

# Architect's Supplemental Instruction



Date: 9/13/2022  
Project Name: UA 310 ARKV Renovation  
Project No.: 21085  
Owner: University of Arkansas - Fayetteville

**ASI NO: 01**

Contractor: Milestone Construction  
Attn: Fran Baires  
2002 S. 48<sup>th</sup> St, Suite. A  
Springdale, AR 72762

Contract Date: see file

Delivered by: E-mail

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You are hereby directed to execute promptly this Architect's Supplemental Instruction which interprets the Contract Documents or orders minor changes in the Work without change in contract Sum or Contract Time.

If you consider that a change in Contract Sum or Contract Time is required, please submit your itemized proposal to the Architect immediately and before proceeding with this Work. If your proposal is found to be satisfactory and in proper order, this Architect's Supplemental Instruction will in that event be superseded by a Change Order.

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## **Description:** (Written description of the Work)

**The below items are VE items to be repriced from the previous priced drawing set.**

- 1. Remove all Civil and exterior scope from the project.**
- 2. Remove the cost of an ACM Report.**
- 3. Remove cost for HVAC Controls scope.**
- 4. Remove cost for the Fire Alarm (Triple S) scope.**
- 5. Include abatement of all flooring surfaces, refer to attached report by EEG.**
- 6. Remove all painting scope from rooms C100 and C101.**
- 7. Remove all new flooring in the project except for the restrooms. All existing flooring to be abated per the attached report.**
- 8. Price alternate duct configuration in C101, see attached.**
- 9. Add wood cover at ductwork in C101, see attached.**
- 10. Remove demolition and installation of new lighting C100, C101, and C200; existing to remain.**

Attachments:

**Drawing Set w/ VE revision notations**

By: **Scott Leonard, AIA**

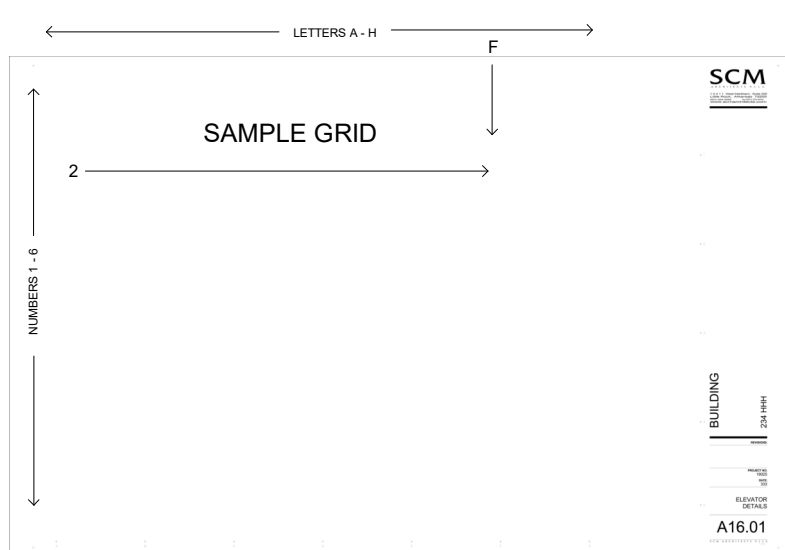
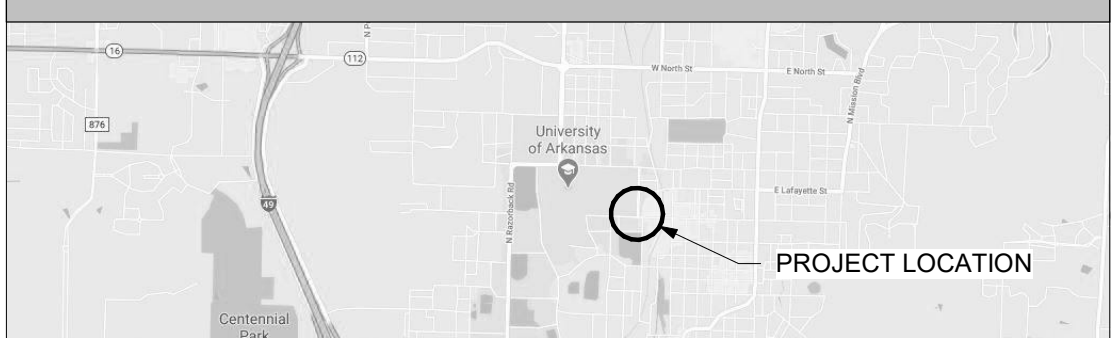
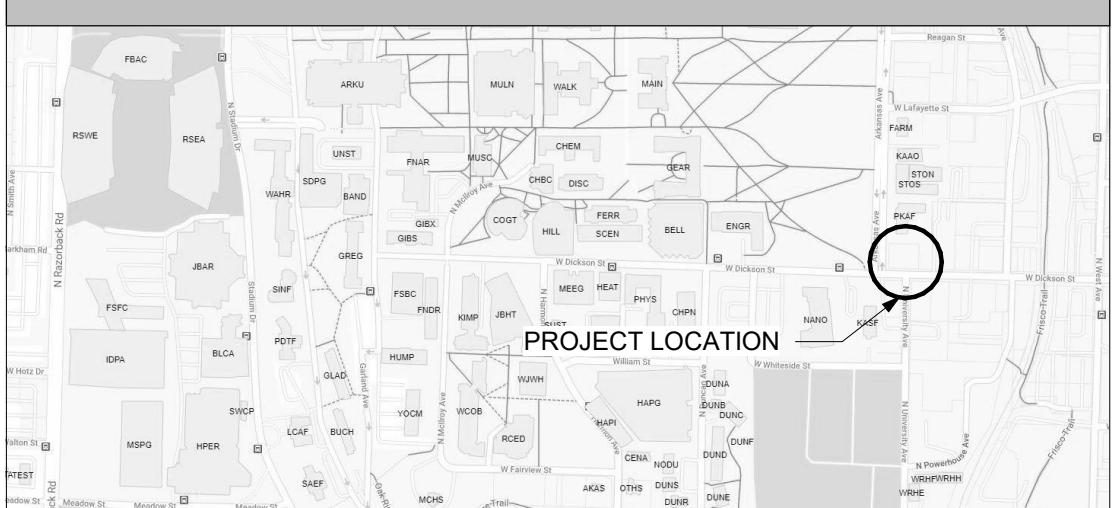
CC: (Owner, Contractor)

Central File: \\SCM-FS\projects\2021\21085 UA 310 Arkansas Ave Renovation\1500 Architect's Supplemental Instructions\ASI 01 - VE Items\22-0913 ASI 01 - VE Items.docx

# 310 ARKANSAS AVE RENOVATION

## UNIVERSITY OF ARKANSAS

310 Arkansas Avenue  
Fayetteville, AR 72701

CSI CON DOC SYSTEM	SYMBOLS LEGEND	GENERAL NOTES	PROJECT CONTACTS	INDEX OF DRAWINGS																																																																																	
<p>PROJECT DRAWINGS ARE LAYED OUT USING THE CSI "CONDOC" SYSTEM.</p>  <p>TYPICAL DRAWING SHEET:</p> <p>THE DRAWING/DETAIL SHEET IS BORDERED BY NUMBERS AND LETTERS CREATING A GRID. THIS GRID IS USED TO LOCATE AREAS OF THE DRAWING FOR REFERENCE AND PINPOINT DETAILS.</p> <p><b>EXAMPLE:</b> NOTE THE DETAIL SYMBOL ON THE SHEET. ITS LOCATION IS "2F". IN DISCUSSION YOU WOULD SAY "LOOK AT THE DETAIL LOCATED AT "2F" ON SHEET A16.01. THIS NUMBER MAY BE KEYPED INTO THE DETAIL SYMBOL AND WOULD READ "2F - A16.01."</p>	<p><b>DOOR TYPE</b> DOOR MARK (NUMBER)</p> <p><b>CONTROL OF DATUM POINT</b> DESCRIPTION OF POINT (FIN. FLR, TOP OF PLATE, TOP OF BEAM) ELEVATION OR POINT</p> <p><b>BUILDING SECTION</b> (See Plans and Building Elevations) DIRECTION OF VIEW SECTION LOCATOR/NUMBER SHEET NUMBER</p> <p><b>WALL SECTION</b> (See Plans and Building Elevations) DIRECTION OF VIEW SECTION LOCATOR/NUMBER SHEET NUMBER</p> <p><b>ROOF SLOPE</b> (See Roof Plans) DIRECTION OF UPWARD SLOPE RATIO OF SLOPE</p> <p><b>ROOM TAG</b> (See Plans and Building Sections) ROOM NAME ROOM NUMBER</p> <p><b>GRID LINES</b> EXISTING COLUMN (Letters typ. run Vertical, Numbers typ. run Horizontal)</p> <p><b>KEY NOTE</b> (See Building Elevations, Building Sections, Wall Sections, Detail Views, and the Material Legend) MATERIAL CALLOUT</p> <p><b>BUILDING ELEVATION</b> (See Plans and Building Elevations) DIRECTION OF VIEW ELEVATION LOCATION/NUMBER SHEET NUMBER</p> <p><b>INTERIOR ELEVATION</b> (See Plans) DIRECTION OF VIEW ELEVATION LOCATION/NUMBER SHEET NUMBER</p> <p><b>WINDOW TYPE</b> WINDOW MARK (LETTER)</p> <p><b>REVISION REFERENCE</b> NUMBER OF REVISION CORRESPONDING TO SECTION IN TITLE BLOCK</p> <p><b>PARTITION TYPE</b> PARTITION MARK (NUMBER)</p>	<p>*****</p> <p><b>GENERAL CONTRACT REQUIREMENTS AFFECTING ALL TRADES</b></p> <p>IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS TO REVIEW ALL DRAWINGS TO ENSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE.</p> <p>*****</p> <ol style="list-style-type: none"> <li>GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION TO COORDINATE THE SITING OF NEW UTILITIES AND NEW BUILDING INSTALLATION WITH EXISTING UTILITIES, EXISTING BUILDING LOCATIONS AND SITE ITEMS TO REMAIN.</li> <li>CONTRACTOR TO COORDINATE STORAGE AND STAGING AREAS WITH OWNER'S REPRESENTATIVE TO AVOID INTERFERENCE WITH OWNER'S USE OF EXISTING BUILDINGS, PARKING AREAS, AND GROUNDS.</li> <li>PROVIDE SECURITY, BARRIERS AND FACILITIES TO PROTECT WORK AND STORED MATERIAL FROM UNAUTHORIZED ENTRY, VANDALISM OR THEFT.</li> <li>CONDITION AND USE OF THE JOB SITE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. JOB SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY FASHION. DEBRIS AND TRASH FOR ALL TRADES AND SUBCONTRACTORS UNDER GENERAL CONTRACTOR CONTROL AND FOR THOSE UNDER DIRECT CONTRACT WITH THE OWNER SHALL BE REMOVED DAILY.</li> <li>GENERAL CONTRACTOR SHALL COORDINATE DELIVERIES, INSPECTIONS, AND SITE VISITS FOR ALL TRADES AND SUBCONTRACTORS AS REQUIRED.</li> <li>THE CONTRACTOR IS REQUIRED TO PROTECT ALL SITE ITEMS IN THE AREAS ADJACENT TO THE PROJECT CONSTRUCTION WORK AS NECESSARY TO PREVENT DAMAGE. CONTRACTOR TO BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ITEMS DAMAGED DURING CONSTRUCTION.</li> <li>FINAL CLEANING AT SUBSTANTIAL COMPLETION SHALL INCLUDE BUT NOT BE LIMITED TO CLEANING OF ALL SURFACES AFFECTED BY THE WORK OF THE CONTRACT AND REMOVAL OF ANY SPOTS, STAINS, SPILLS, ETC. ON ANY SURFACES CAUSED BY CONSTRUCTION ACTIVITIES AND INCURRED DURING THE CONSTRUCTION PERIOD.</li> <li>ALL PRODUCTS USED ON THIS PROJECT THAT ARE USED IN CONJUNCTION WITH EACH OTHER OR ADJACENT TO EACH OTHER ARE REQUIRED TO BE COMPATIBLE.</li> <li>OWNER RETAINS THE RIGHT TO LET OTHER CONTRACTS IN CONNECTION WITH THE PROJECT WORK. GENERAL CONTRACTOR SHALL PROPERLY COOPERATE, COORDINATE AND INTERFACE CONSTRUCTION SCHEDULE WITH ANY SUCH CONTRACTORS/VENDORS, ETC.</li> <li>CONTRACTOR IS RESPONSIBLE FOR SEALING AND PROTECTING ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, CEILINGS, AND ROOF ELEMENTS BOTH NEW AND EXISTING IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES TO THE SATISFACTION OF THE BUILDING OFFICIAL.</li> <li>CONTRACTOR SHALL INSTALL GYPSUM CONTROL JOINTS IN CEILINGS OR WALLS WHERE INDICATED ON THE CONSTRUCTION DRAWINGS OR AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER NOT TO EXCEED 30'-0" RUNS MAX. COORDINATE ALL JOINT LOCATIONS NOT INDICATED WITH ARCHITECT FOR EXACT LOCATIONS TO BE INSTALLED.</li> <li>CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS TO COORDINATE COMPLETE AND ACCURATE INSTALLATION WITH THE CONSTRAINTS OF THE NEW BUILDING CONSTRUCTION FOR ROUTING OF UTILITIES IN A NEAT AND ORDERLY MANNER. IF A DISCREPANCY OCCURS WITH THE NEW BUILDING STRUCTURE AND INSTALLATION REQUIREMENTS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT TO RESOLVE ANY ROUTING ISSUES.</li> <li>REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS AND TYPES OF CEILINGS. SEE SPECIFICATIONS FOR SPECIFIED ITEM TO BE INSTALLED ON WALLS, CEILINGS AND FLOOR.</li> </ol>	<p><b>CONTACT COORDINATOR: (OWNER)</b></p> <p><b>CONTACT PERSON:</b> UNIVERSITY OF ARKANSAS FAYETTEVILLE, ARKANSAS</p> <p>JOHN ROSS UAF CONSTRUCTION COORDINATOR (479) 575-7996 jr003@uark.edu</p> <p><b>ARCHITECT:</b> SCM ARCHITECTS PLLC 28 E CENTER ST, SUITE 220 FAYETTEVILLE, AR 72701</p> <p><b>PRINCIPAL IN CHARGE:</b> SCOTT LEONARD, AIA scottl@scmarchitects.com</p> <p><b>PROJECT MANAGER:</b> CAMERON SUNKEL camerons@scmarchitects.com (479) 966-4777</p> <p><b>CONSULTANTS</b></p> <p><b>CIVIL ENGINEERS:</b> DEVELOPMENT CONSULTANTS INC. 2200 NORTH RODNEY PARHAM, SU. 220 LITTLE ROCK, AR 72212</p> <p>SHAWN LUTHER shawnl@dcius.pro</p> <p><b>MECHANICAL ENGINEERS:</b> PETTIT &amp; PETTIT CONSULTING ENGINEERS 201 E. MARKHAM, SUITE 400 LITTLE ROCK, AR 72201</p> <p><b>ELECTRICAL ENGINEERS:</b> PETTIT &amp; PETTIT CONSULTING ENGINEERS 201 E. MARKHAM, SUITE 400 LITTLE ROCK, AR 72201</p> <p>ELECTRICAL: TONY AYCOCK taycock@pettitinc.com</p>	<p>GENERAL T1.01 COVER SHEET</p> <p><b>CIVIL</b></p> <ul style="list-style-type: none"> <li>C1.01 DEMOLITION AND TREE PROTECTION PLAN</li> <li>C2.01 GRADING AND DRAINAGE PLAN</li> <li>C3.01 LAYOUT AND MATERIALS PLAN</li> <li>C3.02 PAVING DETAILS</li> <li>C3.03 PAVING DETAILS</li> <li>C4.01 EROSION CONTROL PLAN</li> <li>L1.01 PLANTING PLAN</li> </ul> <p><b>ARCHITECTURAL</b></p> <ul style="list-style-type: none"> <li>A0.01 DEMOLITION AUDITORIUM FLOOR PLANS</li> <li>A0.02 DEMOLITION CLASSROOM WING FLOOR PLAN</li> <li>A1.01 AUDITORIUM FLOOR PLANS</li> <li>A1.02 CLASSROOM WING FLOOR PLAN</li> <li>A2.01 AUDITORIUM REFLECTED CEILING PLAN</li> <li>A2.02 CLASSROOM WING REFLECTED CEILING PLAN</li> <li>A3.01 FINISH AND DOOR SCHEDULE</li> </ul> <p><b>MECHANICAL</b></p> <ul style="list-style-type: none"> <li>M0.01 DEMOLITION FLOOR PLANS - HVAC</li> <li>M0.02 DEMOLITION FLOOR PLAN - HVAC</li> <li>M1.01 AUDITORIUM FLOOR PLANS - HVAC</li> <li>M1.02 CLASSROOM WING FLOOR PLAN - HVAC</li> <li>M2.01 HVAC SECTIONS</li> <li>M3.01 HVAC DETAILS</li> <li>M3.02 HVAC DETAILS</li> <li>M4.01 HVAC SCHEDULES</li> <li>M5.01 HVAC CONTROLS</li> </ul> <p><b>PLUMBING</b></p> <ul style="list-style-type: none"> <li>P0.00 PLUMBING GENERAL NOTES AND LEGENDS</li> <li>P0.01 DEMOLITION PLANS - PLUMBING</li> <li>P1.01 FLOOR PLANS - PLUMBING</li> <li>P2.01 PLUMBING DETAILS</li> <li>P3.01 PLUMBING RISERS</li> </ul> <p><b>FIRE PROTECTION</b></p> <ul style="list-style-type: none"> <li>FP0.00 FIRE PROTECTION GENERAL NOTES AND LEGENDS</li> <li>FP1.01 FLOOR PLAN - FIRE PROTECTION</li> <li>FP1.02 FLOOR PLAN - FIRE PROTECTION</li> <li>FP2.01 FIRE PROTECTION DETAILS</li> <li>FP2.02 FIRE PROTECTION DETAILS</li> </ul> <p><b>ELECTRICAL DEMOLITION</b></p> <ul style="list-style-type: none"> <li>ED0.01 DEMOLITION PLANS - ELECTRICAL</li> </ul> <p><b>ELECTRICAL</b></p> <ul style="list-style-type: none"> <li>E1.01 FLOOR PLANS - ELECTRICAL</li> <li>E1.02 FLOOR PLANS - POWER</li> <li>E1.03 FLOOR PLAN - SYSTEMS</li> <li>E2.01 ELECTRICAL LEGENDS &amp; DETAILS</li> <li>E3.01 ELECTRICAL DETAILS &amp; DIAGRAMS</li> </ul>																																																																																	
<p><b>ABBREVIATIONS</b></p> <table border="0"> <tr> <td>A.F.F. - ABOVE FINISH FLOOR</td> <td>F.O.C. - FACE OF CURB</td> </tr> <tr> <td>ALUM. - ALUMINUM</td> <td>F.O.S. - FACE OF STUD</td> </tr> <tr> <td>AS REQ. - AS REQUIRED</td> <td>FTG. - FOOTING</td> </tr> <tr> <td>BD. - BOARD</td> <td>GYP BD - GYPSUM BOARD</td> </tr> <tr> <td>BLDG. - BUILDING</td> <td>GWB - GYPSUM BOARD</td> </tr> <tr> <td>BLK. - BLOCK</td> <td>HM - HOLLOW METAL</td> </tr> <tr> <td>B.O.C. - BACK OF CURB</td> <td>INSUL - INSULATION</td> </tr> <tr> <td>B.O.F. - BOTTOM OF FOOTING</td> <td>INT - INTERIOR</td> </tr> <tr> <td>CAB - CABINET</td> <td>MECH - MECHANICAL</td> </tr> <tr> <td>CER - CERAMIC</td> <td>MFR - MANUFACTURER</td> </tr> <tr> <td>C.J. - CONTROL JOINT</td> <td>MISC - MISCELLANEOUS</td> </tr> <tr> <td>C.L. - CENTER LINE</td> <td>M.O. - MASONRY OPENING</td> </tr> <tr> <td>CLG - CEILING</td> <td>MTL - METAL</td> </tr> <tr> <td>CLR - CLEAR</td> <td>N.I.C. - NOT IN CONTRACT</td> </tr> <tr> <td>CMU - CONCRETE MASONRY UNIT</td> <td>N.T.S. - NOT TO SCALE</td> </tr> <tr> <td>COL - COLUMN</td> <td>O.C. - ON CENTER</td> </tr> <tr> <td>CONC - CONCRETE</td> <td>O.H. - OPPOSITE HAND</td> </tr> <tr> <td>CONT - CONTINUOUS</td> <td>OPP. - OPPOSITE</td> </tr> <tr> <td>CORR - CORRIDOR</td> <td>PLAM - PLASTIC LAMINATE</td> </tr> <tr> <td>CPT - CARPET</td> <td>PLUMB - PLUMBING</td> </tr> <tr> <td>DBL - DOUBLE</td> <td>PLYWD - PLYWOOD</td> </tr> <tr> <td>DEMO - DEMOLITION</td> <td>PREFIN - PREFINISHED</td> </tr> <tr> <td>DIA - DIAMETER</td> <td>RAD - RADIUS</td> </tr> <tr> <td>DN - DOWN</td> <td>RE - REFERENCE</td> </tr> <tr> <td>DS - DOWNSPOUT</td> <td>REINF - REINFORCED</td> </tr> <tr> <td>DTL - DETAIL</td> <td>REQ'D - REQUIRED</td> </tr> <tr> <td>EA - EACH</td> <td>R.O. - ROUGH OPENING</td> </tr> <tr> <td>EIFS - EXT. INSUL. FINISH SYSTEM</td> <td>SAN - SANITARY</td> </tr> <tr> <td>EJ - EXPANSION JOINT</td> <td>SCHED - SCHEDULED</td> </tr> <tr> <td>ELEC - ELECTRICAL</td> <td>SIM - SIMILAR</td> </tr> <tr> <td>ELEV - ELEVATION</td> <td>S.S. - STAINLESS STEEL</td> </tr> <tr> <td>E.O.S. - EDGE OF SLAB</td> <td>STL - STEEL</td> </tr> <tr> <td>EQ - EQUAL</td> <td>STRUCT - STRUCTURAL</td> </tr> <tr> <td>EQUIP - EQUIPMENT</td> <td>SUSP - SUSPENDED</td> </tr> <tr> <td>EXH - EXHAUST</td> <td>THK - THICK</td> </tr> <tr> <td>EXIST - EXISTING</td> <td>TYP - TYPICAL</td> </tr> <tr> <td>EXT - EXTERIOR</td> <td>U.N.O. - UNLESS NOTED OTHERWISE</td> </tr> <tr> <td>F.E.C. - FIRE EXTINGUISHER CABINET</td> <td>VER - VERIFY</td> </tr> <tr> <td>F.F.E. - FINISH FLOOR ELEVATION</td> <td>V.I.F. - VERIFY IN FEILD</td> </tr> <tr> <td>FIN. FL. - FINISH FLOOR</td> <td>WD - WOOD</td> </tr> <tr> <td>F.O.B. - FACE OF BRICK</td> <td></td> </tr> </table>	A.F.F. - ABOVE FINISH FLOOR	F.O.C. - FACE OF CURB	ALUM. - ALUMINUM	F.O.S. - FACE OF STUD	AS REQ. - AS REQUIRED	FTG. - FOOTING	BD. - BOARD	GYP BD - GYPSUM BOARD	BLDG. - BUILDING	GWB - GYPSUM BOARD	BLK. - BLOCK	HM - HOLLOW METAL	B.O.C. - BACK OF CURB	INSUL - INSULATION	B.O.F. - BOTTOM OF FOOTING	INT - INTERIOR	CAB - CABINET	MECH - MECHANICAL	CER - CERAMIC	MFR - MANUFACTURER	C.J. - CONTROL JOINT	MISC - MISCELLANEOUS	C.L. - CENTER LINE	M.O. - MASONRY OPENING	CLG - CEILING	MTL - METAL	CLR - CLEAR	N.I.C. - NOT IN CONTRACT	CMU - CONCRETE MASONRY UNIT	N.T.S. - NOT TO SCALE	COL - COLUMN	O.C. - ON CENTER	CONC - CONCRETE	O.H. - OPPOSITE HAND	CONT - CONTINUOUS	OPP. - OPPOSITE	CORR - CORRIDOR	PLAM - PLASTIC LAMINATE	CPT - CARPET	PLUMB - PLUMBING	DBL - DOUBLE	PLYWD - PLYWOOD	DEMO - DEMOLITION	PREFIN - PREFINISHED	DIA - DIAMETER	RAD - RADIUS	DN - DOWN	RE - REFERENCE	DS - DOWNSPOUT	REINF - REINFORCED	DTL - DETAIL	REQ'D - REQUIRED	EA - EACH	R.O. - ROUGH OPENING	EIFS - EXT. INSUL. FINISH SYSTEM	SAN - SANITARY	EJ - EXPANSION JOINT	SCHED - SCHEDULED	ELEC - ELECTRICAL	SIM - SIMILAR	ELEV - ELEVATION	S.S. - STAINLESS STEEL	E.O.S. - EDGE OF SLAB	STL - STEEL	EQ - EQUAL	STRUCT - STRUCTURAL	EQUIP - EQUIPMENT	SUSP - SUSPENDED	EXH - EXHAUST	THK - THICK	EXIST - EXISTING	TYP - TYPICAL	EXT - EXTERIOR	U.N.O. - UNLESS NOTED OTHERWISE	F.E.C. - FIRE EXTINGUISHER CABINET	VER - VERIFY	F.F.E. - FINISH FLOOR ELEVATION	V.I.F. - VERIFY IN FEILD	FIN. FL. - FINISH FLOOR	WD - WOOD	F.O.B. - FACE OF BRICK		<p><b>VICINITY MAP</b></p>  <p><b>LOCATION MAP</b></p> 	<p><b>NOT FOR CONSTRUCTION</b></p> <p>I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS</p> <p>SCOTT LEONARD _____ DATE: _____</p>	<p>June 14, 2022</p> <p><b>SCM</b> ARCHITECTS PLLC 28 E CENTER ST, SUITE 220 FAYETTEVILLE, AR 72201 FAY: (479) 966-4777 LR: (501) 224-3055 www.scmarchitects.com</p> <p><b>T1.01</b></p> <p>SCM ARCHITECTS PLLC</p>
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FOR PRICING ONLY;  
NOT FOR CONSTRUCTION

**310 ARKANSAS AVE RENOVATION  
UNIVERSITY OF ARKANSAS**

310 Arkansas Avenue  
Fayetteville, AR 72701

REVISIONS:

PROJECT NO.  
21085  
DATE:  
June 14, 2022

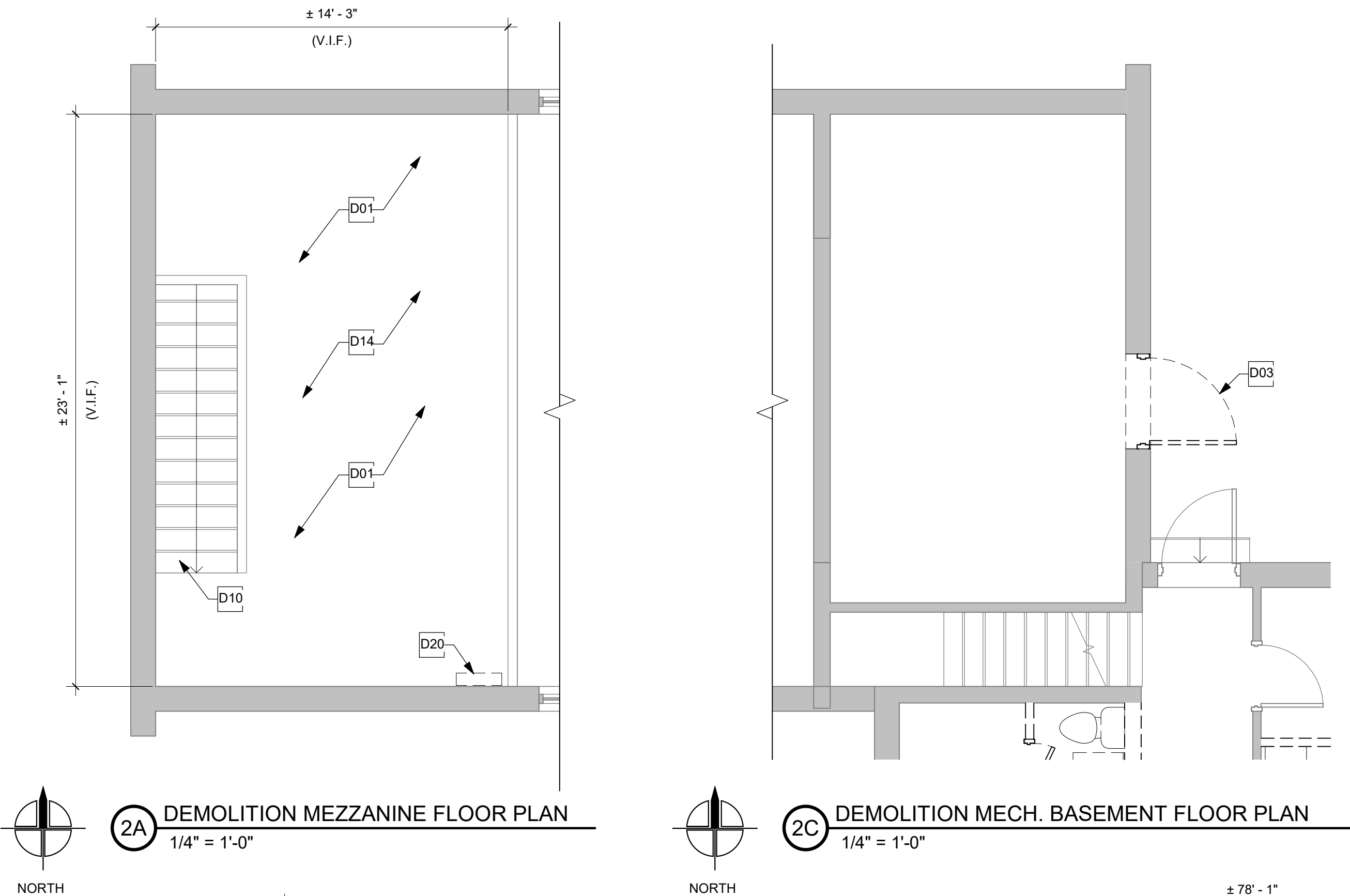
DEMOLITION  
AUDITORIUM FLOOR  
PLANS

**A0.01**

DEMOLITION KEYNOTES	
D01	REMOVE EXISTING FLOOR FINISH MATERIAL, BASE, AND ASSOCIATED ADHESIVE. NOTE: THE EXISTING TILES AND/OR ADHESIVE COULD CONTAIN ASBESTOS MATERIALS.
D02	REMOVE EXISTING CEILING AND ASSOCIATED SUPPORT/ GRID SYSTEM.
D03	REMOVE EXISTING DOOR AND FRAME.
D04	REMOVE EXISTING DOOR, FRAME, AND HARDWARE. PREP EXISTING OPENING AS REQUIRED FOR NEW CMU BLOCK INFILL.
D05	REMOVE EXISTING MILLWORK / CASEWORK THIS AREA.
D06	REMOVE EXISTING PLUMBING FIXTURES AND CAP UTILITIES AT FLOOR SLAB, RE: PLUMBING.
D07	REMOVE EXISTING KITCHEN EQUIPMENT, CAP UTILITIES AT FLOOR SLAB, RE: MECHANICAL.
D08	EXISTING DOOR AND FRAME TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION. PREP AS REQUIRED FOR REFINISHING.
D10	REMOVE EXISTING STAIR TREAD AND RISER FINISH. STAIR STRUCTURE TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
D11	EXISTING STAIR RAILING TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
D12	REMOVE EXISTING STAIR AND SUPPORTING SUB-STRUCTURE.
D13	REMOVE EXISTING RAISED FLOOR AND SUPPORTING SUB-STRUCTURE THIS AREA.
D14	EXISTING CEILING TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
D15	REMOVE EXISTING PLUMBING FIXTURES AND TEMPORARILY CAP UTILITIES. PREP FOR NEW PLUMBING FIXTURES, RE: PLUMBING.
D16	REMOVE EXISTING WOOD PARTITION.
D17	REMOVE EXISTING WINDOW SHADES, TYP. PROTECT EXISTING WINDOW SYSTEM TO REMAIN.
D18	EXISTING STOREFRONT SYSTEM TO REMAIN.
D19	REMOVE EXISTING CMU PARTITION.
D20	REMOVE EXISTING MECHANICAL EQUIPMENT, RE: MECHANICAL.

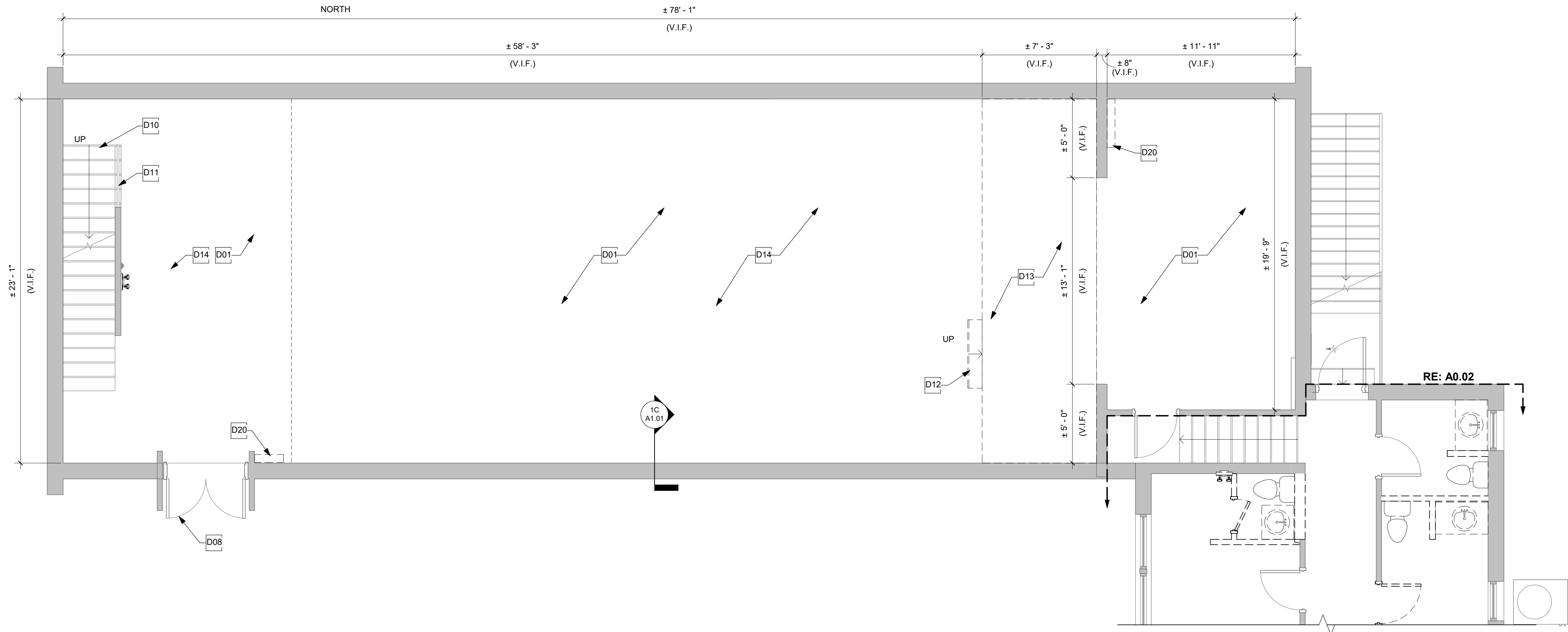
\*\*\* PATCH / REPAIR ALL EXISTING WALLS / GYP. BOARD FINISH TO REMAIN WHERE DAMAGE MAY HAVE OCCURED IN DEMOLITION OF EXISTING CONDITIONS

- GENERAL DEMOLITION NOTES:**
- GENERAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING SITE AND STRUCTURE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
  - OBTAIN ALL REQUIRED PERMITS FROM THE PROPER AUTHORITIES.
  - NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. CONTRACTOR SHALL IDENTIFY THE LOCATION OF EXISTING UTILITY LINES INCLUDING BUT NOT LIMITED TO ELECTRICAL UTILITIES, DOMESTIC WATER, SANITARY SEWER, NATURAL GAS, CABLE TV, TELEPHONE AND INTERNET. CONTRACTOR SHALL PROTECT EXISTING UTILITY LINES.
  - CONFORM TO APPLICABLE CODES FOR DEMOLITION WORK, SAFETY OF STRUCTURE, DUST CONTROL, AND ITEMS STORED WITHIN THE STRUCTURE.
  - CONFORM TO APPLICABLE REGULATORY PROCEDURES IF HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED.
  - DRAWINGS SHOWING EXISTING CONSTRUCTION AND UTILITIES ARE BASED ON CASUAL FIELD OBSERVATION ONLY. VERIFY THAT CONSTRUCTION AND UTILITY ARRANGEMENTS ARE AS SHOWN. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION. BEGINNING OF ALTERATIONS WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS.
  - MANY DIMENSIONS ARE DEPENDENT UPON EXISTING BUILDING CONDITIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND DIMENSIONS PRIOR TO PRICING AND DURING CONSTRUCTION, AS NECESSARY. TO ASSURE CONSTRUCTION ADHERENCE TO DRAWINGS, THE SUBMISSION OF A PRICE CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. BY ENTERING INTO A CONSTRUCTION CONTRACT FOR THIS WORK, THE GENERAL CONTRACTOR HAS INDICATED HIS / HER FAMILIARITY WITH THE FIELD CONDITIONS. ANY DIMENSION REVISIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR REVIEW / APPROVAL.
  - SCHEDULE WORK TO AVOID EXCESSIVE EXPOSURE OF BUILDING ELEMENTS TO THE WEATHER.
  - ERECT AND MAINTAIN WEATHERPROOF ENCLOSURES FOR ALL EXTERIOR OPENINGS
  - EXECUTE WORK BY METHODS WHICH WILL AVOID DAMAGE TO OTHER WORK. REPAIR OR REPLACE ITEMS DAMAGED DURING CONSTRUCTION. PROVIDE PROPER SURFACES TO RECEIVE PATCHING AND FINISHING.
  - PROTECT EXISTING MATERIALS AND SURFACES, FIXTURES, EQUIPMENT AND OTHER ITEMS WHICH ARE NOT TO BE REMOVED.
  - THE CONTRACTOR SHALL REMOVE, CUT, AND PATCH WORK IN A MANNER TO MINIMIZE DAMAGE, AND PROVIDE A MEANS OF RESTORING PRODUCTS AND FINISHES TO THEIR ORIGINAL CONDITION.
  - WHERE NEW WORK ABUTS OR ALIGNS WITH EXISTING, PERFORM A SMOOTH AND EVEN TRANSITION. PATCH WORK AND USE MATERIALS THAT MATCH EXISTING ADJACENT WORK IN TEXTURE AND APPEARANCE.
  - DEMO ALL EXISTING INTERIOR PARTITIONS, DOORS, AND WINDOWS SHOWN TO BE REMOVED ON THE PLANS, ELEVATIONS, AND SECTIONS BY DASHED LINES. COORDINATE EXTENTS OF DEMOLITION WITH NEW PLANS.
  - WHERE DEMOLITION OF PIPING AND CONDUIT FROM EXISTING WALLS TO REMAIN OCCURS, PATCH WALL COMPLETE WITH SIMILAR MATERIAL AND PREPARE FOR WALL FINISH.
  - FILL ALL FLOOR PENETRATIONS; APPLY FLOOR PREPARATION AFTER FILLING OF PENETRATION BEFORE APPLICATION OF FLOOR FINISH - TYPICAL FOR ALL FLOOR ELECTRICAL BOXES, CONDUIT PENETRATIONS, PIPING PENETRATIONS, ETC.
  - REMOVE TEMPORARY WORK THAT IS NOT TO REMAIN.
  - DO NOT BURN OR BURY MATERIALS ON SITE.
  - SCHEDULE ANY POWER OUTAGES WITH THE OWNER AT LEAST TWO WEEKS IN ADVANCE.



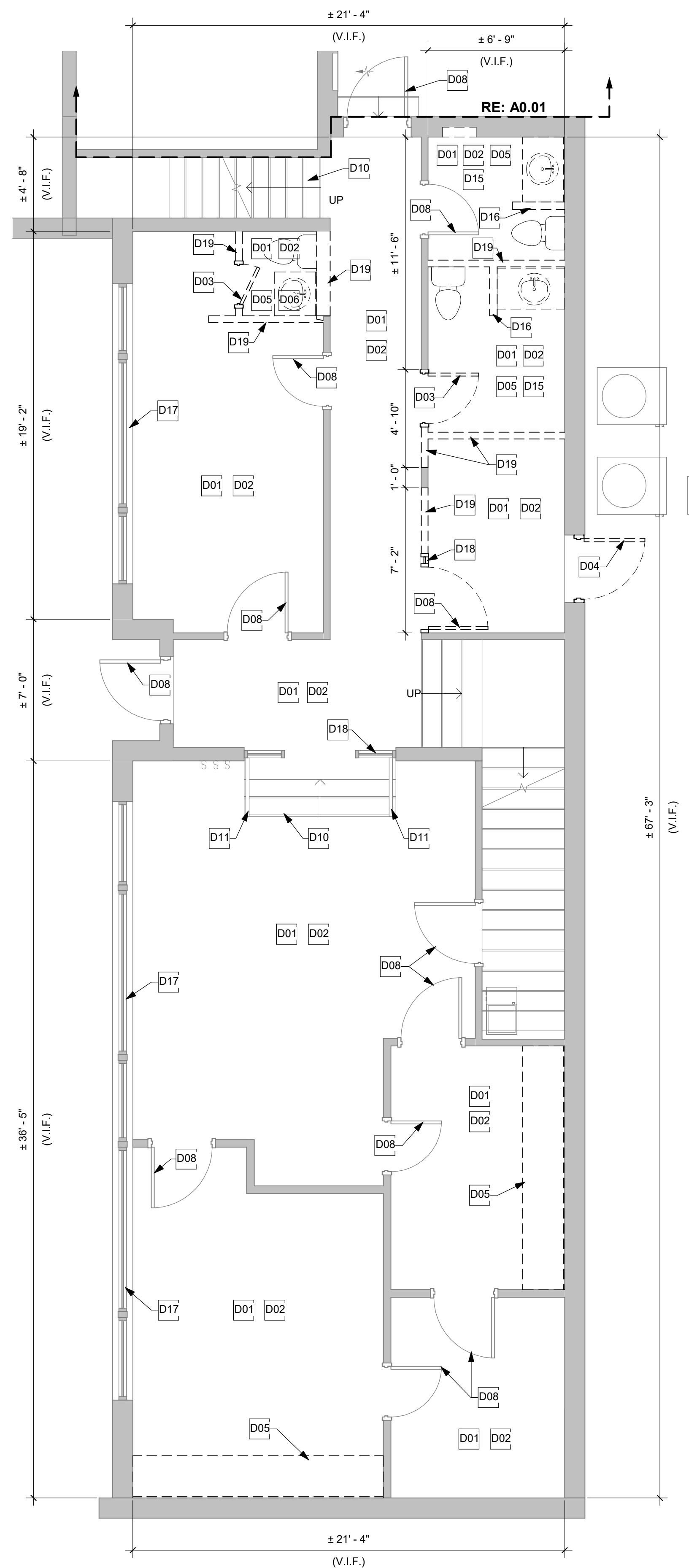
**2A DEMOLITION MEZZANINE FLOOR PLAN**  
1/4" = 1'-0"

**2C DEMOLITION MECH. BASEMENT FLOOR PLAN**  
1/4" = 1'-0"

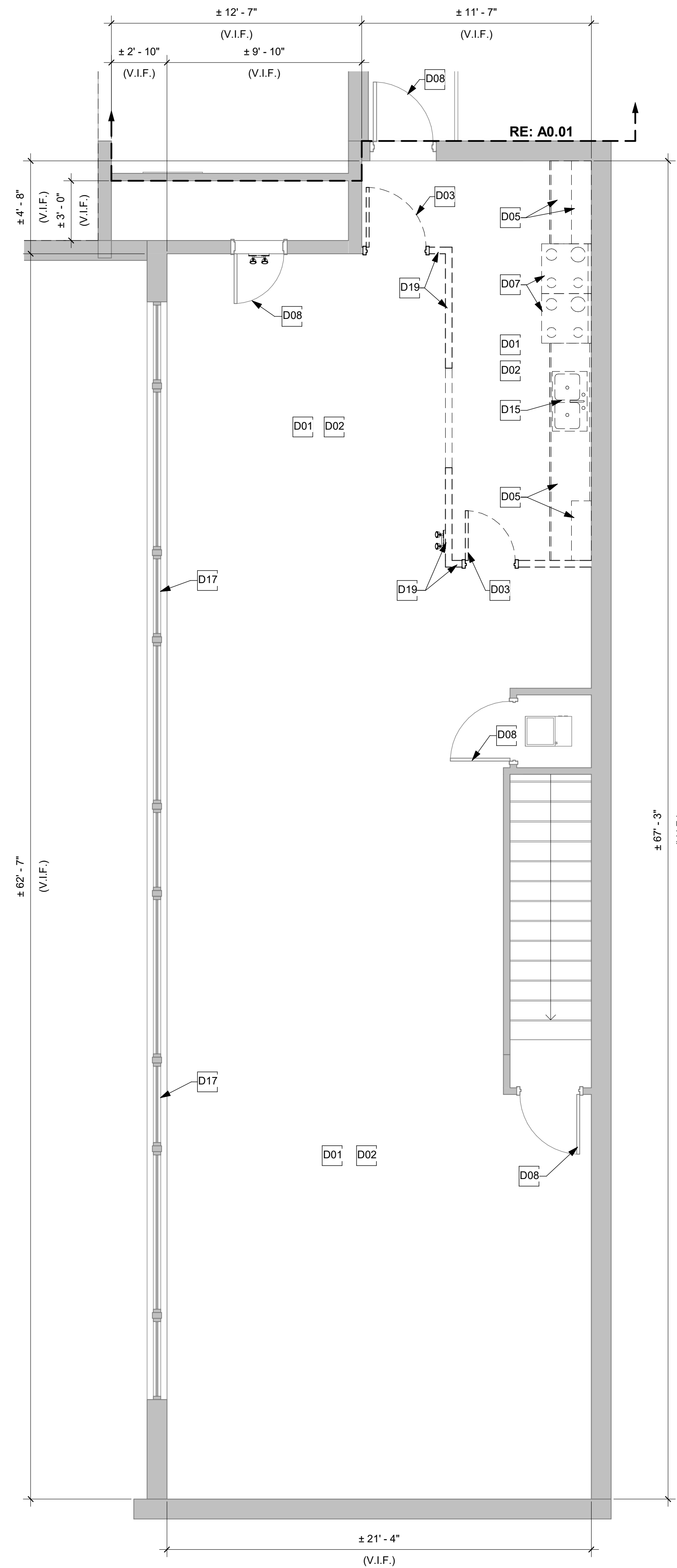


**5D DEMOLITION AUDITORIUM FLOOR PLAN**  
1/4" = 1'-0"

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**5C** DEMOLITION CLASSROOM WING FIRST FLOOR PLAN  
1/4" = 1'-0"



**5E** DEMOLITION CLASSROOM WING SECOND FLOOR PLAN  
1/4" = 1'-0"

DEMOLITION KEYNOTES	
D01	REMOVE EXISTING FLOOR FINISH MATERIAL, BASE, AND ASSOCIATED ADHESIVE. NOTE: THE EXISTING TILES AND/OR ADHESIVE COULD CONTAIN ASBESTOS MATERIALS.
D02	REMOVE EXISTING CEILING AND ASSOCIATED SUPPORT/ GRID SYSTEM.
D03	REMOVE EXISTING DOOR AND FRAME.
D04	REMOVE EXISTING DOOR, FRAME, AND HARDWARE. PREP EXISTING OPENING AS REQUIRED FOR NEW CMU BLOCK INFILL.
D05	REMOVE EXISTING MILLWORK / CASEWORK THIS AREA.
D06	REMOVE EXISTING PLUMBING FIXTURES AND CAP UTILITIES AT FLOOR SLAB, RE:PLUMBING.
D07	REMOVE EXISTING KITCHEN EQUIPMENT. CAP UTILITIES AT FLOOR SLAB, RE:MECHANICAL.
D08	EXISTING DOOR AND FRAME TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION. PREP AS REQUIRED FOR REFINISHING.
D10	REMOVE EXISTING STAIR TREAD AND RISER FINISH. STAIR STRUCTURE TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
D11	EXISTING STAIR RAILING TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
D12	REMOVE EXISTING STAIR AND SUPPORTING SUB-STRUCTURE.
D13	REMOVE EXISTING RAISED FLOOR AND SUPPORTING SUB-STRUCTURE THIS AREA.
D14	EXISTING CEILING TO REMAIN. PROTECT AT ALL TIMES DURING CONSTRUCTION.
D15	REMOVE EXISTING PLUMBING FIXTURES AND TEMPORARILY CAP UTILITIES. PREP FOR NEW PLUMBING FIXTURES, RE:PLUMBING.
D16	REMOVE EXISTING WOOD PARTITION.
D17	REMOVE EXISTING WINDOW SHADES, TYP. PROTECT EXISTING WINDOW SYSTEM TO REMAIN.
D18	EXISTING STOREFRONT SYSTEM TO REMAIN.
D19	REMOVE EXISTING CMU PARTITION.
D20	REMOVE EXISTING MECHANICAL EQUIPMENT, RE:MECHANICAL.

