PLUMBING GENERAL NOTES

SEE ALL PROJECT GENERAL NOTES AND OTHER REQUIREMENTS INCLUDING THE LIFE SAFETY AND INFECTION CONTROL REQUIREMENTS LOCATED WITHIN THE GENERAL DRAWINGS SECTION. COMPLY WITH ALL REQUIREMENTS AS THEY ARE A DIRECT PART OF THIS SECTION AND AS IF THEY WERE DIRECTLY INCLUDED AND PROVIDED BELOW

EQUIVALENCY SUBSTITUTIONS: THE "BASIS OF DESIGN (BOD) PROTOCOLS" ARE TO BE FOLLOWED FOR ALL EQUIPMENT, MATERIALS AND ASSEMBLIES SPECIFIED AND DETAILED THROUGHOUT ALL DRAWINGS AND SPECIFICATION SECTIONS, WHETHER THE BOD DESIGNATE IS SPECIFICALLY REFERENCED THEREIN OR NOT. SEE THE GENERAL DRAWINGS SECTION FOR THE FULL BOD EQUIVALENCY SUBSTITUTION REQUIREMENTS AND PROTOCOLS TO BE FOLLOWED.

- THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS: INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS AND ENTIRE PROJECT SPECIFICATIONS. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HIS/HER WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK.
- THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE VA/CO AT ONCE. IN WRITING. OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK. OR BETWEEN THEIR WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE VA/GOVERNMENT.
- THE CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, THE WORK SHOWN ON THE DRAWINGS AND PROVIDED IN THE SPECIFICATIONS WITHOUT DEVIATION, WITH THE EXCEPTION OF ANY BASIS OF DESIGN (BOD) EQUIVALENCY SUBSTITUTIONS. THESE REQUESTED SUBSTITUTIONS WILL NEED TO BE IDENTIFIED, SUBMITTED AND APPROVED BY THE VA/CO AND SHALL BE IN FULL COMPLIANCE WITH THE BASIS OF DESIGN COMPLIANCE PROTOCOLS. SEE GI001.
- THIS CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM. WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED OR INSTALLED ON THE DRAWINGS, THE DRAWING'S TRADE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR PROVIDING A COMPLETE OPERATING SYSTEM FOR THIS ITEM.
- WHEN PERFORMING ANY CUTTING OR PATCHING (RESTORE TO ORIGINAL STATE) ALL BUILDING MATERIALS AND FINISHES AS REQUIRED TO PROVIDE A FINISHED PRODUCT THAT IS LIKE NEW AND DOESN'T STAND OUT AS BEING DIFFERENT OR DISTINGUISHABLE AS A PATCH OR REPAIR.
- THIS CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN AS REQUIRED BY THE VA DESIGN GUIDES/MANUALS ALONG WITH THE EXPRESSED DESIGN INTENT PRESENTED WITHIN THESE DOCUMENTS.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND THROUGH FLOORS, INCLUDING CORING IF REQUIRED. LOCATIONS SHALL BE PROVIDED ON THE CONTRACTOR SHOP DRAWING SUBMITTALS.
- PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING SANITARY, STORM AND WATER SUPPLY ON THE SITE PRIOR TO THE PERFORMANCE OF ANY WORK.
- PROVIDE SERVICE VALVES AT ALL BRANCH SUPPLY PIPING. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND IN KEEPING WITH THE VA STANDARDS AND REQUIREMENTS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT GOVERNING LOCAL, COUNTY, STATE, AND FEDERAL BUILDING CODE REQUIREMENTS AND REGULATIONS PLUS COMPLIANCE WITH LOCAL UTILITY COMPANY
- THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP.

AND VA REQUIREMENTS.

- THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF ALL PERSONNEL THRU ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
- THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT AND MATERIALS FURNISHED BY THIS CONTRACTOR ALONG WITH EQUIPMENT FURNISHED BY THE VA AND INSTALLED BY THIS CONTRACTOR. PROVIDE PROTECTION FROM DAMAGE BY THE CONSTRUCTION, HANDLING, VANDALISM AND WEATHER DURING ALL PHASES OF CONSTRUCTION UNTIL COMPLETION OF THE WORK.
- THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN THE NUMBERS REQUIRED BY THE SPECIFICATIONS PRIOR TO THE START OF INSTALLATION FOR VA/COR APPROVAL AND A SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER.
- THIS CONTRACTOR SHALL FURNISH AS-BUILT CONTRACT DOCUMENTS TO THE VA/COR BEFORE FINAL PROJECT CLOSE-OUT CAN OCCUR. THE CONTRACT RECORD AS-BUILT DOCUMENTS SHALL BE PROVIDED IN ELECTRONIC
- BEFORE PLACING WATER SYSTEM IN OPERATION, CHLORINATE ENTIRE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE DIRECTIONS PROVIDED IN THE SPECIFICATIONS, AS NOTED UNDER "PLUMBING MATERIALS AND PROCEDURES" ON THIS SHEET, AND IN CONJUNCTION WITH APPLICABLE PLUMBING CODES. MINIMUM REQUIREMENTS SHALL BE AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND STERILIZE THE INTERIOR DOMESTIC WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH AWWA C651.USE LIQUID CHLORINE OR HYPOCHLORITE FOR STERILIZATION. MEET REQUIREMENTS OF THE VA, BOTH FEDERAL AND LOCAL WHEN PROPERLY COMPLETED AND APPROVED BY THE VA/COR PROVIDE THE SPECIFIED CERTIFICATION(S).

- ALL NEW SANITARY PIPING SHALL BE GIVEN A FULL STATIC PRESSURE TEST. METHOD OF TEST AND REQUIREMENTS TO BE MET SHALL BE AS PER THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL CODE REQUIREMENTS ALONG WITH ALL REQUIREMENTS OF THE VA, BOTH FEDERAL AND
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PUMPING AND DRAINING OF TRENCHES OR PITS NECESSARY FOR THE INSTALLATION OF THEIR WORK.
- UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF THEIR WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY, LEAVE THE WORK IN NEAT AND CLEAN ORDER, AND PROVIDE A COMPLETED SYSTEM(S) THAT HAS BEEN FULLY TESTED AND IS IN GOOD WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS
- 21. ALL EQUIPMENT/DEVICES SHALL BE AND OF FIRST RATE QUALITY (UNLESS OTHERWISE SPECIFIED) AND IS TO BEAR THE APPROPRIATE NSF, AGA, CSA OR UL APPROVED LABELS, LISTINGS, AND CERTIFICATIONS FOR THE SPECIFIC DESIGN PURPOSE.
- THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS OF DESIGN. BEFORE THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE PROTOCOLS REQUEST FOR EQUIVALENCY SUBMISSION AND APPROVAL PROCESS THAT NEEDS TO BE COMPLETED SUCCESSFULLY BEFORE SUCH A SUBSTITUTION WILL BE ALLOWED TO OCCUR AND BE SUBMITTED VIA THE SHOP DRAWING PROCESS. AS PART OF THAT PROCESS THE REQUESTING CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL BE RESPOSIBLE FOR ANY AND ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE V.A. CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ALL ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED. SEE FULL BASIS OF DESIGN COMPLIANCE PROTOCOLS ON GI001
- GENERAL CONTRACTOR MUST FIELD VERIFY SIZES, CAPACITIES, WEIGHTS, ETC. ON ALL EQUIPMENT. DISCREPANCIES FROM THE ORIGINAL BASIS OF DESIGN ON THE DRAWINGS WILL NOT CONSTITUTE A BASIS FOR CHANGE ORDERS. VERIFY WITH VA/COR FOR ANY AND ALL DISCREPANCIES IF THEY EXIST.
- IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY AND QUALITY OF WORK, AS DETERMIONED BY THE GOVERNMENT/CO/COR, SHALL BE PROVIDED.
- PROVIDE AND INSTALL CLEANOUTS IN FLOORS, WALLS, AND ON HORIZONTAL AND VERTICAL SANITARY AND STORM BUILDING DRAINS AS REQUIRED BY THE PLUMBING CODE AND GOOD STANDARD PRACTICE AT CHANGES OF DIRECTION, END OF PIPING RUNS, AND AT A MAXIMUM DISTANCE OF 50'-0", ON CENTER. CLEANOUTS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS, OR WHERE INSTALLED BEHIND WALLS OR IN CRAWL SPACES SHALL BE PROVIDED WITH CLEANOUT ACCESS PANELS.

