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012-TN-001.3	TELECOM DISTANCE ASSESSMENT -BLDG 12 GND FLR
012-TN-001.11	TELECOM DISTANCE ASSESSMENT -BLDG 12 GND FLR
012-TN-011	TELECOM DISTANCE ASSESSMENT -BLDG 12 1ST FLR
012-TN-011.2	TELECOM DISTANCE ASSESSMENT -BLDG 12 1ST FLR
012-TN-021	TELECOM REMODEL PLAN-BLDG 12 SECOND FLOOR
012-TN-021.1	TELECOM DISTANCE ASSESSMENT -BLDG 12 2ND FLR
012-TN-031	TELECOM REMODEL PLAN-BLDG 12 THIRD FLOOR
012-TN-031.1	TELECOM DISTANCE ASSESSMENT -BLDG 12 3RD FLR
012-TN-041	TELECOM REMODEL PLAN-BLDG 12 4TH FLOOR
012-TN-041.1	TELECOM DISTANCE ASSESSMENT -BLDG 12 4TH FLR
013-TN-011	TELECOM REMODEL PLAN-BLDG 13 FIRST FLOOR
014-TN-0G1	TELECOM REMODEL PLAN-BLDG 14
014-TN-0G1.1	TELECOM DISTANCE ASSESSMENT -BLDG 14 FIRST FLOOR
017-TN-011	TELECOM REMODEL PLAN-BLDG 17 FIRST FLOOR
017-TN-011.1	TELECOM DISTANCE ASSESSMENT -BLDG 17 FIRST FLOOR
018-TN-011	TELECOM REMODEL PLAN-BLDG 18
018-TN-011.1	TELECOM DISTANCE ASSESSMENT -BLDG 18
020-TN-011	TELECOM REMODEL PLAN-BLDG 20
020-TN-011.1	TELECOM DISTANCE ASSESSMENT -BLDG 20
023-TN-0B1	TELECOM REMODEL PLAN-BLDG 23
023-TN-0B1.1	TELECOM DISTANCE ASSESSMENT -BLDG 23
029-TN-0B1	TELECOM REMODEL PLAN-BLDG 29
029-TN-0B1.1	TELECOM DIST ASSESSMENT -BLDG 29 BASEMENT
043-TN-011	TELECOM REMODEL PLAN-BLDG 43
043-TN-011.1	TELECOM DISTANCE ASSESSMENT -BLDG 43
053-TN-0B1	TELECOM REMODEL PLAN-BLDG 53
053-TN-021.1	TELECOM DISTANCE ASSESSMENT -BLDG 53
065-TN-011	TELECOM REMODEL PLAN-BLDG 65
065-TN-011.1	TELECOM DISTANCE ASSESSMENT -BLDG 65
065-TN-012	ENLARGED TELECOM REMODEL PLAN-ROOM 109
065-TN-012.1	VA MCR DETAILS
065-TN-012.2	VA MCR DETAILS
065-TN-012.3	VA MCR DETAILS
066-TN-011	TELECOM REMODEL PLAN-BLDG 66
066-TN-011.1	TELECOM DISTANCE ASSESSMENT -BLDG 66




	1	2	3	4	5	6	7	8	9	10	
GENERAL NOTES											
A	1. THE WORK OF THE ELECTRONIC HEALTH RECORDS MODERNIZATION INFRASTRUCTURE UPGRADES PROJECT IS SCHEDULED TO DISTURB "COMMON HAZARDOUS BUILDING MATERIALS." "COMMON HAZARDOUS BUILDING MATERIALS" IS INTENDED TO INCLUDE ASBESTOS-CONTAINING MATERIALS, LEAD-CONTAINING MATERIALS, MERCURY-CONTAINING MATERIALS, PCB-CONTAINING LIGHT BALLASTS, OZONE DEPLETING SUBSTANCES (ODS), AND MATERIALS WITH RADIOACTIVE COMPONENTS. OTHER HEALTH, SAFETY, AND ENVIRONMENTAL HAZARDS MAY BE PRESENT AT THIS SITE AND ARE ADDRESSED ELSEWHERE IN THE CONTRACT DOCUMENTS. THE PRIMARY INTENT OF THE HAZARDS ABATEMENT PORTION OF THE WORK IS TO SATISFY THE HEALTH, SAFETY, AND ENVIRONMENTAL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. HOWEVER, THE HAZARDS ABATEMENT DRAWINGS AND SPECIFICATIONS MAY INCLUDE MORE STRINGENT REQUIREMENTS.										
	2. THE HAZARDS ABATEMENT DRAWINGS ARE INTENDED TO PROVIDE INFORMATION ON WHICH "COMMON HAZARDOUS BUILDING MATERIALS" WILL BE DISTURBED, WHERE THOSE MATERIALS ARE LOCATED, AND THE ESTIMATED QUANTITIES OF THOSE MATERIALS TO BE REMOVED. THE EXACT EXTENT OF THE HAZARDS ABATEMENT PORTION OF THE WORK MAY VARY ON THE CONTRACTOR'S CHOICE OF MEANS AND METHODS TO COMPLETE THE WORK. HOWEVER, IF ADDITIONAL QUANTITIES OF MATERIALS REQUIRE REMOVAL DUE TO THE CONTRACTOR'S CHOICE OF MEANS AND METHODS, THAT WORK SHALL COME AT NO ADDITIONAL COST TO THE OWNER. THE CONTENT OF THE HAZARDS ABATEMENT DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE A BASELINE FOR BIDDING PURPOSES ONLY, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT ALL HAZARDS ABATEMENT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND LAWS OF THE AUTHORITY HAVING JURISDICTION.										
	3. ALL CONTRACTORS AND SUBCONTRACTORS WORKING AT THIS SITE MUST REVIEW THE HAZARDOUS MATERIALS ASSESSMENT AND HAZARDS ABATEMENT DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE THEMSELVES WITH THE "COMMON HAZARDOUS BUILDING MATERIALS" PRESENT AT THE SITE AND HOW THOSE MATERIALS MAY AFFECT THEIR WORK. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE THE WORK OF THIS PROJECT ACROSS ALL DISCIPLINES AND TO CONDUCT THEIR WORK WITHOUT DISTURBING THE VARIOUS "COMMON HAZARDOUS BUILDING MATERIALS" UNLESS THOSE PERSONNEL ARE QUALIFIED TO PERFORM SUCH WORK. IF ELEMENTS OF THE WORK CAN BE CONDUCTED WITHOUT DISTURBING THE VARIOUS "COMMON HAZARDOUS BUILDING MATERIALS," AND IF THAT WORK WOULD NOT RESULT IN ADDITIONAL COSTS TO THE OWNER TO AVOID THOSE "COMMON HAZARDOUS BUILDING MATERIALS," THEN THOSE MATERIALS SHALL BE AVOIDED. DUE TO THE POTENTIAL TO CONTACT ASBESTOS-CONTAINING MATERIALS THROUGHOUT THIS SITE, ALL PERSONNEL PERFORMING WORK AT THIS SITE ARE REQUIRED TO HAVE A MINIMUM OF "TWO-HOUR ASBESTOS AWARENESS" TRAINING. ONLY PERSONNEL WHO ARE TRAINED AND STATE-ACCREDITED AS AN EPA WORKER OR EPA CONTRACTOR/SUPERVISOR ARE PERMITTED TO DISTURB ASBESTOS-CONTAINING MATERIALS.										
	4. THE HAZARDS ABATEMENT DRAWINGS DO NOT DEPICT NON-HAZARDOUS BUILDING MATERIALS-RELATED SCOPES OF WORK. THE LOCATIONS OF MATERIALS DEPICTED BY THE HAZARDS ABATEMENT DRAWINGS ARE SCHEMATIC REPRESENTATIONS ONLY, AND NOT ALL "COMMON HAZARDOUS BUILDING MATERIALS" ARE SHOWN BY THE HAZARDS ABATEMENT DRAWINGS. ALTHOUGH EVERY EFFORT WAS MADE TO IDENTIFY THE "COMMON HAZARDOUS BUILDING MATERIALS" IN THE PROJECT AREAS, SOME MATERIALS MAY NOT HAVE BEEN IDENTIFIED. THE "COMMON HAZARDOUS BUILDING MATERIALS" AT THIS SITE ARE TYPICALLY IN GOOD CONDITION, HOWEVER, ISOLATED AREAS OF "WEAR AND TEAR" DAMAGE ARE ASSUMED TO BE SCATTERED THROUGHOUT THE SITE. ADDITIONALLY, IT IS ASSUMED THAT SOME DEBRIS FROM DAMAGED "COMMON HAZARDOUS BUILDING MATERIALS" MAY BE PRESENT ON TOP OF CEILINGS, ON ABOVE-CEILING COMPONENTS, IN CHASES, IN ENCLOSED OR OTHERWISE CONCEALED OR INACCESSIBLE AREAS, AND OTHER AREAS WHICH ARE NOT ROUTINELY CLEANED. THERE IS NO REQUIREMENT TO REMOVE PRE-EXISTING ASBESTOS-CONTAINING DUSTS OR DEBRIS OR CONTAMINATION FROM THE BUILDINGS UNLESS THE CONTRACTOR DETERMINES THAT TO BE A MORE COST-EFFECTIVE MEANS OF COMPLETING THE WORK OR IF THOSE MATERIALS ARE OTHERWISE AFFECTED BY THE SCOPE OF WORK.										
	5. LEAD-CONTAINING MATERIALS ARE PRESENT THROUGHOUT THE SITE, INCLUDING ON ALL PAINTED SURFACES, GLAZED CERAMIC TILES OR FIXTURES, IN METALLIC FORM SUCH AS IN SOLDER, AND IN OTHER MISCELLANEOUS MATERIALS. THE LOCATIONS OF THESE MATERIALS ARE GENERALLY NOT SHOWN BY THE HAZARDS ABATEMENT DRAWINGS. DISTURBANCE OF LEAD-CONTAINING MATERIALS ARE SUBJECT TO REGULATION BY 29 CFR 1926.62, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE "TRIGGER TASKS" AND OTHER REQUIREMENTS OF 29 CFR 1926.62 TO DETERMINE WHICH PORTIONS APPLY, IF ANY, TO EACH UNIQUE WORK TASK REQUIRED BY THIS PROJECT. SIMILARLY, ALL LEAD-CONTAINING WASTE STREAMS SHALL BE TOP TESTED IN ACCORDANCE WITH 40 CFR 261 TO DETERMINE DISPOSAL REQUIREMENTS. ALTERNATIVELY, THE CONTRACTOR MAY ELECT TO HAVE THEIR DESIGNATED IH TECHNICIAN COLLECT BULK SAMPLES OF EACH AFFECTED PAINT TO DETERMINE IF "DETECTABLE LEVELS OF LEAD" ARE PRESENT IN THE PAINTS. ANY RESULTS WHICH INDICATE LEAD ABOVE THE LIMITS OF DETECTION SHALL BE CONSIDERED AS HAVING "DETECTABLE LEVELS OF LEAD" AND THEREFORE SUBJECT TO BOTH THE MONITORING AND TESTING REQUIREMENTS OF THIS CONTRACT. THE MAXIMUM LIMIT OF DETECTION SHALL BE 60 PPM.										
	6. DUSTS THROUGHOUT THE BUILDINGS ARE ASSUMED TO CONTAIN MEASURABLE CONCENTRATIONS OF VARIOUS REGULATED AIR CONTAMINANTS, SUCH AS THOSE FOUND IN 29 CFR 1910.1000, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSESS EACH WORK AREA TO DETERMINE WHETHER ADDITIONAL WORKER OR SITE PROTECTION IS NEEDED TO ENSURE COMPLIANCE WITH THE REGULATIONS OF THE AUTHORITY HAVING JURISDICTION AND OTHER PERFORMANCE REQUIREMENTS OF THE CONTRACT.										
	7. ALL FINAL VISUAL INSPECTIONS AND MONITORING ARE TO BE PERFORMED BY THE DEPARTMENT OF VETERANS AFFAIRS PROFESSIONAL INDUSTRIAL HYGIENIST IN ACCORDANCE WITH THE SPECIFICATIONS.										
	8. THE CONTRACTOR'S INDUSTRIAL HYGIENIST MUST PROVIDE ALL OTHER INSPECTIONS, TESTING, AND MONITORING-RELATED ELEMENTS OF THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS.										
	10. DUE TO THE AGE OF THE STRUCTURES AND OBSERVATIONS MADE DURING THE LIMITED FIELD INVESTIGATIONS, CONCEALED MATERIALS ARE ANTICIPATED TO BE PRESENT THROUGHOUT THE BUILDINGS UNDER FLOORS, BEHIND WALLS, ABOVE CEILINGS, OR IN TYPICALLY INACCESSIBLE SPACES. THOSE MATERIALS MAY CONTAIN ASBESTOS OR OTHER POTENTIALLY HAZARDOUS MATERIALS.										
	11. WHERE ASBESTOS-CONTAINING MATERIALS HAVE BEEN CONCEALED BY NEWER NON-ASBESTOS-CONTAINING MATERIALS, AND WHERE THOSE NEWER MATERIALS ARE GLUED OR OTHERWISE SECURED TO THE UNDERLYING ASBESTOS-CONTAINING MATERIALS IN A WAY WHICH RESULTS IN DISTURBANCE OF THOSE UNDERLYING ASBESTOS-CONTAINING MATERIALS, THE REMOVAL OF THE NEWER MATERIALS SHALL BE PERFORMED AS AN ASBESTOS ABATEMENT OPERATION USING THE SAME OR MORE STRINGENT WORK PRACTICES AS THE REMOVAL OF THE UNDERLYING ASBESTOS-CONTAINING MATERIALS REQUIRES, AND THOSE NEWER MATERIALS MUST BE DISPOSED OF AS ASBESTOS-CONTAMINATED WASTE. EXAMPLES OF THIS TYPE OF CONDITION INCLUDE, BUT ARE NOT LIMITED TO: REMOVAL OF CARPET THAT HAS BEEN GLED TO VINYL ASBESTOS TILE; ASBESTOS-CONTAINING SHEET VINYL, OR ASBESTOS-CONTAINING MASTICS; REMOVAL OF NON-ASBESTOS-CONTAINING ACOUSTIC CEILING TILES ADHERED TO THE SUBSTRATE WITH ASBESTOS-CONTAINING MASTICS; REMOVAL OF NON-ASBESTOS-CONTAINING COVE BASE AND MASTICS WHICH WERE ADHERED TO AN ASBESTOS-CONTAINING SUBSTRATE OR MATERIAL, ETC.										
B	12. ALL MATERIALS SHALL BE SAMPLED PRIOR TO DISTURBANCE UNLESS THOSE MATERIALS HAVE BEEN SHOWN NOT TO CONTAIN ASBESTOS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON THE BULK SAMPLING REQUIREMENTS OF THIS PROJECT.										
	13. ADDITIONAL SAFETY REQUIREMENTS ARE SPECIFIED UNDER SECTION 01 32.6 WHERE CONFLICTS ARISE. THE MOST STRINGENT REQUIREMENTS MUST BE USED.										
C											
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CONSULTANT	ARCHITECT/ENGINEER OF RECORD										STAMP	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)	DRAWING TITLE GENERAL NOTES & QUANTITIES FOR HAZARDS ABATEMENT PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER 568A4-21-702
	A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE															
HTRW, LLC HAZARDOUS BUILDING MATERIALS CONSULTING 11421 BUSINESS BLVD, #72442, EAGLE RIVER, AK 99577 (907) 679-0801 • (907) 208-7817 FAX • CONTACT@HTRWALASKA.COM										DRAWING NUMBER 00-HA-000.1						
Revisions:											DATE:		ISSUE DATE 02/23/2022		CHECKED BY CTO	DRAWN BY CTO

CONSULTANT										ARCHITECT/ENGINEER OF RECORD										STAMP										PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)										DRAWING TITLE GENERAL NOTES & QUANTITIES FOR HAZARDS ABATEMENT PLANS										PHASE 100% CD FINAL SOLUTION										PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES										PROJECT NUMBER 568A4-21-702									
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CONSULTANT

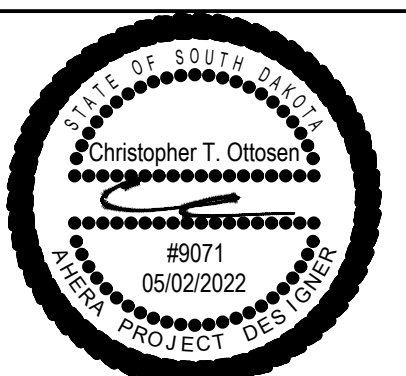


HAZARDOUS BUILDING MATERIALS CONSULTING  
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ADAM GOODIN, PE

STAMP



PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)

VA U.S. Department of Veterans Affairs

DRAWING TITLE

GENERAL NOTES & QUANTITIES FOR HAZARDS ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

CHECKED BY

CTO

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PROJECT NUMBER

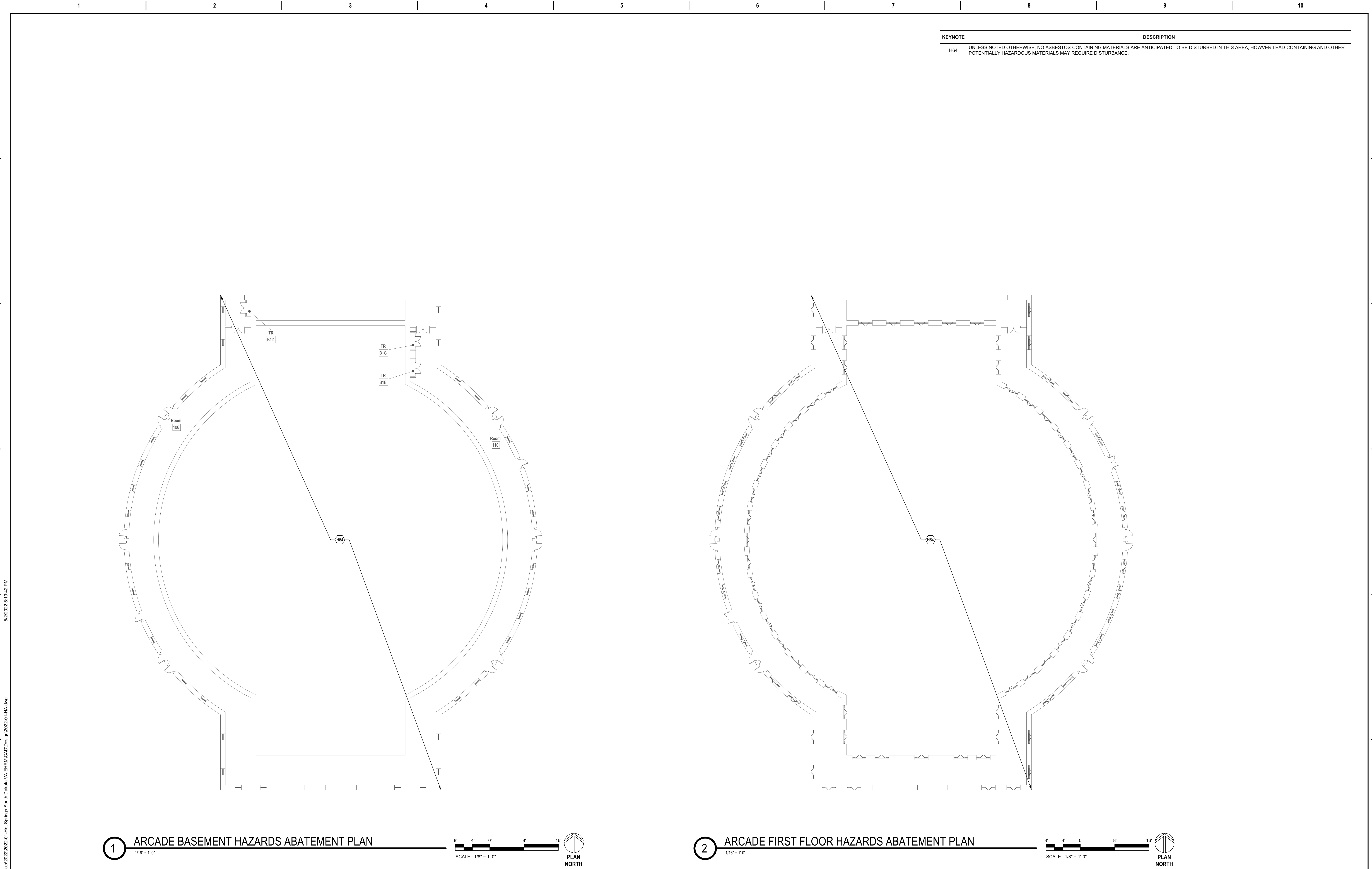
568A4-21-702

BUILDING NUMBER

DRAWING NUMBER

00-HA-000.1





KEYNOTE	DESCRIPTION
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

1

ARCADE BASEMENT HAZARDS ABATEMENT PLAN

1/16" = 1'-0"

8' 4' 0' 8' 16'

SCALE : 1/8" = 1'-0"

PLAN NORTH

2


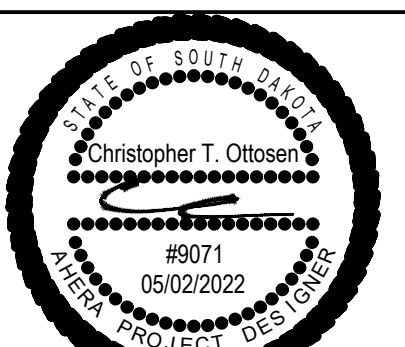
ARCADE FIRST FLOOR HAZARDS ABATEMENT PLAN

1/16" = 1'-0"

8' 4' 0' 8' 16'

SCALE : 1/8" = 1'-0"

PLAN NORTH

<b>CONSULTANT</b>  HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #773442, EARLE RIVER, AK 99577 (907) 917-3861 • (907) 922-7517 FAX • CONTACT@HTRW.LLC.COM	<b>ARCHITECT/ENGINEER OF RECORD</b> <b>A/E:</b> GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE	<b>STAMP</b> 	<b>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</b> <b>VA</b> U.S. Department of Veterans Affairs	DRAWING TITLE 00-BASEMENT & FIRST FLOOR HAZARDS ABATEMENT PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER 568A4-21-702
				APPROVED: Project Director	FLS FULLY SPRINKLERED	LOCATION HOT SPRINGS, SOUTH DAKOTA	DRAWING NUMBER 000-HA-0B1
				ISSUE DATE 02/23/2022	CHECKED BY CTO	DRAWN BY CTO	



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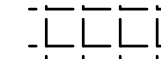
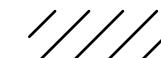
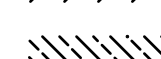

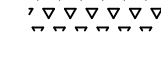

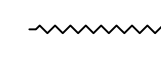

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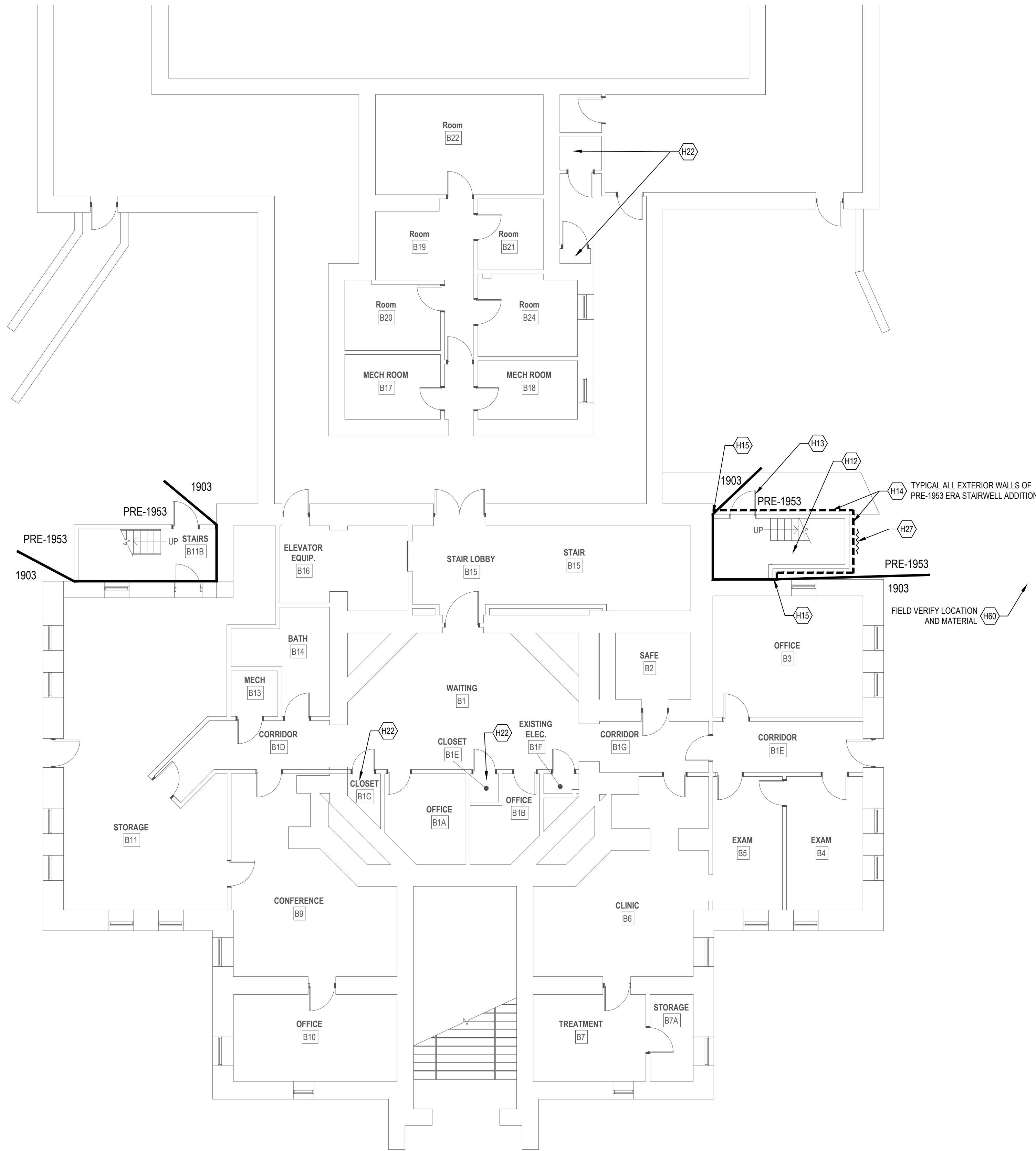
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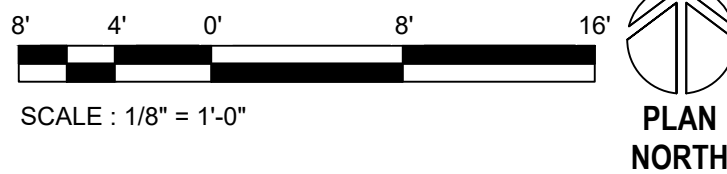
KEYNOTE	DESCRIPTION
H12	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING HIGH TEMPERATURE WIRING INSULATION, ASSUMED MERCURY-CONTAINING UNIVERSAL WASTE LAMPS, AND ASSUMED PCB-CONTAINING BALLASTS FROM THE PRE-1953 STAIRWELL ADDITION LIGHT FIXTURES.
H13	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS AT THE BASEMENT-LEVEL EXTERIOR DOOR FRAME AND TRIM.
H14	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS ON SIDING SEAMS, DRIP EDGES, AND OTHER FLASHING AND TRIM PIECES ON THE PRE-1953 STAIRWELL ADDITION.
H15	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS WHERE THE PRE-1953 STAIRWELL ADDITION SIDING MEETS THE ORIGINAL SANDSTONE BLOCK WALLS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H27	REMOVE AND DISPOSE OF WINDOWS WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND PERIMETER SEALANTS ON THE PRE-1953 STAIRWELL ADDITION.
H60	REMOVE AND DISPOSE OF BURIED ASBESTOS-CONTAINING "TRANSITE" PIPING ONLY AS REQUIRED TO ACCOMMODATE THE TIE-IN OF THE NEW STORM DRAIN AT BUILDING 01 TO THE EXISTING STORM DRAIN.




LEGEND, BUILDING 01

-  VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS
-  ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS CONCEALED UNDER CARPETING
-  CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  ASSUMED ASBESTOS-CONTAINING SEALANTS ON SIDING SEAMS, DRIP EDGES, OTHER FLASHING AND TRIM PIECES
-  WINDOWS WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND PERIMETER SEALANTS ON THE PRE-1953 ADDITION STAIRWELL
-  ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS
-  PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



1 BUILDING 1 BASEMENT HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"

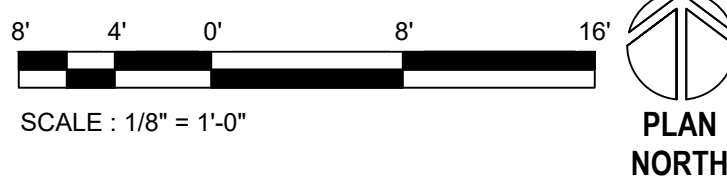


<div>CONSULTANT</div> <div><div>HTRW, LLC HEAVENBORN TRADING MATERIALS CONSULTING 11471 BUSINESS BLVD, #73242, EAGLE RIVER, AK 99577 907-517-3801 • 907-520-9517 FAX • CONTACT@HTRWLLC.COM</div></div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE</div><div><div>GDM ARCHITECTS • ENGINEERS</div></div></div>	<div>STAMP</div> <div></div>	<div>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</div> <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>	<div>DRAWING TITLE</div> <div>01-BASEMENT HAZARDS ABATEMENT PLANS</div>	<div>PHASE</div> <div>100% CD FINAL SOLUTION</div>	<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div>			<div>PROJECT NUMBER</div> <div>568A4-21-702</div>
				<div>APPROVED: Project Director</div>	<div>FLS</div> <div>FULLY SPRINKLERED</div>	<div>LOCATION</div> <div>HOT SPRINGS, SOUTH DAKOTA</div>		<div>DRAWING NUMBER</div> <div>001-HA-0B1</div>	
					<div>ISSUE DATE</div> <div>02/23/2022</div>	<div>CHECKED BY</div> <div>CTO</div>	<div>DRAWN BY</div> <div>CTO</div>		



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1 BUILDING 1 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



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ARCHITECTS • ENGINEERS

**STAMP**

Professional Engineer Seal for Christopher T. Ottosen, State of Washington, No. 05071, dated 05/02/2022.

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
01-FIRST FLOOR HAZARDS ABATEMENT PLANS

**APPROVED:** Project Director

**PHASE**  
100% CD FINAL SOLUTION

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
HOT SPRINGS, SOUTH DAKOTA

**ISSUE DATE**  
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**CHECKED BY**  
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**DRAWN BY**  
CTO

**PROJECT NUMBER**  
568A4-21-702

**BUILDING NUMBER**

**DRAWING NUMBER**  
001-HA-011



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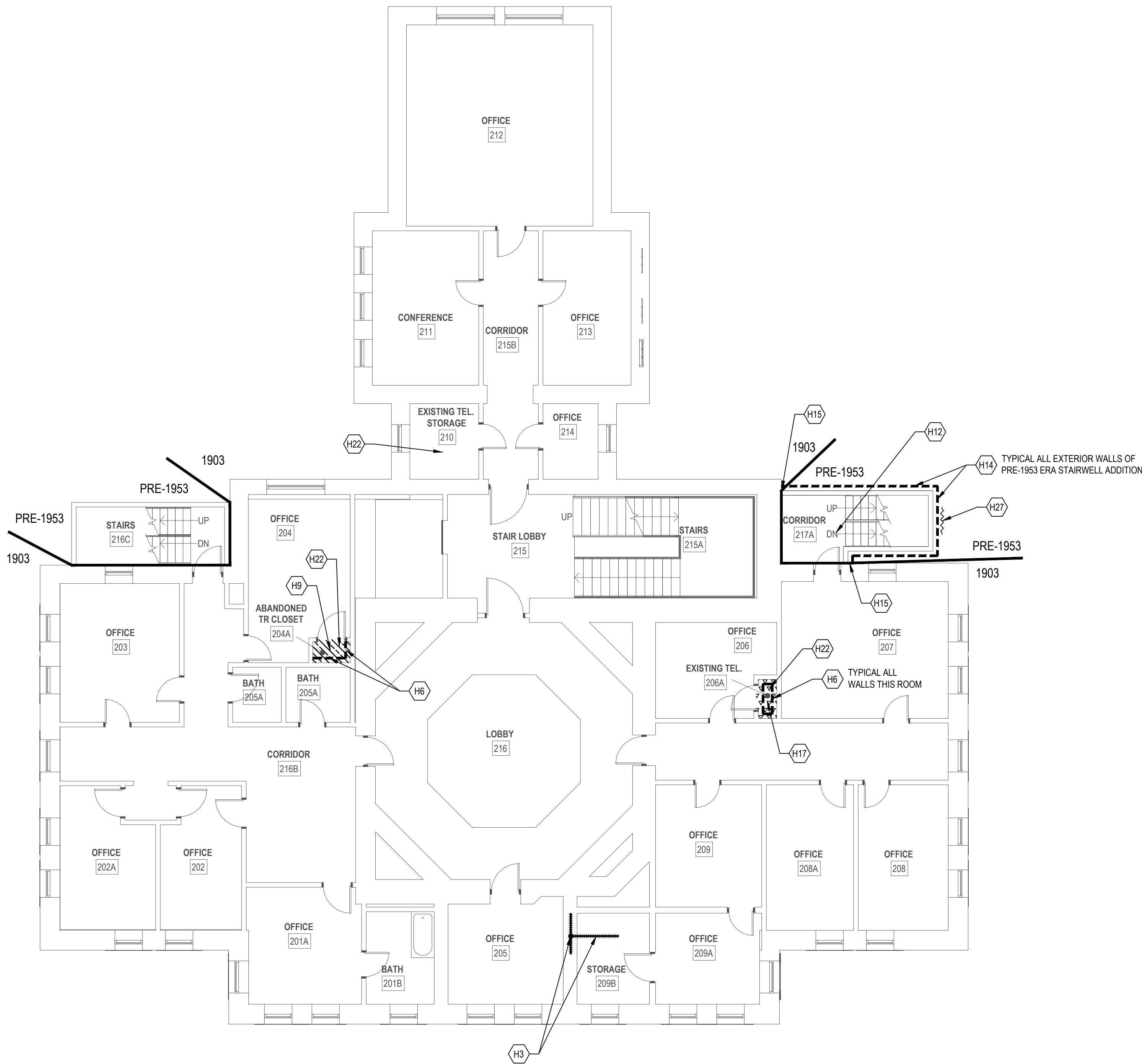
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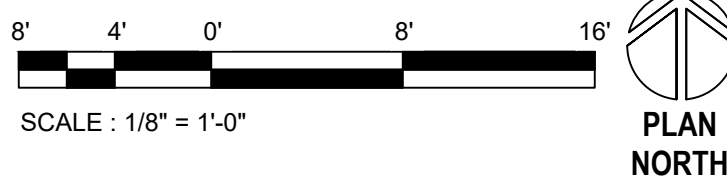
KEYNOTE	DESCRIPTION
H3	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF DOMESTIC COLD WATER PIPE RUNS ONLY AS REQUIRED TO CONNECT NEW INDOOR UNIT COLD WATER PIPING TO EXISTING.
H6	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H9	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS CONCEALED UNDER CARPETING AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H12	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING HIGH TEMPERATURE WIRING INSULATION, ASSUMED MERCURY-CONTAINING UNIVERSAL WASTE LAMPS, AND ASSUMED PCB-CONTAINING BALLASTS FROM THE PRE-1953 STAIRWELL ADDITION LIGHT FIXTURES.
H14	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS ON SIDING SEAMS, DRIP EDGES, AND OTHER FLASHING AND TRIM PIECES ON THE PRE-1953 STAIRWELL ADDITION.
H15	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS WHERE THE PRE-1953 STAIRWELL ADDITION SIDING MEETS THE ORIGINAL SANDSTONE BLOCK WALLS.
H17	REMOVE AND DISPOSE OF CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE ASBESTOS-CONTAINING MASTICS FROM SUBSTRATES TO REMAIN.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H27	REMOVE AND DISPOSE OF WINDOWS WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND PERIMETER SEALANTS ON THE PRE-1953 STAIRWELL ADDITION.



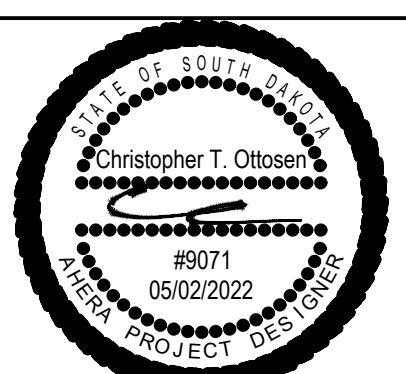
LEGEND, BUILDING 01

- VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
- ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS
- ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS CONCEALED UNDER CARPETING
- CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
- ASSUMED ASBESTOS-CONTAINING SEALANTS ON SIDING SEAMS, DRIP EDGES, OTHER FLASHING AND TRIM PIECES
- WINDOWS WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND PERIMETER SEALANTS ON THE PRE-1953 ADDITION STAIRWELL
- ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS
- PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



1 BUILDING 1 SECOND FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



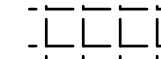
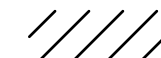
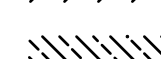

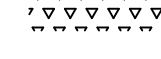

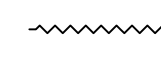

CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)		DRAWING TITLE 01-SECOND FLOOR HAZARDS ABATEMENT PLANS		PHASE 100% CD FINAL SOLUTION		PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES		PROJECT NUMBER 568A4-21-702	
 HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #73442, EAGLE RIVER, AK 99577 (907) 612-3861 • (813) 622-7517 (FAX) • CONTACT@HTRWLLC.COM		 ADAM GOODIN, PE				U.S. Department of Veterans Affairs		APPROVED: Project Director		FLS FULLY SPRINKLERED		LOCATION HOT SPRINGS, SOUTH DAKOTA		DRAWING NUMBER 001-HA-021	
												ISSUE DATE 02/23/2022		CHECKED BY CTO	DRAWN BY CTO

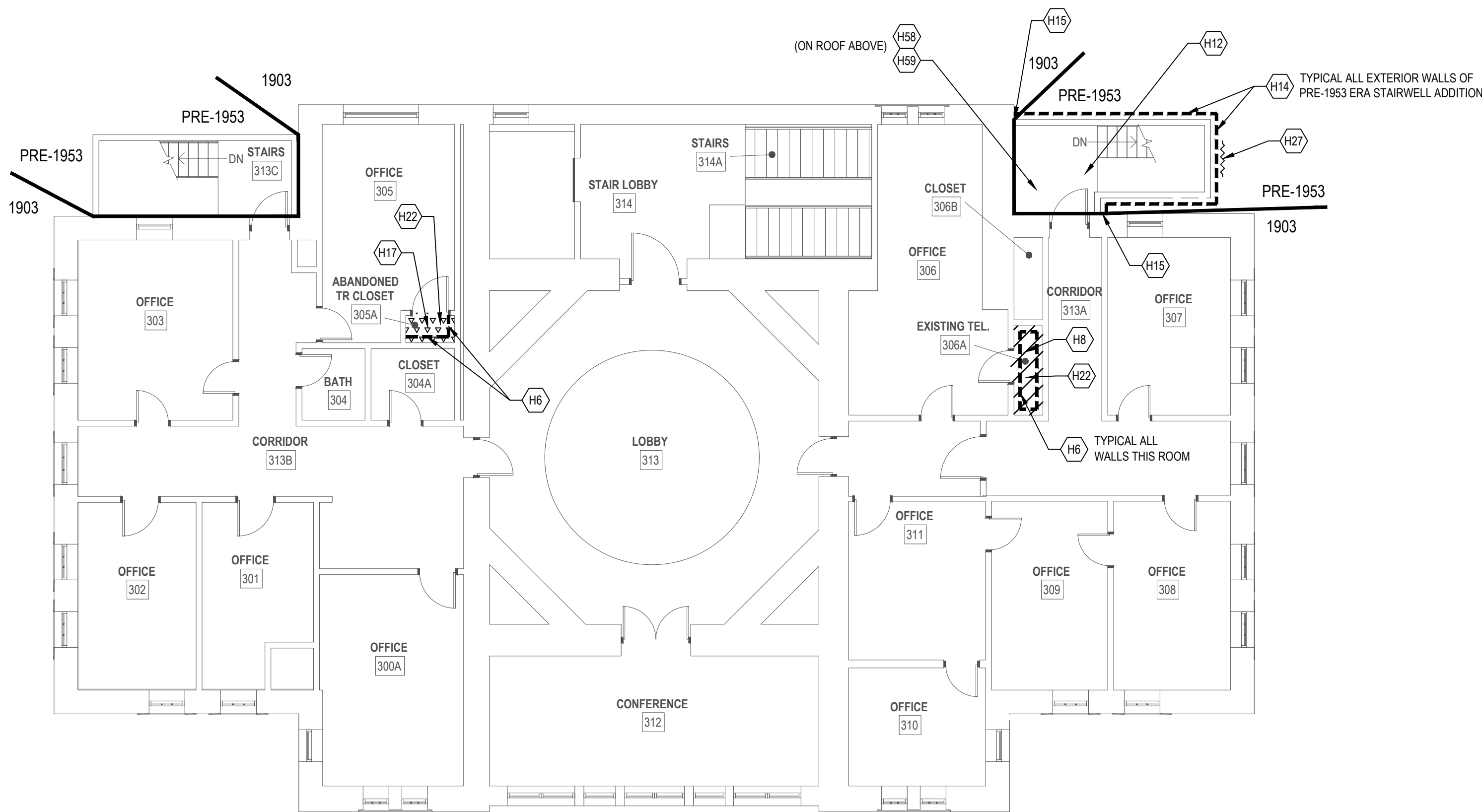


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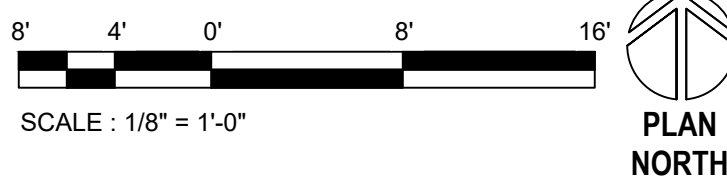
KEYNOTE	DESCRIPTION
H6	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H8	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H12	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING HIGH TEMPERATURE WIRING INSULATION, ASSUMED MERCURY-CONTAINING UNIVERSAL WASTE LAMPS, AND ASSUMED PCB-CONTAINING BALLASTS FROM THE PRE-1953 STAIRWELL ADDITION LIGHT FIXTURES.
H14	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS ON SIDING SEAMS, DRIP EDGES, AND OTHER FLASHING AND TRIM PIECES ON THE PRE-1953 STAIRWELL ADDITION.
H15	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS WHERE THE PRE-1953 STAIRWELL ADDITION SIDING MEETS THE ORIGINAL SANDSTONE BLOCK WALLS.
H17	REMOVE AND DISPOSE OF CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE ASBESTOS-CONTAINING MASTICS FROM SUBSTRATES TO REMAIN.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H27	REMOVE AND DISPOSE OF WINDOWS WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND PERIMETER SEALANTS ON THE PRE-1953 STAIRWELL ADDITION.
H58	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING ROOF FELT PAPER AND ASSUMED ASBESTOS-CONTAINING TARRY VAPOR BARRIER ON ROOF DECK BELOW CLAY TILE ROOF OF THE PRE-1953 STAIRWELL ADDITION.
H59	REMOVE AND DISPOSE OF MISCELLANEOUS ASSUMED ASBESTOS-CONTAINING ROOF TARS, MASTICS, AND SEALANTS ONLY AS REQUIRED TO ACCOMMODATE THE WORK..

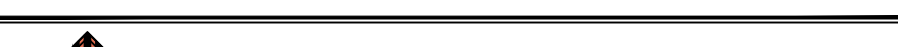


LEGEND, BUILDING 01

-  VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS
-  ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS CONCEALED UNDER CARPETING
-  CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  ASSUMED ASBESTOS-CONTAINING SEALANTS ON SIDING SEAMS, DRIP EDGES, OTHER FLASHING AND TRIM PIECES
-  WINDOWS WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND PERIMETER SEALANTS ON THE PRE-1953 ADDITION STAIRWELL
-  ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS
-  PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

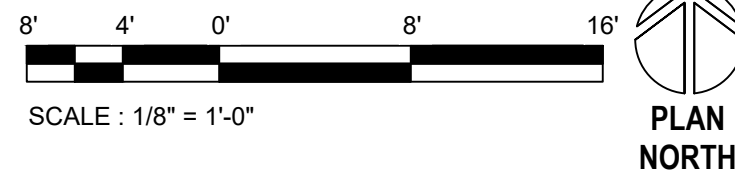




1 BUILDING 1 THIRD FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



<div>CONSULTANT</div> <div><div>HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #775442, EARLE RIVER, AK 99877 (907) 817-3461 • (907) 822-7517 (FAX) • CONTACT@HTRWLLC.COM</div></div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div>A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE</div> <div></div>	<div>STAMP</div> <div></div>	<div>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</div> <div>VA U.S. Department of Veterans Affairs</div>	<div>DRAWING TITLE</div> <div>01-THIRD FLOOR HAZARDS ABATEMENT PLANS</div>	<div>PHASE</div> <div>100% CD FINAL SOLUTION</div>	<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div>	<div>PROJECT NUMBER</div> <div>568A4-21-702</div>
				<div>APPROVED: Project Director</div>	<div>FLS</div> <div>FULLY SPRINKLERED</div>	<div>LOCATION</div> <div>HOT SPRINGS, SOUTH DAKOTA</div>	<div>BUILDING NUMBER</div>
				<div>ISSUE DATE</div> <div>02/23/2022</div>		<div>CHECKED BY</div> <div>CTO</div>	<div>DRAWN BY</div> <div>CTO</div>
				<div>DRAWING NUMBER</div> <div>001-HA-031</div>			





<b>CONSULTANT</b> 		<b>ARCHITECT/ENGINEER OF RECORD</b> A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE		<b>STAMP</b> 		<b>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</b> <b>VA</b> U.S. Department of Veterans Affairs		<b>DRAWING TITLE</b> 02-BASEMENT & SUB-BASEMENT HAZARDS ABATEMENT PLANS <b>APPROVED:</b> Project Director		<b>PHASE</b> 100% CD FINAL SOLUTION <b>FLS</b> FULLY SPRINKLERED		<b>PROJECT TITLE</b> EHRM INFRASTRUCTURE UPGRADES <b>LOCATION</b> HOT SPRINGS, SOUTH DAKOTA <b>ISSUE DATE</b> 02/23/2022			<b>PROJECT NUMBER</b> 568A4-21-702 <b>BUILDING NUMBER</b>  <b>DRAWING NUMBER</b> 002-HA-0B1	
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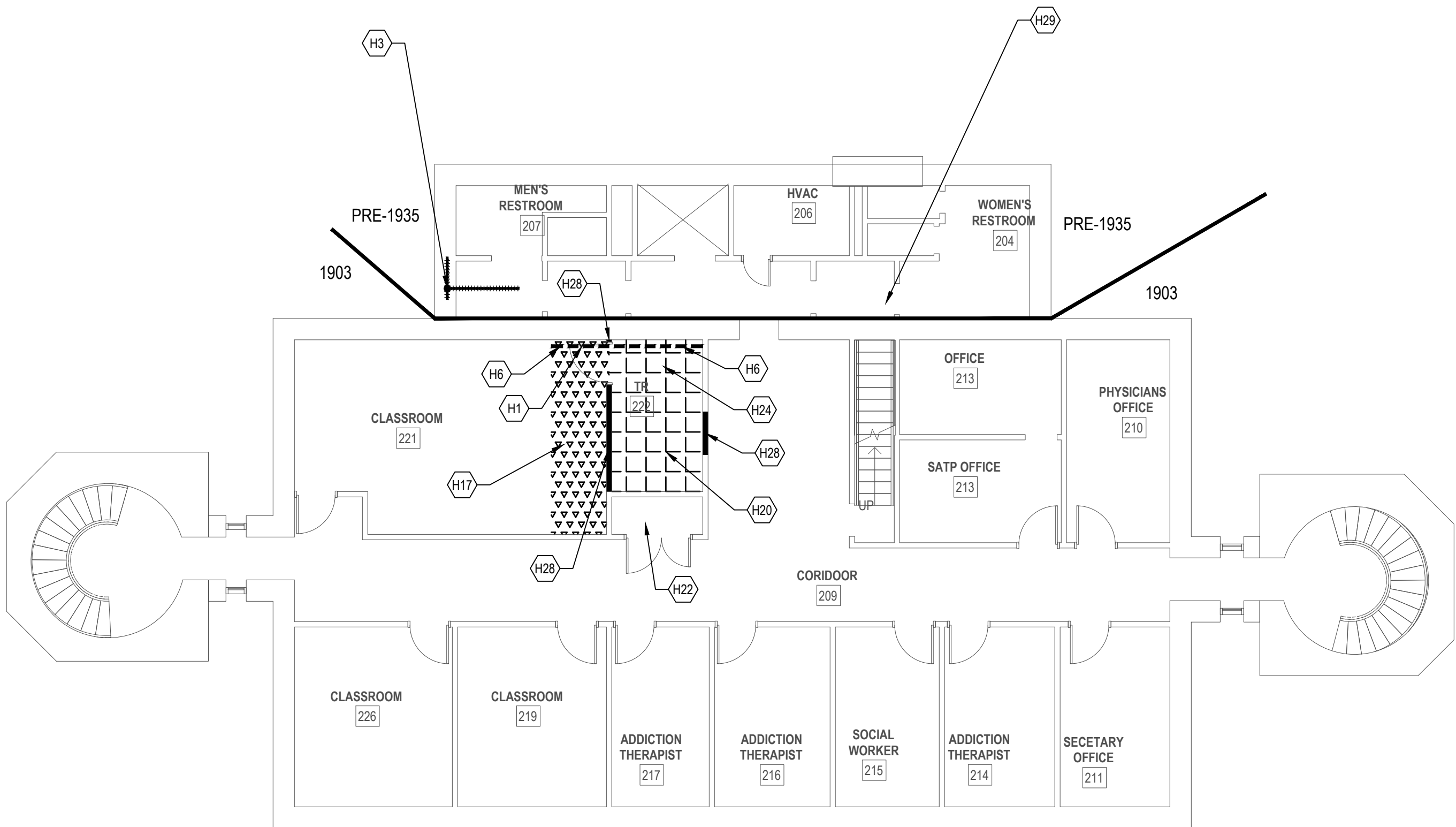
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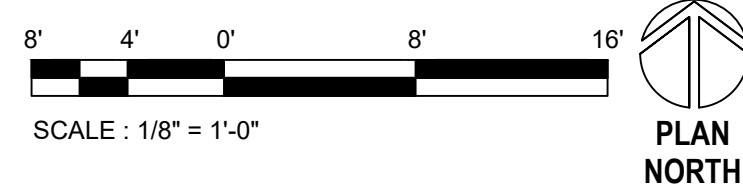
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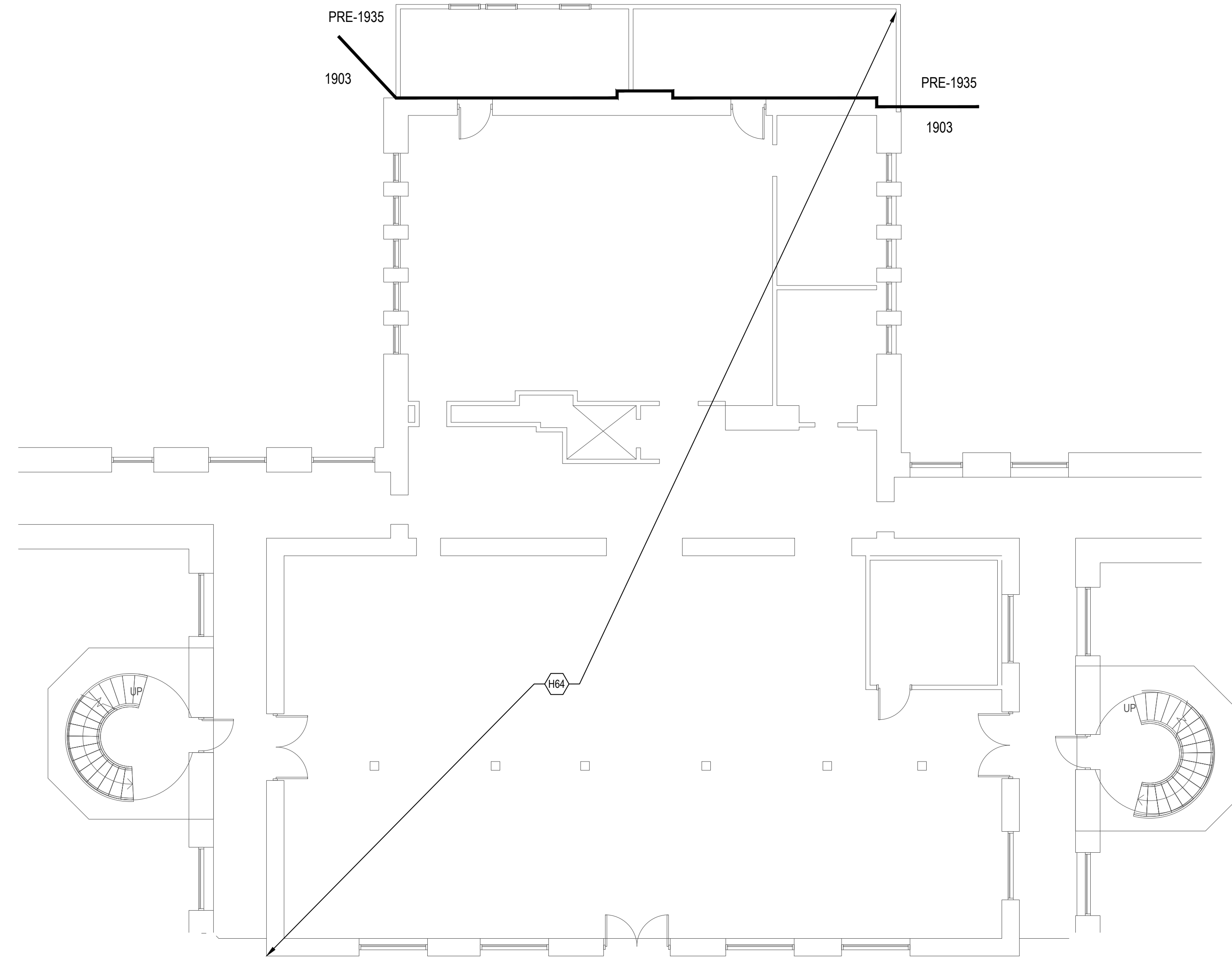
**2 BUILDING 2 SECOND FLOOR HAZARDS ABATEMENT PLAN**  
1/8" = 1'-0"



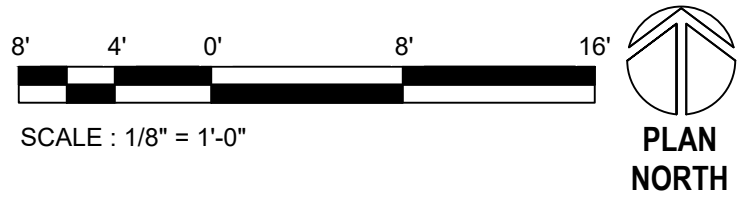
KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H3	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF DOMESTIC COLD WATER PIPE RUNS ONLY AS REQUIRED TO CONNECT NEW INDOOR UNIT COLD WATER PIPING TO EXISTING.
H6	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H17	REMOVE AND DISPOSE OF CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE ASBESTOS-CONTAINING MASTICS FROM SUBSTRATES TO REMAIN.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H24	REMOVE AND DISPOSE OF VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H28	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING BLACK FLOORING MASTIC UNDER WALL SCHEDULED FOR DEMOLITION.
H29	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING BUILT-UP ROOFING MATERIALS WITH ASSUMED ASBESTOS-CONTAINING MASTICS AT NEW ROOF PENETRATION.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

**LEGEND, BUILDING 02**

- VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
- CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
- ASBESTOS-CONTAINING BLACK FLOORING MASTICS UNDER WALLS SCHEDULED FOR DEMOLITION
- ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS
- PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



**1 BUILDING 2 FIRST FLOOR HAZARDS ABATEMENT PLAN**  
1/8" = 1'-0"




CONSULTANT

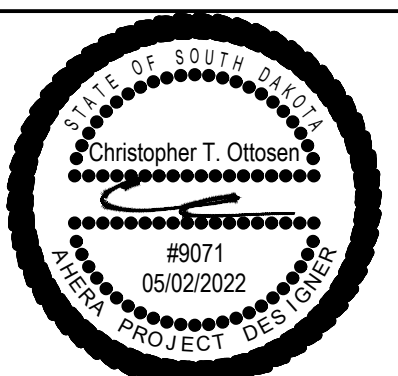
**HTRW** LLC  
HAZARDOUS BUILDING MATERIALS CONSULTING  
11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577  
(907) 812-3861 • (813) 622-7517 FAX • CONTACT@HTRWLLC.COM

ARCHITECT/ENGINEER OF RECORD


A/E:  
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1000 W STEUBEN STR, UNIT 3  
BINGEN, WA 98605  
541.436.4723  
ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

STAMP



PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

 U.S. Department  
of Veterans Affairs

DRAWING TITLE

02-FIRST & SECOND FLOOR  
HAZARDS ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

CHECKED BY

CTO

DRAWN BY

CTO

PROJECT NUMBER

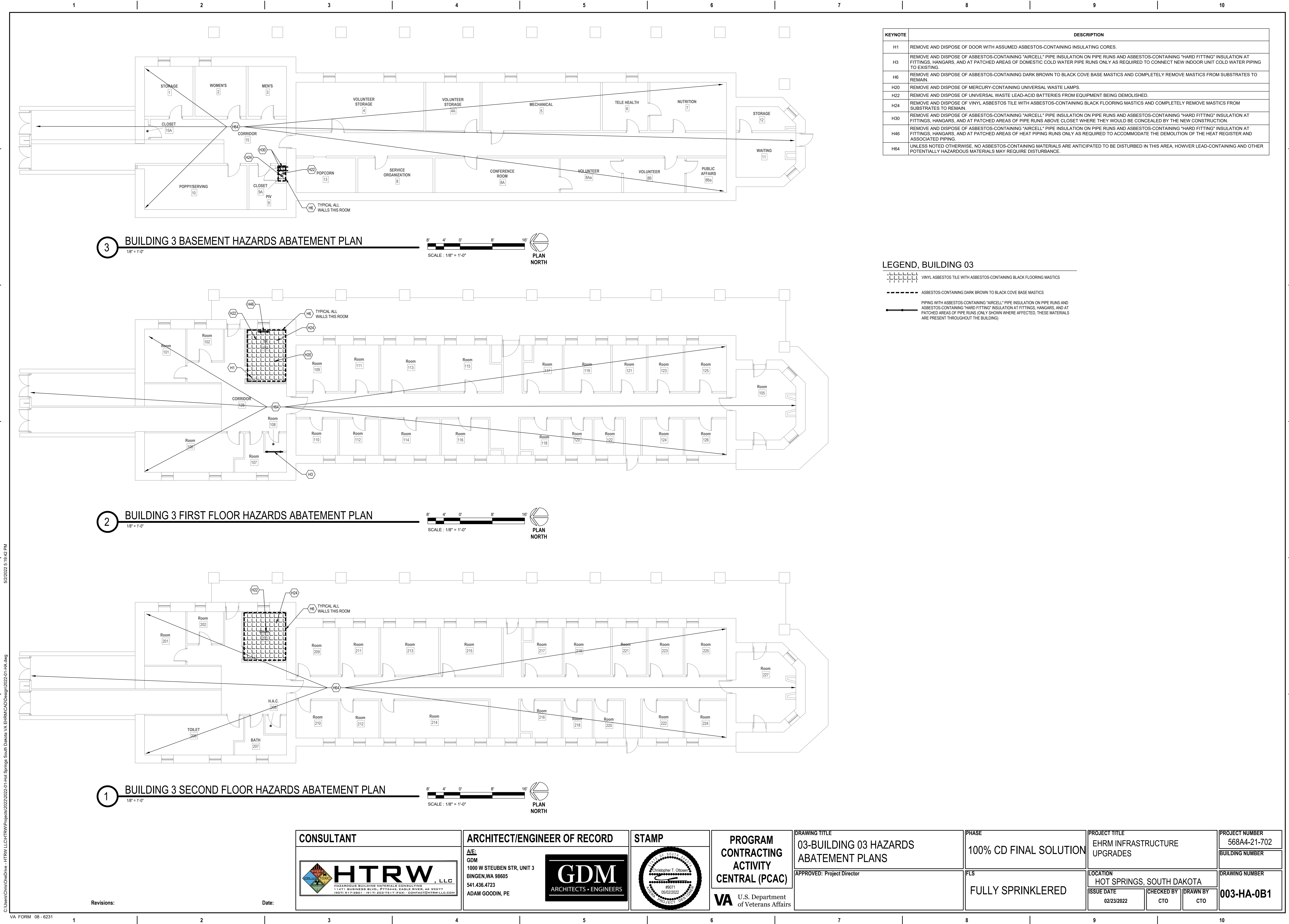
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BUILDING NUMBER

DRAWING NUMBER

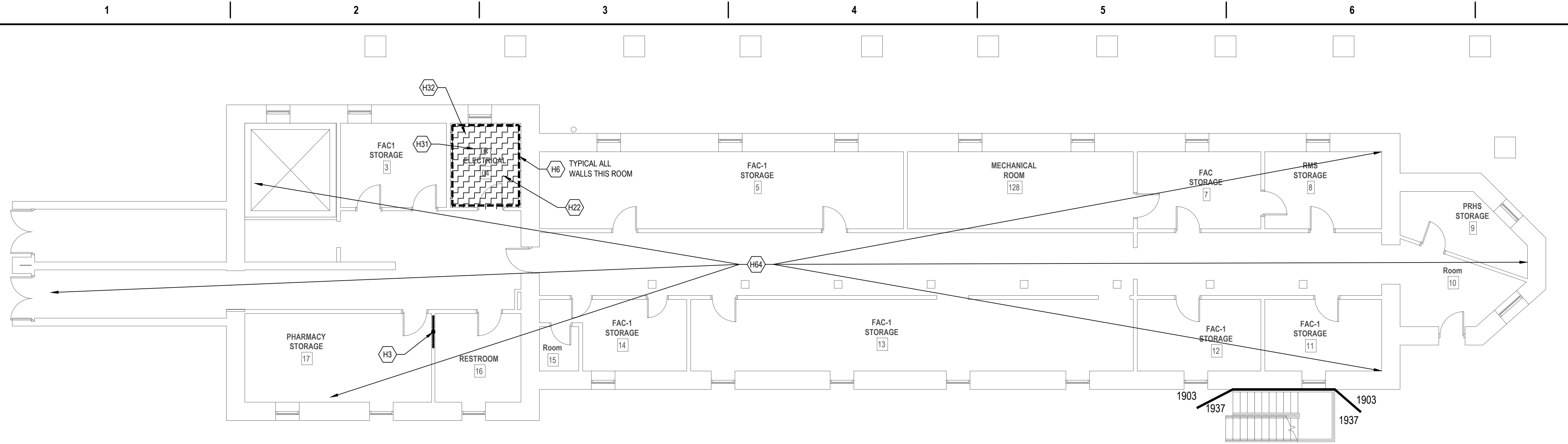
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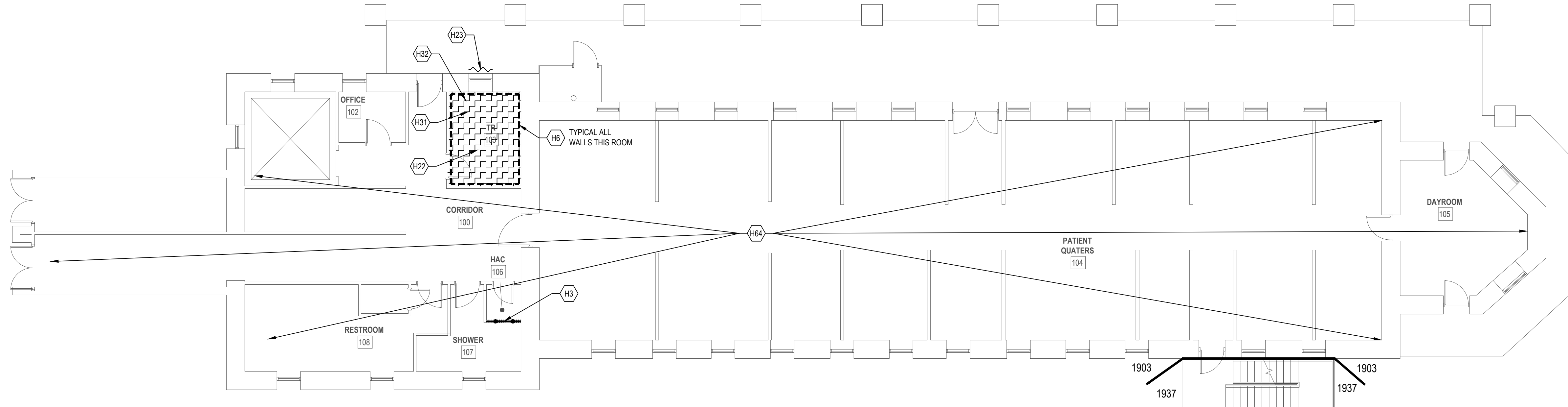
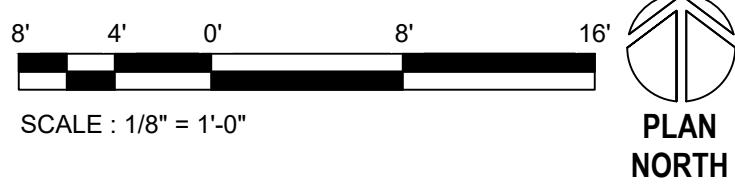




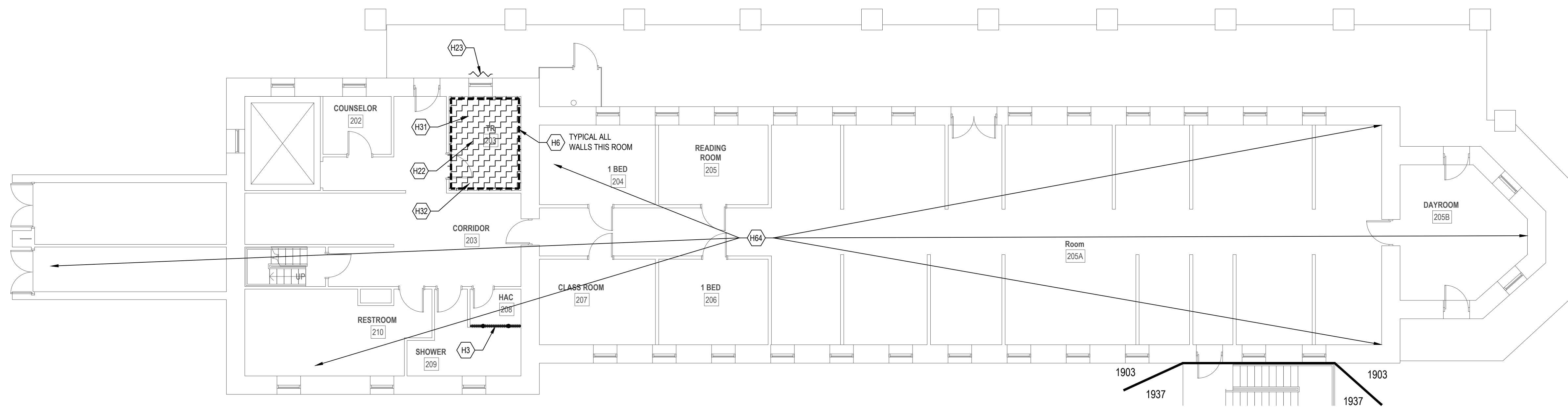
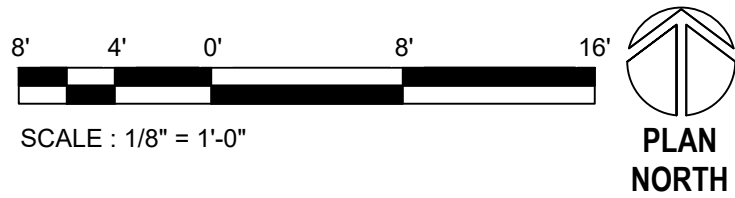
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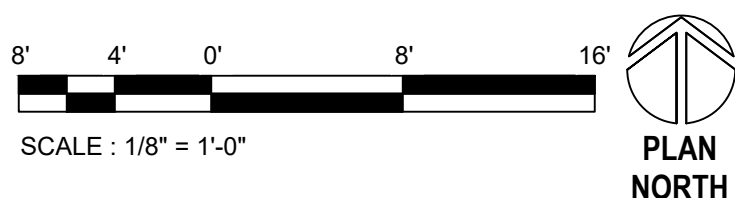
3 BUILDING 4 BASEMENT HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



2 BUILDING 4 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



1 BUILDING 4 SECOND FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



KEYNOTE	DESCRIPTION
H3	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF DOMESTIC COLD WATER PIPE RUNS ONLY AS REQUIRED TO CONNECT NEW INDOOR UNIT COLD WATER PIPING TO EXISTING.
H6	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H23	REMOVE AND DISPOSE OF LOWER RECTANGULAR WINDOW WITH ASSUMED ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND ASSUMED ASBESTOS-CONTAINING PERIMETER SEALANTS.
H31	REMOVE AND DISPOSE OF NEWER NON-ASBESTOS-CONTAINING 17.5" X 17.5" VINYL FLOOR TILES CONTAMINATED WITH ASBESTOS-CONTAINING BLACK FLOORING MASTIC AND COMPLETELY REMOVE MASTIC FROM SUBSTRATES TO REMAIN.
H32	RECOVER AND DISPOSE OF OR RECYCLE OZONE DEPLETING SUBSTANCES FROM AFFECTED INTERIOR AND EXTERIOR AIR CONDITIONING EQUIPMENT.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 04

- NEWER NON-ASBESTOS-CONTAINING 17.5" X 17.5" VINYL FLOOR TILES CONTAMINATED WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
- ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS
- PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)
- EXTERIOR WINDOW WITH ASBESTOS-CONTAINING WINDOW GLAZING COMPOUNDS AND ASBESTOS-CONTAINING PERIMETER SEALANTS

CONSULTANT

**HTRW** LLC

HAZARDOUS BUILDING MATERIALS CONSULTING  
11471 BUSINESS BLVD. #73442, EAGLE RIVER, AK 99577  
(907) 612-3861 • (813) 622-7517 (FAX) • CONTACT@HTRW.LLC.COM

ARCHITECT/ENGINEER OF RECORD

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GDM

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BINGEN, WA 98605  
541.436.4723  
ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

STAMP

Christopher T. Ottosen  
#0071  
05/02/2022  
Professional Engineer  
State of Washington

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

DRAWING TITLE

04-BUILDING 04 HAZARDS  
ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

CHECKED BY

CTO

DRAWN BY

CTO

PROJECT NUMBER

568A4-21-702

BUILDING NUMBER

DRAWING NUMBER

004-HA-0B1





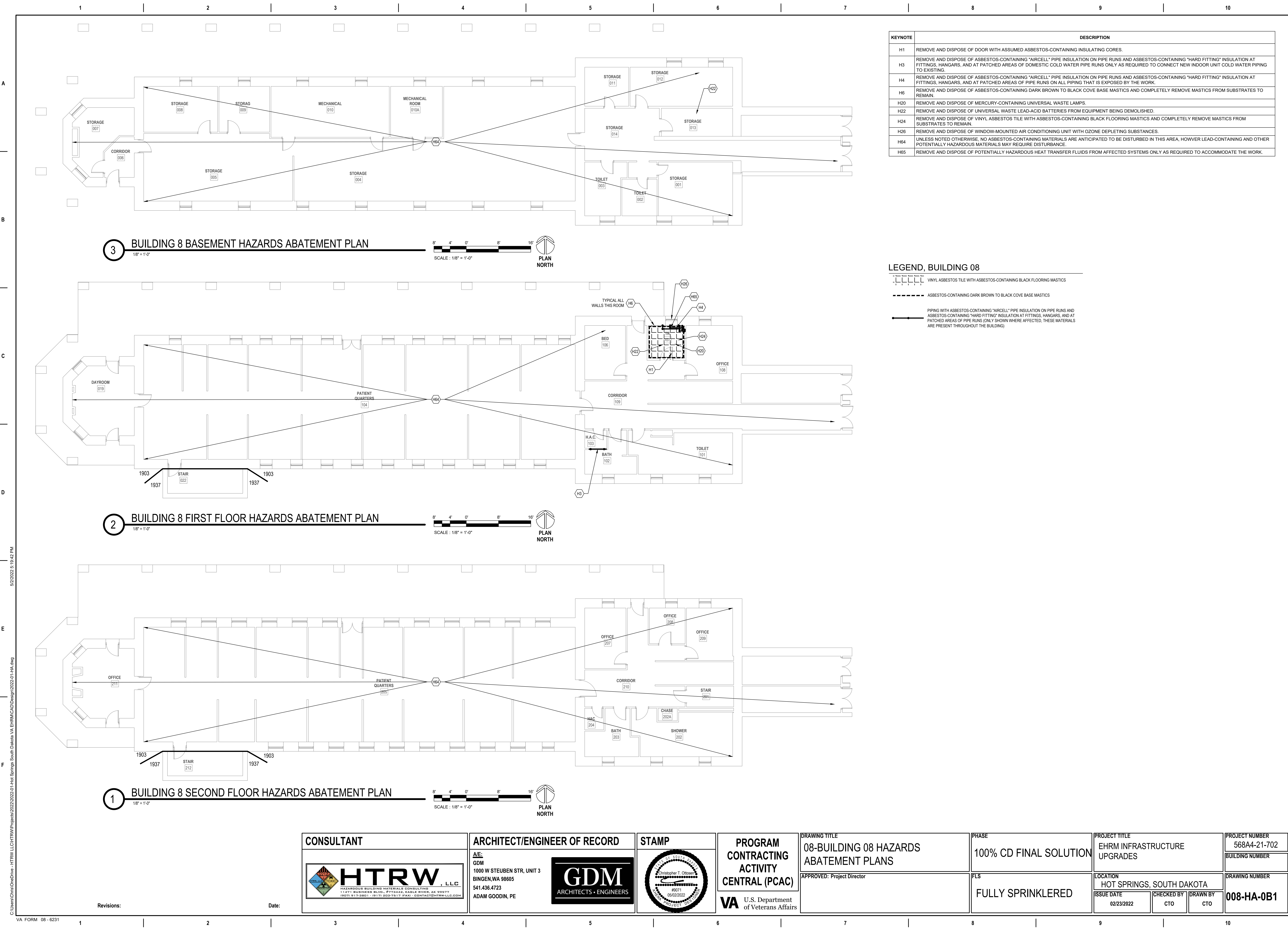












KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H3	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF DOMESTIC COLD WATER PIPE RUNS ONLY AS REQUIRED TO CONNECT NEW INDOOR UNIT COLD WATER PIPING TO EXISTING.
H4	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS ON ALL PIPING THAT IS EXPOSED BY THE WORK.
H6	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H24	REMOVE AND DISPOSE OF VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H26	REMOVE AND DISPOSE OF WINDOW-MOUNTED AIR CONDITIONING UNIT WITH OZONE DEPLETING SUBSTANCES.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.
H65	REMOVE AND DISPOSE OF POTENTIALLY HAZARDOUS HEAT TRANSFER FLUIDS FROM AFFECTED SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.

LEGEND, BUILDING 08	
	VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING DARK BROWN TO BLACK COVE BASE MASTICS
	PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

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Revisions:

Date:

CONSULTANT

**HTRW** LLC  
HAZARDOUS BUILDING MATERIALS CONSULTING  
11471 BUSINESS BLVD., #73442, EAGLE RIVER, AK 99577  
(907) 912-3861 • (907) 922-7517 FAX • CONTACT@HTRWLLC.COM

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ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

STAMP

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

U.S. Department  
of Veterans Affairs

DRAWING TITLE

08-BUILDING 08 HAZARDS  
ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

CHECKED BY

CTO

DRAWN BY

CTO

PROJECT NUMBER

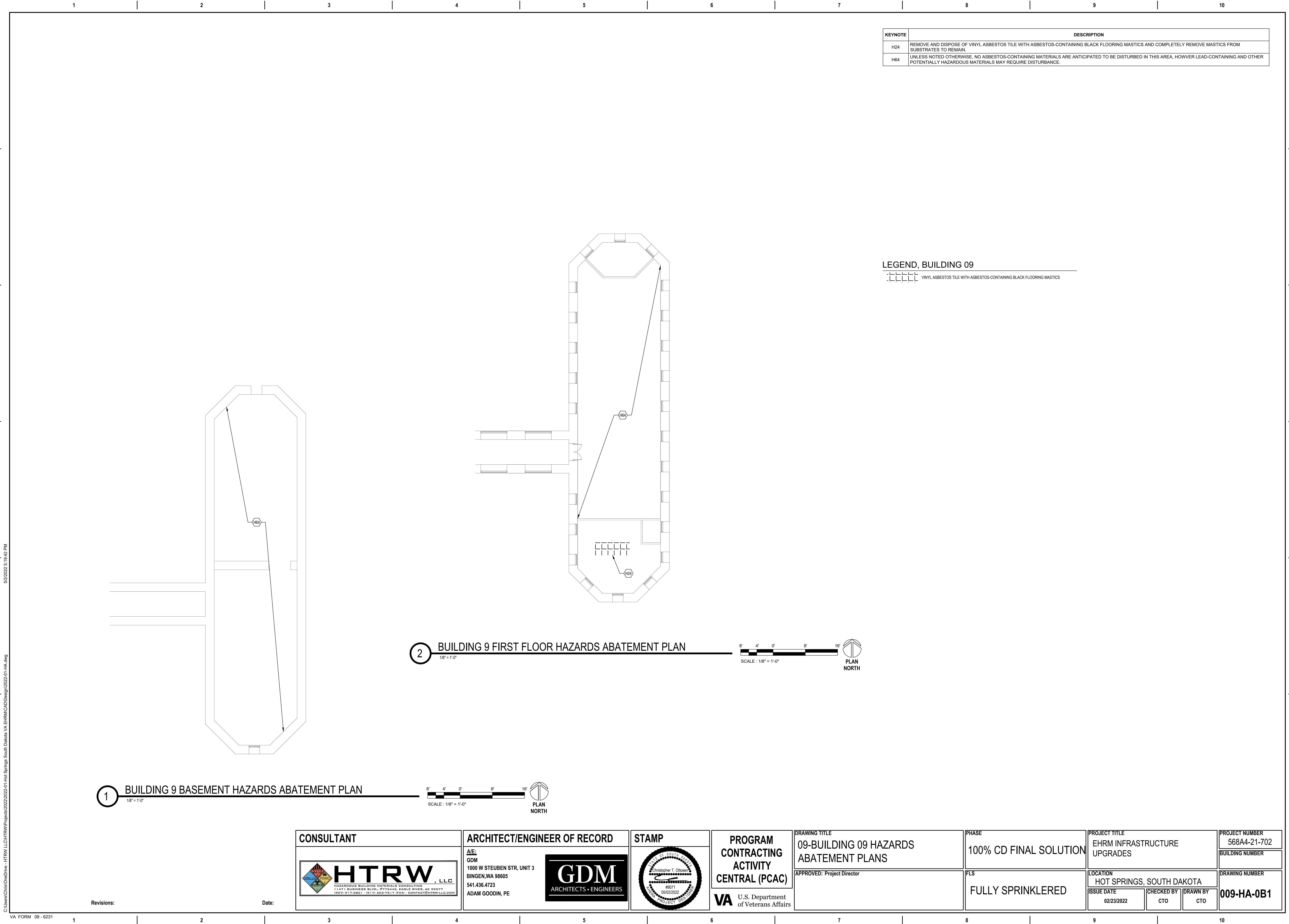
568A4-21-702

BUILDING NUMBER

DRAWING NUMBER

008-HA-0B1







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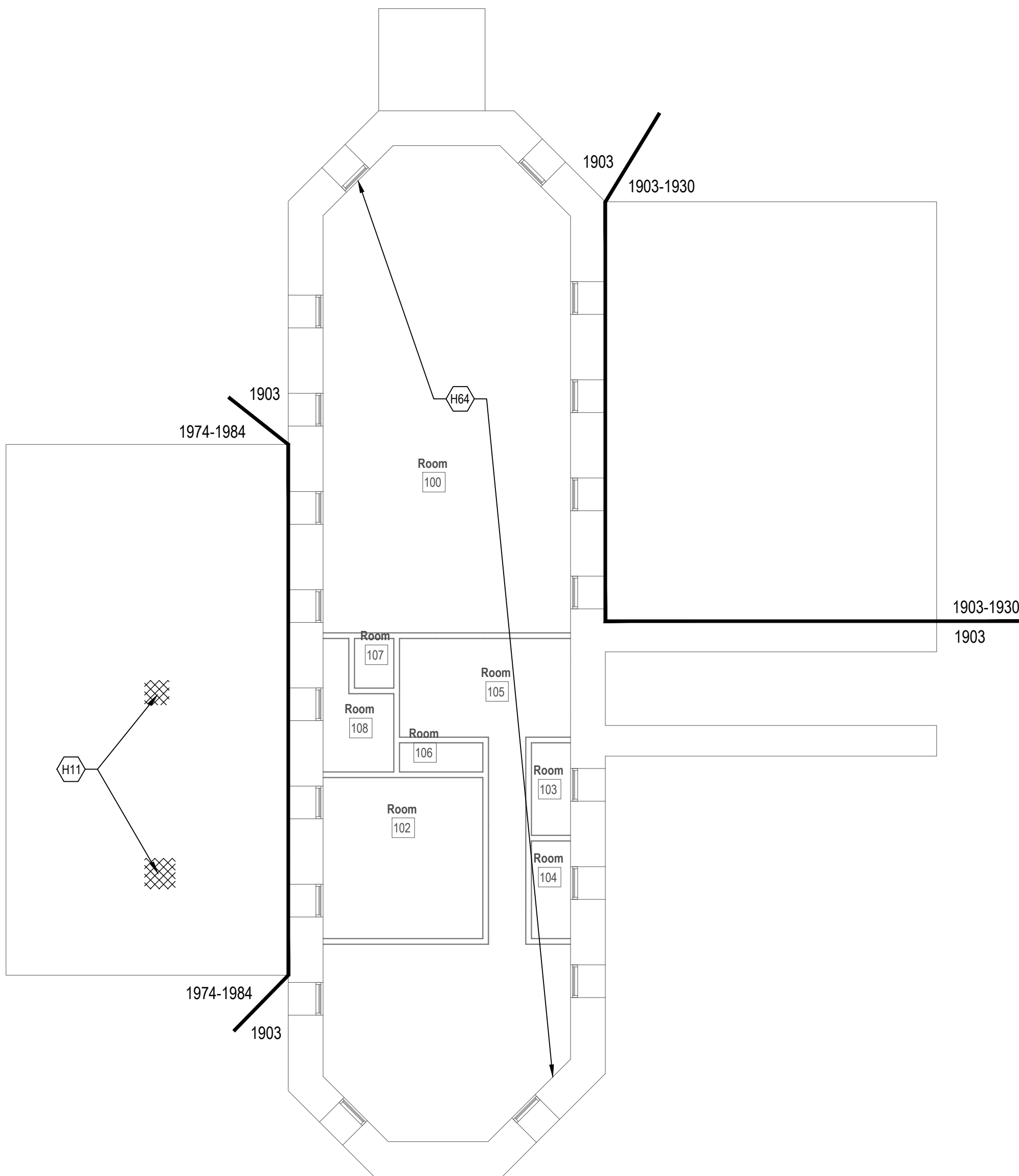
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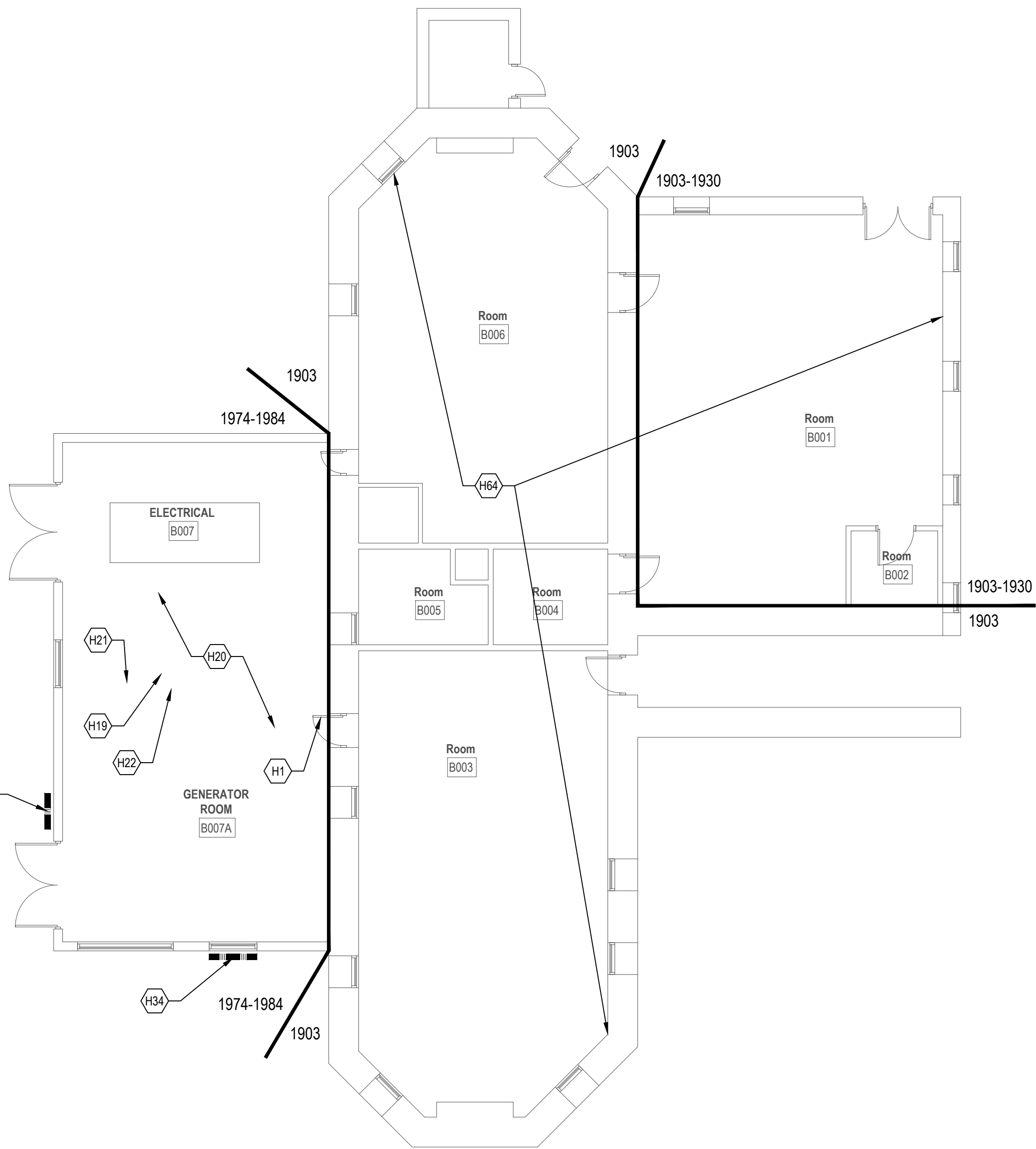
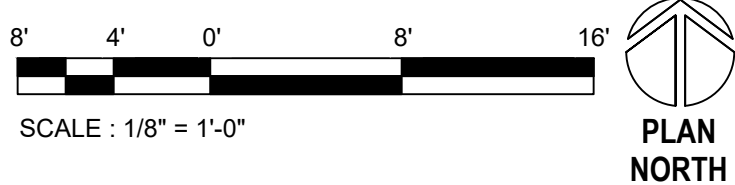
KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H11	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING BUILT-UP ROOFING WITH ASSUMED ASBESTOS-CONTAINING "SILVERSEAL" ROOF COATING AS SHOWN.
H19	REMOVE AND DISPOSE OF GENERATOR WITH ASSUMED ASBESTOS-CONTAINING GASKETS AND SEALANTS.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H21	REMOVE AND DISPOSE OF POTENTIALLY HAZARDOUS HEAT TRANSFER FLUIDS FROM GENERATOR COOLING SYSTEM.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H34	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING EXTERIOR WALL TEXTURE ONLY AS REQUIRED TO ACCOMMODATE THE WORK.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 10

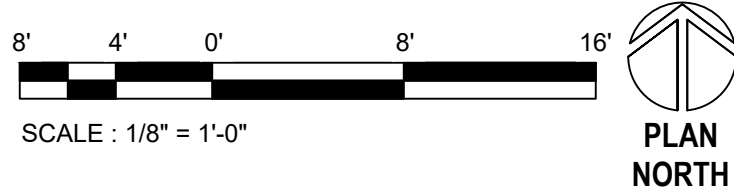
-  ASSUMED ASBESTOS-CONTAINING BUILT-UP ROOFING WITH ASSUMED ASBESTOS-CONTAINING "SILVERSEAL" ROOF COATING
-  ASBESTOS-CONTAINING EXTERIOR WALL TEXTURE



2 BUILDING 10 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



1 BUILDING 10 BASEMENT HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"




CONSULTANT

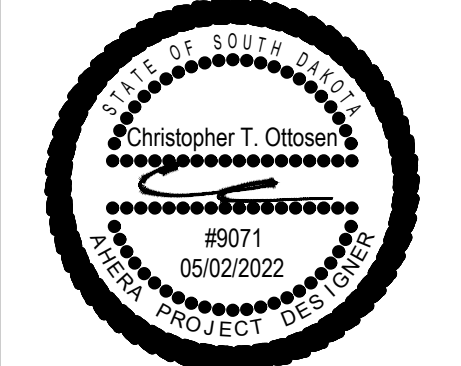
**HTRW** LLC  
HAZARDOUS BUILDING MATERIALS CONSULTING  
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ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

STAMP



PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

 U.S. Department  
of Veterans Affairs

DRAWING TITLE

10-BUILDING 10 HAZARDS  
ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

CHECKED BY

CTO

DRAWN BY

CTO

PROJECT NUMBER

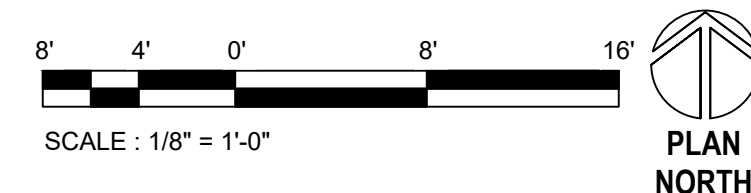
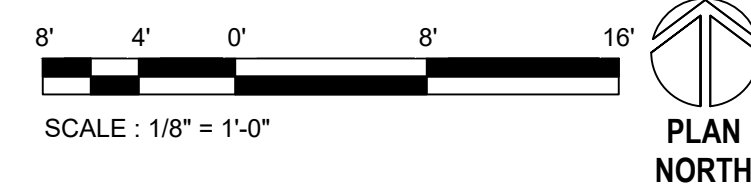
568A4-21-702

BUILDING NUMBER

DRAWING NUMBER

010-HA-0B1



F

PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



KEYNOTE	DESCRIPTION
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H55	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING HARD GREY-GREEN PENETRATION SEALANTS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

**LEGEND, BUILDING 12**

VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

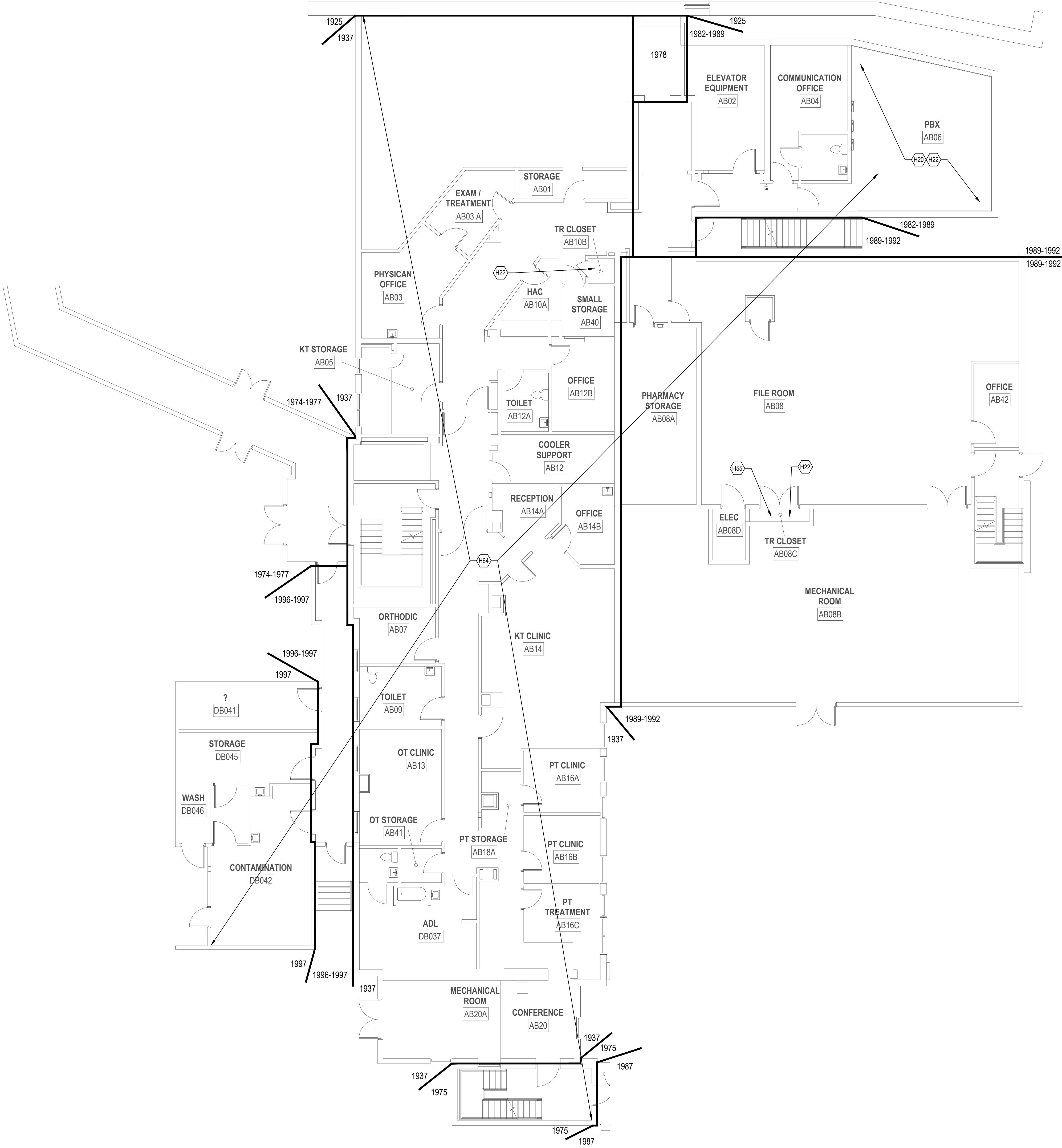
ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS

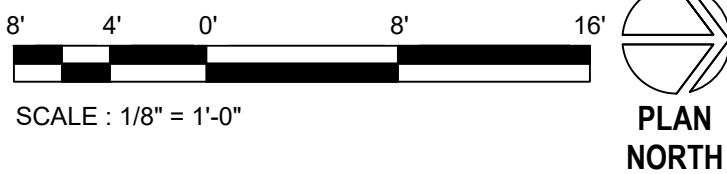
CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS

CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

PIPING WITH ASBESTOS-CONTAINING "ARCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



**1** BUILDING 12 BASEMENT HAZARDS ABATEMENT PLAN - SECTOR A  
1/8" = 1'-0"



CONSULTANT

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ARCHITECT/ENGINEER OF RECORD

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541.436.4723  
ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

STAMP

PROGRAM CONTRACTING ACTIVITY  
CENTRAL (PCAC)

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE  
12-BASEMENT SECTOR A HAZARDS ABATEMENT PLANS

APPROVED: Project Director

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
CTO

DRAWN BY  
CTO

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER

DRAWING NUMBER  
**012-HA-0BA**



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KEYNOTE	DESCRIPTION
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H24	REMOVE AND DISPOSE OF VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H54	CRAWLSPACE HAS ASBESTOS-CONTAMINATED SOILS AND SHALL BE ENTERED ONLY BY PROPERLY TRAINED AND PROTECTED WORKERS.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 12

VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

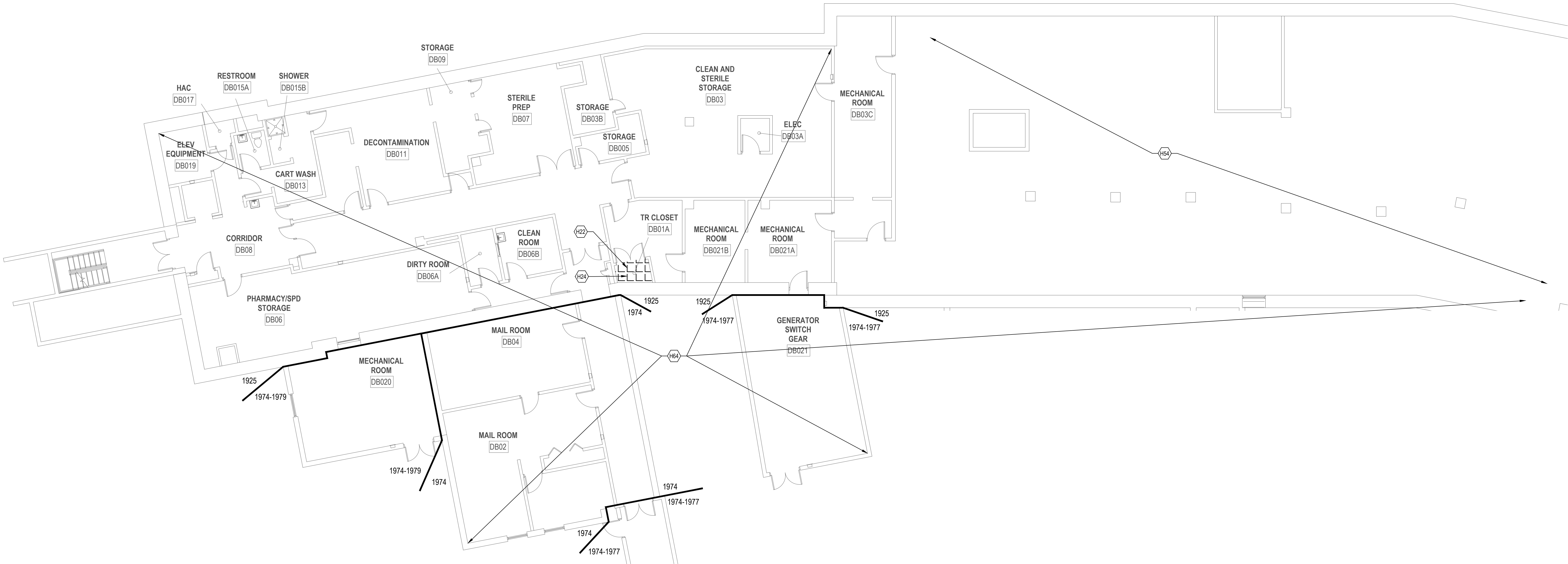
ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS

CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS



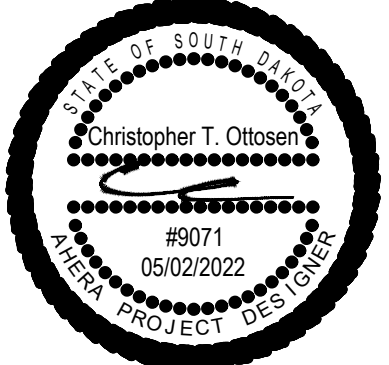

CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

PIPING WITH ASBESTOS-CONTAINING 'ARCCELL' PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING 'HARD FITTING' INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

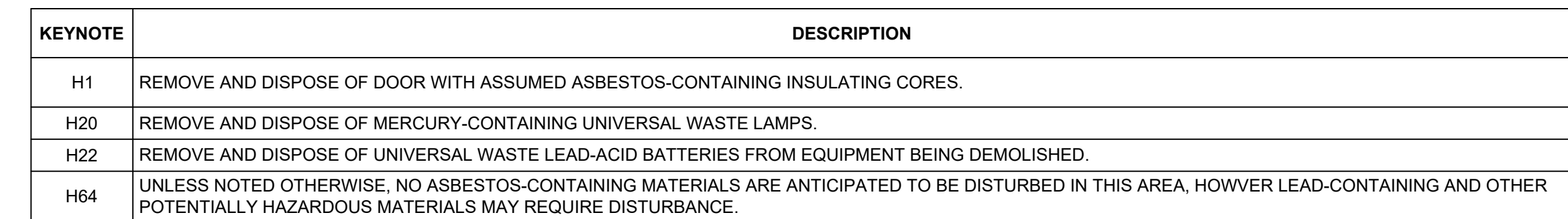


1 BUILDING 12 BASEMENT HAZARDS ABATEMENT PLAN - SECTOR D  
1/8" = 1'-0"



CONSULTANT  HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #73442, EAGLE RIVER, AK 99577 (907) 817-3861 • (907) 822-7517 FAX • CONTACT@HTRW.LLC.COM	ARCHITECT/ENGINEER OF RECORD A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE 	STAMP 	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)  U.S. Department of Veterans Affairs	DRAWING TITLE 12-BASEMENT SECTOR D HAZARDS ABATEMENT PLANS APPROVED: Project Director	PHASE 100% CD FINAL SOLUTION FLS FULLY SPRINKLERED	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES LOCATION HOT SPRINGS, SOUTH DAKOTA ISSUE DATE 02/23/2022	CHECKED BY CTO	DRAWN BY CTO	PROJECT NUMBER 568A4-21-702 BUILDING NUMBER DRAWING NUMBER 012-HA-0BD





	VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS
	CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	PIPING WITH ASBESTOS-CONTAINING "ARCCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGERS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWING WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

8' 4' 0' 8' 16'

SCALE : 1/8" = 1'-0"

PLAN  
NORTH

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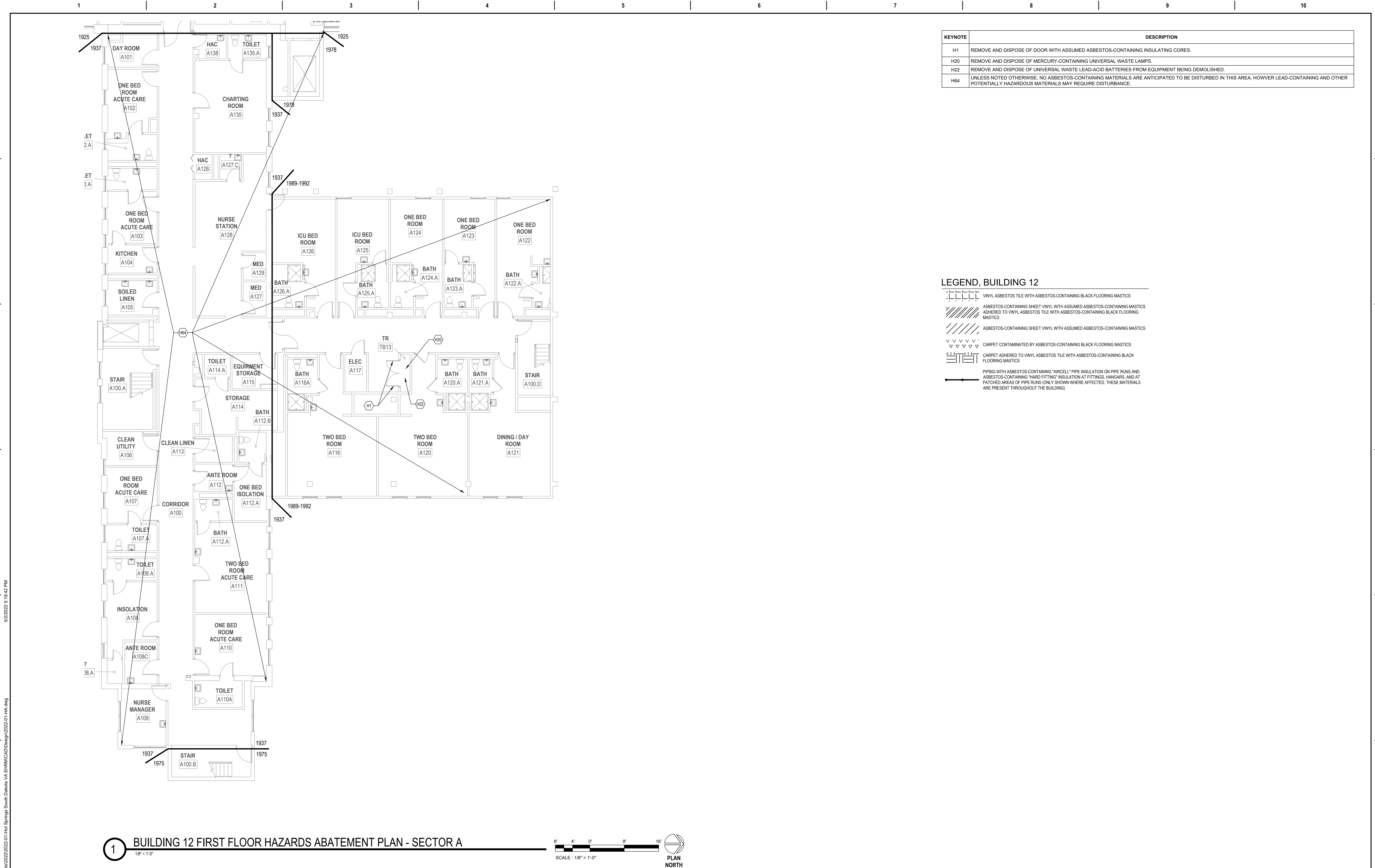






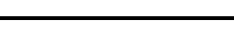
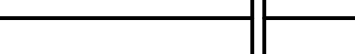







KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

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CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)		DRAWING TITLE		PHASE		PROJECT TITLE		PROJECT NUMBER	
<div> <b>HTRW</b>, LLC HAZARDOUS BUILDING MATERIALS CONSULTING 13471 BUSINESS BLVD., #773429, KADLE INVER, AR 99377 (202) 947-2801 • (509) 225-9319 (FAX) • CONTACT@HTRW-LLC.COM</div>		<div><div>A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE</div><div></div></div>		<div></div>		12-FIRST FLOOR SECTOR A HAZARDS ABATEMENT PLANS		100% CD FINAL SOLUTION		EHRM INFRASTRUCTURE UPGRADES		568A4-21-702			
														BUILDING NUMBER	
						APPROVED: Project Director		FLS		FULLY SPRINKLERED		LOCATION		DRAWING NUMBER	
												HOT SPRINGS, SOUTH DAKOTA		012-HA-01A	
												ISSUE DATE		CHECKED BY	
												02/23/2022		CTO	
												DRAWN BY		CTO	
						VA U.S. Department of Veterans Affairs									



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KEYNOTE	DESCRIPTION
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 12

VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS

CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS

CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

PIPING WITH ASBESTOS-CONTAINING "ARCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



1

BUILDING 12 FIRST FLOOR HAZARDS ABATEMENT PLAN - SECTOR B

1/8" = 1'-0"

8'

4'

0'

8'

16'

SCALE : 1/8" = 1'-0"

PLAN

NORTH

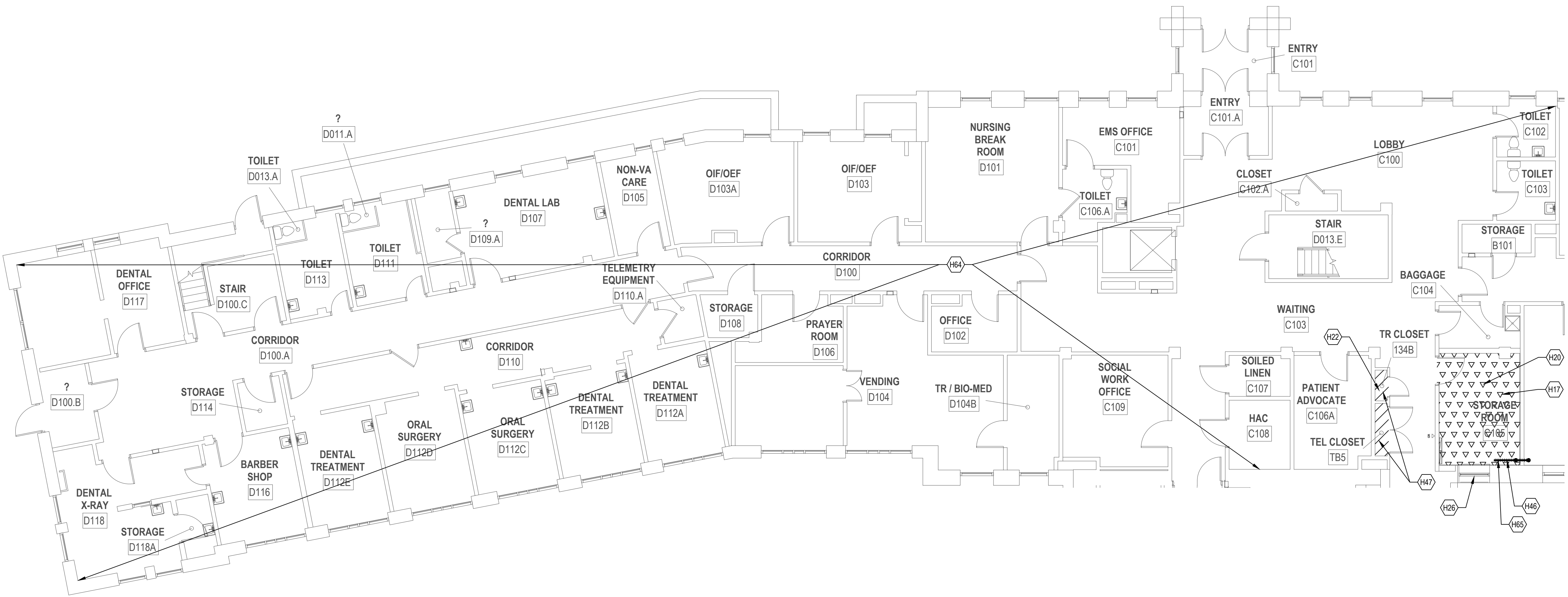
CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)	DRAWING TITLE 12-FIRST FLOOR SECTOR B HAZARDS ABATEMENT PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES		PROJECT NUMBER 568A4-21-702	
						BUILDING NUMBER		DRAWING NUMBER	
Revisions:	Date:			APPROVED: Project Director	FLS FULLY SPRINKLERED	LOCATION HOT SPRINGS, SOUTH DAKOTA		DRAWING NUMBER 012-HA-01B	
						ISSUE DATE 02/23/2022	CHECKED BY CTO	DRAWN BY CTO	





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KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H17	REMOVE AND DISPOSE OF CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE ASBESTOS-CONTAINING MASTICS FROM SUBSTRATES TO REMAIN.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H24	REMOVE AND DISPOSE OF VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H26	REMOVE AND DISPOSE OF WINDOW-MOUNTED AIR CONDITIONING UNIT WITH OZONE DEPLETING SUBSTANCES.
H46	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF HEAT PIPING RUNS ONLY AS REQUIRED TO ACCOMMODATE THE DEMOLITION OF THE HEAT REGISTER AND ASSOCIATED PIPING.
H47	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING VINYL FLOOR TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTIC AND COMPLETELY REMOVE MASTIC FROM SUBSTRATES TO REMAIN.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.
H65	REMOVE AND DISPOSE OF POTENTIALLY HAZARDOUS HEAT TRANSFER FLUIDS FROM AFFECTED SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.

