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Addendum No. 1, May 18, 2025

Re: Johnson Hall Renovation – PKG 3
Johnson Hall Renovation & Foster Demolition
Tennessee Technological University
SBC Project No. 364/011-04-2022CM



From: Upland Design Group, Inc.
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To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 28, 2025, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of 5 pages and 96 pages of attachments (101 pages total).

Clarifications

1) Doors 134 and 135 are hollow metal frames in stud walls and not in an existing block wall. The existing block wall had to be demolished in the previous package.
2) The existing subfloor of the risers in Tiered Classroom 223 have been removed in the previous package. Field verify condition of the existing subfloor structure prior to installation of new tier subfloor. Provide new substructure where damaged or missing prior to installation of new subfloor.
3) The windows in the existing portion of the building are to be replaced. See the floor plans for window types and sheet A2.5 Window types for sizes. Field verify size of all openings prior to ordering.
4) The new windows in the existing punched openings are to have simulated divided lites with #8785 profile as shown on the A2.5 Window Detail sheet. Coordinate with specifications.
5) The new windows in the existing punched openings are to have insect screens at operable portions of the windows. Coordinate with the manufacturer for screen mounting requirements.
6) The ticker tape displays are to be the 64 pixel versions of the Straight / Rigid Cabinet (10.9” tall) and the Curved / Flexible Cabinet (10.1” tall). Coordinate with drawings for locations of each type.

Changes to Specifications:

7) Add attached Section 08 51 23 Steel Windows.
8) Refer to Section 08 52 00 Aluminum Windows subsection J. Operable windows are to have insect screens.

9) Refer to Section 08 52 00 Aluminum Windows subsection 2.4K. Add a note 5 that reads "5. Applied muntins: Muntins (#8785) shall be applied to the exterior grazing in patterns as shown on the Drawings.

10) Refer to Section 08 71 00 Door Hardware. Replace hardware set 2 to read:

Set No. 2

Each to have:

3	Ea. Butts	BB1199 – 5" x 4.5" - NRP
1	Power Transfer	EPT-10
1	Exit Device	QEL99EO x V914NL
1	Cylinder	Best as required
1	Auto Operator	Horton-S4100LE-Low E-Single-Push Side Mounted-Wireless
2	Push Buttons	BEA MS51W-4 ½"-W/BR2-900 Logic Module Transmitter
1	Relay	Lock Monitor Relay
1	Relay	Lock Interface Relay MC25
1	Threshold	425 x SIA
1	Door Sweep	200NA
1	Set Weatherstrip	127NA – Head & Jamb
1	Drip Cap	16A x M. O. Width
1	Power Supply	PS902 – 900-2RS
1	Card Reader	By Owner

Building power for auto operator and electric exit device power supply, wire and wiring by others. Card reader, card reader power supply, controller, logic, wire and wiring By Owner.

11) Refer to Section 08 71 00 Door Hardware. Replace hardware set 4 to read:

Set No. 4

Each to have:

6	Ea. Butts	BB1199 – 4.5" x 4.5" - NRP
1	Mullion	4954
1	Exit Device	CD99EO x V914DT
1	Exit Device	CD99EO x V914NL
3	Cylinders	Best as required
2	Door Closers	4111-S-H-CUSH
2	Kick Plates	190S
1	Threshold	425 x SIA
2	Door Sweeps	200NA
1	Set Weatherstrip	127NA – Head & Jamb
1	Mullion Seal	5100N
1	Drip Cap	16A x M. O. Width

12) Refer to Section 08 71 00 Door Hardware. Add hardware set 26 to read:

Set No. 26

Each to have:

6	Ea. Butts	BB1279-4.5" x 4.5"
2	Flush Bolts	282D
1	Dust Proof Strike	280X
1	Lever Storeroom	9K3-7-D-14D
2	Overhead Stops	GJ450S Series
2	Silencers	SR64

13) Add attached Section 10 14 63 Electronic Message Signage.

Changes to Drawings:

14) Refer to Cover Sheet 1 and Cover Sheet 2. Revise current revision and current revision dates for sheets modified by this addendum on the Index to Drawings.

15) Refer to sheet C2.1 Grading Plan. Replace with attached revised C2.1 sheet.

16) Refer to sheets D1.1 through D1.5 – Demolition Key Notes – Plans – Package 3. Key note P is not used.
17) Refer to sheet D1.4 Demolition Plan – Fourth Floor – PKG 3. Some walls were demolished in a previous package per attached revised D1.4.
18) Refer to sheet D1.5 Demolition Plan – Attic. Portions of existing attic mezzanine were demolished in the existing package. Extent of remaining attic mezzanine was revised.
19) Refer to sheet LS1.1 Life Safety Notes and Schedules, Room Occupancy Load Calculation Summary. Space 145 IT Classroom is Educational – Classroom Area – E1 with and OLF of 20 and an occupant load of 65,
20) Refer to sheet LS2.1 Life Safety Plan – 1st Floor. Space 145's room tag to read "IT CLASSROOM 145" with "1288 SF, E1, 65"
21) Refer to sheet LS2.1 Life Safety Plan – 1st Floor. Change the width of door 103B to 4'-0" and change its door load tag to D3 with a total door exit capacity of 230.
22) Refer to sheet LS2.4 Life Safety Plan – 4th Floor. Replace with attached revised sheet showing modified Mezzanine Access location.
23) Refer to sheet A1.1N First Floor – Notations. Change the width of door 103B to 4'-0".
24) Refer to sheet A1.1N First Floor – Notations. The plan east wall of Dressing 134 and Elect. 135 was changed to wall type 8 gypsum board. Frame widths for doors 134 and 135 to change for a 3 5/8" metal stud wall.
25) Refer to sheet A1.1N First Floor – Notations. Door 144 is a new door instead of an existing door to remain.
26) Refer to sheet A1.2N Second Floor – Notations. Doors 219 and 256 are new doors instead of existing doors to remain.
27) Refer to sheet A1.2N Second Floor – Notations. Corrected the wall type in the corner of Stair A Level 2 – 203.
28) Refer to sheet A1.4D Fourth Floor – Dimensions. Changed dimensions of areas regarding the change to the Mezz Access 462.
29) Refer to sheet A1.4N Fourth Floor – Notations. Add wall furring to the interior of space Office 433 with wall type 10.
30) Refer to sheet A 1.4N Fourth Floor – Notations. Added note HH at existing walls under mezzanine to read: "Existing walls to remain. Coordinate with the portion of existing concrete mezzanine floor above to remain."
31) Refer to sheet A1.24 Finish Plan – 4th Floor. Modified area regarding the change to Mezz Access 462.
32) Refer to sheet A1.31 Enlarged Plans, Detail 1. Change the width of door 103B to 4'-0".
33) Refer to sheet A1.61 Stair Plans and Sections – Stair A detail 7. Change width of door 103B to 4'-0" Modify the stair railing to return to curtainwall opening.
34) Refer to sheet A1.62 Stair Plans and Sections. Change details 1, 4, 5 and 8 to reflect new location / layout of ships' stair to mezzanine.
35) Refer to sheet A2.2 Finish Schedule – 3rd and 4th Floors. Added rooms 462 and 463.
36) Refer to sheet A2.3 Door Schedule – 1st and 2nd Floor. Change door 253A to hardware set 12.
37) Refer to sheet A2.3 Door Schedule – 1st and 2nd Floor. See the revised sheet A2.3 for door information for door 144, 219, 253C and 256.
38) Refer to sheet A2.3 Door Schedule – 1st and 2nd Floor. Add Frame type "XX" and Door type "P". Change Frame Type "IX"'s door width to 4'-0" per attached revised A2.3 Sheet.
39) Refer to sheet A2.4 Door Schedule – 3rd and 4th Floor. Add doors 462 and 463 to the revised sheet A2.4.
40) Refer to sheet A2.5 Window Types. Add Window type W1R for the fire rated exterior windows.
41) Refer to sheet A2.6 Exterior Details – Typ. Ext. Window Dtl. 1. Add a continuous thru-wall flashing with turn ups at each end to sill detail at existing windows.
42) Add sheet 2.10 Fire Rated Window Details.
43) Refer to sheet 3.01 Exterior Elevations. Added window types to the elevations.

44) Refer to sheet 3.01 Exterior Elevations. Change the windows of Office 157, EF&M Chair 267 and Office 377 to W1R as shown on revised A3.01.
45) Refer to sheet 3.02 Exterior Elevations. Added window types to the elevations.
46) Refer to sheet 3.02 Exterior Elevations. Doors on Plan East and Plan West on 02 – Second Floor are new doors in existing openings.
47) Refer to sheet A4.01 Building Sections – Building Section 1. Change the coordination of Mezz Access 462 as shown on revised sheet A4.01.
48) Refer to sheet A4.14 Wall Sections. Added note "Two-hour Fire Barrier – UL Design U905" to wall section 1. Added note "Two-hour fire barrier – UL Design U419 – ICC-ES Evaluation Report – ESR-2397." to wall section 2.
49) Refer to sheet A4.15 Wall Sections. Added note "Two-hour fire barrier – UL Design U905" to wall section 3.
50) Refer to sheet A4.16 Wall Sections. Added note "Two-hour fire barrier – UL Design U905" to wall section 2. Added note "Two-hour Fire Barrier – UL Design U419 – ICC-ES Evaluation Report ESR-2397" to wall section 3
51) Refer to sheet A4.22 Wall Sections. Added note "One-Hour Fire Barrier – UL Design U905" to wall section 1.
52) Refer to sheet A4.23 Wall Sections. Added note "One-Hour Fire Barrier – UL Design U419" to Pump Room Section 1 and Pump Room Section 2.
53) Refer to sheet A6.02 Interior Elevations details 5, 7, 8, 9, 10, 11, 13, 14, and 15. Sloped ceilings in those spaces were removed in a previous phase. New sloped ceilings added as part of this package.
54) Refer to sheet A6.03 Interior Elevations details 7, 8, and 9. Sloped ceilings in those spaces were removed in a previous phase. New sloped ceilings added as part of this package.
55) Refer to sheet A6.09 Interior Elevations detail 6. Sloped ceilings in that space were removed in the previous phase. New sloped ceilings added as part of this package.
56) Refer to sheets A7.10 through A7.40 – reflected ceiling plans – Key Notes. Modify note H to read "New sloped 1/2" gypsum board on 1 1/2" metal hat channels @ 16" o.c. coord. w/ M,P&E work and field verify existing conditions."
57) Refer to sheet A7.40 Reflected Ceiling Plan – Fourth Floor. Modify ceilings of storage 431, office 432 and Forensic Classroom 443 in regards to the new Mezz Access 462 room and work in mezzanine.
58) Refer to sheet A8.04 Enlarged Plan Details – Detail1. Corrected detail showing where the 6" metal stud wall transitions to a 3 5/8" metal stud wall.
59) Refer to sheet M1.1 First Floor Mechanical Plan. Add additional fire dampers per revised attached M1.1 sheet.
60) Refer to sheet M1.2 Second Floor Mechanical Plan. Add additional fire dampers per revised attached M1.2 sheet.
61) Refer to sheet M1.4 Fourth Floor Mechanical Plan. Add additional fire dampers per revised attached M1.4 sheet.
62) Refer to sheet M1.4 Fourth Floor Mechanical Plan. Modify ductwork in area of Mezz Access 462.
63) Refer to sheet M1.5 Mezzanine Mechanical Plan. Replace sheet with revised attached sheet.
64) Refer to sheet P0.1 Plumbing Notes and Schedules. Add sump pump schedule per revised attached sheet.
65) Refer to sheet P1.0 Basement Plumbing Plan, Plumbing notes. Add note 6 to read: "Existing sump to remain. Replace pumps with new per schedule. Maintain existing discharge piping to storm system. Install audible and visual pump alarm on exterior of building. Coordinate."
66) Refer to sheet FP1.4 Fourth Floor Fire Protection Plan. Replace sheet with revised attached sheet.
67) Refer to sheet FA0.1 Legends & Schedules, Fire Alarm Load Matrix. Add Flow Switch per attached revised sheet.

68) Refer to sheet FA0.1 Legends & Schedules, Fire Alarm Load Matrix.
69) Refer to sheet FA1.1 First Floor Fire Alarm Plan. Replace sheet with revised attached sheet.
70) Refer to sheet FA1.2 Second Floor Fire Alarm Plan. Replace sheet with revised attached sheet.
71) Refer to sheet FA1.3 Third Floor Fire Alarm Plan. Replace sheet with revised attached sheet.
72) Refer to sheet FA1.4 Fourth Floor Fire Alarm Plan. Replace sheet with revised attached sheet.
73) Refer to sheet E0.3 Electrical Details & Schedules. Remove detail 7 Ctrl Recpt Dtl.
74) Refer to sheet E0.4 Lighting Control Details. Remove detail 2 Typical Office Lighting Cntrl Dtl.
75) Refer to sheet E1.0 Electrical Site Plan. Modify lampposts per attached revised sheet.
76) Refer to sheet E1.1 First Floor Power Plan. Replace sheet with revised attached sheet.
77) Refer to sheet E1.2 Second Floor Power Plan. Replace sheet with revised attached sheet.
78) Refer to sheet E1.3 Third Floor Power Plan. Replace sheet with revised attached sheet.
79) Refer to sheet E1.4 Fourth Floor Power Plan. Replace sheet with revised attached sheet.
80) Refer to sheet E1.5 Mezzanine Power Plan. Replace sheet with revised attached sheet.
81) Refer to sheet E2.1 First Floor Lighting Plan. Replace sheet with revised attached sheet.
82) Refer to sheet E2.2 Second Floor Lighting Plan. Replace sheet with revised attached sheet.
83) Refer to sheet E2.3 Third Floor Lighting Plan. Replace sheet with revised attached sheet.
84) Refer to sheet E2.4 Fourth Floor Lighting Plan. Replace sheet with revised attached sheet.
85) Refer to sheet E2.5 Mezzanine Lighting Plan. Replace sheet with revised attached sheet.
86) Refer to sheet E2.7 Exterior Lighting Plan. Replace sheet with revised attached sheet.
87) Refer to sheet E4.3 Electrical Panel Schedules, Branch Panel PMB. Change trip amps of grinder pump to 30A . Add SP with feed of 850, 2 poles and 40A trip amps.

END OF ADDENDUM

Section 08 51 23 Steel Windows

Part 1 Execution

1.1 General

Applicable provisions found in the Bid/Contract Requirements and Division 1, General Requirements apply to the Work under this Section.

A. Fire-rated custom steel windows
B. Accessories including window hardware, mullion covers, installation straps, fasteners, and sealants.

1.2 Scope

The work required under this Specification consists of fire rated exterior windows.

1.3 Related Work

A. Sustainable Design Requirements in Division 01
B. Sheet metal flashing and trim as specified in Section 07 62 00.
C. Glass Glazing as specified in Section 08 81 00

1.4 References

A. American Architectural Manufacturers Association (AAMA)
    1. AAMA 502: Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
B. ASTM International
    1. ASTM A36: Standard Specification for Carbon Structural Steel.
    2. ASTM A240: Standard Specifications for Chromium and Chromium Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
    3. ASTM A653: Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
    4. ASTM A666: Standard Specification for Annealed or Cold Worked Austenitic Stainless Steel Sheet, Strip, Plate and Flat Bar.
    5. ASTM C864: Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
    6. ASTM C920: Standard Specification for Elastomeric Joint Sealants.
    7. ASTM C1281: Standard Specification for Preformed Tape Sealants for Glazing Applications.
    8. ASTM E283: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
    9. ASTM E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, Curtain Walls by Uniform Static Air Pressure Difference
    10. ASTM E331: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

C. American Welding Society (AWS)
   1. ANSI/AWS C2.23: Specification for the Application of Thermal Spray Coatings (Metalizing of Aluminum, Zinc, and their Alloys and Composites for the Corrosion Protection of Steel.
D. Consumer Product Safety Commission (CPSC): CPSC 16 CFR 1201 – Safety Standard for Architectural Glazing Materials
E. Glass Association of North America (GANA) – GANA – Glazing Manual.
F. International Building Code (IBC).
G. National Fire Protection Association (NFPA)
   1. NFPA 80: Fire Doors and Windows.
   2. NFPA 257: Fire Test for Window and Glass Block Assemblies.
H. The Society for Protective Coatings (SSPC)/NACE International
   A. SSPC-SP 10/NACA No. 2: Joint Surface Preparation Standard for Near White Blast Cleaning.
I. Steel Window Institute (SWI)
J. Underwriters Laboratories (UL)
K. Leadership in Energy and Environmental Design (LEED)

1.5 Administrative Requirements

A. Pre-installation meeting: Conduct a pre-installation meeting at the job site attended by Owner, Architect, manufacturer's technical representative, window installer, and contractors of related trades. Coordinate structural support requirements in relation to window installation, installation of air/water barriers, treatment of fenestration, and other requirements specific to the project.

1.6 Submittals

A. Refer to Section 01 33 00 Submittal Procedures.
B. Product Data: Submit manufacturer's current technical literature for each type of product.
C. Shop Drawings; Submit detailed drawings showing:
   1. Window profiles.
   2. Location, layout and dimensions of windows.
   3. Location and type of fasteners.
   4. Shape and method of attachment of all trim
   5. Locations and type of sealants
   6. Other details as may be required for a weather tight installation
D. Samples:
   1. Provide nominal 3 by 5 inch color sample
   2. Provide 6 inch long window section including glazing beads.
   3. Provide sample of each hardware component.
E. Quality Assurance Submittals
   1. Design Data, Test Reports: Provide manufacturer's test report(s) indicating product compliance with requirements.
   2. Manufacturer Erection Instructions: Provide manufacturer's written installation

instructions including proper material storage, and maintenance instructions.

3. Submit copy of paint system warranty showing compliance with performance criteria.

1.7 Quality Assurance

A. Manufacturer Qualifications
   1. Manufacturer shall have a minimum of five (5) years experience in the production of custom fire rated steel window and must be a member of the Steel Window Institute (SWI)

B. Installer Qualifications:
   1. Installer shall have a minimum of five (5) years experience in the installation and glazing of similar type of custom cold rolled steel window.

C. Conform to International Building Code 2012 for design and installation of fire rated windows.

D. Comply with CPSC 16 CFR 1201 and other applicable safety requirements. Each piece of safety glazing shall be permanently labeled with appropriate marking.

1.8 Delivery, Storage And Handling

A. Refer to Section 01 60 00 – Product Requirements.

B. Deliver materials and components in manufacturer's original, unopened, undamaged packaging with identification labels intact.

C. Store materials on dry, level, firm, and clean surface. Elevate windows and cover to allow air to circulate and moisture to escape.

1.9 Warranty

A. Refer to Section 01 78 02 Closeout Submittals.

B. Window Warranty: Standard form in which manufacturer agrees to repair or replace components that fail in materials or workmanship within specified warranty period.
   1. Warranty Period: Two (2) years from date of delivery from factory.

C. Finish Warranty: Standard form in which manufacturer agrees to repair or replace factory finish that fails due to fading, gloss retention or chalking within specified warranty period.
   1. Warranty Period: Ten (10) Years from date of delivery from factory.

Part 2 Products

2.1 Manufacturer

A. Optimum Window; 28 Canal Street, Ellenville, New York 12428; 1-845-647-1900 (www.optimumwindow.com). Equal products by FyreTec of Wayne, NE; Technical Glass Products (TGP) of Snoqualmie, WA, or approved equal.

B. Basis of Design:
   1. Windows: FR8600 PO – 3/4" insulated glazing.

2.2 Performance Criteria

A. Structural Performance:

1. Wind Loads: As indicated on the drawings. Coordinate positive and negative loads acting normal to plane of wall in accordance with ASTM E330.
2. Deflection Criteria shall be L/175.

B. Design Criteria:
1. Grade: Heavy Monumental in accordance with SWI.
2. Fire Rating: Testing shall be done in accordance with NFPA 80 and 257.
   a. Windows: 45 minutes. Refer to elevations for locations and sizes of windows.
3. Air Infiltration: Maximum air infiltration allowed is 0.37 cubic feet per minute per linear foot of crack length with a pressure differential across the window of 6.24 pounds per square foot, in accordance with ASTM 283.
4. Water Penetration: No water penetration for 15 minutes allowed with windows are subjected to a rate of flow of 5 gallons per hour per square feet with a pressure differential of 2.86 pounds per square foot, in accordance with ASTM E331.

2.3 Materials

A. Steel sections shall meet the requirements of ASTM A36.
1. Galvanize steel sheets: Cold rolled low carbon steel sheets in accordance with ASTM A653

B. Anchors, clips, and accessories: Stainless steel complying with ASTM A666 or hot-dip zinc-coated steel complying with ASTM A653.

C. Weather-stripping: Manufacturer's standard EPDM gaskets.

D. Trim and Flashing: Refer to Section 07 62 00 – Sheet Metal Flashing and Trim

E. Glazing Stops: Manufacturer's standard steel section.

2.4 Windows

A. Projecting Window (FR8600).
1. Window fabrication:
   a. Window Type: Project-out (awning)
   b. Window Sizes: As shown on drawings.
   c. Manufacturer's standard cold rolled hollow steel sections.
   d. Frame and ventilator:
      i. Frame and ventilator depth: Nominal 2-1/16 inch deep, minimum
      ii. Frame corners shall be mitered and mechanically assembled.
   e. Muntins: T Sections mechanically fastened to perimeter with cross-notched intersections.
   f. Fabrication Tolerances: ± 1/16 inch.
   g. Glazing beads: Snap-in, and mechanically fastened, applied to window interior.
   h. Weather-stripping: Manufacturer's standard removable.
   i. Projecting Window Hardware:
      i. Hinges: Steel, self-closing type, 2 hinges.
      ii. Locking Device: Cam locks with keepers, provide 2 locks for projecting windows over 34 inches wide.

2.5 Glazing

A. Type: Fire rated glass listed by UL for designated fire rated assembly.
   1. Refer to Section 08 80 00 – Glazing for glazing requirements, glazing, and accessories.
   2. Thickness: 3/4" inch overall thickness.
   3. Glazing Unit: Insulated glass unit:
   4. Low-E Coated Glass:
      a. Type: Sputter coated
      b. Surface: Second surface
      c. Visible Light Transmittance: 51% Minimum
      d. Winter Nighttime U-Factor: .55 maximum
      e. Summer Daytime U-Factor: .49 maximum
      f. Solar Heat Gain Coefficient: .23 maximum
   5. Color: Tinted.

B. Gaskets: Molded or extruded elastomeric type of profile and hardness required to maintain weather tight seal and complying with ASTM C864

C. Setting Blocks: Neoprene or EPDM complying with ASTM C864.

D. Glazing Tape: Preformed, non-staining, coiled on release paper, and complying with ASTM C1281.

E. Glazing Sealants: As recommended by window manufacturer and is compatible with materials and conditions.

2.6 Accessories

A. Insect screens.
   1. Magnetically applied window screen.

B. Trim: Provide mullion covers, attachment clips, and other trim required for complete, finished installation as detailed on Drawings and approved shop drawings.

C. Anchorage Devices: Manufacturer's recommended clips, anchors, fasteners, and shims required for secure installation of window units.

2.7 Finishes

A. Galvanize steel components prior to application of primer and finish coats.

B. Primer: Apply one coat zinc rich epoxy primer, 3 mils dry film thickness.

C. Finish Coat
   1. Electrostatically applied, colored, polyester powder coating. Baked at 350 to 396 degrees F. until chemically bonded to metal substrate.
   2. Finish coat thickness: Minimum 3 to 6 mils dry film thickness.
   3. Overall finish thickness: 6 to 9 mils dry film thickness.

D. Color: As selected by Designer from manufacturer's standard color line.

E. Trim – Finish:
   1. Galvanized metal sheet or coil stock, finish to match windows.
   2. Color: Match window.

Part 3 Execution

3.1 Examination

A. Provide field measurements as required to achieve proper fit of cold rolled windows.
B. Verify that openings are ready to receive cold rolled steel windows.
C. Where contact with dissimilar metals, protect against galvanic action by painting contact surfaces with primer, applying sealant or tape, or by installing nonconductive spacers as recommended by manufacturer for this purpose.

3.2 Installation

A. General:
   1. Install windows in accordance with NFPA 80 and approved shop drawings.
   2. Comply with manufacturer's written instructions
   3. Do not install damaged window components. Refinish or replace damaged components as directed by the Designer.
   4. Seal joints watertight unless otherwise indicated.
   5. Units shall be installed plumb, level and free or warp or twist.
B. Adjust windows, screens, hardware, and accessories for a tight fit, smooth operation and weather tight closure.
C. Clean factory-finished steel surfaces immediately after installing windows. Comply with manufacture's written recommendations for final cleaning and maintenance. Avoid damaging finishes.
D. Attach insect screens on windows. Install screens level and plumb.

3.3 Field Quality Control

A. Testing Agency: Engage an independent testing and inspection agency acceptable to the Designer to perform field tests and inspections and to prepare reports of findings.
B. Field Testing: After completing partial installation of window assembly, including accessories and trim for air and water penetration in accordance with AAMA 502, Test Method A.

End Of Section

Section 08 71 00 Door Hardware

1.0 General

Applicable provisions found in the Bid/Contract Requirements and Division 1, General Requirements, apply to the Work under this Section.

1.1 Scope

A. The work required under this specification consists of all finish hardware required to complete the work. It shall also be a requirement of this supplier to coordinate and supply the Metal Doors & Frames (Section 08 11 00) and the Wood Doors (Section 08 14 00) specified in this Division of the Specification. Existing doors and door frames shall be coordinated with new hardware specified herein to provide the proper function and operation intended. Verify existing opening size and hardware preparation. Existing doors to remain shall be adjusted as required for door to function properly. Existing hardware preparations in doors and frames, if not being reused with new hardware, shall be filled and painted. (Filling of hardware preparations in metal doors and metal frames shall be done by welding and then ground smooth prior to finish paint application.) Existing hardware being reused is to be removed from the existing doors, marked for the opening, reinstalled after door is refinished, adjusted and secured with new fasteners where required to provide proper attachment to the door and frame. Existing reinforcements and tap plates shall be verified for structural integrity. Loose or bent reinforcements and tap plates shall be repaired by replacement and/or welding.

B. This specification section also consists of providing doors, frames and hardware prepared for the University's access control system. Final electrical connections to the Owner's access control system shall be by the Owner.

1.2 Related Work

A. Toilet stall hardware is specified under "Toilet and Bath Accessories" of DIVISION 10.
B. Metal doors and frames as specified in this DIVISION.
C. Wood doors as specified in this DIVISION.
D. Aluminum Storefront doors as specified in this DIVISION.
E. Electrical supply, wiring and conduit required for various items listed in this section are specified under "ELECTRICAL" DIVISION.

1.3 Manufacturer

A. The selections listed are intended to indicate the standard of quality and the type of hardware required. The catalog numbers listed in these specifications are from the catalog of the first named manufacturer; equivalent items of other named manufacturers will be acceptable. No substitutions will be permitted where only one manufacturer is named.
   1. Standard Butts: Hager, Stanley, Ives or McKinney.
   2. Lock and Latch sets: Best Access Systems, Schlage, Sargent.
   3. Cylinders and Interchangeable Cores: Best Access Systems.
   4. Exit Devices: Von Duprin, Stanley or Sargent.
   5. Overhead Closers: LCN Closers, Stanley or Sargent.
   6. Automatic Operators: Horton, Besam or Dorma Automatics.
   7. Kick Plates, Stops and Miscellaneous Items: Hager, Ives, Rockwood or Trimco.

8. Thresholds, Weatherstrip and Drip Caps: National Guard, Pemko or Hager.
9. Key Control Cabinet: MMF Industries, TelKee, Grainger.
10. Electric Strikes and Power Supplies: Von Duprin, Securitron, HES.

B. Should the Contractor propose to furnish hardware other than that of the specified manufacturer, he shall submit for the Designer's approval a condensed list of hardware -- listing each item, the specified item, and the proposed substitute by the manufacturer's name and catalog number. This submittal shall be made prior to the submittal of a complete schedule.

1.4 Quality Assurance

Supplier shall be a recognized architectural door hardware supplier, that has been in business for a minimum of five years, has warehousing facilities in the Project's vicinity, and has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that specified for this project. Supplier shall have a full time employee on staff that is a Certified Architectural Hardware Consultant (AHC), a Member of the Door and Hardware Institute and participates in their continuing education program (CEP). This person shall be available to work with the Owner, Designer and Contractor during the project. This AHC shall certify the accuracy of the hardware schedule and the material to comply with this Section by applying the Consultant's current "seal" stamp to all submittals. Supplier shall have full time employees that are trained, experienced, and available for servicing any supplied project products.

1.5 Schedule, Samples And Certification

A. Submit for the Designer's approval complete schedule of the finish hardware -- listing all openings by architectural numbers; each item of hardware to be furnished for each opening by the manufacturer's name and catalog number; and the finish for all items of hardware. Complete riser and wiring diagrams are to be included for any electrified hardware items.

B. Submit cut sheets on all hardware material listed in the submitted schedule of hardware.

C. The Contractor shall forward approved schedules and templates, as required, to the door and frame manufacturers.

D. Upon request by the Designer, the Contractor shall submit for inspection and approval samples of each item of hardware specified herein.

E. Submit for the Designer's approval complete keying schedule following a consultation between Best Access System's representative and the Owner. Consultation shall include a door-by-door review with the Owner prior to submission of the keying schedule. The keying schedule shall include keying nomenclature, door number and location description. Do not order cylinders and locksets prior to approval of the keying schedule.

F. Submit with close out documents certification by hardware manufacturer's representative that all installation and adjustment recommendations have been made.

G. Submit riser diagrams and point to point wiring details for all access controlled openings. Include a verbal narrative of door operation.

1.6 Metal Doors And Frames

The Contractor shall carefully examine the Drawings and other sections of the Specifications for metal frames and metal doors. For all such frames and/or doors, hardware shall be template hardware.

1.7 Labeled Openings

A. Finish hardware for all labeled fire doors must comply in all respects to the National Board of Fire Underwriters; requirements for hardware for the class of fire door called for on the Drawings. All closers, closer arms and latching devices must bear visible evidence of U.L. listing. Hardware shall comply with the requirements of NFPA 80 & NFPA 101.

B. Finish hardware required at fire rated openings shall be fire tested under positive pressure per NFPA 252 or UL10C with the positive pressure plane at 40” above the sill.

Part 2 Products

2.1 Keys And Keying

A. All cylinders shall be Grand Master Keyed into the existing “Premium” seven (7) pin Best Access System interchangeable core Grand Master Key System. Interchangeable cores shall be “Premium” small format (SFIC). Furnish four (4) change keys per lockset or cylinder. Provide six (6) master keys per master key group, three (3) grand master keys and three (3) control keys. Permanent keys shall be properly tagged and identified and delivered to the Designer or Owner as directed.