DISCIPLINE SPECIFIC

- DISINFECTION OF POTABLE WATER SYSTEM SHALL BE AT THE VERY MINIMUM AS DESCRIBED BELOW IN ITEMS A THRU D, OR THE MOST AGRESSIVE SYSTEM REQUIRED BY THE FOLLOWING FOR CITED AUTHORITIES: NEW POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652 LISTED IN CHAPTER 19. AND AS DESCRIBED IN THE VA SPECIFICATION SECTION. THIS REQUIREMENT SHALL APPLY TO "ONSITE" OR "IN-PLANT" FABRICATION OF A SYSTEM OR TO A MODULAR PORTION OF A SYSTEM.
 - THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET

PLUMBING MATERIALS AND PROCEDURES NOTES

PROCEDURES:

EQUIPMENT CONNECTIONS.

FROM FREEZING.

FROM PARAPET.

MAIN STACK.

AND UNDER.

FIRE RATED ASSEMBLIES.

WHERE DRAINS SHALL BE INSTALLED.

ALL SUPPLY PIPING TO BE A MINIMUM OF 3/4" DIA.

10. EACH FIXTURE WILL HAVE A 1/2" X 12" AIR CHAMBER.

FEDERAL CODES AND REGULATIONS.

11. PROVIDE SERVICE VALVE AT BRANCHES AND AT ALL APPLIANCES.

12. ALL FIXTURES WILL BE FURNISHED WITH INTEGRAL STOPS.

ALL SUSPENDED HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS SPACED NO FURTHER

THAN AS DIRECTED BY THE PLUMBING CODE FOR THE PIPING MATERIAL, PIPING SYSTEM SERVICED,

OR DETAILED ON THE PLANS. NO PIPING SHALL BE SELF-SUPPORTING NOR BE SUPPORTED FROM

PIPING SYSTEMS UNLESS PIPE REQUIRES FIRM ANCHOR CONTROL.

ALL SUPPLY PIPING TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.

- THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION AT LEAST 50 PARTS PER MILLION (50 mg/l) OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS; OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER CHLORINE SOLUTION AT LEAST 200 PARTS PER MILLION (200mg/l) OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING THE REQUIRED
- THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE
- THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.
- PIPING SERVICE MARKING:
- VINYL CLOTH PRESSURE SENSITIVE MARKERS BLACK LETTER ON WHITE BACKGROUND PIPES 3" AND LARGER SPACING 30'-0" O.C. PIPES 2 1/2" AND SMALLER SPACING 20'-0" O.C.
- INSTALL DIRECTIONAL ARROWS ON ALL PIPING AT SAME SPACING.

STANDING TIME, THE SYSTEM SHALL BE FLUSHED.

- CONTRACTOR TO VERIFY IN FIELD AND PROVIDE EXTENSIONS REQUIRED TO ADJUST ALL FIXTURES TO GRADE LEVEL TO MAINTAIN INVERTS AS DETERMINED BY ALL FIXTURES RELATED (GREASE TRAPS, MAN HOLES, ETC.).
- PROVIDE EXTERIOR ACCESS TO ISOLATION VALVES FOR HOT AND COLD WATER SUPPLY CUTOFF.

MATERIALS

- ALL MATERIALS SHALL BE NEW OF FIRST QUALITY AND UL LISTED FOR THE SPECIFIC DESIGN PURPOSE.
- SANITARY, VENT, AND STORM LINES SHALL BE SCHEDULE 40 CAST IRON OR COPPER PIPE.
- 3. NOT USED.
- THREADED FITTINGS ON GALVANIZED STEEL PIPING SHALL BE 150# CLASS GALVANIZED MALLEABLE IRON FITTING CONFORMING TO ASTM A-197 SPECIFICATION.
- FURNISH AND INSTALL UNIONS WHERE INDICATED OR AS DEEMED NECESSARY FOR REPAIR OR SERVICE. UNIONS 2" AND SMALLER SHALL BE STANDARD GROUND JOINT BRASS TO IRON SEAT, MALLEABLE IRON, SCREWED. UNIONS 2-1/2" AND LARGER SHALL BE STANDARD CAST IRON FLANGED UNIONS 125# CLASS.
- DOMESTIC HOT WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH ONE OF THE FOLLOWING: 1" THICK PREFORMED FIBERGLASS WITH "K" FACTOR OF 0.23 MAXIMUM AT 75°F. MEAN TEMPERATURE. JACKET TO
 - BE FACTORY APPLIED KRAFT PAPER WITH VAPOR BARRIER.
- 1" THICK MOLDED RIGID PHENOLIC FOAM WITH "K" FACTOR OF 0.23 MAXIMUM AT 78°F MEAN TEMPERATURE WITH FACTORY APPLIED LAMINATED ALUMINUM FOILAND WHITE KRAFT PAPER VAPOR BARRIER JACKET.
- DOMESTIC COLD WATER PIPING SHALL BE INSULATED WITH:
- 1/2" THICK INSULATION FOR PIPING UP TO 1-1/4" DIAMETER. 1" THICK INSULATION FOR PIPING LARGER THAN 1-1/2" DIAMETER.
- HANGERS SHALL BE OF STANDARD WEIGHT STEEL OR IRON ROD AND RING OR CLEVIS TYPE. SEE DETAIL.

8. ALL EQUIPMENT DEVICES SHALL BE INSTALLED WITH UNIONS IN SUCH A MANNER TO FACILITATE. EASY REMOVAL AND MAINTENANCE OF EQUIPMENT WITHOUT DISRUPTING SERVICE AND CAUSING MAJOR PIPING REVISIONS.