\*\*\* PATCH / REPAIR ALL EXISTING WALLS / GYP. BOARD FINISH TO REMAIN WHERE DAMAGE MAY HAVE OCCURRED IN DEMOLITION OF EXISTING CONDITIONS

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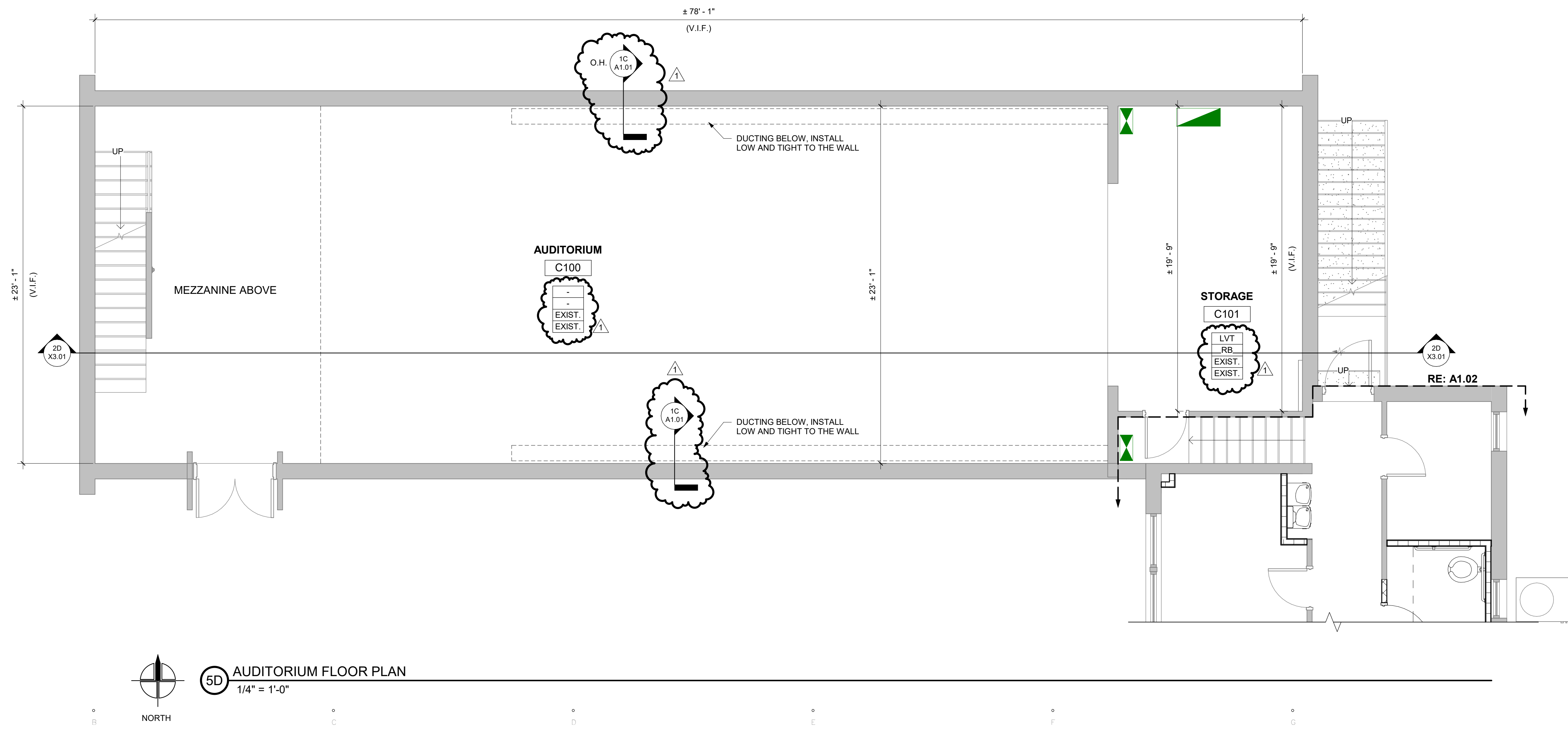
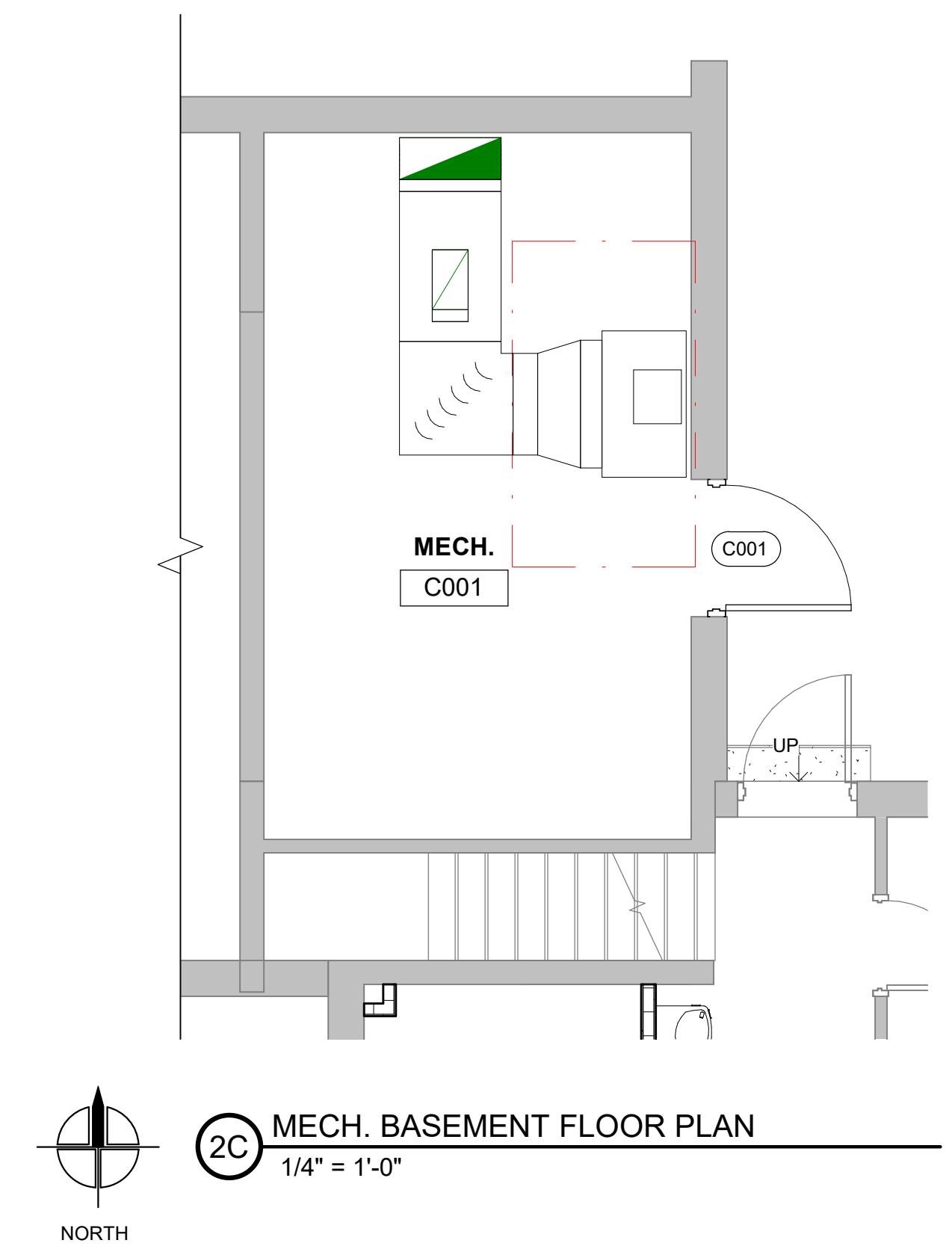
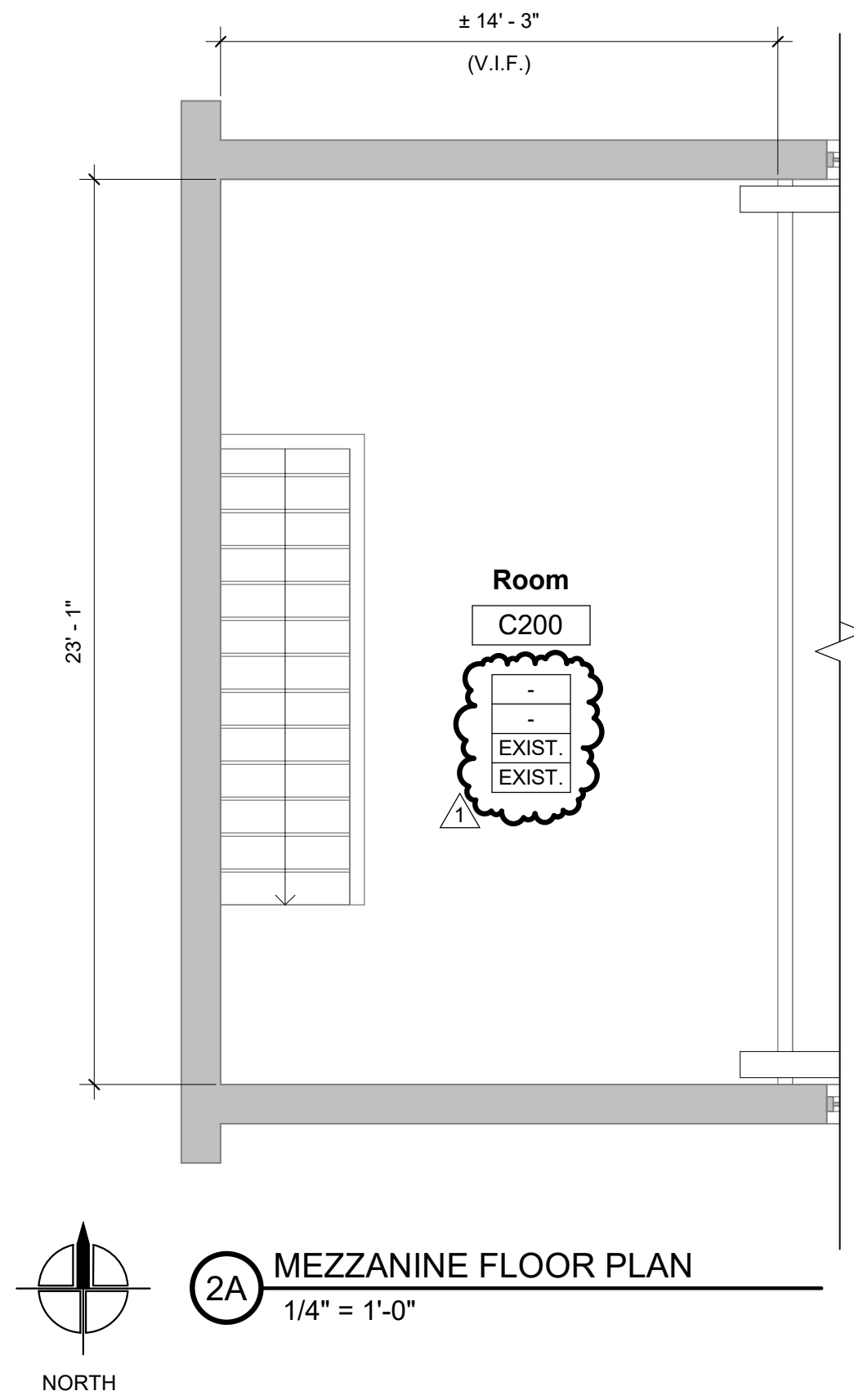
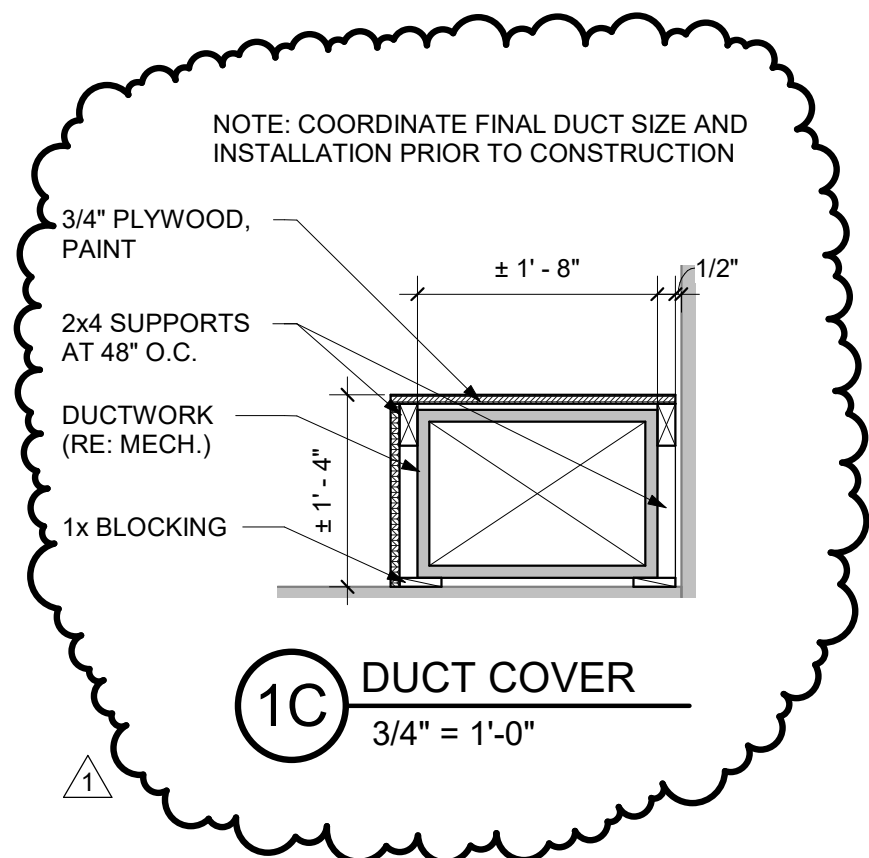
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21085  
DATE:  
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DEMOLITION  
CLASSROOM WING  
FLOOR PLAN

**A0.02**

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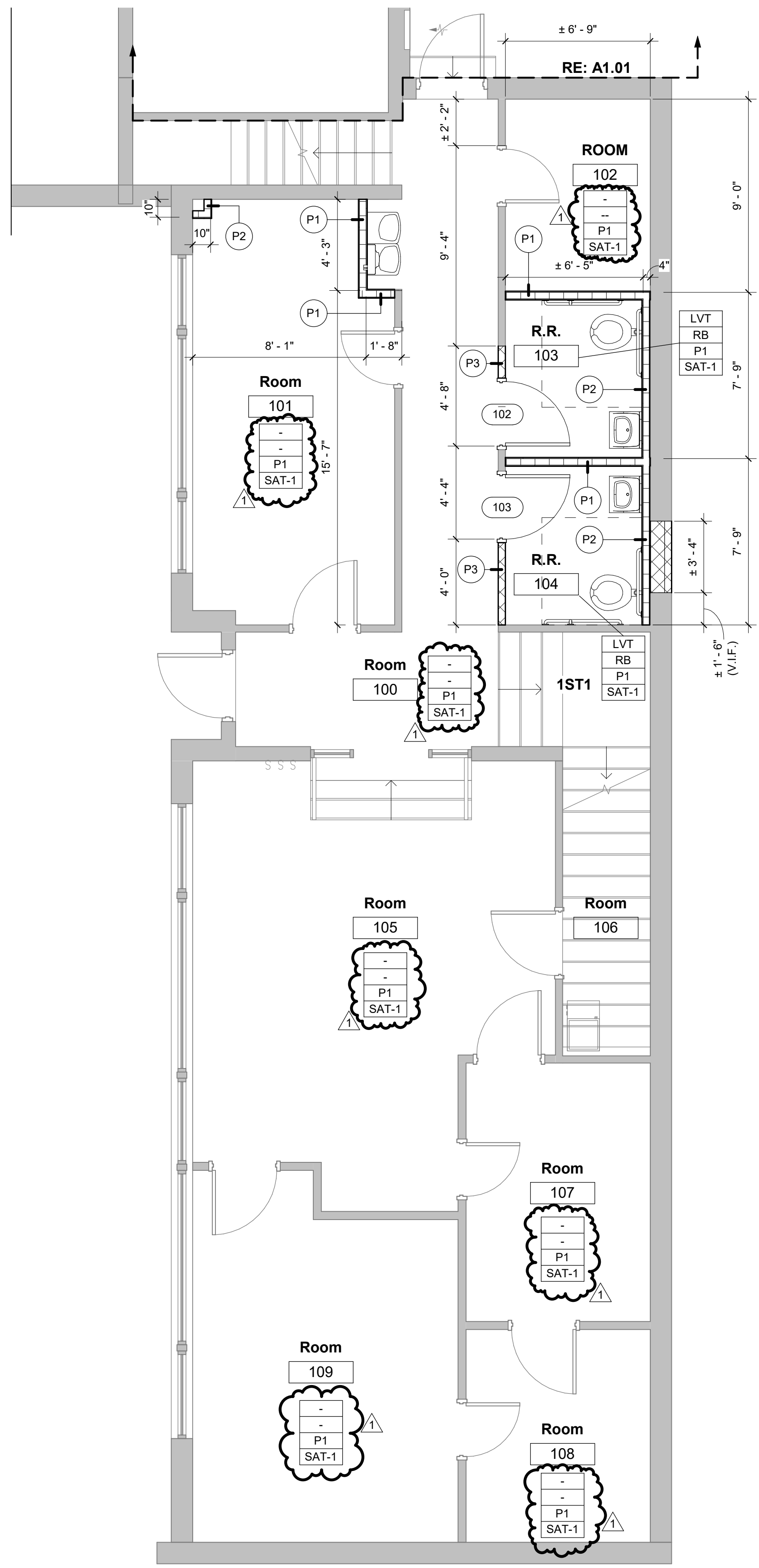
PROJECT NO. 21085  
DATE: June 14, 2022

AUDITORIUM FLOOR PLANS

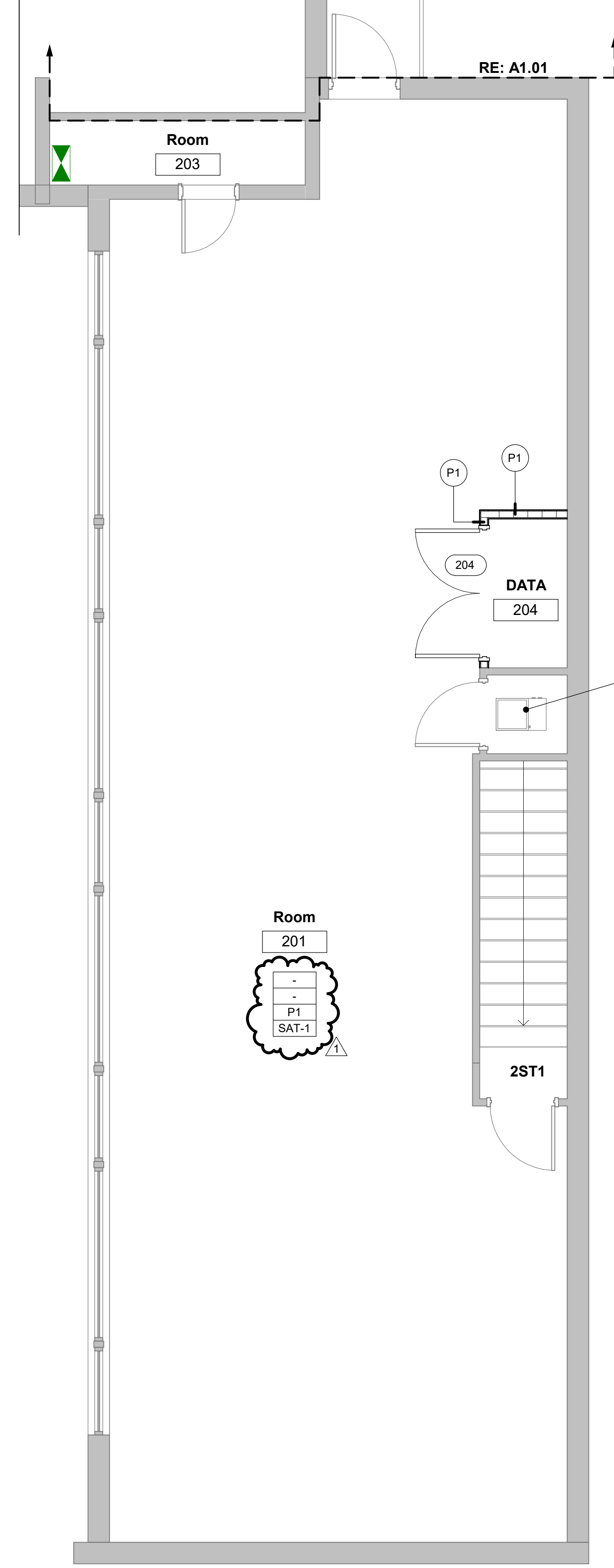
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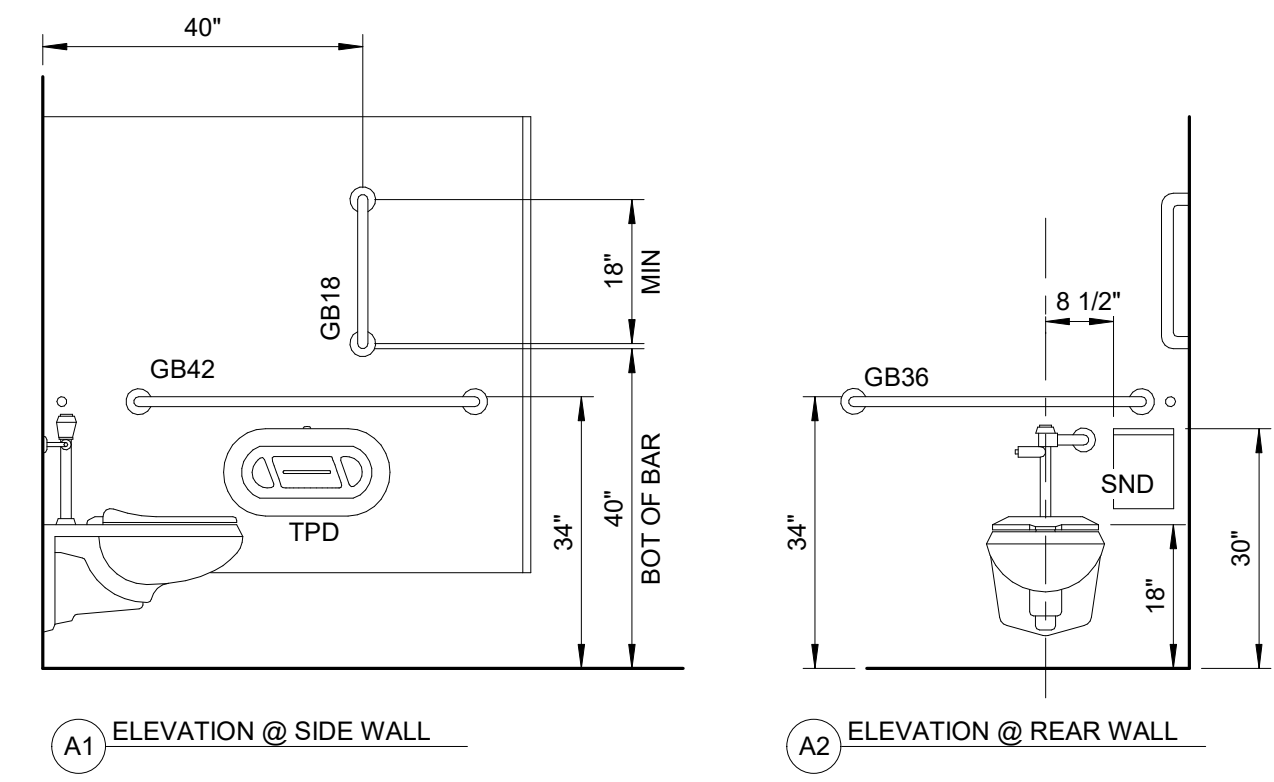
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**5A** FIRST FLOOR PLAN  
1/4" = 1'-0"

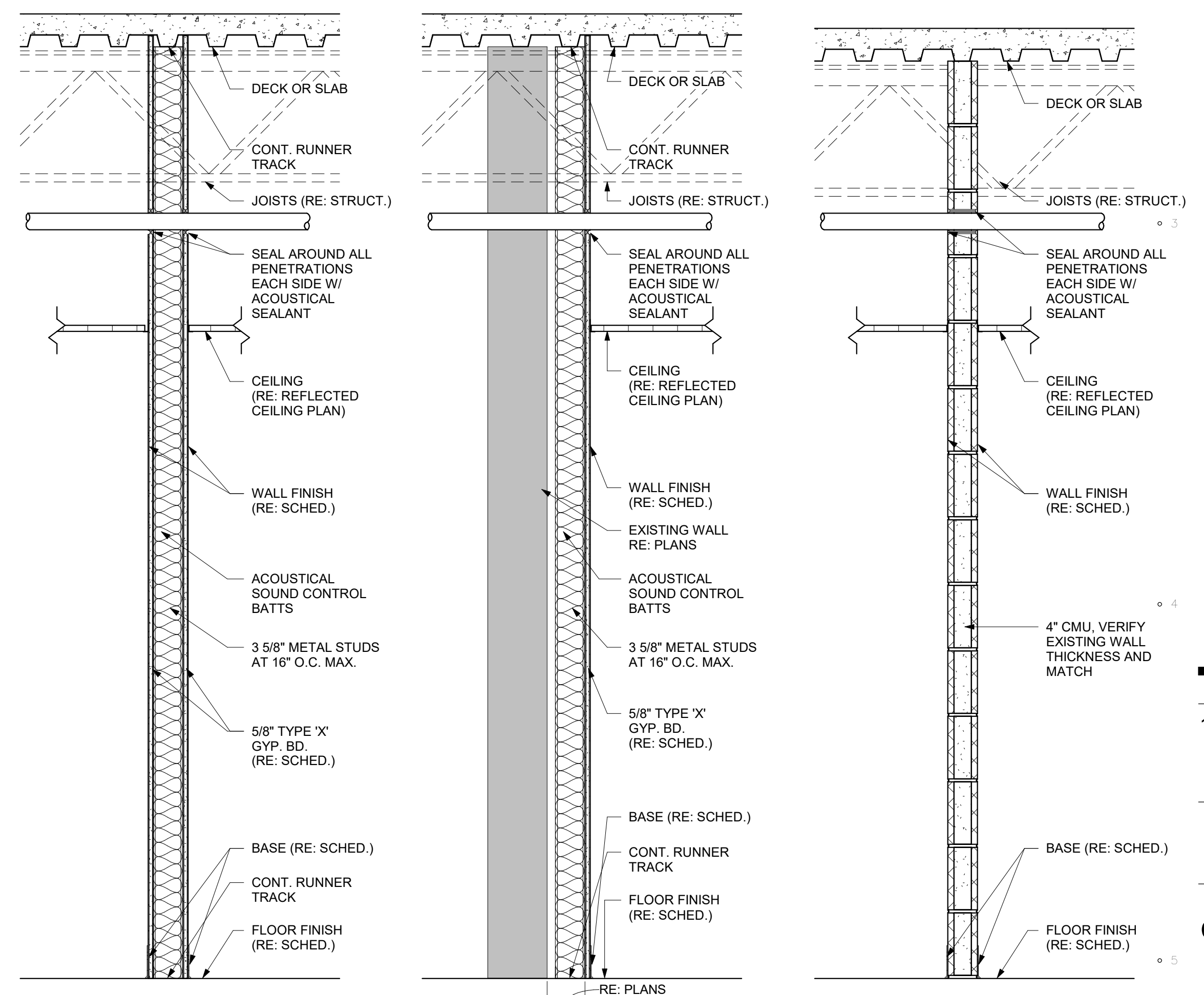


**5E** SECOND FLOOR PLAN  
1/4" = 1'-0"



**A1** ELEVATION @ SIDE WALL  
**A2** ELEVATION @ REAR WALL

**1G** TYPICAL TOILET ACCESSORY LOCATION  
1/2" = 1'-0"



**P1** NON-RATED NON-BEARING SOUND PARTITION

**P2** NON-RATED NON-BEARING FURRING PARTITION

**P3** NON-RATED NON-BEARING CMU PARTITION

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1	ASI 01	9/13/22
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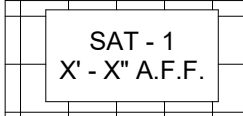
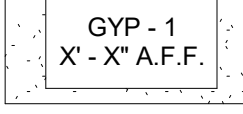
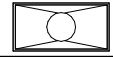

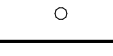




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DATE: June 14, 2022

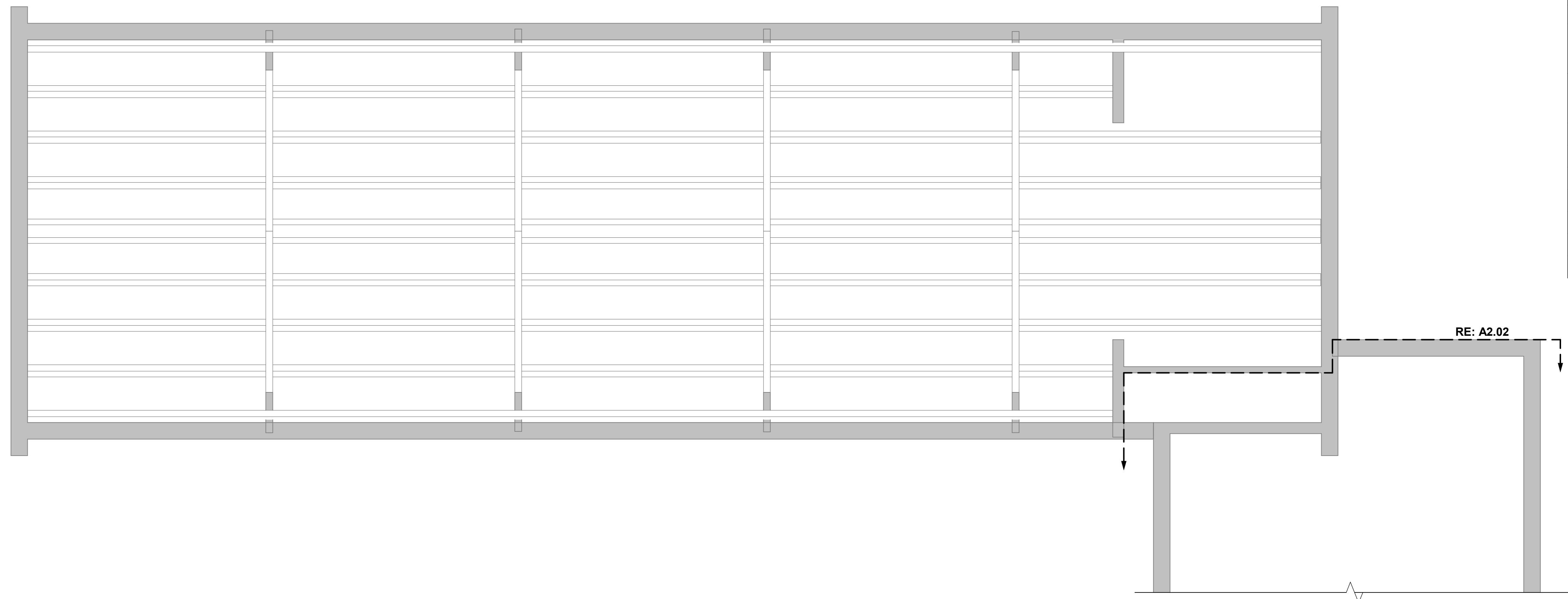
**CLASSROOM WING  
FLOOR PLAN**

**A1.02**

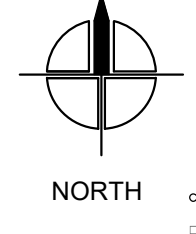
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REFLECTED CEILING LEGEND	
SYMBOL	DESCRIPTION
	SAT - 1: 2x2 SUSPENDED ACOUSTICAL LAY-IN CEILING TILE AND GRID, TYPE 1 SEE SPECIFICATIONS
	GYPSUM BOARD CEILING OR SOFFIT
	2x4 LIGHT FIXTURE, RE: ELEC.
	2x2 LIGHT FIXTURE, RE: ELEC.
	CAN LIGHT FIXTURE, RE: ELEC.
	EXIT LIGHT, RE: ELEC.
	2x2 SUPPLY AIR GRILLE, RE: MECH.
	2x2 RETURN AIR GRILLE, RE: MECH.
	2x2 EXHAUST GRILLE, RE: MECH.



**2E** MEZZANINE REFLECTED CEILING PLAN  
1/4" = 1'-0"



**2A** AUDITORIUM REFLECTED CEILING PLAN  
1/4" = 1'-0"

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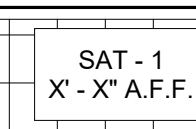








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DATE:  
June 14, 2022

AUDITORIUM  
REFLECTED  
CEILING PLAN

# A2.01

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REFLECTED CEILING LEGEND	
SYMBOL	DESCRIPTION
	SAT - 1: 2x2 SUSPENDED ACOUSTICAL LAY-IN CEILING TILE AND GRID, TYPE 1 SEE SPECIFICATIONS
	GYP - 1: GYPSUM BOARD CEILING OR SOFFIT
	2x4 LIGHT FIXTURE, RE: ELEC.
	2x2 LIGHT FIXTURE, RE: ELEC.
	CAN LIGHT FIXTURE, RE: ELEC.
	EXIT LIGHT, RE: ELEC.
	2x2 SUPPLY AIR GRILLE, RE: MECH.
	2x2 RETURN AIR GRILLE, RE: MECH.
	2x2 EXHAUST GRILLE, RE: MECH.

**310 ARKANSAS AVE RENOVATION  
UNIVERSITY OF ARKANSAS**

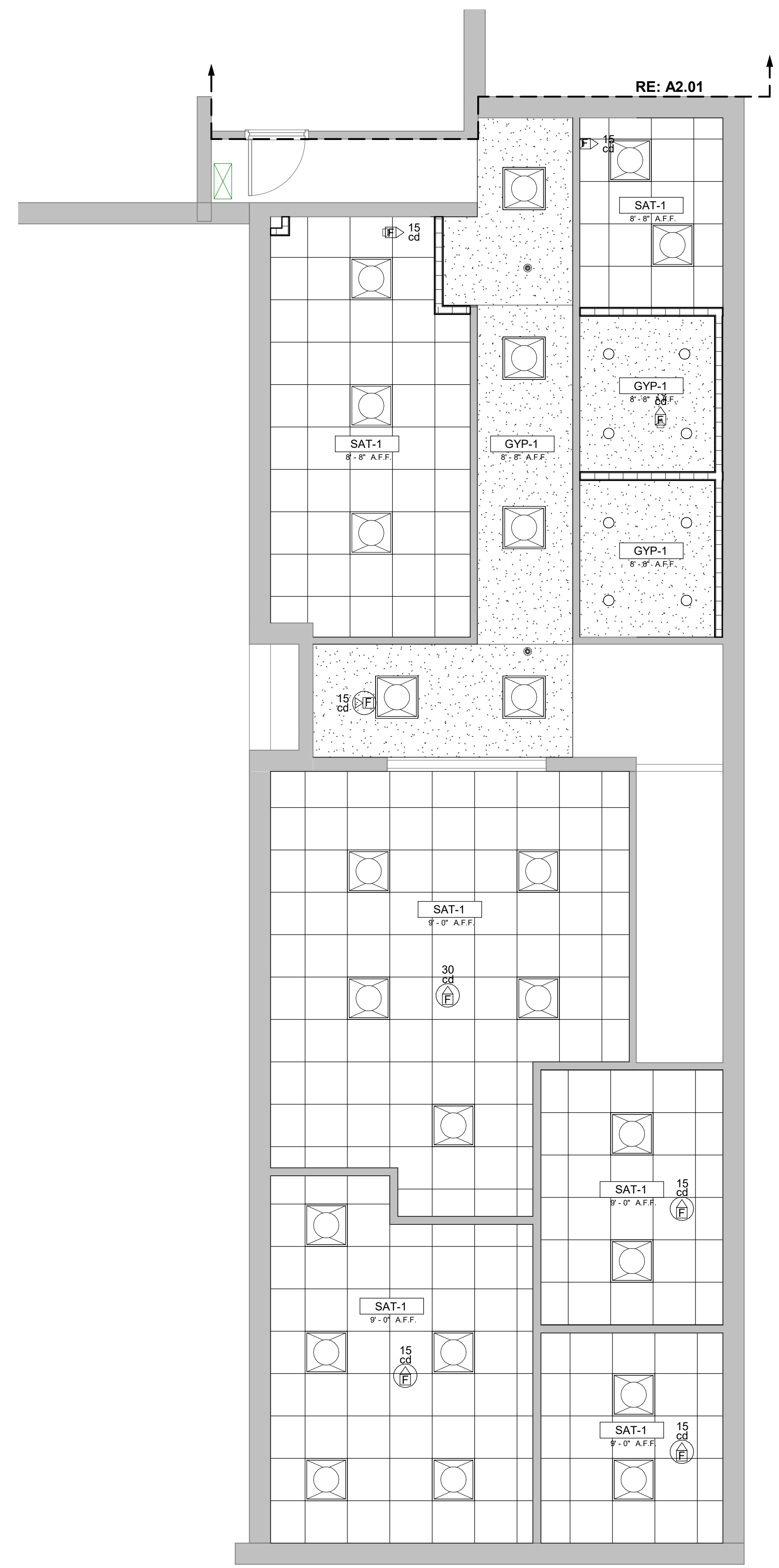
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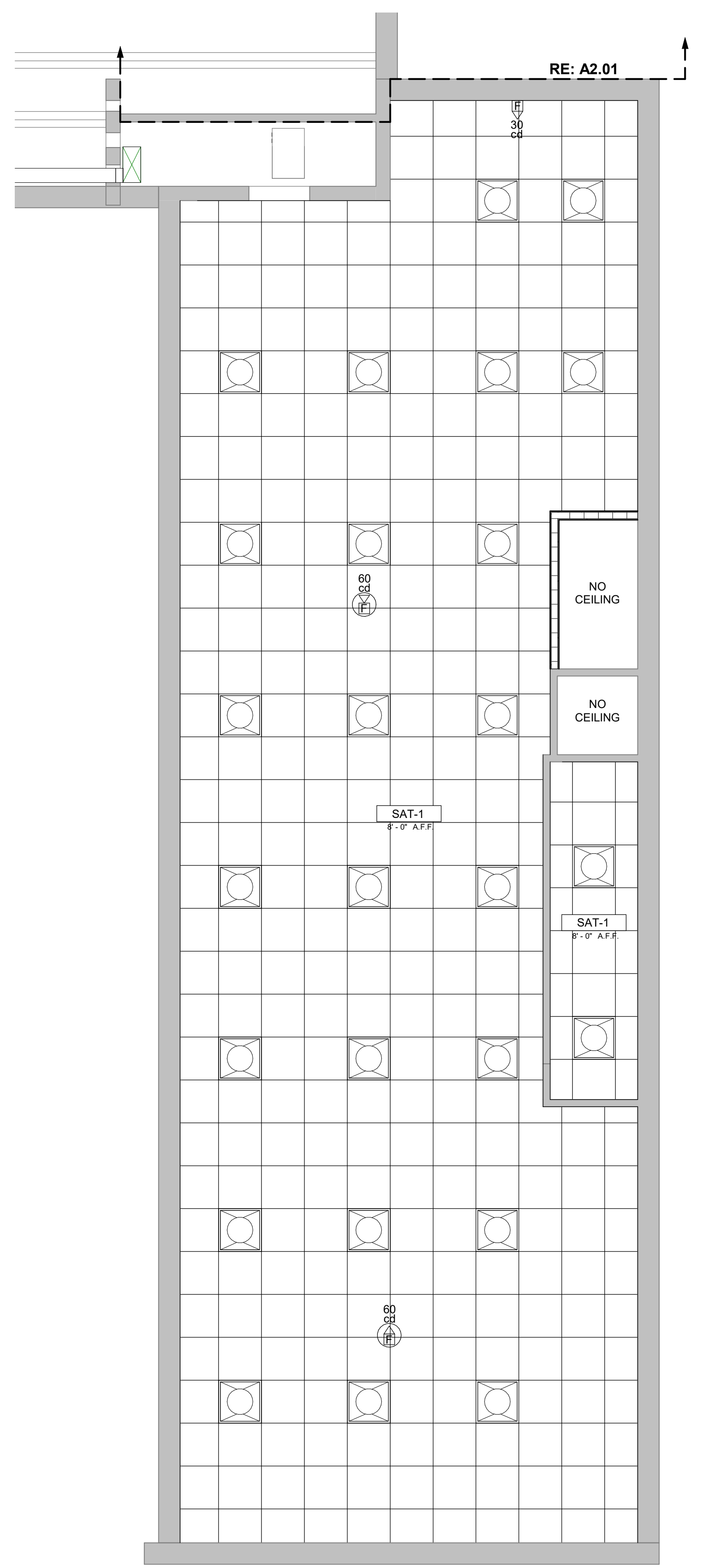
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DATE:  
June 14, 2022

CLASSROOM WING  
REFLECTED  
CEILING PLAN

**A2.02**



**5A CLASSROOM WING FIRST FLOOR REFLECTED CEILING PLAN**  
1/4" = 1'-0"



**5E CLASSROOM WING SECOND FLOOR REFLECTED CEILING PLAN**  
1/4" = 1'-0"



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Key Name	LOCATION	TYPE	MANUFACTURER	PRODUCT INFORMATION	FINISH	NOTES	CONTACT
<b>FLOOR FINISH</b>							
CPT	THROUGHOUT	MODULAR CARPET	SHAW CONTRACT	COLLECTION: COMMUNITY / FLAT WEAVE TILE   COLOR: ARGAN (5F321)   SIZE: 9" X 36"			
LVT	AS NOTED	LVT	ARMSTRONG	COLLECTION: BIOME 9" X 48"			
<b>FLOOR BASE</b>							
RB	AS NOTED	RUBBER BASE	ROPPE	CONTINUOUS 4" VINYL COVE BASE   COLOR: "193 BLACK BROWN"			
<b>WALL FINISH</b>							
P1	THROUGHOUT	PAINT	SHERWIN WILLIAMS	COLOR: PURE WHITE SW7005	EGGSHELL		
<b>CEILING FINISH</b>							
GYP-1	RESTROOMS	PAINT	SHERWIN WILLIAMS	COLOR: PURE WHITE SW7005	FLAT		
SAT-1	THROUGHOUT	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA HIGH NRC   1942   SIZE: 24" X 24" X 7/8"   NRC: .80   CAC:35   GRID: SUPRAFINE 9/16" SUSPENSION SYSTEM			

### HARDWARE SET SCHEDULE

#### HARDWARE SETS

NOTE: The following is a general listing of the minimum hardware requirements. Any item of hardware normally required by good practice, or as to meet State and Local codes, shall be furnished even though it may not be specifically mentioned.

#### HW-1 (DOOR 102 / 103 - RESTROOM)

Each to have:  
 (I) 3 BUTTS 5BB1 4.5 x 4.5  
 (SC) 1 LOCK ND40S  
 (I) 1 STOP WS406CVX

#### HW-2 (DOUBLE DOOR 204 - DATA)

Each to have:  
 (I) 3 BUTTS 5BB1 4.5 x 4.5  
 (SC) 1 LOCK ND80PD  
 (I) 1 STOP WS406CVX  
 (R) 2 FLUSH BOLT 555

#### HW-3 (DOOR C103 - MECH.)

Each to have:  
 (1) 3 HINGE 224HD DARK BRONZE  
 (V) 1 PANIC DEVICE 99L x 996L x 17 x SNB  
 (SC) 1 CYLINDER  
 (L) 1 CLOSER 4040 CUSH x SNB  
 (I) 1 STOP WS406CVX  
 (NG) 1 THRESHOLD 425HD - RCE x WS/PA  
 (NG) 1 DOOR BOTTOM 200N  
 (NG) 1 SET GASKETING 5050  
 (NG) 1 RAIN DRIP 15 DW + 4"  
 (R) 2 FLUSH BOLT 555

#### MANUFACTURERS

A. Product numbers listed are taken from the catalogs of the manufacturers listed as follows:  
 (I) H.B. Ives (L) LCN  
 (SC) Schlage (NG) National Guard Products  
 (V) Von Duprin (R) Rockwood

#### WOOD DOORS:

SOLID CORE FLUSH WOOD DOOR EQUAL TO GRAHAM PREMIUM WOOD DOOR GPD PC - FD-20. DOOR TO BE PLAIN SLICED RED OAK - PAINT GRADE. PAINT DOOR TO MATCH WALL COLOR. COORDINATE PAINT FINISH WITH ARCHITECT.

#### HOLLOW METAL FRAMES:

HOLLOW METAL DOORS FRAMES TO BE 16 GAUGE. PAINT FRAMES TO MATCH WALL COLOR. COORDINATE WITH ARCHITECT.

#### DOOR HARDWARE:

ALL LOCKSET LEVERS TO BE CORBIN/RUSSWIN MORTISE 2000 AS COORDINATED WITH THE OWNER. LEVER TO BE 'NEWPORT' TO MATCH ADJACENT EXISTING DOORS. THE KEYWAY SHOULD BE CORBIN/RUSSWIN D1 (COORD. WITH OWNER). MATCH EXISTING ADJACENT FINISHES. ALL DOOR CLOSERS TO BE ADJUSTED TO MEET ADA REQUIRED 5LBS OF OPENING PRESSURE.

#### KEYING:

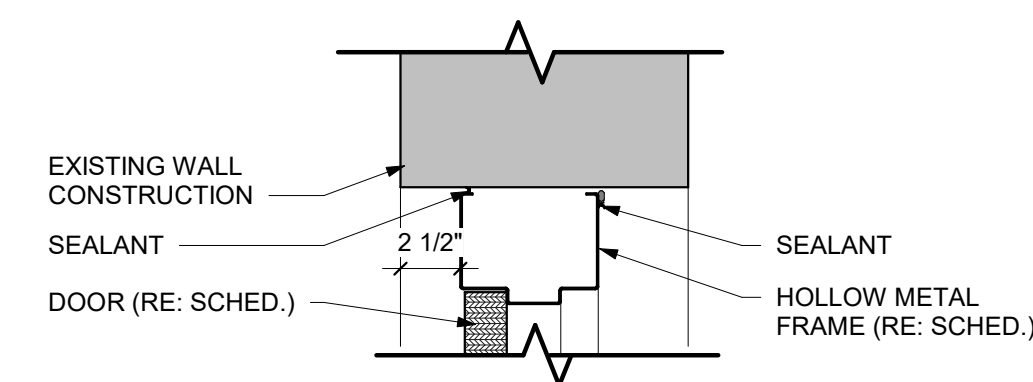
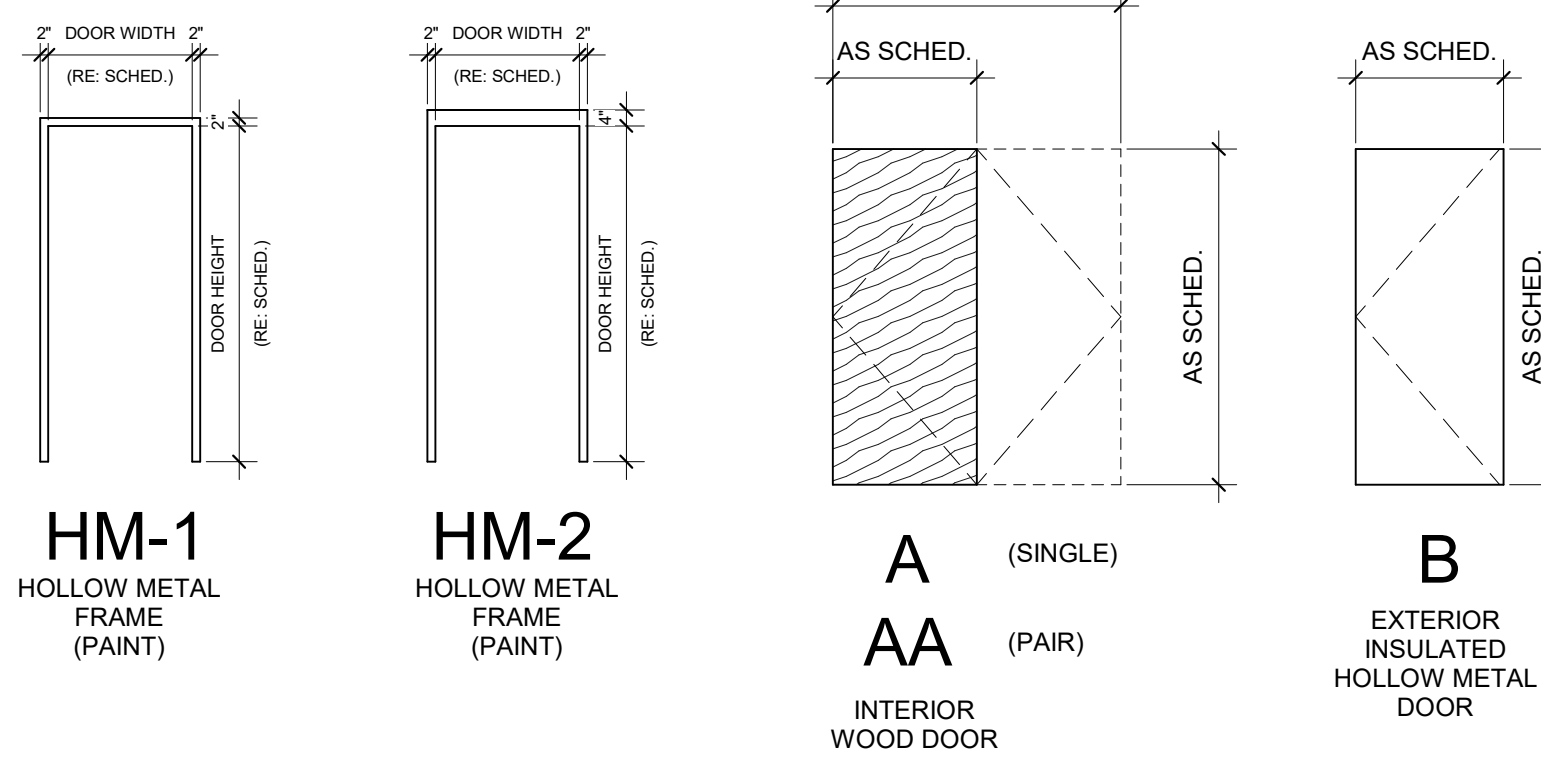
ALL HARDWARE TO BE KEYPED TO BUILDING MASTER AND TO MEET UNIVERSITY STANDARDS. COORDINATE CORES W/ UNIVERSITY PRIOR TO PROCUREMENT. NO DOORS KEYPED ALIKE. CONFIRM WITH OWNER NUMBER OF KEYS REQUIRED.

#### HARDWARE FINISHES:

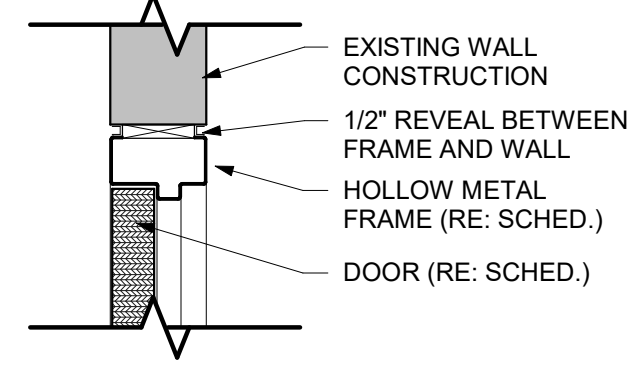
DOOR HARDWARE FINISHES IN GENERAL TO BE US26.  
 NOTE - COORDINATE FINAL FINISH SELECTION WITH ARCHITECT AND OWNER.

### DOOR SCHEDULE

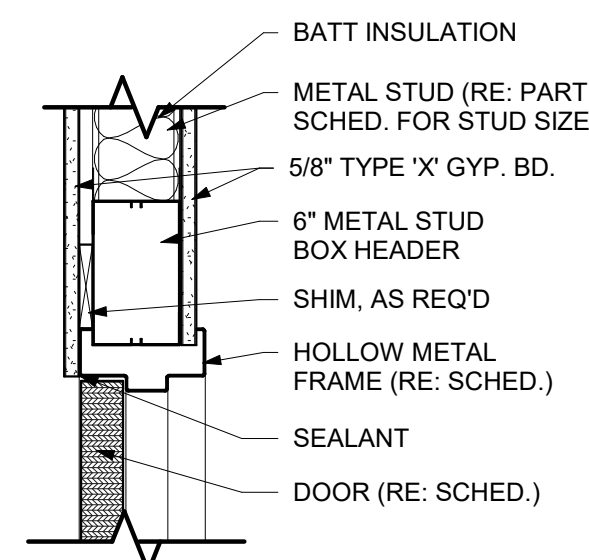
NUMBER	DOOR			FRAME			SET NO	NOTES
	TYPE	WD	HGT	TYPE	HEAD	JAMB		
102	A	3' - 0"	6' - 0"	HM-2	4C/A4.01	5C/A4.01	HW-1	
103	A	3' - 0"	6' - 0"	HM-2	4C/A4.01	5C/A4.01	HW-1	
204	AA	6' - 0"	7' - 0"	HM-1	4F/A4.01	5F/A4.01	HW-2	
C001	B	3' - 6"	6' - 0"	HM-2	4A/A4.01	5A/A4.01	HW-3	



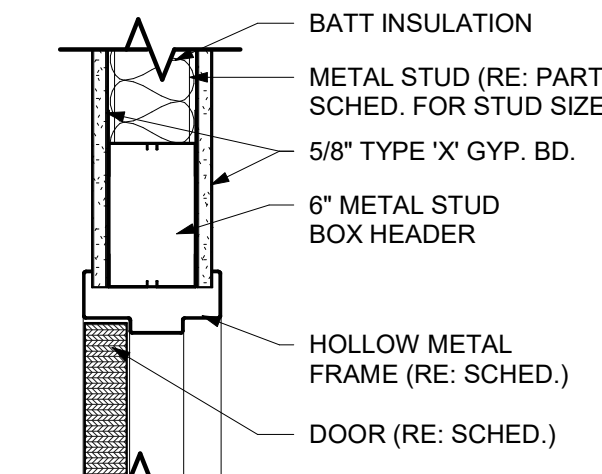
**4A** EXTERIOR HEAD DETAIL  
1 1/2" = 1'-0"



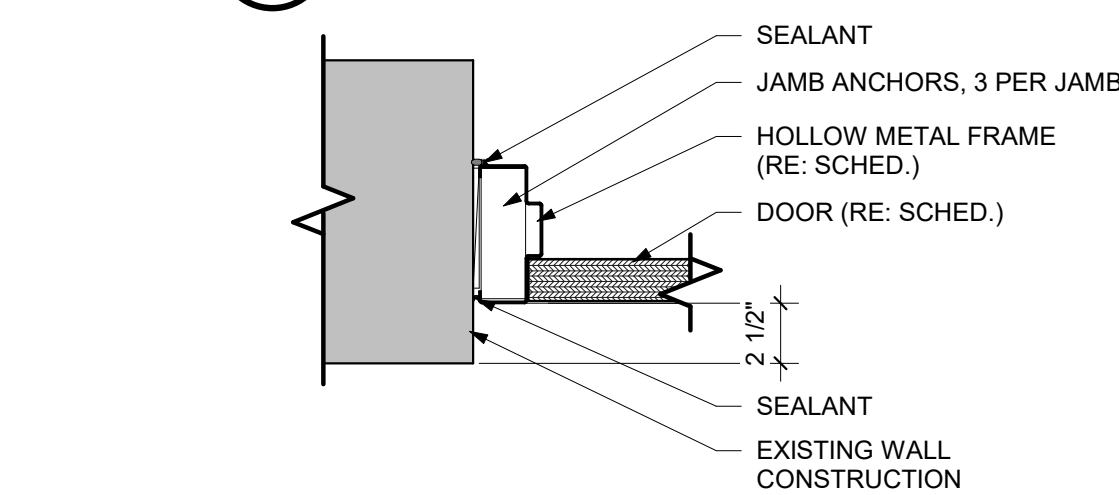
**4C** INTERIOR HEAD DETAIL AT EXIST. CMU  
1 1/2" = 1'-0"



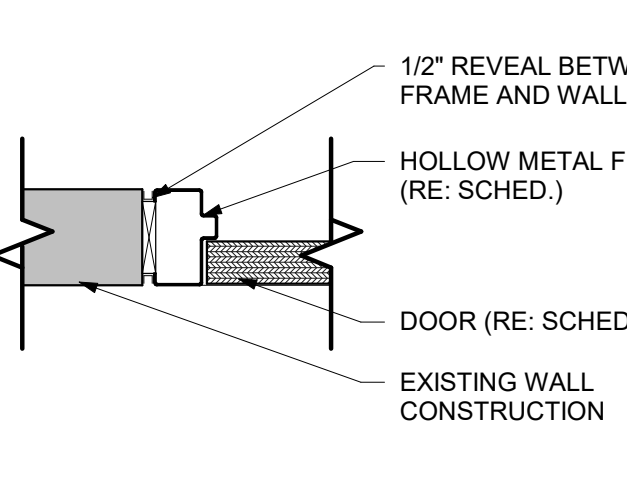
**4D** INTERIOR HEAD DETAIL  
1 1/2" = 1'-0"



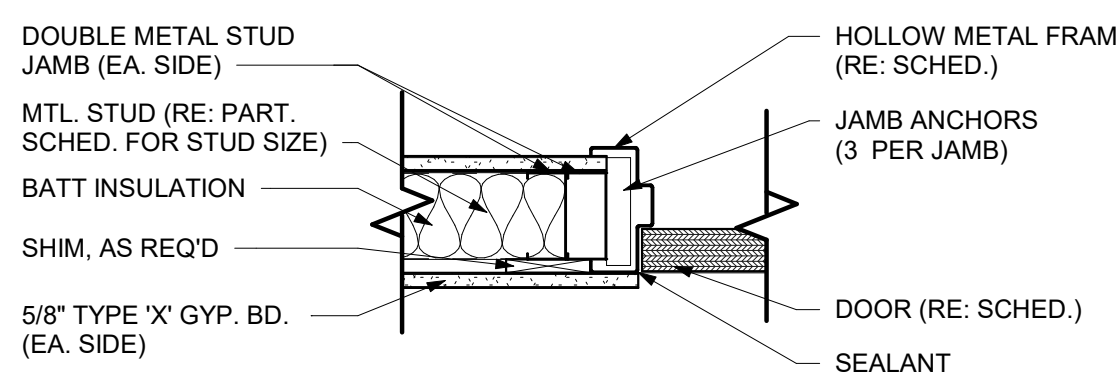
**4F** INTERIOR HEAD DETAIL  
1 1/2" = 1'-0"



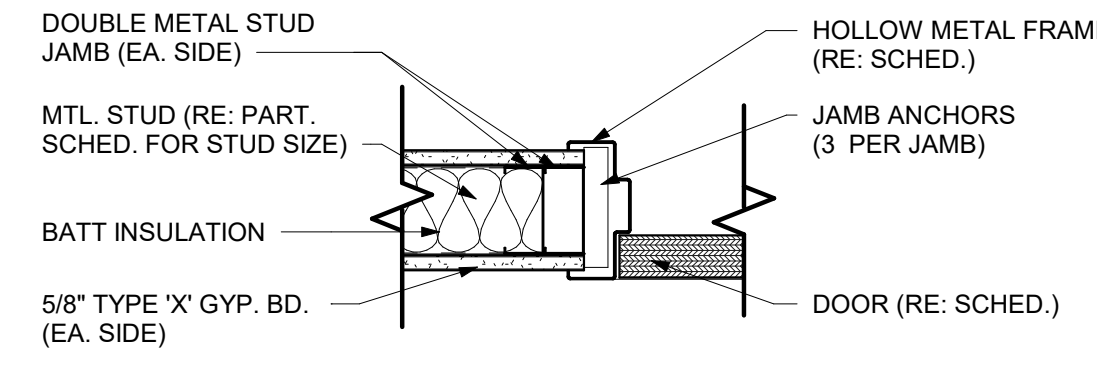
**5A** EXTERIOR JAMB DETAIL  
1 1/2" = 1'-0"



**5C** INTERIOR JAMB DETAIL AT EXIST. CMU  
1 1/2" = 1'-0"



**5D** INTERIOR JAMB DETAIL  
1 1/2" = 1'-0"



**5F** INTERIOR JAMB DETAIL  
1 1/2" = 1'-0"

### GENERAL FINISH NOTES

- REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL FINISH MATERIAL REQUIREMENTS. ANY DISCREPANCY BETWEEN THIS SCHEDULE AND OTHER CONTRACT DOCUMENTS OR FIELD CONDITIONS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR RESOLUTION AS OUTLINED IN THE GENERAL CONDITIONS AND DIVISION 01 SECTION - 'QUALITY REQUIREMENTS'.
- IT IS THE INTENT OF THESE DRAWINGS THAT ALL EXPOSED SURFACES RECEIVE NEW FINISHES AS INDICATED ON THE DRAWINGS OR WRITTEN SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE. ANY SURFACE WHICH DOES NOT HAVE A FINISH NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND FINISHED PER THE ARCHITECT'S INSTRUCTIONS.
- PRODUCTS LISTED AS BASIS OF DESIGN HEREIN AND ON THE FINISH SCHEDULE HAVE BEEN COORDINATED WITH OTHER FINISHES AND APPROVED BY THE OWNER. SUBMITTALS MUST COMPLY WITH SPECIFICATION SECTION 01 33 00 - 'SUBMITTAL PROCEDURES'.
- ANY SUBSTITUTIONS TO THE BASIS OF DESIGN PRODUCT LISTED MUST BE SUBMITTED FOR REVIEW AND APPROVAL AND SUBMITTED IN A MANNER THAT COMPLIES WITH SPECIFICATION SECTION 01 25 00 - 'SUBSTITUTION PROCEDURES'. AN EQUIVALENT MANUFACTURER SUBMITTED MUST MATCH PERFORMANCE, QUALITY, COLOR, PATTERN AND FINISH OF THE REFERENCED MANUFACTURER ON THE FINISH SCHEDULE. REFER TO THE WRITTEN SPECIFICATIONS FOR FURTHER DETAILS ON ALL FINISH MATERIALS.
- THE CONTRACTOR SHALL IDENTIFY AND PRIORITIZE ALL LEAD TIMES FOR MATERIALS SPECIFIED TO AVOID SCHEDULE CONFLICTS. THIS INCLUDES MATERIALS REQUIRING MOCKUPS. NEITHER THE OWNER NOR ARCHITECT WILL BE HELD RESPONSIBLE FOR INACTION ON THE PART OF THE CONTRACTOR RESULTING IN ADDITIONAL EXPEDITED SHIPPING COSTS OR DELAYS TO THE CONSTRUCTION SCHEDULE.
- CONTRACTOR TO CONFIRM ALL TRANSITIONS TO EXISTING FLOORING MATERIALS WITH THE ARCHITECT BEFORE PROCEEDING.
- PROVIDE SUBFLOOR LEVELERS WHERE NECESSARY FOR SMOOTH TRANSITIONS OF ALL FLOOR FINISH MATERIALS. REFER TO FLOOR TRANSITION DETAILS ON SHEET (\*\*) FOR ALL CONDITIONS.
- ALL WALL FINISHES TO BE APPLIED FROM BREAK-IN-PLANE TO BREAK-IN-PLANE EVEN IF EXTENDS BEYOND AREA DISTURBED BY RENOVATION WORK.
- CLOSETS OF ROOMS WITHOUT SPECIFIC FINISHES SHALL BE FINISHED WITH SAME FINISHES AS THE ADJOINING ROOM. PAINT GRADE SHELVE TO BE PAINTED TO MATCH ADJACENT WALL COLOR IN SEMIGLOSS FINISH.
- HM & PAINT GRADE WOOD DOORS & DOOR FRAMES SHALL BE PAINTED FINISH (P\*) UNO. REFER TO DOOR SCHEDULES ON SHEET (\*\*) FOR FURTHER DETAILS.
- HM & PAINT GRADE WOOD FRAMES OF GLAZED OPENINGS SHALL BE PAINTED FINISH (P\*) UNO.
- STOREFRONT, DEMOUNTABLE WALLS AND/OR OPERABLE PARTITIONS SHALL BE FACTORY FINISHED IN COLOR SELECTED FROM MANUFACTURERS STANDARD OFFERING UNO AND AS REFERENCED ON THE FINISH SCHEDULE.
- ALL DRYWALL SOFFITS, FASCIAS, AND CEILINGS TO BE PAINTED FINISH (P\*) UNO. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
- HANDRAILS AND GUARD RAILS OF STAIRS SHALL BE PAINTED FINISH (P\*) UNO. STAIR STRINGERS SHALL BE PAINTED FINISH (P\*).
- REFER TO SHEET (\*\*) AND WRITTEN SPECIFICATION SECTION 14 \*\*\* FOR FURTHER DETAILS AND FINISHES OF ELEVATOR CAB INTERIOR.
- CONTRACTOR TO PROVIDE MAINTENANCE INSTRUCTIONS FOR ALL FINISHES TO OWNER AT SUBSTANTIAL COMPLETION.