B. The supplier shall meet with the Owner and develop a keying schedule.

C. Provide a Construction Core Key System for all cylinders for use during building construction. Provide 12 Construction Master Keys and three (3) control keys. Temporary construction cores shall be returned to the door hardware supplier upon completion of the project. Permanent cores shall be installed by the Owner.

D. Provide a key cabinet with a capacity of 150% of the number of keys to be provided as a part of this work. Key cabinet shall be located as directed by Designer. It shall be the responsibility of the hardware supplier to meet with the Owner for orientation as to key system organization, label keys and install keys in cabinet. Provide MMF Industries “Dupli-Key”, two tag cabinet complete with all accessories sized as required.

2.2 Silencers

All metal frames, except exterior doors, shall have silencers. Provide H. B. Ives, SR64 silencers, three for each single door and two for each double door. Provide H. B. Ives, SR65 silencers for wood frames, in quantities noted above for metal frames.

2.3 Butts and Continuous Hinges

A. Butts shall be types as scheduled with sizes as follows: 4-1/2” x 4-1/2” for 1 3/4” thick doors not more than 36" wide; 5” x 4-1/2” for doors over 36" wide. Provide non-removable pins for all out-swinging exterior doors.

B. Where scheduled, provide full mortise or full surface continuous geared hinges. Geared hinges shall be heavy duty types with bearing center line spacing no greater than 2 9/16”. Provide fire rated continuous hinges for fire rated door openings.

2.4 Closers

A. Where closers are scheduled, provide LCN 4111 Series for exterior openings. Provide 4111/4011 Series where scheduled for Interior Openings. Size shall be as recommended by manufacturer.

B. Provide brackets for closers as required to provide proper mounting.

C. Provide stop, hold-open arms where scheduled.
D. Provide parallel arm closers or regular arm closers where required to locate closer body in rooms and not on corridor or public side of door. The schedule does not show this requirement, only the door closer series required.
E. Acceptable products: Stanley D-4551 Series or Sargent 281 Series.

2.5 Automatic Operators

A. Where automatic operators are scheduled, provide Horton S4100LE Low Energy Series for exterior openings. Provide interior push side mounting. Size shall be as recommended by manufacturer.
B. Provide units that comply with the requirements of ANSI/BHMA A156.19, Power Assist and Low Energy Power Operated Doors.
C. Provide interface with electrified exit device and card reader where scheduled.
D. Provide wireless and touchless push button operation where scheduled.

2.6 Stops

Except where overhead door holders are scheduled, provide Hager, Type 236W stop. Substitute Type 241F or 243F stop where wall stop cannot be installed.

2.7 Lockset and Lock Trim

A. Provide key in lever Best Access locksets, Series “9K3” with “14D” trim for 1 3/4" thick doors where scheduled. Lever shall be a solid casting with wrought escutcheons. Latch-bolts shall have 9/16” throw.
B. Provide Best Access mortise locksets, Series “45H” with “14J” trim for 1 3/4” thick doors where scheduled. Lever shall be a solid casting with wrought escutcheons. Latch-bolts shall be 3/4” throw, deadlocking type.
C. Where scheduled, provide electromechanical locksets at door openings requiring access control.
D. All locksets shall be beveled 1/8" in 2".
E. Acceptable products: Schlage “L” Series, “ND” Series, Sargent 8200 Series, “10 Line”.

2.8 Exit Devices, Electric Strikes and Power Supplies

A. Provide exit devices, Von Duprin Series 99 where indicated. Exit devices shall have deadlocking latches.
B. Provide 996L, breakaway lever trim where lever functions are scheduled. Levers shall match the design of lockset levers.
C. Where scheduled provide double cylinder function devices with interior thumb-turn capable of locking the exit device exterior trim without opening the door.
D. Provide power transfers, Von Duprin Series EPT-10 for use with QEL exit devices and electric locksets where scheduled.
E. Provide power supplies for all electric exit device and electric locks which are compatible with the access control system requirements. Power supplies shall be certified to meet UL294 requirements.
F. Acceptable exit device products: Stanley Apex 2000 Series, Sargent 80 Series with deadlocking latch (GL option).
G. Acceptable power transfer and power supplies: Von Duprin EPT-10; PS902.

2.9 Thresholds, Weatherstrip And Drip Caps

A. Provide aluminum thresholds as scheduled on the Drawings and herein.
B. Thresholds shall be full masonry opening width, notched to frame profile. All thresholds are to have an anti-slip finish, SIA.
C. Weatherstripping to be applied with self tapping stainless steel screws.
D. Drip Caps to be supplied for masonry opening width.
E. At fire rated wood doors, provide fire and smoke seals as scheduled.

2.10 Kick Plates

A. Kick plates shall be 8” high unless noted otherwise in the schedule and have a length of 2” less than nominal door width for single doors and a length of 1 less than nominal door width for pairs of doors.
B. Kick plates shall be 0.050” thick and be beveled on three edges.
C. Kick plates shall be fabricated of stainless steel base material.

2.11 Finish

A. Provide satin chrome US26D finish on butts, locksets, door stops and exit devices.
B. Provide satin stainless steel US32D finish on push, pull and kick plates.
C. Provide aluminum lacquer finish on surface closer bodies and arms to match satin chrome US26D finish.
D. Provide mill finish, aluminum on extruded aluminum thresholds,
E. Provide clear anodized finish on weatherstrip, door sweeps, and drip caps.
F. Provide hardware for aluminum storefront doors that match the finish of the doors and frames.

2.12 Fasteners

A. Provide proper fasteners as required by mounting conditions. Proper fasteners shall be supplied for mounting new hardware to doors and frames.
B. Provide fasteners with finish to match the hardware to be mounted.
C. Provide sex nuts and bolts for mounting door closers and exit devices to wood doors.
D. Provide stainless steel self tapping screws for installation of weatherstrip and drip caps.

2.13 Hardware Sets

Set No. AL-1
Each to have:

2	Continuous Hinges	780-112-HD W/EPT Prep
2	Power Transfers	EPT-10
1	Mullion	5654 W/ 154 Stabilizers
1	Exit Device	QEL99EO x V914DT
1	Exit Device	QEL99EO x V914NL
1	Cylinder	Best as required
1	Door Closer	4111-S-CUSH x 4110-18 Drop Plate as required
1	Auto Operator	Horton-S4100LE-Low E-Single-Push Side Mounted-Wireless
2	Push Buttons	BEA MS51W-4 ½”-W/BR2-900 Logic Module Transmitter

1	Relay	Lock Monitor Relay
1	Relay	Lock Interface Relay MC25
1	Threshold	425 x SIA
2	Door Sweeps	200NA
1	Drip Cap	16A x M. O. Width
1	Power Supply	PS902 – 900-2RS
1	Card Reader	By Owner

Weatherstrip complete with aluminum doors and frame.
Building power for auto operator and electric exit device power supply, wire and wiring by others.
Card reader, card reader power supply, controller, logic, wire and wiring By Owner.

Set No. AL-2
Each to have:

2	Continuous Hinges	780-112-HD W/EPT Prep
2	Power Transfers	EPT-10
1	Mullion	5654 W/ 154 Stabilizers
1	Exit Device	QEL99EO x V914DT
1	Exit Device	QEL99EO x V914NL
1	Cylinder	Best as required
2	Door Closers	4111-S-CUSH x 4110-18 Drop Plate as required
1	Threshold	425 x SIA
2	Door Sweeps	200NA
1	Drip Cap	16A x M. O. Width
1	Power Supply	PS902 – 900-2RS
1	Card Reader	By Owner

Weatherstrip complete with aluminum doors and frame.
Building power for auto operator and electric exit device power supply, wire and wiring by others.
Card reader, card reader power supply, controller, logic, wire and wiring By Owner.

Set No. AL-3
Each to have:

2	Continuous Hinges	780-112-HD-UL
2	Exit Devices	9927L-F-LBE-17 Lever-LBR
2	Door Closers	4040XP-EDA x 4040XP-18 Drop Plate as required
1	Magnetic Holder	FM998 x Armature Extension as required
1	Door Stop	As required

Fire alarm power for magnetic holder, wire and wiring by others.

Set No. AL-4
Each to have:

1	Continuous Hinge	780-112-HD
1	Exit Device	99EO x V914NL
1	Cylinder	Best as required

1	Door Closers	4111-S-CUSH x 4110-18 Drop Plate as required
1	Threshold	425 x SIA
1	Door Sweep	200NA
1	Drip Cap	16A x M. O. Width

Weatherstrip complete with aluminum doors and frame.

Set No. AL-5
Each to have:

1	Continuous Hinge	780-112-HD-UL
1	Exit Device	99L-F-LBE-17 Lever
1	Door Closer	4111-S-CUSH x 4110-18 Drop Plate as required

Set No. AL-6
Each to have:

1	Continuous Hinge	780-112-HD
1	Deadlock	MS1850S
2	Cylinders	Best as required
1	Set Push/Pull Bars	159D – BTB Mounted
1	Door Closer	4111-S-CUSH x 4110-18 Drop Plate as required
1	Threshold	425 x SIA
1	Door Sweep	200NA
1	Drip Cap	16A x M. O. Width

Weatherstrip complete with aluminum doors and frame.

Set No. AL-7
Each to have:
Access doors complete with all required hardware except:

1	Cylinder	Best as required

Set No. AL-8
Each to have:

1	Continuous Hinge	780-112-HD
1	Set Push Pull Bars	159D – BTB Mounting
1	Door Closers	4111-EDA
1	Kick Plate	190S
1	Door Stop	As required

Set No. AL-9
Each to have:

1	Continuous Hinge	780-112-HD
1	Lever Office	9K3-7-AB-14D
1	Door Stop	As required

Set No. AL-10
Each to have:

1	Continuous Hinge	780-112-HD
1	Power Transfer	EPT-10
1	Lever Electric	9K3-7-DEU-14D
1	Door Closer	4111-EDA/4011
1	Kick Plate	190S
1	Door Stop	As required
3	Silencers	SR64
1	Power Supply	PS902
1	Card Reader	By Owner

Building power for lock power supply, wire and wiring by others.
Card reader power supply, controller, logic, wire and wiring by others.

Set No. 1
Each to have:

3	Ea. Butts	BB1199–5” x 4.5”-NRP
1	Exit Device	CD99EO x V914NL
2	Cylinders	Best as required
1	Door Closer	4111-S-CUSH
1	Kick Plate	190S
1	Threshold	425 x SIA
1	Door Sweep	200NA
1	Set Weatherstrip	127NA – Head & Jamb
1	Drip Cap	16A x M. O. Width

Set No. 2
Each to have:

3	Ea. Butts	BB1199 – 5” x 4.5” - NRP
1	Power Transfer	EPT-10
1	Exit Device	QEL99EO x V914NL
1	Cylinder	Best as required
1	Auto Operator	Horton-S4100LE-Low E-Single-Push Side Mounted-Wireless
2	Push Buttons	BEA MS51W-4 ½”-W/BR2-900 Logic Module Transmitter
1	Relay	Lock Monitor Relay
1	Relay	Lock Interface Relay MC25
1	Threshold	425 x SIA
1	Door Sweep	200NA
1	Set Weatherstrip	127NA – Head & Jamb
1	Drip Cap	16A x M. O. Width
1	Power Supply	PS902 – 900-2RS
1	Card Reader	By Owner

Building power for auto operator and electric exit device power supply, wire and wiring by others.
Card reader, card reader power supply, controller, logic, wire and wiring By Owner.

Set No. 3
Each to have:

1	Continuous Hinge	780-157-HD
3	Hinge Fillers	(Field Verify)
1	Lever Entry	45H-7-T-14J
1	Door Closer	4111-S-H-CUSH
1	Threshold	425HD (0.244” Thick) x SIA
1	Door Sweep	200NA
1	Set Weatherstrip	127NA – Head & Jamb
1	Drip Cap	16A x M. O. Width

Set No. 4
Each to have:

6	Ea. Butts	BB1199 – 4.5” x 4.5” - NRP
1	Mullion	4954
1	Exit Device	CD99EO x V914DT
1	Exit Device	CD99EO x V914NL
3	Cylinders	Best as required
2	Door Closers	4111-S-H-CUSH
2	Kick Plates	190S
1	Threshold	425 x SIA
2	Door Sweeps	200NA
1	Set Weatherstrip	127NA – Head & Jamb
1	Mullion Seal	5100N
1	Drip Cap	16A x M. O. Width

Set No. 5
Each to have:

6	Ea. Butts	BB1168-5” x 4.5” (4.5” x 4.5” @ Dr. 406)
2	Exit Devices	9927L-F-17 Lever-LBR
2	Cylinders	Best as required
2	Door Closers	4111-EDA
2	Kick Plates	190S
2	Magnetic Holders	FM998 x Armature Extension as required
2	Sets Fire Seal	9850 – Head & Jambs
1	Set Fire Seal	9550 – Meeting Stiles

Fire alarm power for magnetic holders, wire and wiring by others.

Set No. 6
Each to have:

1	Continuous Hinge	780-157-HD-UL
3	Hinge Fillers	(Field Verify)

1	Exit Device	99L-F-17 Lever
1	Cylinder	Best as required
1	Door Closer	4111-EDA
1	Kick Plate	190S
1	Door Stop	As required
1	Set Fire Seal	9850 - Head and Jambs

Set No. 7
Each to have:

3	Ea. Butts	BB1168 – 4.5” x 4.5”
1	Exit Device	99L-F-2 x 17 Lever x XB11-979 Thumb-turn
1	Cylinder	Best as required
1	Door Closer	4111-EDA
1	Kick Plate	190S
1	Door Stop	As required
1	Set Fire Seal	9850 – Head & Jambs

Set No. 8
Each to have:

3	Ea. Butts	BB1168 – 4.5” x 4.5” (5” x 4.5” @ Doors > 3’0” Width)
1	Exit Device	99L-F x LBE x 17 Lever
1	Door Closer	4011
1	Kick Plate	190S
1	Door Stop	As required
1	Set Fire Seal	9850 – Head & Jambs

Set No. 9
Each to have:

3	Ea. Butts	BB1279 – 5” x 4.5”
1	Lever Storeroom	9K3-7-D-14D
1	Door Closer	4111-EDA/4011
1	Kick Plate	190S
1	Door Stop	As required
1	Set Fire Seal	9850 – Head & Jambs

Set No. 10
Each to have:

3	Ea. Butts	BB1279 – 4.5” x 4.5”
1	Lever Storeroom	9K3-7-D-14D
1	Door Closer	4111-EDA
1	Kick Plate	190S
1	Door Stop	As required

1	Set Fire Seal	9850 – Head & Jambs

Set No. 11
Each to have:

3	Ea. Butts	BB1168 – 4.5” x 4.5”
1	Power Transfer	EPT-10
1	Lever Electric	9K3-7-DEU-14D
1	Door Closer	4111-EDA/4011
1	Kick Plate	190S
1	Door Stop	As required
3	Silencers	SR64
1	Power Supply	PS902
1	Card Reader	By Owner

Building power for lock power supply, wire and wiring by others.
Card reader power supply, controller, logic, wire and wiring by others.

Set No. 12
Each to have:

3	Ea. Butts	BB1168 – 4.5” x 4.5”
1	Power Transfer	EPT-10
1	Exit Device	QEL99L-2 x 17 Lever x XB11-979 Thumb-turn
1	Cylinder	Best as required
1	Door Closer	4111-EDA
1	Kick Plate	190S
1	Door Stop	As required
3	Silencers	SR64
1	Power Supply	PS902 x 900-2RS
1	Card Reader	By Owner

Building power for exit device power supply, wire and wiring by others.
Card reader power supply, controller, logic, wire and wiring by others.

Set No. 13
Each to have:

3	Ea. Butts	BB1168-4.5” x 4.5”
1	Push Plate	30S – 8” x 16”
1	Pull Plate	H33G – 4” x 16” (2.5” Clearance)
1	Door Closer	4111-EDA
1	Kick Plates	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 14

Each to have:

3	Ea. Butts	BB1279-4.5” x 4.5”
1	Lever Privacy	9K3-0-L-14D
1	Door Closer	4011
1	Kick Plates	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 15

Each to have:

3	Ea. Butts	BB1279-4.5” x 4.5”
1	Lever Office	9K3-7-AB-14D
1	Kick Plates	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 16

Each to have:

3	Ea. Butts	BB1279-4.5” x 4.5”
1	Lever Office	9K3-7-AB-14D
1	Door Stop	As required
3	Silencers	SR64

Set No. 17

Each to have:

3	Ea. Butts	BB1168-4.5” x 4.5”
1	Lever Office	9K3-7-AB-14D
1	Door Closer	4011/4111-EDA
1	Kick Plates	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 18

Each to have:

3	Ea. Butts	BB1279-4.5” x 4.5”
1	Lever Storeroom	9K3-7-D-14D
1	Door Stop	As required
3	Silencers	SR64

Set No. 19

Each to have:

3	Ea. Butts	BB1279-4.5” x 4.5”
1	Lever Storeroom	9K3-7-D-14D
1	Door Closer	4111-EDA/4011 (4111-S-CUSH @ Door 244)
1	Kick Plates	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 20
Each to have:

3	Ea. Butts	BB1168-4.5” x 4.5”
1	Exit Device	99L-2-17 Lever x XB11-979
1	Cylinder	Best as required
1	Door Closer	4111-EDA
1	Kick Plates	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 21
Each to have:

3	Ea. Butts	BB1168-4.5” x 4.5”
1	Power Transfer	EPT-10
1	Lever Electric	9K3-7-DEU-14D
1	Door Closer	4011
1	Kick Plate	190S
1	Door Stop	As required
1	Threshold	413
1	Auto Door Bottom	220NA x Closed Ends
1	Set Sound Seal	127NA – Head & Jambs
1	Power Supply	PS902
1	Card Reader	By Owner

Building power for lock power supply, wire and wiring by others.
Card reader power supply, controller, logic, wire and wiring by others.

Set No. 22
Each to have:

3	Ea. Butts	BB1168-4.5” x 4.5”
1	Lever Office	9K3-7-AB-14D
1	Door Stop	As required
3	Silencers	SR64

Set No. 23
Each to have:

6	Ea. Butts	BB1168-4.5” x 4.5”
2	Sets Push/Pull Bars	159D – BTB Mounting
2	Door Closers	4111-EDA
2	Kick Plates	190S
2	Door Stops	As required
2	Silencers	SR64

Set No. 24
Each to have:

3	Ea. Butts	BB1168-4.5” x 4.5”
1	Set Push/Pull Bars	159D – BTB Mounting
1	Door Closer	4111-EDA
1	Kick Plate	190S
1	Door Stop	As required
3	Silencers	SR64

Set No. 25
Each to have:

3	Ea. Butts	BB1279-4.5” x 4.5”
1	Lever Office	9K3-7-AB-14D
1	Overhead Stop	GJ450S Series
3	Silencers	SR64

Set No. 26
Each to have:

6	Ea. Butts	BB1279-4.5” x 4.5”
2	Flush Bolts	282D
1	Dust Proof Strike	280X
1	Lever Storeroom	9K3-7-D-14D
2	Overhead Stops	GJ450S Series
2	Silencers	SR64

Part 3 Execution

3.1 Installation

A. Locations of hardware shall be in accordance with recommendations of National Builders Hardware Association for detailed locations.

B. Install hardware in accurate conformity with manufacturer's templates, particularly with respect to measurement of door control devices from jambs. Hardware installers shall be pre-approved by the Designer in the submittal process.

C. Install exit devices at 37” centerline above finished floor.

3.2 Push And Pulls

Pull Plates shall be through-bolted with bolt heads concealed behind push plates.

3.3 Adjustment

Check locks and latches for correct hand and correct operation of specified lock functions. Adjust all spring-loaded devices for operation against wind conditions; friction from door coordinators, and the like; conformity with manufacturer's design intent. Adjust door closers “Closing Force” and “Back Check” to properly control doors, and meet requirements of ADA and other codes for opening force, closing force, and closing speed. Instruct the Owner’s maintenance personnel in the proper methods of door closer adjustment.

3.4 Certification

Upon completion of hardware installation and adjustment, the respective hardware manufacturer’s representatives shall inspect the work, advise the contractor if all recommendations have been complied with, and advise contractor if further adjustment is required. When installation and adjustment is satisfactory to the manufacturer’s representative, he shall issue a certificate of compliance to contractor. The compliance certificate must also certify that the Owner has been given instruction in the proper adjustment of door closers. These certificates shall be submitted with the close out documents.

End Of Section

Section 10 14 63 Electronic Message Signage

Part 1 Execution

1.1 General

Applicable provisions found in the Bid/Contract Requirements and Division 1, General Requirements apply to the Work under this Section.

1.2 Scope

The work required under this Specification consists of fire-related exterior windows.

1.3 Related Work

A. Sustainable Design Requirements in Division 01
B. Electrical Design Requirements as specified in Division 26
C. Communications Design Requirements as specified in Division 27.

1.4 Quality Assurance

A. Provider must have at least 10 years of experience and at least 50 active ticker customers. The display hardware must be stamped for ETL Safety Certifications and meet or exceed the following requirements
    1. Dimensions:
        a. Height: 10.9” (64 Pixels) Straight / Rigid Cabinet; 10.1” (64 Pixels) Curved / Flexible Cabinet.
        b. Width: Coordinate with Drawings.
    2. Pixel Pitch: 0.16 inches (4mm)
    3. Full Color: >65,000 color shades
    4. Connectivity: Supports both WiFi and wired network connection
    5. Controller: No External computer or video processing unit, requiring a “system on a chip” deign
    6. Mounting Style – Straight, Flat wall mount for one type and Curved, Flexible suspended mount for one type.

1.5 Submittals

A. Refer to Section 01 33 00 Submittal Procedures.
B. Product Data: Submit manufacturer’s current technical literature for each type of product.
C. Shop Drawings; Submit detailed drawings showing:
    1. Ticker profiles.
    2. Location, layout and dimensions of tickers.
    3. Location and type of fasteners.
    4. Other details as may be required installation

1.6 Delivery, Storage And Handling

A. Refer to Section 01 60 00 – Product Requirements.

B. Deliver materials and components in manufacturer's original, unopened, undamaged packaging with identification labels intact.
C. Store materials on dry, level, firm, and clean surface.

1.9 Warranty

A. Refer to Section 01 78 02 Closeout Submittals.
   1. Five (5) year on-site warranty that covers all parts, shipping, and tech visits for the duration of the warranty.
   2. Remove monitoring of the ticker to provide proactive notifications if the display is offline for greater than 24 hours.

Part 2 Products

2.1 Manufacturer

A. Rise Display; 5075 Cameron Street, Ste G, Las Vegas, NV 89118; 1-913-717-8079 (www.risedisplay.com). Equal products by Ticker Play Systems (1-800-966-9329); Dynamo LED displays 0203-489-9878), or approved equal.
B. Basis of Design:
   1. Rise Display Straight / Rigid Cabinet – 64 pixels – 10.9"
   2. Rise Display Curved / Flexible Cabinet – 64 pixels – 10.1"

2.2 Ticker Software / Content

A. Software must include a perpetual software and data license. No ongoing annual renewal costs.
B. Mobile App based solution (no computer required) allowing for control from Apple or Android based devices. At a minimum, the app shall have the following display management features
   a. Control of the scroll speed.
   b. Control of the brightness
   c. Power save feature to configure when the ticker comes on and goes off automatically.
   d. Visibility to see if a ticker is online/offline from the App and if online view the last time it was connected.
C. Owner to have full control over what content plays with the ability to schedule content by date and/or time. Owner requires the ability to show the following content:
   a. Owner's own messages and .bmp graphics/images
   b. Public RSS feeds
   c. Real-time stock quotes for NYSE and Nasdaq markets with the option to select predefined lists (Dow 30, S&P 100, Nasdaq 100, etc) along with creating own custom watchlist of selected stocks.
   d. Life sports scores and betting odds for NFL, NBA, NHL, MLB, MLS and NCAA Basketball and Football.
   e. Google Sheets integration to show internal content from a shared spreadsheet.

Part 3 Execution

3.1 Examination

A. Provide field measurements as required to achieve proper fit.
B. Coordinate with electrical for power and data connections.

3.2 Installation

A. Installation must include shipping & handling costs along with installation of the ticker display
B. The installation must include a pre-installation site visit to field verify all dimensions and site conditions prior to installation,.

End Of Section

JOHNSON HALL RENOVATION - PKG 3 VOL 1

JOHNSON HALL RENOVATION & FOSTER DEMOLITION

SBC Nº 364/011-04-2022CM

TENNESSEE TECHNOLOGICAL UNIVERSITY COOKEVILLE, PUTNAM COUNTY, TN



JOHNSON HALL
1105 N. PEACHTREE AVE.
COOKEVILLE, TN 38501

REGULATORY REQUIREMENTS

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 ALL INCLUSIVE 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:
  1. CHAPTER 11 ACCESSIBILITY; AND,
  2. 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 PLUMBING CODE (IPC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);
(E) THE INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);
(F) THE INTERNATIONAL FIRE CODE (IFC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);
(G) 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, 2006 EDITION, SHALL APPLY TO THE FOLLOWING OCCUPANCY CLASSIFICATIONS AS DEFINED BY THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION:
  1. MODERATE-HAZARD FACTORY INDUSTRIAL, GROUP F-1;
  2. LOW-HAZARD FACTORY INDUSTRIAL, GROUP F-2;
  3. MODERATE-HAZARD STORAGE, GROUP S-1; AND,
  4. 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:
  1. THE INSTALLATION AND SERVICE STANDARDS OF PORTABLE FIRE EXTINGUISHERS AND FIXED FIRE EXTINGUISHER SYSTEMS IN TENN. COMP. R. & REGS. 0780-02-14-.02;
  2. THE STANDARDS FOR ENGAGING IN THE LIQUEFIED PETROLEUM GAS BUSINESS IN TENN. COMP. R. & REGS. 0780-02-17-.02.
(K) NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
(L) TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
(M) NFPA 13

CODE DATA

OCCUPANCY TYPE - B - BUSINESS (IBC 2012 SECTION 304.1)
A-3 - ASSEMBLY GROUP (IBC 2012 SECTION 303.4)

CONSTRUCTION TYPE - IIB SPRINKLERED (IBC TABLES 503/601)
RISK CATEGORY - III - BUILDINGS AND OTHER STRUCTURES CONTAINING ADULT EDUCATION FACILITIES, SUCH AS COLLEGES AND UNIVERSITIES, WITH AN OCCUPANT LOAD GREATER THAN 500.

ALLOWABLE BUILDING AREA (IBC 2012 TABLE 503)
BASE ALLOWABLE AREA: IIB - BUSINESS = 23,000 SQ. FT.
BASE ALLOWABLE AREA: IIB - ASSEMBLY A-3 = 9,500 SQ. FT.

MAX ALLOWABLE AREAS:
BUSINESS = 86,250 SQ. FT. (SEE FLOOR AREA PER OCCUPANCY ON LIFE SAFETY SHEETS FOR CALCULATIONS)
ASSEMBLY A-3 (LECTURE HALLS) = 35,625 SQ. FT. (SEE FLOOR AREA PER OCCUPANCY ON LIFE SAFETY SHEETS FOR CALCULATIONS)

ACTUAL AREAS:
1ST FLOOR: EXISTING 18,944 SF + NEW 2,450 SF + COVERED 1,343 SF = 22,737 SF
2ND FLOOR: EXISTING 17,080 SF + NEW 2,548 SF + COVERED 162 SF = 19,790 SF
3RD FLOOR: EXISTING 17,080 SF + NEW 2,296 SF + COVERED 162 SF = 19,538 SF
4TH FLOOR: EXISTING 14,874 SF + NEW 2,296 SF + COVERED 162 SF = 17,322 SF

TOTAL: EXISTING 67,978 SF + NEW 9,590 SF + COVERED 1,829 SF = 79,387 SF

BUSINESS OCCUPANCY TOTAL: 69,912 SF
A-3 ASSEMBLY OCCUPANCY TOTAL: 9,475 SF

CODE DATA CONTINUED

SEISMIC DATA
SITE CLASS = C
SEISMIC DESIGN CATEGORY = B
RISK CATEGORY III
SEE STRUCTURAL SHEETS FOR MORE INFORMATION

HEIGHT CALCULATIONS
MAX ALLOWABLE HEIGHT: 55' (75' INCLUDING INCREASE ALLOWED BY IBC 2012 504.2)
ACTUAL HEIGHT OF BUILDING: 59'
MAX ALLOWABLE STORIES: 3 (4 INCLUDING INCREASED ALLOWED BY IBC 2012 504.2)
ACTUAL NUMBER OF STORIES: 4

WIND EXPOSURE CATEGORY - B

WIND RISK CATEGORY - II

IECC CLIMATE ZONE - 4A IECC 2012 FIGURE C301.1

REVISIONS PER CHANGE ORDERS AND SUPPLEMENTAL INSTRUCTIONS

TYPE (CO / SI)	DATE	DESCRIPTION OF WORK
ADDENDUM 1	5-16-25	FIRE MARSHAL COMMENTS AND OTHER ITEMS

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FIRE RESISTANCE

FIRE RESISTANCE RATING REQUIREMENTS

IBC 2012 - TABLE 601

BUILDING ELEMENTS	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR (f, g)	0
BEARING WALLS - INTERIOR	0
NON-BEARING WALLS & PARTITIONS (EXTERIOR)	0
NON-BEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0

f. NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE (SEE TABLE 602).

g. NOT LESS THAN THE FIRE-RESISTANCE RATING AS REFERENCED IN SECTION 704.10.

IBC TABLE 602 - FIRE SEPARATION DISTANCE IS GREATER THAN 30'.

INTERIOR FINISHES

803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLASH SPREAD AND SMOKE-DEVELOPED INDEXES:

CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

REQUIRED BY OCCUPANCY

GROUP A-3 (SPRINKLERED):	CLASS
INTERIOR EXIT PASSAGEWAYS:	B
CORRIDORS:	B
ROOMS AND ENCLOSED SPACES	C

GROUP B (SPRINKLERED):	CLASS
INTERIOR EXIT PASSAGEWAYS:	B
CORRIDORS:	C
ROOMS AND ENCLOSED SPACES:	C

FIRE-RATED SEPARATION NOTES:

REQUIRED SEPARATIONS BETWEEN OCCUPANCIES
REQUIRED SEPARATIONS BETWEEN OCCUPANCIES PER IBC 2012 TABLE 508.4. BETWEEN B AND A-3 (SPRINKLED) - 1 HOUR

CORRIDOR SEPARATION (WITH SPRINKLER FOR A AND B OCCUPANCIES): NO RATING (IBC TABLE 1018.1).

