONTRACTOR SHALL PROVIDE AN ENGINEERED, TEMPORARY BRACING SYSTEM. THE TEMPORARY BRACING SYSTEM PROPOSED SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER FOR REVIEW PRIOR TO BACKFILLING.

#### CONCRETE NOTES:

- 1. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE "SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI 315 "DETAILS & DETAILING OF CONCRETE REINFORCEMENT" ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 2. CONCRETE MIX DESIGN SHALL BE BY AN INDEPENDENT TESTING
- 3. CAST-IN-PLACE CONCRETE SHALL BE SUBJECT TO TESTING BY AN INDEPENDENT TESTING LABORATORY. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS.
- 4. NON WELDED REINFORCING STEEL SHALL BE GRADE 60 DEFORMED, BILLET-STEEL, ASTM A615, U.O.N. ALL WELDED WIRE FABRIC (WWF) SHALL BE PLAIN, ASTM A185.

5. WELDED REINFORCING STEEL SHALL BE GRADE 60, LOW CARBON, ASTM

OPENING & 2 - #5 BARS AT 3" O.C. BY 3'-0" LONG DIAGONAL BARS AT EACH

OF CORNER. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AT EACH

CORNER. PLACE DIAGONAL BARS CENTERED ON CORNER @ 2" CLEAR

- 6. PROVIDE EXTRA REINFORCEMENT AROUND ALL OPENINGS GREATER THAN 12" SQUARE OR 12" IN DIAMETER, INCLUDING DOOR OPENINGS, IN CONCRETE WALLS & SLABS. PROVIDE 2 - #5 BARS @ 3" O.C., ON EACH SIDE OF THE OPENING EXTENDING 24" BEYOND THE CORNER OF THE
- 7. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH THE ACI 301 (LATEST EDITION).
- 8. PROVIDE ADEQUATE SUPPORT BARS AND ACCESSORIES TO HOLD REINFORCING BARS FIRMLY IN PLACE TO SPECIFIED COVERAGES.
- 9. CONTROL JOINTS SHALL BE PLACED IN A SQUARE PATTERN WITH A MAXIMUM SPACING OF 10' - 0" O.C. FOR 4" THICK SLAB, 12' - 0" O.C. FOR 5" THICK SLAB, 15' - 0" O.C. FOR 6" THICK SLAB. WHERE A SQUARE PATTERN IS NOT POSSIBLE, THE MAXIMUM LONG SIDE TO SHORT SIDE OF THE JOINT PATTERN SHALL NOT EXCEED A RATIO OF 1.5:1. CONSTRUCTION JOINTS SHALL BE LOCATED BY THE CONTRACTOR AS REQUIRED FOR CONSTRUCTION WITH A MAXIMUM OF 3,000 SQUARE FEET.
- 10. CAST DOWELS, WITH STD 90 DEGREE HOOK, IN FOOTINGS FOR CONCRETE PIERS AND WALLS ABOVE. DOWELS SHALL BE THE SAME SIZE AND NUMBER AS THE VERTICAL REINFORCING. (U.O.N.)
- 11. CONCRETE MIX DESIGNS REQUIREMENTS: AGGREGATES SHALL CONFORM TO ASTM C33. - CONCRETE EXPOSED TO FREEZE THAW SHALL HAVE 4.5%-7.5% AIR. - WATER/CEMENT RATIO 0.55 MAX. FOR FOOTINGS AND WALLS, 0.5 MAX. FOR SLABS - NO FLY ASH IN EXPOSED SLABS, 0.25 MAX. FLY ASH/CEMENT RATIO IN ALL OTHER APPLICATIONS - WATER PROOFING ADMIXTURE ADD FOR EXTERIOR EXPOSED CONCRETE.
- 12 AS A BASIS OF DESIGN, INJECTION ADHESIVE ANCHORS SHALL BE SIMPSON "SET-3G" USING STANDARD 36 KSI THREADED RODS (U.O.N.). SEE SPECIFICATIONS FOR USAGE. INSTALL ANCHORS IN STRUCTURÁL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CAST-IN-PLACE CONCRETE COMPRESSIVE STREGNTHS				
TERIOR SLABS ON GRADE (AIR ENTRAINED)	400			
REINFORCING CLEAR CONCRETE COVER				

