

GENERAL UTILITY NOTES:

- CONTRACTOR SHALL CONTACT ALL UTILITY PROVIDERS IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY TIME FRAMES ESTABLISHED BY UTILITY COMPANIES WHICH WILL NOT MEET CONTRACTOR'S SCHEDULE.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES. PRIOR TO ANY CONSTRUCTION, CONTRACTOR TO ENSURE EXISTING UTILITIES ARE IN GOOD CONDITION AND FREE FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR LOCATION DIFFER FROM WHAT IS SHOWN ON SHEET, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES, PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST SEVEN (7) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION AND SCHEDULING OF TIE-IN CONNECTIONS TO THEIR FACILITIES.
- ALL UNDERGROUND UTILITIES (WATER SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS.
- THE CONTRACTOR SHALL PROVIDE A SUITABLE OFFICE NEAR THE SITE FOR HIS USE AND AT WHICH COPIES OF THE SPECIFICATIONS AND DRAWINGS SHALL BE KEPT. THE CONTRACTOR SHALL ALSO DESIGNATE TO THE OWNER A PERSON TO BE NOTIFIED IN CROSSVILLE IN CASE OF EMERGENCIES OTHER THAN DURING WORKING HOURS AND ON HOLIDAYS AND WEEKENDS.
- SITE SHALL BE GRADED TO SUBGRADE BEFORE WATER LINES AND SANITARY SEWERS ARE INSTALLED.
- CONTRACTOR SHALL COORDINATE ALL MAINLINE WATERLINE TAPS WITH THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF CROSSVILLE WATER AND SEWER SPECIFICATIONS.
- IN TENNESSEE IT IS A REQUIREMENT PER THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UTILITY OWNERS, NO LESS THAN THREE NOR MORE THAN TEN WORKING DAYS, PRIOR TO THEIR INTENDED EXCAVATION. A LIST OF THESE UTILITY OWNERS MAY BE OBTAINED FROM THE COUNTY REGISTER OF DEEDS THOSE UTILITY OWNERS WHO PARTICIPATE IN THE TENNESSEE ONE CALL SYSTEM CAN BE NOTIFIED TOLL FREE AT (800) 351-1111.
- WHERE CLEANOUTS, CASTINGS, VALVE BOXES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED AND ARE TO REMAIN IN USE, IN AREAS WHERE ELEVATIONS ARE TO CHANGE OR BE PAVED, THOSE FEATURES ARE TO BE ADJUSTED TO MATCH PROPOSED FINISHED GRADES.
- EXISTING STORM STRUCTURES SHALL BE CORE DRILLED FOR CONNECTION TO NEW STORM SEWER.
- CONTRACTOR SHALL MAINTAIN 18" OF SEPARATION BETWEEN CROSSING UTILITIES.

WATER LINE NOTES:

- ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE.
- ALL TRENCHES, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL O.S.H.A. REGULATIONS.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF CROSSVILLE WATER AND SEWER SPECIFICATIONS.
- CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
- COMPLETE SPECIFICATIONS FOR THE WATER LINES ARE ON FILE AT THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT.
- WATER & SEWER CONSTRUCTION MUST BE IN ACCORDANCE WITH ALL CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT SPECIFICATIONS AND STANDARD DRAWINGS.
- RESTRAINTS SUCH AS RODS OR KICKERS SHALL BE INSTALLED AT CHANGES IN DIRECTION WHERE FITTINGS ARE REQUIRED AND AT ALL MANHOLES/CLEANOUTS AT THE DISCRETION OF THE WATER & SEWER DEPARTMENT.
- CONTRACTOR MUST HAVE A STATE OF TENNESSEE LICENSE, MUNICIPAL UTILITY (MU) CLASSIFICATION, TO PERFORM WORK.
- CONTRACTOR SHALL COORDINATE ALL MAIN LINE WATER TAPS WITH THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT.
- BACKFLOW PREVENTERS ON DOMESTIC AND FIRE LINE SHALL BE APPROVED BY THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT PRIOR TO ORDERING.
- FIRE LINE FROM THE POINT OF SERVICE AS SHOWN ON THE SITE PLAN SHALL BE A TENNESSEE LICENSED FIRE LINE CONTRACTOR.
- PRIOR TO BIDDING, IT IS RECOMMENDED THE CONTRACTOR CONTACT THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT TO OBTAIN ANY AND ALL FEES REQUIRED FOR TAPPING AND SERVICE FEES. ALL FEES REQUIRED FOR WATER LINE CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.

SANITARY SEWER NOTES:

- THE CONTRACTOR MUST NOTIFY THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT FOR SEWER INSPECTION PRIOR TO STARTING WORK.
- THE CONTRACTOR, FOR BUDGET PURPOSES, SHOULD CHECK WITH CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT FOR CONNECTION FEES, WHICH MAY BE SUBSTANTIAL.
- CONTRACTORS, FOR SEWER WORK, MUST BE APPROVED BY THE CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT.
- COORDINATES OR DIMENSIONS SHOWN ARE TO HORIZONTAL CENTERLINE OF PIPE OR FITTING OR TO CENTERLINE OF MANHOLE.
- THE TOP ELEVATION OF ALL MANHOLES/CLEANOUTS IN PAVED AREAS SHALL MATCH FINISH GRADE. THE TOP ELEVATION OF ALL MANHOLES/CLEANOUTS IN GRASSY AREAS SHALL BE FLUSH WITH SOIL GRADE AS SHOWN ON THE GRADING PLAN.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET. THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE SHALL BE 18 INCHES SHOULD A CROSSING BE LESS THAN 18 INCHES. THE LOWER UTILITY SHALL BE ENCASED IN CONCRETE FOR A DISTANCE OF 10 FEET IN EACH DIRECTION FROM THE CROSSING.
- COMPLETE SPECIFICATIONS FOR THE SEWER LINES ARE ON FILE AT CITY OF CROSSVILLE WATER AND SEWER DEPARTMENT.
- SANITARY SEWER WYES AND 45° BENDS ARE TO BE THE SAME MATERIAL AND CLASS/WALL THICKNESS AS THE MAINLINE PIPE.
- SEWER CONSTRUCTION MUST BE IN ACCORDANCE WITH ALL CITY OF CROSSVILLE AND STATE OF TENNESSEE UTILITY SPECIFICATIONS AND DRAWINGS.
- CONTRACTOR MUST HAVE A STATE OF TENNESSEE LICENSE, MUNICIPAL UTILITY (MU) CLASSIFICATION, TO PERFORM WORK.
- THE EXISTING SEWER MAIN AND/OR MANHOLES UTILIZED OR ALTERED BY THIS PROJECT MUST BE TESTED BEFORE AND AFTER CONSTRUCTION. SHOULD THE SEWER NOT BE TESTED PRIOR TO CONSTRUCTION AND DEFECTS FOUND AFTER CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS OR HER EXPENSE.
- ALL SANITARY SEWER PIPING SHALL BE SDR 26 AND SHALL MEET THE CITY OF CROSSVILLE WATER AND SANITARY SEWER SPECIFICATIONS.
- THE LOCATION OF THE EXISTING SANITARY SEWER FORCE MAIN IS APPROXIMATE. THE CONTRACTOR SHALL LOCATE THE FORCE MAIN PRIOR TO BEGINNING ANY OTHER WORK.

Upland Design Group
 P.O. BOX 1026
 CROSSVILLE, TN 38537
 Ph. 931.484.7541
 www.uplanddesigngroup.com

CES
 CIVIL ENGINEERING AND SURVEYING, LLC
 214 EAST STEVENS STREET
 COOKEVILLE, TENNESSEE 38501
 Ph. 931.528.5266
 Fax. 931.528.7505
 www.civileng.com

CUMBERLAND COUNTY HIGH SCHOOL:
NEW AUDITORIUM
 CUMBERLAND COUNTY SCHOOL BOARD

LOCATION
 CROSSVILLE, TN

OWNER
 CUMBERLAND COUNTY SCHOOL BOARD

SEAL
 DAVID SCOTT NICHOLS
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TENNESSEE
 No. 185288
 12/23

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NO.	DESCRIPTION	DATE

JOB NO.
2229

ISSUE DATE
 1-30-2023

SHEET TITLE
 UTILITY PLAN

DRAWN
 DSN

REVIEW
C3.1

DSN

DOOR CAPACITY LEGEND

DOOR CAPACITY BASED ON IBC 2012 TABLE 1005.1 AND NFPA TABLE 7.3.3.1 WITH SPRINKLER SYSTEM

D1	SINGLE 36" DOOR 34" / EXIT 0.27 / PERSON 1 DOOR X 170 PERSONS = 170 PERSON EXIT CAPACITY
D2	DOUBLE 36" DOOR 35" / EXIT 0.27 / PERSON 2 DOORS X 175 PERSONS = 350 PERSON EXIT CAPACITY
D3	SINGLE 48" DOOR 46" / EXIT 0.27 / PERSON 1 DOOR X 230 PERSONS = 230 PERSON EXIT CAPACITY
D4	DOUBLE 48" DOOR 47" / EXIT 0.27 / PERSON 2 DOORS X 235 PERSONS = 470 PERSON EXIT CAPACITY

LIFE SAFETY SYMBOLS

- INDICATES OCCUPANT LOAD AT EXIT
- FIRE ALARM MANUAL PULL STATION - MOUNT 48" A.F.F.
- FIRE EXTINGUISHER CABINET
- BRACKET MOUNTED FIRE EXTINGUISHER
- FIRE ALARM STROBE LIGHT - MOUNT 80" A.F.F., BUT NO CLOSER THAN 6" TO CEILING
- FIRE ALARM COMBINATION AUDIBLE/VISUAL UNIT - MOUNT 80" A.F.F., BUT NO CLOSER THAN 6" TO CEILING
- MAGNETIC HOLD OPEN DEVICE CONNECTED TO FIRE ALARM CONTROL PANEL
- SMOKE DETECTOR
- HEAT RISE DETECTOR
- DUCT DETECTOR
- FIRE ALARM CONTROL PANEL - PROVIDED WITH BATTERY BACKUP PER NFPA REQUIREMENTS
- FIRE ALARM ANNUNCIATOR PANEL - PROVIDED WITH BATTERY BACKUP PER NFPA REQUIREMENTS
- DOOR EXIT REQUIREMENT CALCULATIONS
- EXIT SIGN - SINGLE OR DOUBLE FACE, WALL OR CLG. MOUNTED, AS INDICATED BY SYMBOL. DIRECTIONAL ARROWS SHALL BE PROVIDED AS SHOWN. EXIT SIGN SHALL BE EQUIPPED WITH A BATTERY PACK FOR OPERATION DURING LOSS OF NORMAL BUILDING POWER
- EXTERIOR EMERGENCY LIGHTING UNIT

OCCUPANT LOAD

TOTAL OCCUPANT LOAD (ENTIRE BUILDING): 1,693 PERSONS
 MAIN ENTRANCE BANK OF DOORS INTO LOBBY MUST HANDLE HALF THE OCCUPANCY PER IBC 2012 1028.2
 TOTAL AUDITORIUM OCCUPANT LOAD - 1,193 PERSONS
 REQUIRED MAIN ENTRANCE BANK OF DOORS - AT LEAST 600 PERSONS. THE CAPACITY OF THE PAIR OF DOUBLE DOORS ON ONE SIDE OF THE ENTRANCE INTO THE LOBBY IS 700 PERSONS.