WINDOWS IN RATED APPLICATIONS
AUTOMATIC SPECIAL-PURPOSE SPRINKLER SYSTEM USED IN CONJUNCTION WITH FIXED GLAZED WALL ASSEMBLY TO PROVIDE AN ALTERNATIVE TO A TWO-HOUR FIRE-RESISTANCE-RATED NONLOAD-BEARING INTERIOR FIRE BARRIER ASSEMBLY PRESCRIBED IN IBC SECTION 707 PER ICC-ES EVALUATION REPORT ESR-2397. APPLICABLE FOR FIRE BARRIERS AND EXTERIOR WALL FOR UP TO 2-HOUR FIRE-RESISTANCE RATING (ICC-ES ESR-2397 3.1, 5.3).

ATRIUM SPRINKLER PROTECTION
ATRIUM SPACES SHALL BE SEPARATED FROM ADJACENT SPACES BY A 1-HOUR FIRE BARRIER CONSTRUCTED IN ACCORDANCE WITH SECTION 909. (IBC 2012 - 404.6)

A FIRE BARRIER IS NOT REQUIRED WHERE A GLASS WALL FORMING A SMOKE PARTITION IS PROVIDED. SPRINKLERS MUST BE PROVIDED ON THE ROOM SIDE ONLY IF THERE IS NO WALKWAY ON THE ATRIUM SIDE OF THE GLASS. GLASS WALLS MUST BE IN A GASKETED FRAME, AND GLASS DOORS SHALL BE SELF-CLOSING. (IBC 404.6 EXCEPTION 1, 1.1-1.3)

SMOKE CONTROL IS NOT REQUIRED FOR ATRIUMS THAT CONNECT ONLY TWO STORIES. (IBC 2012 - 404.5 EXCEPTION). THE THIRD FLOOR OF THE BUILDING IS SEALED OFF FROM THE ATRIUM. THE ATRIUM IS ONLY CONNECTING THE FIRST AND SECOND STORIES.

OPENINGS IN EXTERIOR WALLS
IBC 2012 - 705.8.2 EXCEPTION: OPENING PROTECTIVES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE EXTERIOR OPENINGS ARE PROTECTED BY A WATER CURTAIN USING AUTOMATIC SPRINKLES APPROVED FOR THAT USE.

PROJECT SUMMARY STATEMENT

EXISTING BUILDING RENOVATION OF AN EDUCATIONAL FACILITY WITH A TYPE II-B CONSTRUCTION. RENOVATION WILL UPDATE OUTDATED MECHANICAL AND ELECTRICAL AND INTERIOR ARCHITECTURAL ELEMENTS. NEW BUILDING ADDITIONS WILL BE ADDED TO INCREASE CIRCULATION AND EGRESS AND FREEUP PROGRAM SPACE IN THE BUILDING CORE. PROJECT SCOPE WILL ALSO INCLUDE MINOR LANDSCAPING AND GRADING TO ENHANCE BUILDING FRONTAGE.

RESPONDING FIRE DEPARTMENT

COOKEVILLE FIRE DEPARTMENT
P.O. BOX 998 - 45 EAST BROAD STREET
COOKEVILLE, TN 38503-0998
PHONE: 931-520-5236

LOCAL BUILDING INSPECTOR

COOKEVILLE CITY INSPECTOR - JEREMY GLASCOCK
45 EAST BROAD STREET
COOKEVILLE, TN 38501
PHONE: 931-520-5268

DESIGN TEAM

CIVIL ENGINEER
CIVIL ENGINEERING & SURVEYING
214 E. STEVENS STREET
COOKEVILLE, TN 38501
PHONE: 931-528-5266
WWW.CES-TN.COM

ASSOCIATED ARCHITECT
UPLAND DESIGN GROUP, INC.
P.O. BOX 1026
CROSSVILLE, TN 38555
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FAX: 931-484-2351
WWW.UPLANDDESIGNGROUP.COM

STRUCTURAL ENGINEER
LOGAN PATRI ENGINEERING
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COMMUNITY TECTONICS ARCHITECTS — 7610 Gleason Road, Knoxville, TN 37919 — Ph. (865) 637-8890 — www.communitytectonics.com
Upland Design Group — P.O. Box 1026, Crossville, TN 38557 — Ph. (931) 484-7541 — www.uplanddesigngroup.com
W&O Construction — 550 Construction Drive, Livingston, TN 38570 — Ph. (931) 403-1000 — www.wocc.com

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO.
22025

ISSUE DATE
3-28-25

SHEET TITLE
COVER SHEET PACKAGE 3 VOL 1

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REVIEW
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COVER 1

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JOHNSON HALL RENOVATION - PKG 3 VOL 2

JOHNSON HALL RENOVATION & FOSTER DEMOLITION

SBC Nº 364/011-04-2022CM

TENNESSEE TECHNOLOGICAL UNIVERSITY COOKEVILLE, PUTNAM COUNTY, TN



JOHNSON HALL
1105 N. PEACHTREE AVE.
COOKEVILLE, TN 38501

REGULATORY REQUIREMENTS

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 ALL INCLUSIVE 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:
  1. CHAPTER 11 ACCESSIBILITY; AND,
  2. 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 PLUMBING CODE (IPC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);
(E) THE INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);
(F) THE INTERNATIONAL FIRE CODE (IFC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);
(G) 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, 2006 EDITION, SHALL APPLY TO THE FOLLOWING OCCUPANCY CLASSIFICATIONS AS DEFINED BY THE INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION:
  1. MODERATE-HAZARD FACTORY INDUSTRIAL, GROUP F-1;
  2. LOW-HAZARD FACTORY INDUSTRIAL, GROUP F-2;
  3. MODERATE-HAZARD STORAGE, GROUP S-1; AND,
  4. 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:
  1. THE INSTALLATION AND SERVICE STANDARDS OF PORTABLE FIRE EXTINGUISHERS AND FIXED FIRE EXTINGUISHER SYSTEMS IN TENN. COMP. R. & REGS. 0780-02-14-.02;
  2. THE STANDARDS FOR ENGAGING IN THE LIQUEFIED PETROLEUM GAS BUSINESS IN TENN. COMP. R. & REGS. 0780-02-17-.02.
(K) NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
(L) TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
(M) NFPA 13

CODE DATA

OCCUPANCY TYPE - B - BUSINESS (IBC 2012 SECTION 304.1)
A-3 - ASSEMBLY GROUP (IBC 2012 SECTION 303.4)

CONSTRUCTION TYPE - IIB SPRINKLERED (IBC TABLES 503/601)
RISK CATEGORY - III - BUILDINGS AND OTHER STRUCTURES CONTAINING ADULT EDUCATION FACILITIES, SUCH AS COLLEGES AND UNIVERSITIES, WITH AN OCCUPANT LOAD GREATER THAN 500.

ALLOWABLE BUILDING AREA (IBC 2012 TABLE 503)
BASE ALLOWABLE AREA: IIB - BUSINESS = 23,000 SQ. FT.
BASE ALLOWABLE AREA: IIB - ASSEMBLY A-3 = 9,500 SQ. FT.

MAX ALLOWABLE AREAS:
BUSINESS = 86,250 SQ. FT. (SEE FLOOR AREA PER OCCUPANCY ON LIFE SAFETY SHEETS FOR CALCULATIONS)
ASSEMBLY A-3 (LECTURE HALLS) = 35,625 SQ. FT. (SEE FLOOR AREA PER OCCUPANCY ON LIFE SAFETY SHEETS FOR CALCULATIONS)

ACTUAL AREAS:
1ST FLOOR: EXISTING 18,944 SF + NEW 2,450 SF + COVERED 1,343 SF = 22,737 SF
2ND FLOOR: EXISTING 17,080 SF + NEW 2,548 SF + COVERED 162 SF = 19,790 SF
3RD FLOOR: EXISTING 17,080 SF + NEW 2,296 SF + COVERED 162 SF = 19,538 SF
4TH FLOOR: EXISTING 14,874 SF + NEW 2,296 SF + COVERED 162 SF = 17,322 SF

TOTAL: EXISTING 67,978 SF + NEW 9,590 SF + COVERED 1,829 SF = 79,387 SF

BUSINESS OCCUPANCY TOTAL: 69,912 SF
A-3 ASSEMBLY OCCUPANCY TOTAL: 9,475 SF

CODE DATA CONTINUED

SEISMIC DATA
SITE CLASS = C
SEISMIC DESIGN CATEGORY = B
RISK CATEGORY III
SEE STRUCTURAL SHEETS FOR MORE INFORMATION

HEIGHT CALCULATIONS
MAX ALLOWABLE HEIGHT: 55' (75' INCLUDING INCREASE ALLOWED BY IBC 2012 504.2)
ACTUAL HEIGHT OF BUILDING: 59'
MAX ALLOWABLE STORIES: 3 (4 INCLUDING INCREASED ALLOWED BY IBC 2012 504.2)
ACTUAL NUMBER OF STORIES: 4

WIND EXPOSURE CATEGORY - B

WIND RISK CATEGORY - II

IECC CLIMATE ZONE - 4A IECC 2012 FIGURE C301.1

REVISIONS PER CHANGE ORDERS AND SUPPLEMENTAL INSTRUCTIONS

	TYPE (CO / SI)	DATE	DESCRIPTION OF WORK
4	ADDENDUM #1	5-16-25	FIRE MARSHAL COMMENTS and MISC. ITEMS

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4

5/16/25

FIRE RESISTANCE

FIRE RESISTANCE RATING REQUIREMENTS

IBC 2012 - TABLE 601

BUILDING ELEMENTS	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS - EXTERIOR (f, g)	0
BEARING WALLS - INTERIOR	0
NON-BEARING WALLS & PARTITIONS (EXTERIOR)	0
NON-BEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0

f. NOT LESS THAN THE FIRE-RESISTANCE RATING BASED ON FIRE SEPARATION DISTANCE (SEE TABLE 602).

g. NOT LESS THAN THE FIRE-RESISTANCE RATING AS REFERENCED IN SECTION 704.10.

IBC TABLE 602 - FIRE SEPARATION DISTANCE IS GREATER THAN 30'.

INTERIOR FINISHES

803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLASH SPREAD AND SMOKE-DEVELOPED INDEXES:

CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

REQUIRED BY OCCUPANCY

GROUP A-3 (SPRINKLERED):	CLASS
INTERIOR EXIT PASSAGEWAYS:	B
CORRIDORS:	B
ROOMS AND ENCLOSED SPACES	C

GROUP B (SPRINKLERED):	CLASS
INTERIOR EXIT PASSAGEWAYS:	B
CORRIDORS:	C
ROOMS AND ENCLOSED SPACES:	C

FIRE-RATED SEPARATION NOTES:

REQUIRED SEPARATIONS BETWEEN OCCUPANCIES
REQUIRED SEPARATIONS BETWEEN OCCUPANCIES PER IBC 2012 TABLE 508.4. BETWEEN B AND A-3 (SPRINKLED) - 1 HOUR

CORRIDOR SEPARATION (WITH SPRINKLER FOR A AND B OCCUPANCIES): NO RATING (IBC TABLE 1018.1).

WINDOWS IN RATED APPLICATIONS
AUTOMATIC SPECIAL-PURPOSE SPRINKLER SYSTEM USED IN CONJUNCTION WITH FIXED GLAZED WALL ASSEMBLY TO PROVIDE AN ALTERNATIVE TO A TWO-HOUR FIRE-RESISTANCE-RATED NONLOAD-BEARING INTERIOR FIRE BARRIER ASSEMBLY PRESCRIBED IN IBC SECTION 707 PER ICC-ES EVALUATION REPORT ESR-2397. APPLICABLE FOR FIRE BARRIERS AND EXTERIOR WALL FOR UP TO 2-HOUR FIRE-RESISTANCE RATING (ICC-ES ESR-2397 3.1, 5.3).

ATRIUM SPRINKLER PROTECTION
ATRIUM SPACES SHALL BE SEPARATED FROM ADJACENT SPACES BY A 1-HOUR FIRE BARRIER CONSTRUCTED IN ACCORDANCE WITH SECTION 909. (IBC 2012 - 404.6)

A FIRE BARRIER IS NOT REQUIRED WHERE A GLASS WALL FORMING A SMOKE PARTITION IS PROVIDED. SPRINKLERS MUST BE PROVIDED ON THE ROOM SIDE ONLY IF THERE IS NO WALKWAY ON THE ATRIUM SIDE OF THE GLASS, GLASS WALLS MUST BE IN A GASKETED FRAME, AND GLASS DOORS SHALL BE SELF-CLOSING. (IBC 404.6 EXCEPTION 1, 1.1-1.3)

SMOKE CONTROL IS NOT REQUIRED FOR ATRIUMS THAT CONNECT ONLY TWO STORIES. (IBC 2012 - 404.5 EXCEPTION). THE THIRD FLOOR OF THE BUILDING IS SEALED OFF FROM THE ATRIUM. THE ATRIUM IS ONLY CONNECTING THE FIRST AND SECOND STORIES.

OPENINGS IN EXTERIOR WALLS
IBC 2012 - 705.8.2 EXCEPTION: OPENING PROTECTIVES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE EXTERIOR OPENINGS ARE PROTECTED BY A WATER CURTAIN USING AUTOMATIC SPRINKLES APPROVED FOR THAT USE.

PROJECT SUMMARY STATEMENT

EXISTING BUILDING RENOVATION OF AN EDUCATIONAL FACILITY WITH A TYPE II-B CONSTRUCTION. RENOVATION WILL UPDATE OUTDATED MECHANICAL AND ELECTRICAL AND INTERIOR ARCHITECTURAL ELEMENTS. NEW BUILDING ADDITIONS WILL BE ADDED TO INCREASE CIRCULATION AND EGRESS AND FREEUP PROGRAM SPACE IN THE BUILDING CORE. PROJECT SCOPE WILL ALSO INCLUDE MINOR LANDSCAPING AND GRADING TO ENHANCE BUILDING FRONTAGE.

RESPONDING FIRE DEPARTMENT

COOKEVILLE FIRE DEPARTMENT
P.O. BOX 998 - 45 EAST BROAD STREET
COOKEVILLE, TN 38503-0998
PHONE: 931-520-5236

LOCAL BUILDING INSPECTOR

COOKEVILLE CITY INSPECTOR - JEREMY GLASCOCK
45 EAST BROAD STREET
COOKEVILLE, TN 38501
PHONE: 931-520-5268

DESIGN TEAM

CIVIL ENGINEER	ASSOCIATED ARCHITECT	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	PLUMBING ENGINEER	ELECTRICAL ENGINEER
CIVIL ENGINEERING & SURVEYING	UPLAND DESIGN GROUP, INC.	LOGAN PATRI ENGINEERING	MAFFETT LOFTIS ENGINEERING	MAFFETT LOFTIS ENGINEERING	MAFFETT LOFTIS ENGINEERING
214 E. STEVENS STREET COOKEVILLE, TN 38501 PHONE: 931-528-5266	P.O. BOX 1026 CROSSVILLE, TN 38555 PHONE: 931-484-7541 FAX: 931-484-2351	630 SOUTHGATE AVE, SUITE C NASHVILLE, TN 37203 PHONE: 615-726-2902	1 SOUTH JEFFERSON AVE, SUITE 101 COOKEVILLE, TN 38501 PHONE: 931-526-5143 FAX: 931-526-5153	1 SOUTH JEFFERSON AVE, SUITE 101 COOKEVILLE, TN 38501 PHONE: 931-526-5143 FAX: 931-526-5153	1 SOUTH JEFFERSON AVE, SUITE 101 COOKEVILLE, TN 38501 PHONE: 931-526-5143 FAX: 931-526-5153
WWW.CES-TN.COM	WWW.UPLANDDESIGNGROUP.COM	WWW.LOGANPATRIENGINEERING.COM	WWW.MAFFETT-LOFTIS.COM	WWW.MAFFETT-LOFTIS.COM	WWW.MAFFETT-LOFTIS.COM
DAVID SCOTT NICHOLS, REGISTERED ENGINEER, No. 105288, STATE OF TENNESSEE, 3-28-25	KIM ALLEN CHAMBERLIN, REGISTERED LANDSCAPE ARCHITECT, No. 1514, STATE OF TENNESSEE, AGRICULTURE, 3/28/25	HARSHINHA RAO PAREPALLY, REGISTERED ENGINEER, No. 140539, STATE OF TENNESSEE, 03/28/25	JUSTIN BLAKE NEWELL, REGISTERED ENGINEER, No. 121196, STATE OF TENNESSEE, 03/28/2025	JUSTIN BLAKE NEWELL, REGISTERED ENGINEER, No. 121196, STATE OF TENNESSEE, 03/28/2025	GARY DALE LOFTIS, REGISTERED ENGINEER, No. 111196, STATE OF TENNESSEE, 03/28/2025

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Upland Design Group
P.O. Box 1026, Crossville, TN 38557, Ph. (931) 484-7541, www.uplanddesigngroup.com

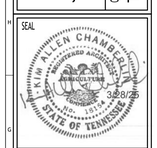
W&O Construction
550 Construction Drive, Livingston, TN 38570, Ph. (931) 403-1000, www.wocc.com

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

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GRADING AND DRAINAGE PLAN NOTES:

1. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, GAS, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS UNDERGROUND UTILITIES, DEVICES, OR STRUCTURES), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.

2. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

3. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING SANITARY AND STORM SEWER STRUCTURES, PIPES AND ALL UTILITIES PRIOR TO CONSTRUCTION.

4. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATION.

5. THE SOIL MATERIALS SHOWN HEREON MAY BE DISTURBED BY CUTTING OR FILLING OPERATIONS PERFORMED DURING OR BEFORE DEVELOPMENT. THEREFORE, THE BUILDER OF ANY PROPOSED STRUCTURE SHALL INVESTIGATE THE CURRENT CONDITIONS AND CONSULT WITH A GEOTECHNICAL EXPERT OR OTHER QUALIFIED PERSON AS HE DEEMS APPROPRIATE TO ASSURE HIMSELF THAT THE DESIGN OF THE PROPOSED FOUNDATION IS ADEQUATE.

6. EXCESS TOPSOIL, IF ANY, SHALL BE STOCKPILED FOR RE-USE. ADDITIONAL TOPSOIL WILL BE REQUIRED.

7. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILTATION FROM LEAVING THE SITE AT ALL TIMES.

8. STRIP BUILDING AND PAVEMENT AREAS OF ALL ORGANIC TOPSOILS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LAWN AND LANDSCAPE AREAS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS

10. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A LICENSED GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL ENGINEERING REPORT. NOTIFY PROJECT ENGINEER IF ANY UNSUITABLE SOILS ARE FOUND.

11. COMPACTION TESTING IS MANDATORY FOR PARKING LOT, BUILDING SLAB AND FOUNDATIONS SUB-GRADE.

12. BASE COURSE PAVEMENT SHALL BE COMPACTED TO 100% STANDARD PROCTOR.

13. IT IS THE EARTHWORK CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SITE SOILS AND ENGINEERED FILLS WITH A WORKABLE MOISTURE CONTENT RANGE TO OBTAIN THE REQUIRED IN-PLACE DENSITY. SCARIFYING AND DRYING OPERATION SHOULD BE INCLUDED IN THE CONTRACTOR'S PRICE AND SHOULD NOT BE CONSIDERED AND EXTRA FOR THE CONTRACT.

14. FOLLOWING GRADING OF SUBSOIL TO SUBGRADE ELEVATIONS, THE CONTRACTOR SHALL PLACE A MINIMUM OF 8-INCHES OF TOPSOIL IN ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED, SMOOTHLY FINISH GRADE TO MEET SURROUNDING LAWN AREAS AND ENSURE POSITIVE DRAINAGE. STOCKPILED TOPSOIL SHALL BE SCREENED PRIOR TO RESPREADING. TOPSOILS SHALL BE FREE OF SUBSOIL DEBRIS, BRUSH AND STONES LARGER THAN 1" IN ANY DIMENSION. ROCK HOUNDING IN PLACE WILL NOT BE PERMITTED. SEE LANDSCAPE PLAN FOR ADDITIONAL SITE STABILIZATION REQUIREMENTS.

15. IN AREAS TO HAVE LAWNS AND OR LANDSCAPING, THAT ARE CURRENTLY UNDER GRAVEL OR PAVEMENT, THE PAVEMENT AND STONE SHALL BE REMOVED TO A DEPTH OF 18" UNLESS SOIL MATERIAL IS ENCOUNTERED AT A LESSER DEPTH. IN NO CASE SHALL LESS THAN 8-INCHES OF TOPSOIL BE INSTALLED.

16. AFTER FINE GRADING TOPSOIL, CONTRACTOR SHALL STABILIZE WITH SEED, FERTILIZER AND MULCH. ON SLOPES 4:1 OR STEEPER, SLOPES SHALL RECEIVE EROSION BLANKETS. CONTRACTOR SHALL FERTILIZE AND WATER UNTIL THE PROJECT IS DEEMED SUBSTAINTIALLY COMPLETE. THE RESTORATION SHALL CLOSELY FOLLOW CONSTRUCTION. SEE LANDSCAPE PLAN FOR ADDITIONAL SITE STABILIZATION REQUIREMENTS.

17. ELEVATIONS GIVEN ARE AT BOTTOM FACE OF CURB AND/OR FINISHED PAVEMENT GRADE UNLESS OTHERWISE SPECIFIED ON GRADING PLAN. ALL PAVEMENT SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM OF 1.5% SLOPE TOWARD THE COLLECTION POINTS UNLESS OTHERWISE SPECIFIED ON THE GRADING PLAN. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER.

18. CONTRACTOR SHALL PROVIDE BUTT END JOINT TO MEET EXISTING PAVEMENT IN ELEVATION AT DRIVE RETURNS AND ENSURE POSITIVE DRAINAGE.

19. ALL PIPES UNDER PAVED AREAS SHALL BE BACKFILLED TO SUBGRADE WITH COMPACTED CRUSHED STONE.

20. FILL MATERIAL, IF REQUIRED, SHALL BE BORROWED AT THE CONTRACTOR'S EXPENSE. FILL SHALL BE BORROWED FROM A TDEC PERMITTED SITE. IF THE BORROW SITE IS FOR THIS PROJECT ONLY, IT MAY BE ADDED TO THE PROJECT SWPPP AT THE CONTRACTOR'S EXPENSE.

21. CATCH BASINS SHALL BE PRECAST BY BARGER AND SONS, FOLEY PRODUCTS COMPANY OR ENGINEER APPPROVED EQUAL. SIZE SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE PIPE SIZE, FRAME AND GRATE SIZE AND PIPE DEFLECTION ANGLE FOR EACH STRUCTURE UNLESS OTHERWISE SPECIFIED.

22. FRAME AND GRATES FOR CATCH BASINS SHALL BE JBS #4315, EJIW #V5630 OR ENGINEER APPROVED EQUAL. FRAME AND GRATES FOR JUNCTION BOX INSTALLATION SHALL BE JBS #1072 EJIW#V1600-3 OR ENGINEER APPROVED EQUAL. CATCH BASIN GRATES IN PAVED AREAS SHALL BE ADA COMPLIANT.

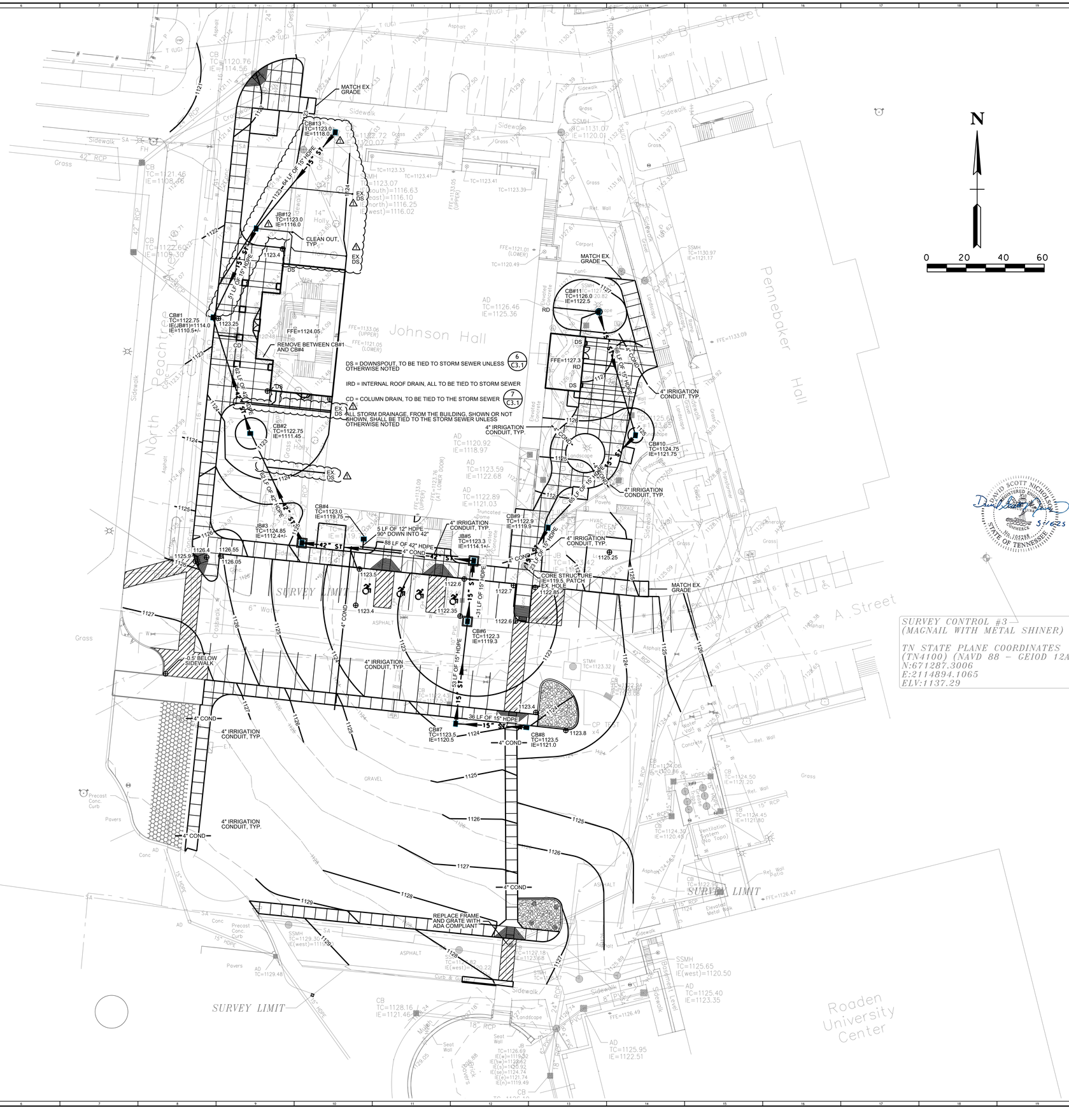
23. HDPE STORM SEWER PIPING SHALL BE SMOOTH INTERIOR, CORRUGATED EXTERIOR HDPE BY ADS, HANCOR OR ENGINEER APPROVED EQUAL.

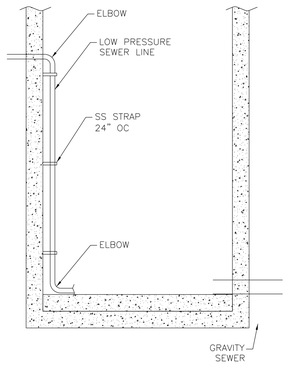
24. ALL DOWN SPOUT AND INTERNAL ROOF DRAIN CONNECTIONS TO COLLECTION PIPING SHALL BE MADE WITH MECHANICAL CONNECTION EITHER TEE OR SADDLE.

25. UNDERGROUND DOWNSPOUT LEADERS AND COLLECTORS MAY BE PVC OR HDPE. ANY PIPE ABOVE GRADE SHALL BE PVC.

~~26. IF NOT SHOWN ON THE PLAN, COLLECTOR PIPING SHALL HAVE A MINIMUM SLOPE OF 1%.~~

27. DOWN SPOUT CONNECTION PIPE SHALL BE SIZED TO ACCEPT DOWN SPOUT OR DOWN SPOUT BOOT SIZE.





FM CONNECTION TO MANHOLE

NOT TO SCALE

1

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

DAVID SCOTT NICHOLS — REGISTERED ENGINEER — No. 109348 — STATE OF TENNESSEE
5/19/25

DAVID SCOTT NICHOLS — REGISTERED ENGINEER — No. 109348 — STATE OF TENNESSEE
3/28/25

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NO.	DESCRIPTION	DATE
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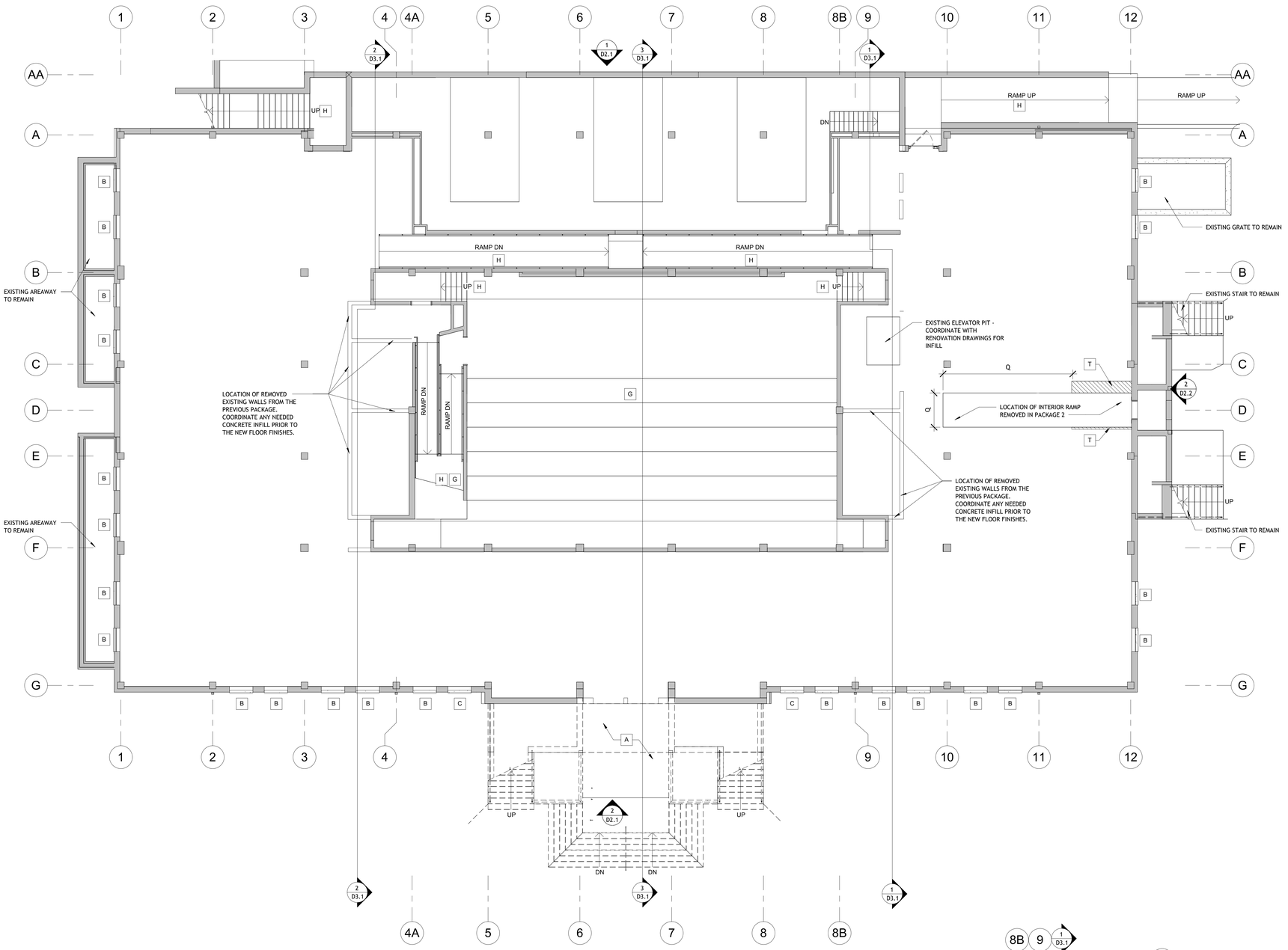
JOB NO.