CONCRETE	ON SOIL				
SLABS ON G	RADE				MIDH
FORMED WA WEATHER: #		CTURAL SLA	BS EXPOSED	TO EARTH OR	
	ALLS & STRU		BS EXPOSED	TO EARTH OR	
	ALLS & STRU		BS NOT EXPO	OSED TO EARTH OR	
BEAMS AND	COLUMNS (C	COVER TO ST	IRRUPS OR	TIES)	
CONC. R	EINFORCIN	NG BAR LAI	SPLICE		
	SCHE	DULE			
	f'c = 3000	f'c = 4000	f'c = 5000		
	1	1	ı	1	

CONC. REINFORCING BAR LAP SPLICE SCHEDULE					
	f'c = 3000	f'c = 4000	f'c = 5000		
	psi.	psi.	psi.		
	CLASS	CLASS	CLASS		
BAR SIZE	"B"	"B"	"B"		
#3	22"	20"	18"		
#4	30"	26"	22"		
#5	36"	32"	28"		
#6	44"	38"	34"		
#7	64"	54"	50"		
#8	72"	62"	56"		
#9	82"	70"	64"		
#10	92"	80"	70"		
#11	102"	88"	78"		

- BAR LAP SCHEDULE NOTES: A. REINFORCING BAR LAP SPLICE SCHEDULE APPLIES TO UNCOATED, GRADE 60
- REINFORCING BAR NORMAL WEIGHT CONCRETE.
- B. PROVIDE CLASS "B" LAP UNLESS OTHERWISE NOTED. FOR EPOXY COATED BAR, MULTIPLY THE NOTED LENGTHS BY 1.5.
- D. FOR LIGHT WEIGHT CONCRETE, MULTIPLY THE NOTED LENGTHS BY 1.3. E. MAXIMUM SPACING OF BARS BEING LAPPED IS ONE FIFTH THE LAP SPLICE LENGTH, NOT TO EXCEED 6".
- F. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT.FOR TOP BARS, MULTIPLY THE NOTED LENGTHS BY 1.3.