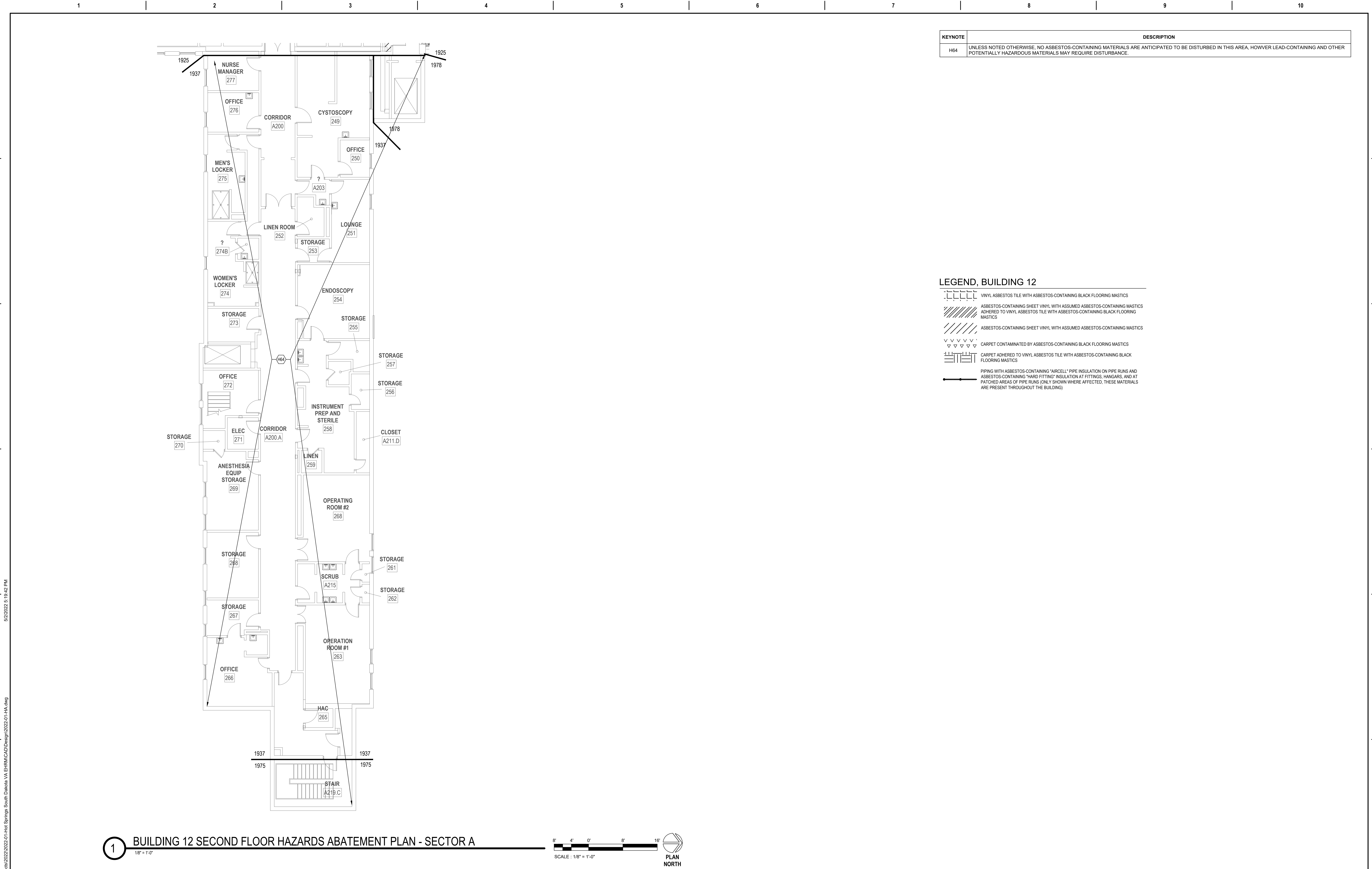
LEGEND, BUILDING 12	
	VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS
	CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



1 BUILDING 12 FIRST FLOOR HAZARDS ABATEMENT PLAN - SECTORS C AND D  
1/8" = 1'-0"  
8" 4" 0" 8" 16"  
SCALE: 1/8" = 1'-0"  
PLAN NORTH

<div>CONSULTANT</div> <div><div><div><div>HTRW</div><div>HAZARDOUS BUILDING MATERIALS CONSULTING</div><div>11471 BUSINESS BLVD., #73442, EAGLE RIVER, AK 99577</div><div>(907) 612-3861 • (907) 622-7517 (FAX) • CONTACT@HTRW.LLC.COM</div></div></div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div><div>A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE</div><div><div>GDM</div><div>ARCHITECTS - ENGINEERS</div></div></div></div>		<div>STAMP</div> <div><div></div></div>		<div>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</div> <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>		<div>DRAWING TITLE</div> <div>12-FIRST FLOOR SECTORS C&amp;D HAZARDS ABATEMENT PLANS</div> <div><div>APPROVED: Project Director</div></div>		<div>PHASE</div> <div>100% CD FINAL SOLUTION</div> <div>FLS</div> <div>FULLY SPRINKLERED</div>		<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>LOCATION</div> <div>HOT SPRINGS, SOUTH DAKOTA</div> <div><div>ISSUE DATE</div><div>02/23/2022</div><div><div>CHECKED BY</div><div>CTO</div></div><div><div>DRAWN BY</div><div>CTO</div></div></div>		<div>PROJECT NUMBER</div> <div>568A4-21-702</div> <div>BUILDING NUMBER</div> <div></div> <div>DRAWING NUMBER</div> <div>012-HA-01CD</div>	
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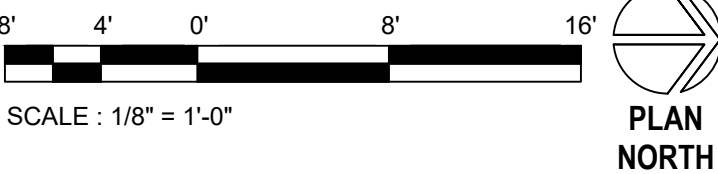


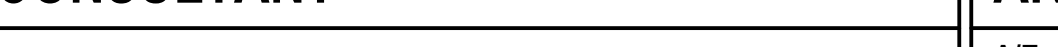



KEYNOTE	DESCRIPTION
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 12	
	VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS
	CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	PIPING WITH ASBESTOS-CONTAINING 'ARCELL' PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING 'HARD FITTING' INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

1 BUILDING 12 SECOND FLOOR HAZARDS ABATEMENT PLAN - SECTOR A  
1/8" = 1'-0"



CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)		DRAWING TITLE		PHASE		PROJECT TITLE		PROJECT NUMBER			
 <b>HTRW</b> , LLC HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577 (907) 917-3861 • (813) 622-7517 (FAX) • CONTACT@HTRW-LLC.COM		<b>A/E:</b> GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE				<b>VA</b> U.S. Department of Veterans Affairs		12-SECOND FLOOR SECTOR A HAZARDS ABATEMENT PLANS		100% CD FINAL SOLUTION		EHRM INFRASTRUCTURE UPGRADES		568A4-21-702			
								APPROVED: Project Director		FLS		LOCATION HOT SPRINGS, SOUTH DAKOTA		BUILDING NUMBER			
										FULLY SPRINKLERED		ISSUE DATE 02/23/2022		CHECKED BY CTO		DRAWN BY CTO	
																DRAWING NUMBER <b>012-HA-02A</b>	



KEYNOTE	DESCRIPTION
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 12

VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS

CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS

CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS

PIPING WITH ASBESTOS-CONTAINING "ARCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



1




BUILDING 12 SECOND FLOOR HAZARDS ABATEMENT PLAN - SECTOR B

1/8" = 1'-0"

8" 4" 0" 8" 16"

SCALE : 1/8" = 1'-0"

PLAN NORTH

CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)	DRAWING TITLE	PHASE	PROJECT TITLE		PROJECT NUMBER
 HARRISBURG TRADING MATERIALS CORP. LLC 11271 BUSINESS BLVD., #73242, EAGLE RIVER, AK 99677 907.617-3881 - (607) 203-9751 FAX - CONTACT@HTRWLLC.COM		 GDM ARCHITECTS + ENGINEERS			12-SECOND FLOOR SECTOR B HAZARDS ABATEMENT PLANS	100% CD FINAL SOLUTION	EHRM INFRASTRUCTURE UPGRADES		568A4-21-702	
						BUILDING NUMBER				
					APPROVED: Project Director	FLS	LOCATION		DRAWING NUMBER	
						FULLY SPRINKLERED	HOT SPRINGS, SOUTH DAKOTA		012-HA-02B	
							ISSUE DATE	CHECKED BY	DRAWN BY	
							02/23/2022	CTO	CTO	



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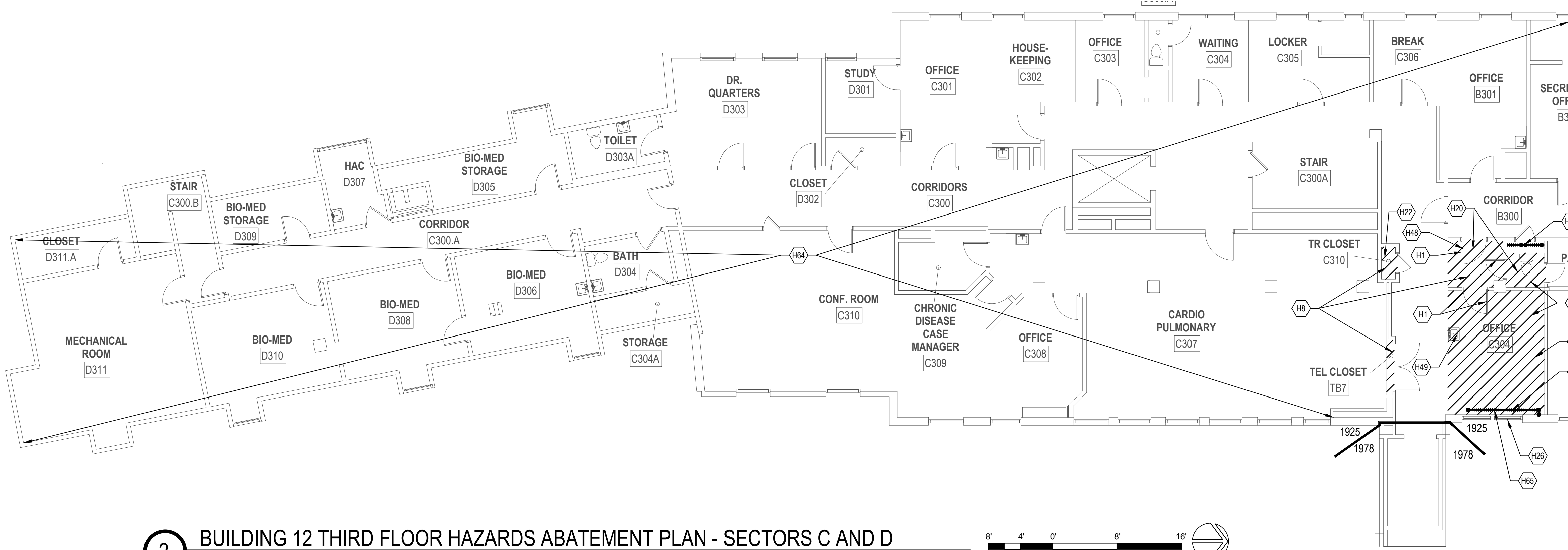
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C

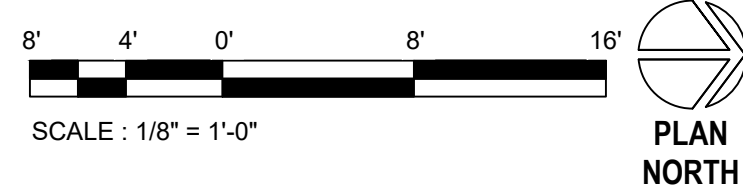
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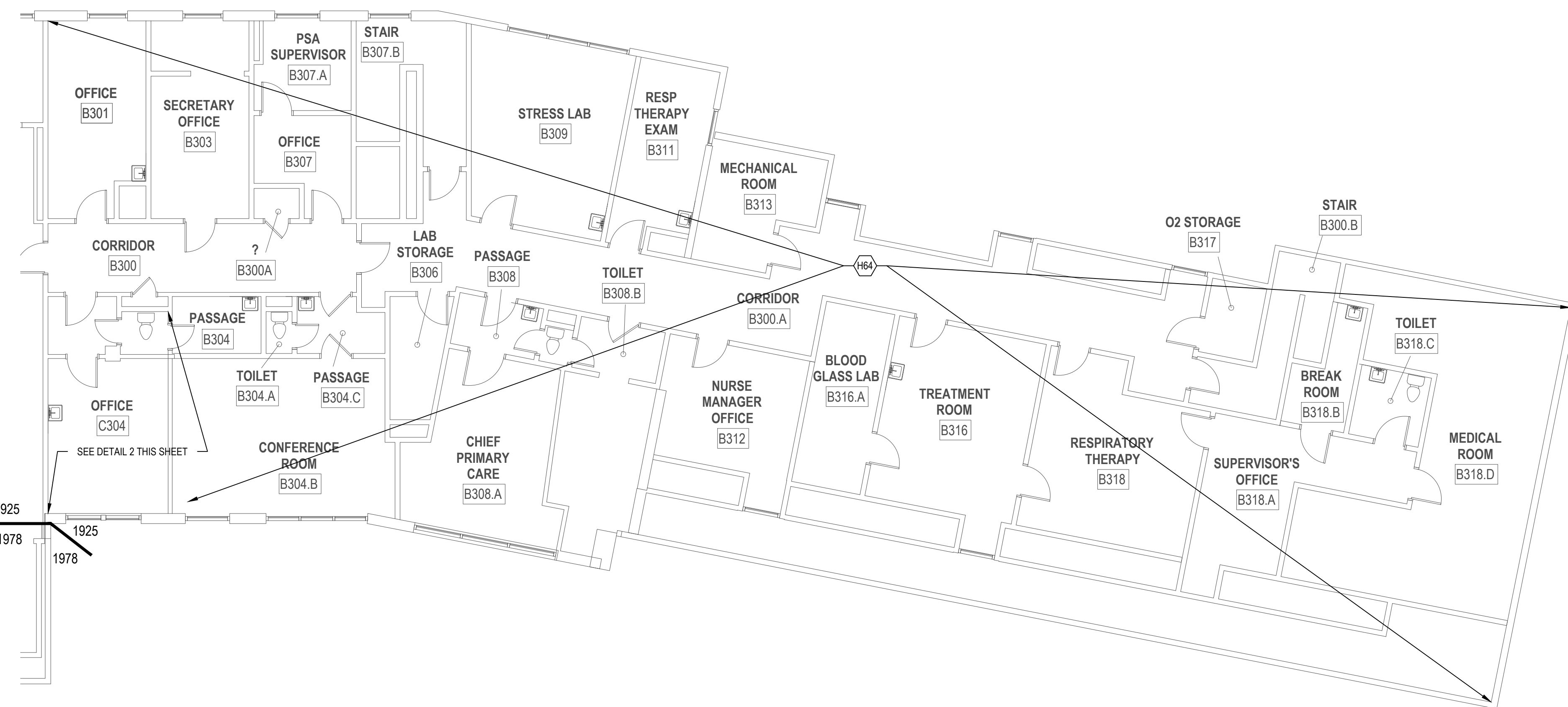
2 BUILDING 12 THIRD FLOOR HAZARDS ABATEMENT PLAN - SECTORS C AND D  
1/8" = 1'-0"



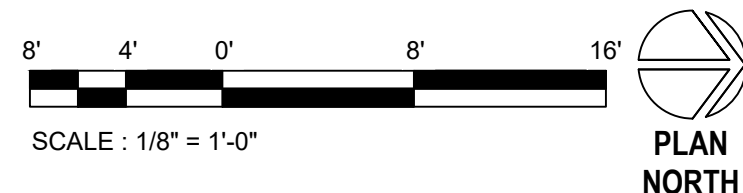
KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H8	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H26	REMOVE AND DISPOSE OF WINDOW-MOUNTED AIR CONDITIONING UNIT WITH OZONE DEPLETING SUBSTANCES.
H46	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF HEAT PIPING RUNS ONLY AS REQUIRED TO ACCOMMODATE THE DEMOLITION OF THE HEAT REGISTER AND ASSOCIATED PIPING.
H48	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING RESILIENT RUBBER DOOR COVER.
H49	REMOVE AND DISPOSE OF STAINLESS STEEL SINK WITH ASSUMED ASBESTOS-CONTAINING UNDERCOATING.
H51	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF HEAT PIPING RUNS ONLY AS REQUIRED TO ACCOMMODATE THE DEMOLITION OF THE TOILET AND ASSOCIATED PIPING.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.
H65	REMOVE AND DISPOSE OF POTENTIALLY HAZARDOUS HEAT TRANSFER FLUIDS FROM AFFECTED SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.

LEGEND, BUILDING 12


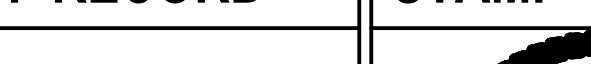
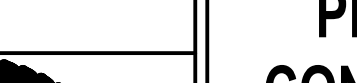
	VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS
	CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
	PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



1 BUILDING 12 THIRD FLOOR HAZARDS ABATEMENT PLAN - SECTOR B  
1/8" = 1'-0"



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CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)		DRAWING TITLE		PHASE		PROJECT TITLE		PROJECT NUMBER	
 HAZARDOUS BUILDING MATERIALS CONSULTING, LLC 11471 BUSINESS BLVD., #73442, EAGLE RIVER, AK 99577 (907) 817-3861 - (813) 622-7517 (FAX) - CONTACT@HTRW.LLC.COM		 ADAM GOODIN, PE				VA U.S. Department of Veterans Affairs		12-THIRD FLOOR HAZARDS ABATEMENT PLANS		100% CD FINAL SOLUTION		EHRM INFRASTRUCTURE UPGRADES		568A4-21-702	
								APPROVED: Project Director		FLS		LOCATION		BUILDING NUMBER	
										FULLY SPRINKLERED		HOT SPRINGS, SOUTH DAKOTA			
										ISSUE DATE		CHECKED BY		DRAWN BY	
										02/23/2022		CTO		CTO	
														012-HA-03BCD	



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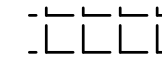


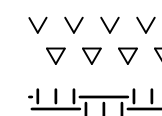
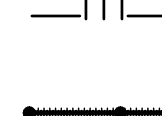

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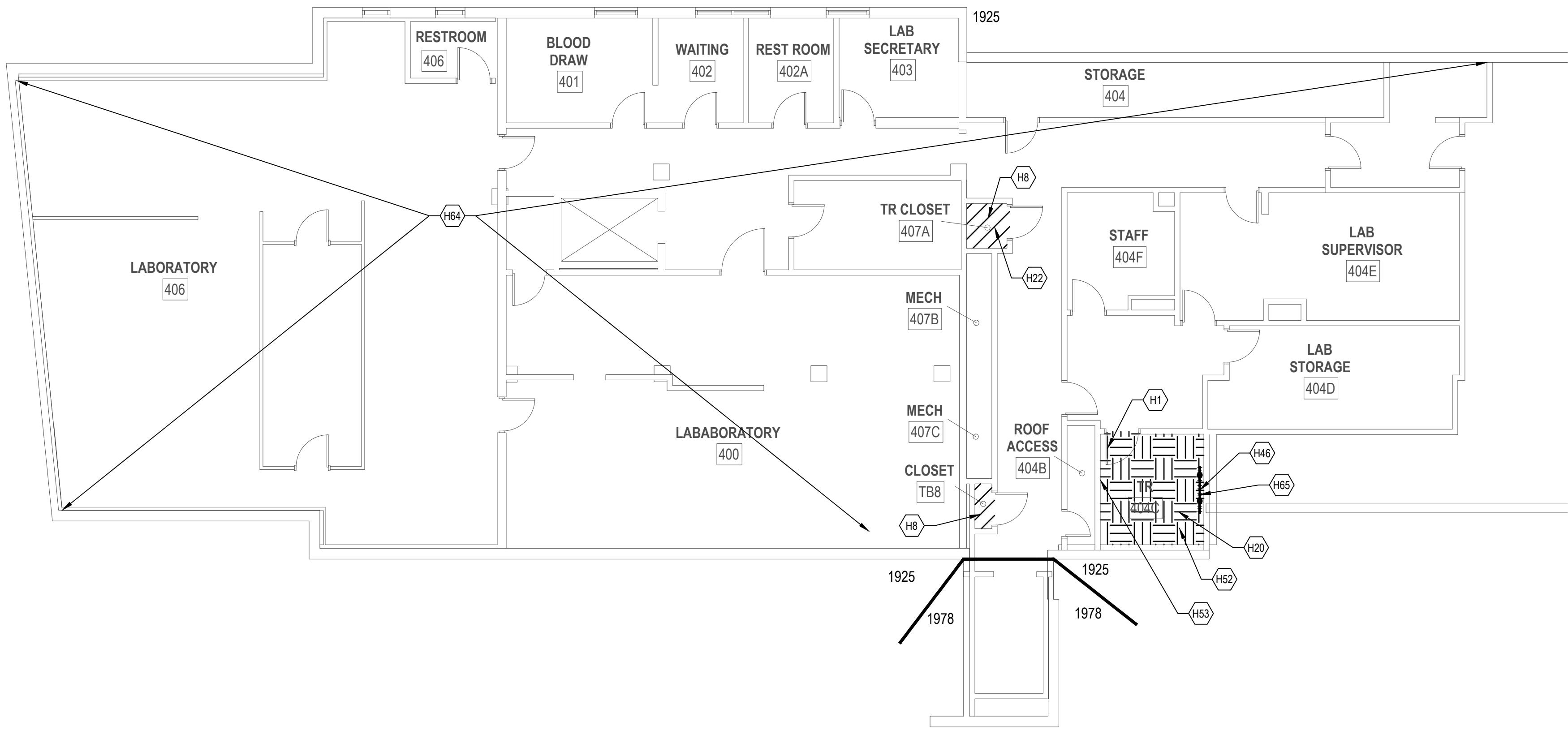
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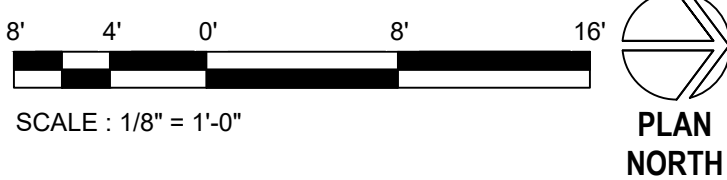
KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H8	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAMINATED MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H46	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF HEAT PIPING RUNS ONLY AS REQUIRED TO ACCOMMODATE THE DEMOLITION OF THE HEAT REGISTER AND ASSOCIATED PIPING.
H52	REMOVE AND DISPOSE OF CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS AND COMPLETELY REMOVE MASTICS FROM SUBSTRATES TO REMAIN.
H53	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DARK OLIVE GREEN PENETRATION PUTTIES ONLY AS REQUIRED TO ACCOMMODATE THE WORK.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.
H65	REMOVE AND DISPOSE OF POTENTIALLY HAZARDOUS HEAT TRANSFER FLUIDS FROM AFFECTED SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.



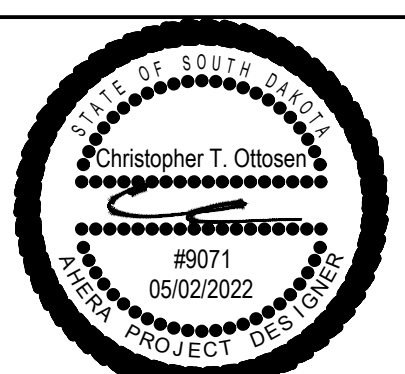
LEGEND, BUILDING 12

-  VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  ASBESTOS-CONTAINING SHEET VINYL WITH ASSUMED ASBESTOS-CONTAINING MASTICS
-  CARPET CONTAMINATED BY ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  CARPET ADHERED TO VINYL ASBESTOS TILE WITH ASBESTOS-CONTAINING BLACK FLOORING MASTICS
-  PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

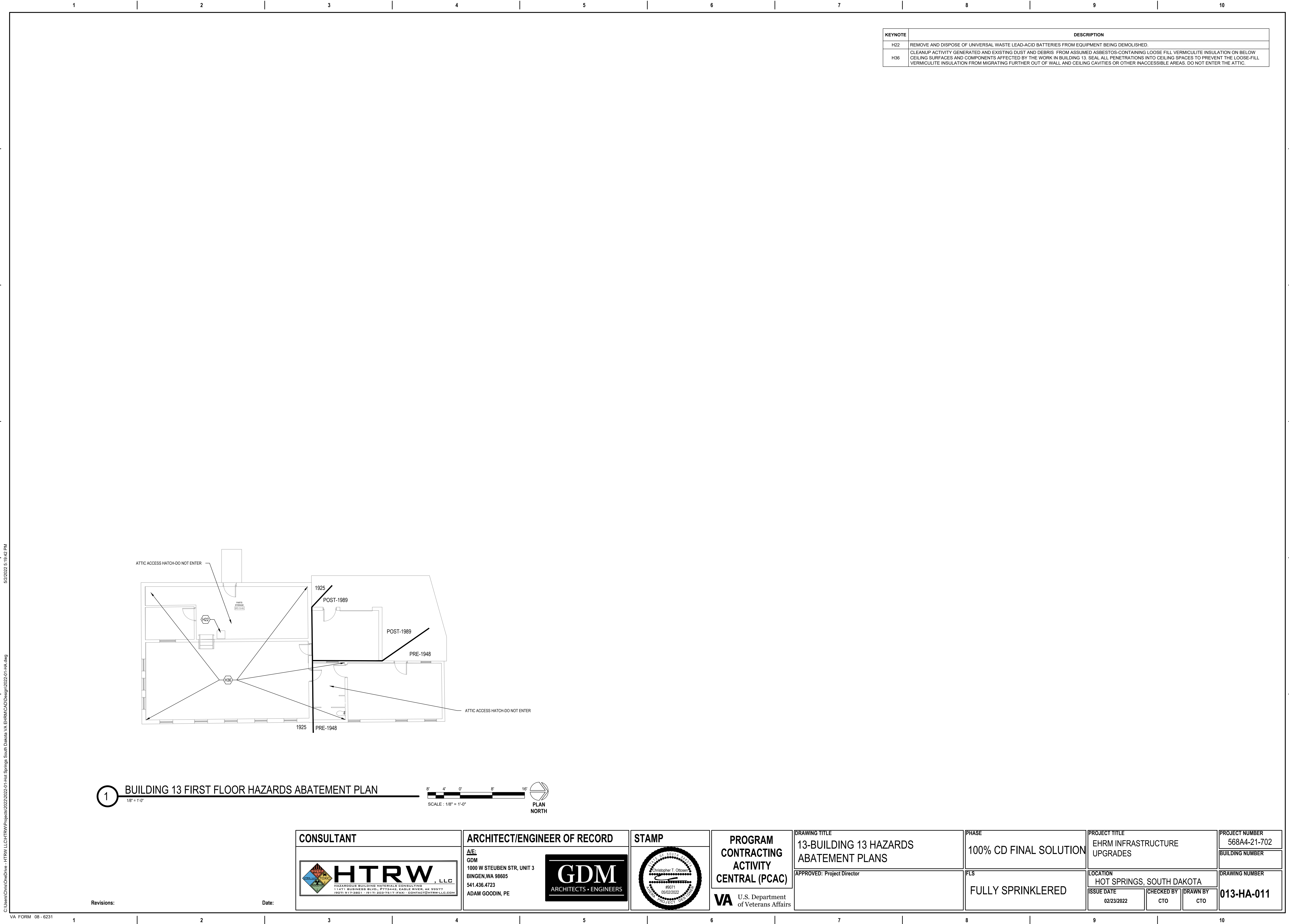


**1** BUILDING 12 FOURTH FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)	DRAWING TITLE 12-FOURTH FLOOR HAZARDS ABATEMENT PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER 568A4-21-702
 HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577 (907) 917-3861 • (907) 922-7517 (FAX) • CONTACT@HTRWLLC.COM		 A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE			VA U.S. Department of Veterans Affairs	APPROVED: Project Director	FLS FULLY SPRINKLERED	LOCATION HOT SPRINGS, SOUTH DAKOTA	PROJECT NUMBER 568A4-21-702
								ISSUE DATE 02/23/2022	CHECKED BY CTO
									DRAWING NUMBER 012-HA-04

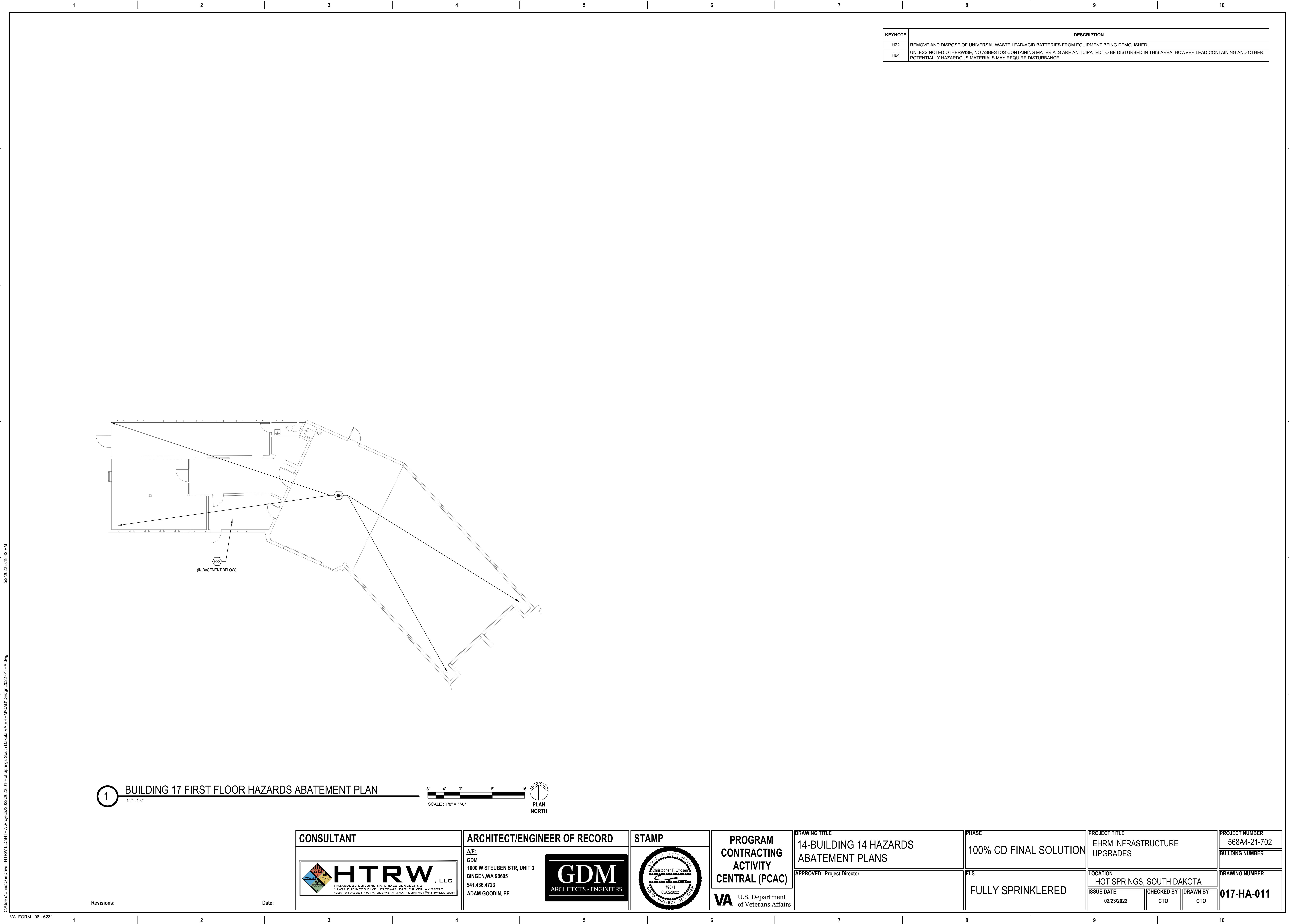




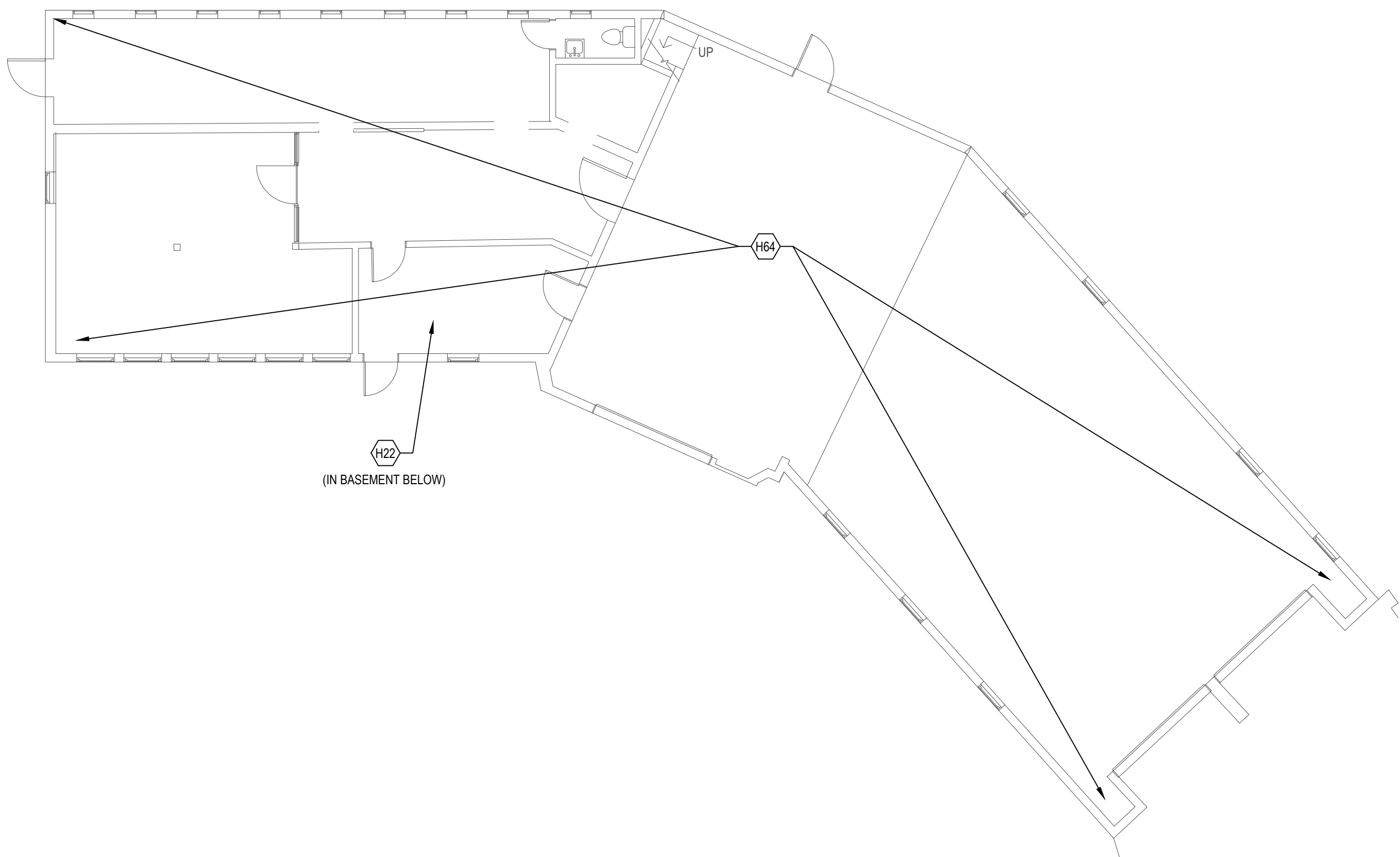




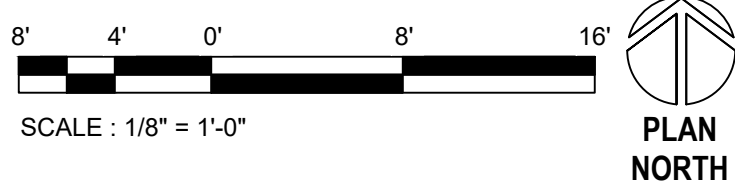






KEYNOTE	DESCRIPTION
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

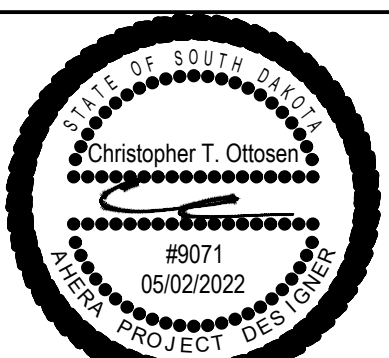



1 BUILDING 17 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



CONSULTANT
 <b>HTRW</b> LLC HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577 (907) 817-3463 • (907) 822-7517 FAX • CONTACT@HTRWLLC.COM

ARCHITECT/ENGINEER OF RECORD
A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE
 <b>GDM</b> ARCHITECTS • ENGINEERS

STAMP


PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)
 U.S. Department of Veterans Affairs

DRAWING TITLE
14-BUILDING 14 HAZARDS ABATEMENT PLANS
APPROVED: Project Director

PHASE
100% CD FINAL SOLUTION
FLS
FULLY SPRINKLERED

PROJECT TITLE
EHRM INFRASTRUCTURE UPGRADES
LOCATION
HOT SPRINGS, SOUTH DAKOTA
ISSUE DATE
02/23/2022
CHECKED BY
CTO
DRAWN BY
CTO

PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
DRAWING NUMBER
017-HA-011

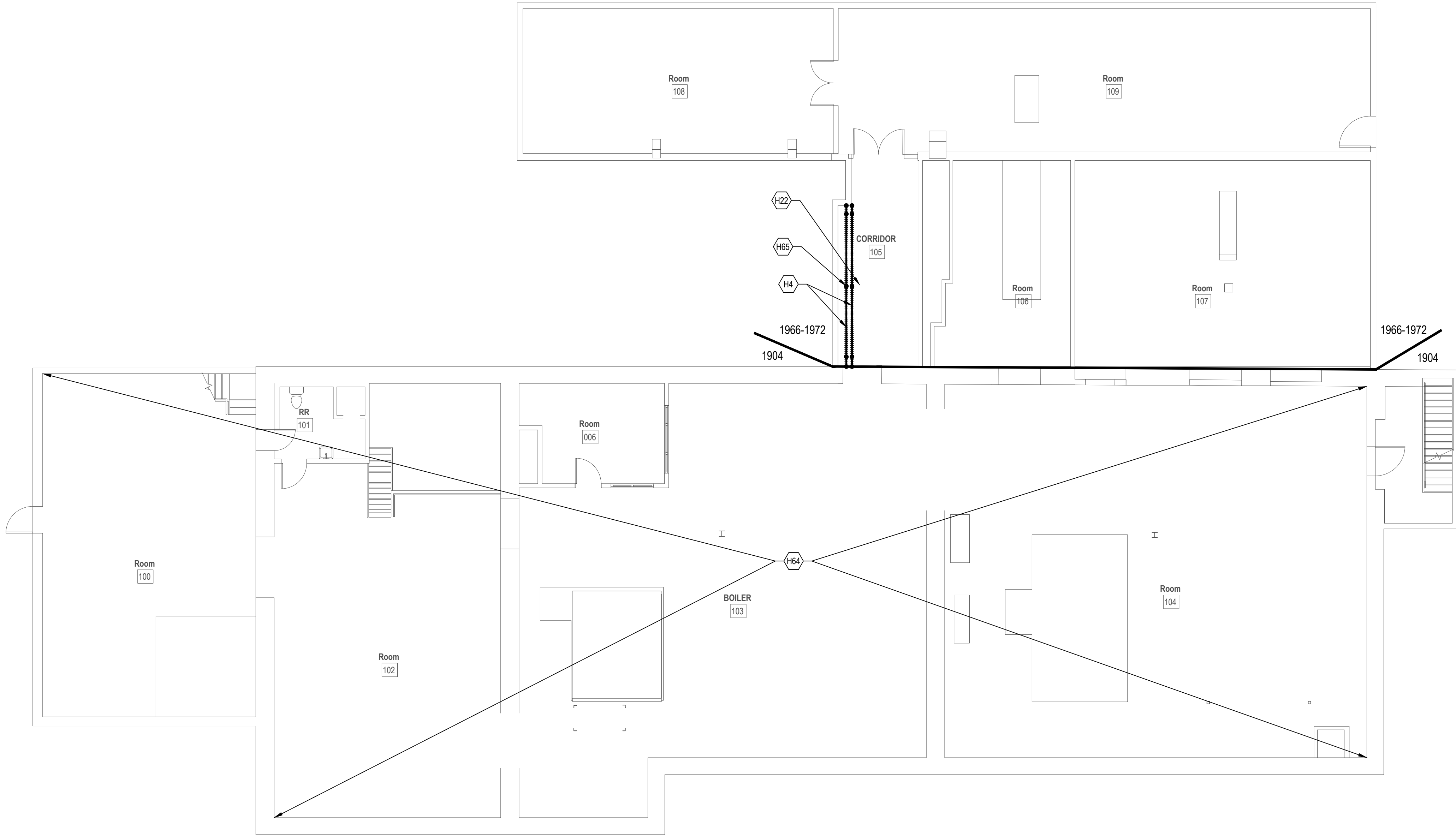


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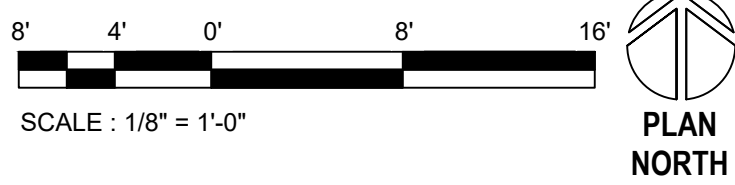
KEYNOTE	DESCRIPTION
H4	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS ON ALL PIPING THAT IS EXPOSED BY THE WORK.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.
H65	REMOVE AND DISPOSE OF POTENTIALLY HAZARDOUS HEAT TRANSFER FLUIDS FROM AFFECTED SYSTEMS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.



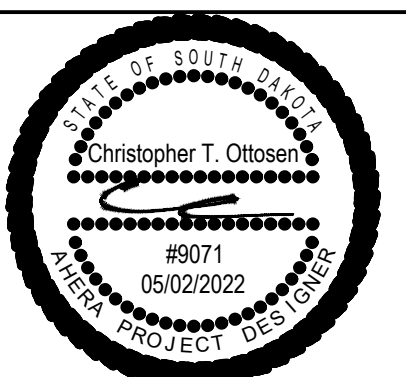
LEGEND, BUILDING 18

PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)

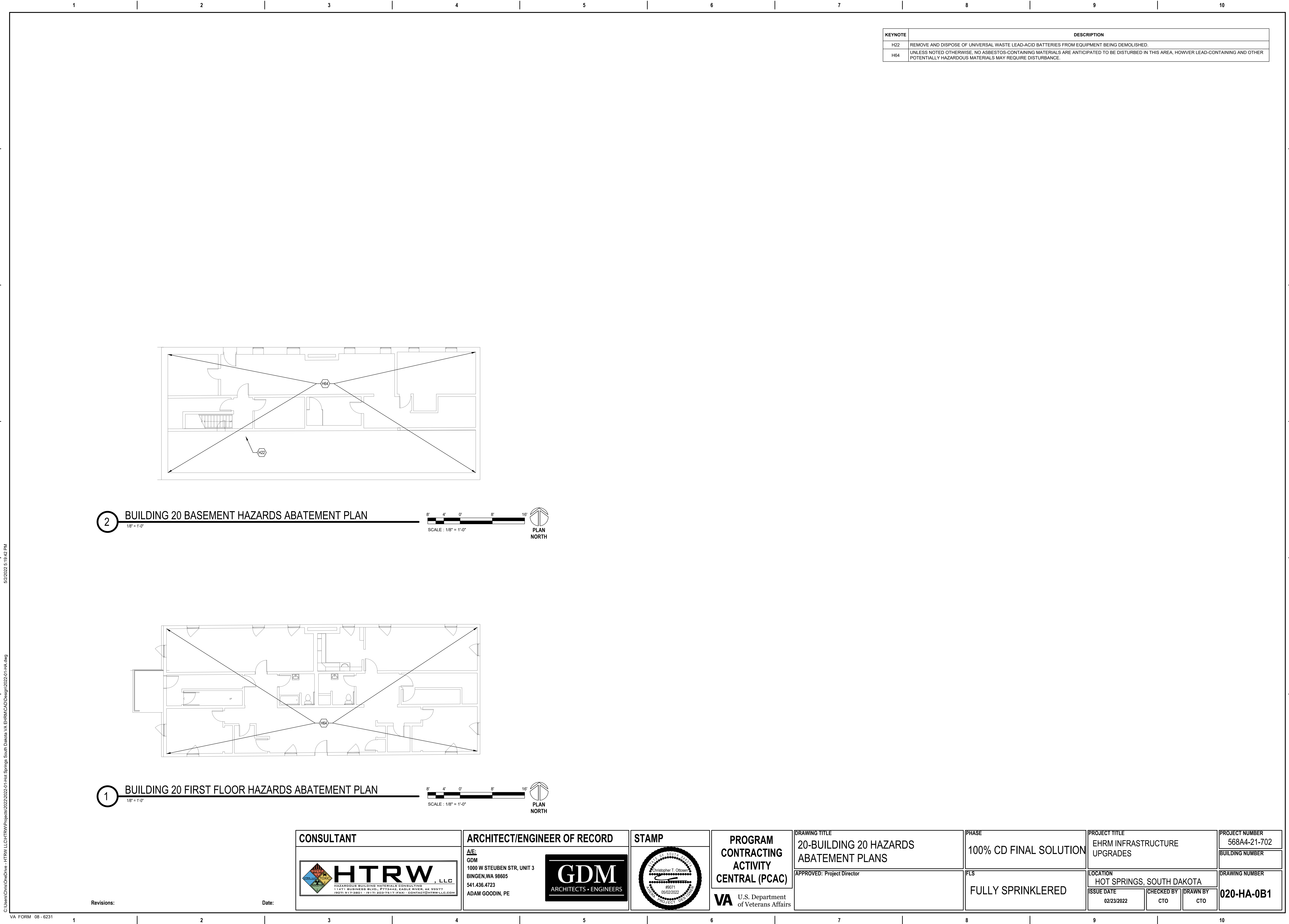


1 BUILDING 18 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



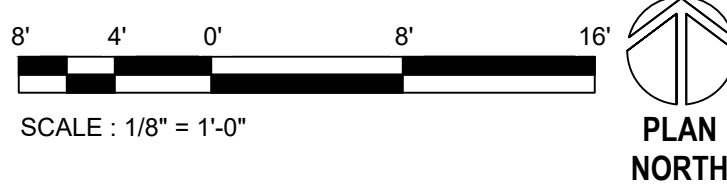
CONSULTANT  HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #773442, EAGLE RIVER, AK 99577 (907) 812-3861 • (907) 822-7517 FAX • CONTACT@HTRWLLC.COM	ARCHITECT/ENGINEER OF RECORD A/E: GDM 1000 W STEUBEN STR, UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GOODIN, PE 	STAMP 	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)  VA U.S. Department of Veterans Affairs	DRAWING TITLE 18-BUILDING 18 HAZARDS ABATEMENT PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER 568A4-21-702
				APPROVED: Project Director	FLS FULLY SPRINKLERED	LOCATION HOT SPRINGS, SOUTH DAKOTA	DRAWING NUMBER 018-HA-011
				ISSUE DATE 02/23/2022	CHECKED BY CTO	DRAWN BY CTO	



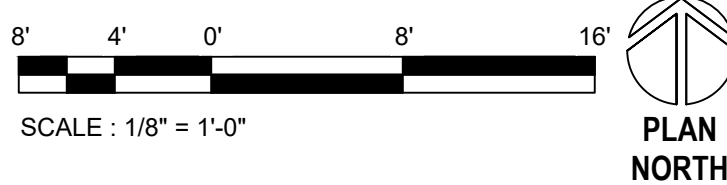


KEYNOTE	DESCRIPTION
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

2 BUILDING 20 BASEMENT HAZARDS ABATEMENT PLAN



1 BUILDING 20 FIRST FLOOR HAZARDS ABATEMENT PLAN



CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)	DRAWING TITLE 20-BUILDING 20 HAZARDS ABATEMENT PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES		PROJECT NUMBER 568A4-21-702	
						LOCATION HOT SPRINGS, SOUTH DAKOTA		DRAWING NUMBER 020-HA-0B1	
HTRW LLC HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #773442, EARLE RIVER, AK 99577 (907) 812-3861 • (907) 822-7517 FAX • CONTACT@HTRWLLC.COM	GDM ARCHITECTS • ENGINEERS	Christopher T. Ottosen #0071 05/02/2022 PROJECT DESIGNER	U.S. Department of Veterans Affairs	APPROVED: Project Director	FLS FULLY SPRINKLERED	ISSUE DATE	CHECKED BY	DRAWN BY	
						02/23/2022	CTO	CTO	



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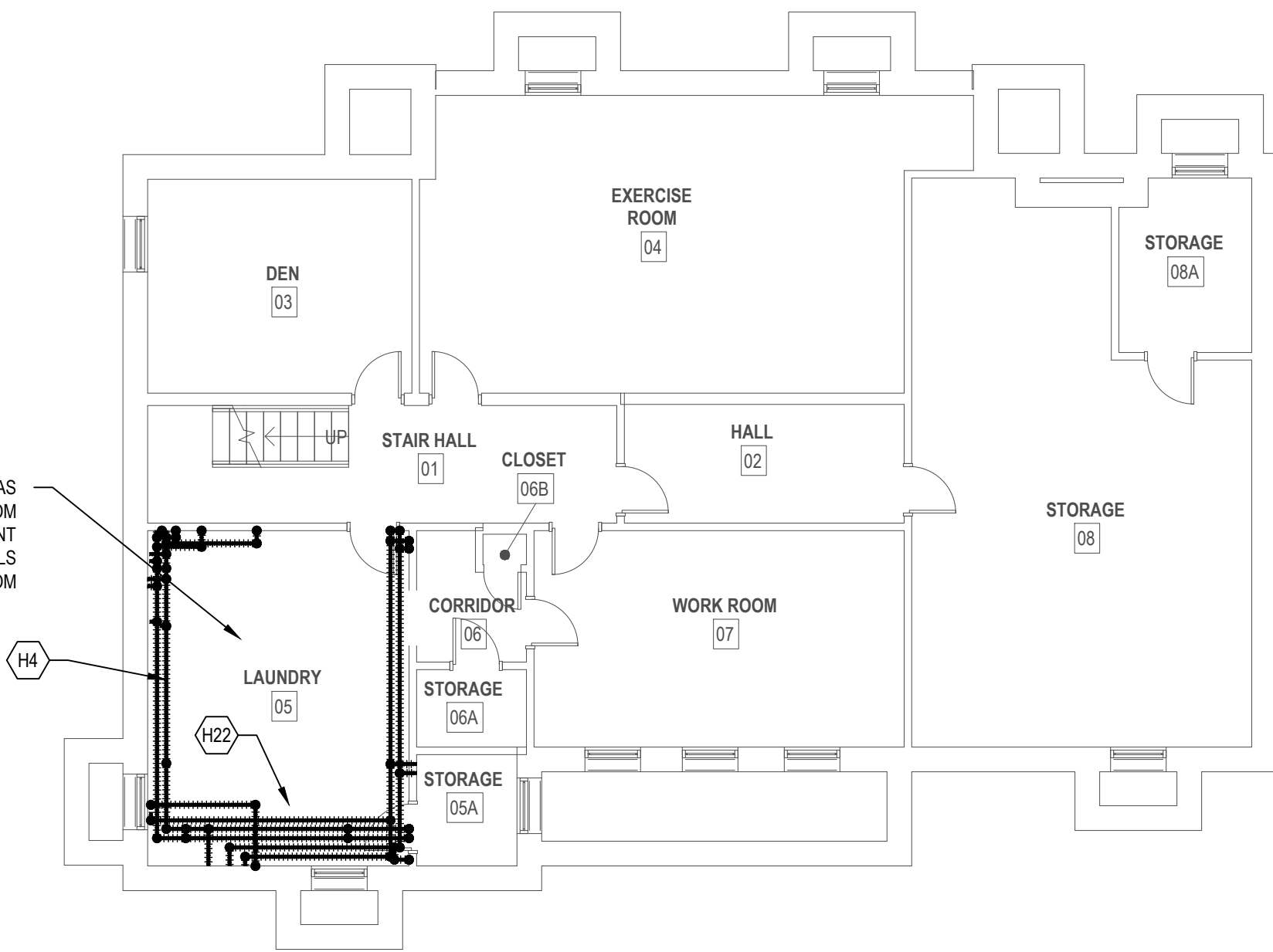
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NOTE: SOME PIPING SHOWN IN THIS ROOM WAS NOT INSULATED, BUT ALL PIPING IN THIS ROOM MUST BE CLEANED TO ENSURE NO REMNANT ASBESTOS-CONTAINING INSULATING MATERIALS REMAIN ON ANY PIPING IN THE ROOM

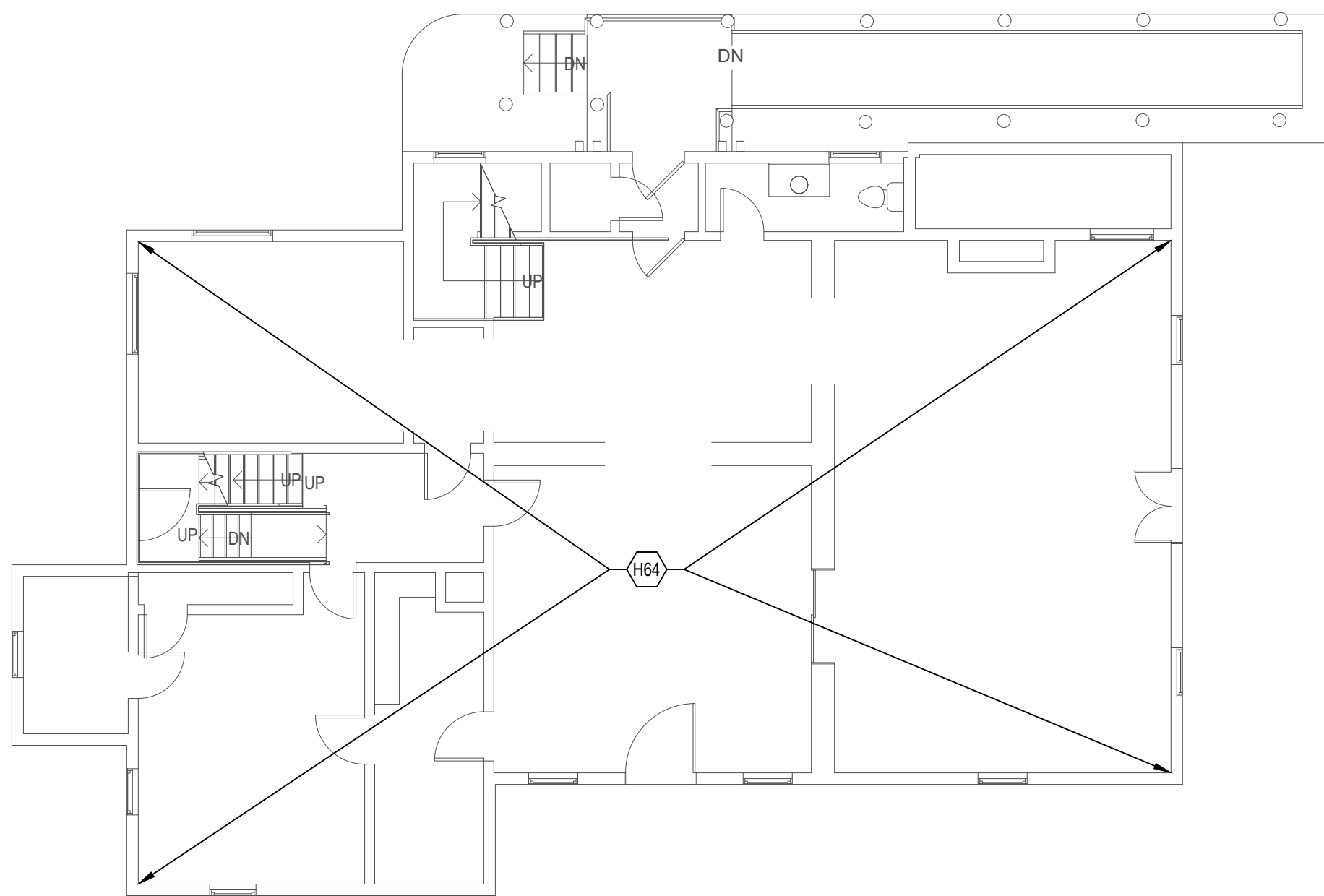


3 BUILDING 23 BASEMENT HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"

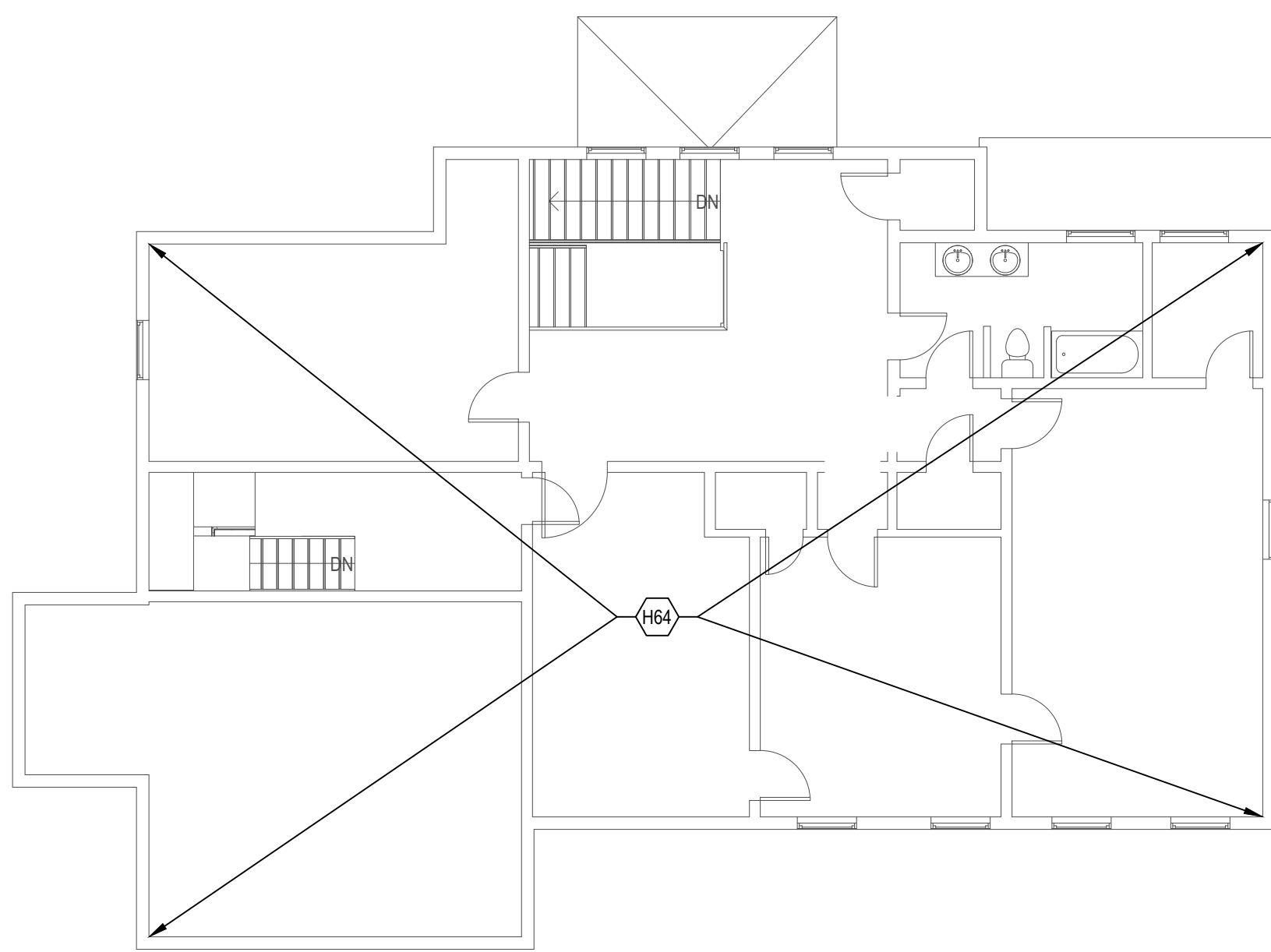
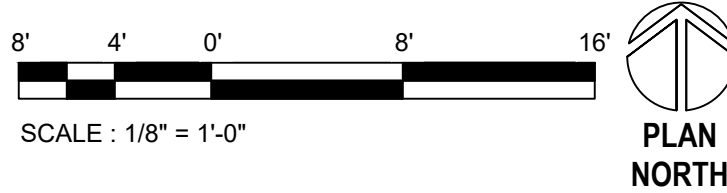


KEYNOTE	DESCRIPTION
H4	REMOVE AND DISPOSE OF ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS ON ALL PIPING THAT IS EXPOSED BY THE WORK
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE

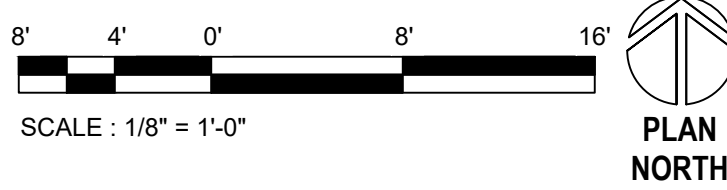
LEGEND, BUILDING 23	
	PIPING WITH ASBESTOS-CONTAINING "AIRCELL" PIPE INSULATION ON PIPE RUNS AND ASBESTOS-CONTAINING "HARD FITTING" INSULATION AT FITTINGS, HANGARS, AND AT PATCHED AREAS OF PIPE RUNS (ONLY SHOWN WHERE AFFECTED, THESE MATERIALS ARE PRESENT THROUGHOUT THE BUILDING)



2 BUILDING 23 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



1 BUILDING 23 SECOND FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



CONSULTANT

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ADAM GOODIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

STAMP

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE

23-BUILDING 23 HAZARDS  
ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

CHECKED BY

CTO

DRAWN BY

CTO

PROJECT NUMBER

568A4-21-702

BUILDING NUMBER

DRAWING NUMBER

023-HA-0B1

Revisions:

Date:

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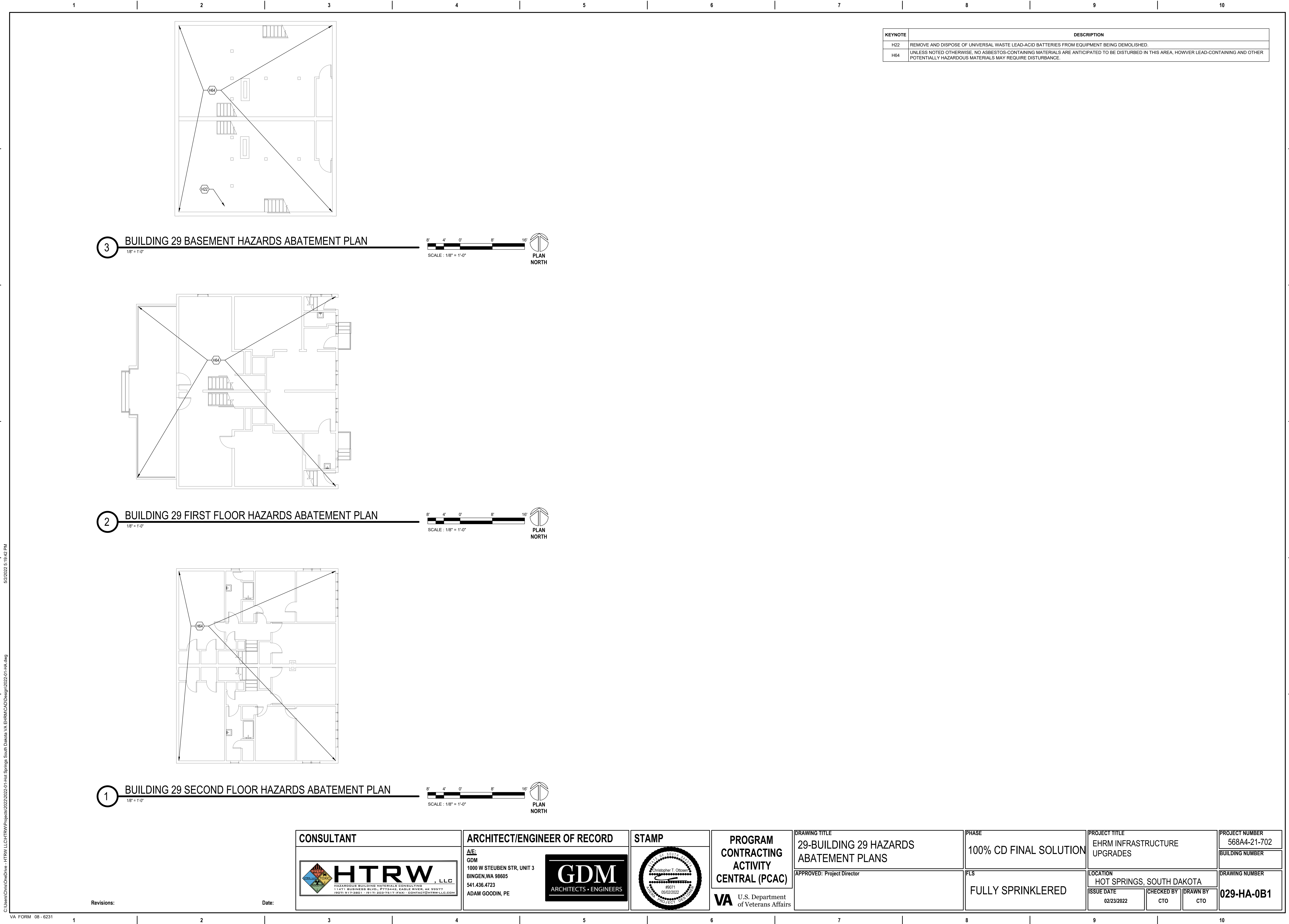
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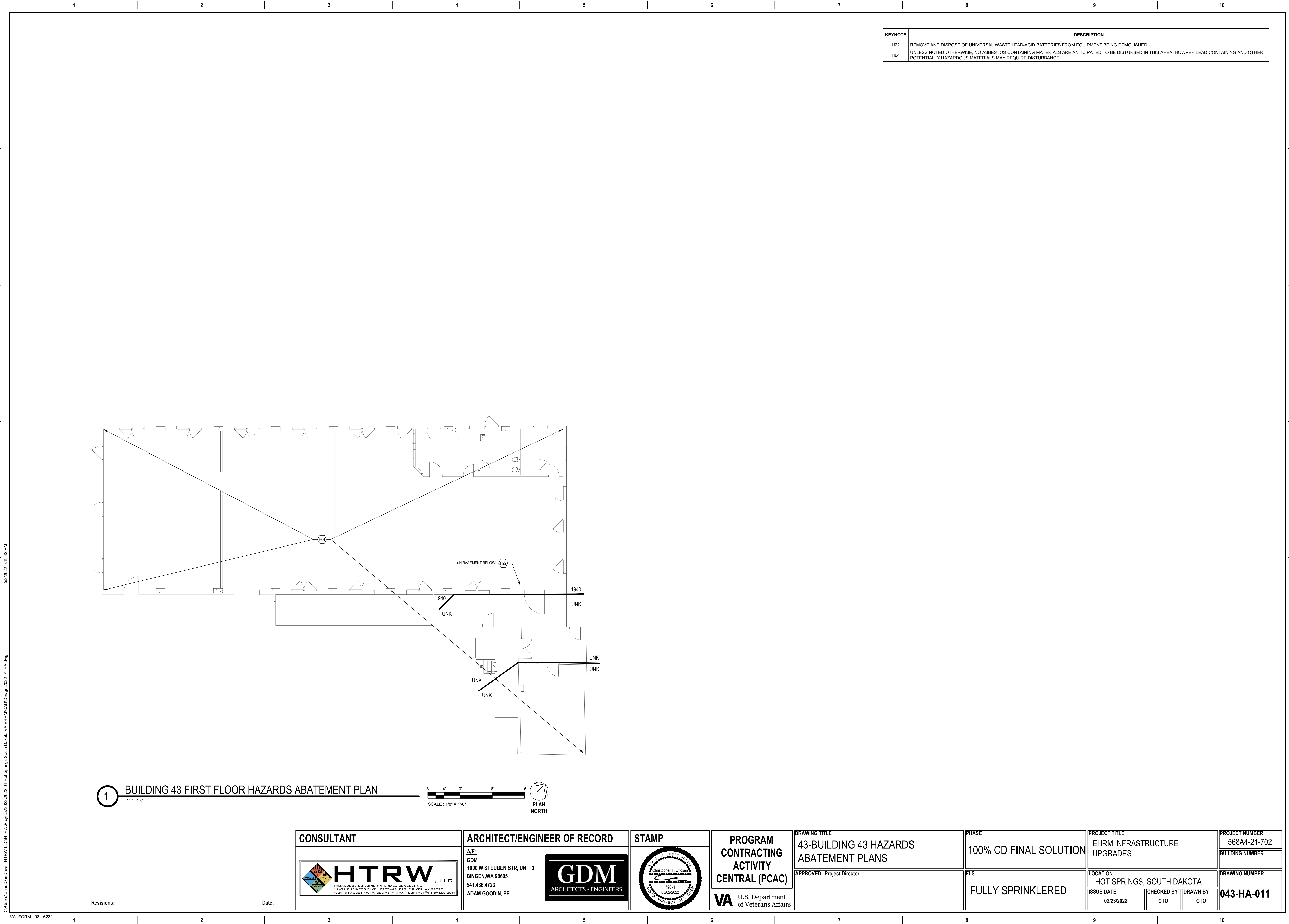
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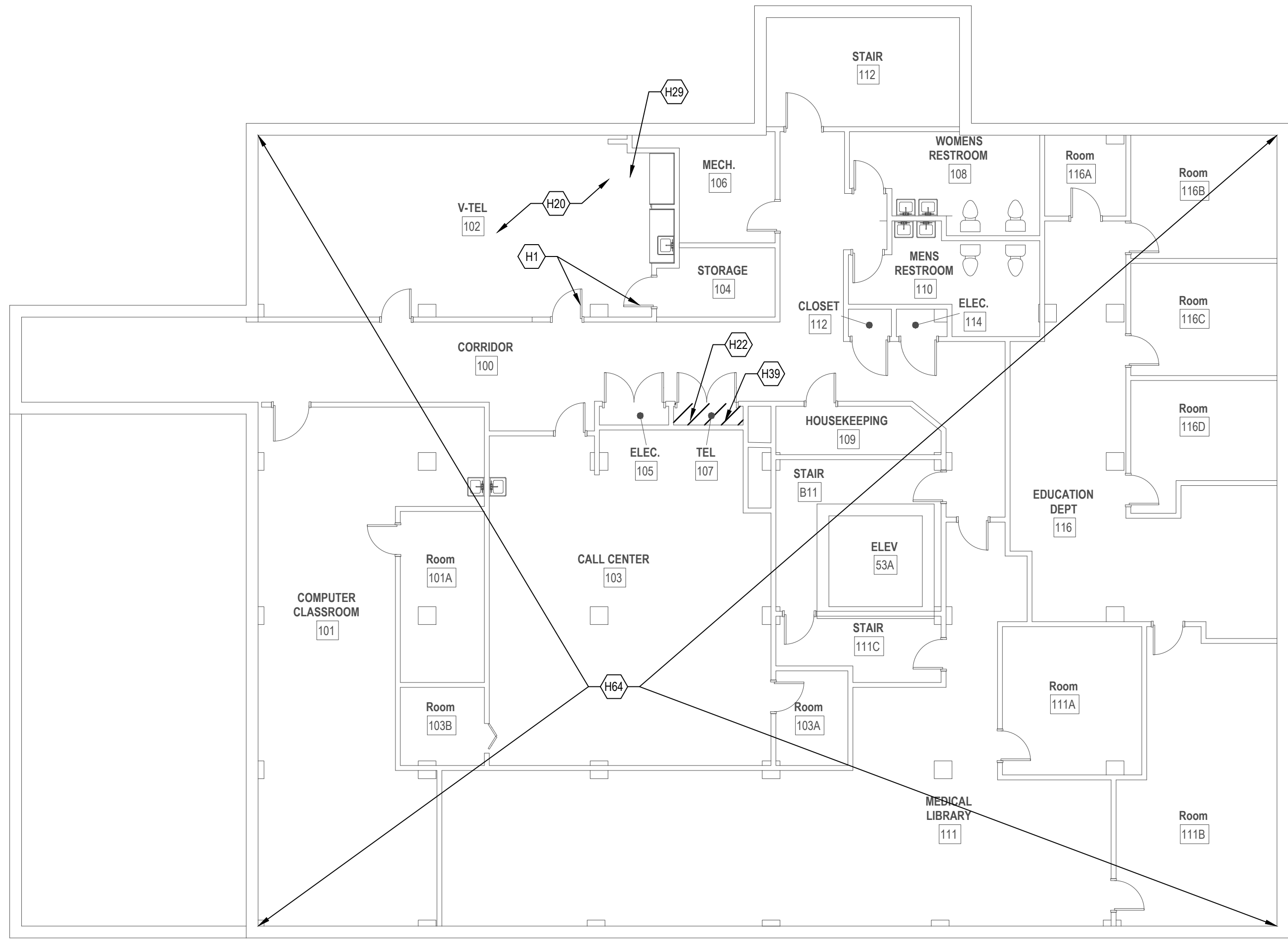
KEYNOTE	DESCRIPTION
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.



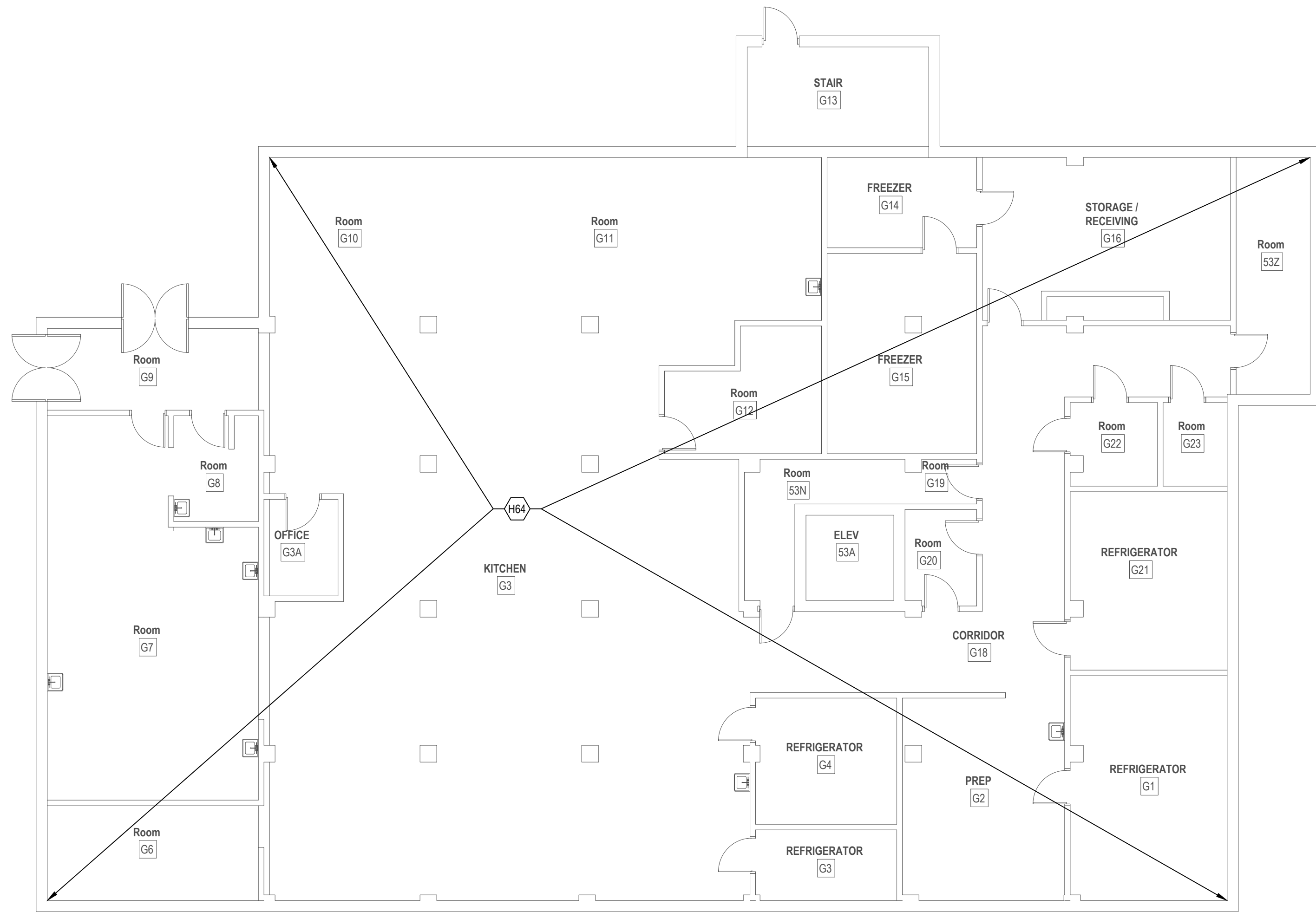
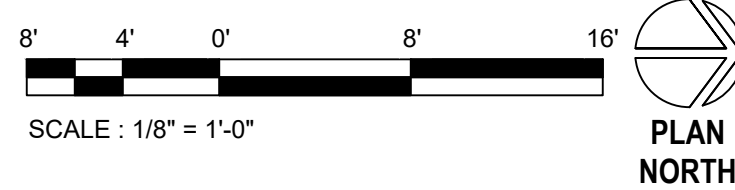




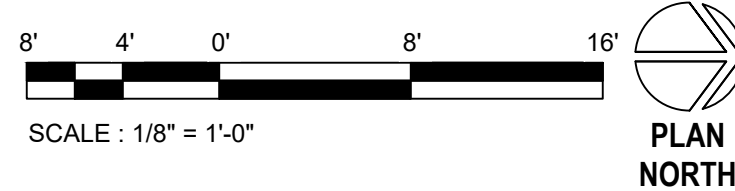
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3 BUILDING 53 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



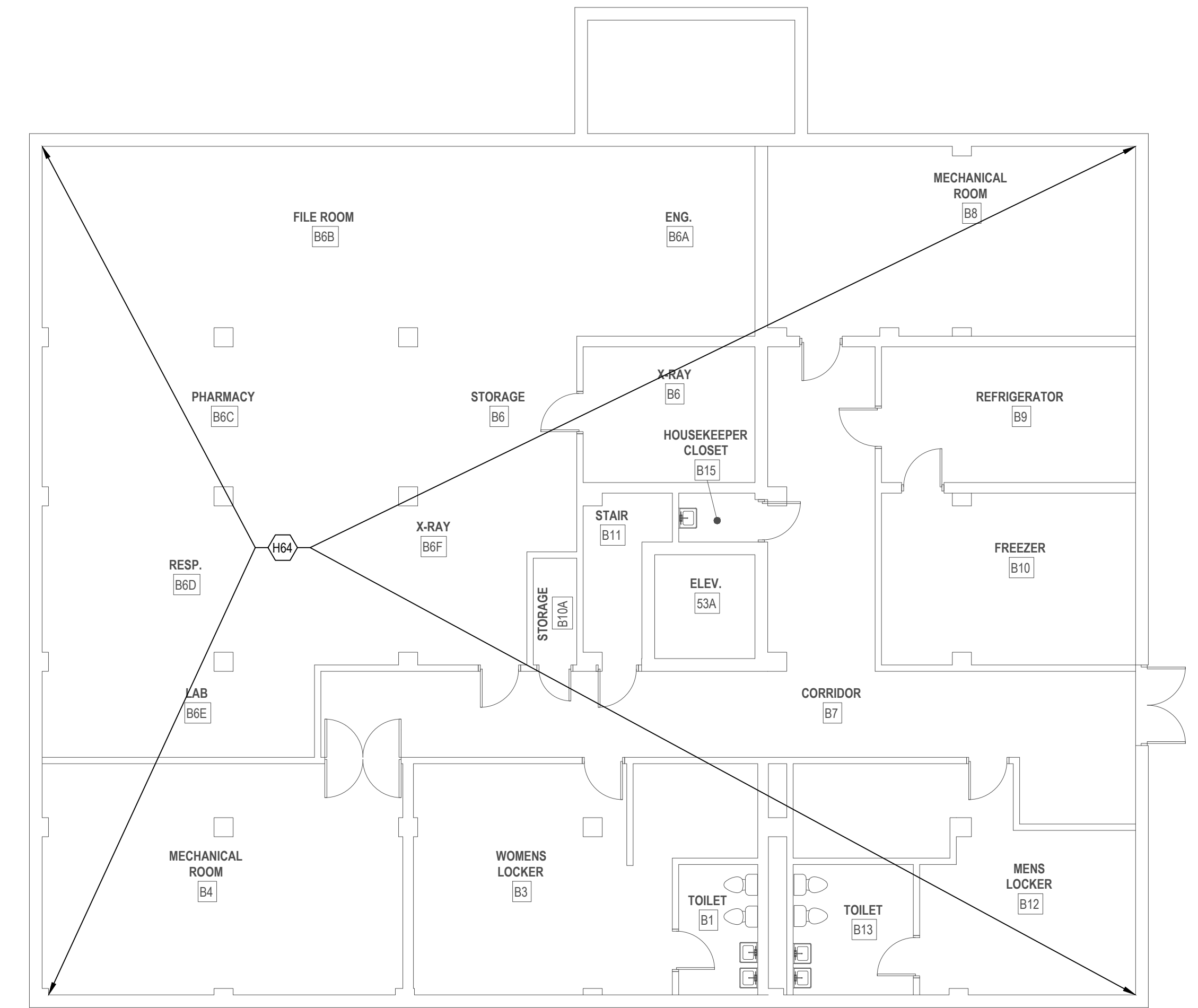
2 BUILDING 53 GROUND FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



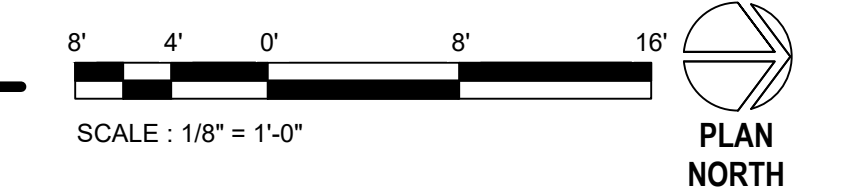
KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H29	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING BUILT-UP ROOFING MATERIALS WITH ASSUMED ASBESTOS-CONTAINING MASTICS AT NEW ROOF PENETRATION.
H39	REMOVE AND DISPOSE OF SHEET VINYL CONTAMINATED WITH ASBESTOS-CONTAINING BLACK FLOORING MASTIC AND COMPLETELY REMOVE MASTIC FROM SUBSTRATES TO REMAIN.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.




#### LEGEND, BUILDING 53

////// REMOVE AND DISPOSE OF SHEET VINYL CONTAMINATED WITH ASBESTOS-CONTAINING BLACK FLOORING MASTIC AND COMPLETELY REMOVE MASTIC FROM SUBSTRATES TO REMAIN.



1 BUILDING 53 BASEMENT HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)		DRAWING TITLE 53-BUILDING 53 HAZARDS ABATEMENT PLANS		PHASE 100% CD FINAL SOLUTION		PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES		PROJECT NUMBER 568A4-21-702	
 HTRW, LLC HAZARDOUS BUILDING MATERIALS CONSULTING 11471 BUSINESS BLVD., #73442, EAGLE RIVER, AK 99577 (907) 612-3861 - (907) 622-7517 FAX - CONTACT@HTRW.LLC.COM		 GDM ARCHITECTS • ENGINEERS		 Christopher T. Ottosen #0071 05/02/2022 PROJECT DESIGNER		VA U.S. Department of Veterans Affairs		APPROVED: Project Director		FULLY SPRINKLERED		LOCATION HOT SPRINGS, SOUTH DAKOTA		DRAWING NUMBER 053-HA-0G1	
												ISSUE DATE 02/23/2022		CHECKED BY CTO	
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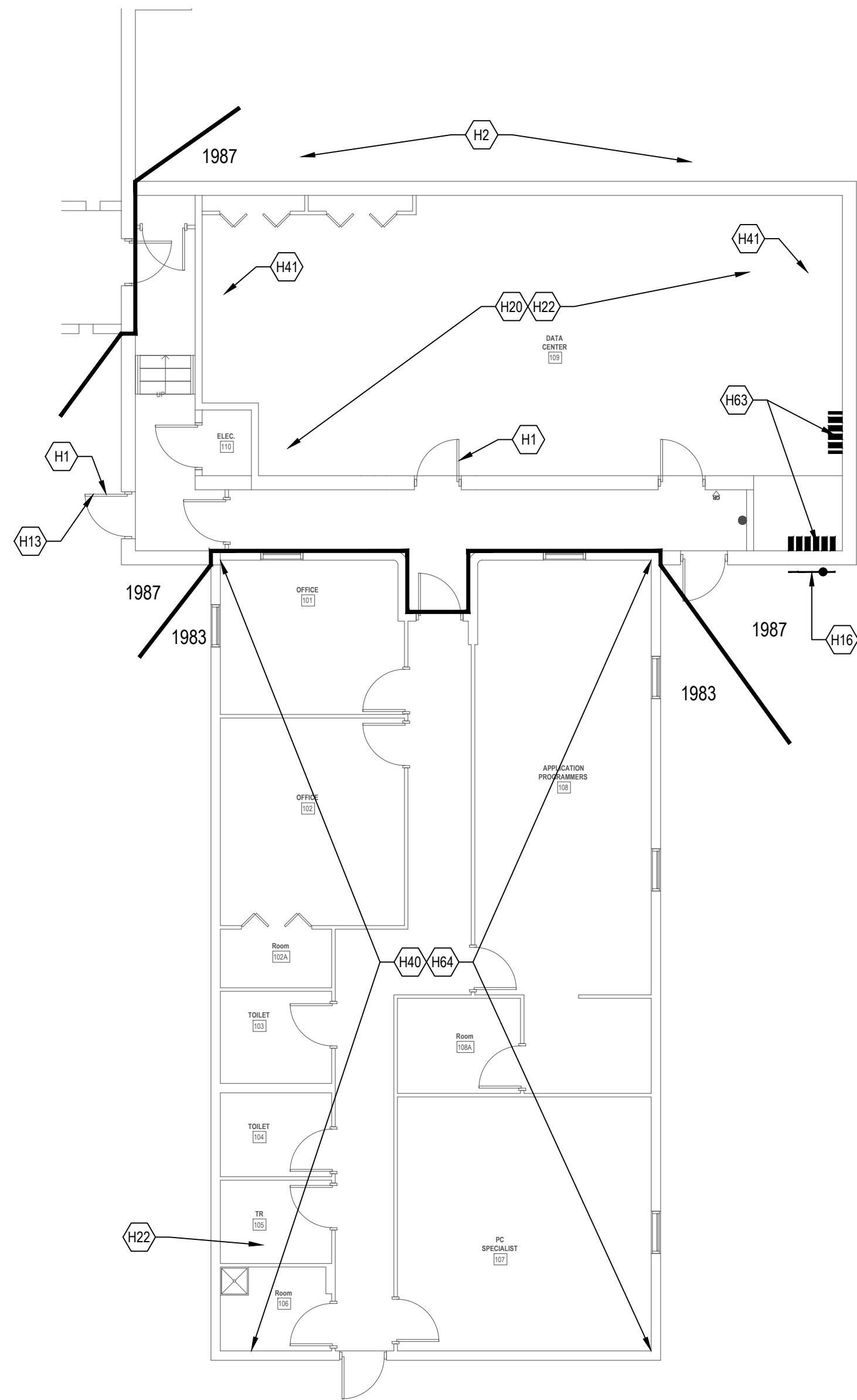


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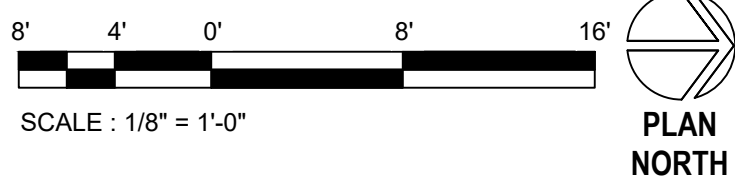
KEYNOTE	DESCRIPTION
H1	REMOVE AND DISPOSE OF DOOR WITH ASSUMED ASBESTOS-CONTAINING INSULATING CORES.
H2	RECOVER AND DISPOSE OF OR RECYCLE OZONE DEPLETING SUBSTANCES FROM EXTERIOR CONDENSING UNITS AS SHOWN.
H13	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING SEALANTS AT THE BASEMENT-LEVEL EXTERIOR DOOR FRAME AND TRIM.
H16	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING TARRY DAMPPROOFING AND/OR RIGID INSULATOIN BOARD MASTICS ON BELOW GRADE PORTIONS OF FOUNDATION WALLS ONLY AS REQUIRED TO ACCOMMODATE THE WORK.
H20	REMOVE AND DISPOSE OF MERCURY-CONTAINING UNIVERSAL WASTE LAMPS.
H22	REMOVE AND DISPOSE OF UNIVERSAL WASTE LEAD-ACID BATTERIES FROM EQUIPMENT BEING DEMOLISHED.
H40	AVOID DISTURBANCE OF ASBESTOS-CONTAINING "SILVERSEAL" ROOF COATING FOUND AS SCATTERED "SPLATTERS" ON COMPONENTS LOCATED IN ABOVE CEILING SPACES.
H41	RECOVER AND DISPOSE OF OR RECYCLE OZONE DEPLETING SUBSTANCES FROM AIR CONDITIONING SYSTEMS AFFECTED BY THE WORK.
H63	REMOVE AND DISPOSE OF ASSUMED ASBESTOS-CONTAINING MASTICS ON RIGID INSULATION BOARD GLUED TO THE INSIDE FACE OF EXTERIOR CONCRETE BLOCK WALLS IN BUILDING 65 ONLY AS REQUIRE TO ACCOMMODATE THE WORK.
H64	UNLESS NOTED OTHERWISE, NO ASBESTOS-CONTAINING MATERIALS ARE ANTICIPATED TO BE DISTURBED IN THIS AREA, HOWEVER LEAD-CONTAINING AND OTHER POTENTIALLY HAZARDOUS MATERIALS MAY REQUIRE DISTURBANCE.