### FINISH SCHEDULE LEGEND

#### LEGEND KEY

- XXX INDICATES OVERALL FLOOR TREATMENT
- XXX INDICATES OVERALL BASE TREATMENT
- XXX INDICATES OVERALL WALL TREATMENT
- XXX INDICATES OVERALL CEILING TREATMENT
- (X) INDICATES ACCENT TREATMENT
- (X)(X) INDICATES TWO WALL FINISHES. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION
- (XX) INDICATES MILLWORK TREATMENT
- (XXXX) INDICATES COUNTERTOP TREATMENT
- INDICATES CASEWORK TREATMENT
- INDICATES CHANGE OF MATERIALS, SEE TRANSITION DETAILS
- CG INDICATES CORNERGUARD
- INDICATES WALL PROTECTION EXTENT

#### MATERIAL CODES

A	ACOUSTICAL TILE	SS	SOLID SURFACE
B	BASE	SST	STAINLESS STEEL
BG	BUMPER GUARD	SWR	SHOWER CURTAIN
C	CARPET	TB	TILE BASE
CC	CUBICLE CURTAIN	TF	TILE FLOOR
CG	CORNER GUARD	TP	TOILET PARTITION
CR	CRASH RAIL	TW	TILE WALL
E	EPOXY FLOORING	TZ	TERRAZZO
EP	EPOXY PAINT	U	UPHOLSTERY
EX	EXISTING TO REMAIN	W	WALL COVERING
HR	HAND RAIL	WD	WOOD
IB	INTEGRAL	WM	WALKOFF MAT
L	LAMINATE	WP	WALL PROTECTION
P	PAINT	WT	WINDOW TREATMENT
RF	RESILIENT FLOOR	XC	SPECIALTY CEILING
S	STONE	XF	SPECIALTY FLOOR
SC	SEALED CONCRETE	XW	SPECIALTY WALL
SPG	SPECIALTY GLASS		

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#### PROJECT NO.

21085

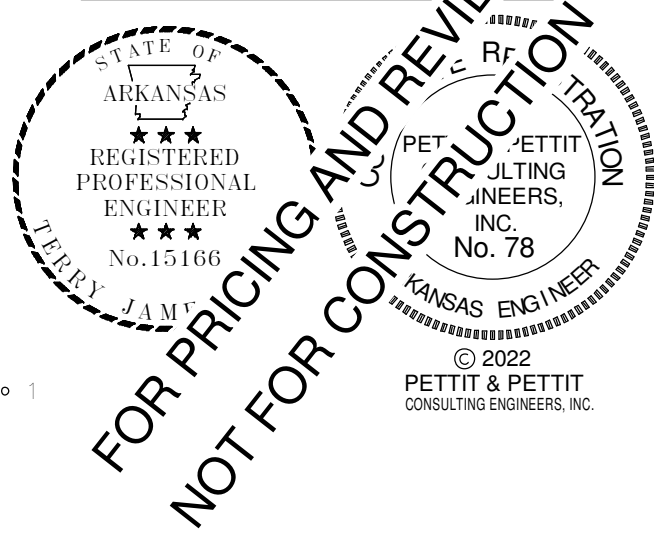
#### DATE:

June 14, 2022

### FINISH AND DOOR SCHEDULE

**A3.01**

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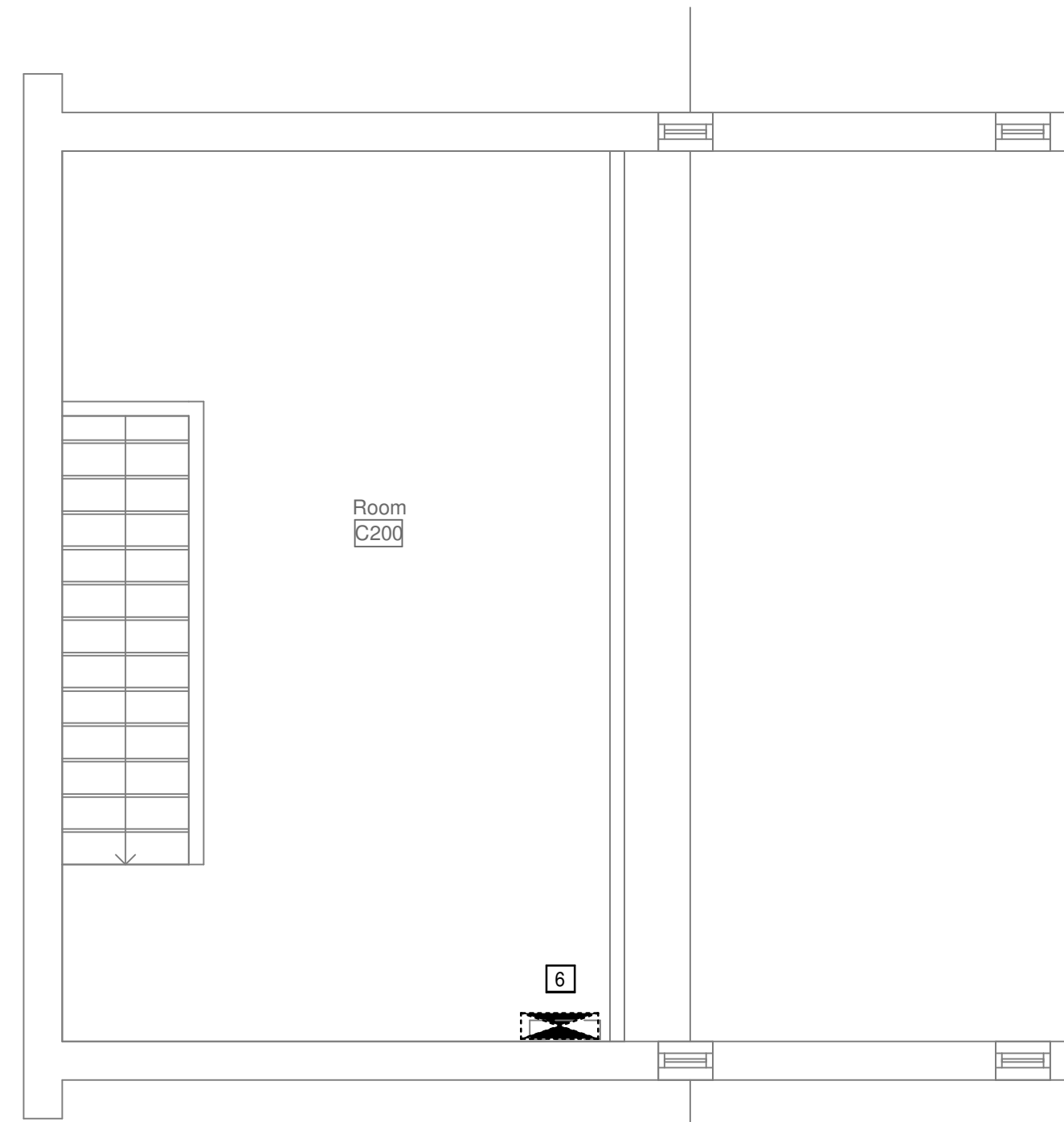


**HVAC GENERAL DEMOLITION NOTES**

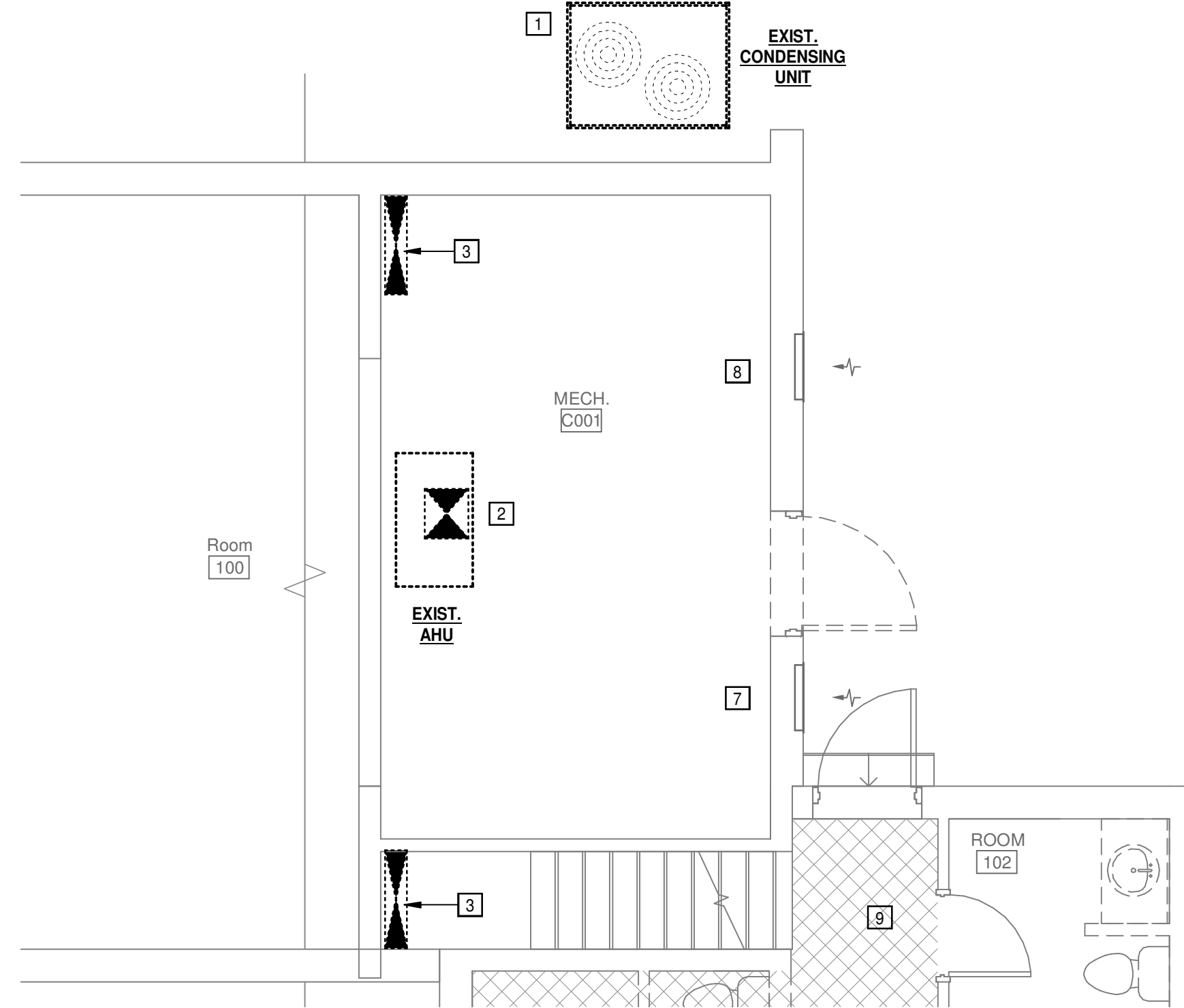
1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
2. ALL DARKER DASHED LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED.
3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

**HVAC DEMOLITION KEYED NOTES - M0.01**

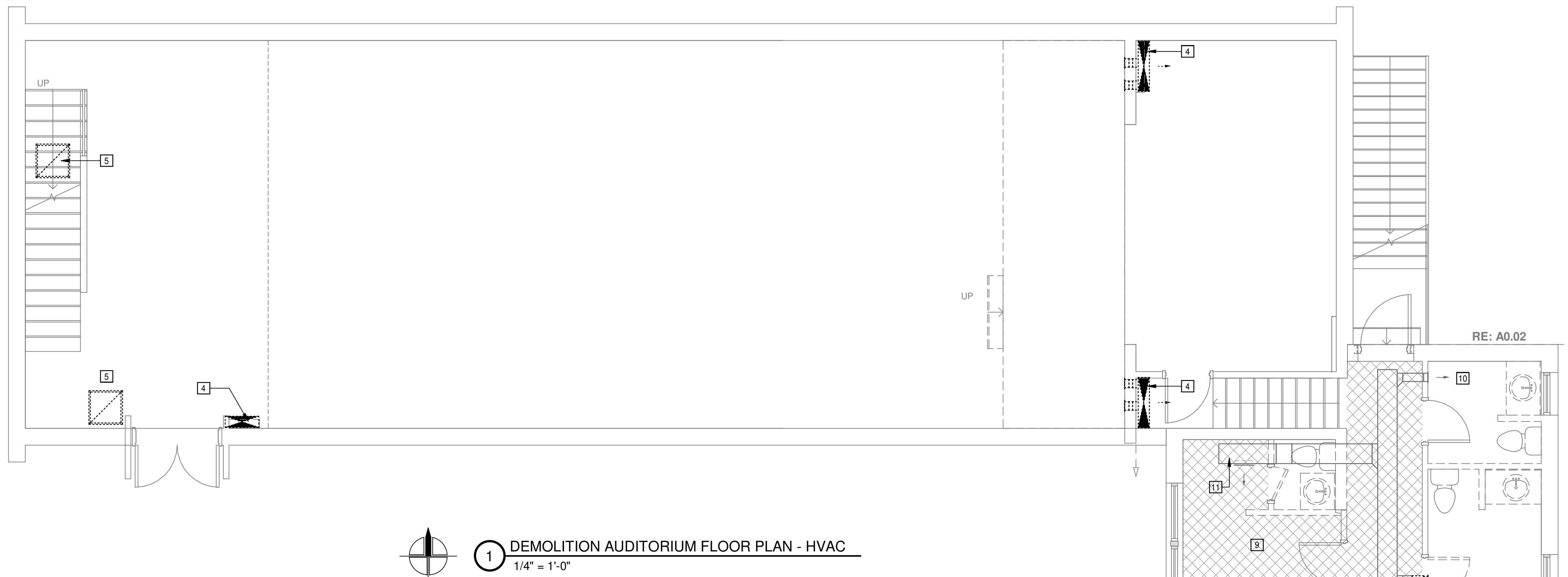
- 1 EXISTING OUTDOOR CONDENSING UNIT AND ALL ASSOCIATED PIPING / CONTROL DEVICES TO BE DEMOLISHED. INFILL EXISTING OPENINGS IN WALLS ASSOCIATED W/ PIPING, CONDUIT, ETC. CONTRACTOR TO FIELD VERIFY ALL PENETRATIONS.
- 2 EXISTING TWINNED INDOOR FURNACE AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROL DEVICES TO BE REMOVED. SEE PLUMBING SHEETS FOR DETAILS ON DEMOLISHING THE NATURAL GAS PIPING.
- 3 EXISTING SUPPLY AIR DUCTWORK TO BE DEMOLISHED. EXISTING FLOOR PENETRATION TO REMAIN AND BE RE-USED. SEE DETAIL 1, SHEET M1.01.
- 4 EXISTING SUPPLY AIR DUCTWORK AND ALL ASSOCIATED AIR DEVICES SERVING AUDITORIUM TO BE REMOVED.
- 5 EXISTING RETURN AIR GRATE TO BE REMOVED. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT ON DETAILS OF INFILL.
- 6 EXISTING SUPPLY AIR DUCTWORK AND AIR DEVICES SERVING AUDITORIUM MEZZANINE TO BE DEMOLISHED.
- 7 EXISTING LOUVER TO REMAIN AND BE RE-USED. SEE DETAIL 1, SHEET M1.01.
- 8 EXISTING LOUVER TO REMAIN BUT NOT TO BE RE-USED. CAP, SEAL, AND INSULATE EXISTING OPENING. MECHANICAL CONTRACTOR TO COORDINATE DETAILS OF INFILL.
- 9 AREA CROSS HATCHED ON FLOOR PLANS NOT IN MECHANICAL SCOPE.
- 10 EXISTING AIR DEVICE TO REMAIN.
- 11 EXISTING SUPPLY AIR DUCT TO REMAIN.



2 DEMOLITION MEZZANINE PLAN - HVAC  
1/4" = 1'-0"



3 DEMOLITION MECH. BASEMENT FLOOR PLAN - HVAC  
1/4" = 1'-0"



1 DEMOLITION AUDITORIUM FLOOR PLAN - HVAC  
1/4" = 1'-0"

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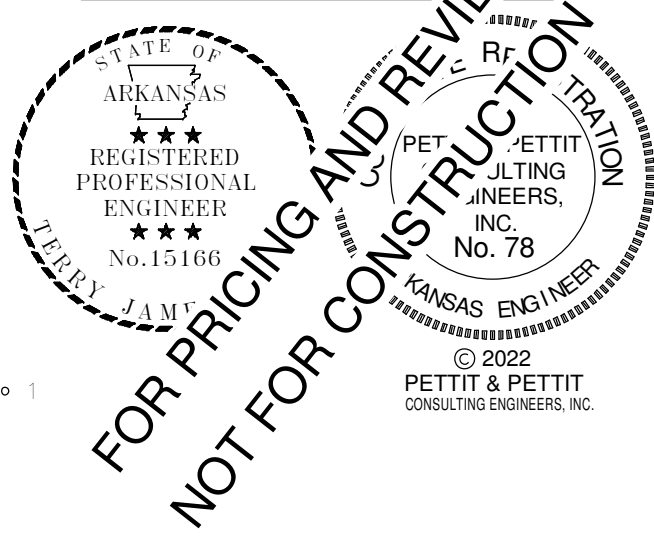
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DEMOLITION FLOOR  
PLANS - HVAC

**M0.01**

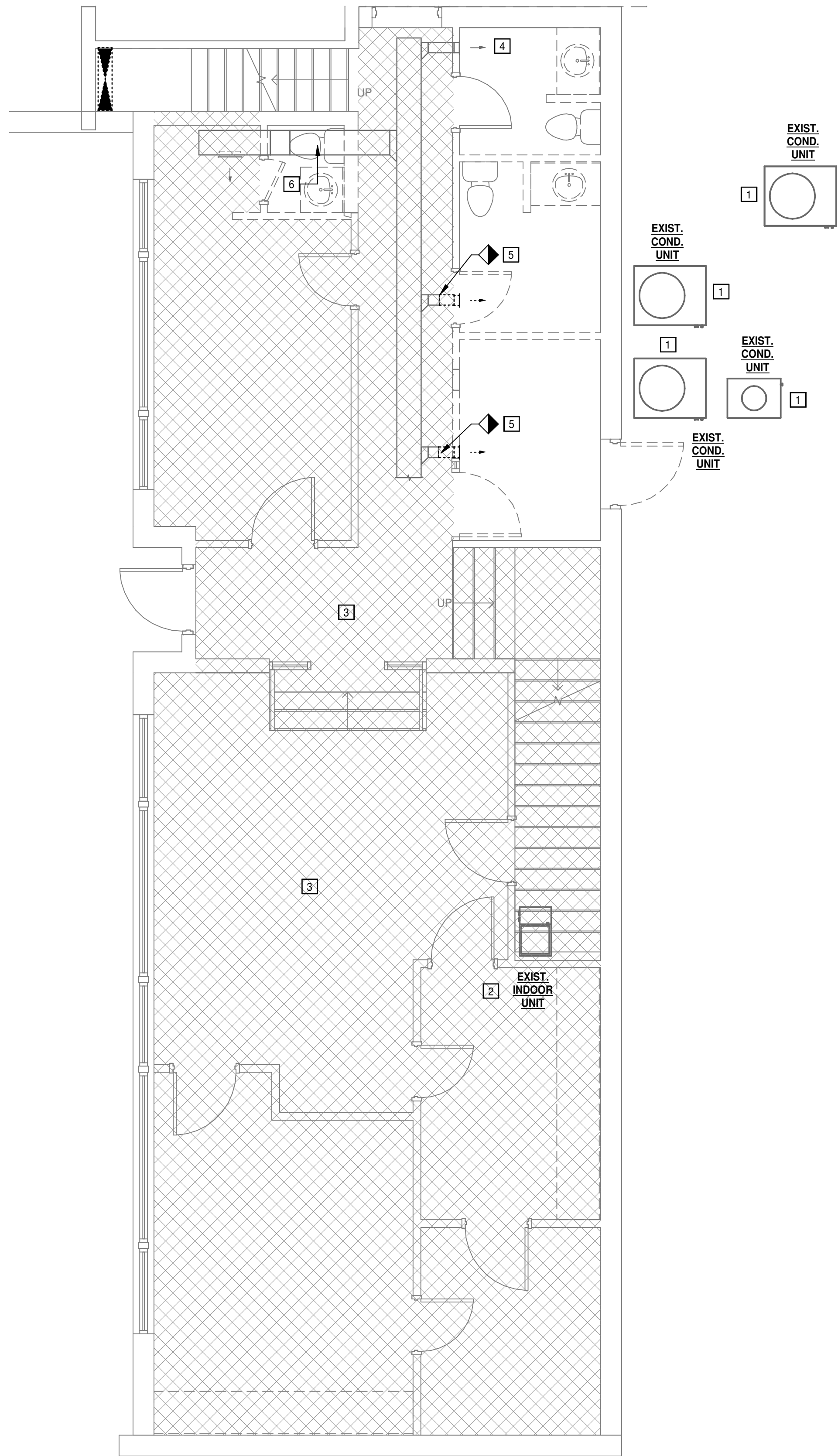


**HVAC GENERAL DEMOLITION NOTES**

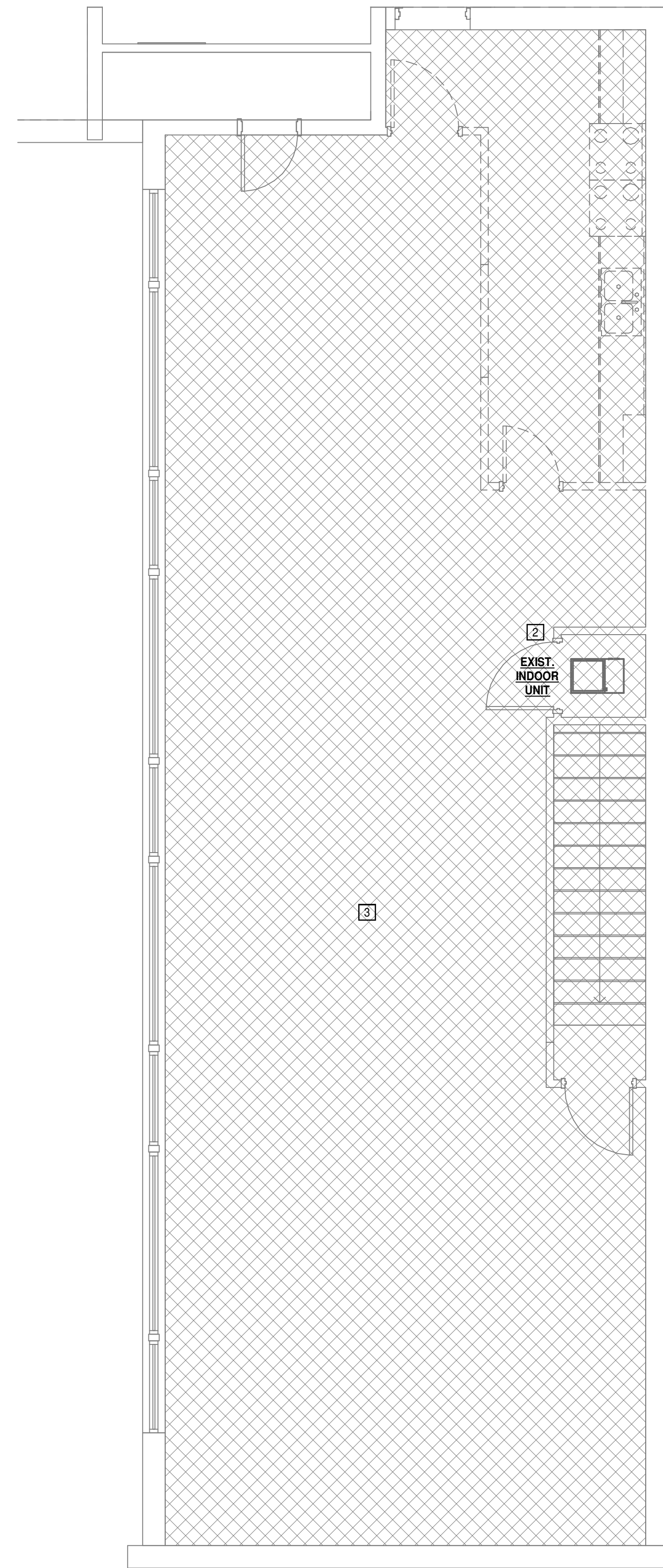
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3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.
4. SEE ARCHITECTURAL PLANS FOR REMOVAL AND REPLACEMENT OF CEILINGS.

**HVAC DEMOLITION KEYED NOTES - M0.02**

- 1 EXISTING OUTDOOR CONDENSING UNIT AND ALL ASSOCIATED PIPING / CONTROL DEVICES TO REMAIN.
- 2 EXISTING INDOOR FURNACE AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROL DEVICES TO REMAIN.
- 3 AREA CROSS HATCHED ON FLOOR PLANS NOT IN MECHANICAL SCOPE.
- 4 EXISTING AIR DEVICE TO REMAIN.
- 5 EXISTING AIR DEVICE TO BE DEMOLISHED. SUPPLY DUCT TO AIR DEVICE TO BE RE-USED.
- 6 EXISTING SUPPLY AIR DUCT TO REMAIN.



**1** DEMOLITION CLASSROOM WING FIRST FLOOR PLAN - HVAC  
1/4" = 1'-0"



**2** DEMOLITION CLASSROOM WING SECOND FLOOR PLAN - HVAC  
1/4" = 1'-0"

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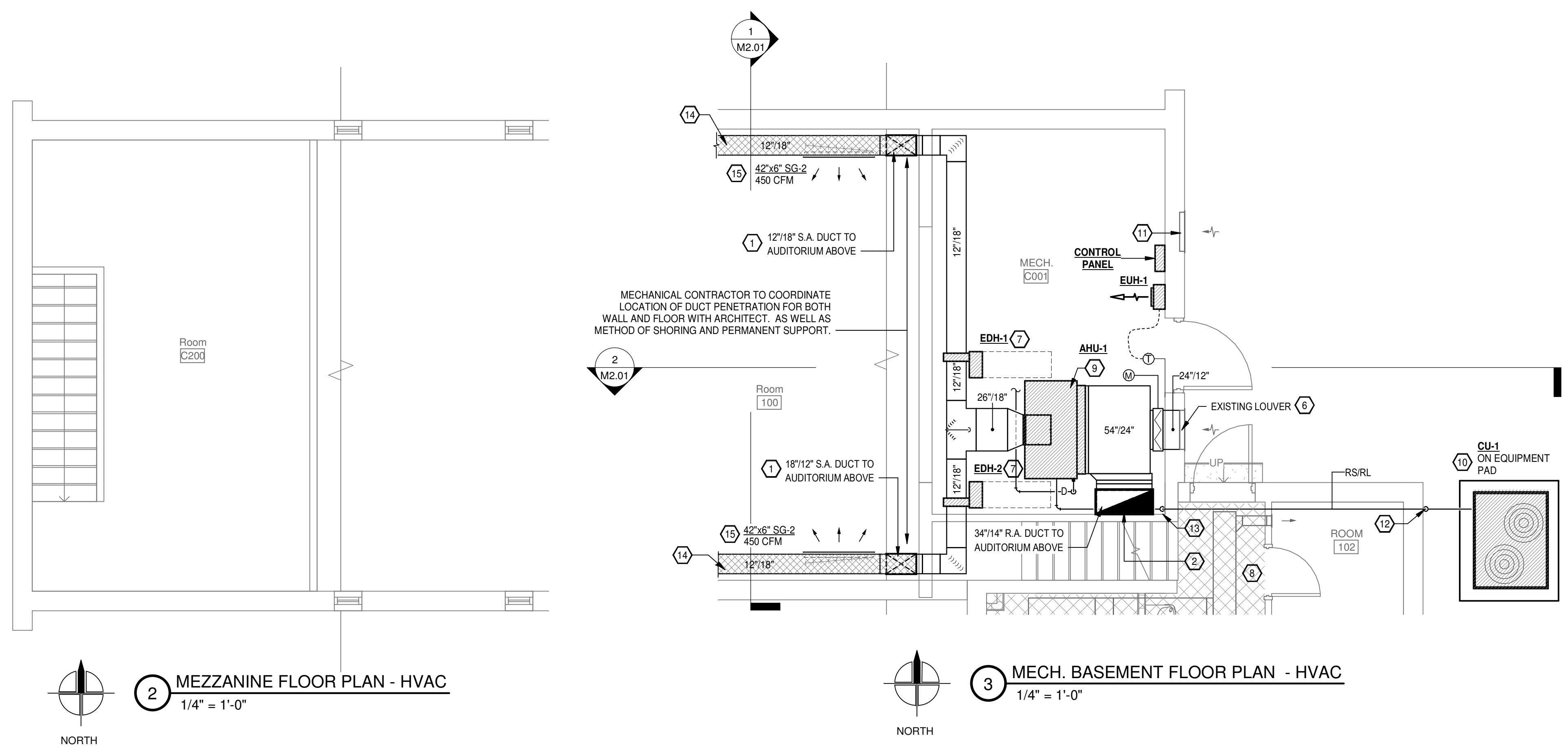
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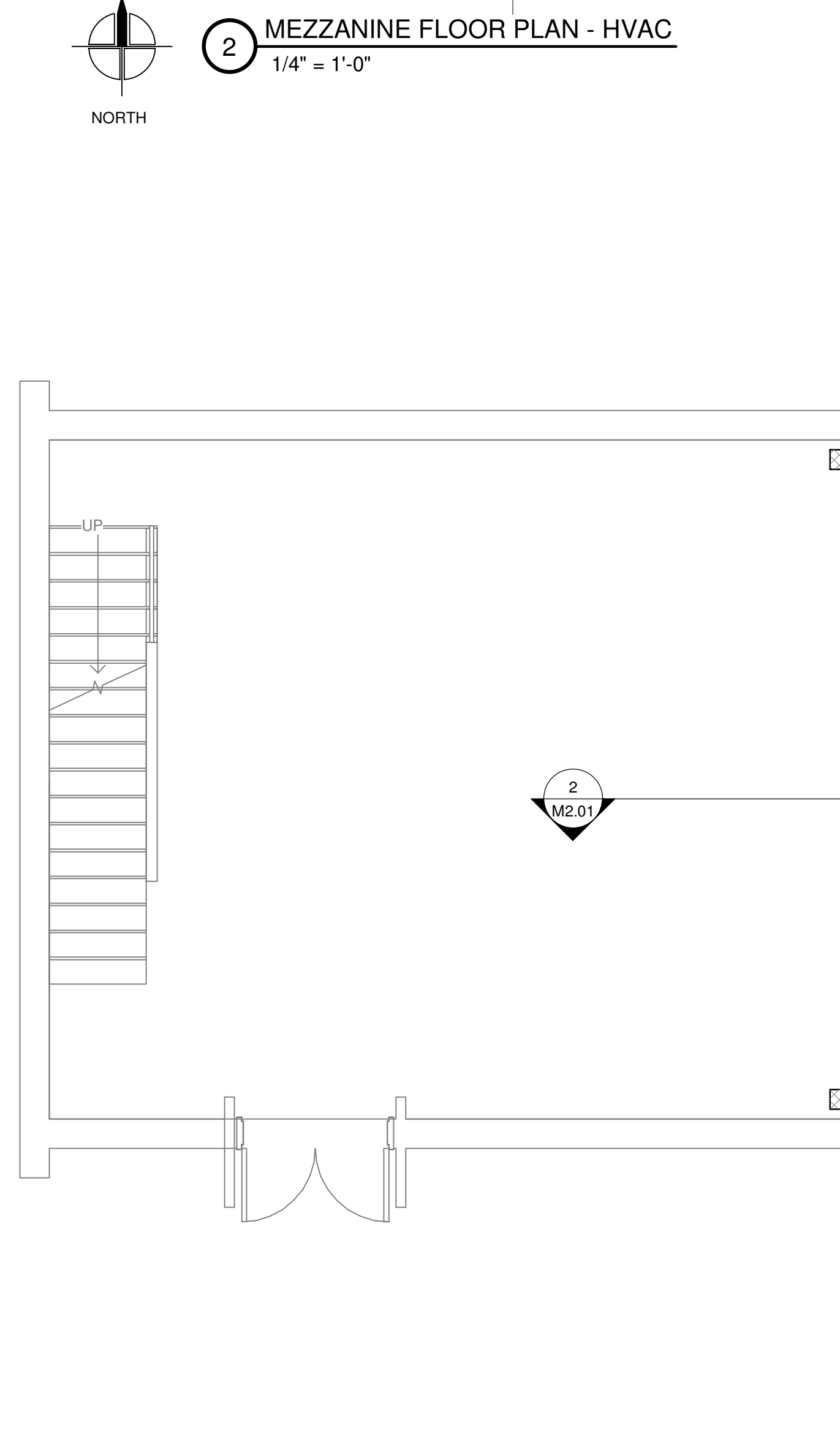
DEMOLITION FLOOR  
PLAN - HVAC

**M0.02**

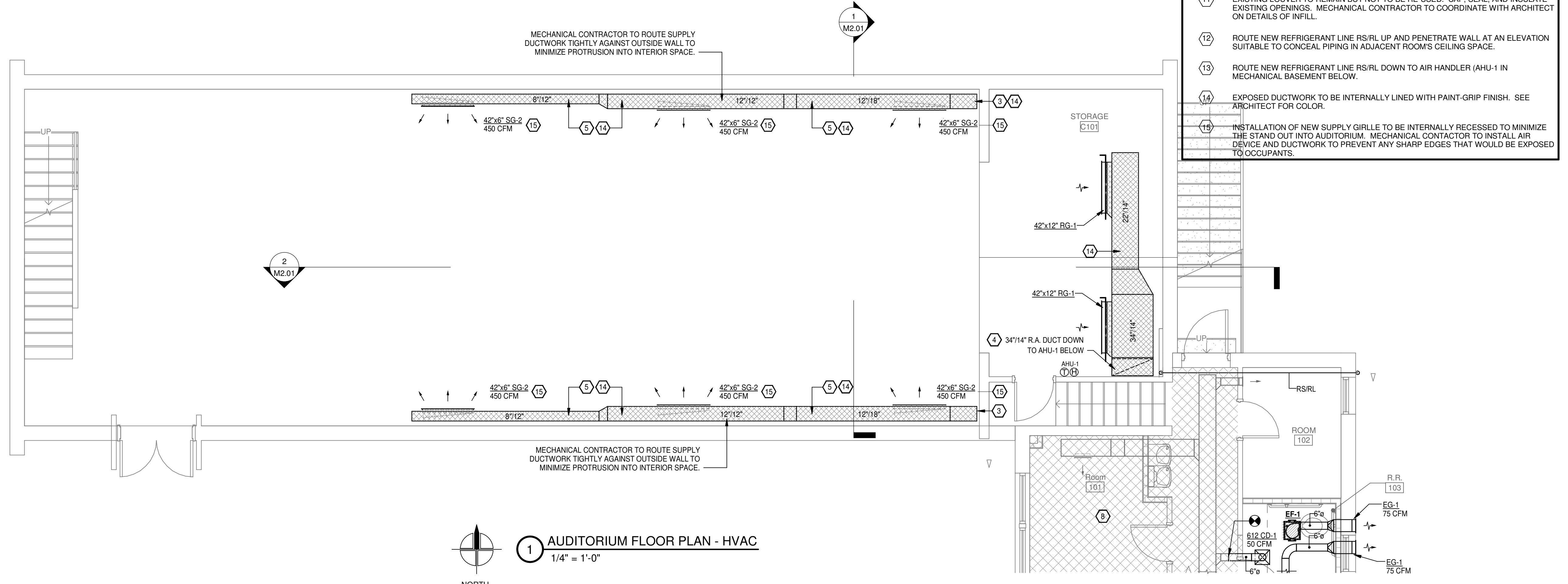
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3 MECH. BASEMENT FLOOR PLAN - HVAC  
1/4" = 1'-0"



2 MEZZANINE FLOOR PLAN - HVAC  
1/4" = 1'-0"



1 AUDITORIUM FLOOR PLAN - HVAC  
1/4" = 1'-0"

### HVAC GENERAL NOTES

1. ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN.
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3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

### HVAC KEYED NOTES - M1.01

1. ROUTE NEW 18"x12" SUPPLY AIR DUCT UP TO AUDITORIUM ABOVE. SAW CUT EXISTING FLOOR PENETRATIONS TO PROVIDE PATHWAY FOR NEW DUCT. PROVIDE GREENHECK MODEL #ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
2. ROUTE NEW 34"x14" RETURN AIR DUCT UP TO AUDITORIUM ABOVE. SAW CUT AS REQUIRED TO PROVIDE PATHWAY FOR NEW RETURN AIR DUCTWORK. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
3. ROUTE NEW 18"x12" SUPPLY AIR DUCT DOWN TO NEW AIR HANDLING UNIT (AHU-1) BELOW. SAW CUT EXISTING FLOOR PENETRATIONS TO PROVIDE PATHWAY FOR NEW DUCT. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
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5. ROUTE NEW SUPPLY AIR DUCT TIGHT TO STRUCTURE. SEE DETAIL 1, SHEET M1.01.
6. ROUTE NEW 24"x12" OUTSIDE AIR DUCT TO EXISTING LOUVER. PROVIDE MOTORIZED DAMPER FOR CONTROL OF OUTSIDE AIR.
7. NEC WORKING CLEARANCE FOR ELECTRIC DUCT HEATERS. COORDINATE CLEARANCES WITH ALL TRADES. MOUNT DUCT HEATERS (EDH-1 & EDH-2) A MINIMUM OF 24" FROM DUCT TRANSITION.
8. AREA CROSS HATCHED ON FLOOR PLANS NOT IN MECHANICAL SCOPE.
9. INSTALL NEW AIR HANDLER (AHU-1) IN EXISTING MECHANICAL BASEMENT ON NEW 4" HOUSE KEEPING PAD. CONTRACTOR TO COORDINATE NEW INSTALLATION IN EXISTING SPACE WITH ALL TRADES WHILE FOLLOWING MANUFACTURER'S SPECIFICATION. MECHANICAL CONTRACTOR TO ROUTE NEW REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT (RC-1) TO AIR HANDLER (AHU-1) FOLLOWING THE MANUFACTURER'S INSTRUCTION CLOESLY. IF AT ANY POINT THE ROUTING OF PIPING DIFFERS FROM WHAT IS SHOWN ON THIS SHEET, PLEASE CONSULT WITH ENGINEER FOR APPROVAL.
10. INSTALL NEW OUTDOOR CONDENSING UNIT (CU-1) ON NEW EQUIPMENT PAD. MECHANICAL CONTRACTOR TO COORDINATE NEW INSTALLATION WITH ALL TRADES WHILE FOLLOWING MANUFACTURER'S SPECIFICATIONS. MECHANICAL CONTRACTOR TO ROUTE NEW REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT (CU-1) TO AIR HANDLER (AHU-1) FOLLOWING THE MANUFACTURER'S INSTRUCTION CLOESLY. IF AT ANY POINT THE ROUTING OF PIPING DIFFERS FROM WHAT IS SHOWN ON THIS SHEET, PLEASE CONSULT WITH ENGINEER FOR APPROVAL.
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12. ROUTE NEW REFRIGERANT LINE RS/RL UP AND PENETRATE WALL AT AN ELEVATION SUITABLE TO CONCEAL PIPING IN ADJACENT ROOM'S CEILING SPACE.
13. ROUTE NEW REFRIGERANT LINE RS/RL DOWN TO AIR HANDLER (AHU-1) IN MECHANICAL BASEMENT BELOW.
14. EXPOSED DUCTWORK TO BE INTERNALLY LINED WITH PAINT-GRIP FINISH. SEE ARCHITECT FOR COLOR.
15. INSTALLATION OF NEW SUPPLY GIRLLE TO BE INTERNALLY RECESSED TO MINIMIZE THE STAND OUT INTO AUDITORIUM. MECHANICAL CONTRACTOR TO INSTALL AIR DEVICE AND DUCTWORK TO PREVENT ANY SHARP EDGES THAT WOULD BE EXPOSED TO OCCUPANTS.

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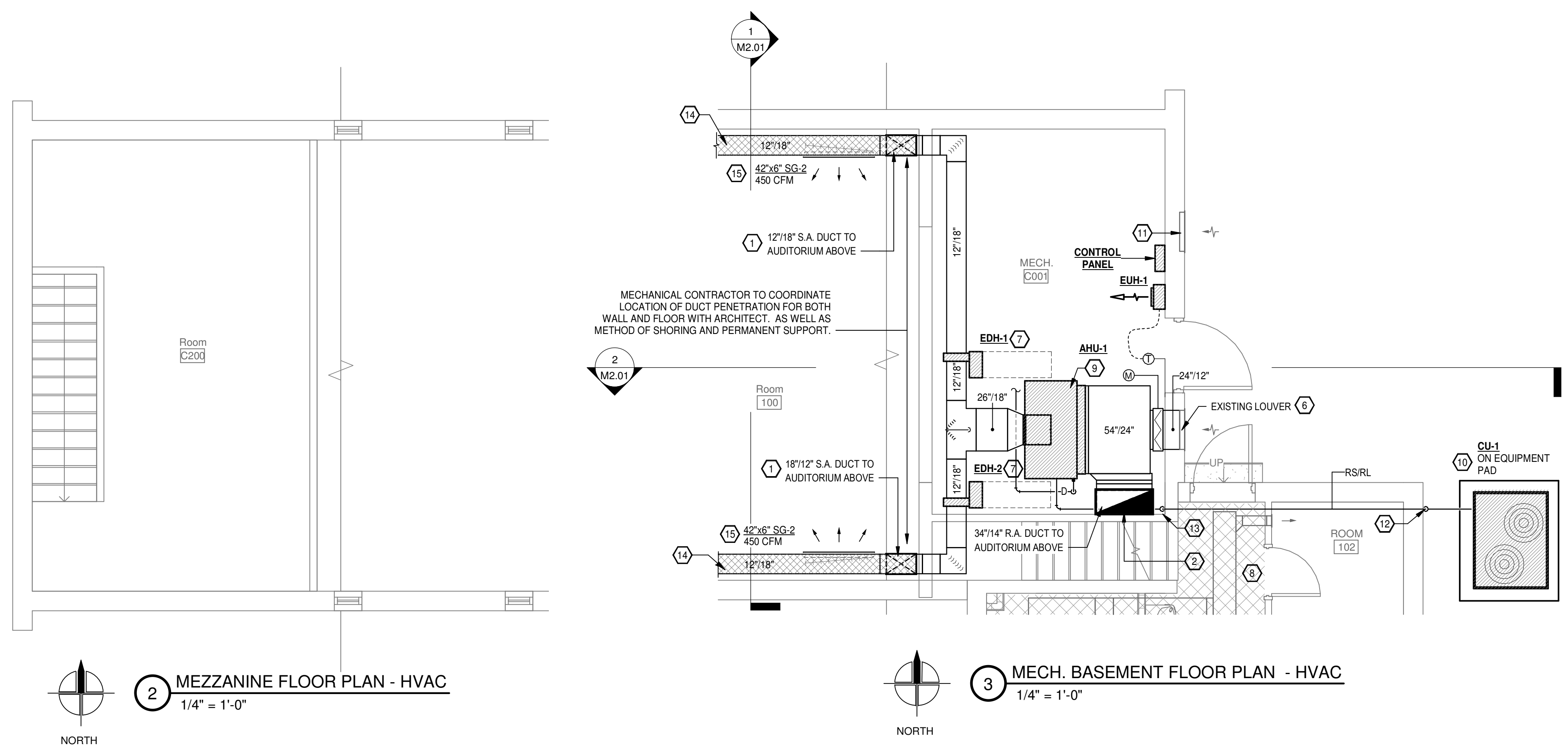
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PROJECT NO. 21085  
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AUDITORIUM FLOOR PLANS - HVAC

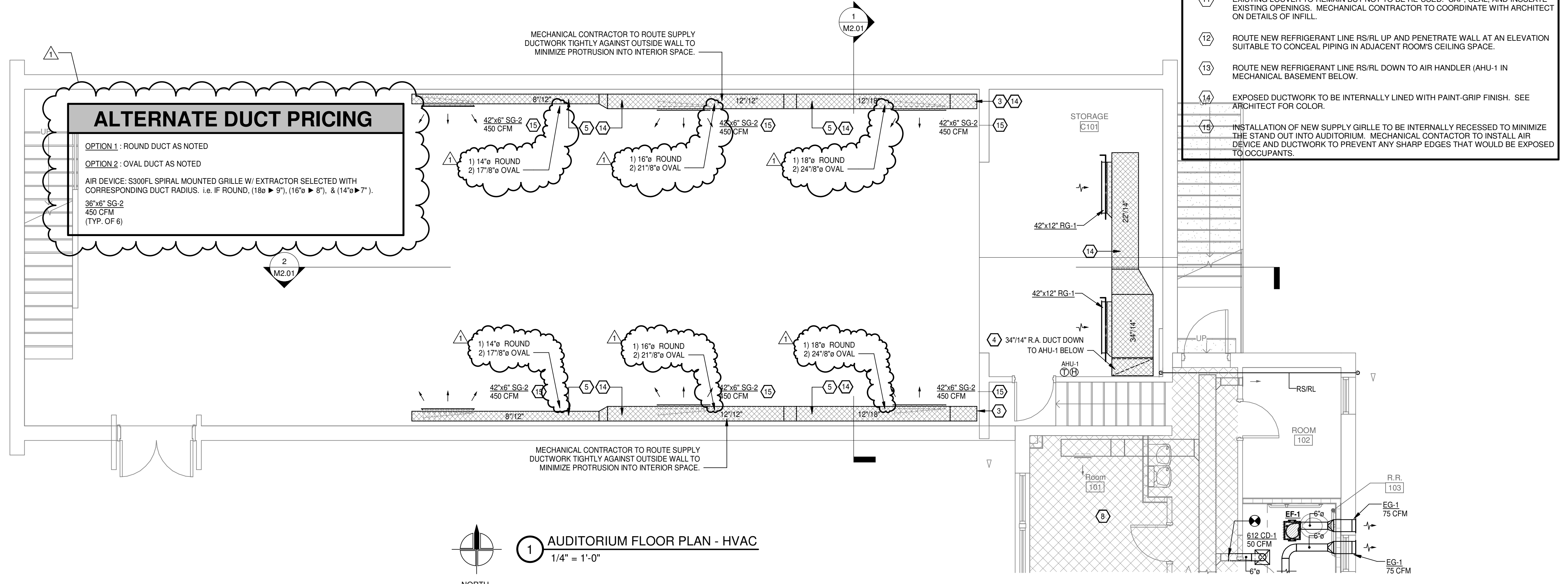
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**2** MEZZANINE FLOOR PLAN - HVAC  
1/4" = 1'-0"

**3** MECH. BASEMENT FLOOR PLAN - HVAC  
1/4" = 1'-0"



**1** AUDITORIUM FLOOR PLAN - HVAC  
1/4" = 1'-0"

**ALTERNATE DUCT PRICING**

OPTION 1 : ROUND DUCT AS NOTED  
OPTION 2 : OVAL DUCT AS NOTED

AIR DEVICE: S300FL SPIRAL MOUNTED GRILLE W/ EXTRACTOR SELECTED WITH CORRESPONDING DUCT RADIUS. I.E. IF ROUND, (18" ▶ 9"), (16" ▶ 8"), & (14" ▶ 7").

36"x6" SG-2  
450 CFM  
(TYP. OF 6)

**HVAC GENERAL NOTES**

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3. FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN THAT ARE TO BE CONNECTED TO.