FLOOR AREA PER OCCUPANT

IBC 2012 EDITION SECTION 506.1
 THEATER (ASSEMBLY - A1)
 ALLOWABLE AREA PER STORY: $A_a = [A_t + (A_t \times I_f)] + [A_t \times I_s]$
 $A_a = [8,500 + (8,500 \times .75)] + [8,500 \times 3]$
 $A_a = [8,500 + 6,375 + 25,500]$
 $A_a = 40,375$ SQUARE FEET ALLOWABLE PER STORY - THEATER
 26,272 SQUARE FEET ACTUAL
 AUTOMATIC SPRINKLER SYSTEM INCREASE - IBC 2012 EDITION SECTION 506.3
 300% INCREASE ($I_s = 3$) FOR BUILDINGS WITH NO MORE THAN ONE STORY ABOVE GRADE PLAN.
 FRONTAGE INCREASE - IBC 2012 EDITION 506.2
 FRONTAGE INCREASE: $I_f = [F / P - 0.25] W / 30$
 If = $[691'6" / 601'6" - 0.25] 30 / 30$
 If = $[0.75] 1.0$
 If = 0.75

FLOOR AREA PER OCCUPANT

IBC 2012 EDITION TABLE 1004.1 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

(A1) X	ASSEMBLY USE - STANDING SPACE - 55 S.F. NET / PERSON
(A2) X	ASSEMBLY USE FIXED SEATS (THEATER SEATING) - NUMBER OF SEATS
(B) X	BUSINESS USE - 100 S.F. GROSS / PERSON
(C) X	MECHANICAL / STORAGE USE - 300 S.F. GROSS / PERSON
(D) X	STAGES AND PLATFORMS - 15 S.F. GROSS / PERSON

RATED WALL SYMBOL LEGEND

SMOKE PARTITION WALL PER IBC 2012-SECTION 710 AND NFPA 2012-SECTION 8.4. WALL SHALL EXTEND FROM FLOOR OR FOUNDATION TO UNDERSIDE OF ROOF DECK ABOVE AND LIMIT THE TRANSFER OF SMOKE.

1 HOUR RATED WALL: FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONLOAD BEARING), UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HWD 0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HWD 0030 (WALL PARALLEL TO DECK FLUTES)

NOTES:
 ALL INTERIOR WALLS SHALL EXTEND TO DECK ABOVE UNLESS NOTED OTHERWISE.

PROVIDE 3" HIGH, BRIGHT RED STENCILED LETTERS VISIBLE ABOVE CEILING AT ALL CHANGES IN DIRECTION AND AT 30' INTERVALS ALONG ALL RATED WALLS READING:
 - HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS. (INCORPORATE CORRECT WALL DESIGNATIONS) FIRE WALLS SHALL BE STENCILED ON BOTH SIDES OF WALLS.

STAIR EGRESS CAPACITY

IBC 1005.3.1 AND NFPA 2012 - TABLE 7.3.3.1
 CAPACITY FOR STAIRS IN A SPRINKLER BUILDING SHALL BE CALCULATED USING AN EGRESS CAPACITY FACTOR 0.3 INCH PER OCCUPANT

PER NFPA 2012 - 7.3.3.2, STAIRS GREATER THAN 44" ARE PERMITTED AN INCREASE USING THE EQUATION: $C = 146.7 + (.1W_h - .44) / 0.218$

STAIR TYPE	WIDTH OF STAIR	CAPACITY FACTOR	OCCUPANT CAPACITY
ST-1	7'-3"	NFPA FORMULA	344 OCCUPANTS
ST-2	4'-0"	NFPA FORMULA	165 OCCUPANTS

IBC 1005.3.1 AND NFPA 2012 - 7.3.1.4 - EXITS SERVING MORE THAN ONE STORY WHERE AN EXIT SERVES MORE THAN ONE STORY, ONLY THE OCCUPANT LOAD OF EACH STORY CONSIDERED INDIVIDUALLY SHALL BE USED IN COMPUTING THE REQUIRED CAPACITY OF THE EXIT AT THAT STORY.

PLUMBING FIXTURE COUNT

IPC 2012 EDITION 403.1.1 AND TABLE 403.1

THE AUDITORIUM WILL TYPICALLY HAVE A TOTAL MAXIMUM OCCUPANCY LOAD OF 1457. IPC REQUIRES A FIXTURE COUNT OF 1 WATER CLOSET (W.C.) PER 125 MALES OCCUPANTS AND 1 W.C. PER 65 FEMALE OCCUPANTS WITHIN AN A-1 ASSEMBLY USAGE. PER IPC 403.1.1 TOTAL OCCUPANT LOAD IS TO BE DIVIDED IN HALF TO GET A TOTAL OCCUPANT LOAD FOR EACH SEX.

WATER CLOSETS (W.C.)
 1457 OCCUPANTS / 2 = 729 MALES AND 729 FEMALES
 729 OCCUPANTS / 125 OCC. = 6 W.C. PER MALE
 - IPC 419.2 - URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67 PERCENT OF THE REQUIRED WATER CLOSETS IN ASSEMBLY OCCUPANCY
 729 OCCUPANTS / 65 OCC. = 12 W.C. PER FEMALE

PUBLICLY ACCESSIBLE W.C. IN FACILITY:
 FEMALES: 12 W.C.
 MALES: 5 W.C. + 6 URINALS

LAVATORY COUNTS
 MIN. REQUIRED PER IPC IS 1 PER 200 OCCUPANTS
 1457 OCCUPANTS / 200 OCC. = 8 LAVATORIES
 CURRENT PUBLICLY ACCESSIBLE LAVATORIES IN FACILITY: 9 MALES 9 FEMALES
 FACILITY EXCEEDS THE REQUIRED NUMBER OF LAVATORIES

DRINKING FOUNTAINS
 MIN. REQUIRED PER IPC IS 1 PER 500 OCCUPANTS
 1457 OCCUPANTS / 500 OCC. = 3 D.F.
 CURRENT PUBLICLY ACCESSIBLE DRINKING FOUNTAINS IN FACILITY: 4 D.F.
 FACILITY MEETS THE REQUIRED NUMBER OF DRINKING FOUNTAINS

SERVICE SINKS
 MIN. REQUIRED PER IPC IS 1 TOTAL
 CURRENT SERVICE SINKS IN FACILITY: 1

BUILDING CODE ANALYSIS

I. GOVERNING CODES
 LISTED BELOW ARE THE REGULATORY REQUIREMENTS THAT APPLY TO THIS PROJECT. REFER TO SECTION 01 41 14 REGULATORY REQUIREMENTS. THIS LIST IS PROVIDED AS A CONVENIENCE TO THE CONTRACTOR AND IS NOT TO BE CONSIDERED AN INCLUSIVE LIST OF CODES AND REGULATIONS THAT MAY APPLY. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT CODES, STANDARDS, REGULATIONS AND LAWS.

- (A) INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC), EXCEPT FOR:
 - CHAPTER 11 ACCESSIBILITY; AND,
 - CHAPTER 34, SECTION 3411 ACCESSIBILITY FOR EXISTING BUILDINGS;
- (B) THE INTERNATIONAL FUEL GAS CODE (IFGC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC).
- (C) THE INTERNATIONAL MECHANICAL CODE (IMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC).
- (D) THE INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC).
- (E) THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC), EXCEPT THAT THE PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE, 2009 EDITION, SHALL APPLY TO THE FOLLOWING OCCUPANCY CLASSIFICATIONS AS DEFINED BY THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION:
 - MODERATE-HAZARD FACTORY INDUSTRIAL, GROUP F-1;
 - LOW-HAZARD FACTORY INDUSTRIAL, GROUP F-2;
 - MODERATE-HAZARD STORAGE, GROUP S-1; AND,
 - LOW-HAZARD STORAGE, GROUP S-2;
- (H) THE INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC).
- (I) FOR STATE BUILDINGS, EDUCATIONAL OCCUPANCIES AND ANY OTHER OCCUPANCY REQUIRING AN INSPECTION BY THE STATE FIRE MARSHAL FOR INITIAL LICENSURE, NFPA 101 - LIFE SAFETY CODE, 2012 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- (J) NO PROVISION OF THE PRECEDING CITED PUBLICATIONS SHALL BE ADOPTED THAT CONFLICTS WITH:
 - THE INSTALLATION AND SERVICE STANDARDS OF PORTABLE FIRE EXTINGUISHERS AND FIXED FIRE EXTINGUISHER SYSTEMS IN TENN. COMP. R. & REGS. 0780-02-14-.02;
 - THE STANDARDS FOR ENGAGING IN THE LIQUEFIED PETROLEUM GAS BUSINESS IN TENN. COMP. R. & REGS. 0780-02-17-.02;
 - NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
 - TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

II. OCCUPANCY CLASSIFICATION
 ASSEMBLY - ASSEMBLY GROUP A-1

III. CONSTRUCTION TYPE
 II-B, SPRINKLERED (IBC TABLES 503/601)

IV. HEIGHT CALCULATIONS
 MAX ALLOWABLE HEIGHT: 55 FEET + 20 FEET (IBC 504.2) = 75 FEET TOTAL
 MAX ALLOWABLE STORIES: 2 STORIES - 1 STORY FOR SPRINKLER (IBC 504.2)

ACTUAL HEIGHT: 32 FEET
 ACTUAL STORIES: 1 STORY

V. FIRE PREVENTION & EGRESS
 FIRE RESISTIVE / CONSTRUCTION REQUIREMENTS (IBC TABLE 601)

STRUCTURAL FRAME: TYPE II-B
 BEARING WALLS - EXTERIOR: 0 HOURS
 BEARING WALLS - INTERIOR: 0 HOURS
 NON-BEARING PARTITIONS: 0 HOURS
 FLOOR CONSTRUCTION: 0 HOURS
 ROOF CONSTRUCTION: 0 HOURS

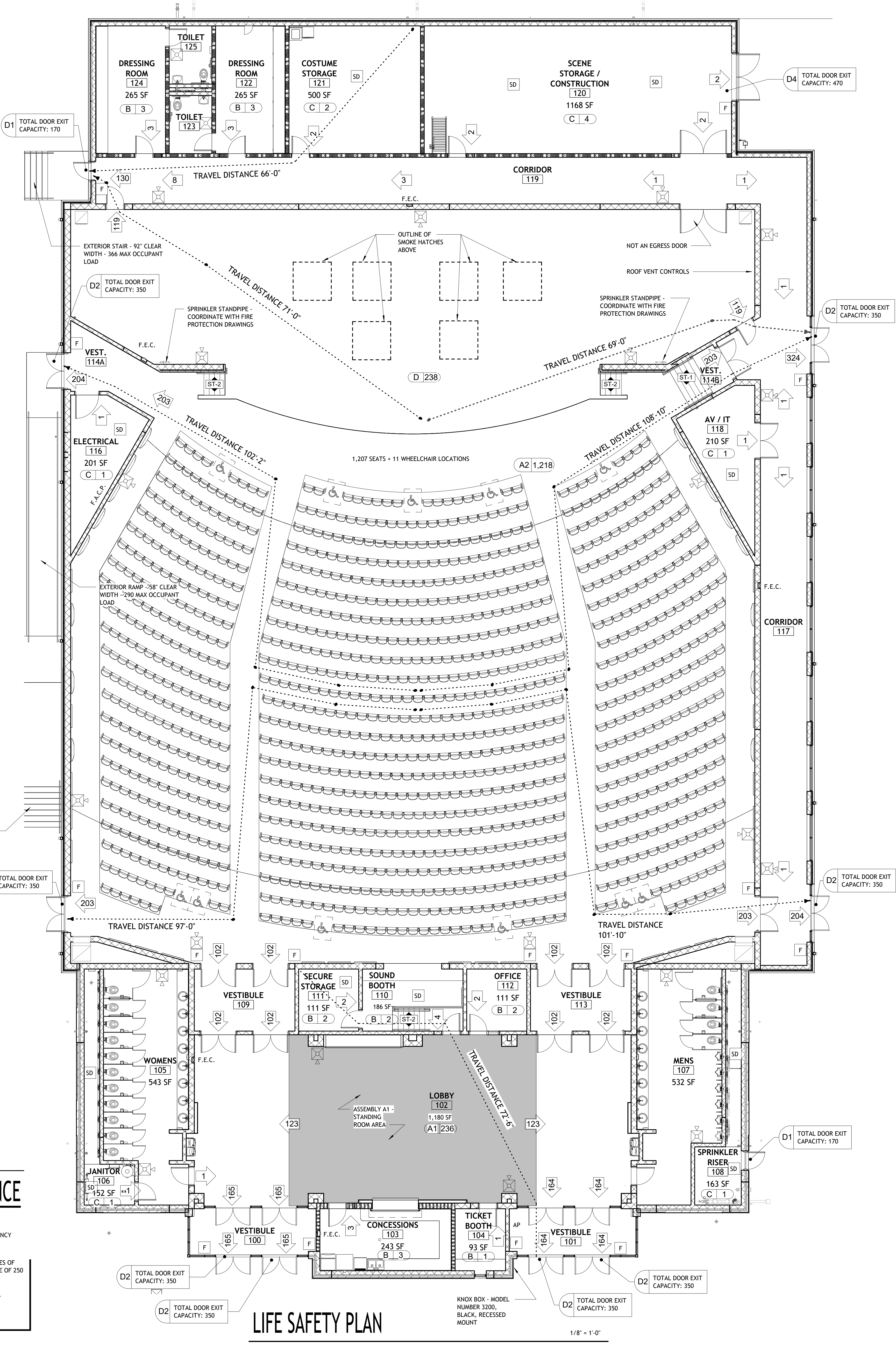
FIRE PROTECTION
 CORRIDOR SEPARATION (W/ SPRINKLER): 0 HOURS (IBC TABLE 1018.1)

STAGE HEIGHT IS 30'-10" PER IBC 410.3.1.1. SINCE THE STAGE HEIGHT IS UNDER 50', THE PROSCENIUM WALL DOES NOT NEED TO BE RATED PER IBC 410.3.4 AND NFPA 12.4.5.6.4. BECAUSE THE PROSCENIUM WALL DOES NOT NEED TO BE RATED, THE STAGE OPENING DOES NOT HAVE TO A FIRE CURTAIN.