LEGEND, BUILDING 65

- FOUNDATION WALL WITH ASSUMED ASBESTOS-CONTAINING TARRY DAMPPROOFING
- RIGID INSULATION WITH ASSUMED ASBESTOS-CONTAINING MASTICS ON INTERIOR FACE OF EXTERIOR CONCRETE BLOCK WALLS



1 BUILDING 65 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



CONSULTANT

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**GDM**  
ARCHITECTS • ENGINEERS

STAMP

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

U.S. Department  
of Veterans Affairs

DRAWING TITLE

65-BUILDING 65 HAZARDS  
ABATEMENT PLANS

APPROVED: Project Director

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

LOCATION

HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE

02/23/2022

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PROJECT NUMBER

568A4-21-702

BUILDING NUMBER

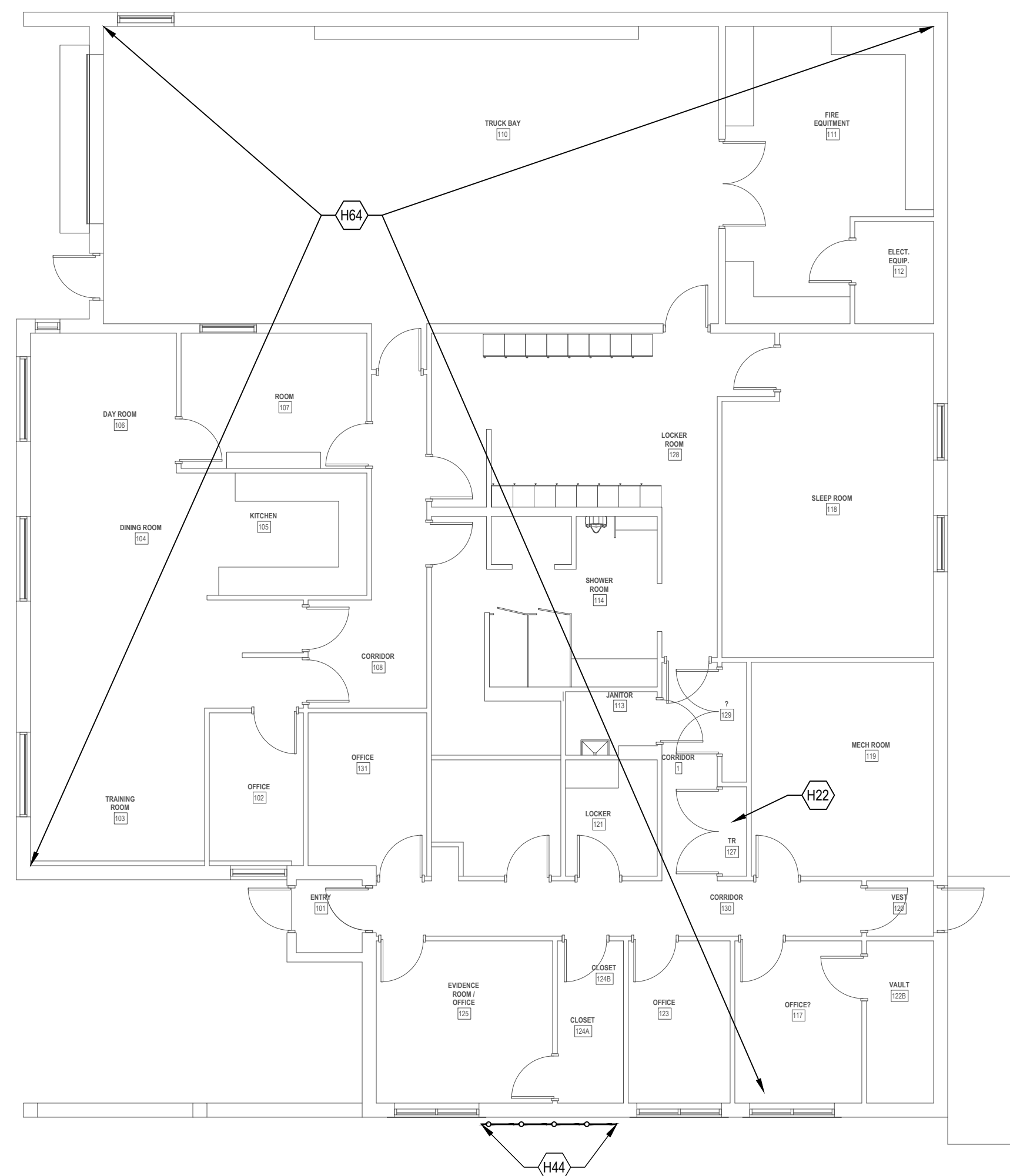
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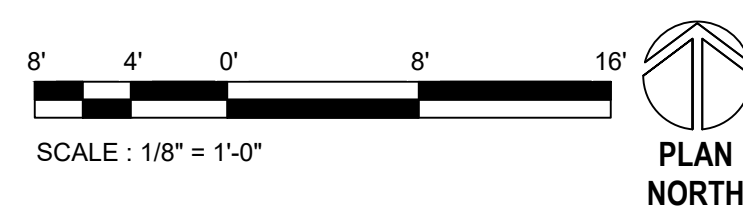


LEGEND, BUILDING 66

2 BUILDING 66 FIRST FLOOR HAZARDS ABATEMENT PLAN  
1/8" = 1'-0"



**1 BUILDING 66 FIRST FLOOR HAZARDS ABATEMENT PLAN**  
1/8" = 1'-0"



**Revisions:**

Date:



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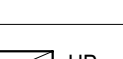
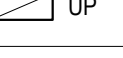
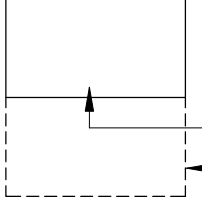
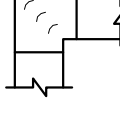
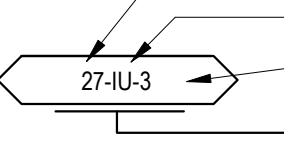
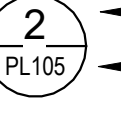
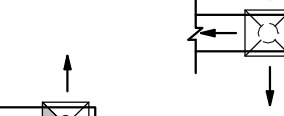
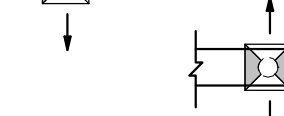
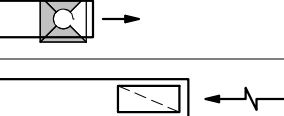
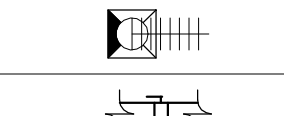
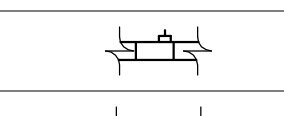
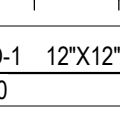
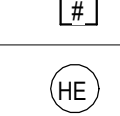
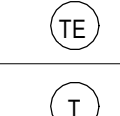
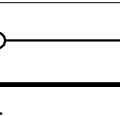
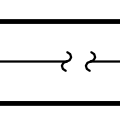


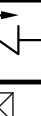
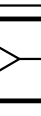
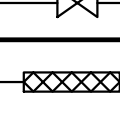
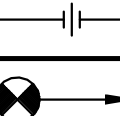
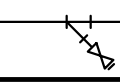








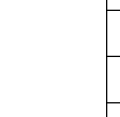
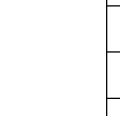


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SYMBOL LEGEND	
SYMBOL	DESCRIPTION
 UP	SUPPLY DUCT (UP AND DOWN)
 DN	
 UP	
 UP	EXHAUST DUCT (UP AND DOWN)
 UP	RETURN DUCT (UP AND DOWN)
	INDOOR UNIT MAINTENANCE AND SERVICE CLEARANCE
	RECTANGULAR ELBOW. PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH SINGLE BLADE TURNING VANES EVEN IF SYMBOL IS MISSING.
	BUILDING NUMBER WHERE EQUIPMENT IS LOCATED. EQUIPMENT ABBREVIATION (INDOOR UNIT) INDOOR UNIT NUMBER 3 TYPICAL UNIT NO.
	DETAIL NUMBER DRAWING NUMBER WHERE DRAWN
	ROUND AND SQUARE 4-WAY CEILING DIFFUSERS
	SQUARE 3-WAY CEILING DIFFUSERS
	SQUARE 2-WAY CEILING DIFFUSERS
	SQUARE 1-WAY CEILING DIFFUSERS
	EXHAUST OR RETURN CEILING REGISTER OR GRILLE
	FLEX DUCT CONNECTION
	VOLUME DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	LINED DUCTWORK
	DIFFUSER CALLOUT (SIZE, TYPE, CFM)
	DIFFUSER/GRILLE NOTE CALLOUT
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	THERMOSTAT
	PIPE UP
	PIPE DOWN
	PIPE BREAK
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	DIRECTION OF FLOW
	BALL VALVE
	CHECK VALVE
	PET'S PLUG
	REDUCER
	GATE VALVE
	FLEXIBLE PIPE CONNECTION
	UNION
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	STRAINER WITH BLOWDOWN VALVE & 3/4" HOSE CONNECTION

ABBREVIATIONS LIST

*F	DEGREES FAHRENHEIT
(E)	EXISTING
A	AMPERES
A/E	ARCHITECT/ENGINEER
ABV	ABOVE
AMPS	AMPERES
AF	ABOVE FINISHED FLOOR
ASJ	ALL SURFACE JACKET
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CFSD	COMBINATION FIRE/SMOKE DAMPER
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
F	FAHRENHEIT
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FSD	FIRE SMOKE DAMPER
FT	FEET
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GYP	GYPSON
H	HEIGHT
HP	HORSEPOWER
HR	HOUR
HW	HOT WATER
IN	INCH
INDW	INDIRECT WASTE
KW	KILOWATT
KWH	KILOWATT PER HOUR
LB	POUND
LBS	POUNDS
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MCR	MAIN COMPUTER ROOM
MFG	MANUFACTURE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRT	MEAN RADIANT TEMPERATURE
NRC	NOISE REDUCTION COEFFICIENT
OA	OUTSIDE AIR
ORL	OVERFLOW RAIN LEADER
PD	PRESSURE DROP
PH	PHASE
PVC	POLYVINYL CHLORIDE
RL	RAIN LEADER
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SCOP	SEASONAL COEFFICIENT OF PERFORMANCE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SQ FT	SQUARE FEET
TEMP	TEMPERATURE
TYP	TYPICAL
V	VOLT
VA	UNITED STATES DEPARTMENT OF VETERAN'S AFFAIRS
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
W	WATT

GENERAL NOTES

- PROVIDE SYSTEM STARTUP, TESTING, & ADJUSTMENTS OF INSTALLED SYSTEMS TO MEET PERFORMANCE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL SUPPORT SYSTEM COMMISSIONING AND SHALL COORDINATE WITH PROJECT COMMISSIONING AGENT.
- CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION REQUIRED TO SUPPORT SYSTEM COMMISSIONING.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CONSTRUCTION FEES. FURNISH COPIES OF ALL CONSTRUCTION PERMITS, FINAL APPROVED PERMITS, AND SIMILAR DOCUMENTS TO OWNER DOCUMENTING COMPLIANCE WITH CODE REQUIREMENTS.
- LOCATE ALL VALVES, TRAPS, TEST PORTS, DAMPERS, CONTROLS, CLEANOUTS, ETC. TO BE ACCESSIBLE FOR MAINTENANCE, ADJUSTMENT, & TESTING. PROVIDE ACCESS PANELS FOR ALL CONCEALED DEVICES. ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH ARCHITECT.
- ALL PIPING & DUCTWORK IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING SYSTEM. REFER TO ARCHITECTURAL DOCUMENTS FOR FURRING & CHASE LOCATIONS & SIZES.
- THE FIRST FIGURE OF DUCT SIZE CALLOUTS INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS. PROVIDE ANY APPLICABLE DUCT LINING AND INSULATION PER THESE PLANS AND SPECIFICATIONS. NOMINAL OUTER DUCT DIMENSIONS ARE NET INSIDE DIMENSIONS PLUS 2X INSULATION THICKNESS.
- DUCTWORK SHALL BE 2.0" PRESSURE CLASS UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- CONSTRUCT DUCTWORK ACCORDING TO INTERNATIONAL ENERGY CONSERVATION CODE SECTION C403.11.2
- PROVIDE TURNING VANES IN ALL MITERED RECTANGULAR DUCT ELBOWS & TEES.
- PROVIDE MANUAL BALANCING DAMPERS ON ALL NEW AND MODIFIED DUCT BRANCHES TO AIR INLETS & OUTLETS. LOCATE DAMPERS AS CLOSE TO MAIN TRUNK DUCT CONNECTION AS POSSIBLE. WHERE BRANCH DUCTWORK IS INACCESSIBLE (SUCH AS ABOVE HARD LID CEILING SYSTEM), PROVIDE BALANCING DAMPER AT REGISTER, GRILLE, OR DIFFUSER.
- PROVIDE MOTORIZED DAMPERS ON OUTDOOR AIR SUPPLY, EXHAUST OPENINGS, AND RELIEF OUTLETS. DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE FOOT AT 1" W.C.
- RELIEF GRAVITY DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 20 CFM PER SQUARE FOOT AT 1" W.C. DAMPERS SMALLER THAN 24" IN EITHER DIRECTION SHALL HAVE A MAXIMUM LEAKAGE RATE OF 40 CFM PER SQUARE FOOT AT 1" W.C.
- PROVIDE COMPLETE CONDENSATE DRAINAGE SYSTEM FOR ALL SPLIT SYSTEMS, VRF SYSTEMS, AND SIMILAR SYSTEMS WITH REFRIGERANT OR CHILLED WATER COOLING. FIELD ROUTE DRAINAGE PIPING FROM EQUIPMENT TO NEAREST DRAIN LOCATION (SUCH AS SERVICE SINK, FUNNEL DRAIN, ETC.). SLOPE NON-PRESSURIZED DRAIN PIPING TO DRAIN LOCATION. PIPING & FITTINGS SHALL BE COPPER. MINIMUM PIPE SIZE SHALL BE 3/4". INCREASE PIPE SIZE WHERE APPLICABLE PER INTERNATIONAL MECHANICAL CODE 307.2.2.
- SIZE REFRIGERANT PIPING ON SPLIT SYSTEM UNITS PER MANUFACTURER'S RECOMMENDATION.
- PROVIDE SWIFT HEAT TRACE FOR ALL CW PIPING & P-TRAPS IN UNHEATED SPACES.
- TOTAL STATIC PRESSURE NOTED IN SCHEDULES SHALL BE ASSUMED TO INCLUDE DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- ALL SUPPLY AIR FILTERS SHALL BE MERV-11 RATED. ALL RETURN/EXHAUST/OUTSIDE AIR FILTERS SHALL BE MERV-11 RATED.
- AIR INLET & OUTLET SIZES SHOWN ON PLANS ARE NECK SIZES. PROVIDE ADDITIONAL PANS, HARDWARE, ETC. REQUIRED TO INSTALL AIR INLETS & OUTLETS IN CEILING SYSTEM.
- WALL REGISTER-TYPE AIR INLETS & OUTLETS SHALL BE INSTALLED AT 7" AFF MINIMUM ELEVATION.
- AIR INLETS & OUTLETS IN UNFINISHED SPACES OR OPEN CEILING AREAS SHALL BE INSTALLED AT 96" AFF UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
- ALL PRESSURES LISTED ARE GAGE PRESSURES UNLESS OTHERWISE NOTED.
- COORDINATE ALL MECHANICAL, PLUMBING & FIRE PROTECTION WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS.
- ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
- A SHORT DASH IN A SCHEDULE TABLE CELL INDICATES THAT THE COLUMN HEADING IS NOT USED OR NOT APPLICABLE TO THAT SCHEDULED ITEM.
- MAINTAIN AND RESTORE (IF INTERRUPTED) ALL CONDUITS & CONDUCTORS, PIPING, & DUCTWORK PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
- REMOVE ALL ABANDONED DUCTWORK, PIPING, CONTROLS, WIRING, ETC., WHERE ACCESSIBLE IN RENOVATED AREAS.
- WHERE CONTROLS ARE DEMOLISHED, REMOVE WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX. REMOVE ACCESSIBLE CONDUIT, JUNCTION BOXES, ETC.
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT AND COMPONENTS REMOVED DURING DEMOLITION.
- CONTRACTOR SHALL INSTALL ISOLATION VALVES IN SUPPORT OF HUMIDITY SUPPLY LINES AND UPDATE AS-BUILT DRAWINGS ON FINAL PLACEMENT.
- CONTRACTOR SHALL INSULATE DOMESTIC COLD-WATER LINES AND LABEL AS "DOMESTIC CW" WITH DIRECTIONAL INDICATORS.
- DDC CONTROLLERS INSTALLED IN ABANDONED TR CLOSETS TO BE LABELED WITH IP ADDRESS. DDC CONTROLLERS TO BE CONNECTED TO EMERGENCY POWER (RED) OUTLETS.
- CONTRACTOR TO OBTAIN, SUPPORT AND APPEND LOCAL ASBESTOS DATABASE. CONTRACTOR SHALL MINIMIZE AND MITIGATE WORK IN AREA WITH POTENTIAL ASBESTOS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CUTTING & RESTORATION WORK NECESSARY IN EXISTING AREAS OF THE BUILDING TO PROVIDE WORK SHOWN ON THESE DOCUMENTS. REFER TO ARCHITECTURAL DOCUMENTS FOR RESTORATION REQUIREMENTS. CUTTING WORK SHALL INCLUDE SAWCUTTING, CORE-DRILLING, AND ALL SIMILAR WORK AS REQUIRED BY THE TYPE OF CONSTRUCTION BEING PENETRATED OR MODIFIED.
- WHERE DIRECTION REGARDING RESTORATION AT SPECIFIC LOCATIONS OF CUTTING, CORE-DRILLING, & SIMILAR ACTIVITIES DOES NOT EXIST IN THE ARCHITECTURAL DOCUMENTS, RESTORATION SHALL INCLUDE PATCHING TO MATCH EXISTING SURROUNDING CONSTRUCTION AND FINISHES. PATCHED AREAS SHALL BE RE-PAINTED FULL HEIGHT OF WALL FROM WALL CORNER TO WALL CORNER.

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Revisions:	Date:

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STAMP



PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)



DRAWING TITLE

MECHANICAL GENERAL INFORMATION

APPROVED:

PHASE

100% CD FINAL SOLUTION

FLS

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
-

DRAWING NUMBER  
MK-001

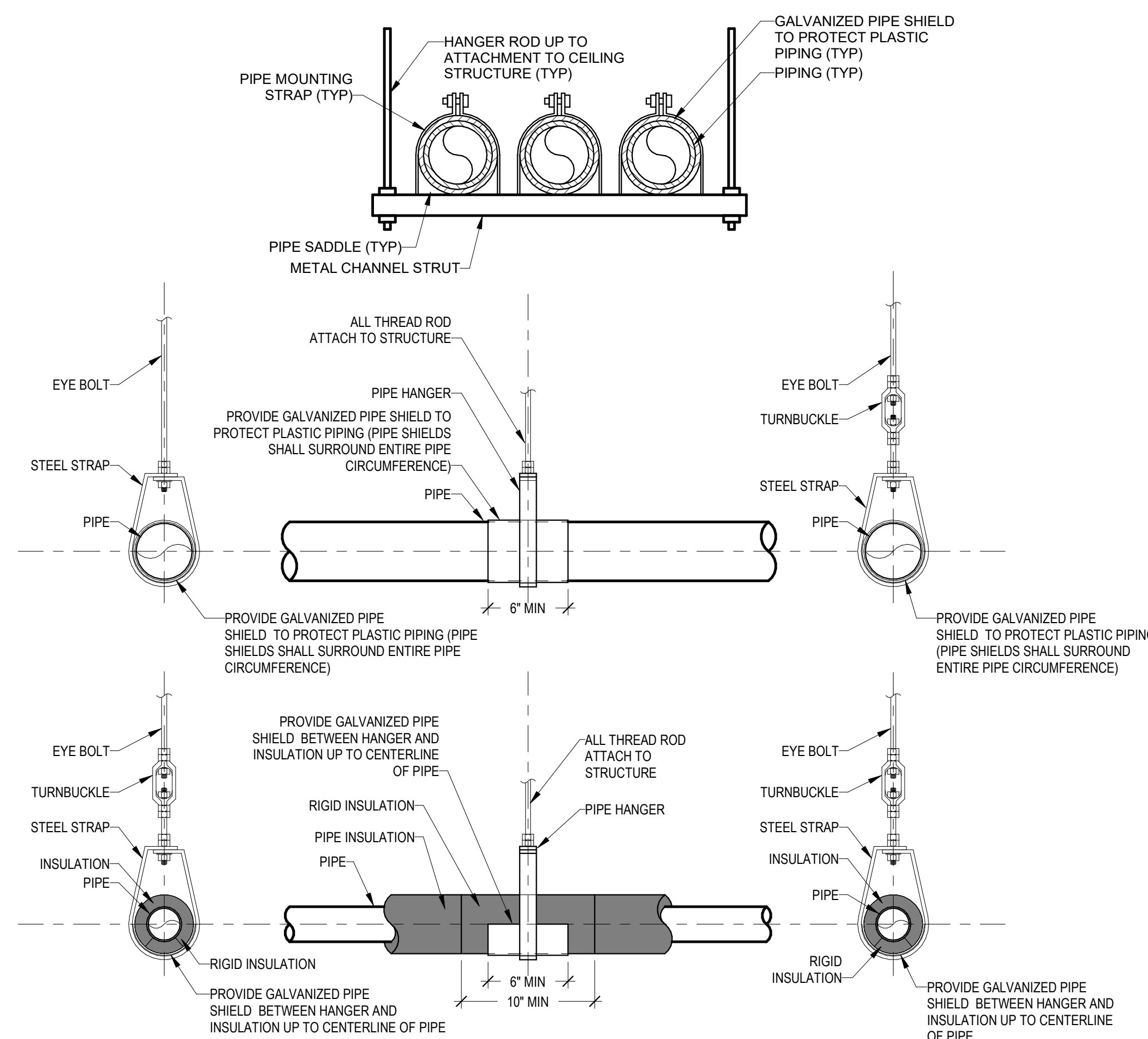




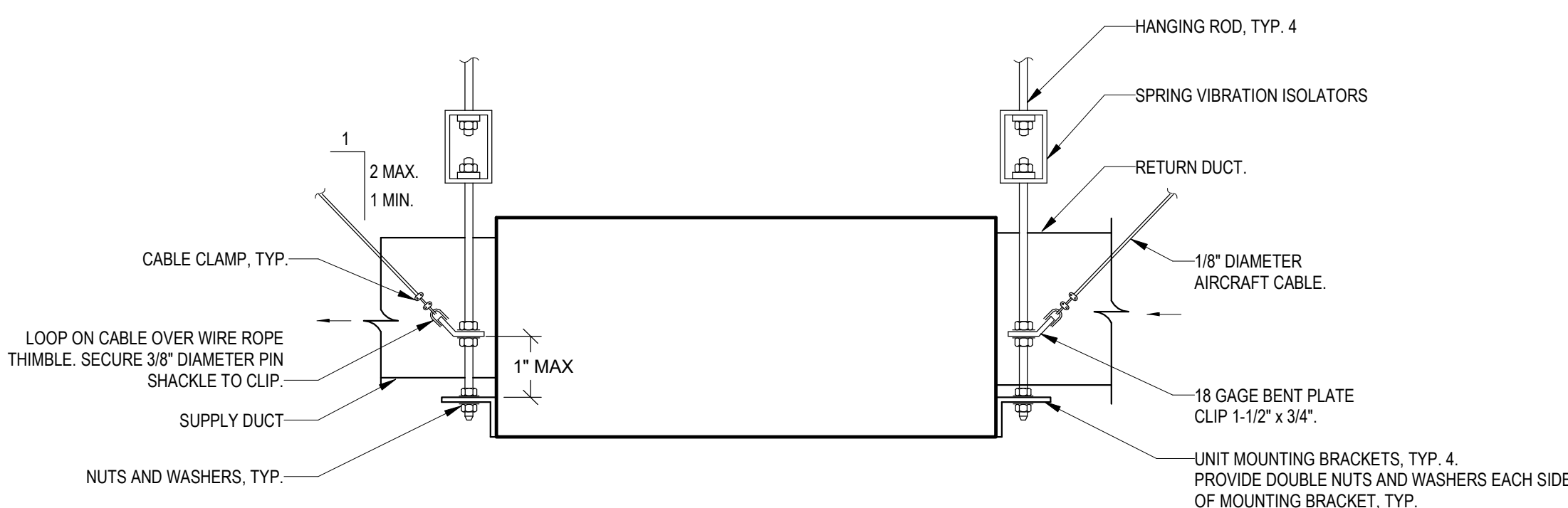
1 SITE PLAN  
1" = 100'-0"



<div>Revisions:</div>		<div>CONSULTANT</div> <div>A/E GDM 1584 McNeil St, Suite 200 DuPont, WA 98327 360.318.7095 JESSE BARKSDALE</div> <div><div>GDM</div><div>ARCHITECTS • ENGINEERS</div></div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div>ARCHITECT GDM 1000 W STEUBEN ST. UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GODDIN, PE</div> <div><div>GDM</div><div>ARCHITECTS • ENGINEERS</div></div>		<div>STAMP</div> <div><div>KATHLEEN TAKALOG KATHLEEN TAKALOG REGISTERED ARCHITECT WASHINGTON 02/23/2022</div></div>	<div>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</div> <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>	<div>DRAWING TITLE</div> <div>MECHANICAL SITE PLAN</div> <div>APPROVED:</div>	<div>PHASE</div> <div>100% CD FINAL SOLUTION</div> <div>FLS</div>	<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>LOCATION HOT SPRINGS, SOUTH DAKOTA</div> <div>ISSUE DATE 02/23/2022</div> <div>CHECKED BY KHT</div> <div>DRAWN BY KBT</div>	<div>PROJECT NUMBER</div> <div>568A4-21-702</div> <div>BUILDING NUMBER</div> <div>-</div> <div>DRAWING NUMBER</div> <div>MK-002</div>
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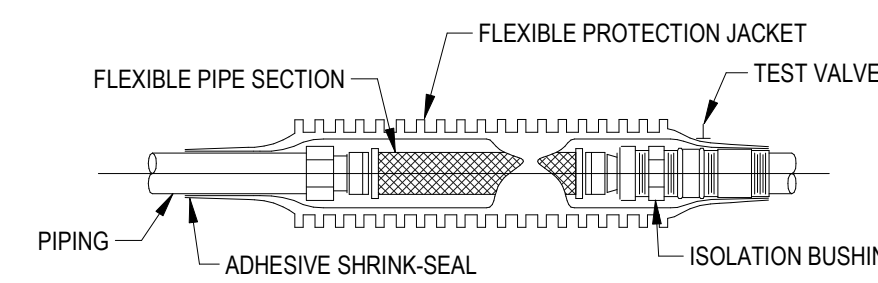


## 2 TYPICAL DUCT SUPPORT DETAIL



## 5 TYPICAL DUCTED INDOOR UNIT MOUNTING DETAIL

## 1 TYPICAL PIPE SUPPORT DETAIL



## 7 GENERATOR FLEX PIPING

PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES			PROJECT NUMBER 5684A-21-702	
			BUILDING NUMBER -	
LOCATION HOT SPRINGS, SOUTH DAKOTA			DRAWING NUMBER	
ISSUE DATE 02/23/2022	CHECKED BY KHT	DRAWN BY KBT	MK-003	



## AIR INLETS AND OUTLETS SCHEDULE

SYMBOL	SERVES	MANUFACTURER	MODEL	TYPE	NOMINAL TONS	SCOP	ELECTRICAL				WEIGHT (LBS)	NOTES	
							VOLT	PHASE	FLA	MCA			MCCP
1-CU-1	1-U-1	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
1-CU-2	1-U-2	LIEBERT	MCD36ALPHN	DUCTED/AIR-COOLED	3	-	208	1	20.8	25.1	40	220	1, 2
1-CU-3	1-U-3	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
1-CU-4	1-U-4	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
2-CU-1	2-U-1	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
2-CU-2	2-U-2	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
3-CU-1	3-U-1	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
4-CU-1	4-U-1	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
4-CU-2	4-U-2	LIEBERT	MCD36ALPHN	DUCTED/AIR-COOLED	3	-	208	1	20.8	25.1	40	220	1, 2
4-CU-3	4-U-3	LIEBERT	MCD36ALPHN	DUCTED/AIR-COOLED	3	-	208	1	20.8	25.1	40	220	1, 2
5-CU-1	5-U-1	LIEBERT	MCD36ALPHN	DUCTED/AIR-COOLED	3	-	208	1	20.8	25.1	40	220	1, 2
6-CU-1	6-U-1	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3
7-CU-1	7-U-1	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3
8-CU-1	8-U-1	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3
11-CU-3	11-U-1	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3
12-CU-2	12-U-2	LIEBERT	MCS928E1	AIR-COOLED	5	-	208	3	3	3.8	15	377	1, 2, 3
12-CU-3	12-U-3	LIEBERT	PFH037A_PLN	AIR-COOLED	3	2.58	208	1	20.5	24.8	40	241	1, 2, 3
12-CU-4	12-U-4	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3
12-CU-5	12-U-5	LIEBERT	PFDD05A	AIR-COOLED	4	-	208	3	23.4	28.4	45	351	1, 2, 3
12-CU-6	12-U-6	LIEBERT	MCS928E1	AIR-COOLED	5	-	208	3	3	3.8	15	377	1, 2, 3
12-CU-7	12-U-7	LIEBERT	MCS928E1	AIR-COOLED	5	-	208	3	3	3.8	15	377	1, 2, 3
12-CU-8	12-U-8	LIEBERT	PFDD05A	AIR-COOLED	4	-	208	3	23.4	28.4	45	351	1, 2, 3
12-CU-9	12-U-9	LIEBERT	MCS928E1	AIR-COOLED	5	-	208	3	3	3.8	15	377	1, 2, 3
14-CU-1	14-U-1	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3
18-CU-1	18-U-1	LIEBERT	PFH0707AH	AIR-COOLED	2	-	208	1	14.3	17.3	25	200	1, 2, 3
53-CU-1	53-U-1	LIEBERT	MCS928E1	AIR-COOLED	5	-	208	3	3	3.8	15	377	1, 2, 3
65-CU-1	65-U-1	LIEBERT	MCL110E8	AIR-COOLED	20	-	208	3	11.4	12.8	15	766	1, 2, 3
65-CU-2	65-U-2	LIEBERT	MCL110E8	AIR-COOLED	20	-	208	3	11.4	12.8	15	766	1, 2, 3
66-CU-1	66-U-1	LIEBERT	PFDD037AH	AIR-COOLED	3	1.93	208	1	24	29.2	45	241	1, 2, 3

DAY TANK SCHEDULE									
SYMBOL	MANUFACTURER	MODEL	LOCATION	FUEL TYPE	CAPACITY (GAL)	ELECTRICAL		WEIGHT (LBS)	NOTES
						VOLT	PHASE		
DT-1	SIMPLEX	ST560	BLDG 10	#2 DIESEL	60	120	1	325	1,2,3
NOTES:									
1. PROVIDE CRITICAL HIGH, HIGH, LOW, CRITICAL LOW & LEAK SENSOR.									
2. PROVIDE WITH FUEL PUMPS FOR GENSET SUPPLY (2X), GENSET RETURN (1X), AND DAY TANK OVERFLOW TO MAIN TANK (1X). REFER TO PUMP SCHEDULE.									
3. PROVIDE WITH DUPLEX PUMPS.									

NOTES

1. PROVIDE UNIT WITH FLENDITION OPTION
2. COMPUTER ROOM AIR CONDITIONING UNIT WITH DEDICATED HUMIDIFICATION AND DEHUMIDIFICATION CAPABILITIES.
3. PROVIDE WITH CONDENSATE PUMP. CONDENSATE PUMP SHALL BE POWERED BY INDOOR UNIT.
4. PROVIDE WITH COC INTERFACE. LOC. INTERFACE BOX SHALL BE MOUNTED SEPARATE FROM INDOOR UNIT AND SHALL REQUIRE SEPARATE 120V/1PH POWER SUPPLY.
5. PROVIDE WITH (1) LIBERTY VASA-14-COMM NETWORK SWITCH TO INTERCONNECT ALL CRAC UNITS IN BUILDING 65 ROOM 109. PROVIDE CAT-6 NETWORK WIRING AND CONDUIT ROUTED BELOW RAISED FLOOR SYSTEM TO CONNECT ALL (4) UNITS.
6. PROVIDE WITH (2) TEMPERATURE AND HUMIDITY SENSORS FOR INSTALLATION IN DATA CABINET. LOCATE SENSORS AT FRONT SIDE, BOTTOM/MIDDLE/TOP OF DATA CABINET.
7. PROVIDE WITH INVADED STATUS FOR USE WITH VIF RAISED FLOOR AIR DISTRIBUTION SYSTEMS.
8. PROVIDE WITH SMOKE DETECTOR FOR UNIT SHUTDOWN. DETECTOR MAY BE FACTORY INSTALLED FOR FIELD INSTALLATION.
9. PROVIDE WITH 3 WAY DIFFUSER. FIELD ATTACH 3 WAY DIFFUSER WITHOUT DAMAGING AIR HANDLING EQUIPMENT.
10. PROVIDE VIEWER INTERFACE CAPABILITY.
11. ELECTRICAL DISCONNECT SHALL BE PROVIDED BY DIVISION 23 CONTRACTOR WITH EQUIPMENT, AND SHALL BE FIELD INSTALLED.

## AIR CONDITIONING SYSTEMS - INDOOR UNIT SCHEDULE

SYMBOL	SERVICES	MANUFACTURER	MODEL	TYPE	TOTAL COOLING MBH	SENSIBLE COOLING MBH	SUPPLY FAN		FILTER	ELECTRICAL				WEIGHT (LBS)	MOUNTING	NOTES		
							CFM	WATT		ESP (IN WG)	EFFICIENCY	VOLT	PHASE				FLA	MCA
12-U-10	B12 ROOM C304	mitsubishi	SLZ-KF09NA	CEILING CASSETTE	9.0	9.0	230	50.00	-	MERV-8	208	1	1.35	0.25	15	31	CEILING	1,2,3,4,5
18-U-12	B18 ROOM 002	mitsubishi	TPCAD0241KA70A	CEILING SUSPENDED	24.0	24.0	600	95.00	-	MERV-8	208	1	1.35	1	15	71	CEILING	1,2,3,4,5

TES:

PROVIDE WITH CONDENSATE PUMP.

PROVIDE WITH TEMPERATURE SENSORS (3) FOR INSTALLATION IN DATA CABINET. LOCATE SENSORS AT FRONT SIDE, BOTTOM/MIDDLE/ TOP OF DATA CABINET.

PROVIDE WITH BMS INTERFACE CAPABILITY.

ELECTRICAL DISCONNECT SHALL BE PROVIDED BY DIVISION 23 CONTRACTOR WITH EQUIPMENT, AND SHALL BE FIELD INSTALLED.

400KVA UNIT IS POWERED BY THE OUTDOOR UNIT.

## FAN SCHEDULE

SYMBOL	SERIES	MANUFACTURER	MODEL	TYPE	NOMINAL TONS	SEER	EER	ELECTRICAL					WEIGHT (LBS)	NOTES
								VOLT	PHASE	FLA	MCA	MOCP		
12-CU-10	12-U-10	MITSUBISHI	SUZ-KA09NA2	AIR-COOLED	0.75	22.4	13.4	208	1	0.5	9	26	81	1.2
18-CU-2	18-U-2	MITSUBISHI	TRUYA0214A70BA	AIR-COOLED	2	21.2	12.2	208	1	0.5	19	26	151	1.2

NOTES:  
 PROVIDE WITH SINGLE POINT POWER CONNECTION.  
 ELECTRICAL DISCONNECT SHALL BE PROVIDED BY DIVISION 23 CONTRACTOR WITH EQUIPMENT. AND SHALL BE FIELD INSTALLED.

## HEATER SCHEDULE

## PUMP SCHEDULE

## PLUMBING FIXTURE SCHEDULE

## PIPE INSULATION SCHEDULE

## CONSULTANT

**STAMP**



**APPROVED:**

**FLS**

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

BUILDING NUMBER

DRAWING NUMBER

**MK-004**

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SYSTEM POINTS LIST - HVAC SYSTEMS																																	
SYSTEM POINT DESCRIPTION	ANALOG							BINARY					SYSTEM FEATURES							NOTES													
	INPUT				OUTPUT			INPUT		OUTPUT			ALARMS				PROGRAMS																
	TEMPERATURE	PRESSURE	REL	WALL	BTUH	GPM	PERCENT	CPH	SET POINT ADJ.	STATUS ON/OFF	FILE STATUS	STATUS	STATUS OPEN/CLOSED	NO. OF STARTS	TIMED OVERRIDE	ON/OFF	OPEN/CLOSE	LOCK/OUT	ENABLE/DISABLE		HIGH ANALOG	LOW ANALOG	HIGH BINARY	LOW BINARY	PROOF	SENSOR FAIL	FLOW FAIL	COMMUNICATIONS FAIL	DIAGNOSTICS	GENERAL ALARM	GRAPHICS	TRENDING	TIME SCHEDULING
COMPUTER ROOM AIR CONDITIONING UNIT																																	12
DISCHARGE AIR TEMPERATURE	X																													X	X		
DISCHARGE STATIC PRESSURE	X																													X	X		
RETURN AIR HUMIDITY		X																												X	X		
SUPPLY FAN STATUS											X										X	X							X	X			
HUMIDIFIER COMMAND											X										X	X							X	X			
DISCHARGE AIR TEMPERATURE SETPOINT								X																					X	X			
DISCHARGE AIR PRESSURE SETPOINT								X																					X	X			
COOLING SETPOINT								X																					X	X			
COOLING ENABLE																	X										X		X	X			
SCHEDULE COMMAND																													X	X			
UNIT ENABLE COMMAND																	X				X							X	X	X			
FIRE ALARM SHUTDOWN																X												X	X				
UNIT ALARM																													X	X			
RACK TEMPERATURE SENSOR (3 EACH)								X																				X	X			3	
RACK HUMIDITY SENSOR (3 EACH)								X																				X	X			4	
TEMPERATURE AND HUMIDITY SENSOR (H/E/TE)																																	
SPACE TEMPERATURE	X																			X	X				X	X	X	X	X	X		5	
SPACE HUMIDITY		X																		X	X			X	X	X	X	X	X	X		5	
AIR CONDITIONING UNIT 18-IJOU-2																																	
DISCHARGE AIR TEMPERATURE	X																												X	X		12	
DISCHARGE STATIC PRESSURE	X																												X	X			
SUPPLY FAN STATUS										X											X	X							X	X			
COOLING SETPOINT								X																				X	X				
COOLING ENABLE																	X										X		X				
SCHEDULE COMMAND																													X	X			
UNIT ENABLE COMMAND																	X				X							X	X	X			
FIRE ALARM SHUTDOWN																X												X	X				
UNIT ALARM																													X	X			
RACK TEMPERATURE SENSOR (3 EACH)								X																				X	X			3	
TEMPERATURE SENSOR (TE)																																	
SPACE TEMPERATURE	X																			X	X			X	X	X	X	X	X			5	
LEAK DETECTORS											X																	X					
NOTES: 1. INTEGRATE ALL POINTS AVAILABLE FROM FACTORY UNIT CONTROLLER INTO DDC SYSTEM. 2. PROVIDE GATEWAY IF REQUIRED TO CONNECT FACTORY UNIT CONTROLLER TO DDC SYSTEM. 3. PROVIDE HIGH, MIDDLE, AND LOW TEMPERATURE SENSORS IN RACK. 4. PROVIDE HIGH, MIDDLE, AND LOW HUMIDITY SENSORS IN RACK. 5. SPACE TEMPERATURE AND HUMIDITY SENSORS MAY BE PROVIDED AS SEPARATE SENSORS OR COMBINED SENSOR UNITS.																																	

SEQUENCE OF OPERATIONS

1. COMPUTER ROOM AIR CONDITIONING UNIT — MCR SPACES
- 1.1 DESCRIPTION: COMPUTER ROOM AIR CONDITIONING UNITS TO PROVIDE TEMPERATURE AND HUMIDITY CONTROL TO THE SPACES THAT THEY SERVE.
- 1.2 SPACE CONDITIONING: CRAC UNITS SHALL RECEIVE TEMPERATURE AND HUMIDITY SETPOINTS FROM THE BUILDING DDC SYSTEM. THE UNITS SHALL OPERATE DURING BOTH OCCUPIED AND UNOCCUPIED HOURS USING MANUFACTURER'S PREPROGRAMMED SEQUENCES TO HEAT, COOL, DEHUMIDIFY, AND HUMIDIFY THE SPACE TO MAINTAIN CONDITION REQUIREMENTS SPECIFIED FOR THE DATA CENTER EQUIPMENT.
- 1.3 LEAD-LAG CONTROL: LEAD CRAC UNIT SHALL OPERATE TO CONDITION THE ROOM SPACE IF THE LEAD PUMP FAILS TO MAINTAIN THE ROOM SPACE SETPOINT FOR 5 MINUTES (USER ADJUSTABLE). THE LAG UNIT SHALL ENABLE ON UNTIL THE ROOM SPACE SETPOINT IS MET. LEAD-LAG CRAC UNITS SHALL ROTATE OPERATION PER THE MANUFACTURER'S RECOMMENDED ROTATION SCHEDULE IN CONFORMANCE TO THE ROOM COOLING CAPACITY REQUIREMENTS.
- 1.4 SPACE CONDITION MONITORING: THE DDC SHALL MONITOR THE ROOM SPACE USING WALL MOUNTED HUMIDITY AND TEMPERATURE SENSORS. THE CRAC UNIT SHALL MONITOR THE RACK SPACE USING DEDICATED CRAC UNIT WIRED HUMIDITY AND TEMPERATURE SENSORS THAT ARE MOUNTED IN THE RACK SPACE (3 EACH PER RACK SPACE). IF CONDITIONS IN THE ROOM SPACE OR RACK SPACE ARE ABOVE OR BELOW THE ALLOWABLE CONDITIONS (USER ADJUSTABLE MIN AND MAX SETPOINTS FOR TEMPERATURE AND HUMIDITY) FOR 5 MIN (ADJUSTABLE) OR MORE, AN ALARM SHALL BE INITIATED ON THE DDC SYSTEM.
- 1.5 FIRE SHUTDOWN: THE HVAC SYSTEM WILL SHUTDOWN ON A FIRE ALARM SIGNAL FROM THE BUILDING FIRE ALARM SYSTEM. THIS IS DONE THRU AN INTERLOCKING SAFETY RELAY THAT REMOVES CONTROL POWER TO THE DDC.
- 1.5.1 FAN(S) SHALL BE DEACTIVATED.
- 1.5.2 COMPRESSORS(S) SHALL BE ACTIVATED.
- 1.6 HUMIDITY SENSOR AND TEMPERATURE SENSOR
- 1.6.1 DDC MONITORING (TE): DDC TO MONITOR AND TREND THE ROOM AND RACK TEMPERATURE.
- 1.6.2 DDC MONITORING (HE): DDC TO MONITOR AND TREND THE ROOM AND RACK RELATIVE HUMIDITY.
- 1.6.3 ALARM: TEMPERATURE SENSOR (TE): DDC TO MONITOR TEMPERATURE AND SEND AN ALARM IF TEMPERATURE EXCEEDS TEMPERATURE SETPOINT BY 5°F FOR MORE THAN 5 MINUTES (USER ADJUSTABLE FOR TIME AND VALUE OUTSIDE RANGE).
- 1.6.4 ALARM: HUMIDITY SENSOR (HE): DDC TO MONITOR RELATIVE HUMIDITY AND SEND AN ALARM IF HUMIDITY EXCEEDS TEMPERATURE SETPOINT BY 2% FOR MORE THAN 5 MINUTES (USER ADJUSTABLE FOR TIME AND VALUE OUTSIDE RANGE).
- 1.7 HUMIDITY AND TEMPERATURE SETPOINTS — MCR SPACES
- 1.7.1 TEMPERATURE
- 1.7.1.1 LOW TEMPERATURE SETPOINT: 72°F
- 1.7.1.2 HIGH TEMPERATURE SETPOINT: 80.6°F
- 1.7.2 HUMIDITY
- 1.7.2.1 LOW HUMIDITY SETPOINT 8%RH
- 1.7.2.2 HIGH HUMIDITY SETPOINT 60%RH
2. COMPUTER ROOM AIR CONDITIONING UNIT — TR SPACES
- 2.1 DESCRIPTION: COMPUTER ROOM AIR CONDITIONING UNITS TO PROVIDE TEMPERATURE AND HUMIDITY CONTROL TO THE SPACES THAT THEY SERVE.
- 2.2 SPACE CONDITIONING: CRAC UNITS SHALL RECEIVE TEMPERATURE AND HUMIDITY SETPOINTS FROM THE BUILDING DDC SYSTEM. THE UNITS SHALL OPERATE DURING BOTH OCCUPIED AND UNOCCUPIED HOURS USING MANUFACTURER'S PREPROGRAMMED SEQUENCES TO HEAT, COOL, DEHUMIDIFY, AND HUMIDIFY THE SPACE TO MAINTAIN CONDITION REQUIREMENTS SPECIFIED FOR THE DATA CENTER EQUIPMENT.
- 2.3 SPACE CONDITION MONITORING: THE DDC SYSTEM SHALL MONITOR THE SPACE USING DEDICATED TEMPERATURE AND HUMIDITY SENSORS. IF CONDITIONS IN THE SPACE ARE ABOVE OR BELOW THE ALLOWABLE CONDITIONS (USER ADJUSTABLE MIN AND MAX SETPOINTS FOR TEMPERATURE AND HUMIDITY) FOR 5 MIN (ADJUSTABLE) OR MORE, AN ALARM SHALL BE INITIATED ON THE DDC SYSTEM.
- 2.4 FIRE SHUTDOWN: THE HVAC SYSTEM WILL SHUTDOWN ON A FIRE ALARM SIGNAL FROM THE BUILDING FIRE ALARM SYSTEM. THIS IS DONE THRU AN INTERLOCKING SAFETY RELAY THAT REMOVES CONTROL POWER TO THE DDC.
- 2.4.1 FAN(S) SHALL BE DEACTIVATED.
- 2.4.2 COMPRESSORS(S) SHALL BE DEACTIVATED.
- 2.5 HUMIDITY SENSOR AND TEMPERATURE SENSOR
- 2.5.1 DDC MONITORING (TE): DDC TO MONITOR AND TREND THE ROOM TEMPERATURE.
- 2.5.2 DDC MONITORING (HE): DDC TO MONITOR AND TREND THE ROOM RELATIVE HUMIDITY.
- 2.5.3 ALARM: TEMPERATURE SENSOR (TE): DDC TO MONITOR TEMPERATURE AND SEND AN ALARM IF TEMPERATURE EXCEEDS TEMPERATURE SETPOINT BY 5°F FOR MORE THAN 5 MINUTES (USER ADJUSTABLE FOR TIME AND VALUE OUTSIDE RANGE).
- 2.5.4 ALARM: HUMIDITY SENSOR (HE): DDC TO MONITOR RELATIVE HUMIDITY AND SEND AN ALARM UPON FAILURE TO MEET HUMIDITY SETPOINTS.
- 2.6 HUMIDITY AND TEMPERATURE SETPOINTS — TR SPACES
- 2.6.1 TEMPERATURE
- 2.6.2 LOW TEMPERATURE SETPOINT: 41°F
- 2.6.3 HIGH TEMPERATURE SETPOINT: 95°F
- 2.6.4 HUMIDITY
- 2.6.5 LOW HUMIDITY SETPOINT 8%RH
- 2.6.5.1 HIGH HUMIDITY SETPOINT 80%RH
3. AIR CONDITIONING UNIT — 18-IJOU-2
- 3.1 DESCRIPTION: AIR CONDITIONING (AC) UNIT 18-IJOU-2 TO PROVIDE SUPPLEMENTAL TEMPERATURE CONTROL TO THE SPACE THAT IT SERVES.
- 3.2 SPACE CONDITIONING: 18-IJOU-1 SHALL BE THE PRIMARY HVAC SYSTEM TO PROVIDE HEATING, COOLING, HUMIDIFICATION AND DEHUMIDIFICATION TO THIS SPACE. IF 18-IJOU-1 IS UNABLE TO MEET THE SPACE COOLING CONDITIONS, AFTER 5 MINUTES, 18-IJOU-2 SHALL ENABLE ON TO PROVIDE SUPPLEMENTAL COOLING. 18-IJOU-2 SHALL RECEIVE TEMPERATURE FROM THE BUILDING DDC SYSTEM. THE UNIT SHALL OPERATE DURING BOTH OCCUPIED AND UNOCCUPIED HOURS USING MANUFACTURER'S PREPROGRAMMED SEQUENCES TO COOL THE SPACE TO MAINTAIN CONDITION REQUIREMENTS SPECIFIED FOR THE DATA CENTER EQUIPMENT.
- 3.3 SPACE CONDITION MONITORING: THE DDC SYSTEM SHALL MONITOR THE SPACE USING DEDICATED TEMPERATURE SETPOINTS. IF CONDITIONS IN THE SPACE ARE ABOVE THE ALLOWABLE CONDITIONS (USER ADJUSTABLE MIN AND MAX SETPOINTS FOR TEMPERATURE AND HUMIDITY) FOR 5 MIN (ADJUSTABLE) OR MORE, AN ALARM SHALL BE INITIATED ON THE DDC SYSTEM.
- 3.4 FIRE SHUTDOWN: THE AC SYSTEM WILL SHUTDOWN ON A FIRE ALARM SIGNAL FROM THE BUILDING FIRE ALARM SYSTEM. THIS IS DONE THRU AN INTERLOCKING SAFETY RELAY THAT REMOVES CONTROL POWER TO THE DDC.
- 3.4.1 FAN(S) SHALL BE DEACTIVATED.
- 3.4.2 COMPRESSORS(S) SHALL BE DEACTIVATED.
4. TEMPERATURE SENSORS
- 4.1 DDC MONITORING (TE): DDC SHALL MONITOR AND TREND THE ROOM TEMPERATURE.
- 4.2 ALARM: TEMPERATURE SENSOR (TE): DDC TO MONITOR TEMPERATURE AND SEND AN ALARM IF TEMPERATURE IS OUTSIDE OF SETPOINT RANGE BY 5°F FOR MORE THAN 5 MINUTES (USER ADJUSTABLE FOR TIME AND VALUE OUTSIDE RANGE).
5. HUMIDITY SENSORS
- 5.1 DDC MONITORING (HE): DDC SHALL MONITOR AND TREND THE ROOM HUMIDITY.
- 5.2 ALARM: HUMIDITY SENSOR (HE): DDC TO MONITOR HUMIDITY AND SEND AN ALARM IF HUMIDITY IS OUTSIDE OF SETPOINT RANGE BY 2% FOR MORE THAN 5 MINUTES (USER ADJUSTABLE FOR TIME AND VALUE OUTSIDE RANGE).
6. LEAK DETECTORS
- 6.1 DDC MONITORING: DDC SHALL MONITOR LEAK DETECTORS.
- 6.2 ALARM: DDC SHALL SEND AN ALARM IF LEAK IS DETECTED.

Revisions:	Date:

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PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

DRAWING TITLE  
MECHANICAL CONTROLS  
INFORMATION

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

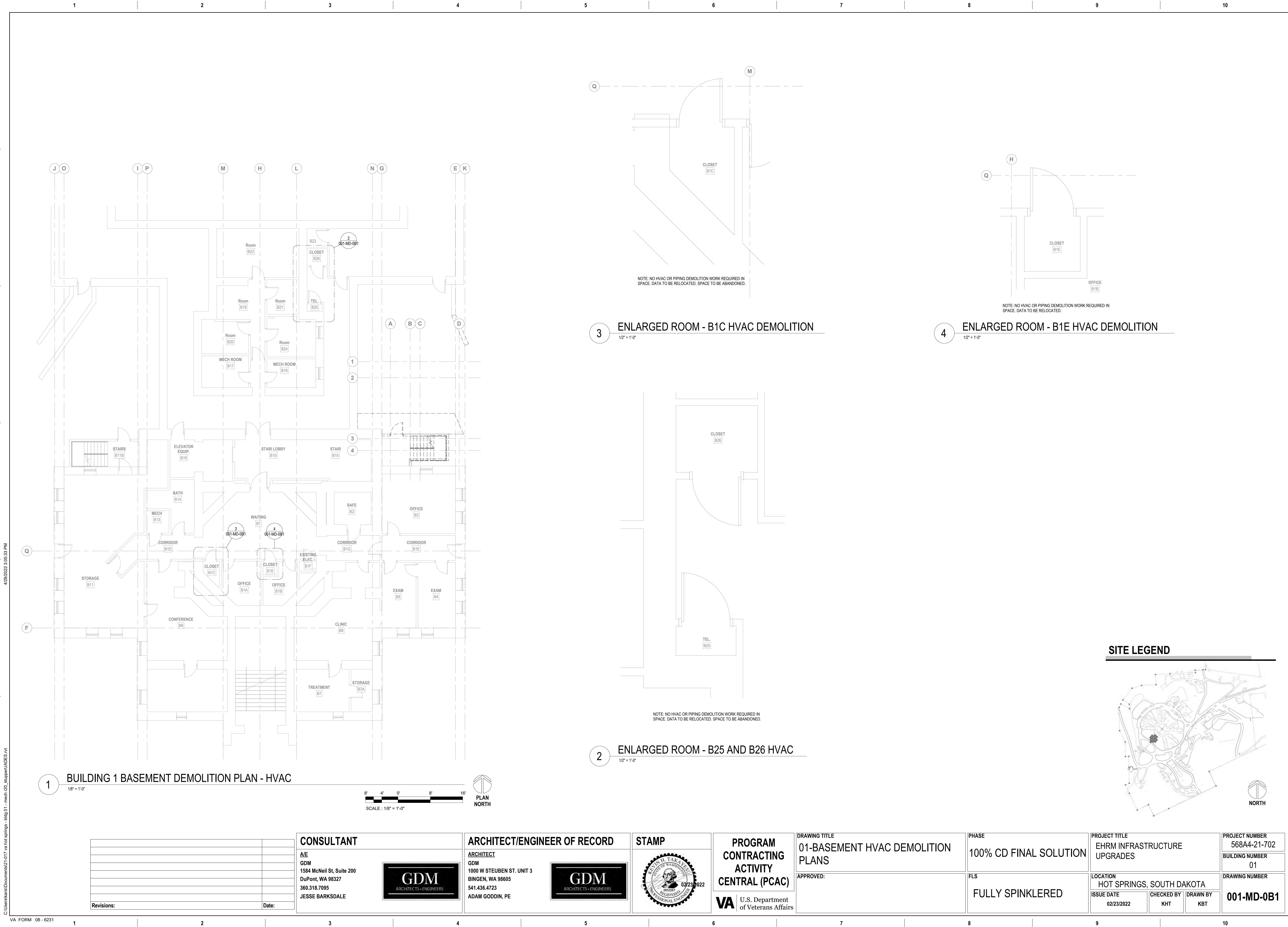
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KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
-

DRAWING NUMBER  
MK-005





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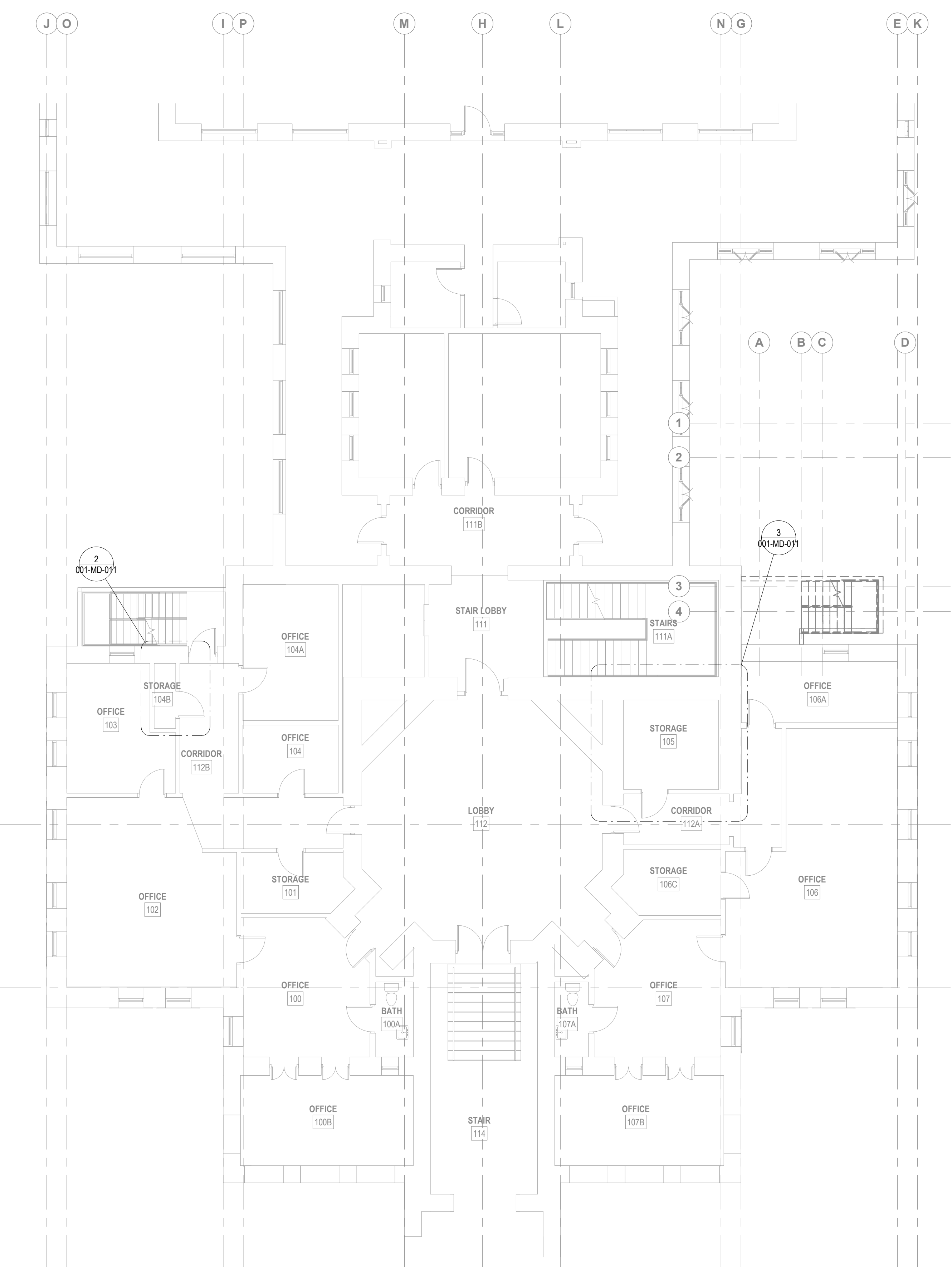
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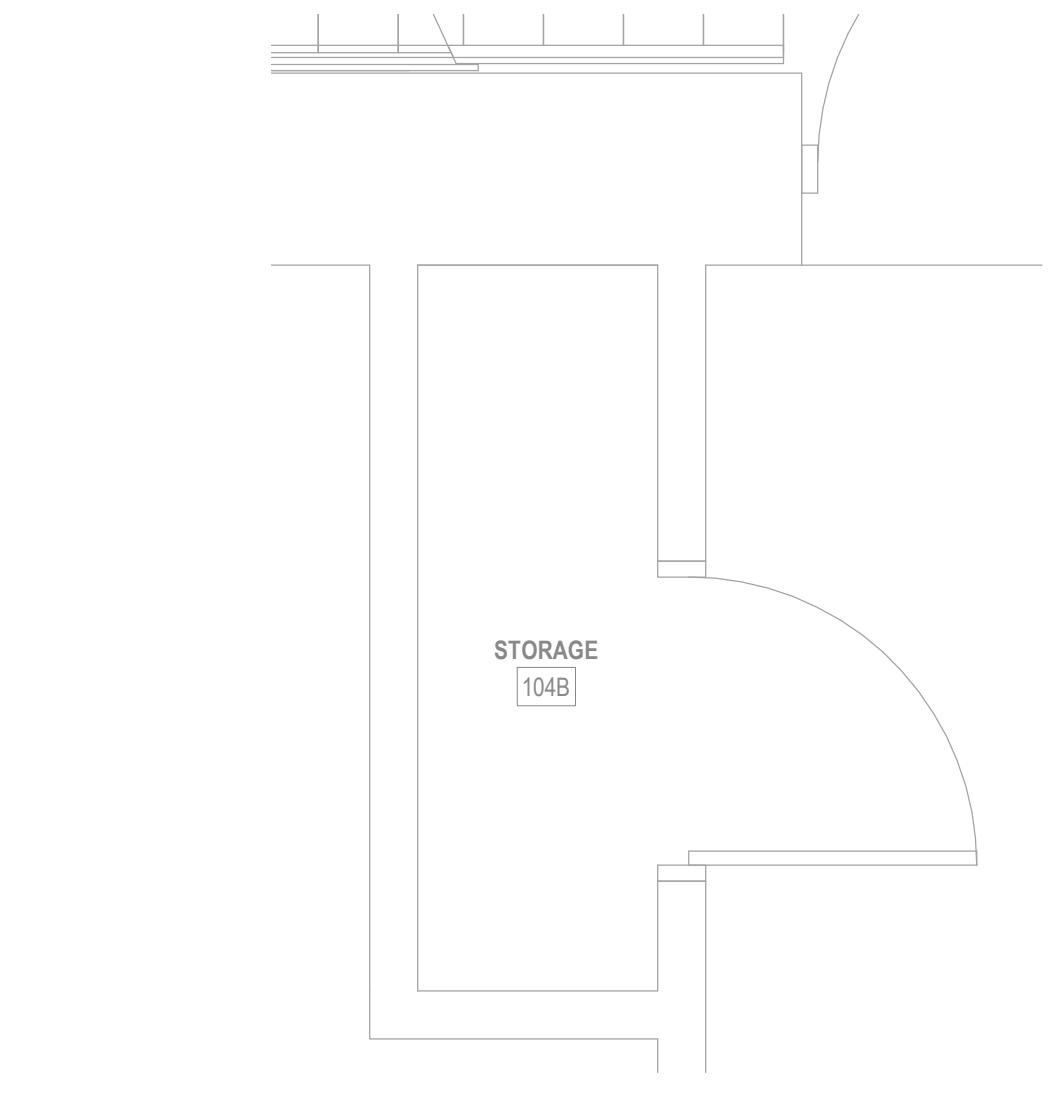
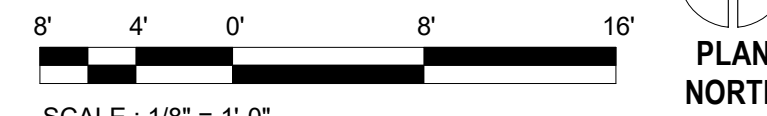
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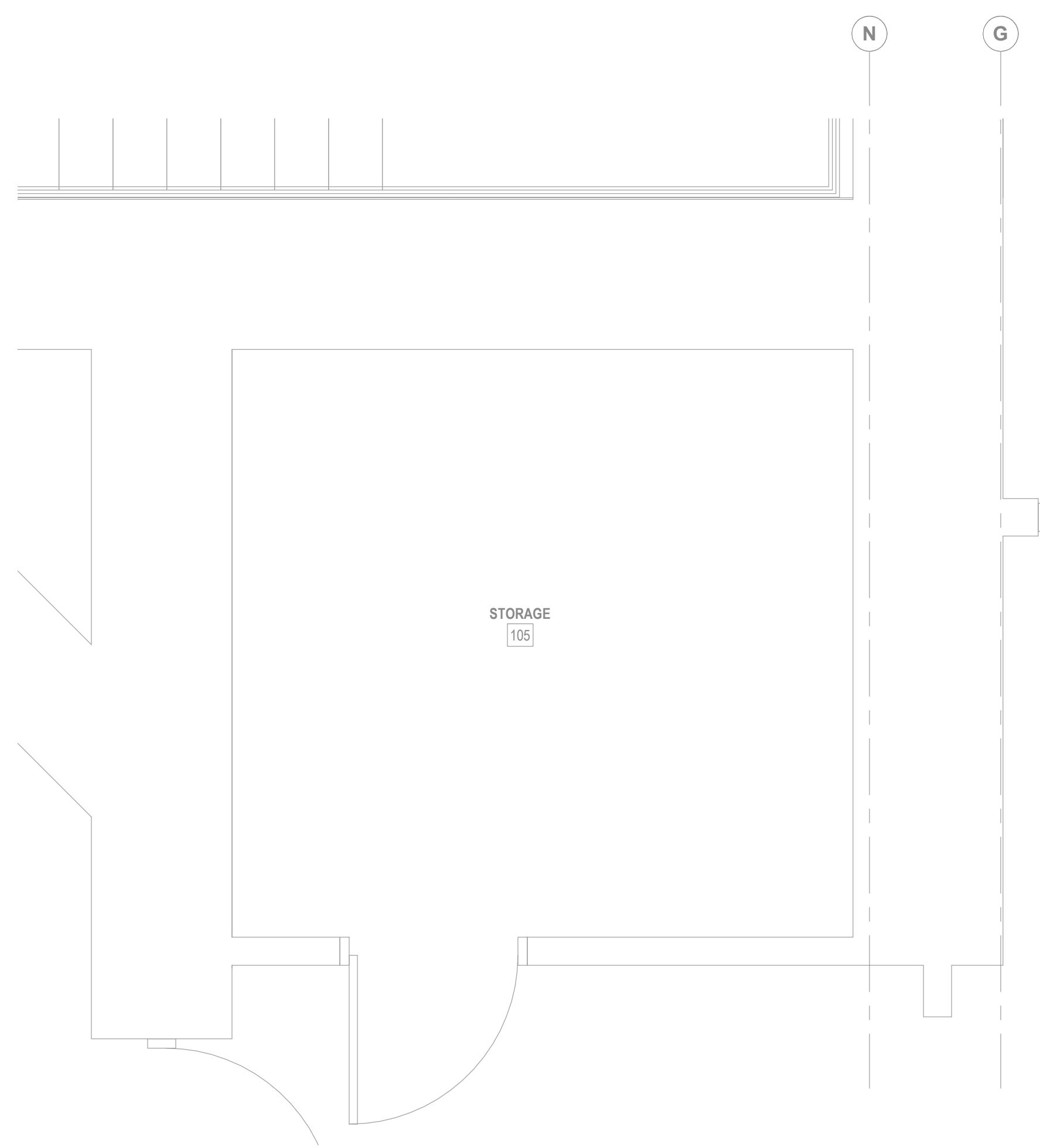
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1 BUILDING 1 FIRST FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"

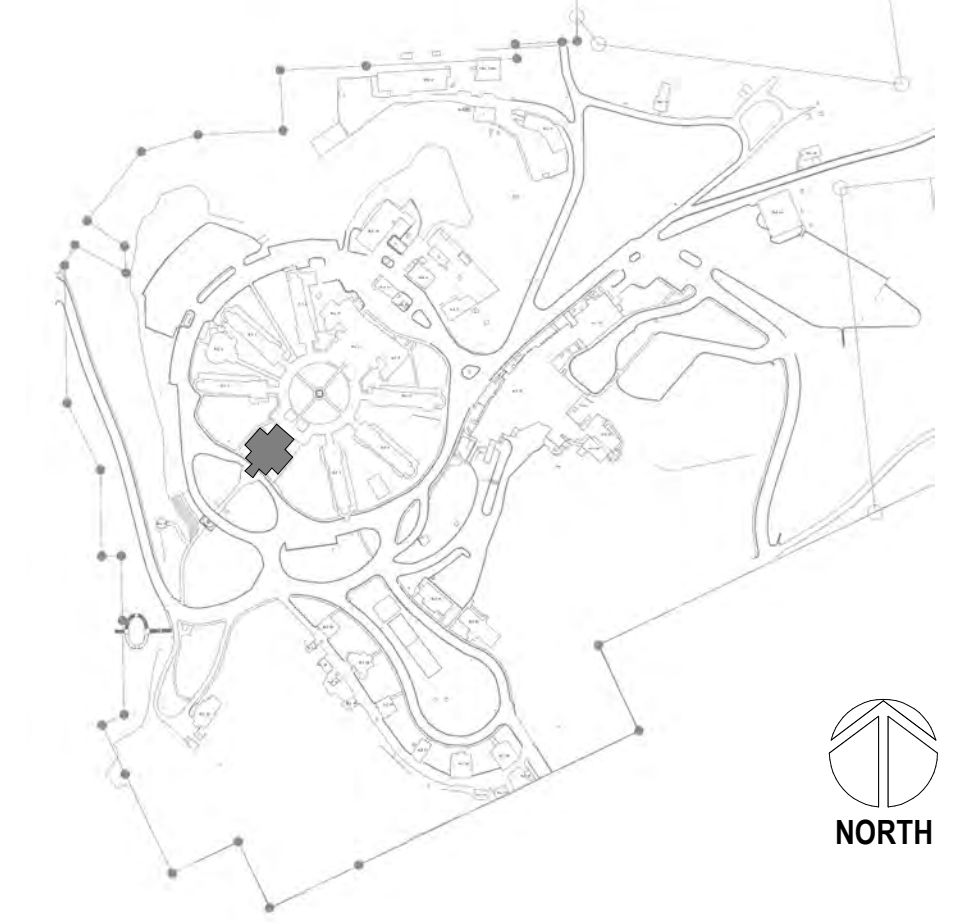


2 ENLARGED ROOM - 104B HVAC DEMOLITION  
1/2" = 1'-0"



3 ENLARGED ROOM - 105 HVAC DEMOLITION  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**  
VA U.S. Department of Veterans Affairs

DRAWING TITLE  
01-FIRST FLOOR HVAC DEMOLITION

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

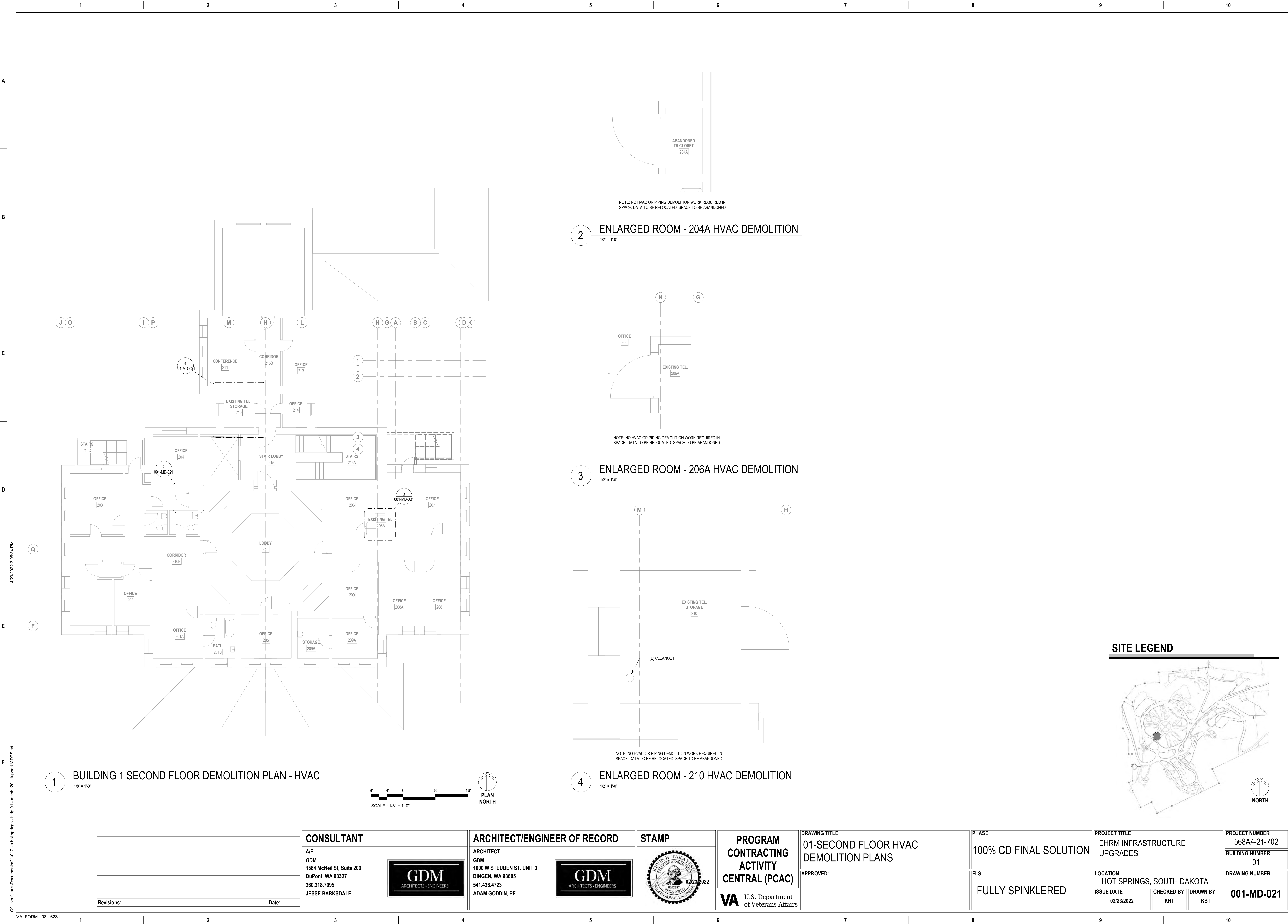
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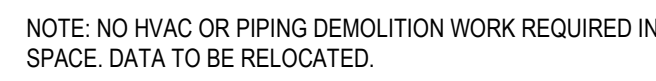
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KBT

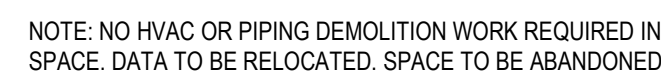
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BUILDING NUMBER  
01  
DRAWING NUMBER  
001-MD-011







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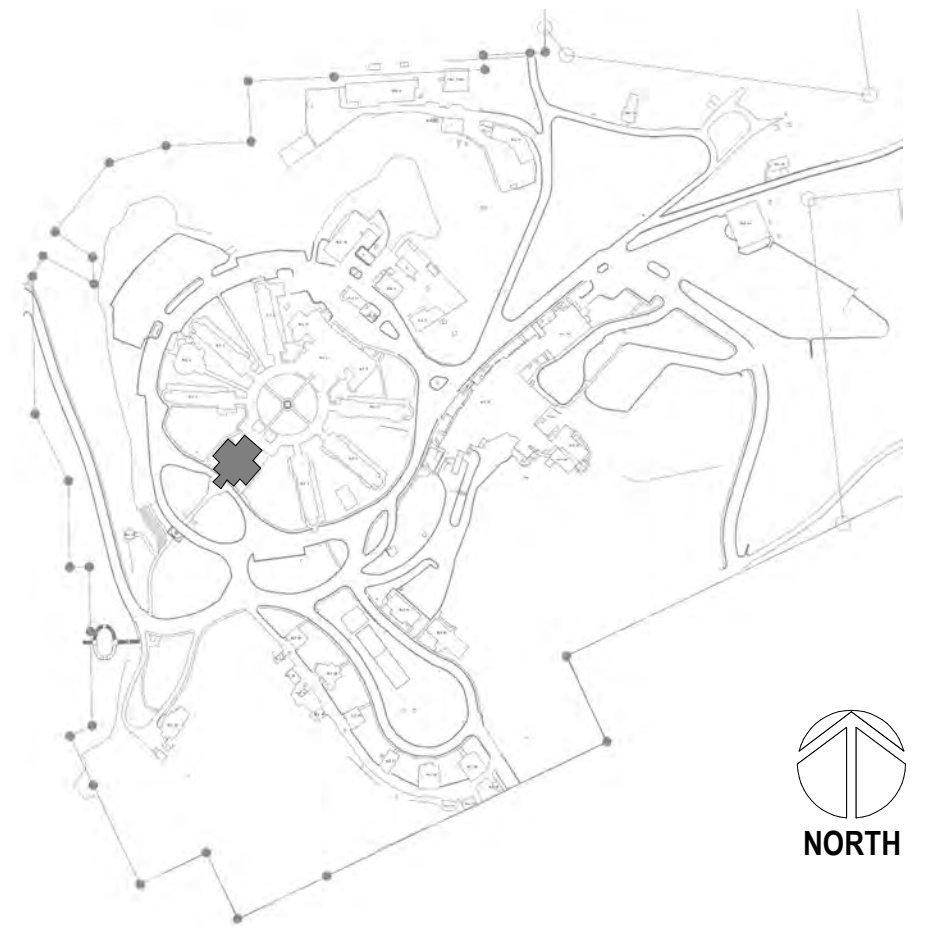
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DRAWING TITLE	
01-THIRD FLOOR HVAC DEMOLITION PLANS	
APPROVED:	

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

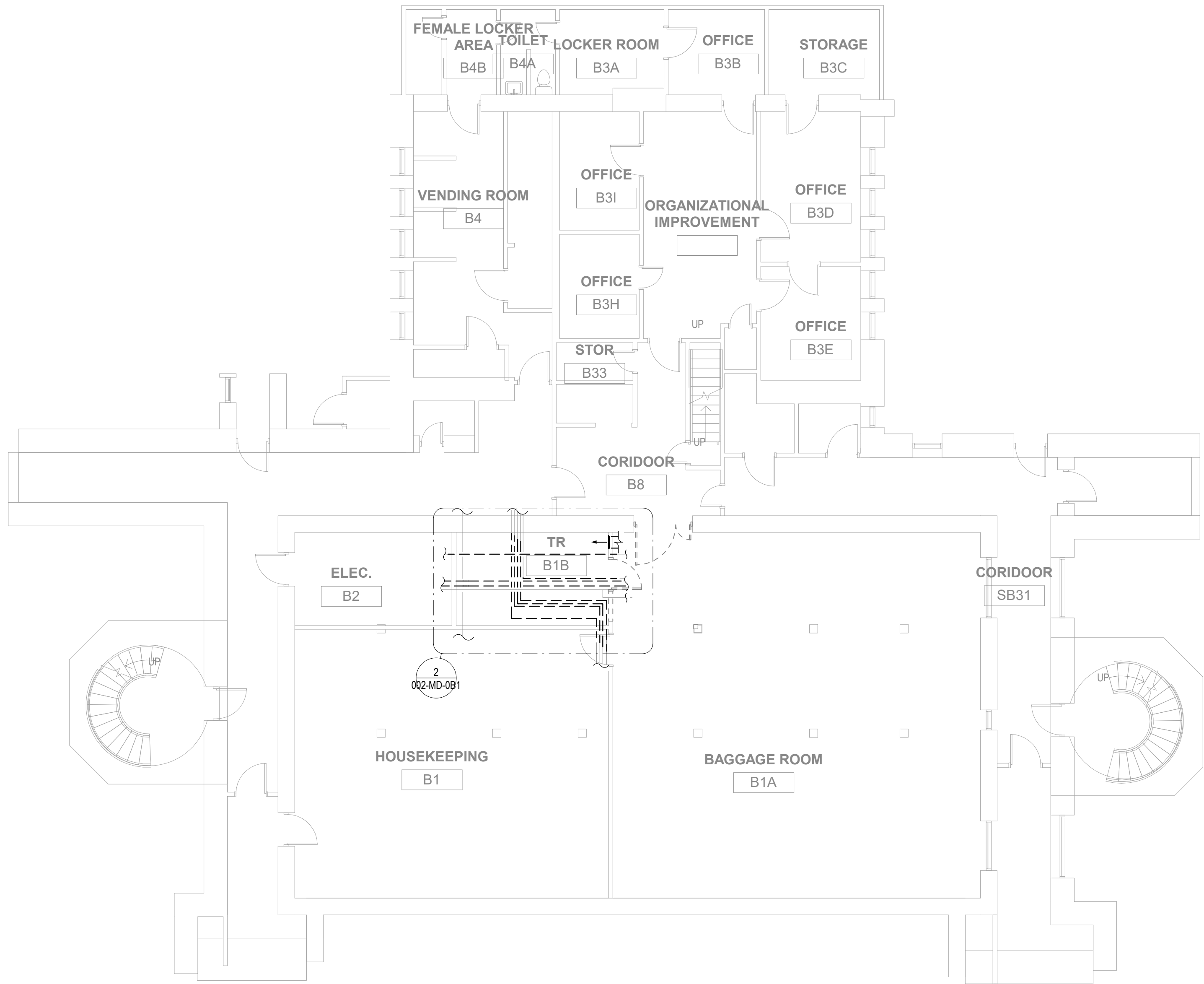
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BUILDING NUMBER
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DRAWING NUMBER
001-MD-031



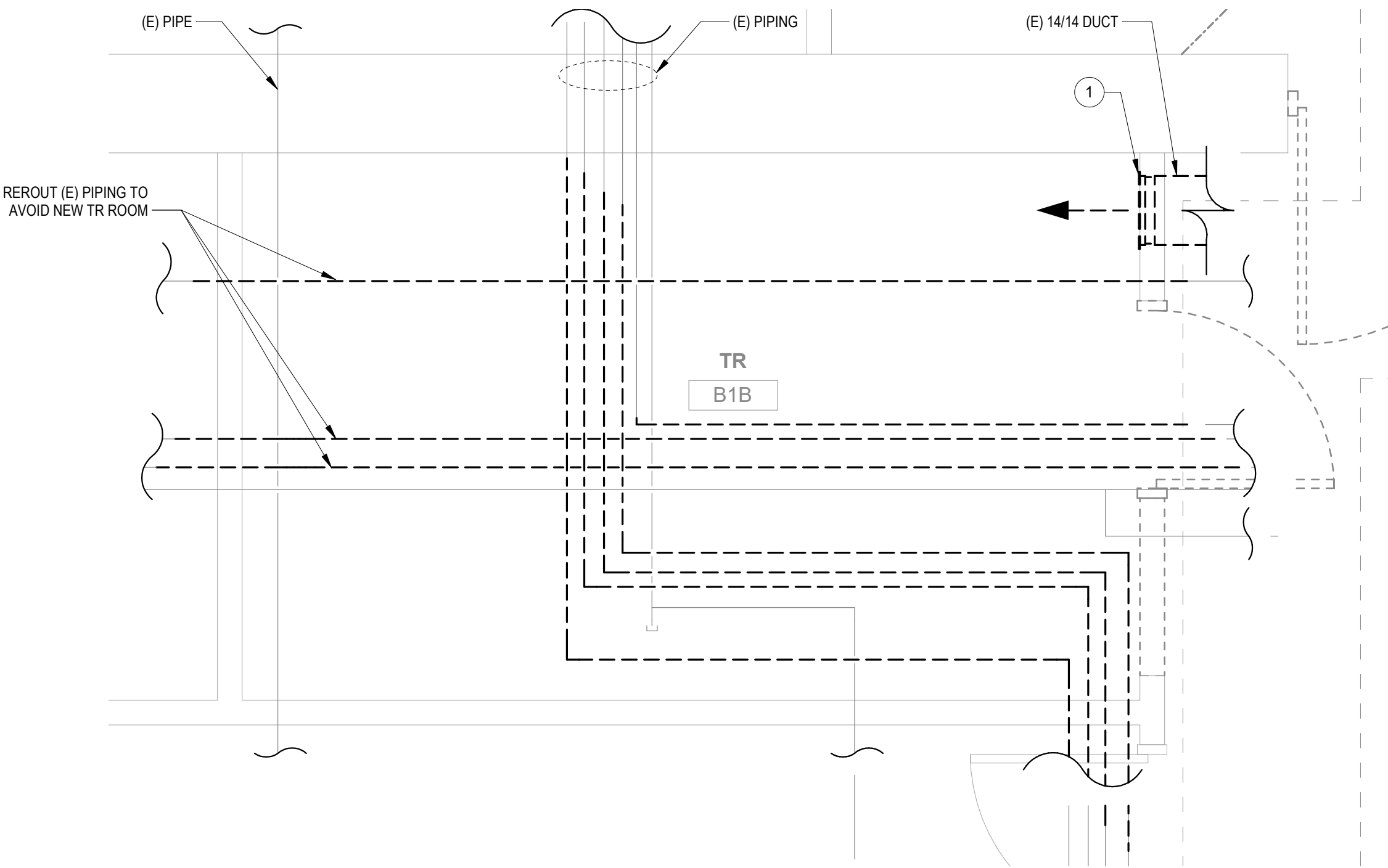
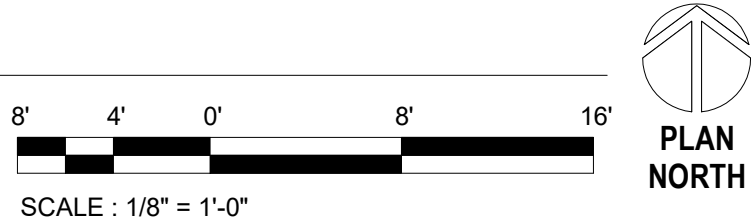


PLAN NOTES

1 DEMOLISH EXISTING AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO BRANCH AND CAP.

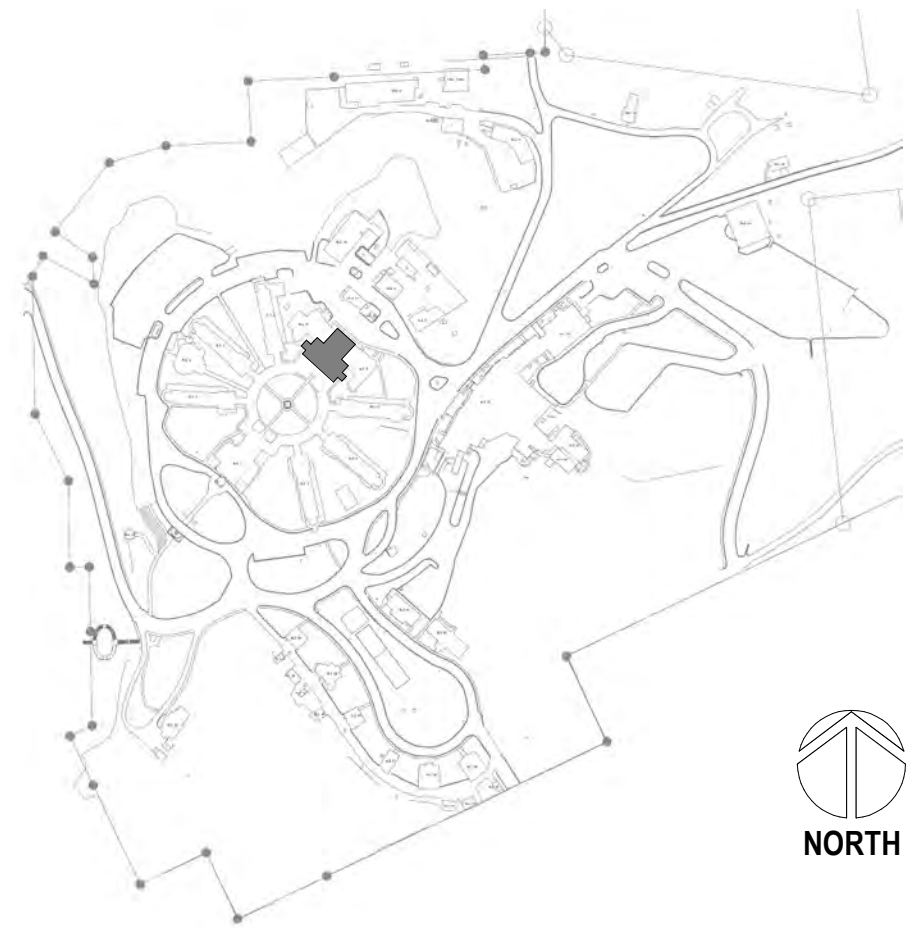


1 BUILDING 2 BASEMENT DEMOLITION PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED ROOM - B1B HVAC DEMOLITON  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

**CONSULTANT**

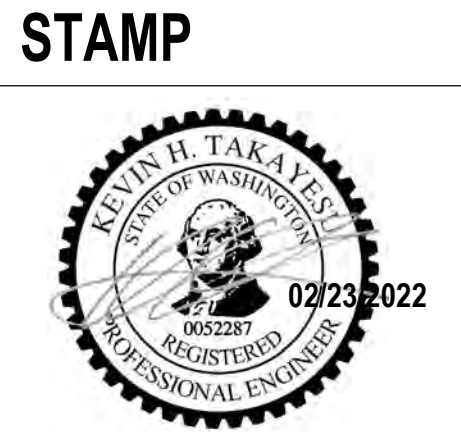
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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE  
**02-BASEMENT HVAC DEMOLITION PLANS**

APPROVED:

PHASE  
**100% CD FINAL SOLUTION**

FLS  
**FULLY SPRINKLERED**

PROJECT TITLE  
**EHRM INFRASTRUCTURE UPGRADES**

LOCATION  
**HOT SPRINGS, SOUTH DAKOTA**

ISSUE DATE  
**02/23/2022**

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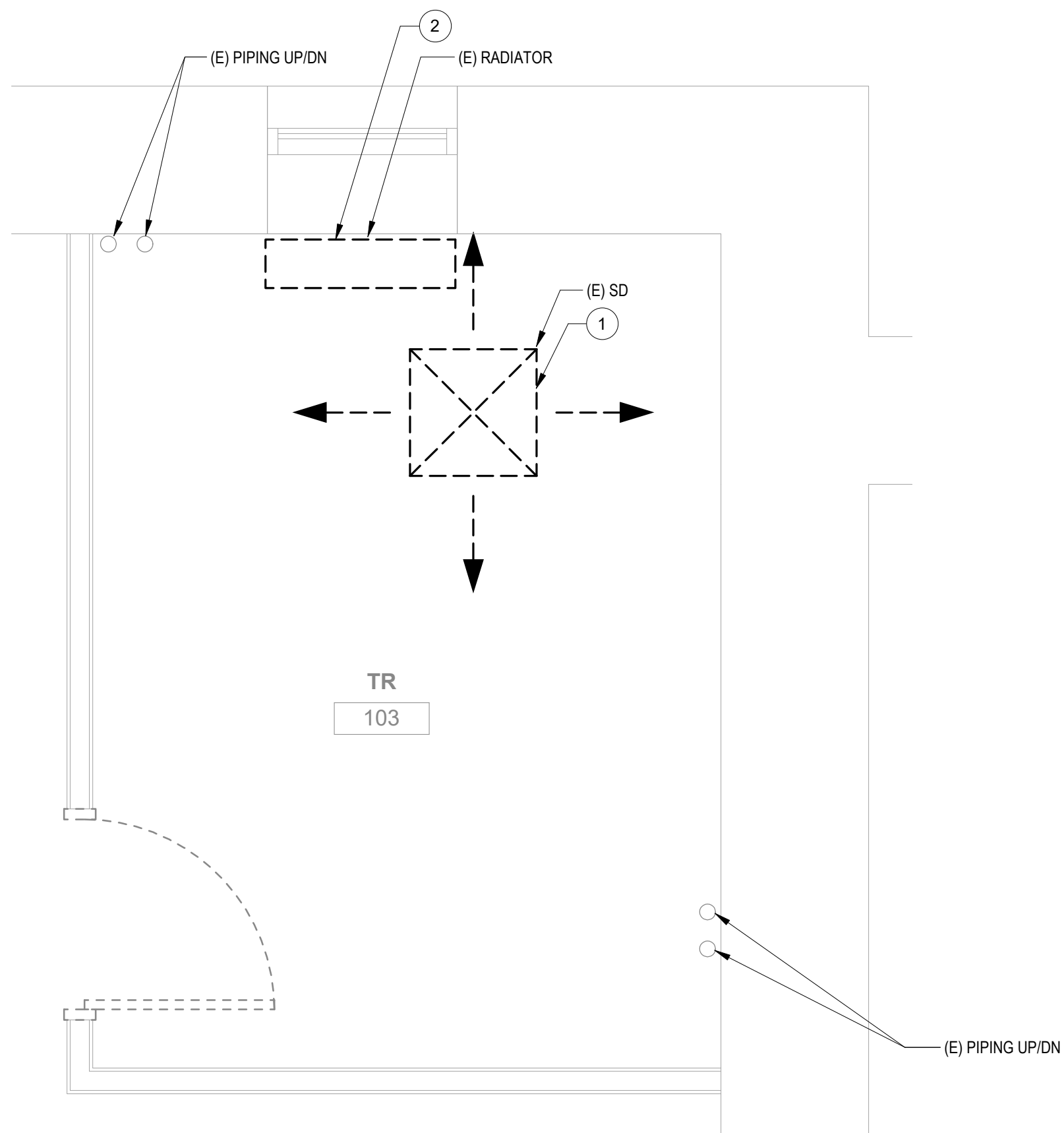
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BUILDING NUMBER  
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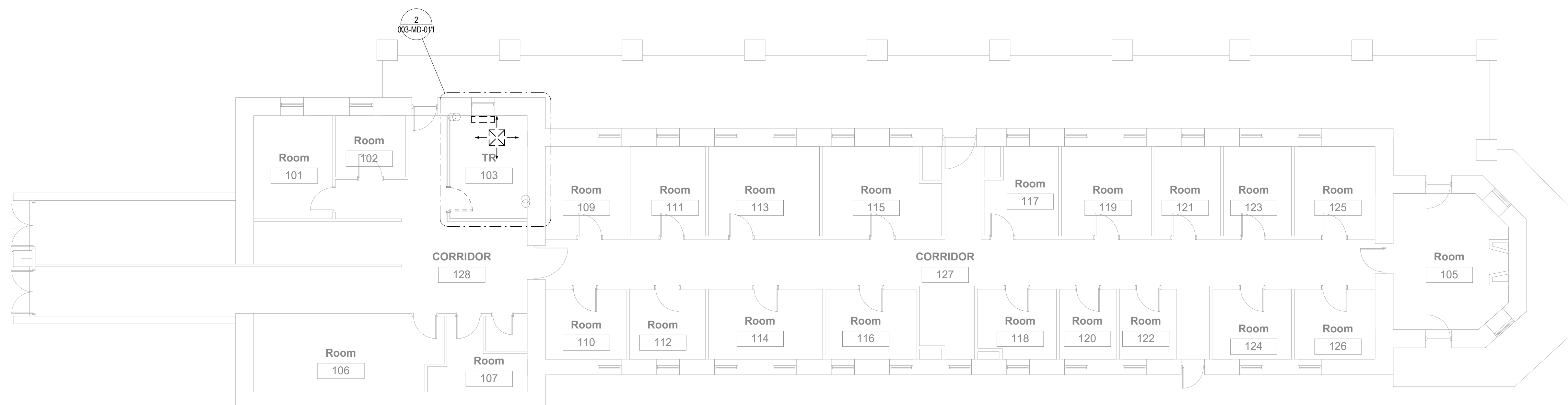
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## PLAN NOTES

- 1 DEMOLISH EXISTING AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO BRANCH AND CAP.  
2 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN  
BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST  
CONTROL PANEL OR JUNCTION BOX.