ISSUE DATE
3-28-25

SHEET TITLE
GRADING PLAN

DRAWN DSN
REVIEW DSN

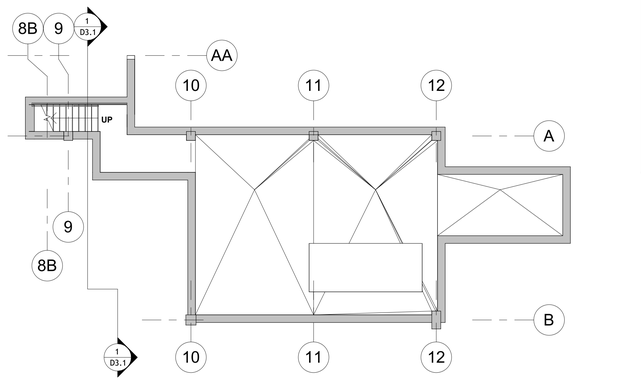
C2.1



FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

PLAN NORTH TRUE NORTH



CHILLER ROOM DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION KEY NOTES - PLANS - PACKAGE 3

KEYNOTES SHOWN ARE NOT PARTICULAR TO THIS FLOOR PLAN. REFER TO DEMOLITION PLAN FOR SCOPE ITEMS.

A. REMOVE & DISPOSE EXISTING CONCRETE STEPS & RELATED STRUCTURE IN THEIR ENTIRETY. DISPOSE OF RELATED PLANTERS, STOOPS, HANDRAILS / GUARDRAILS, PLANTERS, RELATED LANDSCAPING, & EXTERIOR LIGHT FIXTURES, SITE FURNISHINGS, AND ELECTRICAL ICE MELTING SYSTEM. CONTACT OWNER'S REP ABOUT REUSE OF ANY ITEMS. IF OWNER DOES NOT WANT EXISTING ITEMS, CONTRACTOR TO DISPOSE OF PROPERLY.

B. EXISTING METAL FRAMED WINDOW & ASSOCIATED GLAZING, HARDWARE, SEALANT AND RELATED JAMB TRIM REMOVED IN PACKAGE 2. PREP ROUGH OPENING FOR NEW WINDOW. COORDINATE WITH PROPOSED WORK AND EXISTING CONDITIONS.

C. EXISTING WINDOW, WINDOW FRAME, GLAZING, WINDOW TRIMS, HARDWARE, PRE-CAST STONE HEADS, SILLS, JAMBS, AND WINDOW PANELING REMOVED IN PACKAGE 2. PREP ROUGH OPENING TO RECEIVE NEW WINDOWS. COORDINATE WITH PROPOSED WORK AND EXISTING CONDITIONS.

D. REMOVE EXISTING PILASTER(S) AND ANY FRAMING AND BLOCKING BEHIND THEM.

E. REMOVE EXISTING EXTERIOR LIGHT FIXTURES. COORDINATE DISPOSAL WITH OWNER'S REPRESENTATIVE FOR RE-USE.

F. DEMO PORTION OF EXISTING WALL TO ALLOW FOR NEW OPENING. PROVIDE TEMPORARY SUPPORT UNTIL NEW HEADER CAN BE INSTALLED. COORDINATE WITH STRUCTURAL DRAWINGS FOR HEADER SUPPORTS.

G. EXISTING TIERED CONCRETE SUBFLOOR, RAMP, RISERS, AND STAIRS TO REMAIN.

H. EXISTING STAIR / RAMP AND ASSOCIATED HANDRAILS TO REMAIN.

I. EXISTING PRECAST STONE WINDOW TRIM TO REMAIN AT JAMB, AND HEAD OF EXISTING WINDOWS. SELECT DEMOLITION IN PACKAGE 2 OF WINDOW PANEL TO ALLOW FOR NEW DOOR. COORDINATE WITH PROPOSED DRAWINGS. PREP ROUGH OPENING TO RECEIVE NEW DOOR FRAME PER RENOVATION DETAILS.

J. EXISTING TIERED FLOOR AND STAIRS TO REMAIN. COORDINATE WITH ELECTRICAL AND RENOVATION DRAWINGS. PROTECT AS REQUIRED DURING ADJACENT DEMOLITION AND CONSTRUCTION.

K. REMOVE EXISTING GABLE END & HIPPED ROOF AND ALL ASSOCIATED CORNICE(S) AND ARCHED ENTRY PEDIMENT, ROOF STRUCTURE, AND ROOF GUTTERS BACK TO MAIN BRANCH.

L. REMOVE EXISTING DORMER AND DORMER WINDOW IN IT'S ENTIRETY. PROVIDE TEMPORARY ENCLOSURE UNTIL ROOF CAN BE PATCHED. COORDINATE WITH NEW WORK DRAWINGS.

M. EXISTING ROOF, ROOF DOWNSPOUTS, ROOF DRAINS, GUTTERS, AND ROOF MOUNTED EQUIPMENT TO REMAIN; PROTECT AND PRESERVE FOR THE DURATION OF CONSTRUCTION.

N. EXISTING ATTIC MEZZANINE TO REMAIN. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL FOR DEMOLITION OF MECHANICAL AND ELECTRICAL EQUIPMENT ON THAT MEZZANINE.

O. EXISTING ROOF, SHEATHING, UNDERLAYMENT AND RELATED FLASHING TO BE REMOVED. REMOVE ROOF JOISTS SHOWN DASHED IN PREPARATION FOR NEW PROGRAM SPACE ON FOURTH FLOOR. COORDINATE WITH STRUCTURAL.

P. <NOT USED>

Q. PREP FLOOR ADJACENT TO INTERIOR RAMP REMOVED IN PACKAGE 2. COORDINATE WITH RENOVATION DRAWINGS AND STRUCTURAL FOR SLAB TRANSITION DETAILS.

R. REMOVE TOP TIER RISER . COORDINATE WITH RENOVATION DRAWINGS FOR NEW FLOOR AND FINISHES. FIELD VERIFY DIMENSIONS AND CONSTRUCTION.

S. REMOVE EXISTING DOOR AND FRAME, PREP OPENING TO RECEIVE NEW DOOR AND FRAME. PROVIDE TEMPORARY SUPPORT UNTIL NEW HEADER CAN BE INSTALLED.

T. REMOVE PORTION OF EXISTING CONCRETE SLAB AS REQUIRED TO PORT NEW CONCRETE WALL PORTION SUPPORTING NEW SPRINKLER RISER ROOM FLOOR. COORDINATE WITH STRUCTURAL AND RENOVATION DRAWINGS.

U. REMOVE EXISTING RAILING SYSTEM. PREP EXISTING STAIRS TO RECEIVE GUARDRAIL REUSING EXISTING POST HOLES. ENLARGE HOLES AS REQUIRED.

DEMOLITION GENERAL NOTES - PACKAGE 3

1. FIELD VERIFY EXISTING CONDITIONS, MEASUREMENTS, AND LAYOUTS. CONTACT ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. COORDINATE DEMOLITION WORK WITH EXTENT OF NEW RENOVATION WORK ON ARCHITECTURAL, FIRE PROTECTION, MECHANICAL, PLUMBING AND ELECTRICAL SHEETS. FIELD VERIFY ABOVE CEILING CONNECTIONS AND COORDINATE WITH NEW HEIGHT AND PLACEMENT OF CEILING GRID, NEW AND EXISTING LIGHT LOCATIONS AND SPRINKLER PIPING. CONTRACTOR TO PROVIDE NEW FINISH TO AREAS TO REMAIN EXPOSED, DAMAGED BY CEILING WORK, ELECTRICAL, MECHANICAL, PLUMBING AND SPRINKLER INSTALLATION AND OTHER WORK ASSOCIATED WITH THE PROJECT.
3. COORDINATE WITH PACKAGE 2 FOR DEMOLITION AND ABATEMENT.
4. MAINTAIN EXISTING ROOF WARRANTIES OF PORTIONS OF ROOF TO REMAIN WHEN DEMOLISHING ADJACENT PORTIONS ASSOCIATED WITH THE NEW ADDITIONS.
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DEMOLITION WALL LEGEND

VARIES — EXISTING WALLS TO REMAIN. FIELD VERIFY EXISTING CONDITION, THICKNESS AND MATERIAL. PROTECT FROM DEMOLITION WORK. COORDINATE WITH ABATEMENT SPECIFICATIONS FOR ANY DEMOLITION OR REMEDIATION OF FINISHES ON EXISTING WALL TO REMAIN.

VARIES — REMOVE EXISTING WALL. FIELD VERIFY EXISTING CONDITION, THICKNESS AND MATERIAL. PROVIDE CLEAN STRAIGHT EDGE AT INTERSECTION OF WALLS AND FLOOR SLABS TO REMAIN. PROTECT EXISTING FLOORS AND WALLS TO REMAIN FROM DEMOLITION WORK.

REMOVE EXISTING DOOR. TURN ANY REMAINING EXISTING HARDWARE OVER TO OWNER. COORDINATE ANY DOORS NOT REUSED TO BE TURNED OVER TO OWNER. IF THE OWNER DOES NOT WANT HARDWARE, DOORS, AND/OR FRAMES, CONTRACTOR TO DISPOSE OF DOORS AND FRAMES.

EXISTING DOOR TO REMAIN. FIELD VERIFY SIZE AND LOCATIONS. VERIFY IN FIELD GOOD WORKING ORDER. IF EXISTING DOOR IS NOT IN GOOD WORKING ORDER, COORDINATE WITH DESIGNER IMMEDIATELY.

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — AGRICULTURE — No. 18814 — STATE OF TENNESSEE
5/16/25

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

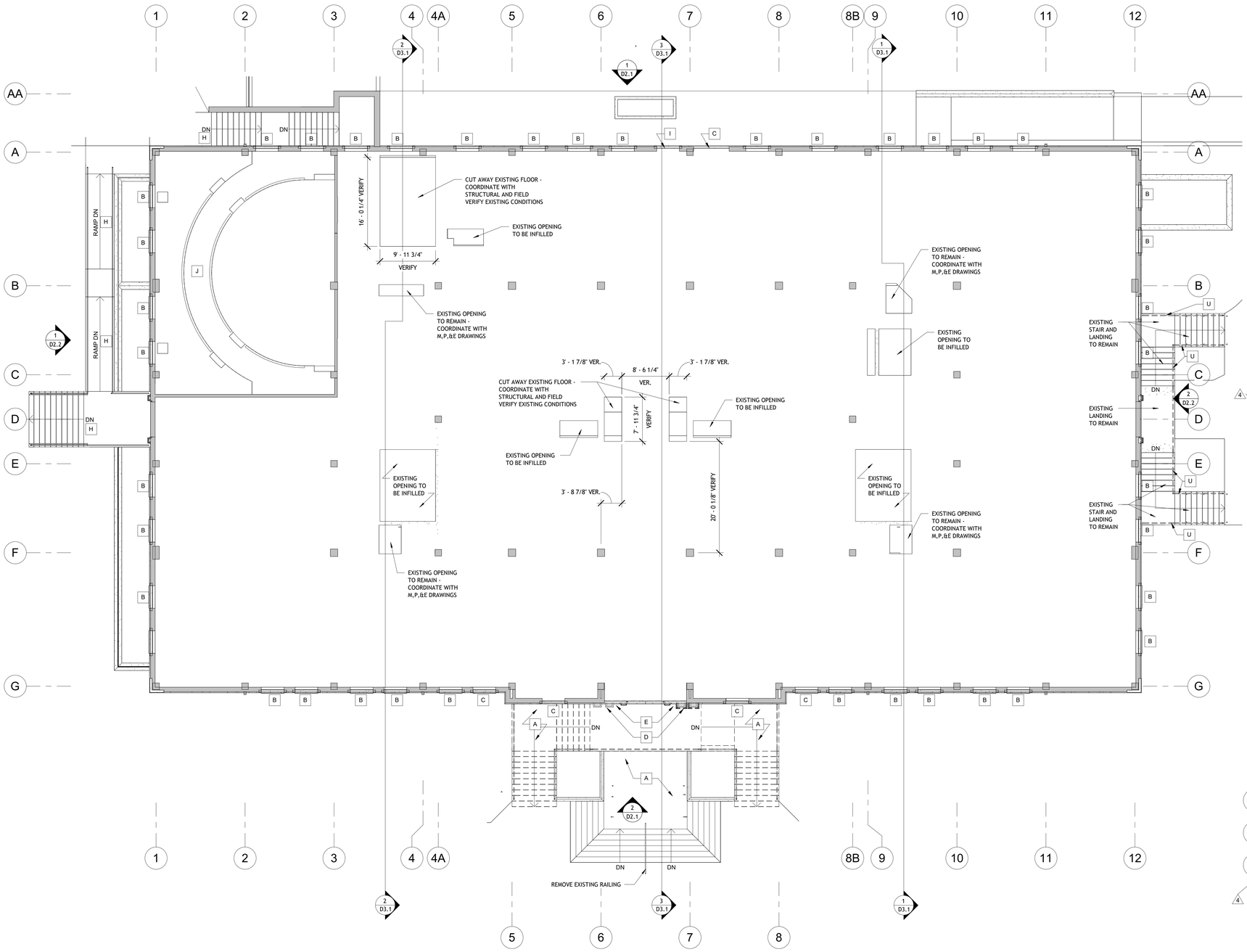
SHEET TITLE
DEMOLITION PLAN - FIRST FLOOR - PKG 3

DRAWN CWD

REVIEW KAC

D1.1

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SECOND FLOOR DEMOLITION PLAN

1/8" = 1'-0"

0 1'2" 4" 8"

PLAN NORTH

TRUE NORTH

DEMOLITION KEY NOTES - PLANS - PACKAGE 3

KEYNOTES SHOWN ARE NOT PARTICULAR TO THIS FLOOR PLAN. REFER TO DEMOLITION PLAN FOR SCOPE ITEMS.

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SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KEVIN ALLEN CHAMBERLAIN
REGISTERED ARCHITECT
No. 102174
STATE OF TENNESSEE
3/28/25

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

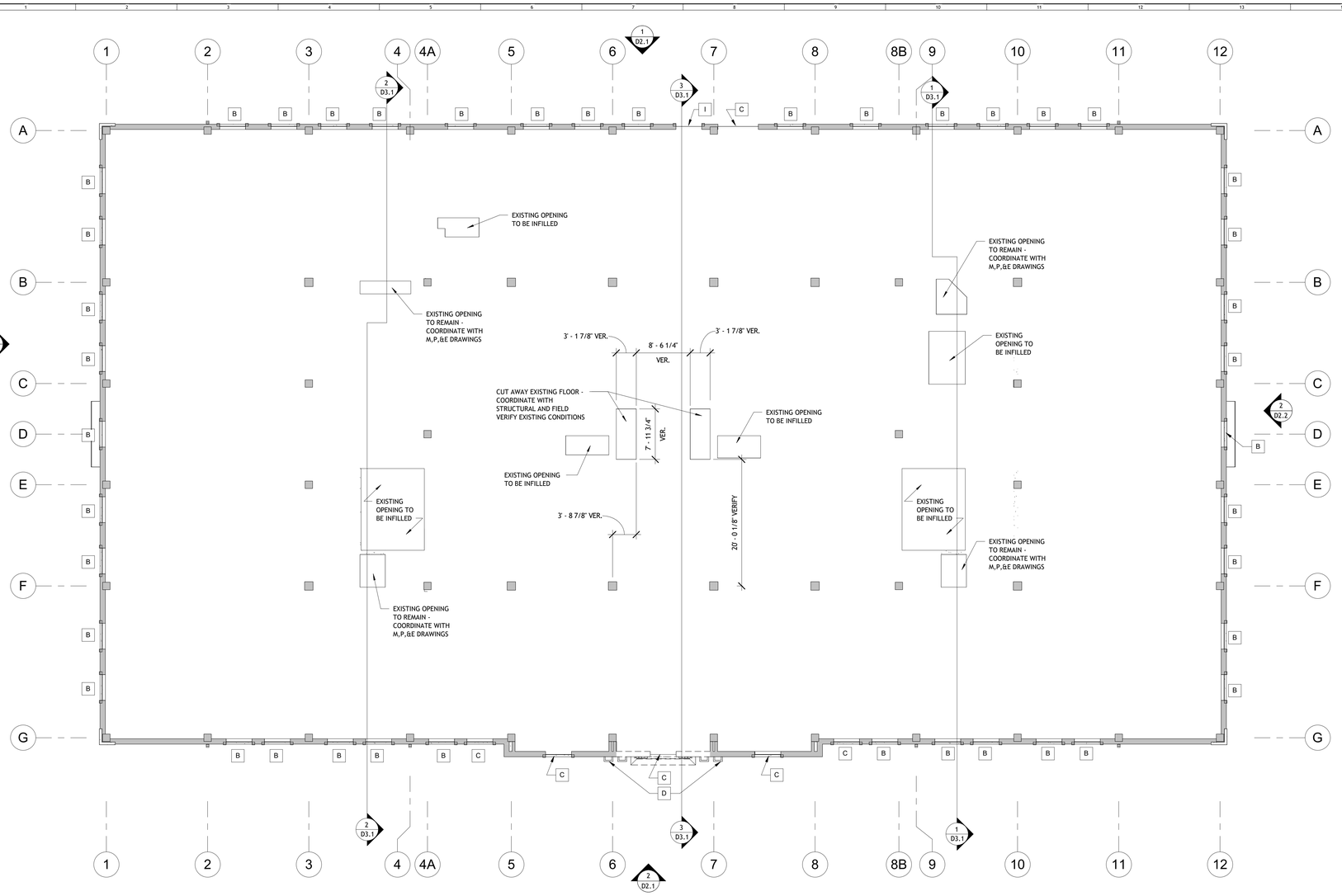
ISSUE DATE 3-28-25

SHEET TITLE
DEMOLITION PLAN - SECOND FLOOR - PKG 3

DRAWN CWD

REVIEW KAC

D1.2



THIRD FLOOR DEMOLITION PLAN

1/8" = 1'-0" 0 1' 2' 4' 8'

PLAN NORTH TRUE NORTH

DEMOLITION KEY NOTES - PLANS - PACKAGE 3

KEYNOTES SHOWN ARE NOT PARTICULAR TO THIS FLOOR PLAN. REFER TO DEMOLITION PLAN FOR SCOPE ITEMS.

A. REMOVE & DISPOSE EXISTING CONCRETE STEPS & RELATED STRUCTURE IN THEIR ENTIRETY. DISPOSE OF RELATED PLANTERS, STOOPS, HANDRAILS / GUARDRAILS, PLANTERS, RELATED LANDSCAPING, & EXTERIOR LIGHT FIXTURES, SITE FURNISHINGS, AND ELECTRICAL ICE MELTING SYSTEM. CONTACT OWNER'S REP ABOUT REUSE OF ANY ITEMS. IF OWNER DOES NOT WANT EXISTING ITEMS, CONTRACTOR TO DISPOSE OF PROPERLY.

B. EXISTING METAL FRAMED WINDOW & ASSOCIATED GLAZING, HARDWARE, SEALANT AND RELATED JAMB TRIM REMOVED IN PACKAGE 2. PREP ROUGH OPENING FOR NEW WINDOW. COORDINATE WITH PROPOSED WORK AND EXISTING CONDITIONS.

C. EXISTING WINDOW, WINDOW FRAME, GLAZING, WINDOW TRIMS, HARDWARE, PRE-CAST STONE HEADS, SILLS, JAMBS, AND WINDOW PANELING REMOVED IN PACKAGE 2. PREP ROUGH OPENING TO RECEIVE NEW WINDOWS. COORDINATE WITH PROPOSED WORK AND EXISTING CONDITIONS.

D. REMOVE EXISTING PILASTER(S) AND ANY FRAMING AND BLOCKING BEHIND THEM.

E. REMOVE EXISTING EXTERIOR LIGHT FIXTURES. COORDINATE DISPOSAL WITH OWNER'S REPRESENTATIVE FOR RE-USE.

F. DEMO PORTION OF EXISTING WALL TO ALLOW FOR NEW OPENING. PROVIDE TEMPORARY SUPPORT UNTIL NEW HEADER CAN BE INSTALLED. COORDINATE WITH STRUCTURAL DRAWINGS FOR HEADER SUPPORTS.

G. EXISTING TIERED CONCRETE SUBFLOOR, RAMP, RISERS, AND STAIRS TO REMAIN.

H. EXISTING STAIR / RAMP AND ASSOCIATED HANDRAILS TO REMAIN.

I. EXISTING PRECAST STONE WINDOW TRIM TO REMAIN AT JAMB, AND HEAD OF EXISTING WINDOWS. SELECT DEMOLITION IN PACKAGE 2 OF WINDOW PANEL TO ALLOW FOR NEW DOOR. COORDINATE WITH PROPOSED DRAWINGS. PREP ROUGH OPENING TO RECEIVE NEW DOOR FRAME PER RENOVATION DETAILS.

J. EXISTING TIERED FLOOR AND STAIRS TO REMAIN. COORDINATE WITH ELECTRICAL AND RENOVATION DRAWINGS. PROTECT AS REQUIRED DURING ADJACENT DEMOLITION AND CONSTRUCTION.

K. REMOVE EXISTING GABLE END & HIPPED ROOF AND ALL ASSOCIATED CORNICE(S) AND ARCHED ENTRY PEDIMENT, ROOF STRUCTURE, AND ROOF GUTTERS BACK TO MAIN BRANCH.

L. REMOVE EXISTING DORMER AND DORMER WINDOW IN IT'S ENTIRETY. PROVIDE TEMPORARY ENCLOSURE UNTIL ROOF CAN BE PATCHED. COORDINATE WITH NEW WORK DRAWINGS.

M. EXISTING ROOF, ROOF DOWNSPOUTS, ROOF DRAINS, GUTTERS, AND ROOF MOUNTED EQUIPMENT TO REMAIN; PROTECT AND PRESERVE FOR THE DURATION OF CONSTRUCTION.

N. EXISTING ATTIC MEZZANINE TO REMAIN. COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL FOR DEMOLITION OF MECHANICAL AND ELECTRICAL EQUIPMENT ON THAT MEZZANINE.

O. EXISTING ROOF, SHEATHING, UNDERLAYMENT AND RELATED FLASHING TO BE REMOVED. REMOVE ROOF JOISTS SHOWN DASHED IN PREPARATION FOR NEW PROGRAM SPACE ON FOURTH FLOOR. COORDINATE WITH STRUCTURAL.

P. <NOT USED>

Q. PREP FLOOR ADJACENT TO INTERIOR RAMP REMOVED IN PACKAGE 2. COORDINATE WITH RENOVATION DRAWINGS AND STRUCTURAL FOR SLAB TRANSITION DETAILS.

R. REMOVE TOP TIER RISER . COORDINATE WITH RENOVATION DRAWINGS FOR NEW FLOOR AND FINISHES. FIELD VERIFY DIMENSIONS AND CONSTRUCTION.

S. REMOVE EXISTING DOOR AND FRAME, PREP OPENING TO RECEIVE NEW DOOR AND FRAME. PROVIDE TEMPORARY SUPPORT UNTIL NEW HEADER CAN BE INSTALLED.

T. REMOVE PORTION OF EXISTING CONCRETE SLAB AS REQUIRED TO PORT NEW CONCRETE WALL PORTION SUPPORTING NEW SPRINKLER RISER ROOM FLOOR. COORDINATE WITH STRUCTURAL AND RENOVATION DRAWINGS.

U. REMOVE EXISTING RAILING SYSTEM. PREP EXISTING STAIRS TO RECEIVE GUARDRAIL REUSING EXISTING POST HOLES. ENLARGE HOLES AS REQUIRED.

DEMOLITION GENERAL NOTES - PACKAGE 3

1. FIELD VERIFY EXISTING CONDITIONS, MEASUREMENTS, AND LAYOUTS. CONTACT ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. COORDINATE DEMOLITION WORK WITH EXTENT OF NEW RENOVATION WORK ON ARCHITECTURAL, FIRE PROTECTION, MECHANICAL, PLUMBING AND ELECTRICAL SHEETS. FIELD VERIFY ABOVE CEILING CONNECTIONS AND COORDINATE WITH NEW HEIGHT AND PLACEMENT OF CEILING GRID, NEW AND EXISTING LIGHT LOCATIONS AND SPRINKLER PIPING. CONTRACTOR TO PROVIDE NEW FINISH TO AREAS TO REMAIN EXPOSED, DAMAGED BY CEILING WORK, ELECTRICAL, MECHANICAL, PLUMBING AND SPRINKLER INSTALLATION AND OTHER WORK ASSOCIATED WITH THE PROJECT.
3. COORDINATE WITH PACKAGE 2 FOR DEMOLITION AND ABATEMENT.
4. MAINTAIN EXISTING ROOF WARRANTIES OF PORTIONS OF ROOF TO REMAIN WHEN DEMOLISHING ADJACENT PORTIONS ASSOCIATED WITH THE NEW ADDITIONS.
5. COORDINATE WITH CIVIL DRAWINGS FOR MORE INFORMATION ON DEMOLITION AND REWORK OF EXISTING GRADING, SIDEWALKS, PARKING, ROADS AND SITE UTILITIES.
6. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL FOR ADDITIONAL DEMOLITION NOTES AND REQUIREMENTS.

DEMOLITION WALL LEGEND

VARIES — EXISTING WALLS TO REMAIN. FIELD VERIFY EXISTING CONDITION, THICKNESS AND MATERIAL. PROTECT FROM DEMOLITION WORK. COORDINATE WITH ABATEMENT SPECIFICATIONS FOR ANY DEMOLITION OR REMEDIATION OF FINISHES ON EXISTING WALL TO REMAIN.

VARIES — REMOVE EXISTING WALL. FIELD VERIFY EXISTING CONDITION, THICKNESS AND MATERIAL. PROVIDE CLEAN STRAIGHT EDGE AT INTERSECTION OF WALLS AND FLOOR SLABS TO REMAIN. PROTECT EXISTING FLOORS AND WALLS TO REMAIN FROM DEMOLITION WORK.

REMOVE EXISTING DOOR. TURN ANY REMAINING EXISTING HARDWARE OVER TO OWNER. COORDINATE ANY DOORS NOT REUSED TO BE TURNED OVER TO OWNER. IF THE OWNER DOES NOT WANT HARDWARE, DOORS, AND/OR FRAMES, CONTRACTOR TO DISPOSE OF DOORS AND FRAMES.

EXISTING DOOR TO REMAIN. FIELD VERIFY SIZE AND LOCATIONS. VERIFY IN FIELD GOOD WORKING ORDER. IF EXISTING DOOR IS NOT IN GOOD WORKING ORDER, COORDINATE WITH DESIGNER IMMEDIATELY.

KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — TENNESSEE — STATE OF TENNESSEE — 5/16/25

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — TENNESSEE — STATE OF TENNESSEE — 3/28/25

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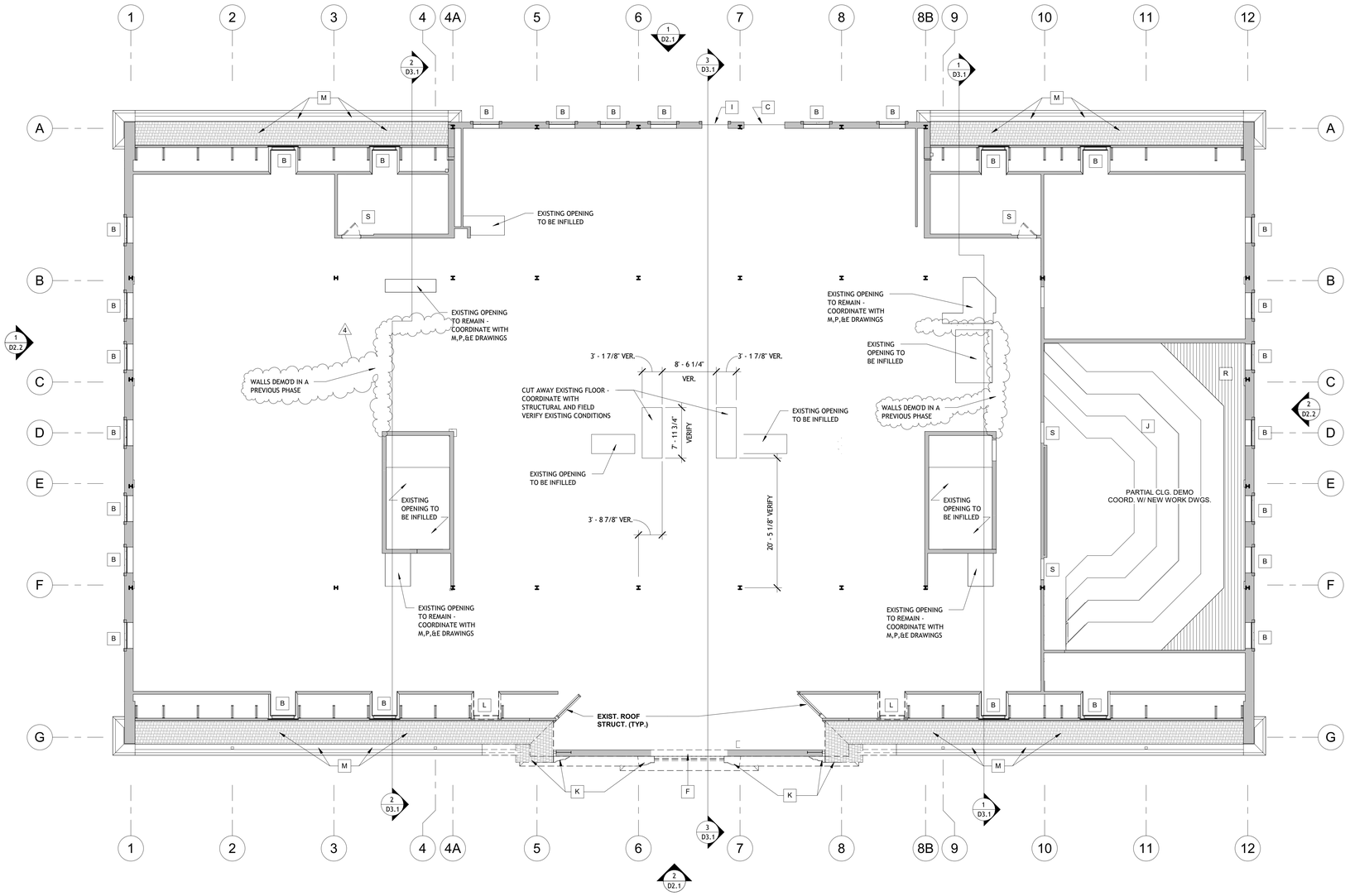
SHEET TITLE
DEMOLITION PLAN - THIRD FLOOR - PKG 3

DRAWN CWD

REVIEW KAC

D1.3

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FOURTH FLOOR DEMOLITION PLAN

1/8" = 1'-0"

0 1' 2' 4' 8'

PLAN NORTH TRUE NORTH

DEMOLITION KEY NOTES - PLANS - PACKAGE 3

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KIM ALLEN CHAMBERLIN REGISTERED ARCHITECT AGRICULTURE STATE OF TENNESSEE 5/16/25

4

DEMOLITION WALL LEGEND

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLIN REGISTERED ARCHITECT AGRICULTURE STATE OF TENNESSEE 3/28/25

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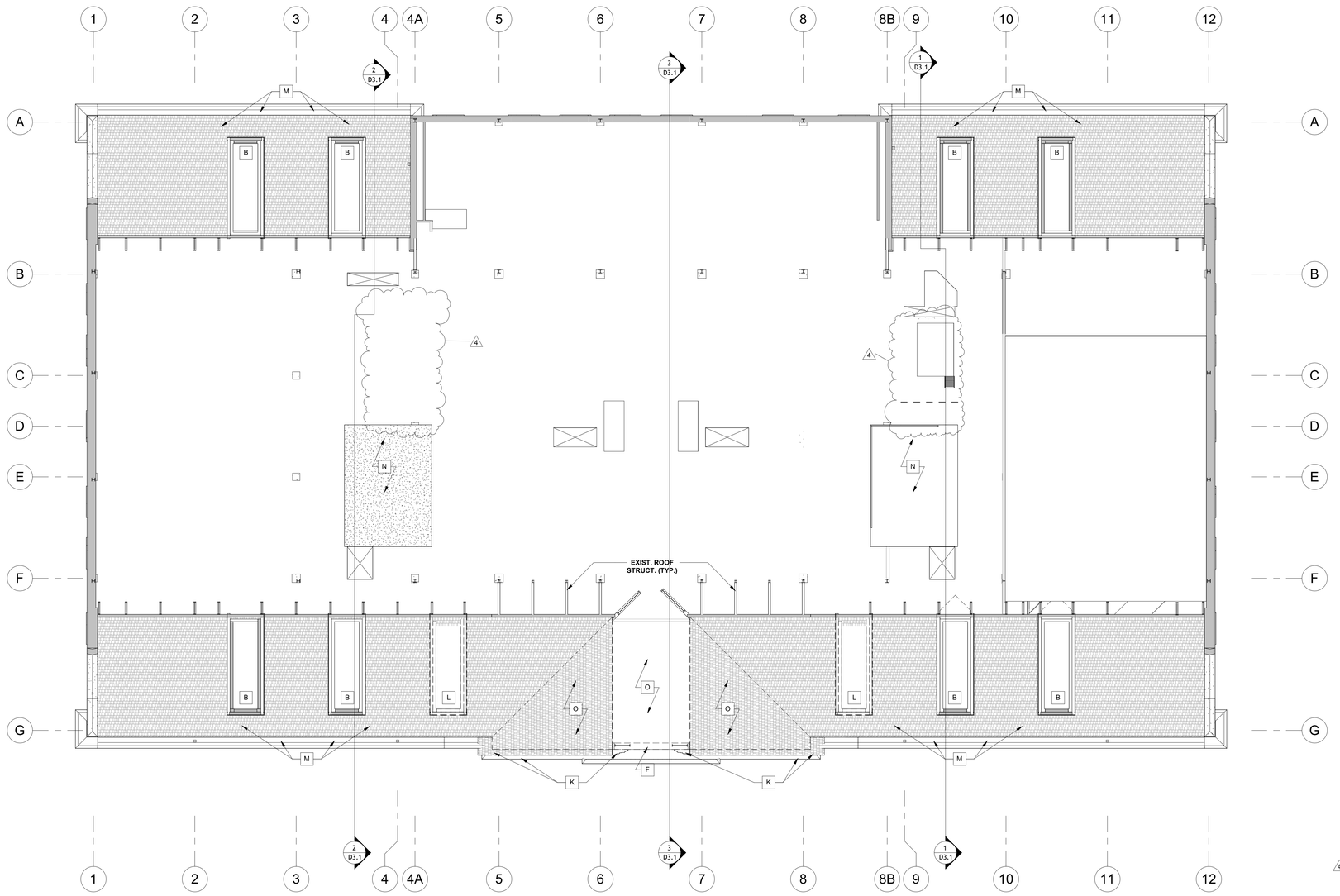
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DEMOLITION PLAN - FOURTH FLOOR - PKG 3

DRAWN CWD

REVIEW KAC

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ATTIC DEMOLITION PLAN

1/8" = 1'-0"

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PLAN NORTH TRUE NORTH

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SHEET TITLE
DEMOLITION PLAN - ATTIC

DRAWN CWD

REVIEW KAC

D1.5

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BUILDING CODE ANALYSIS

I. GOVERNING CODES

LISTED BELOW ARE THE REGULATORY REQUIREMENTS THAT APPLY TO THE 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 ALL INCLUSIVE 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:
1. CHAPTER 11 ACCESSIBILITY; AND,
2. 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 PLUMBING CODE (IPC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(E) THE INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(F) THE INTERNATIONAL FIRE CODE (IFC), 2012 EDITION, PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC);

(G) 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:
1. MODERATE-HAZARD FACTORY INDUSTRIAL, GROUP F-1;
2. LOW-HAZARD FACTORY INDUSTRIAL, GROUP F-2;
3. MODERATE-HAZARD STORAGE, GROUP S-1; AND,
4. LOW-HAZARD STORAGE, GROUP S-2

IECC CLIMATE ZONE 4A

(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:
1. THE INSTALLATION AND SERVICE STANDARDS OF PORTABLE FIRE EXTINGUISHERS AND FIXED FIRE EXTINGUISHER SYSTEMS IN TENN. COMP. R. & REGS. 0780-02-14-.02;
2. THE STANDARDS FOR ENGAGING IN THE LIQUEFIED PETROLEUM GAS BUSINESS IN TENN. COMP. R. & REGS. 0780-02-17-.02.

(K) NATIONAL ELECTRIC CODE, NFPA 70, 2017 EDITION, PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

(L) TENNESSEE PUBLIC BUILDING ACCESSIBILITY ACT 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

(M) IBC CHAPTER 8: INTERIOR FINISHES.

II. OCCUPANCY CLASSIFICATION

BUSINESS - B (IBC 2012 SECTION 304.1)
ASSEMBLY - ASSEMBLY GROUP A-3 (IBC 2012 SECTION 303.4)

III. CONSTRUCTION TYPE

II-B, SPRINKLERED (IBC TABLES 503/601) - THE BUILDING IS FULLY SPRINKLERED
- SPRINKLER SYSTEM DESIGN AND INSTALLED PER 2010 NFPA 13.
- RISK CATEGORY - BUILDINGS AND OTHER STRUCTURES CONTAINING ADULT EDUCATION FACILITIES, SUCH AS COLLEGES AND UNIVERSITIES, WITH AN OCCUPANT LOAD GREATER THAN 500.

IV. HEIGHT CALCULATIONS

MAX ALLOWABLE HEIGHT: 55 FEET + 20 FEET (IBC TABLE 503 AND 504.2) = 75 FEET TOTAL
MAX ALLOWABLE STORIES: 3 STORIES + 1 STORY FOR SPRINKLER (IBC TABLE 503 AND 504.2) = 4 STORIES TOTAL

ACTUAL HEIGHT: 59' FEET
ACTUAL STORIES: 4 STORIES

V. FIRE PREVENTION & EGRESS

FIRE RESISTIVE / CONSTRUCTION REQUIREMENTS (IBC TABLE 601)

	TYPE II-B
STRUCTURAL FRAME:	0 HOURS
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) (NFPA 39.3.6)

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)

STAIR WALL RATING
STAIRWAY ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE (IBC 2012 1009.3.1.2) NFPA 101 7.1.3.2.1(3) HAS AN EXCEPTION FOR EXISTING BUILDINGS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM TO BE 1-HOUR, BUT IBC IS MORE STRINGENT AND TAKES PRECEDENCE.

FIRE-RESISTIVE GLAZING
GLAZING IN FIRE WINDOW ASSEMBLIES PER IBC 2012 716.6 AND NFPA 80 SHALL BE TESTED PER NFPA 257 AND UL9. FIRE RESISTIVE GLAZING ASSEMBLIES THAT LIMIT RADIANT HEAT PER (NFPA 80), ANNEX 1 AND IBC 2012 TABLE 716.6 REQUIRE THE FIRE WINDOW ASSEMBLY TO MATCH THE FIRE-RESISTANCE RATING REQUIRED FOR THE WALL ASSEMBLY.

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.

MAXIMUM TRAVEL DISTANCE

NFPA 2012 EDITION 13.2.6 AND 13.2.6 AND IBC 2012 EDITION TABLE 1016.2

ALLOWABLE EXIT TRAVEL DISTANCE FOR AN EXISTING ASSEMBLY OCCUPANCY WITH A SPRINKLER SYSTEM (LARGE LECTURE HALLS) = 250 FEET

ALLOWABLE EXIT TRAVEL DISTANCE FOR AN EXISTING BUSINESS OCCUPANCY WITH A SPRINKLER SYSTEM (REST OF BUILDING) = 300 FEET

DEAD END CORRIDOR REQUIREMENTS - IBC 2012 - 1018.4 AND NFPA 39.2.5.2 (EXISTING BUSINESS OCCUPANCY): 50 FEET AND NFPA 13.2.5.1.3 (EXISTING ASSEMBLY OCCUPANCY): 20 FEET

PLUMBING FIXTURE COUNT

IPC 2012 EDITION 403.1.1 AND TABLE 403.1

THE BUSINESS PORTION OF THE BUILDING WILL TYPICALLY HAVE A TOTAL OCCUPANCY LOAD OF 1,645 (NOT INCLUDING MECHANICAL OR CIRCULATION SPACES)
ASSEMBLY SPACES - 483 Occ.
EDUCATIONS SPACES - 872 Occ.
BUSINESS SPACES - 232 Occ.

WATER CLOSETS COUNTS (W.C.)
ASSEMBLY SPACES - 483 Occ. (A-3 ASSEMBLY 1/125-MALE 1/65-FEMALE)
MALE 242 Occ. - 242/125 = 1.91
FEMALE 241 Occ. - 241/65 = 3.71

EDUCATION SPACES - 872 Occ. (E ASSEMBLY 1/50 MALE & FEMALE)
MALE 302 Occ. - 436 / 50 = 8.72
FEMALE 302 Occ. - 436 / 50 = 8.72

BUSINESS SPACES - 232 Occ. (B ASSEMBLY 1/25 FOR 1ST 50 then 1/50 EXCEEDING)
MALE 116 Occ. - ((116 - 50) /50) = 2 = 3.32
FEMALE 116 Occ. - ((116 - 50) /50) + 2 = 3.32

TOTAL REQUIRED WATER CLOSETS
MALE - 14 W.C. PROVIDED - 14 (4 UNISEX)
FEMALE - 16 W.C. PROVIDED - 20 (4 UNISEX)

LAVATORY COUNTS (LAV)
ASSEMBLY SPACES - 483 Occ. (A-3 1/200 MALE & FEMALE)
MALE 242 Occ. - 242/200 = 1.21
FEMALE 241 Occ. - 241/200 = 1.21

EDUCATION SPACES - 872 Occ. (E ASSEMBLY 1/50 MALE & FEMALE)
MALE 436 Occ. - 436 / 50 = 8.64
FEMALE 436 Occ. - 436 / 50 = 8.64

BUSINESS SPACES - 232 Occ. (B ASSEMBLY 1/40 FOR 1ST 80 then 1/80 EXCEEDING)
MALE 116 Occ. - ((116/40) = 2.9
FEMALE 116 Occ. - ((116/40) = 2.9

TOTAL REQUIRED LAVATORIES
MALE - 12 LAV. PROVIDED - 11 (4 UNISEX)
FEMALE - 12 LAV. PROVIDED - 14 (4 UNISEX)

DRINKING FOUNTAINS
ASSEMBLY SPACES - 483 Occ. (A-3 1/500)
483 / 500 = 0.97

EDUCATION SPACES - 872 Occ. (E 1/100)
872 / 100 = 8.72

BUSINESS SPACES - 116 Occ. (B 1/100)
116 / 100 = 1.16

TOTAL REQUIRED DRINKING FOUNTAINS
MALE - 11 FOUNTAINS PROVIDED - 16

SERVICE SINKS
MIN. REQUIRED PER IPC IS 1 TOTAL
CURRENT SERVICE SINKS IN FACILITY: 3

FLOOR AREA PER OCCUPANT

IBC 2012 EDITION TABLE 503

B TYPE IIB HAS A MAXIMUM ALLOWABLE SQUARE FOOTAGE PER FLOOR OF 23,000 SF.
A-3 TYPE IIB HAS A MAXIMUM ALLOWABLE SQUARE FOOTAGE PER FLOOR OF 9,500 SF.

IBC 2012 EDITION SECTION 506.1 ALLOWABLE SQUARE FOOTAGE INCREASE

LECTURE HALLS (ASSEMBLY -A3)
ALLOWABLE AREA PER STORY: Aa = [At + [At x If] + [At x Is]]

Aa = [9,500 + [9,500 x .75] + [9,500 x 2]]
Aa = [9,500 + 7,125 + 19,000]
Aa = 35,625 SQUARE FEET PER STORY - LECTURE HALLS

REST OF BUILDING (BUSINESS - B)
ALLOWABLE AREA PER STORY: Aa = [At + [At x If] + [At x Is]]

Aa = [23,000 + [23,000 x .75] + [23,000 x 2]]
Aa = [23,000 + 17,250 + 46,000]
Aa = 86,250 SQUARE FEET PER STORY - REST OF BUILDING

AUTOMATIC SPRINKLER SYSTEM INCREASE - IBC 2012 EDITION SECTION 506.3

200% INCREASE (Is = 2) FOR BUILDINGS WITH MORE THAN ONE STORY ABOVE GRADE PLAN.

FRONTAGE INCREASE - IBC 2012 EDITION 506.2
FRONTAGE INCREASE: If = [F / P - 0.25] W /30
If = [557'-8" / 557'-8" - 0.25] 30 / 30
If = [0.75] 1.0
If = 0.75

INTERIOR FINISHES

803.1.1 INTERIOR WALL AND CEILING FINISH MATERIALS
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLASH SPREAD AND SMOKE-DEVELOPED INDEXES:

CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.

REQUIRED BY OCCUPANCY

GROUP A-3 (SPRINKLERED):	**CLASS**
INTERIOR EXIT PASSAGEWAYS:	B
CORRIDORS:	B
ROOMS AND ENCLOSED SPACES	C

GROUP B (SPRINKLERED):	**CLASS**
INTERIOR EXIT PASSAGEWAYS:	B
CORRIDORS:	C
ROOMS AND ENCLOSED SPACES:	C

ROOM OCCUPANCY LOAD CALCULATION SUMMARY

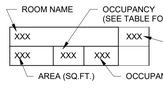
Room #	Name	Area	2012 IBC Table 1004.1.2 Minimum Egress Requirements	Occupancy Group	Occupancy	
					OLF	Occupancy Load
001	MECHANICAL ROOM	976 SF	Accessory storage areas, mechanical equipment room	M	300	4
101	PLAZA LOBBY	1606 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	108
102	ELEVATOR LEVEL 1	64 SF	No Classification Applies	-		
103	STAIR A LEVEL 1	374 SF	No Classification Applies	-		
104	LOWER PLAZA LOBBY	298 SF	No Classification Applies	-	0	
105	FIRST FLOOR LOBBY	365 SF	No Classification Applies	-		
106	WOMEN'S	187 SF	No Classification Applies	-	0	
107	ADA TLT.	58 SF	No Classification Applies	-	0	
108	JANITOR	41 SF	Accessory storage areas, mechanical equipment room	M	300	1
109	CORRIDOR	323 SF	No Classification Applies	-		
111	GRADUATE STUDIES	157 SF	Business Areas	B	100	2
112	GRADUATE STUDIES OFFICE	187 SF	Business Areas	B	100	2
113	STUDENT SUCCESS WAITING	592 SF	Business Areas	B	100	6
114	OFFICE	131 SF	Business Areas	B	100	2
115	OFFICE	133 SF	Business Areas	B	100	2
116	CLOSET	17 SF	(none)			
117	OFFICE	133 SF	Business Areas	B	100	2
118	CONFERENCE ROOM	277 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	19
119	OFFICE	134 SF	Business Areas	B	100	2
120	CLOSET	109 SF	Accessory storage areas, mechanical equipment room	M	300	1
121	ASSOCIATE DIRECTOR PRL	203 SF	Business Areas	B	100	3
122	PROF READINESS & LEADERSHIP	324 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	22
123	DIRECTOR ST. SUCCESS OFFICE	222 SF	Business Areas	B	100	3
124	CORR.	674 SF	No Classification Applies	-		
125	CORR.	120 SF	No Classification Applies	-		
126	CLOSET	41 SF	Accessory storage areas, mechanical equipment room	M	300	1
127	CLOTHES CLOSET	347 SF	Accessory storage areas, mechanical equipment room	M	300	2
127A	DRESSING	43 SF	Accessory storage areas, mechanical equipment room	M	300	1
129	STAIR B - LEVEL01	71 SF	No Classification Applies	-		
131	CORRIDOR	523 SF	No Classification Applies	-		
132	EXISTING MEC. / ELECT. ROOM	2120 SF	Accessory storage areas, mechanical equipment room	M	300	8
134	DRESSING	92 SF	Business Areas	B	100	1
135	ELECT.	62 SF	Accessory storage areas, mechanical equipment room	M	300	1
136	VIDEO INTERVIEW	138 SF	Business Areas	B	100	2
137	STUDENT ORG.	207 SF	Business Areas	B	100	3
138	RAMP	247 SF	No Classification Applies	-		
139	ELECT.	50 SF	Accessory storage areas, mechanical equipment room	M	300	1
141	AUDITORIUM	3144 SF	Educational - Classroom area - Net Area	E1	20	158
142	IT SUPPORT OFFICE	205 SF	Business Areas	B	100	3
143	SERVER ROOM	114 SF	Accessory storage areas, mechanical equipment room	M	300	1
144	CORR.	119 SF	No Classification Applies	-		
145	IT CLASSROOM	1288 SF	Educational - Classroom area - Net Area	E1	20	65
146	LACTATION ROOM	77 SF	Business Areas	B	100	1
147	PRINTER	87 SF	Business Areas	B	100	1
148	FIRE PUMP ROOM	117 SF	(none)			
149	CORRIDOR	531 SF	No Classification Applies	-		
150	STORAGE	146 SF	Accessory storage areas, mechanical equipment room	M	300	1
151	STUDIO / FILM RM.	298 SF	Business Areas	B	100	3
152	STUDENT COMMONS	299 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	20
153	OFFICE	214 SF	Business Areas	B	100	3
154	MBA DIRECTOR	222 SF	Business Areas	B	100	3
155	OFFICE	116 SF	Business Areas	B	100	2
156	OFFICE	116 SF	Business Areas	B	100	2
157	OFFICE	115 SF	Business Areas	B	100	2
158	ADA TOILET	108 SF	No Classification Applies	-	0	
159	MEN'S	187 SF	No Classification Applies	-	0	
160	CORRIDOR	333 SF	No Classification Applies	-		
202	ELEVATOR LEVEL 2	64 SF	No Classification Applies	-		
203	STAIR A LEVEL 2	383 SF	No Classification Applies	-		
204	2ND FLOOR ENTRY BALCONY	204 SF	No Classification Applies	-		
205	SECOND FLOOR LOBBY	368 SF	No Classification Applies	-		
206	WOMEN'S	187 SF	No Classification Applies	-	0	
207	ADA TLT	59 SF	No Classification Applies	-	0	
208	JANITOR	42 SF	Accessory storage areas, mechanical equipment room	M	300	1
209	CORRIDOR	363 SF	No Classification Applies	-		
211	OFFICE	118 SF	Business Areas	B	100	2
212	OFFICE	118 SF	Business Areas	B	100	2
213	OFFICE	118 SF	Business Areas	B	100	2
214	CLASSROOM	968 SF	Educational - Classroom area - Net Area	E1	20	49
215	OFFICE	112 SF	Business Areas	B	100	2
216	OFFICE	115 SF	Business Areas	B	100	2
217	OFFICE	115 SF	Business Areas	B	100	2
219	FOYER	86 SF	No Classification Applies	-	0	
221	CORRIDOR	170 SF	No Classification Applies	-		
222	CORRIDOR	308 SF	No Classification Applies	-		
223	TIERED CLASSROOM	1374 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	92
224	CORRIDOR	191 SF	No Classification Applies	-		
225	STUDENT COMMONS	124 SF	Business Areas	B	100	2
226	STAIR B	158 SF	No Classification Applies	-		
227	OFFICE	131 SF	Business Areas	B	100	2
228	OFFICE	121 SF	Business Areas	B	100	2
229	OFFICE	124 SF	Business Areas	B	100	2
231	STUDENT COMMONS	200 SF	Business Areas	B	100	2
232	EXT. BALCONY	160 SF	Business Areas	B	100	2
233	STAIR C LEVEL 2	404 SF	No Classification Applies	-		
234	CORRIDOR	374 SF	No Classification Applies	-		
235	STOR.	31 SF	Accessory storage areas, mechanical equipment room	M	300	1
236	BREAKOUT ROOM	163 SF	Business Areas	B	100	2
237	BREAKOUT ROOM	157 SF	Business Areas	B	100	2
238	ELECT.	31 SF	Accessory storage areas, mechanical equipment room	M	300	1
239	VENDING	140 SF	Business Areas	B	100	2
241	STUDENT LOUNGE	1372 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	92
242	CORRIDOR	456 SF	No Classification Applies	-		
243	TVA TRADING CLASSROOM	893 SF	Educational - Classroom area - Net Area	E1	20	45
244	I.T.	50 SF	Accessory storage areas, mechanical equipment room	M	300	1
245	BLOOMBERG LAB	837 SF	Educational - Classroom area - Net Area	E1	20	42
246	ELECT.	31 SF	Accessory storage areas, mechanical equipment room	M	300	1
247	CORRIDOR	743 SF	No Classification Applies	-		
248	OFFICE	123 SF	Business Areas	B	100	2
249	OFFICE	124 SF	Business Areas	B	100	2
250	STOR.	23 SF	Accessory storage areas, mechanical equipment room	M	300	1
251	OFFICE	123 SF	Business Areas	B	100	2
252	OFFICE	112 SF	Business Areas	B	100	2
253	MULTI PURPOSE	1292 SF	Educational - Classroom area - Net Area	E1	20	65
254	CORRIDOR	481 SF	No Classification Applies	-		
255	CORRIDOR	241 SF	No Classification Applies	-		
256	FOYER	108 SF	No Classification Applies	-		
260	COPY / STORAGE	177 SF	Accessory storage areas, mechanical equipment room	M	300	1
261	ADMIN.	215 SF	Business Areas	B	100	3
262	CHAIR	207 SF	Business Areas	B	100	3
263	ACCOUNTING ADMIN.	208 SF	Business Areas	B	100	3
264	ACCOUNTING CHAIR	198 SF	Business Areas	B	100	2
265	EF&M & ACCOUNTING CONF. RM.	194 SF	Business Areas	B	100	2
266	EF&M & ADMIN	222 SF	Business Areas	B	100	3
267	EF&M DPT. CHAIR	224 SF	Business Areas	B	100	3
268	CORRIDOR	513 SF	No Classification Applies	-		
269	MEN'S	187 SF	No Classification Applies	-	0	
302	ELEVATOR LEVEL 3	64 SF	No Classification Applies	-		
303	STAIR A LEVEL 3	381 SF	No Classification Applies	-		
304	3RD FLOOR BALCONY	194 SF	No Classification Applies	-	0	
305	THIRD FLOOR LOBBY	368 SF	No Classification Applies	-		
306	WOMEN'S	187 SF	No Classification Applies	-	0	
307	ADA TLT	56 SF	No Classification Applies	-	0	
308	JANITOR	40 SF	Accessory storage areas, mechanical equipment room	M	300	1
309	CORRIDOR	363 SF	No Classification Applies	-		
311	OFFICE	120 SF	Business Areas	B	100	2
312	OFFICE	119 SF	Business Areas	B	100	2

ROOM OCCUPANCY LOAD CALCULATION SUMMARY

Room #	Name	Area	2012 IBC Table 1004.1.2 Minimum Egress Requirements	Occupancy Group	Occupancy	
					OLF	Occupancy Load
313	OFFICE	119 SF	Business Areas	B	100	2
314	CLASSROOM	969 SF	Educational - Classroom area - Net Area	E1	20	49
315	CLASSROOM	1052 SF	Educational - Classroom area - Net Area	E1	20	53
316	CORR.	469 SF	No Classification Applies	-		
317	CLASSROOM	951 SF	Educational - Classroom area - Net Area	E1	20	48
318	OFFICE	131 SF	Business Areas	B	100	2
319	OFFICE	120 SF	Business Areas	B	100	2
321	OFFICE	121 SF	Business Areas	B	100	2
322	OFFICE	111 SF	Business Areas	B	100	2
323	BREAKOUT ROOM	146 SF	Business Areas	B	100	2
324	STUDENT COMMONS	202 SF	Business Areas	B	100	3
325	EXT. BALCONY	157 SF	Business Areas	B	100	2
326	STAIR C LEVEL 3	404 SF	No Classification Applies	-		
327	CORRIDOR	440 SF	No Classification Applies	-		
328	STOR.	31 SF	Accessory storage areas, mechanical equipment room	M	300	1
329	OFFICE	132 SF	Business Areas	B	100	2
331	OFFICE	131 SF	Business Areas	B	100	2
332	OFFICE	132 SF	Business Areas	B	100	2
333	ELECT.	31 SF	Accessory storage areas, mechanical equipment room	M	300	1
334	BEHAVIORAL RESEARCH LAB	756 SF	Educational - Classroom area - Net Area	E1	20	38
335	CONTROL	272 SF	Business Areas	B	100	3
336	BREAKOUT ROOM	151 SF	Business Areas	B	100	2
337	BREAKOUT ROOM	159 SF	Business Areas	B	100	2
338	STOR.	26 SF	Accessory storage areas, mechanical equipment room	M	300	1
339	STOR.	26 SF	Accessory storage areas, mechanical equipment room	M	300	1
340	CORRIDOR	536 SF	No Classification Applies	-		
341	STOR.	26 SF	Accessory storage areas, mechanical equipment room	M	300	1
342	CLASSROOM	1319 SF	Educational - Classroom area - Net Area	E1	20	66
343	STOR.	85 SF	Accessory storage areas, mechanical equipment room	M	300	1
344	I.T.	66 SF	Accessory storage areas, mechanical equipment room	M	300	1
345	OFFICE	130 SF	Business Areas	B	100	2
346	OFFICE	131 SF	Business Areas	B	100	2
347	ELECT.	30 SF	Accessory storage areas, mechanical equipment room	M	300	1
348	CORRIDOR	721 SF	No Classification Applies	-		
349	BREAKOUT ROOM	145 SF	Business Areas	B	100	2
351	OFFICE	119 SF	Business Areas	B	100	2
352	OFFICE	118 SF	Business Areas	B	100	2
353	OFFICE	117 SF	Business Areas	B	100	2
354	DEAN'S BOARD ROOM	711 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	48
355	KITCHEN - WORK RM.	116 SF	Business Areas	B	100	2
356	COPY RM.	70 SF	Business Areas	B	100	1
357	CORR.	129 SF	No Classification Applies	-		
358	DEAN'S OFFICE	231 SF	Business Areas	B	100	3
361	WAITING	118 SF	Business Areas	B	100	2
362	ENTRY	71 SF	No Classification Applies	-		
363	ADMIN. ASSIST.	211 SF	Business Areas	B	100	3
364	ASSOC. DEAN'S OFFICE	232 SF	Business Areas	B	100	3
365	CORR.	66 SF	No Classification Applies	-		
367	CORRIDOR	541 SF	No Classification Applies	-		
368	STUDENT WORK STATIONS	204 SF	Business Areas	B	100	3
371	DECISION SCIENCE MGMT.	174 SF	Business Areas	B	100	2
372	OFFICE	147 SF	Business Areas	B	100	2
373	FINANCIAL ASSIST.	145 SF	Business Areas	B	100	2
374	STOR.	20 SF	Accessory storage areas, mechanical equipment room	M	300	1
375	PROGRAM DEVELOP	200 SF	Business Areas	B	100	2
376	PROGRAM DEVELOP	207 SF	Business Areas	B	100	3
377	OFFICE	123 SF	Business Areas	B	100	2
378	CORRIDOR	397 SF	No Classification Applies	-		
379	STORAGE	123 SF	Accessory storage areas, mechanical equipment room	M	300	1
381	MEN'S	187 SF	No Classification Applies	-	0	
400	FOURTH FLOOR LOBBY	172 SF	No Classification Applies	-		
401	STUDENT COMMONS	690 SF	Assembly Areas without fixed seats, Unconcentrated (tables and chairs) - Net Area	A3	15	47
402	ELEVATOR LEVEL 4	64 SF	No Classification Applies	-		
403	STAIR A LEVEL 4	329 SF	No Classification Applies	-		
404	MECHANICAL	362 SF	Accessory storage areas, mechanical equipment room	M	300	2
404A	ELEV. EQUIP.	55 SF	Accessory storage areas, mechanical equipment room	M	300	1
406	FOURTH FLOOR LOBBY	260 SF	No Classification Applies	-		
407	ADA TLT.	48 SF	No Classification Applies	-	0	
408	ADA TLT.	49 SF	No Classification Applies	-	0	
409	JANITOR / STORAGE	157 SF	Accessory storage areas, mechanical equipment room	M	300	1
411	CORRIDOR	248 SF	No Classification Applies	-		
413	OFFICE	176 SF	Business Areas	B	100	2
414	ADMIN. ASST. OFFICE	242 SF	Business Areas	B	100	3
415	SR FACULTY OFFICE	231 SF	Business Areas	B	100	3
416	SR FACULTY OFFICE	193 SF	Business Areas	B	100	2
417	OFFICE	127 SF	Business Areas	B	100	2
418	CLASSROOM	899 SF	Educational - Classroom area - Net Area	E1	20	45
419	CORRIDOR	444 SF	No Classification Applies	-		
421	CLASSROOM	755 SF	Educational - Classroom area - Net Area	E1	20	38
422	WOMEN'S	129 SF	No Classification Applies	-	0	
423	OFFICE	152 SF	Business Areas	B	100	2
424	OFFICE	137 SF	Business Areas	B	100	2
425	OFFICE	140 SF	Business Areas	B	100	2
426	STUDENT COMMONS	231 SF	Business Areas	B	100	3
427	EXT. BALCONY	157 SF	Business Areas	B	100	2
428	STAI

LIFE SAFETY SYMBOLS

0	INDICATES OCCUPANT LOAD AT EXIT
F	FIRE ALARM MANUAL PULL STATION - MOUNT 48" A.F.F.
FEC	FIRE EXTINGUISHER CABINET
FE	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
MH	MAGNETIC HOLD OPEN DEVICE CONNECTED TO FIRE ALARM CONTROL PANEL
SD	SMOKE DETECTOR
HD	HEAT RISE DETECTOR
DD	DUCT DETECTOR
	SPRINKLER WALL WASH HEADS PER ICC-ES ESR-2397. APPLICABLE FOR FIRE BARRIERS AND EXTERIOR WALL FOR UP TO 2-HOUR FIRE RESISTANCE RATING (ICC-ES ESR-2397 3.1, 5.3). COORDINATE WITH FIRE PROTECTION DRAWINGS.
"FACP"	FIRE ALARM CONTROL PANEL - PROVIDED WITH BATTERY BACKUP PER NFPA REQUIREMENTS
"FAA"	FIRE ALARM ANNUCIATOR PANEL - PROVIDED WITH BATTERY BACKUP PER NFPA REQUIREMENTS.
D1	DOOR EXIT REQUIREMENT CALCULATIONS - SEE DOOR CAPACITY LEGEND
	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 ON THE LIFE-SAFETY CIRCUIT OF THE GENERATOR FOR OPERATION DURING LOSS OF NORMAL BUILDING POWER
	EXTERIOR EMERGENCY LIGHTING UNIT



GENERAL NOTES:
- COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATIONS OF EMERGENCY LIGHTS, EXIT SIGNS, FIRE ALARM PULL STATIONS, STROBES, AND SMOKE DETECTORS.
- COORDINATE W/ UL SHEETS FOR RATED WALLS' DETAILS.
- COORDINATE W/ MECHANICAL DRAWINGS FOR DAMPERS AND THRU-WALL DETAILS.