PLUMBING FIXTURE SCHEDULE

- THE PLUMBING FIXTURE AND EQUIPMENT SCHEDULE. IN GENERAL. SPECIFIES THE PLUMBING FIXTURES, EQUIPMENT AND DEVICES: HOWEVER, UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL BE PROVIDED WITH APPLICABLE ACCESSORIES (SUCH AS SUPPLY STOPS, WASTE TRAPS, FIXTURE MOUNTING SUPPORTS, BOLT CAPS, WATER CLOSET SEATS, ETC., AS REQ'D TO COMPLETE THE INSTALLATION.)
- ALL ITEMS SPECIFIED HEREAFTER SHALL BE NEW, CLEANED AND ADJUSTED FOR THE SPECIFIED DESIGN PURPOSE (UNLESS OTHERWISE SPECIFIED).
- ALL EQUIPMENT AND DEVICES SHALL BEAR A.G.A., N.S.F., ASME, C.S.A. OR U.L. APPROVED LABELS AND CERTIFICATIONS FOR THE SPECIFIED DESIGN PURPOSE.
- LOCATIONS AND MOUNTING HEIGHTS REQUIRED FOR THE DESIGN PURPOSE. SUBMIT, AS PER THE SPECIFICATIONS, THE NUMBER OF COPIES OF EACH CATALOG CUT, FOR EACH
- ITEMS SPECIFIED HEREAFTER. THE CONTRACTOR SHALL SUBMIT EQUIPMENT PRODUCT DATA FOR EACH PIECE OF EQUIPMENT PRIOR TO ORDERING. SUBMIT, AS PER THE SPECIFICATIONS. THE NUMBER OF COPIES FOR APPROVAL BY THE VA/COR THIS CONTRACTOR SHALL ALSO ASSEMBLE PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED AND BIND TOGETHER WITH EQUIPMENT CUTS AND
- CONTROL WIRING DIAGRAMS. DO NOT SUBMIT EQUIPMENT DATA FOR B.O.D. EQUIVALENCY SUBSTITUTION ITEMS UNTIL SUCH TIME AS THE B.O.D. PROTOCOLS PROCESS HAS BEEN COMPLETED AND THE SUBSTITUTION HAS BEEN APPROVED BY BOTH THE CO AND COR.

ALL PARALLEL PIPES (TWO(2) OR MORE) SHALL BE SUPPORTED ON A CHANNEL TYPE TRAPEZE B.F.F. SUPPORTS AND HANGERS SHALL BE INSTALLED TO PERMIT FREE EXPANSION AND CONTRACTION IN HORIZONTAL SOIL OR WASTE LINES SHALL BE AT A SLOPE OF NOT LESS THAN 1/8" PER FOOT AND SHALL BE HELD CLOSE TO THE CONSTRUCTION TO MAINTAIN A MAXIMUM OF HEAD ROOM. ALL CW CHANGES OF DIRECTION AND JUNCTIONS SHALL BE MADE WITH "Y" FITTINGS AND 1/8" BENDS. NO LINES OF ANY KIND SHALL BE LOCATED BELOW FREEZERS. ALL DRAIN LINES SHALL BE PROTECTED HOT AND COLD WATER PIPING SHALL BE PROPERLY PITCHED TO LOW POINTS IN THE SYSTEM CLEANOUTS SHALL BE PLACED AT ALL DEAD ENDS, AT CHANGES OF DIRECTION, AT 50'-0" INTERVALS ON HORIZONTAL RUNS, OUT OF HIGH TRAFFIC AREAS, (NOT UNDER CASES) ETC. WHERE CLEANOUTS OCCUR IN CONCEALED SPACES, THEY SHALL BE PROVIDED WITH EXTENSIONS TO FLOOR ABOVE OR TO WALLS. A HAND-HOLE TEST TEE SHALL BE PLACED AT THE BASE OF EACH STACK. VENT STACKS EXTENDING UP THROUGH THE ROOF SHALL BE FLASHED WITH SIX POUND SHEET LEAD. FLASHING SHALL EXTEND 12" IN ALL DIRECTIONS FROM THE VENT, CARRIED OVER AND HWR TURNED DOWN THE INSIDE OF THE VENT. ALL SEAMS AND JOINTS OF FLASHING SHALL BE 105R SOLDERED AND PROVEN WEATHERTIGHT. EXTEND VENTS A MIN. OF 12" ABOVE ROOF, AND 30" AWAY 140R E.O.R. 13. ALL FLOOR DRAINS AND FIXTURES TO BE VENTED IN ACCORDANCE WITH ALL LOCAL, STATE AND 14. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FINISHED CEILINGS AND SLOPED UP TOWARD 15. THE PLUMBING CONTRACTOR WILL NOT INSTALL COMBUSTIBLE PIPING MATERIAL IN OR THROUGH 16. HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" DIA. HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THEN 1/8" PER FOOT FOR PIPING 4" DIA. 105TWC WCO

TEMPERED WATER CIRCULATION RETURN WATER CLOSET WATER HAMMER ARRESTER

RISER UP

REDUCER OR INCREASER

SIDE CONNECTION

CAPPED OUTLET

FLOOR CLEAN OUT

WALL CLEAN OUT

DIELECTRIC UNION

SHUT-OFF VALVE

BUTTERFLY VALVE

BALL VALVE

STRAINER

TOP CONNECTION, 45° OR 90°

BOTTOM CONNECTION, 45° OR 90°

POINT OF CONNECTION (TO EXISTING)

POINT OF DEMOLITION (OF EXISTING)

CHECK VALVE (DIRECTION OF FLOW)

TEMPERATURE/PRESSURE BALANCING MIXING VALVE

PRESSURE REDUCING VALVE

PLUMBING EQUIPMENT TAG

KITCHEN EQUIPMENT TAG

THERMOSTATIC VALVE (HOT WATER RETURN)

PLUMBING SYMBOL LIST

SYMBOL DESCRIPTION

ARCHITECT / ENGINEER

ARCHITECT OF RECORD

ABOVE FINISH FLOOR

BACKFLOW PREVENTER

BELOW FINISHED FLOOR

CHEMICAL RESISTANT PIPE

CAST IRON (PIPE)

CLEANOUT

COLD WATER

ACCESS PANEL

- PLUMBING CONTRACTOR SHALL VERIFY IN FIELD WITH VA/COR ALL FINAL FIXTURE AND EQUIPMENT
- ITEM, TO BE APPROVED BY THE VA/COR (PRIOR TO THE BEGINNING OF CONSTRUCTION) FOR ALL NEW

GREASE WASTE PIPE HOSE BIBB HOT WATER 140° HOT WATER 105° HOT WATER HOT WATER RETURN 105° HOT WATER RETURN 140° HOT WATER RETURN **ENGINEER OF RECORD ELEVATION EXISTING** FLOOR CLEANOUT FLOOR DRAIN **GLYCOL SUPPLY GLYCOL RETURN** LAVATORY MOP BASIN NATURAL GAS NATURAL GAS VENT SANITARY SOIL SINK SHOWER TRENCH DRAIN WALL CLEANOUT EXISTING PIPING TO BE DEMOLISHED **COLD WATER PIPING** HOT WATER PIPING HOT WATER RETURN PIPING RISER DOWN

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FCO **D**——

DRAWING SYMBOLS

PL105 — DRAWING NUMBER WHERE DRAWN

CONSULTANT **ISSUE FOR BID** 01-16-24 Revisions:

ARCHITECT/ENGINEER OF RECORD | STAMP 3300 Dundee RD. Northbrook, IL 60062

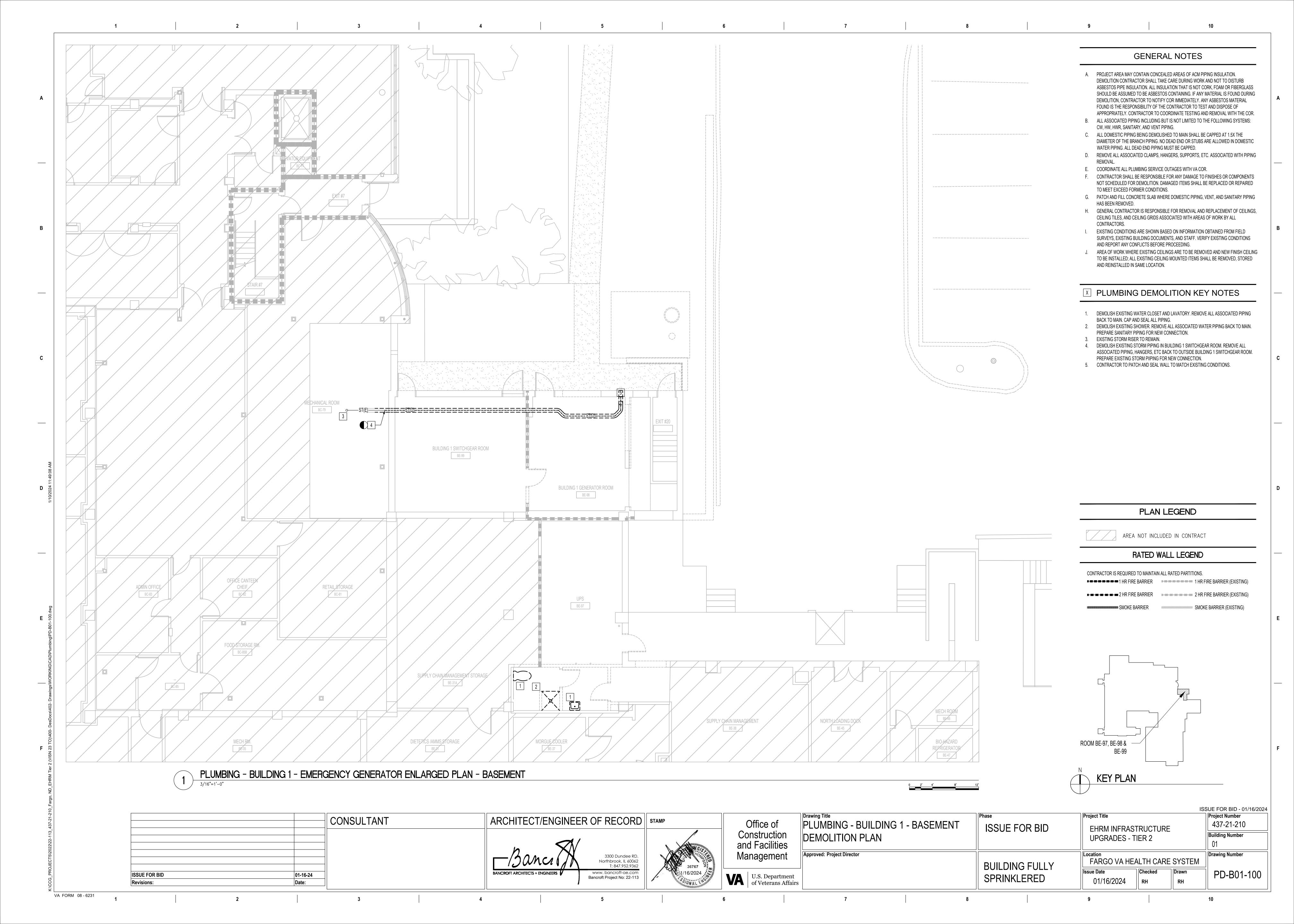
T: 847.952.9362 www. bancroft-ae.com

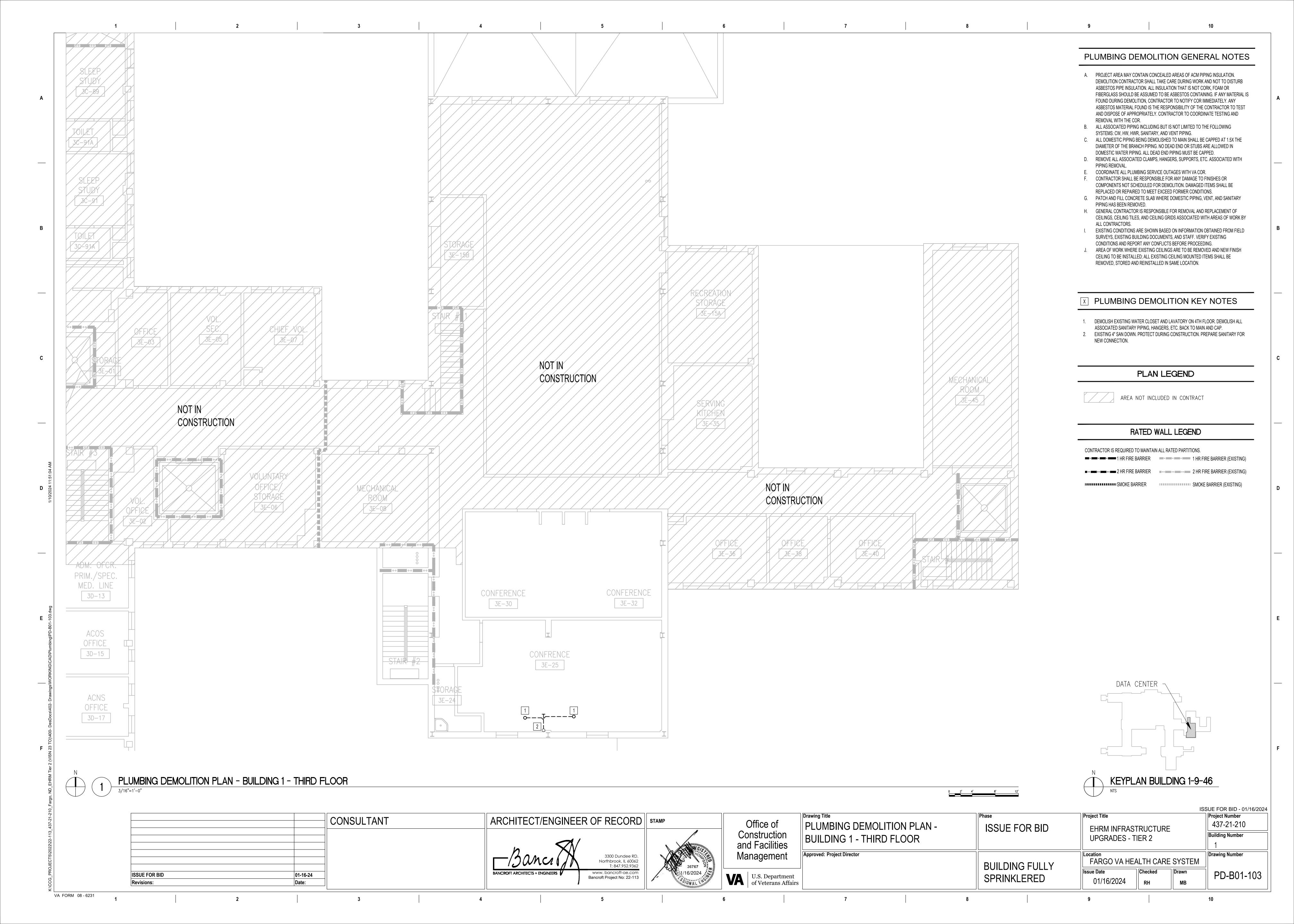
Office of Construction and Facilities Management U.S. Department U.S. Department of Veterans Affairs