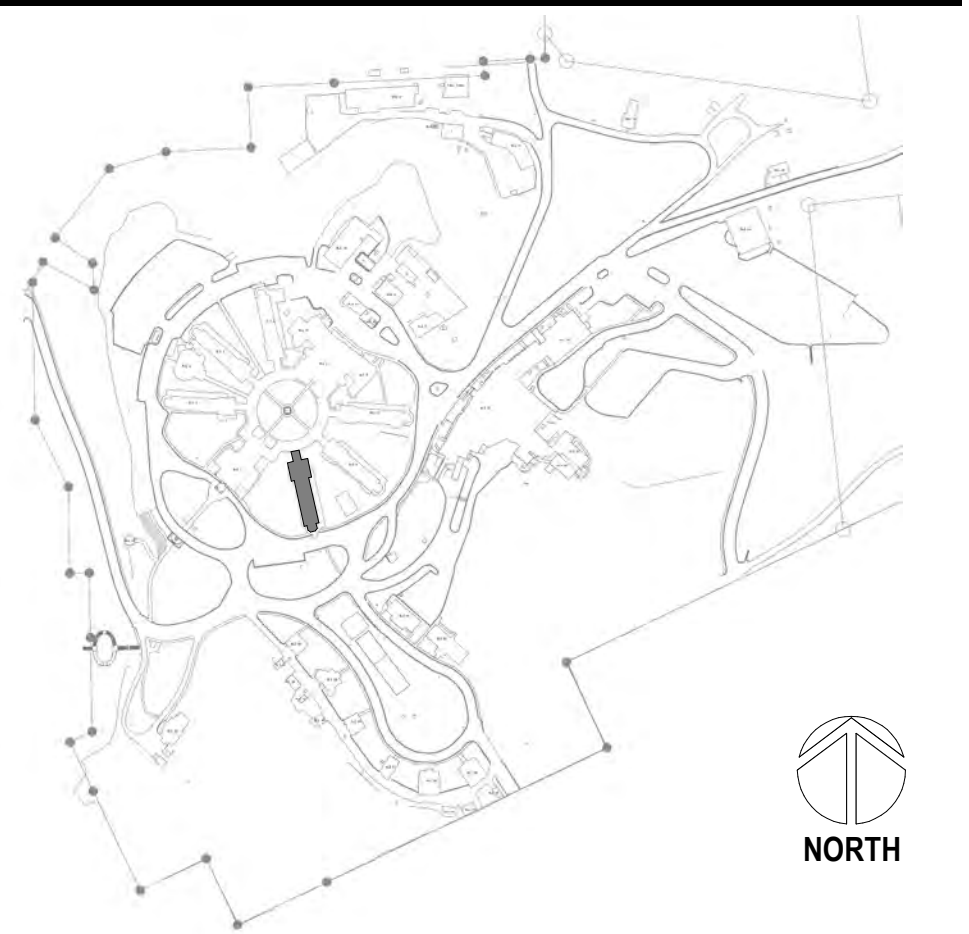


2 ENLARGED ROOM - 103 HVAC DEMOLITION  
1/2" = 1'-0"



1 BUILDING 3 FIRST FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"

## SITE LEGEND



<b>Revisions:</b>	<b>Date:</b>

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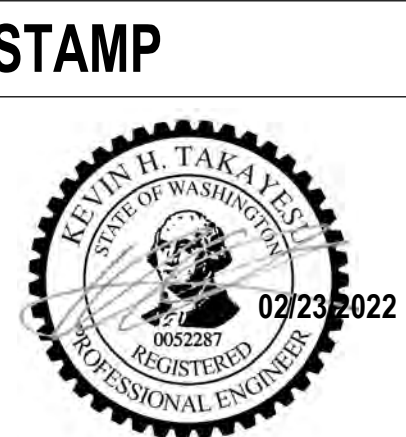


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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE

03-FIRST FLOOR HVAC DEMOLITION  
PLANS

APPROVED:

PHASE

100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
03
DRAWING NUMBER
003-MD-011



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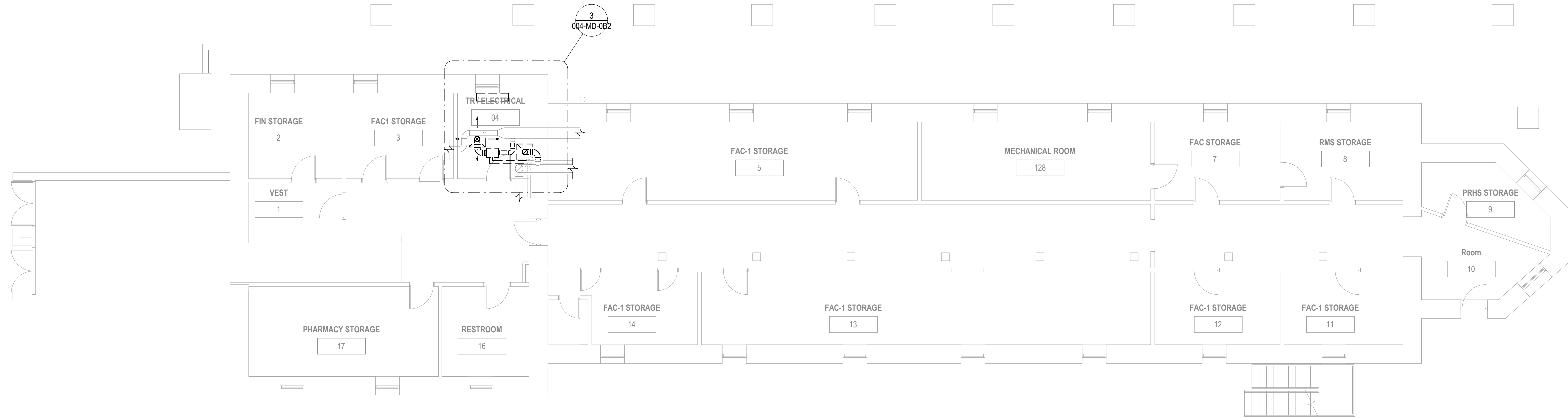
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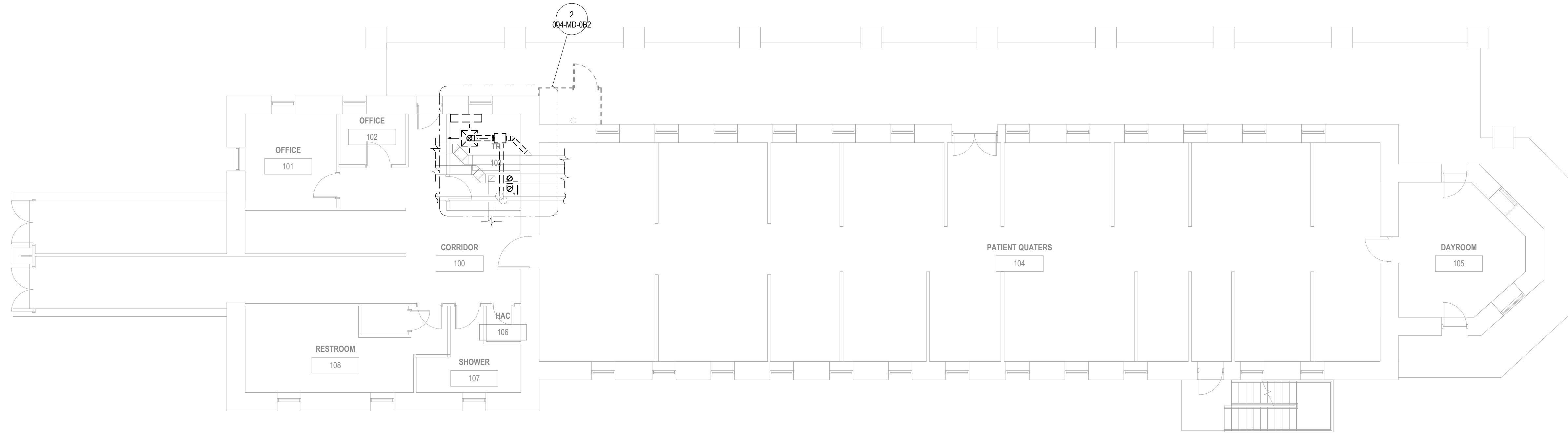
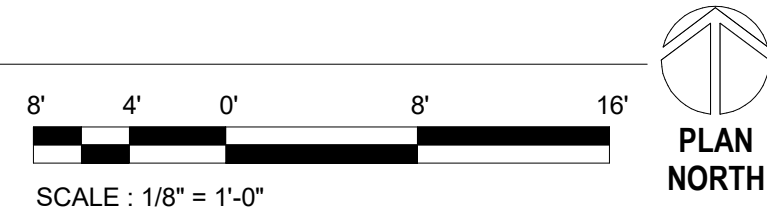
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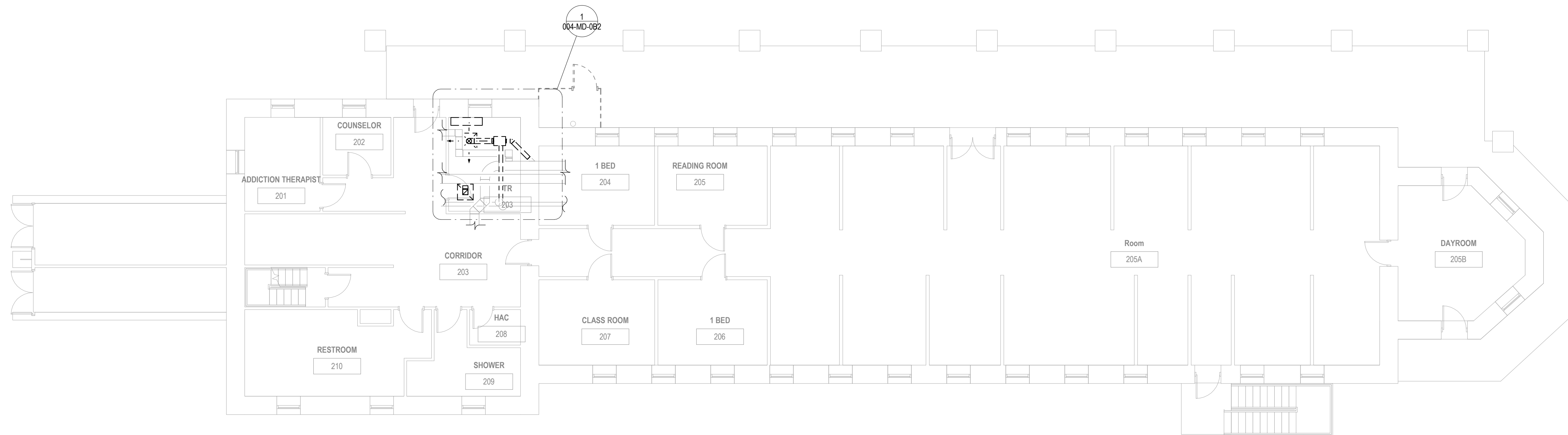
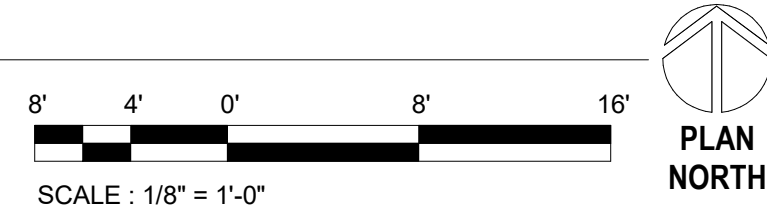
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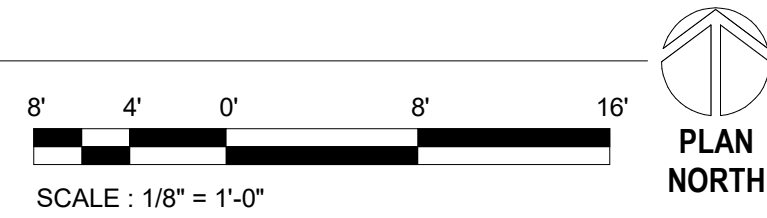
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1/8" = 1'-0"



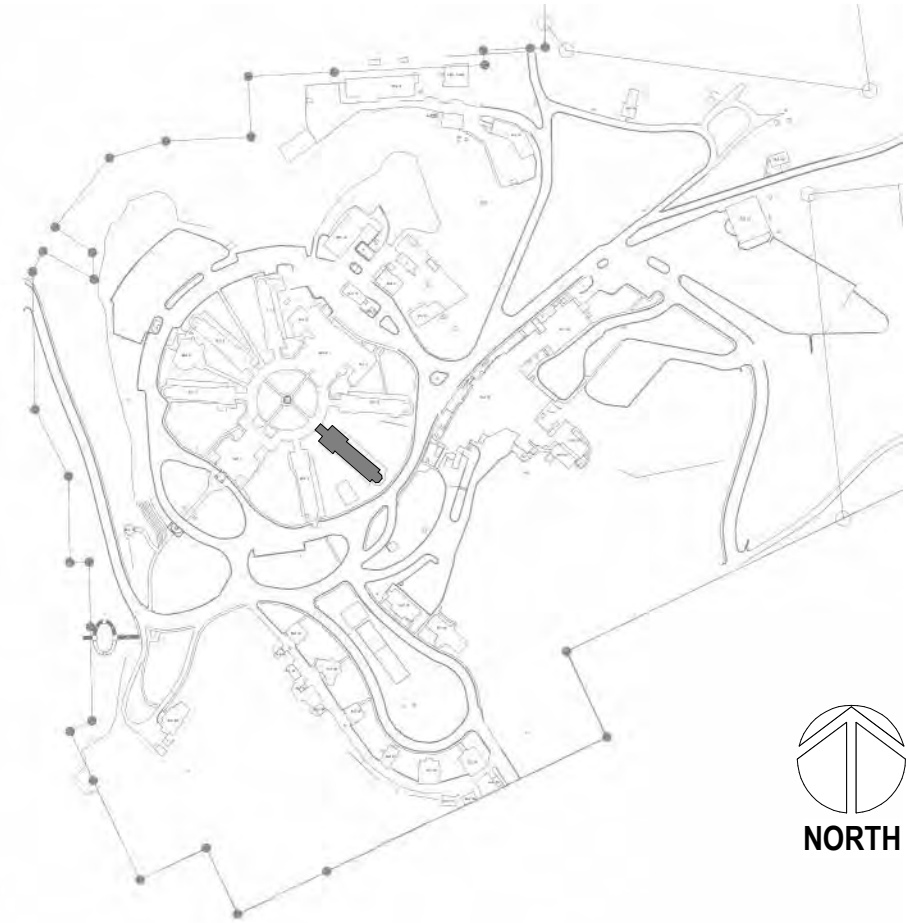
2 BUILDING 4 FIRST FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"



1 BUILDING 4 SECOND FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"



SITE LEGEND



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CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

U.S. Department  
of Veterans Affairs

DRAWING TITLE  
04-HVAC DEMOLITION FLOOR  
PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

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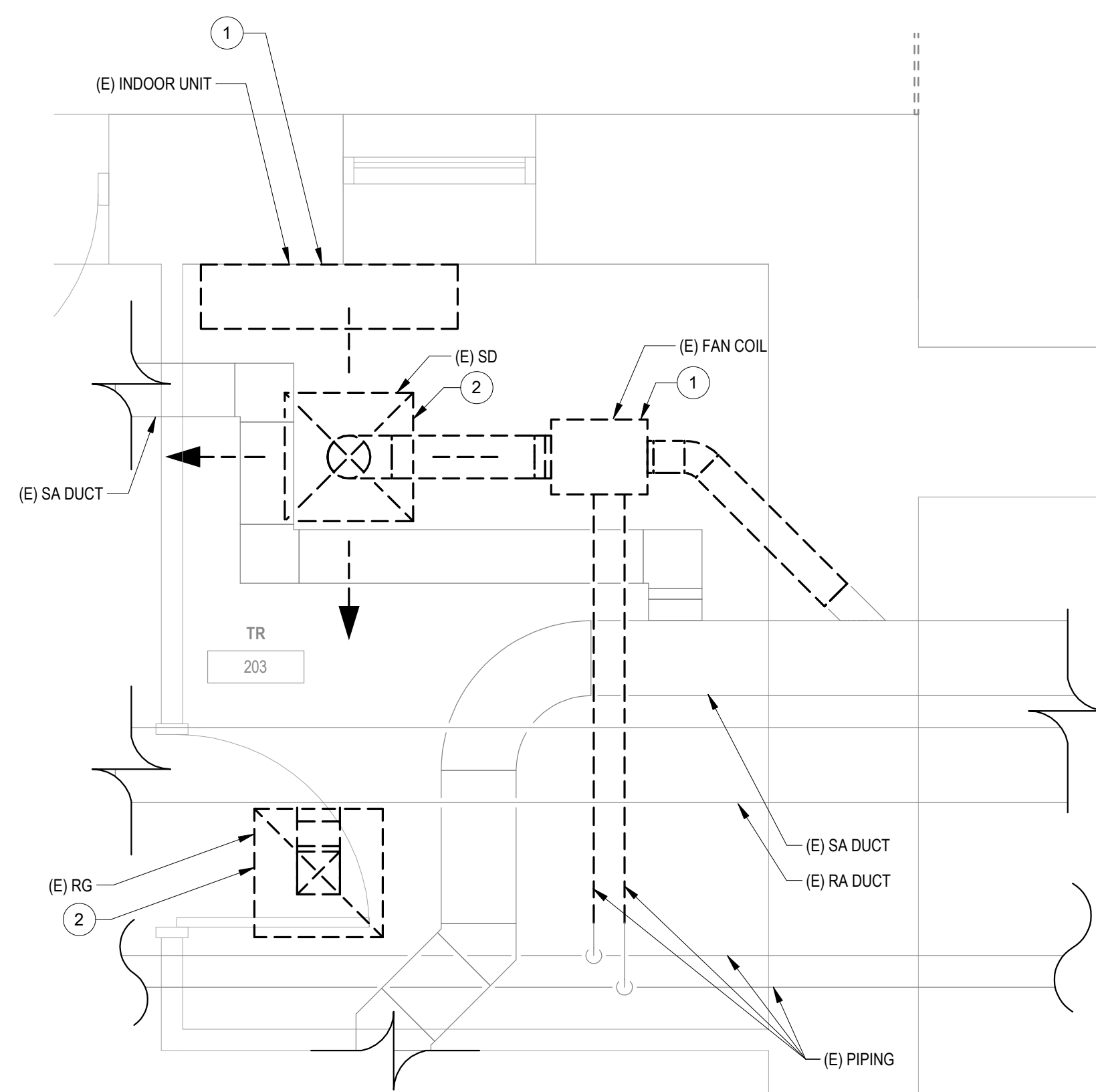
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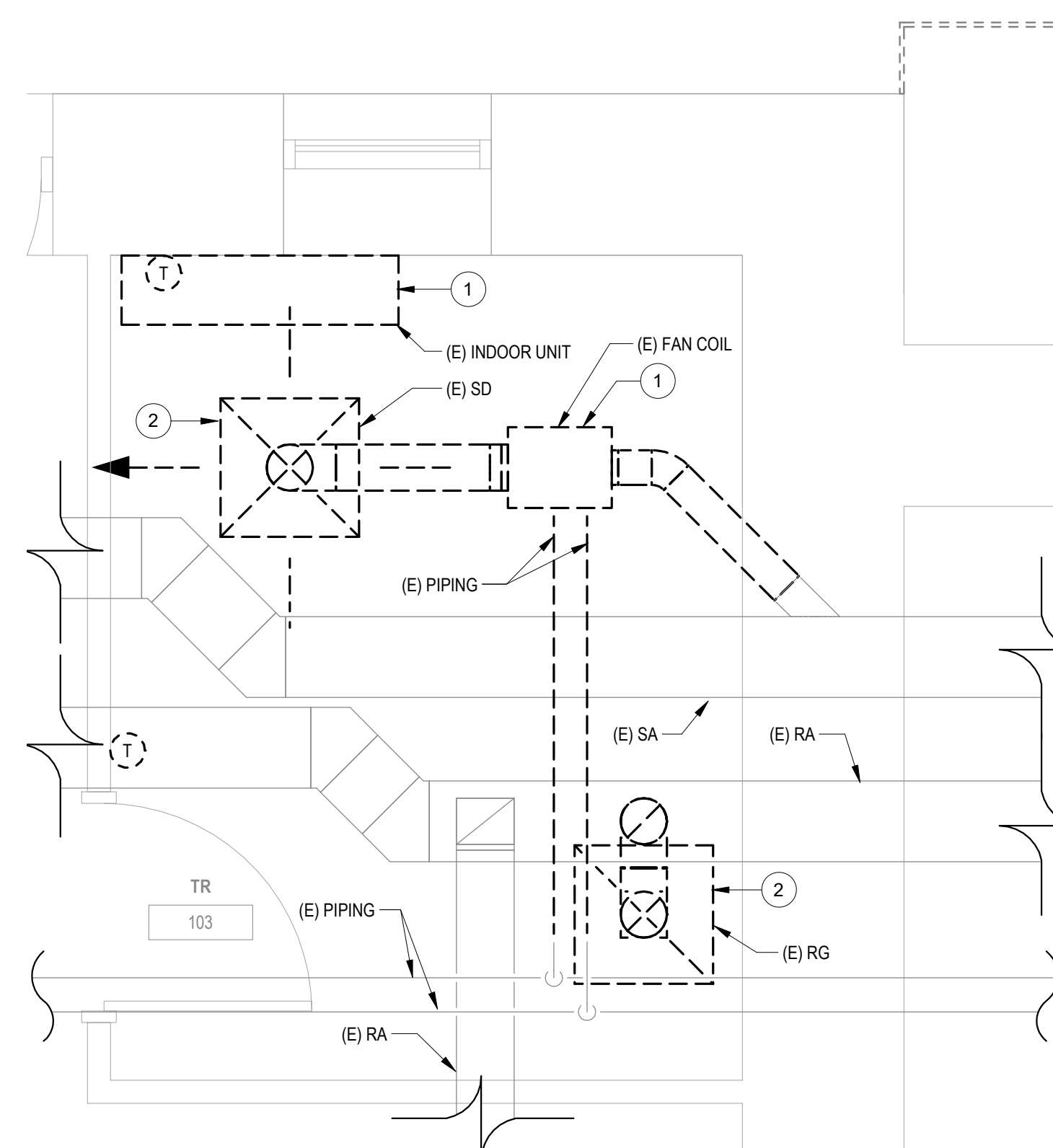
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## PLAN NOTES

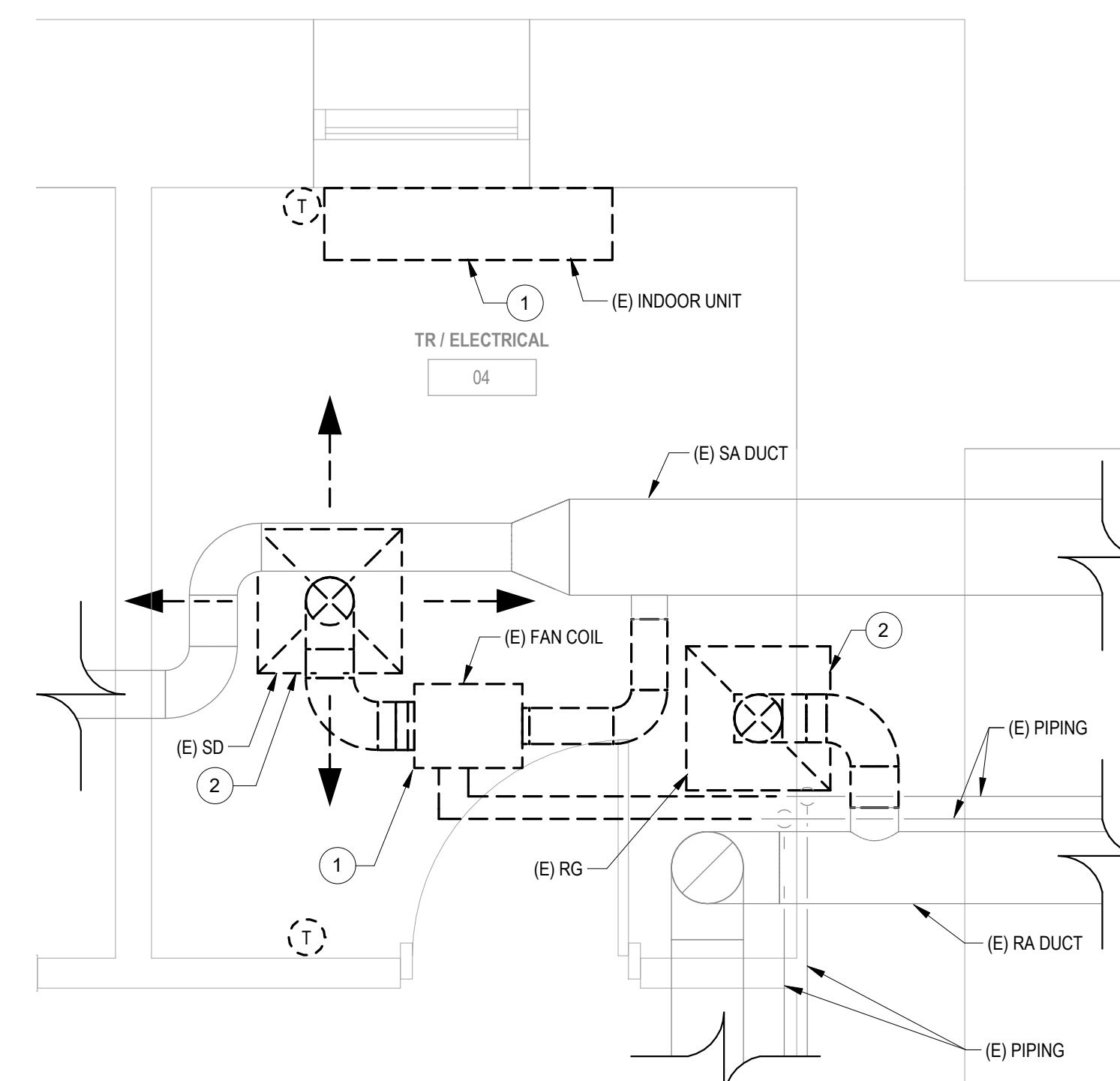
- 1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.
- 2 DEMOLISH EXISTING AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO BRANCH AND CAP.



1 ENLARGED ROOM - 203 HVAC DEMOLITION  
1/2" = 1'-0"

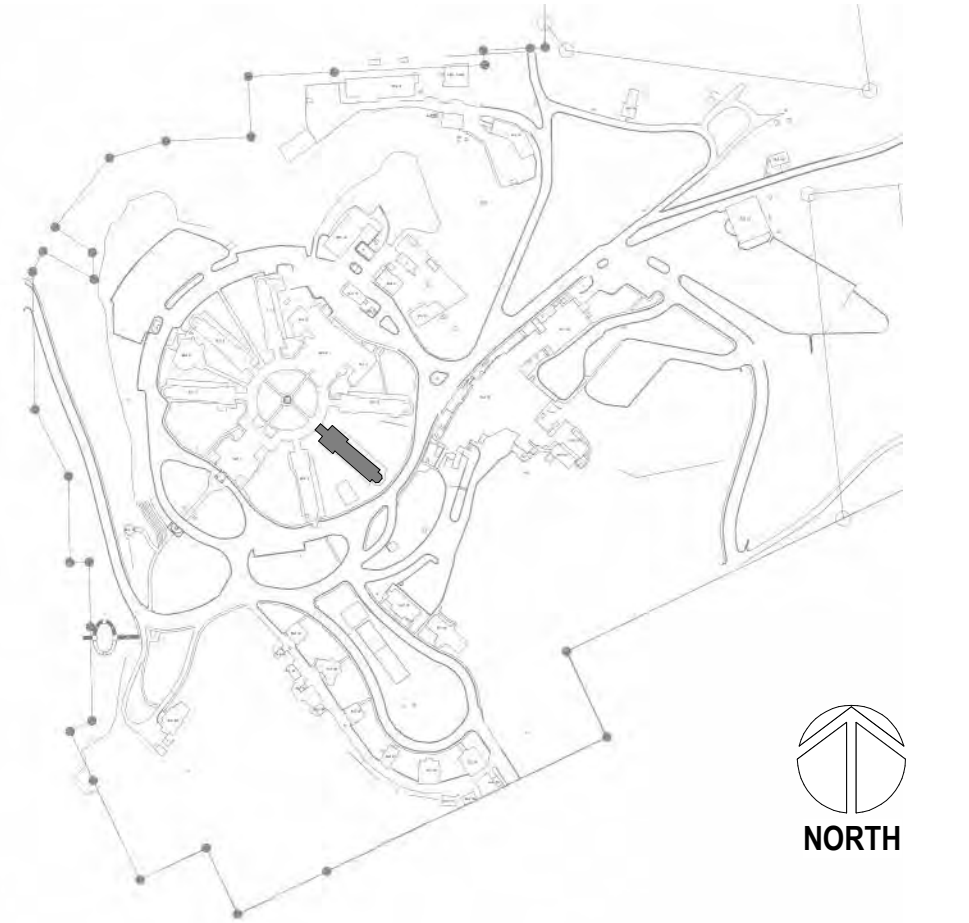


2 ENLARGED ROOM - 103 HVAC DEMOLITION  
1/2" = 1'-0"



3 ENLARGED ROOM - 04 HVAC DEMOLITION  
1/2" = 1'-0"

## SITE LEGEND


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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE

04-ENLARGED HVAC DEMOLITION  
PLANS

PHASE  
100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
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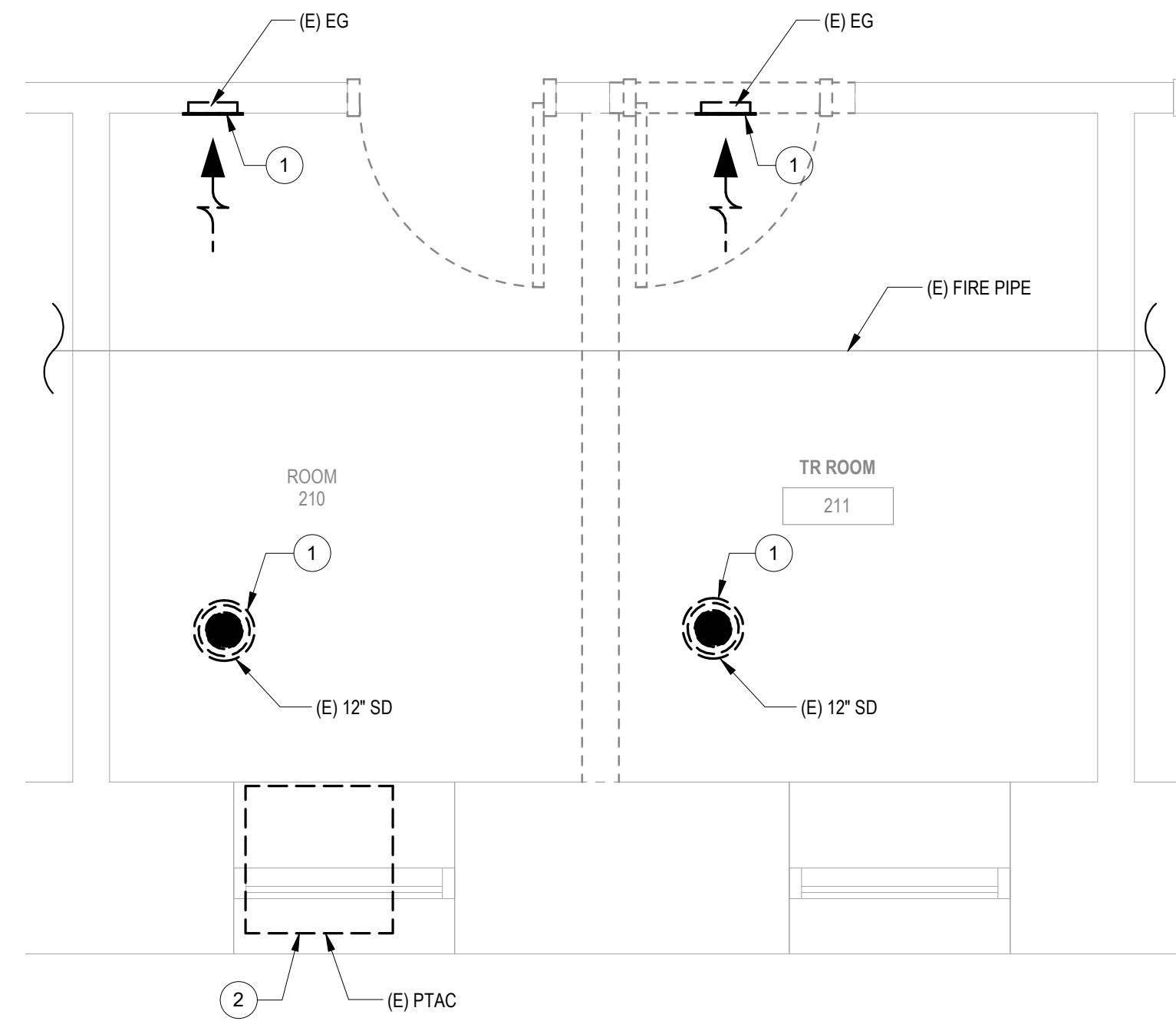
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ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 04
DRAWING NUMBER 004-MD-0B2



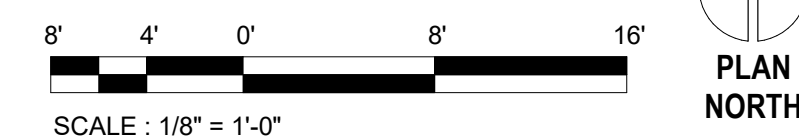
## PLAN NOTES

- 1 DEMOLISH EXISTING AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO BRANCH AND CAP.
- 2 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.

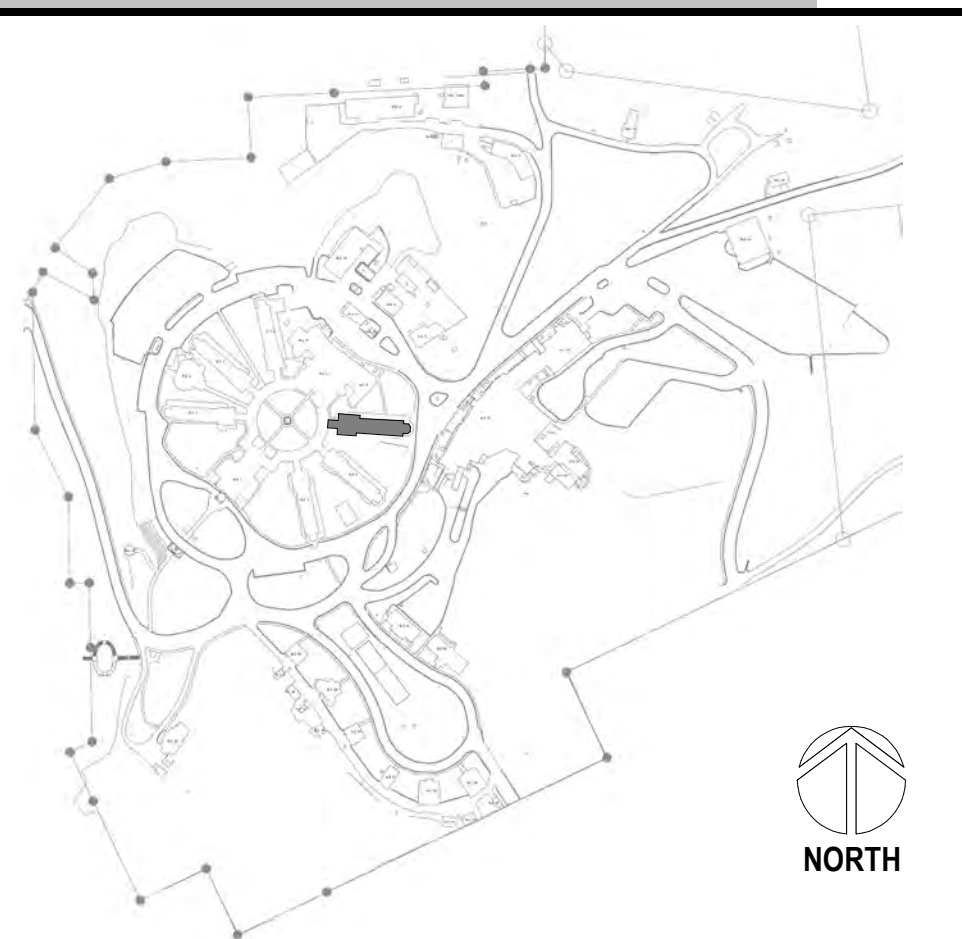


2 ENLARGED ROOM - 210 AND 211 HVAC DEMOLITION  
1/2" = 1'-0"

1 BUILDING 5 SECOND FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"



## SITE LEGEND

[illegible]

**CONSULTANT**

A/E  
GDM  
1584 McNeil St, Suite 200  
DuPont, WA 98327  
360.318.7095  
JESSE BARKSDALE


The logo for GDM Architects + Engineers is contained within a black rectangular box. It features the letters "GDM" in a large, white, serif font. Below "GDM", the words "ARCHITECTS + ENGINEERS" are written in a smaller, white, sans-serif font. The entire logo is centered within the box.

**ARCHITECT/ENGINEER OF RECORD**

ARCHITECT

GDM  
 1000 W STEUBEN ST. UNIT 3  
 BINGEN, WA 98605  
 541.436.4723  
 ADAM GODDIN, PE

**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE

05-SECOND FLOOR HVAC  
DEMOLITION PLANS

APPROVED:	
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PHASE
100% CD FINAL SOLUTION

FLS	
FULLY SPRINKLERED	

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

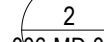
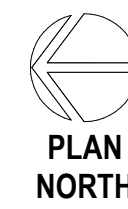
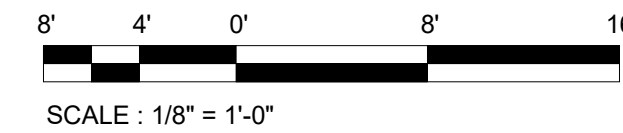
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
05

DRAWING NUMBER  
005-MD-021

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.


$$1/2'' = 1'-0''$$
$$1/2'' = 1'-0''$$

$$1/8^* = 1^*-0$$


## Revisions

Date: \_\_\_\_\_

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ARCHITECTS • ENGINEERS

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**VA** U.S. Department  
of Veterans Affairs

**APPROVED:**

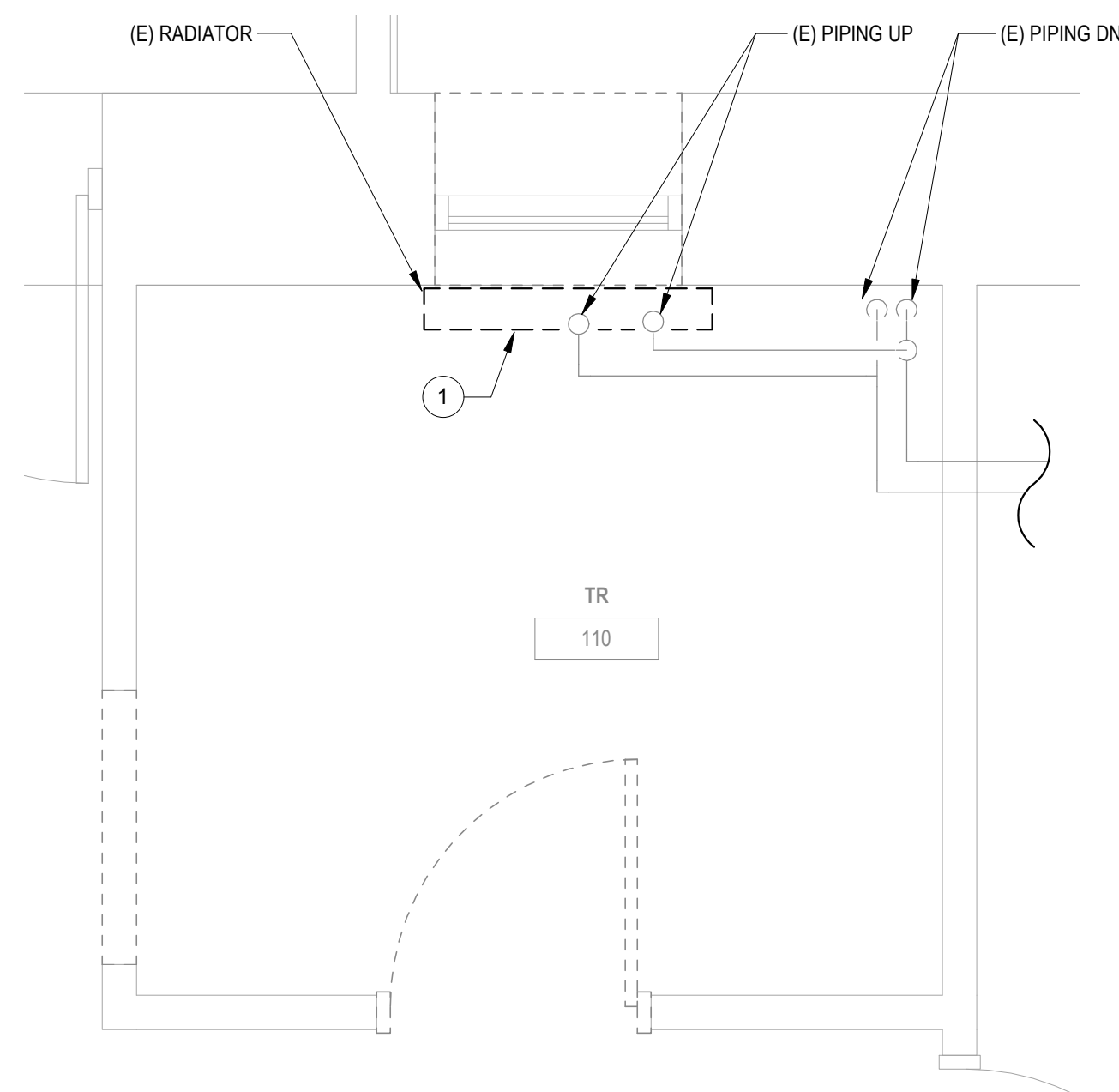
DRAWING NUMBER

**006-MD-011**



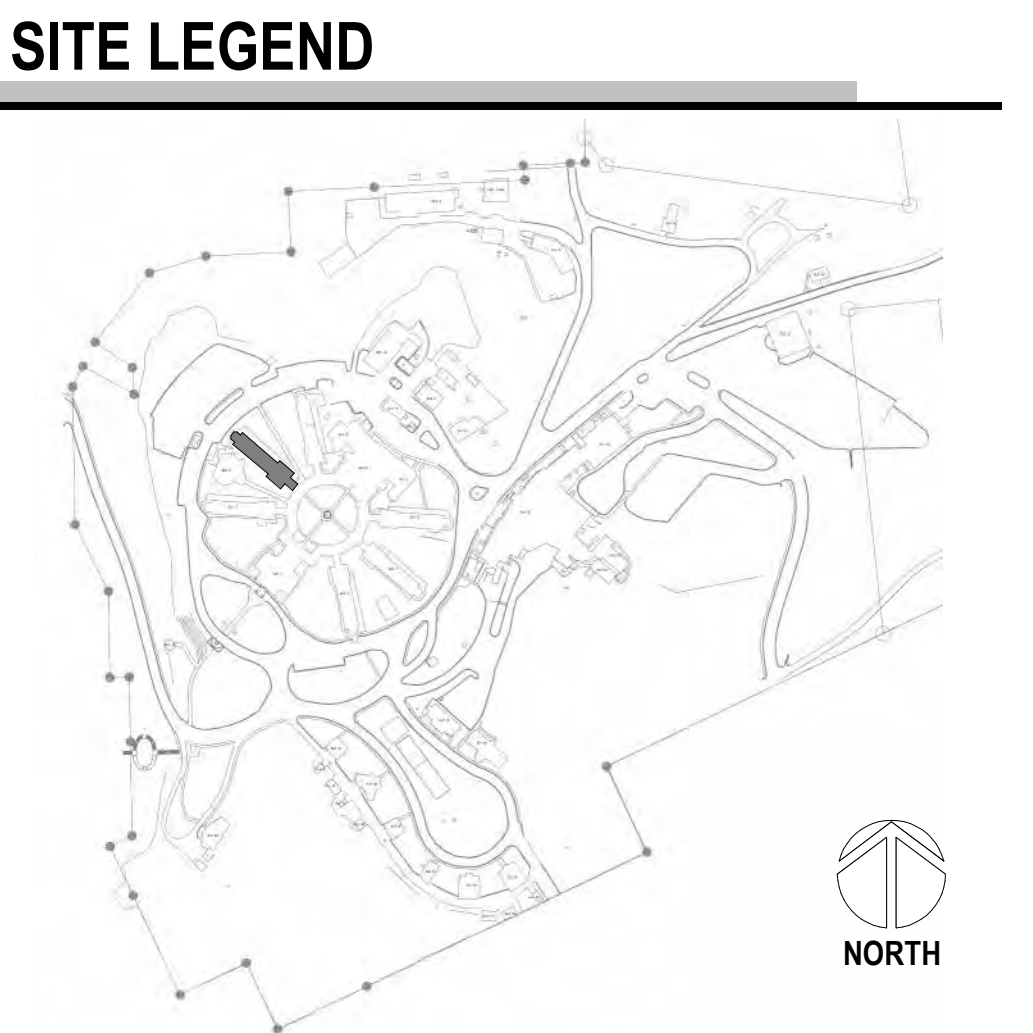
## PLAN NOTES

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN  
BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST  
CONTROL PANEL OR JUNCTION BOX.



2 ENLARGED ROOM - 110 HVAC DEMOLITION  
1/2" = 1'-0"

1 BUILDING 7 FIRST FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"

[illegible]

**CONSULTANT**

A/E  
GDM  
1584 McNeil St, Suite 200  
DuPont, WA 98327  
360.318.7095  
JESSE BARKSDALE

**ARCHITECT/ENGINEER OF RECORD**

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BINGEN, WA 98605


541.436.4723

ADAM GODDIN, PE

**GDM**

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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE	
07-FIRST FLOOR HVAC DEMOLITION PLANS	
APPROVED:	

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

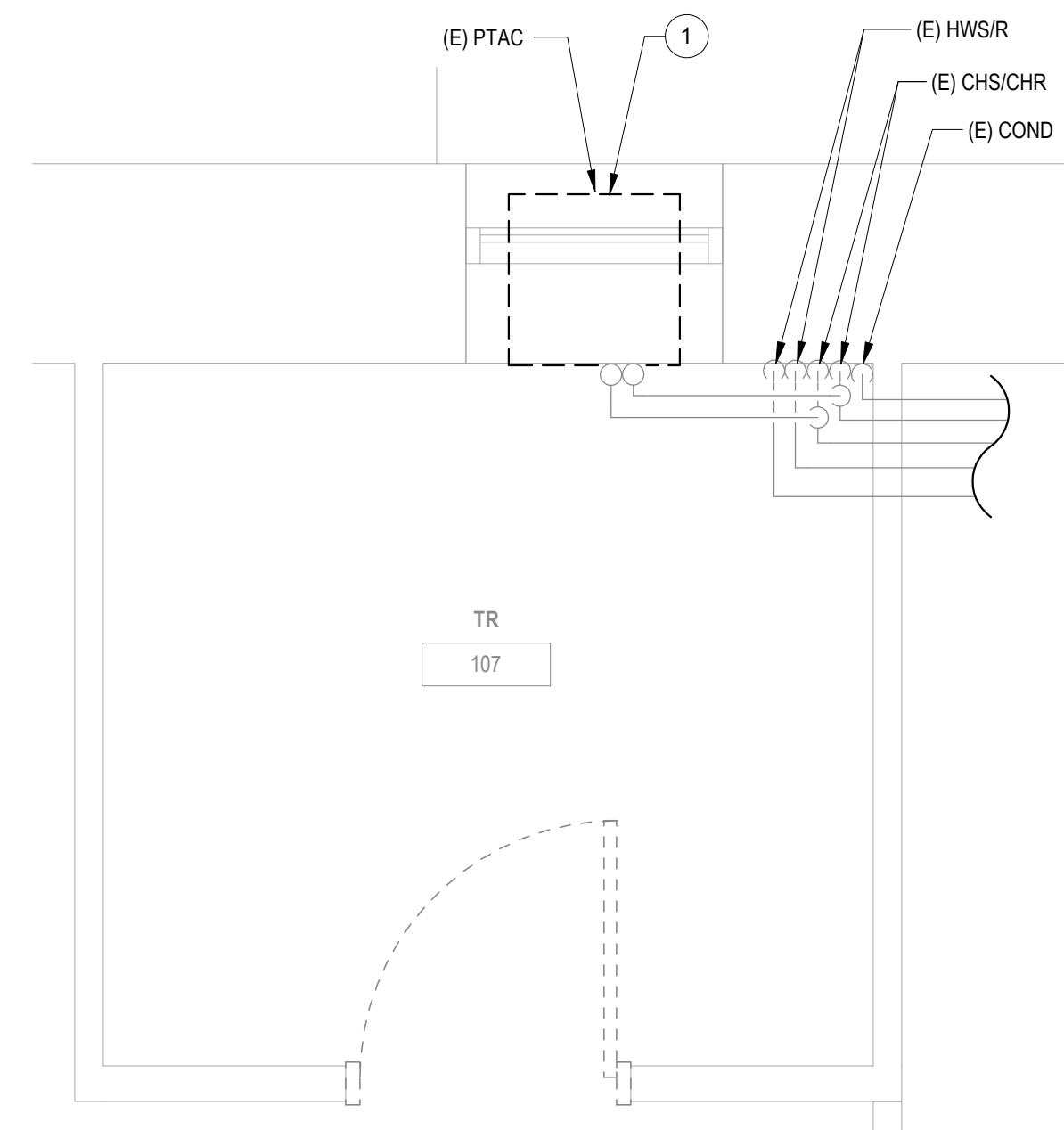
PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
07

DRAWING NUMBER  
007-MD-011

## PLAN NOTES

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.



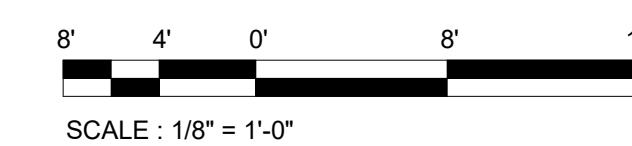
2 ENLARGED ROOM - 107 HVAC DEMOLITION

$$1/2^8 = 1'-0''$$

1 BUILDING 8 FIRST FLOOR DEMOLITION PLAN - HVAC

---

1/8" = 1'-0"

[illegible]

**CONSULTANT**

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**GDM**  
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DuPont, WA 98327  
360.318.7095  
**JESSE BARKSDALE**


**ARCHITECT/ENGINEER OF RECORD**

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541.436.4723  
ADAM GODDIN, PE

**GDM**  
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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE

08-FIRST FLOOR HVAC DEMOLITION  
PLANS

APPROVED:	
-----------	--

PHASE

100% CD FINAL SOLUTION

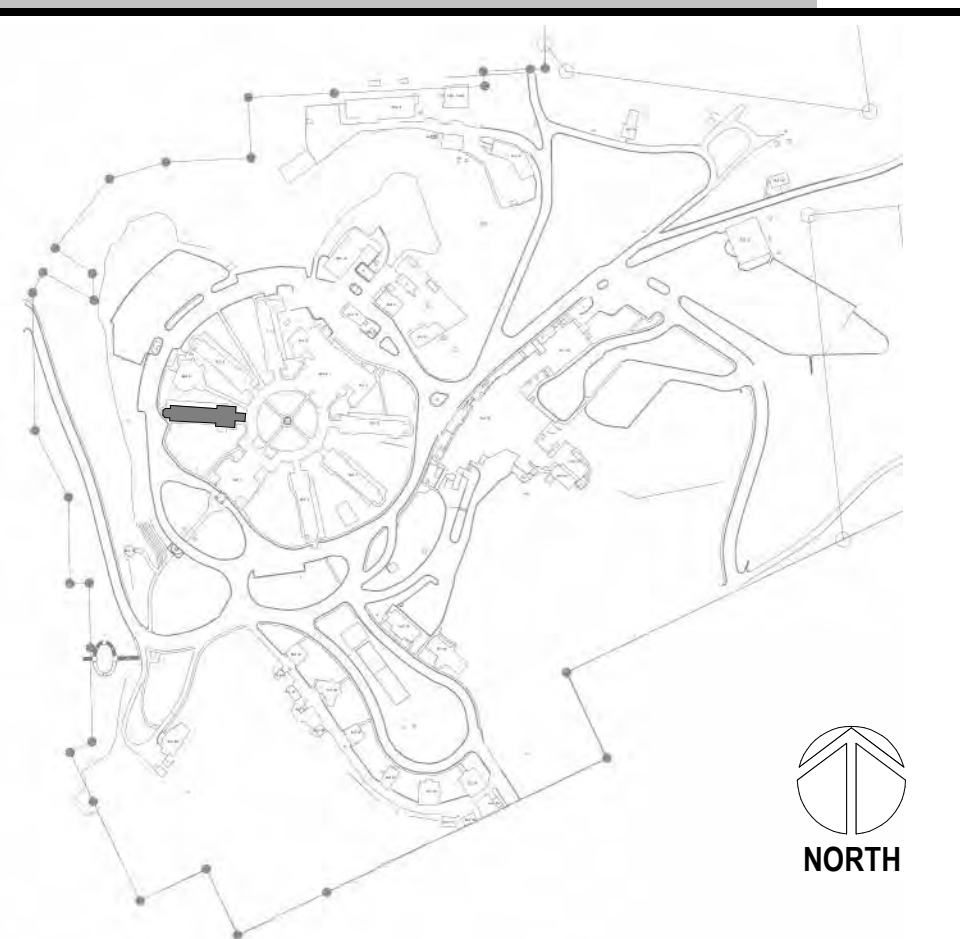
FLS	
FULLY SPRINKLERED	

PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
---------------	------------------------------

LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	

PROJECT NUMBER 568A4-21-702	BUILDING NUMBER 08	DRAWING NUMBER <b>008-MD-011</b>

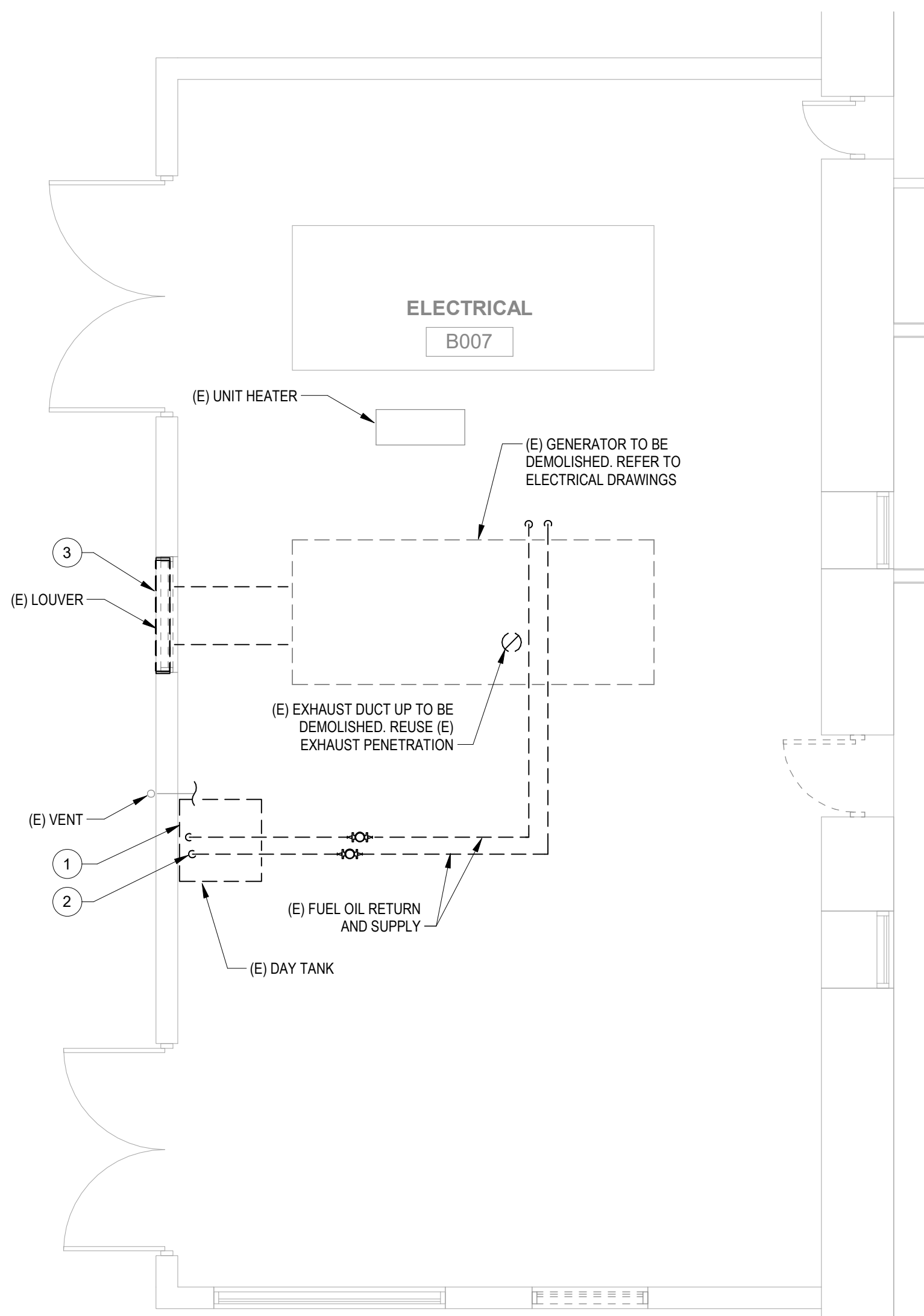
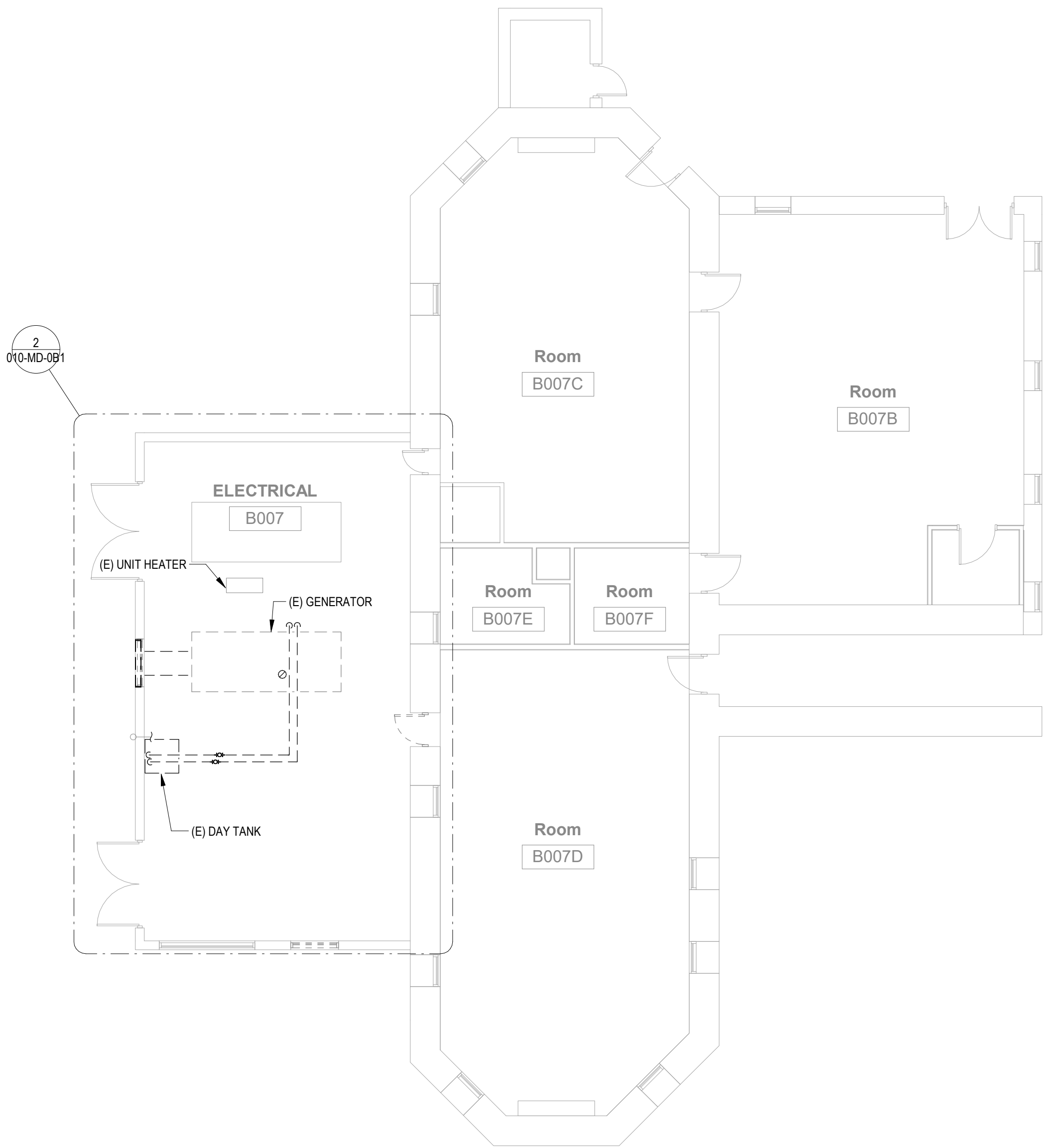
## SITE LEGEND



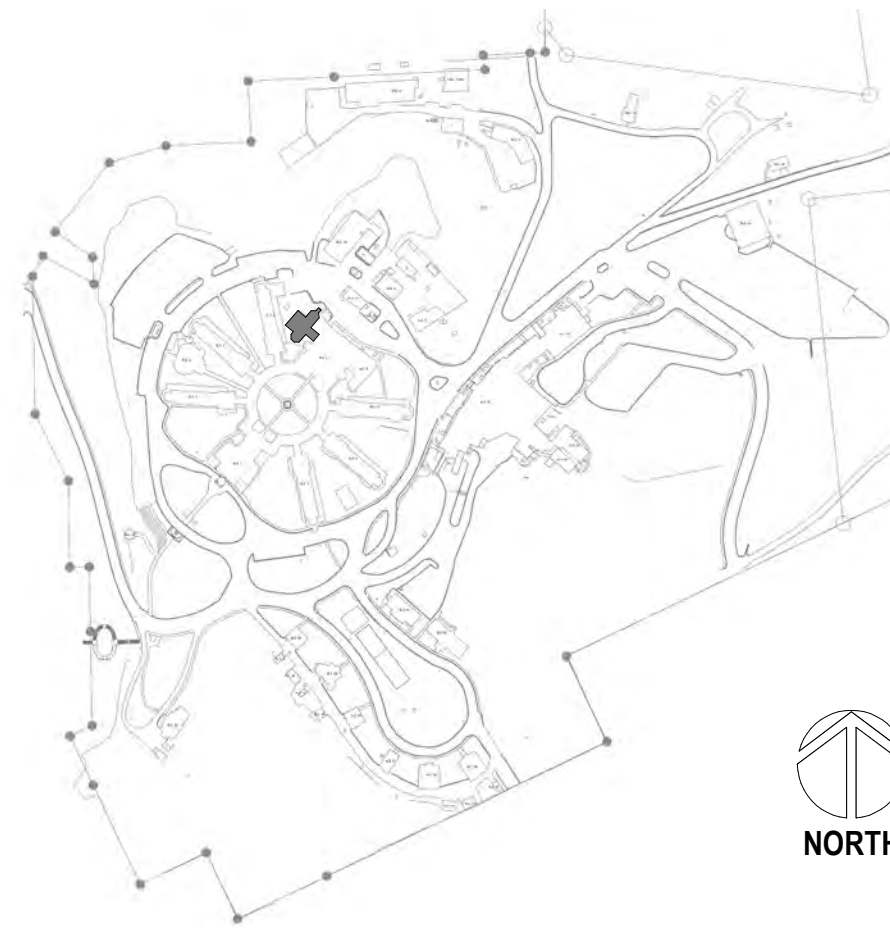


PLAN NOTES

- 1 CONTRACTOR TO DEMOLISH AND REMOVE ALL VENTILATION FROM DAY TANK THROUGH WALL TO CAP.  
2 CONTRACTOR TO DEMOLISH AND REMOVE DAY TANK, PIPING AND FITTINGS FROM WALL TO GENERATOR.  
3 CONTRACTOR TO DEMOLISH LOUVER AND INFILL.

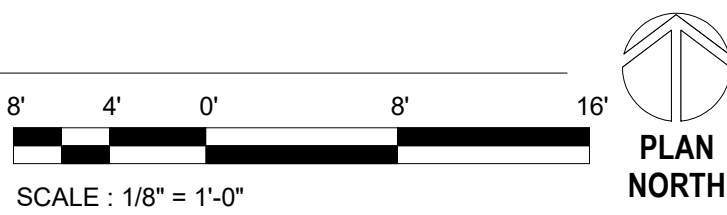


SITE LEGEND



1 BUILDING 10 BASEMENT DEMOLITION PLAN - HVAC  
1/8" = 1'-0"

2 ENLARGED PLAN ELECTRICAL ROOM DEMOLITION PLAN  
1/4" = 1'-0"



		<b>CONSULTANT</b>		<b>ARCHITECT/ENGINEER OF RECORD</b>		<b>STAMP</b>	<b>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</b>		DRAWING TITLE 10-BASEMENT HVAC DEMOLITION PLANS	PHASE 100% CD FINAL SOLUTION	PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	PROJECT NUMBER 568A4-21-702		
		A/E GDM 1584 McNeil St, Suite 200 DuPont, WA 98327 360.318.7095 JESSE BARKSDALE		<div>GDM ARCHITECTS + ENGINEERS</div>		<div>GDM ARCHITECTS + ENGINEERS</div>	U.S. Department of Veterans Affairs		APPROVED:	FLS FULLY SPRINKLERED	LOCATION HOT SPRINGS, SOUTH DAKOTA	BUILDING NUMBER 10		
Revisions:		Date:									ISSUE DATE 02/23/2022	CHECKED BY KHT	DRAWN BY KBT	DRAWING NUMBER 010-MD-0B1

A

B

C

D

E

F

2/18/2022 1:43:45 PM

C:\Users\kara\Documents\2-017 va hot springs - bldg 11 - main 20\_kupper\A0ES.rvt

A

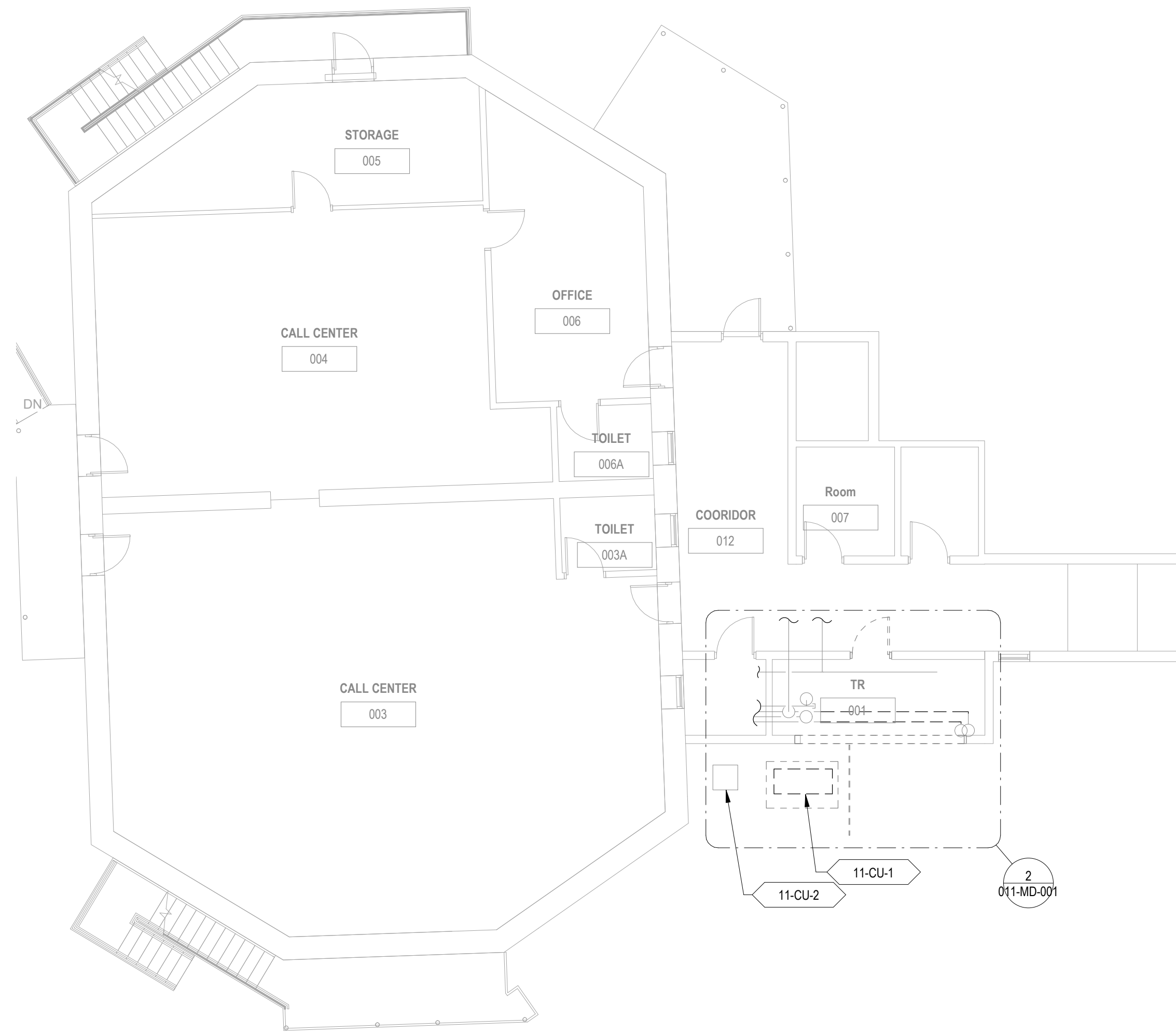
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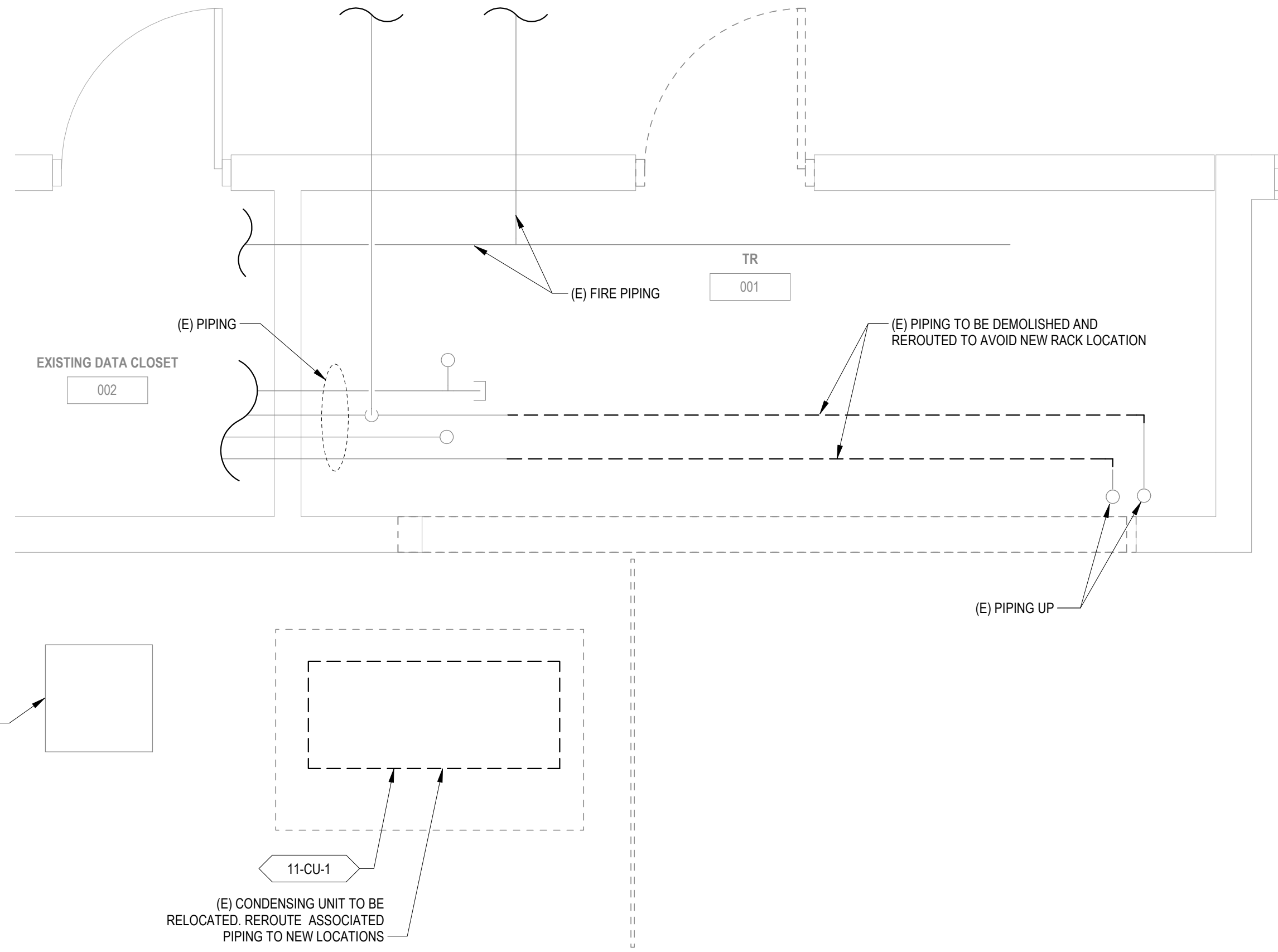
E

F



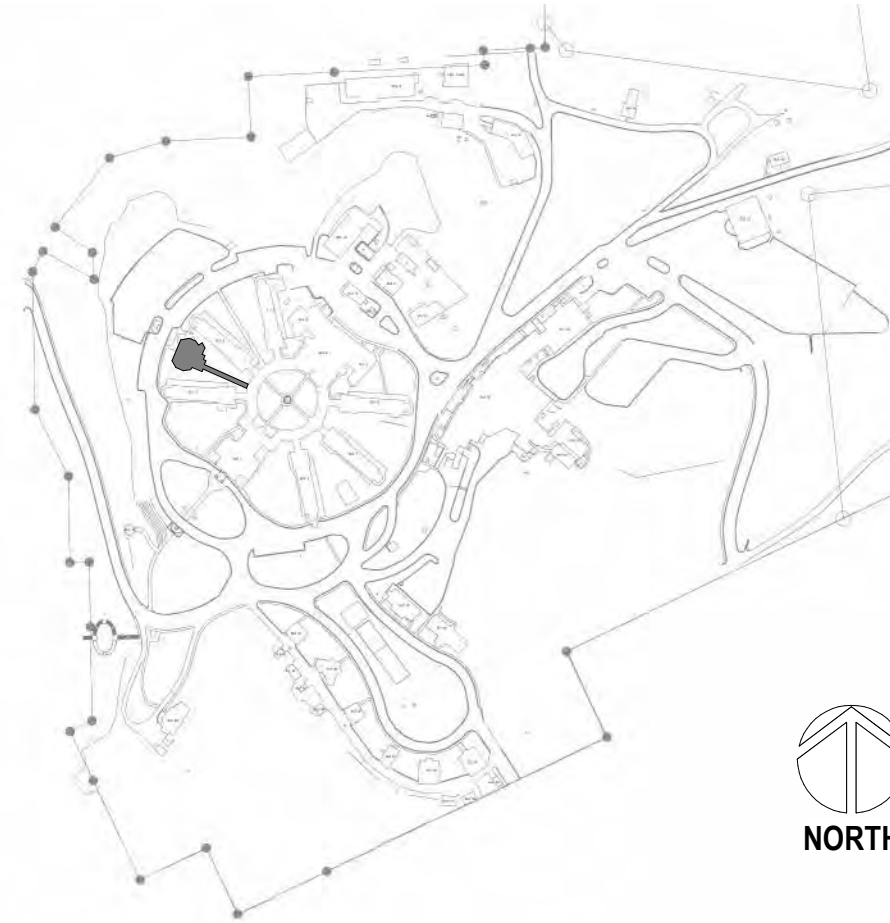
1 BUILDING 11 GROUND FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"

SCALE: 1/8" = 1'-0"  
16' 8' 0' 4' 8'  
PLAN NORTH



2 ENLARGED ROOM - 001 HVAC DEMOLITION  
1/2" = 1'-0"

SITE LEGEND



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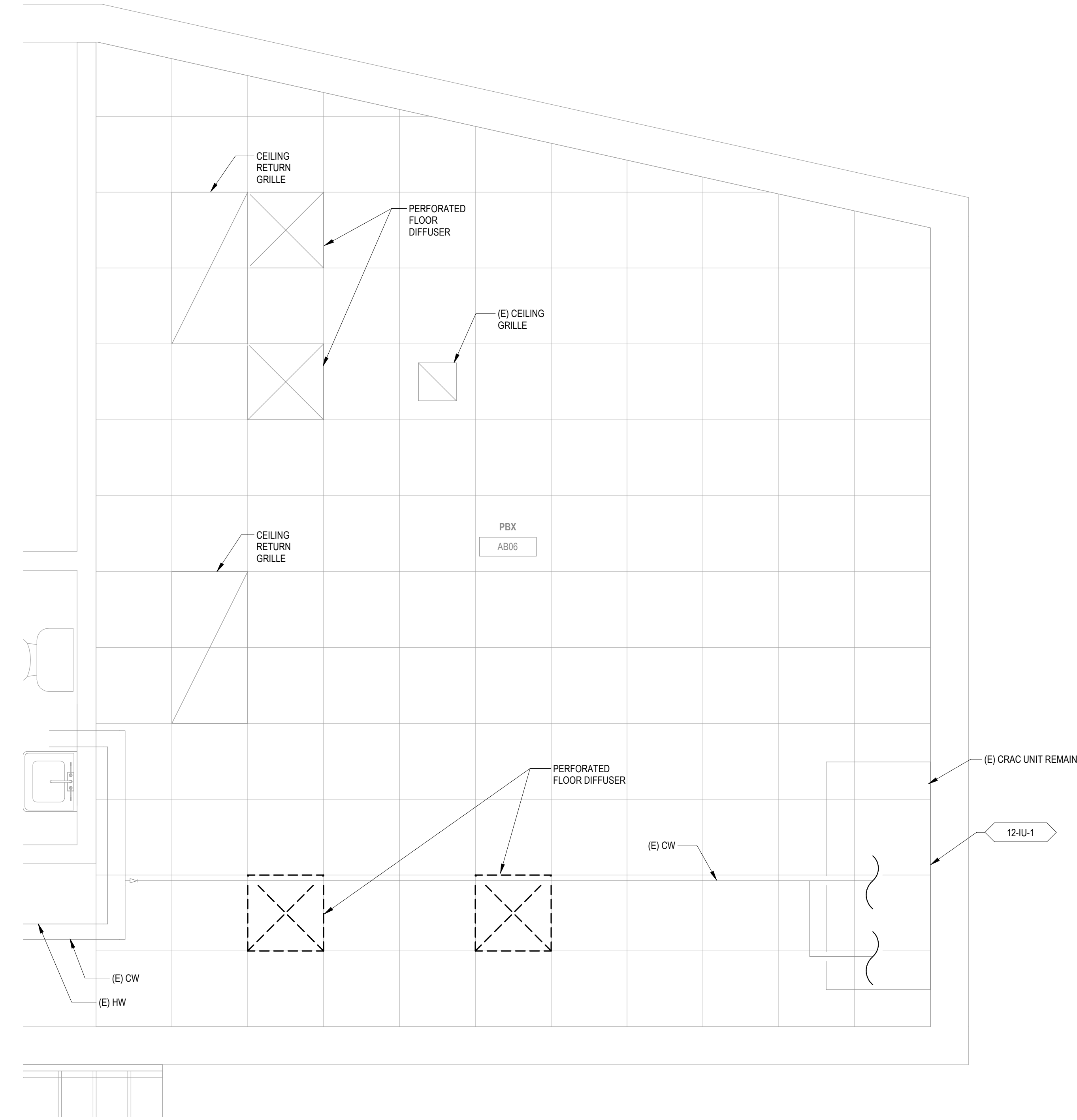
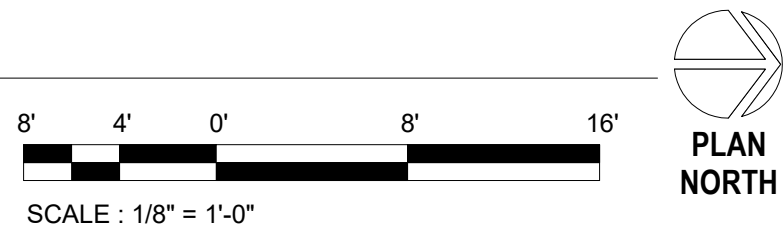
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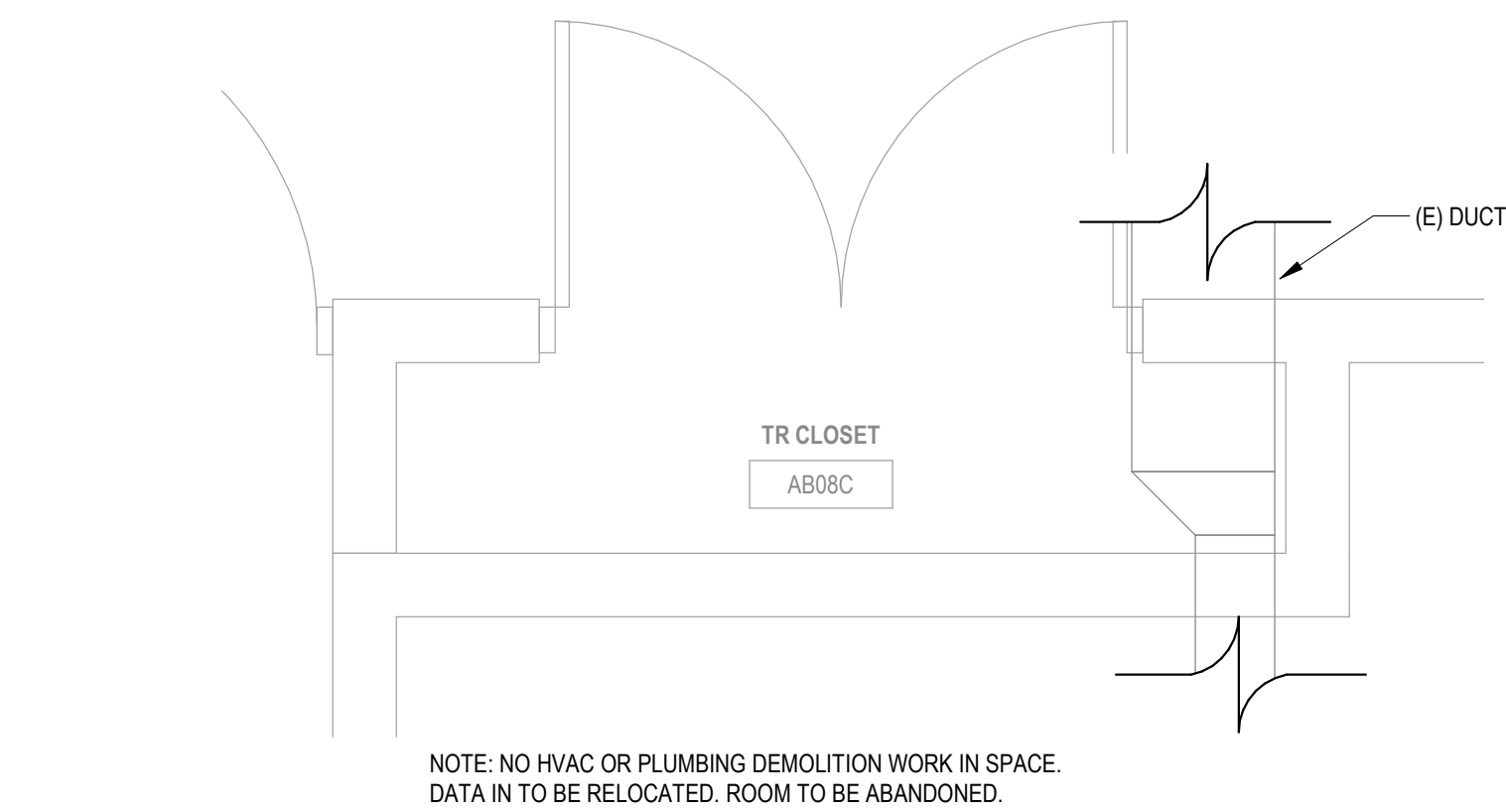
C:\Users\kara\Documents\2-017 va hot springs - bldg 12 - mch 20\_hopper\ADES-vf



1 BUILDING 12 BASEMENT HVAC DEMOLITION PLAN - SECTOR A  
1/8" = 1'-0"

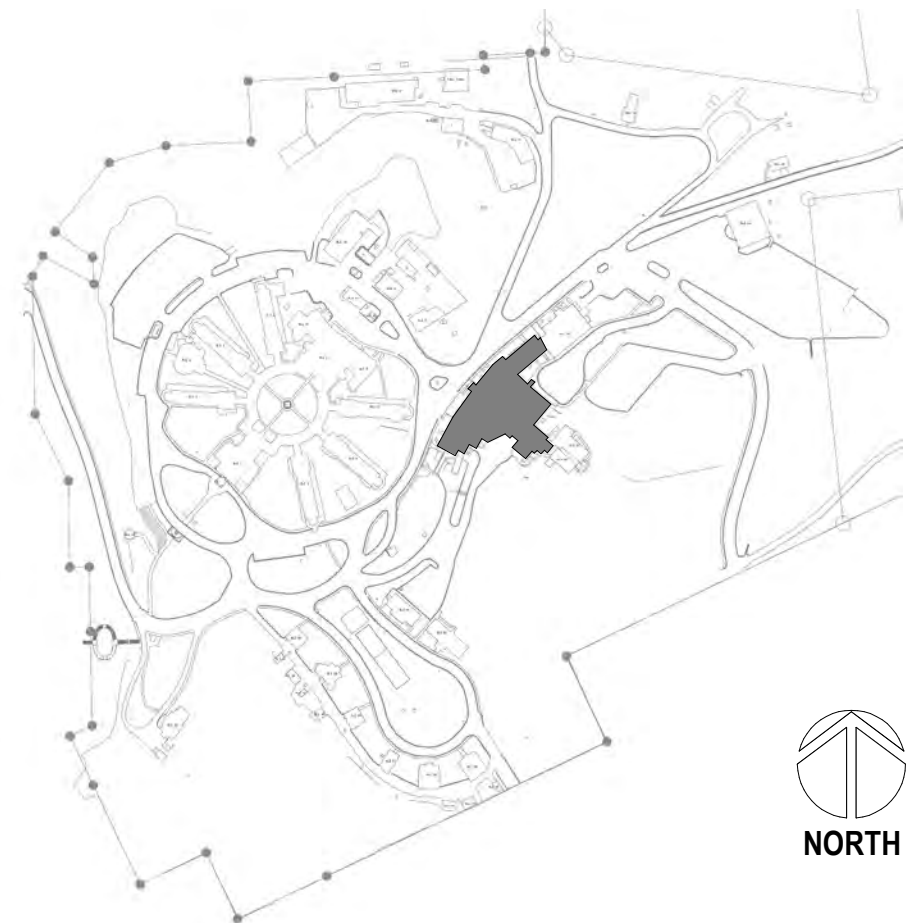


2 ENLARGED ROOM - AB06 HVAC DEMOLITION  
1/2" = 1'-0"



3 ENLARGED ROOM - AB08C HVAC DEMOLITION  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

**CONSULTANT**

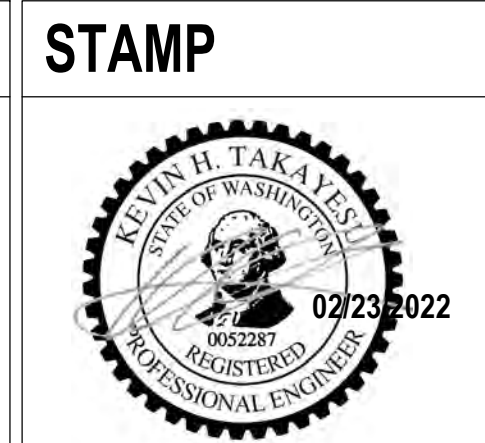
A/E  
GDM  
1584 McNeil St, Suite 200  
DuPont, WA 98327  
360.318.7095  
JESSE BARKSDALE

**GDM**  
ARCHITECTS-ENGINEERS

**ARCHITECT/ENGINEER OF RECORD**

ARCHITECT  
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BINGEN, WA 98605  
541.436.4723  
ADAM GODDIN, PE

**GDM**  
ARCHITECTS-ENGINEERS



**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

U.S. Department of Veterans Affairs

DRAWING TITLE  
12-BASEMENT HVAC DEMOLITION PLANS - SECTOR A

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

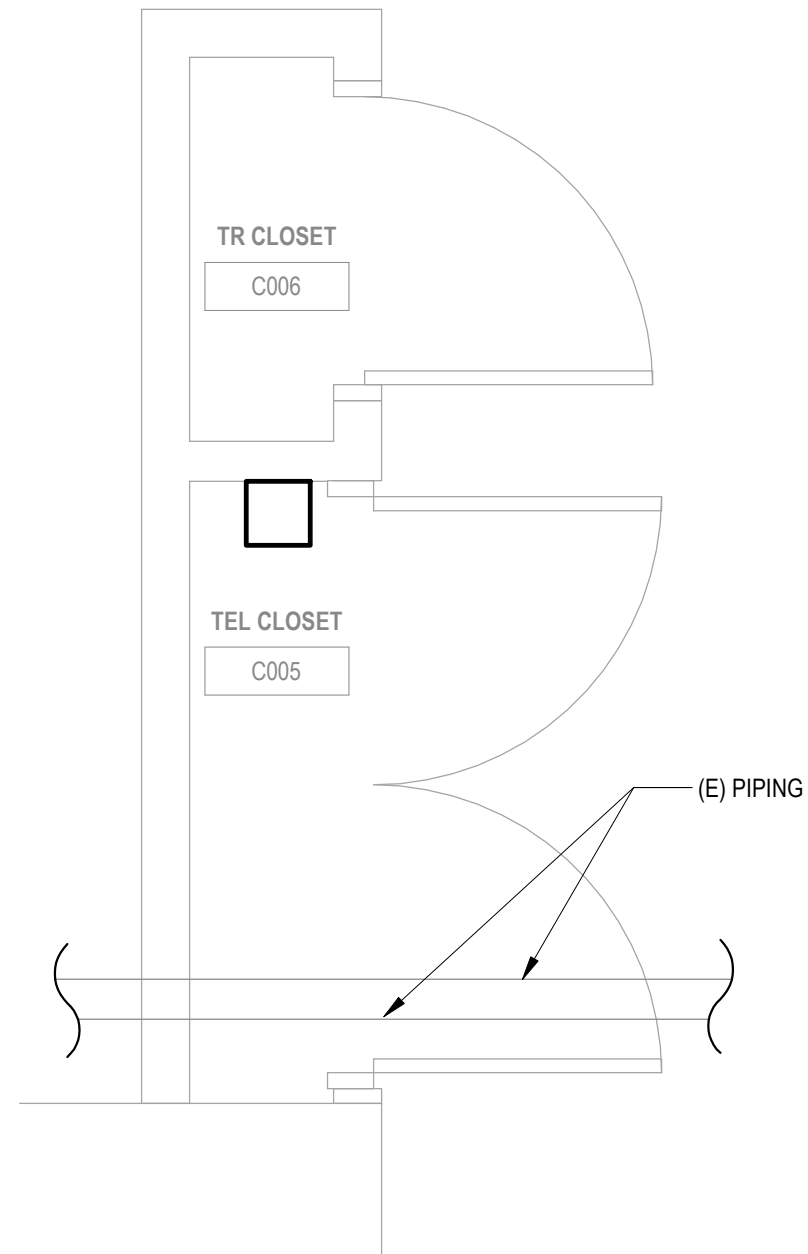
PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
12

DRAWING NUMBER  
012-MD-0B1

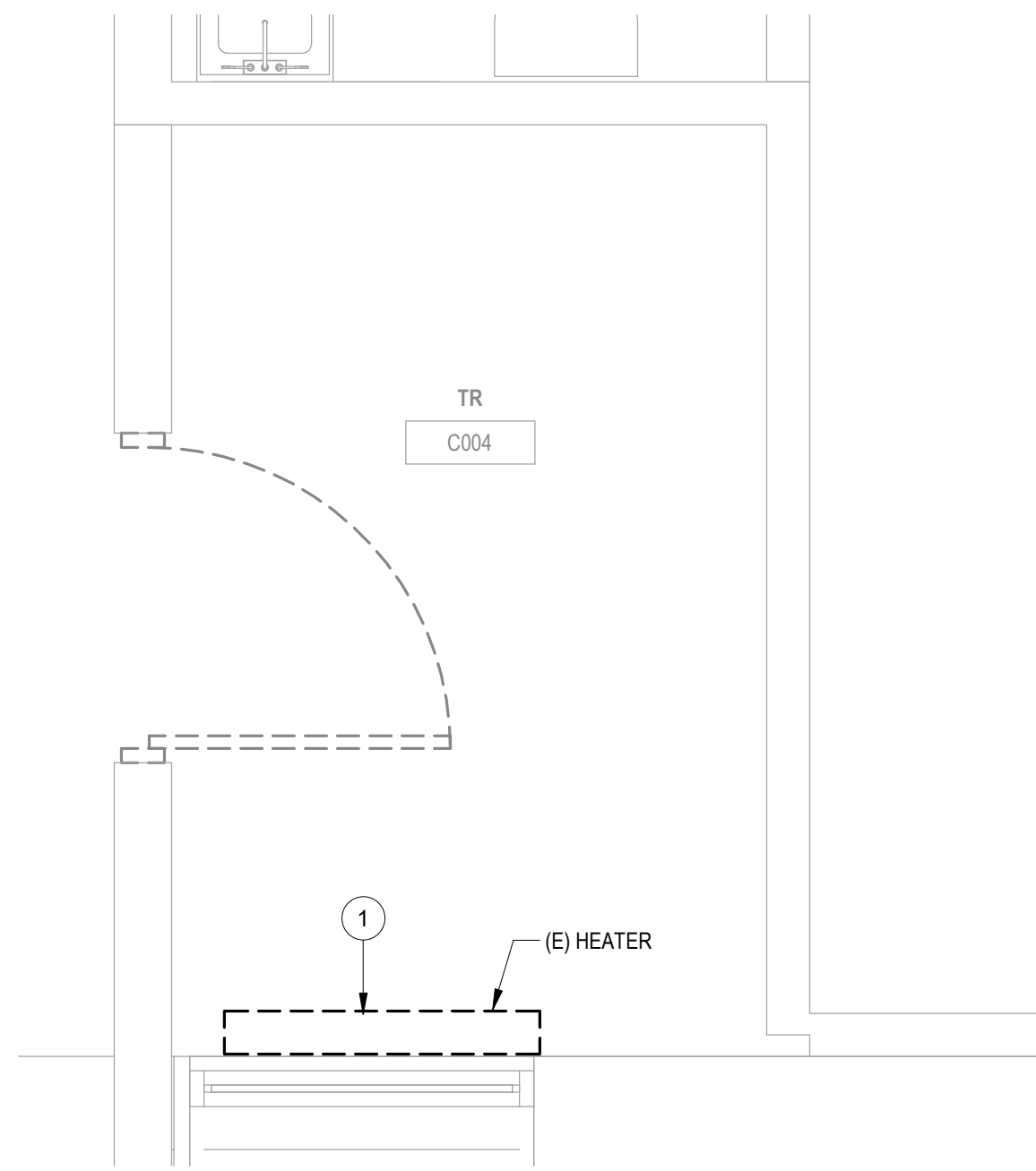
## PLAN NOTES

- 1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.
- 2 DEMOLISH EXISTING AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO BRANCH AND CAP.



NOTE: NO HVAC OR PLUMBING DEMOLITION WORK IN SPACE.  
DATA IN TO BE RELOCATED. ROOM TO BE ABANDONED.

2 ENLARGED ROOM - C006 HVAC DEMOLITION  
1/2" = 1'-0"



NOTE: NO HVAC OR PLUMBING DEMOLITION WORK IN SPACE.  
DATA IN TO BE RELOCATED. ROOM TO BE ABANDONED.

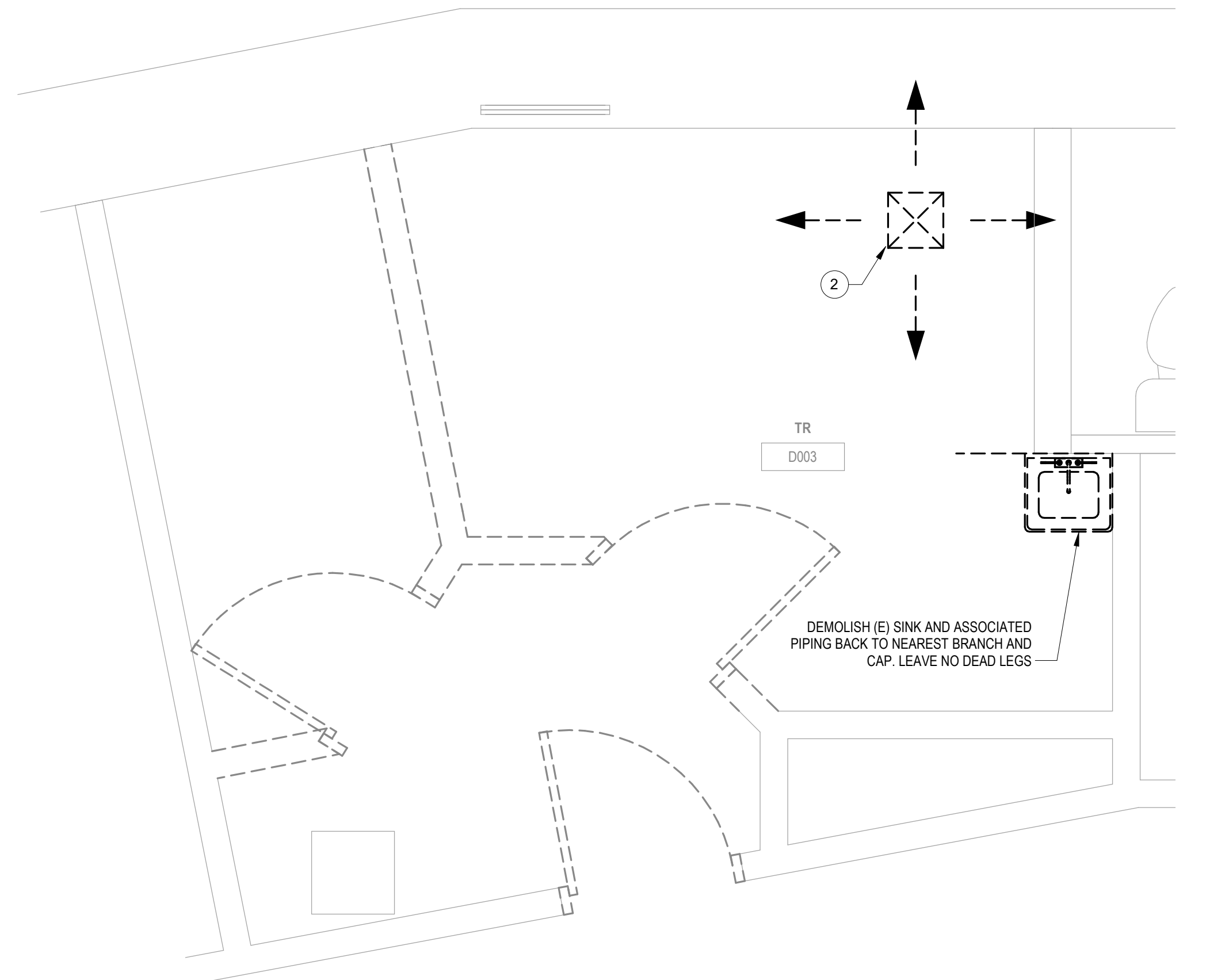
3 ENLARGED ROOM - C004 HVAC DEMOLITION  
1/2" = 1'-0"

NOTE: NO HVAC OR PLUMBING DEMOLITION WORK IN SPACE.  
DATA IN TO BE RELOCATED. ROOM TO BE ABANDONED.

4 ENLARGED ROOM - D011 HVAC DEMOLITION  
1/2" = 1'-0"

NOTE: NO HVAC OR PLUMBING DEMOLITION WORK IN SPACE.  
DATA IN TO BE RELOCATED. ROOM TO BE ABANDONED.