STAGE IS MORE THAN 1000 SQ. FEET (3,651 SF) SO IT REQUIRES EMERGENCY VENTILATION PER IBC 410.3.7 - COORDINATE WITH M.P., & E DRAWINGS.

DRESSING ROOMS, SCENE DOCKS, WORKSHOPS AND STOREROOMS SHALL BE SEPARATED FROM THE STAGE BY 1-HOUR WALL FOR STAGE HEIGHT LESS THAN 50 FEET PER IBC 410.5.1 AND NFPA 12.3.2.1.2(2) AND 12.4.5.4.1.
 DRESSING ROOMS, SCENE DOCKS, PROPERTY ROOMS, WORKSHOPS, STOREROOMS SHALL BE SEPARATED FROM EACH OTHER BY 1-HOUR FIRE BARRIER PER IBC 410.5.1 AND NFPA 12.3.2.1.2(2) AND 12.4.5.4.1

AREAS OF REFUGE
 AREAS OF REFUGE ARE NOT REQUIRED AT STAIRWAYS IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM (IBC 1007.3, EXCEPTION 2)



MAXIMUM TRAVEL DISTANCE

NFPA 2012 EDITION 12.2.6 AND IBC 2012 EDITION TABLE 1016.2
 ALLOWABLE EXIT TRAVEL DISTANCE FOR A NEW ASSEMBLY OCCUPANCY WITH A SPRINKLER SYSTEM = 250 FEET

TWO HIGHEST TRAVEL DISTANCES WITH A SPRINKLER ARE DISTANCES OF 108'-10" AND 102'-2", WHICH ARE UNDER THE ALLOWABLE DISTANCE OF 250 FEET.

DEAD END CORRIDOR REQUIREMENTS - IBC 2012 - 1018.1 AND NFPA 12.2.5.1.3 (NEW ASSEMBLY OCCUPANCY): 20 FEET

LIFE SAFETY PLAN

1/8" = 1'-0"

Upland Design Group
 P.O. BOX 1026
 CROSSVILLE, TN 38557
 PH. 931 484 7541
 www.uplanddesigngroup.com

CUMBERLAND COUNTY HIGH SCHOOL:
NEW AUDITORIUM
 OWNER
 CUMBERLAND COUNTY SCHOOL BOARD
 LOCATION
 CROSSVILLE, TN

SEAL

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 REVISIONS
 NO. DESCRIPTION DATE

JOB NO.
2229
 ISSUE DATE
 1-30-23
 SHEET TITLE
 LIFE SAFETY PLAN
 DRAWN
 CWD
 REVIEW
 KAC
LS1.1

ROOM OCCUPANCY LOAD CALCULATION SUMMARY

Room #	Name	Area	2012 IBC Table 1004.1.2 Minimum Egress Requirements	Occupancy		
				OLF	Occupancy Load	Occupancy Load Actual
102	LOBBY	2190 SF	Assembly Areas without fixed seats, Standing Space - Net Area	7	308	236
103	CONCESSIONS	243 SF	Business Areas	100	3	3
104	TICKET BOOTH	93 SF	Business Areas	100	1	1
106	JANITOR	152 SF	Accessory storage areas, mechanical equipment room	300	1	1
108	SPRINKLER RISER	163 SF	Accessory storage areas, mechanical equipment room	300	1	1
112	OFFICE	111 SF	Business Areas	100	2	2
114	AUDITORIUM	10802 SF	Assembly with fixed seats and aisles, number of seats (see Section 1004.7)	9,055	1193	1193
115	STAGE	3662 SF	Stages and Platforms - Net Area	15	245	238
116	ELECTRICAL	201 SF	Accessory storage areas, mechanical equipment room	300	1	1
118	AV / IT	210 SF	Accessory storage areas, mechanical equipment room	300	1	1
120	SCENE STORAGE / CONSTRUCTION	1168 SF	Accessory storage areas, mechanical equipment room	300	4	4
121	COSTUME STORAGE	500 SF	Accessory storage areas, mechanical equipment room	300	2	2
122	DRESSING ROOM	265 SF	Business Areas	100	3	3
124	DRESSING ROOM	265 SF	Business Areas	100	3	3
01 - First Floor					1768	1689
110	SOUND BOOTH	186 SF	Business Areas	100	2	2
111	SECURE STORAGE	111 SF	Business Areas	100	2	2
SOUND BOOTH LEVEL					4	4
Grand total					1772	1693

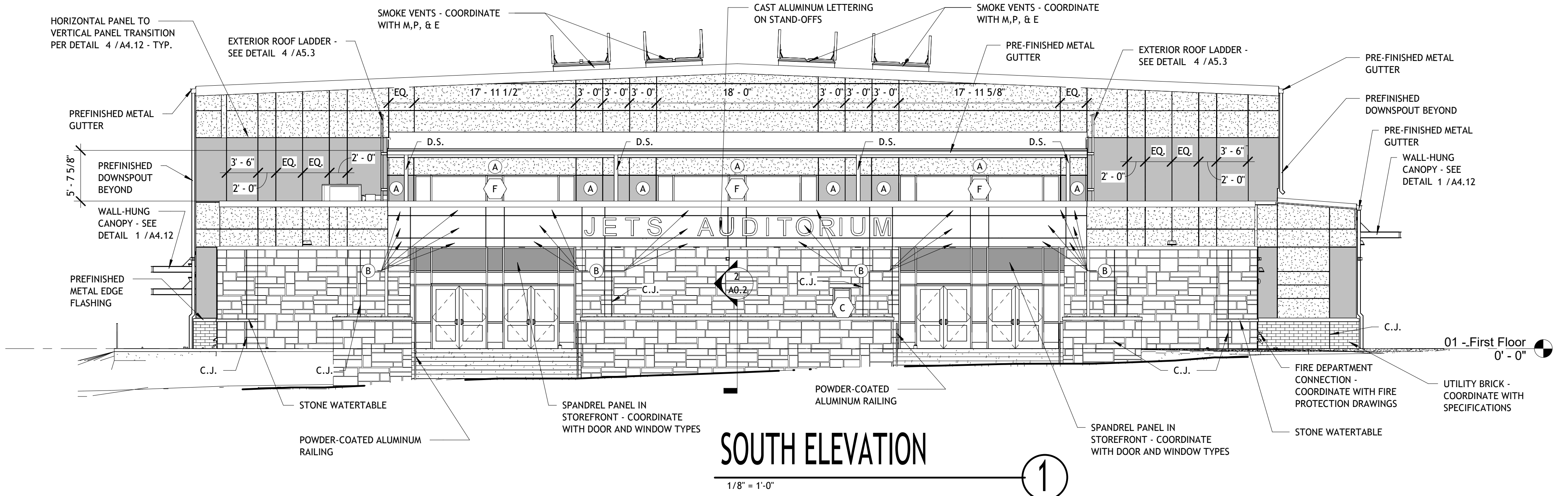
INSULATED METAL PANEL LEGEND

COORDINATE WITH SPECIFICATIONS, SECTION DETAILS AND MANUFACTURER'S REQUIREMENTS FOR CONNECTION AND JOINT DETAILS. COORDINATE SPACING AND PLACEMENT OF Z-FURRING AND/OR HAT CHANNELS WITH MANUFACTURER REQUIREMENTS FOR VERTICAL SUPPORTS AT JOINT LOCATIONS.

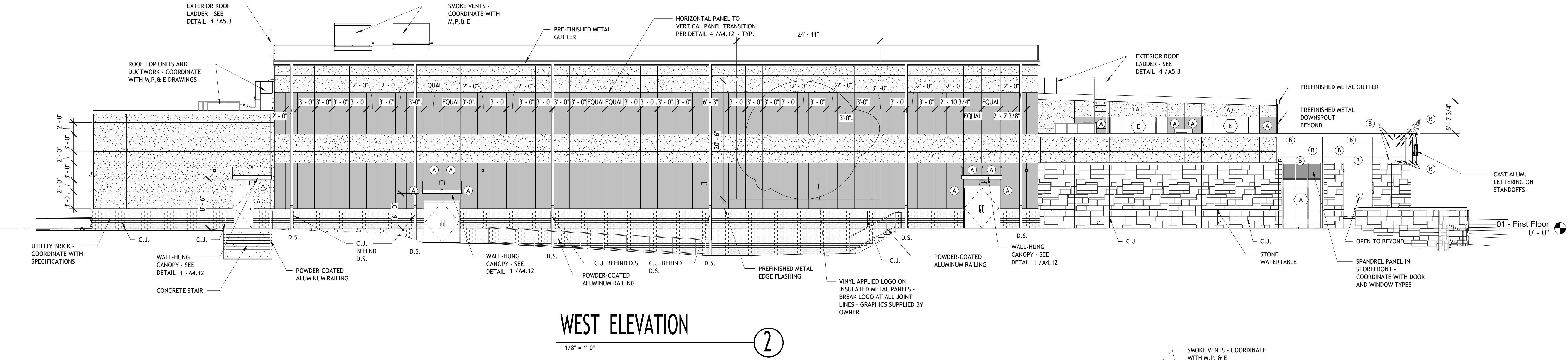
VERTICAL JOINTS PER DETAIL 3 /A4.12
 HORIZONTAL PANEL TO VERTICAL PANEL TRANSITION PER DETAIL 4 /A4.12

(A) - ACCENT COLOR PANEL (B) - ACCENT COLOR PANEL - TYPE 2

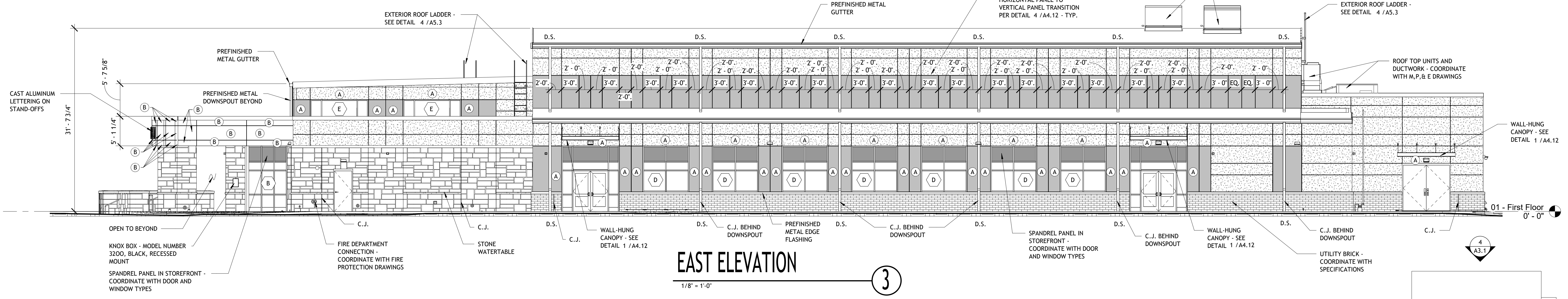
[Pattern] HORIZONTAL INSULATED METAL PANEL - TYPE 1
 [Pattern] HORIZONTAL INSULATED METAL - TYPE 2 - CURVE PANEL AT FRONT OF PORTICO
 [Pattern] VERTICAL INSULATED METAL PANEL