**HVAC KEYED NOTES - M1.01**

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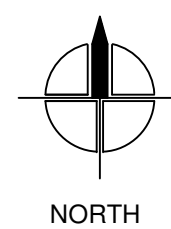
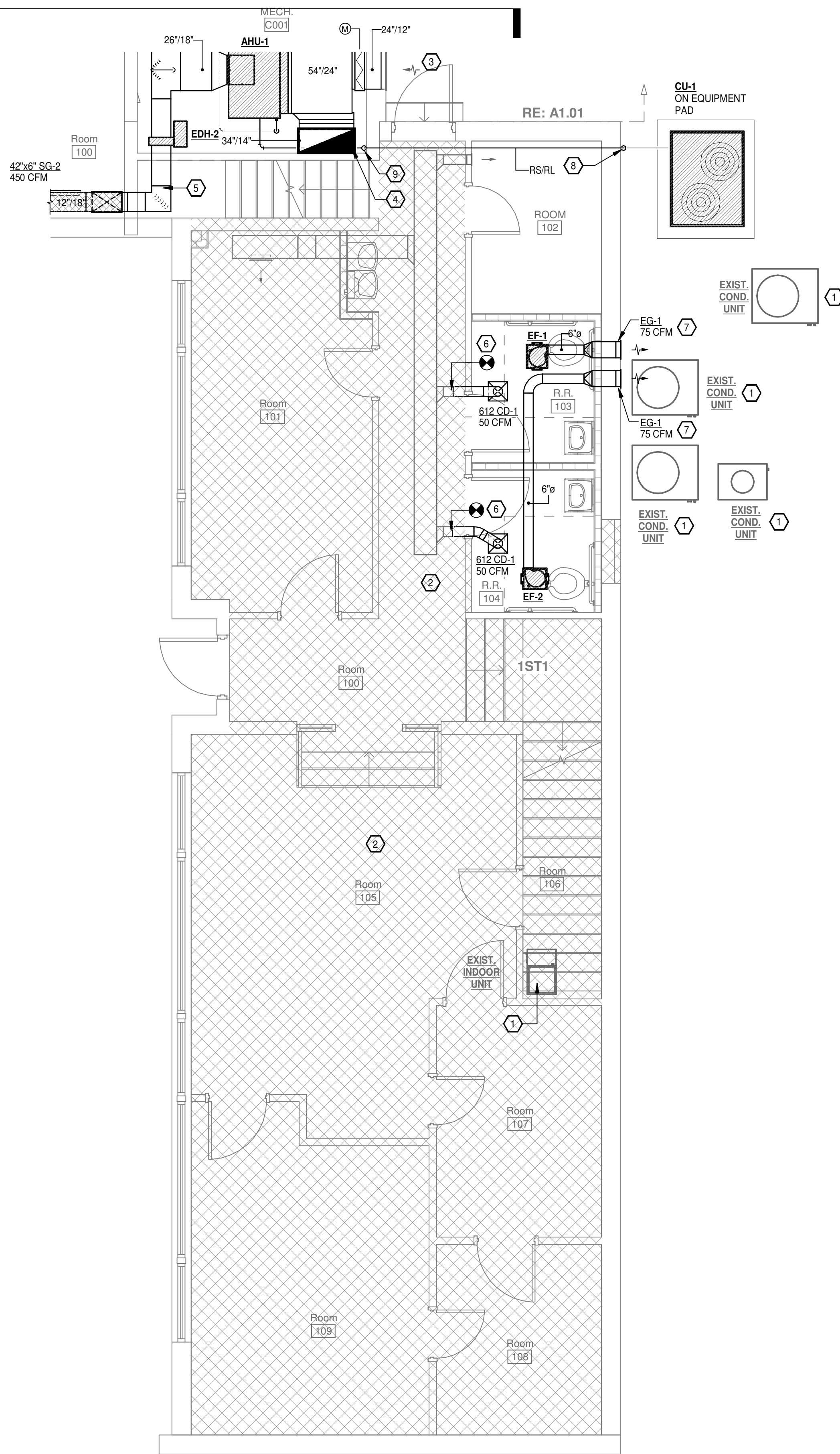
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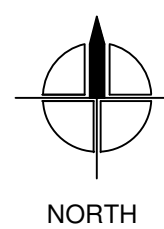
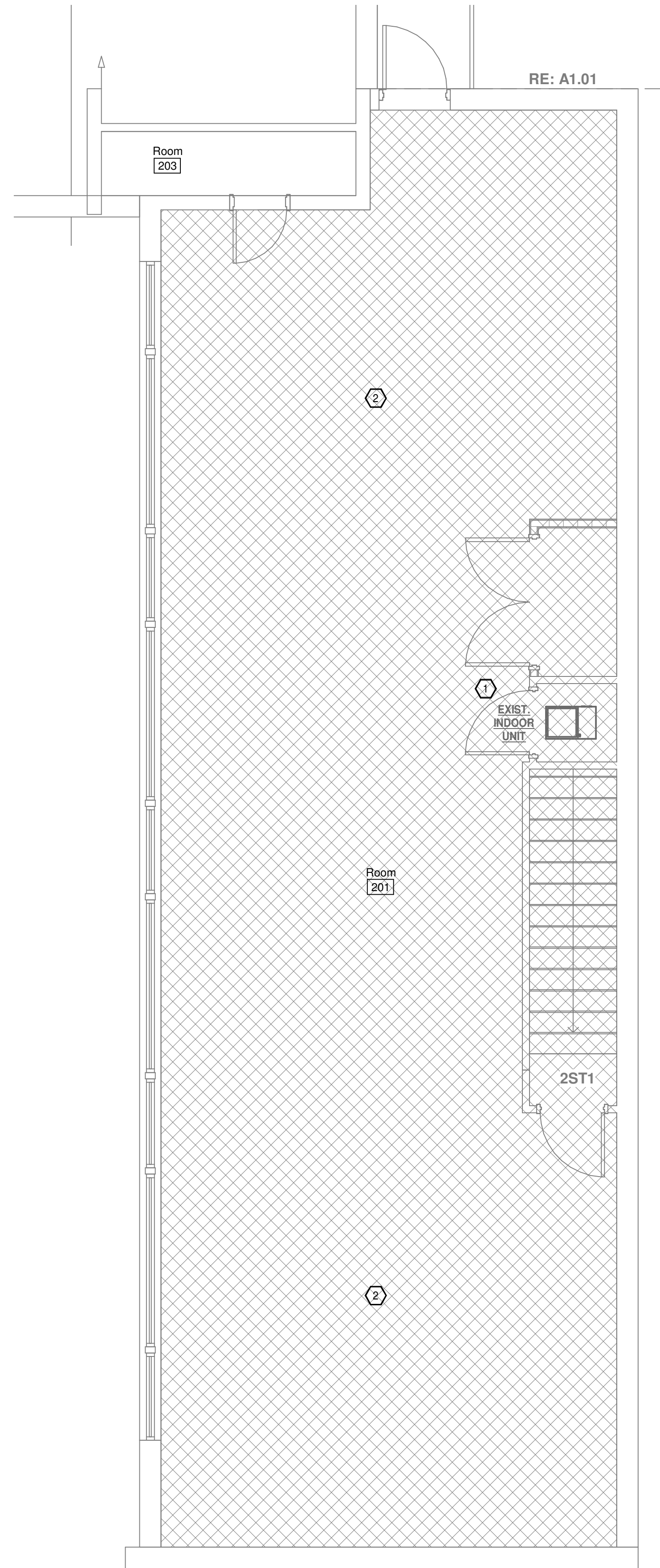
AUDITORIUM FLOOR PLANS - HVAC

**M1.01**

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1 CLASSROOM WING FIRST FLOOR PLAN - HVAC  
1/4" = 1'-0"



2 CLASSROOM WING SECOND FLOOR PLAN - HVAC  
1/4" = 1'-0"

### HVAC GENERAL NOTES

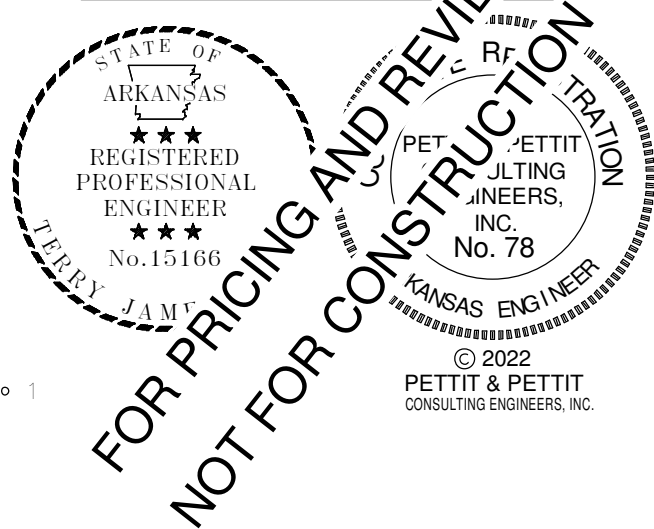
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### HVAC KEYED NOTES - M1.02

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
2. AREA CROSS HATCHED ON FLOOR PLANS NOT IN MECHANICAL SCOPE.
3. EXISTING OUTSIDE AIR LOUVER TO REMAIN AND TO BE RE-USED.
4. ROUTE NEW 34"X14" RETURN AIR DUCT UP TO AUDITORIUM ABOVE. SAW CUT AS REQUIRED TO PROVIDE PATHWAY OF NEW RETURN AIR DUCTWORK. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
5. ROUTE NEW 18"X12" SUPPLY AIR DUCT UP IN EXISTING FLOOR PENETRATIONS TO AUDITORIUM ABOVE. SAW CUT EXISTING FLOOR PENETRATIONS TO ENLARGE AS REQUIRED. PROVIDE GREENHECK MODEL #ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR PENETRATIONS.
6. INSTALL NEW SUPPLY AIR DEVICE IN RESTROOM (RR 103 & 104). ROUTE NEW 6" DIA. DUCT TO EXISTING SUPPLY AIR DUCT AS SHOWN. COORDINATE ROUTING OF DUCT WITH EXISTING SUPPLY AIR BRANCH.
7. INSTALL NEW EXHAUST FANS IN RESTROOMS (RR 103 & 104). ROUTE NEW 6" DIA. EXHAUST DUCT TO EXTERIOR WALL AS SHOWN. PROVIDE MANUFACTURER'S APPROVED AIR DEVICE AT TERMINATION. CONTRACTOR TO COORDINATE COLOR OF AIR DEVICE WITH ARCHITECT.
8. ROUTE NEW REFRIGERANT LINE RS/RL UP AND PENETRATE WALL AT AN ELEVATION SUITABLE TO CONCEAL PIPING IN ADJACENT ROOM'S CEILING SPACE.
9. ROUTE NEW REFRIGERANT LINE RS/RL DOWN TO AIR HANDLER (AHU-1) IN MECHANICAL BASEMENT BELOW.

**SCM**  
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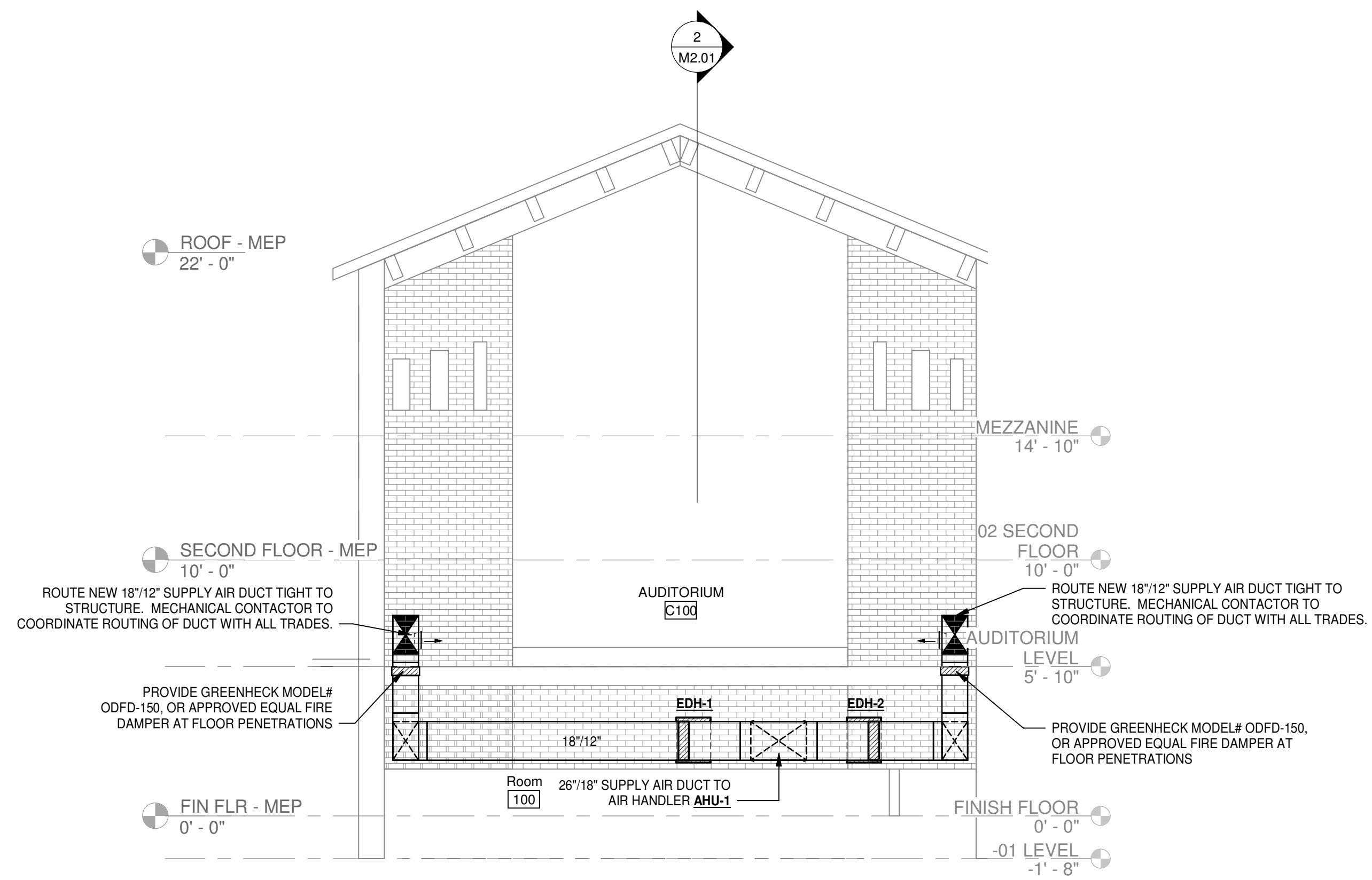
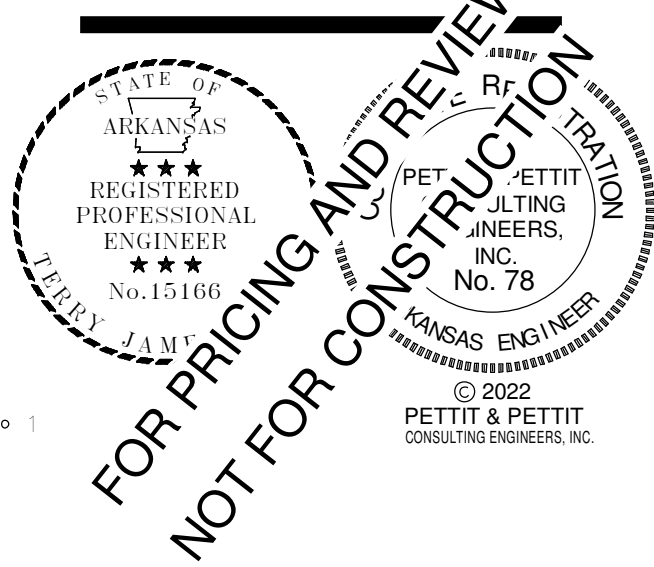
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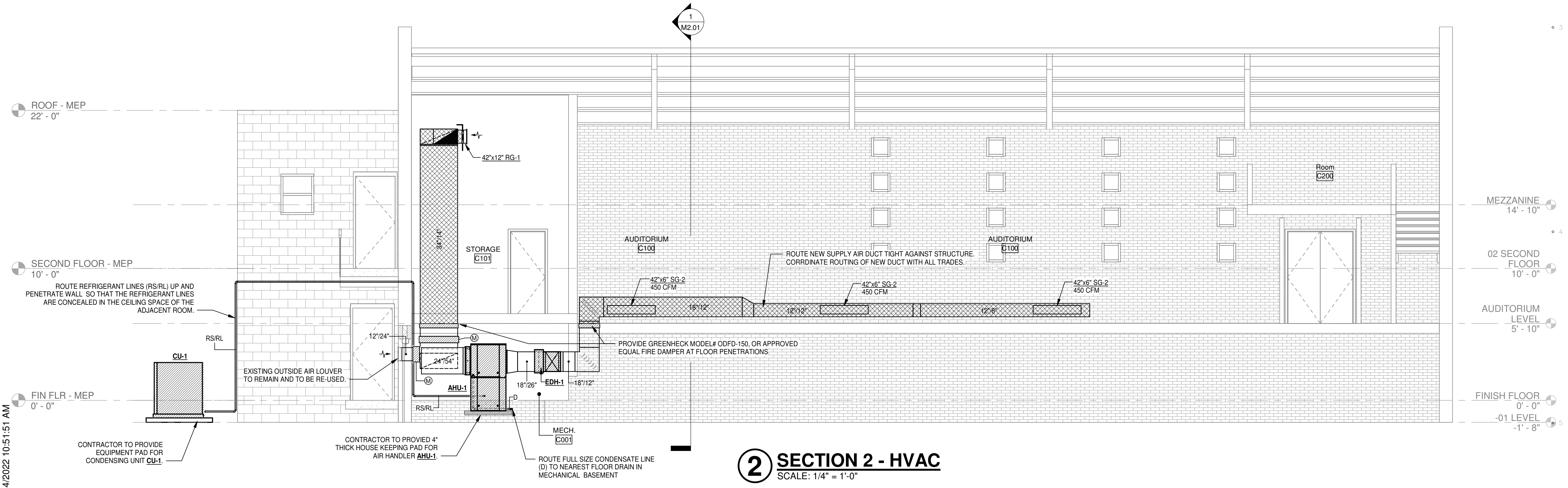
CLASSROOM WING  
FLOOR PLAN - HVAC

M1.02

SCM ARCHITECTS P.L.L.C.



**1 SECTION 1 - HVAC**  
SCALE: 1/4" = 1'-0"



**2 SECTION 2 - HVAC**  
SCALE: 1/4" = 1'-0"

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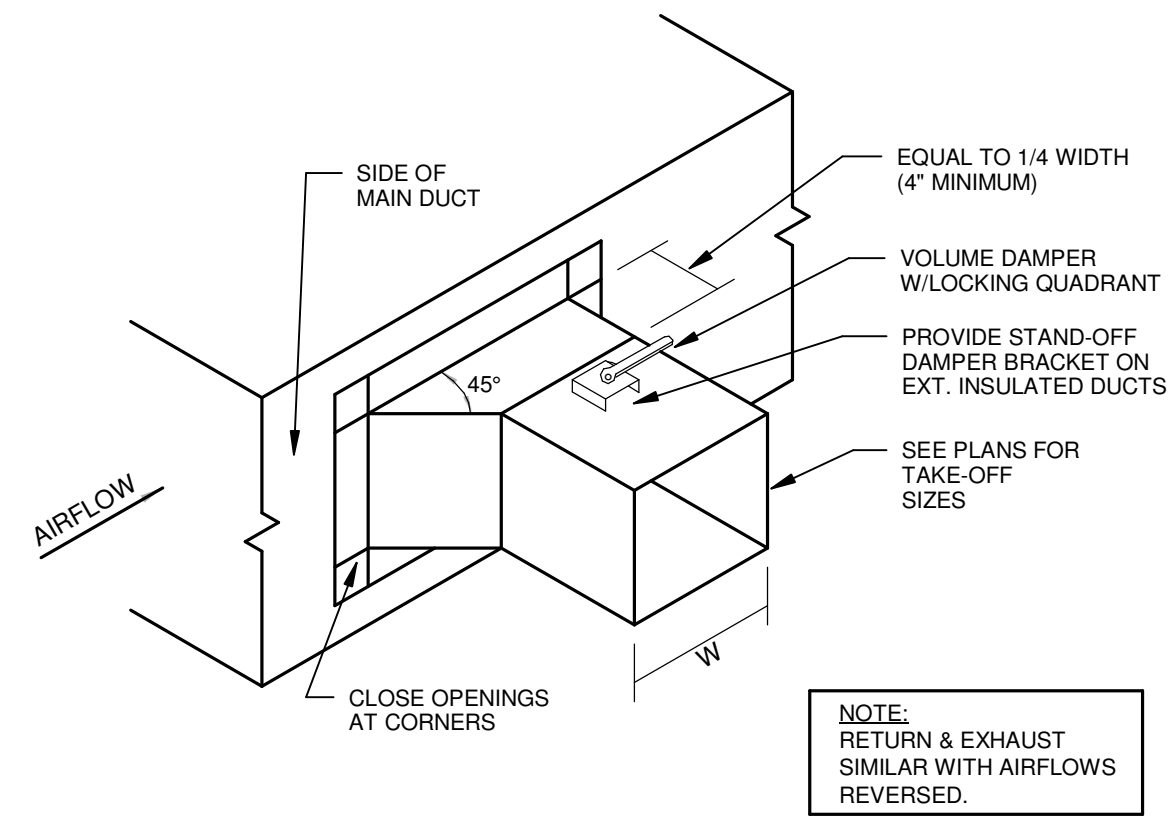
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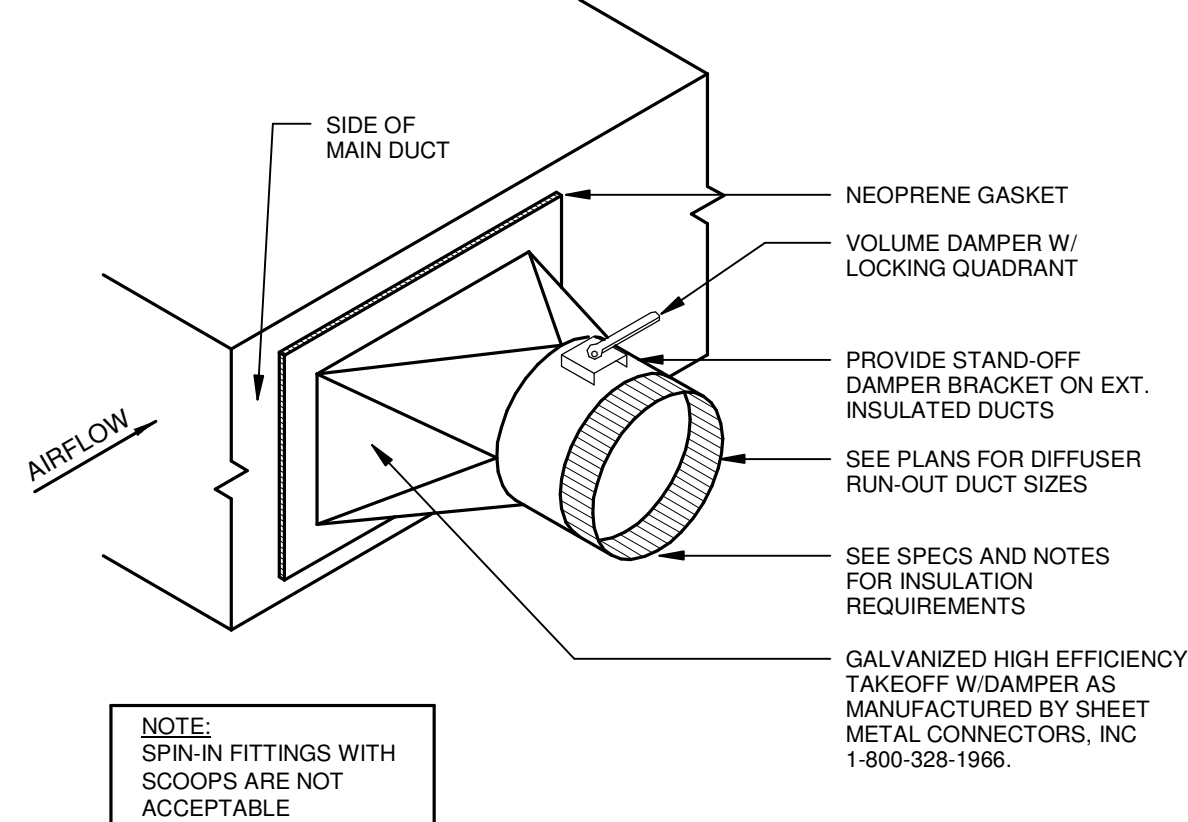
HVAC SECTIONS

**M2.01**

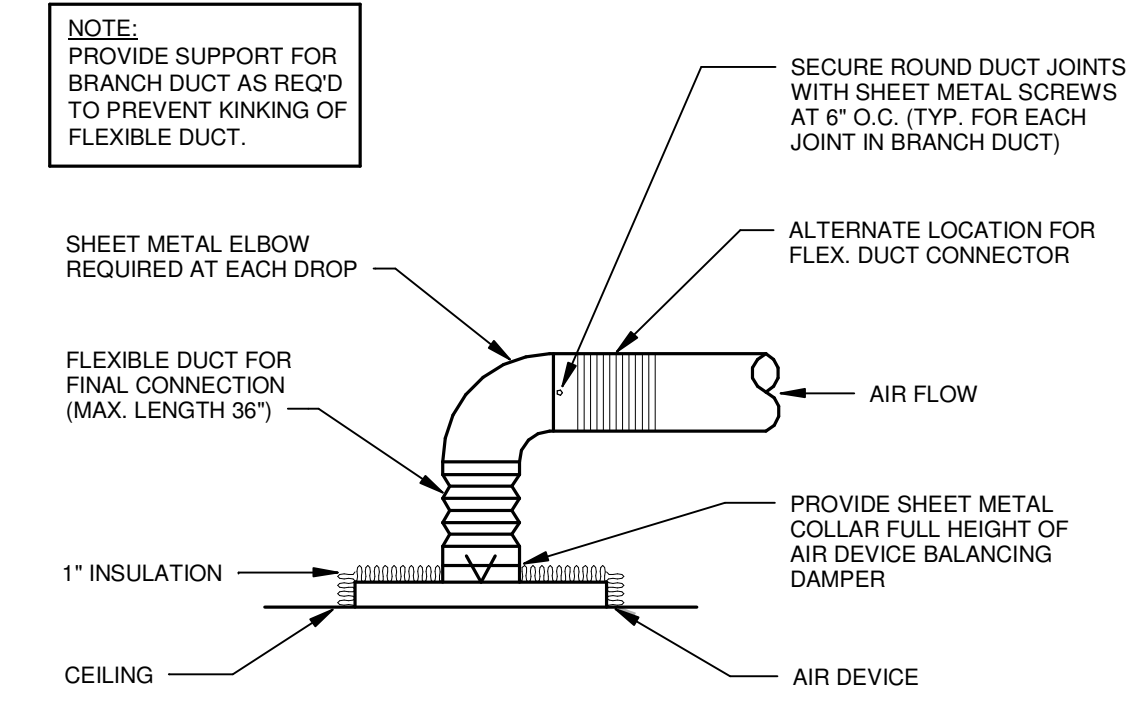
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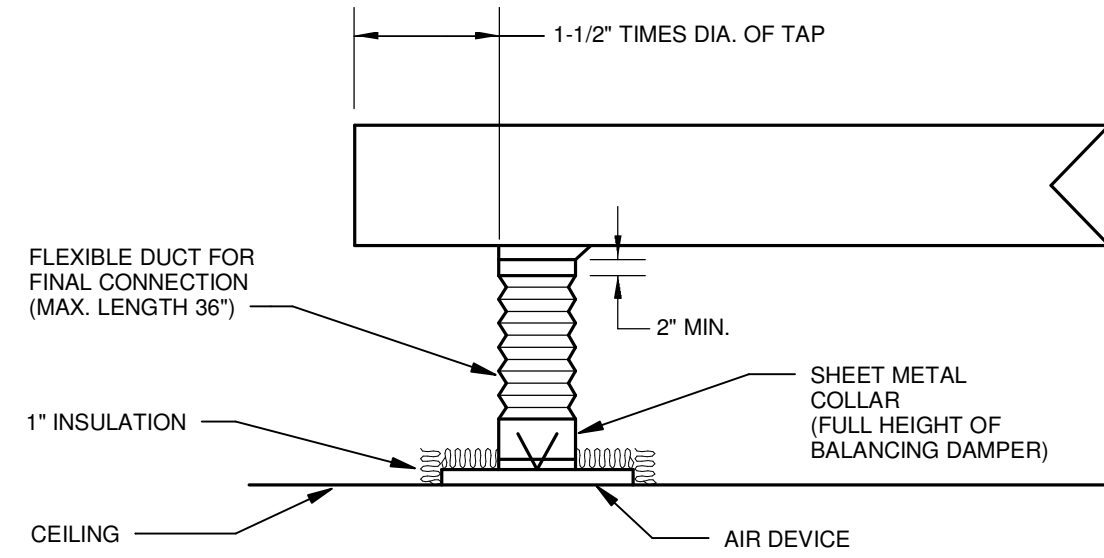
**1** BRANCH DUCT TAKE-OFF DETAIL  
N.T.S.



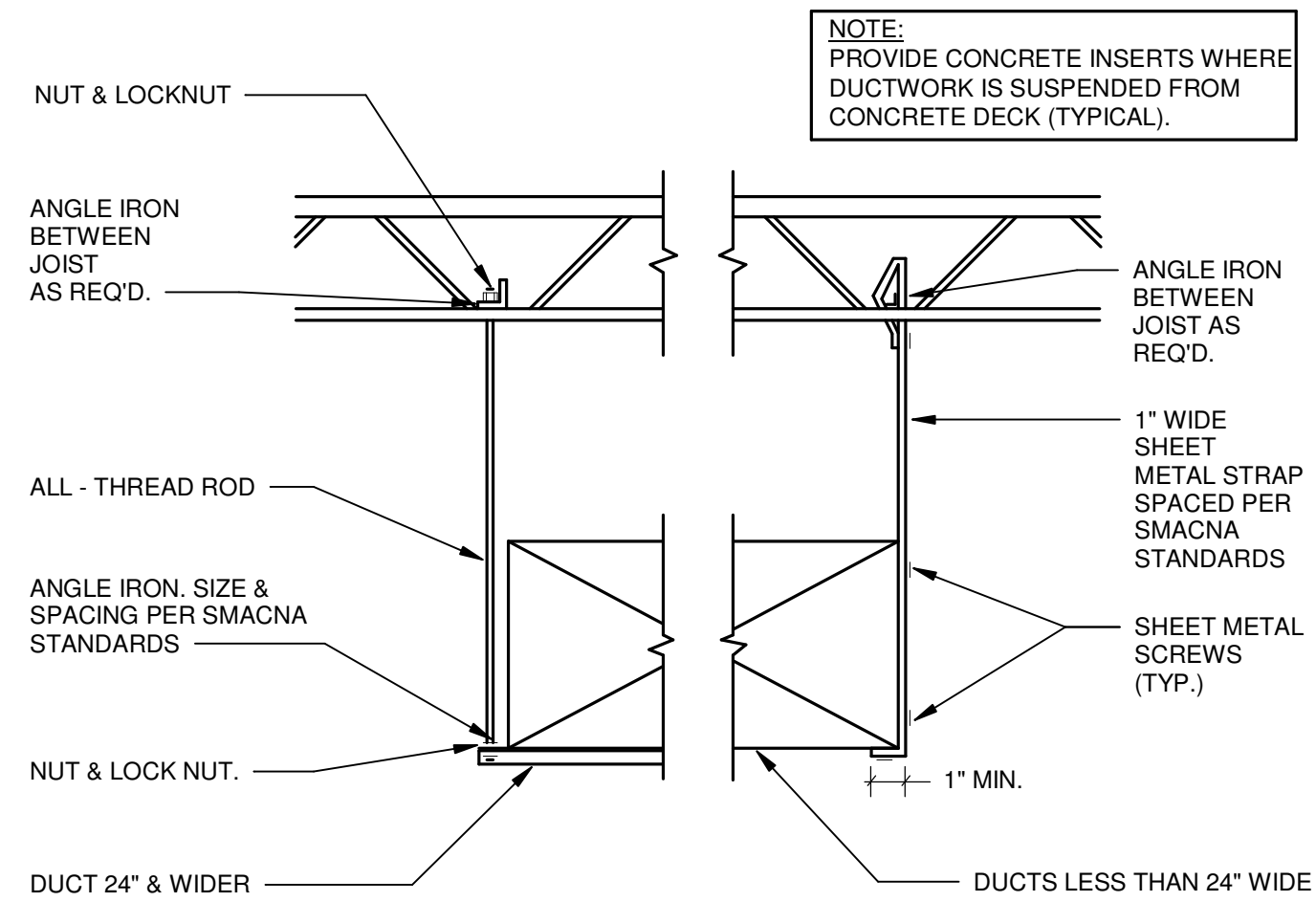
**2** BRANCH DUCT TAKE-OFF DETAIL  
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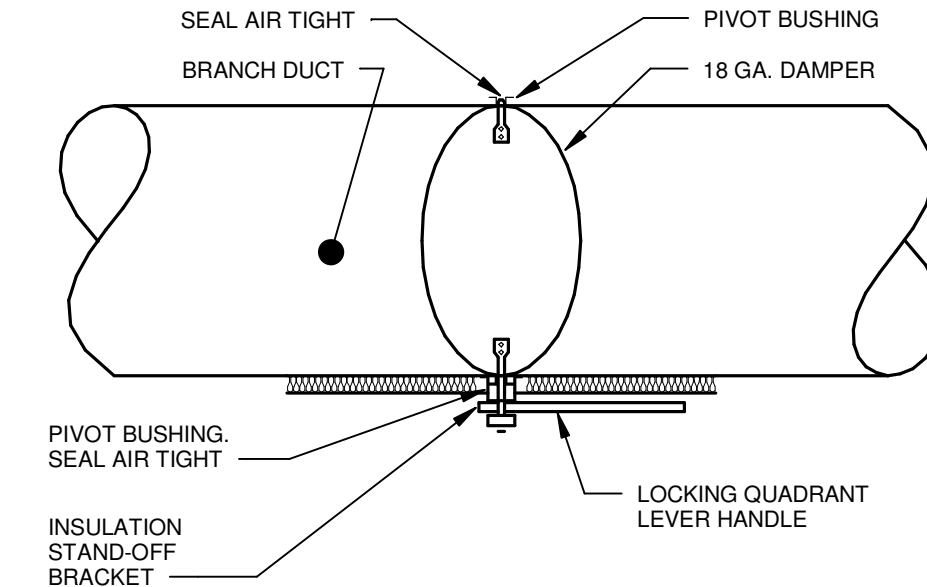
**3** DIFFUSER CONNECTION DETAIL  
N.T.S.



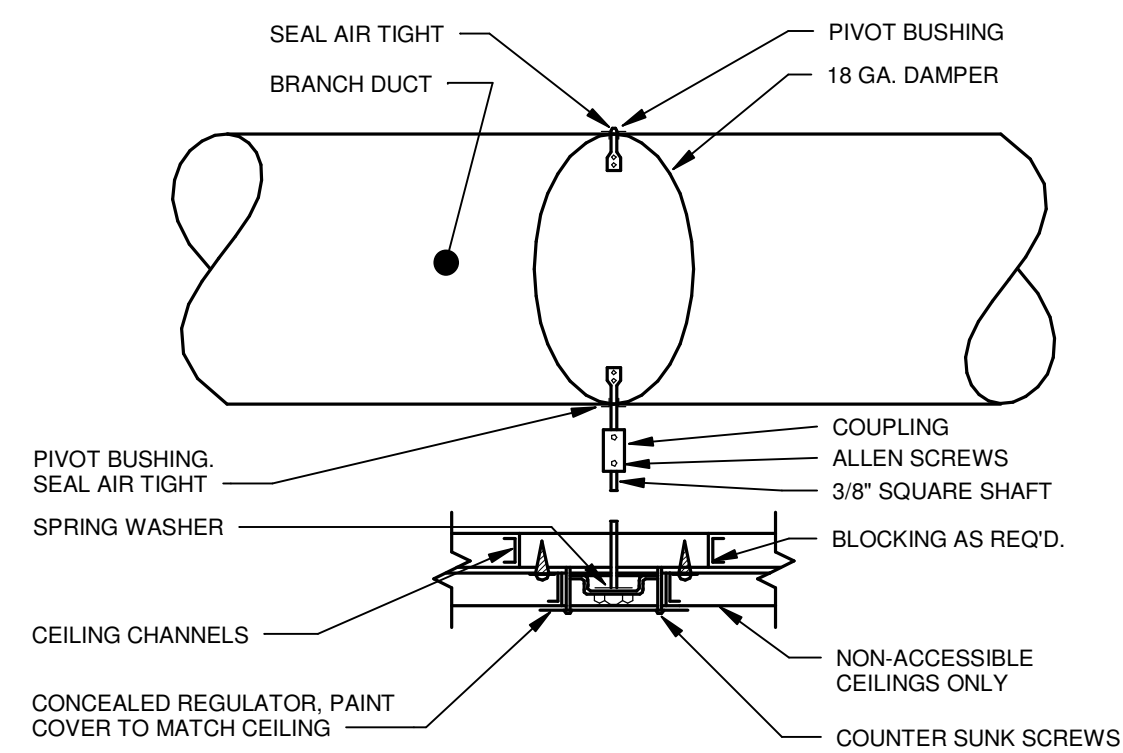
**4** DIFFUSER CONNECTION  
END OF TRUNK DUCT  
N.T.S.



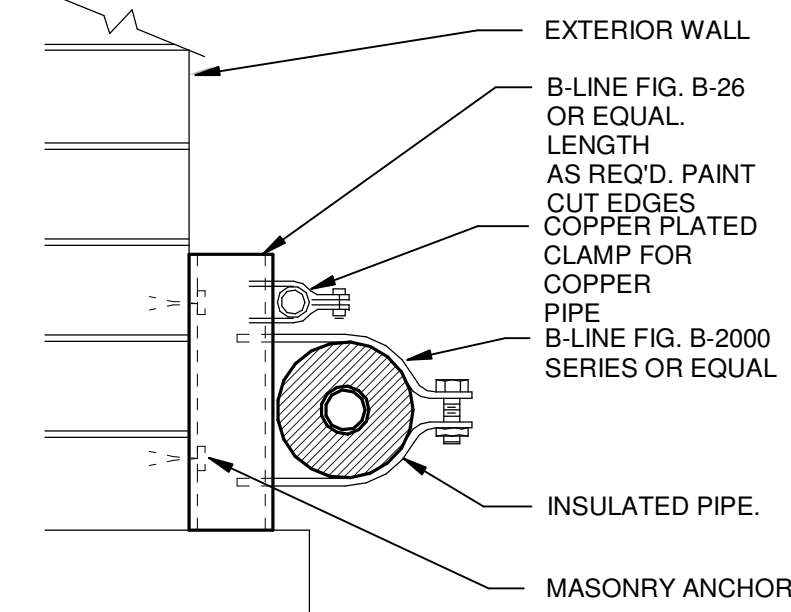
**5** DUCT SUPPORT DETAIL  
N.T.S.



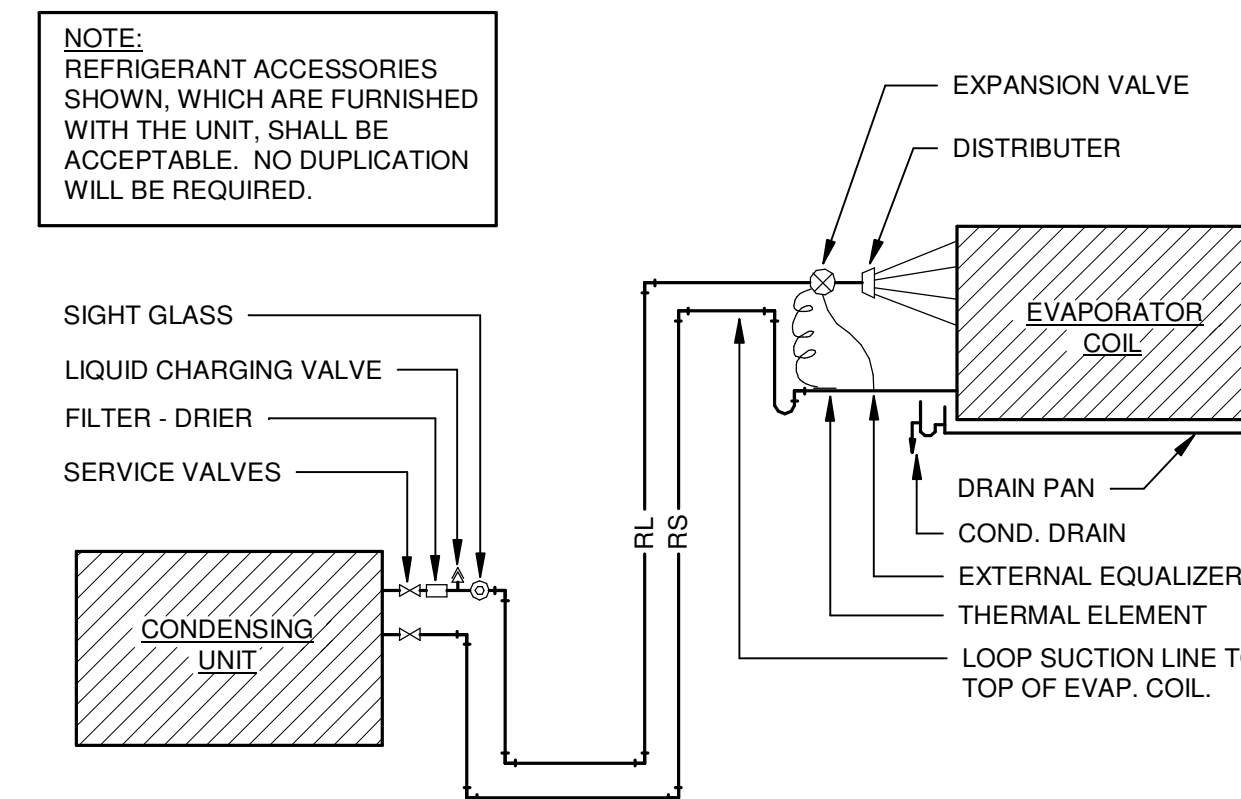
**6** MANUAL DAMPER  
OPERATOR DETAIL  
N.T.S.



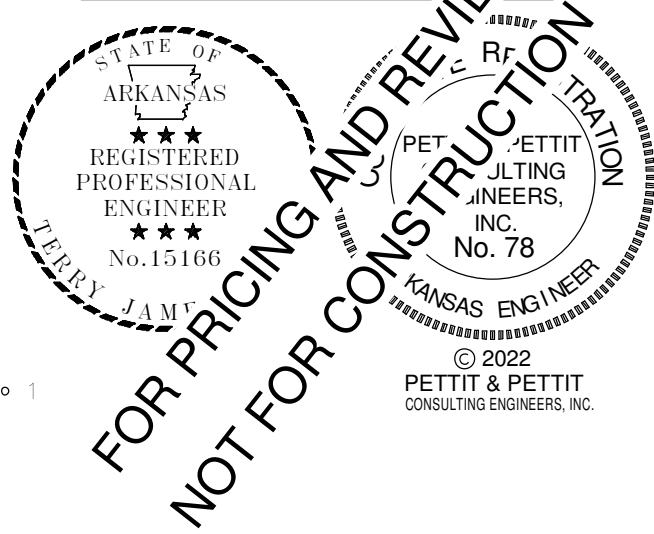
**7** MANUAL DAMPER  
OPERATOR DETAIL  
N.T.S.



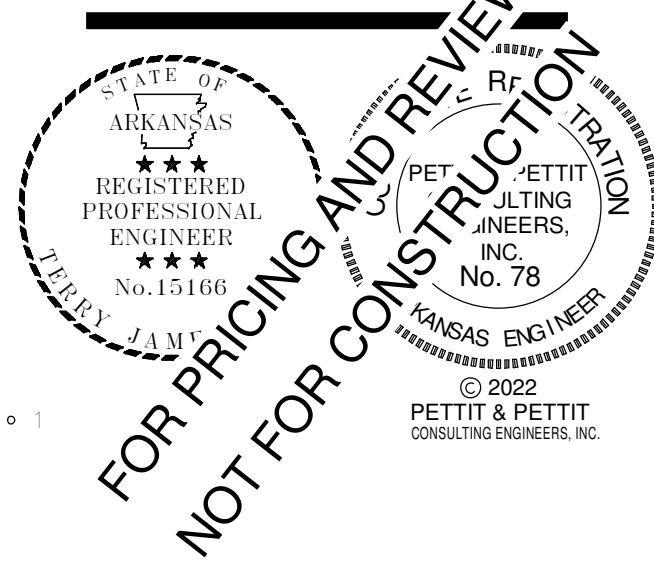
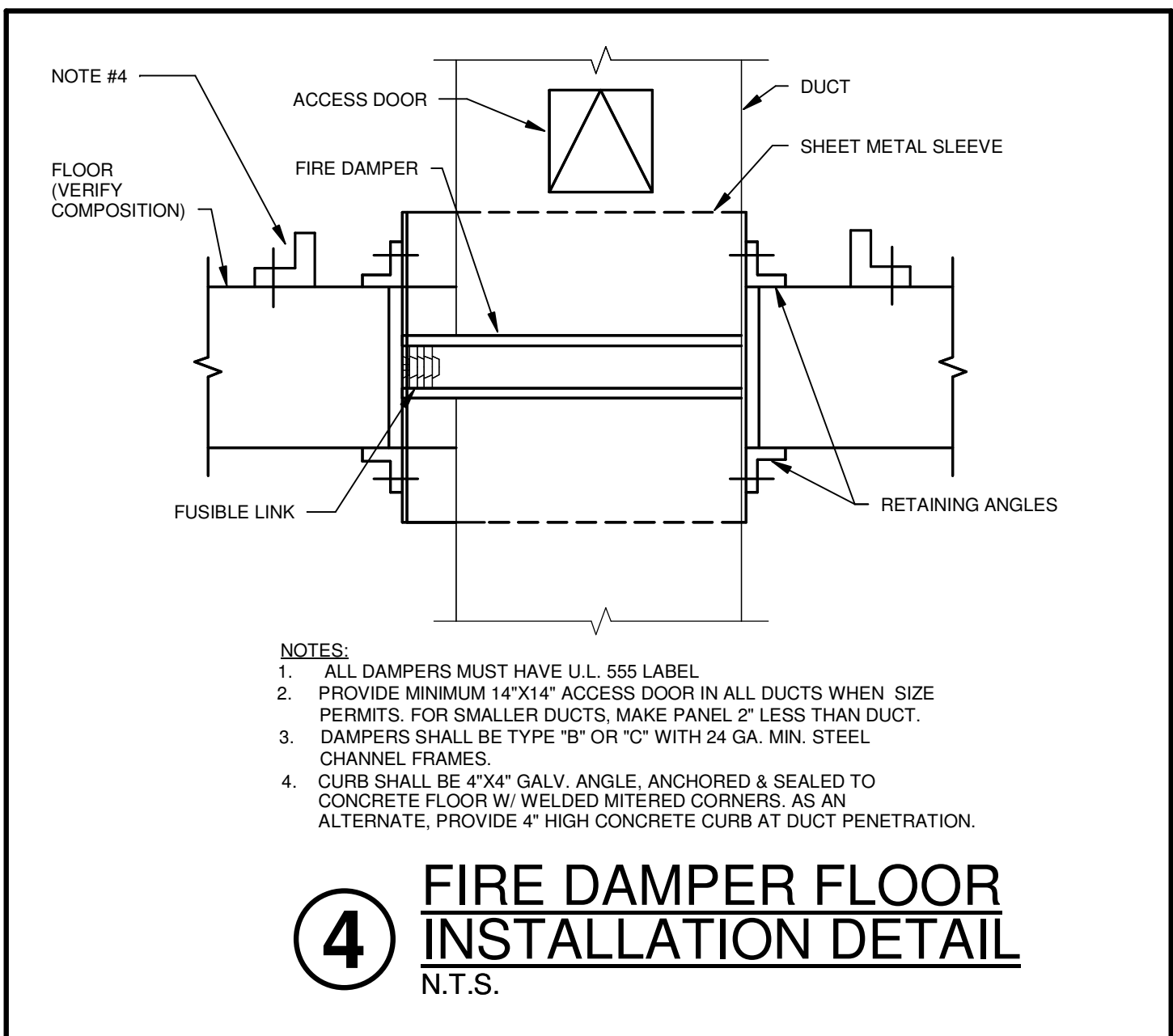
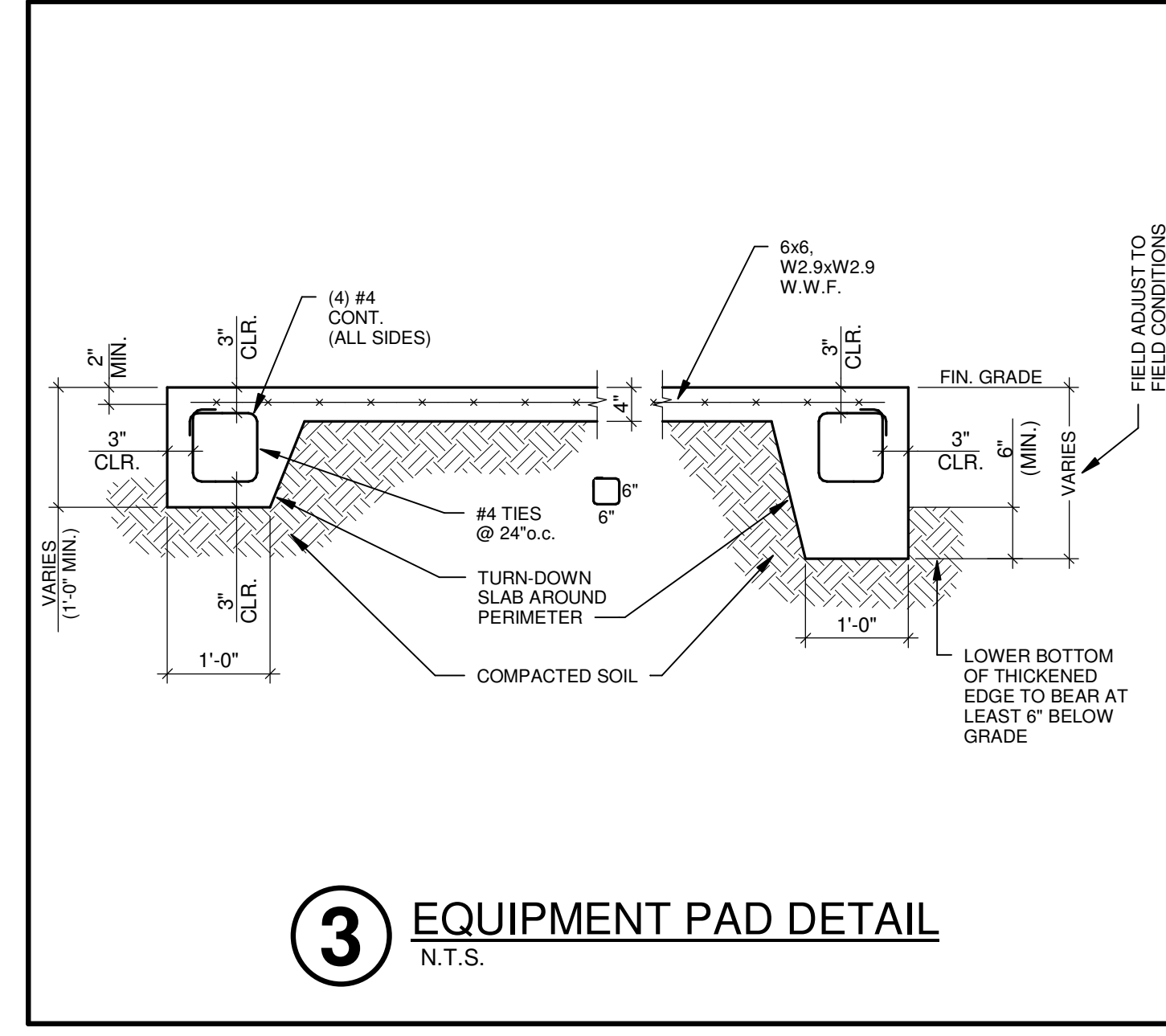
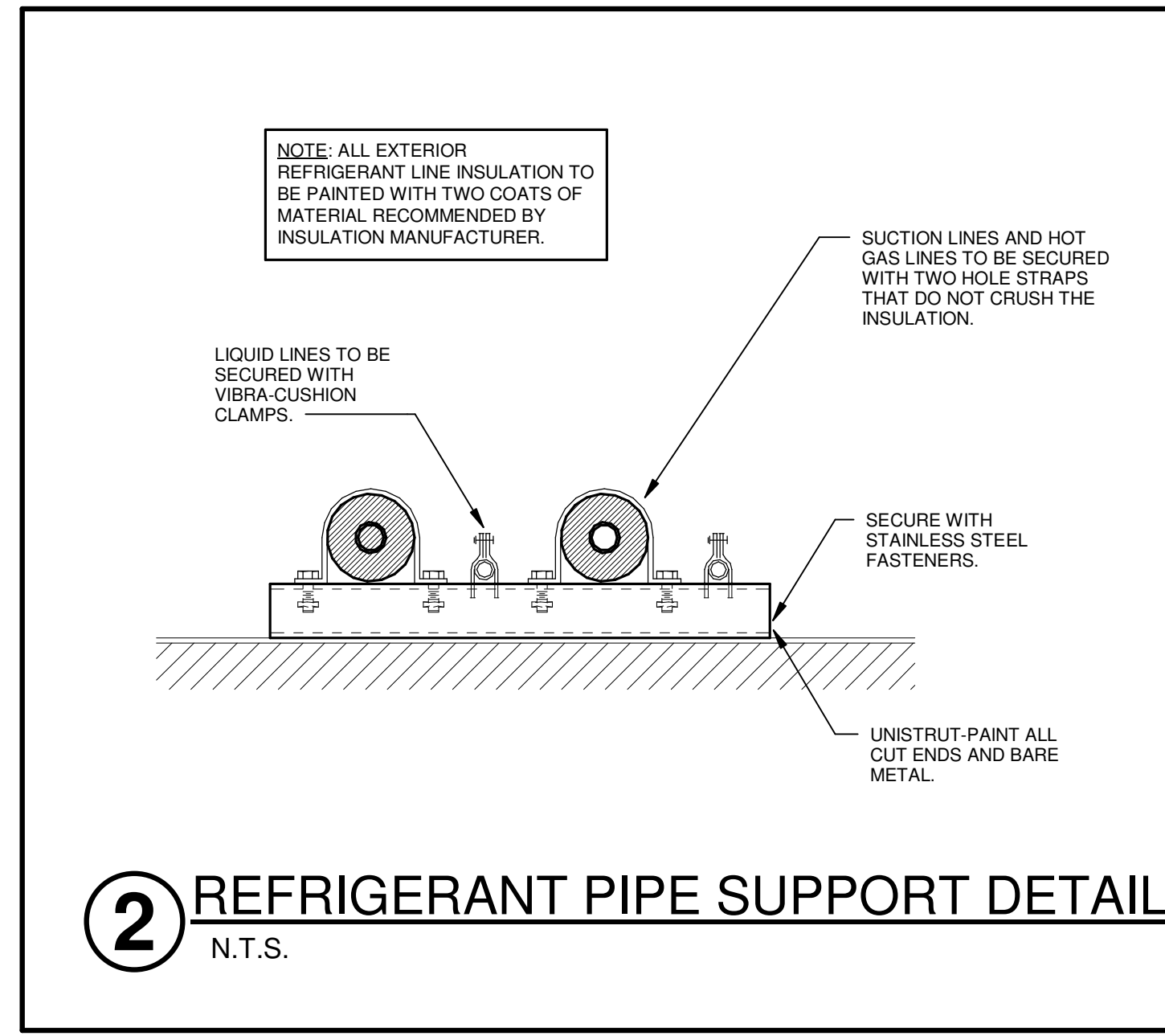
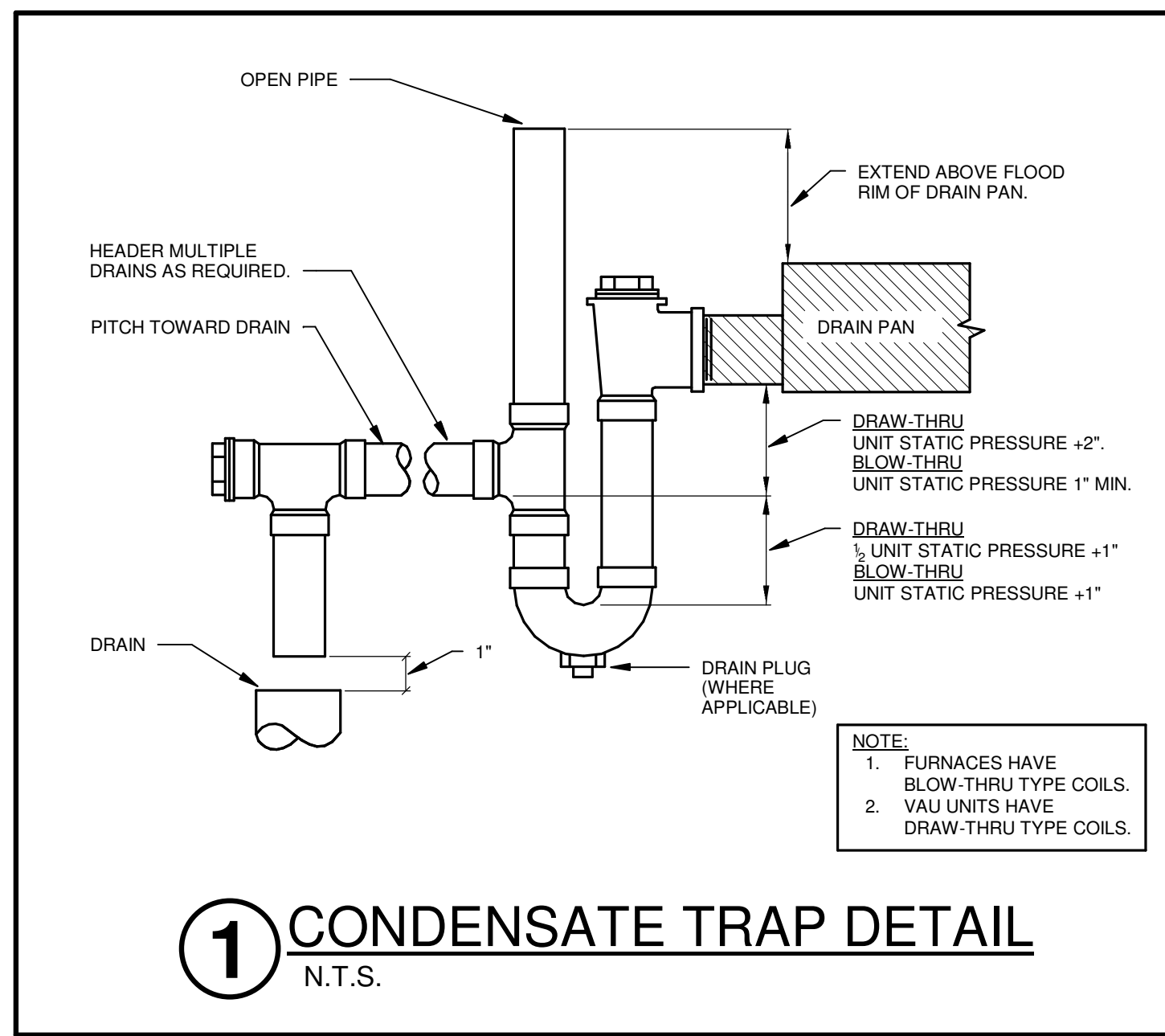
**8** REFRIGERANT PIPE SUPPORT DETAIL  
N.T.S.