5 ENLARGED ROOM - B001A HVAC DEMOLITION  
1/2" = 1'-0"



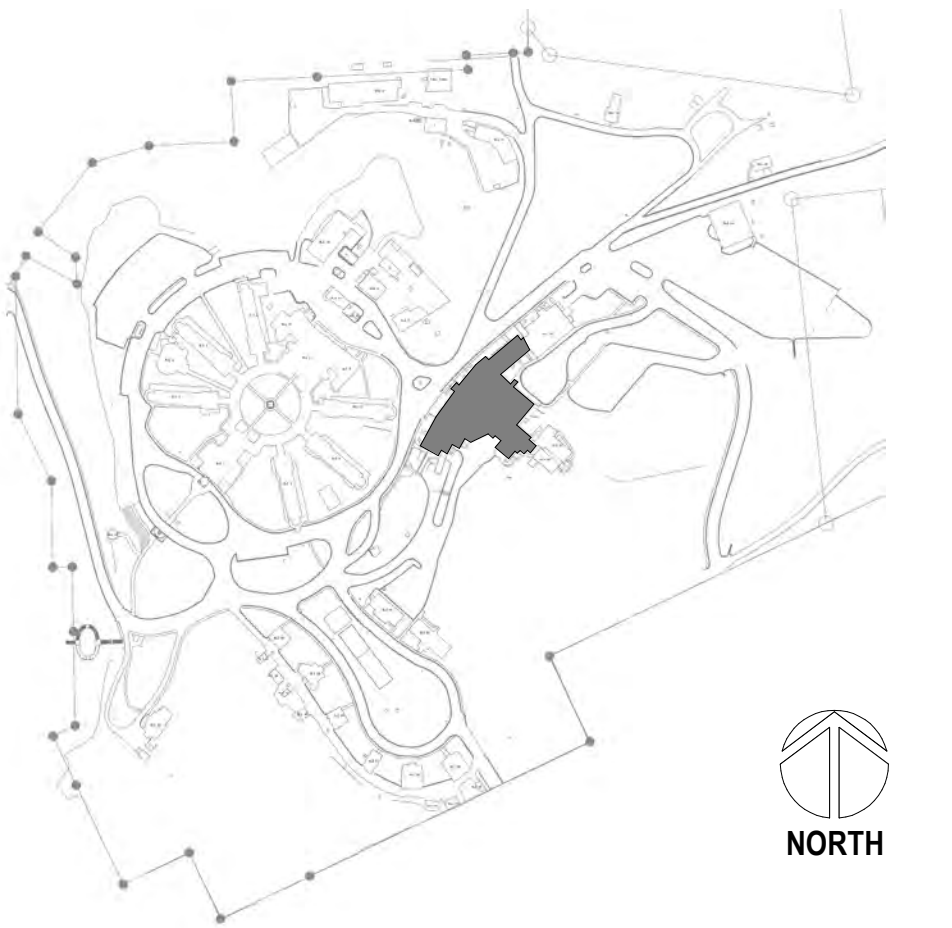
2

TR

## PIPING E

6 ENLARGED ROOM - D003 HVAC DEMOLITION  
1/2" = 1'-0"

## SITE LEGEND



ORTH

1 BUILDING 12 GROUND FLOOR HVAC DEMOLITION PLAN - SECTOR C/D  
1/8" = 1'-0"

[illegible]

## CONSULTANT

**A/E**  
**GDM**  
**1584 McNeil St, Suite 200**  
**DuPont, WA 98327**  
**360.318.7095**  
**JESSE BARKSDALE**



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**ARCHITECT**  
GDM  
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ADAM GODDIN, PE



**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE

12-GROUND FLOOR HVAC  
DEMOLITION PLANS - SECTOR C/D

**APPROVED:**

PHASE
100% CD FINAL SOLUTION

FLS

FULLY SPRINKLERED

PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
---------------	------------------------------

LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER

**DRAWING NUMBER**

**012-MD-001**



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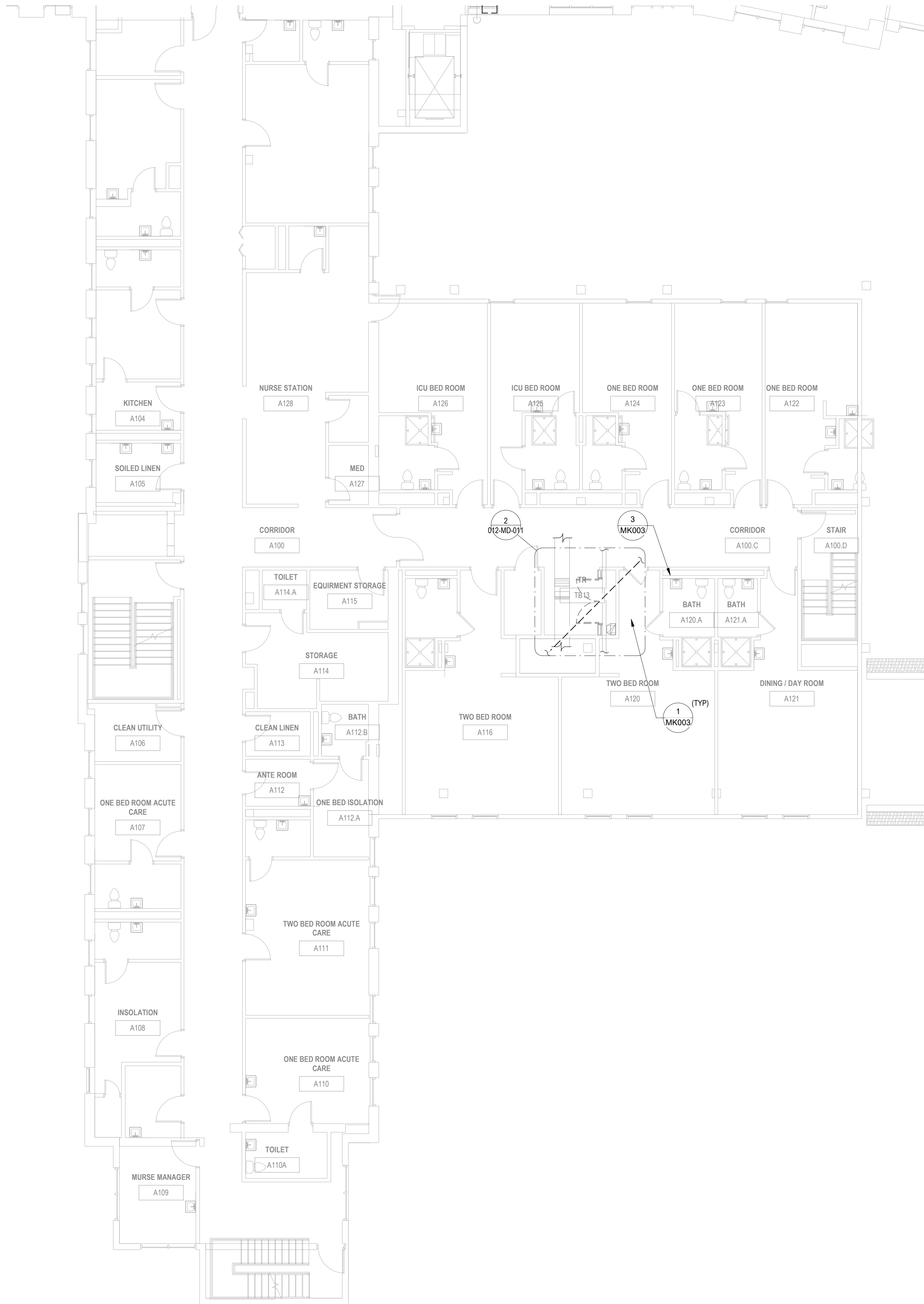
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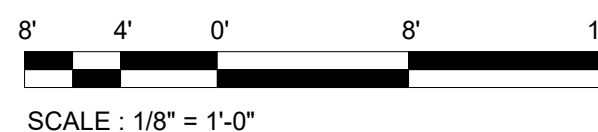
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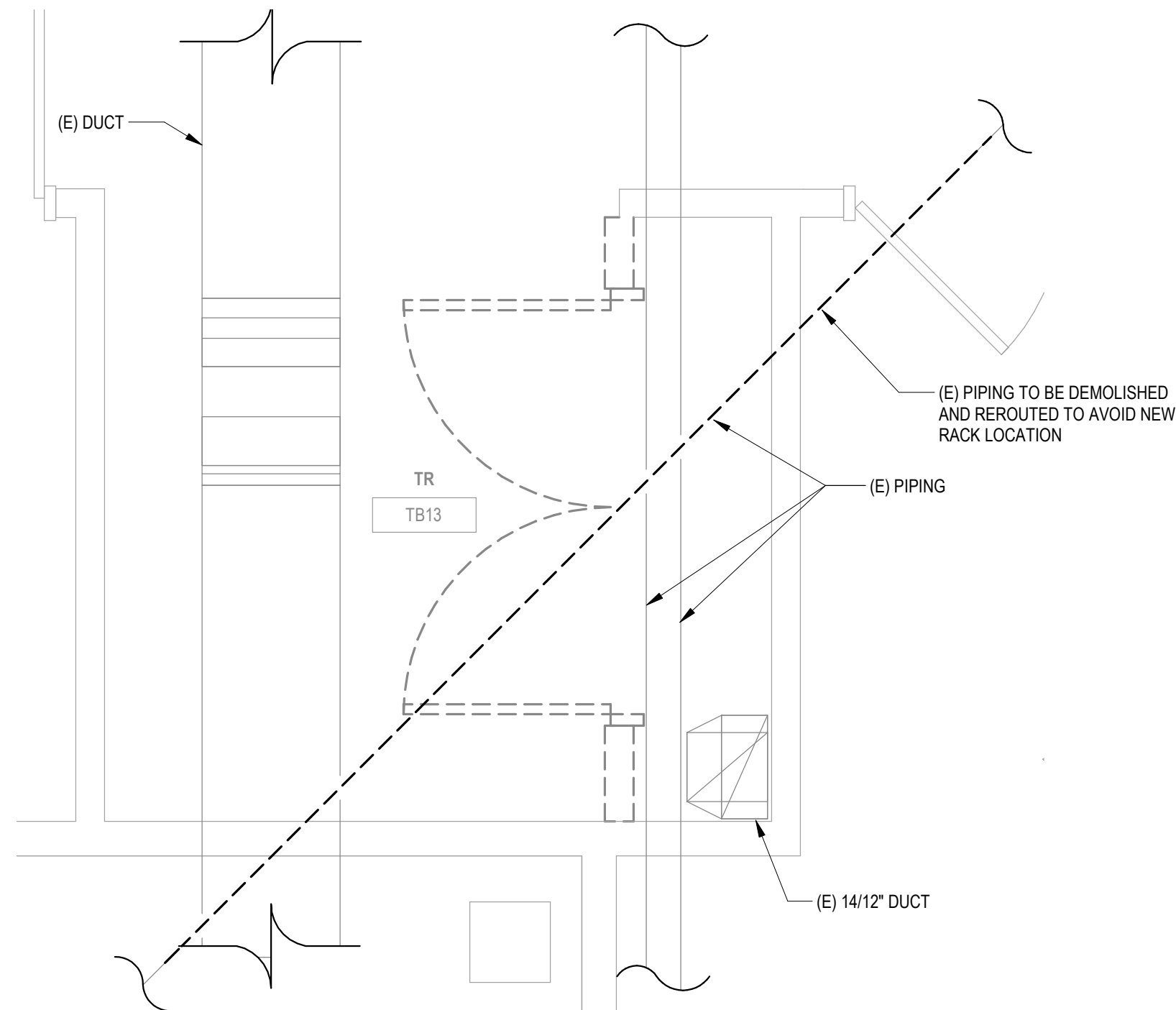
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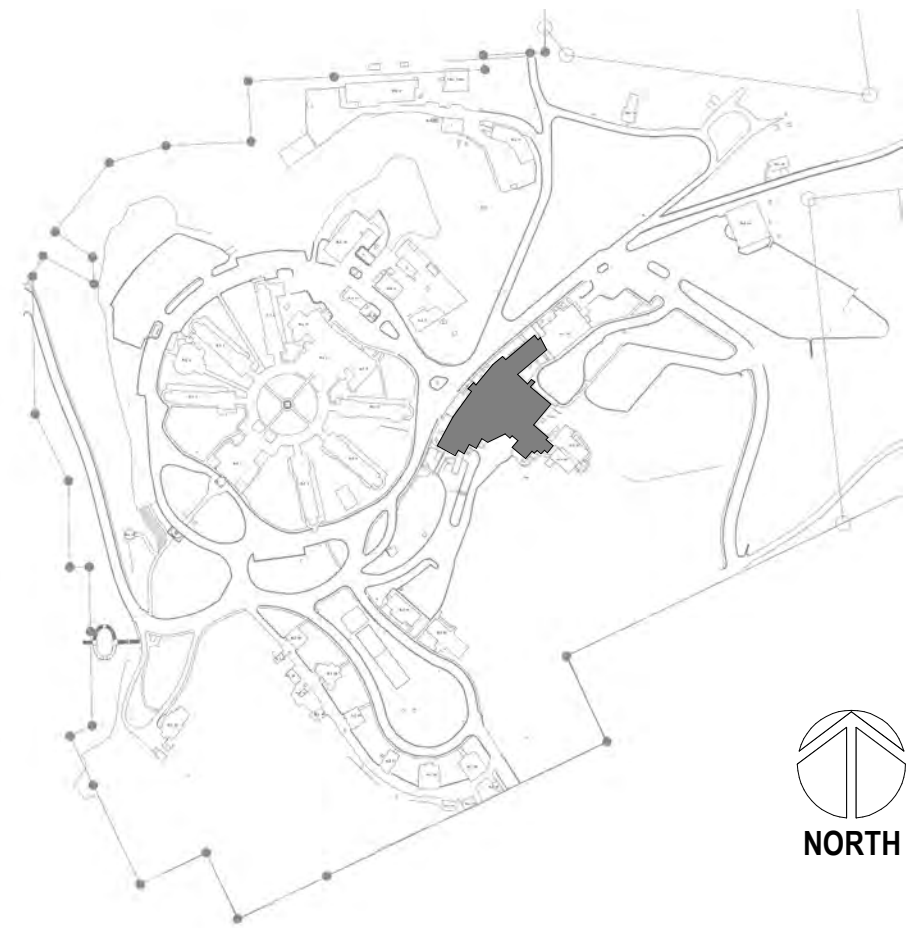
1 BUILDING 12 FIRST FLOOR HVAC DEMOLITION PLAN - SECTOR A  
1/8" = 1'-0"



2 ENLARGED ROOM - TB13 HVAC DEMOLITION  
1/2" = 1'-0"



SITE LEGEND



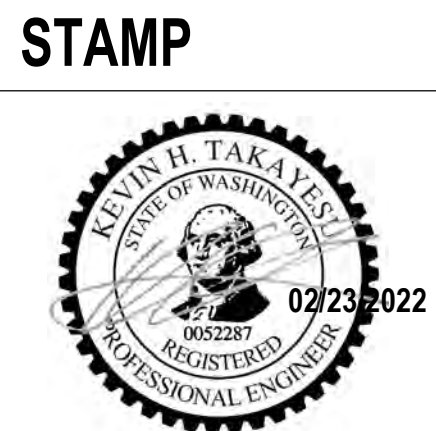
Revisions:	Date:

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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE  
12-FIRST FLOOR HVAC DEMOLITION PLANS - SECTOR A

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

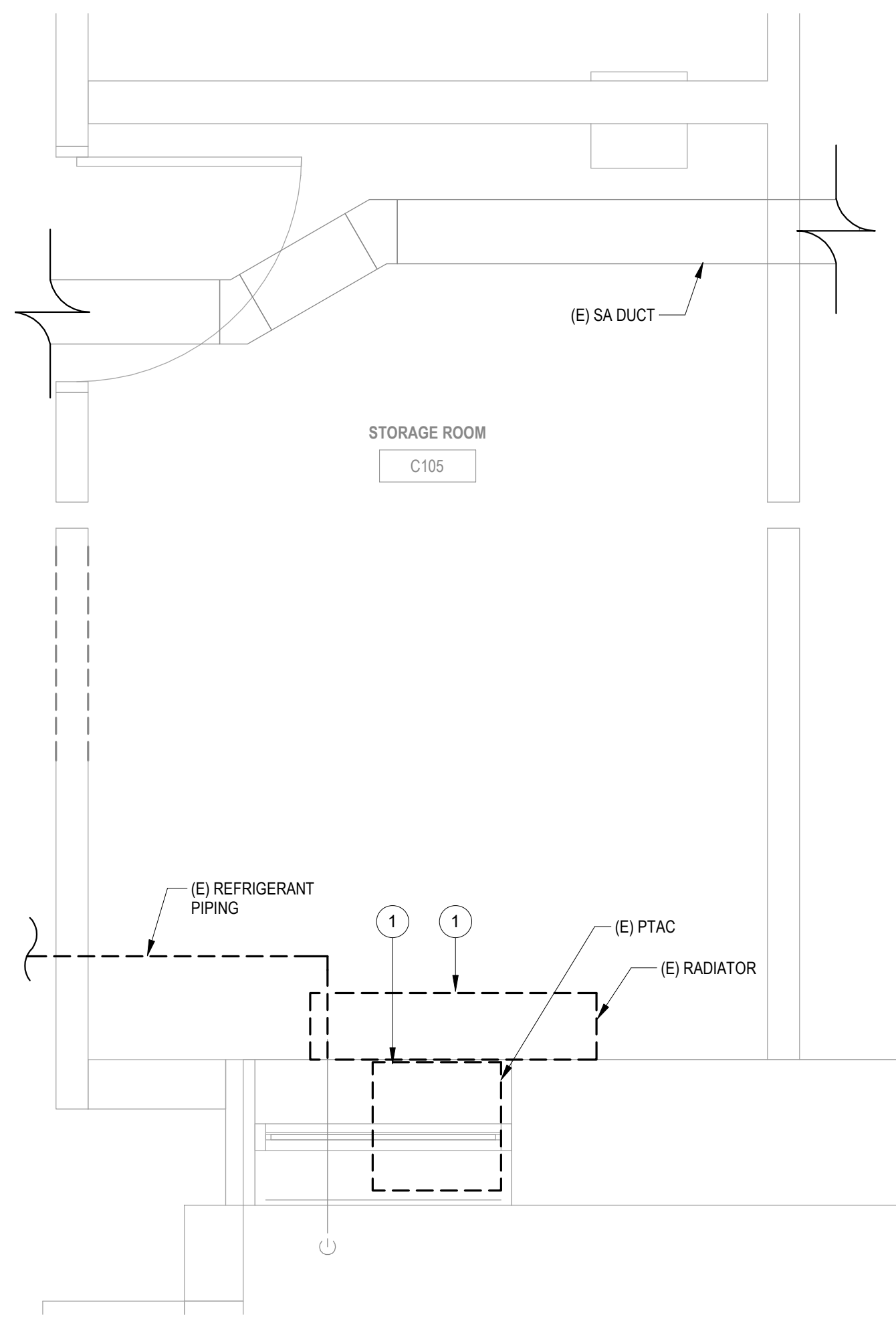
CHECKED BY  
Checker

DRAWN BY  
Author

PROJECT NUMBER  
568A4-21-702  
BUILDING NUMBER  
12  
DRAWING NUMBER  
012-MD-011

## PLAN NOTES

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN  
BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST  
CONTROL PANEL OR JUNCTION BOX.



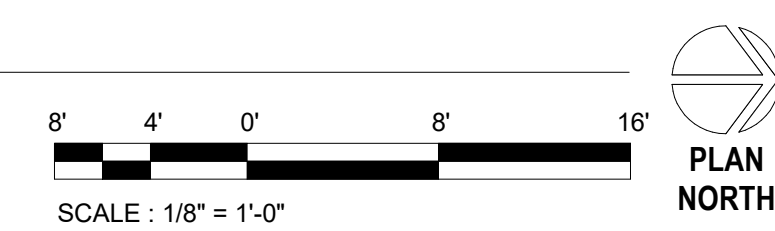
NOTE: NO HVAC OR PLUMBING DEMOLITION WORK IN SPACE.  
DATA IN TO BE RELOCATED. ROOM TO BE ABANDONED.

2 ENLARGED ROOM - B105B HVAC DEMOLITION  
1/2" = 1'-0"

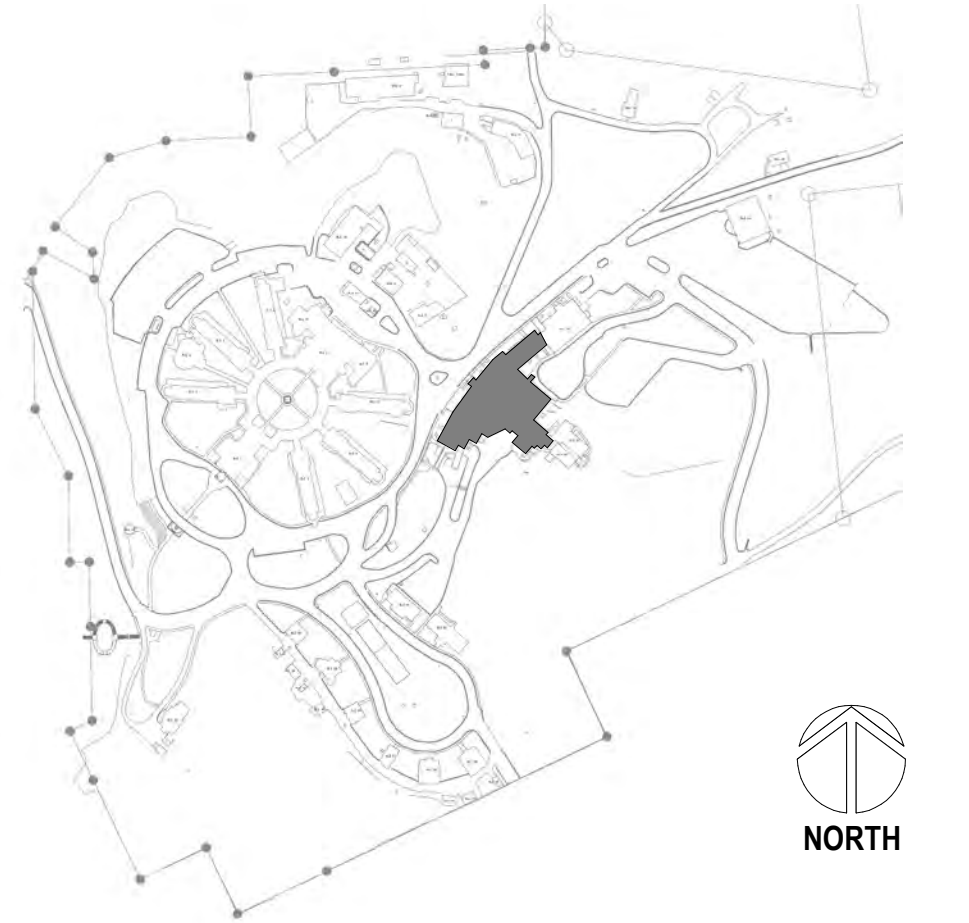
3 ENLARGED ROOM - 134B AND TB5 HVAC DEMOLITION  
1/2" = 1'-0"



1 BUILDING 12 FIRST FLOOR HVAC DEMOLITION PLAN - SECTORS C/D  
1/8" = 1'-0"



## SITE LEGEND

[illegible]


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The logo for GDM Architects + Engineers is a black rectangle with a thin white border. Inside, the letters "GDM" are prominently displayed in a large, white, serif font. Below "GDM", the words "ARCHITECTS + ENGINEERS" are written in a smaller, white, sans-serif font, separated by a small plus sign. The entire logo is centered within the right half of the contact information section.

**STAMP**

KEVIN H. TAKAYESU  
STATE OF WASHINGTON  
0052287  
REGISTERED  
PROFESSIONAL ENGINEER  
02/23/2022

**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE
12-FIRST FLOOR HVAC DEMOLITION PLANS - SECTOR C/D
APPROVED:

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

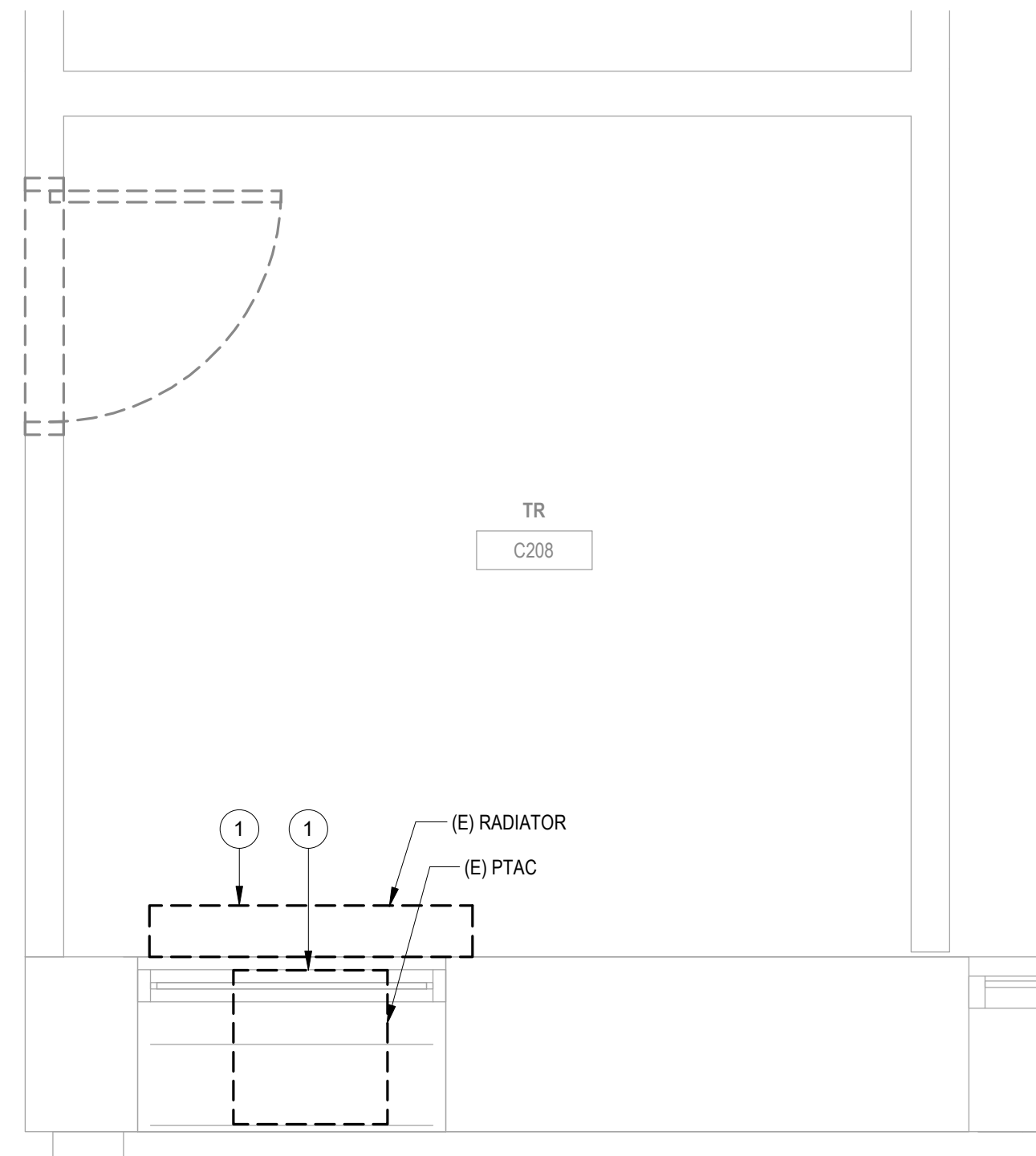
PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 12
DRAWING NUMBER 012-MD-012

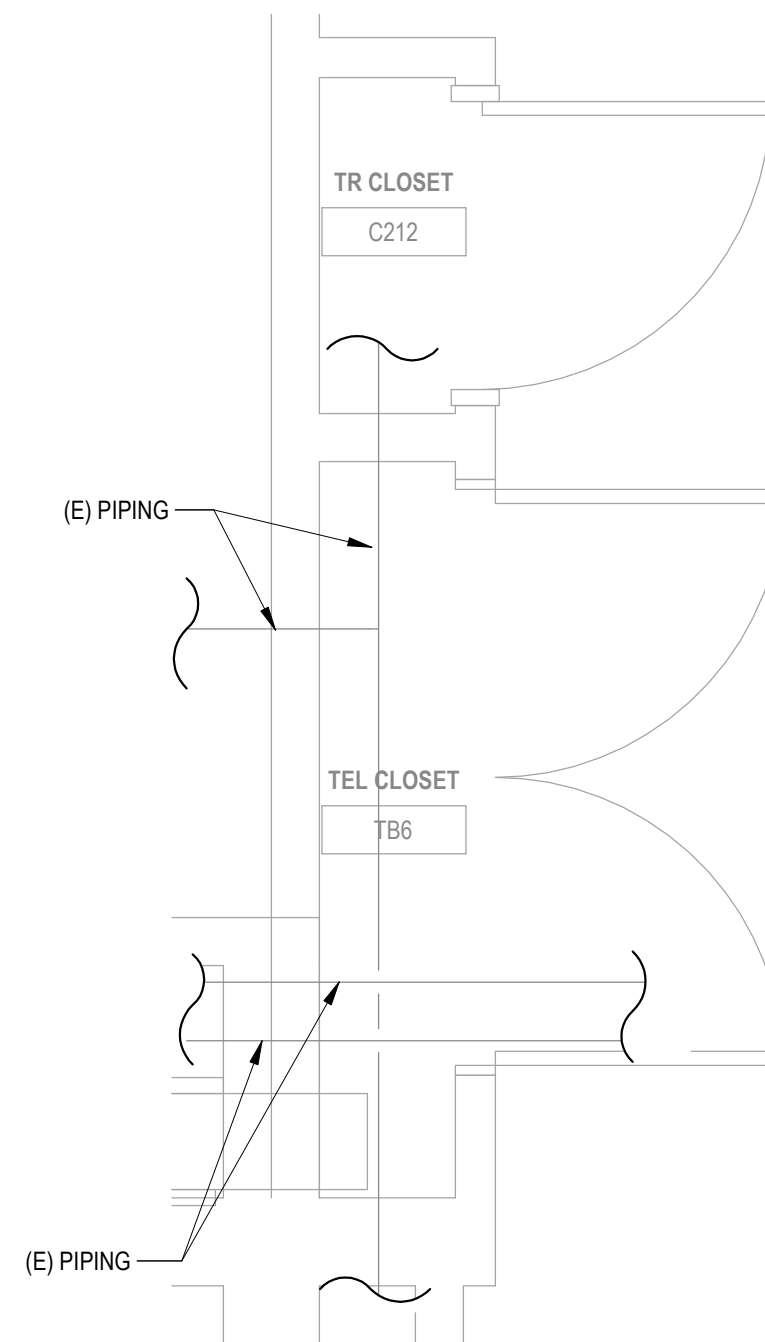


## PLAN NOTES

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.



2 ENLARGED ROOM - C208 HVAC DEMOLITION  
1/2" = 1'-0"

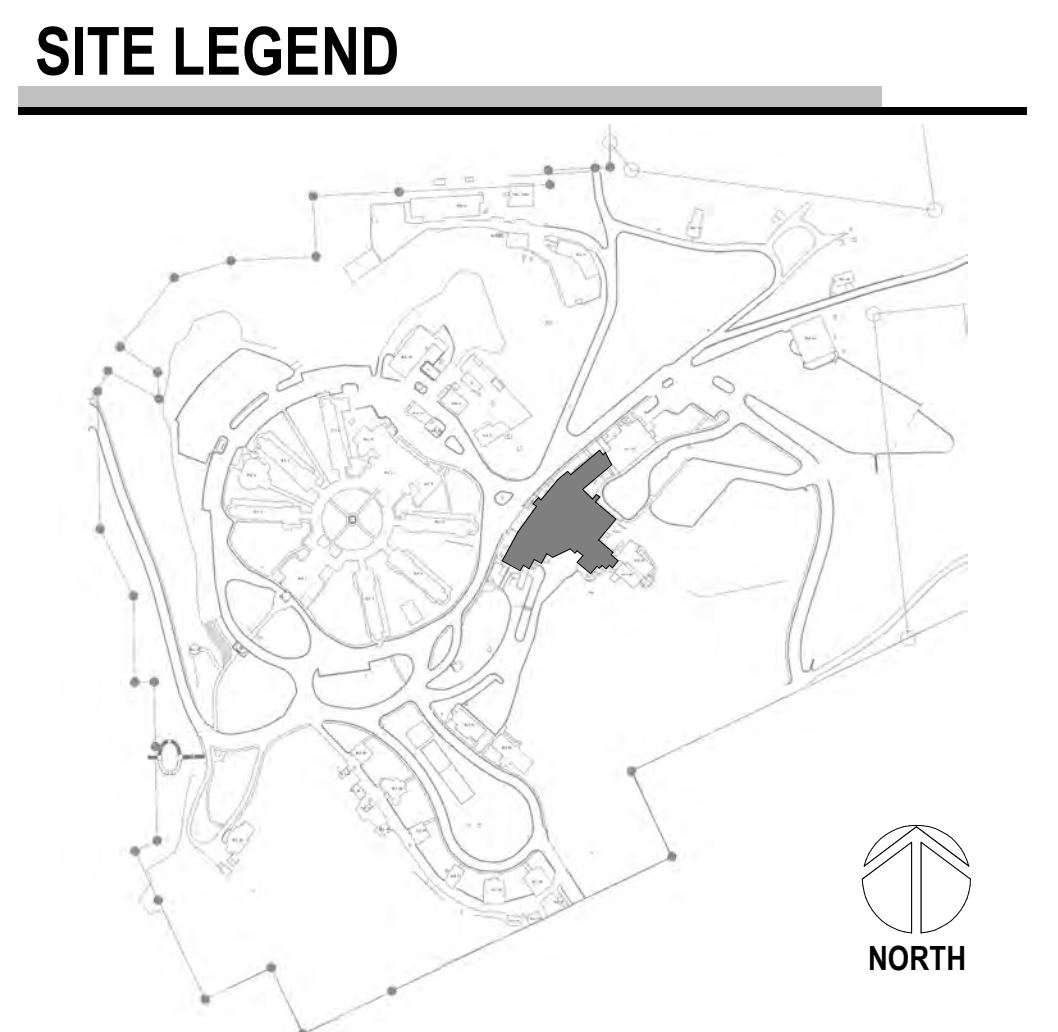


NOTE: NO HVAC OR PLUMBING DEMOLITION WORK IN SPACE  
DATA IN TO BE RELOCATED. ROOM TO BE ABANDONED.

3 ENLARGED ROOM - C212 HVAC DEMOLITION  
1/2" = 1'-0"



1 BUILDING 12 SECOND FLOOR HVAC DEMOLITION PLAN - SECTORS C/D  
1/8" = 1'-0"

[illegible]

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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE

12-SECOND FLOOR HVAC  
DEMOLITION PLANS - SECTOR C/D

APPROVED:

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
12
DRAWING NUMBER
012-MD-021

PLAN NOTES

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.

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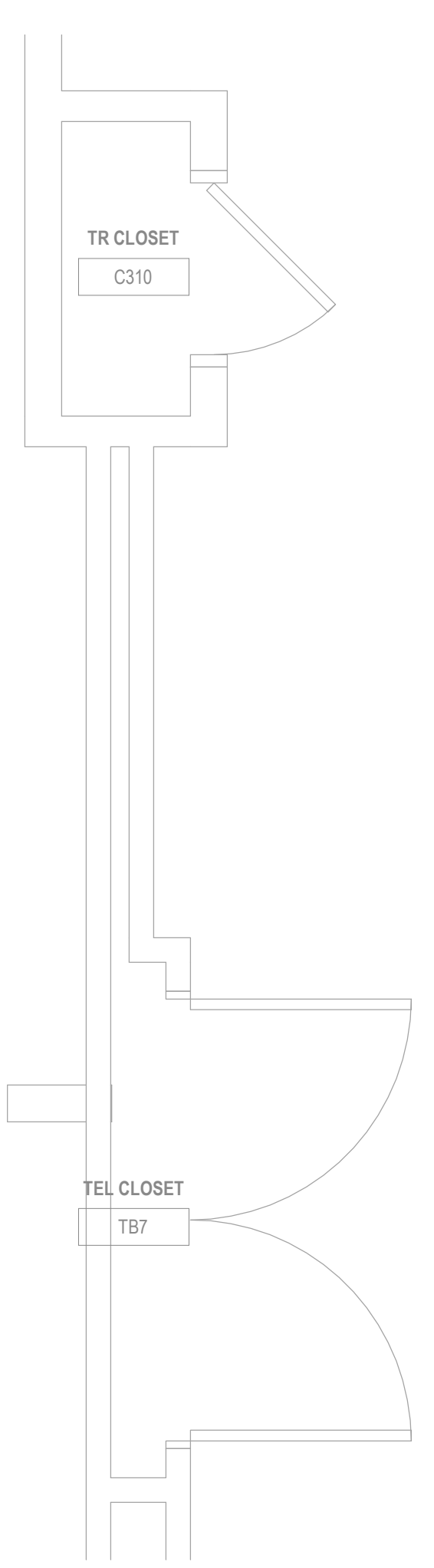
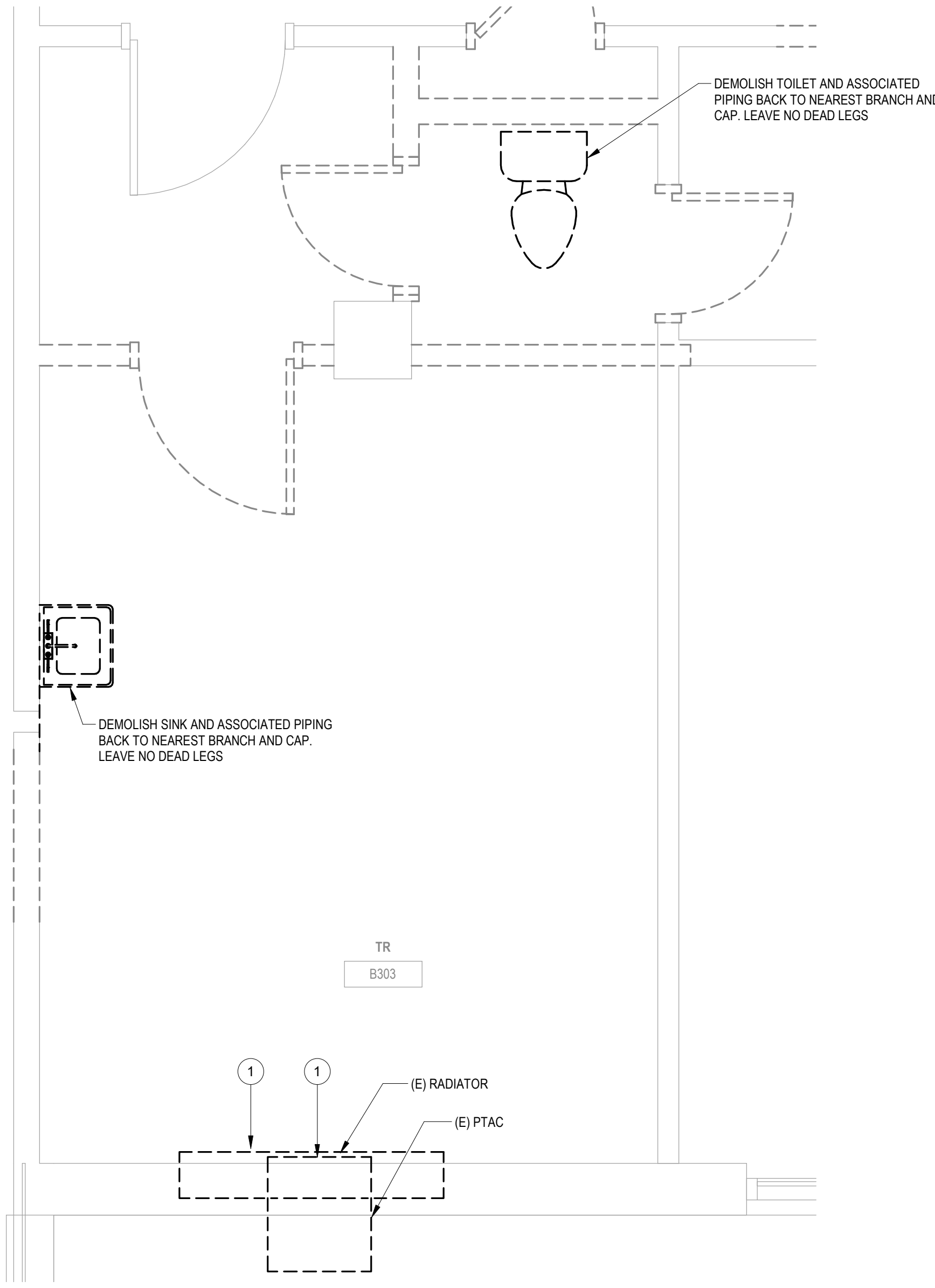
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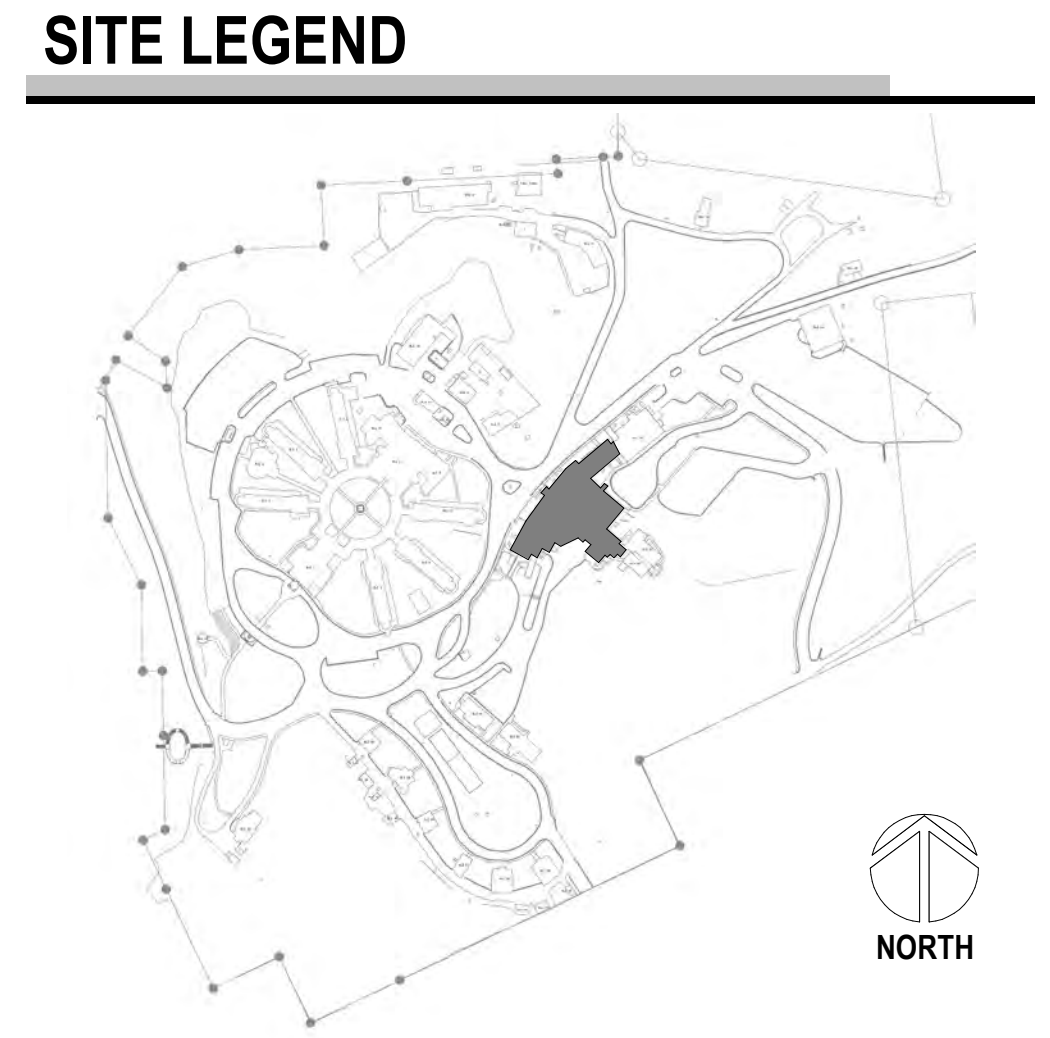
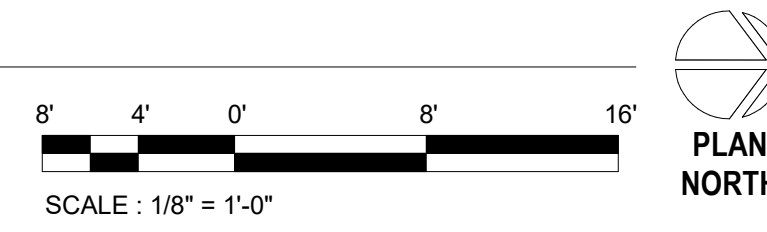


3 ENLARGED ROOM - C310 AND TB7 HVAC DEMOLITION  
1/2" = 1'-0"

2 ENLARGED ROOM - B303 HVAC DEMOLITION  
1/2" = 1'-0"



1 BUILDING 12 THIRD FLOOR HVAC DEMOLITION PLAN - SECTORS C/D  
1/8" = 1'-0"



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Revisions:	Date:

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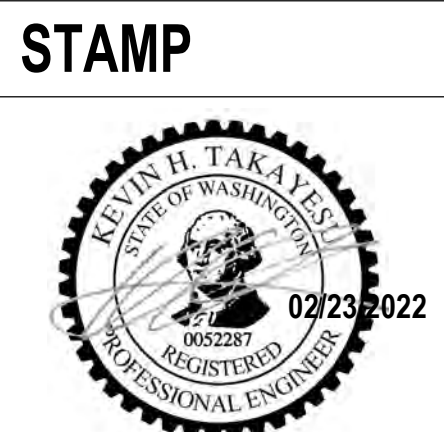
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**GDM**  
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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
12-THIRD FLOOR HVAC DEMOLITION PLANS - SECTOR C/D

**APPROVED:**

**PHASE**  
100% CD FINAL SOLUTION

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
HOT SPRINGS, SOUTH DAKOTA

**ISSUE DATE**  
02/23/2022

**CHECKED BY**  
KHT

**DRAWN BY**  
KBT

**PROJECT NUMBER**  
568A4-21-702

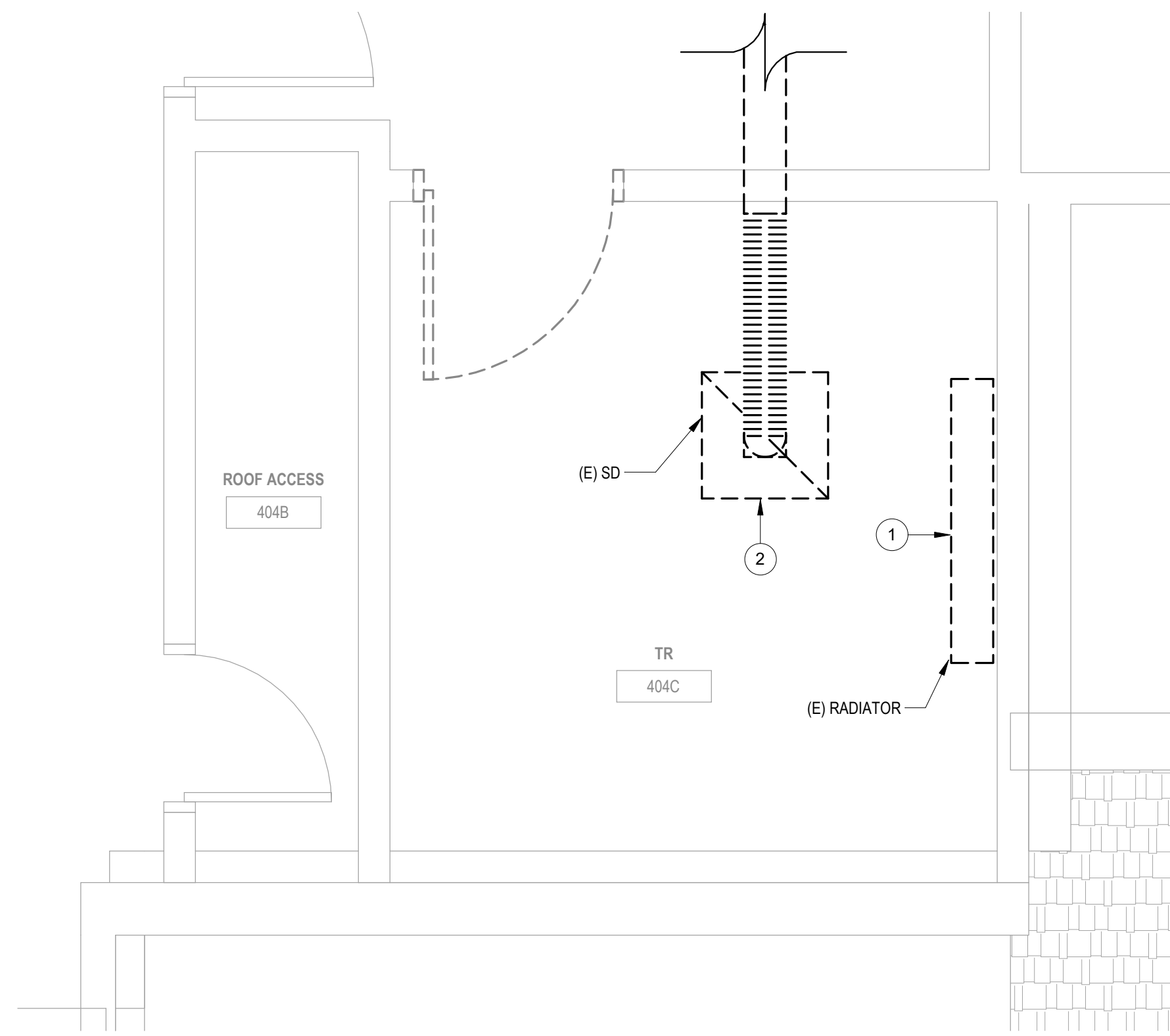
**BUILDING NUMBER**  
12

**DRAWING NUMBER**  
012-MD-031



## PLAN NOTES

- 1 DEMOLISH EXISTING MECHANICAL EQUIPMENT AND ANY ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. DEMOLISH ANY ASSOCIATED CONTROLS AND WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX.
- 2 DEMOLISH EXISTING AIR TERMINAL AND ASSOCIATED DUCTWORK BACK TO BRANCH AND CAP.

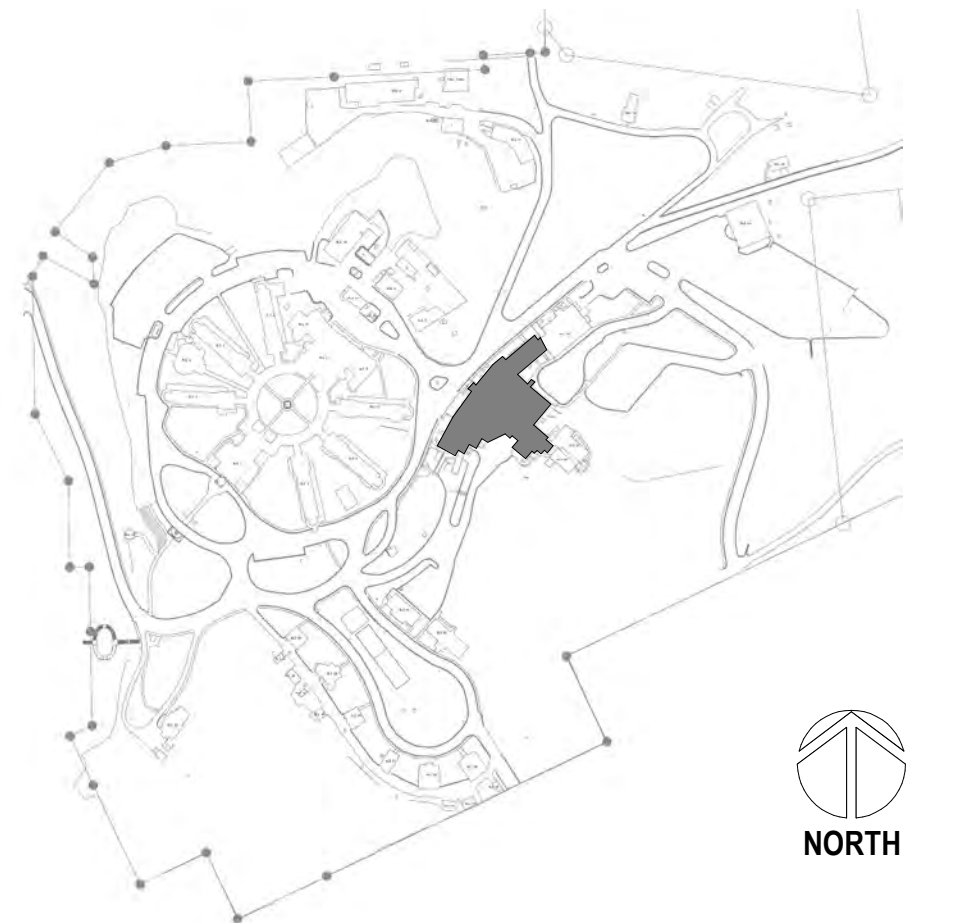


2 ENLARGED ROOM - 404C HVAC DEMOLITION  
1/2" = 1'-0"

1 BUILDING 12 FOURTH FLOOR HVAC DEMOLITION PLAN  
1/8" = 1'-0"

3 ENLARGED ROOM - 407A AND TB8 HVAC DEMOLITION  
1/2" = 1'-0"

## SITE LEGEND

[illegible]

**CONSULTANT**

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 02/23/2022

**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE

# 12-FOURTH FLOOR HVAC DEMOLITION PLAN - SECTOR C/D

APPROVED:

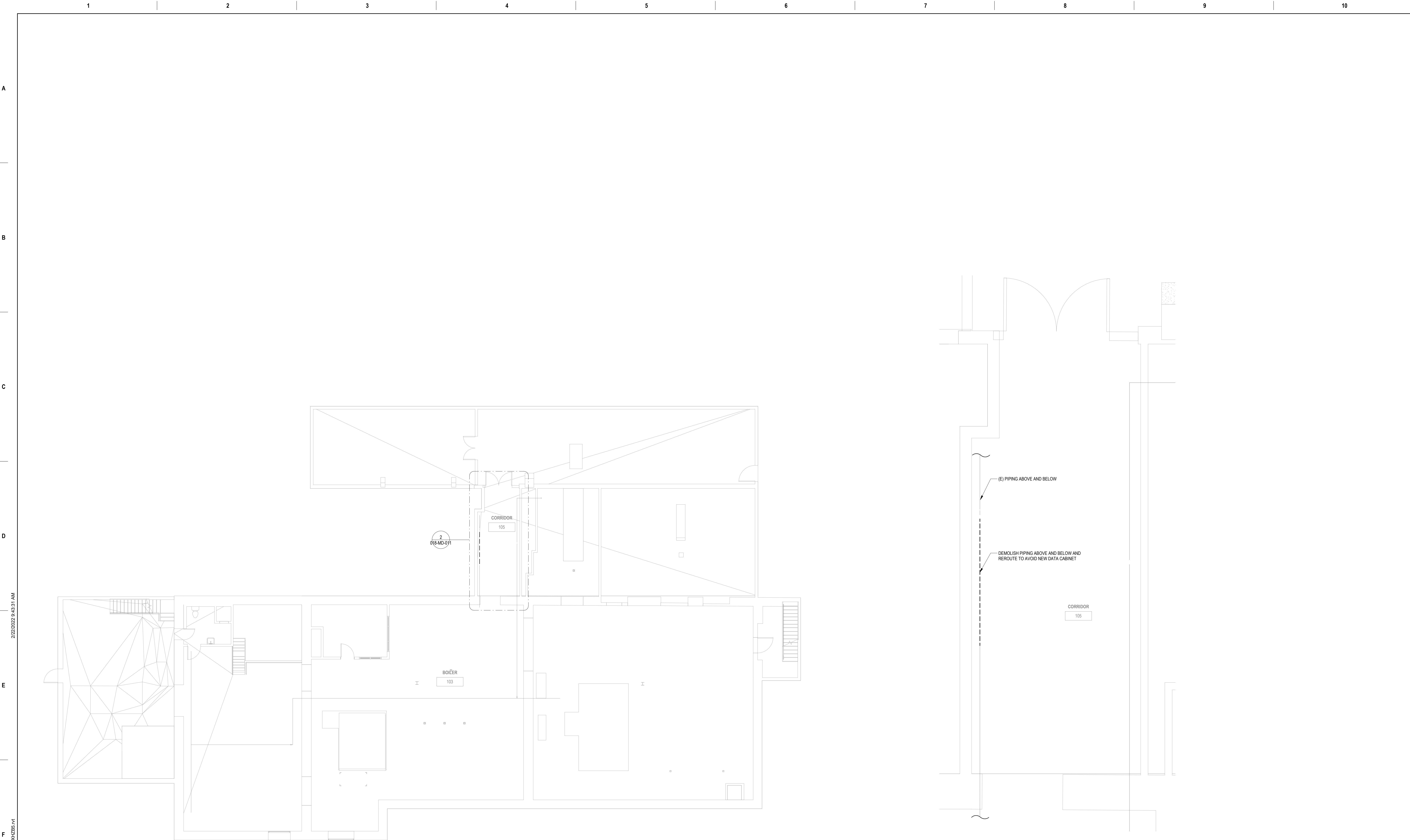
PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
12
DRAWING NUMBER
012-MD-041





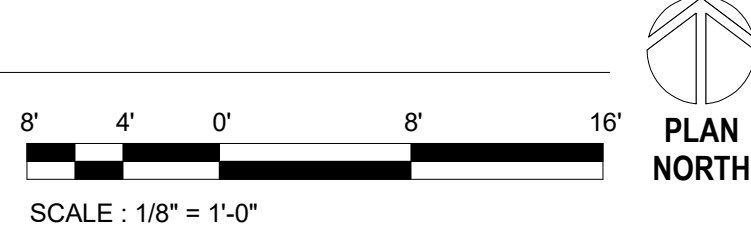


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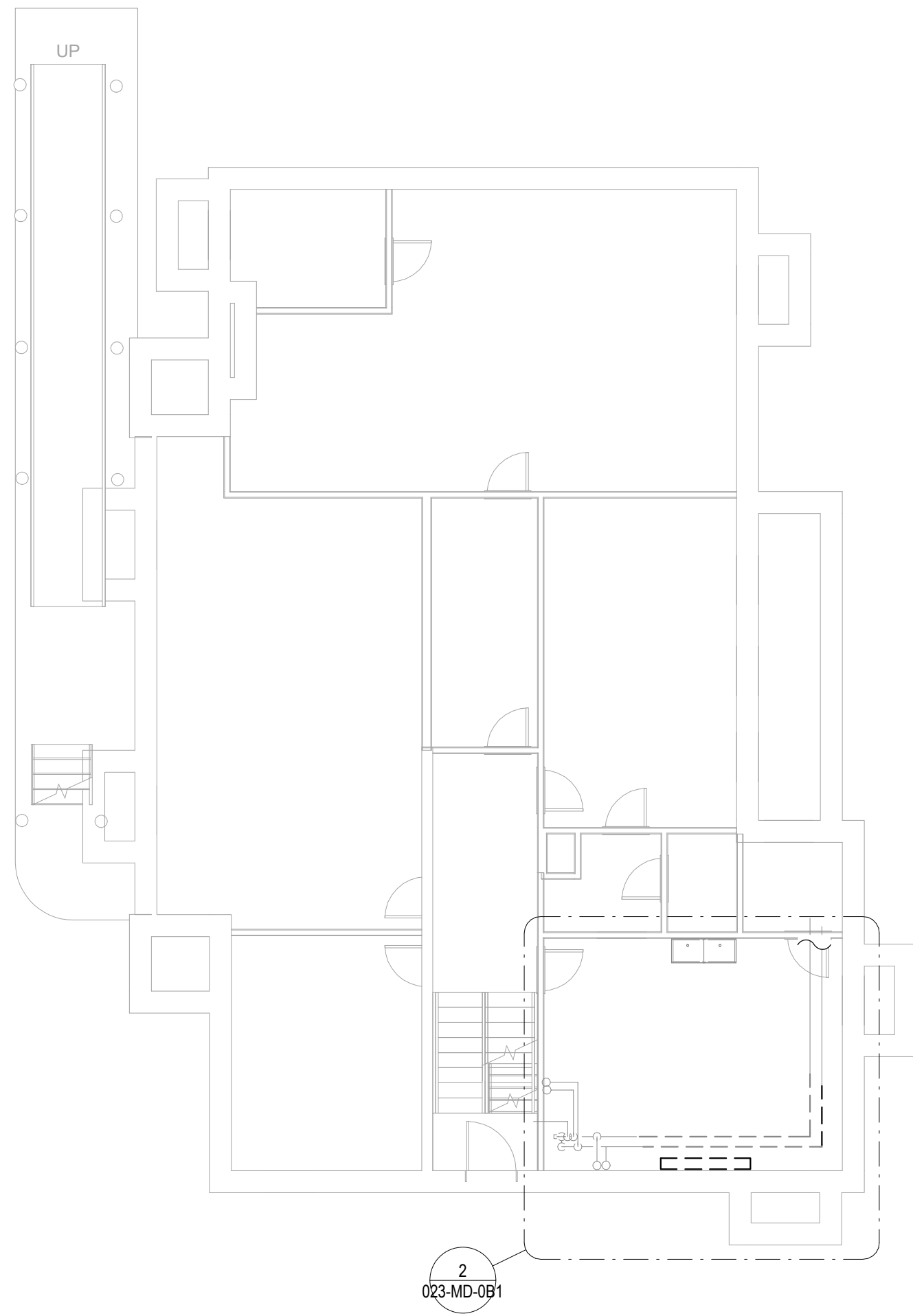
BUILDING 18 FIRST FLOOR DEMOLITION PLAN - HVAC  
1/8" = 1'-0"

2

ENLARGED ROOM - 002 HVAC DEMOLITION  
1/2" = 1'-0"



<div>Revisions:</div> <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>									<div>CONSULTANT</div> <div><div>A/E</div><div>GDM</div><div>1584 McNeil St, Suite 200</div><div>DuPont, WA 98327</div><div>360.318.7095</div><div>JESSE BARKSDALE</div></div> <div><div>GDM</div><div>ARCHITECTS - ENGINEERS</div></div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>ARCHITECT</div><div>GDM</div><div>1000 W STEUBEN ST. UNIT 3</div><div>BINGEN, WA 98605</div><div>541.436.4723</div><div>ADAM GODDIN, PE</div></div> <div><div>GDM</div><div>ARCHITECTS - ENGINEERS</div></div>	<div>STAMP</div> <div></div>	<div>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</div> <div> U.S. Department of Veterans Affairs</div>	<div>DRAWING TITLE</div> <div>18-FIRST FLOOR HVAC DEMOLITION PLANS</div> <div>APPROVED:</div> <div> </div>	<div>PHASE</div> <div>100% CD FINAL SOLUTION</div> <div>FLS</div> <div>NOT SPRINKLERED</div>	<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>LOCATION</div> <div>HOT SPRINGS, SOUTH DAKOTA</div> <div>ISSUE DATE</div> <div>02/23/2022</div> <div>CHECKED BY</div> <div>KHT</div> <div>DRAWN BY</div> <div>KBT</div>	<div>PROJECT NUMBER</div> <div>568A4-21-702</div> <div>BUILDING NUMBER</div> <div>18</div> <div>DRAWING NUMBER</div> <div>018-MD-011</div>



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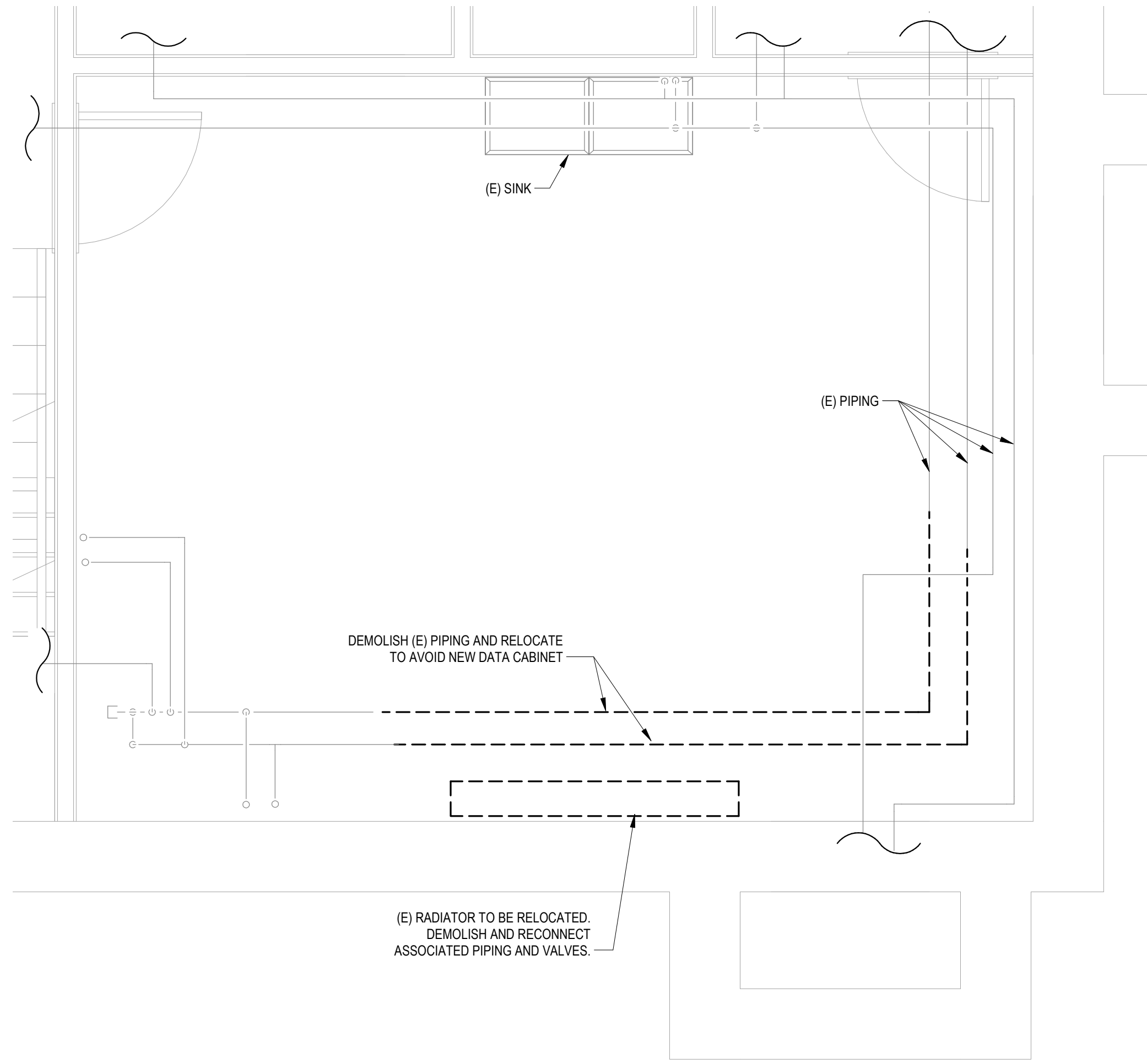
BUILDING 23 BASEMENT DEMOLITON PLAN - HVAC

1/8" = 1'-0"

8' 4' 0' 8' 16'

SCALE : 1/8" = 1'-0"

PLAN NORTH

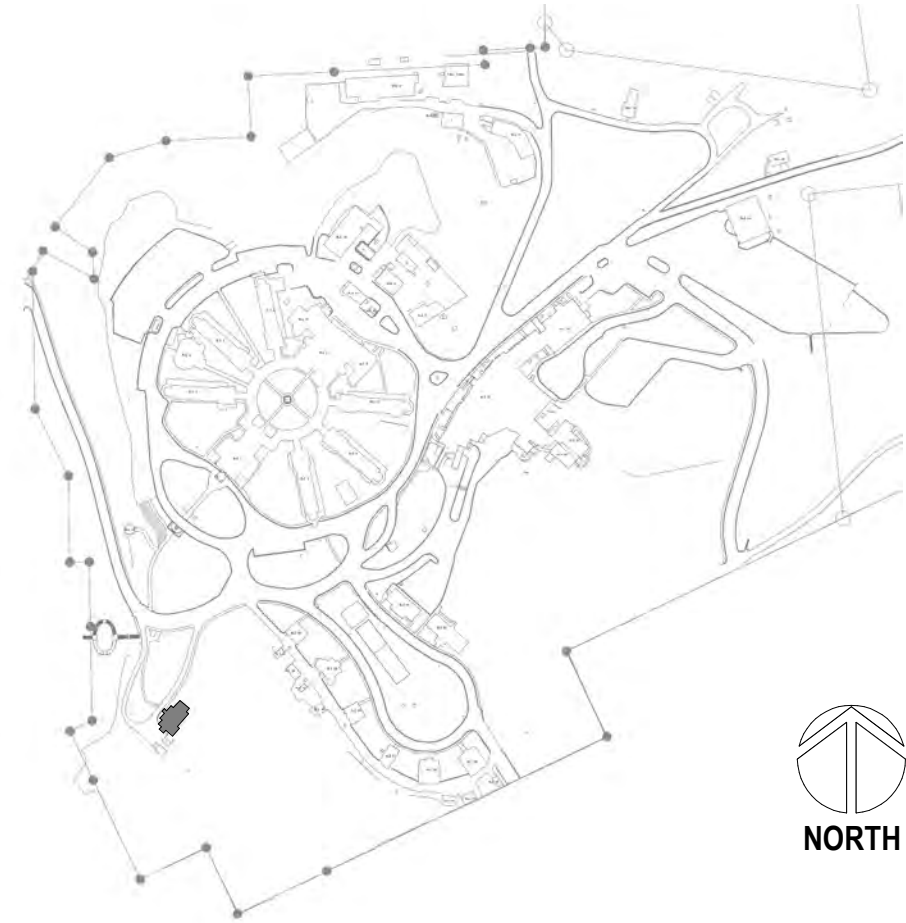


2

ENLARGED ROOM - BASEMENT HVAC DEMOLITION

1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

CONSULTANT

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REGISTERED ARCHITECT  
WASHINGTON  
NOV 23 2022

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ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

DRAWING TITLE  
23-BASEMENT HVAC DEMOLITION  
PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
NOT SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

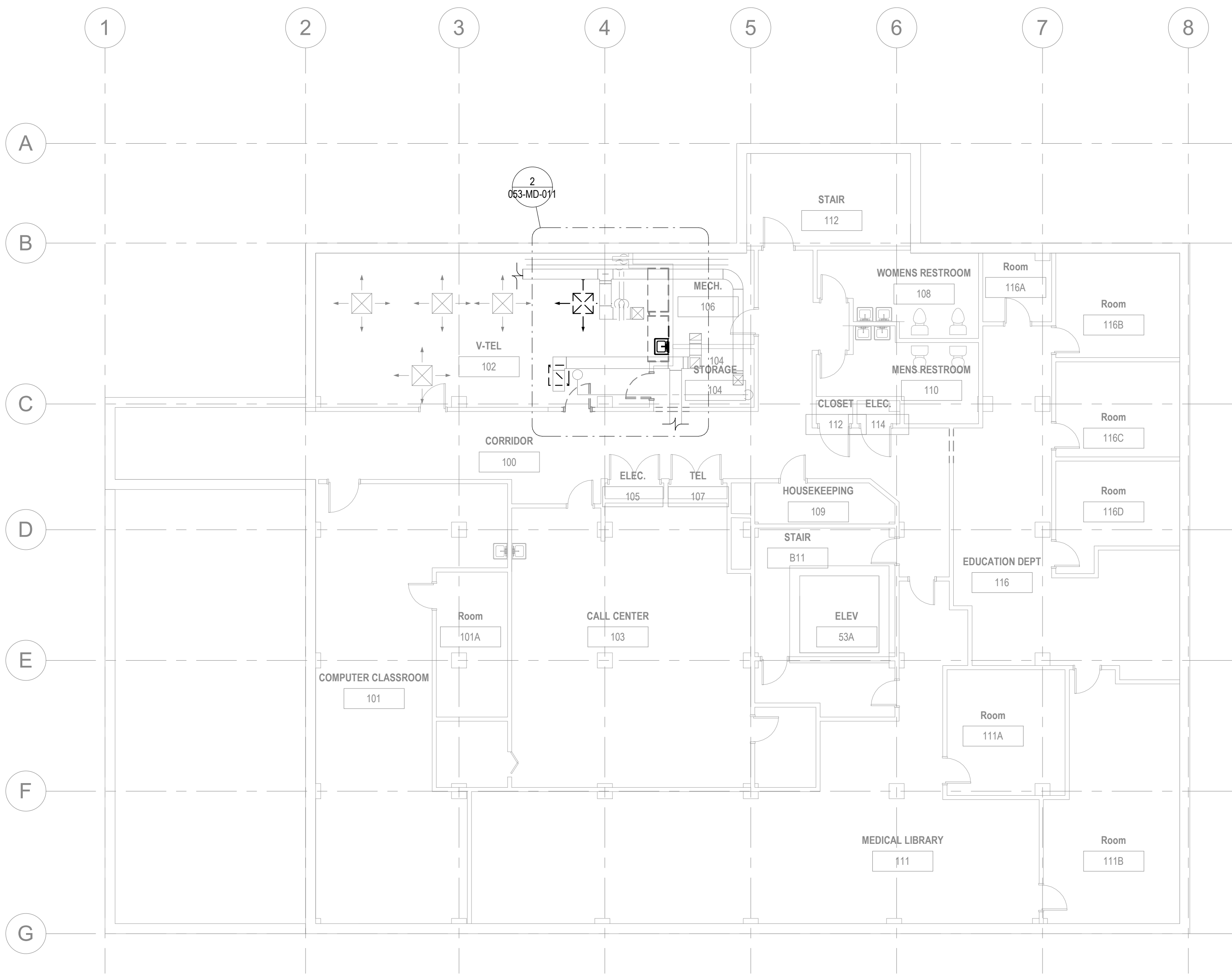
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KBT

PROJECT NUMBER  
568A4-21-702

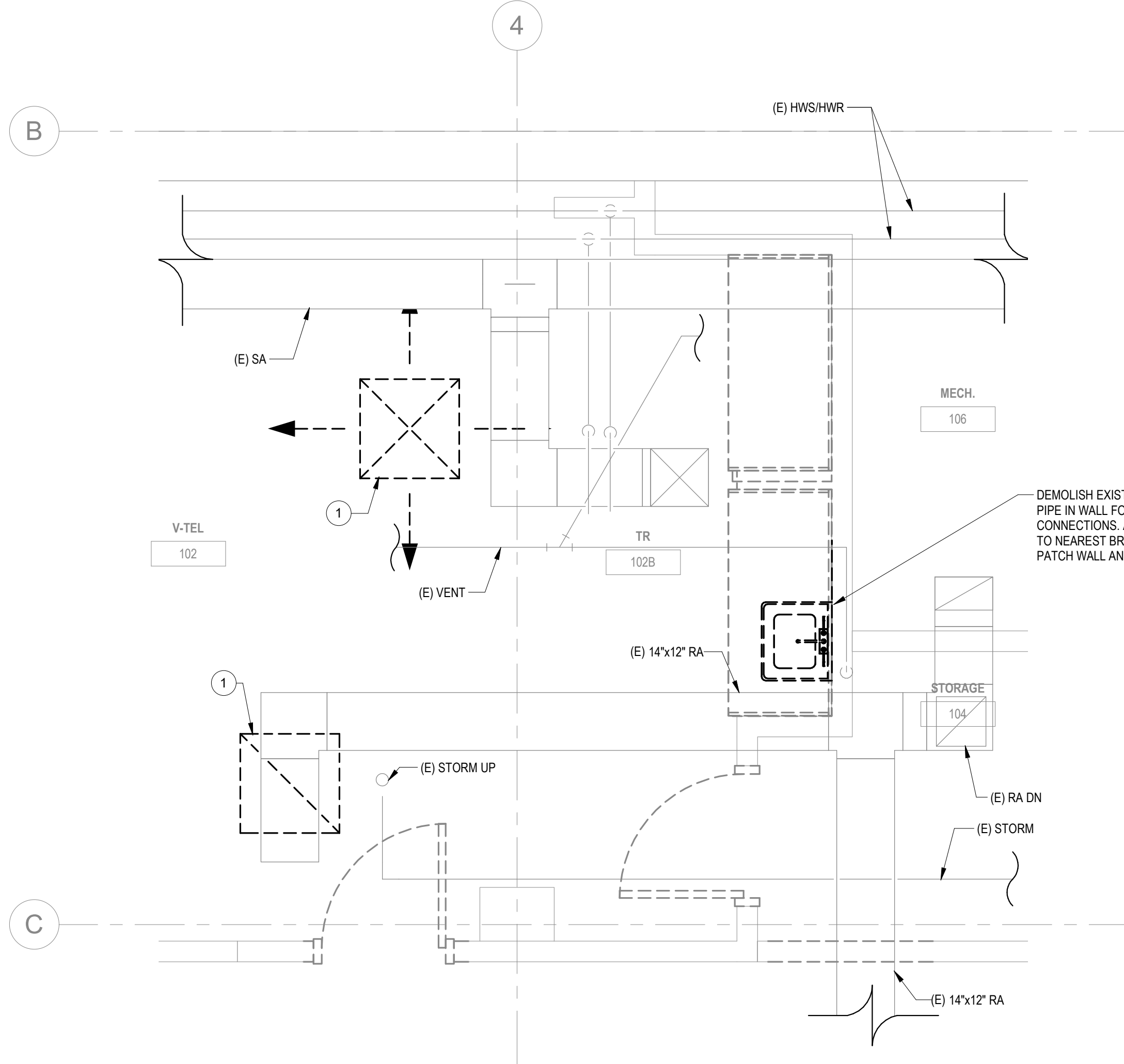
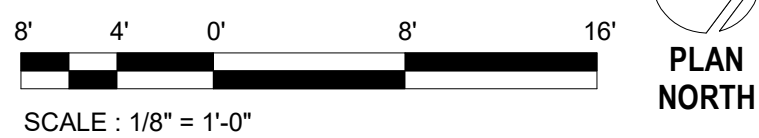
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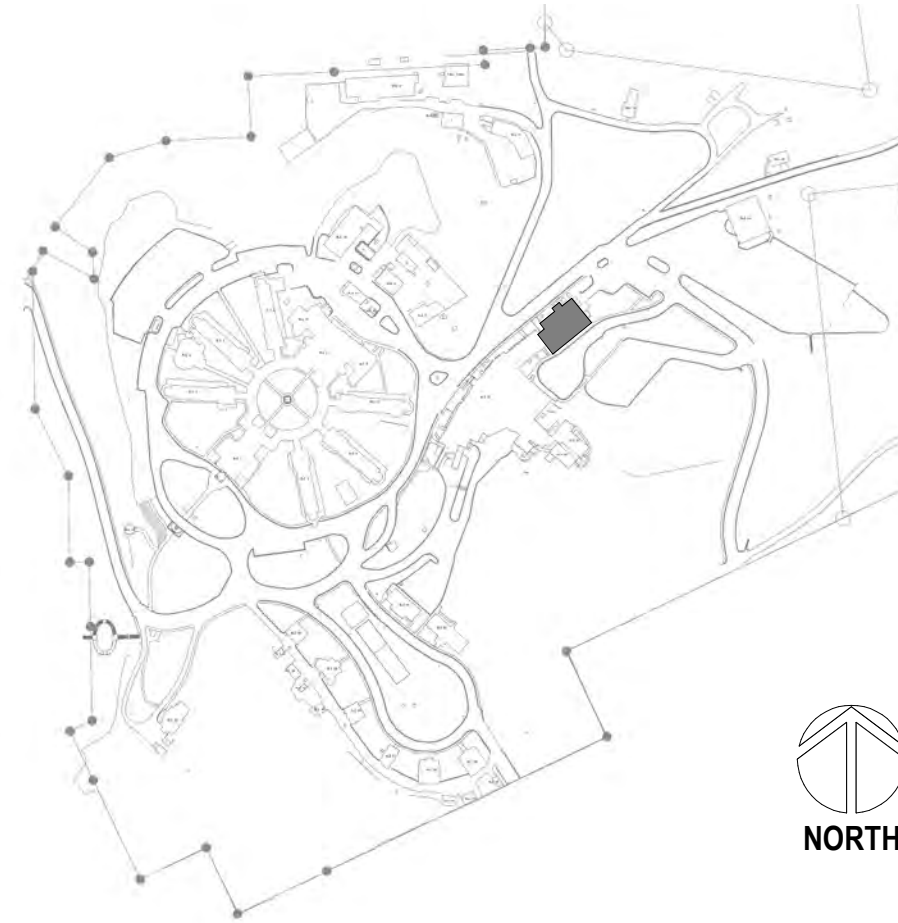


1 BUILDING 53 FIRST FLOOR DEMOLITON PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED ROOM - 102B HVAC DEMOLITION  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

**CONSULTANT**

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MAINTAIN TAKALOGIC  
MAINTAIN TAKALOGIC

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

U.S. Department of Veterans Affairs

DRAWING TITLE  
53-FIRST FLOOR HVAC DEMOLITION PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

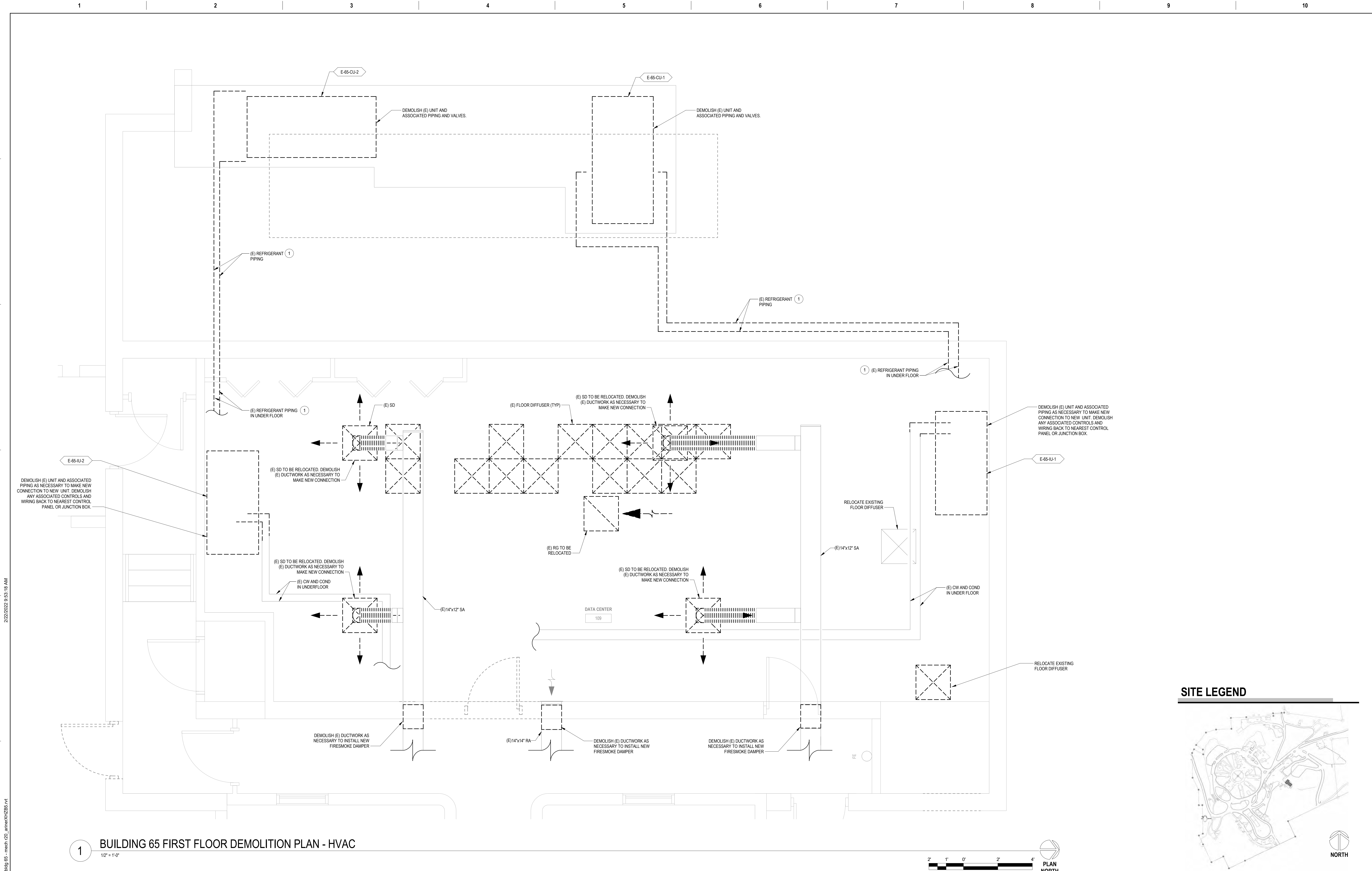
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HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

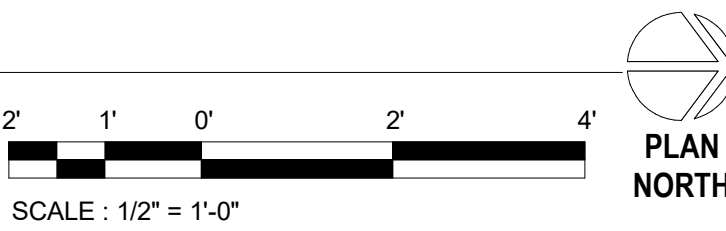
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KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702  
BUILDING NUMBER  
53  
DRAWING NUMBER  
053-MD-011



1 BUILDING 65 FIRST FLOOR DEMOLITION PLAN - HVAC  
1/2" = 1'-0"

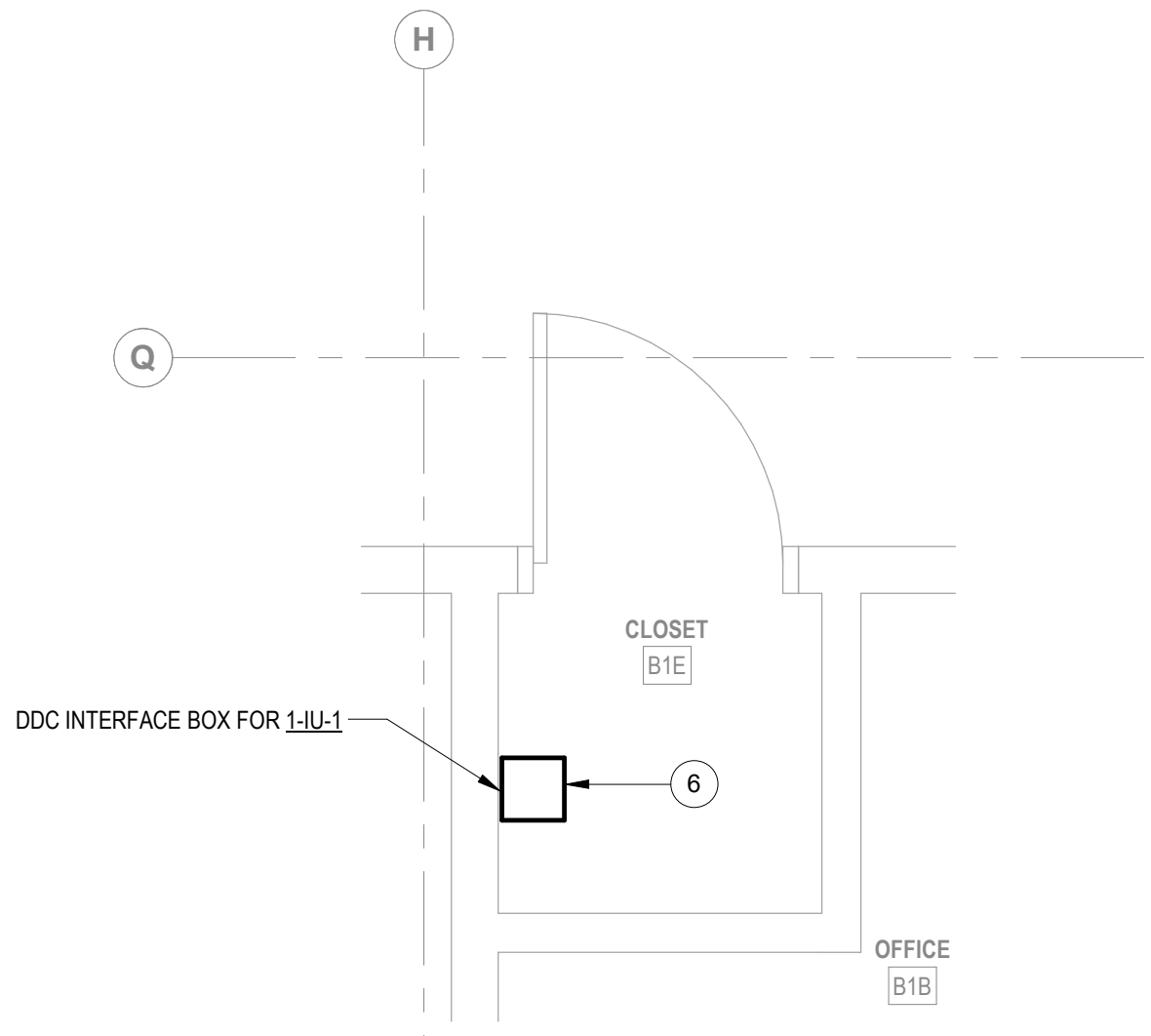


<div>Revisions:</div> <div>Date:</div>		<div>CONSULTANT</div> <div>A/E GDM 1584 McNeil St, Suite 200 DuPont, WA 98327 360.318.7095 JESSE BARKSDALE</div> <div>GDM ARCHITECTS - ENGINEERS</div>		<div>ARCHITECT/ENGINEER OF RECORD</div> <div>ARCHITECT GDM 1000 W STEUBEN ST. UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GODDIN, PE</div> <div>GDM ARCHITECTS - ENGINEERS</div>	<div>STAMP</div> <div>KATHLEEN TAKALOG KATHLEEN TAKALOG REGISTERED PROFESSIONAL ENGINEER 02/23/2022</div>	<div>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</div> <div>VA U.S. Department of Veterans Affairs</div>	<div>DRAWING TITLE</div> <div>65-FIRST FLOOR HVAC DEMOLITION PLANS</div> <div>APPROVED:</div>	<div>PHASE</div> <div>100% CD FINAL SOLUTION</div> <div>FLS</div> <div>SPRINKLERED</div>	<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>LOCATION</div> <div>HOT SPRINGS, SOUTH DAKOTA</div> <div>ISSUE DATE</div> <div>02/23/2022</div> <div>CHECKED BY</div> <div>KHT</div> <div>DRAWN BY</div> <div>KBT</div>	<div>PROJECT NUMBER</div> <div>568A4-21-702</div> <div>BUILDING NUMBER</div> <div>65</div> <div>DRAWING NUMBER</div> <div>065-MD-011</div>
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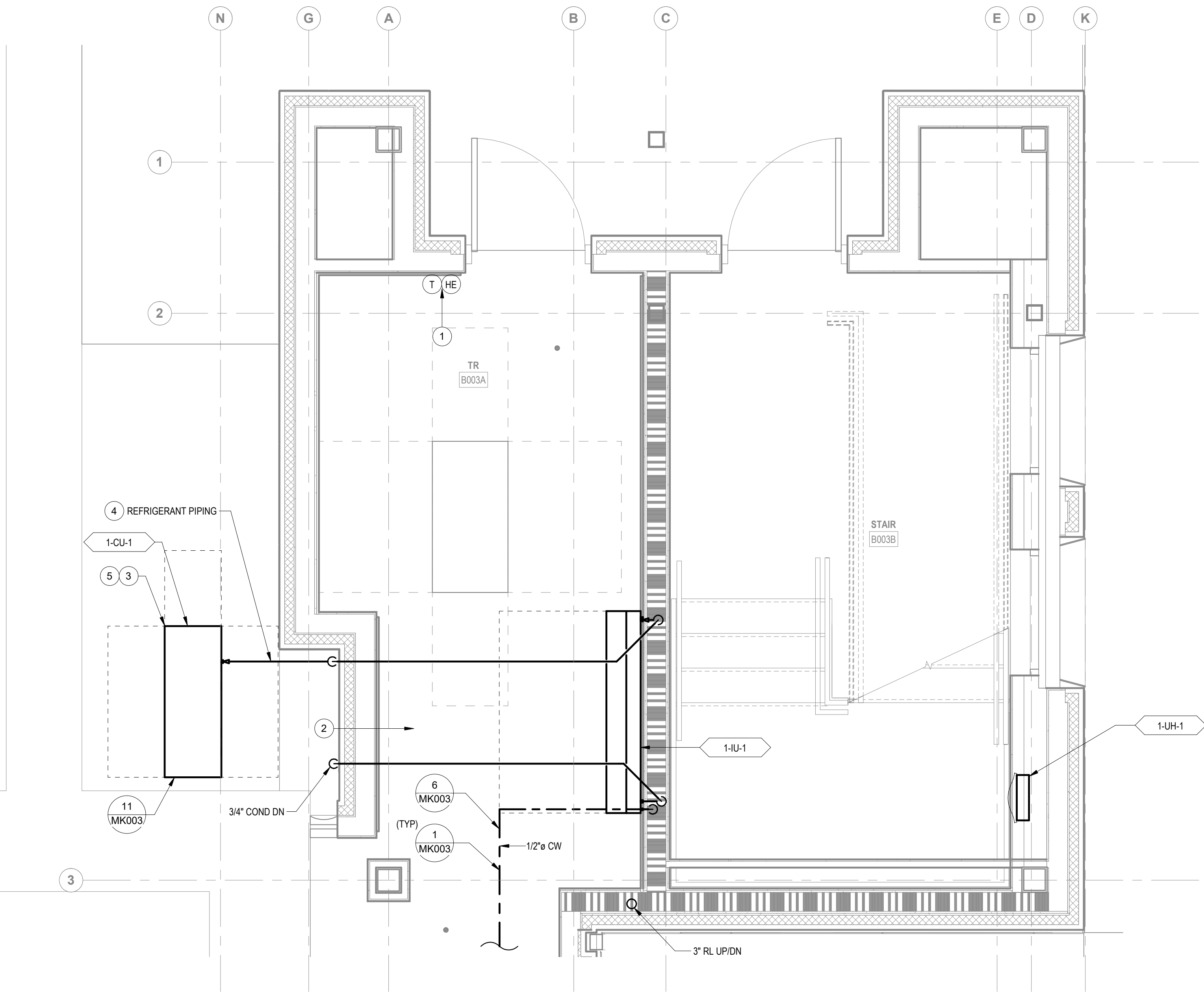


PLAN NOTES

- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF.  
CONNECT TO DDC SYSTEM.
- 2 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL  
ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL  
LOCATIONS.
- 3 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL UNIT PROTECTION  
DETAIL.
- 4 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
SEE CIVIL SHEET CU0002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.
- 5 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN NEW TR  
AND TO DDC SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER  
CONNECTION.
- 6

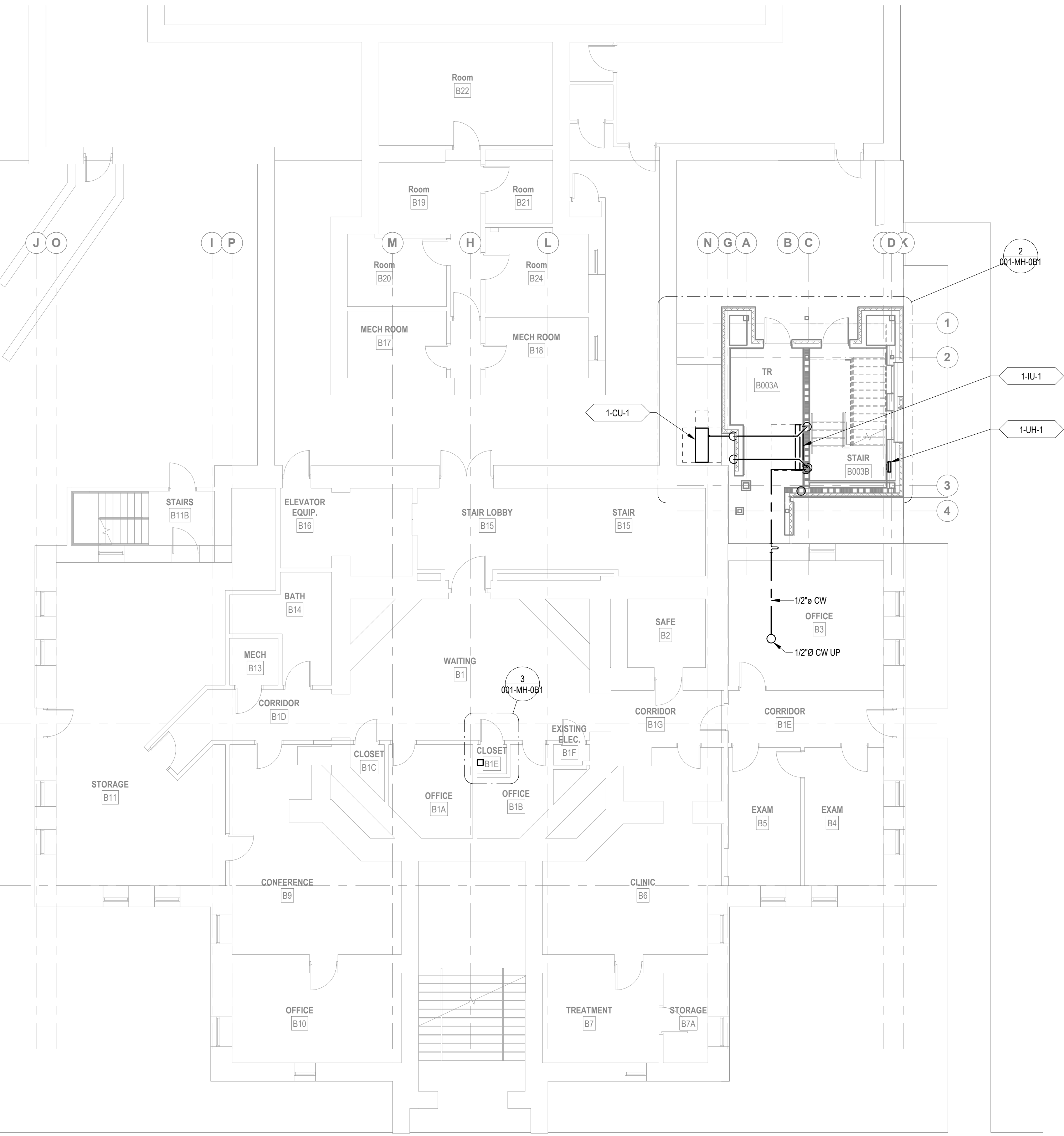
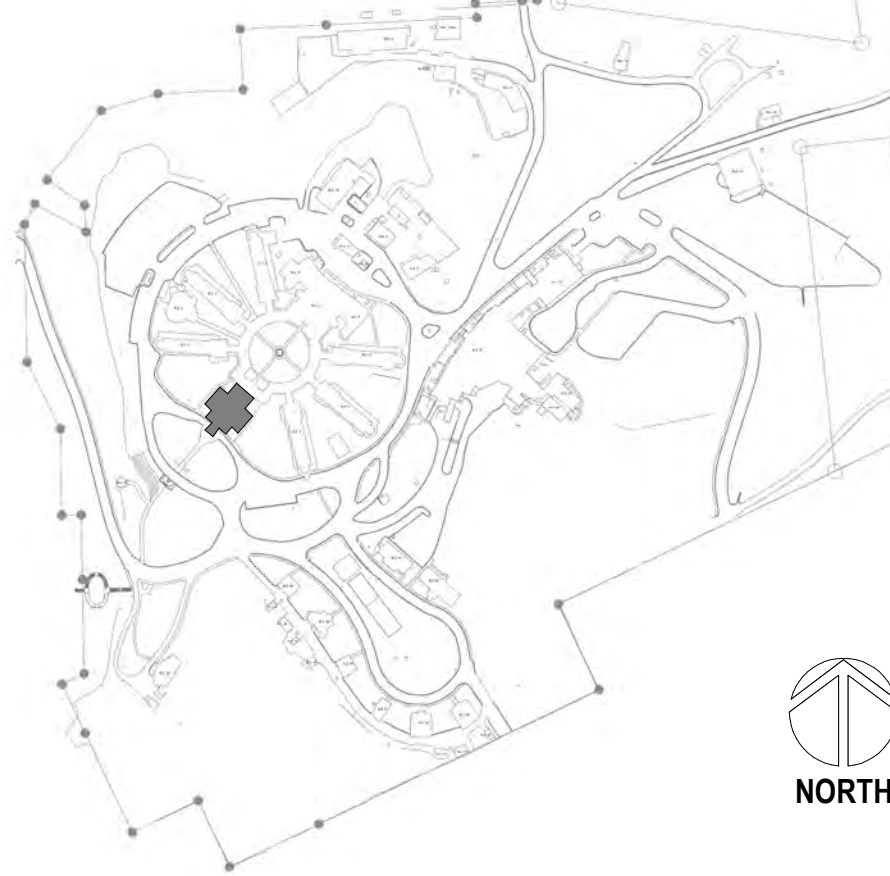


3 ENLARGED ROOM - B1E HVAC  
1/2" = 1'-0"

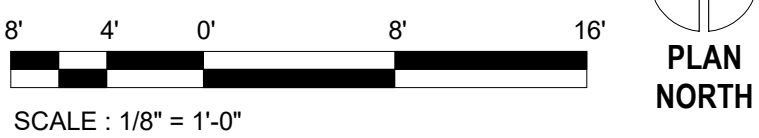


2 ENLARGED ROOM - B003A HVAC  
1/2" = 1'-0"

SITE LEGEND



1 BUILDING 1 BASEMENT PLAN - HVAC  
1/8" = 1'-0"



Revisions:	Date:

**CONSULTANT**

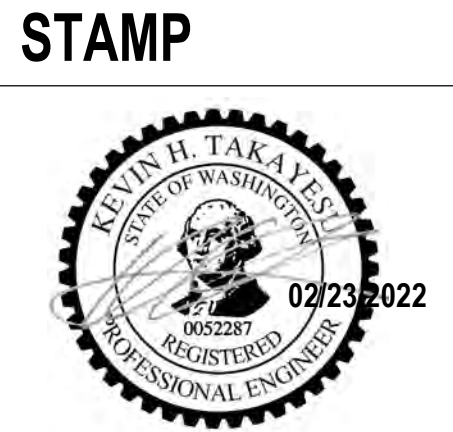
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**GDM**  
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ARCHITECTS - ENGINEERS



**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

U.S. Department of Veterans Affairs

DRAWING TITLE  
01-BASEMENT HVAC PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

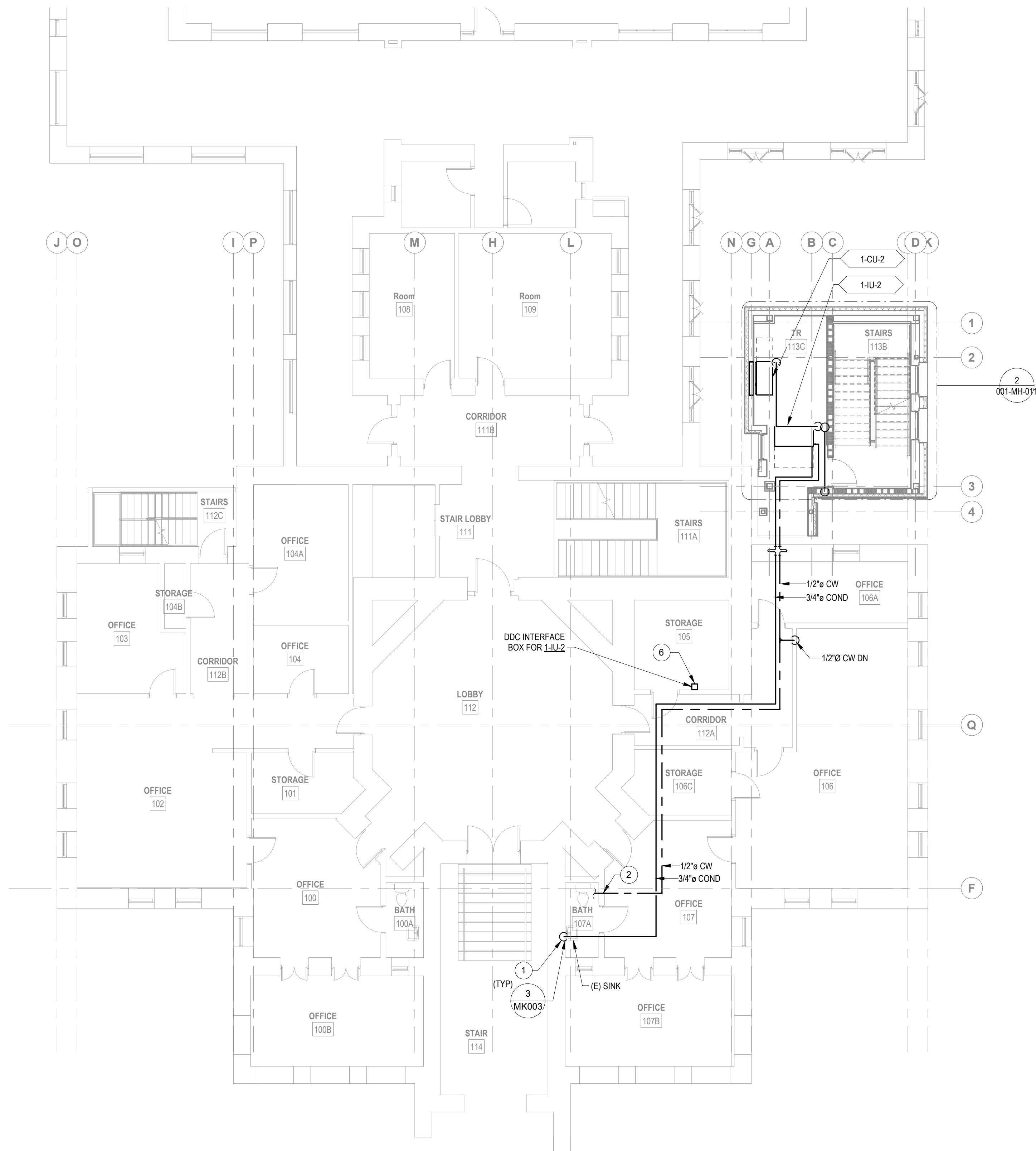
PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
01

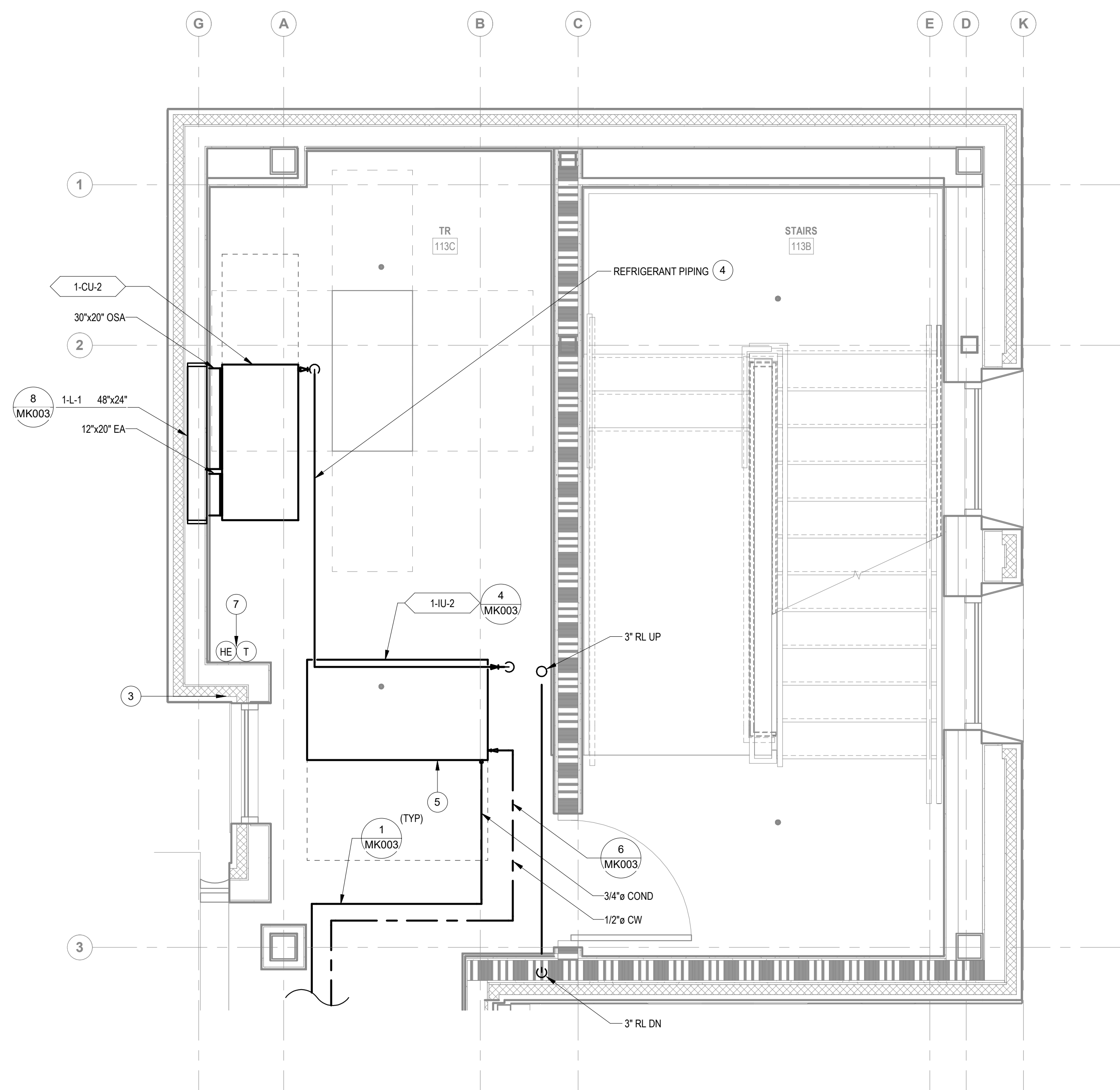
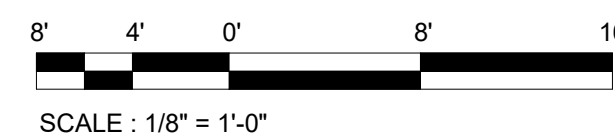
DRAWING NUMBER  
001-MH-0B1

## PLAN NOTES

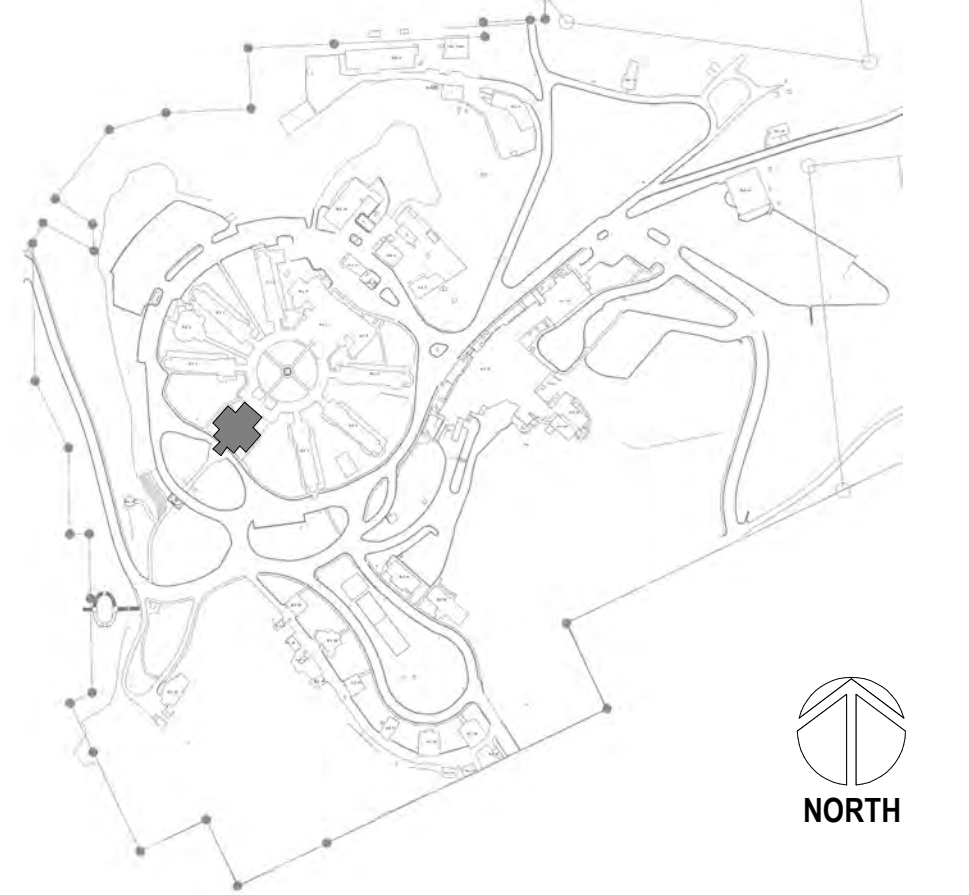
- 1 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRCAP  
FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY.  
FOR CONNECTION
- 2 CONNECT W/OW FOR INDOOR UNIT TO (C) IN W/OW THIS LOCATION. WHERE  
POSSIBLE MAKE CONNECTION IN CEILING. WHERE GELING W/OW CONNECTION IS  
NOT POSSIBLE, CONNECT TO PLUMBING FLOOR IN WALL. DEMOLISH  
AND PATCH WALL AS NECESSARY FOR PIPING PENETRATIONS.
- 3 PROVIDE FIRE CALLING FOR ALL NEW PIPE LINE PENETRATIONS OF RATED WALL  
ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL  
LOCATIONS.
- 4 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
REMOVE EXISTING REFRIGERANT PIPING AND REFRIGERANT EQUIPMENT.
- 5 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN INSTR  
AND TO DDC SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER  
CONNECTIONS.
- 6 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF  
CONNECT TO DDC SYSTEM.