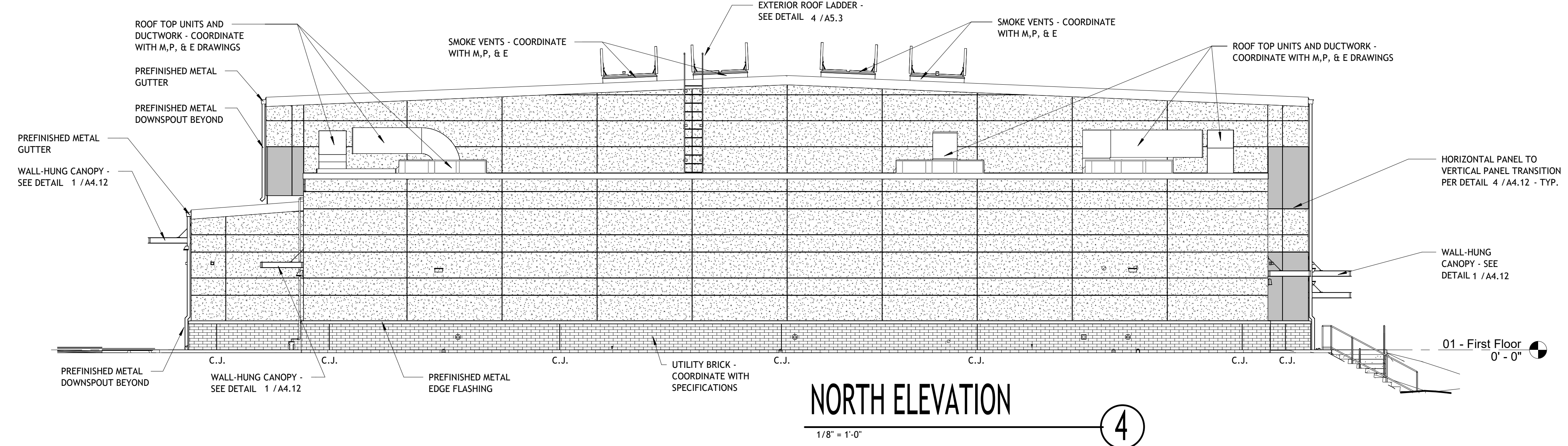
SOUTH ELEVATION
 1/8" = 1'-0" ①



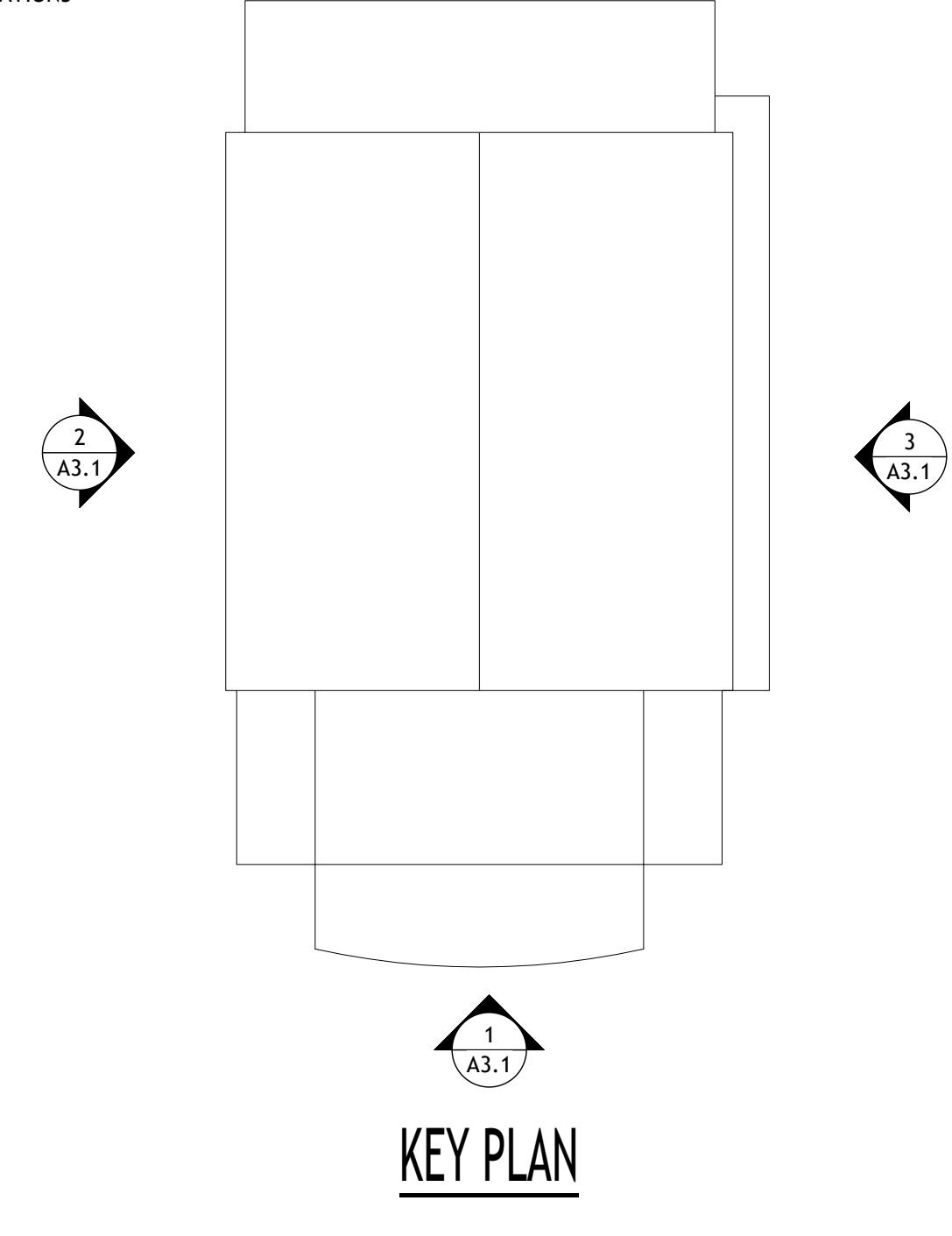
WEST ELEVATION
 1/8" = 1'-0" ②



EAST ELEVATION
 1/8" = 1'-0" ③



NORTH ELEVATION
 1/8" = 1'-0" ④



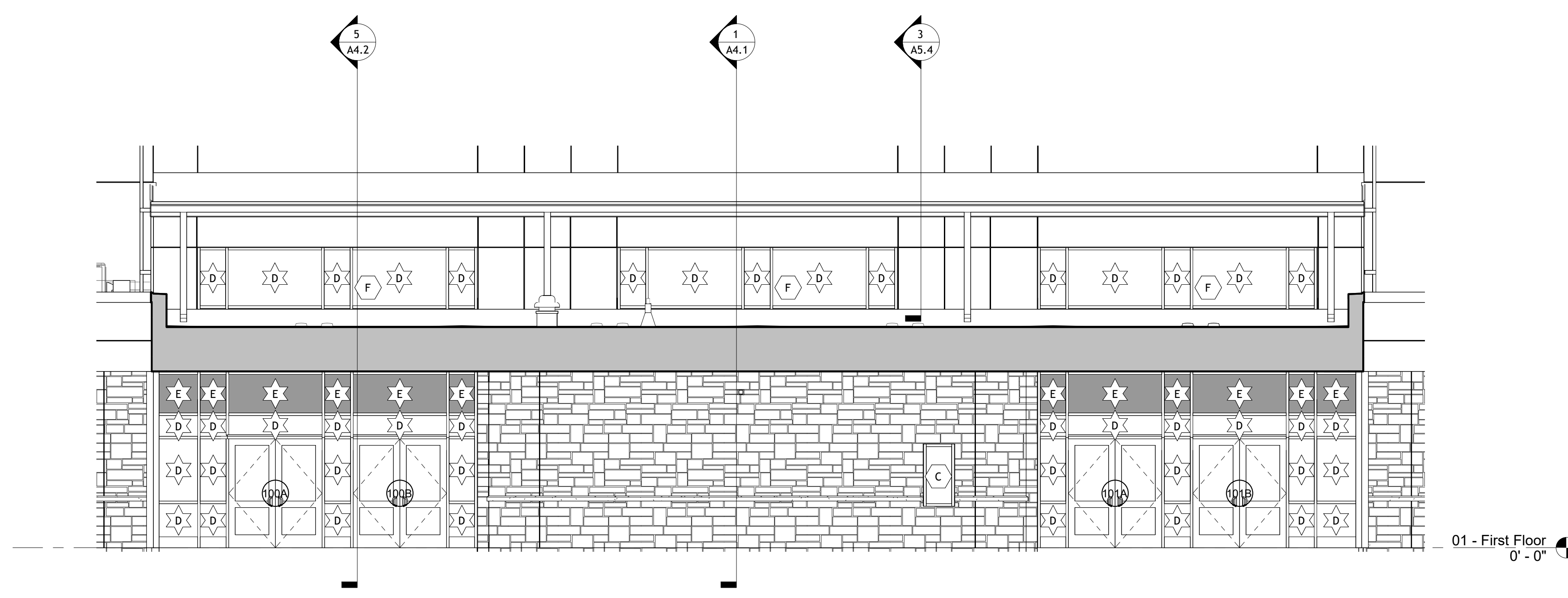
CUMBERLAND COUNTY HIGH SCHOOL:
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REVISIONS	NO.	DESCRIPTION	DATE

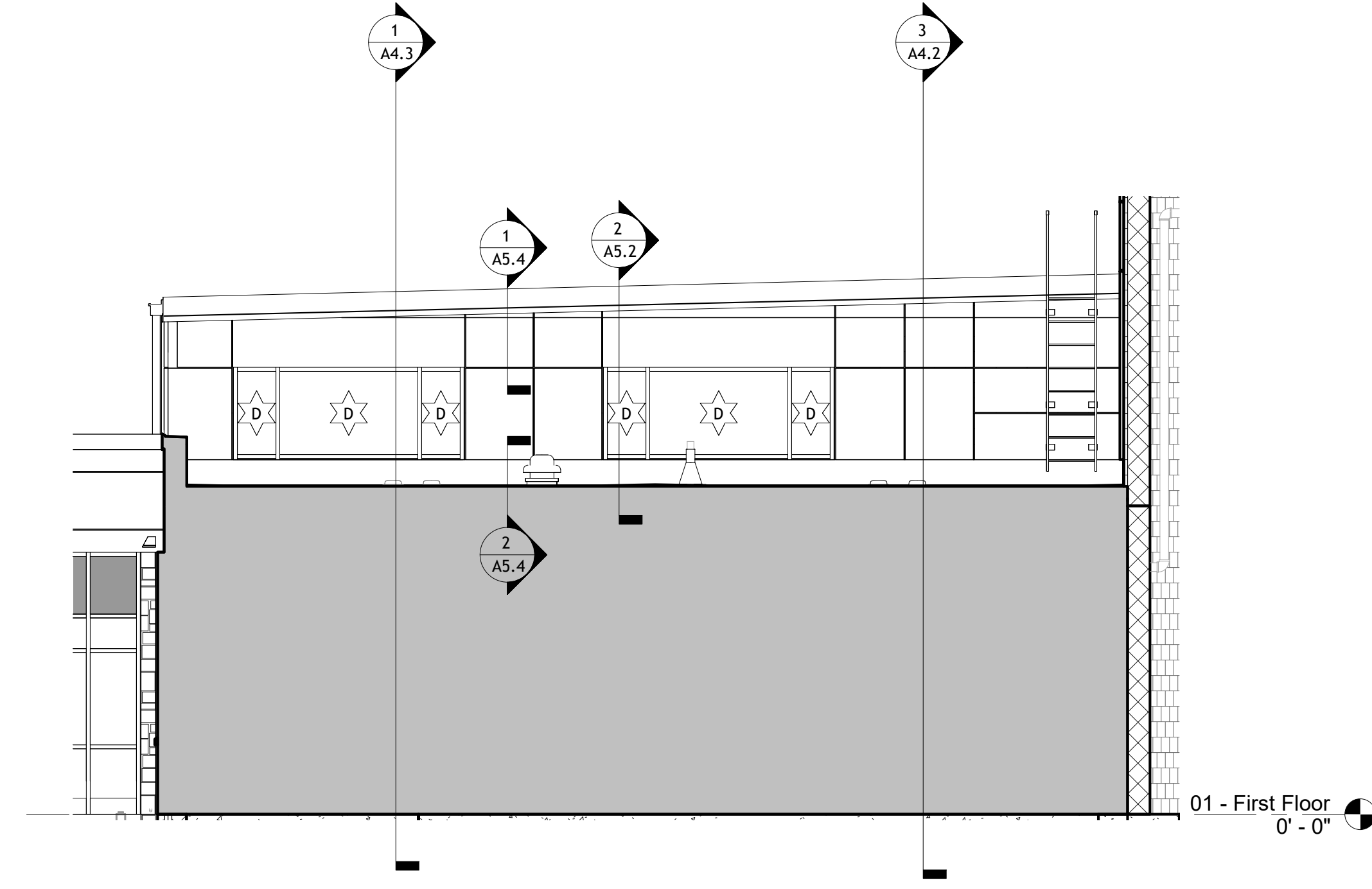
JOB NO.	2229
ISSUE DATE	1-30-23
SHEET TITLE	EXTERIOR ELEVATIONS
DRAWN	CWD
REVIEW	KAC
	A3.1