**9** REFRIGERANT PIPING DIAGRAM  
N.T.S. HEAT PUMP (1-5 TON)







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HVAC DETAILS

**M3.02**

## PACKAGED INDOOR AIR HANDLING UNIT SCHEDULE (HEAT PUMP)

DESIG.	MFR/MDL	TYPE	CFM	OSA	ESP/TSP	COOLING (NET CAPACITY SHOWN)						HEAT PUMP HEATING				ELECTRIC HEAT (DUCT MOUNT)				HOT GAS RE-HEAT			EVAPORATOR FAN				ELECTRICAL DATA (UNIT)			WEIGHT	REMARKS		
						TOTAL	SENS	EAT	LAT(COIL)	AMBIENT	RETURN	47° AMB.	17° AMB.	TEMP	EAT	TYPE	CONTROL	TEMP	EAT/LAT	KW	DUCT	EAT	LAT	MBH	HP	DRIVE	NO	FLA	VOLT			MCA	MAX FUSE
AHU-1	ABOVE AIR TECHNOLOGIES / VKE-096D-3-HGHP0-00-00-1D-00-00-FR-B	HORZ. INDOOR AIR HANDLER	2,700	540 CFM	1.00"	102.8 MBH	71.2 MBH	78.2°F d.b. 65.8°F w.b.	53.9°F d.b. 52.9°F w.b.	91.0°F d.b. 79.0°F w.b.	75.0°F d.b. 63.0°F w.b.	92.5 MBH EAT: 57.4 LAT: 88.9	51.4 MBH EAT: 51.4 LAT: 68.9	0°F OSA 70°F ISA	---°F	EDH-1 & EDH-2	SCR	0°F OSA 70°F ISA	---°F d.b. ---°F w.b.	17 EA.	12" / 18"	53.9°F d.b. 52.9°F w.b.	72.1°F d.b. 59.9°F w.b.	53.2	1.5	BELT	1	5.2	208 3ø	39.8	50	1,050	PROVIDED WITH STAINLESS STEEL DRAIN PAN W/ OVERFLOW SWITCH, 2" MERV 13 FILTERS, INTEGRATED CONTROLLER W/ CAPABILITIES FOR EXTERNAL ELECTRIC DUCT HEATER CONTROL.

## AIR COOLED CONDENSER SCHEDULE

DESIG.	MFR/MDL	TYPE	WEIGHT	SERVES	COOLING			MOTOR DATA						ELECTRICAL			REMARKS	
					T(MBH)	S(MBH)	AMBIENT	COMPRESSOR			CONDENSER FAN			VOLTS/PH.	MCA	MOCP		
								NO	LRA	FLA	HP	DRIVE	NO					FLA
CU-1	ABOVE AIR TECHNOLOGIES / XP4-096D-1-00-00-00-VF	OUTDOOR PROP FAN	885 LBS.	AHU-1	122.5	---	95°	2	(1) 110.0 (1) 98.0	(1) 16.1 (1) 14.5	3	AXIAL	4	2.0	208 v / 3ø	10.0	15	---

## AIR DEVICE SCHEDULE

DESIG.	MFR./MDL	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TITUS TMS	LOUVER FACE CEILING SUPPLY	AS NOTED	COORDINATE WITH ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION .
SG-1	TITUS 300RL	SIDEWALL SUPPLY GRILLE	AS NOTED	COORDINATE WITH ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION .
SG-2	TITUS 300RL-HD	SIDEWALL SUPPLY GRILLE	AS NOTED	COORDINATE WITH ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION & EXTRACTOR .
RG-1	TITUS 350RL	SIDEWALL RETURN GRILLE	AS NOTED	COORDINATE WITH ARCHITECT	---	OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION .

## DUCT HEATER SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCAT	TYPE	CFM	MIN. CFM	MIN. FPM	HEATING		ELECTRICAL DATA		REMARKS
								KW	BTU/HR	AMPS	VOLT / PHASE	
EDH-1	GREENHECK / IDHE	AHU-1	MECH. ROOM	SLIP IN DUCT MOUNTED	1,350	598 CFM AT 60°F	399 CFM AT 60°F	17	58,006	48	208/3ø	PROVIDE WITH SCR CONTROL, SERVICE DISCONNECT, PILOT LIGHT, AIRFLOW SWITCH, AND CONTROL TRANSFORMER. DUCT HEATER MOUNTS IN 12" x 18" DUCT
EDH-2	GREENHECK / IDHE	AHU-2	MECH. ROOM	SLIP IN DUCT MOUNTED	1,350	598 CFM AT 60°F	399 CFM AT 60°F	17	58,006	48	208/3ø	PROVIDE WITH SCR CONTROL, SERVICE DISCONNECT, PILOT LIGHT, AIRFLOW SWITCH, AND CONTROL TRANSFORMER. DUCT HEATER MOUNTS IN 12" x 18" DUCT

## UNIT HEATER SCHEDULE

DESIG.	MFR/MDL	SERVES	LOCAT	TYPE	CFM	HEATING		BLOWER		ELECTRICAL		REMARKS
						WATTS	BTU / HOUR	HP	VOLT / PHASE	AMPS	VOLT / PHASE	
EUH-1	MARKEL / J3422T	MECH. BASEMENT	MECH. BASEMENT	WALL HEATER	---	2,000	6,826	---	---	5.6	208 / 3ø	PROVIDE WITH MOUNTING KIT FOR IN-WALL INSTALLATION (WALL BOX: 3420) AND UNIT DISCONNECT.

## EXHAUST FAN SCHEDULE

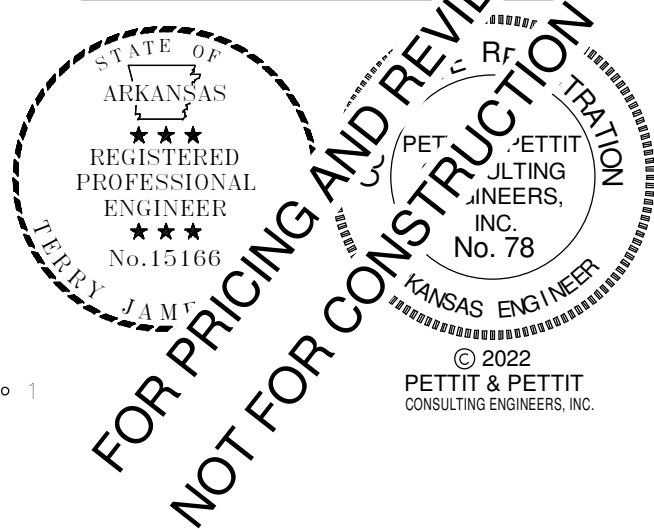
DESIG.	MFR/MDL	SERVES	LOCAT.	TYPE	FAN DATA						MOTOR DATA				REMARKS	
					CFM	S.P.	RPM	DRIVE	TYPE	DIA.	SONES	RPM	BHP	HP		VOLT/PH
EF-1	COOK / GC/GCVF GC-146	RR 103	CEILING MOUNT	INLINE	75	0.35"	900	DIRECT	CENTR.	--	1.5	1,100	---	35 W	120 / 1ø	PROVIDE W/ WALL SLEEVE, BACKDRAFT DAMPER, FAN SPEED CONTROL, BIRD SCREEN, AND DISCONNECT SWITCH.
EF-2	COOK / GC/GCVF GC-146	RR 103	CEILING MOUNT	INLINE	75	0.35"	900	DIRECT	CENTR.	--	1.5	1,100	---	35 W	120 / 1ø	PROVIDE W/ WALL SLEEVE, BACKDRAFT DAMPER, FAN SPEED CONTROL, BIRD SCREEN, AND DISCONNECT SWITCH.

## DUCTWORK LEGEND

	CEILING DIFFUSER (CD)
	RETURN AIR GRILLE (RA)
	EXHAUST REGISTER (ER)
	624 CD-1 100 CFM FLEXIBLE DUCT CONNECTOR
	TURNING VANES
	SPLITTER DAMPER (TEE)
	INTERNALLY INSULATED DUCT
	EXTRACTOR
	MANUAL DAMPER
	FIRE DAMPER AND ACCESS DOOR (SMOKE DAMPER S.D. SIMILAR)
	CONDENSATE DRAIN PIPING
	OVERFLOW CONDENSATE DRAIN PIPING
	REFRIGERANT SUCTION AND LIQUID PIPES
	DIAMETER
	THERMOSTAT (WITH UNIT NUMBER)
	TOP NUMBER REFERS TO THE DETAIL NUMBER. BOTTOM NUMBER REFERS TO THE SHEET WHERE DETAIL IS SHOWN

## HVAC GENERAL NOTES

- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
- FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER.
- ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
- WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
- PROVIDE TURNING VANES IN ALL 90-DEGREE MITERED ELBOWS.
- PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
- EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
- EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED OTHERWISE
- EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK
- DUAL WALL DUCTWORK SHALL BE 1" THICK WITH INSULATION BETWEEN WALLS.
- INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
- RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.
- REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
- COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
- COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.
- COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
- PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.
- PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
- COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.



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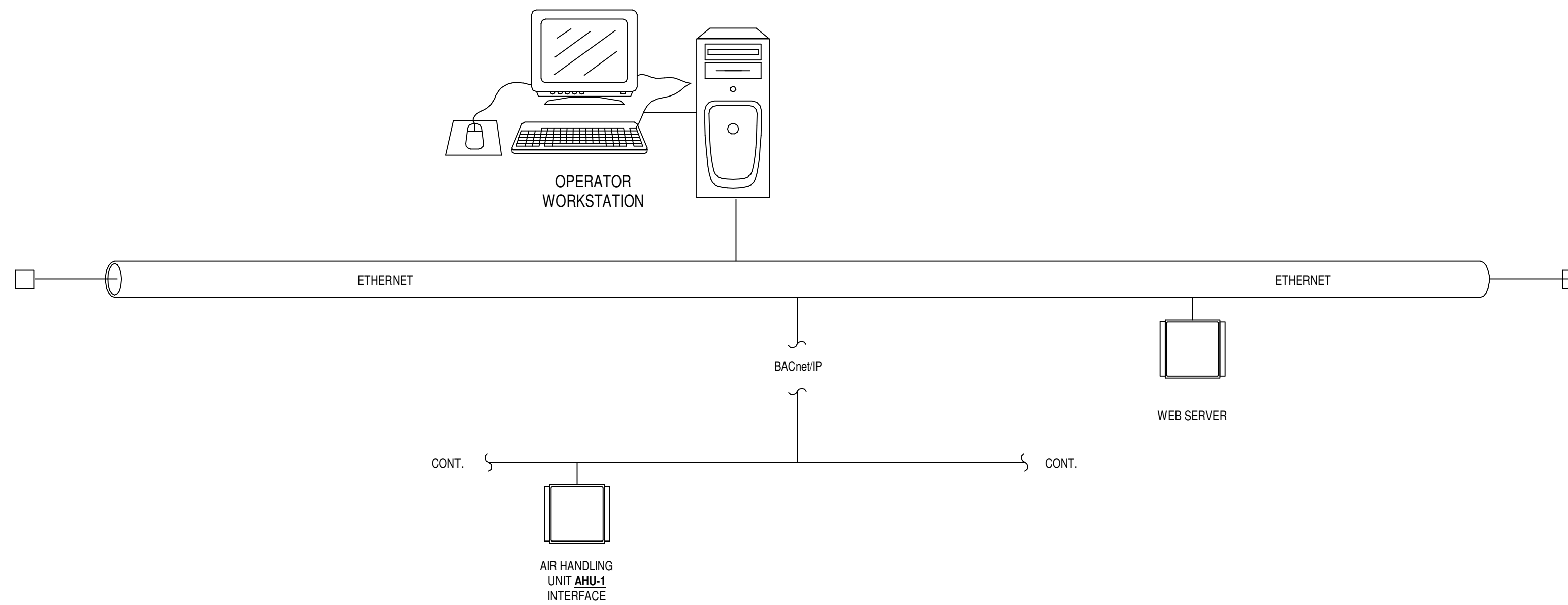
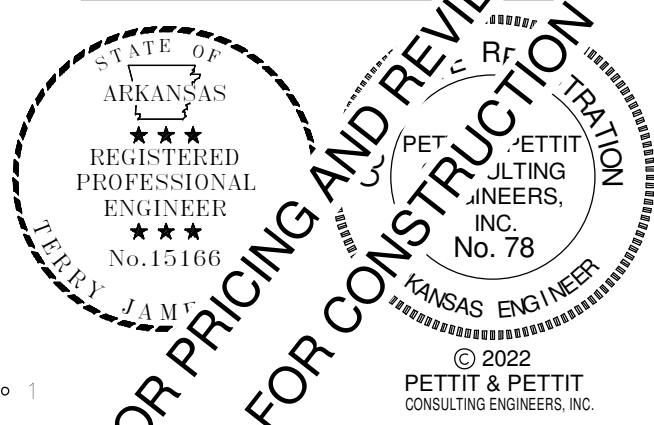
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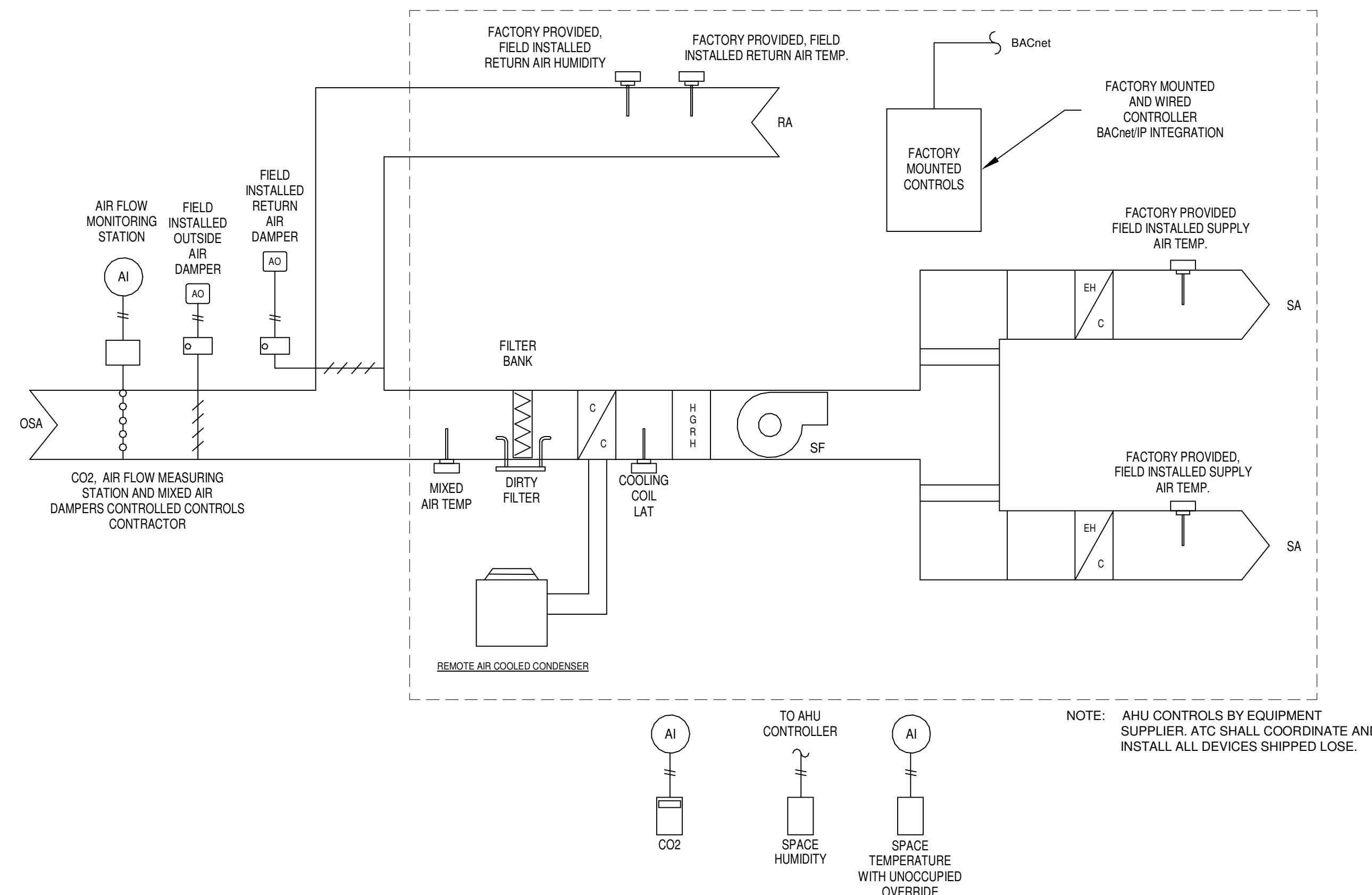
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HVAC SCHEDULES

# M4.01



**1 SYSTEM ARCHITECTURE**  
SCALE NTS



**2 AIR HANDLING UNIT (AHU-1) INTEGRATION CONTROL DIAGRAM**  
SCALE NTS

**SEQUENCE OF OPERATIONS (AHU-1 & CU-1)**

**FAN CONTROL**  
UNIT OPERATION IS INITIATED WHEN ALL POINTS ARE IN THEIR RUN POSITIONS.

**SYSTEM ENABLE:** THE SYSTEM ENABLE IS CONTROLLED AT THE UNIT'S DISPLAY TERMINAL, WITHIN THE SYSTEM ENABLE MENU.

**REMOTE STOP/START:** REMOTE STOP/START NC CONTACTS ARE PROVIDED ON ALL UNITS AND SHIP FROM THE FACTORY JUMPERED FOR CONTINUOUS OPERATION.

**BMS CONTROL:** THE UNIT IS PROVIDED WITH AN OPTIONAL POINT THAT MAY BE WRITTEN BY A BMS TO INDEX UNIT OPERATION.

**SCHEDULE CONTROL:** THE UNIT IS PROVIDED WITH A LOCAL SCHEDULE THAT MAY BE SET TO OPERATE THE UNIT IN OCCUPIED OR UNOCCUPIED MODES BASED ON ITS TIME CLOCK.

**FAN CONTROL**  
WHEN THE UNIT IS INDEXED FOR OPERATION AND IN ITS OCCUPIED MODE, THE SUPPLY FAN SHALL BE ENERGIZED AFTER A 30 SEC. (ADJ.) DELAY TO ALLOW FOR OPTIONAL CONTROL DAMPER ACTUATION. THE FAN SHALL RUN CONTINUOUSLY. AFTER AN ADDITIONAL 15 SEC. (ADJ.) DELAY TO ALLOW FOR AIR PROVING, THE UNIT SHALL OPERATE AS DESCRIBED HEREIN.

**SYSTEM MODE**  
THE UNIT PROVIDES AUTOMATIC CHANGE-OVER BETWEEN COOLING, HEATING, AND DEHUMIDIFICATION. THE COOLING AND HEATING SET POINTS ARE SEPARATED BY A DEAD BAND 5°F (ADJ.) TO MINIMIZE UNIT CYCLING AND PREVENT SIMULTANEOUS COOLING AND HEATING. THE DEHUMIDIFICATION SET POINTS ARE ALSO SEPARATED BY A DEAD BAND 10% (ADJ.).

**COOLING OPERATION**  
ON A RISE IN SPACE TEMPERATURE BY 1°F ABOVE THE COOLING SET POINT 72°F (ADJ.), THE UNIT SHALL ENERGIZE ITS FIRST COMPRESSOR STAGE. THE FIRST COMPRESSOR SHALL ENERGIZE AT 100% AND MODULATE TO MEET THE SPACE SET POINT. FOR DUAL CIRCUIT UNITS, ON A RISE IN SPACE TEMPERATURE BY AN ADDITIONAL 1°F, AND A MIN. DELAY OF 3 MIN., THE SECOND COMPRESSOR STAGE SHALL ENERGIZE.

ON A FALL IN SPACE TEMPERATURE, THE SECOND COMPRESSOR STAGE SHALL DE-ENERGIZE. ON A CONTINUED FALL IN SPACE TEMPERATURE, THE FIRST COMPRESSOR STAGE SHALL BE DE-ENERGIZED.

ALL COMPRESSORS ARE SUBJECT TO A MIN. RUN TIME OF 3 MINUTES AND A MIN. OFF TIME OF 3 MINUTES TO PREVENT SHORT CYCLING.

**DEHUMIDIFICATION OPERATION**  
IF THE UNIT IS NOT OPERATING IN ITS COOLING OR HEATING MODE AND ON A RISE IN SPACE HUMIDITY ABOVE SET POINTS 55% RH (ADJ.) BY 1% RH, THE UNIT SHALL ENTER ITS DEHUMIDIFICATION MODE. THE UNIT SHALL ENERGIZE ITS FIRST COMPRESSOR. THE FIRST COMPRESSOR SHALL ENERGIZE AT 100% AND MODULATE TO MEET THE SPACE SET POINT.

ON A FALL IN SPACE HUMIDITY, THE FIRST COMPRESSOR SHALL BE DE-ENERGIZED.

**REHEAT OPERATION**  
WHEN THE UNIT IS IN ITS DEHUMIDIFICATION MODE, REHEAT IS AVAILABLE TO PREVENT OVERCOOLING OF THE SPACE. THE HOT GAS REHEAT COIL IS THE FIRST STAGE OF REHEAT. ADDITIONAL ELECTRIC DUCT HEATER EDH-1 & EDH-2 SHALL BE ENERGIZED TO MAINTAIN THE HEATING SET POINT.

**HEATING OPERATION**  
ON A FALL IN SPACE TEMPERATURE BY 1°F BELOW THE HEATING SET POINT OF 70°F (ADJ.), THE ELECTRIC DUCT HEATERS EDH-1 & EDH-2 SHALL MODULATE TO MEET THE SPACE SET POINT. ON A RISE IN SPACE TEMPERATURE, THE ELECTRIC DUCT HEATERS EDH-1 & EDH-2 SHALL MODULATE TO MAINTAIN SPACE SET POINT. ON A CONTINUED RISE IN SPACE TEMPERATURE, THE ELECTRIC DUCT HEATERS SHALL BE DE-ENERGIZED.

**HEAT PUMP OPERATION**  
THE HEAT PUMP OPERATION STAGE SHALL SUPERSEDE THE OTHER HEATING STAGES IN THEIR OPERATIONAL ORDER WHERE CONDITIONS ALLOW.

ON A FALL IN SPACE TEMPERATURE BY 1°F BELOW THE ACTIVE SUPPLY AIR SET POINT, THE UNIT SHALL ENERGIZE ITS FIRST COMPRESSOR STAGE. THE FIRST COMPRESSOR SHALL ENERGIZE AT 100% AND MODULATE TO MEET THE SPACE SET POINT. ON A FALL IN SPACE TEMPERATURE BY AN ADDITIONAL 1°F, AND A MINIMUM DELAY OF 3 MINUTES, THE SECOND HEAT STAGE SHALL ENERGIZE. ON THE CONTINUED FALL IN SPACE TEMPERATURE THE ELECTRIC DUCT HEATERS SHALL BE ENABLED AS DESCRIBED IN THE HEATING OPERATION SEQUENCE ABOVE.

ON A RISE IN SPACE TEMPERATURE, THE SECOND COMPRESSOR STAGE SHALL DE-ENERGIZE. ON A CONTINUED RISE IN MIXED AIR TEMPERATURE, THE FIRST COMPRESSOR STAGE SHALL DE-ENERGIZE.

**UNOCCUPIED OPERATION**  
IF THE UNIT UTILIZES THE SYSTEM SCHEDULE, THEN DURING UNOCCUPIED HOURS THE FAN SHALL BE DE-ENERGIZED. IF THE SPACE TEMPERATURE FALL BELOW THE UNOCCUPIED HEAT SET POINT 60°F (ADJ.) BY 1°F OR RISES ABOVE THE UNOCCUPIED COOLING SET POINT 80°F (ADJ.) BY 1°F, THE FAN SHALL ENERGIZE AND THE UNIT SHALL OPERATE AS DESCRIBED HEREIN. ON SATISFACTION UNOCCUPIED SET POINT, THE UNIT SHALL DE-ENERGIZE THE FAN.

**SYSTEM ALARMS**  
**AIR PROVING:** A DIFFERENTIAL PRESSURE SWITCH OR CURRENT SENSING SWITCH CLOSING TO CONFIRM AIRFLOW PRIOR TO THE ACTIVATION OF OTHER MECHANICAL COMPONENTS. IF THE SWITCH DOESN'T CLOSE AFTER AND ADJ. TIME DELAY OR OPENS DURING UNIT OPERATION, THE UNIT SHALL LOCK-OUT OPERATION AND ENUNCIATE AN ALARM.

**DIRTY FILTER:** AN ADJ. DIFFERENTIAL PRESSURE SWITCH SHALL OPEN WHEN THE PRESSURE DROPS ACROSS THE FILTER EXCEED THE DESIRED PRESSURE DROP AND ENUNCIATES AN ALARM.

**CONDENSATE ALARM:** A CONDENSATE PAN SWITCH CONNECTED TO THE PAN INDICATED THE EVENT OF A HIGH WATER LEVEL STATUS. ON A HIGH CONDENSATE CONDITION, THE CIRCUIT WILL OPEN AND SHUT DOWN ALL MECHANICAL COOLING OR LOCK OUT UNIT OPERATION AND ENUNCIATE AN ALARM.

**LIFE SAFETY:** A DUCT MOUNTED SMOKE DETECTOR SHALL OPEN A RELAY AND BREAK CONTROL POWER TO THE MICROPROCESSOR. UNIT OPERATION SHALL CEASE. THE LIFE SAFETY ALARM SHALL BE ROUTED THROUGH THE CONTROLLER TO ENUNCIATE AN ALARM AND SIGNAL THE BMS.

**OUTSIDE AIR CONTROL**  
SPACE CO2 LEVELS SHALL BE MONITORED. IF SPACE CO2 EXCEEDS 1,100 PPM THE OUTSIDE AIR DAMPER SHALL BE MODULATED LINEARLY TO THE MAX OSA BASED UPON DEVIATION FROM CO2 SETPOINT UNTIL SATISFACTORY SPACE CO2 LEVELS ARE REACHED.

310 ARKANSAS AVE RENOVATION  
UNIVERSITY OF ARKANSAS

310 Arkansas Avenue  
Fayetteville, AR 72701

REVISIONS:

PROJECT NO.  
21085  
DATE:  
June 14, 2022

HVAC CONTROLS

M5.01



**PLUMBING GENERAL NOTES**

- THE CONTRACTOR SHALL, PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.
- HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHER WISE.
 

WATER CLOSET	1-1/4"
URINAL	1"
LAVATORY	1/2"
SERVICE SINK	3/4"
ELECTRIC WATER COOLER	1/2"
SINK	1/2"
SHOWER	1/2"
FREEZE-PROOF WALL HYDRANT	3/4"
CLINICAL SINK	1-1/4" & 1/2"
ICE MACHINE	1/2"
SUPPLY AND DRAIN UNIT (WASHER BOX)	1/2"
HOSE BIBB	3/4"
EMERGENCY SHOWER EYEWASH	1-1/4"
- INSTALL WATER HAMMER ARRESTORS EQUAL TO ZURN "SHOKTROL" AT EACH QUICK CLOSING VALVE, AND AT EACH GROUP OF PLUMBING FIXTURES, AND AS NOTED ON DRAWINGS SIZED AS PER MANUFACTURERS RECOMMENDATIONS. (MUST BE ACCESSIBLE WHERE POSSIBLE, ABOVE CEILING IF NECESSARY)
- ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH HIGH EAR COUPLING EQUAL TO MUELLER CO. No. C-100HE (1/2", 3/4" OR 1" SIZE) AT THE WALL (ANCHOR TO CROSS MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.
- ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TYPE TRAP WITH NOT LESS THAN FOUR INCH (4") WATER SEAL AND BE PROVIDED WITH TRAP PRIMER.
- ALL VENTS THROUGH ROOF (V.T.R.) SHALL BE PROVIDED WITH 6# (24" X 24" SIZE) FLASHING, WHERE STANDING SEAM TYPE IS USED THE FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS RECOMMENDATION AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CLOSE COORDINATION WITH THE ROOFING CONTRACTOR SHALL BE MAINTAINED TO ASSURE THE VENT PENETRATION IS CENTERED WITHIN THE METAL ROOF PANELS. TYPICALLY FOR METAL OR OTHER SPECIAL MATERIAL, ROOFS - USE MANUFACTURED RUBBER BOOT WITH STAINLESS STEEL HARDWARE TYPE THAT IS ARCHITECT APPROVED AND MUST BE COMPATIBLE WITH ROOFING SYSTEM AND ROOF WARRANTY.
- FLUSH VALVES SHALL BE MOUNTED SUCH THAT THE DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". (DOES NOT APPLY TO ELECTRONIC FLUSH VALVES) WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT. SEE SPECIFICATIONS AND WATER CLOSET DETAIL.
- WHERE THIS SYMBOL OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SAME SHEET AND THE CORRESPONDING NUMBER OF THAT NOTE.
- WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.
- CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, FIRE PROTECTION AND ELECTRICAL PLANS.
- PROVIDE CLEANOUT CLEARANCE IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE, BUT DO NOT LOCATE IN FOOT TRAFFIC PATHWAYS. DO NOT LOCATE CLEANOUTS IN FLOORS WITH CARPET. (FIELD COORDINATE) LOCATE FLOOR CLEANOUT NEAR WALLS, IN JANITORS ROOM, STORAGE ROOM, ETC., DO NOT LOCATE NEAR DOORWAYS.
- PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES - SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.
- TRAP PRIMERS- LOCATE TRAP PRIMERS REASONABLY CLOSE TO PLUMBING FIXTURE (10' TO 20'). DO NOT CONNECT TRAP PRIMER TO WATER LINE LARGER THAN 1 1/2" SIZE- TRY TO LOCATE TRAP PRIMER LOWER THAN PLUMBING FIXTURES. FIELD VERIFY EXACT TRAP PRIMER LOCATIONS AND WATER PIPE ROUTING. TRAP PRIMER SHALL TYPICALLY BE PRECISION PLUMBING PRODUCTS MODEL # P2-500. WHERE FLOOR DRAINS OCCUR NEAR WATER CLOSETS - USE VACUUM BREAKER TRAP PRIMER - SLOAN "TP" - MODEL VBF-72A - EXPOSED 3/8" TUBING SHALL BE VERY MINIMAL AND CHROME PLATED WITH CAST CHROME FLANGE TO WALL.
- COORDINATE EXACT LOCATIONS OF ALL PLUMBING PIPING WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL "ADA" PLUMBING FIXTURES
- ALL SANITARY SEWER RISERS SHALL HAVE CLEANOUT AT THE BASE (WALL CLEANOUT OR FLOOR CLEANOUT)
- ALL STORM DRAIN PIPING SHALL HAVE CLEANOUT PLUGS AT EACH 90° TURN ABV CEILINGS AND HAVE A FLOOR OR WALL CLEANOUT AT THE BASE OF ALL RISERS.
- INSTALL PIPING EXPANSION JOINTS IN ALL PIPING THAT CROSSES BUILDING EXPANSION JOINTS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PLUMBING ROOF PLAN FOR BUILDING EXPANSION JOINT LOCATIONS.
- TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER (TYP ALL AREAS) - MUST BE INSTALLED TO MEET PLUMBING CODES, EVEN IF NOT SHOWN ON DRAWING - VERIFY AND COORDINATE WITH CIVIL UTILITY DRAWINGS.

**PLUMBING LEGEND**

SYMBOL	DESCRIPTION		
	SOIL, WASTE, OR SANITARY SEWER		UNION
—SS—	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
-----	SANITARY VENT	RD	ROOF DRAIN
—CWV—	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
—W—	WATER (ON SITE)	VTR	VENT THRU ROOF
— — —	COLD WATER	HB	HOSE BIBB
— . . . —	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
— . . . —	HOT WATER RETURN	CO	CLEANOUT PLUG
—SD—	STORM DRAIN	FCO	FLOOR CLEANOUT
—D—	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
—G—	NATURAL GAS (LOW PRESSURE GAS)	WCO	WALL CLEANOUT
	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
	GATE VALVE		DENOTES - SANITARY VENT STACK THRU ROOF
	GLOBE VALVE		RISER DESIGNATION
	CHECK VALVE		NEW CONNECTION TO EXISTING
	BALL VALVE		EXISTING PIPING TO BE REMOVED OR ABANDONED
	PLUG COCK - GAS COCK		EXISTING PIPING TO REMAIN
	PRESSURE REDUCING VALVE		CAP AND SEAL AIR OR WATER TIGHT
	STRAINER		TERMINATION POINT OF DEMOLITION

**FIXTURE LEGEND**

SYMBOL	DESCRIPTION
	NEW FIXTURE
	ROUGH IN AND FINAL CONNECT ONLY
	EXISTING FIXTURE TO REMAIN
	EXISTING FIXTURE TO BE REMOVED
	EXISTING FIXTURE (RELOCATED, OR REPAIRED - SEE NOTES)

**WATER HEATER SCHEDULE**

- WH-1 WATER HEATER - A.O. SMITH MODEL DEL-20, COMMERCIAL ELECTRIC, 20 GALLON TANK CAPACITY, 3 KW INPUT, 120-VOLT. FURNISH T&P RELIEF VALVE. FURNISH CASH ACME VR-801 VACUUM RELIEF VALVE. GALVANIZED STEEL PAN 26"-30" DRIP PAN. FURNISH B&G PR-1 ALL BRONZE CIRCULATING PUMP 120 VOLT WITH AQUASTAT IN HWR LINE. FURNISH AMTROL ST-5 EXPANSION TANK (2 GALLON CAPACITY MIN.)

**PLUMBING FIXTURE SCHEDULE**

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	ADA COMPLIANT	TRIM	SUPPLIES	TRAP	GPM	SUPPORT	COMMENTS
EWC-1	Oasis International	PGF8SBFSL	Versacooler II (with VersaFilter System) Split Level shall deliver 8 gallons of 50 degree F water at 80 degree in let water and 90 degree F ambient. Bubblers shall be chrome-plated brass (or stainless steel) and built in regulator to deliver smooth ready stream at supply pressures from 20 to 125 psi. Model shall include PG8AC and 'VersaFilter' Sports Bottle Filler with hands free activation. Cooler top shall be 304 stainless steel with anti-splash design. Cooler frame shall be 16-gage welded steel and prime coated for corrosion protection. Cabinet Finish shall be Brushed Stainless Steel. Water cooler shall have 5-year warranty on sealed refrigeration system and most component parts.			McGuire H-ST12LK heavy cast brass straight stop with loose key handle, 1/2 inch size;	McGuire 8088 (1-1/4 inch) polished chrome plated cast brass adjustable ground swivel pattern with cleanout;		Zurn Z-1225-BL Rigid Plate System having steel uprights with support plates, and bearing jacks mounted on adjustable header	NOTE: See Architectural drawings for exact locations and mounting height requirements.
FPWH	Zurn	Z-1300	'Ecolotrol' anti-siphon, non-freeze, 3/4 inch size nickel bronze casing and all bronze interior parts and non turning operating rod with free floating compression closure valve, nickel bronze face, integral backflow preventer, union elbow inlet, wall clamp and key handle. Box face and hinged cover shall be nickel bronze complete with operating key and 'Water' cast on cover.							
L-1	Kohler	K-2032	'Greenwich' wall mounted, 20 inch by 18 inch size, vitreous china with back, rectangular basin, splash lip, front overflow and two soap depressions		Sloan Model EBF-650 sensor operated faucet, ADA compliant, 0.5 GPM aerator, polished chrome, McGuire 155-A grid drain, perforated strainer and 1-1/4 inch tailpiece. Sloan below deck thermostatic mixing valve, Model EL-154 transformer.	McGuire H2167LK 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, c.p. brass nipple to wall;	McGuire 8872 (1-1/4 inch) polished chrome plated cast brass adjustable 'P' trap with cleanout and 17-gage tubing to wall with C.P. cast brass set screw escutcheon;		Zurn Z-1231 concealed arm carrier having steel uprights with adjustable headers.	NOTE: All exposed supply (hot and cold water) and drain piping shall be insulated to meet ADA requirements. P-Trap and angle valve assemblies shall be covered with molded, anti-microbial Truebro, Inc. 'Lav-Guard' Model #102 (verify exact model required). Color grey. Cover shall be secured with snap-clips. Angle stops shall have lock-lid access covers.
WC-1	Kohler	K-3999	Highline Comfort Height Toilet, vitreous china, 1.28 gpf, two piece tank and bowl, 12 inch rough in, elongated rim, floor mounted, Olsonite 95-SS 'Industrial' seat - finish white, extra heavy duty plastic for elongated bowl, open front with concealed check hinge, self-sustaining feature and stainless steel hinge post.			McGuire LF2166CCLK loose key closet supply, chrome plated.	Integral with Fixture		Floor Mounted	Rim of fixture to be 16 1/2" above finished floor

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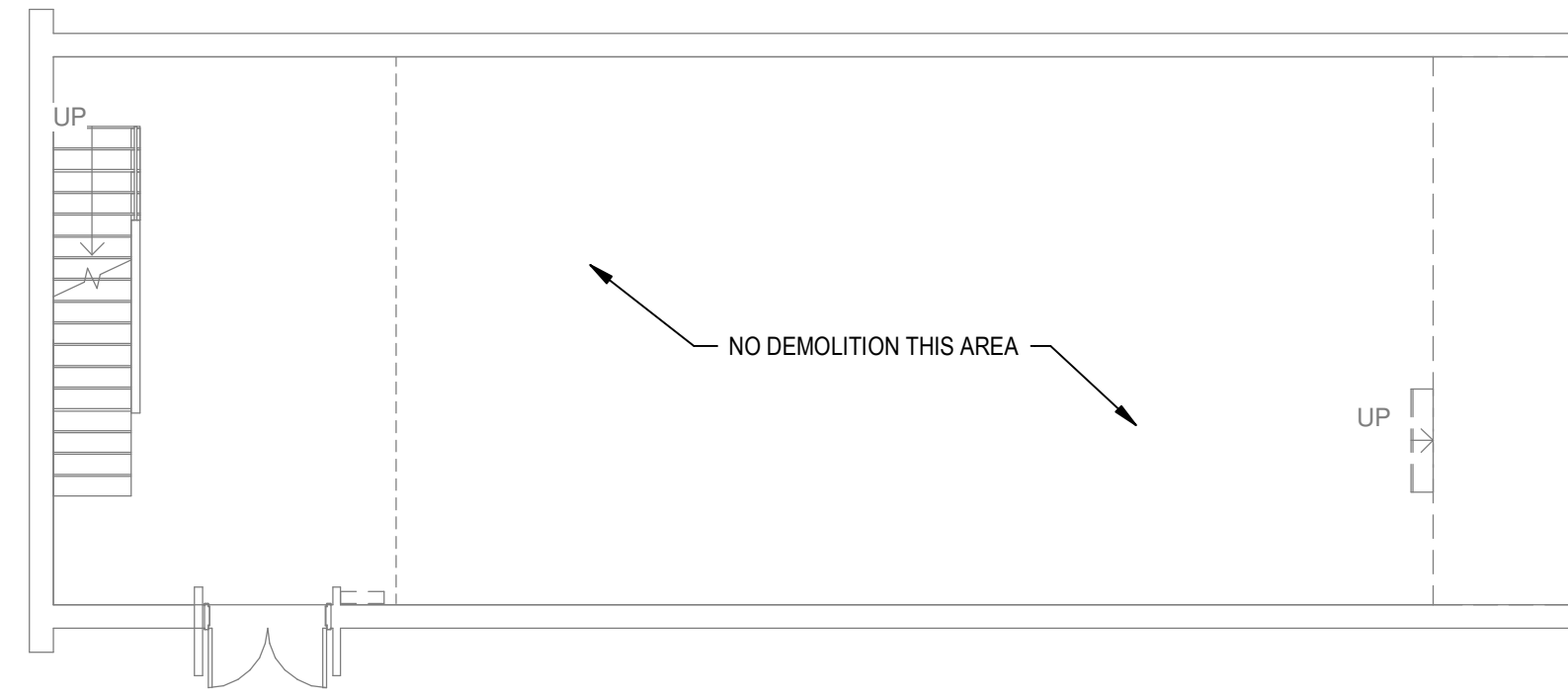
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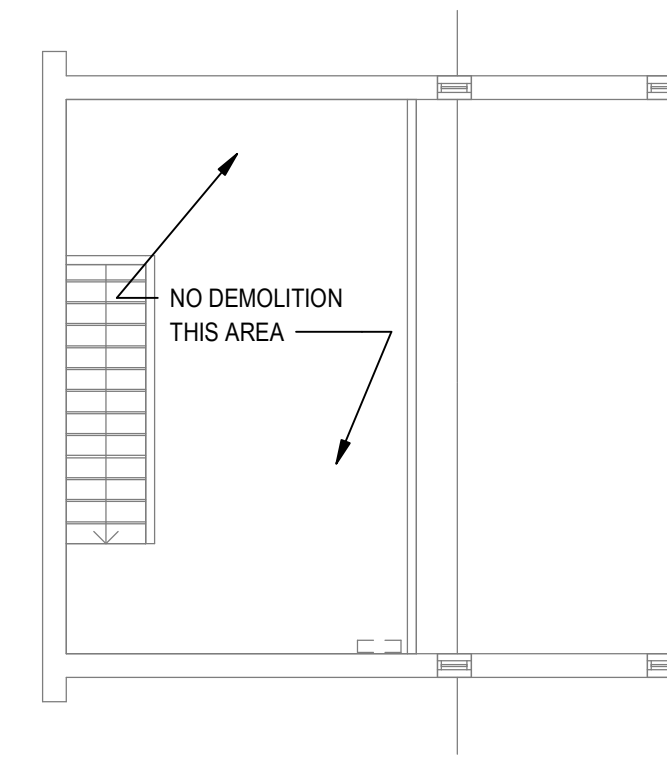
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PLUMBING  
GENERAL NOTES  
AND LEGENDS

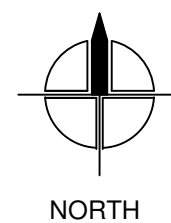
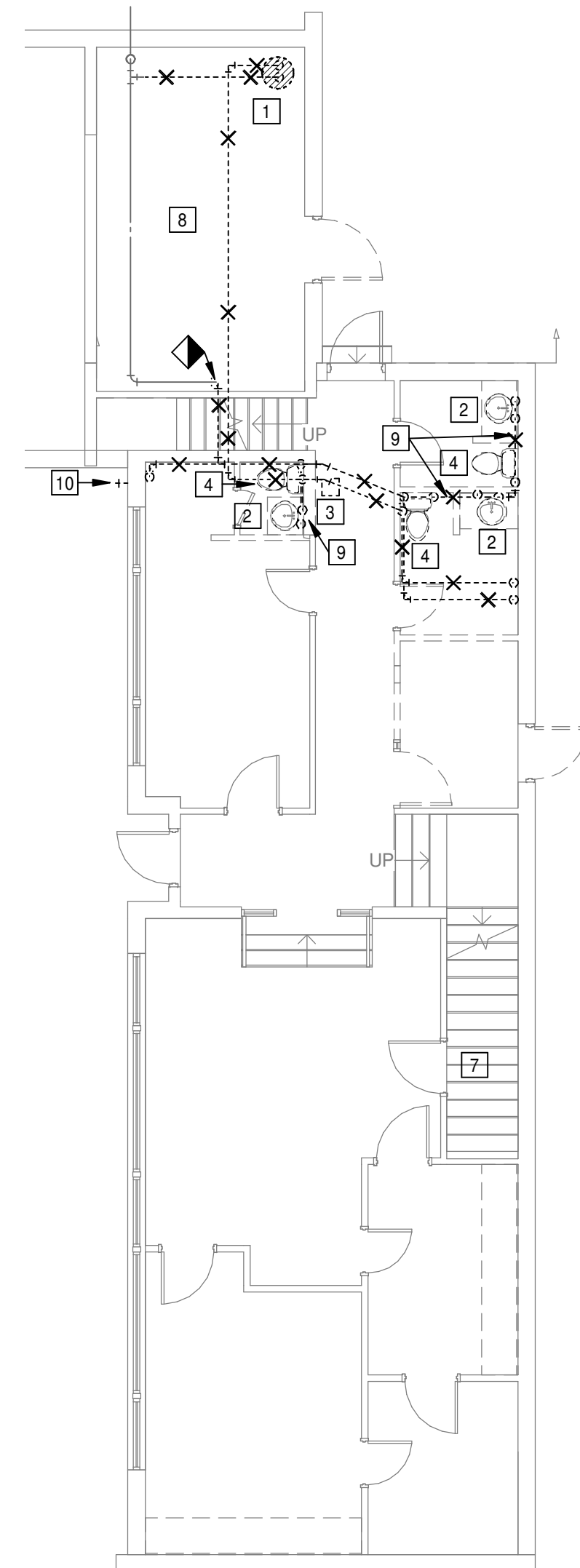
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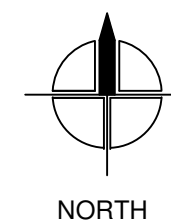
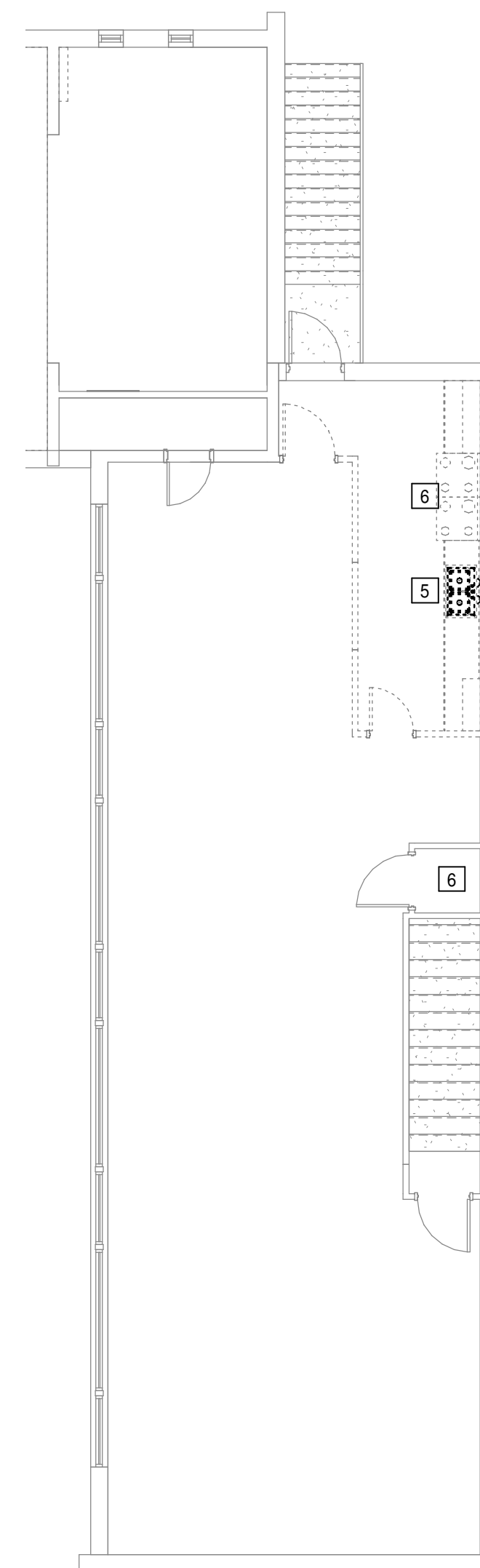
**1** DEMOLITION AUDITORIUM FLOOR PLAN - PLUMBING  
1/8" = 1'-0"



**2** DEMOLITION MEZZANINE PLAN - PLUMBING  
1/8" = 1'-0"



**3** DEMOLITION CLASSROOM WING FIRST FLOOR PLAN - PLUMBING  
1/8" = 1'-0"



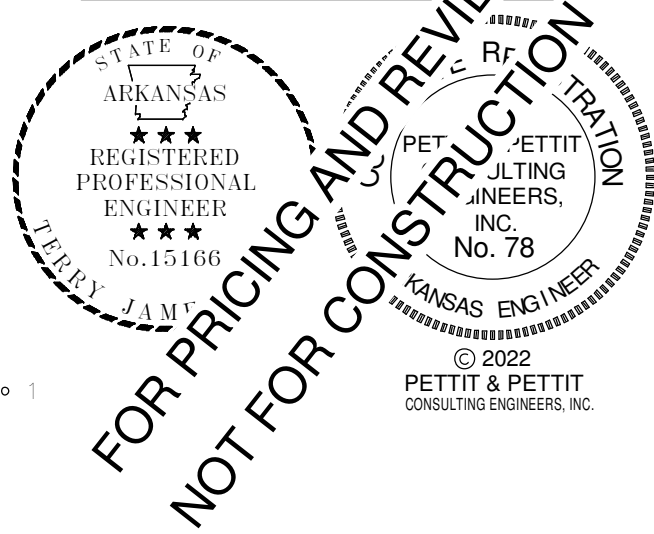
**4** DEMOLITION CLASSROOM WING SECOND FLOOR PLAN - PLUMBING  
1/8" = 1'-0"

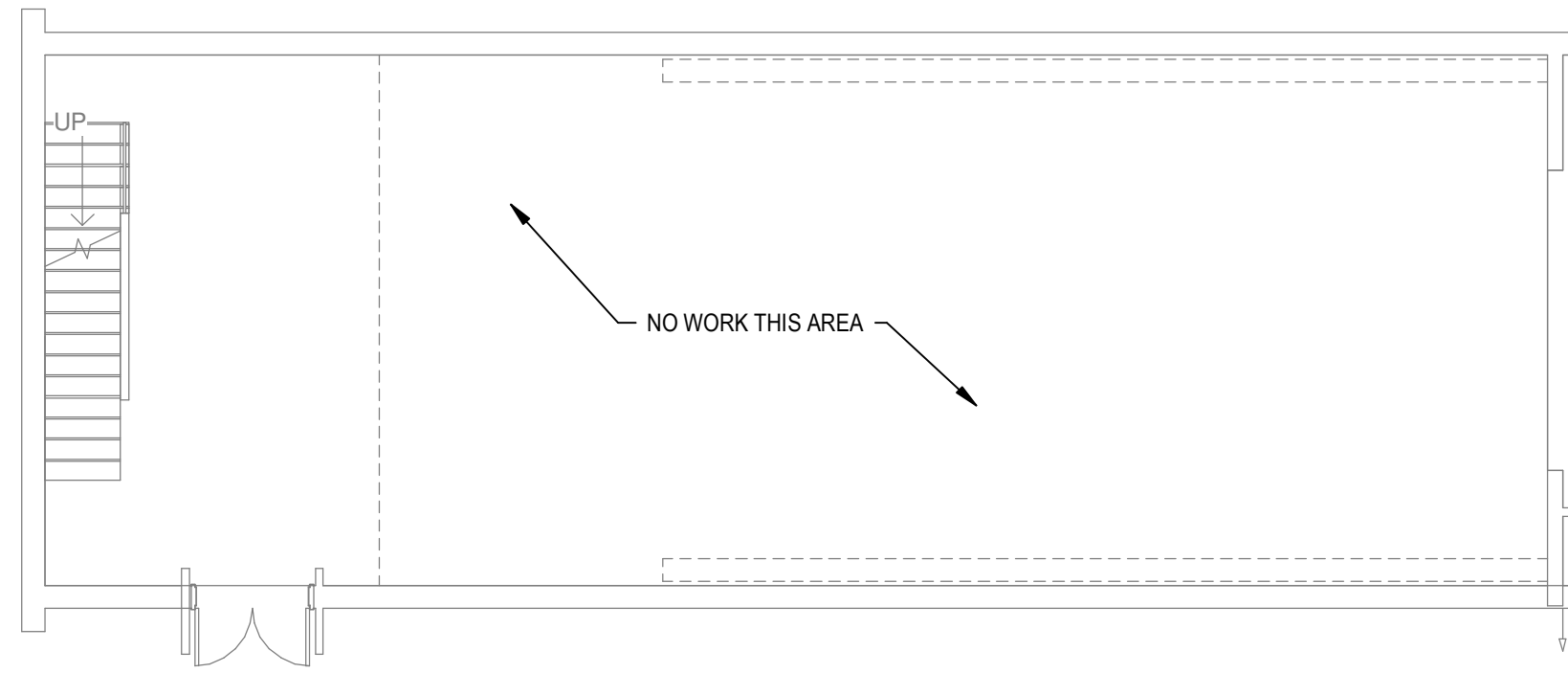
## GENERAL PLUMBING DEMOLITION NOTES

- FIELD VERIFY EXISTING PLUMBING FIXTURE LOCATIONS, TYPE ETC. VERIFY EXISTING PLUMBING PIPING LOCATIONS, SIZES, ETC.
- CUT WALLS, FLOORS OR CEILINGS AS REQUIRED TO INSTALL NEW PIPING. ALL FURRING AND REPAIRING SHALL BE BY THE GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- REWORK EXISTING WATER, SANITARY, ACID WASTE, AND VENT PIPING AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES.
- WHERE EXISTING FIXTURES AND EQUIPMENT ARE REMOVED AND NOT REPLACED, CAP ALL PIPING WITHIN WALLS, FLOORS OR CEILINGS ARE REQUIRED FOR CONCEALMENT.
- REMOVE ALL EXPOSED EXISTING PIPING WHICH IS DEEMED INOPERABLE AS A RESULT OF THIS CONTRACT UNLESS SHOWN OR NOTED OTHERWISE.
- EXISTING PIPE, TO WHICH NEW PIPE IS CONNECTED, SHALL BE RODDED, FLUSHED AND CLEANED FROM POINT OF CONNECTION TO MAIN OUTSIDE BUILDING.
- EXISTING FLOOR DRAINS WITHIN SCOPE OF CONSTRUCTION SHALL BE THOROUGHLY CLEANED AND BUFFED. EXISTING PIPING SHALL BE RODDED AND CLEANED TO THE POINT OF CONNECTION TO THE MAIN.
- ALL PLUMBING FIXTURES, VALVES, PIPING, AND EQUIPMENT WHICH ARE TO BE REMOVED AND NOT RELOCATED SHALL BECOME THE PROPERTY OF THE OWNER AND DELIVERED TO STORAGE ON SITE AS DIRECTED BY THE OWNER.