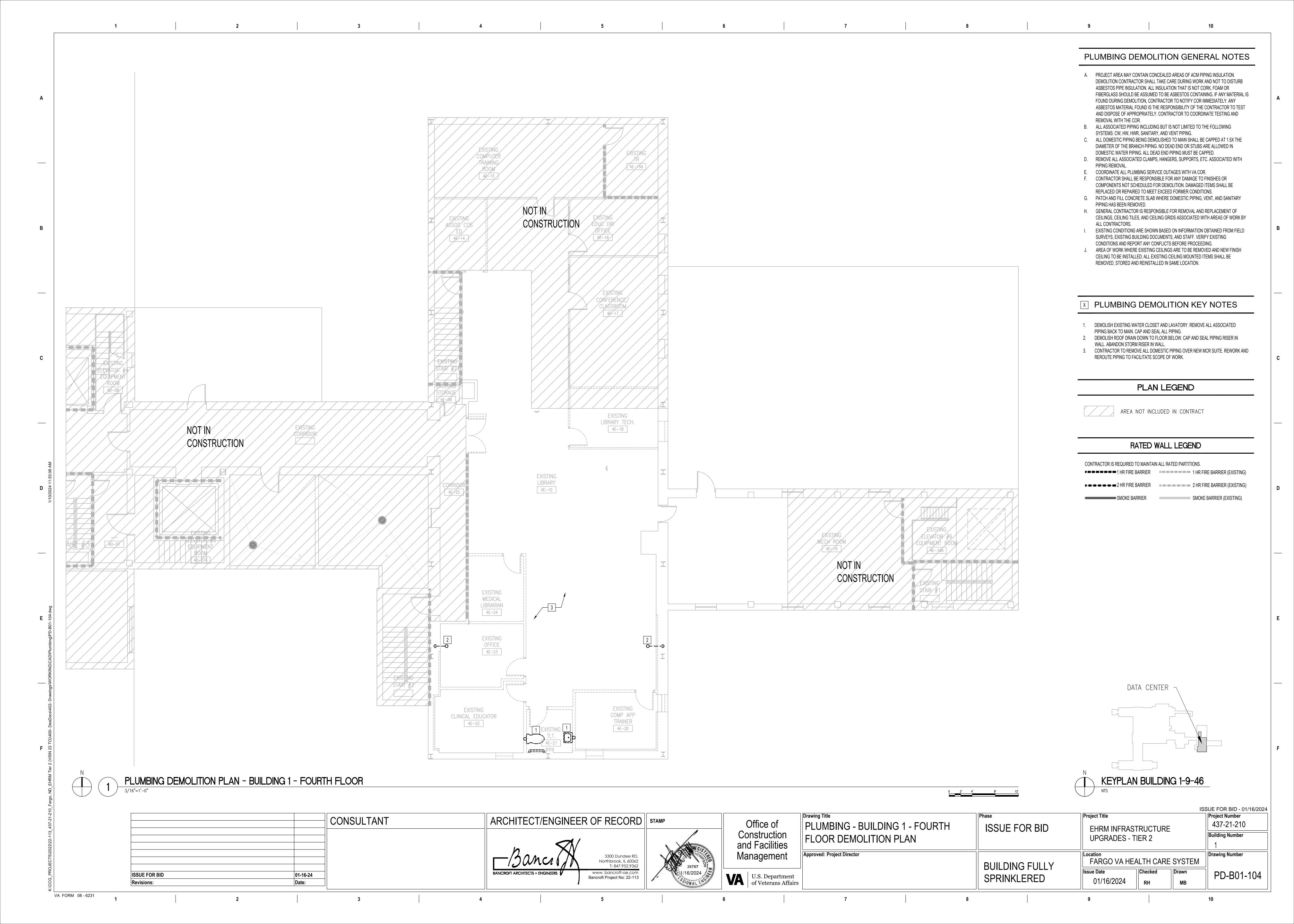
ISSUE FOR BID - 01/16/2024 **Project Number Project Title** PLUMBING GENERAL NOTES, 437-21-210 ISSUE FOR BID EHRM INFRASTRUCTURE **Building Number** ABBREVIATIONS, AND LEGEND UPGRADES - TIER 2 1-9-46 Drawing Number Approved: Project Director FARGO VA HEALTH CARE SYSTEM **BUILDING FULLY** P-001 **SPRINKLERED** 01/16/2024 RH