1 BUILDING 1 FIRST FLOOR PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED ROOM - 113C HVAC  
1/2" = 1'-0"

[illegible]

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**GDM**  
ARCHITECTS + ENGINEERS

**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE

01-FIRST FLOOR HVAC PLANS

APPROVED:

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPINKLERED

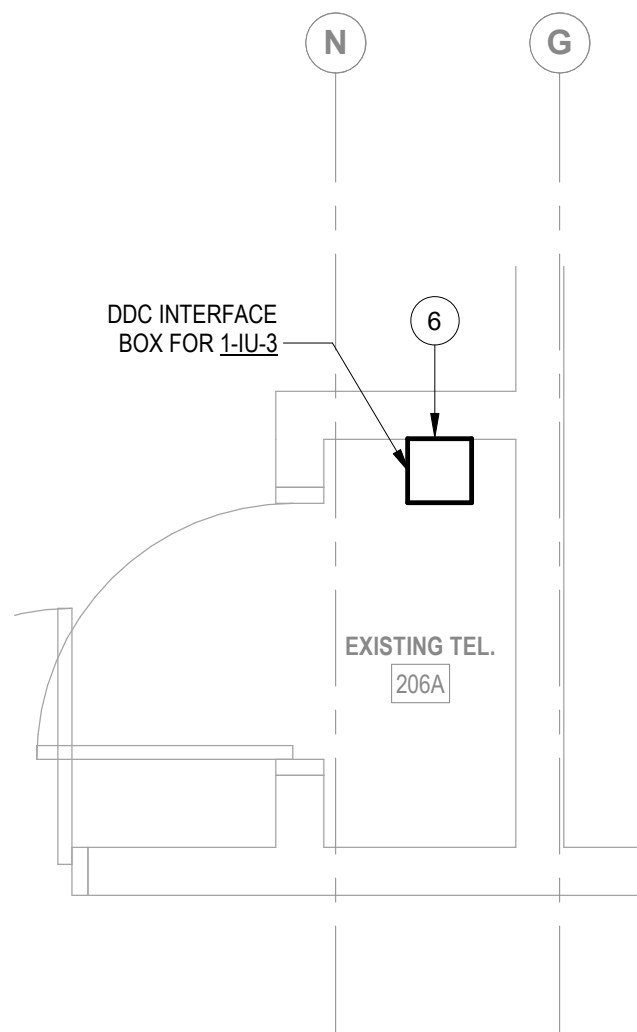
PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 01
DRAWING NUMBER 001-MH-011

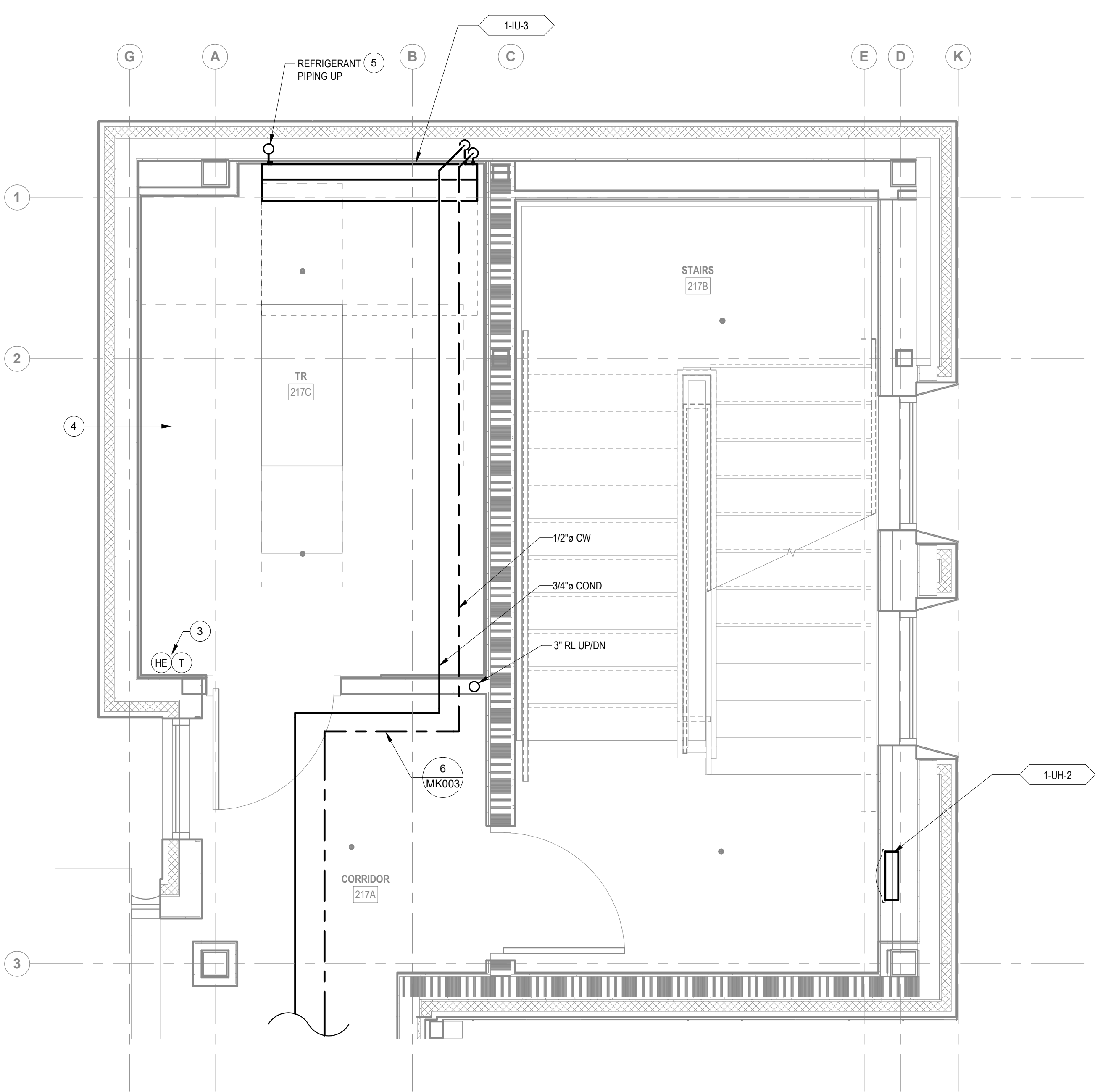


PLAN NOTES

- 1 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 2 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION. WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 3 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 4 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.
- 5 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 6 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN NEW TR AND TO DDC SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER CONNECTION.

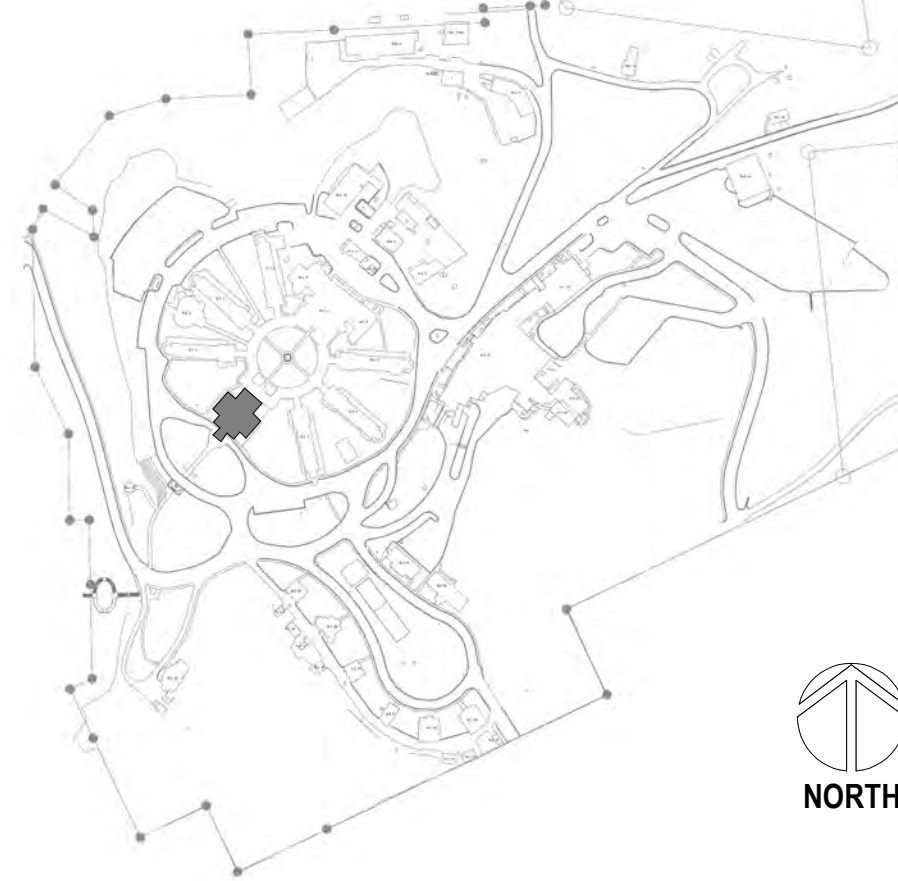


3 ENLARGED ROOM - 206A HVAC  
1/2" = 1'-0"

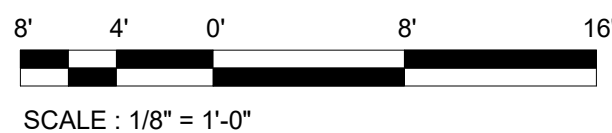


2 ENLARGED ROOM - 217C HVAC  
1/2" = 1'-0"

SITE LEGEND



1 BUILDING 1 SECOND FLOOR PLAN - HVAC  
1/8" = 1'-0"



Revisions:	Date:

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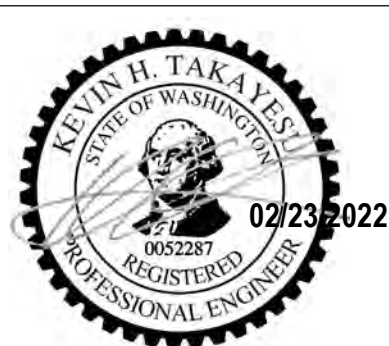


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PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

DRAWING TITLE  
01-SECOND HVAC PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA  
ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

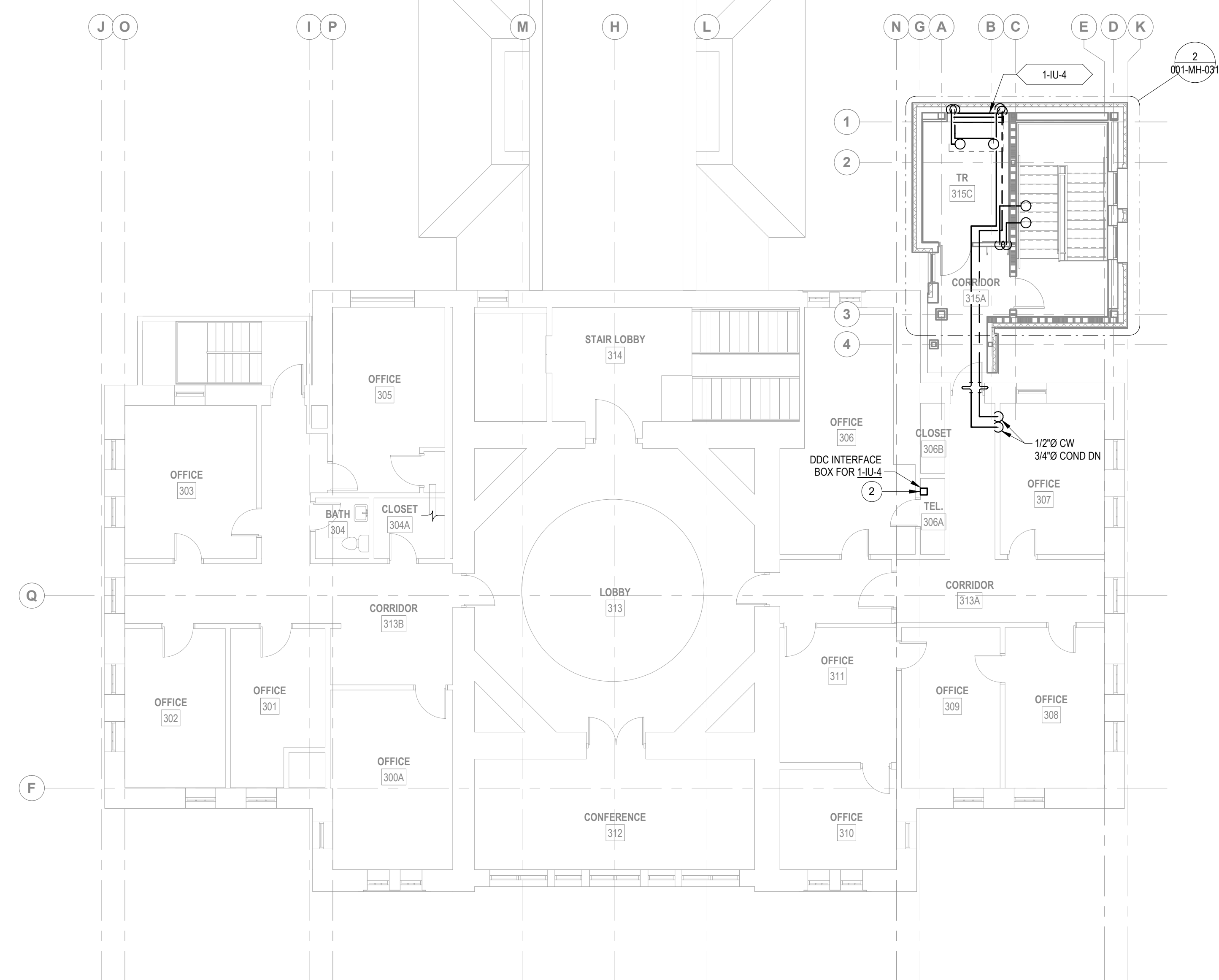
DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702  
BUILDING NUMBER  
01

DRAWING NUMBER  
001-MH-021

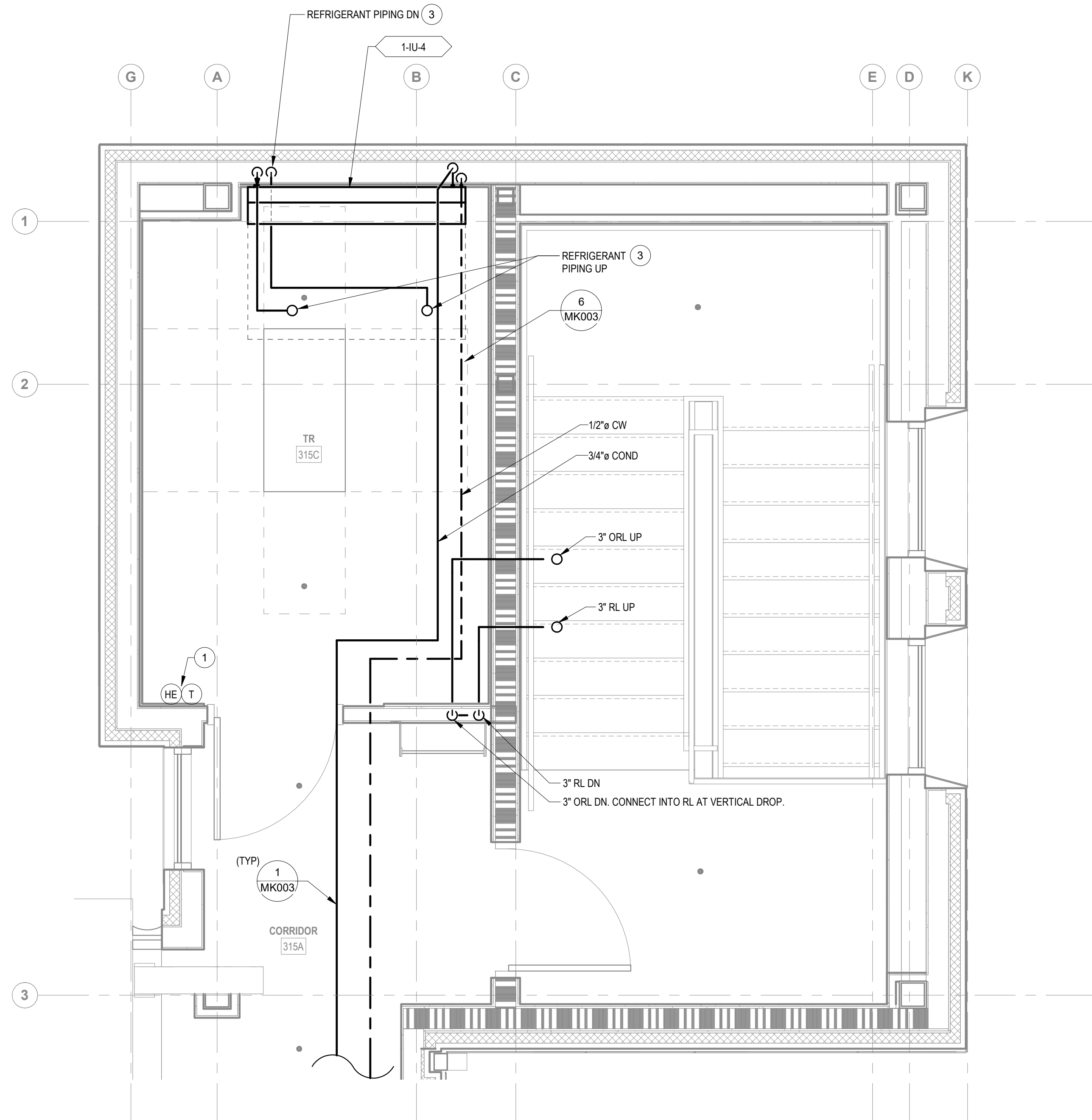
## PLAN NOTES

- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 2 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN NEW TR AND TO DDC SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER CONNECTION.
- 3 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.



1 BUILDING 1 THIRD FLOOR PLAN - HVAC

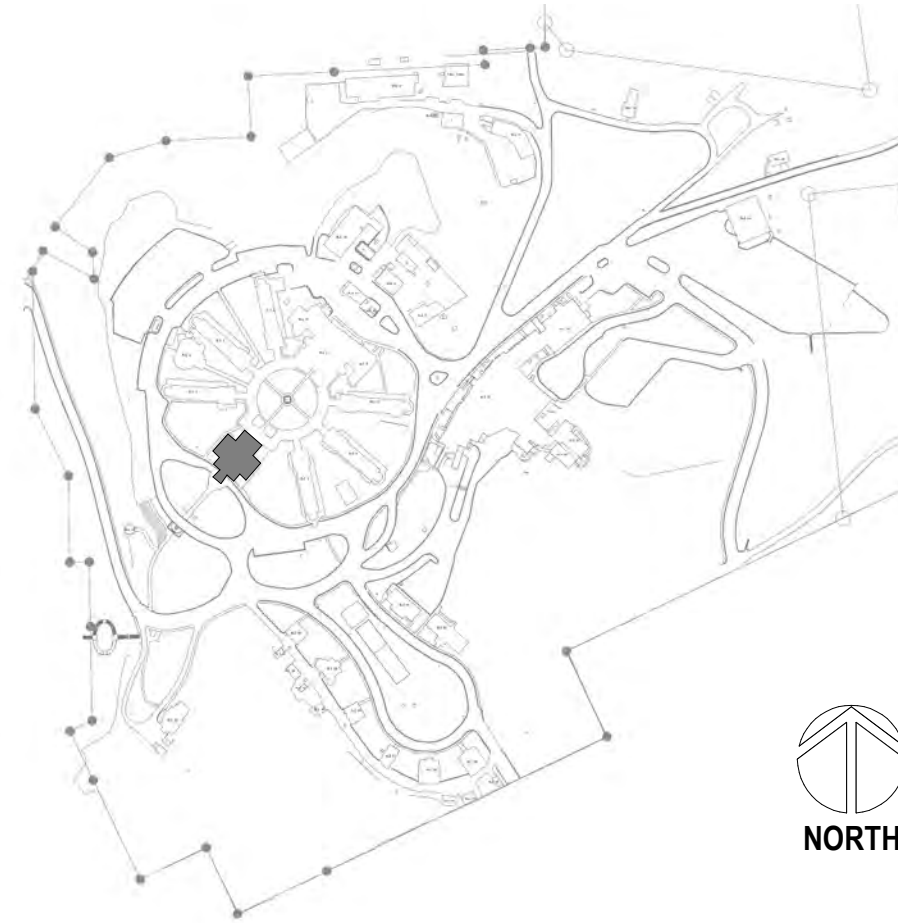
1/8" = 1'-0"

8' 4' 0' 8' 16'  
SCALE : 1/8" = 1'-0"

2 ENLARGED ROOM - 315C HVAC

1/2" = 1'-0"

## SITE LEGEND



Revisions:	Date:

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## STAMP

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

## DRAWING TITLE

01-THIRD FLOOR HVAC PLANS

## APPROVED:

## PHASE

100% CD FINAL SOLUTION

## FLS

FULLY SPINKLERED

## PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

## LOCATION

HOT SPRINGS, SOUTH DAKOTA

## ISSUE DATE

02/23/2022

## CHECKED BY

KHT

## DRAWN BY

KBT

## PROJECT NUMBER

568A4-21-702

## BUILDING NUMBER

01

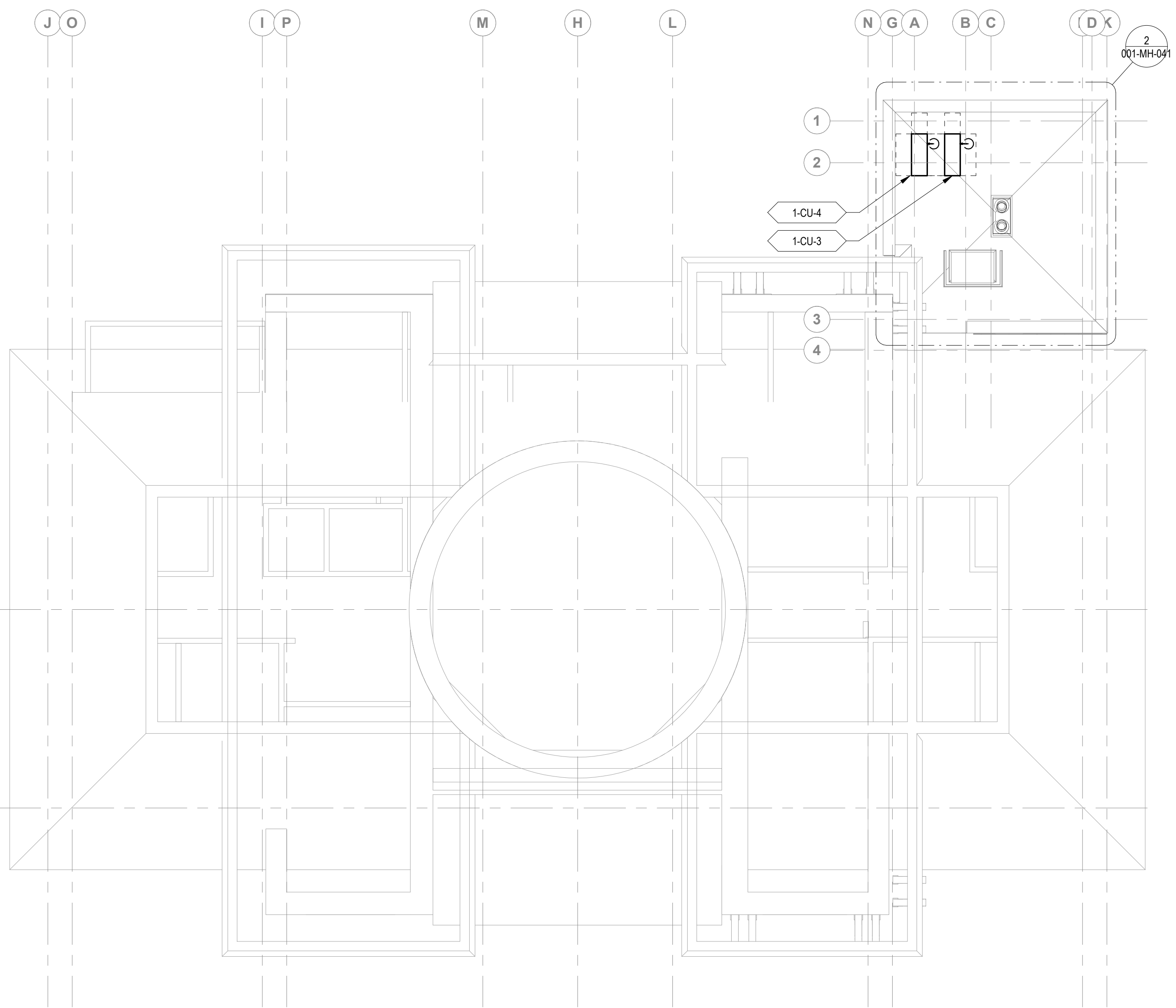
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001-MH-031

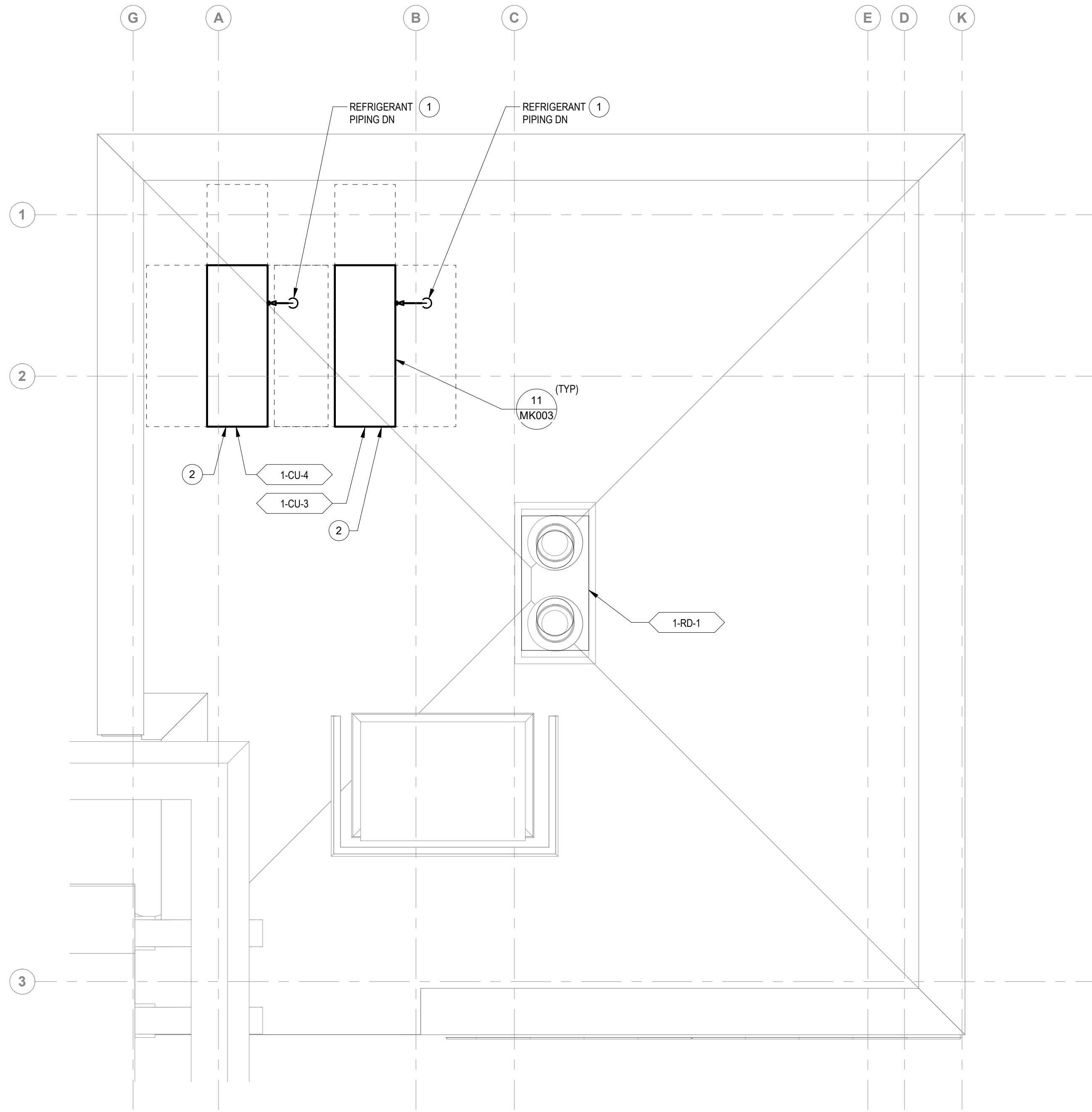
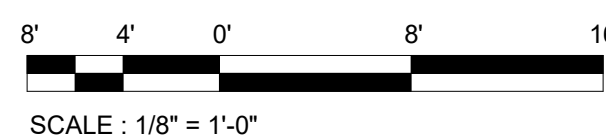


PLAN NOTES

1 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
2 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL EQUIPMENT ROOF SUPPORT DETAIL.

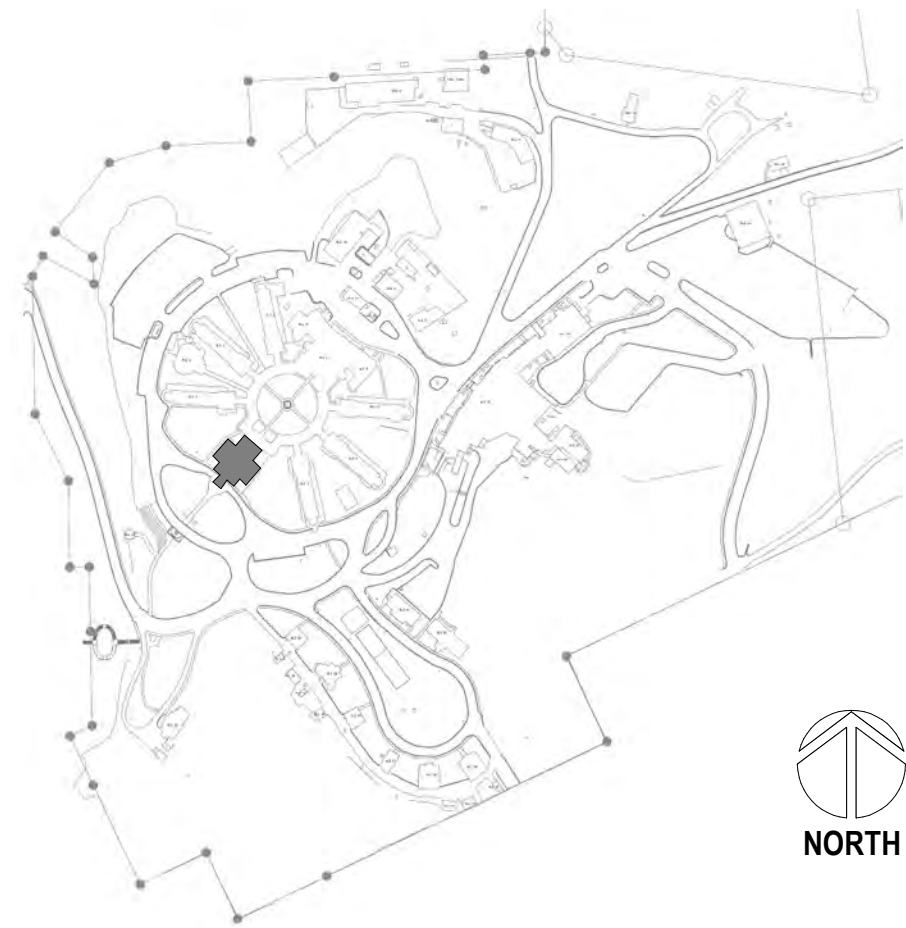


1 BUILDING 1 ROOF PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED ROOM - ROOF HVAC  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

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PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)



DRAWING TITLE  
01-ROOF HVAC PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702  
BUILDING NUMBER  
01

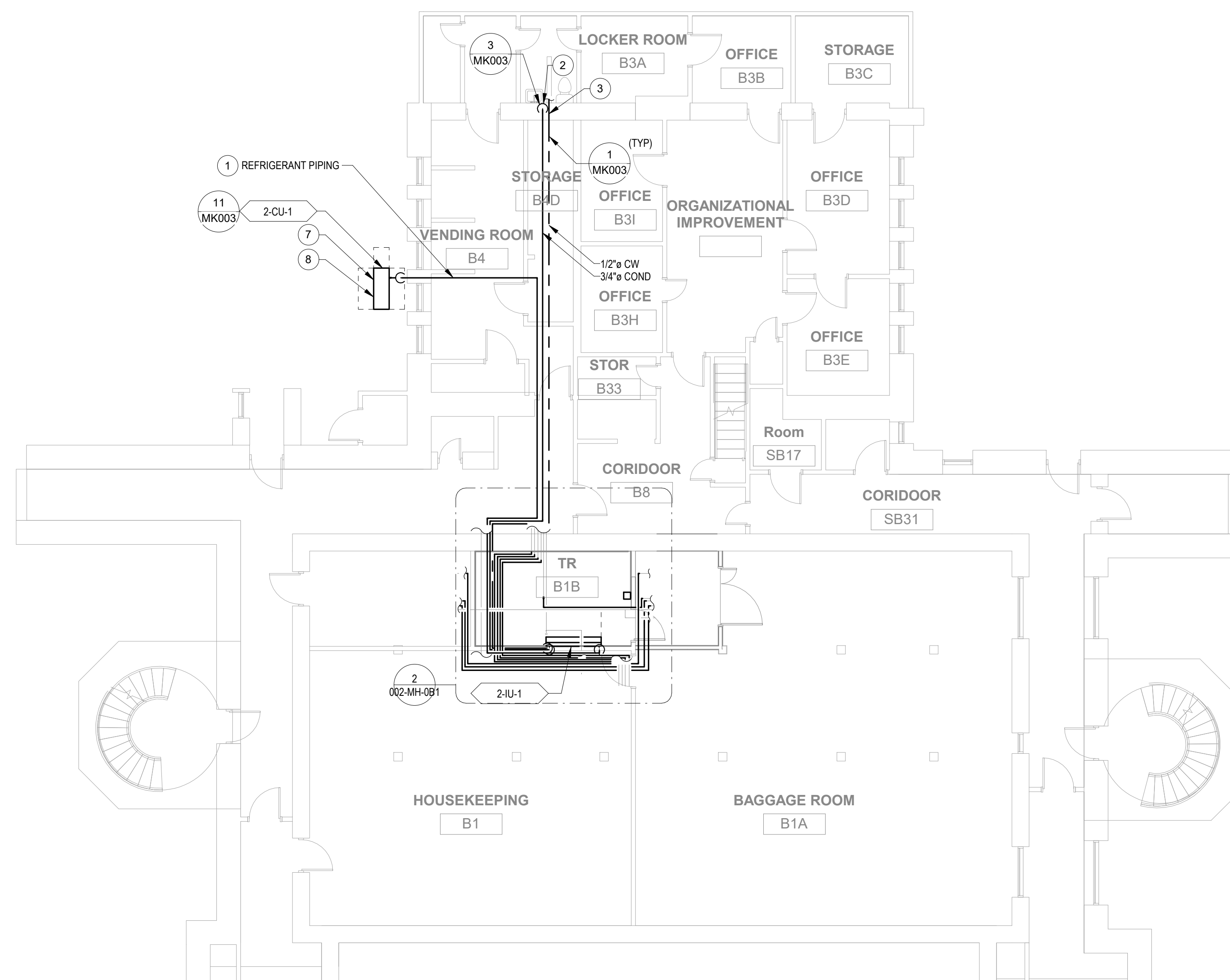
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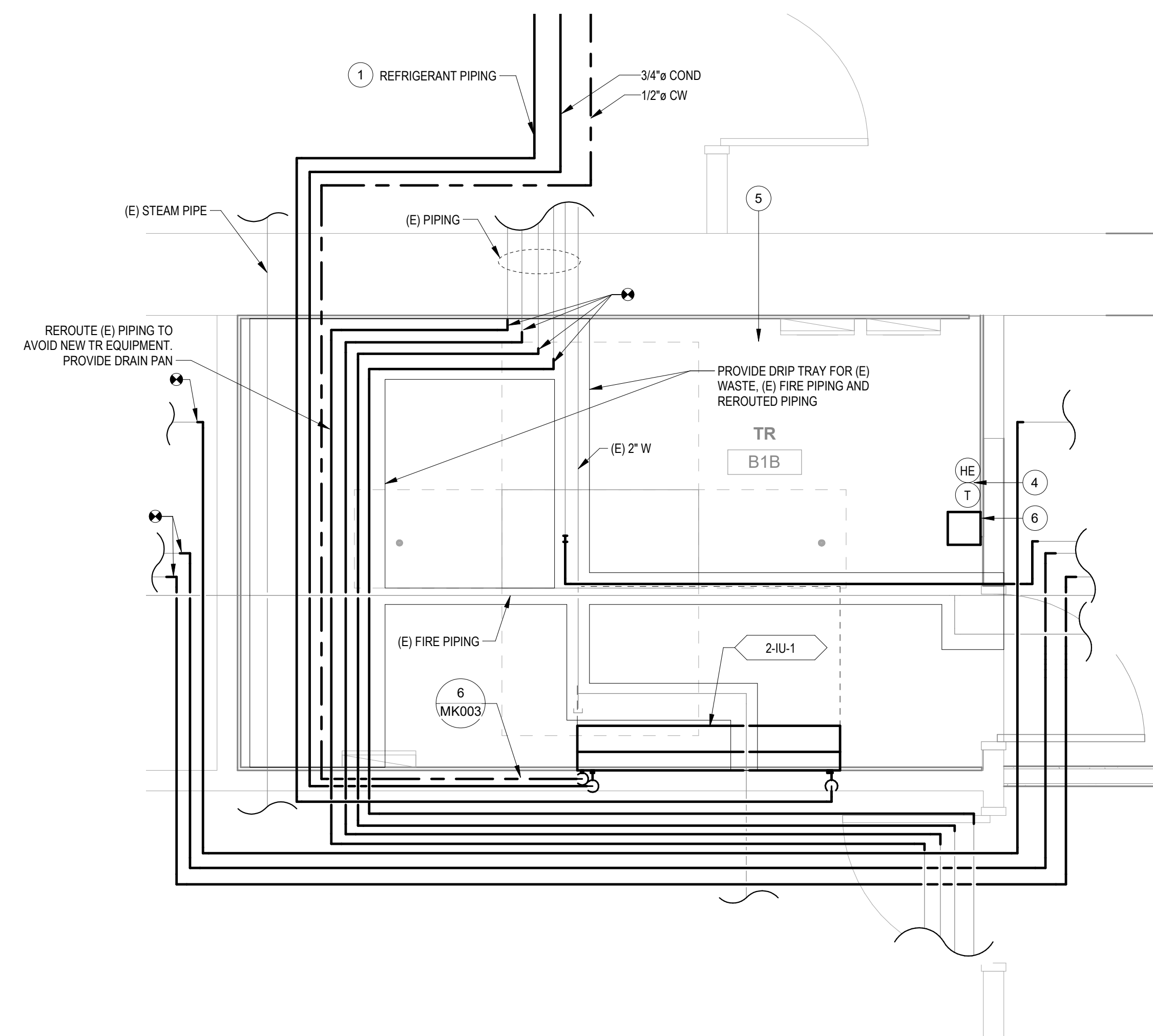
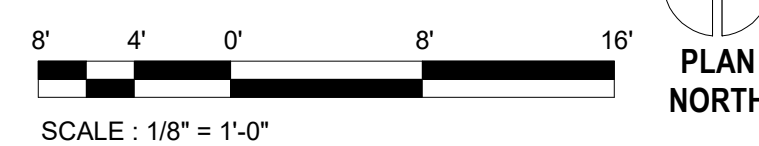
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## PLAN NOTES

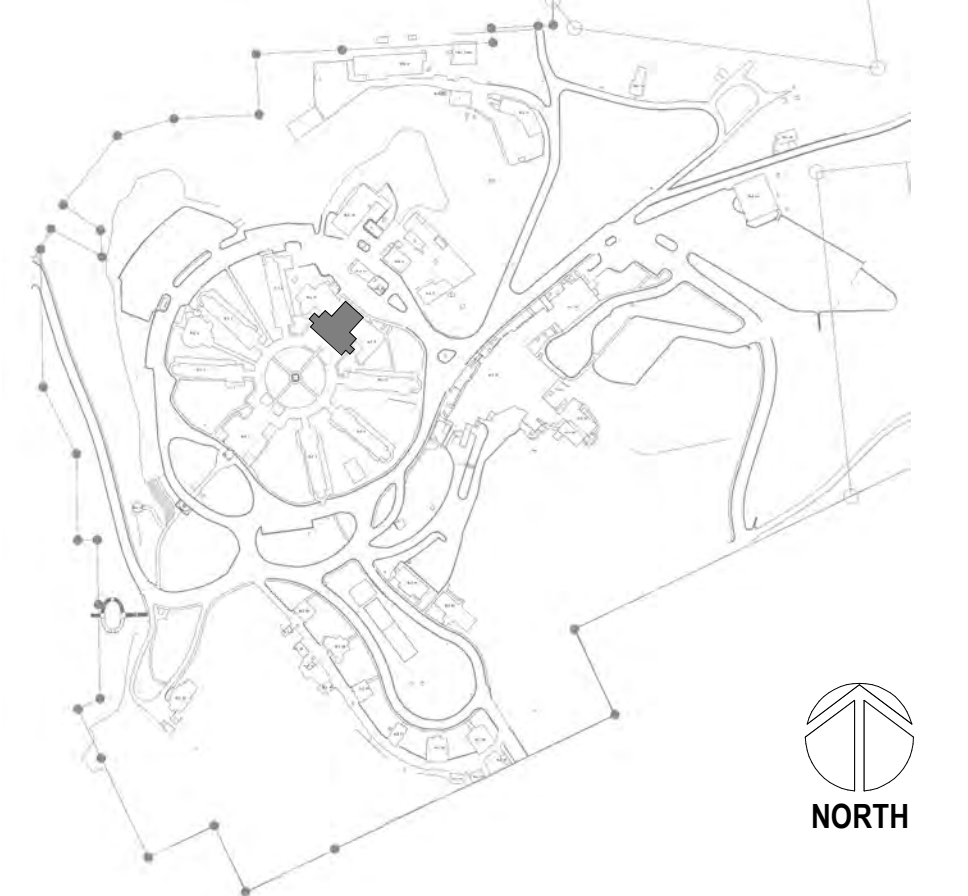
- 1 REFRIGERANT PIPING SHOWS REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
2  
3 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING  
4 WITH ACCESS HATCH FOR INDOOR UNIT AND PAV IN AS NECESSARY FOR PIPE CONNECTION.  
5 CONNECT CUP FOR INDOOR UNIT TO IG IN THIS LOCATION, WHERE POSSIBLE MAKE  
6 CONNECTION IN CEILING. WIRE CUP FOR INDOOR UNIT AND PAV IN AS NECESSARY  
7 TO PLUMBING FUTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR  
8 PIPE CONNECTION.  
9  
10 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC  
11 SYSTEM.  
12  
13 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RAISED FLOOR ASSEMBLY.  
14 REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.  
15 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN THIS SPACE AND  
16 TO DDC SYSTEM. REFER TO MECHANICAL SCHEDULE FOR DDC CONNECTION.  
17 SEE CIVIL SHEET C1002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.  
18  
19 SEE ARCHITECTURAL SHEET 01-00-006 FOR MECHANICAL UNIT PROTECTION DETAIL.



1 BUILDING 2 BASEMENT PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED PLAN - ROOM B1B HVAC  
1/2" = 1'-0"

[illegible]

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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE
02-BASEMENT HVAC PLANS
APPROVED:

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

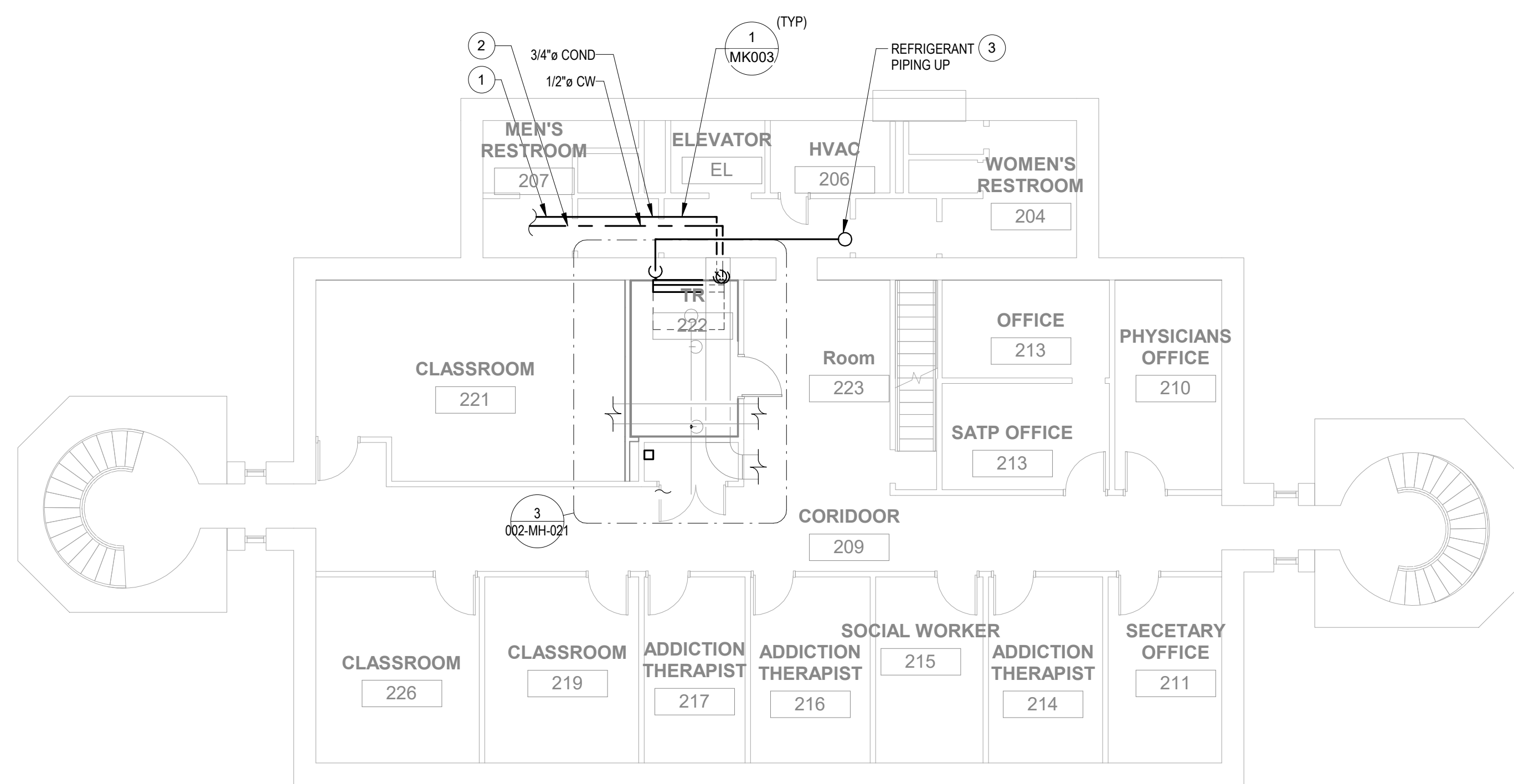
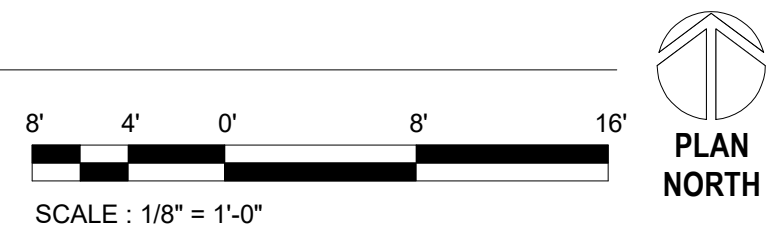
PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 02
DRAWING NUMBER 002-MH-0B1



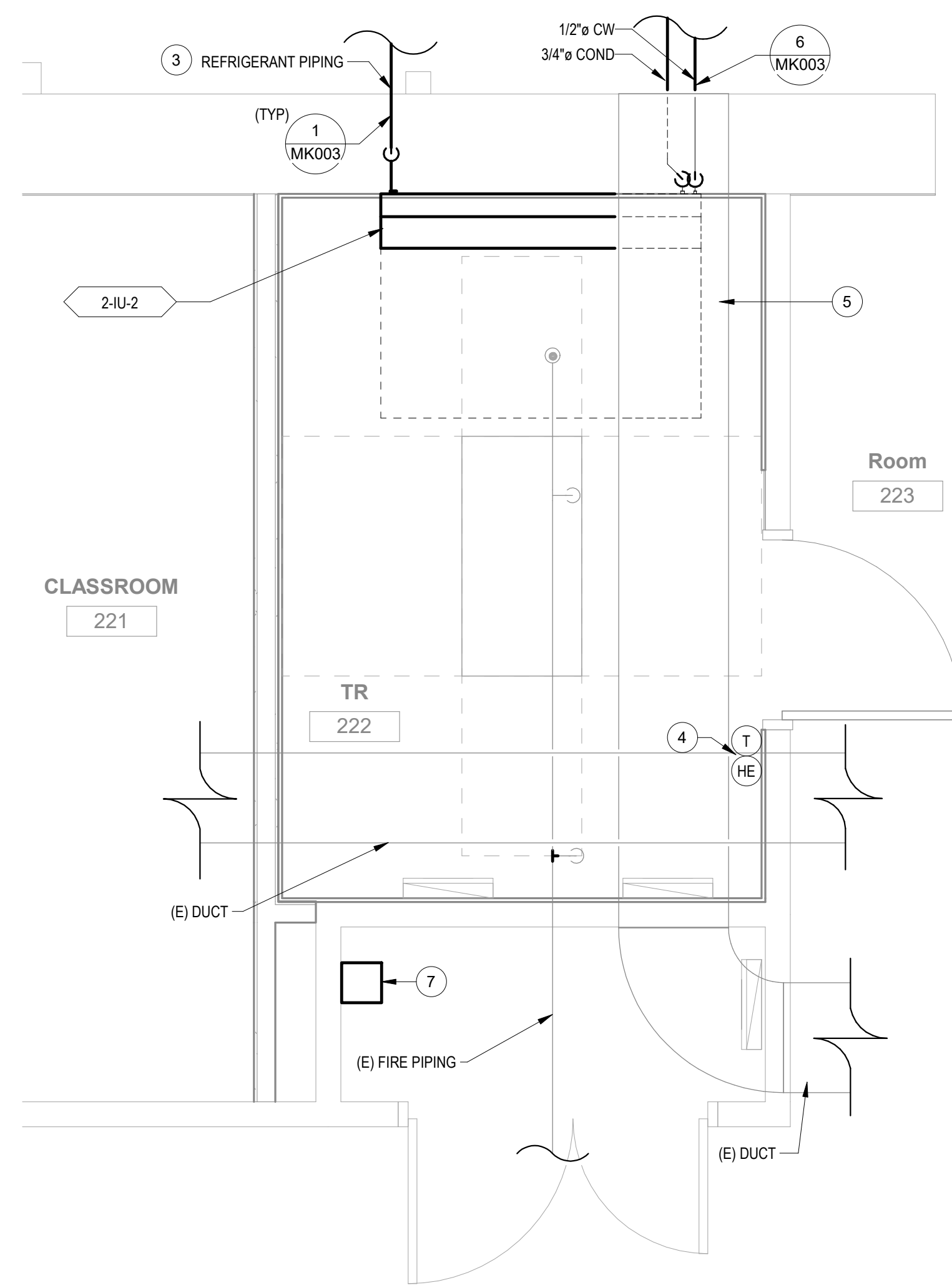
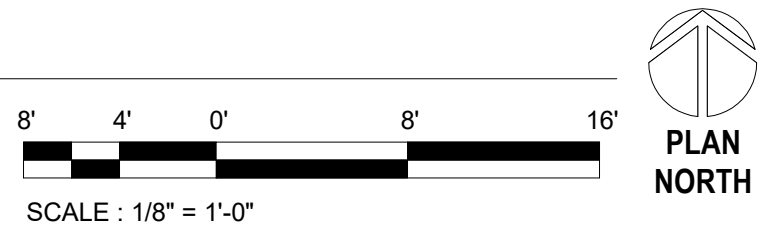
## PLAN NOTES

- 1 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING  
WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 2 CONNECT CW FOR INDOOR UNIT TO IE CW IN THIS LOCATION. WHERE POSSIBLE MAKE  
CONNECTION IN CEILING. WHERE CEILING CONNECTION IS NOT FEASIBLE, CONNECT  
TO PLUMBING FLOOR CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR  
PIPE CONNECTION.
- 3 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 4 PROVIDE HUMIDITY SENSOR AND THERMISTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC  
SYSTEM.
- 5 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL ASSEMBLY.  
REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.
- 6 SEE ARCHITECTURAL SHEET 03-G106 FOR MECHANICAL EQUIPMENT ROOF SUPPORT  
DETAIL.
- 7 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN THIS SPACE AND  
TO DDC SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER CONNECTION.

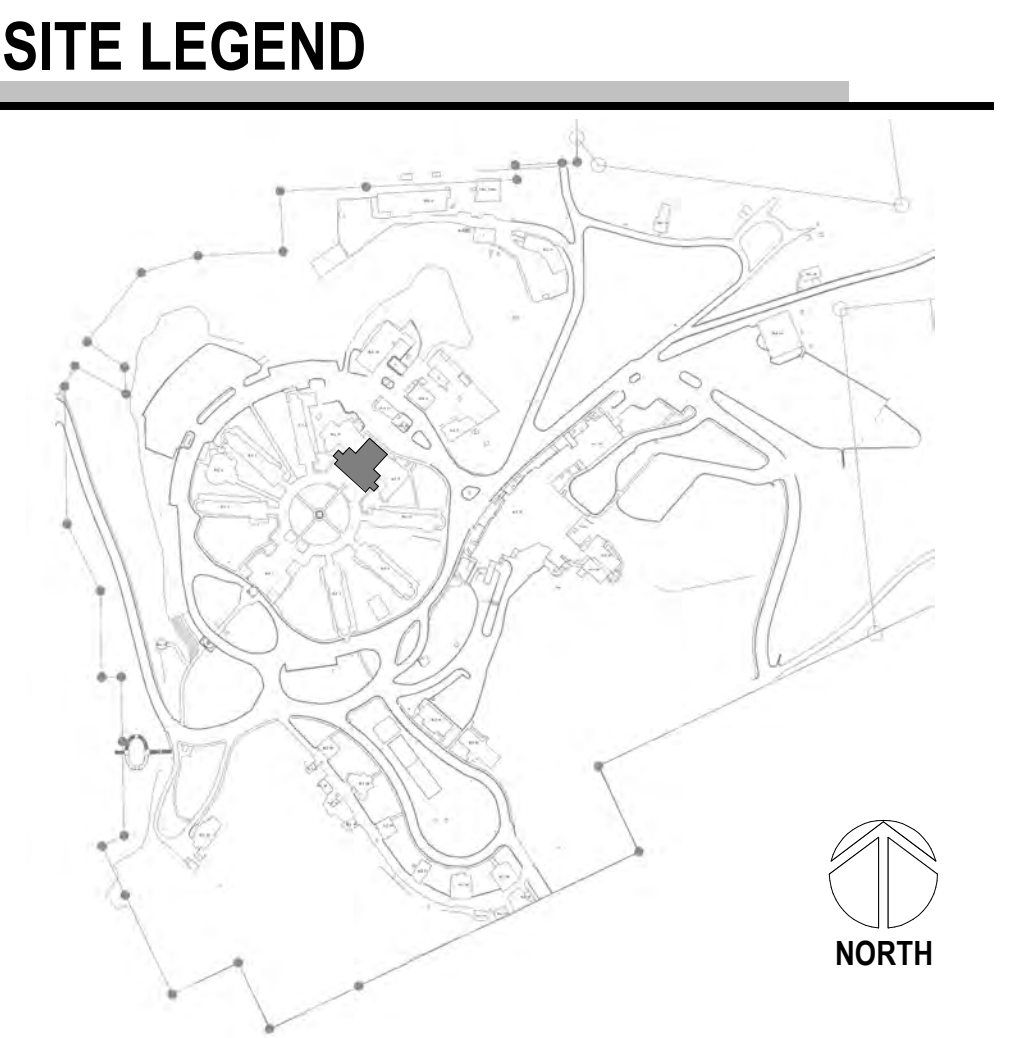
**BUILDING 2 ROOF PLAN - HVAC**  
1/8" = 1'-0"



1 BUILDING 2 SECOND FLOOR PLAN - HVAC  
1/8" = 1'-0"



3 ENLARGED PLAN - ROOM 222 HVAC  
1/2" = 1'-0"

[illegible]

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**ARCHITECT/ENGINEER OF RECORD**

ARCHITECT

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ADAM GODDIN, PE

The logo for GDM Architects + Engineers is a black rectangle with a thin white border. Inside, the letters "GDM" are prominently displayed in a large, white, serif font. Below "GDM", the words "ARCHITECTS + ENGINEERS" are written in a smaller, white, sans-serif font.

**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE
02-SECOND FLOOR AND ROOF HVAC PLANS
APPROVED:

PHASE
100% CD FINAL SOLUTION
FLS
FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

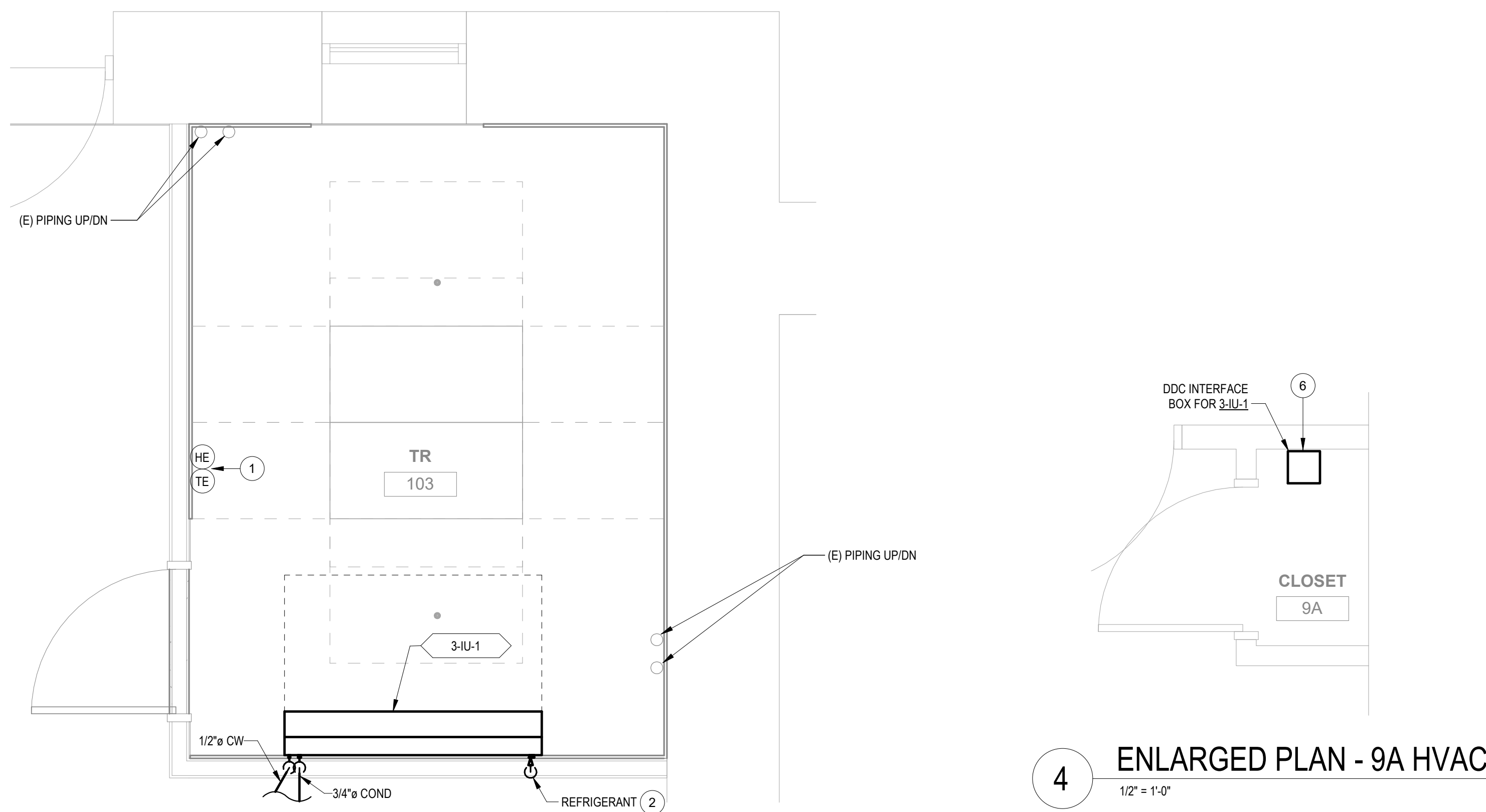
PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
02

DRAWING NUMBER  
002-MH-021

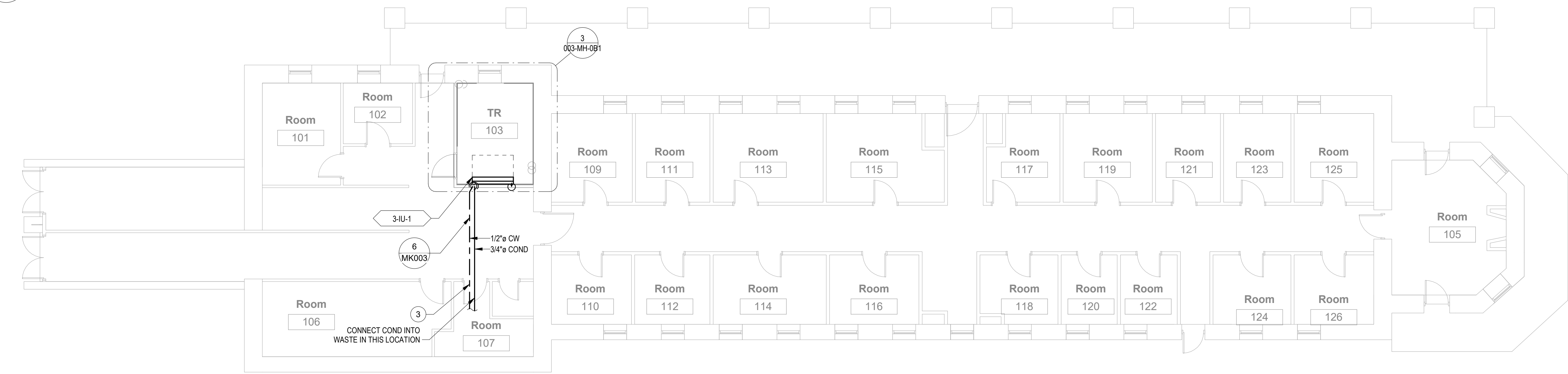
## PLAN NOTES

- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.  
2 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
3 CONNECT CW FOR INDOOR UNIT TO [E] IN WALL IN THIS LOCATION, WHERE POSSIBLE MAKE  
4 CONNECTION IN CEILING, WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO  
5 PLUMBING FIXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE  
6 CONNECTION.  
7  
8 SEE ARCHITECTURAL SHEET 00-G-006 FOR MECHANICAL UNIT PROTECTION DETAIL.  
9 SEE CIVIL SHEET CJ0002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.  
10 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN NEW TR AND TO DDC  
11 SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER CONNECTION.

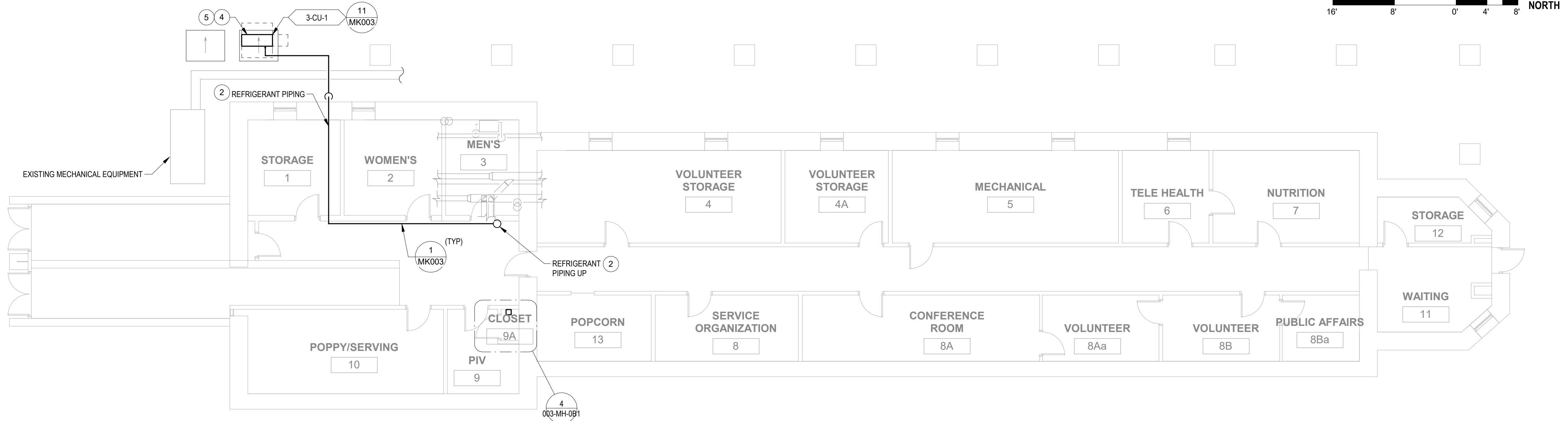


4 ENLARGED PLAN - 9A HVAC

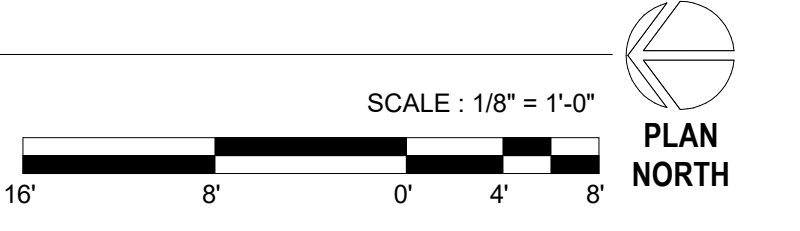
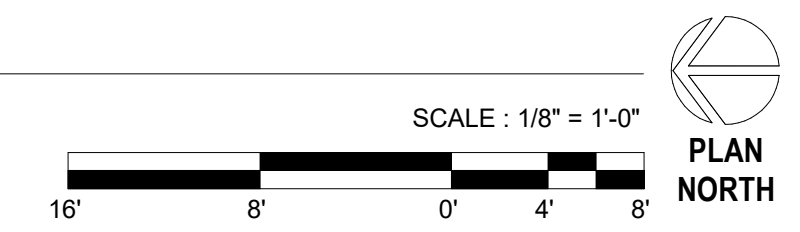
3 ENLARGED ROOM - 103 HVAC



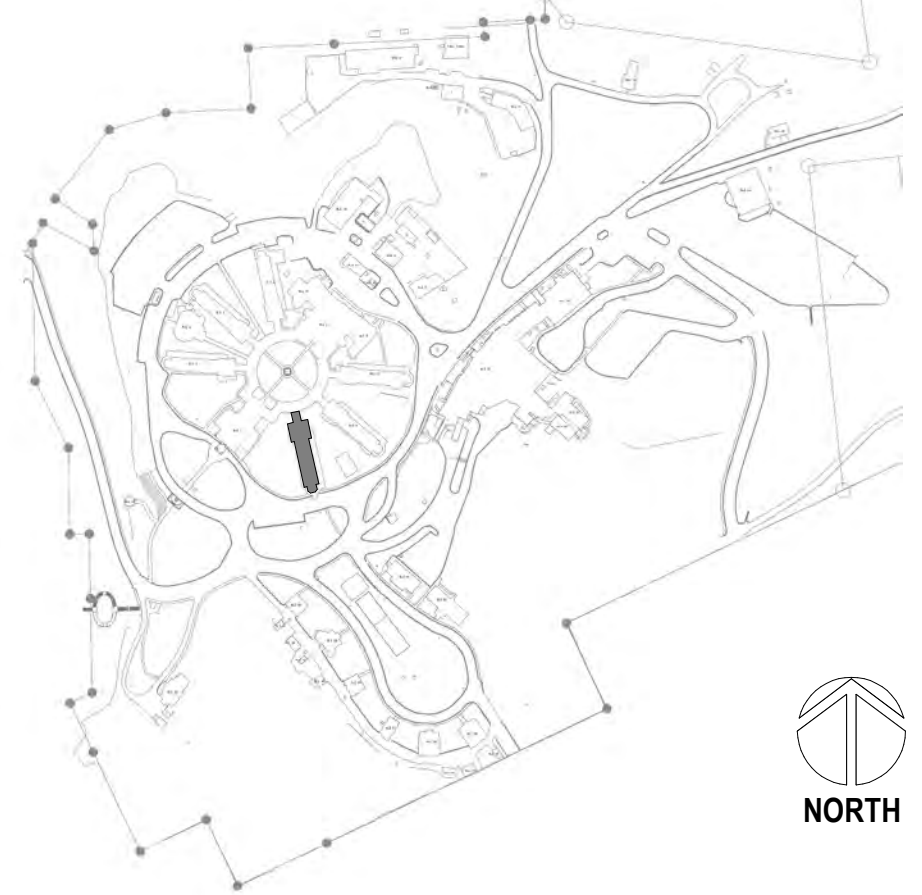
2 BUILDING 3 FIRST FLOOR PLAN - HVAC



1 BUILDING 3 BASEMENT PLAN - HVAC



## SITE LEGEND

[illegible]

**CONSULTANT**

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JESSE BARKSDALE

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**STAMP**



KEVIN H. TAKAVES  
STATE OF WASHINGTON  
REGISTERED  
PROFESSIONAL ENGINEER  
0052287  
02/23/2022

**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE
03-BASEMENT AND FIRST FLOOR HVAC PLANS
APPROVED:

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

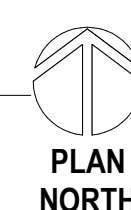
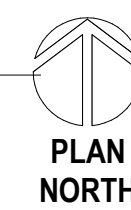
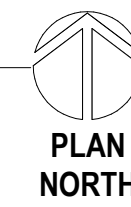
PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
03

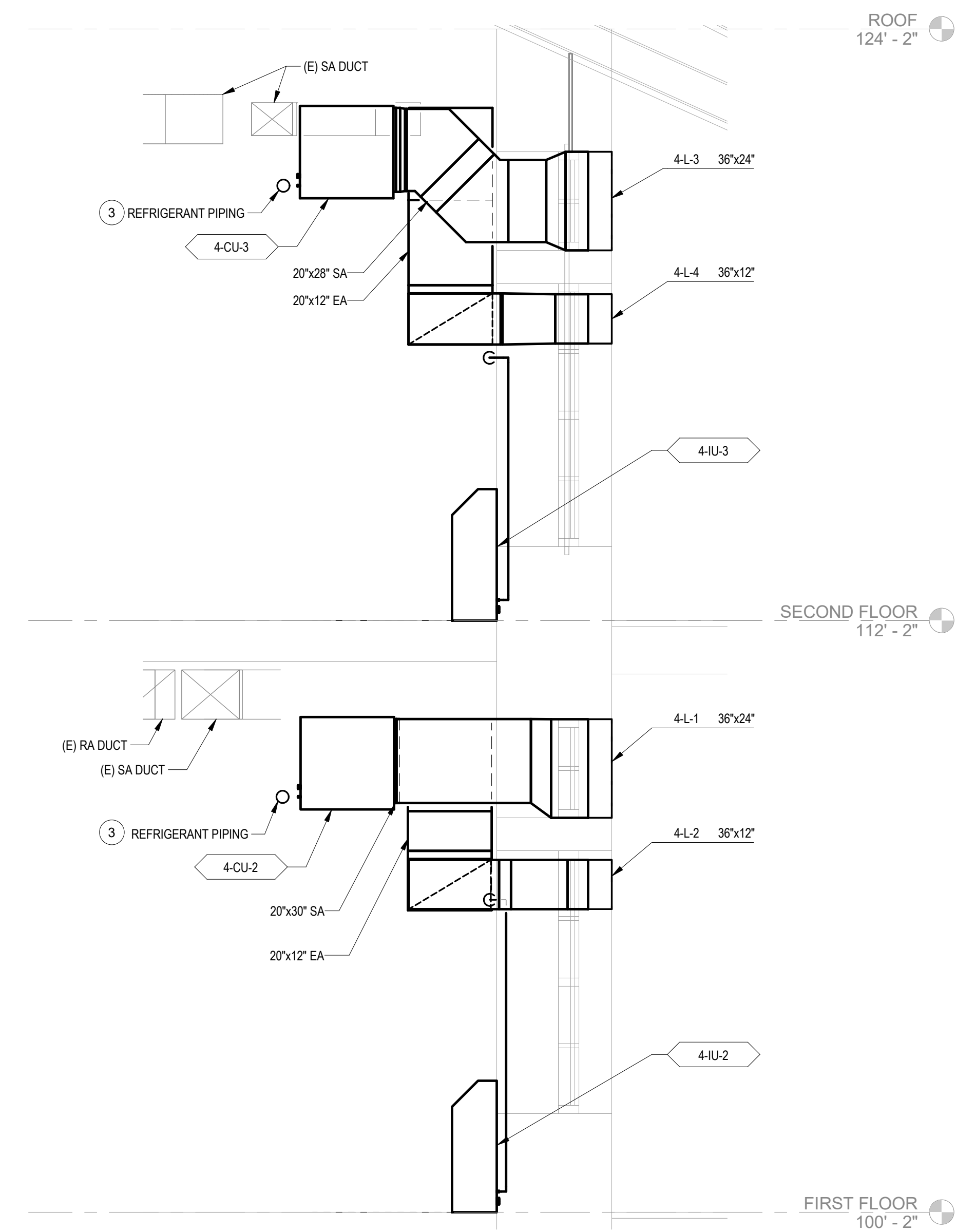
DRAWING NUMBER  
003-MH-0B1



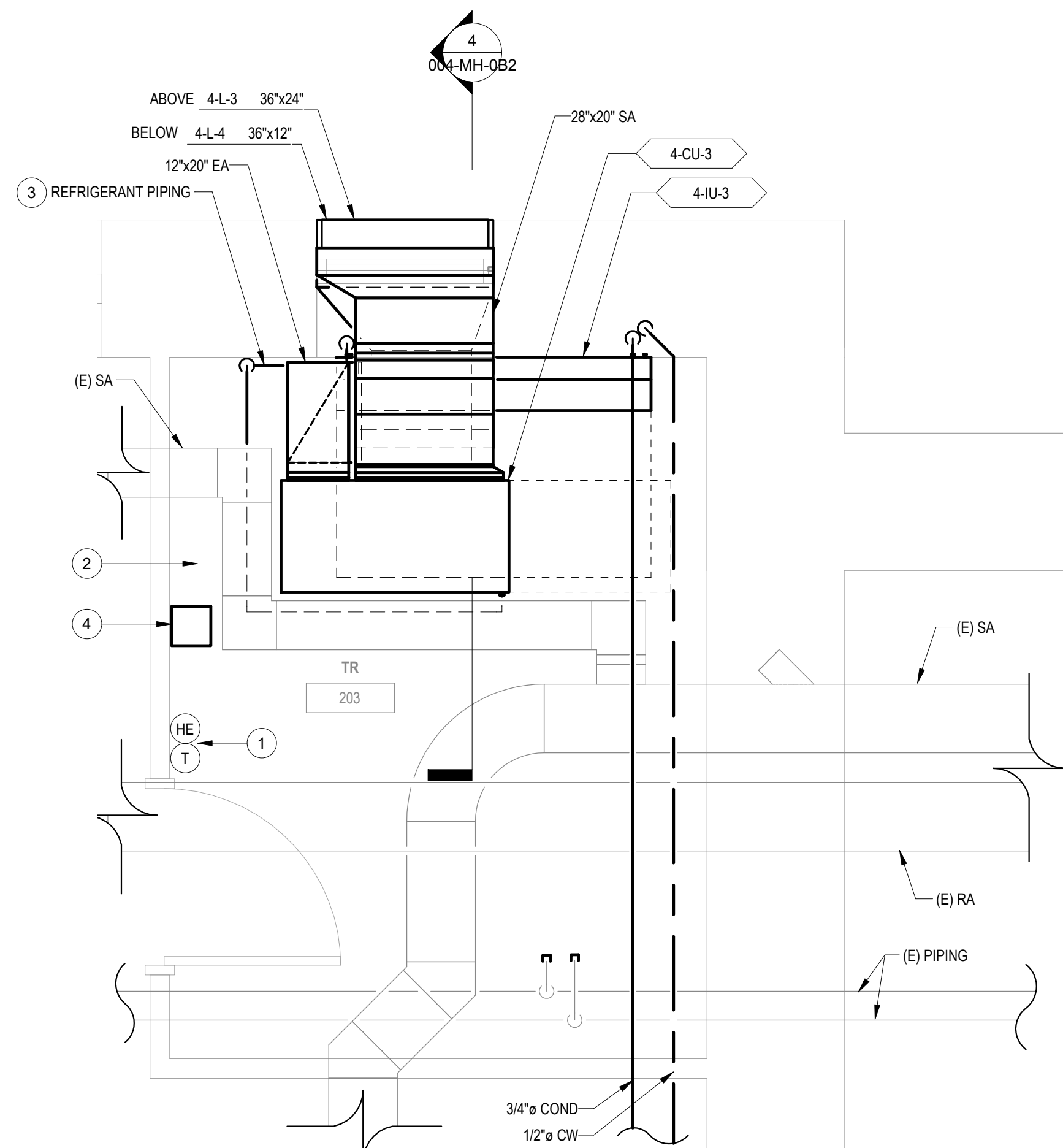


**NORTH**

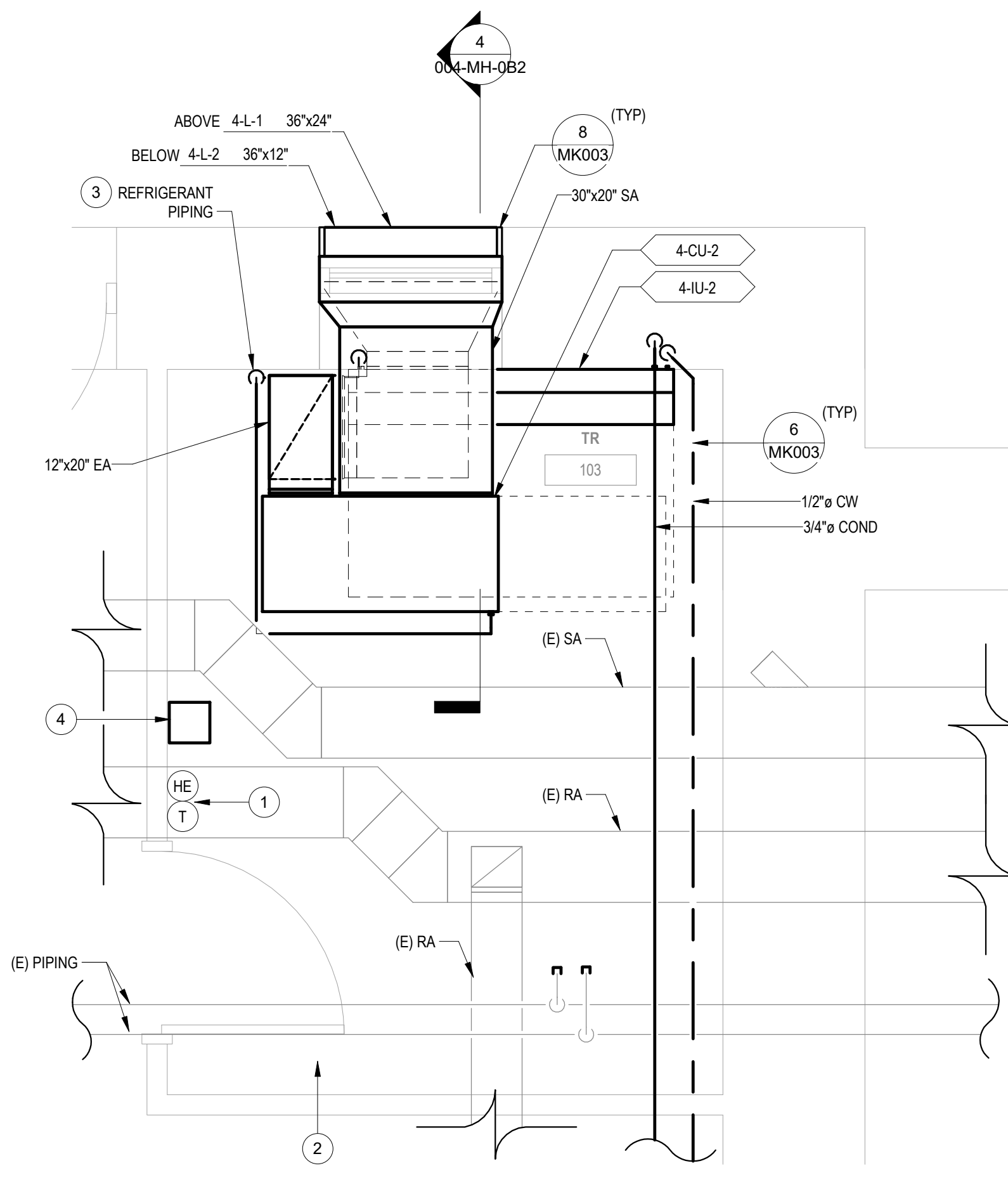
PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
04
DRAWING NUMBER
004-MH-0B1



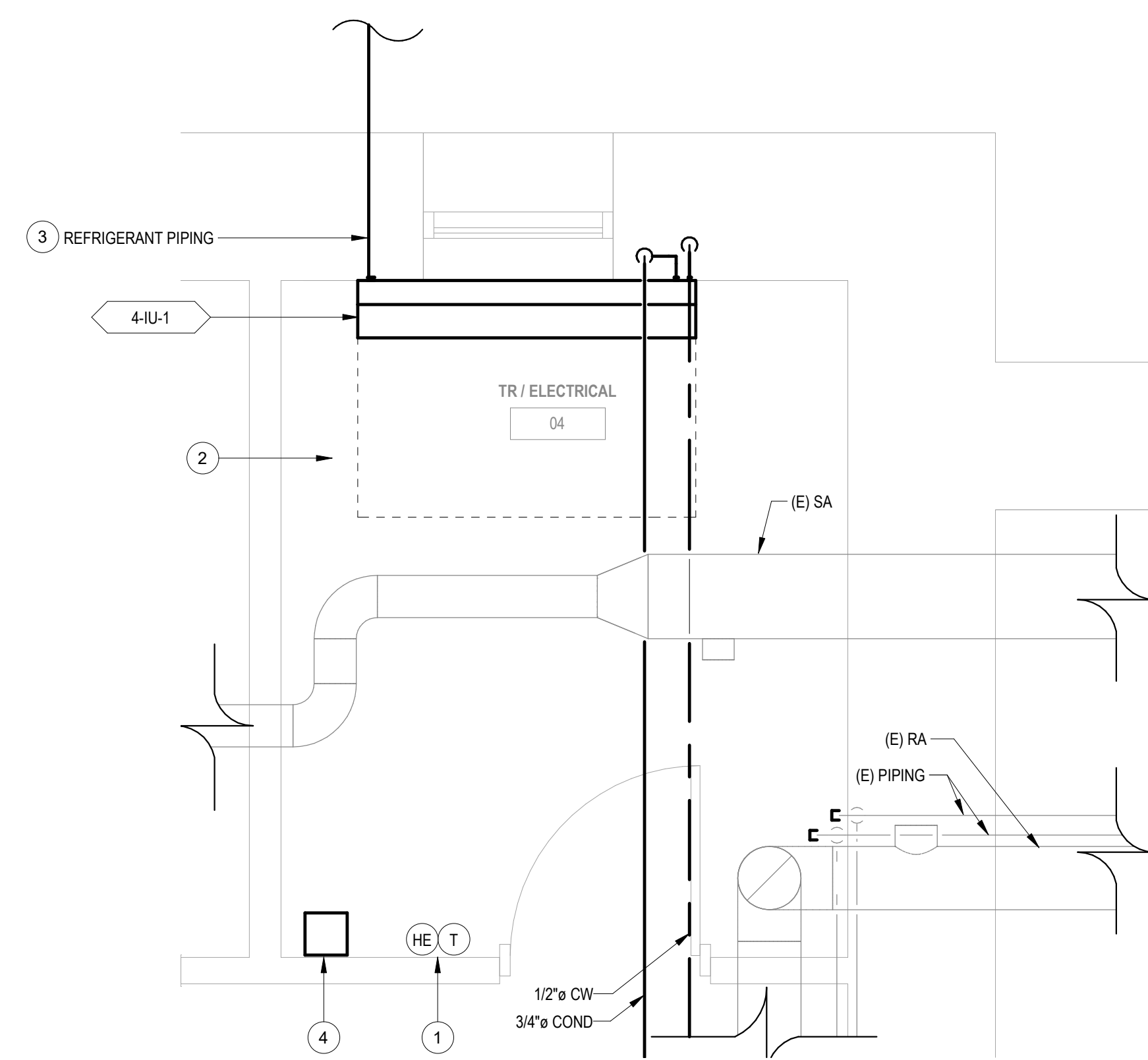
## 4 HVAC SECTION



1 ENLARGED ROOM - 203 HVAC

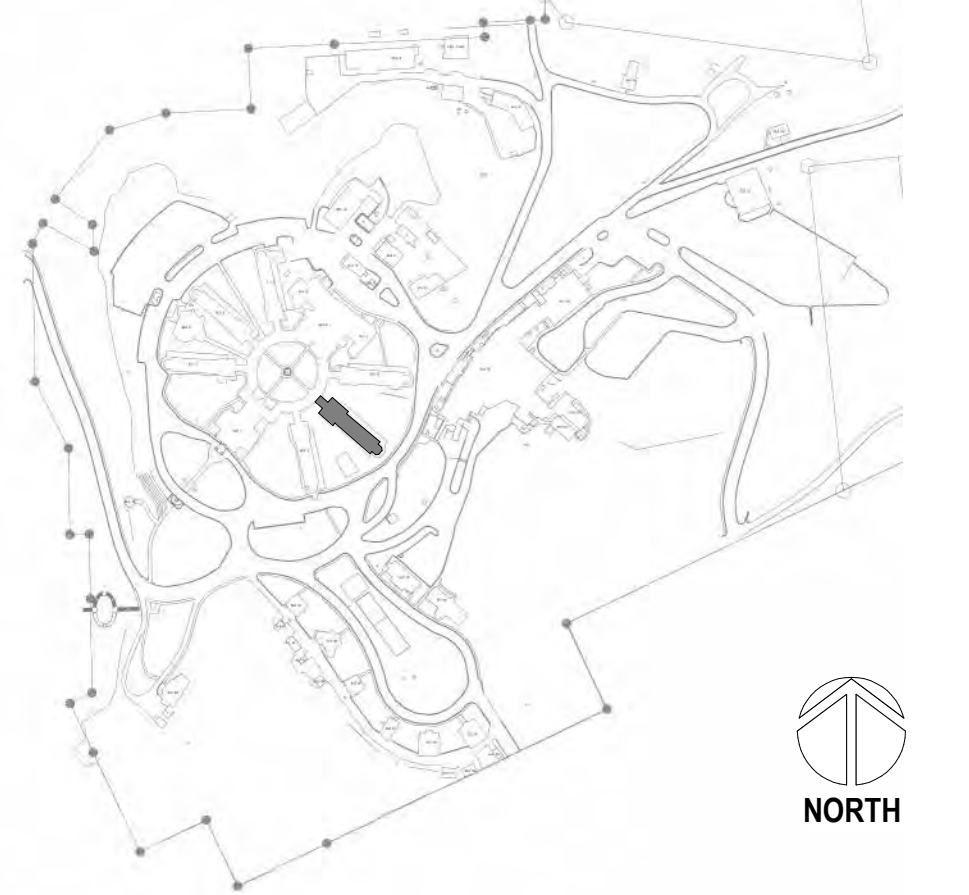


2 ENLARGED ROOM - 103 HVAC



2 ENLARGED ROOM - 04 HVAC

## SITE LEGEND

[illegible]

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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

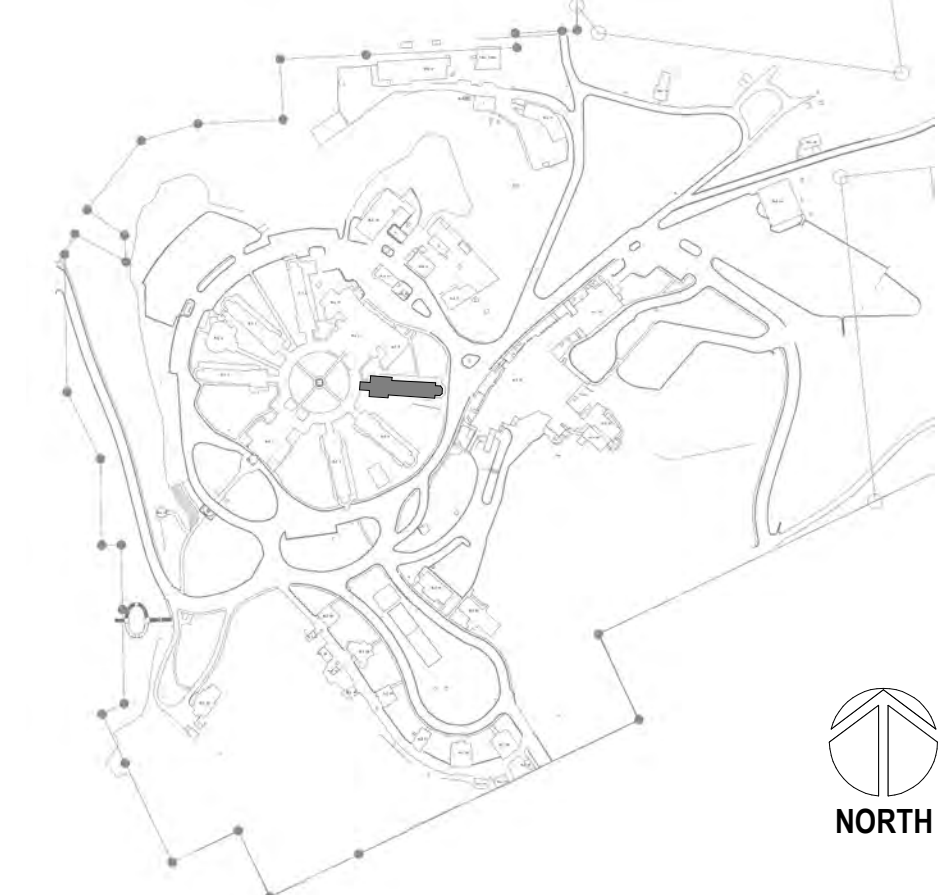
DRAWING TITLE	
04-ENLARGED HVAC PLANS	
APPROVED:	

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
04
DRAWING NUMBER
004-MH-0B2



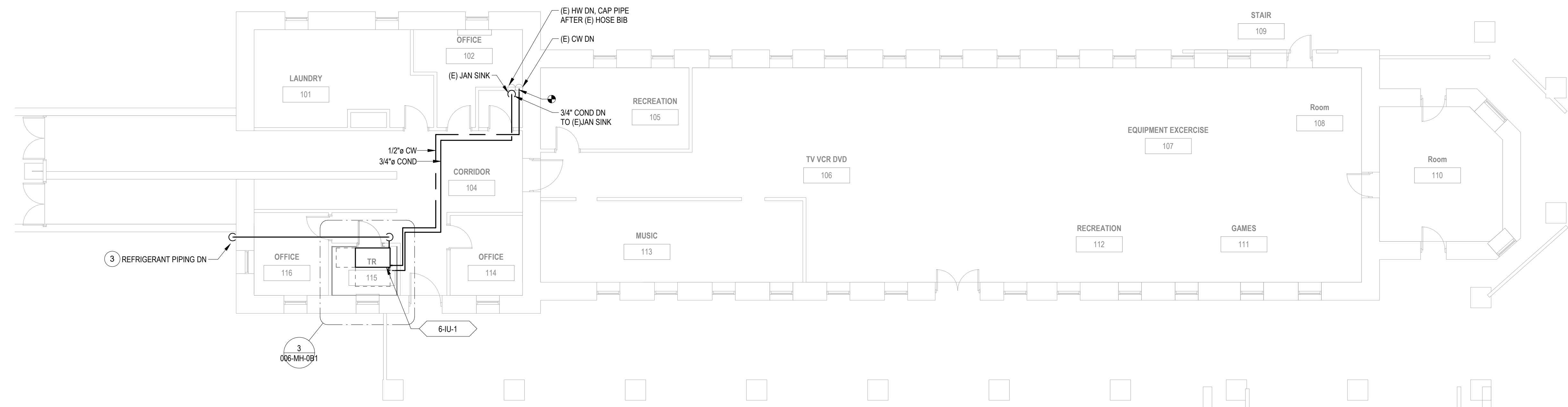
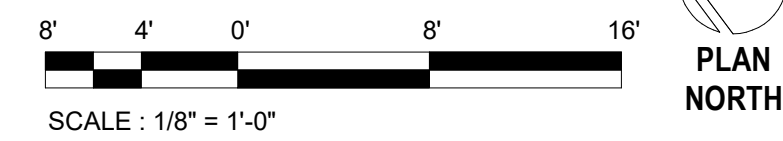


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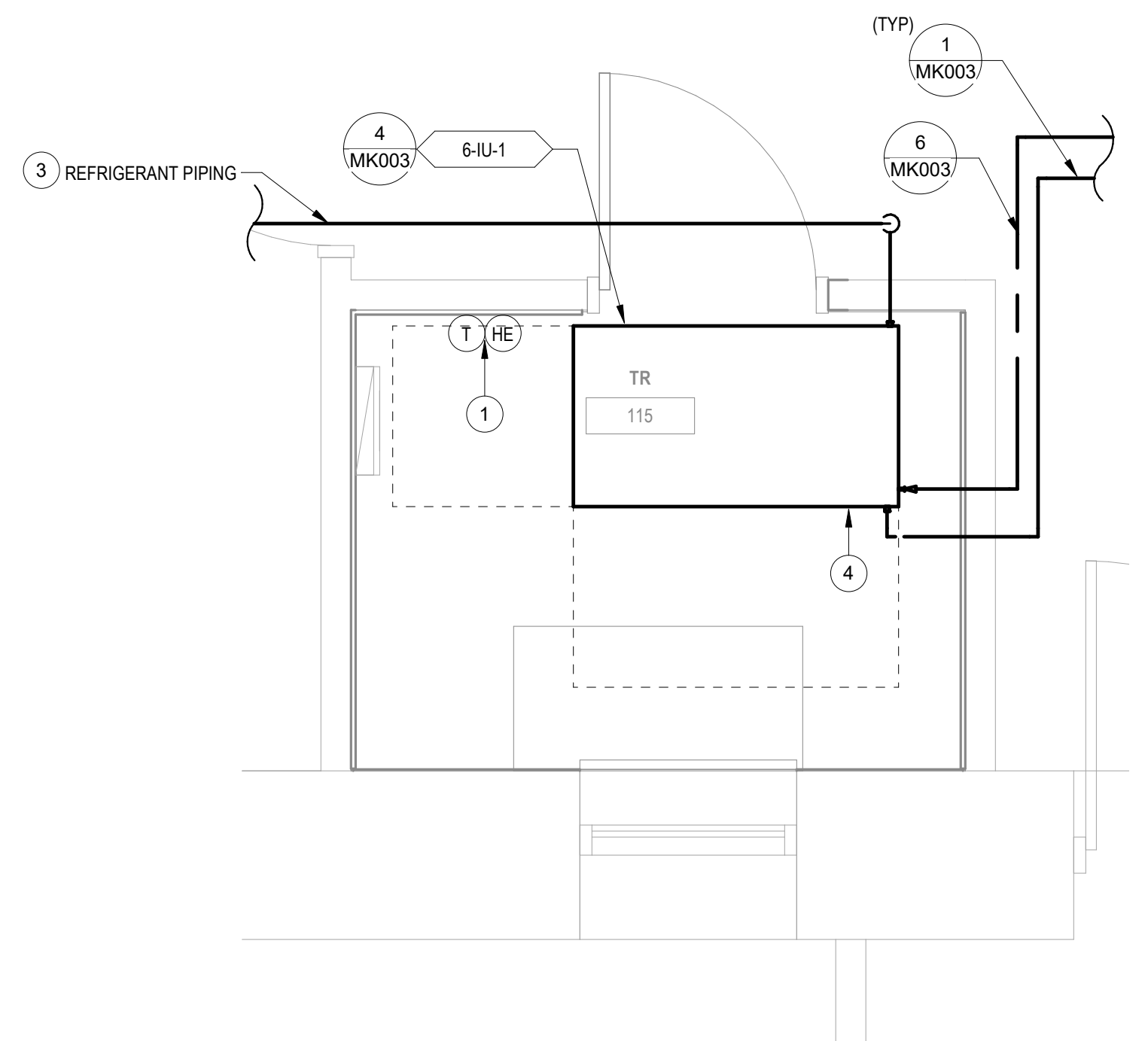
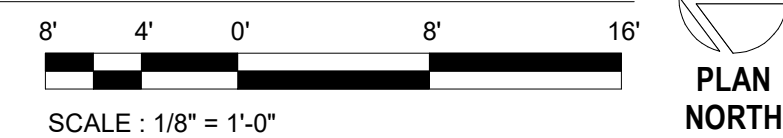
## PLAN NOTES

- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.  
2 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL UNIT PROTECTION DETAIL.  
3 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
4 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.  
5 SEE CIVIL SHEET CJ0002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.