ENLARGED ELEVATION

3/16" = 1'-0"

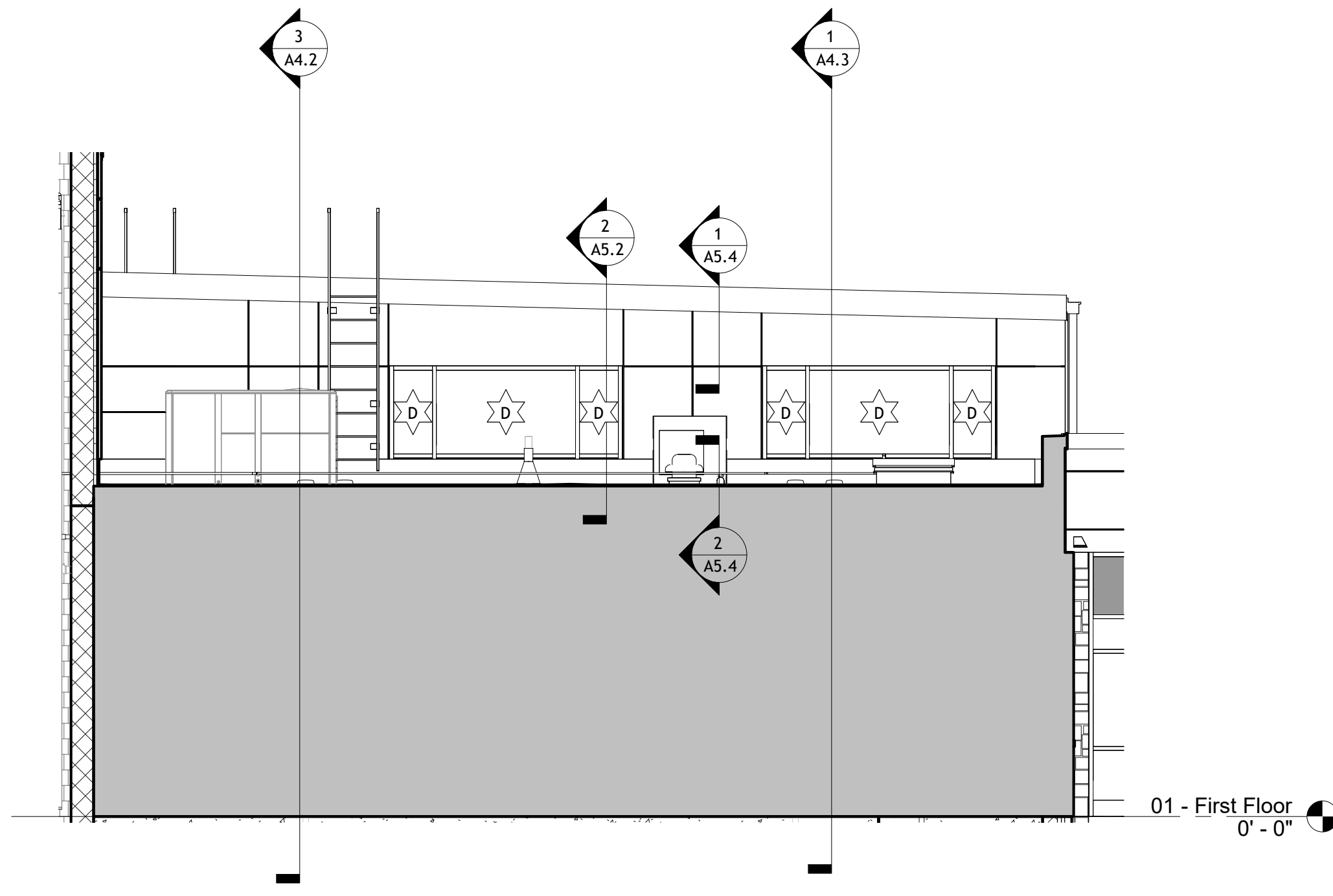
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ENLARGED ELEVATION

3/16" = 1'-0"

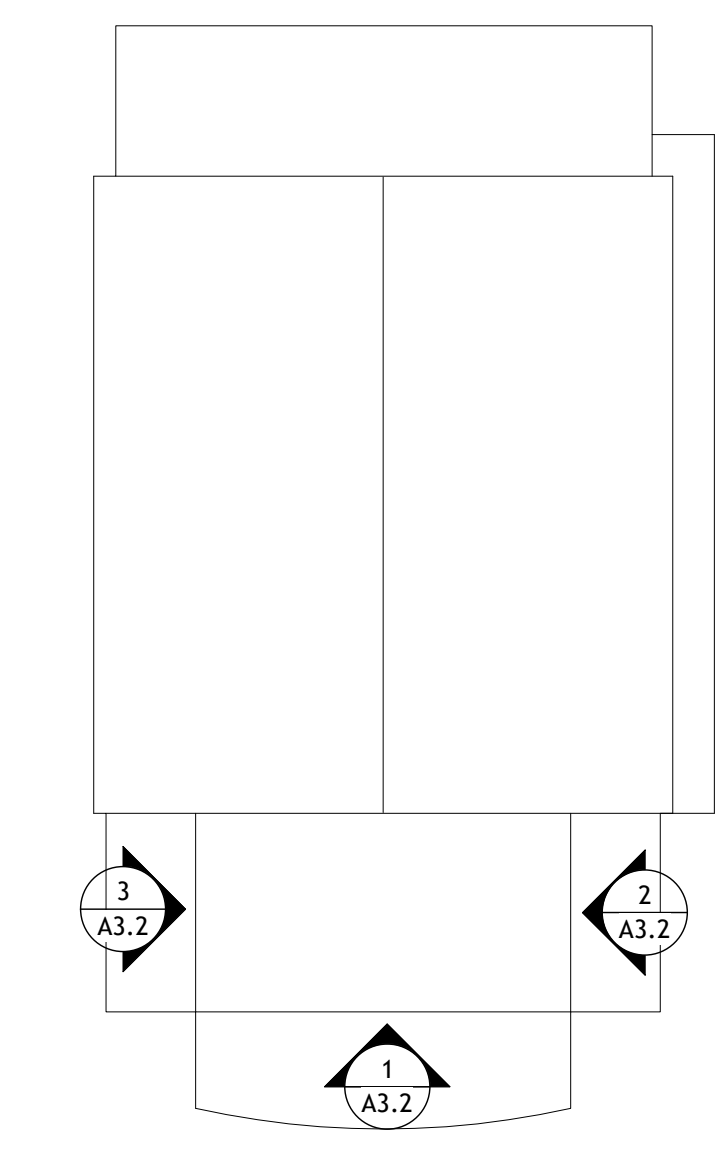
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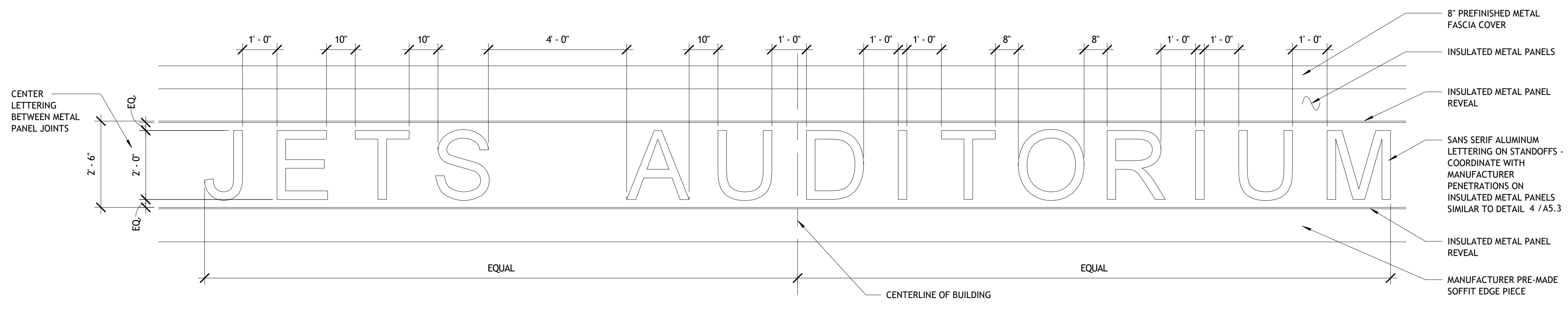
ENLARGED PLAN

3/16" = 1'-0"

3



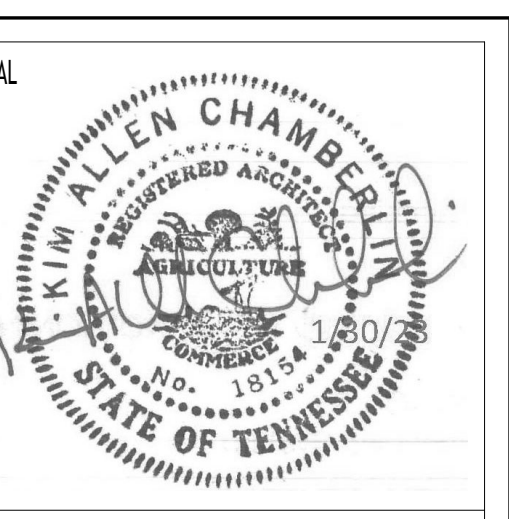
KEY PLAN



EXT. LETTERING

1/2" = 1'-0"

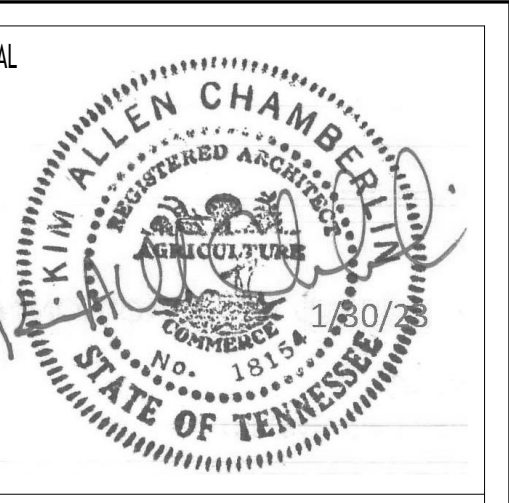
4



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REVISIONS		
NO.	DESCRIPTION	DATE

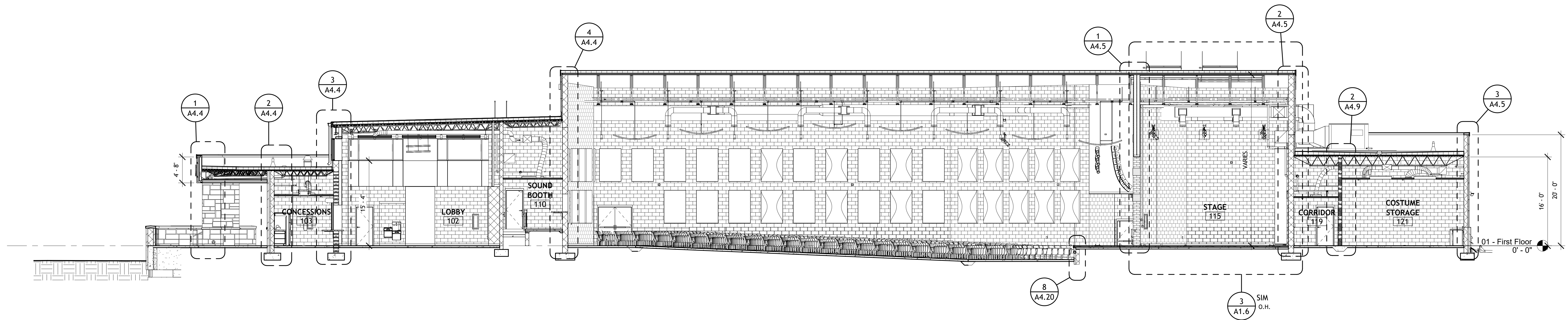
JOB NO.	2229
ISSUE DATE	1-30-23
SHEET TITLE	EXTERIOR ELEVATIONS
DRAWN	CWD
REVIEW	KAC
A3.2	