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 = 170 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 170 PERSONS = 170 PERSON EXIT CAPACITY	
D2	DOUBLE 36" DOOR 35" / EXIT = 175 PERSONS / EXIT 0.2" / PERSON 2 DOORS X 175 PERSONS = 350 PERSON EXIT CAPACITY	
D3	SINGLE 48" DOOR 46" / EXIT = 230 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 230 PERSONS = 230 PERSON EXIT CAPACITY	
D4	DOUBLE 30" DOOR 29" / EXIT = 145 PERSONS / EXIT 0.2" / PERSON 2 DOORS X 145 PERSONS = 290 PERSON EXIT CAPACITY	
D5	SINGLE 42" DOOR 40" / EXIT = 200 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 200 PERSONS = 200 PERSON EXIT CAPACITY	
D6	SINGLE 32" DOOR 30" / EXIT = 150 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 150 PERSONS = 150 PERSON EXIT CAPACITY	
D7	DOUBLE 42" DOOR 41" / EXIT = 205 PERSONS / EXIT 0.2" / PERSON 2 DOORS X 205 PERSONS = 410 PERSON EXIT CAPACITY	

SHAFT WALLS GENERAL NOTES

IBC 713.2 - SHAFT ENCLOSURES SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711, OR BOTH.

IBC 713.4 - SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENCLOSURES SHALL MEET THE REQUIREMENTS OF SECTION 703.2.1.

IBC 713.8 - PENETRATIONS IN A SHAFT ENCLOSURE SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714 AS REQUIRED FOR FIRE BARRIERS. STRUCTURAL ELEMENTS, SUCH AS BEAMS OR JOIST, WHERE PROTECTED IN ACCORDANCE WITH SECTION 714 SHALL BE PERMITTED TO PENETRATE A SHAFT ENCLOSURE.

IBC 713.10 - PENETRATIONS OF SHAFT ENCLOSURES BY DUCTS AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717.

IBC 713.11 - SHAFTS THAT DO NOT EXTEND TO THE BOTTOM OF THE BUILDING OR STRUCTURE - SHALL COMPLY WITH ONE OF THE FOLLOWING.
1. THEY NEED TO BE ENCLOSED AT THE LOWEST LEVEL WITH A FIRE-RESISTANT RATING AS THE LOWEST FLOOR BUT NOT LESS THAN THE SHAFT RATING.
2. THEY CAN TERMINATE AT A ROOM WITH A RELATED PURPOSE OF THE SHAFT, AND THAT ROOM SHALL BE SEPARATED FROM THE REST OF THE BUILDING BY A FIRE-RESISTANT RATING AT LEAST EQUAL TO THE SHAFT RATING.
3. THEY SHALL BE PROTECTED BY APPROVED FIRE DAMPERS INSTALLED AT THE LOWEST FLOOR LEVEL.

IBC 713.12 - SHAFTS THAT DO NOT EXTEND TO THE UNDERSIDE OF ROOF SHEATHING, DECK OR SLAB OF THE BUILDING SHALL BE ENCLOSED AT THE TOP WITH CONSTRUCTION OF THE SAME FIRE-RESISTANCE RATING AS THE TOPMOST FLOOR PENETRATED BY THE SHALL, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED FOR THE SHAFT ENCLOSURE.

SHAFT TYPE	NUMBER OF FLOORS CONNECTED	REQUIRED RATING
SH-A	2	1 HOUR
SH-B	4	2 HOUR

FLOOR AREA PER OCCUPANT

IBC 2012 EDITION TABLE 1004.1.2 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

A1	ASSEMBLY USE - CONCENTRATED (CHAIRS ONLY - NOT FIXED) - 7 S.F. NET/ PERSON
A2	ASSEMBLY USE - STANDING SPACE - 5 S.F. NET / PERSON
A3	ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 NET / PERSON
B	BUSINESS USE - 100 S.F. GROSS / PERSON
M	MECHANICAL / STORAGE USE - 300 S.F. GROSS / PERSON
E1	EDUCATIONAL - CLASSROOM AREAS - 20 S.F. NET / PERSON
E2	EDUCATIONAL - SHOPS AND VOCATIONAL USE - 50 S.F. NET / PERSON

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

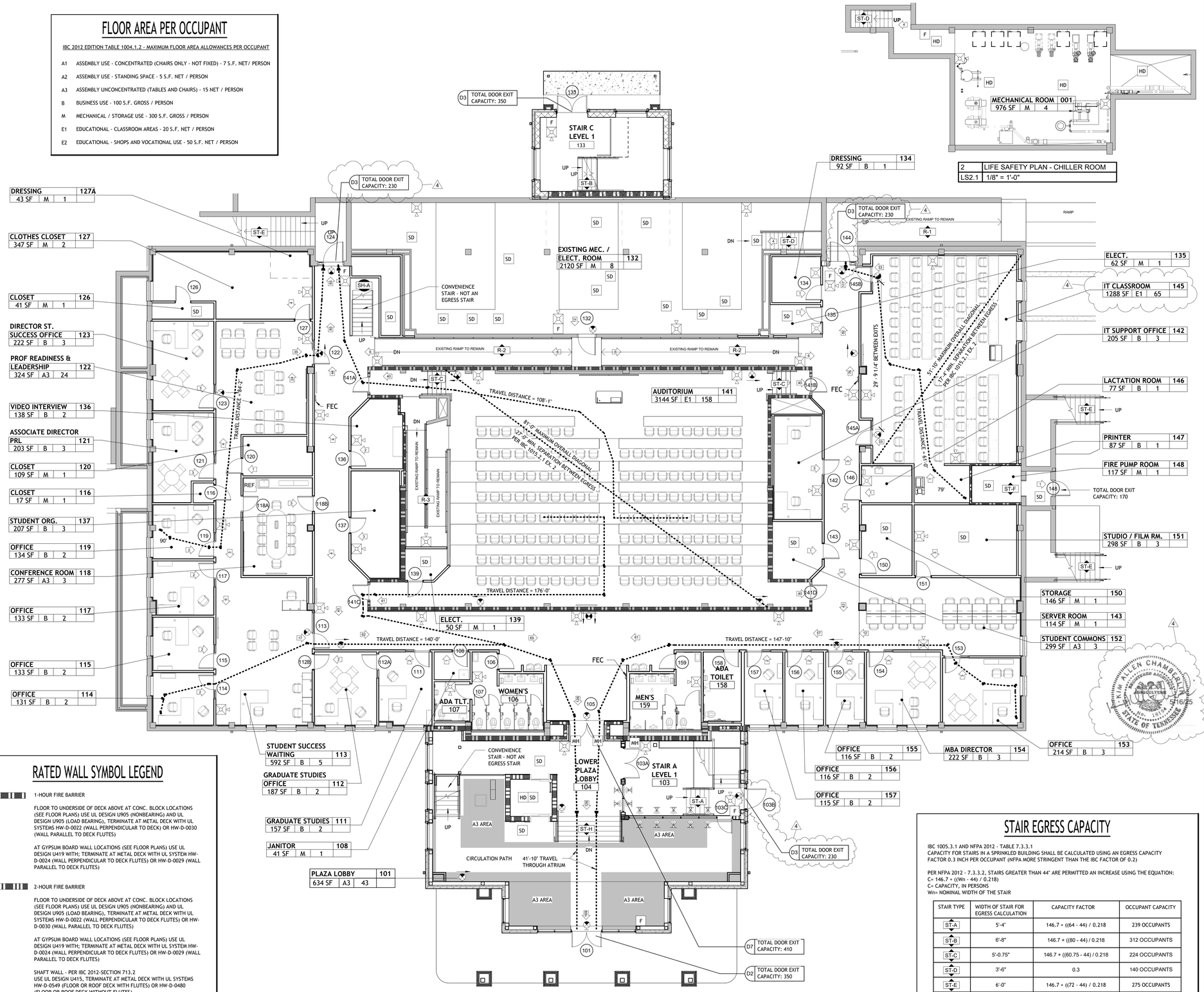
SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.

ATRIUM TRAVEL DISTANCE

IBC 2012 EDITION 404.9 - IN OTHER THAN THE LOWEST LEVEL OF THE ATRIUM. THE PORTION OF EXIT ACCESS TRAVEL DISTANCE WITHIN THE ATRIUM SPACE SHALL BE NOT GREATER THAN 200 FEET.



LIFE SAFETY PLAN - FIRST FLOOR

1/8" = 1'-0"

PLAN NORTH TRUE NORTH

STAIR EGRESS CAPACITY

IBC 1005.3.1 AND NFPA 2012 - TABLE 7.3.3.1
CAPACITY FOR STAIRS IN A SPRINKLED BUILDING SHALL BE CALCULATED USING AN EGRESS CAPACITY FACTOR 0.3 INCH PER OCCUPANT (NFPA MORE STRINGENT THAN THE IBC FACTOR OF 0.2)

PER NFPA 2012 - 7.3.3.2, STAIRS GREATER THAN 44" ARE PERMITTED AN INCREASE USING THE EQUATION:
C= 146.7 + ((Wn - 44) / 0.218)
C= CAPACITY, IN PERSONS
Wn= NOMINAL WIDTH OF THE STAIR

STAIR TYPE	WIDTH OF STAIR FOR EGRESS CALCULATION	CAPACITY FACTOR	OCCUPANT CAPACITY
ST-A	5'-4"	146.7 + ((64 - 44) / 0.218	239 OCCUPANTS
ST-B	6'-8"	146.7 + ((80 - 44) / 0.218	312 OCCUPANTS
ST-C	5'-0.75"	146.7 + ((60.75 - 44) / 0.218	224 OCCUPANTS
ST-D	3'-6"	0.3	140 OCCUPANTS
ST-E	6'-0"	146.7 + ((72 - 44) / 0.218	275 OCCUPANTS
ST-F	3'-4"	0.3	134 OCCUPANTS
ST-G	9'-0"	146.7 + ((108 - 44) / 0.218	441 OCCUPANTS
ST-H	13'-5"	146.7 + ((161 - 44) / 0.218	684 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.

IBC 1009.3 EXCEPTION 5 - EXIT ACCESS STAIRWAYS WITHIN AN ATRIUM COMPLYING WITH THE PROVISIONS OF SECTION 404 ARE NOT REQUIRED TO BE ENCLOSED.

2	LIFE SAFETY PLAN - CHILLER ROOM
LS2.1	1/8" = 1'-0"

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE
LIFE SAFETY PLAN - 1ST FLOOR

DRAWN CWD

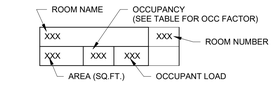
REVIEW KAC

LS2.1

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LIFE SAFETY SYMBOLS

0	INDICATES OCCUPANT LOAD AT EXIT
F	FIRE ALARM MANUAL PULL STATION - MOUNT 48" A.F.F.
FEC	FIRE EXTINGUISHER CABINET
FE	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
MH	MAGNETIC HOLD OPEN DEVICE CONNECTED TO FIRE ALARM CONTROL PANEL
SD	SMOKE DETECTOR
HD	HEAT RISE DETECTOR
DD	DUCT DETECTOR
	SPRINKLER WALL WASH HEADS PER ICC-ES ESR-2397. APPLICABLE FOR FIRE BARRIERS AND EXTERIOR WALL FOR UP TO 2-HOUR FIRE RESISTANCE RATING (ICC-ES ESR-2397 3.1, 5.3). COORDINATE WITH FIRE PROTECTION DRAWINGS.
"FACP"	FIRE ALARM CONTROL PANEL - PROVIDED WITH BATTERY BACKUP PER NFPA REQUIREMENTS
"FAA"	FIRE ALARM ANNUCIATOR PANEL - PROVIDED WITH BATTERY BACKUP PER NFPA REQUIREMENTS.
D1	DOOR EXIT REQUIREMENT CALCULATIONS - SEE DOOR CAPACITY LEGEND
	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 ON THE LIFE-SAFETY CIRCUIT OF THE GENERATOR FOR OPERATION DURING LOSS OF NORMAL BUILDING POWER
	EXTERIOR EMERGENCY LIGHTING UNIT



GENERAL NOTES:
- COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATIONS OF EMERGENCY LIGHTS, EXIT SIGNS, FIRE ALARM PULL STATIONS, STROBES, AND SMOKE DETECTORS.
- COORDINATE W/ UL SHEETS FOR RATED WALLS' DETAILS.
- COORDINATE W/ MECHANICAL DRAWINGS FOR DAMPERS AND THRU-WALL DETAILS.

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 = 170 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 170 PERSONS = 170 PERSON EXIT CAPACITY
D2	DOUBLE 36" DOOR 35" / EXIT = 175 PERSONS / EXIT 0.2" / PERSON 2 DOORS X 175 PERSONS = 350 PERSON EXIT CAPACITY
D3	SINGLE 48" DOOR 46" / EXIT = 230 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 230 PERSONS = 230 PERSON EXIT CAPACITY
D4	DOUBLE 30" DOOR 29" / EXIT = 145 PERSONS / EXIT 0.2" / PERSON 2 DOORS X 145 PERSONS = 290 PERSON EXIT CAPACITY
D5	SINGLE 42" DOOR 40" / EXIT = 200 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 200 PERSONS = 200 PERSON EXIT CAPACITY
D6	SINGLE 32" DOOR 30" / EXIT = 150 PERSONS / EXIT 0.2" / PERSON 1 DOOR X 150 PERSONS = 150 PERSON EXIT CAPACITY
D7	DOUBLE 42" DOOR 41" / EXIT = 205 PERSONS / EXIT 0.2" / PERSON 2 DOORS X 205 PERSONS = 410 PERSON EXIT CAPACITY

SHAFT WALLS GENERAL NOTES

IBC 713.2 - SHAFT ENCLOSURES SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711, OR BOTH.

IBC 713.4 - SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN FOUR STORIES. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES. SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS. SHAFT ENCLOSURES SHALL MEET THE REQUIREMENTS OF SECTION 703.2.1.

IBC 713.8 - PENETRATIONS IN A SHAFT ENCLOSURE SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714 AS REQUIRED FOR FIRE BARRIERS. STRUCTURAL ELEMENTS, SUCH AS BEAMS OR JOIST, WHERE PROTECTED IN ACCORDANCE WITH SECTION 714 SHALL BE PERMITTED TO PENETRATE A SHAFT ENCLOSURE.

IBC 713.10 - PENETRATIONS OF SHAFT ENCLOSURES BY DUCTS AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717.

IBC 713.11 - SHAFTS THAT DO NOT EXTEND TO THE BOTTOM OF THE BUILDING OR STRUCTURE - SHALL COMPLY WITH ONE OF THE FOLLOWING.
1. THEY NEED TO BE ENCLOSED AT THE LOWEST LEVEL WITH A FIRE-RESISTANT RATING AS THE LOWEST FLOOR BUT NOT LESS THAN THE SHAFT RATING.
2. THEY CAN TERMINATE AT A ROOM WITH A RELATED PURPOSE OF THE SHAFT, AND THAT ROOM SHALL BE SEPARATED FROM THE REST OF THE BUILDING BY A FIRE-RESISTANT RATING AT LEAST EQUAL TO THE SHAFT RATING.
3. THEY SHALL BE PROTECTED BY APPROVED FIRE DAMPERS INSTALLED AT THE LOWEST FLOOR LEVEL.

IBC 713.12 - SHAFTS THAT DO NOT EXTEND TO THE UNDERSIDE OF ROOF SHEATHING, DECK OR SLAB OF THE BUILDING SHALL BE ENCLOSED AT THE TOP WITH CONSTRUCTION OF THE SAME FIRE-RESISTANCE RATING AS THE TOPMOST FLOOR PENETRATED BY THE SHALL, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING REQUIRED FOR THE SHAFT ENCLOSURE.

SHAFT TYPE	NUMBER OF FLOORS CONNECTED	REQUIRED RATING
SH-A	2	1 HOUR
SH-B	4	2 HOUR

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

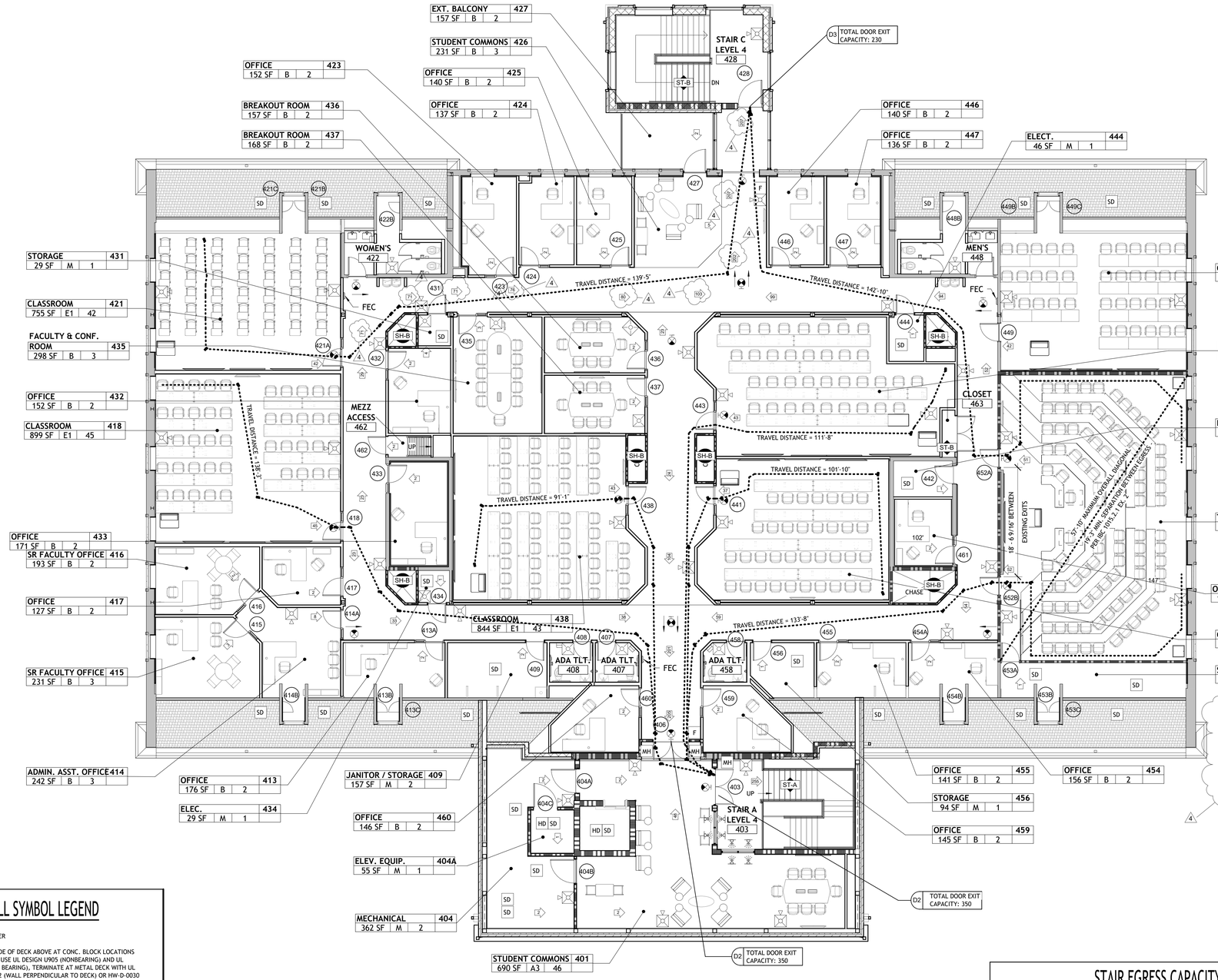
AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.



LIFE SAFETY PLAN - FOURTH FLOOR

1/8" = 1'-0"

PLAN NORTH TRUE NORTH

RAMP EGRESS CAPACITY

IBC 1005.3.2 AND NFPA 2012 - TABLE 7.3.3.1
CAPACITY FOR RAMPS IN A SPRINKLED BUILDING SHALL BE CALCULATED USING AN EGRESS CAPACITY FACTOR 0.2 INCH PER OCCUPANT (NFPA IS MORE STRINGENT AND OVERRIDES IBC EXCEPTION FOR SPRINKLER BUILDINGS.)

RAMP TYPE	CLEAR WIDTH OF RAMP	CAPACITY FACTOR	OCCUPANT CAPACITY
R-1	7'-9"	0.2	465 OCCUPANTS
R-2	5'-11"	0.2	355 OCCUPANTS
R-3	4'-0"	0.2	240 OCCUPANTS
R-4	4'-4"	0.2	260 OCCUPANTS

FLOOR AREA PER OCCUPANT

IBC 2012 EDITION TABLE 1004.1.2 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

A1	ASSEMBLY USE - CONCENTRATED (CHAIRS ONLY - NOT FIXED) - 7 S.F. NET/ PERSON
A2	ASSEMBLY USE - STANDING SPACE - 5 S.F. NET / PERSON
A3	ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS) - 15 NET / PERSON
B	BUSINESS USE - 100 S.F. GROSS / PERSON
M	MECHANICAL / STORAGE USE - 300 S.F. GROSS / PERSON
E1	EDUCATIONAL - CLASSROOM AREAS - 20 S.F. NET / PERSON
E2	EDUCATIONAL - SHOPS AND VOCATIONAL USE - 50 S.F. NET / PERSON

STAIR EGRESS CAPACITY

IBC 1005.3.1 AND NFPA 2012 - TABLE 7.3.3.1
CAPACITY FOR STAIRS IN A SPRINKLED BUILDING SHALL BE CALCULATED USING AN EGRESS CAPACITY FACTOR 0.3 INCH PER OCCUPANT (NFPA MORE STRINGENT THAN THE IBC FACTOR OF 0.2)

PER NFPA 2012 - 7.3.3.2, STAIRS GREATER THAN 44" ARE PERMITTED AN INCREASE USING THE EQUATION:
C= 146.7 + ((Wn - 44) / 0.218)
C= CAPACITY, IN PERSONS
Wn= NOMINAL WIDTH OF THE STAIR

STAIR TYPE	WIDTH OF STAIR FOR EGRESS CALCULATION	CAPACITY FACTOR	OCCUPANT CAPACITY
ST-A	5'-4"	146.7 + ((64 - 44) / 0.218	239 OCCUPANTS
ST-B	6'-8"	146.7 + ((80 - 44) / 0.218	312 OCCUPANTS
ST-C	5'-0.75"	146.7 + ((60.75 - 44) / 0.218	224 OCCUPANTS
ST-D	3'-6"	0.3	140 OCCUPANTS
ST-E	6'-0"	146.7 + ((72 - 44) / 0.218	275 OCCUPANTS
ST-F	3'-4"	0.3	134 OCCUPANTS
ST-G	9'-0"	146.7 + ((108 - 44) / 0.218	441 OCCUPANTS
ST-H	13'-5"	146.7 + ((161 - 44) / 0.218	684 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.

IBC 1009.3 EXCEPTION 5 - EXIT ACCESS STAIRWAYS WITHIN AN ATRIUM COMPLYING WITH THE PROVISIONS OF SECTION 404 ARE NOT REQUIRED TO BE ENCLOSED.

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLIN
REGISTERED ARCHITECT
AGRICULTURE
STATE OF TENNESSEE
3/28/25
4/16/25

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4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

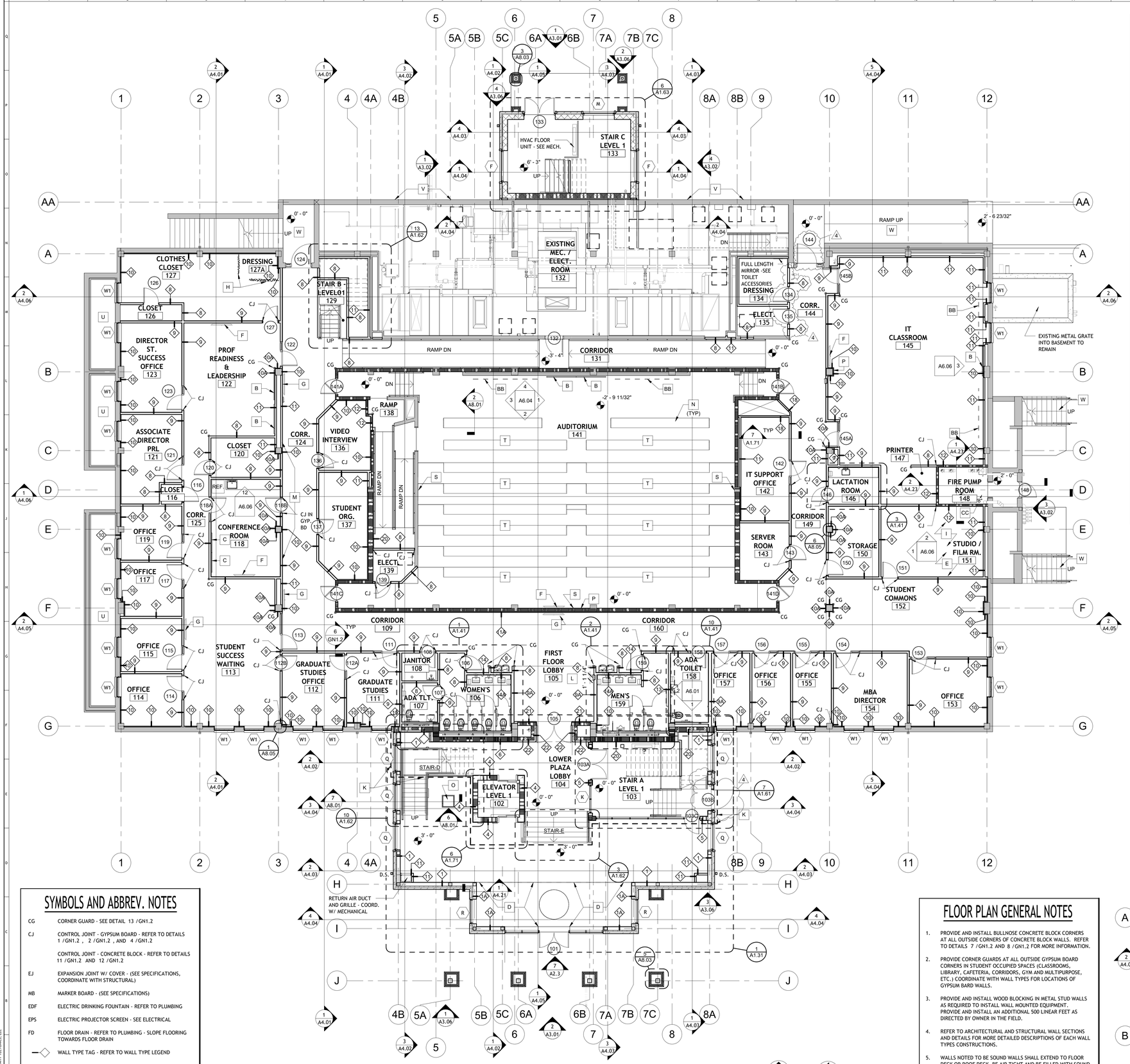
SHEET TITLE
LIFE SAFETY PLAN - 4TH FLOOR

DRAWN CWD

REVIEW KAC

LS2.4

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FLOOR PLAN KEYNOTES

KEYNOTES SHOWN ARE NOT PARTICULAR TO THIS SHEET. REFER TO FLOOR PLAN FOR SCOPE ITEMS.