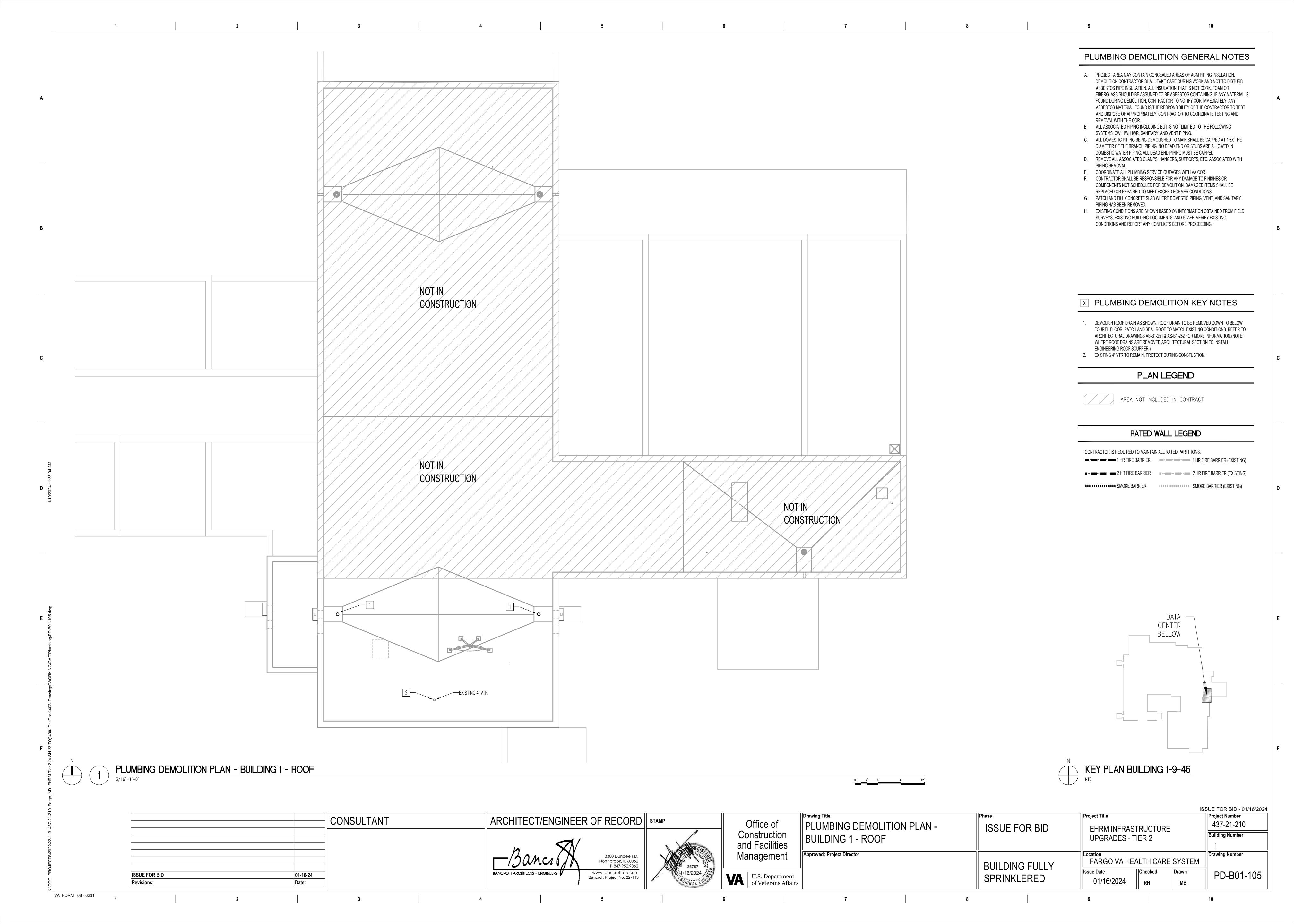
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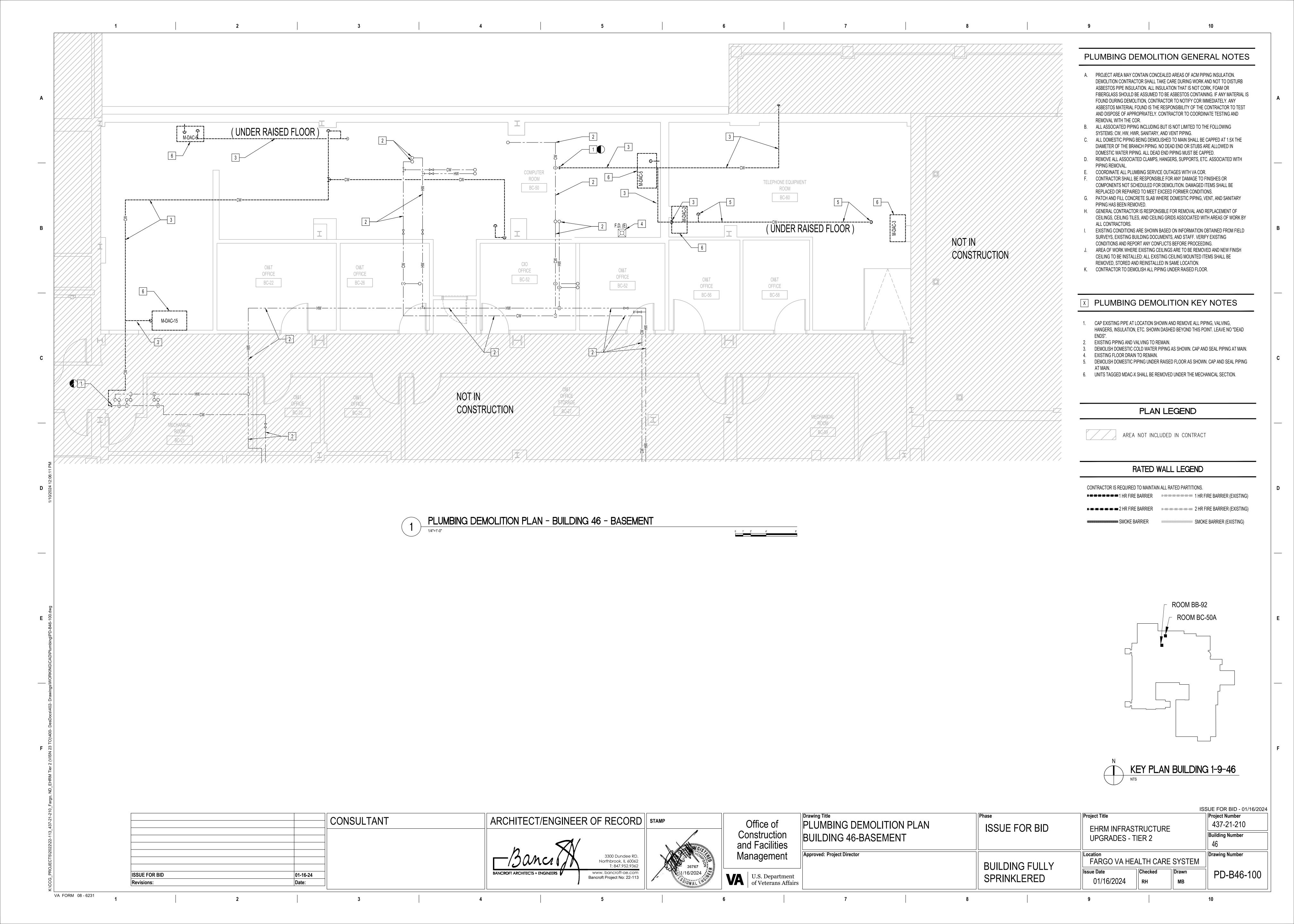
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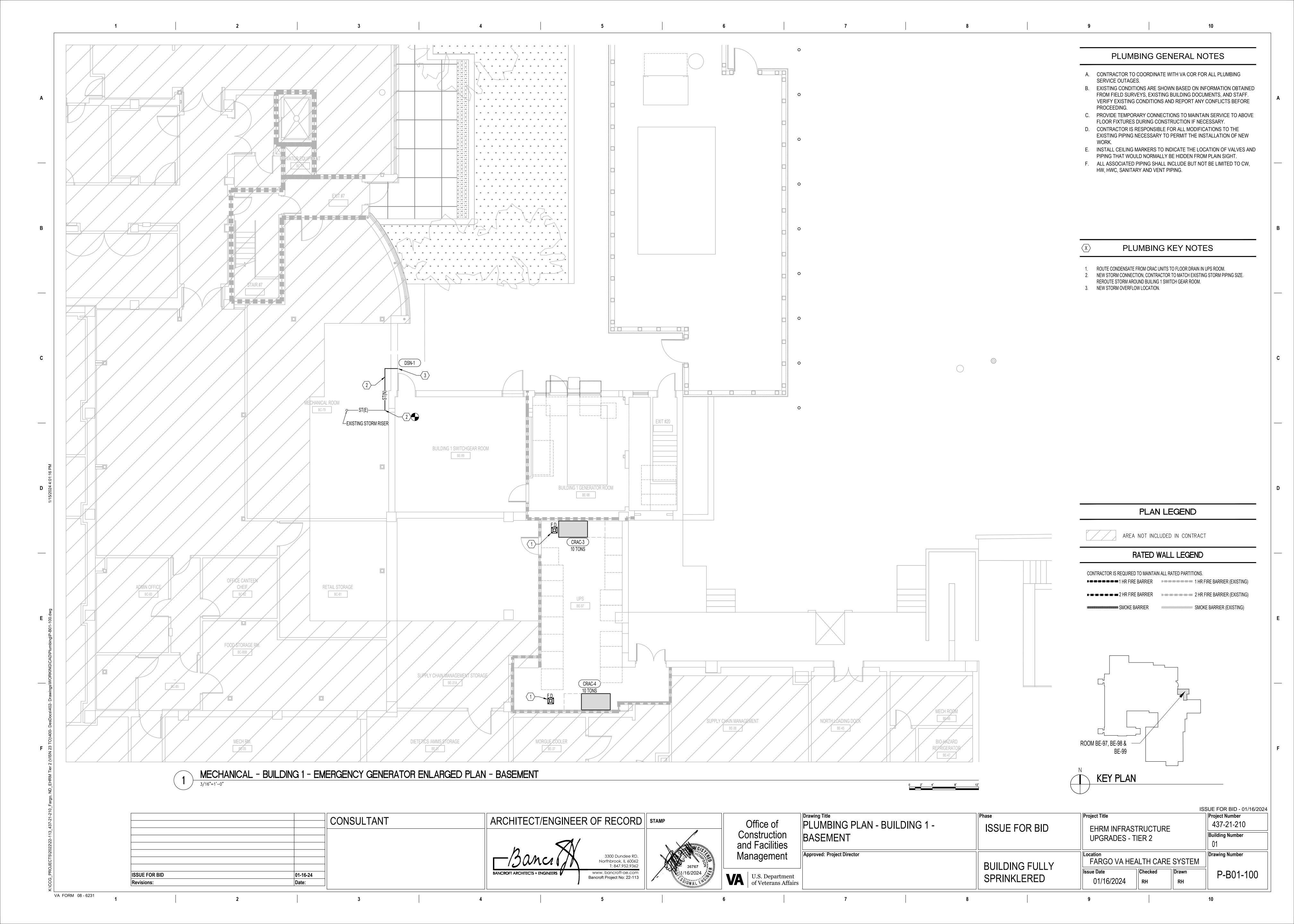