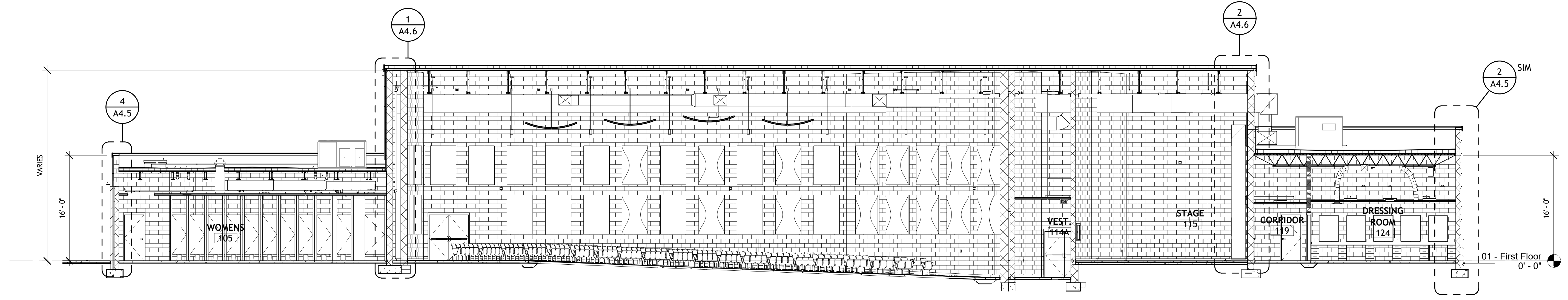
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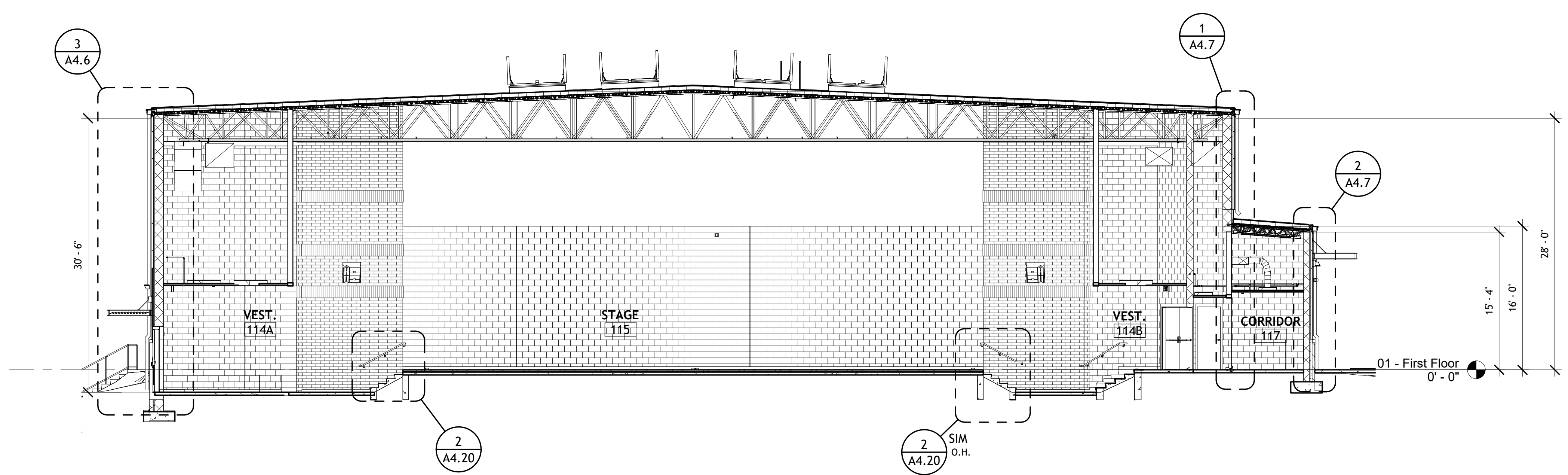
JOB NO. **2229**
ISSUE DATE **1-30-23**
SHEET TITLE **BUILDING SECTIONS**
DRAWN **CWD**
REVIEW **KAC**
A4.1



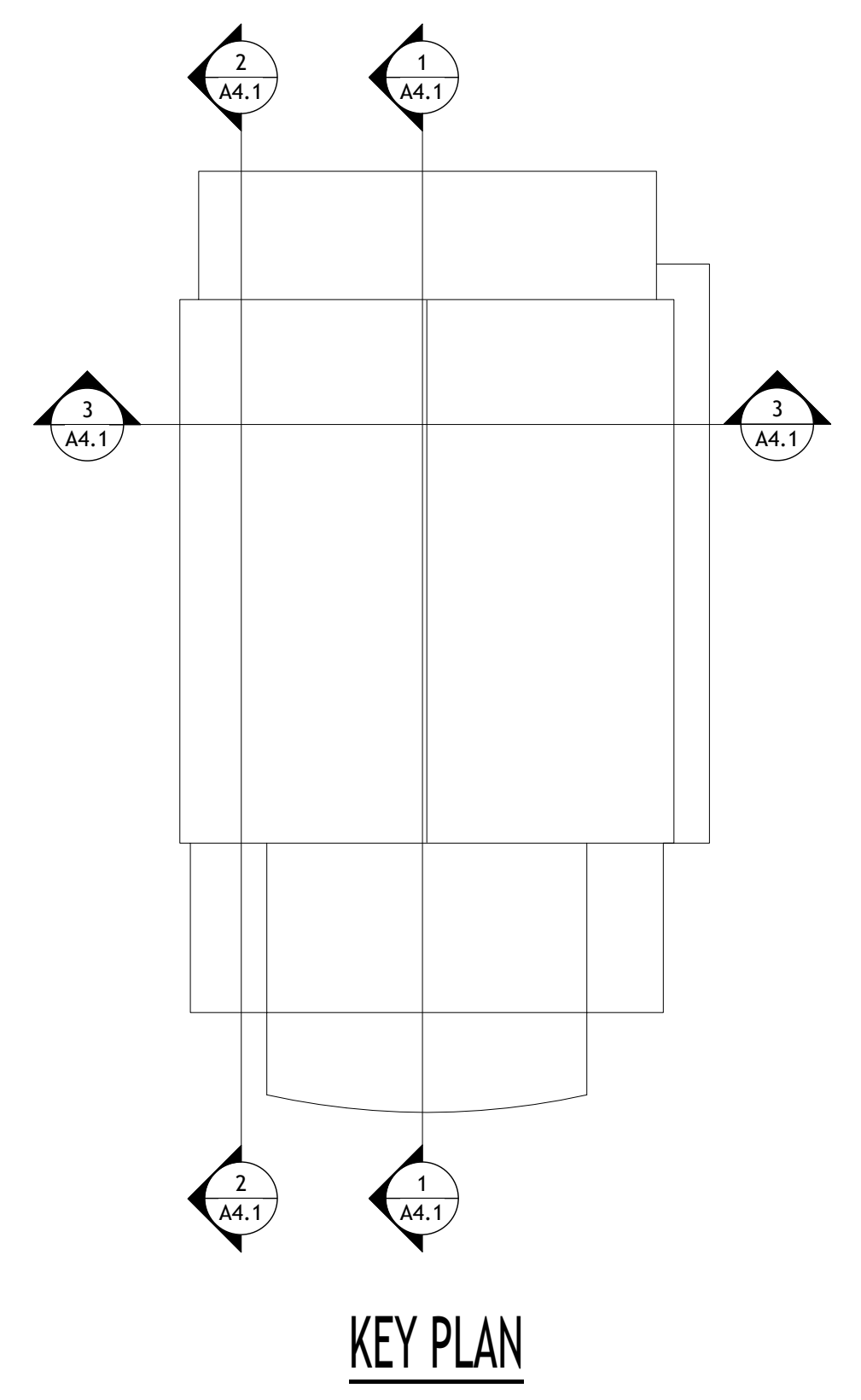
BUILDING SECTION 1
1/8" = 1'-0"



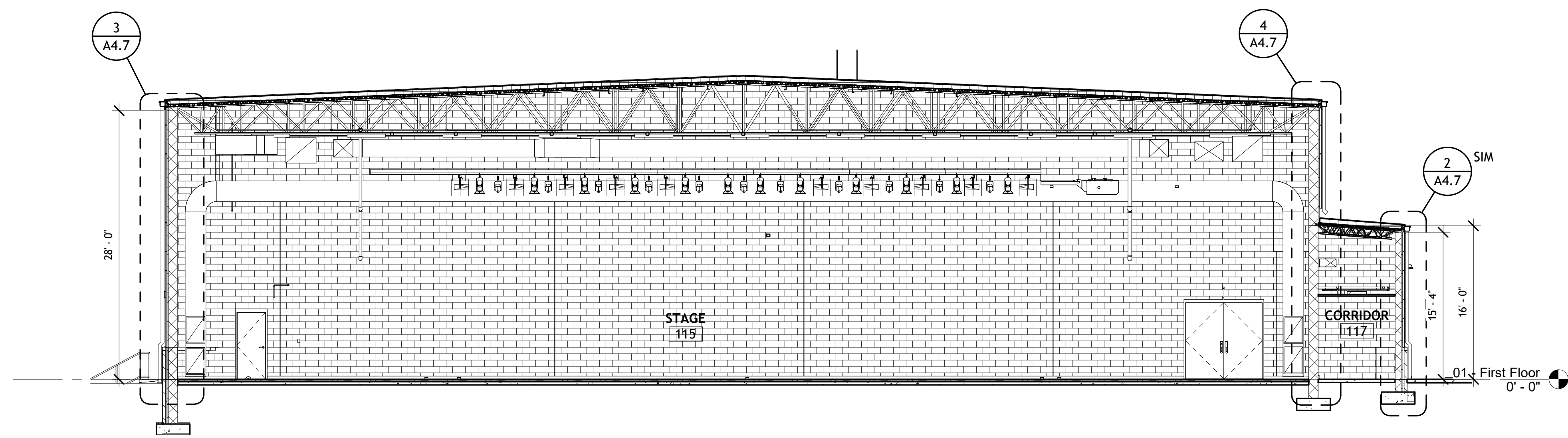
BUILDING SECTION 2
1/8" = 1'-0"



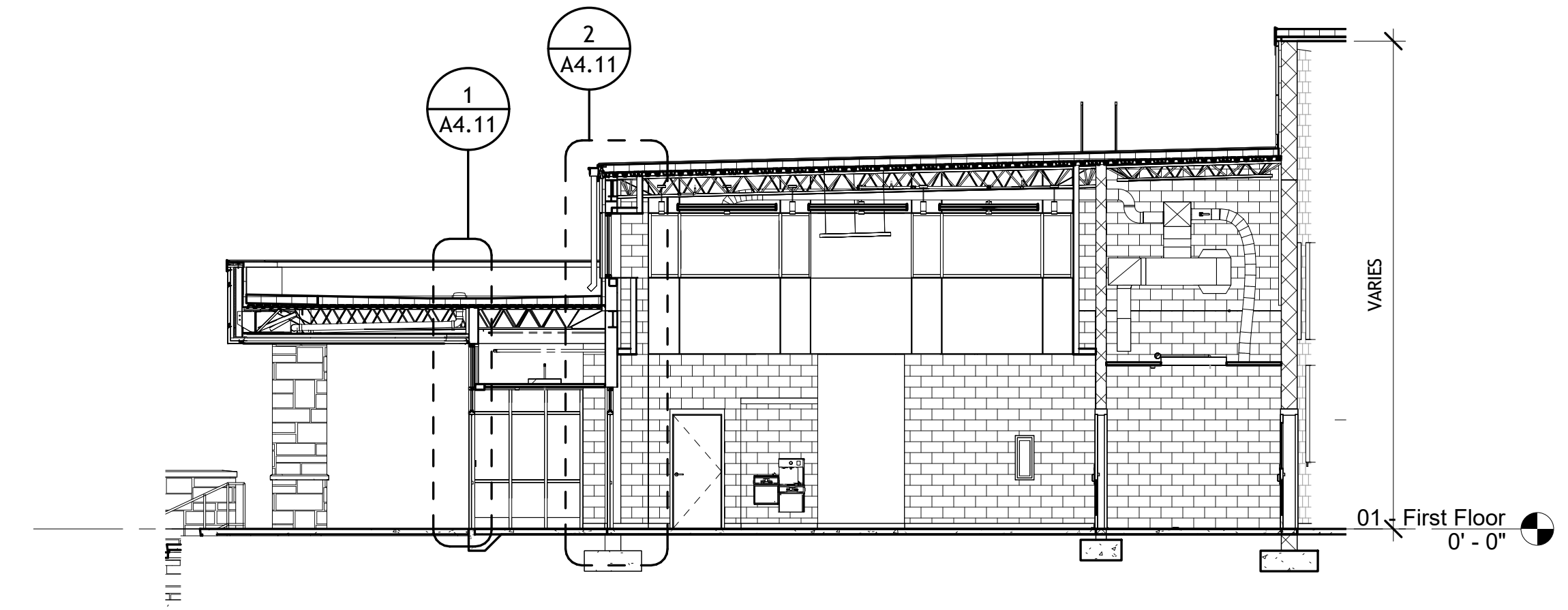
BUILDING SECTION 3
1/8" = 1'-0"