A. PROVIDE POWER/DATA AND IN-WALL BLOCKING FOR WALL-HUNG OVERSIZED LED SCREEN; EQUIPMENT PROVIDED AND INSTALLED PROVIDED BY OWNER

B. 4' TALL x 6' WIDE WALL HUNG GLASS DRY-ERASE MARKERBOARD - NON-GLARE OPTION. INVISIBLE MOUNT OPTION.

C. 4' TALL X 4' WIDE WALL HUNG GLASS DRY-ERASE MARKERBOARD - NON-GLARE OPTION. INVISIBLE MOUNT OPTION.

D. WALK OFF ENTRANCE MAT PER SPEC WITH LOGO.

E. PROVIDE ADDITIONAL BLOCKING FROM FLOOR TO ACOUSTIC CEILING TILE HEIGHT AS DIRECTED BY OWNER. PROVIDE 250 LINEAR FEET OF BLOCKING TO BE PLACED IN THIS SPACE.

F. PROVIDE POWER / DATA & IN-WALL BLOCKING FOR WALL HUNG TV / MONITOR; EQUIP BY OTHERS.

G. PROVIDE POWER / DATA & IN-WALL BLOCKING FOR DIGITAL SIGNAGE AT 5'-0" AFF; SIGNAGE BY OWNER.

H. PROVIDE CEILING HUNG PRIVACY CURTAINS.

I. SOUND PROOFING REQUIREMENTS FOR WALLS AND CEILINGS.

J. LARGE FORMAT TV - BY OWNER . PROVIDE POWER/DATA & IN-WALL BLOCKING.

K. PROVIDE NEW FOUNDATION DRAIN TILE; CONNECT TO STORM SEWER

L. PROVIDE J-BOX AT CEILING LEVEL WITH POWER/DATA FOR DIGITAL SIGNAGE PROJECTOR.

M. HALLWAY GRAPHICS DISPLAY

N. NEW FIXED CLASSROOM DESKS PROVIDE NEW POWER AND DATA HOOKUPS AT ALL DESKTOPS.

O. PROVIDE POWER / DATA FOR DISPLAY CASE AND DEPARTMENT SIGNAGE PROVIDED BY OWNER.

P. PROVIDE POWER FOR HARDWIRED ANALOG WALL CLOCK ON A SYNCHRONIZED TIME SYSTEM.

Q. REPLACE EXISTING TIERED DESK(S) WITH NEW. PROVIDE POWER AND DATA FOR ALL TABLE TOP SEATING.

R. PROVIDE IN-FILL WALL TO MATCH EXISTING; COORDINATE WORK WITH DEMOLITION PLAN

S. PROVIDE POWER AND DATA FOR VIDEO CONFERENCE CAMERA AND LECTERN RECORDING DEVICES.

T. PROVIDE POWER AND HOOKUP FOR MICROPHONE. (COORDINATE REQUIREMENTS WITH OWNER'S REPRESENTATIVE)

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V. CLEAN, REPOINT, AND REPAIR EXISTING FACE BRICK ON EXTERIOR KNEE WALL FOR MECHANICAL SPACE & STAIR ENCLOSURE. PROVIDE CAVITY WEEP HOLES AT 16" O.C. FOR EXISTING BRICK FACE.

W. PRESSURE WASH WITH MILD DETERGENT EXISTING STAIRS, STAIR LANDINGS, RAMPS AND RAMP LANDINGS. INCLUDE ALL ASSOCIATED SUPPORT WALLS AND ADJACENT RETAINING WALLS. SNAKE EXISTING AREA DRAINS AND/OR CLEANOUTS FOR LANDINGS.

X. PATCH AND REPAIR, CLEAN & REPOINT EXISTING MASONRY WALL. RE-USE EXISTING PRECAST WALL CAP TO CAP TOP OF WALL. PROVIDE NEW STONE CAP TO MATCH EXISTING AS NEEDED TO COMPLETE WORK.

Y. METAL CATWALK W/ GUARDRAIL HUNG FROM EXISTING STRUCTURE ABOVE IN EXISTING ATTIC SPACE. SUBJECT TO ALTERNATE #1.

Z. ELECTRICAL WALL OUTLETS AT 10ft O.C. ALONG THREE WALLS IN MULTIPURPOSE ROOM

AA. PROVIDE NEW DECORATIVE ALUMINUM GUARDRAIL AT END OF TIERED SEATING.

BB. PROVIDE CEILING HUNG DROP DOWN PROJECTOR SCREEN AND POWER/DATA FOR CEILING HUNG PROJECTOR; PROJECTOR PROVIDED AND INSTALLED BY OWNER.

CC. NEW CONCRETE FLOOR AT LEVEL OF EXISTING EXTERIOR SIDEWALK. FIELD VERIFY F.F.E. RELATIVE TO REST OF SURROUNDING FLOOR. COORDINATE WITH M,P,& E FOR PROTECTION EQUIPMENT AND HOUSEKEEPING PADS.

DD. PROVIDE FLOOR J-BOX WITH POWER AND DATA; CENTER IN ROOM U.N.O.

EE. NEW SUBFLOOR AT LOCATION OF REMOVED RISER. FIELD VERIFY THICKNESS OF ADJACENT RISER SUBFLOOR TO REMAIN. THE NEW FLOOR FINISH TO RUN CONTINUOUSLY FROM EXISTING RISER TO NEW SUBFLOOR.

FF. TENNESSEE TECH COLLEGE OF BUSINESS LOGO IN THE WALK OFF MAT - TWO COLORS - SEE DETAIL 2 /A1.21

GG. NEW 3/4" SUBFLOOR ON RISERS. COORDINATE WITH FIELD CONDITIONS AND EXISTING SUBFLOOR STRUCTURE TO REMAIN.

HH. EXISTING WALLS TO REMAIN. COORDINATE WITH PORTION OF EXISTING CONCRETE MEZZANINE FLOOR ABOVE TO REMAIN.

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.

SYMBOLS AND ABBREV. NOTES

CG	CORNER GUARD - SEE DETAIL 13 /GN1.2
CJ	CONTROL JOINT - GYPSUM BOARD - REFER TO DETAILS 1 /GN1.2 , 2 /GN1.2 , AND 4 /GN1.2
	CONTROL JOINT - CONCRETE BLOCK - REFER TO DETAILS 11 /GN1.2 AND 12 /GN1.2
EJ	EXPANSION JOINT W/ COVER - (SEE SPECIFICATIONS, COORDINATE WITH STRUCTURAL)
MB	MARKER BOARD - (SEE SPECIFICATIONS)
EDF	ELECTRIC DRINKING FOUNTAIN - REFER TO PLUMBING
EPS	ELECTRIC PROJECTOR SCREEN - SEE ELECTRICAL
FD	FLOOR DRAIN - REFER TO PLUMBING - SLOPE FLOORING TOWARDS FLOOR DRAIN
	WALL TYPE TAG - REFER TO WALL TYPE LEGEND
	EXISTING WALL TO REMAIN - FIELD VERIFY THICKNESS, LOCATION, AND CONDITIONS

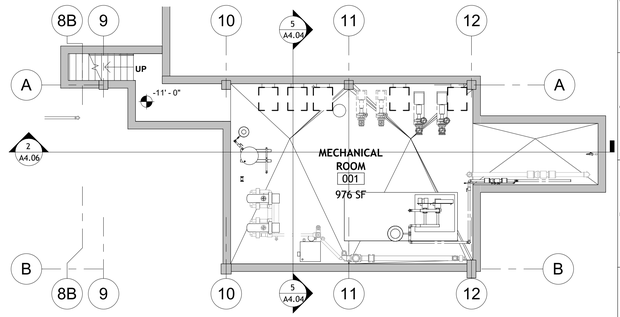
FLOOR PLAN GENERAL NOTES

1. PROVIDE AND INSTALL BULLNOSE CONCRETE BLOCK CORNERS AT ALL OUTSIDE CORNERS OF CONCRETE BLOCK WALLS. REFER TO DETAILS 7 /GN1.2 AND 8 /GN1.2 FOR MORE INFORMATION.
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE GYPSUM BOARD CORNERS IN STUDENT OCCUPIED SPACES (CLASSROOMS, LIBRARY, CAFETERIA, CORRIDORS, GYM AND MULTIPURPOSE, ETC.) COORDINATE WITH WALL TYPES FOR LOCATIONS OF GYPSUM BARD WALLS.
3. PROVIDE AND INSTALL WOOD BLOCKING IN METAL STUD WALLS AS REQUIRED TO INSTALL WALL MOUNTED EQUIPMENT. PROVIDE AND INSTALL AN ADDITIONAL 500 LINEAR FEET AS DIRECTED BY OWNER IN THE FIELD.
4. REFER TO ARCHITECTURAL AND STRUCTURAL WALL SECTIONS AND DETAILS FOR MORE DETAILED DESCRIPTIONS OF EACH WALL TYPES CONSTRUCTIONS.
5. WALLS NOTED TO BE SOUND WALLS SHALL EXTEND TO FLOOR DECK OR ROOF DECK, BE AIR TIGHT AND BE FILLED WITH SOUND BATT INSULATION.

FIRST FLOOR RENOVATION - NOTATION

1/8" = 1'-0"

PLAN NORTH TRUE NORTH



FLOOR PLAN - CHILLER ROOM

1/8" = 1'-0"

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLIN — REGISTERED ARCHITECT — No. 328[illegible] — STATE OF TENNESSEE

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE FIRST FLOOR - NOTATIONS

DRAWN CWD

REVIEW KAC

A1.1N

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2ND FLR RENOVATION - NOTATIONS

1/8" = 1'-0"

0 1'-2" 4' 8'

PLAN NORTH TRUE NORTH

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — AGRICULTURE — 5/16/25 — STATE OF TENNESSEE

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JOB NO. 22025

ISSUE DATE 3-28-25

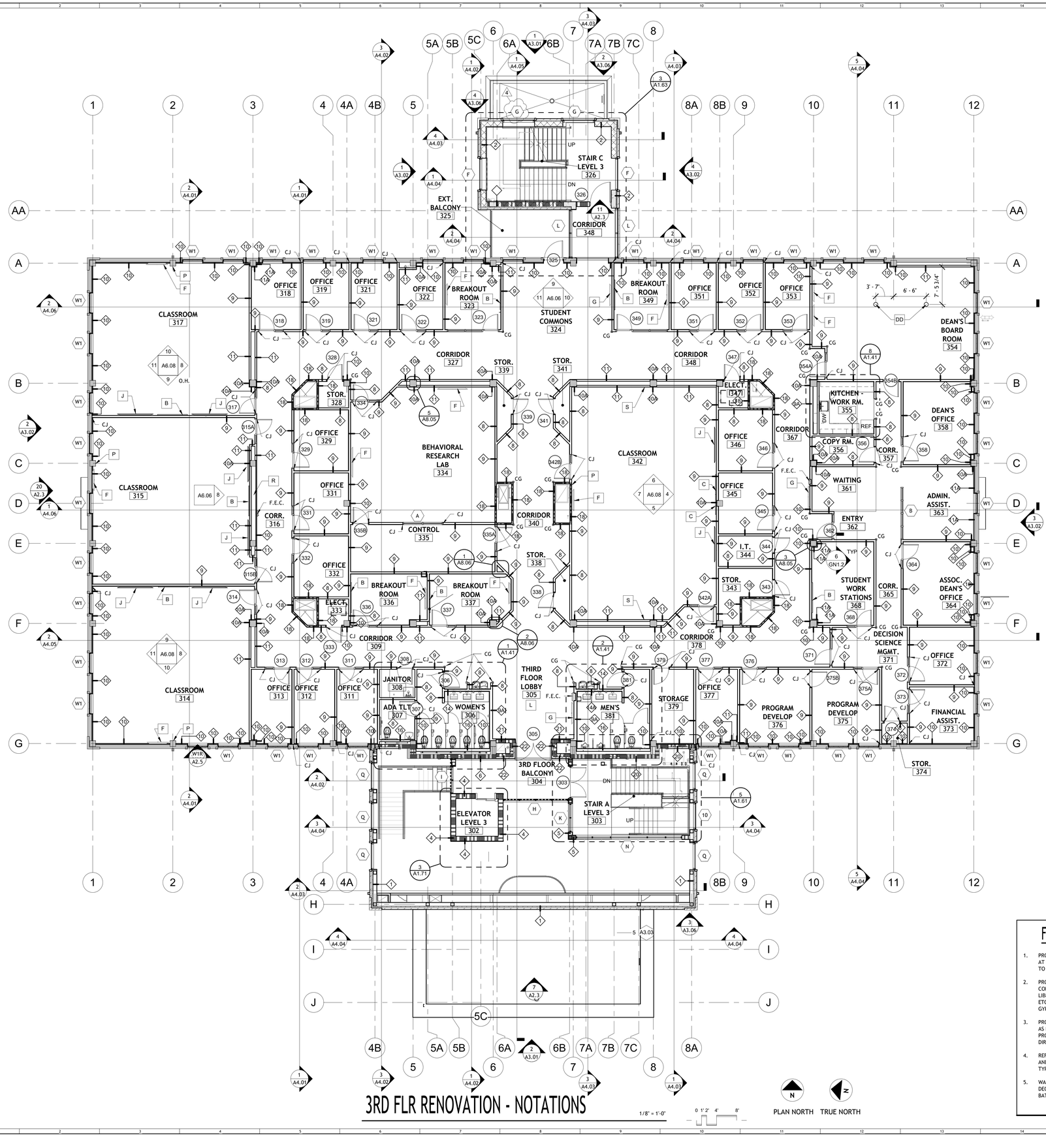
SHEET TITLE SECOND FLOOR - NOTATIONS

DRAWN CWD

REVIEW KAC

A1.2N

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FLOOR PLAN KEYNOTES

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A. PROVIDE POWER/DATA AND IN-WALL BLOCKING FOR WALL-HUNG OVERSIZED LED SCREEN; EQUIPMENT PROVIDED AND INSTALLED PROVIDED BY OWNER

B. 4' TALL x 6' WIDE WALL HUNG GLASS DRY-ERASE MARKERBOARD - NON-GLARE OPTION. INVISIBLE MOUNT OPTION.

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F. PROVIDE POWER / DATA & IN-WALL BLOCKING FOR WALL HUNG TV / MONITOR; EQUIP BY OTHERS.

G. PROVIDE POWER / DATA & IN-WALL BLOCKING FOR DIGITAL SIGNAGE AT 5'-0" AFF; SIGNAGE BY OWNER.

H. PROVIDE CEILING HUNG PRIVACY CURTAINS.

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J. LARGE FORMAT TV - BY OWNER . PROVIDE POWER/DATA & IN-WALL BLOCKING.

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SYMBOLS AND ABBREV. NOTES

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CJ	CONTROL JOINT - GYPSUM BOARD - REFER TO DETAILS 1 /GN1.2 , 2 /GN1.2 , AND 4 /GN1.2
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SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE THIRD FLOOR - NOTATIONS

DRAWN CWD

REVIEW KAC

A1.3N

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FOURTH FLOOR RENOVATION - DIMENSIONS

1/8" = 1'-0"

PLAN NORTH TRUE NORTH

DIMENSION PLAN NOTES

GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS. THE DIMENSIONS ARE BASED ON FURRING AND STUDS BUILT ON EXISTING WALLS AND COLUMNS. FIELD VERIFY LOCATIONS OF EXISTING WALLS AND COLUMNS TO REMAIN. COORDINATE WITH WALL TYPES FOR WALL AND FURRING SIZES. NOTIFY DESIGNER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES BASED ON FIELD VERIFIED EXISTING ELEMENTS.
- ROUGH OPENINGS FOR STOREFRONT DOORS WITH SIDELITES ARE SHOWN. COORDINATE WITH DOOR FRAME, DOOR DETAILS, AND MANUFACTURER FOR REQUIRED SHIM SIZES.
- FIELD VERIFY DIMENSIONS AND SIZES OF EXISTING FURNITURE TO RECEIVE NEW COUNTERTOPS. NEW COUNTERTOPS TO BE THE SAME SIZE AS THE EXISTING TO BE REPLACED.
- COORDINATE WITH ENLARGED PLANS FOR DIMENSIONS FOR TOILET ROOMS AND OTHER SMALL SPACES.
- COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DIMENSIONS ON THEIR PORTION OF THE WORK.

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SEAL
KIM ALLEN CHAMBERLIN — REGISTERED ARCHITECT — ARCHITECTURE — 5716 — STATE OF TENNESSEE
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SHEET TITLE FOURTH FLOOR - DIMENSIONS

DRAWN CWD

REVIEW KAC

A1.4D

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SEAL
KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — TENNESSEE — 328 — 5/16/25

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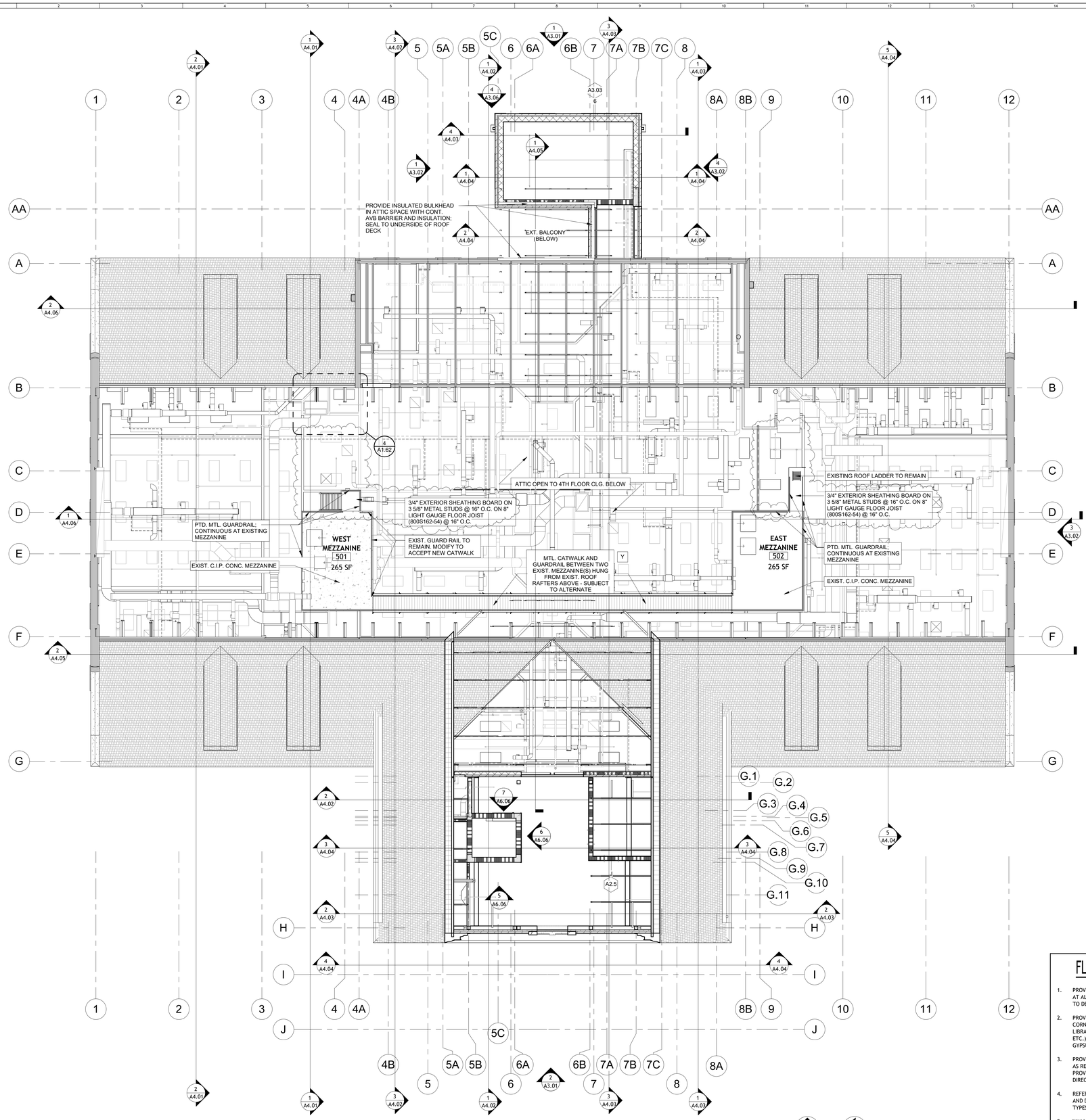
SHEET TITLE FOURTH FLOOR - NOTATIONS

DRAWN CWD

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05 - Mezzanine / Attic Plan

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U. PRESSURE WASH WITH A MILD DETERGENT EXISTING WINDOW WELLS AND SNAKE ALL EXISTING AREA DRAINS AND/OR CLEANOUTS FOR WELLS. INCLUDE WINDOW WELL TOP OF WALL.

V. CLEAN, REPOINT, AND REPAIR EXISTING FACE BRICK ON EXTERIOR KNEE WALL FOR MECHANICAL SPACE & STAIR ENCLOSURE. PROVIDE CAVITY WEEP HOLES AT 16" O.C. FOR EXISTING BRICK FACE.

W. PRESSURE WASH WITH MILD DETERGENT EXISTING STAIRS, STAIR LANDINGS, RAMPS AND RAMP LANDINGS. INCLUDE ALL ASSOCIATED SUPPORT WALLS AND ADJACENT RETAINING WALLS. SNAKE EXISTING AREA DRAINS AND/OR CLEANOUTS FOR LANDINGS.

X. PATCH AND REPAIR, CLEAN & REPOINT EXISTING MASONRY WALL. RE-USE EXISTING PRECAST WALL CAP TO CAP TOP OF WALL. PROVIDE NEW STONE CAP TO MATCH EXISTING AS NEEDED TO COMPLETE WORK.

Y. METAL CATWALK W/ GUARDRAIL HUNG FROM EXISTING STRUCTURE ABOVE IN EXISTING ATTIC SPACE. SUBJECT TO ALTERNATE #1.

Z. ELECTRICAL WALL OUTLETS AT 10ft O.C. ALONG THREE WALLS IN MULTIPURPOSE ROOM

AA. PROVIDE NEW DECORATIVE ALUMINUM GUARDRAIL AT END OF TIERED SEATING.

BB. PROVIDE CEILING HUNG DROP DOWN PROJECTOR SCREEN AND POWER/DATA FOR CEILING HUNG PROJECTOR; PROJECTOR PROVIDED AND INSTALLED BY OWNER.

CC. NEW CONCRETE FLOOR AT LEVEL OF EXISTING EXTERIOR SIDEWALK. FIELD VERIFY F.F.E. RELATIVE TO REST OF SURROUNDING FLOOR. COORDINATE WITH M,P,& E FOR PROTECTION EQUIPMENT AND HOUSEKEEPING PADS.

DD. PROVIDE FLOOR J-BOX WITH POWER AND DATA; CENTER IN ROOM U.N.O.

EE. NEW SUBFLOOR AT LOCATION OF REMOVED RISER. FIELD VERIFY THICKNESS OF ADJACENT RISER SUBFLOOR TO REMAIN. THE NEW FLOOR FINISH TO RUN CONTINUOUSLY FROM EXISTING RISER TO NEW SUBFLOOR.

FF. TENNESSEE TECH COLLEGE OF BUSINESS LOGO IN THE WALK OFF MAT - TWO COLORS - SEE DETAIL 2 /A1.21

GG. NEW 3/4" SUBFLOOR ON RISERS. COORDINATE WITH FIELD CONDITIONS AND EXISTING SUBFLOOR STRUCTURE TO REMAIN.

HH. EXISTING WALLS TO REMAIN. COORDINATE WITH PORTION OF EXISTING CONCRETE MEZZANINE FLOOR ABOVE TO REMAIN.

SYMBOLS AND ABBREV. NOTES

CG	CORNER GUARD - SEE DETAIL 13 /GN1.2
CJ	CONTROL JOINT - GYPSUM BOARD - REFER TO DETAILS 1 /GN1.2 , 2 /GN1.2 , AND 4 /GN1.2
	CONTROL JOINT - CONCRETE BLOCK - REFER TO DETAILS 11 /GN1.2 AND 12 /GN1.2
EJ	EXPANSION JOINT W/ COVER - (SEE SPECIFICATIONS, COORDINATE WITH STRUCTURAL)
MB	MARKER BOARD - (SEE SPECIFICATIONS)
EDF	ELECTRIC DRINKING FOUNTAIN - REFER TO PLUMBING
EPS	ELECTRIC PROJECTOR SCREEN - SEE ELECTRICAL
FD	FLOOR DRAIN - REFER TO PLUMBING - SLOPE FLOORING TOWARDS FLOOR DRAIN
	WALL TYPE TAG - REFER TO WALL TYPE LEGEND
	EXISTING WALL TO REMAIN - FIELD VERIFY THICKNESS, LOCATION, AND CONDITIONS

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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FLOOR PLAN GENERAL NOTES

1. PROVIDE AND INSTALL BULLNOSE CONCRETE BLOCK CORNERS AT ALL OUTSIDE CORNERS OF CONCRETE BLOCK WALLS. REFER TO DETAILS 7 /GN1.2 AND 8 /GN1.2 FOR MORE INFORMATION.
2. PROVIDE CORNER GUARDS AT ALL OUTSIDE GYPSUM BOARD CORNERS IN STUDENT OCCUPIED SPACES (CLASSROOMS, LIBRARY, CAFETERIA, CORRIDORS, GYM AND MULTIPURPOSE, ETC.) COORDINATE WITH WALL TYPES FOR LOCATIONS OF GYPSUM BARD WALLS.
3. PROVIDE AND INSTALL WOOD BLOCKING IN METAL STUD WALLS AS REQUIRED TO INSTALL WALL MOUNTED EQUIPMENT. PROVIDE AND INSTALL AN ADDITIONAL 500 LINEAR FEET AS DIRECTED BY OWNER IN THE FIELD.
4. REFER TO ARCHITECTURAL AND STRUCTURAL WALL SECTIONS AND DETAILS FOR MORE DETAILED DESCRIPTIONS OF EACH WALL TYPES CONSTRUCTIONS.
5. WALLS NOTED TO BE SOUND WALLS SHALL EXTEND TO FLOOR DECK OR ROOF DECK, BE AIR TIGHT AND BE FILLED WITH SOUND BATT INSULATION.