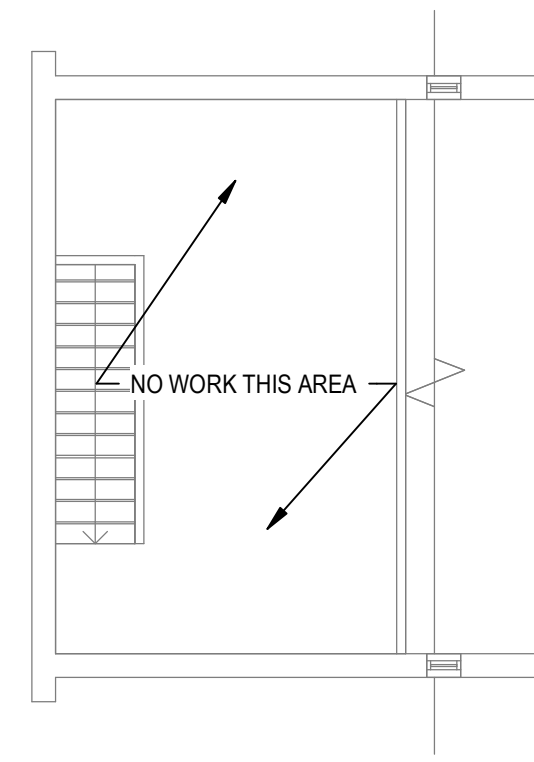
## PLUMBING DEMOLITION KEYED NOTES

- REMOVE WATER HEATER AND ALL ASSOCIATED PIPING.
- REMOVE LAVATORY AND ALL ASSOCIATED PIPING. CAP VENT ABOVE CEILING AND WASTE IN WALL. REMOVE ANY UNUSED VENT OR SANITARY PIPE NO LONGER IN USE. REMOVE HOT AND COLD WATER ALONG WALL.
- REMOVE DRINKING FOUNTAIN AND ALL ASSOCIATED PIPING.
- REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING. CAP VENT ABOVE CEILING AND WASTE BELOW FLOOR. REMOVE ANY UNUSED VENT OR SANITARY PIPE NO LONGER IN USE. REMOVE COLD WATER ALONG WALL. REPAIR FLOOR BACK TO ORIGINAL CONDITION.
- REMOVE SINK AND ALL ASSOCIATED PIPING. CAP VENT ABOVE CEILING AND WASTE BELOW FLOOR AND PREPARE PIPE FOR FUTURE SINK. CAP HOT AND COLD WATER BELOW FLOOR - PROVIDE SHUT-OFF VALVE AND CAP.
- CAP GAS BELOW FLOOR.
- CAP GAS AT WALL.
- CAP GAS AT ALL MECHANICAL EQUIPMENT BEING REMOVED DURING DEMO PHASE. SEE MECHANICAL DEMOLITION PLAN FOR COMPLETE LIST.
- REMOVE HOT AND COLD WATER EXPOSED ON WALL. CAP ABOVE CEILING.
- REMOVE HOSE BIBB AND PREPARE AREA FOR NEW HOSE BIBB LOCATED IN SAME PLACE.





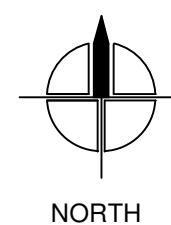
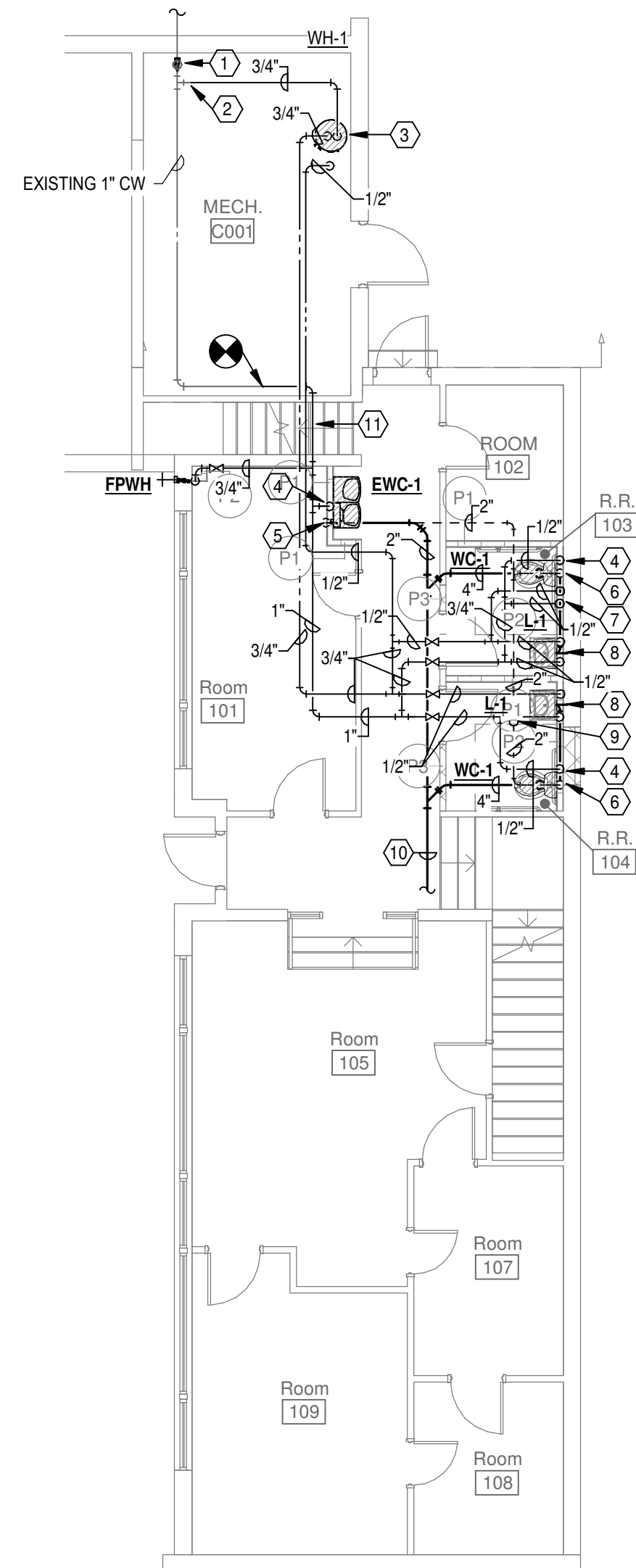
**1 AUDITORIUM FLOOR PLAN - PLUMBING**  
1/8" = 1'-0"



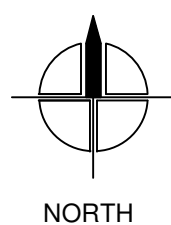
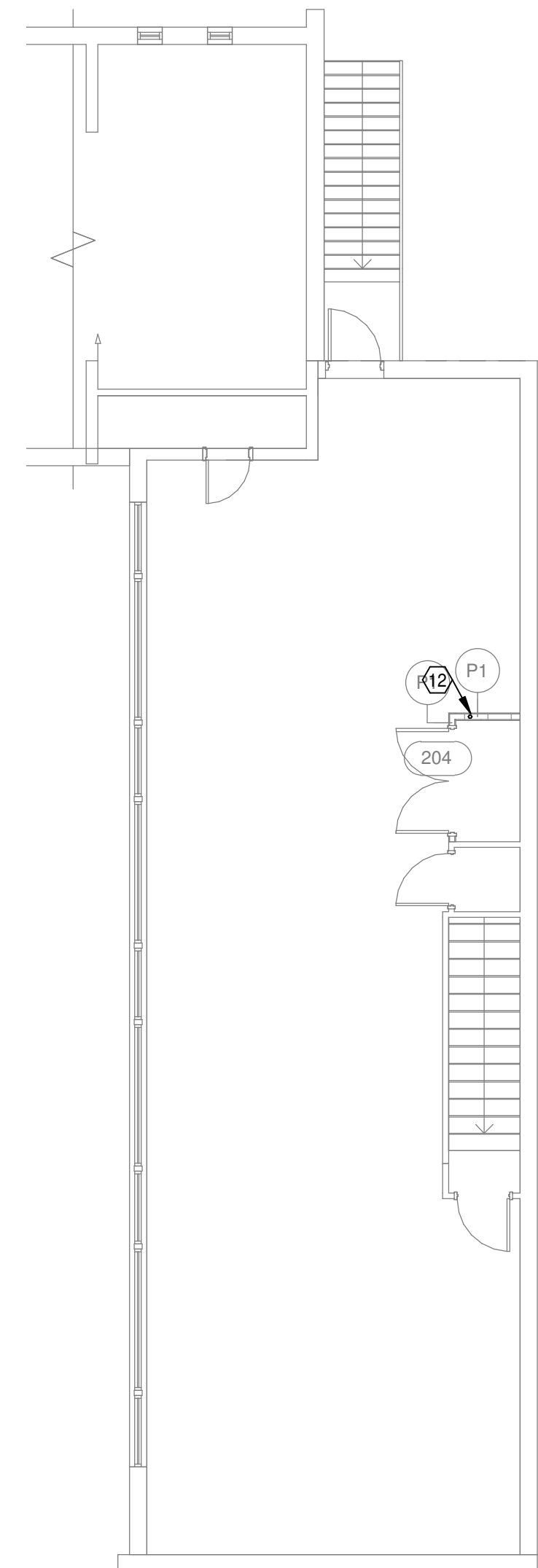
**2 MEZZANINE FLOOR PLAN - PLUMBING**  
1/8" = 1'-0"

**PLUMBING KEYED NOTES**

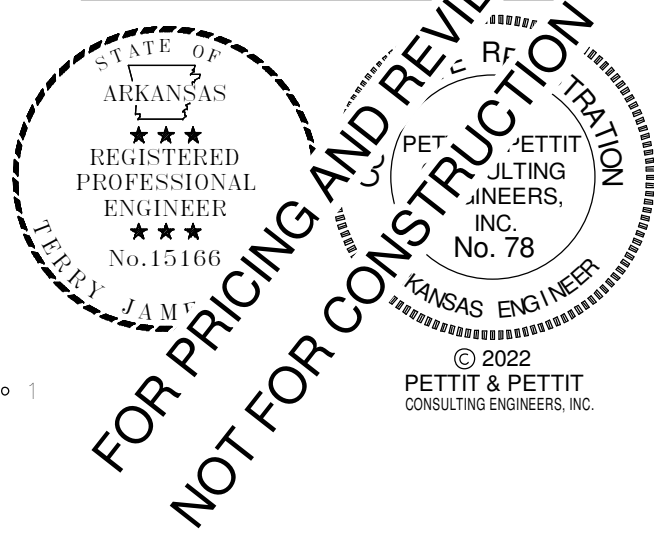
- ① PROVIDE AND INSTALL WATTS SERIES LF909 RPZ (FIELD VERIFY 1" WATER LINE) IN VERTICAL POSITION. CONTRACTOR TO FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS AND CITY OF FAYETTEVILLE GUIDELINES. PIPE DISCHARGE THROUGH EXTERIOR WALL.
- ② CONNECT 3/4" COLD WATER PIPE TO EXISTING WATER LINE. RUN TO WH-1.
- ③ 3/4" COLD WATER TO WATER HEATER. 3/4" HOT WATER TO BUILDING.
- ④ 1/2" COLD WATER DOWN.
- ⑤ 2" WASTE DOWN, 2" VENT UP.
- ⑥ 4" WASTE DOWN, 2" VENT UP.
- ⑦ 1/2" COLD AND HOT WATER UP FOR FUTURE SINK. PROVIDE SHUT-OFF VALVES ABOVE CEILING AND CAP BELOW 2ND FLOOR.
- ⑧ 1/2" COLD AND HOT WATER DOWN.
- ⑨ 3" VENT UP.
- ⑩ 4" WASTE BELOW FLOOR. CONNECT TO NEAREST EXISTING WASTE BELOW FLOOR. SAW CUT FLOOR AS REQUIRED AND REPAIR BACK TO ORIGINAL CONDITION AFTER INSTALLATION. FIELD VERIFY LOCATION AND CONDITION OF EXISTING SAN SEWER AND COORDINATE ALL SAW CUTTING WITH ARCHITECT.
- ⑪ ROUTE NEW COLD WATER, HOT WATER, AND HOT WATER RETURN IN SAME LOCATION AS EXISTING PIPE.
- ⑫ 2" VENT PIPE FROM BELOW. TIE IN TO EXISTING VENT THRU ROOF 2" OR LARGER.



**3 CLASSROOM WING FIRST FLOOR PLAN - PLUMBING**  
1/8" = 1'-0"



**4 CLASSROOM WING SECOND FLOOR PLAN - PLUMBING**  
1/8" = 1'-0"



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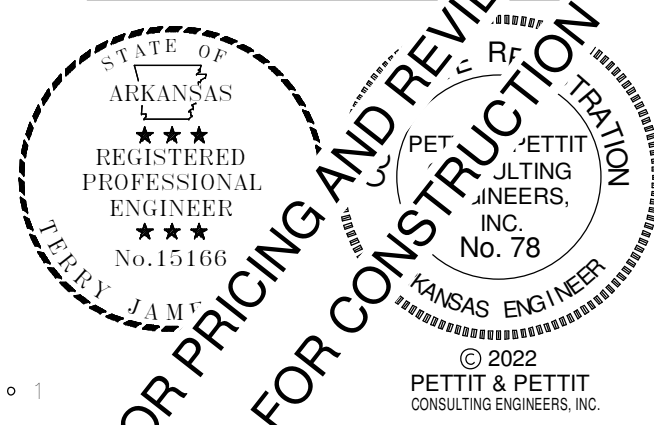
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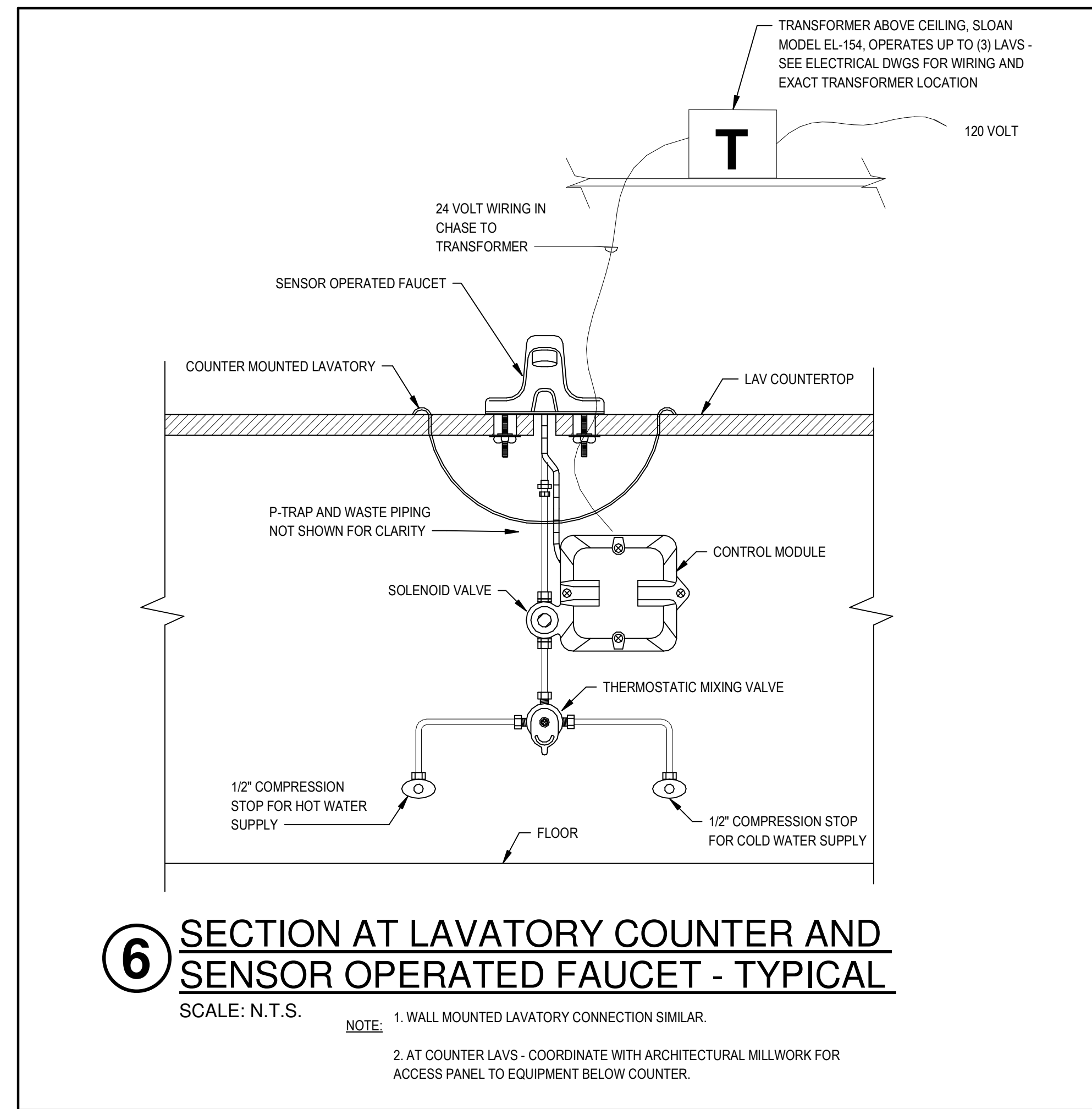
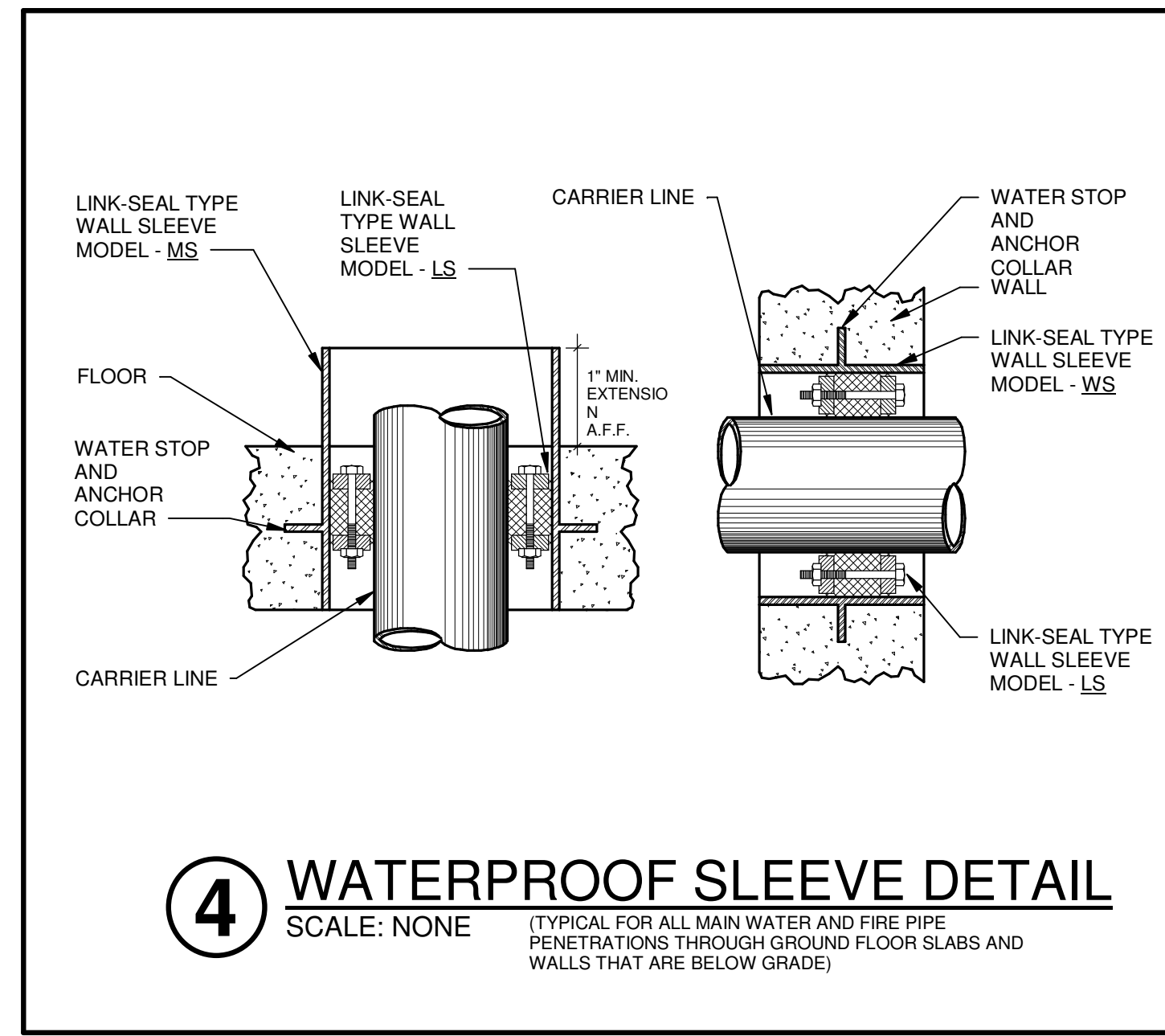
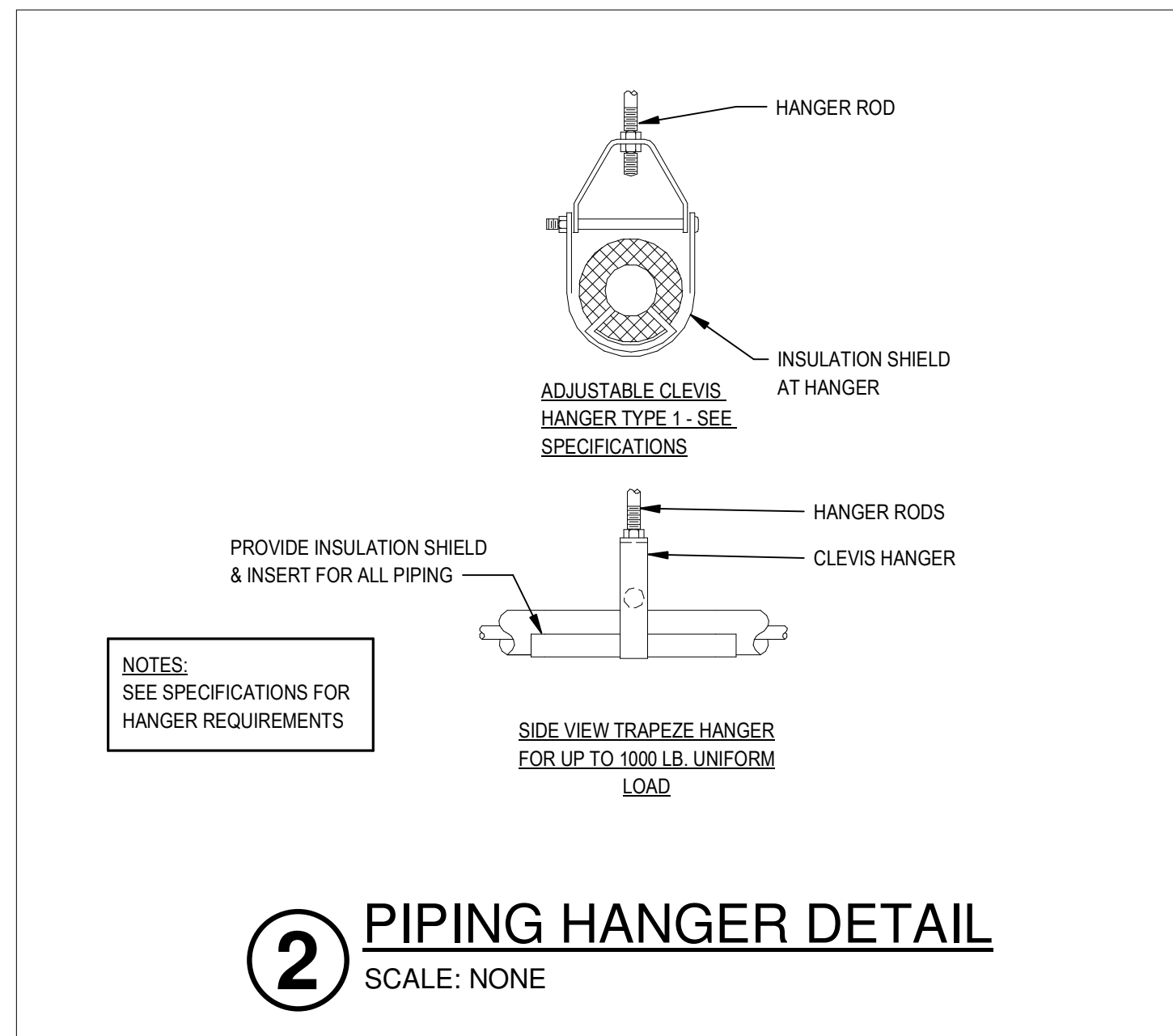
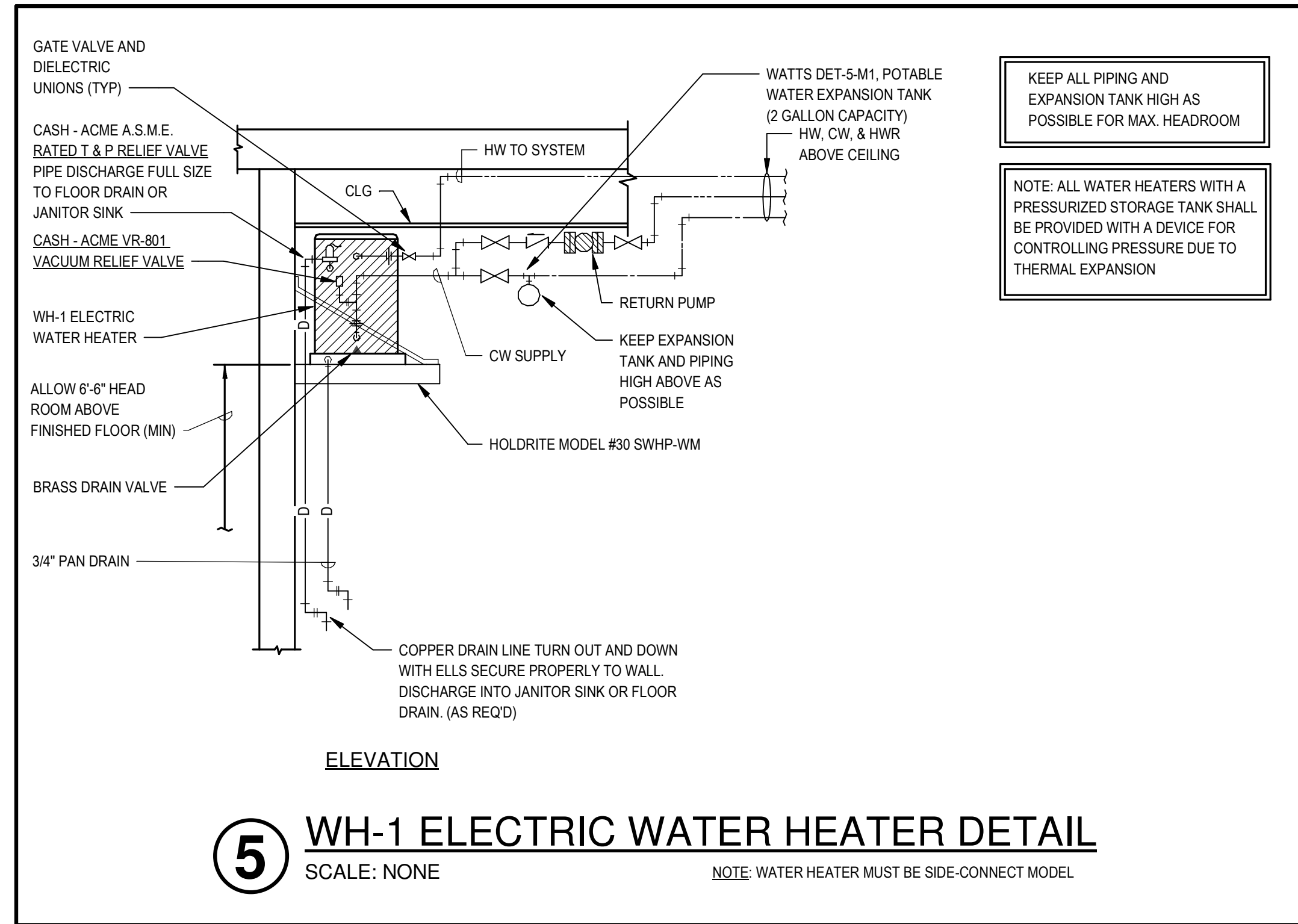
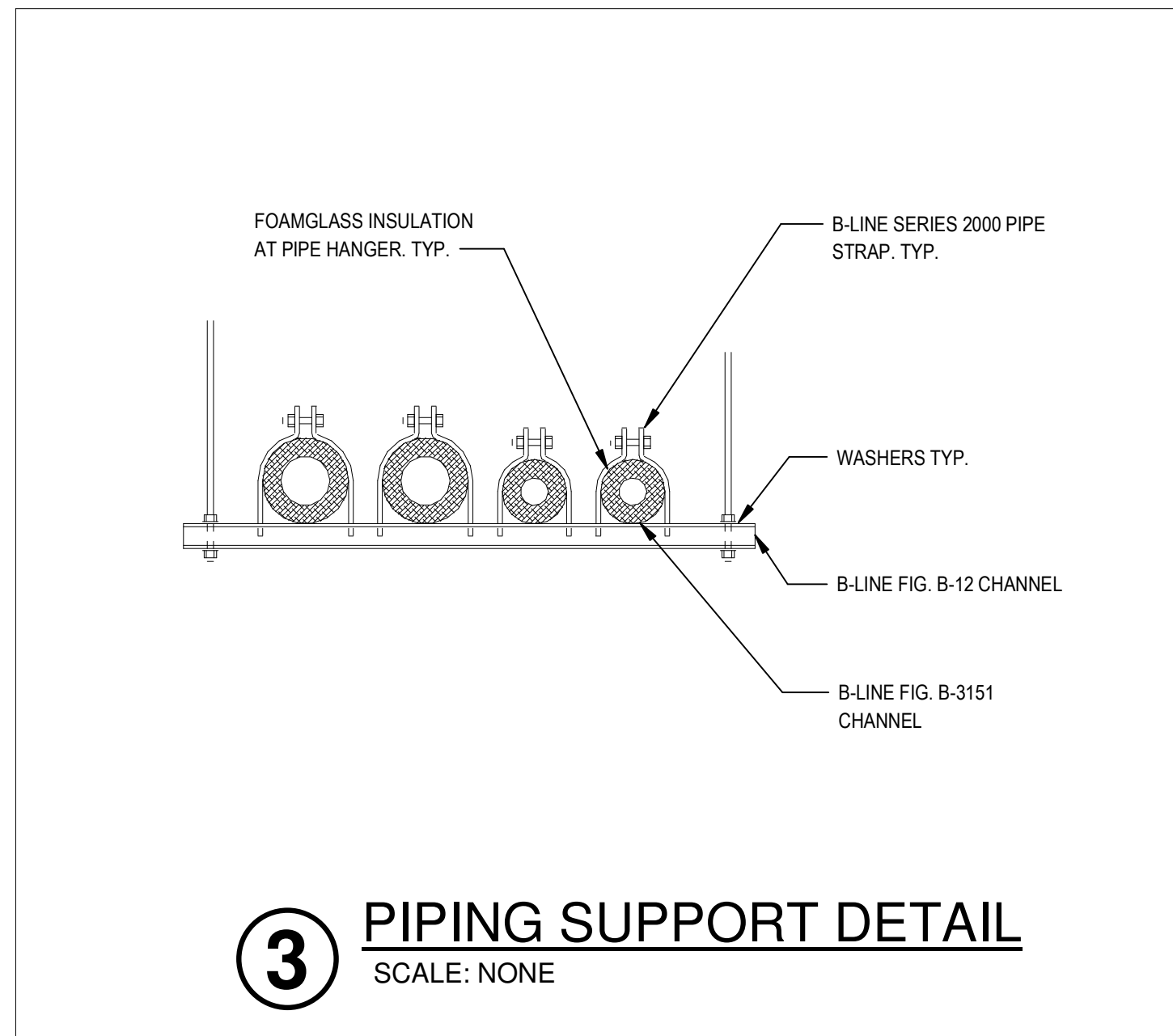
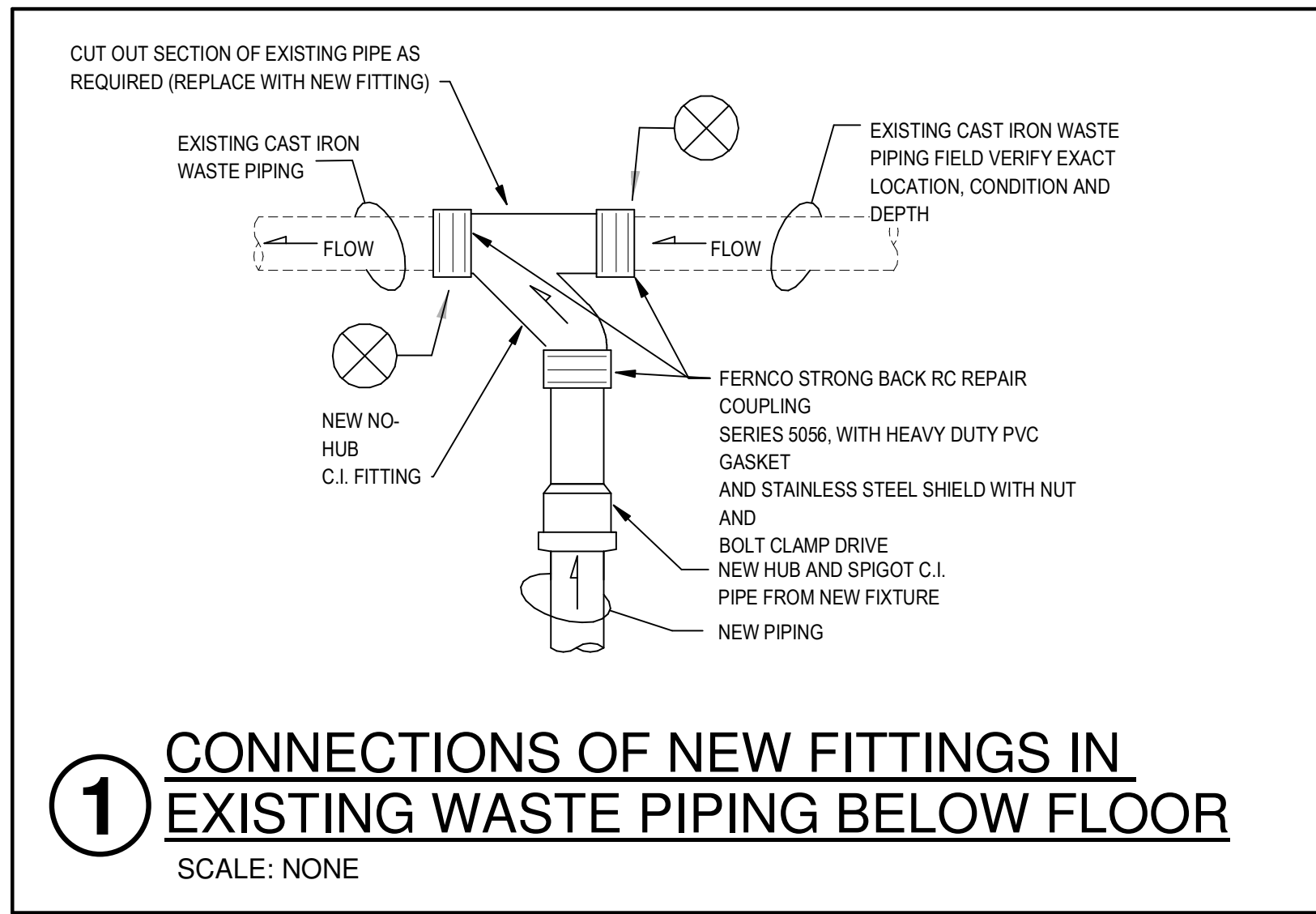
FLOOR PLANS -  
PLUMBING

**P1.01**



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**NOT FOR CONSTRUCTION**

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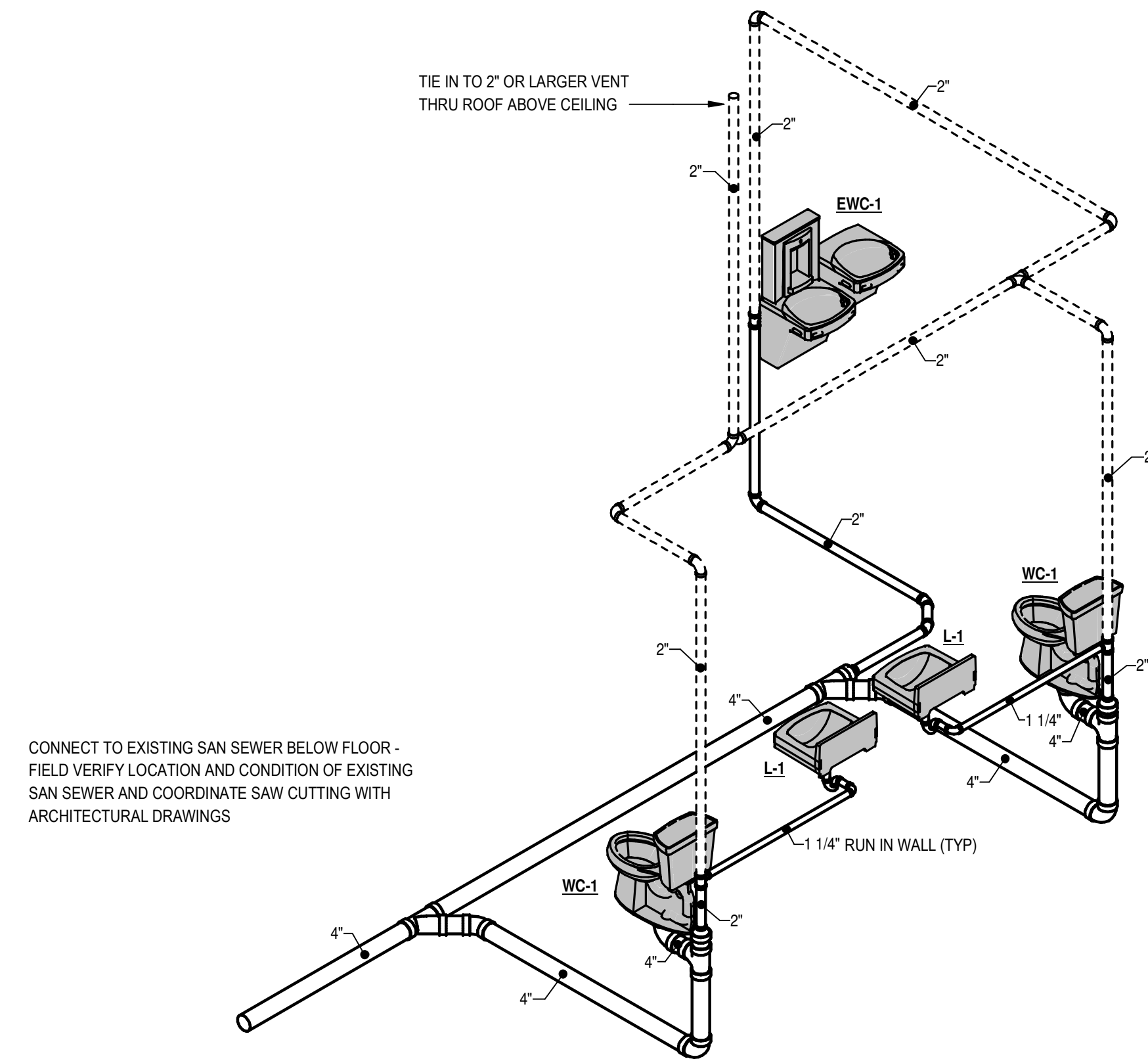
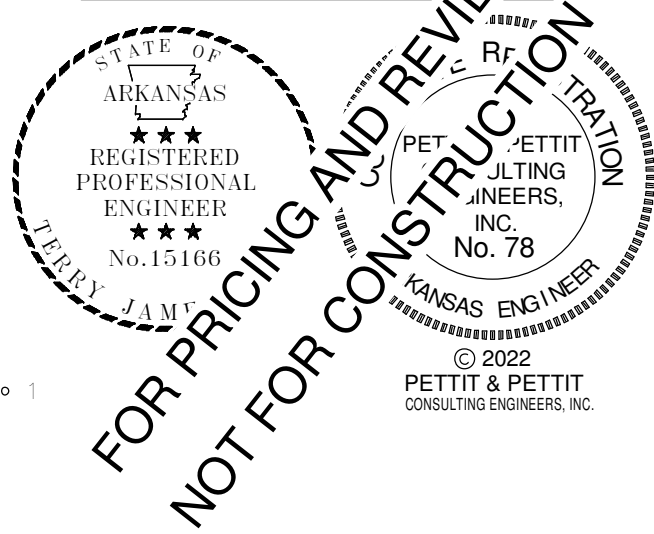
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PLUMBING DETAILS

**P2.01**



**WASTE & VENT RISER**

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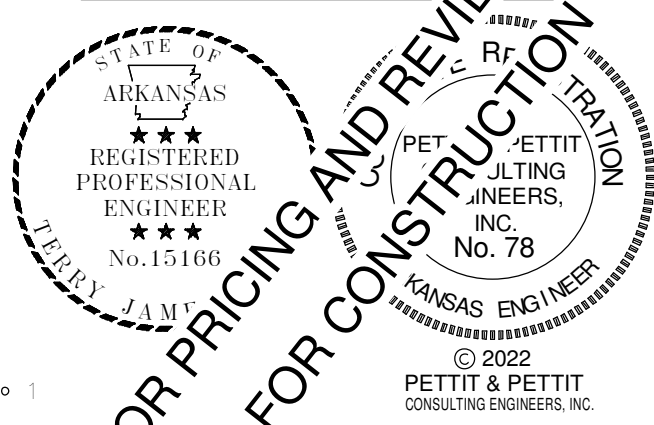
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PLUMBING RISERS

**P3.01**





FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
—SP—	FIRE SPRINKLER PIPING
—DSP—	DRY PIPE FIRE SPRINKLER PIPING
—F—	FIRE PROTECTION WATER SUPPLY
●	BRASS SPRINKLER HEAD (UPRIGHT OR PENDANT AS REQ'D)
●	RECESSED PENDANT SPRINKLER HEAD IN CEILING
⊙	EXTRA LARGE ORIFICE TYPE SPRINKLER HEAD
●	DRY PENDENT ON DROP SPRINKLER HEAD
⊙	CONCEALED TYPE SPRINKLER HEAD
▶	HORIZONTAL SIDEWALL SPRINKLER HEAD
✕	EXISTING SPRINKLER HEAD
⊞	SUPERVISED INDICATING TYPE VALVE (O.S.&Y)
⊞	FLOW SWITCH
▨	RECESSED FIRE HOSE CABINET
▨	RECESSED FIRE EXTINGUISHER CABINET
F.E.	FIRE EXTINGUISHER
F.H.C.	FIRE HOSE CABINET
O.S.&Y.	OUTSIDE SCREW & YOKE
F.E.C.	FIRE EXTINGUISHER CABINET
⊞	FIRE HYDRANT
⊞	FIRE DEPARTMENT CONNECTION

AUTO FIRE SPRINKLER LEGEND (THIS LEGEND FOR ALL SHEETS)	
▨	SINGLE CROSSHATCHING DENOTES BOUNDARIES OF AREAS THAT REQUIRE AUTOMATIC FIRE SPRINKLER SYSTEM.
▨	DOUBLE CROSSHATCHING DENOTES BOUNDARIES OF AREAS THAT REQUIRE AUTOMATIC FIRE SPRINKLER SYSTEM, BUT WITH NOTED EXCEPTION, AND OR, ADDITION.

FIRE PROTECTION GENERAL NOTES	
1.	THE BUILDING RENOVATION SHALL BE COMPLETELY SPRINKLED. SEE HVAC AND ELECTRICAL DRAWINGS FOR GRILLES, LIGHTS, ETC. AND COORDINATE SPRINKLER HEAD LOCATION AS REQUIRED. THESE SYSTEMS SHALL BE HYDRAULICALLY DESIGNED TO MEET NFPA 13, STATE, AND LOCAL CODES. IN FINISHED AREAS LOCATE SPRINKLER HEADS IN CENTER OF LAY-IN TILE CEILING AND LOCATE SYMMETRICALLY IN ROOMS AND SPACES AS FAR AS PRACTICAL.
2.	PROVIDE SPRINKLER HEADS AT TOP AND BOTTOM FLOORS OF ALL LARGE MECHANICAL CHASES (AS REQUIRED BY CODE).
3.	SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE EXTINGUISHER CABINETS, ETC.
4.	COORDINATE FIRE SPRINKLER ZONING WITH ELECTRICAL DRAWINGS AND FIRE ALARM SYSTEM.
5.	ALL VALVES MUST BE ACCESSIBLE, IF INSTALLED ABOVE A FIXED CEILING, ACCESS DOORS SHALL BE INSTALLED.
6.	ALL SPRINKLER BRANCHES DOWNSTREAM OF AN ALARM SHALL HAVE A 1" MINIMUM TEST DRAIN LINE WITH EASILY ACCESSIBLE VALVE, DISCHARGE DRAIN TO AN APPROPRIATE LOCATION, THRU OUTSIDE WALL IF POSSIBLE, OR TO A LARGE FLOOR DRAIN IN A MECHANICAL ROOM, ETC.
7.	ALL SPRINKLER PIPING SHALL SLOPE TO LOW POINTS WITH VALVES FOR DRAINING.
8.	ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE, EXCEPT IN SPECIAL AREAS.
9.	SPRINKLER HEADS SHALL BE LOCATED 15' (OR LESS) ON CENTER - EXTENDED COVERAGE HEADS NOT ACCEPTABLE.
10.	PROVIDE SYSTEM TO NFPA 13 COVERAGE AND OCCUPANCY REQUIREMENTS.
11.	WATER SUPPLY - FIELD VERIFY EXISTING CONDITIONS.
12.	INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.
13.	VERIFY THAT THE EXISTING FIRE DEPARTMENT CONNECTION IS ACCEPTABLE AS IS EVEN AFTER THIS SPRINKLER ADDITION IS CONNECTED.
14.	ALL PIPING TO BE SCHEDULE 40 STEEL.
15.	ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED - CLEAN, PRIME, AND PAINT WITH (2) COATS EPOXY PAINT (COLOR AS SELECTED BY ARCHITECT) FIRE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR.
16.	ALL SPRINKLER HEADS IN LAY-IN CEILING SHALL HAVE FLEXIBLE DROPS TO COMPLY WITH APPLICABLE SEISMIC DESIGN CATEGORY - FLEXIBLE SPRINKLER HEADS MUST BE "FLEXHEAD INDUSTRIES." (NO SUBSTITUTIONS)
17.	ALL SPRINKLER HEADS MUST BE CENTERED IN CEILING TILES OF LAY-IN CEILINGS.

FIRE PROTECTION NOTES
A COMPLETE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AS A WET SPRINKLER SYSTEM. BACKFLOW PROTECTION SHALL BE PROVIDED AS REQUIRED BY ARKANSAS DEPARTMENT OF HEALTH.

FIRE SPRINKLER DESIGN NOTES
ESTIMATED AREA/DENSITY DEMANDS PLUS HOSE WATER LIGHT HAZARD - .10 GPM x 1500 SQ. FT. x OVERAGE + 100 GPM HOSE WATER = 272.5 GPM. ORDINARY HAZARD (GROUP 1) - 0.15 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSE WATER = 509.0 GPM. ORDINARY HAZARD (GROUP 2) - 0.25 GPM x 1500 SQ. FT. x OVERAGE + 250 GPM HOSE WATER = 595.0 GPM. NOTE: REDUCTION AREA ADJUSTMENTS FOR QUICK RESPONSE SPRINKLER HEADS AS NOTED IN NFPA 13 WILL BE ALLOWED. THE CONTRACTOR MUST VERIFY AND COORDINATE EXACT DESIGN REQUIREMENTS. FIRE FLOW TEST - VERIFY IF REQUIRED

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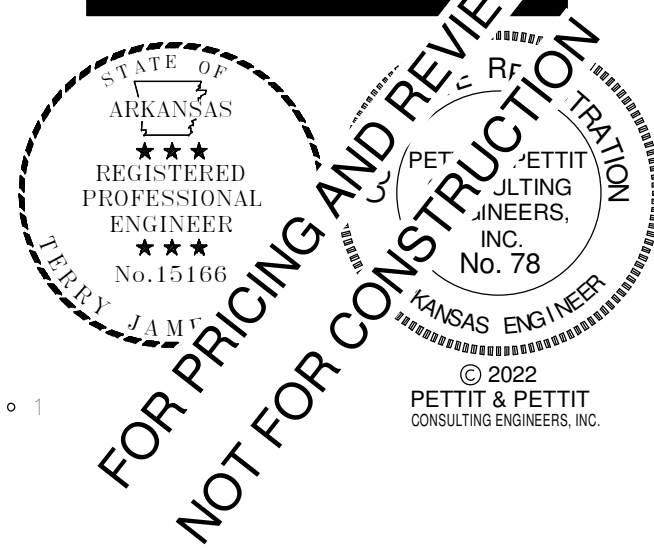
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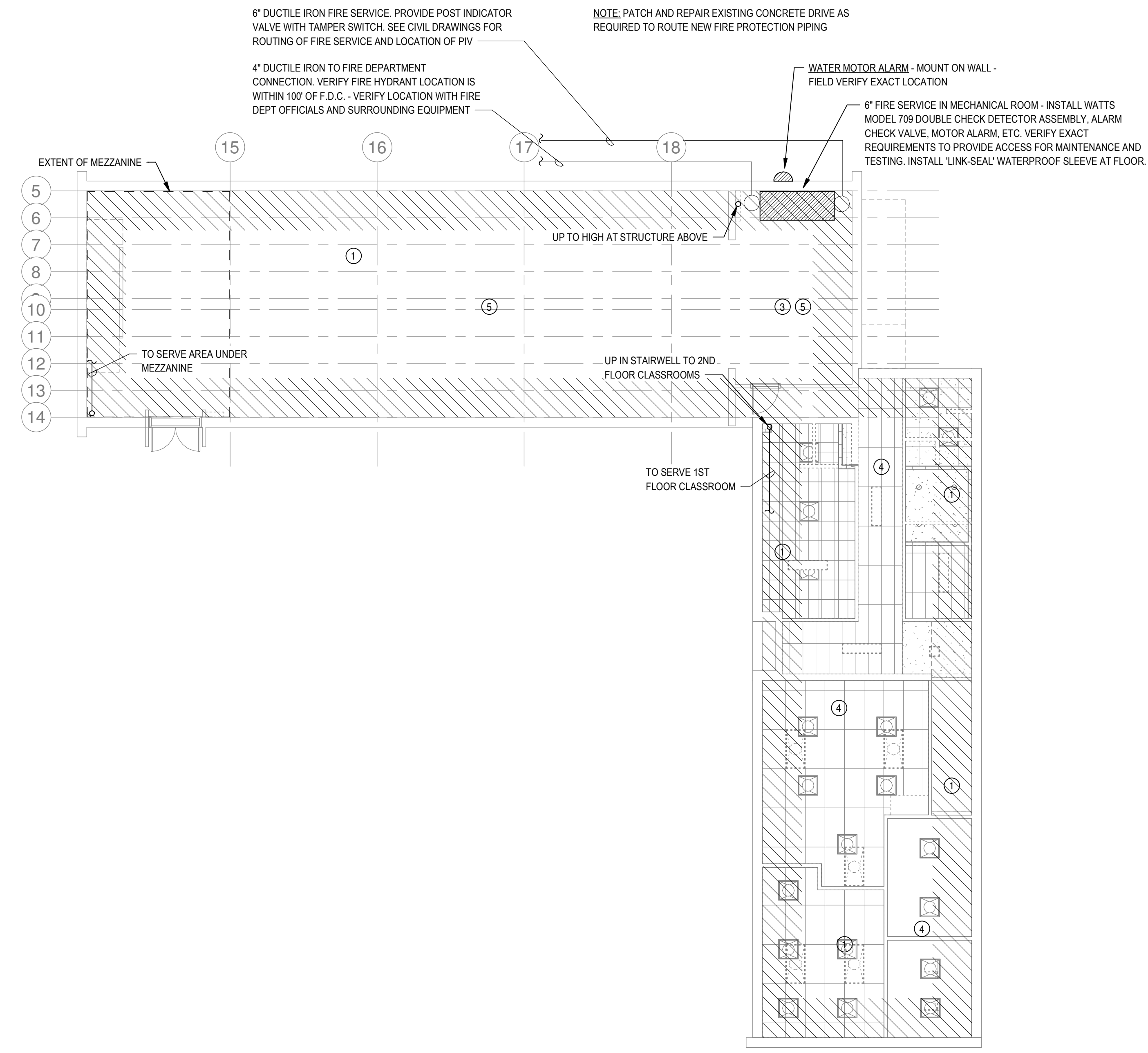
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FIRE PROTECTION  
GENERAL NOTES  
AND LEGENDS

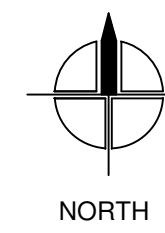
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- FIRE PROTECTION KEYED NOTES**
- ① THESE DESIGNATED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM OF STANDARD WET TYPE. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.
  - ② FIRE SPRINKLER HEADS AROUND ELECTRICAL PANELS (SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS) SHALL HAVE DEFLECTOR SHIELDS TO AVOID DIRECT WATER SPRAY ON EQUIPMENT.
  - ③ IN MECHANICAL AND ELECTRICAL ROOMS (ESPECIALLY ROOMS WITHOUT CEILINGS) COORDINATE CAREFULLY THE EXACT LOCATIONS OF HEADS. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS TO ENSURE THAT HEADS ARE NOT INSTALLED DIRECTLY ABOVE DUCTWORK, EQUIPMENT, ETC.
  - ④ SPRINKLERS IN LAY-IN AND GYP BD CEILINGS TO BE CONCEALED SPRINKLER HEADS. COLOR AS SELECTED BY ARCHITECT.
  - ⑤ SPRINKLERS IN AREAS WITH NO CEILING TO BE UPRIGHT SPRINKLER HEADS.