#### **WOOD FRAMING NOTES:**

- WOOD AND TIMBER CONSTRUCTION SHALL CONFORM TO PROJECT SPECIFICATIONS AND AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) STANDARDS.
- WOOD CONSTRUCTION SHALL CONFORM TO CHAPTER 23, OF THE INTERNATIONAL BUILDING CODE (UNLESS OTHERWISE NOTED). ALL NAILING SHALL CONFORM TO TABLE 2304.10.1 "FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE UNLESS OTHER REQUIREMENTS NOTED ON THE PLAN ARE MORE STRICT. JOINTS IN LOAD BEARING TOP PLATES SHALL BE OFFSET AT LEAST 48". HOLES IN SAWN LUMBER SHALL BE AS SPECIFIED IN THE INTERNATIONAL BUILDING CODE.
- FRAMING LUMBER SHALL CONFORM WITH THE PROVISIONS OF THE AMERICAN SOFTWOOD LUMBER STANDARD PS-20-70 AND EACH PIECE SHALL BEAR THE GRADE STAMP OF A GRADING AGENCY APPROVED BY THE AMERICAN LUMBER STANDARDS COMMITTEE. ALL FRAMING LUMBER 2" AND LESS IN THICKNESS SHALL BE SEASONED TO A MOISTURE CONTENT OF 19% OR LESS PRIOR TO SURFACING WITH THE INDICATION "S-DRY" ON THE GRADE STAMP.
- FOUNDATION PLATES ON CONCRETE OR MASONRY WALLS FOR ALL STRUCTURAL WALLS SHALL BE AWPA FDN ACQ/AC2 TREATED PLATES OF NO. 2 GRADE MINIMUM. THERE SHALL BE A MINIMUM OF 3 - BOLTS PER PIECE WITH ONE BOLT LOCATED WITHIN 8" OF EACH END OF EACH PIECE. THERE SHALL BE NO SILL SPLICE UNDER ANY POST
- STUD WALLS TO BE CONSTRUCTED WITH CONTINUOUS TREATED SILL PLATE AND WITH DOUBLE TOP PLATE. SEE STANDARD DETAILS FOR TOP SPLICE CONNECTION
- 6. BUILT UP MEMBERS, COLUMNS, BEAMS AND DOUBLE JOISTS SHALL BE CONNECTED WITH TWO ROWS 0.148 x 3" LONG NAILS AT 12" O.C. STAGGERED, UNLESS OTHERWISE
- 7. WHERE POSTS ARE CALLED OUT, HEADERS SHALL BEAR FULLY ON POSTS. ALL 2x HEADERS & BEAMS SHALL HAVE 3 SUPPORT STUDS (1 - KING BOARD & 2 - JACK
- STUDS) UNLESS REQUIREMENTS NOTED ON PLAN ARE MORE STRICT. 9. ALL JOISTS, ROOF BEAMS AND GIRDERS SHALL HAVE FULL HORIZONTAL BEARING OF THE MEMBER OVER SUPPORT UNLESS OTHERWISE SHOWN. DO NOT OVERCUT.
- 10. NO NOTCHING OF STUDS, JOISTS, RAFTERS, BEAMS OR TRUSSES IS PERMITTED WITHOUT THE ENGINEERS APPROVAL. HOLES BORED IN THE STUD OR JOIST SHALL BE IN THE MIDDLE ONE-THIRD OF THE DEPTH AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-FOURTH THE DEPTH WITHOUT REINFORCEMENT. AS A BASIS OF DESIGN, HOLES EXCEEDING ONE-FOURTH THE DEPTH SHALL HAVE A SIMPSON "HSS" STUD SHOE APPLIED TO THE STUD.
- 11. CONTRACTOR TO PROVIDE DIAGONAL BRACING AT STUD WALLS TO PREVENT RACKING DURING CONSTRUCTION.
- 12. AS A BASIS OF DESIGN, PROVIDE EITHER SIMPSON "DTC" CLIP OR SIMPSON "SDPW" DEFLECTOR SCREW AT EACH FLOOR AND ROOF TRUSS OR BLOCKING @ 2'-0" O.C FOR NON-BEARING WALL CONNECTION.
- 13. ALL FASTENERS THAT ARE 1/4" DIAMETER OR GREATER REQUIRE PREDRILLED HOLES. 14. HANGERS FOR DIMENSIONAL LUMBER REFRENCED IN FRAMING DETAILS SHALL MATCH

THE MAXIMUM SIZE OF CONNECTING FRAMING MEMBER.

DIMENSIONAL LUMBER DESIGN PROPERTIES				
DF-L. #2 OR BETTER	BENDING	Fb = 900 psi		
	SHEAR	Fv = 180 psi.		
	COMPRESSION PARALLEL TO GRAIN	Fc = 1350 ps		
	COMPRESSION PERPENDICULAR TO GRAIN	Fc = 625 psi		
	MODULUS OF ELASTICITY	E = 1600 ksi		

FLOOR LIVE LOADS		
	LOBBIES AND FIRST FLOOR CORRIDORS	10
ROOF LIVE LOADS:		
	ROOF SNOW	Pf = 3
	IMPORTANCE FACTOR	ls
	EXPOSURE FACTOR	Ce
	THERMAL FACTOR	Ct
	GROUND SNOW LOAD	Pg = 5
	CONSTRUCTION LOADING	2
	LIVE LOAD	2
DEAD LOADS		
	TYPICAL ROOF	DL = 2
LATERAL LOADS (WIND - MSFRS)		
·	IMPORTANCE FACTOR	
	ULTIMATE WIND SPEED (3 SECOND GUST)	111
	NOMINAL WIND SPEED	86
	RISK CATEGORY	
	WIND EXPOSURE	
	INTERNAL PRESSURE COEFF	+/-
	COMPONENTS CLADDING BASE PRESSURE	23.