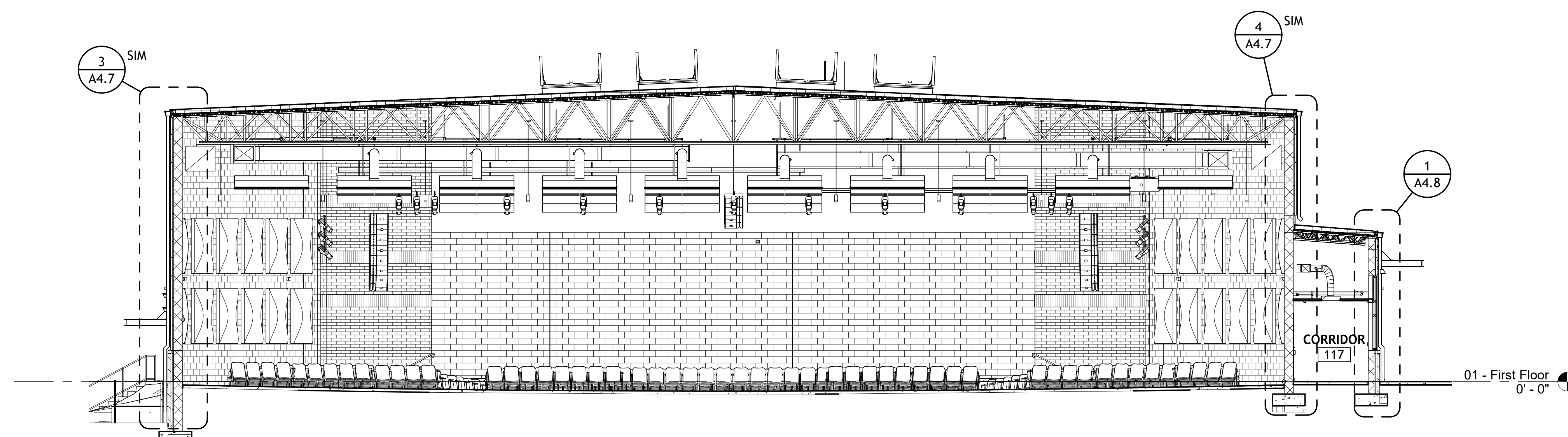
KEY PLAN



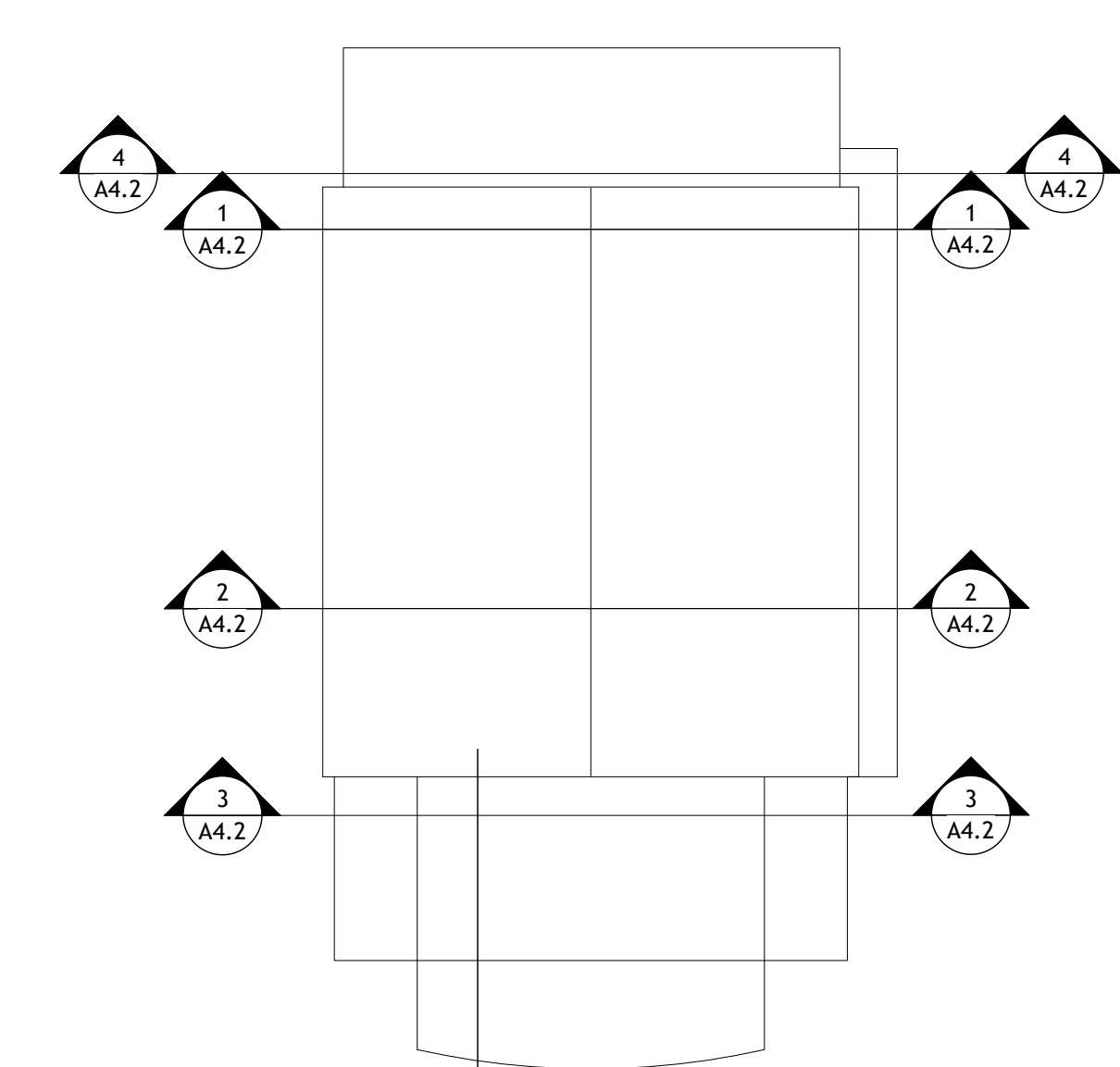
BUILDING SECTION 1
1/8" = 1'-0"



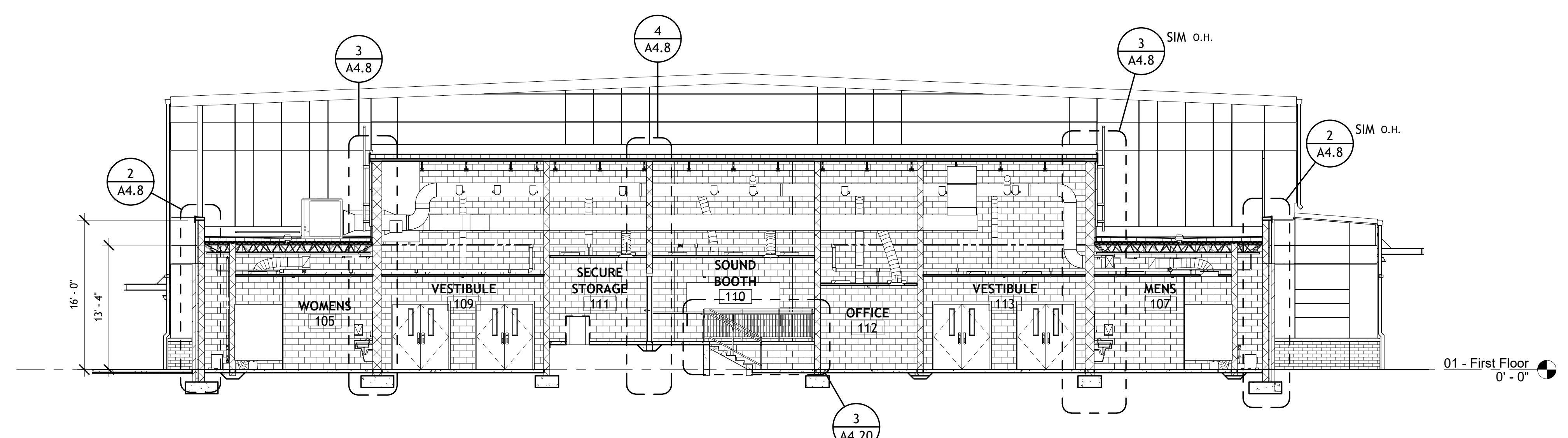
BUILDING SECTION 5
1/8" = 1'-0"



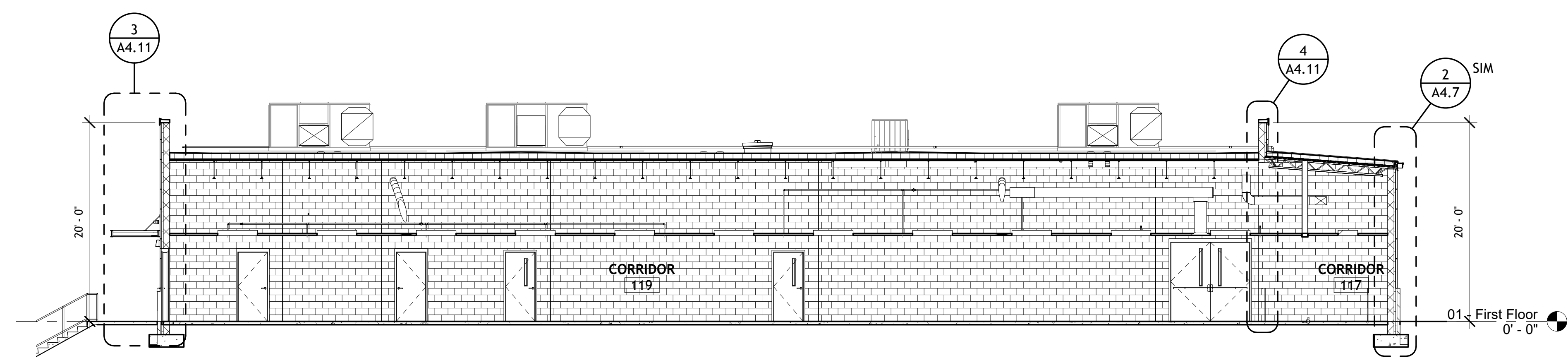
BUILDING SECTION 2
1/8" = 1'-0"



KEY PLAN



BUILDING SECTION 3
1/8" = 1'-0"



BUILDING SECTION 4
1/8" = 1'-0"