2 BUILDING 6 BASEMENT PLAN - HVAC

$$1/8^{\circ} = 1'-0''$$


1 BUILDING 6 FIRST FLOOR PLAN - HVAC

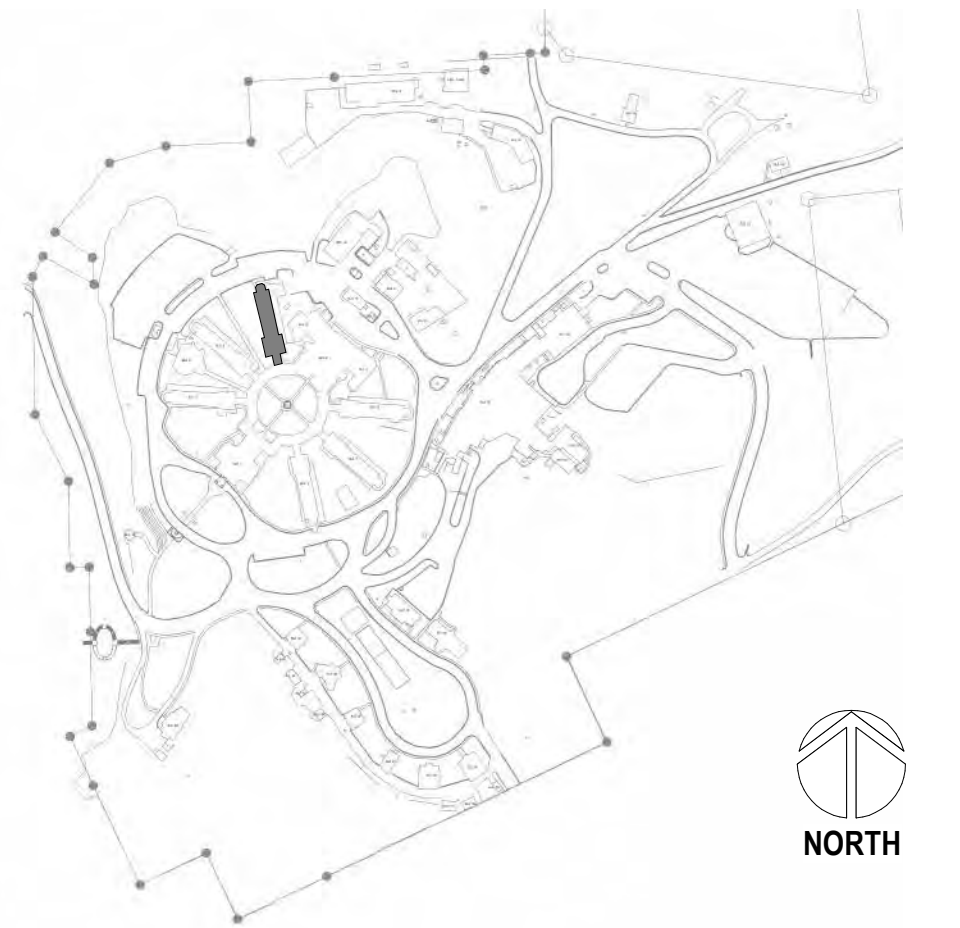
$$1/8" = 1'-0"$$


2 ENLARGED PLAN - ROOM 115 HVAC

---

1/2" = 1'-0"

## SITE LEGEND

[illegible]

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360.318.7095  
JESSE BARKSDALE

The logo for GDM Architects + Engineers is a black rectangle with a thin white border. Inside, the letters "GDM" are in a large, white, serif font. Below them, the words "ARCHITECTS + ENGINEERS" are in a smaller, white, sans-serif font. The entire logo is centered within the right half of the contact information section.


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ADAM GODDIN, PE

**GDM**  
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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE	
06-BASEMENT AND FIRST FLOOR HVAC PLANS	
APPROVED:	

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

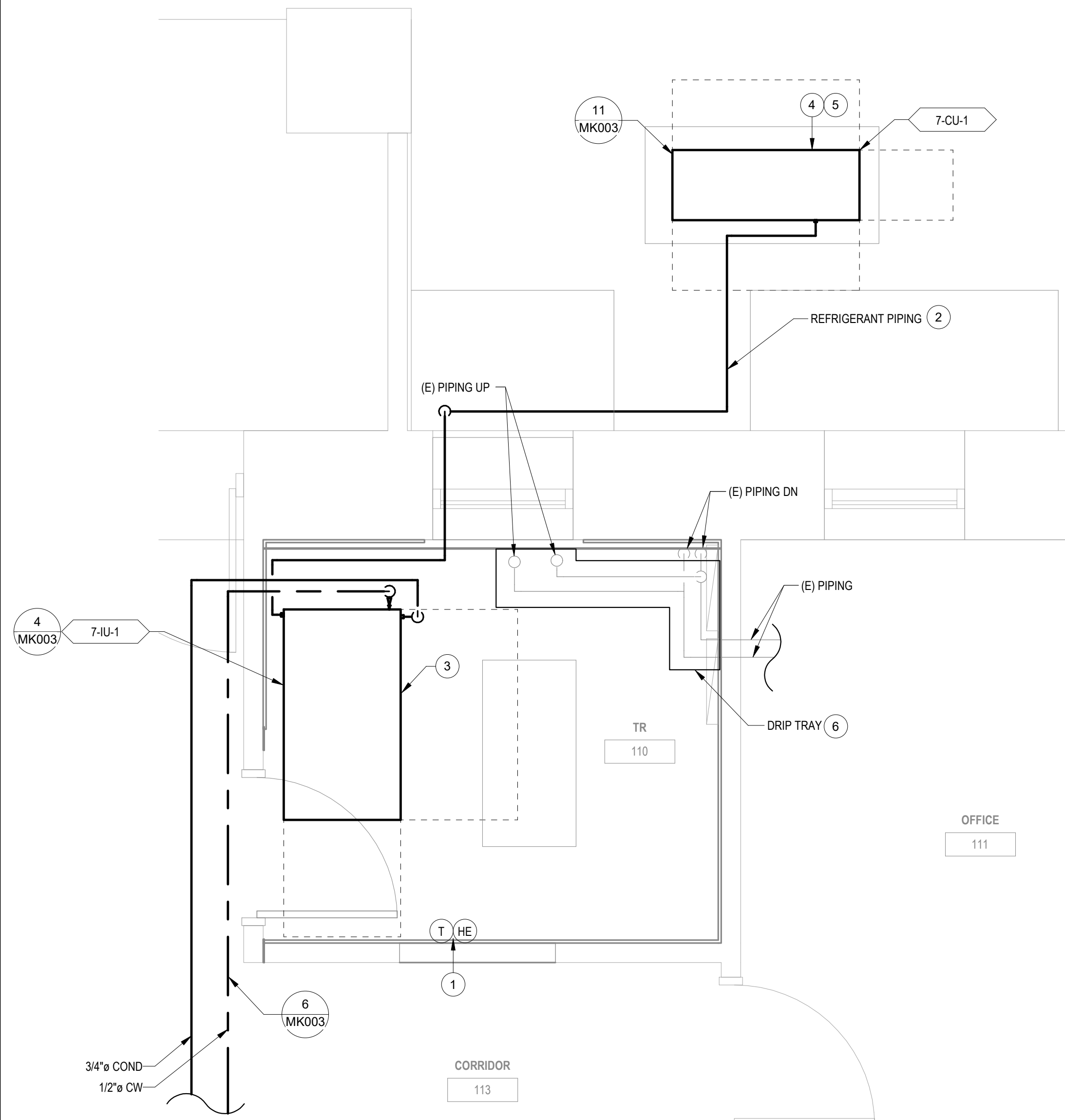
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EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 06
DRAWING NUMBER 006-MH-0B1

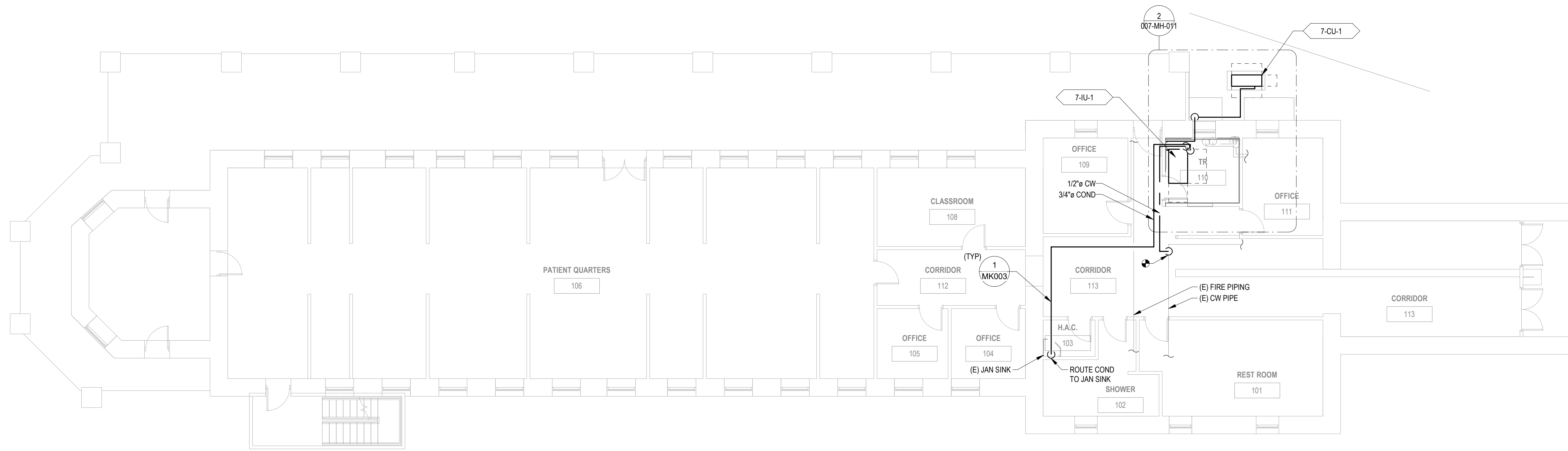


## PLAN NOTES

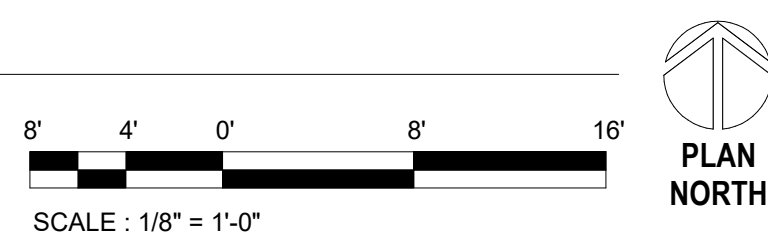
- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC  
SYSTEM.
- 2 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 3 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.
- 4 SEE ARCHITECTURAL SHEET 00-G-006 FOR MECHANICAL UNIT PROTECTION DETAIL.
- 5 SEE CIVIL SHEET CJ002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.
- 6 PROVIDE Drip TRAY WITH LEAK DETECTOR MONITORED BY AND CONNECTED TO DDC  
SYSTEM. ROUTE 3/4" CONDENSATE DRAIN FROM Drip TRAY TO CONDENSATE PUMP.  
CONDENSATE PUMPED CONDENSATE DISCHARGE LINE INTO PUMPED CONDENSATE  
DISCHARGE LINE FROM INDOOR UNIT. CONDENSATE PUMP TO BE LOCATED ON WALL AND  
PROVIDED WITH A 120V CONNECTION.



2 ENLARGED ROOM - 110 HVAC  
1/2" = 1'-0"



1 BUILDING 7 FIRST FLOOR PLAN - HVAC  
1/8" = 1'-0"

[illegible]

## CONSULTANT

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**360.318.7095**  
**JESSE BARKSDALE**



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ADAM GODDIN, PE



**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

U.S. Department  
of Veterans Affairs

**DRAWING TITLE**

## 07-FIRST FLOOR HVAC PLANS

**APPROVED:**

**PHASE**

100% CD FINAL SOLUTION

**FLS**

FULLY SPRINKLERED

PROJECT TITLE

## EHRM INFRASTRUCTURE UPGRADES

LOCATION

HOT SPRING

ISSUE DATE

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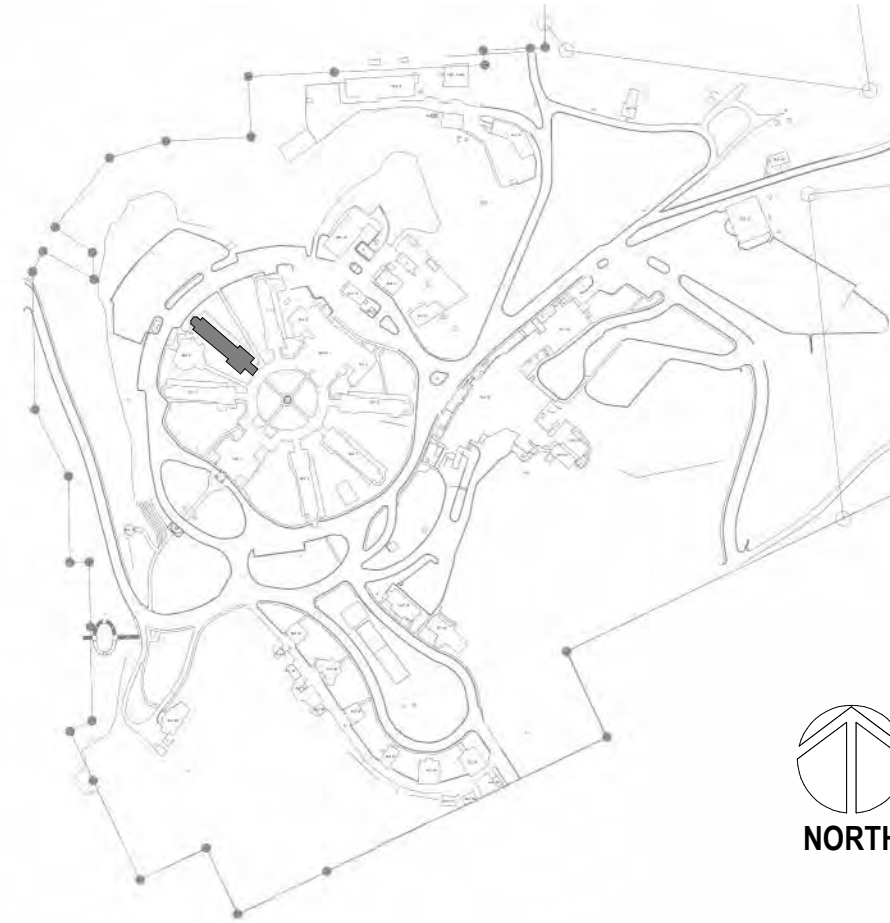
SOUTH DAKOTA

PROJECT NUMBER

568A4-21-702

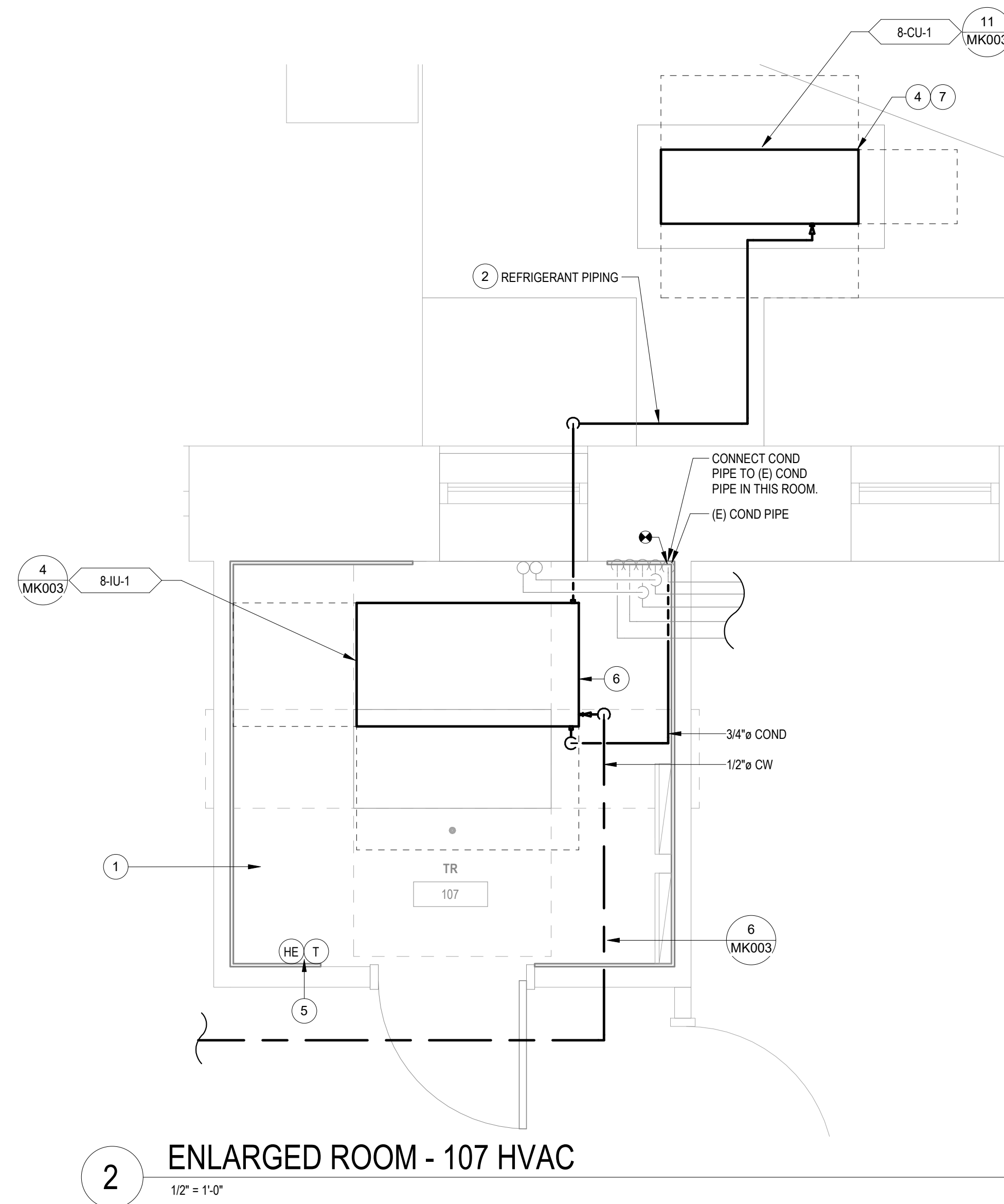
DRAWING NUMBER

007-MH-011



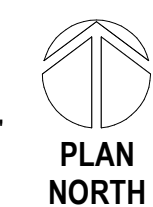
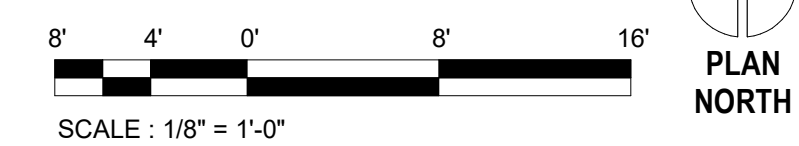
## PLAN NOTES

- 1 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL ASSEMBLY. REFER TO  
2 ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.
- 3 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 4 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION, WHERE POSSIBLE MAKE CONNECTION  
5 IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIXTURE CW  
6 LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 7 SEE ARCHITECTURAL SHEET 00-G106 FOR MECHANICAL UNIT PROTECTION DETAIL.
- 8 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 9 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.
- 10 SEE CIVIL SHEET C10002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.

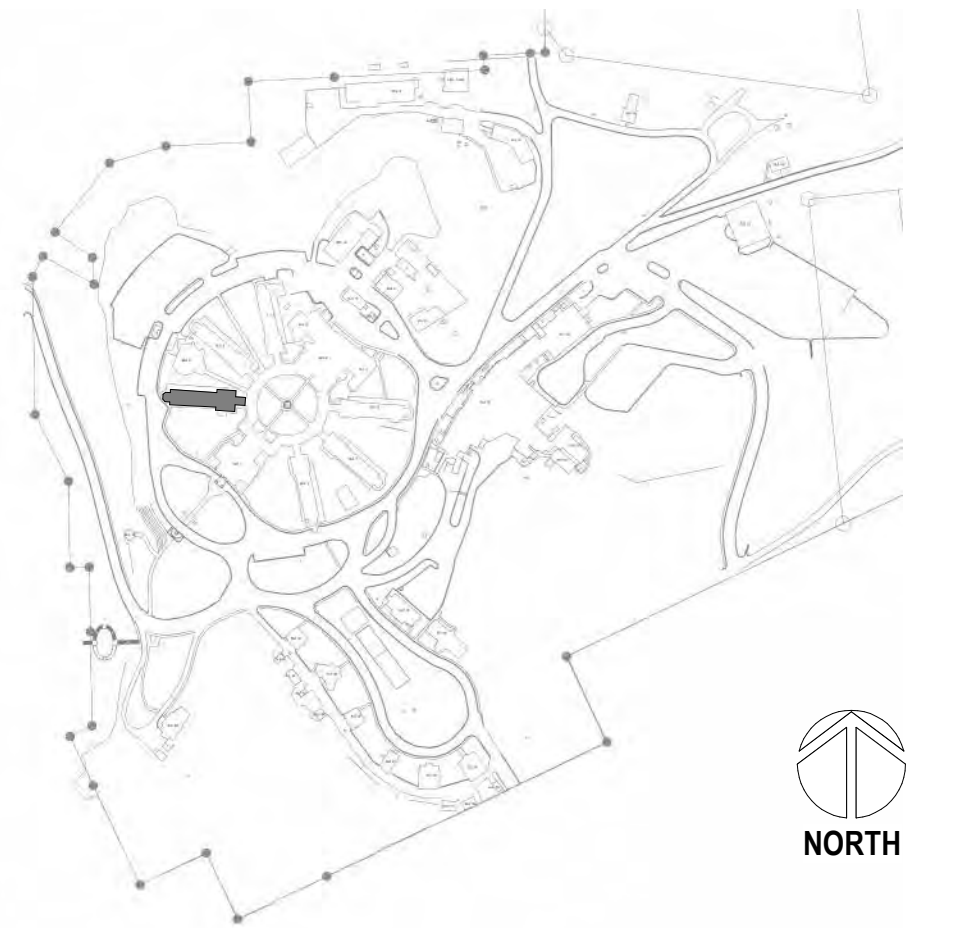


2 ENLARGED ROOM - 107 HVAC  
1/2" = 1'-0"

1 BUILDING 8 FIRST FLOOR PLAN - HVAC  
1/8" = 1'-0"



## SITE LEGEND

[illegible]

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CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE	
08-FIRST FLOOR HVAC PLANS	
APPROVED:	

PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

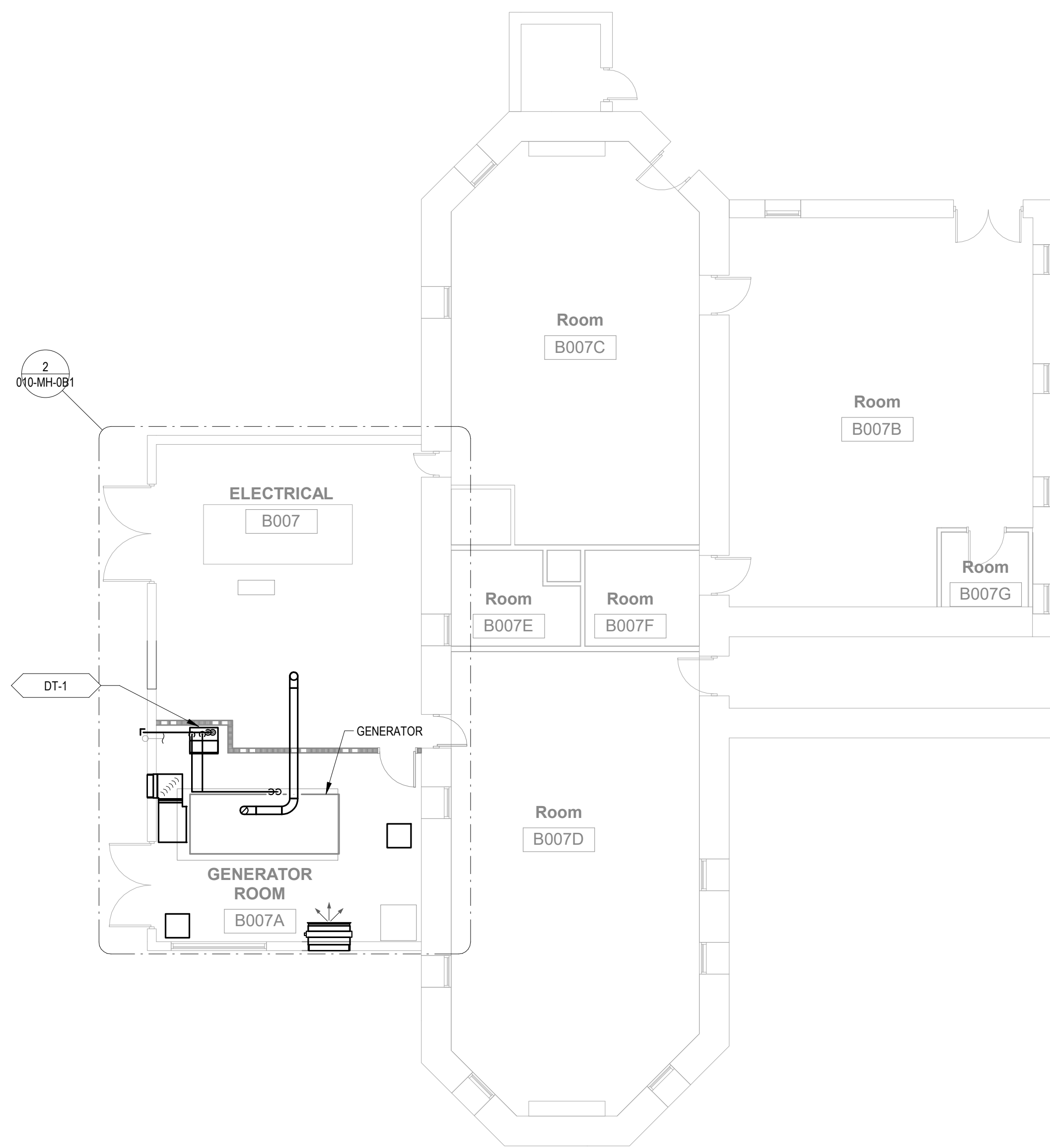
PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 08
DRAWING NUMBER 008-MH-011

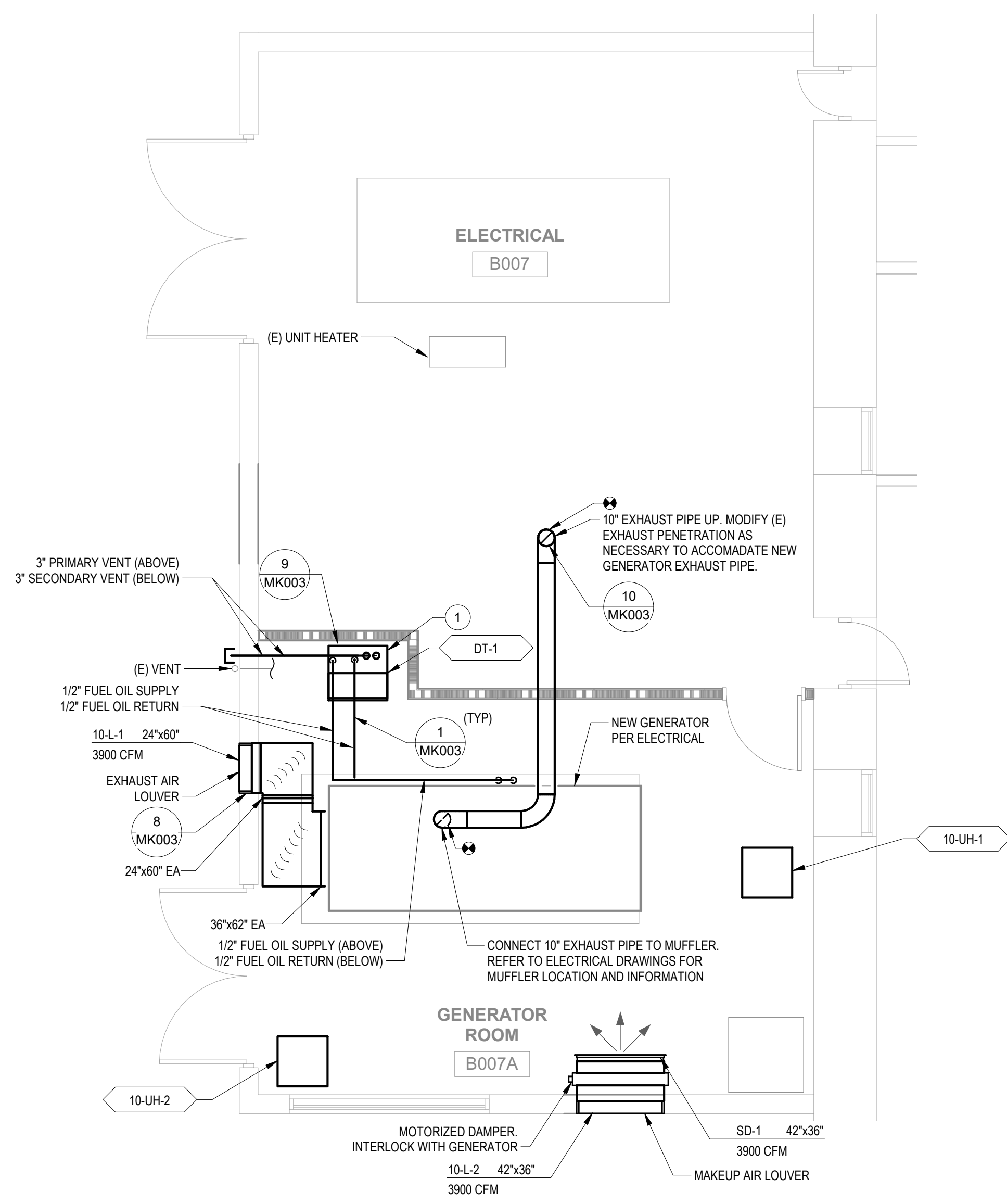
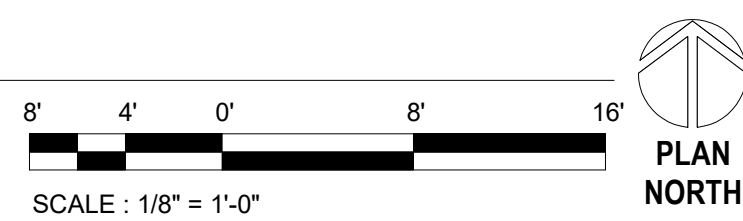


PLAN NOTES

1 PROVIDE DAY TANK, PIPING, FITTINGS AND VENTILATION FOR OPERATIONAL SYSTEM. CONNECT CRITICAL HIGH, HIGH, LOW, CRITICAL LOW AND LEAK SENSOR ALARMS TO DDC SYSTEM. COORDINATE VENTILATION PENETRATION WITH ARCHITECTURE.

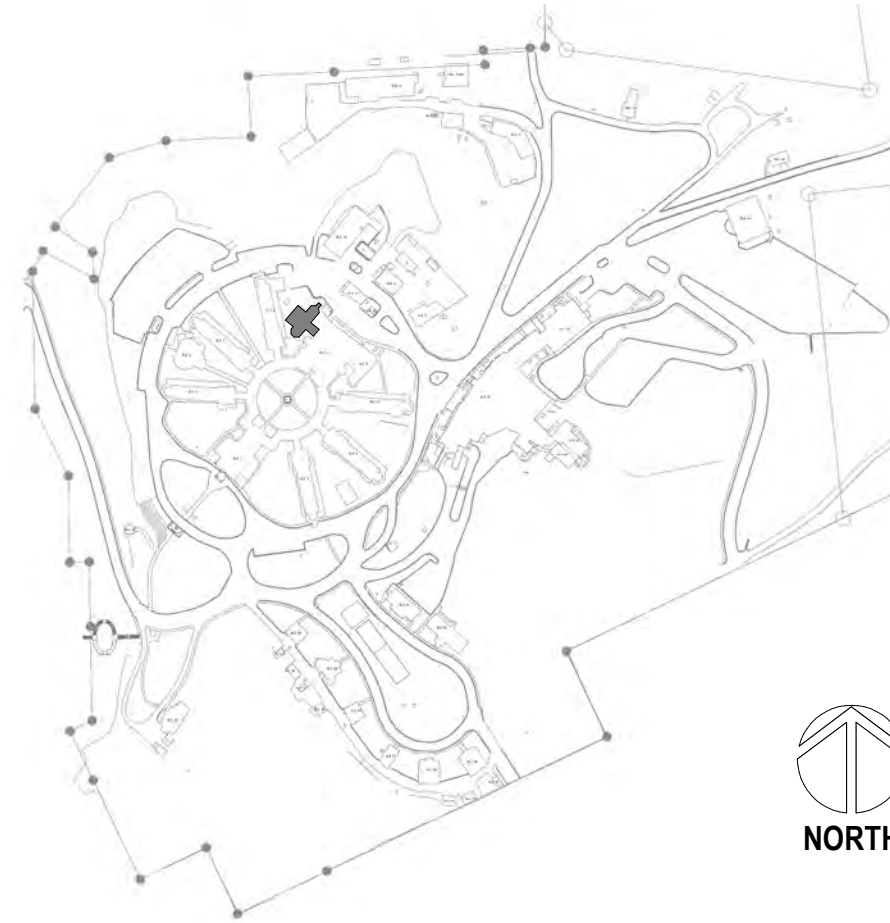


1 BUILDING 10 BASEMENT PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED PLAN - ELECTRICAL ROOM  
1/4\"/>

SITE LEGEND



Revisions:	Date:

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MINNIE TAKALIS  
REGISTERED ARCHITECT  
WASHINGTON  
02/23/2022

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

U.S. Department of Veterans Affairs

**DRAWING TITLE**  
10-BASEMENT HVAC PLANS

**APPROVED:**

**PHASE**  
100% CD FINAL SOLUTION

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
HOT SPRINGS, SOUTH DAKOTA

**ISSUE DATE**  
02/23/2022

**CHECKED BY**  
KHT

**DRAWN BY**  
KBT

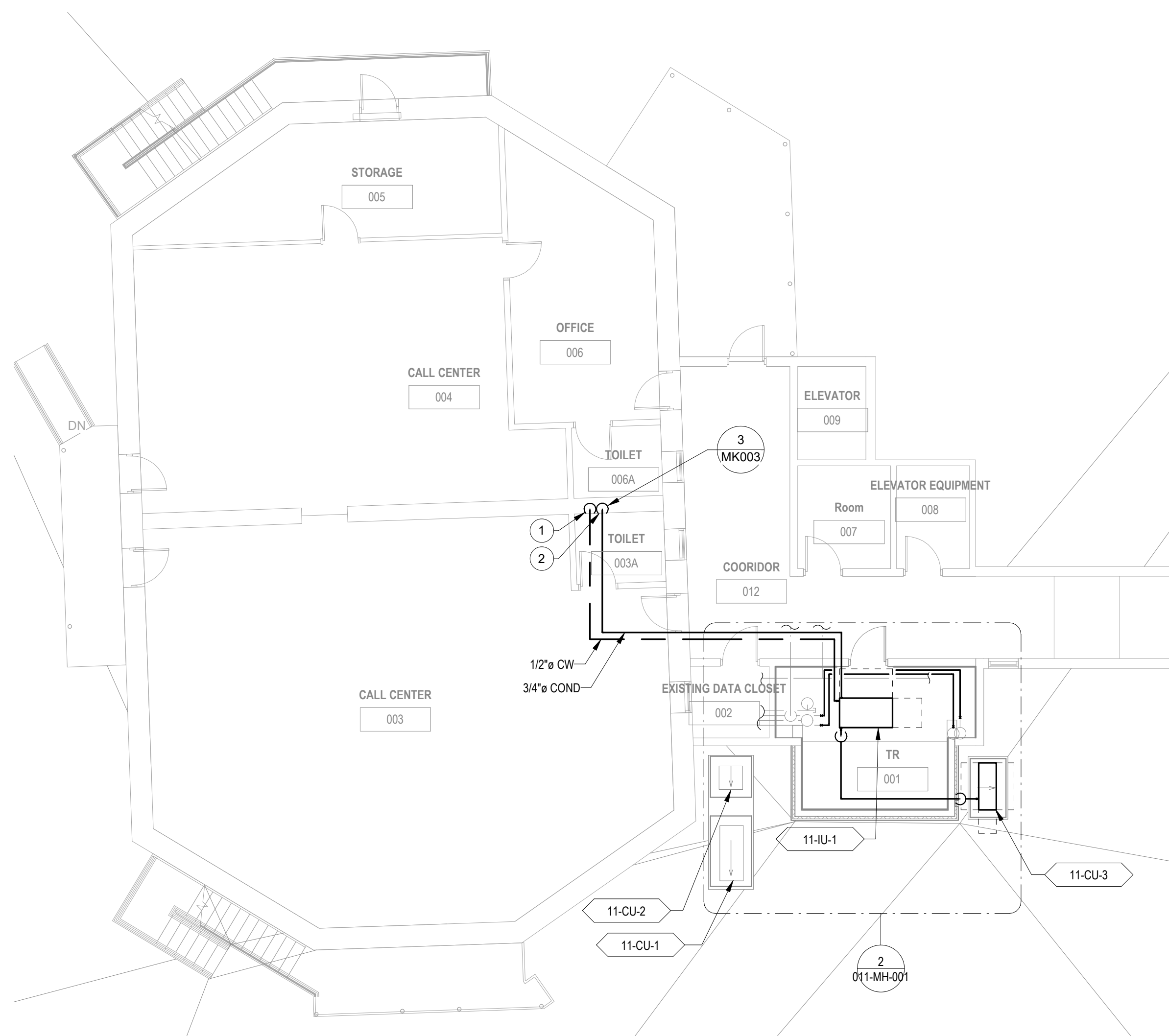
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**BUILDING NUMBER**  
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**DRAWING NUMBER**  
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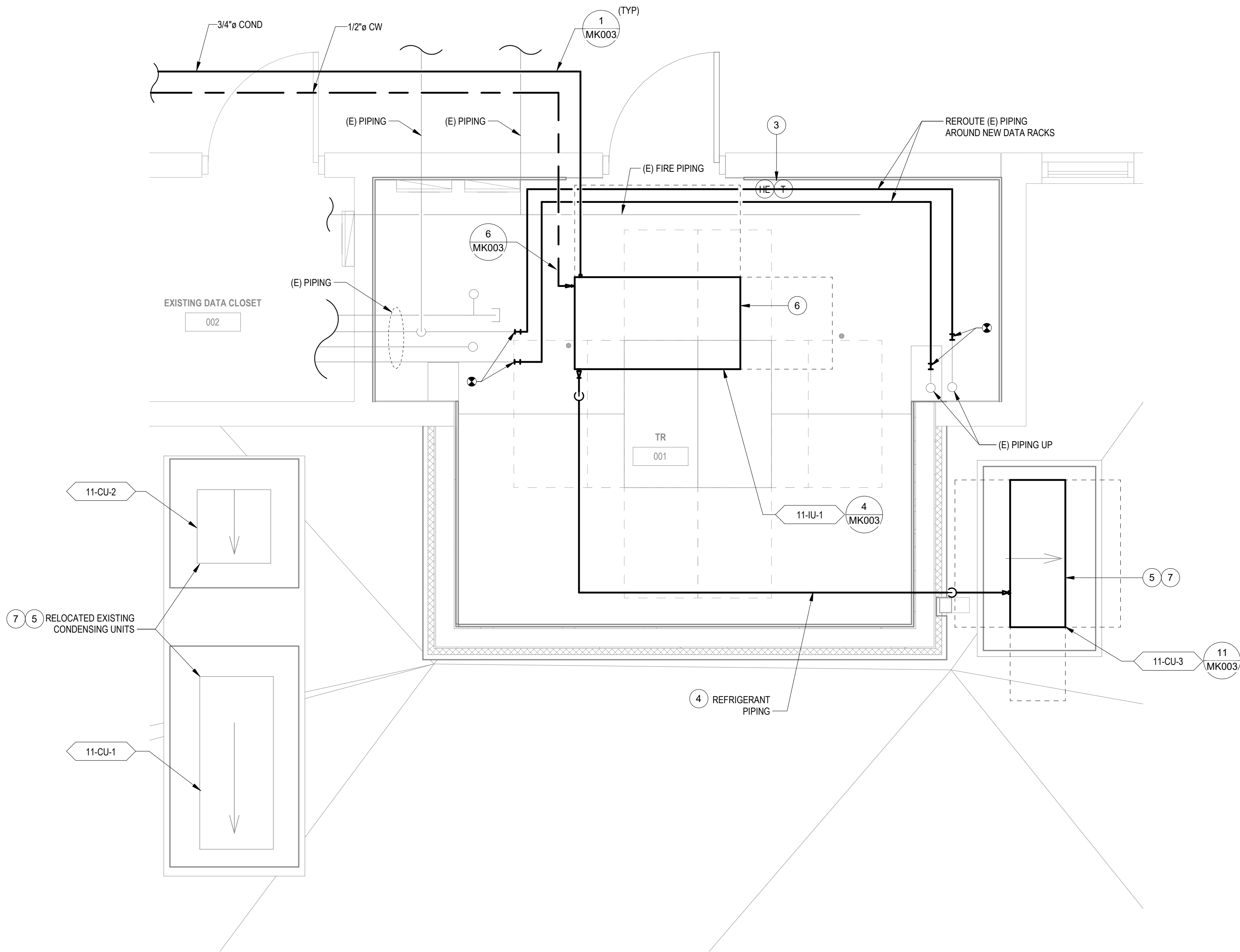
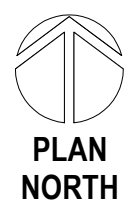
PLAN NOTES

- 1 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION. WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 2 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 3 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 4 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 5 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL UNIT PROTECTION DETAIL.
- 6 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.
- 7 SEE CIVIL SHEET CJ0002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.



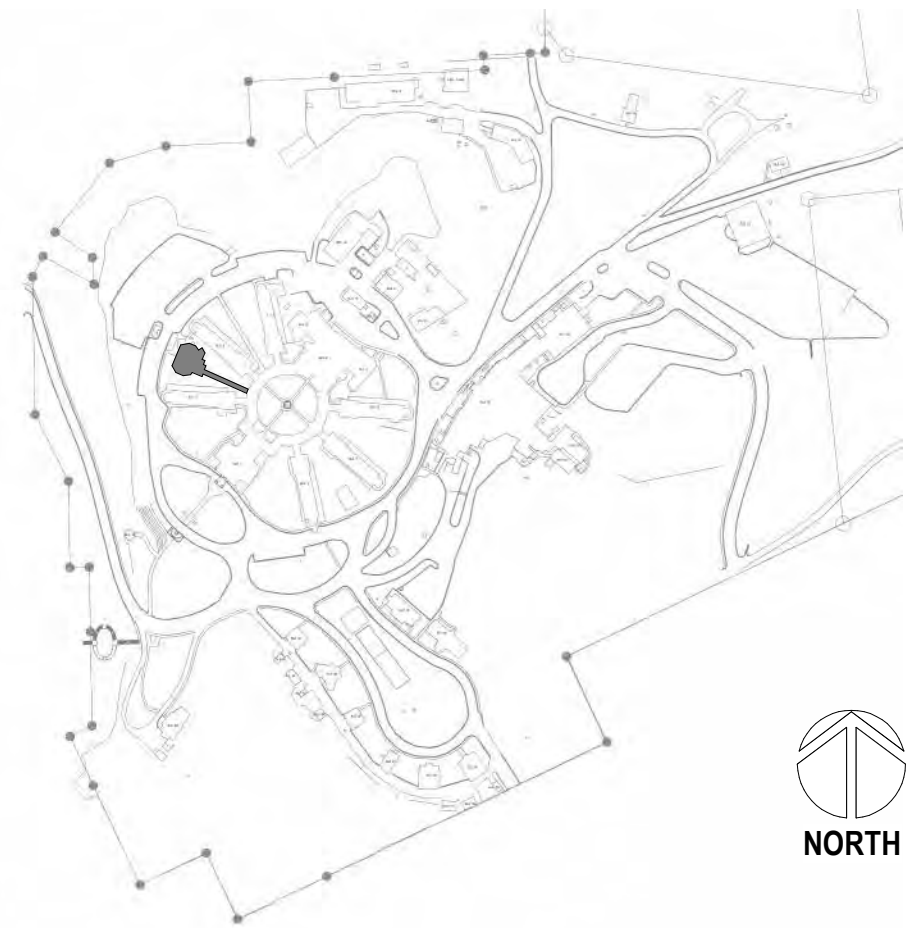
1 BUILDING 11 GROUND FLOOR PLAN - HVAC  
1/8" = 1'-0"

SCALE : 1/8" = 1'-0"  
16' 8' 0' 4' 8'



2 ENLARGED ROOM - 001 HVAC  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

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ADAM GODDIN, PE

**GDM**  
ARCHITECTS-ENGINEERS

**STAMP**

MINOR TAKALOGIC  
KING OF WASHINGTON  
ARCHITECTS  
02/23/2022  
NATIONAL EXHIBITION

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

U.S. Department of Veterans Affairs

DRAWING TITLE  
11-GROUND FLOOR HVAC PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
11

DRAWING NUMBER  
011-MH-001



A

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C

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E

F

5/26/2022 8:54:53 AM

C:\Users\karns\Documents\2-017 va hot springs - bldg 12 - mch 20\upper\A0ES-1.rvt

A

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C

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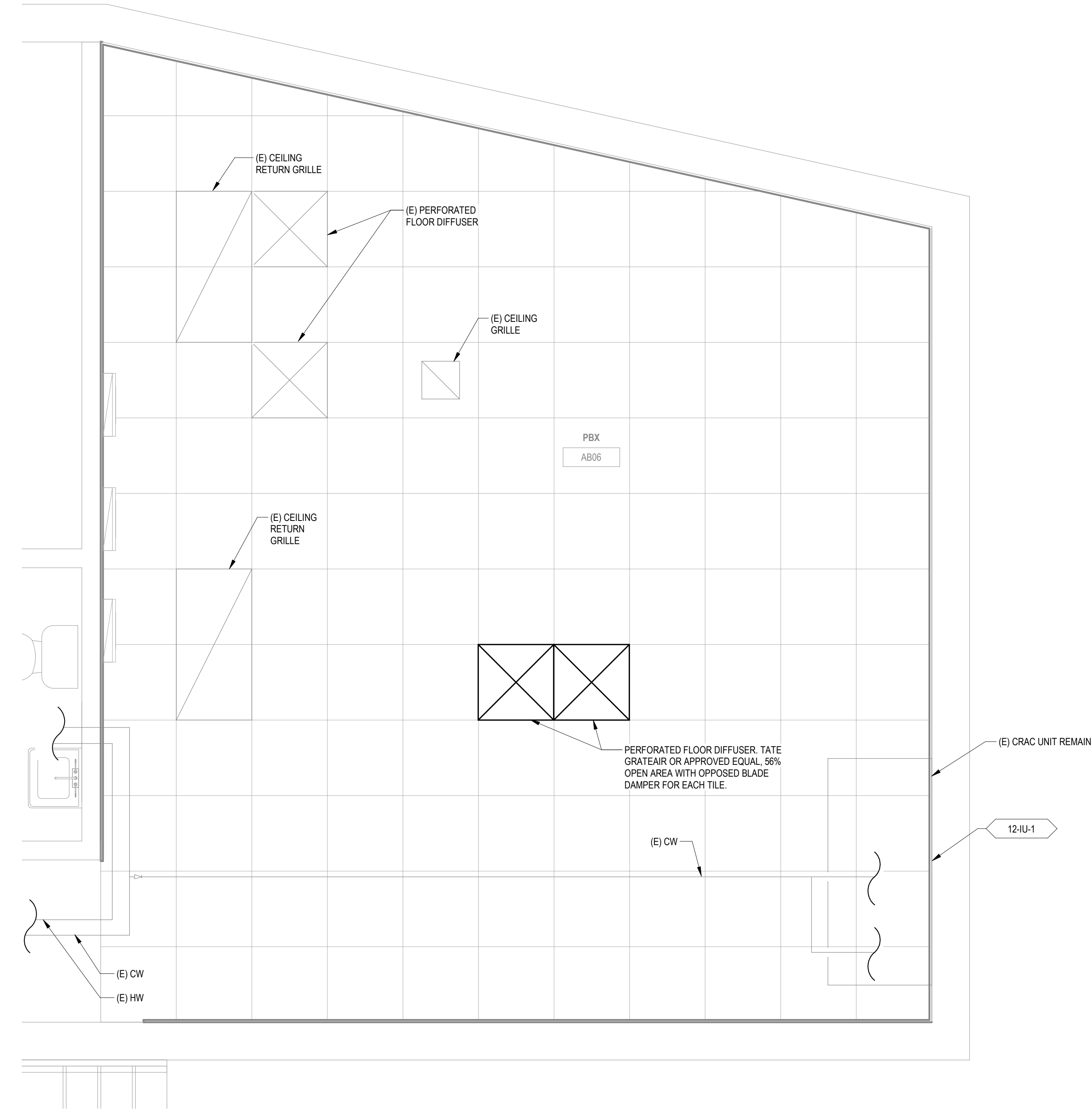
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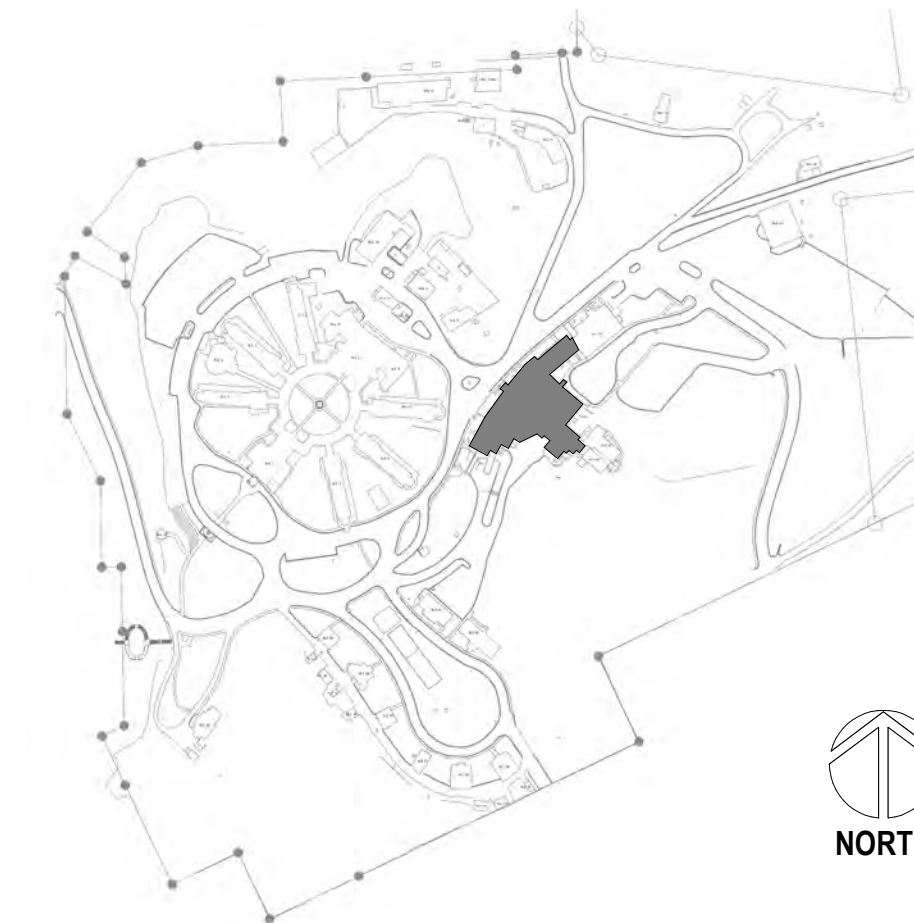
1 BUILDING 12 BASEMENT HVAC PLAN - SECTOR A  
1/8" = 1'-0"

8' 4' 0' 8' 16'  
SCALE : 1/8" = 1'-0"



2 ENLARGED ROOM - AB06 HVAC  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

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ADAM GODDIN, PE

**GDM**  
ARCHITECTS • ENGINEERS

**STAMP**

MAINTENANCE TACTICAL  
KING OF WASHINGTON  
ARCHITECTS  
02/23/2022  
PERSONAL EXEMPT

**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

**DRAWING TITLE**  
12-BASEMENT HVAC PLANS - SECTOR A

**APPROVED:**

**PHASE**  
100% CD FINAL SOLUTION

**FLS**  
FULLY SPRINKLERED

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**LOCATION**  
HOT SPRINGS, SOUTH DAKOTA

**ISSUE DATE**  
02/23/2022

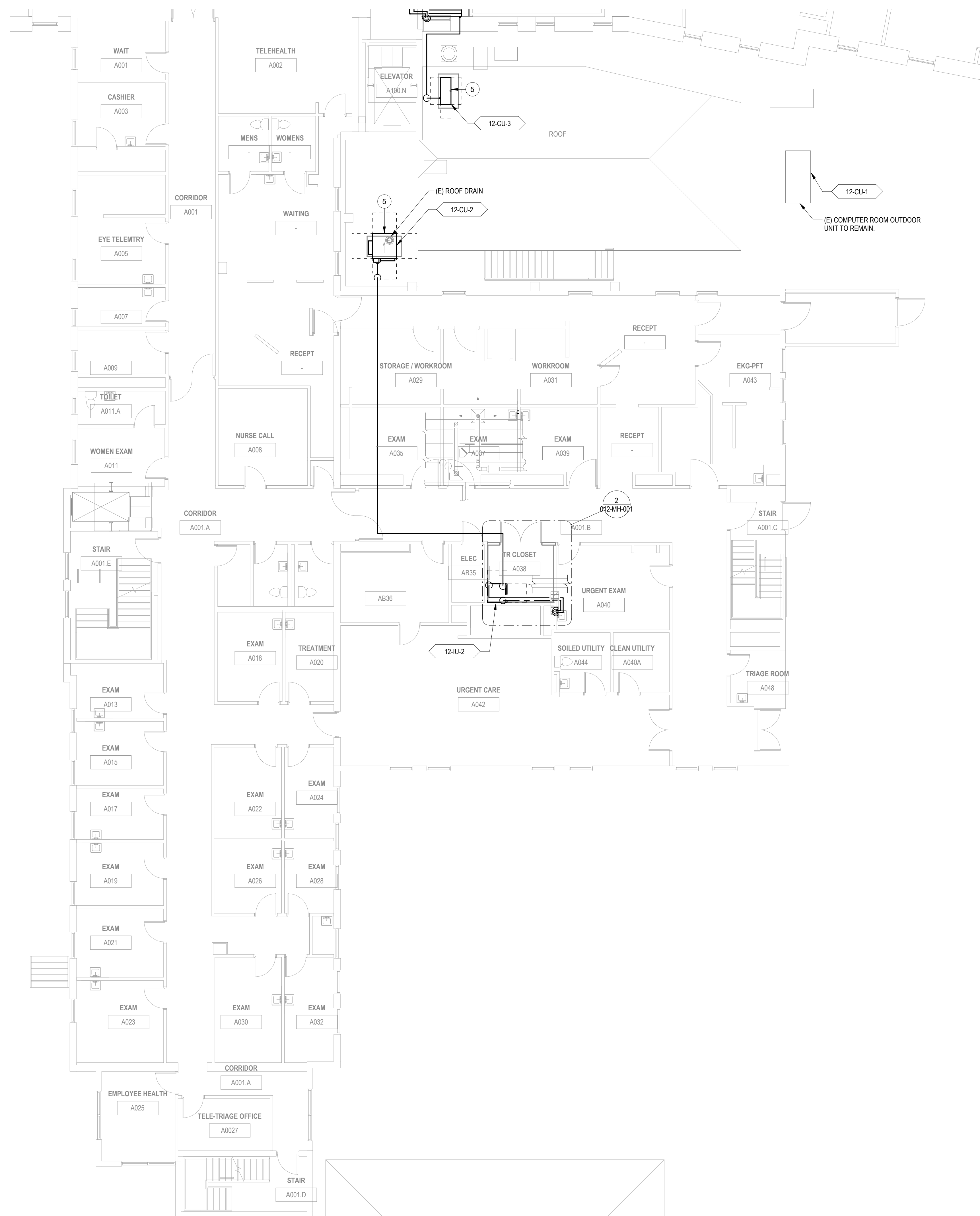
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KHT

**DRAWN BY**  
KBT

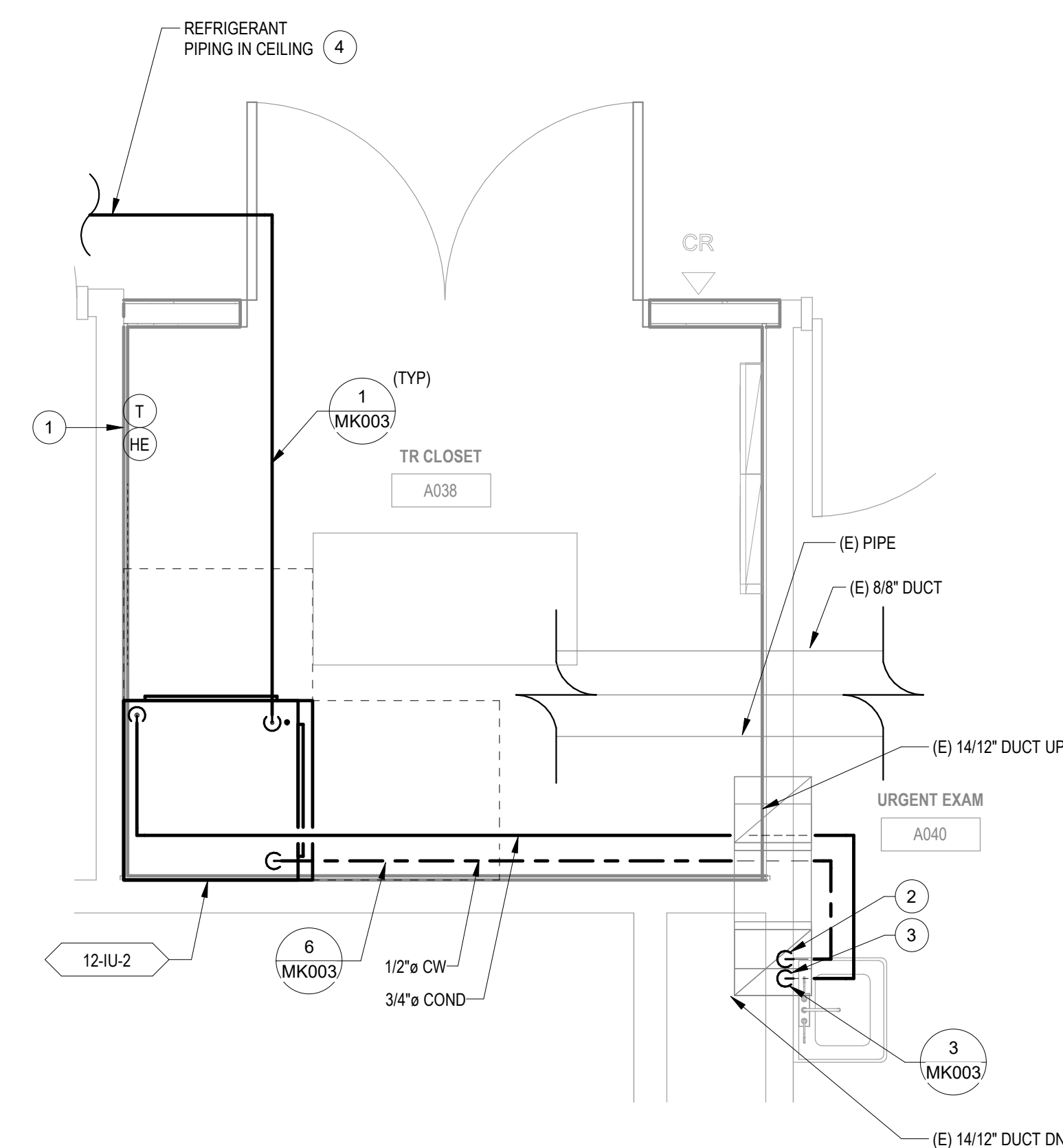
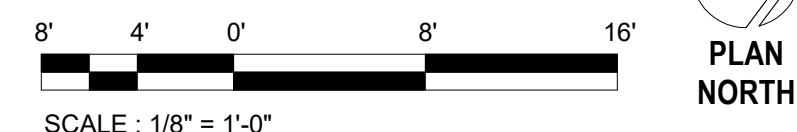
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568A4-21-702

**BUILDING NUMBER**  
12

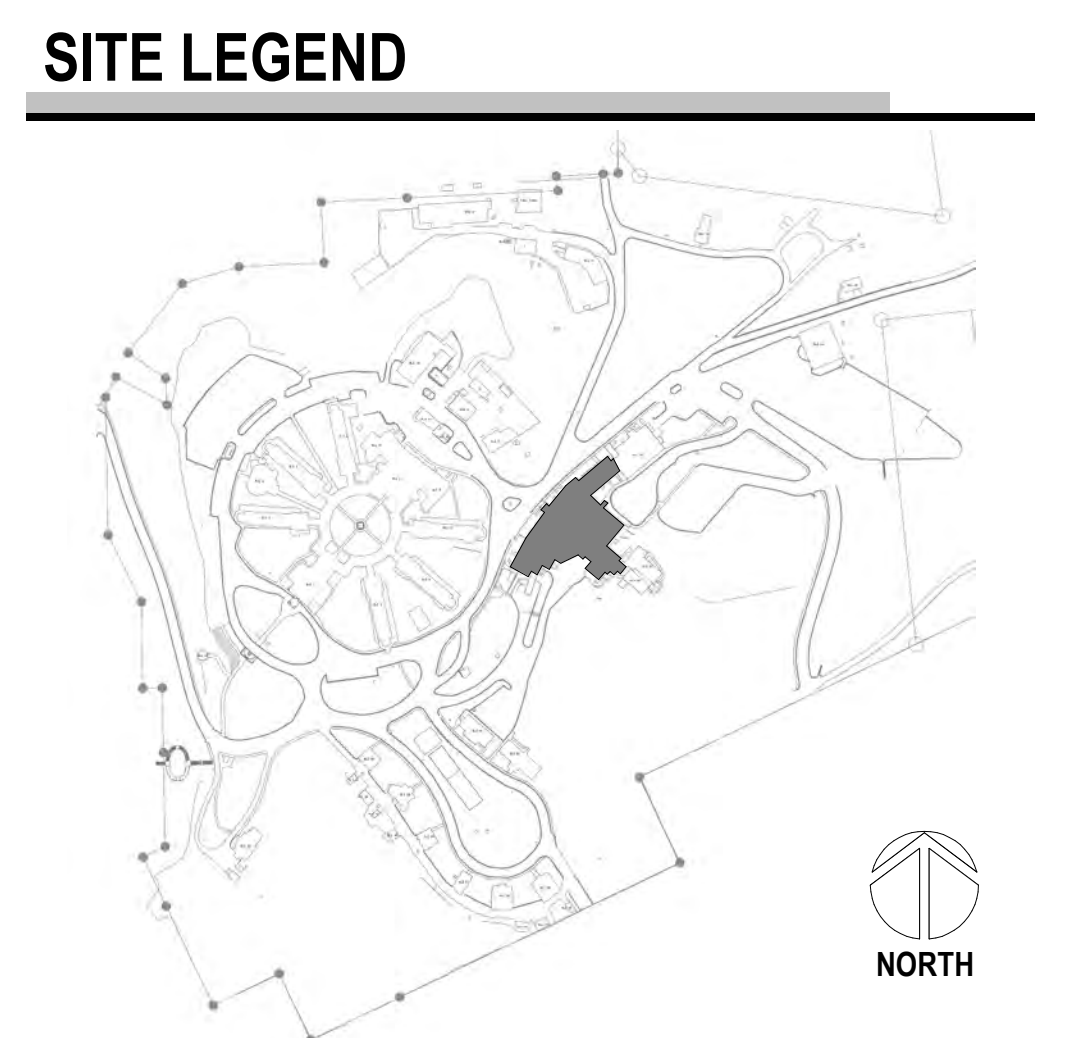
**DRAWING NUMBER**  
012-MH-0B1



1 BUILDING 12 GROUND FLOOR HVAC PLAN - SECTORS A  
1/8" = 1'-0"



2 ENLARGED ROOM - A038 HVAC  
1/2" = 1'-0"



## PLAN NOTES

- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 2 CONNECT CW FOR INDOOR UNIT TO [CW] IN THIS LOCATION, WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIGHTING CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 3 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 4 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 5 SEE ARCHITECTURAL SHEET 05-GI-006 FOR MECHANICAL EQUIPMENT ROOF SUPPORT DETAIL.

[illegible]

CONSULTANT

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360.318.7095  
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**ARCHITECT**  
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ADAM GODDIN, PE



STAMP



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

	DRAWING TITLE
--	---------------

12-GROUND FLOOR HVAC PLANS -  
SECTOR A

**APPROVED:**

PHASE

100% CD FINAL SOLUTION

	<b>FLS</b>

FULLY OBRINKLERED

PROJECT TITLE
---------------

## EHRM INFRASTRUCTURE UPGRADES

	LOCATION

HOT SPRING

---

S, SOUTH DAKOTA

	CHECKED BY
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OTA

PROJECT NUMBER

568A4-21-702
BUILDING NUMBER

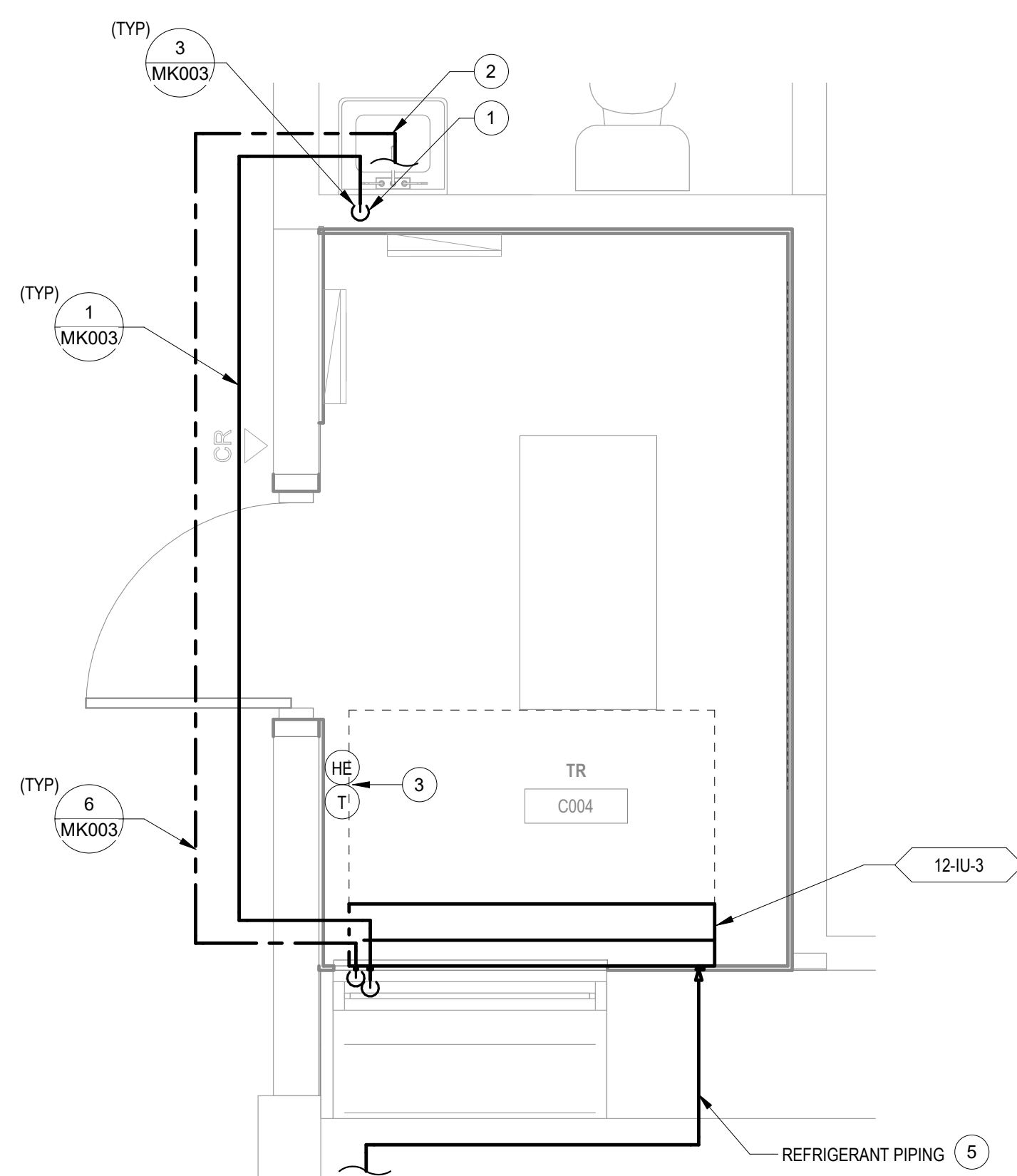
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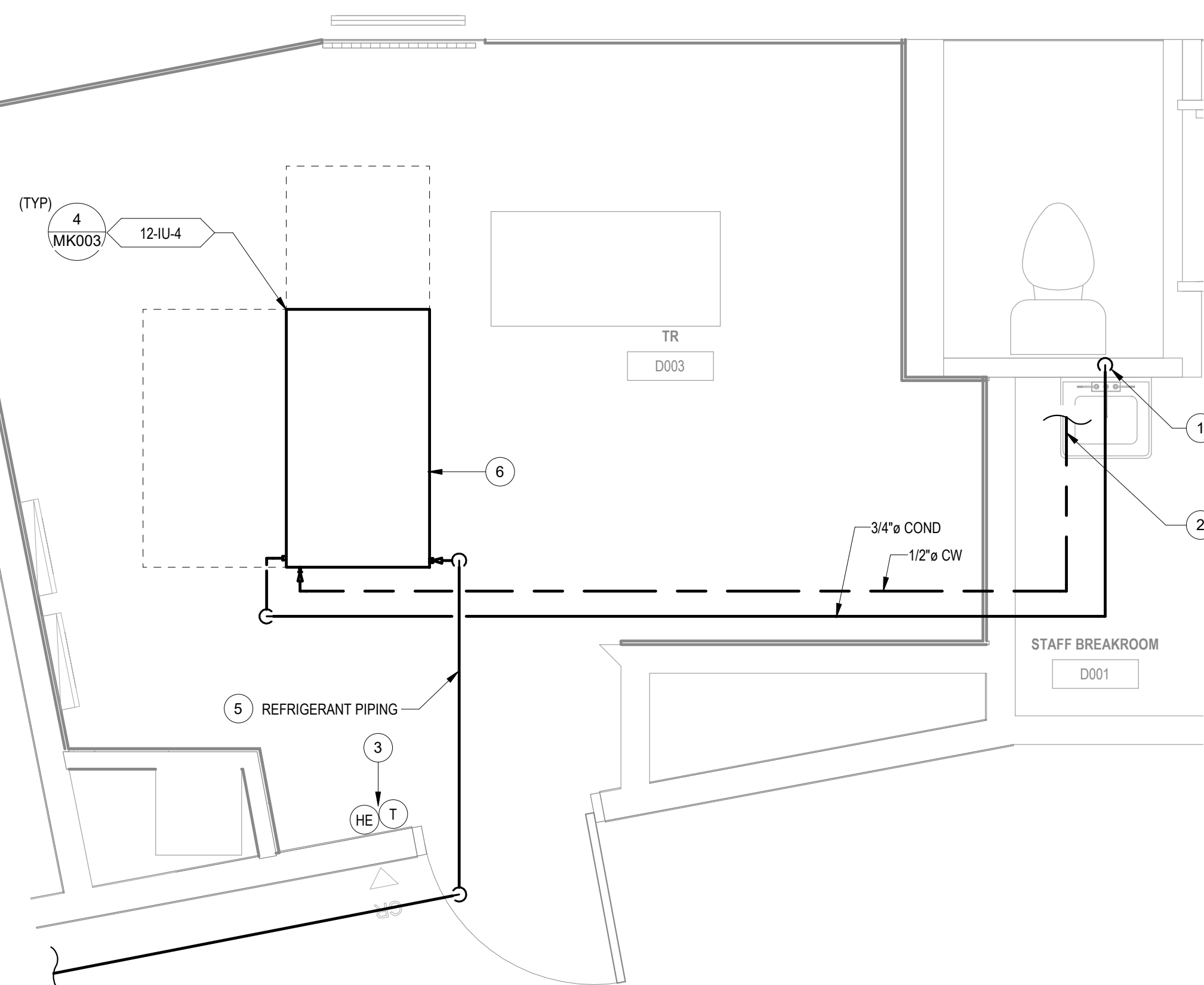


## PLAN NOTES

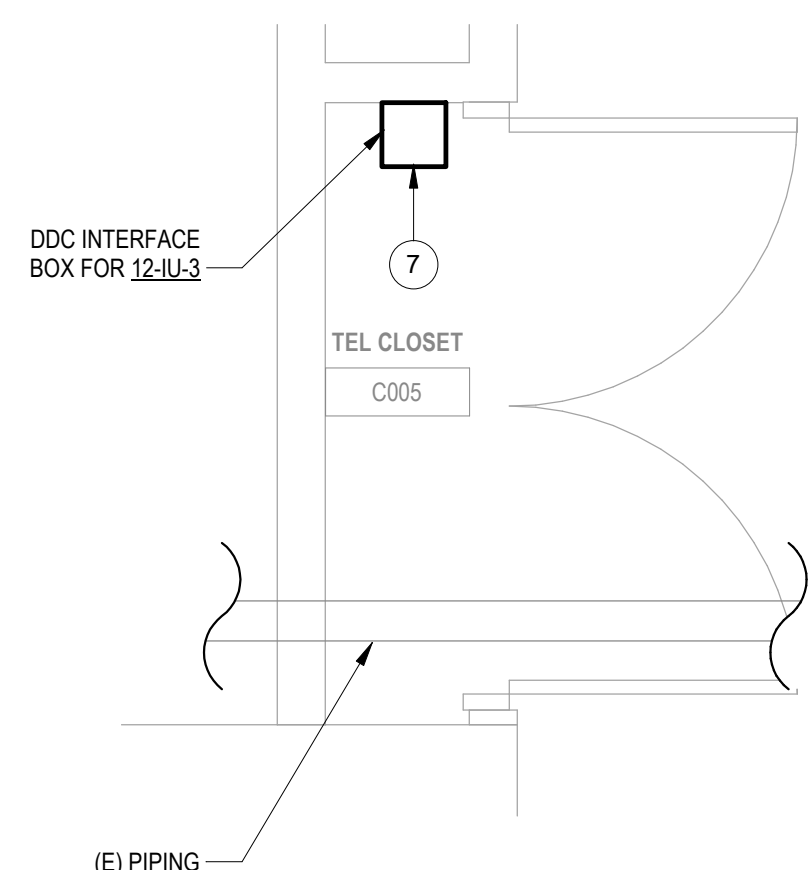
- 1 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH  
ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 2 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION, WHERE POSSIBLE MAKE  
CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT  
TO EXISTING FUTURE C/W LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR  
PIPE CONNECTION.
- 3 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC  
SYSTEM.
- 4 SEE ARCHITECTURAL SHEET 00-06-00 FOR MECHANICAL EQUIPMENT ROOF SUPPORT  
DETAIL.
- 5 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 6 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.
- 7 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN NEW TR AND TO  
DOCK SYSTEM FOR ELECTRICAL DOCUMENTS FOR POWER CONNECTION.



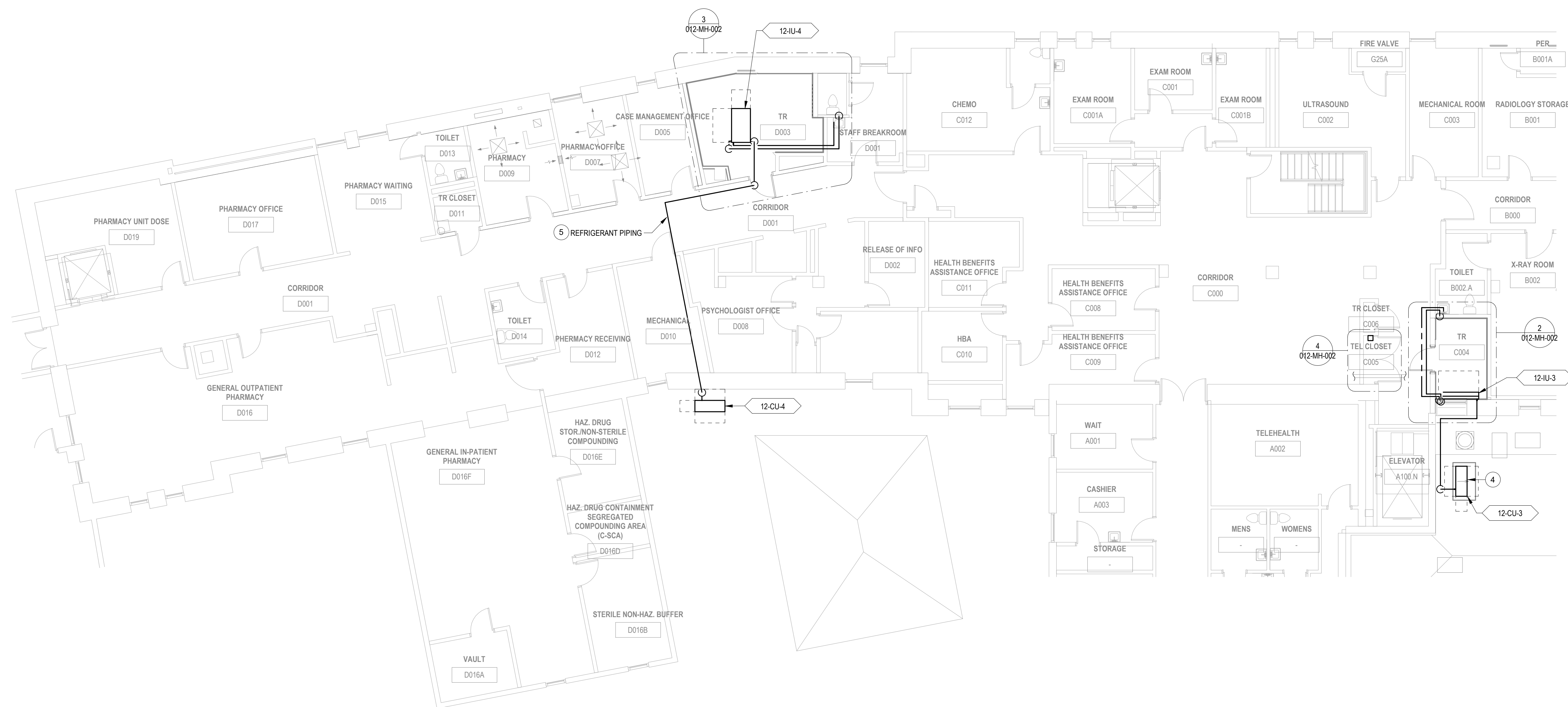
2 ENLARGED ROOM - C004 HVAC  
1/2" = 1'-0"



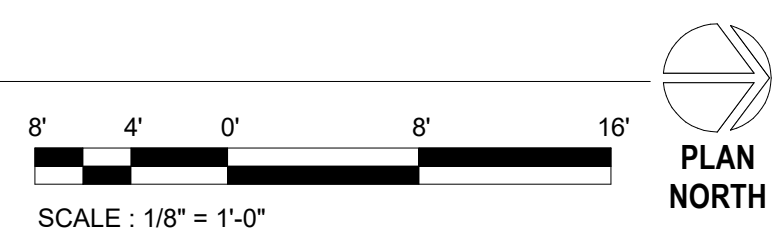
3 ENLARGED ROOM - D003 HVAC  
1/2" = 1'-0"



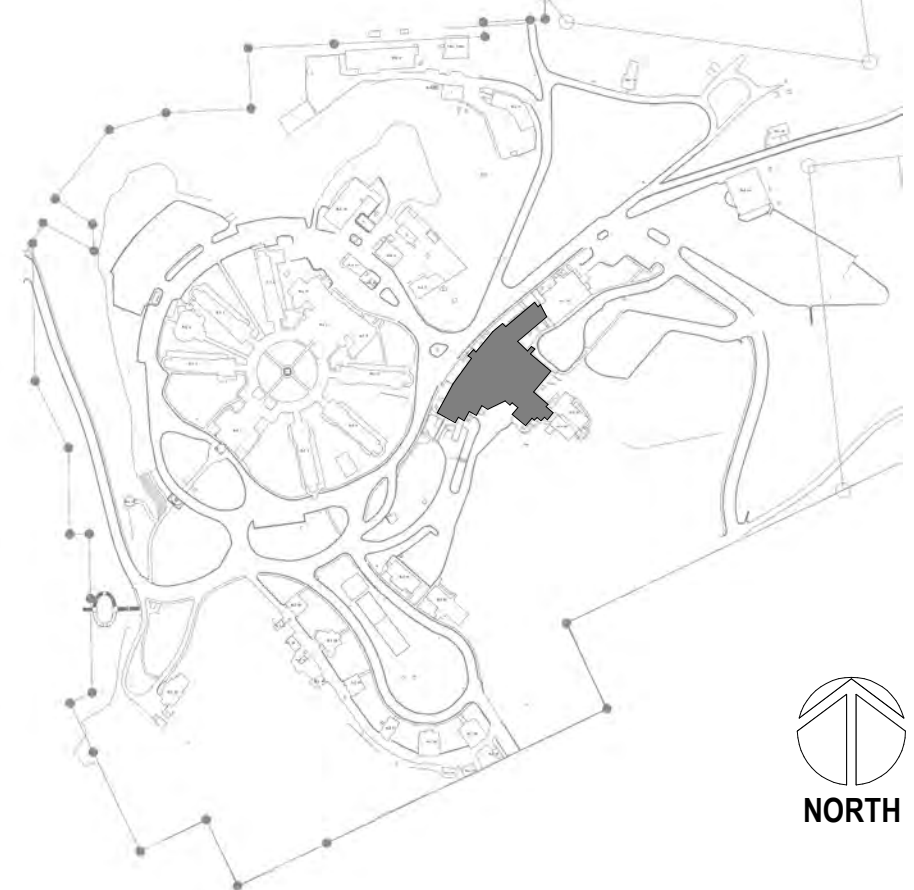
4 ENLARGED ROOM - C005 HVAC  
1/2" = 1'-0"



1 BUILDING 12 GROUND FLOOR HVAC PLAN - SECTOR C/D  
1/8" = 1'-0"



## SITE LEGEND

[illegible]


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ADAM GODDIN, PE

The logo for GDM Architects + Engineers is a black rectangle with a thin white border. Inside, the letters "GDM" are prominently displayed in a large, white, serif font. Below "GDM", the words "ARCHITECTS + ENGINEERS" are written in a smaller, white, sans-serif font.

**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE
12-GROUND HVAC PLANS - SECTOR C/D
APPROVED:

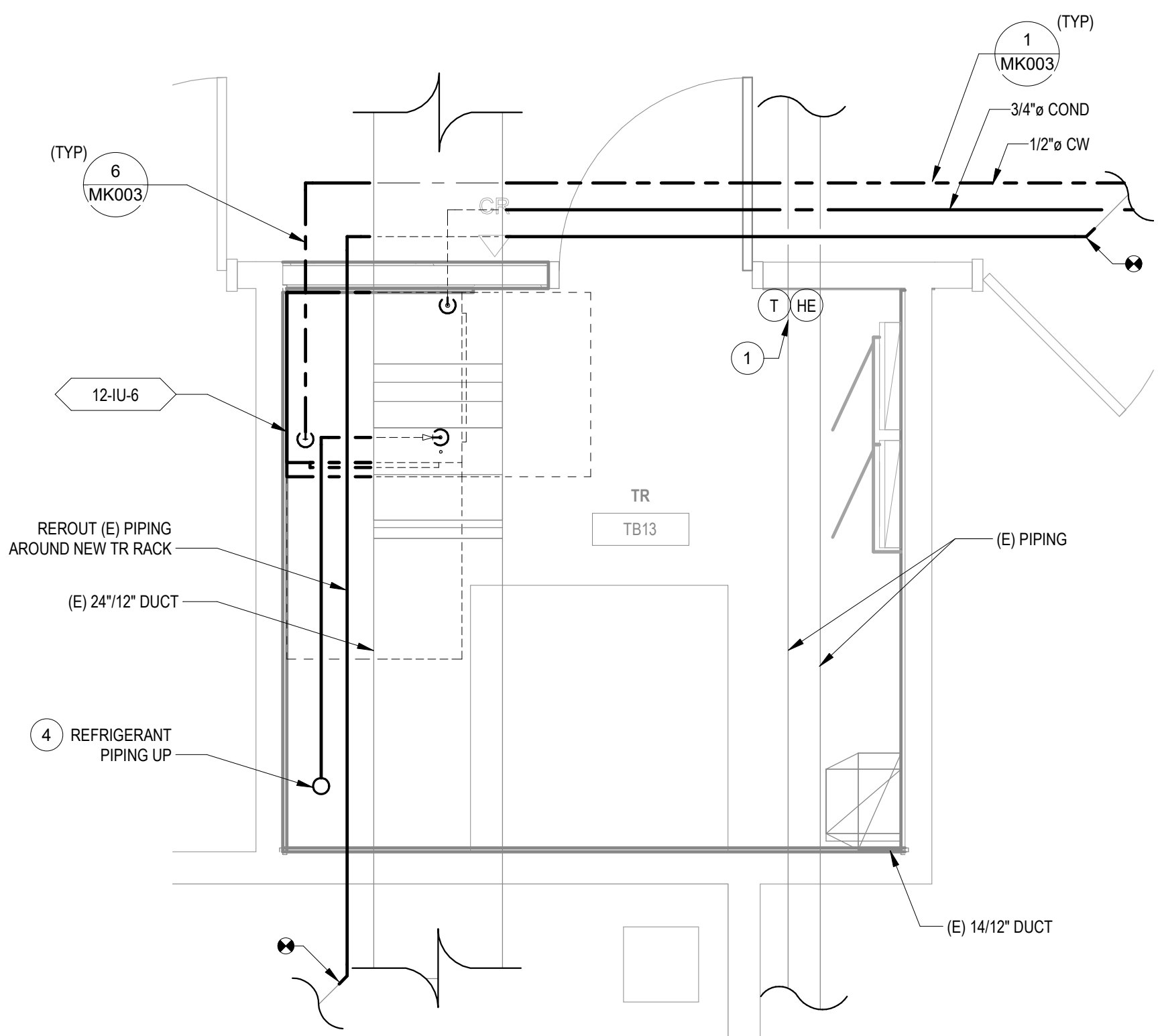
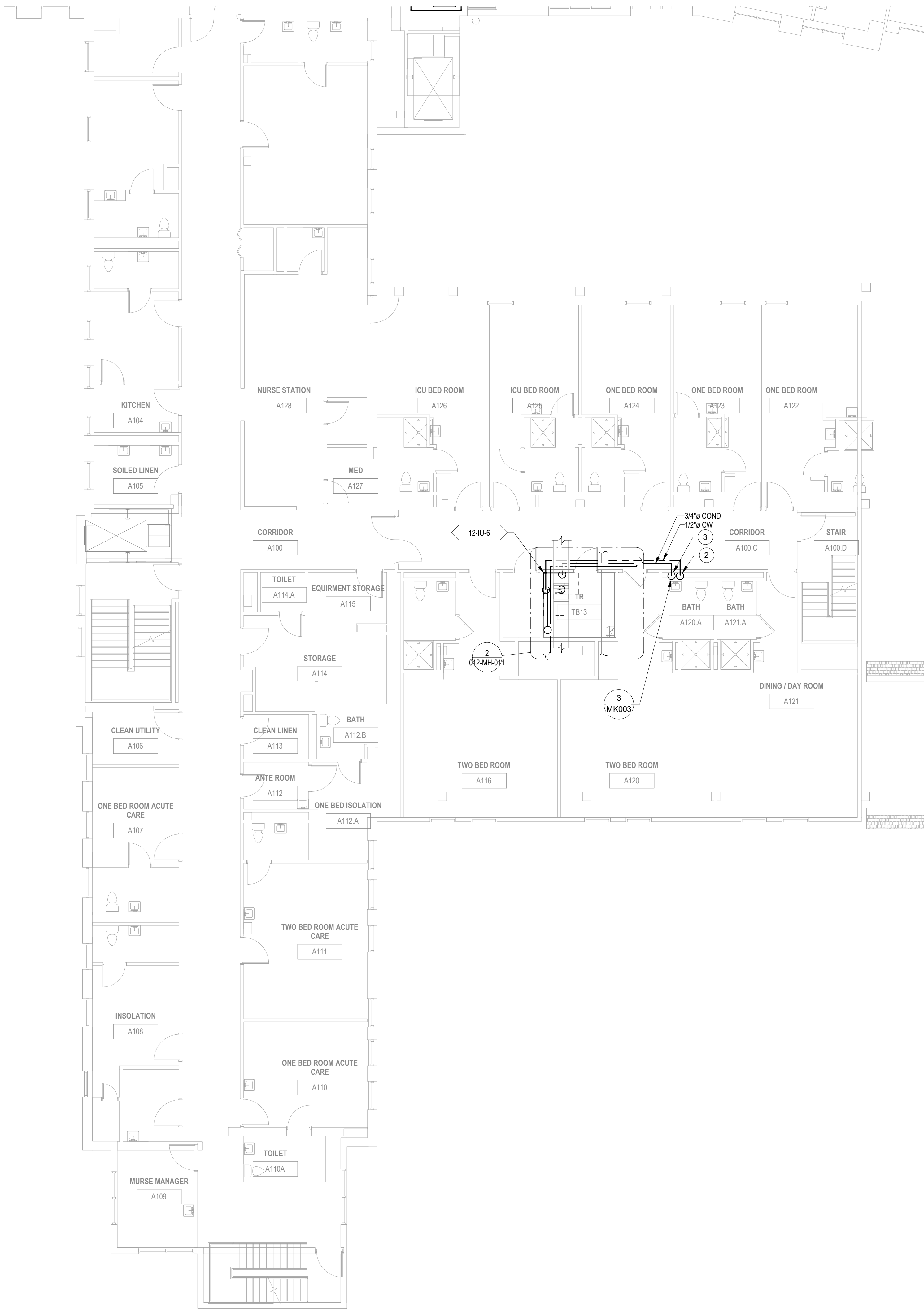
PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY

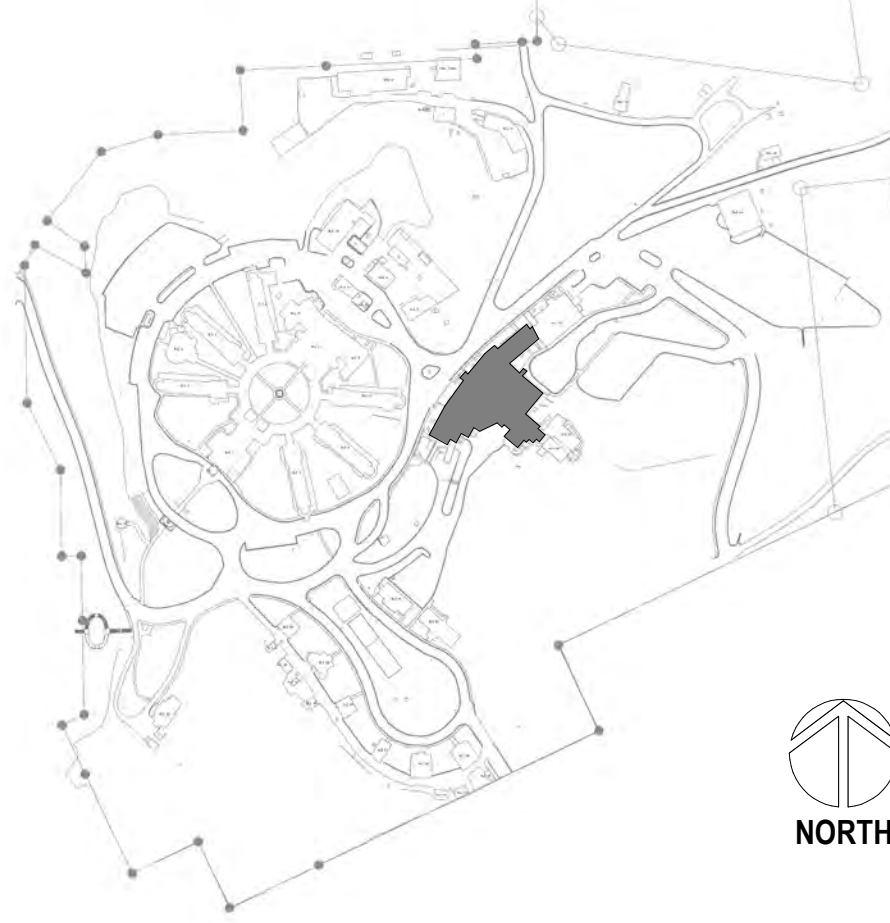
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568A4-21-702
BUILDING NUMBER
12
DRAWING NUMBER
012-MH-002

PLAN NOTES

- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 2 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION. WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 3 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION. REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 4

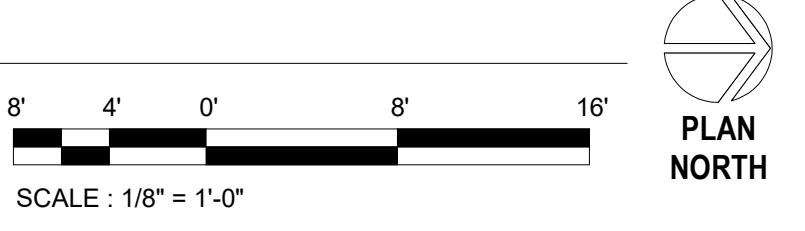


SITE LEGEND



1 BUILDING 12 FIRST FLOOR HVAC PLAN - SECTOR A  
1/8" = 1'-0"

2 ENLARGED ROOM - TB13 HVAC  
1/2" = 1'-0"



Revisions:	Date:

CONSULTANT

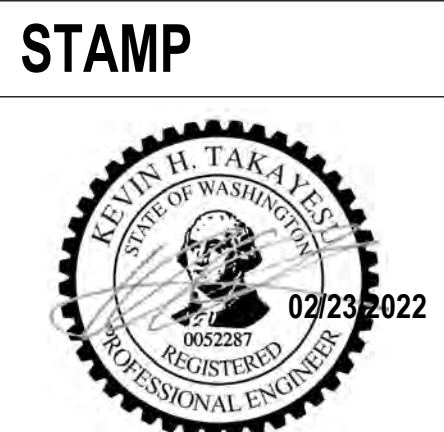
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PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

DRAWING TITLE  
12-FIRST FLOOR HVAC PLANS -  
SECTOR A

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
12

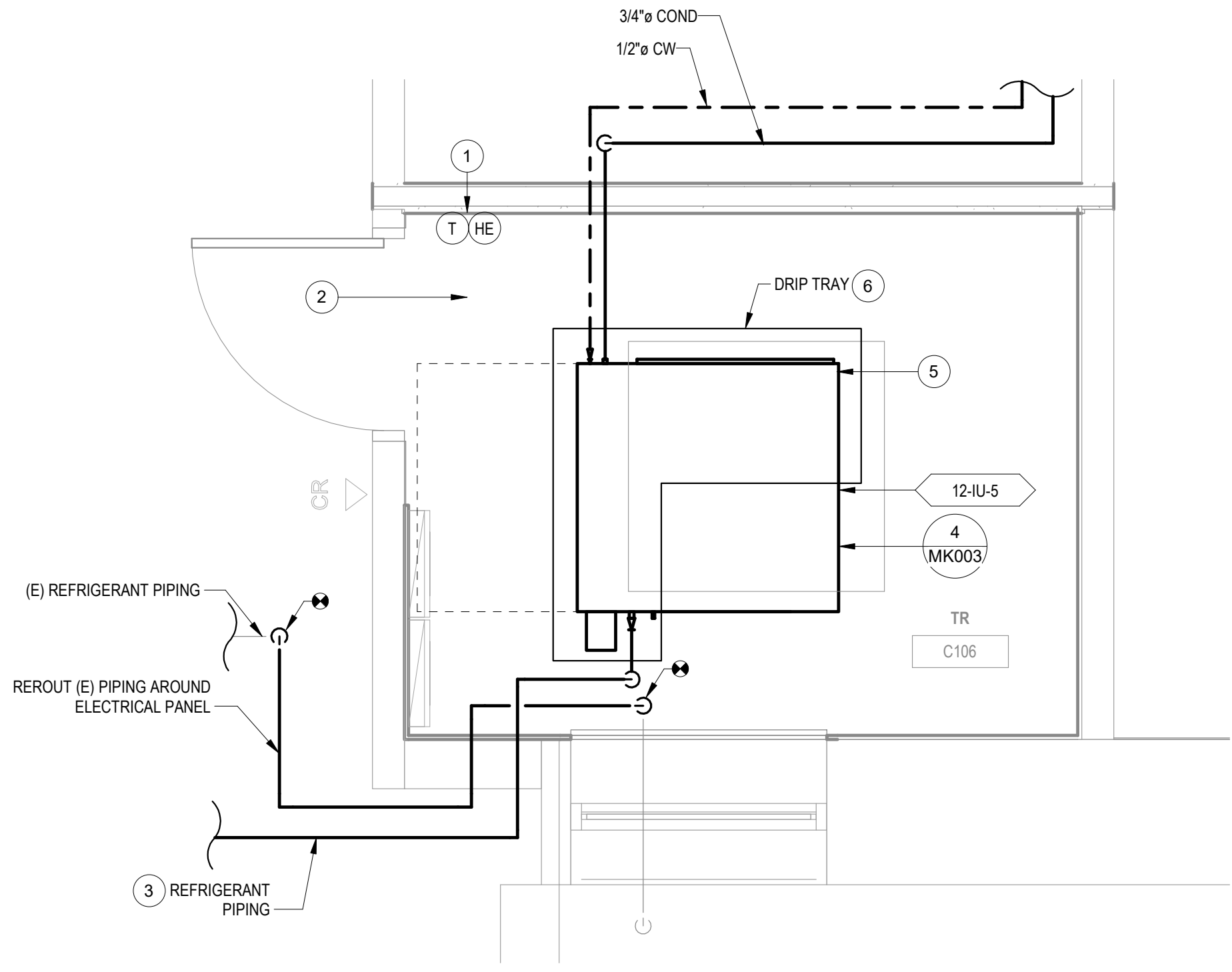
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PLAN NOTES

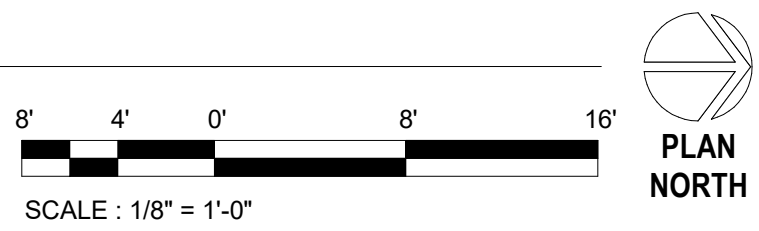
- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 2 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.
- 3 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 4 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION. WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 5 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.
- 6 PROVIDE DRIP TRAY WITH LEAK DETECTOR MONITORED BY AND CONNECTED TO DDC SYSTEM. ROUTE 3/4" CONDENSATE DRAIN FROM DRIP TRAY TO CONDENSATE PUMP. CONNECT PUMPED CONDENSATE DISCHARGE LINE INTO PUMPED CONDENSATE DISCHARGE LINE FROM INDOOR UNIT. CONDENSATE PUMP TO BE LOCATED ON WALL AND PROVIDED WITH A 120V CONNECTION.