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① 1st Floor RCP - Fire Protection  
1/8" = 1'-0"

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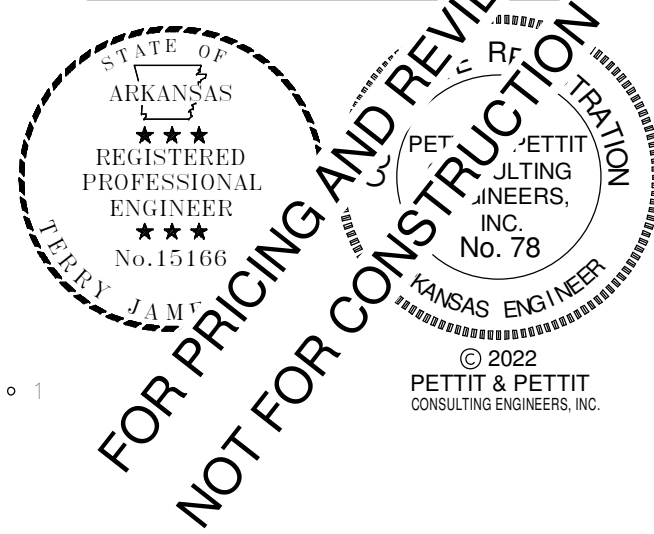
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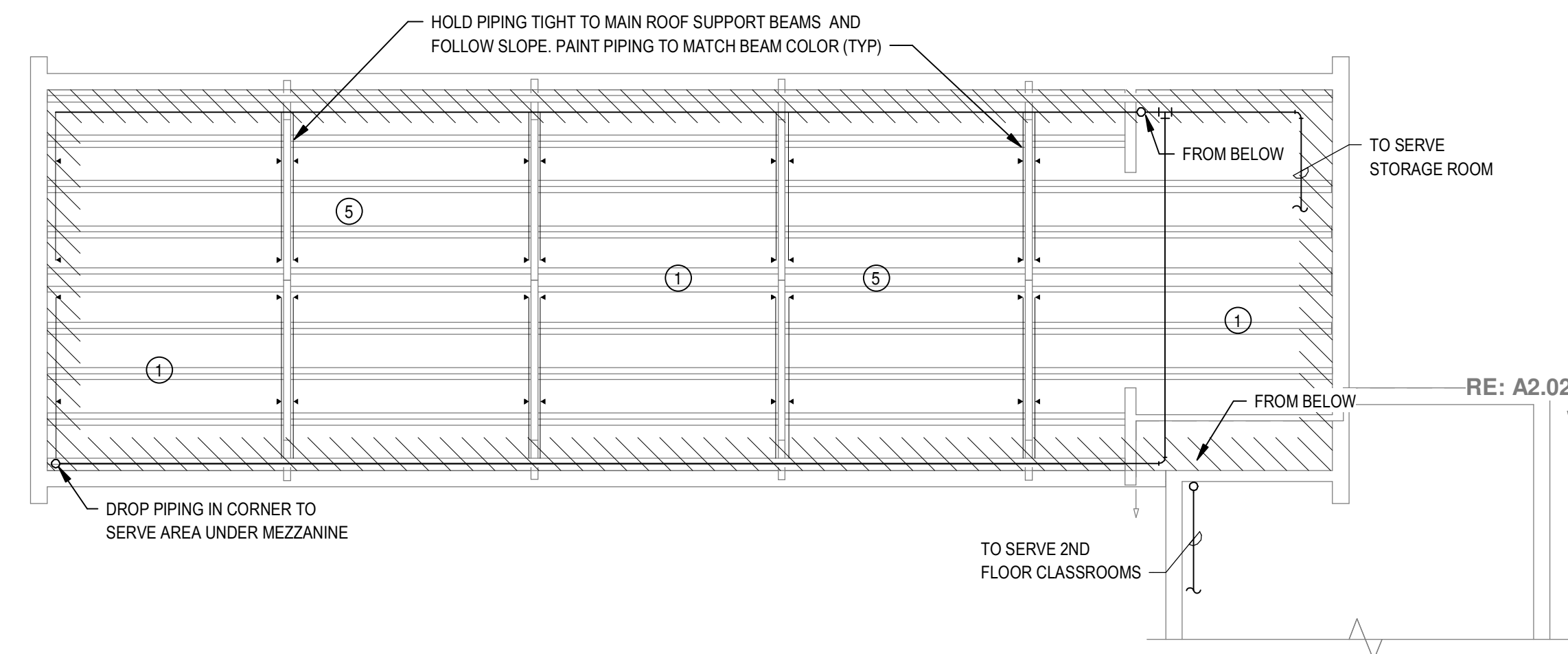
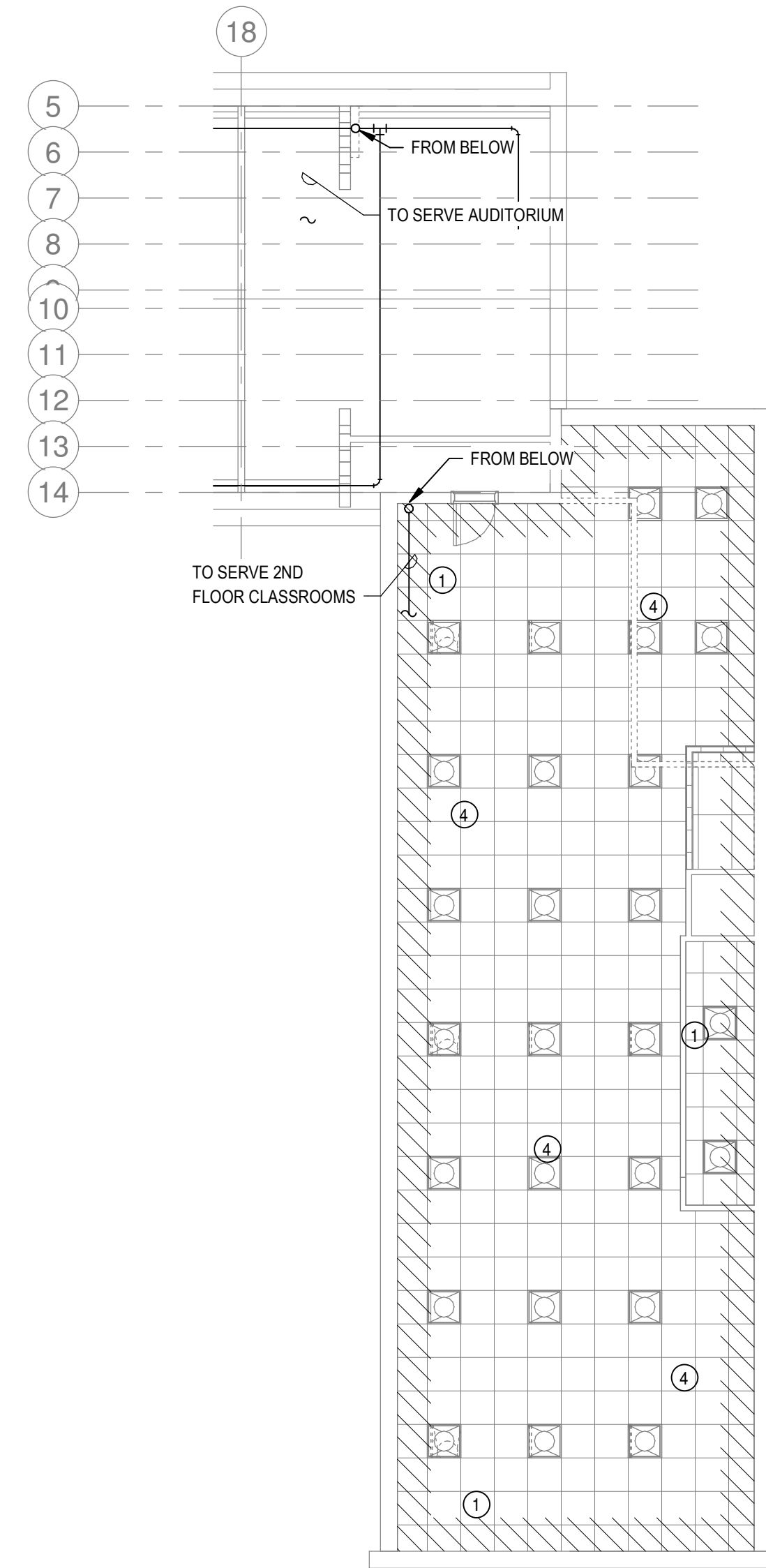
FLOOR PLAN - FIRE PROTECTION

FP1.01



**FIRE PROTECTION KEYED NOTES**

- ① THESE DESIGNATED AREAS SHALL BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM OF STANDARD WET TYPE. SEE GENERAL FIRE PROTECTION NOTES AND OTHER KEYED NOTES FOR SPECIAL AREA REQUIREMENTS.
- ② FIRE SPRINKLER HEADS AROUND ELECTRICAL PANELS (SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS) SHALL HAVE DEFLECTOR SHIELDS TO AVOID DIRECT WATER SPRAY ON EQUIPMENT.
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- ④ SPRINKLERS IN LAY-IN AND GYP BD CEILINGS TO BE CONCEALED SPRINKLER HEADS. COLOR AS SELECTED BY ARCHITECT.
- ⑤ SPRINKLERS IN AREAS WITH NO CEILING TO BE UPRIGHT SPRINKLER HEADS.



**2** 2nd Floor RCP - Fire Protection  
1/8" = 1'-0"  
NORTH

**1** Mezzanine Floor Plan RCP - Fire Protection  
1/8" = 1'-0"  
NORTH

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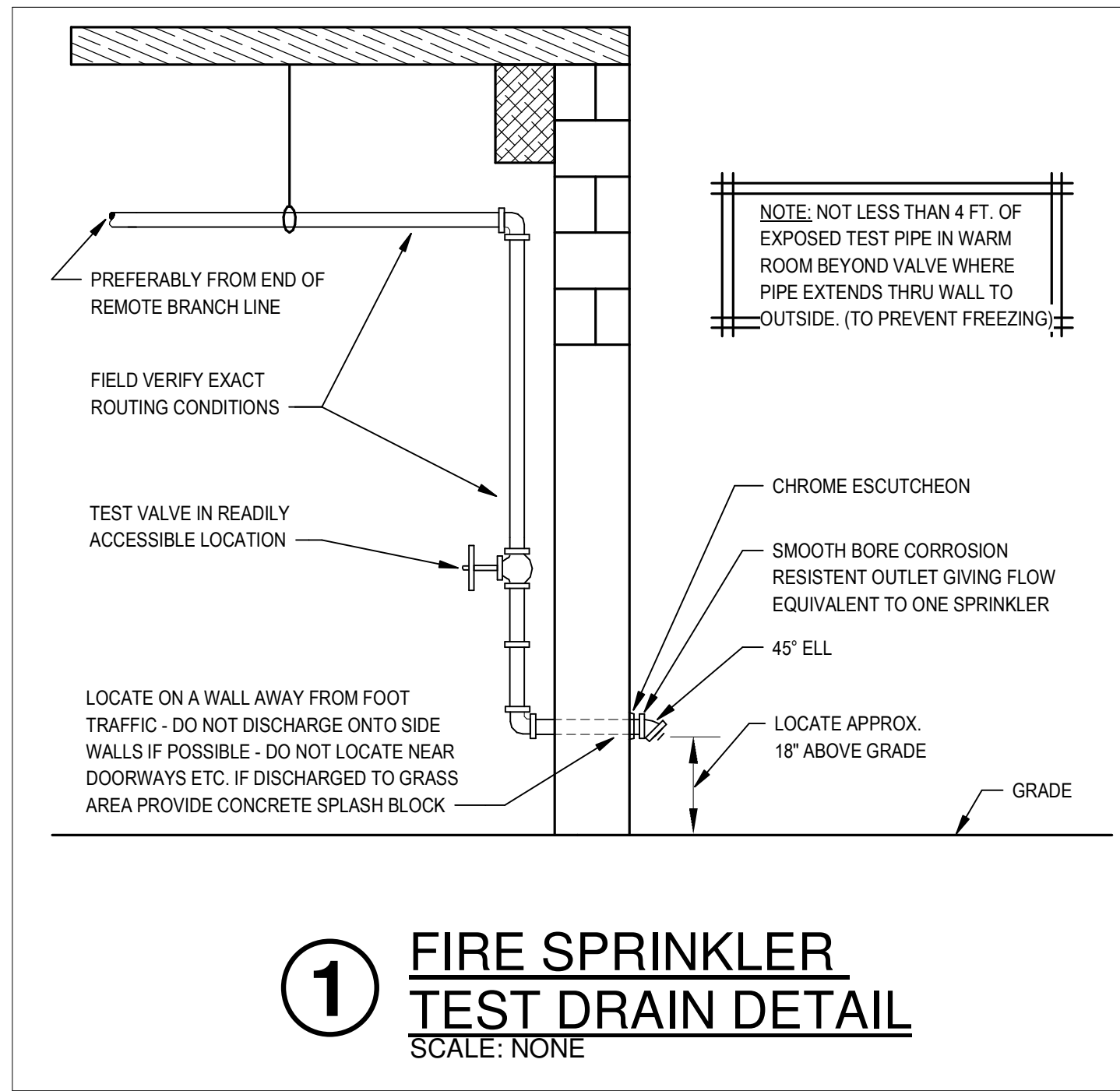
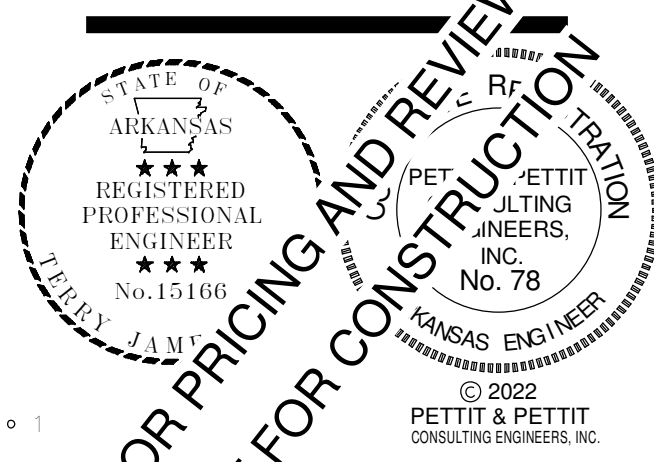
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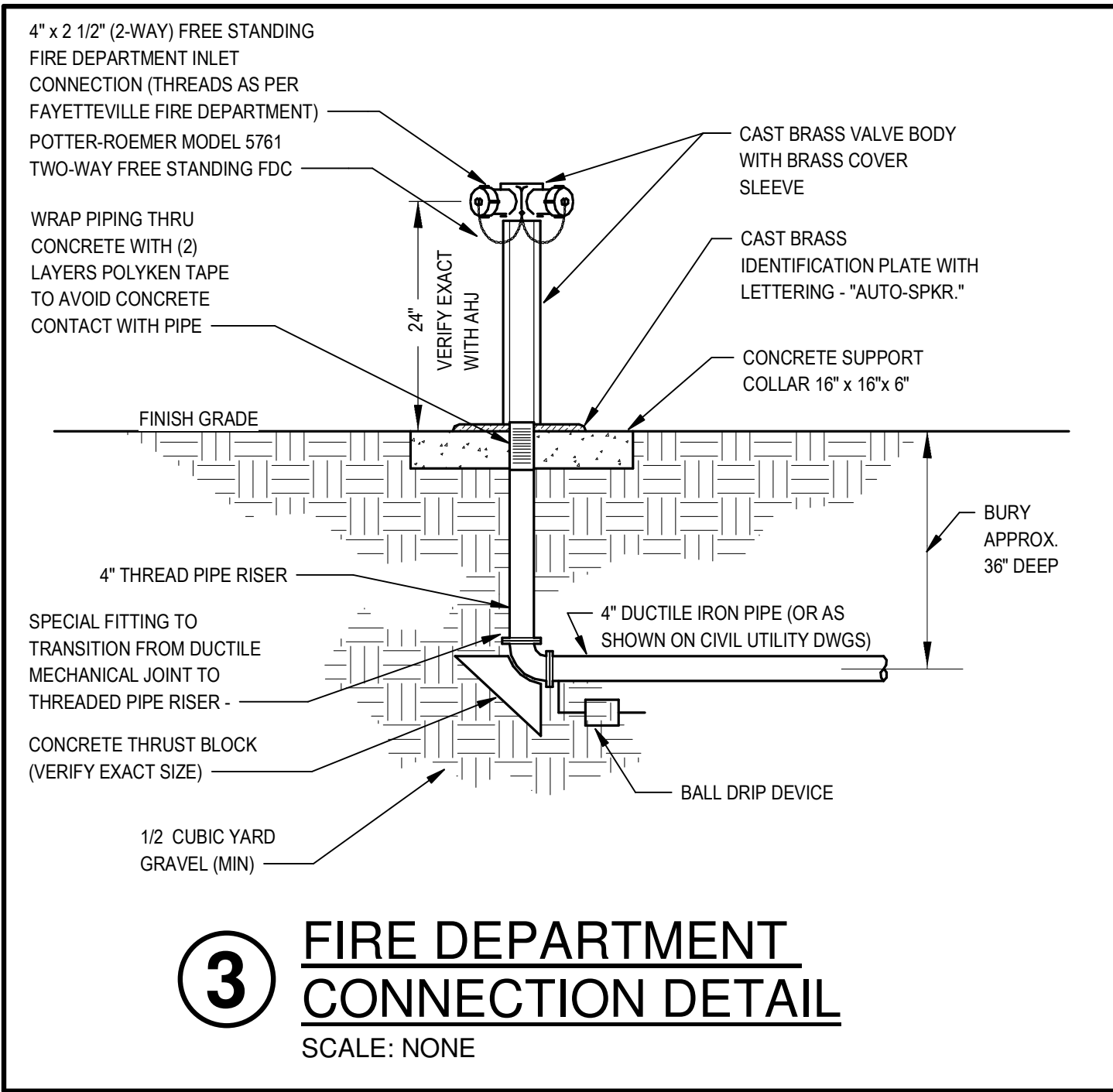
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FLOOR PLAN - FIRE PROTECTION

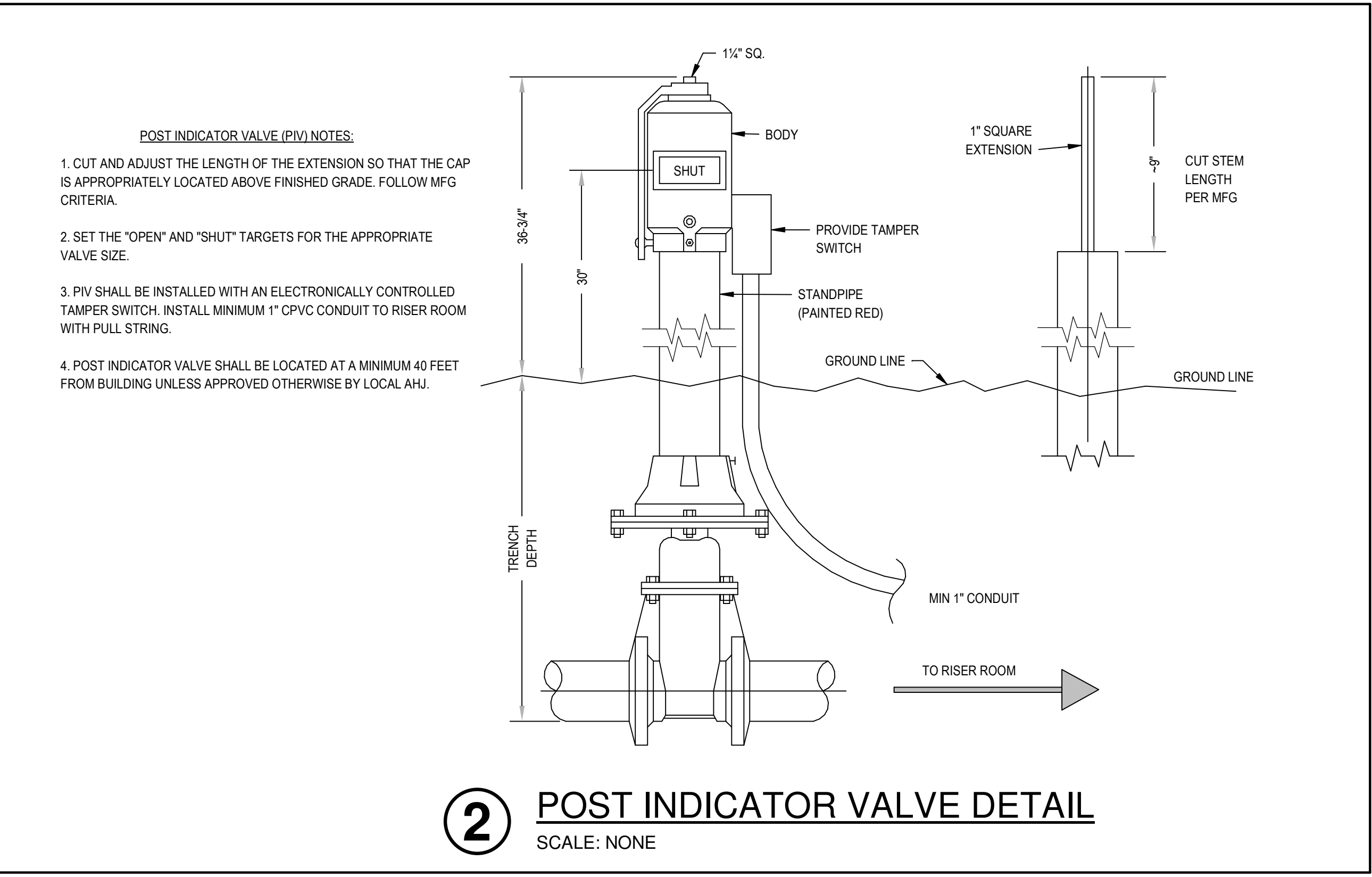
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**1** FIRE SPRINKLER TEST DRAIN DETAIL  
SCALE: NONE



**3** FIRE DEPARTMENT CONNECTION DETAIL  
SCALE: NONE



- POST INDICATOR VALVE (PIV) NOTES:**
1. CUT AND ADJUST THE LENGTH OF THE EXTENSION SO THAT THE CAP IS APPROPRIATELY LOCATED ABOVE FINISHED GRADE. FOLLOW MFG CRITERIA.
  2. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
  3. PIV SHALL BE INSTALLED WITH AN ELECTRONICALLY CONTROLLED TAMPER SWITCH. INSTALL MINIMUM 1" CPVC CONDUIT TO RISER ROOM WITH PULL STRING.
  4. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 40 FEET FROM BUILDING UNLESS APPROVED OTHERWISE BY LOCAL AHJ.

**2** POST INDICATOR VALVE DETAIL  
SCALE: NONE

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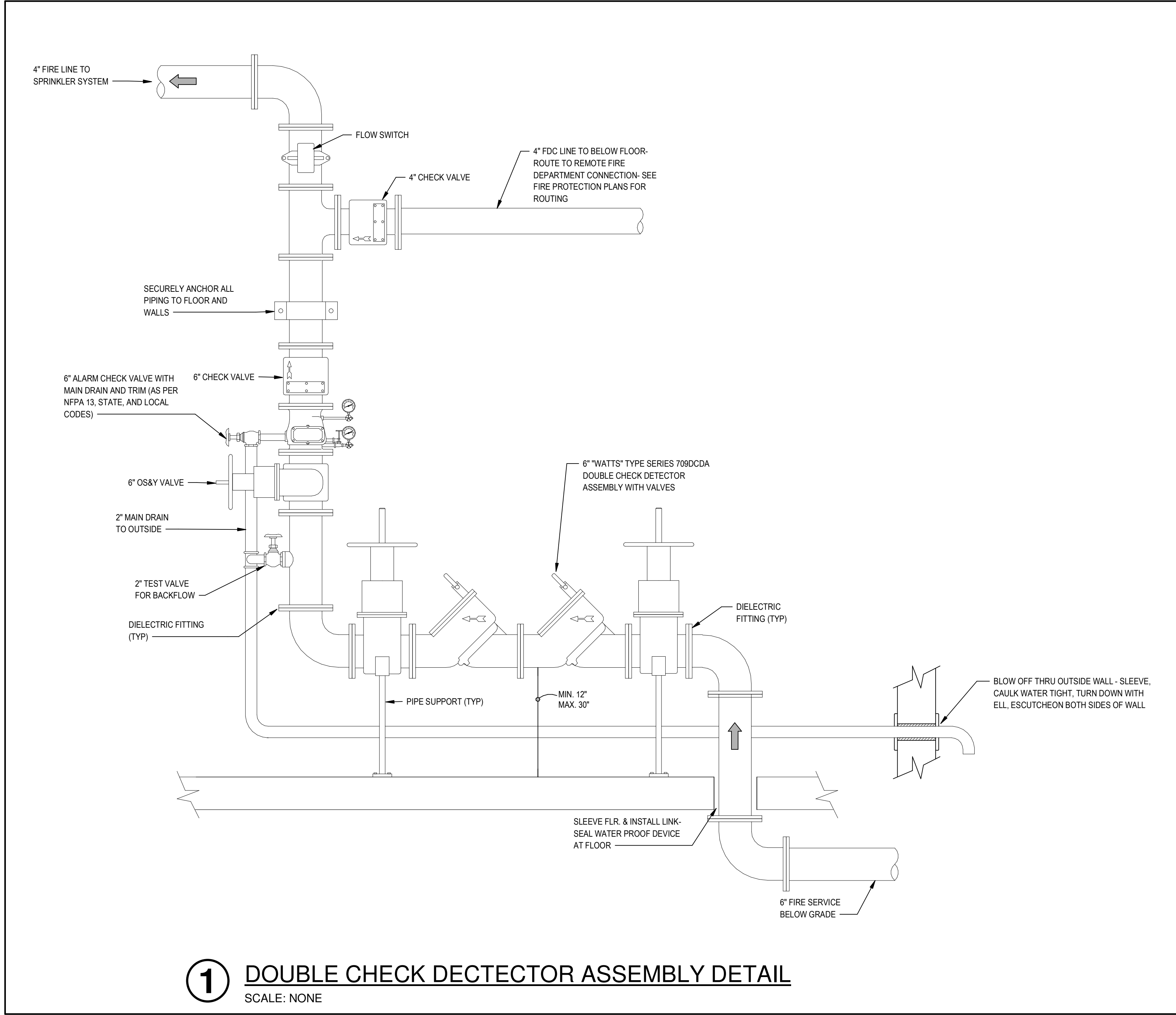
FIRE PROTECTION  
DETAILS

FP2.01



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**1** DOUBLE CHECK DETECTOR ASSEMBLY DETAIL  
SCALE: NONE

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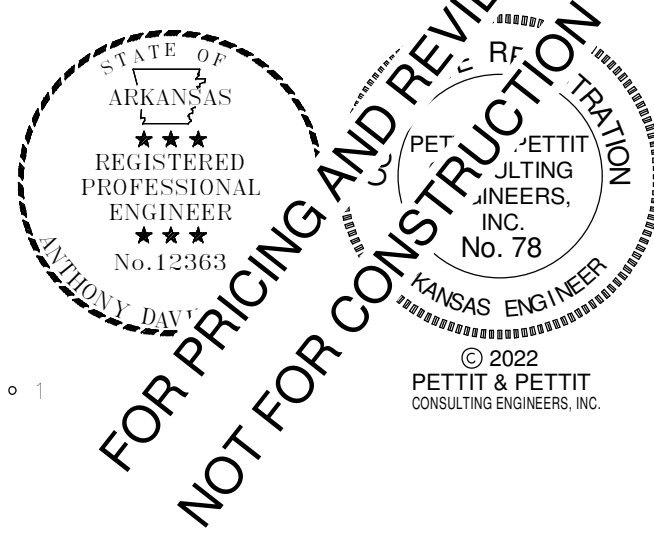
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FIRE PROTECTION  
DETAILS

**FP2.02**

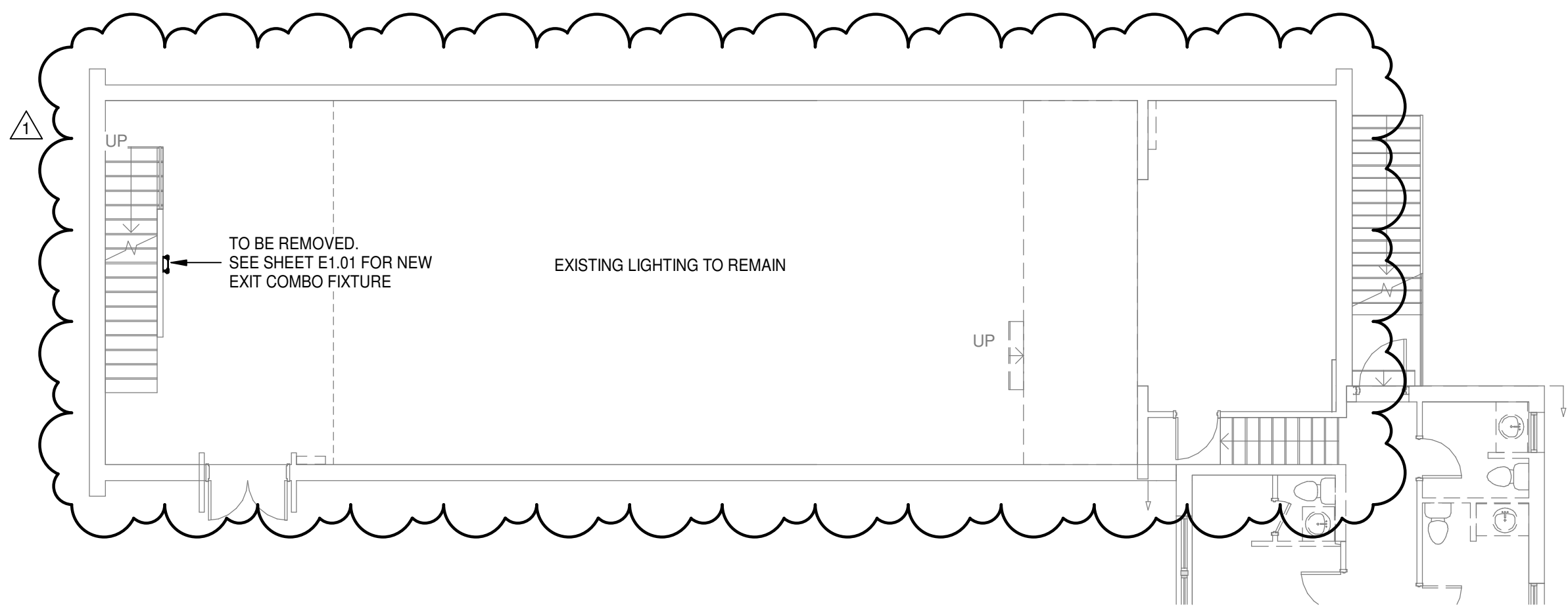


**GENERAL DEMOLITION NOTES**

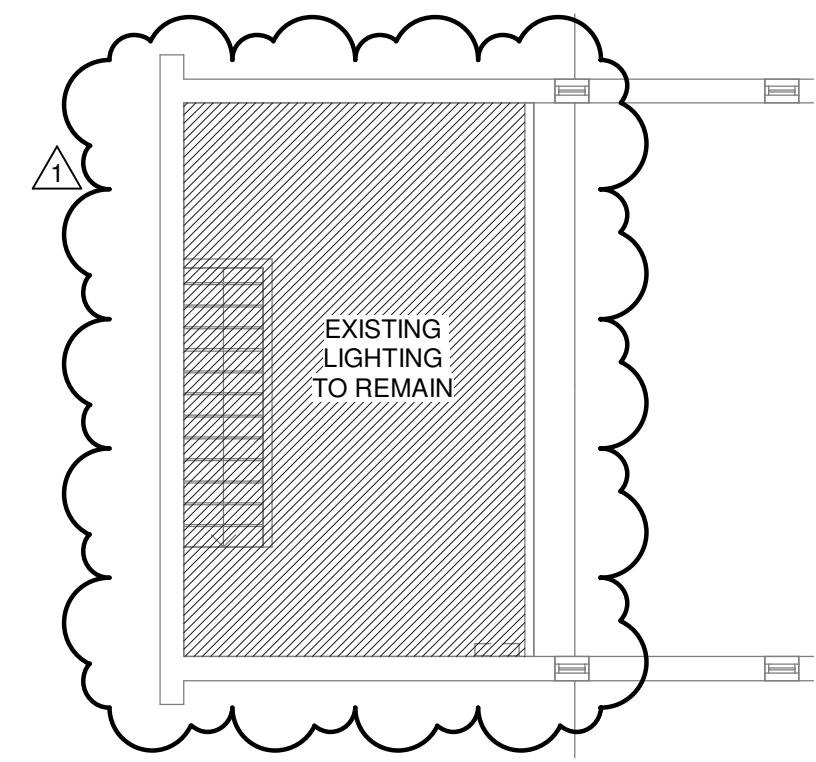
1. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BID.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION INDICATED ON THESE DRAWINGS. ALL WIRING DEVICES, LIGHT FIXTURES, WIRE, & CONDUIT THAT IS TO BE REMOVED SHALL BE STORED AS DIRECTED BY THE OWNER OR RELOCATED AS SHOWN ON THE NEW FLOOR PLAN. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED, AND ALL OUTAGES WHICH MAY RESULT SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE WORK.
3. ALL EXISTING BRANCH CIRCUITS NOT USED SHALL BE REMOVED BACK TO SERVING PANELBOARD. THE CIRCUIT BREAKERS SHALL BE LABELED AS SPARE.
4. DASHED LINES INDICATE EXISTING FIXTURES, EQUIPMENT, DEVICES, ETC., TO REMAIN UNLESS OTHERWISE NOTED.

**PROJECT DEMOLITION NOTES**

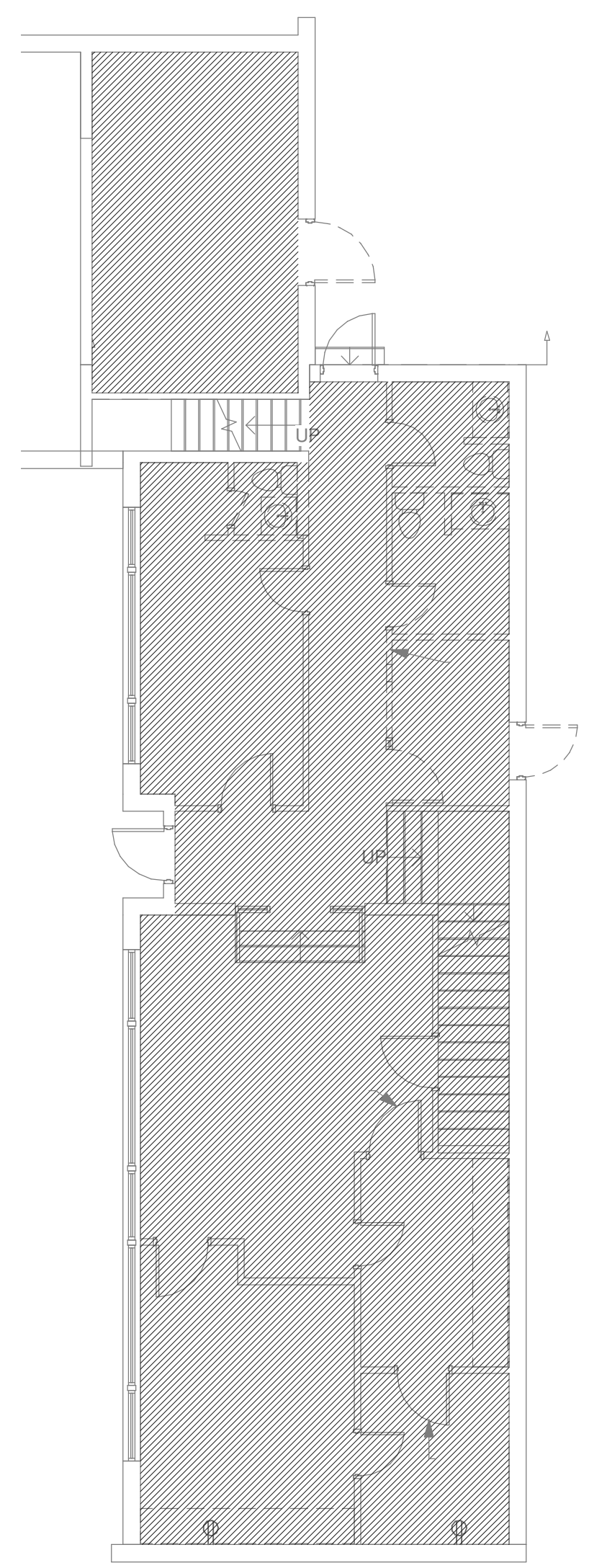
CONTRACTOR COMPLETELY REMOVE ALL CONDUIT, WIRE, AND ELECTRICAL DEVICES. THE BUILDING WILL HAVE A COMPLETELY NEW SYSTEM.



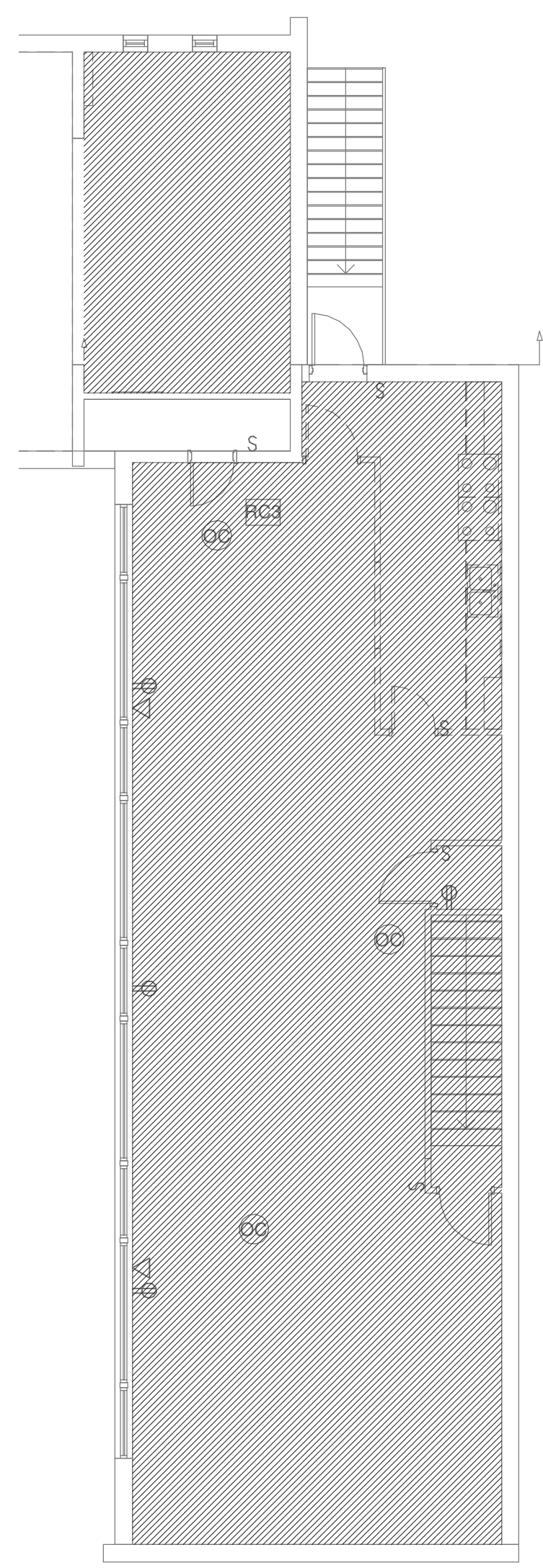
**1 DEMOLITION AUDITORIUM FLOOR PLAN - ELECTRICAL**  
1/8" = 1'-0"  
NORTH



**2 DEMOLITION MEZZANINE PLAN - ELECTRICAL**  
1/8" = 1'-0"  
NORTH



**3 DEMOLITION CLASSROOM WING FIRST FLOOR PLAN - ELECTRICAL**  
1/8" = 1'-0"  
NORTH



**4 DEMOLITION CLASSROOM WING SECOND FLOOR PLAN - ELECTRICAL**  
1/8" = 1'-0"  
NORTH

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DEMOLITION PLANS  
- ELECTRICAL

**ED0.01**



**LIGHTING KEYED NOTES**

- ① PROVIDE MARK DRIVER BOX AS REQUIRED BY MANUFACTURER.
- ② PROVIDE AND INSTALL 0-10V DIMMING WIRING TO THE SPACE.

**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
3. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER THW, THHN, THWN, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
4. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED.
5. PULL ALL THE CONDUCTORS THROUGH RACEWAY AT THE SAME TIME.
6. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. SEE SPECS FOR CONDUIT REQUIREMENTS. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
7. 6'-0" MAXIMUM LENGTH ON FLEXIBLE CONDUIT.
8. USE COMPRESSION FITTINGS ON CONDUIT, SET SCREW FITTINGS ARE NOT ALLOWED.
9. PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.
10. LABEL ALL CIRCUITS ON PANEL SCHEDULES.
11. TURN ALL UNUSED CIRCUIT BREAKERS TO OFF POSITION.
12. FIRE PROOF ALL PENETRATIONS MADE THROUGH FIRE RATED WALLS.
13. ALL DEVICES SHALL BE RATED 20 AMP MINIMUM. VERIFY COLOR WITH ARCHITECT.
14. CONNECT DEVICES BY WRAPPING WIRE AROUND SCREW TERMINAL IN A CLOCKWISE DIRECTION AND TIGHTEN SCREW. BACK-CONNECTED SPRING DEVICES ARE NOT ALLOWED.
15. ALL BOXES SHALL BE INDEPENDENTLY SUPPORTED TO THE BUILDINGS STRUCTURE.
16. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL ELEVATIONS AND MILLWORK DETAILS FOR EXACT LOCATIONS OF ALL WIRING DEVICES AND LIGHT FIXTURES.
17. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LAY-IN LIGHT FIXTURES.
18. THE SPECIFICATIONS ARE AS BINDING ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
19. ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
20. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTOR BEING INSTALLED.
21. PROVIDE TAMPER RESISTANT DEVICES AS REQUIRED BY CODE.
22. CONTRACTOR SHALL ADJUST WIRE SIZE FOR VOLTAGE DROP.

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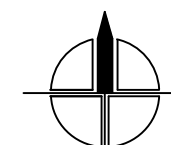
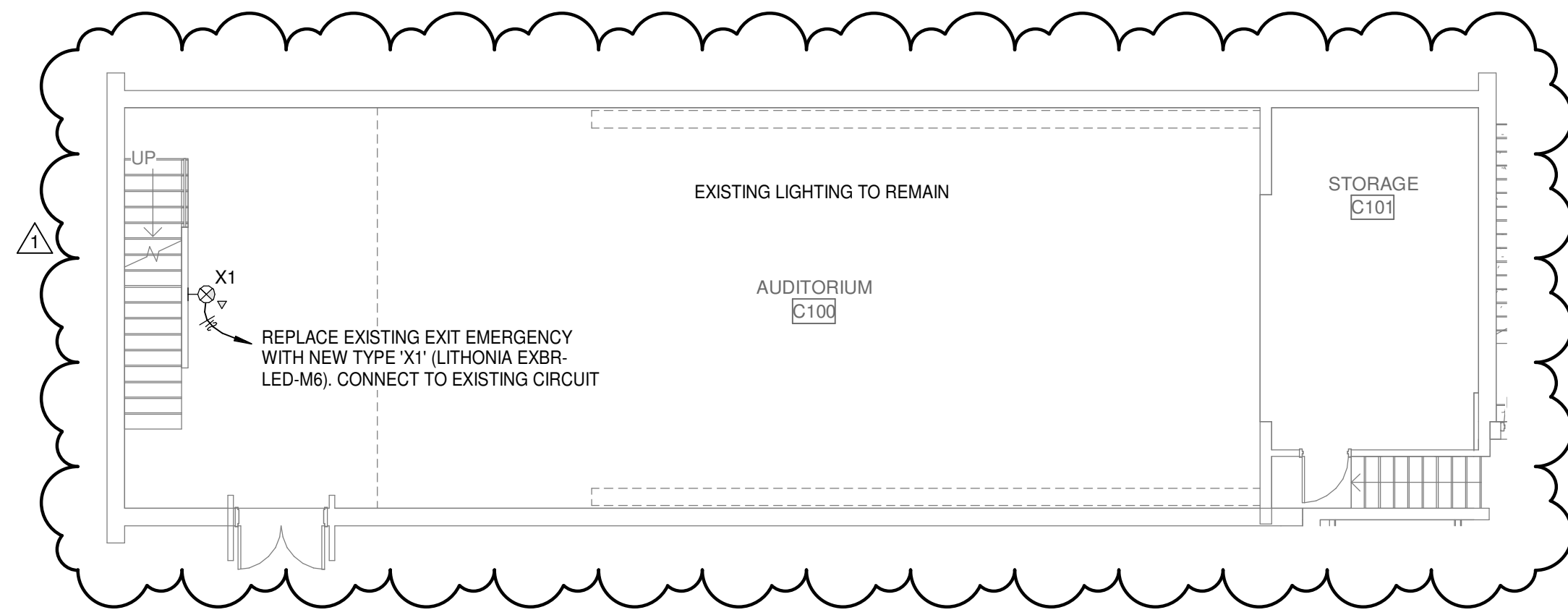
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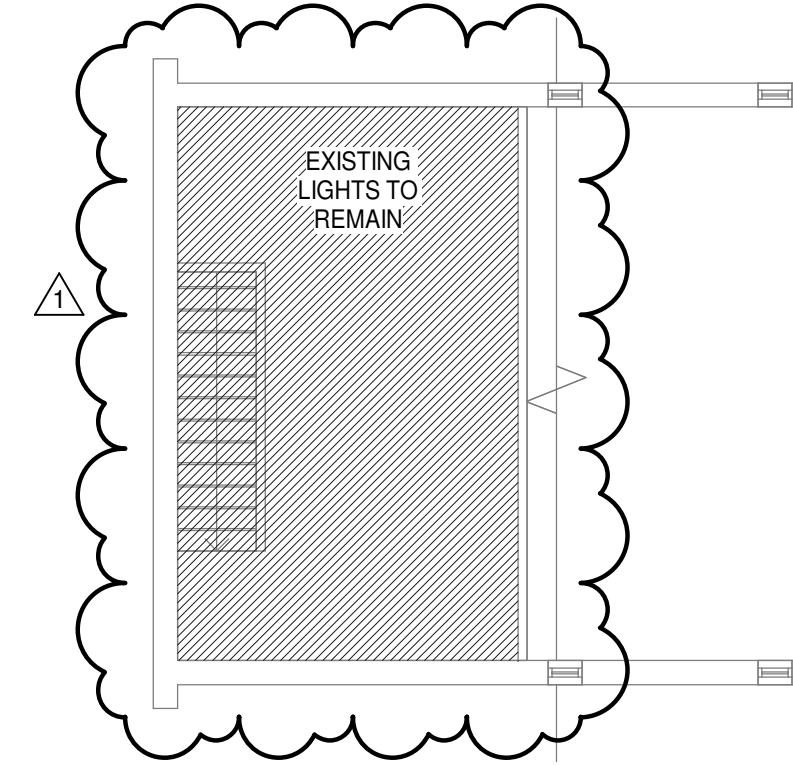
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FLOOR PLANS -  
LIGHTING

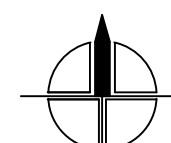
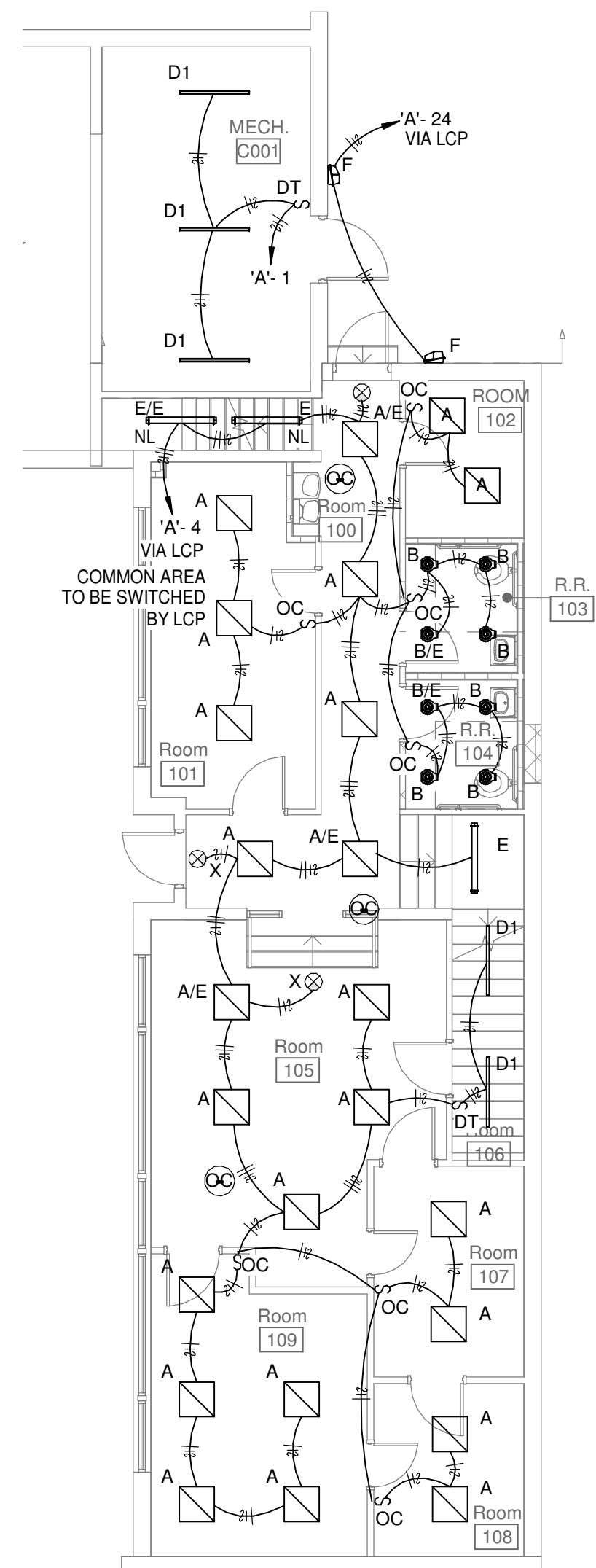
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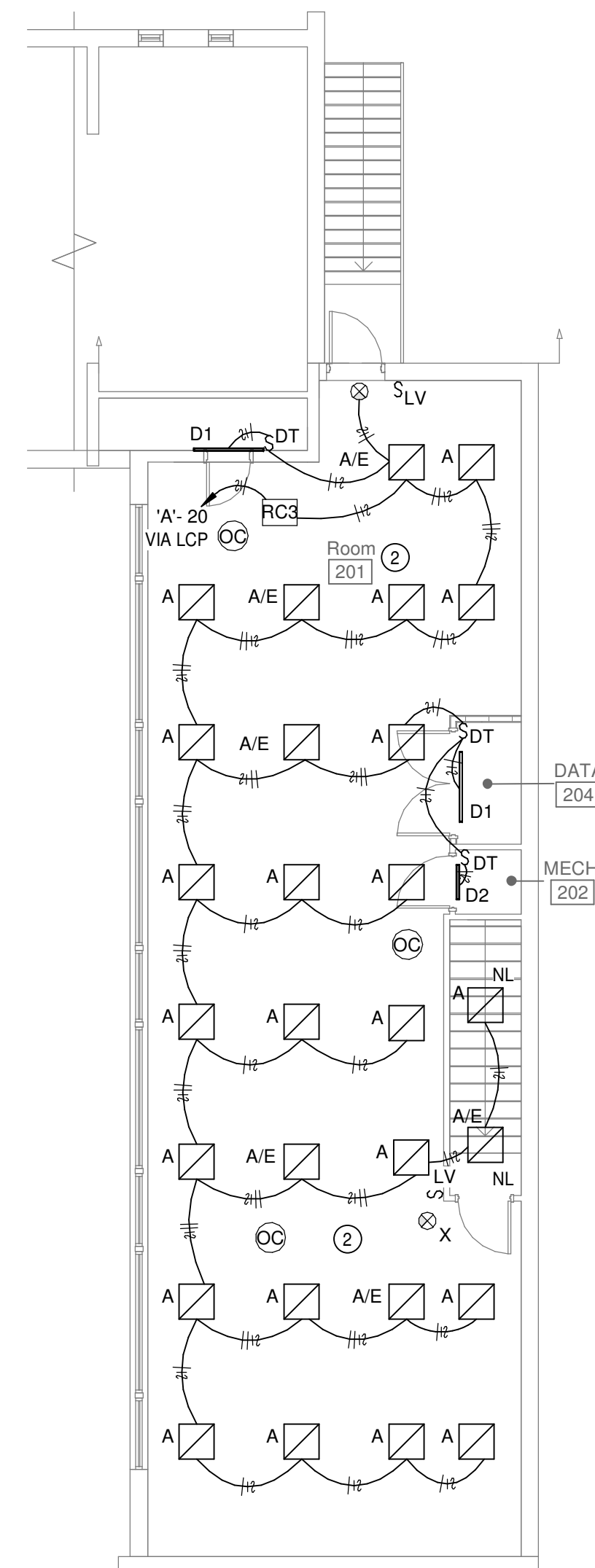
① AUDITORIUM FLOOR PLAN - LIGHTING  
1/8" = 1'-0"



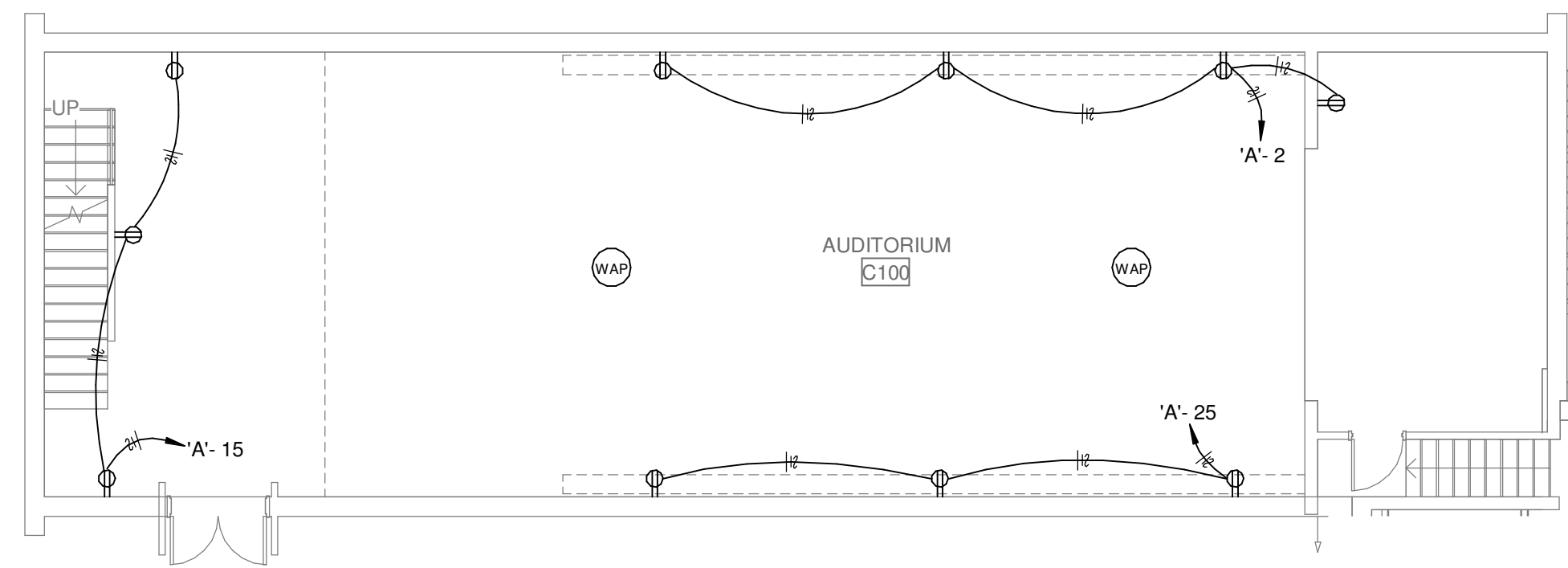
② MEZZANINE FLOOR PLAN - LIGHTING  
1/8" = 1'-0"



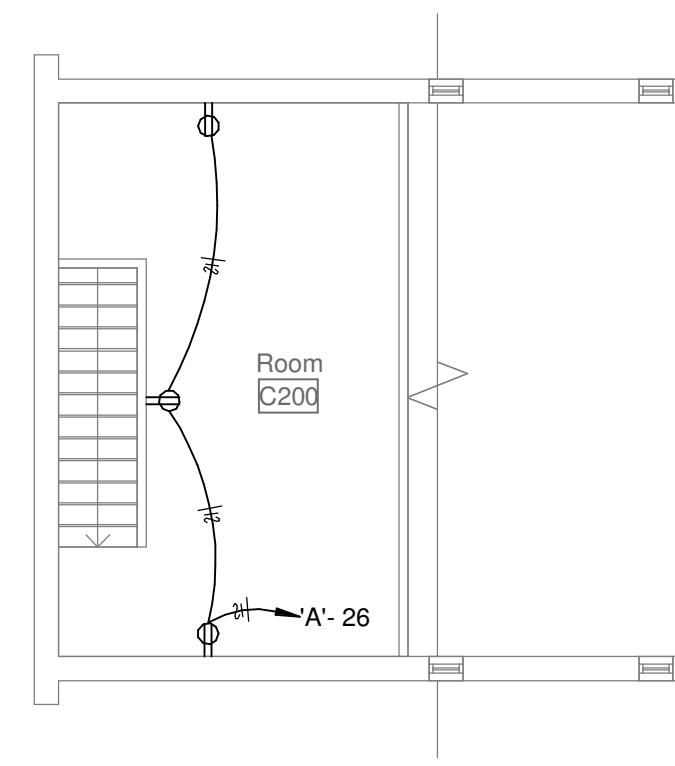
③ CLASSROOM WING FIRST FLOOR PLAN - LIGHTING  
1/8" = 1'-0"