SEAL

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JOB NO. **2229**

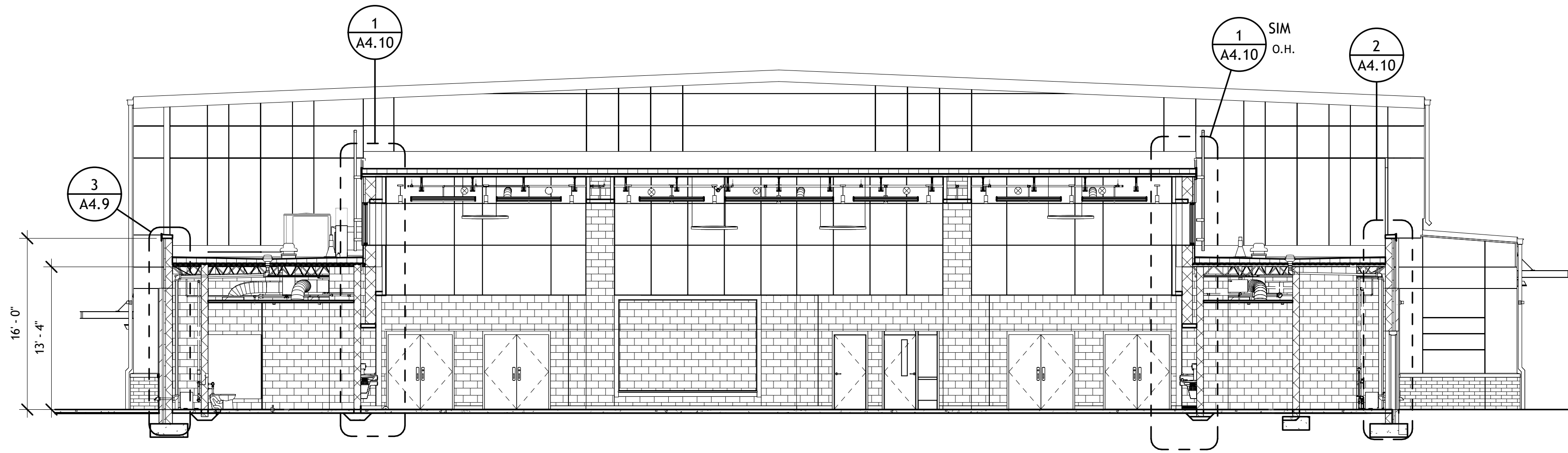
ISSUE DATE **1-30-23**

SHEET TITLE **BUILDING SECTIONS**

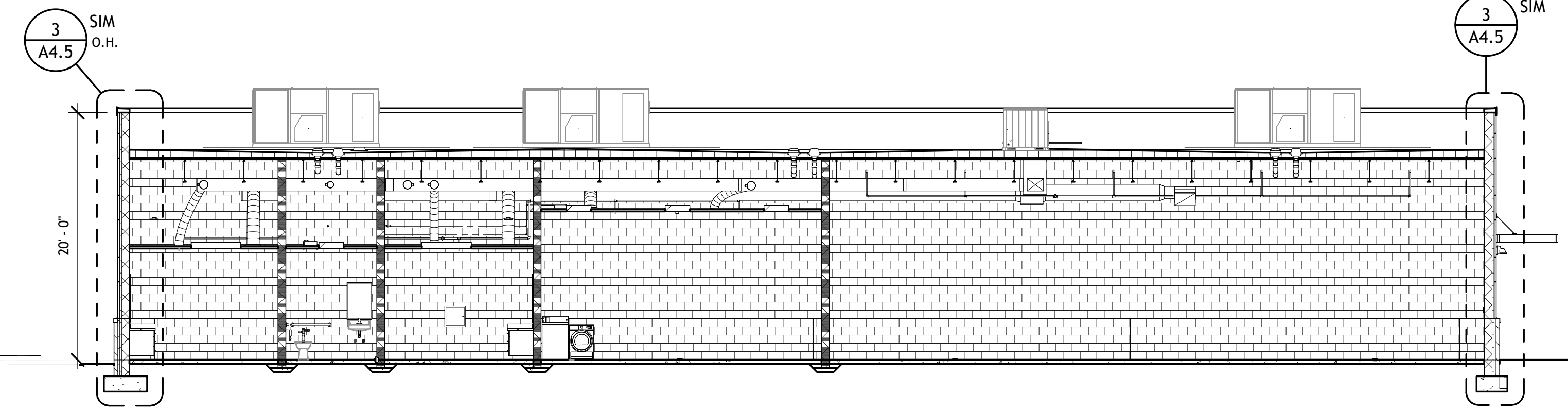
DRAWN **CWD**

REVIEW **KAC**

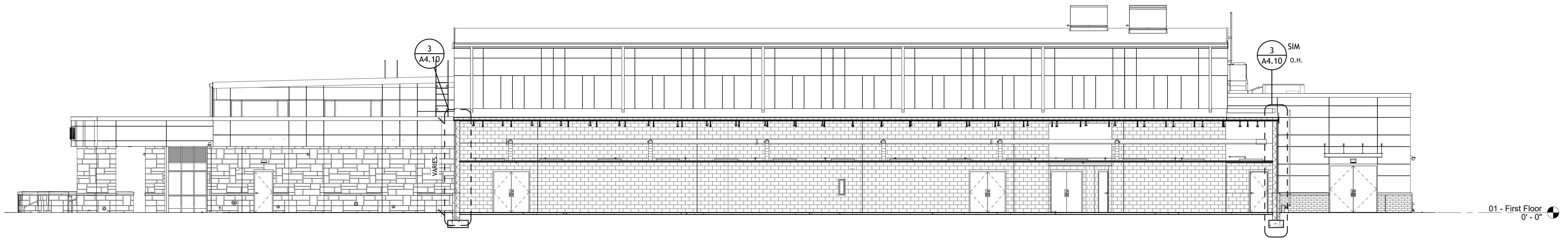
A4.2



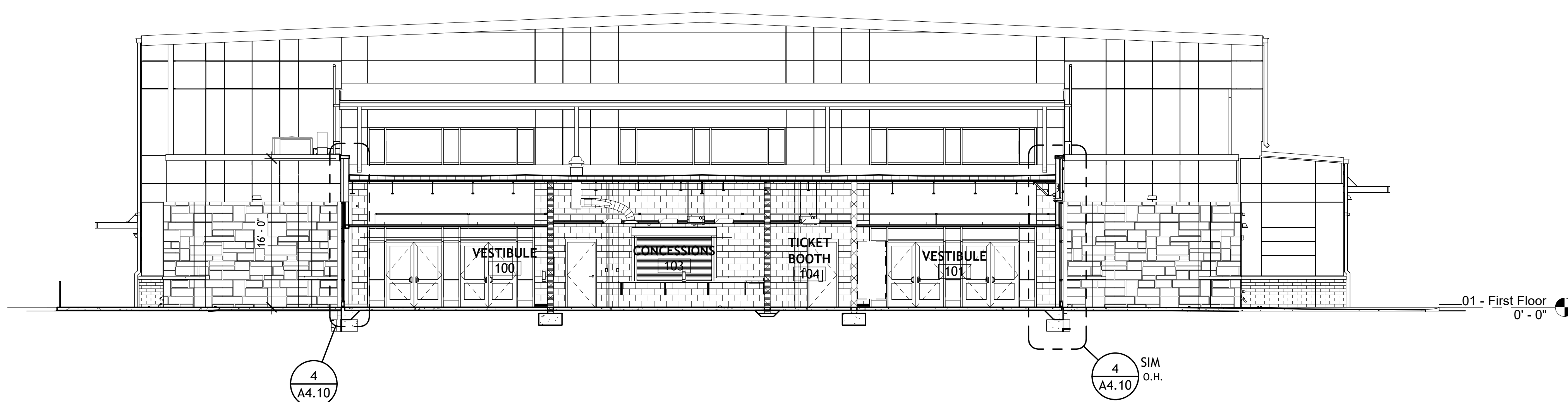
BUILDING SECTION 1
1/8" = 1'-0"



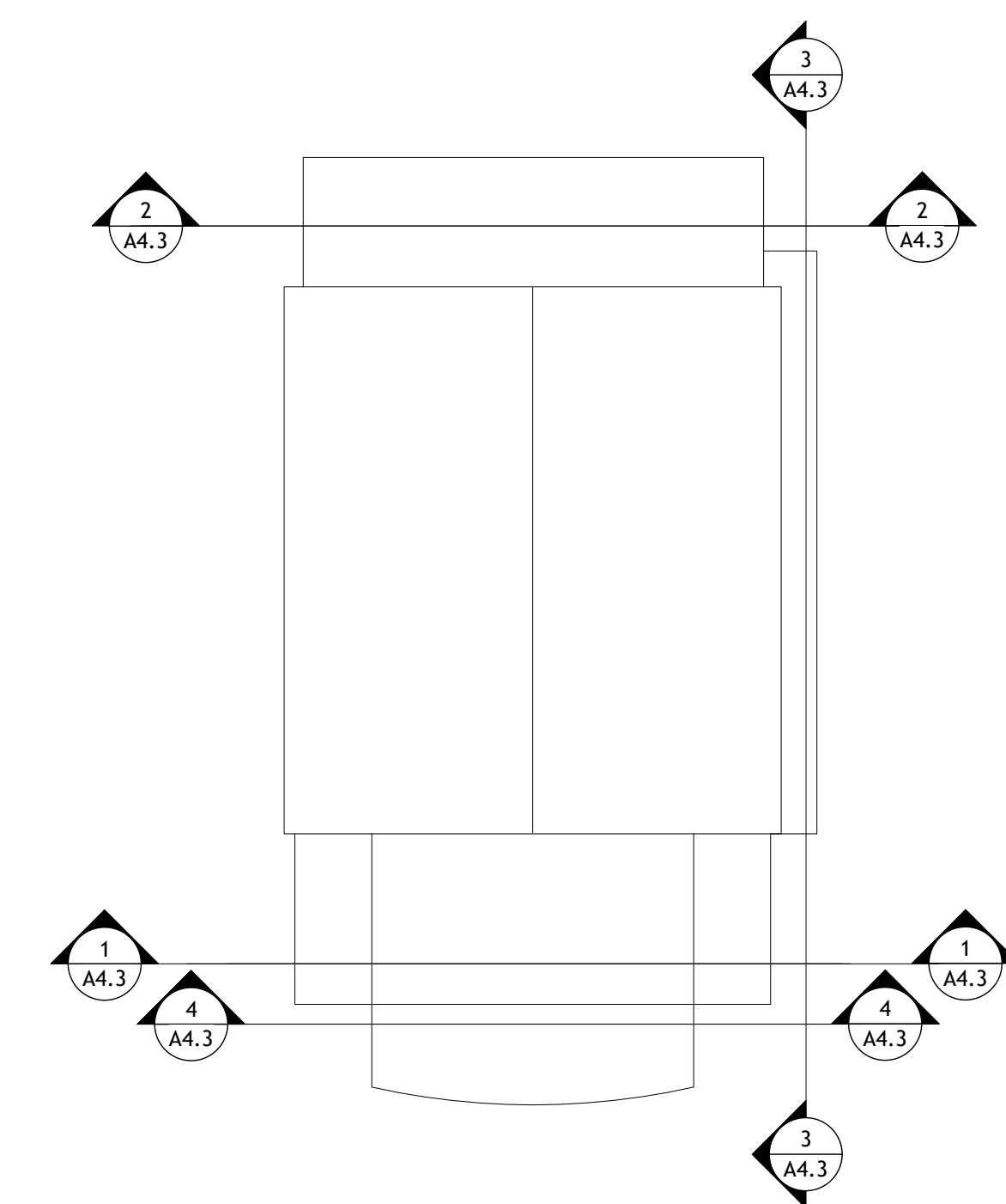
BUILDING SECTION 2
1/8" = 1'-0"



BUILDING SECTION 3
1/8" = 1'-0"



BUILDING SECTION 4
1/8" = 1'-0"

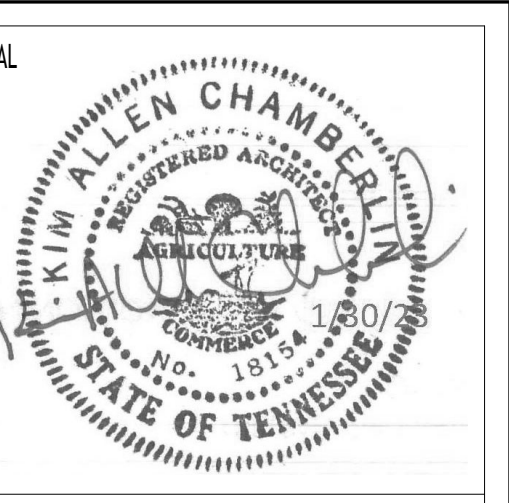


KEY PLAN

**CUMBERLAND COUNTY HIGH SCHOOL:
NEW AUDITORIUM**

LOCATION
CROSSVILLE, TN

OWNER
CUMBERLAND COUNTY SCHOOL BOARD



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JOB NO.	2229
ISSUE DATE	1-30-23
SHEET TITLE	BUILDING SECTIONS
DRAWN	CWD
REVIEW	KAC
A4.3	