### VERTICAL STRUCTURAL PANEL SHEATHING NOTES:

1. FASTENERS SHALL NOT BE LOCATED LESS THAN 3/8" IN FROM THE EDGE OF THE

**VERTICAL GENERAL:** 

- 2. FASTENERS SHALL BE DRIVEN FLUSH WITH SURFACE OF SHEATHING.
- 3. FASTENERS SHALL BE OF SUFFICIENT LENGTH TO ENSURE PENETRATION INTO FRAMING MEMBERS BY AT LEAST 1 1/2" INTO WOOD FRAMING.
- 4. NO SHEATHING PANEL LESS THAN 1'-0" WIDE SHALL BE USED.
- 5. SHEATHING PANEL EDGES SHALL BUTT ALONG THE CENTERLINE OF A COMMON 6. IN THE PRE-FABRICATED WALL PANEL APPLICATION, ALL ADJACENT WALL PANEL
- EDGES THAT DO NOT SHARE A COMMON FRAMING MEMBER OF ADJOINED WALL PANELS FASTENED TOGETHER WITH ONE ROW OF STAGGERED 10D NAILS @ 6" ON CENTER FROM BOTH SIDES. 7. ALL PANEL EDGES SHALL BE FULLY BLOCKED. WHERE HORIZONTAL STRAP

BLOCKING IS USED, IT SHALL BE A MINIMUM 1 1/2" WIDE & OF THE SAME

**VERTICAL WOOD SHEATHING:** 

MATERIAL & THICKNESS AS THE TRACK & STUDS.

- 1. BLOCK ALL SHEATHING PANEL EDGES.
- A 32/16 SPAN RATING (U.O.N.).

2. PANEL SHEATHING SHALL BE\_7/16" APA EXPOSURE 1, RATED SHEATHING WITH

- 3. FRAMING SPACING TO BE MAXIMUM 1'-4" O.C. UNLESS SPECIFIC NOTES AND / OR DETAILS ARE MORE STRICT.
- 4. WOOD FRAMING SHEATHING FASTENERS SHALL BE A MINIMUM 0.131" DIA. x 2 1/2" LONG COMMON NAILS OR GALVANIZED BOX NAILS (GALVANIZED NAILS SHALL BE HOT-DIPPED OR TUMBLED). SEE VERTICAL GENERAL NOTE #3 FOR
- 5. OFFSET SHEATHING PANEL JOINTS ON EACH SIDE OF WALL MINIMUM ONE
- 6. SHEATHING PANELS MAY BE INSTALLED EITHER PARALLEL OR PERPENDICULAR TO FRAMING.
- 7. SPACE FASTENERS @ 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS (FIELD OF PANEL); SPACE FASTENERS @ 6" O.C. ALONG ALL EDGE FRAMING MEMBERS (SUPPORTED EDGES) (U.O.N.).
- 8. EACH SHEATHING PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD (psi). APPLICATION AND NAILING OF PLYWOOD SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION & TABLE 2304.10.1 "FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE UNLESS OTHER

REQUIREMENTS NOTED ON THE PLAN ARE MORE STRICT.

#### HORIZONTAL STRUCTURAL PANEL SHEATHING NOTES: HORIZONTAL GENERAL:

- 1. FASTENERS SHALL NOT BE LOCATED LESS THAN 3/8" IN FROM THE EDGE OF THE SHEATHING PANEL.
- 2. FASTENERS SHALL BE DRIVEN FLUSH WITH SURFACE OF SHEATHING.
- 3. FASTENERS SHALL BE OF SUFFICIENT LENGTH TO ENSURE PENETRATION
- INTO FRAMING MEMBERS BY AT LEAST 1 1/2" INTO WOOD FRAMING.
- 4. NO UNBLOCKED PANELS LESS THAN 1'-0" WIDE SHALL BE USED.
- SHEATHING PANEL EDGES SHALL BUTT ALONG THE CENTERLINE OF A COMMON FRAMING MEMBER