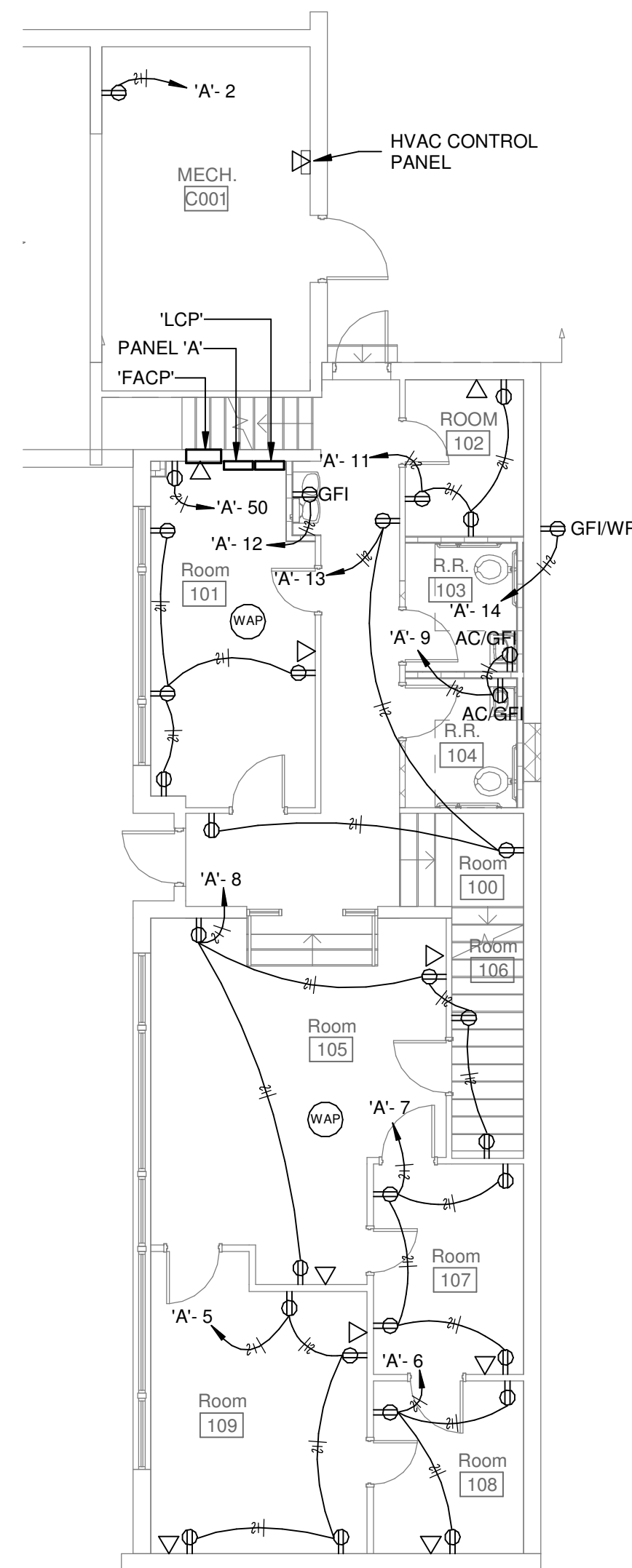
④ CLASSROOM WING SECOND FLOOR PLAN - LIGHTING  
1/8" = 1'-0"



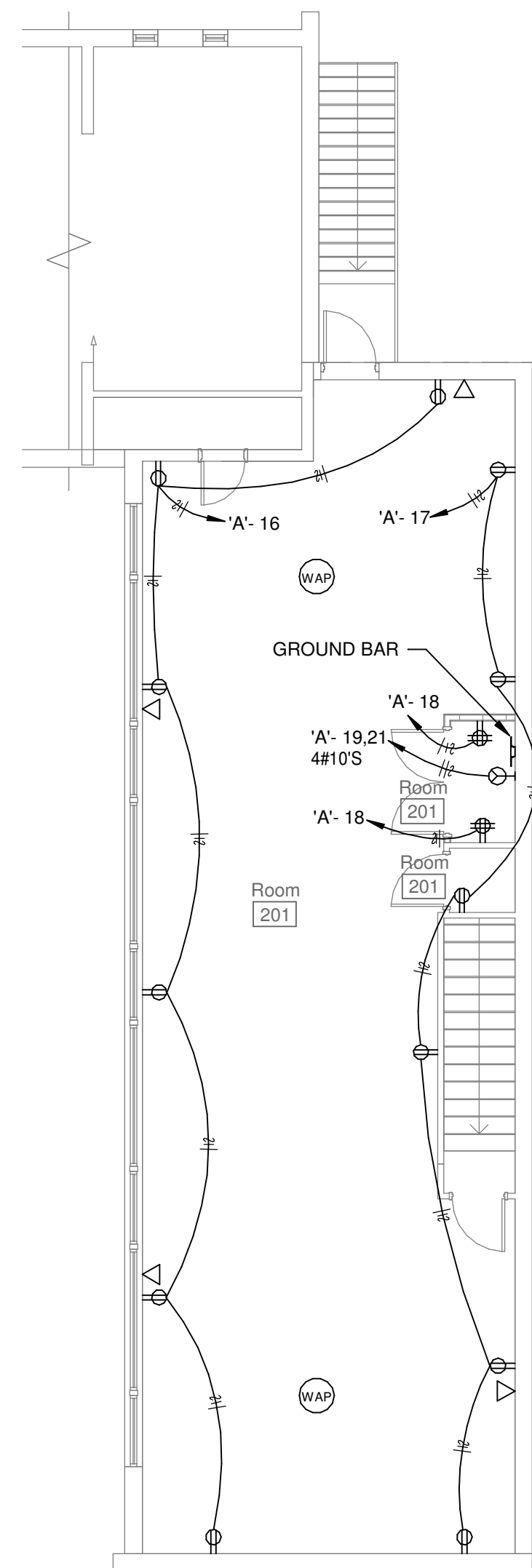
**1** AUDITORIUM FLOOR PLAN - POWER  
1/8" = 1'-0"  
NORTH



**2** MEZZANINE FLOOR PLAN - POWER  
1/8" = 1'-0"  
NORTH



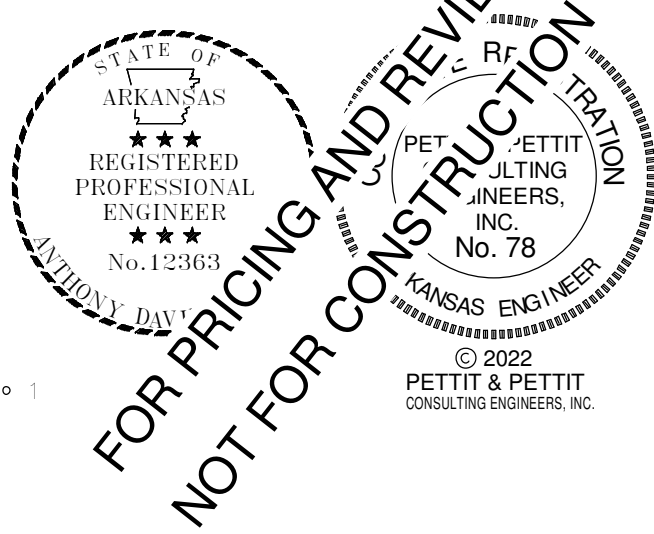
**3** CLASSROOM WING FIRST FLOOR PLAN - POWER  
1/8" = 1'-0"  
NORTH



**4** CLASSROOM WING SECOND FLOOR PLAN - POWER  
1/8" = 1'-0"  
NORTH

**SCM**  
ARCHITECTS P.L.L.C.

28 East Center Street, Suite 220  
Fayetteville, Arkansas 72701  
(479) 966-8777 Fax Office (501) 224-8855  
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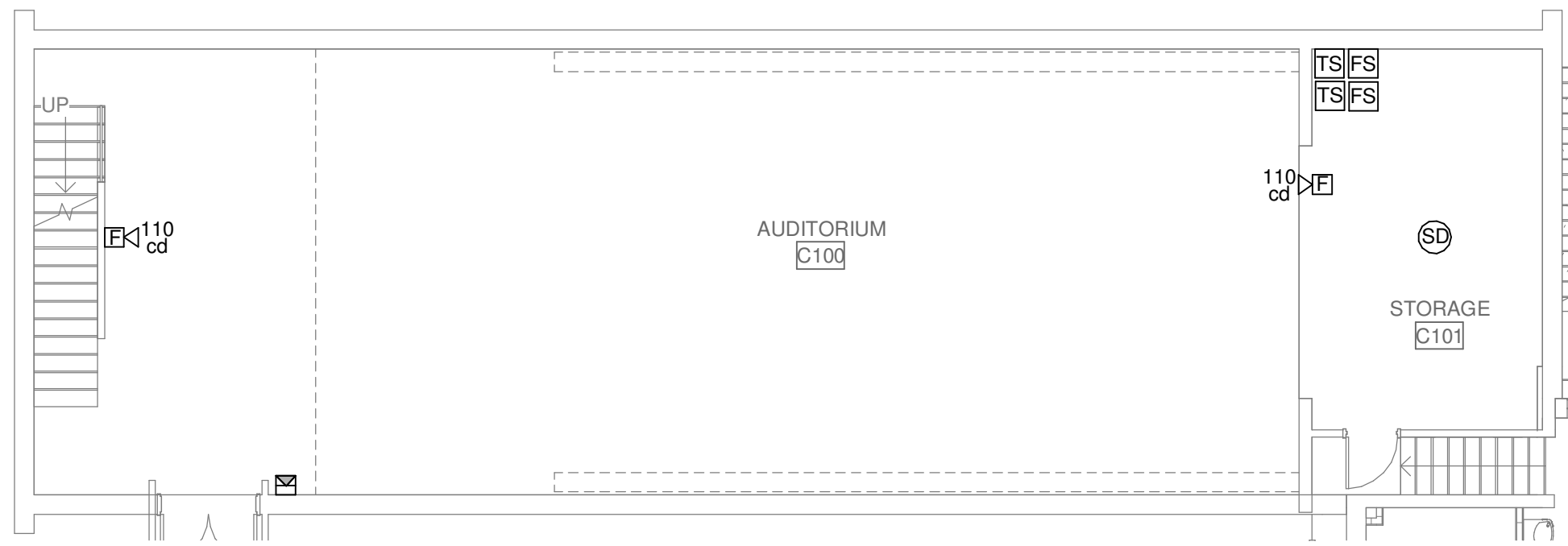
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FLOOR PLANS -  
POWER

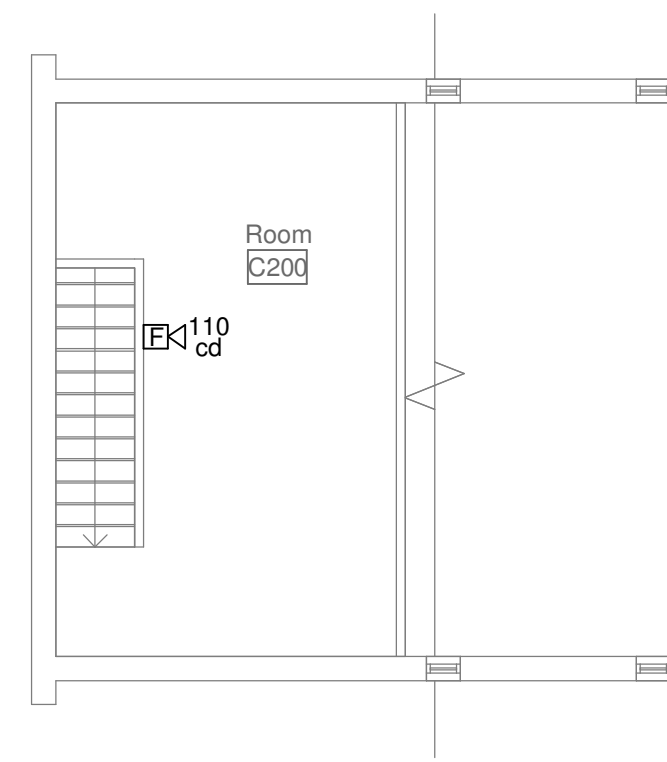
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SCM ARCHITECTS P.L.L.C.





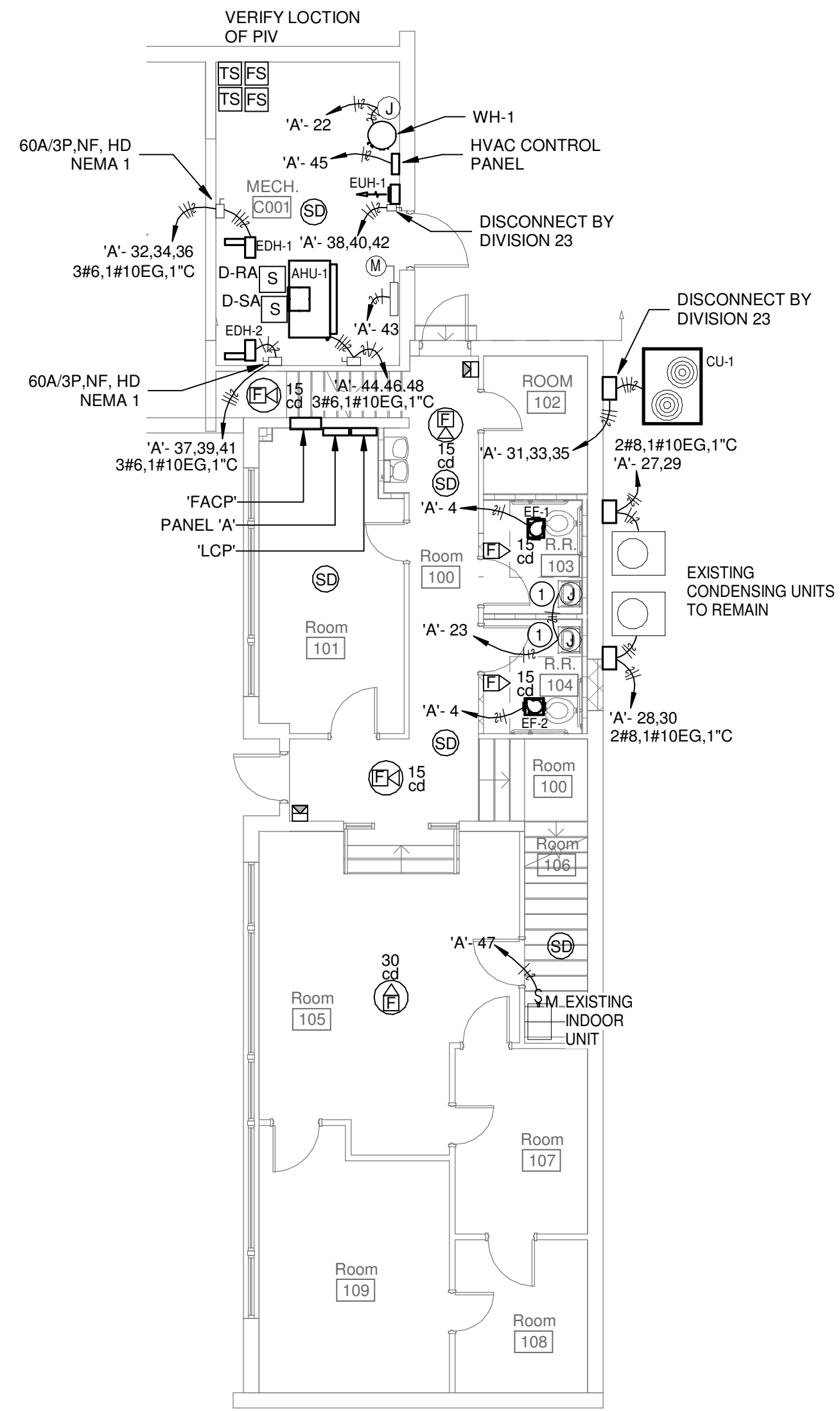
**1 AUDITORIUM FLOOR PLAN - SYSTEMS**  
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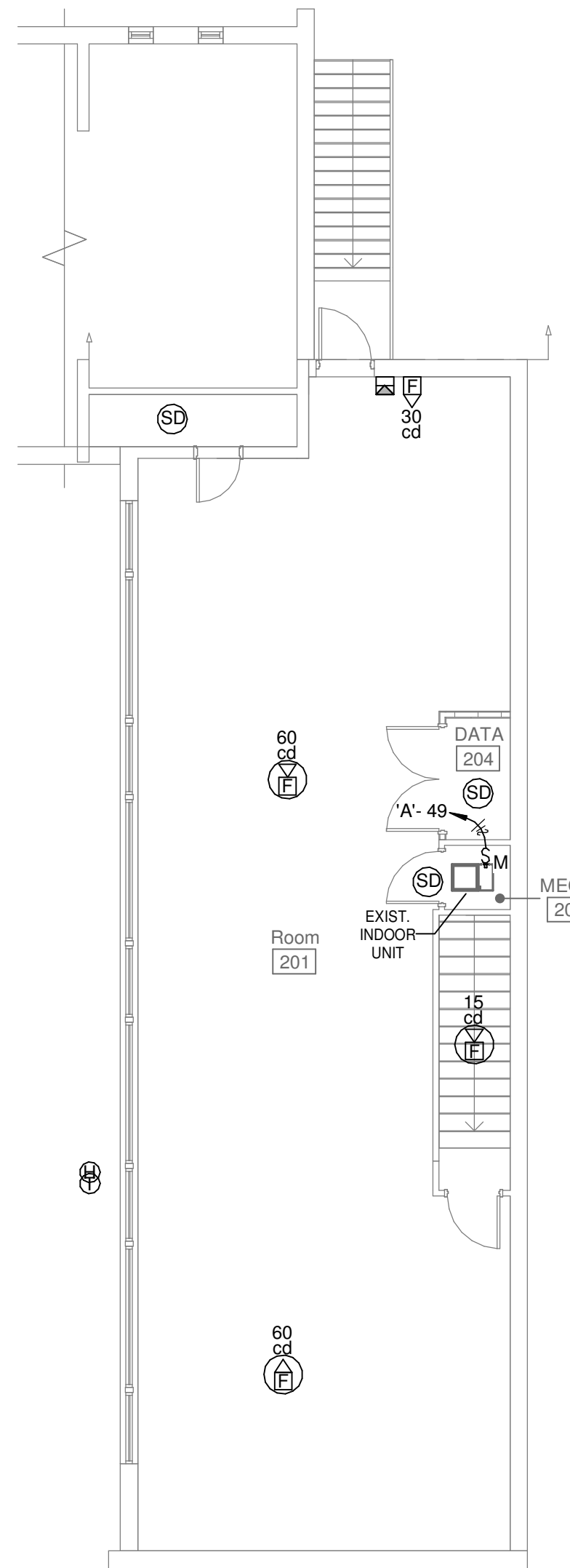
**2 MEZZANINE FLOOR PLAN - SYSTEMS**  
1/8" = 1'-0"

**ELECTRICAL SYSTEMS KEYED NOTES**

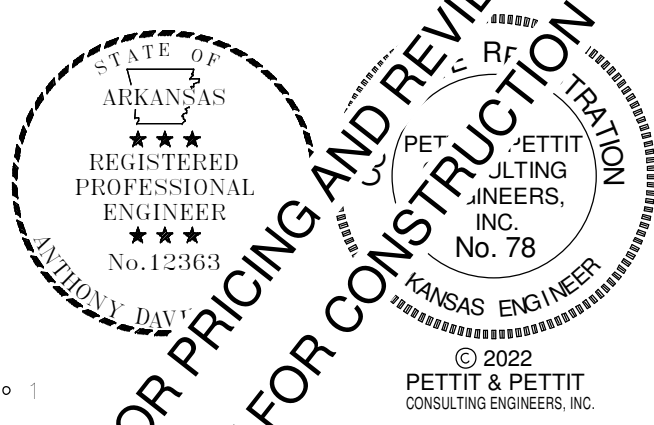
① PROVIDE POWER TO ABOVE CEILING JUNCTION BOX FOR AUTOMATIC FAUCETS. LOW VOLTAGE TRANSFORMER SHALL BE PROVIDED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE WIRING AND FINAL CONNECTION AT AUTOMATIC FIXTURES.



**3 CLASSROOM WING FIRST FLOOR PLAN - SYSTEMS**  
1/8" = 1'-0"



**4 CLASSROOM WING SECOND FLOOR PLAN - SYSTEMS**  
1/8" = 1'-0"



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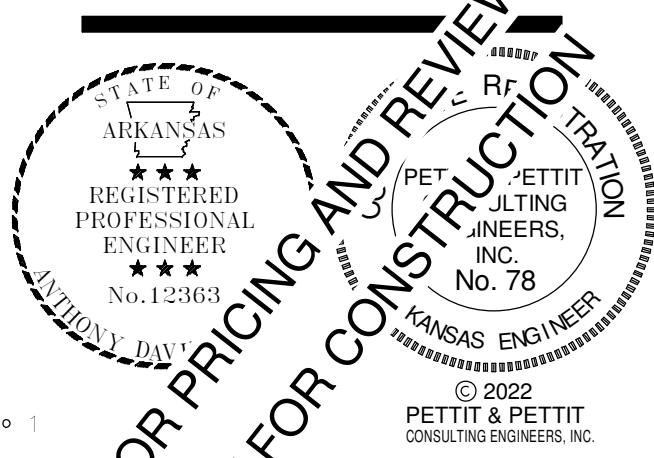
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FLOOR PLANS -  
SYSTEMS

**E1.03**



### LIGHT FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	ELECTRICAL DATA	DESCRIPTION
A	COOPER	CPX 2X2 5000LM 80CRI 40K XXX MIN10 ZT MVOLT	120 V/1-39 VA	2X2 LED FLAT PANEL
A/E	COOPER	CPX 2X2 5000LM 80CRI 40K XXX MIN10 ZT MVOLT-E10WLCP	120 V/1-39 VA	2X2 LED FLAT PANEL - EM BATT
B	ACUITY	LDN6 AL02 SWW1 L06 XX LD MVOLT 90CRI	120 V/1-25 VA	6" DOWNLIGHT
B/E	ACUITY	LDN6 AL02 SWW1 L06 XX LD MVOLT 90CRI E10WCP	120 V/1-25 VA	6" DOWNLIGHT - EM BATT
C1	ACUITY	S1LS LXX 23" FT MSLX 90CRI 40K 1000LMF MINI EGLD MVOLT XXX ZT	120 V/1-19 VA	23" LED DIRECT WALL
C/E	ACUITY	S2LWD 12FT MSL4MSL8 90CRI 40K 1000LMF MINI EGLD MVOLT XXX ZT	120 V/1-19 VA	SLOT 2 LED DIRECT WALL
D1	ACUITY	ZL1N L48 3000LM FST MVOLT 40K 90CRI XXX XX	120 V/1-25 VA	4' STRIP LIGHT
D2	ACUITY	ZL1N L24 3000LM FST MVOLT 40K 90CRI XXX XX	120 V/1-0 VA	2' STRIPLIGHT
E	ACUITY	WL4 20L MVOLT LF840	120 V/1-0 VA	WALL BRACKET AND SURFACE MOUNT LED
E/E	ACUITY	WL4 20L MVOLT LF840 - NL - EM	120 V/1-0 VA	WALL BRACKET AND SURFACE MOUNT LED - EM BATT
F	BEGA	TBD	120 V/1-30 VA	EXTERIOR WALL PACK - EM BATT
X	ACUITY	EDG-X-1-R	120 V/1-3 VA	LED CEILING MOUNTED EXIT LIGHT.

Panelboard: 'A'		VOLTAGE:	COPPER BUS RATING:	MAINS TYPE:				
Room 101		120/208 Wye	400 A	MLO				
LOCATION:		PHASE:	GROUND BUS:	MCB RATING:				
Room 101		3						
MOUNTING:		WIRES:	MINIMUM A.I.C. RATING:	FED FROM:				
Recessed		4						
ENCLOSURE:	Type 1	MFR. AND TYPE:	SQUARE D NQ	NEUTRAL RATING:				
Circuit Number	Load Name	BRKR	A	B	C	BRKR	Load Name	Circuit Number
1	LIGHTING - AUDITORIUM	20A/1P	1514	720			RECEPT - AUDITORIUM C100	2
3	FUTURE LIGHTING - AUDITORIUM	20A/1P			1200	1481	LIGHTING FIRST FLOOR/EF FANS	4
5	RECEPT. - ROOM 109	20A/1P					RECEPT. - ROOM 108	6
7	RECEPT. - ROOM 107	20A/1P	720	900			RECEPT. - ROOM 105 & 106	8
9	RECEPT. - ROOM 100, RR 103 & 104	20A/1P			360	720	RECEPT. - ROOM 101	10
11	RECEPT. - 102	20A/1P					EW-1	12
13	RECEPT. ROOM 100	20A/1P	540	180			EXTERIOR RECEPT.	14
15	RECEPT. - MEZZ	20A/1P			540	1080	RECEPT. - ROOM 201	16
17	RECEPT. - ROOM 201 & STOR	20A/1P					RECEPT. - DATA ROOM	18
19	DATA RACK - VERIFY BREAKER	30A/2P	750	1146			SECOND FLOOR LIGHTING	20
21	--				750	1728	WH-1	22
23	FAUCETS	20A/1P					EXTERIOR WALL PACKS	24
25	RECEPT. - AUDITORIUM C100	20A/1P	540	540			RECEPT. - ROOM C102	26
27	EXISTING EXTERIOR CU UNIT	40A/2P			2715	0	EXISTING EXTERIOR CU UNIT	28
29	--						--	30
31	CU-1	15A/3P	1201	5764			EDH-1	32
33	--				1201	5764	--	34
35	--						--	36
37	EDH-2	60A/3P	5764	667			EUH-1	38
39	--				5764	667	--	40
41	--						--	42
43	MOTORIZED DAMPER	20A/1P	250	4780			AHU-1	44
45	HVAC CONTROL PANEL	20A/1P			500	4780	--	46
47	EXISTING HVAC - ROOM 106	20A/1P				1500	4780	48
49	EXISTING HVAC - MECH 202	20A/1P	1500	500			FACP	50
51								52
53								54
55								56
57								58
59								60
61								62
63								64
65								66
67								68
69								70
71								72
<b>Total Load:</b>			27936 VA	29227 VA		27261 VA		
<b>Total Amps:</b>			234 A	244 A		227 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals				
Lighting	4204 VA	125.00%	5255 VA	<b>Total Connected Load:</b>		84422 VA		
Receptacles	10620 VA	97.08%	10310 VA	<b>Total Estimated Demand:</b>		85455 VA		
HVAC	62957 VA	100.00%	62957 VA	<b>Total Connected Current:</b>		234 A		
Power	2000 VA	100.00%	2000 VA			237 A		
Other	3478 VA	100.00%	3478 VA					
Motor	0 VA	0.00%	0 VA					
Heating	0 VA	0.00%	0 VA					
Existing Load	0 VA	0.00%	0 VA					
<b>Notes:</b>								

### SYMBOL LEGEND

	DUPLEX RECEPTACLE AT 18" A.F.F. GFI - GROUND FAULT CIRCUIT INTERRUPTER AC - MOUNTED ABOVE COUNTER BC - MOUNTED BELOW COUNTER WP - PROVIDED WITH WEATHERPROOF IN-USE TYPE COVER
	QUADRUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE NEMA CONFIGURATION SHOWN ON PLAN
	DUPLEX RECEPTACLE - FLOOR MOUNTED
	QUADRUPLEX RECEPTACLE FLOOR MOUNTED
	DATA OUTLET - SEE DATA RISER
	VOICE OUTLET
	DATA OUTLET - FLOOR MOUNTED
	WIRELESS ACCESS POINT
	JUNCTION BOX
	SINGLE POLE TOGGLE SWITCH AT 48" A.F.F. TYPICAL 2 - INDICATES 2-POLE TOGGLE 3 - INDICATES 3-WAY TOGGLE 4 - INDICATES 4-WAY TOGGLE D - DIMMER K - KEY OPERATED LV* - LOW VOLTAGE PUSH BUTTON SWITCH, * = NUMBER OF BUTTONS M - MOTOR RATED TOGGLE OC - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH WP - WEATHERPROOF COVER
	BRANCH CIRCUIT HOMERUN HOT-NETURAL-GROUND PANEL AND CIRCUIT NUMBER INDICATED ON PLAN
	PANELBOARD
	DISCONNECT SWITCH
	POWER SUPPLY
	INDIVIDUAL ADDRESSABLE MODULE
	ZONE ADAPTER MODULE
	HEAT DETECTOR
	SMOKE DETECTOR
	MANUAL PULL STATION
	FIRE ALARM REMOTE ANNUNCIATOR
	TAMPER SWITCH
	WATER FLOW SWITCH
	AIR SAMPLING SUPPLY
	AIR SAMPLING RETURN
	FIRE ALARM AUDIO/VISUAL APPLIANCE CANDELA RATING AS SHOWN ON PLANS
	FIRE ALARM VISUAL ONLY APPLIANCE CANDELA RATING SHOWN ON PLANS
	DUAL TECHNOLOGY OCCUPANCY SENSOR CEILING/WALL MOUNTED EQUAL TO *****
	PIR OCCUPANCY SENSOR CEILING/WALL MOUNTED EQUAL TO *****
	LIGHTING ROOM CONTROLLER SINGLE RECEPT EQUAL TO *****
	LIGHTING ROOM CONTROLLER DUAL RECEPT EQUAL TO *****
	LIGHTING ROOM CONTROLLER TRIPLE RECEPT EQUAL TO *****
	OCCUPANCY SENOR POWER PACK EQUAL TO *****

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E2.01

WIRING I.D. NAMEPLATE WITH THE FOLLOWING INFORMATION:  
480/277V 208/120V  
PHASE A - BROWN BLACK  
PHASE B - ORANGE RED  
PHASE C - YELLOW BLUE  
NEUTRAL - GRAY WHITE

I.D. NAMEPLATE WITH THE FOLLOWING INFORMATION:  
1. EQUIPMENT I.D. ABBREVIATION  
2. VOLTAGE, PHASE, WIRES  
3. EMERGENCY OR NORMAL SYSTEM  
4. POWER SOURCE ORIGINATION

EXAMPLE

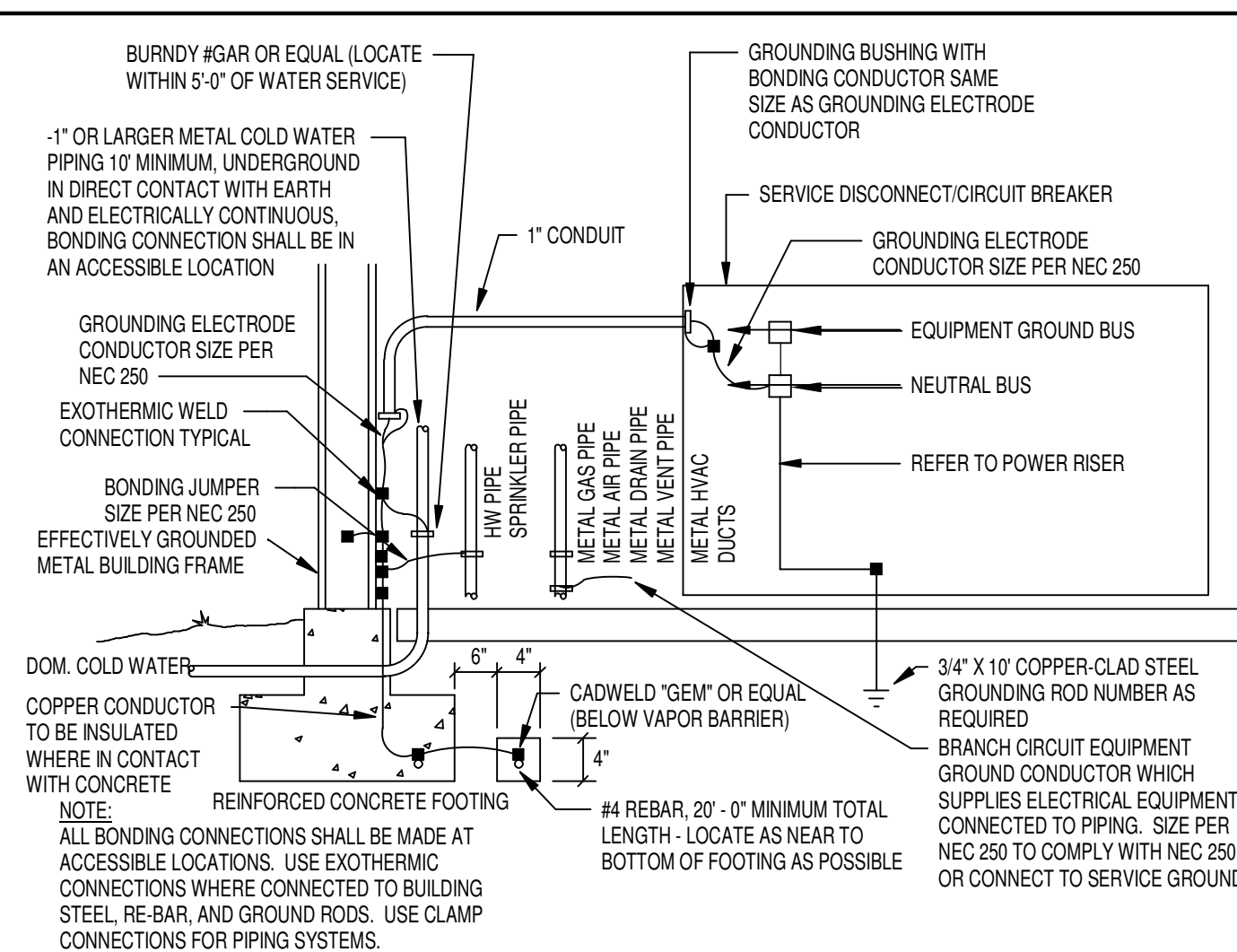
PANEL HP1  
480/277V, 3 PHASE, 4 WIRE  
FED FROM MDP

FOR SERVICE DISCONNECT EQUIPMENT INSTALL LABEL FOR CALCULATED AVAILABLE FAULT CURRENT WITH DATE

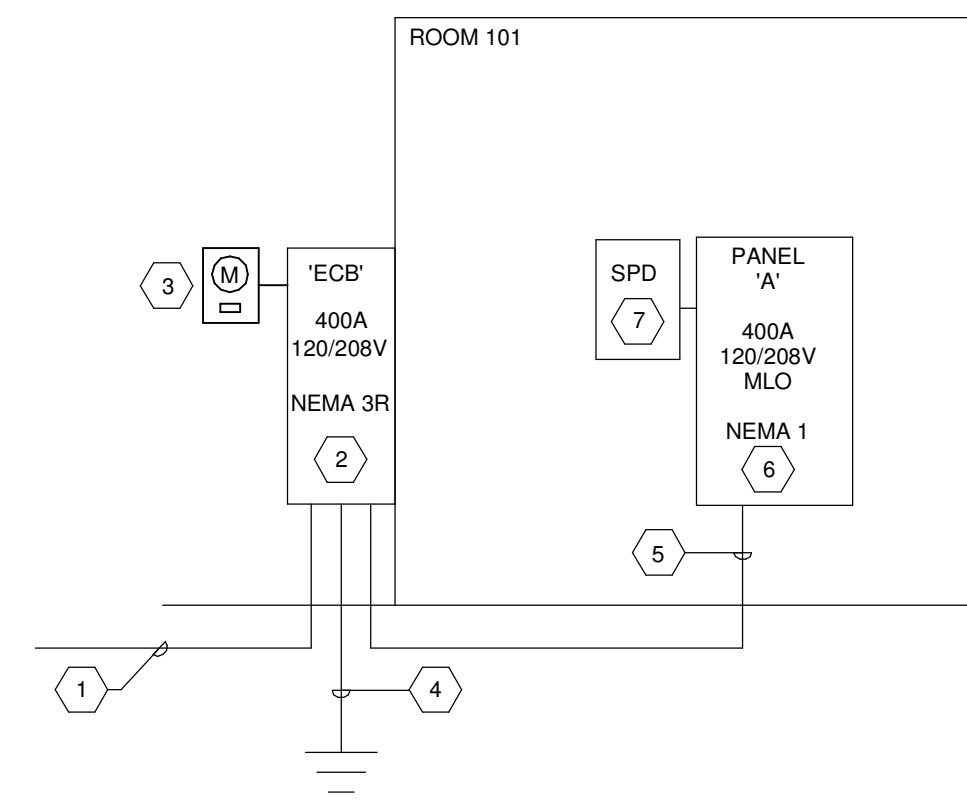
PANEL IDENTIFICATION NOTES:

- SIMILAR FOR DISCONNECTS, MOTOR CONTROLLERS, TRANSFORMERS, LIGHTING CONTROL PANEL, AUTOMATIC TRANSFER SWITCHES, ETC.
- PROVIDE PANEL IDENTIFICATION FOR ALL NEW PANELS AND FOR ALL EXISTING REWORKED PANELS THAT DO NOT CURRENTLY HAVE IDENTIFICATION TAGS IN PLACE.

### 1 PANEL & SERVICE ID DETAIL NOT TO SCALE



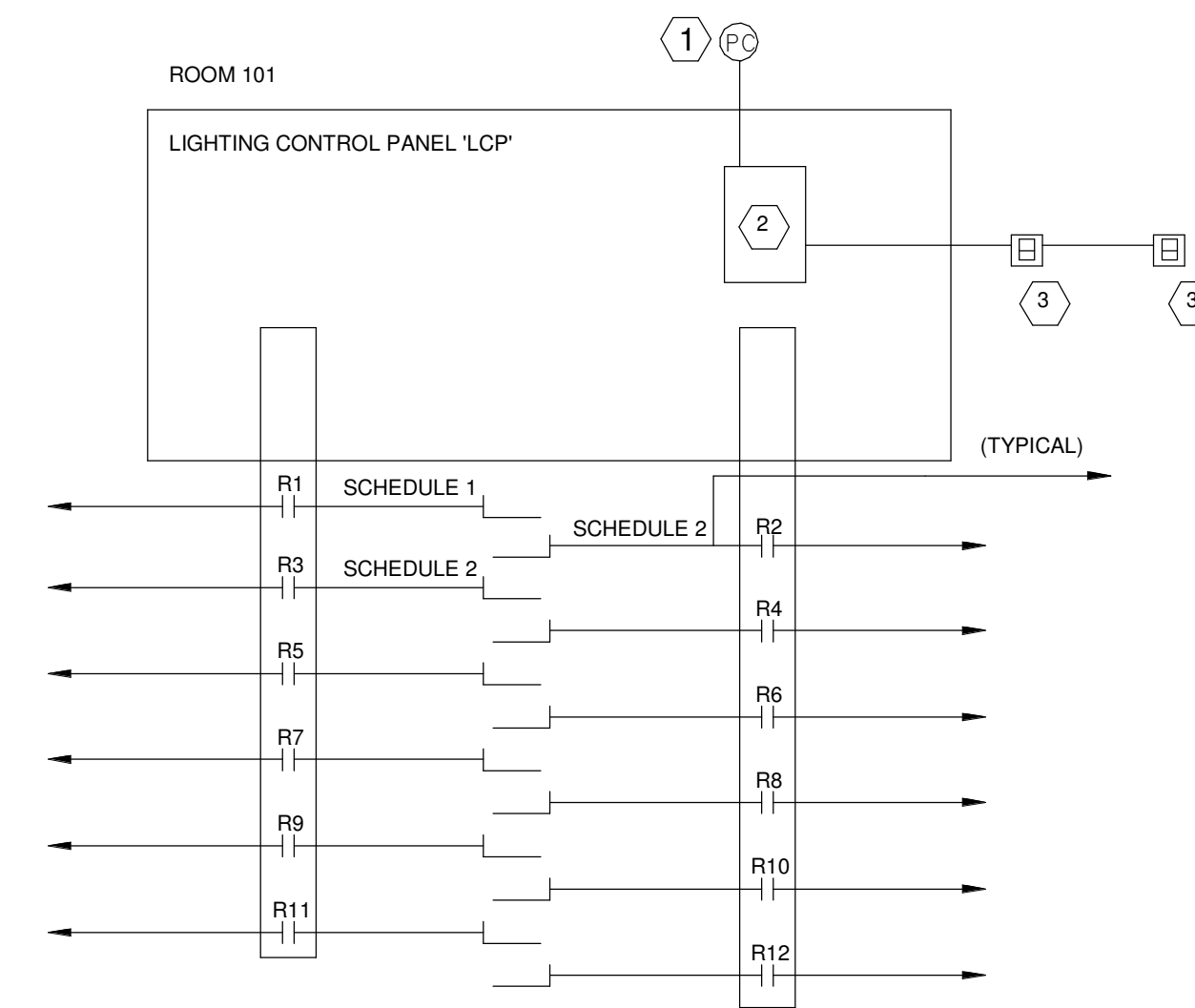
### 2 SERVICE GROUNDING DETAIL NOT TO SCALE



**POWER RISER KEYED NOTES:**

- 1 NEW 400A SERVICE. COORDINATE WITH UTILITY.
- 2 NEW 400A 3R 'ECB'
- 3 NEW METER PER UTILITY
- 4 SEE GROUNDING DETAIL
- 5 NEW 400A FEEDER.
- 6 NEW 400A PANEL 'A'.
- 7 PANEL PANEL 'A' SURGE PROTECTOR CURRENT TECH CG 100. CONDUCTORS BETWEEN BREAKER AND SPD SHALL BE KEPT AS SHORT AND STRAIGHT AS POSSIBLE.

**3 POWER RISER DIAGRAM**  
NOT TO SCALE



**2 LIGHTING RELAY PANEL RISER DIAGRAM**  
NOT TO SCALE

SYSTEM SHALL BE EQUAL TO GREENGATE LIGHTING CONTROL PANEL MEETING REQUIREMENTS OF ASHRAE 90.1-2007 AND IECC 2009.

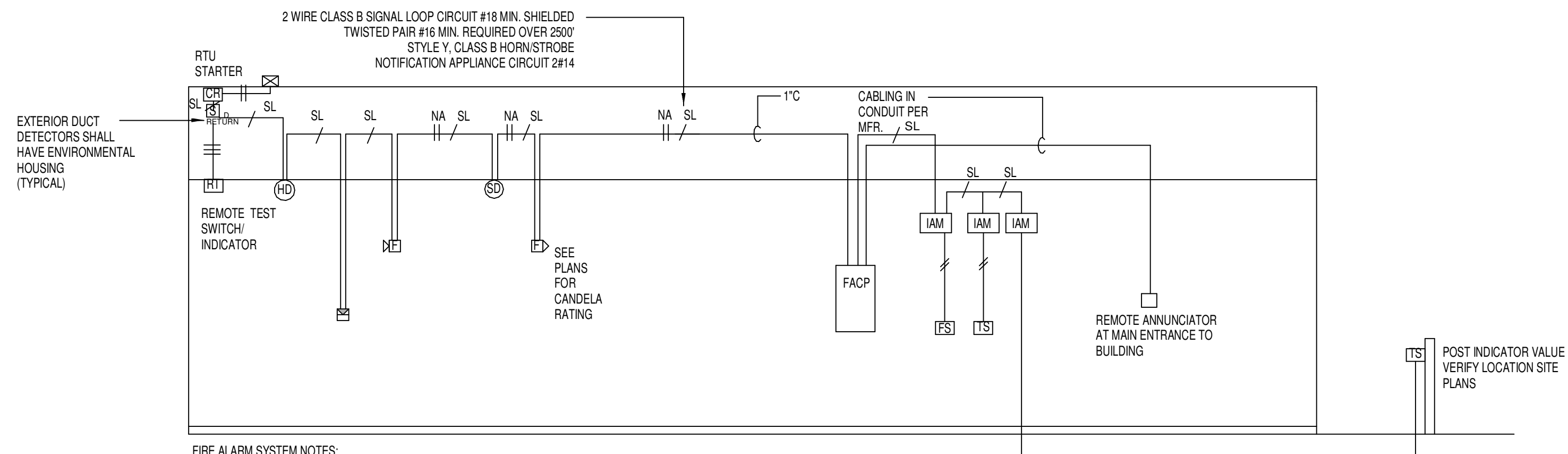
- 1 OUTDOOR PHOTOCELL FOR EXTERIOR WALL PACKS. FIELD LOCATE
- 2 MASTER PROGRAMMABLE LIGHTING CONTROL RELAY PANEL TO BE EQUAL TO GREENGATE LIGHTING CONTROL PANEL. ALL TIMES/EVENTS, PROGRAMMED AT THIS PANEL.
- 3 OFF OVERRIDE BY OCCUPANCY SENSOR. ALL OCCUPANCY SENSORS WITHIN THE BUILDING SHALL REPORT STATUS TO LIGHTING CONTROL PANEL.

**SCHEDULE PROGRAMMING**

- SCHEDULE 1 - PHOTOELECTRIC CELL SYSTEM ON/OFF @ 5FC. TIMECLOCK OFF FOR OWNER DIRECTED DURATION. MASTER OVERRIDE PUSHBUTTON STATION.
- SCHEDULE 2 - PER OWNERS DIRECTION. INDOOR AREA

**NOTES:**

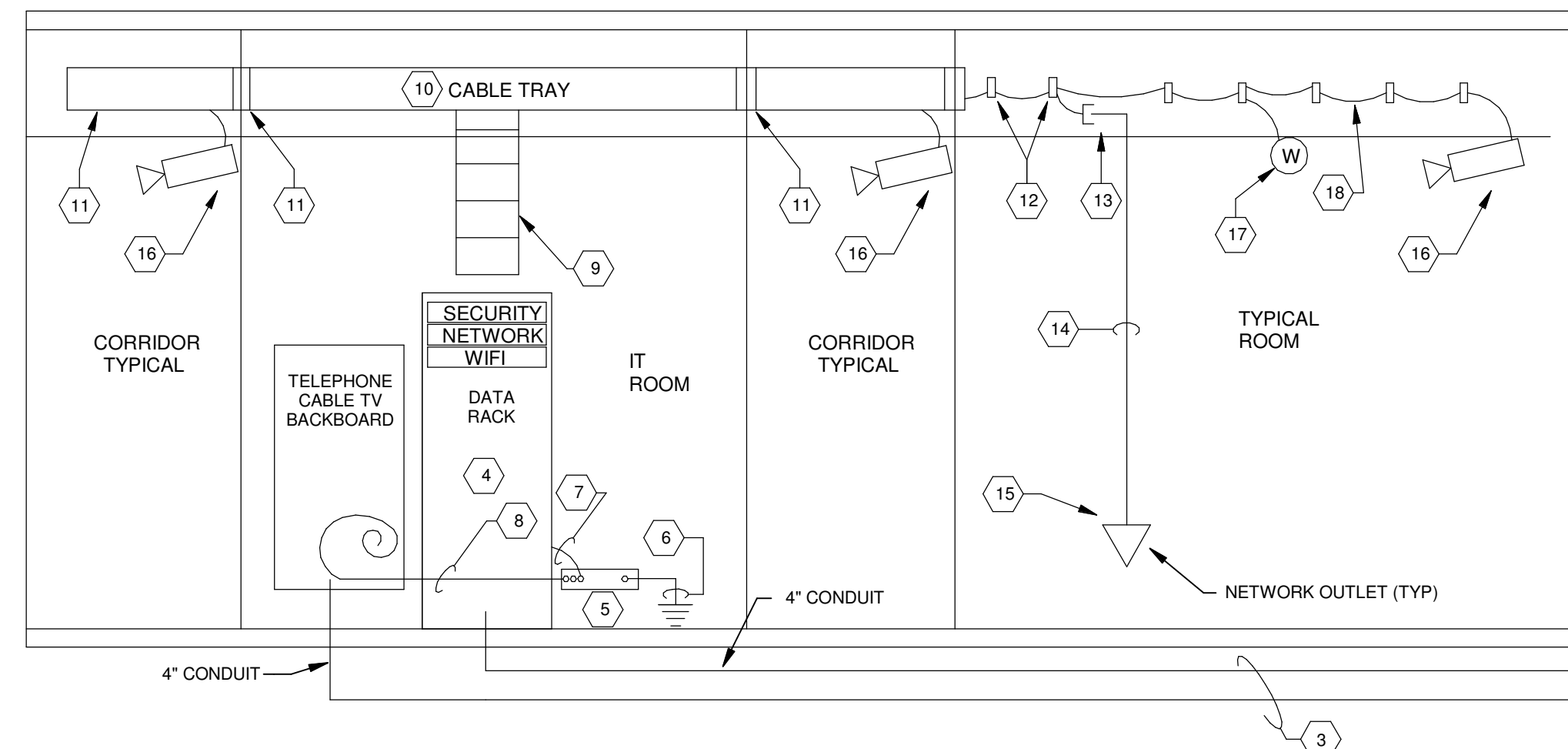
- 1. LIGHTING CONTROLS SYSTEM SHALL BE PROVIDED AS A COMPLETE AND OPERATIVE SYSTEM. ALL CABLING, MODULES, RELAYS, POWER SUPPLIES, ETC. SHALL BE PROVIDED AS PART OF THE BASE
- 2. COLOR BY ARCHITECT.
- 3. DO NOT SWITCH THE HOT TO EMERGENCY BALLASTS



**FIRE ALARM SYSTEM NOTES:**

1. ALL WIRING IN CONDUIT. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. VERIFY EXACT WIRING REQUIREMENTS AND NOTIFICATION POWER SUPPLY PANELS WITH FIRE ALARM SYSTEM INSTALLER. ALL NOTIFICATION POWER SUPPLIES SHALL BE CONNECTED TO DEDICATED 20A/120V BRANCH CIRCUITS FROM POWER PANELS. FIRE ALARM SYSTEM CONTRACTOR SHALL INCLUDE COSTS FOR BRANCH CIRCUITS REQUIRED FOR NOTIFICATION POWER SUPPLY PANELS IN BID. PANELS SHALL BE INSTALLED IN AVAILABLE SPACE IN ELECTRICAL ROOMS ONLY. EXACT LOCATIONS DETERMINED BY ARCHITECT. PROVIDE 120V SHUNT TRIP CONTROL FOR ELEVATOR LIGHTS AND CONTROLS IF REQUIRED BY LOCAL ELEVATOR INSPECTOR(AHJ).
2. FIRE ALARM SYSTEM TO BE INSTALLED PER APPROVED SHOP DRAWINGS FURNISHED BY THE FIRE ALARM VENDOR. CONTRACTOR TO PROVIDE A COMPLETE SCHEDULE OF DEVICE ADDRESSES WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL.
3. CONTRACTOR TO PROVIDE COMPLETE SCHEDULE FOR EACH DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. ALL CABLING INSTALLED IN CONDUIT. VERIFY EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.
4. PROVIDE AND INSTALL A GSM DIALER FOR FIRE ALARM COMMUNICATIONS. CONTRACTOR SHALL INCLUDE 1 YEAR OF CELLULAR AND MONITORING SERVICE IN THE CONTRACT.
5. CONTRACTOR TO PROVIDE COMPLETE SCHEDULE FOR EACH DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL. SEE FLOOR PLANS FOR TOTAL NUMBER OF DEVICES REQUIRED. ALL CABLING INSTALLED IN CONDUIT. VERIFY EXACT WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER.
6. FIRE PROTECTION RISER IS FOR REFERENCE ONLY. VERIFY ALL FLOW/TAMPER SWITCH LOCATIONS AND QUANTITIES

**1 FIRE ALARM SYSTEM RISER DIAGRAM**  
NOT TO SCALE



**DATA RISER KEYED NOTES:**

- 1 ONE 4" CONDUIT STUB OUT FOR TELEPHONE AND NETWORK SERVICE. TELEPHONE AND NETWORK STUB OUT SHALL EXTEND TO THE PROPERTY LINE. COORDINATE EXACT STUB OUT LOCATION WITH THE TELEPHONE UTILITY.
- 2 48"X48" QUAZITE HANDHOLE FOR TELECOMMUNICATION ENTRANCE.
- 3 2EA. 4" CONDUITS FOR TELECOMMUNICATIONS, CABLE TV, AND TELEPHONE SERVICE ENTRANCE.
- 4 NEW OPEN FRAME TWO POSE DATA RACK WITH HORIZONTAL AND VERTICAL CABLE MANAGEMENT PER ENERGY STANDARDS.
- 5 18"X14"X4" COPPER GROUNDING BUS BAR WITH STANDOFF BRACKET.
- 6 BOND TO BUILDING STRUCTURE AND TO ELECTRICAL SERVICE ENTRANCE GROUND PER BICSI STANDARDS.
- 7 #6 AWG BONDING JUMPER TO DATA RACKS.
- 8 SLACK #6 GROUNDING CABLE FOR OWNER GROUNDING.
- 9 18" LADDER RACK DROP TO TOP OF EACH DATA RACK.
- 10 12" WIDE BASKET STYLE CABLE TRAY EQUAL TO COOPER B-LINE FLEXTRAY WITHIN DATA ROOMS. REFER TO SYSTEMS PLAN FOR ROUTING. PROVIDE WATERFALL FROM CABLE TRAY TO LADDER DROP AT DATA RACK.
- 11 UL LISTED, FIRE RATED CABLE PENETRATION EQUAL TO WIREMOLD FLAMESTOPPER AT ALL FIRE RATED PARTITIONS.
- 12 J-HOOKS ALONG WALLS FROM CABLE TRAY TO DEVICE OR DROP. J-HOOKS SHALL BE SPACED NO MORE THAN 60" ON CENTER. CABLES SHALL BE NEATLY BUNDLED BY COLOR ALONG J-HOOKS USING VELCRO CABLE WRAPS.
- 13 PROVIDE PORTECTIVE BUSHING IN ALL CONDUIT DROPS.
- 14 1" EMT MINIMUM CONDUIT DROP DOWN FOR NETWORK CABLING. ADJUST FOR WIRE FILL.
- 15 TYPICAL 3 CAT6A PER DATA OUTLET. REFER TO PLANS FOR NUMBER AND LOCATION OF DROPS IF QUANTITY DIFFERS. KEYSTONES, JACKS, AND FACEPLATES SHALL BE PER OWNER STANDARDS. VERIFY PRIOR TO INSTALLATION. THIS INCLUDES EXISTING LOCATIONS THAT ARE SHADED ON PLANS.
- 16 TYPICAL CAMERA LOCATIONS, REFER TO PLANS FOR NUMBER, LOCATIONS, AND MOUNTING. SHOWN FOR REFERENCE. PROVIDE CONDUIT PATHWAY AND BACK BOX. PROVIDE PULL STRINGS IN EACH CONDUITS AND COVERPLATES.
- 17 TYPICAL OWNER PROVIDED, WIFI ACCESS POINT. TYPICAL (1) CAT6A PER LOCATION. REFER TO PLANS FOR NUMBER AND LOCATIONS.
- 18 TYPICAL PLENUM RATED CAT6A NETWORK CABLING.

**4 DATA RISER DIAGRAM**  
NOT TO SCALE



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