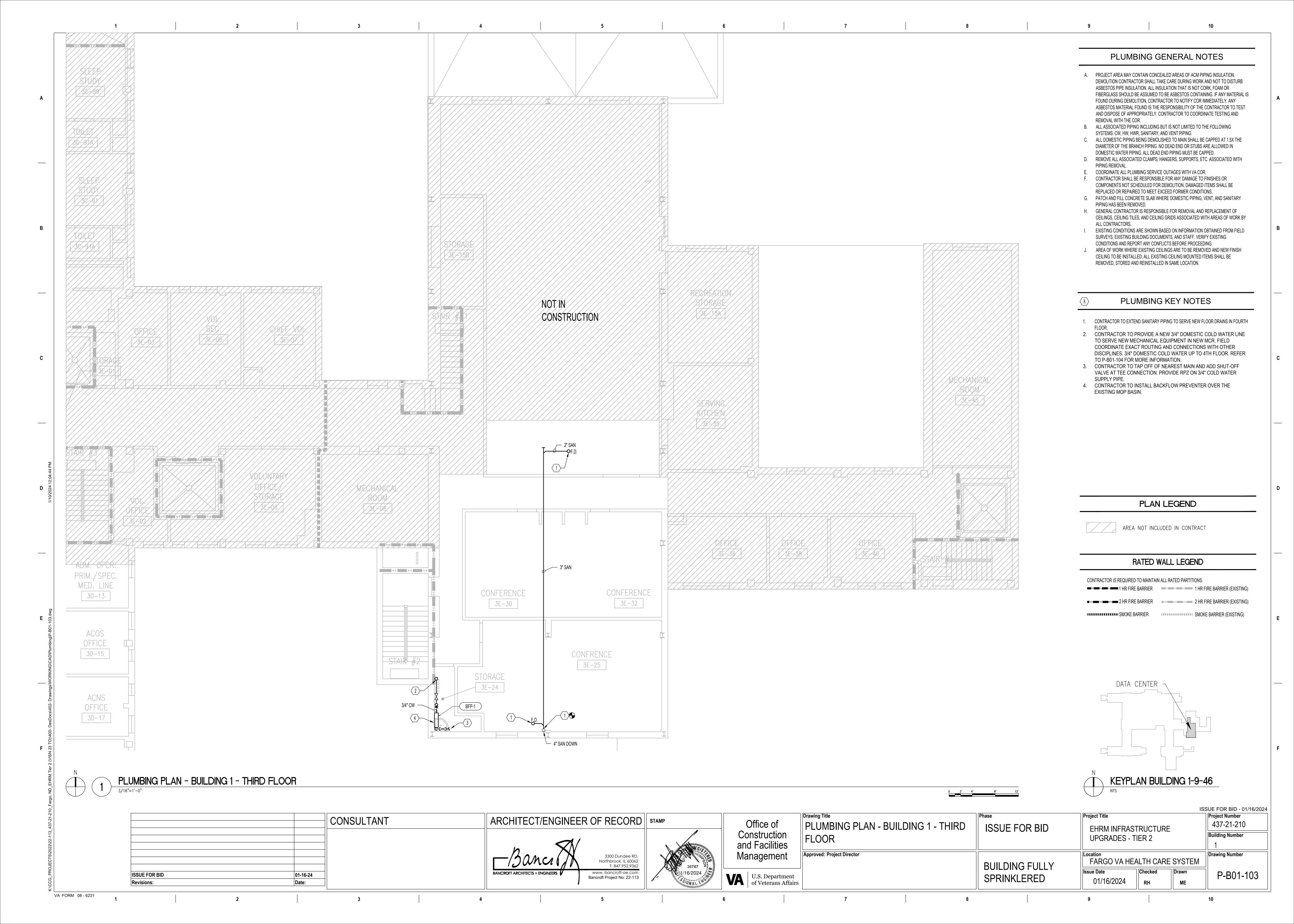


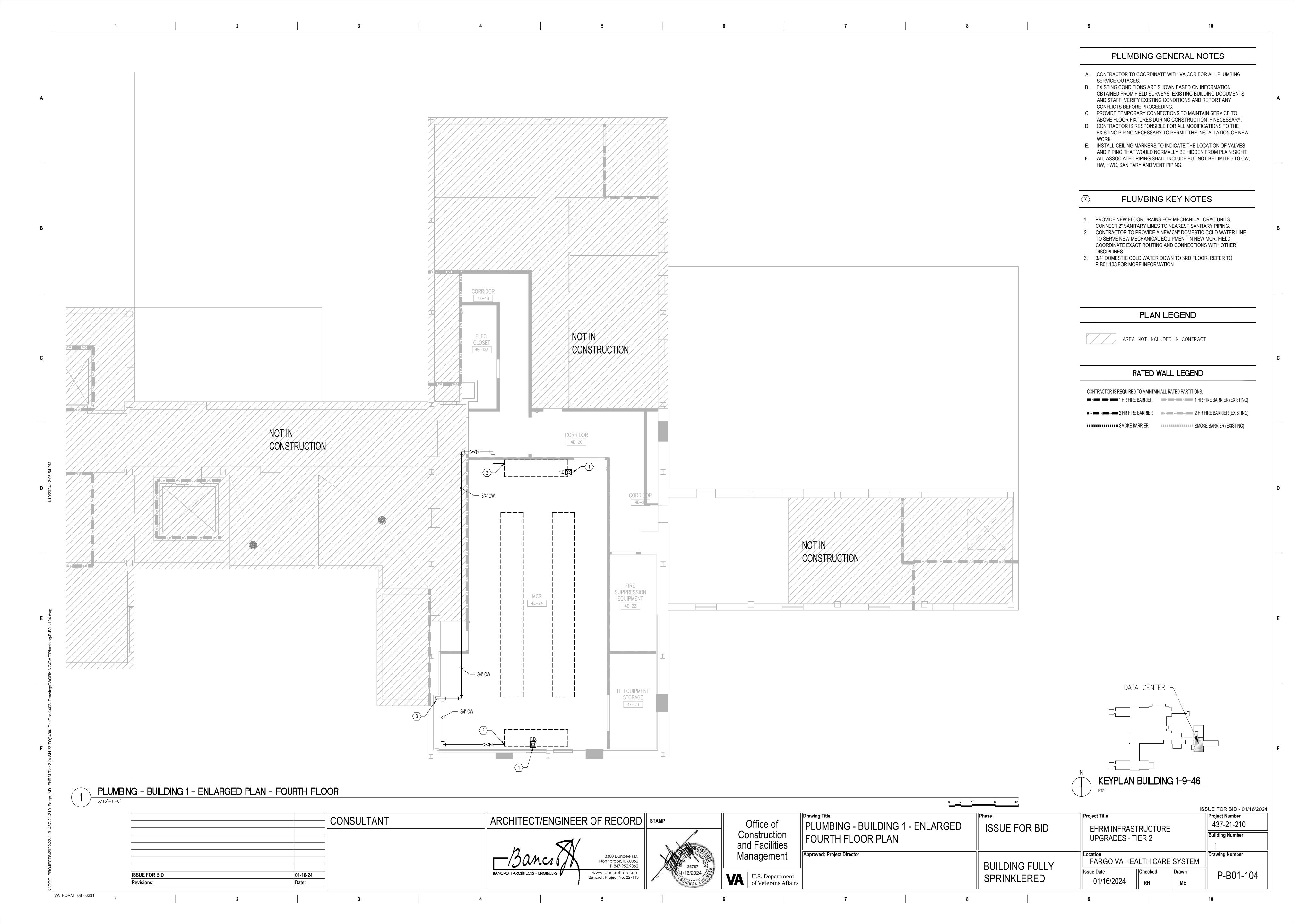


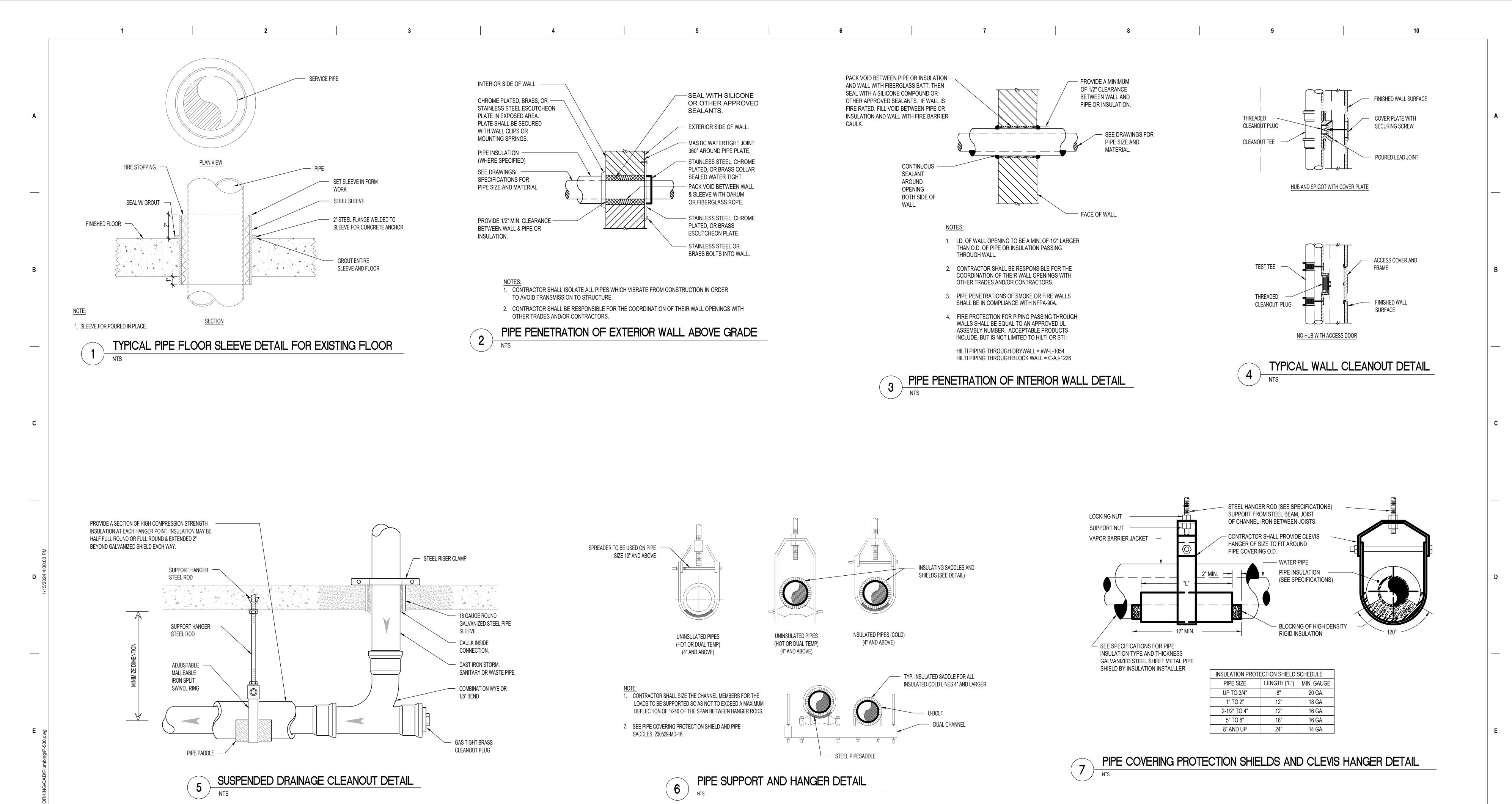














	7			1	Drawing Title	Dhaca	Proiect Title	ISSUE FOR BID - 01/16/202
	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP		PLUMBING DETAILS	ISSUE FOR BID	EHRM INFRASTRUCTURE	Project Number 437-21-210
				Construction		1000L TOTABLE	UPGRADES - TIER 2	Building Number
		3300 Dundee RD. Northbrook, IL 60062 T: 847,952,9362	36767 3	and Facilities Management	Annual Design Discours		Landin	1-9-46
					Approved: Project Director	BUILDING FULLY	FARGO VA HEALTH CARE SYSTEM	Drawing Number
ISSUE FOR BID 01-16-24		BANCROFT ARCHITECTS + ENGINEERS	1/16/2024	U.S. Department of Veterans Affairs		SPRINKLERED	Issue Date Checked Drawn	P-500
Revisions: Date:			William SIONAL ENGINEER	of Veterans Affairs		OI MININELINED	01/16/2024	