#### HORIZONTAL WOOD SHEATHING:

- 1. PANEL ROOF SHEATHING SHALL BE 1/2" APA EXPOSURE 1, RATED SHEATHING WITH A 32/16 SPAN RATING (U.O.N.).
- PANEL FLOOR SHEATHING SHALL BE 3/4" APA EXPOSURE 1, RATED PLYWOOD WITH A 48/24 SPAN RATING (U.O.N.).
- WOOD FRAMING SHEATHING FASTENERS SHALL BE A MINIMUM 0.148" DIA. x 3" LONG COMMON NAILS. SEE HORIZONTAL GENERAL NOTE #3 FOR LENGTH.
- 4. FLOOR/ ROOF PANEL SHEATHING SHALL BE CONTINUOUS OVER 2 OR MORE SUPPORTS (MINIMUM).
- 5. FLOOR/ ROOF PANEL SHEATHING SHALL BE ORIENTED WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTS.
- 6. TONGUE & GROOVE EDGES, PANEL EDGE CLIPS (1 MIDWAY BETWEEN EACH SUPPORT), OR BLOCKING SHALL BE USED @ ALL UNSUPPORTED EDGES.
- SPACE FASTENERS @ 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS (FIELD OFSHEATHING PANEL); SPACE FASTENERS @ 6" O.C. ALONG ALL SHEATHING PANEL EDGE FRAMING MEMBERS (SUPPORTED EDGES) (U.O.N.).
- EACH SHEATHING PANEL SHALL BE IDENTIFIED WITH THE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD (psi). APPLICATION AND NAILING OF PLYWOOD SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION & TABLE 2304.10.1 "FASTENING SCHEDULE" OF THE INTERNATIONAL BUILDING CODE UNLESS OTHER REQUIREMENTS NOTED ON THE PLAN ARE MORE STRICT.

### **ENGINEERED WOOD NOTES:**

- 1. POSTS AND BEAMS CONSTRUCTED OF MULTIPLE LAMINATED VENEER LUMBER MEMBERS SHALL BE FASTENED TOGETHER ACCORDING TO MANUFACTURER'S
- 2. LAMINATED WOOD FABRICATOR SHALL BE AN "AITC" MEMBER AND SHALL

RECOMMENDATIONS. SEE DETAIL 2/S401.

- FABRICATE ACCORDING TO "AITC" SPECIFICATIONS.
- 3. LAMINATED WOOD SUPPLIER SHALL FURNISH ALL HANGERS, HARDWARE & ACCESSORIES FOR ALL CONNECTIONS ASSOCIATED W/ LAMINATE WOOD MEMBERS (U.O.N.).
- 4. SEE ARCHITECTURAL DETAILS AND SPECIFICATIONS FOR MATERIAL TYPE AND FINISHES, UNLESS OTHERWISE NOTED.
- 5. ALL LAMINATED FRAMING MEMBERS ARE SPECIFIED AS DOUG-FIR OMBINATION 24FV4, - SOUTHERN-PINE COMBINATION 24FV3 MAY BE USED WITH EQUIVALENT DESIGN VALUES & SECTION PROPERTIES.
- 6. STRUCTURAL STEEL SUPPLIER SHALL FURNISH ALL REMAINING WOOD TO STEEL CONNECTIONS, HANGERS AND HARDWARE WHICH ARE REQUIRED TO COMPLETE THE ERECTION OF THE LAMINATED WOOD.
- 7. LAMINATED WOOD MANUFACTURER AND STRUCTURAL STEEL SUPPLIER SHALL COORDINATE ALL CONNECTION DETAILS PRIOR TO FABRICATION.
- 8. PROVIDE STANDARD CAMBER AT ALL ROOF BEAMS AND PURLINS.

<b>ENGINEERED WOOD MEMBER DESIGN PROPERTIES:</b>			
VL MEMBERS	BENDING	Fb = 2600 psi.	
	SHEAR	Fv = 285 psi.	
	COMPRESSION PARALLEL TO GRAIN	Fc = 2510 psi.	
	COMPRESSION PERPENDICULAR TO GRAIN	Fc = 750 psi.	
	MODULUS OF ELASTICITY	E =2000 ksi.	

### BID DOCUMENT SUBMISSION

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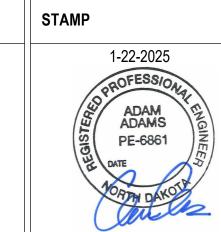
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