2 ENLARGED ROOM - B105 HVAC  
1/2" = 1'-0"



1 BUILDING 12 FIRST FLOOR HVAC PLAN - SECTORS C/D  
1/8" = 1'-0"



Revisions:	Date:

**CONSULTANT**

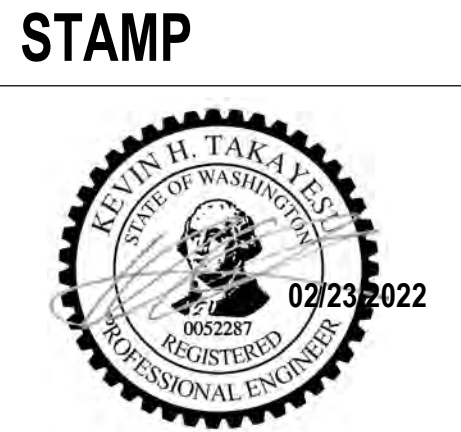
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JESSE BARKSDALE

**GDM**  
ARCHITECTS • ENGINEERS

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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

VA U.S. Department of Veterans Affairs

DRAWING TITLE  
12-FIRST FLOOR HVAC PLANS - SECTOR C/D

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

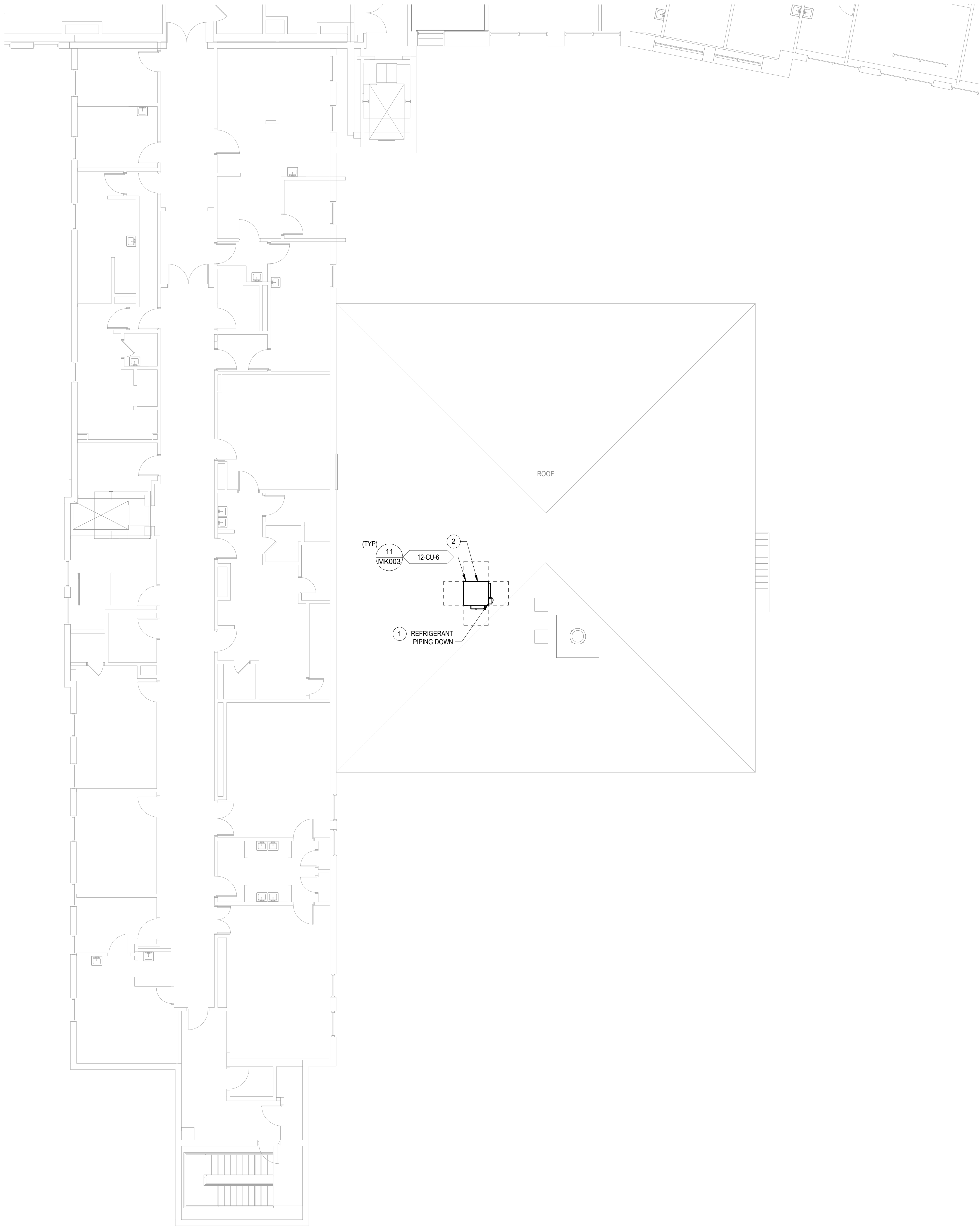
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PROJECT NUMBER  
568A4-21-702

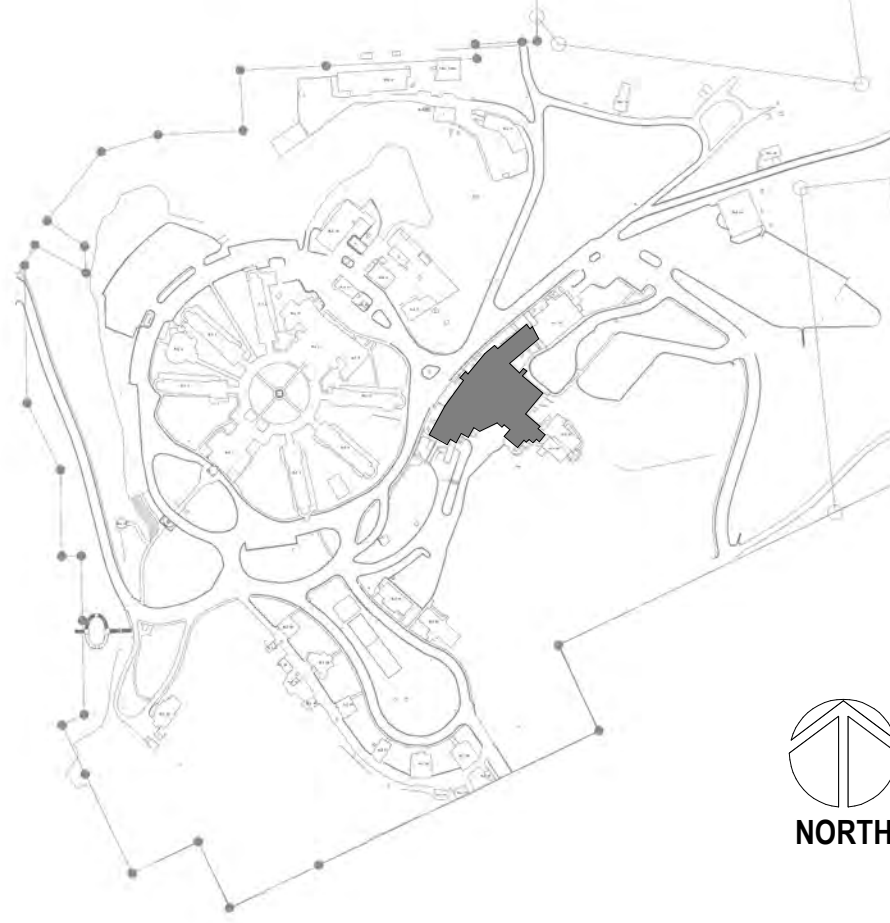
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DRAWING NUMBER  
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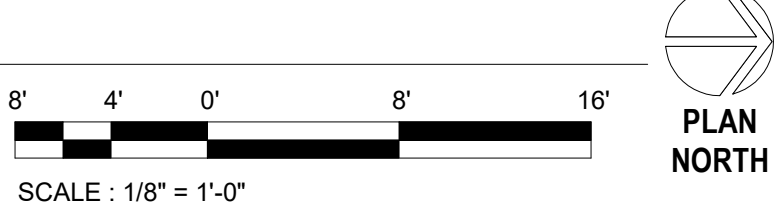
- PLAN NOTES
- 1 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
  - 2 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL EQUIPMENT ROOF SUPPORT DETAIL.



SITE LEGEND



1 BUILDING 12 SECOND FLOOR HVAC PLAN - SECTORS A  
1/8" = 1'-0"



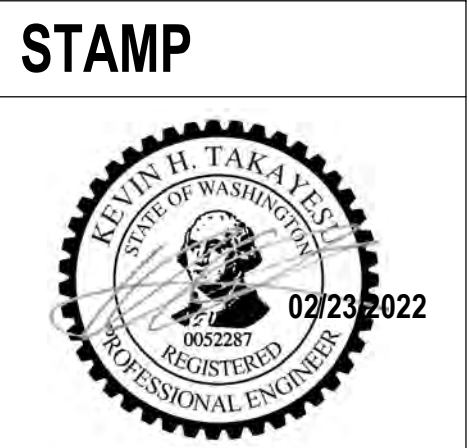
Revisions:	Date:

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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE  
12-SECOND FLOOR HVAC PLANS - SECTOR A

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
FULLY SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
12

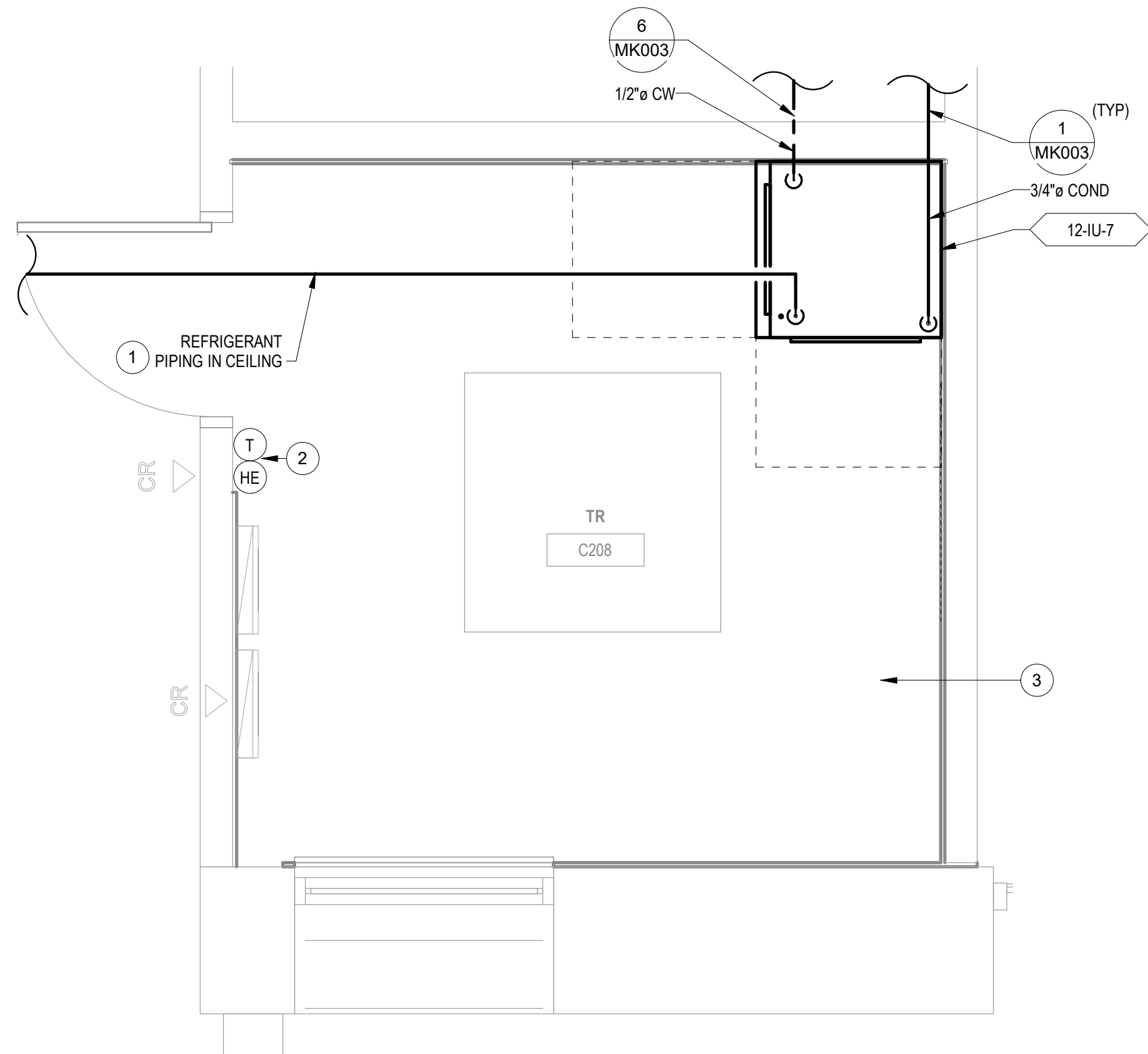
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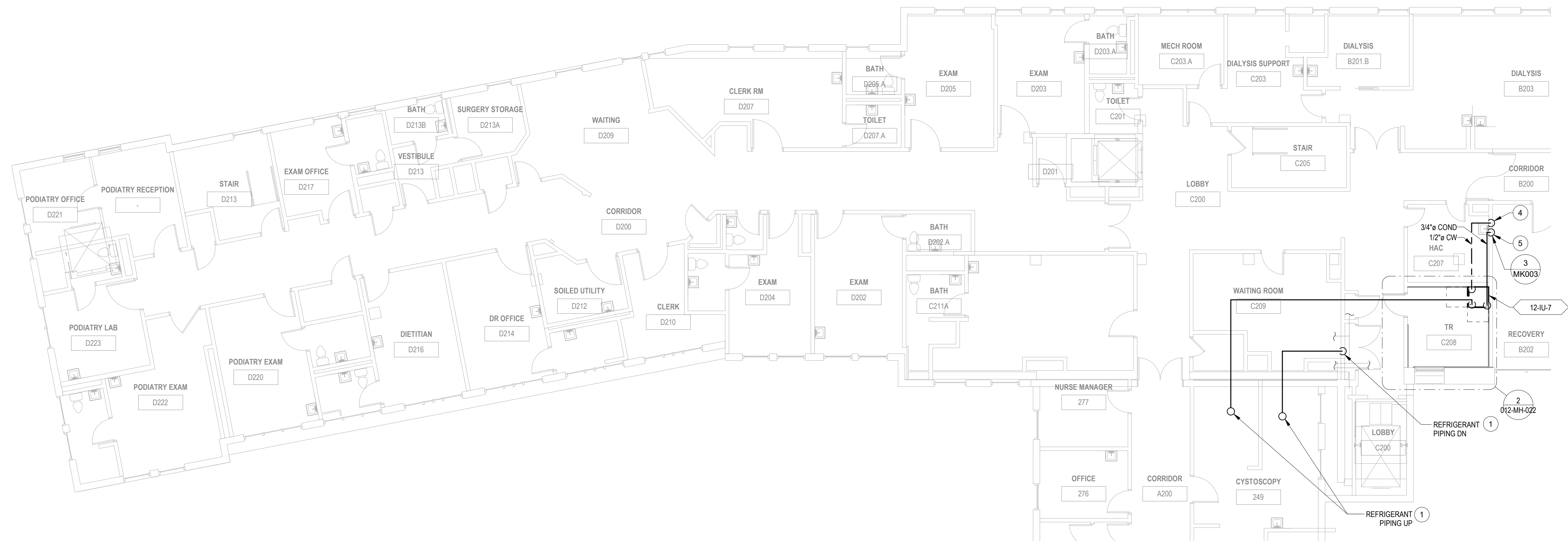


## PLAN NOTES

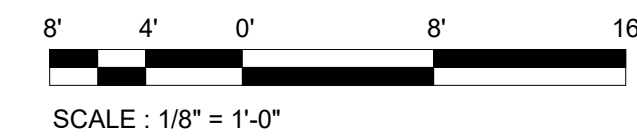
- 2 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.
- 3 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 4 PROVIDE FIRE CAULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.
- 5 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION. WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING FIXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 6 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.



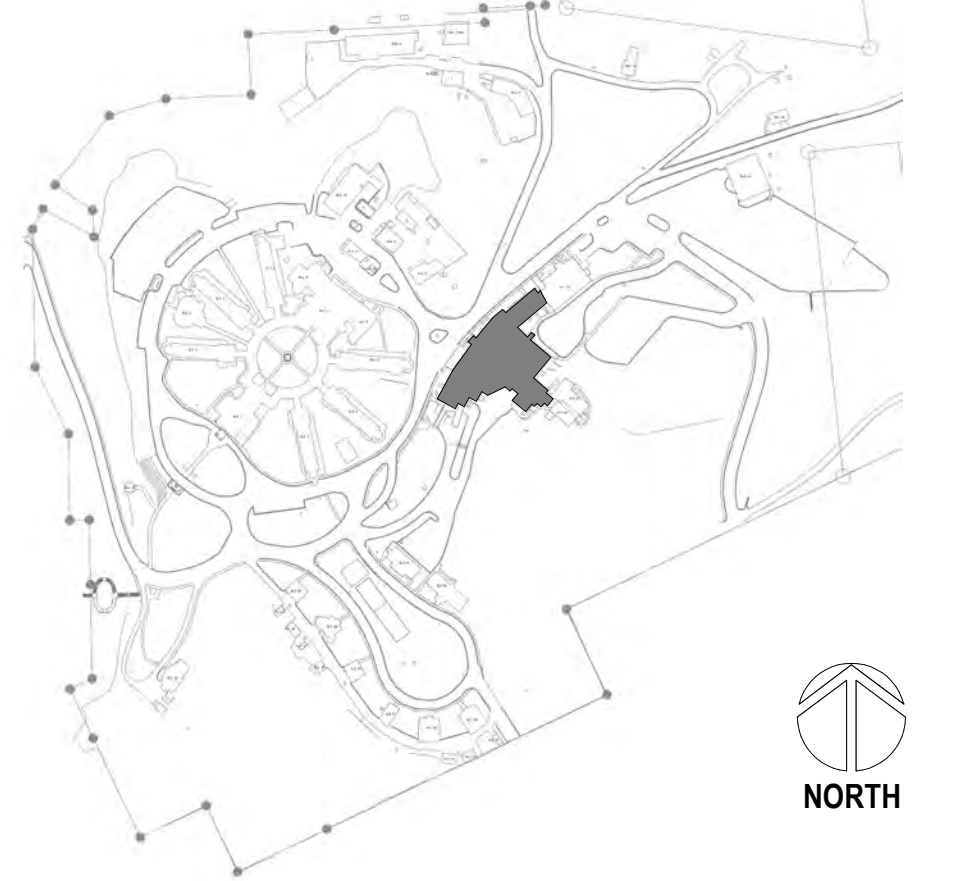
2 ENLARGED ROOM - C208 HVAC  
1/2" = 1'-0"



1 BUILDING 12 SECOND FLOOR HVAC PLAN - SECTORS C/D  
1/8" = 1'-0"



## SITE LEGEND

[illegible]

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**GDM**  
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**GDM**  
ARCHITECTS - ENGINEERS

**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

<p>DRAWING TITLE</p> <p>12-SECOND FLOOR HVAC PLANS - SECTOR C/D</p>	
<p>APPROVED:</p>	

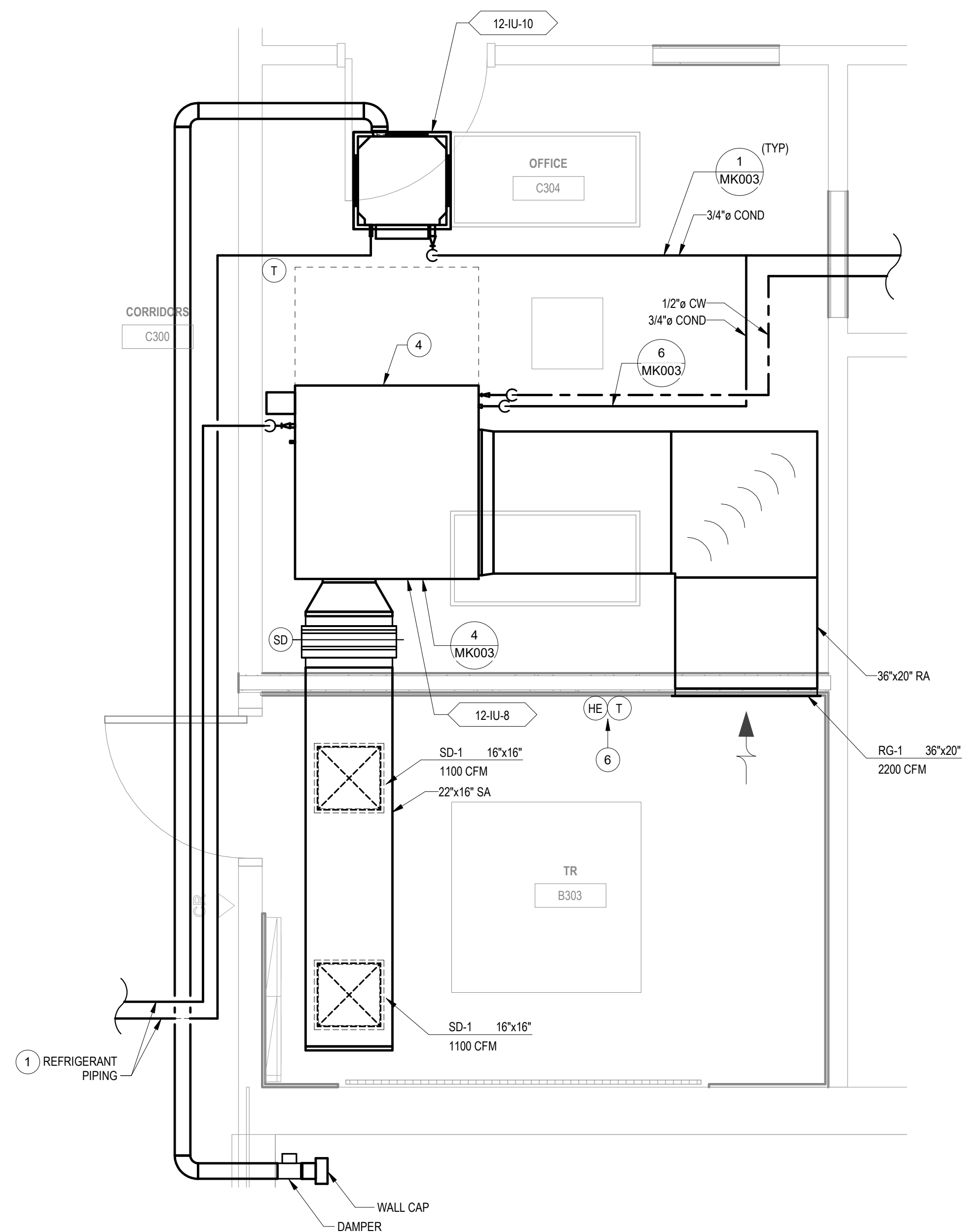
PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

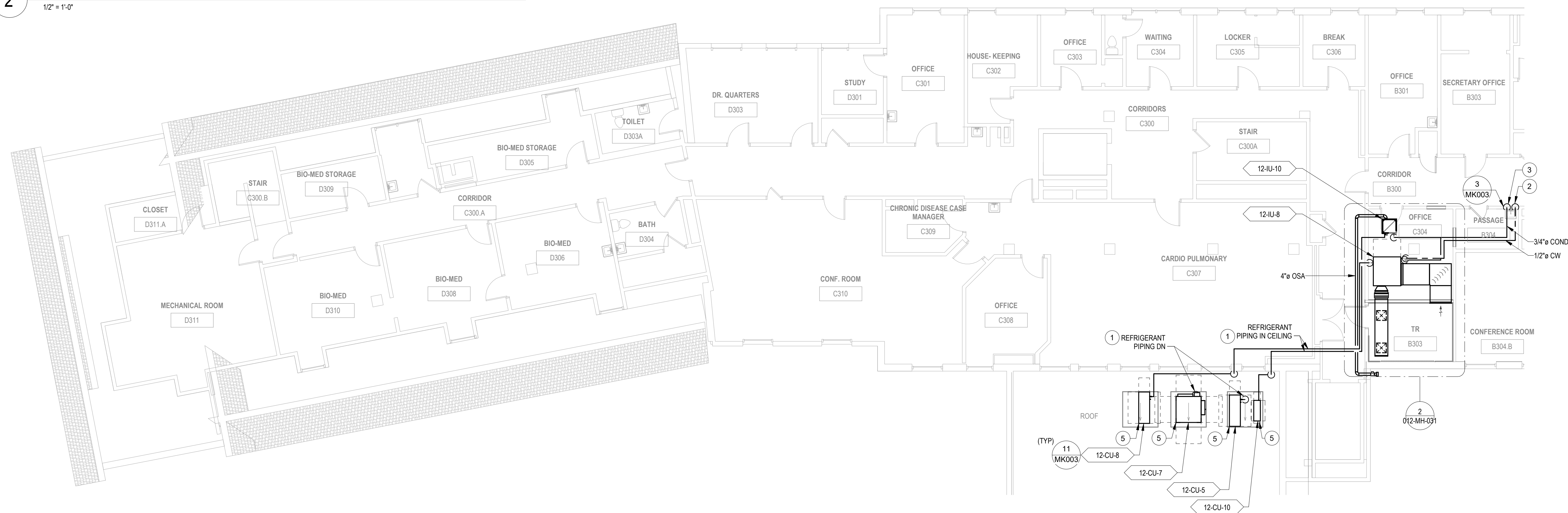
PROJECT NUMBER  
568A4-21-702

BUILDING NUMBER  
12

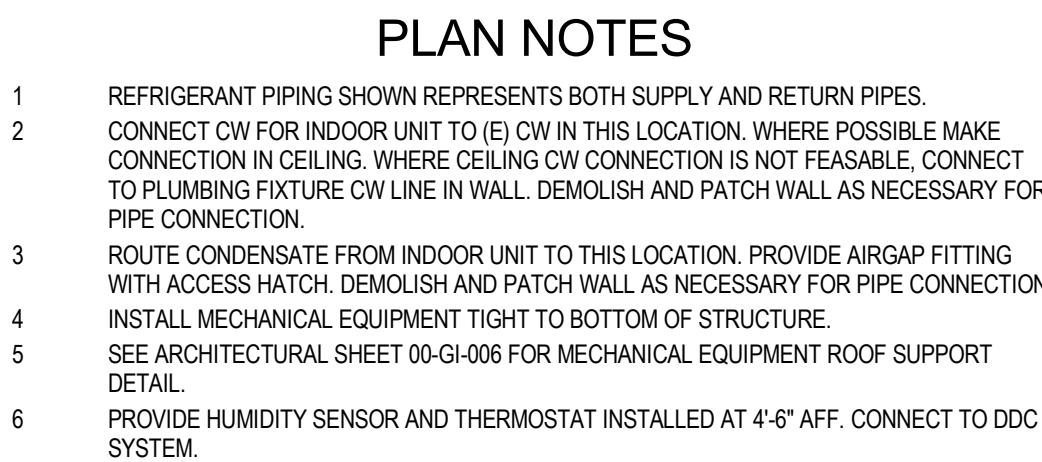
DRAWING NUMBER  
012-MH-022



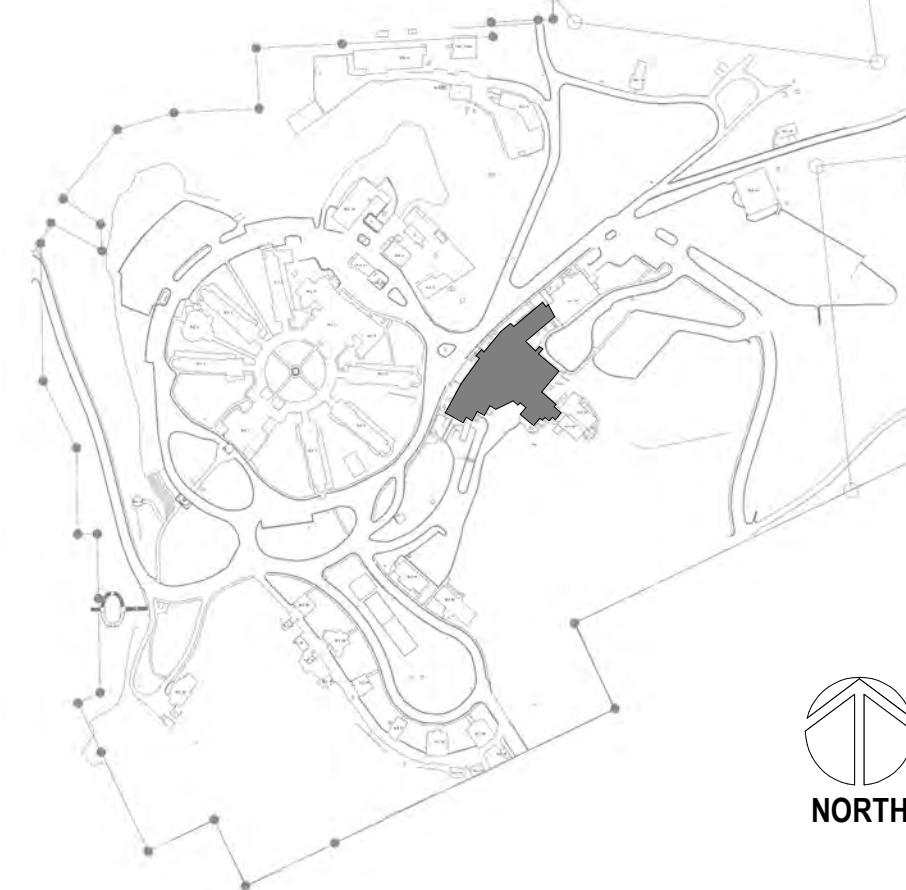
2 ENLARGED ROOM - B303 HVAC  
1/2" = 1'-0"

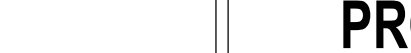



1 BUILDING 12 THIRD FLOOR HVAC PLAN - SECTORS C/D  
1/8" = 1'-0"



## SITE LEGEND

[illegible]

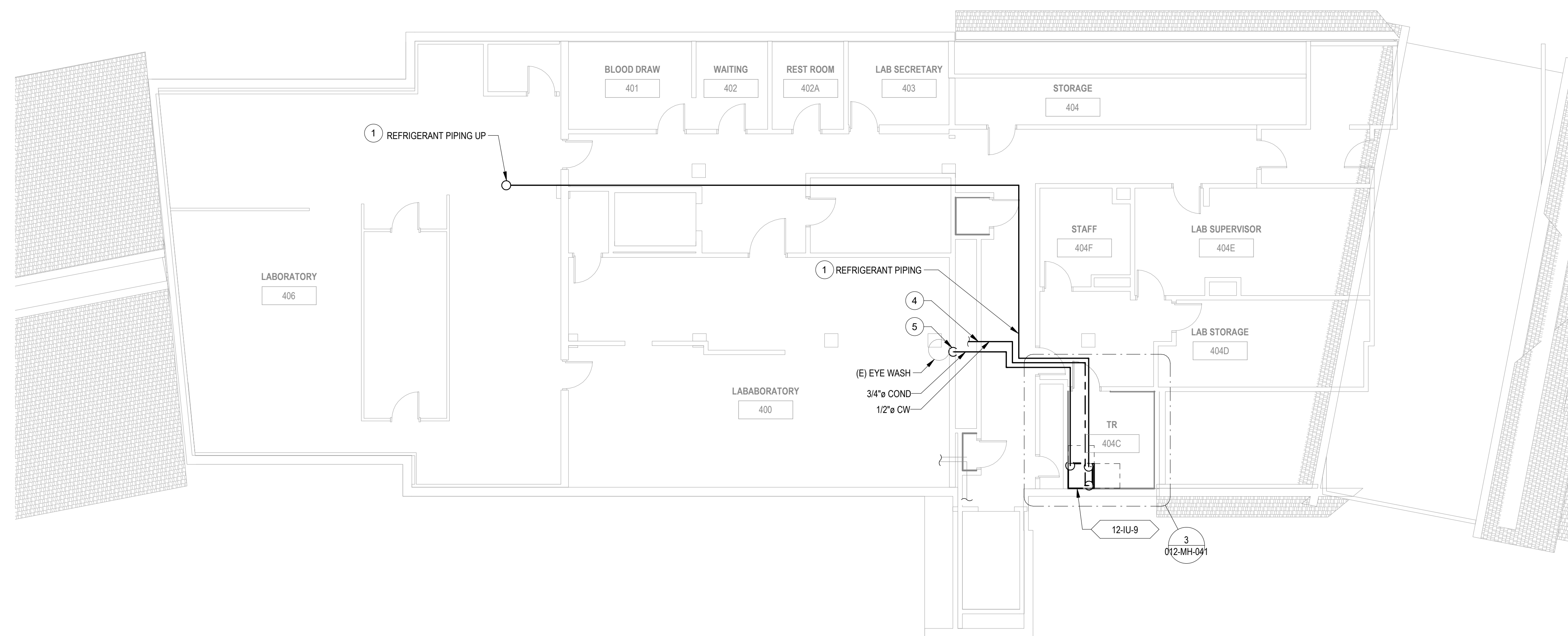
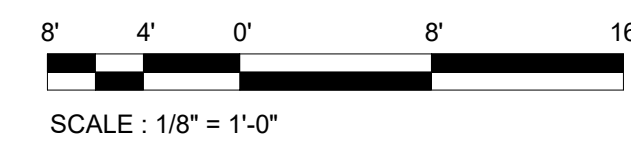
<b>CONSULTANT</b> A/E GDM 1584 McNeil St, Suite 200 DuPont, WA 98327 360.318.7095 JESSE BARKSDALE		<b>ARCHITECT/ENGINEER OF RECORD</b> ARCHITECT GDM 1000 W STEUBEN ST. UNIT 3 BINGEN, WA 98605 541.436.4723 ADAM GODDIN, PE		<b>STAMP</b> 		<b>PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)</b>  U.S. Department of Veterans Affairs		<b>DRAWING TITLE</b> 12-THIRD FLOOR HVAC PLANS - SECTOR C/D <b>APPROVED:</b>		<b>PHASE</b> 100% CD FINAL SOLUTION <b>FLS</b> FULLY SPRINKLERED		<b>PROJECT TITLE</b> EHRM INFRASTRUCTURE UPGRADES <b>LOCATION</b> HOT SPRINGS, SOUTH DAKOTA <b>ISSUE DATE</b> 02/23/2022			<b>CHECKED BY</b> KHT		<b>DRAWN BY</b> KBT		<b>PROJECT NUMBER</b> 568A4-21-702 <b>BUILDING NUMBER</b> 12 <b>DRAWING NUMBER</b> <b>012-MH-031</b>	
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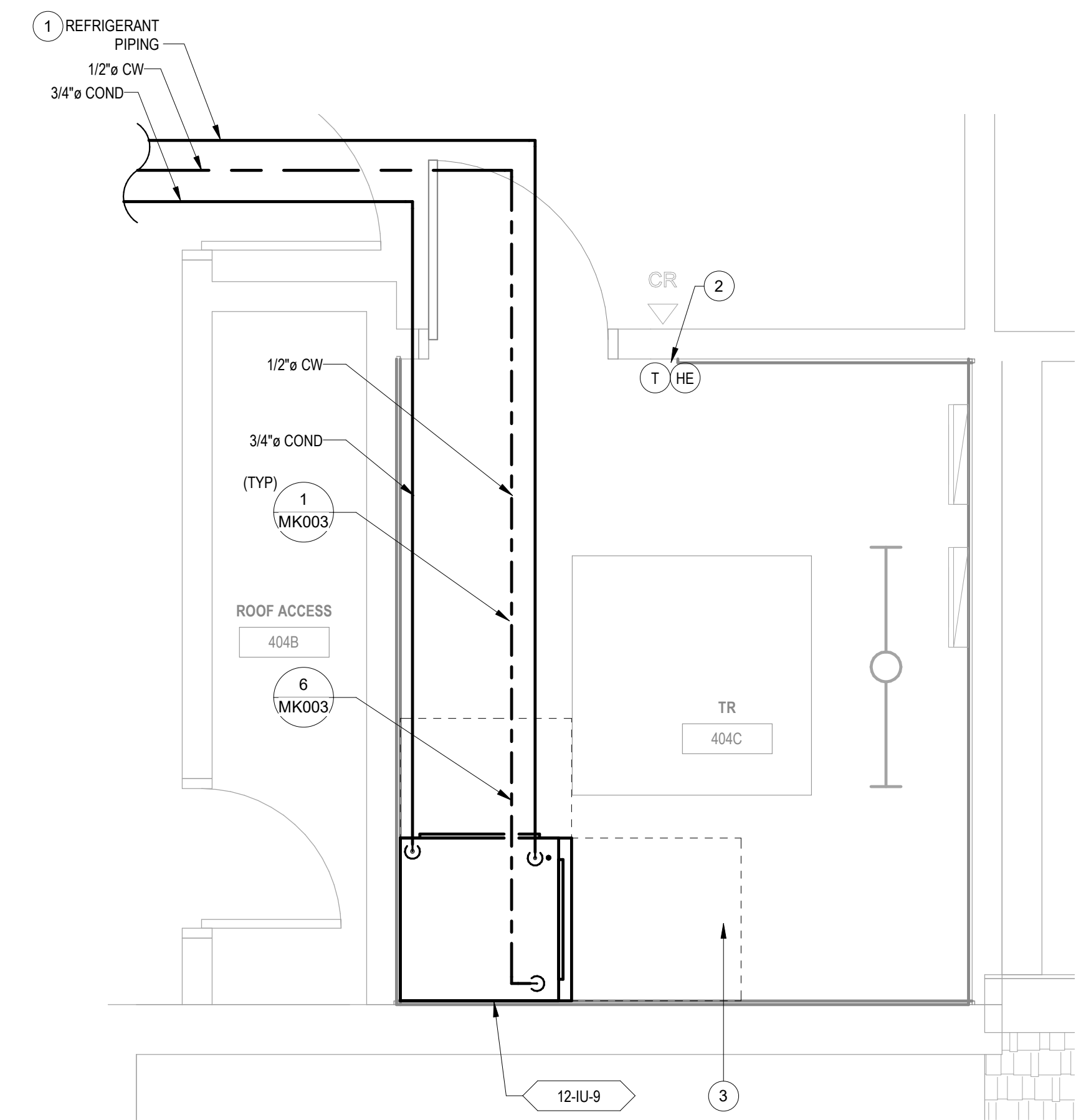
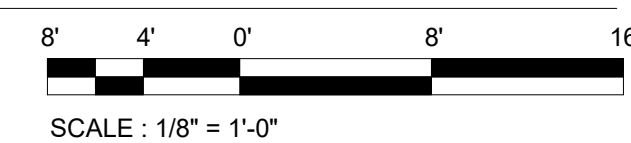
## PLAN NOTES

- 2 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
3 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.  
4 PROVIDE FIRE CALULKING FOR ALL NEW PIPE PENETRATIONS OF RATED WALL ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR FIRE RATED WALL LOCATIONS.  
5 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION, WHERE POSSIBLE MAKE CONNECTION IN CEILING, WHERE GELING CW CONNECTION IS NOT FEASIBLE, CONNECT TO EXISTING FIXTURE OR LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.  
6 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE ADRG FITTING, CONDENSATE HATCH, DRAINAGE AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.  
7 SEE ARCHITECTURAL SHEET 06-006F FOR MECHANICAL EQUIPMENT ROOM SUPPORT DETAIL.

2 BUILDING 12 4TH FLOOR ROOF HVAC PLAN  
1/8" = 1'-0"

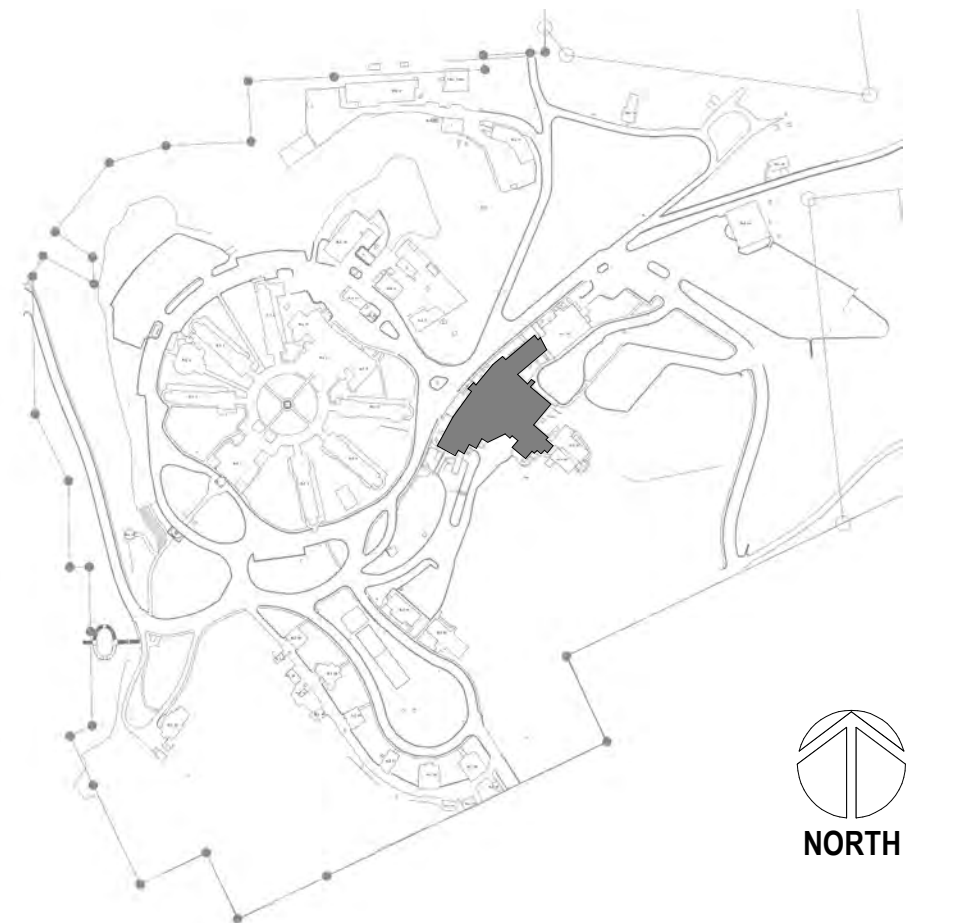


1 BUILDING 12 FOURTH FLOOR HVAC PLAN  
1/8" = 1'-0"



3 ENLARGED ROOM - 404C HVAC  
1/2" = 1'-0"

## SITE LEGEND

[illegible]

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ARCHITECTS + ENGINEERS

**STAMP**

 02/23/2022

**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE

12-FOURTH FLOOR AND ROOF  
HVAC PLANS - SECTOR C/D

APPROVED:

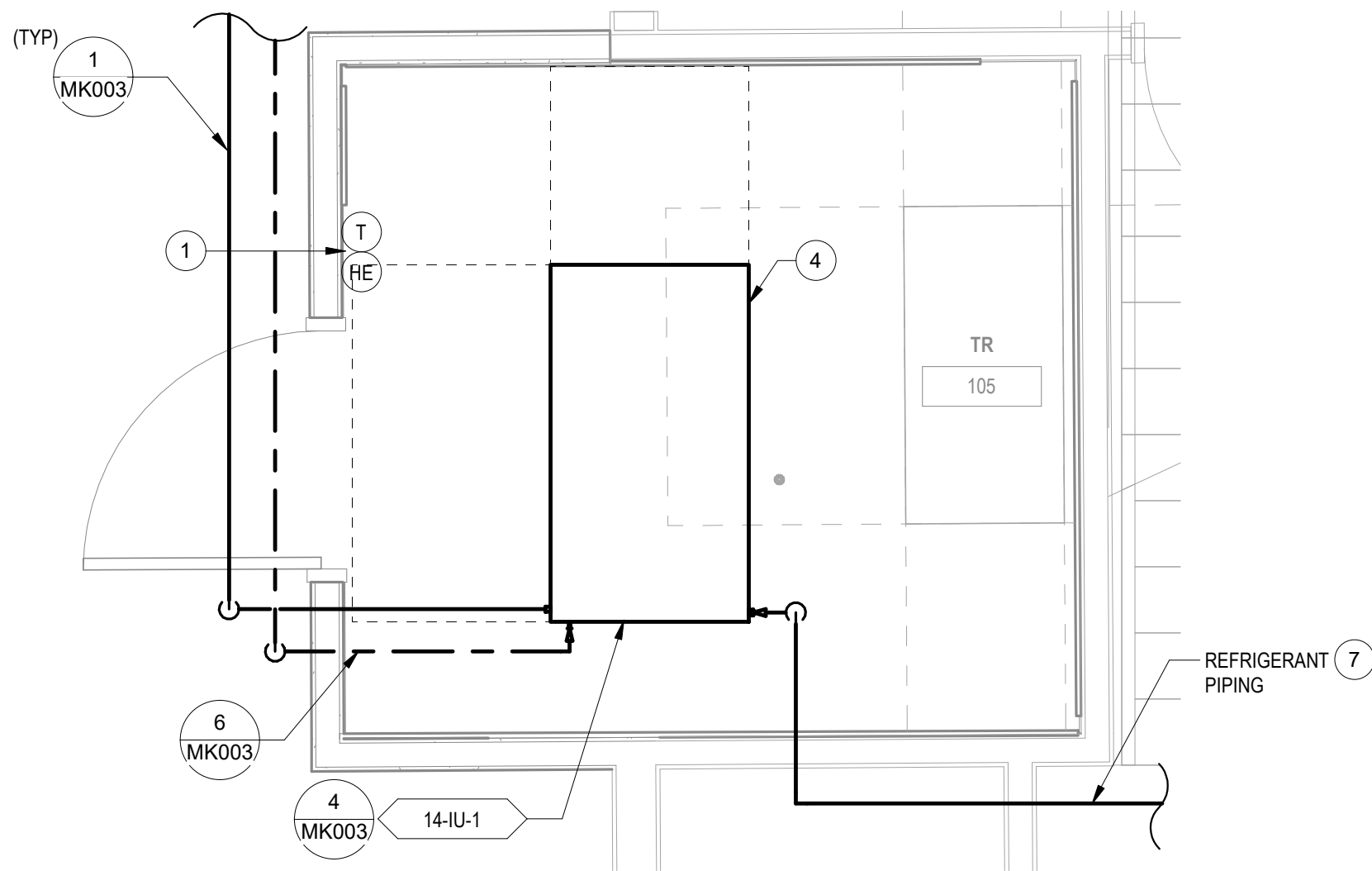
PHASE	100% CD FINAL SOLUTION
FLS	FULLY SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

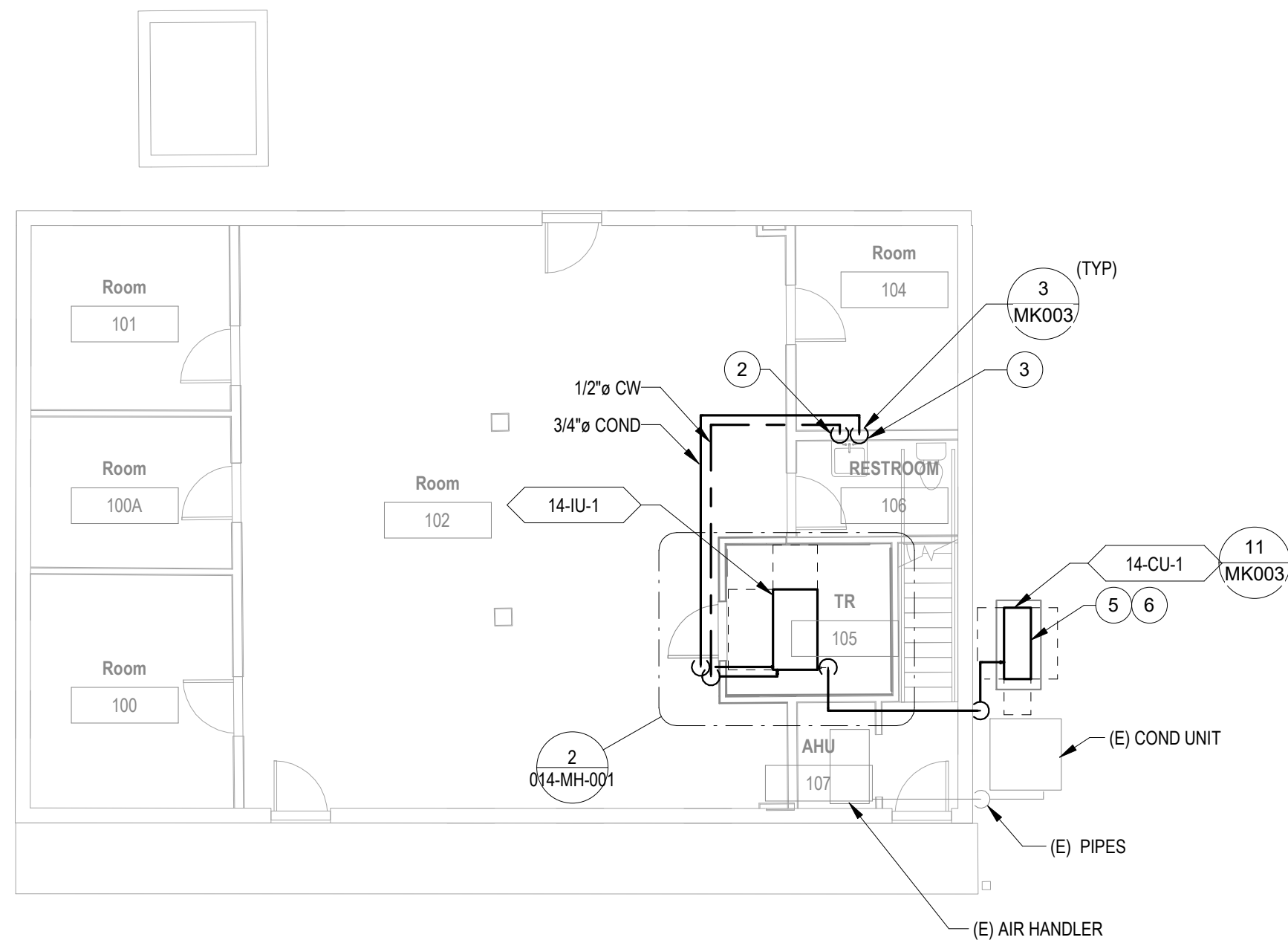
PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
12
DRAWING NUMBER
012-MH-041

PLAN NOTES

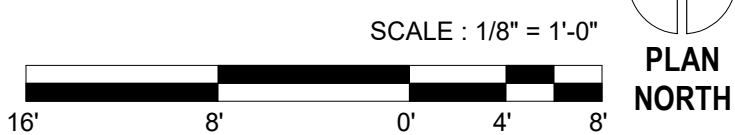
- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.
- 2 CONNECT CW FOR INDOOR UNIT TO (E) CW IN THIS LOCATION. WHERE POSSIBLE MAKE CONNECTION IN CEILING. WHERE CEILING CW CONNECTION IS NOT FEASIBLE, CONNECT TO PLUMBING TEXTURE CW LINE IN WALL. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 3 ROUTE CONDENSATE FROM INDOOR UNIT TO THIS LOCATION. PROVIDE AIRGAP FITTING WITH ACCESS HATCH. DEMOLISH AND PATCH WALL AS NECESSARY FOR PIPE CONNECTION.
- 4 INSTALL MECHANICAL EQUIPMENT TIGHT TO BOTTOM OF STRUCTURE.
- 5 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL UNIT PROTECTION DETAIL.
- 6 SEE CIVIL SHEET CJ0002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.
- 7 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.



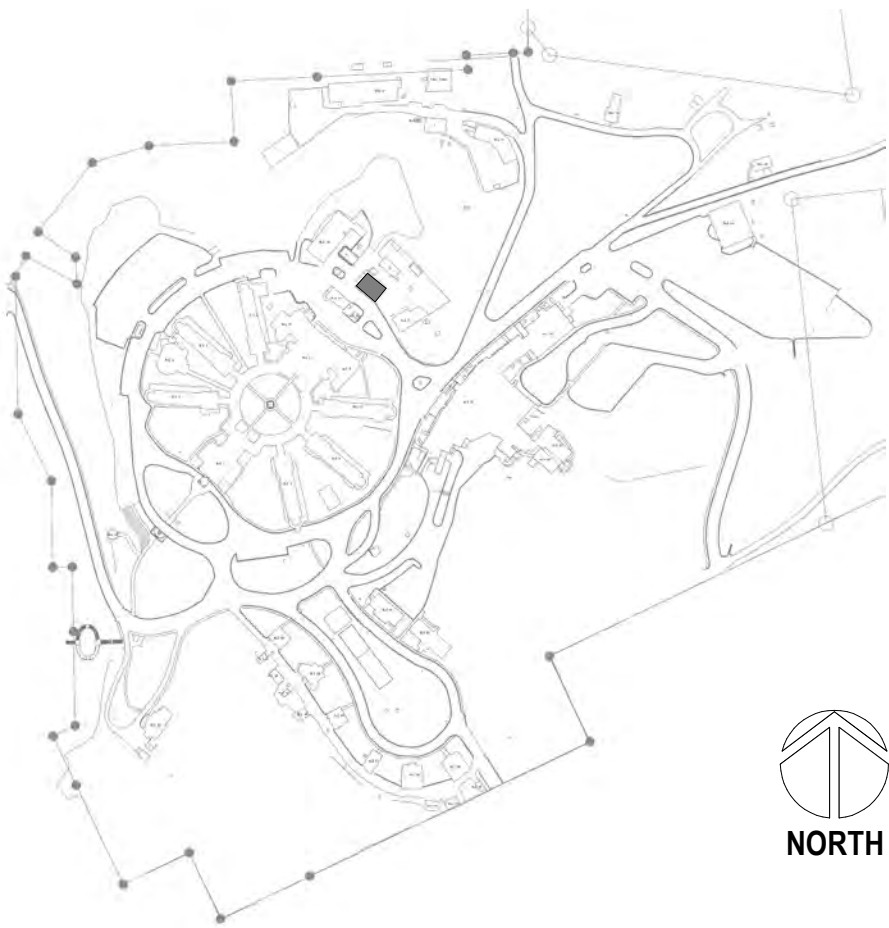
2 ENLARGED PLAN - ROOM 105 HVAC  
1/2" = 1'-0"



1 BUILDING 14 GROUND FLOOR PLAN - HVAC  
1/8" = 1'-0"



SITE LEGEND



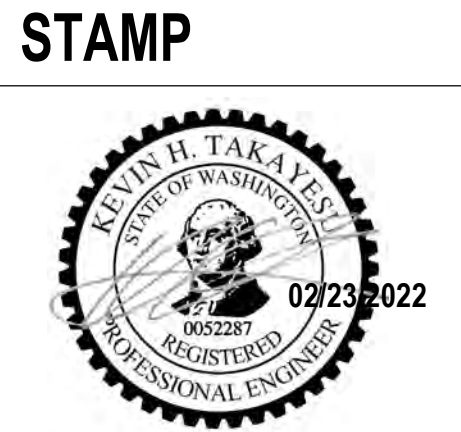
Revisions:	Date:

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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE 14-GROUND FLOOR HVAC PLANS
APPROVED:

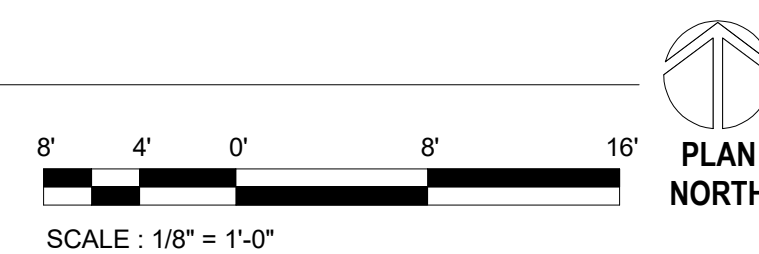
PHASE 100% CD FINAL SOLUTION
FLS NOT SPRINKLERED

PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES
LOCATION HOT SPRINGS, SOUTH DAKOTA
ISSUE DATE 02/23/2022
CHECKED BY KHT
DRAWN BY KBT

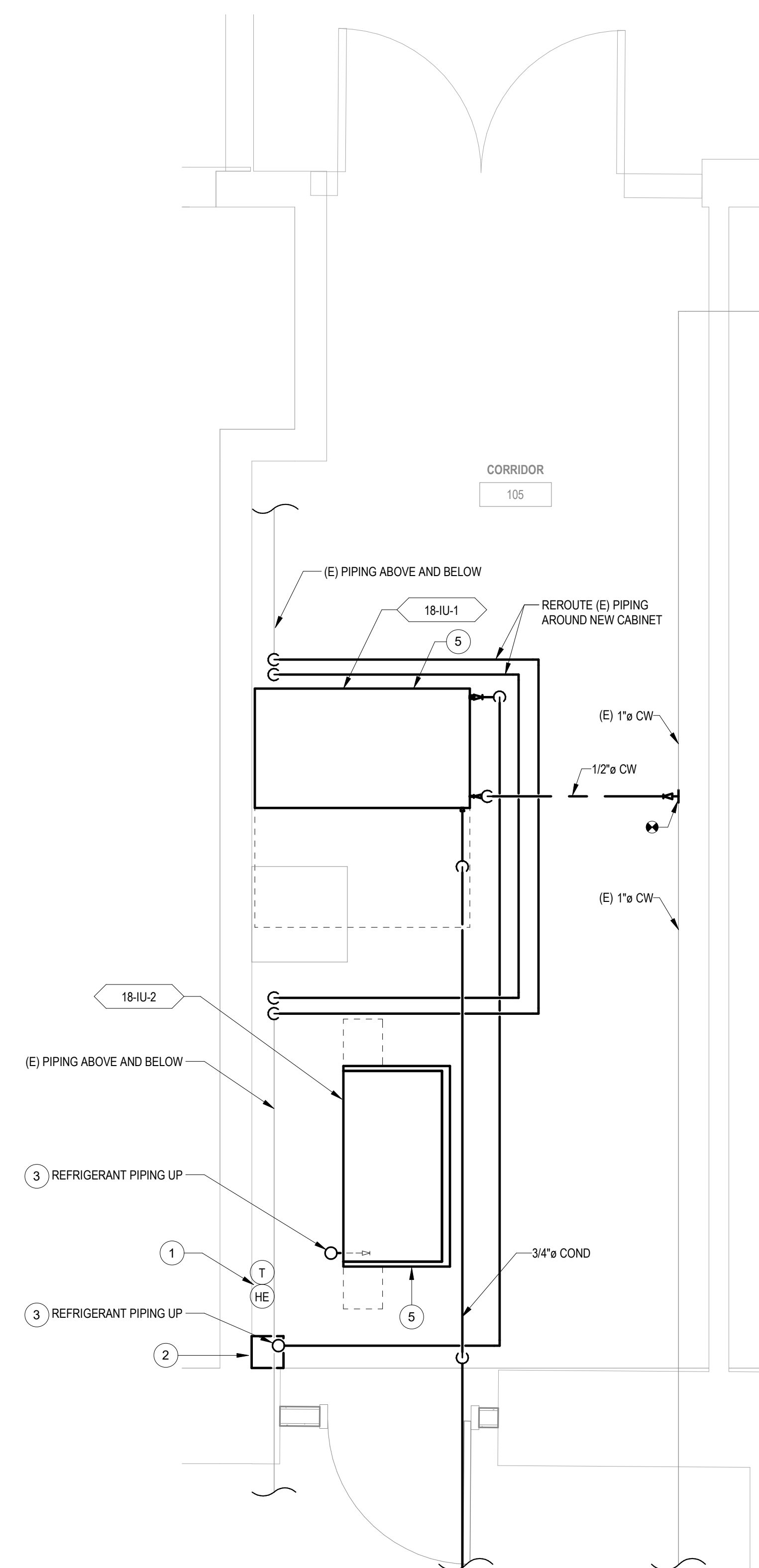
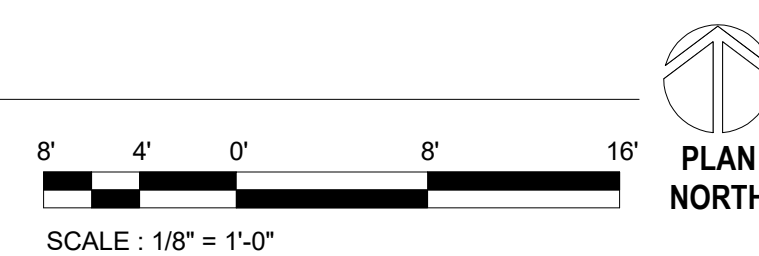
PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 14
DRAWING NUMBER 014-MH-001



3 BUILDING 18 UPPER MEZZANINE PLAN - HVAC  
1/8" = 1'-0"



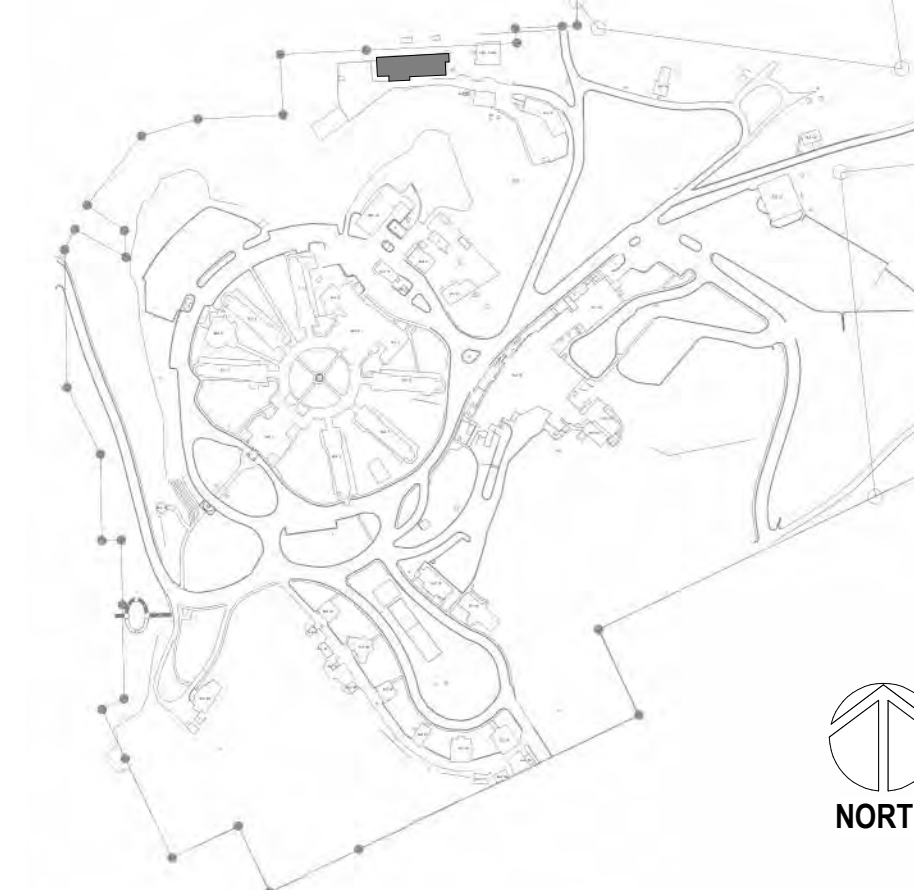
1 BUILDING 18 FIRST FLOOR PLAN - HVAC  
1/8" = 1'-0"



2 ENLARGED ROOM - 002 HVAC  
1/2" = 1'-0"

## SITE LEGEND

- ## SITE LEGEND

[illegible]

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**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

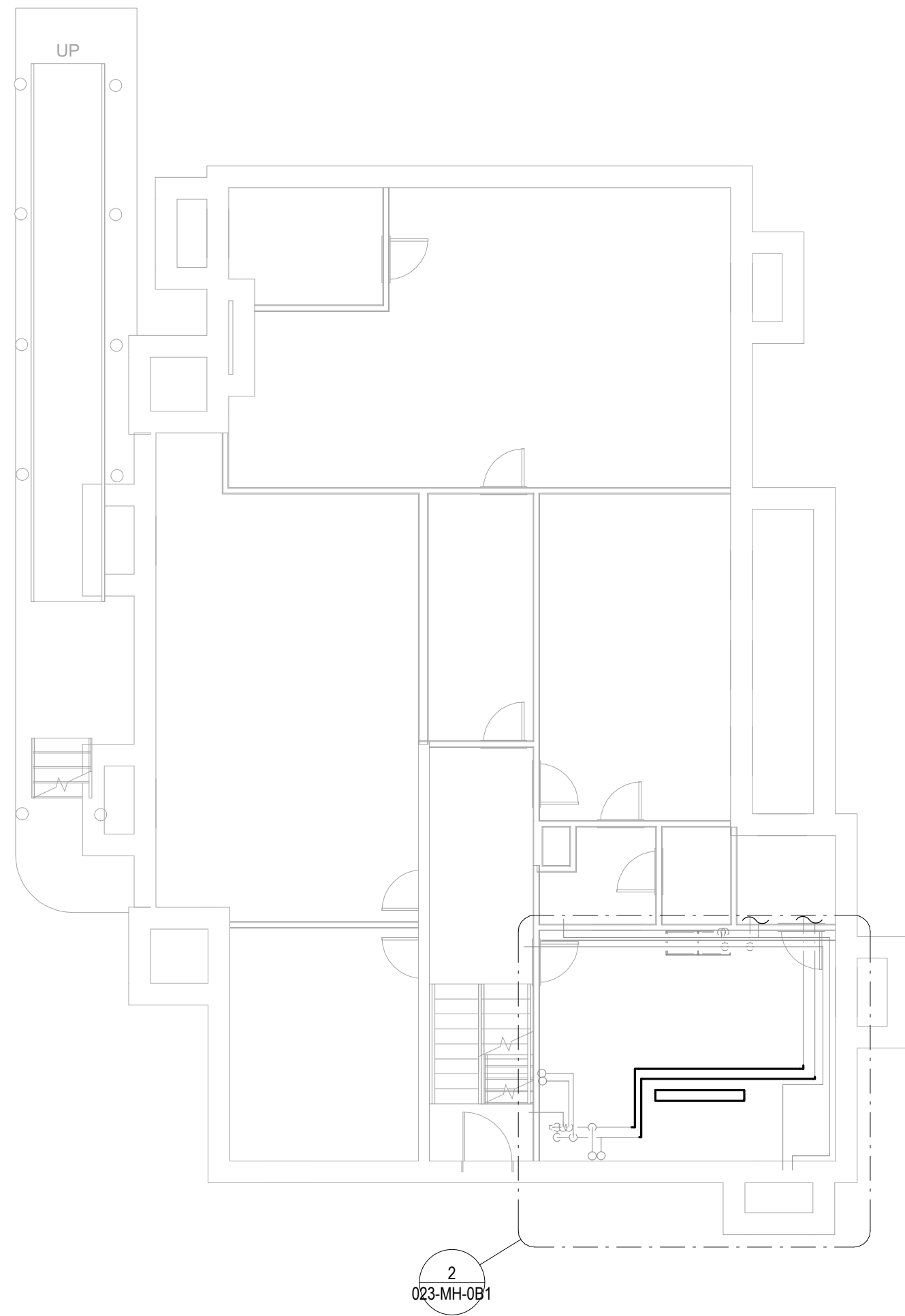
**VA** | U.S. Department  
of Veterans Affairs

DRAWING TITLE	
18-FIRST FLOOR AND MEZZANINE HVAC PLANS	
APPROVED:	

PHASE	100% CD FINAL SOLUTION
FLS	NOT SPRINKLERED

PROJECT TITLE		
EHRM INFRASTRUCTURE UPGRADES		
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER
568A4-21-702
BUILDING NUMBER
18
DRAWING NUMBER
018-MH-011



1

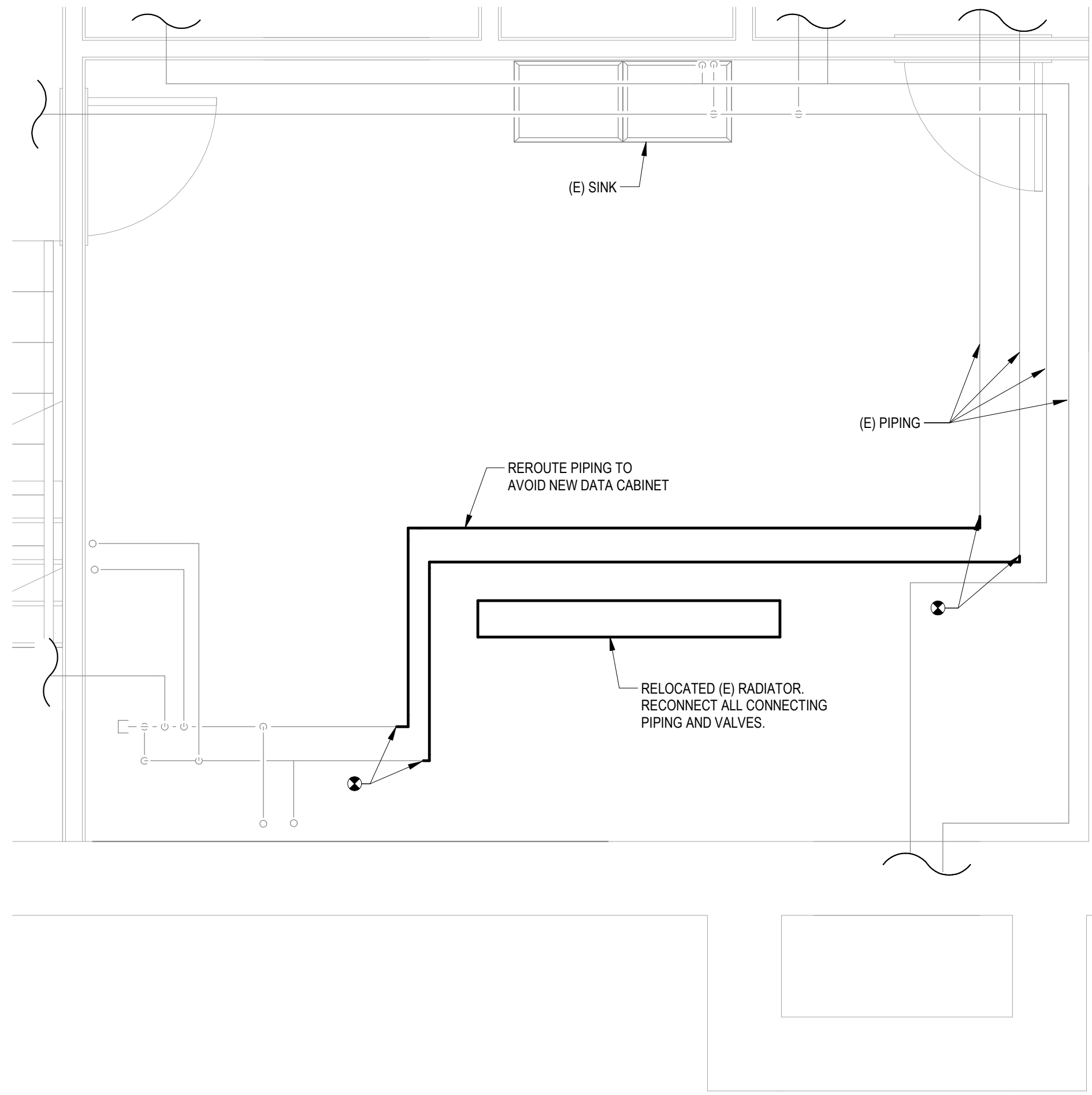
BUILDING 23 BASEMENT PLAN - HVAC

1/8" = 1'-0"

8' 4' 0' 8' 16'

SCALE : 1/8" = 1'-0"

PLAN NORTH

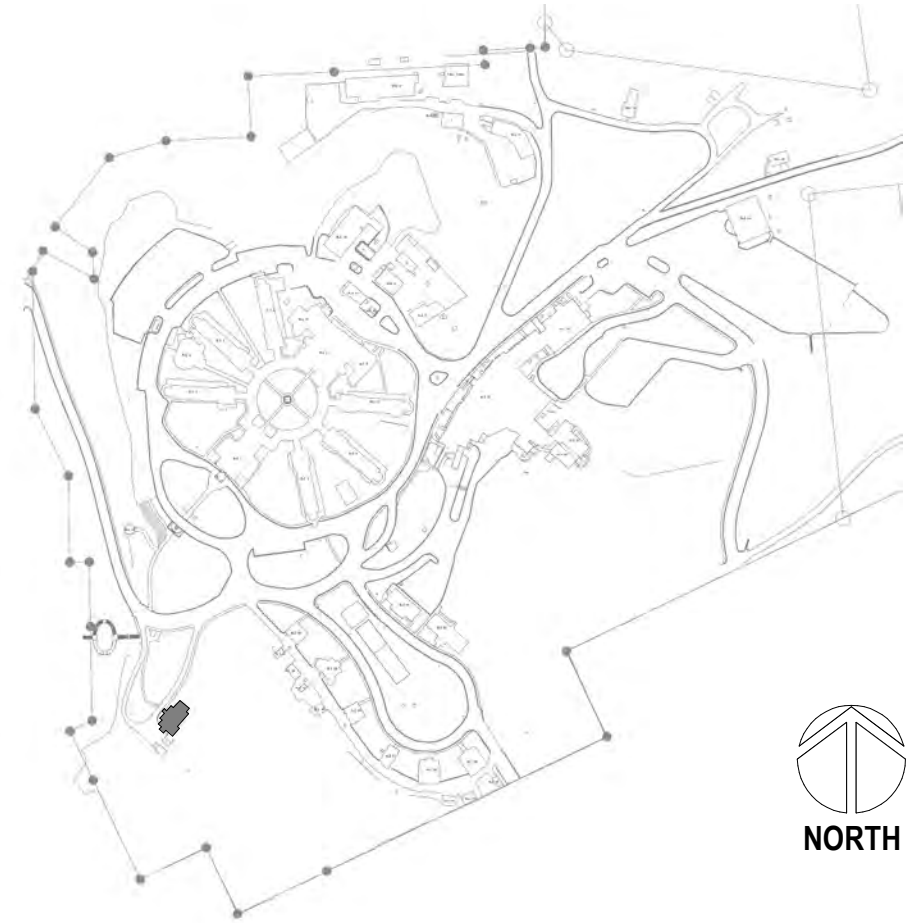


2

ENLARGED ROOM - BASEMENT HVAC

1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

CONSULTANT

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ARCHITECTS • ENGINEERS

STAMP

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REGISTERED ARCHITECT  
WASHINGTON  
02/23/2022

PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

DRAWING TITLE  
23-BASEMENT AND FIRST FLOOR  
HVAC PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
NOT SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA

ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702

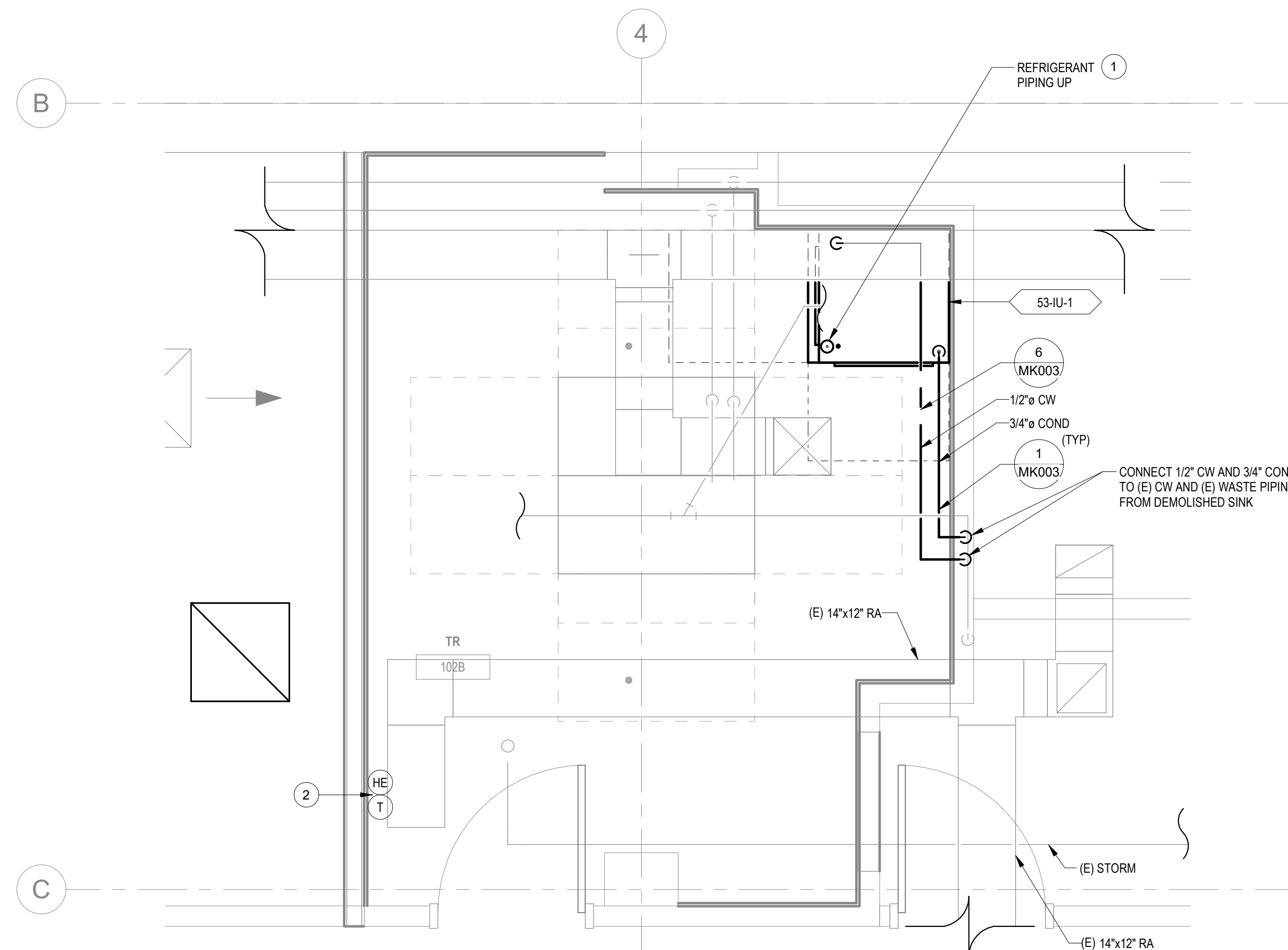
BUILDING NUMBER  
23

DRAWING NUMBER  
023-MH-0B1

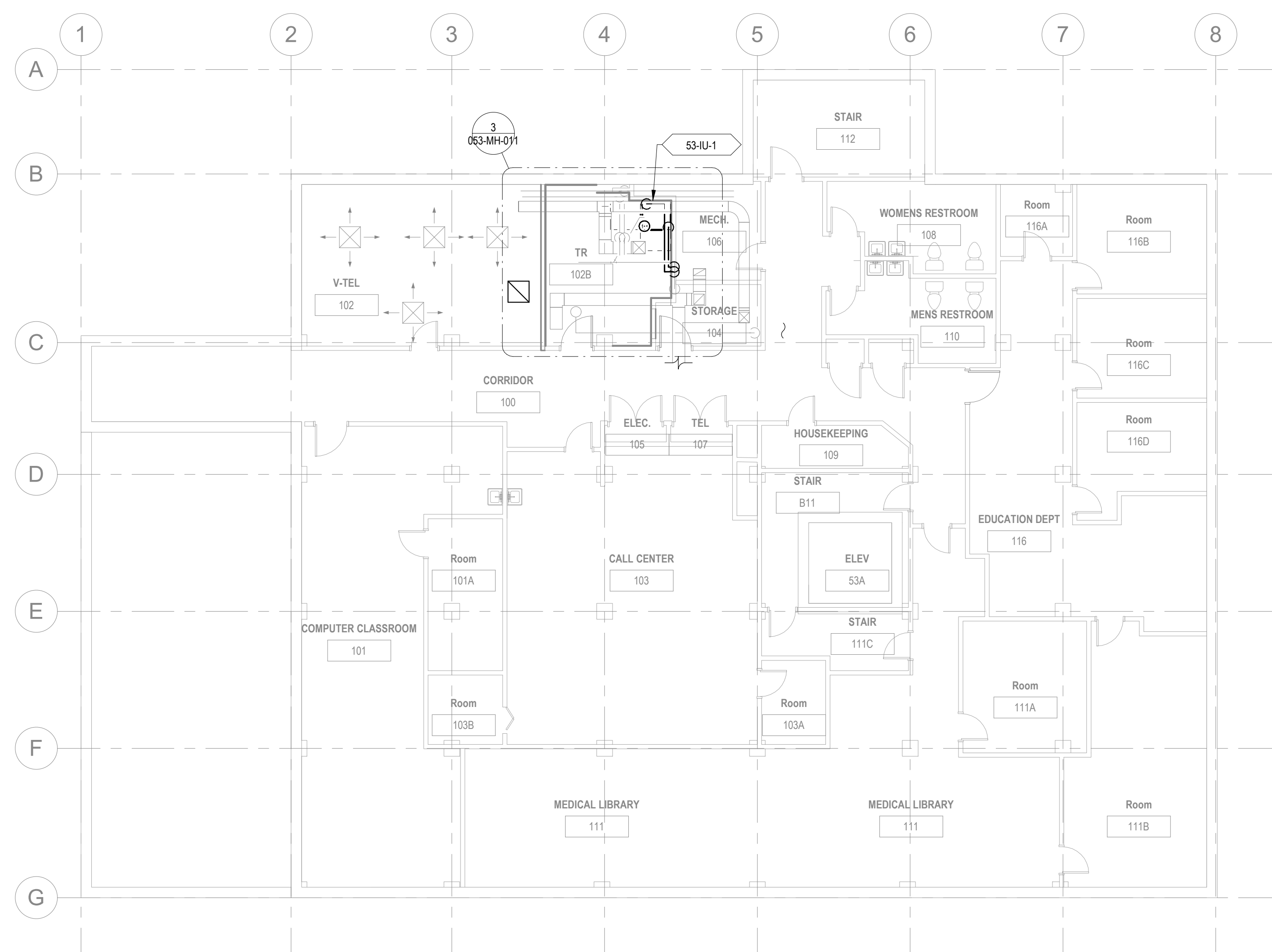


## PLAN NOTES

- 1 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
2 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC  
SYSTEM.  
3 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL EQUIPMENT ROOF SUPPORT  
DETAIL

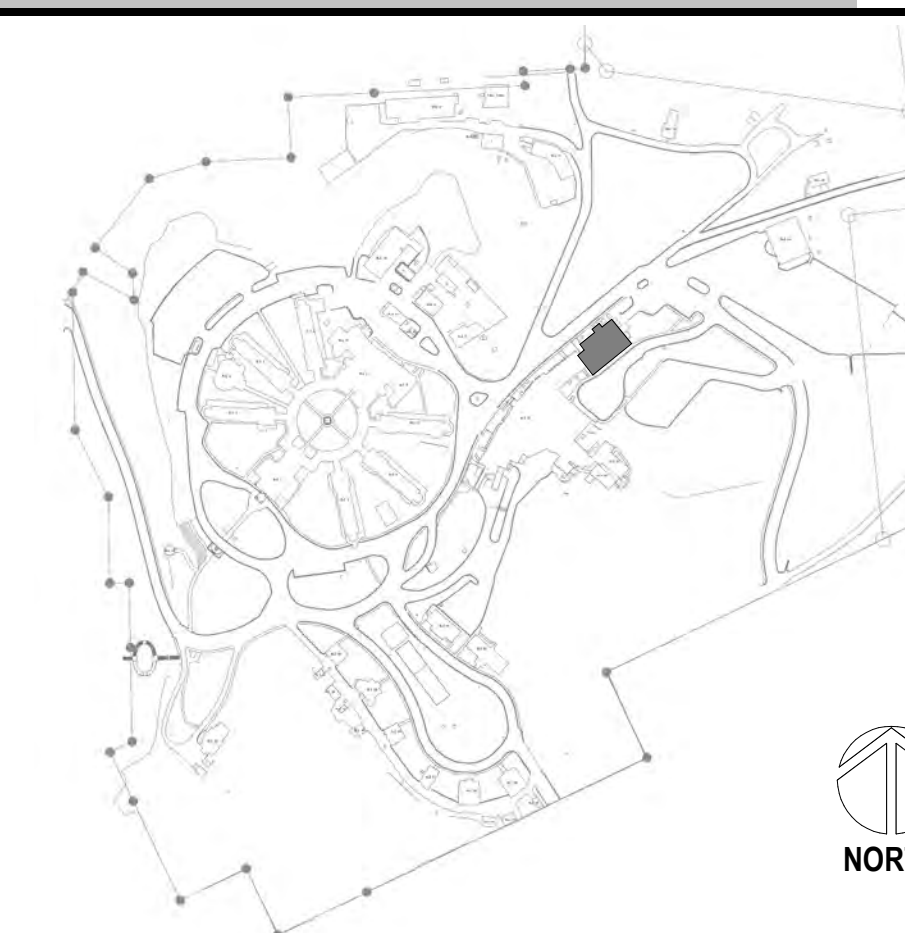


3 ENLARGED ROOM - 102B HVAC  
1/2" = 1'-0"



1 BUILDING 53 FIRST FLOOR PLAN - HVAC  
1/8" = 1'-0"

2 BUILDING 53 ROOF PLAN - HVAC  
1/8" = 1'-0"

[illegible]

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**STAMP**



**PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)**

**VA** U.S. Department  
of Veterans Affairs

DRAWING TITLE

53-FIRST FLOOR AND ROOF HVAC  
PLANS

APPROVED:

PHASE
100% CD FINAL SOLUTION

FLS	
SPRINKLERED	

PROJECT TITLE	EHRM INFRASTRUCTURE UPGRADES
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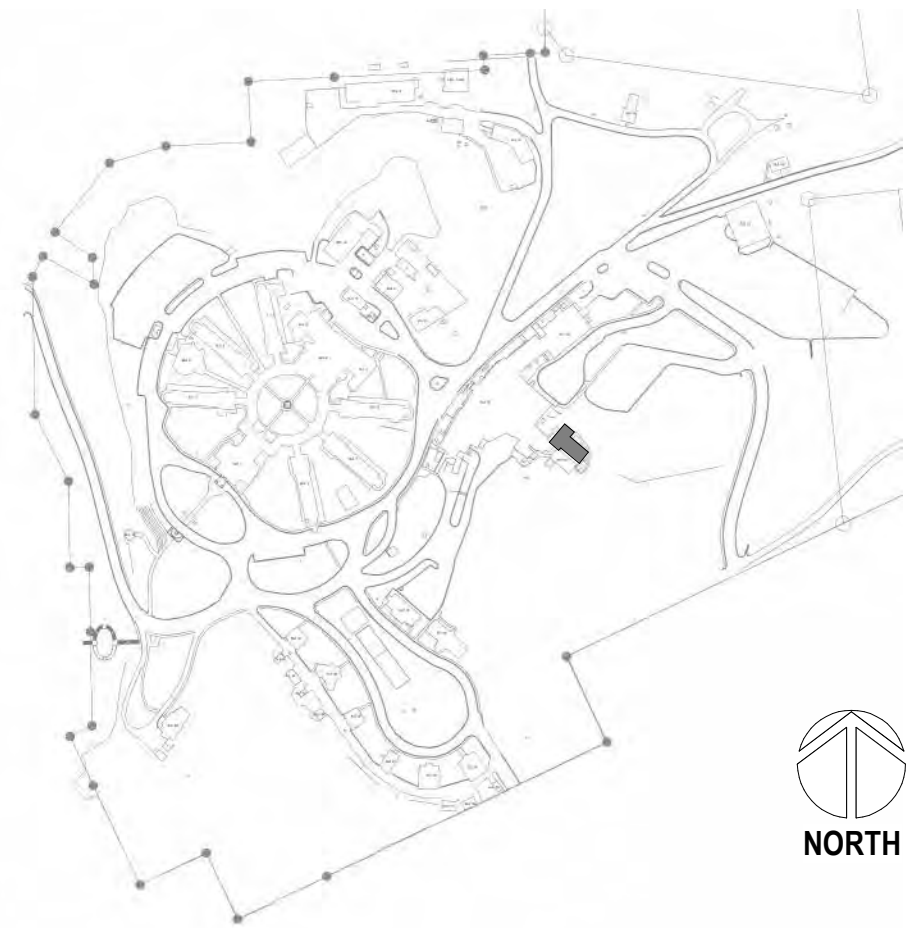
LOCATION		
HOT SPRINGS, SOUTH DAKOTA		
ISSUE DATE	CHECKED BY	DRAWN BY
02/23/2022	KHT	KBT

PROJECT NUMBER	568A4-21-702
BUILDING NUMBER	53
DRAWING NUMBER	053-MH-011

PLAN NOTES

1 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.

SITE LEGEND



1 BUILDING 65 FIRST FLOOR PLAN - HVAC

1/2" = 1'-0"

2' 1' 0' 2' 4'  
SCALE : 1/2" = 1'-0"



Revisions:	Date:

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STAMP



PROGRAM  
CONTRACTING  
ACTIVITY  
CENTRAL (PCAC)

VA U.S. Department  
of Veterans Affairs

DRAWING TITLE  
65-FIRST FLOOR HVAC PLANS

APPROVED:

PHASE  
100% CD FINAL SOLUTION

FLS  
SPRINKLERED

PROJECT TITLE  
EHRM INFRASTRUCTURE  
UPGRADES

LOCATION  
HOT SPRINGS, SOUTH DAKOTA  
ISSUE DATE  
02/23/2022

CHECKED BY  
KHT

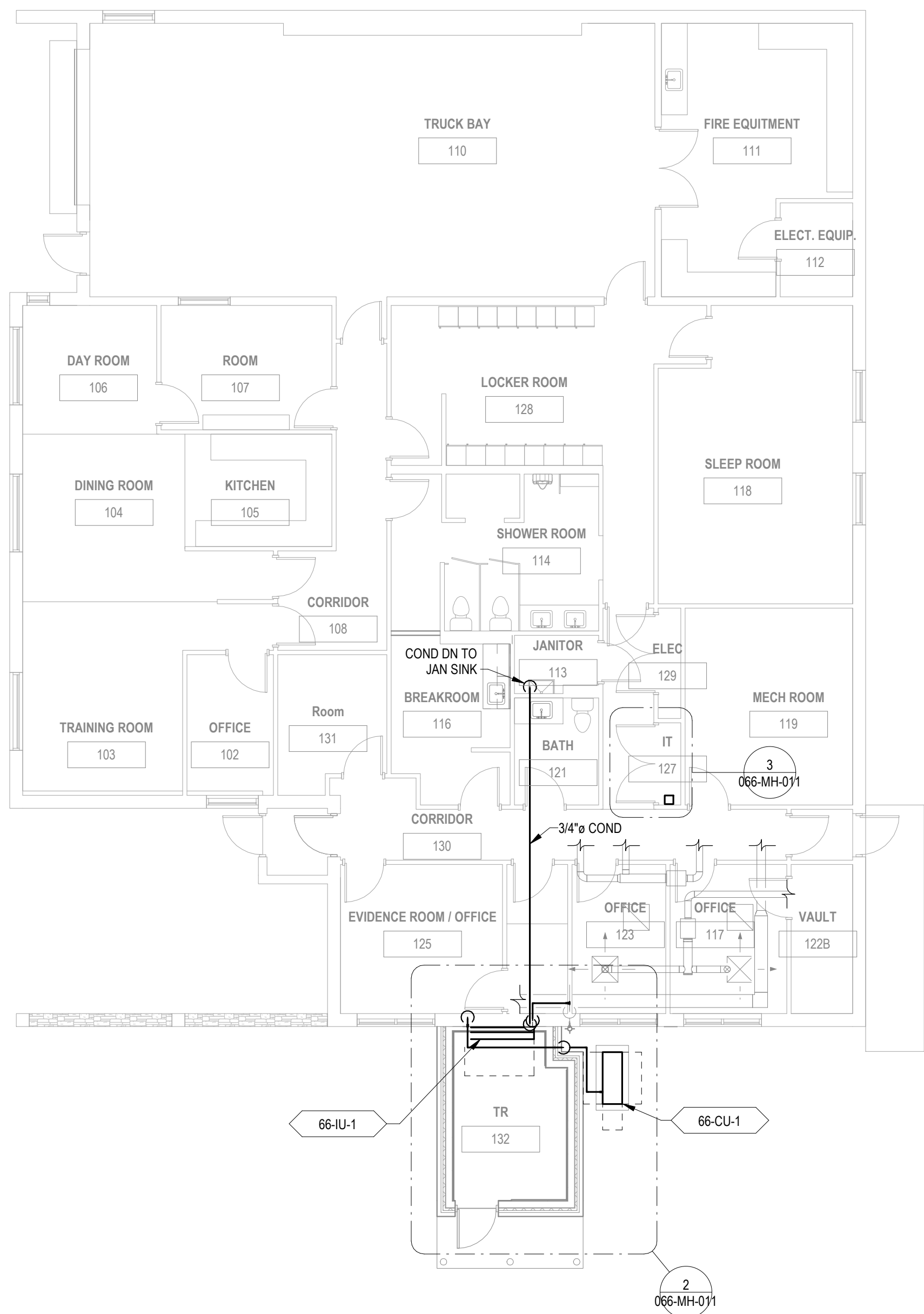
DRAWN BY  
KBT

PROJECT NUMBER  
568A4-21-702  
BUILDING NUMBER  
65  
DRAWING NUMBER  
065-MH-011

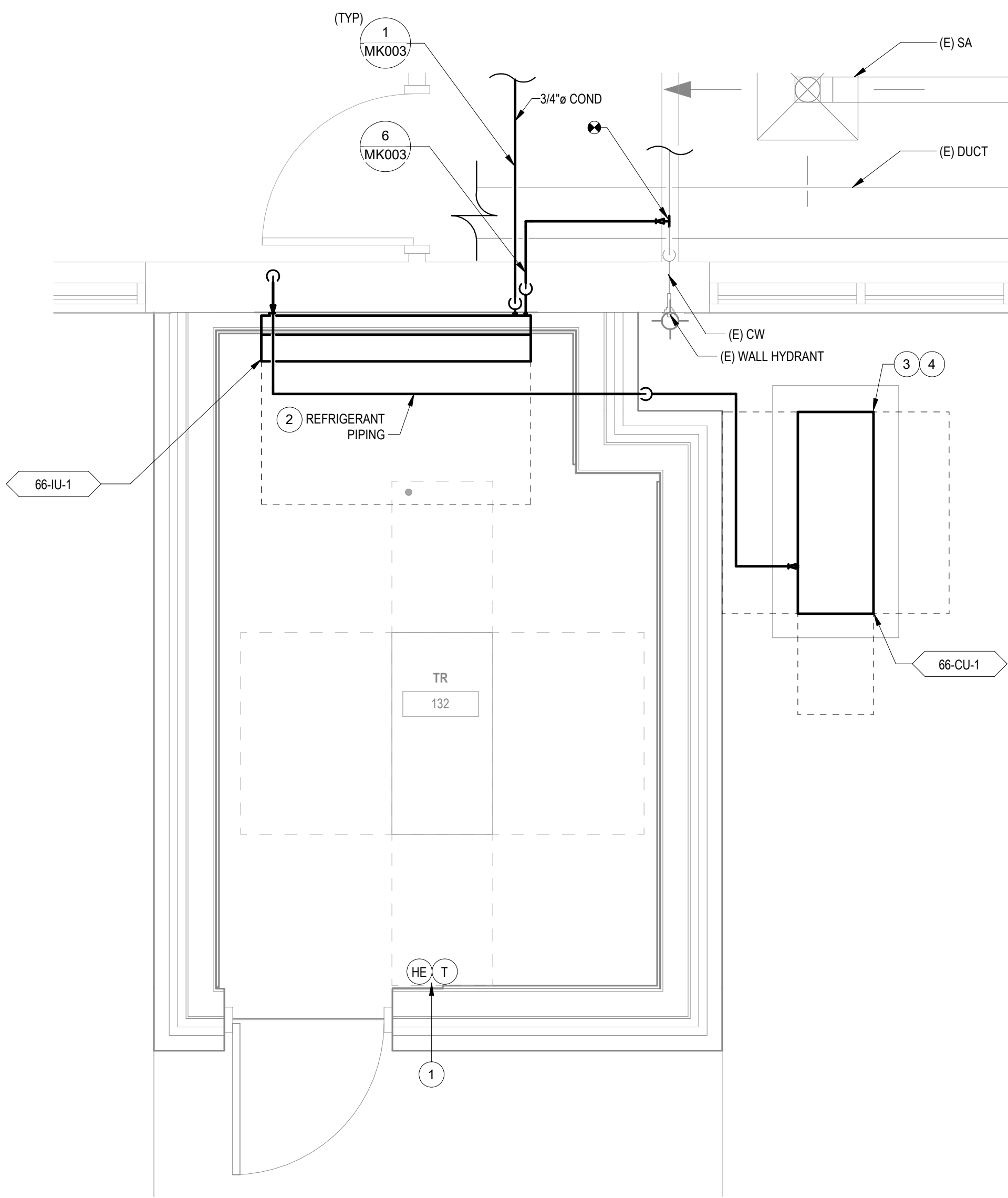
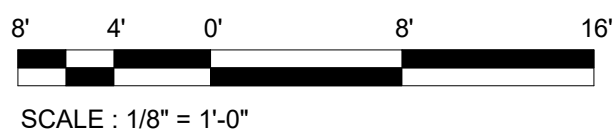


PLAN NOTES

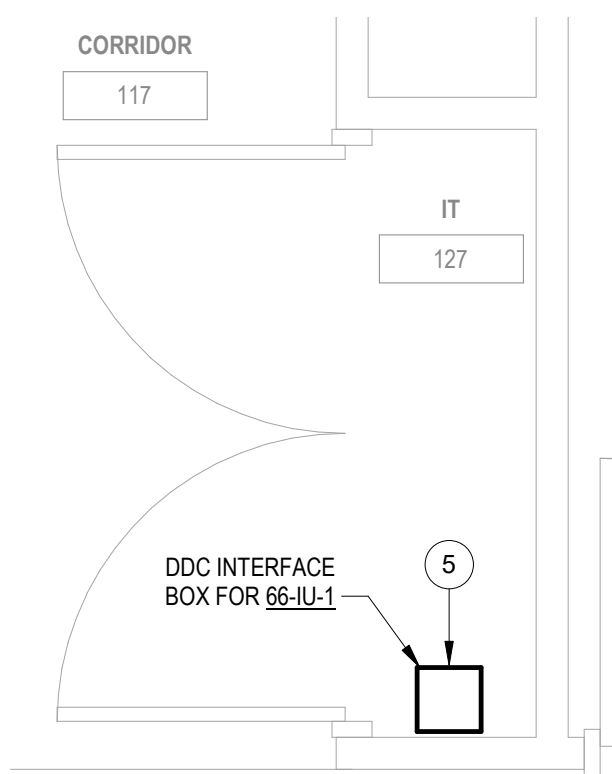
- 1 PROVIDE HUMIDITY SENSOR AND THERMOSTAT INSTALLED AT 4'-6" AFF. CONNECT TO DDC SYSTEM.  
2 REFRIGERANT PIPING SHOWN REPRESENTS BOTH SUPPLY AND RETURN PIPES.  
3 SEE ARCHITECTURAL SHEET 00-GI-006 FOR MECHANICAL UNIT PROTECTION DETAIL.  
4 SEE CIVIL SHEET CJ0002 FOR MECHANICAL EQUIPMENT FOUNDATION DETAIL.  
5 DDC INTERFACE BOX FOR SPLIT SYSTEM. CONNECT TO INDOOR UNIT IN NEW TR AND TO DDC SYSTEM. REFER TO ELECTRICAL DOCUMENTS FOR POWER CONNECTION.



1 BUILDING 66 FIRST FLOOR PLAN - HVAC  
1/8" = 1'-0"

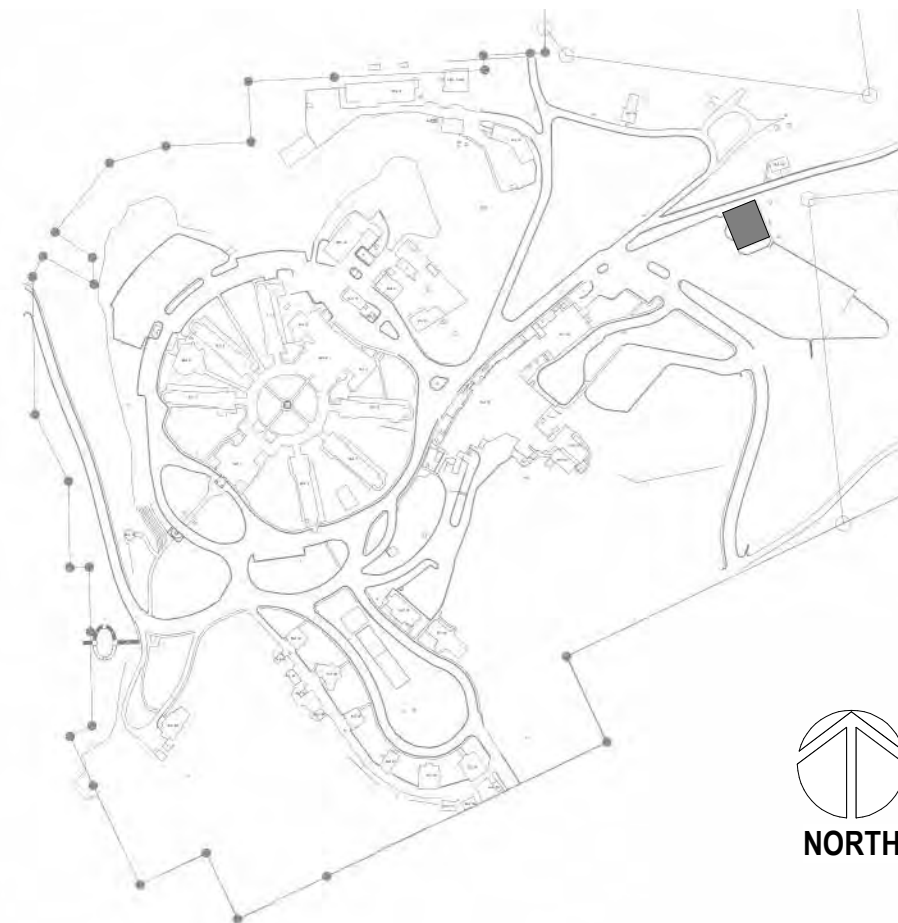


2 ENLARGED ROOM - 132 HVAC  
1/2" = 1'-0"



3 ENLARGED ROOM - 127 HVAC  
1/2" = 1'-0"

SITE LEGEND



Revisions:	Date:

**CONSULTANT**

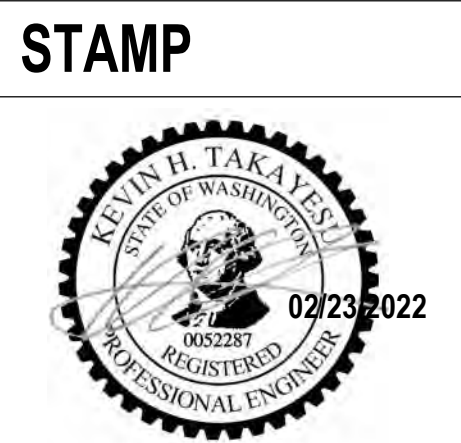
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**PROGRAM CONTRACTING ACTIVITY CENTRAL (PCAC)**

**VA** U.S. Department of Veterans Affairs

DRAWING TITLE 66-FIRST FLOOR HVAC PLANS
APPROVED:

PHASE 100% CD FINAL SOLUTION
FLS SPRINKLERED

PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES
LOCATION HOT SPRINGS, SOUTH DAKOTA
ISSUE DATE 02/23/2022
CHECKED BY KHT
DRAWN BY KBT

PROJECT NUMBER 568A4-21-702
BUILDING NUMBER 66
DRAWING NUMBER 066-MH-011