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERS
REGISTERED ARCHITECT
No. 19514
STATE OF TENNESSEE
5/16/25
3/28/25

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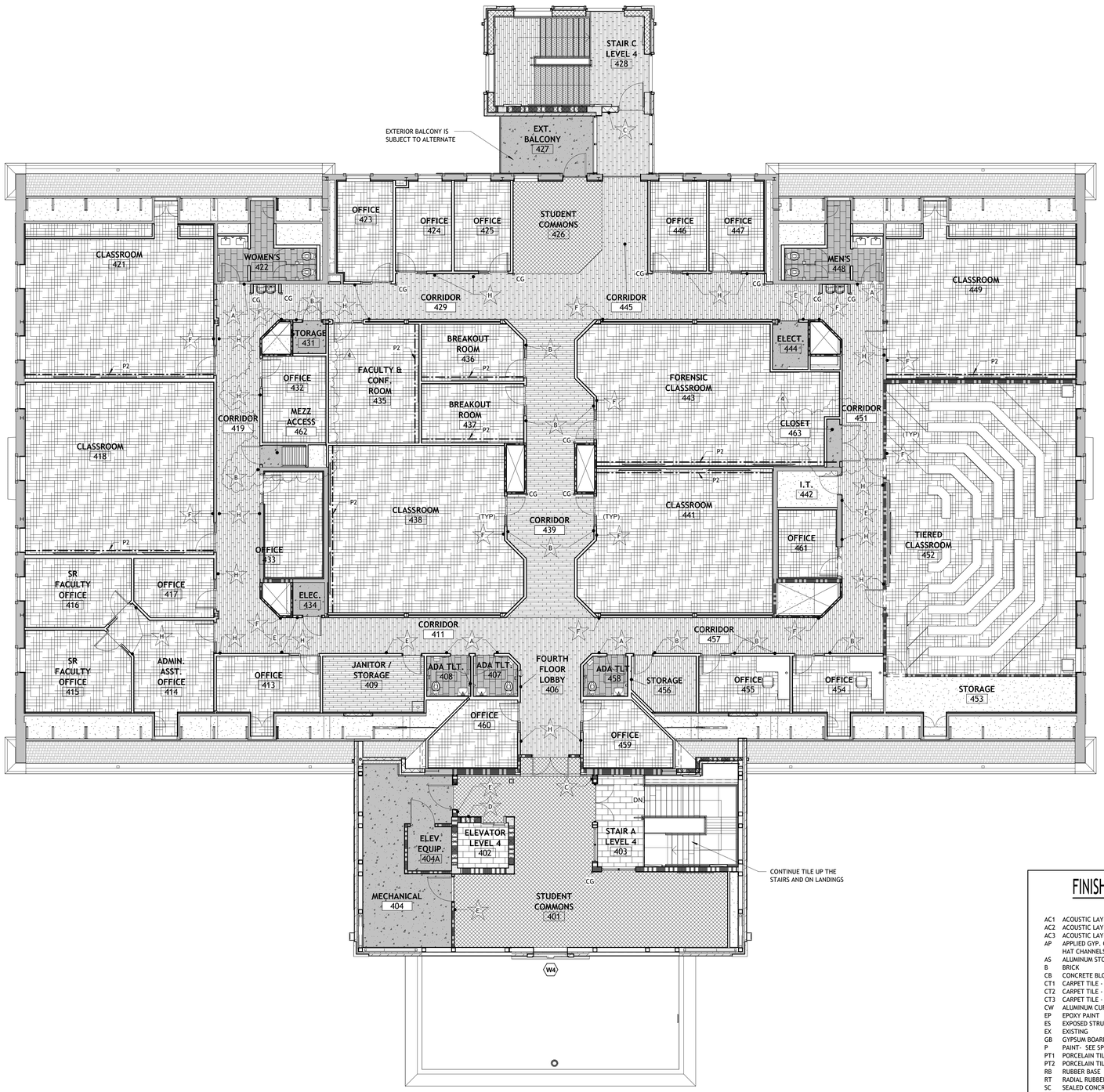
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SHEET TITLE ATTIC PLAN

DRAWN CWD

REVIEW KAC

A1.5



4TH FLOOR RENOVATION - FINISH PLAN

1/8" = 1'-0"

0 1' 2' 4' 8'

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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FINISH LEGEND

- LVT 1 - LUXURY VINYL TILE FIELD
- LVT 2 - LUXURY VINYL TILE ACCENT
- CT1 - CARPET TILE TYPE 1
- CT2 - CARPET TILE TYPE 2
- CT3 - CARPET TILE TYPE 3
- WCT - WALK-OFF CARPET TILE
- PT - PORCELAIN TILE FIELD *SEE FLOOR FINISH PLAN
- PT2 -PORCELAIN TILE ACCENT *SEE FLOOR FINISH PLAN
- SC - SEALED CONCRETE
- C - CONCRETE
- RR - RADIAL RUBBER
- P2 - ACCENT COLOR WALL
- SIGN TYPE SYMBOL - REFER TO GN1.1

NOTE: MORE THAN ONE COLOR MAY BE USED FOR EACH COLOR DESIGNATION

FINISH SCHEDULE LEGEND

AC1	ACOUSTIC LAY-IN CEILING TYPE 1
AC2	ACOUSTIC LAY-IN CEILING TYPE 2
AC3	ACOUSTIC LAY-IN CEILING TYPE 3
AP	APPLIED GYP. OR GYP. BD. ON FURRING STRIPS AND/OR HAT CHANNELS
AS	ALUMINUM STOREFRONT
B	BRICK
CB	CONCRETE BLOCK
CT1	CARPET TILE - TYPE 1
CT2	CARPET TILE - TYPE 2
CT3	CARPET TILE - TYPE 3
CW	ALUMINUM CURTAIN WALL
EP	EPOXY PAINT
ES	EXPOSED STRUCTURE
EX	EXISTING
GB	GYPSUM BOARD
P	PAINT- SEE SPECIFICATIONS SECTION 09 91 00
PT1	PORCELAIN TILE - TYPE 1
PT2	PORCELAIN TILE - TYPE 2
RB	RUBBER BASE
RT	RADIAL RUBBER TILE
SC	SEALED CONCRETE
LVT	LUXURY VINYL TILE
WT	PORCELAIN WALL TILES
WCT	WALK-OFF CARPET TILE

NOTES:
- REFER TO SPECIFICATIONS FOR PAINT TYPES AT ALL STEEL, HOLLOW METAL, ETC.
- WALL LOCATIONS ARE BASED ON PLAN NORTH

FINISH SCHEDULE GENERAL NOTES

1. WALL LOCATIONS ARE BASED ON PLAN NORTH.
2. REFER TO INTERIOR ELEVATIONS FOR ACCENT PAINT LOCATIONS
3. PAINT ALL CONTROL JOINTS IN WALLS (CMU AND GYPSUM BOARD WALLS) TO MATCH ADJACENT WALL COLOR.
4. WALLS ADJACENT TO CEILING CLOUDS SHALL BE PAINTED TO ROOF DECK.
5. PAINT ALL GYPSUM BOARD FURR DOWNS AND SOFFITS. REFER TO INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR LOCATIONS.
6. PAINT ALL STRUCTURE, DUCTWORK, CONDUIT AND PIPING IN SPACES WITH CLOUD CEILING EXPOSED TO VIEW.
7. PROVIDE SOLID SURFACE SILLS FOR WINDOW OPENING (TYPICAL).
8. PROVIDE 1X STAIN GRADE WOOD TRIM SILLS FOR WINDOW OPENINGS (RADIUS EDGE TYPICAL).
9. PROVIDE WALL CORNER GUARDS AT ALL OUTSIDE GYPSUM BOARD WALL CORNERS AND CASED OPENINGS (TYPICAL) - COORDINATE WITH FLOOR PLANS.
10. PROVIDE MOISTURE RESISTANT TYPE GYPSUM BOARD IN WET AREAS (RESTROOMS AND ABOVE COUNTERTOPS WITH SINKS).
11. INSTALL PAINTED ZINC CONTROL JOINTS IN GYPSUM BOARD WALLS AS SHOWN ON INTERIOR ELEVATIONS.
12. PROVIDE CONTROL JOINTS IN GYPSUM BOARD AT A MIN. OF 30'-0" O.C. JOINTS SHALL BE AT EDGE OF DOOR OR WINDOW FRAME WHERE POSSIBLE TO PREVENT MOVEMENT / SETTLEMENT CRACKING. COORDINATE WITH FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS.
13. PROVIDE ABUSE RESISTANT GYPSUM BOARD FROM FLOOR TO 8 FEET HEIGHT IN ALL STUDENT OCCUPIED SPACES.

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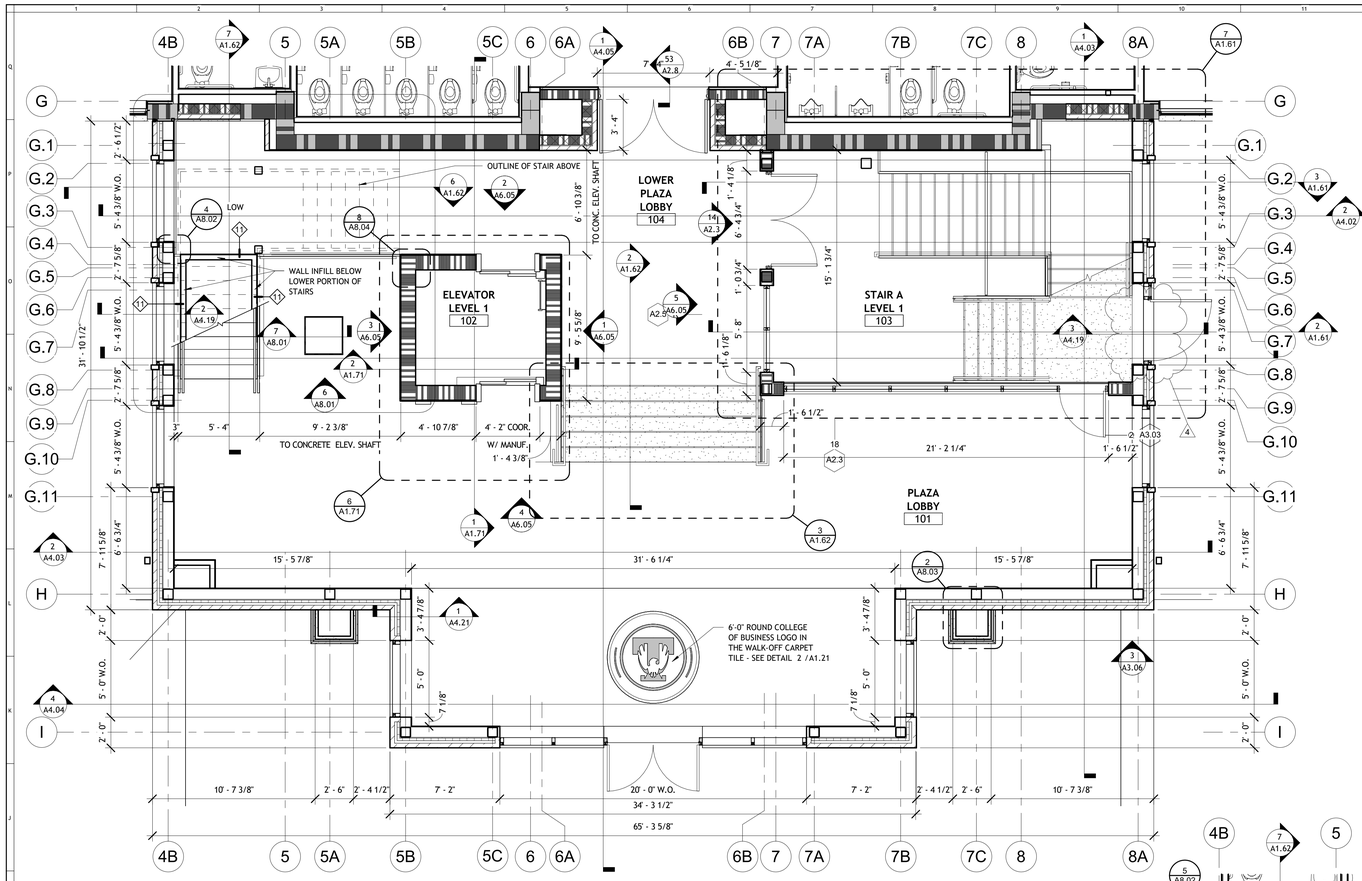
SHEET TITLE
FINISH PLAN - 4TH FLOOR

DRAWN CWD

REVIEW KAC

A1.24

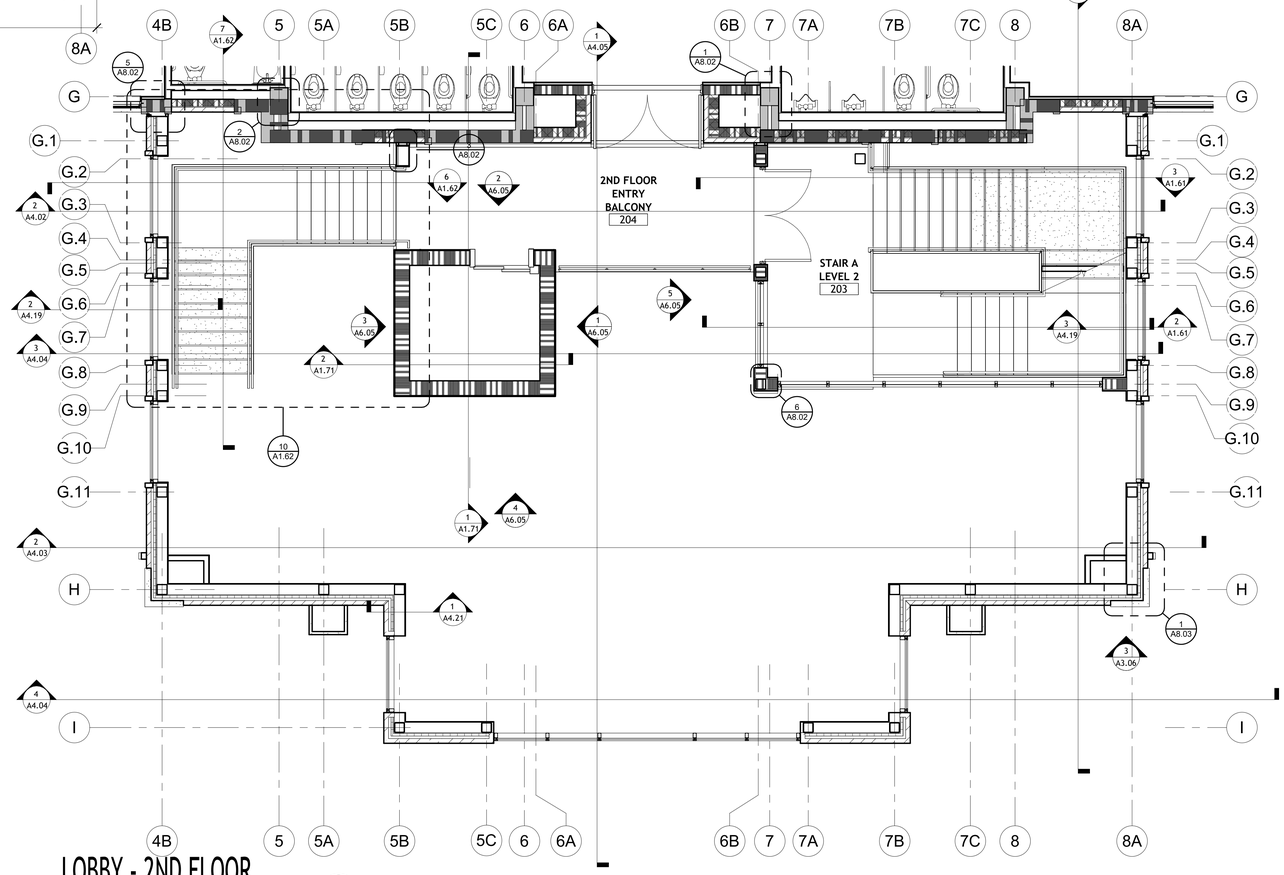
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LOBBY - 1ST FLOOR

1/4" = 1'-0"

1



LOBBY - 2ND FLOOR

1/4" = 1'-0"

2

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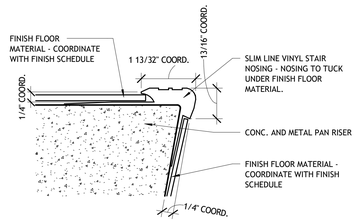
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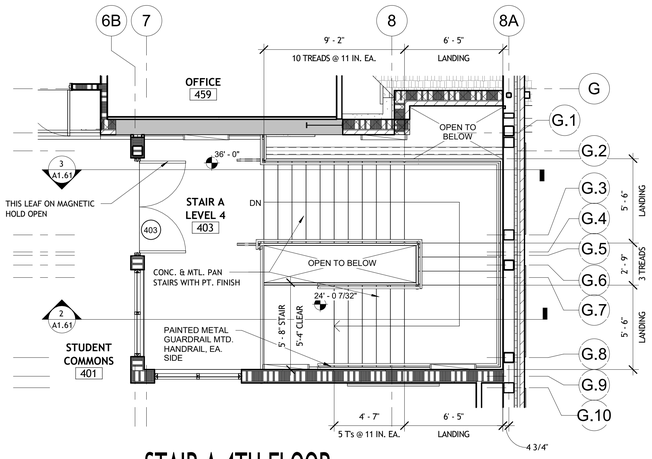
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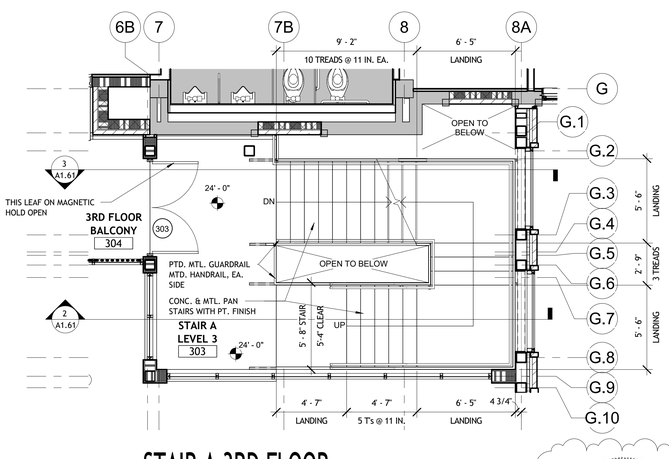
STAIR NOSING DETAIL 1

3" = 1'-0"



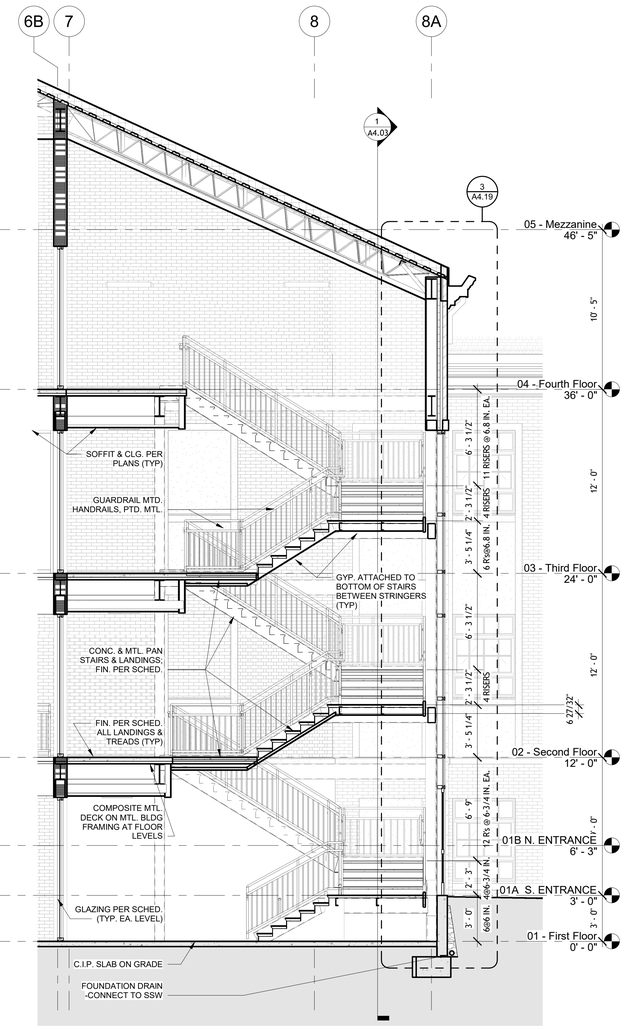
STAIR A 4TH FLOOR 4

1/4" = 1'-0"



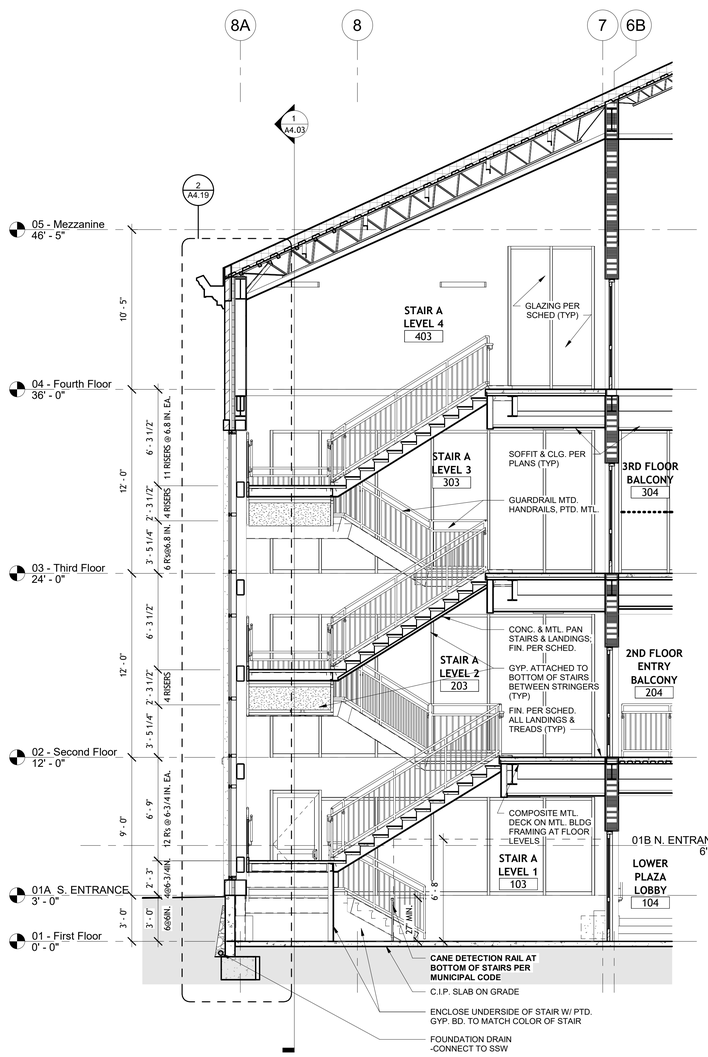
STAIR A 3RD FLOOR 5

1/4" = 1'-0"



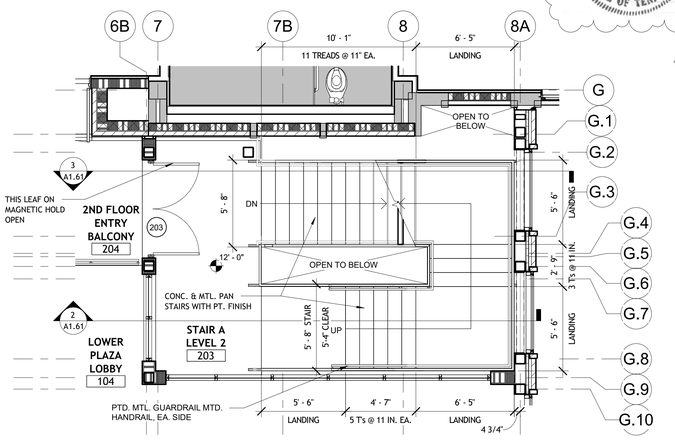
STAIR A SECTION 2

1/4" = 1'-0"



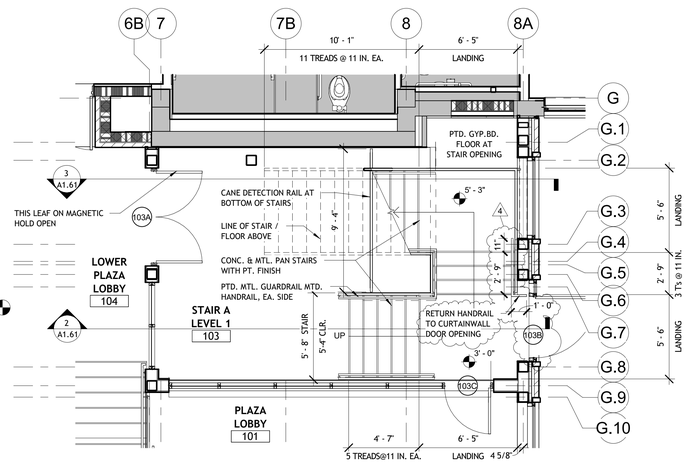
STAIR A SECTION 3

1/4" = 1'-0"



STAIR A 2ND FLOOR 6

1/4" = 1'-0"



STAIR A 1ST FLOOR 7

1/4" = 1'-0"

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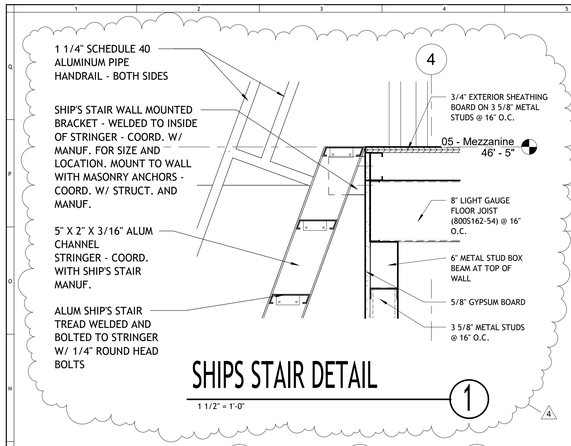
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STAIR PLANS AND SECTIONS - STAIR A

DRAWN
CWD

REVIEW
KAC

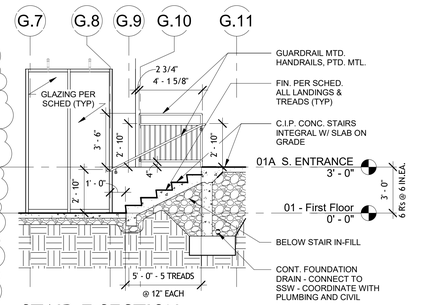
A1.61

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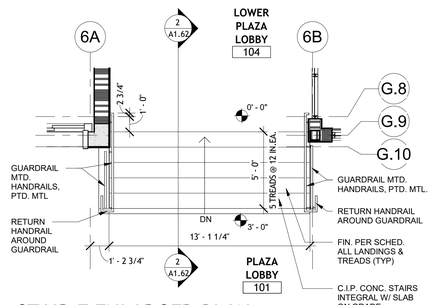
SHIPS STAIR DETAIL

1 1/2" = 1'-0" — 1



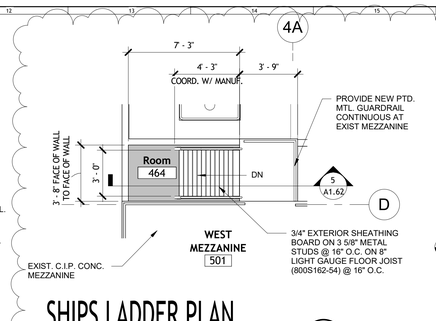
STAIR E SECTION

1/4" = 1'-0" — 2



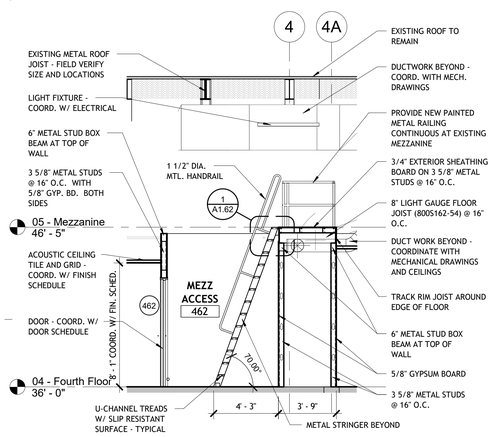
STAIR E ENLARGED PLAN

1/4" = 1'-0" — 3



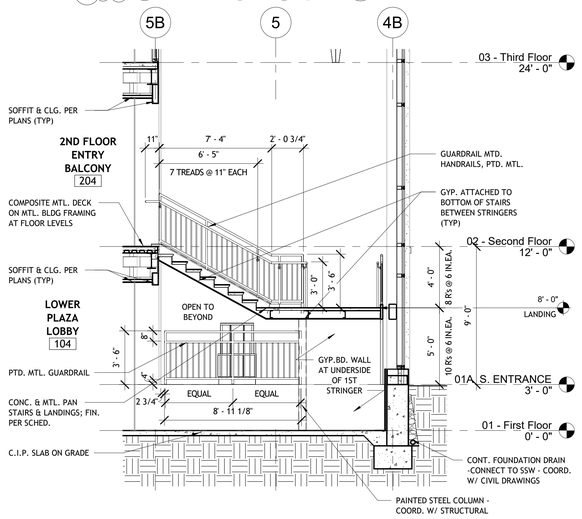
SHIPS LADDER PLAN

1/4" = 1'-0" — 4



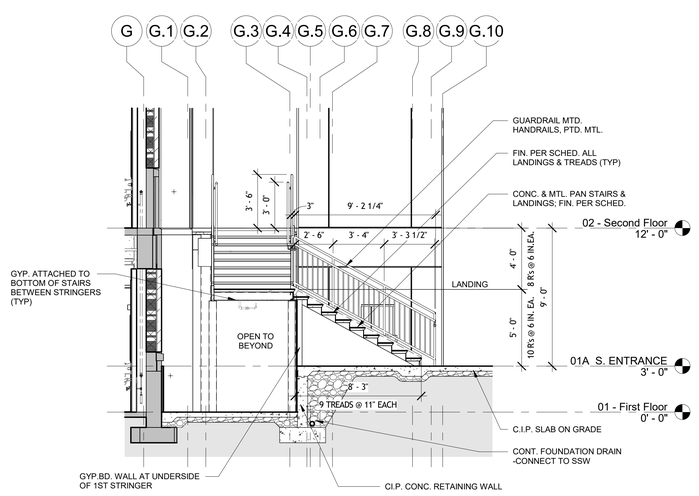
SHIPS STAIR SECTION

1/4" = 1'-0" — 5



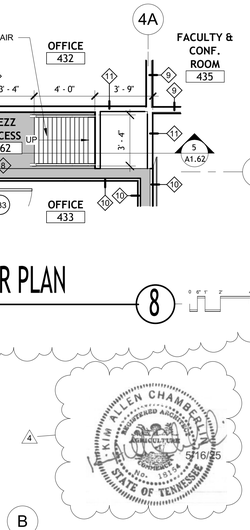
STAIR D SECTION

1/4" = 1'-0" — 6



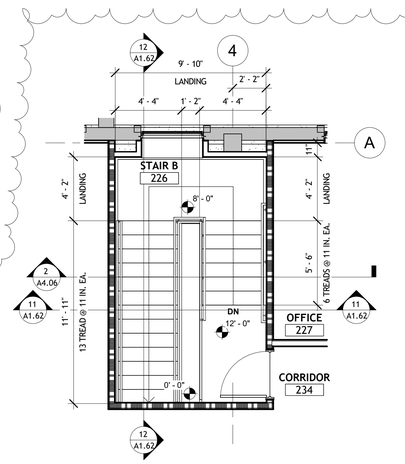
STAIR D SECTION

1/4" = 1'-0" — 7



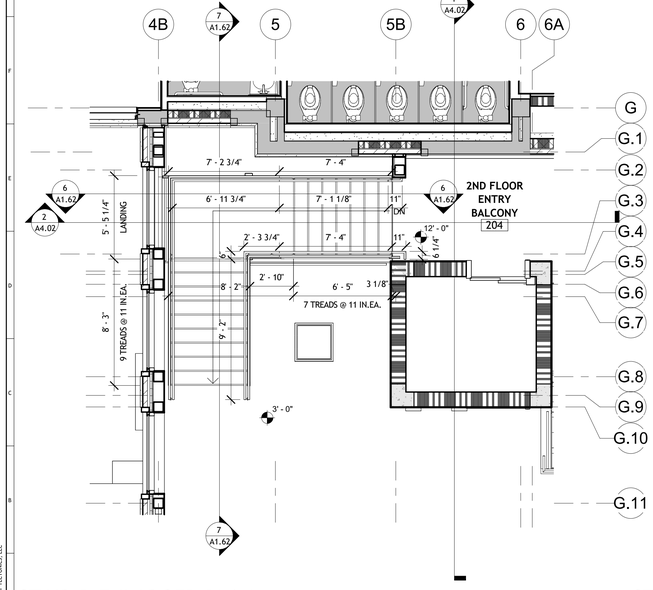
SHIPS LADDER PLAN

1/4" = 1'-0" — 8



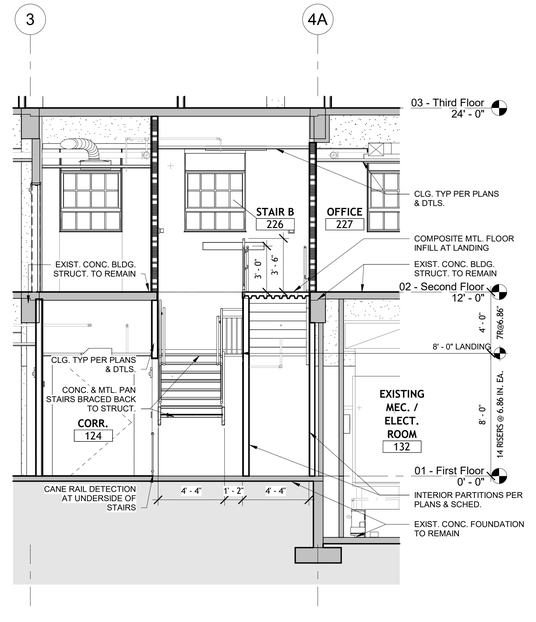
STAIR B ENLARGED PLAN

1/4" = 1'-0" — 9



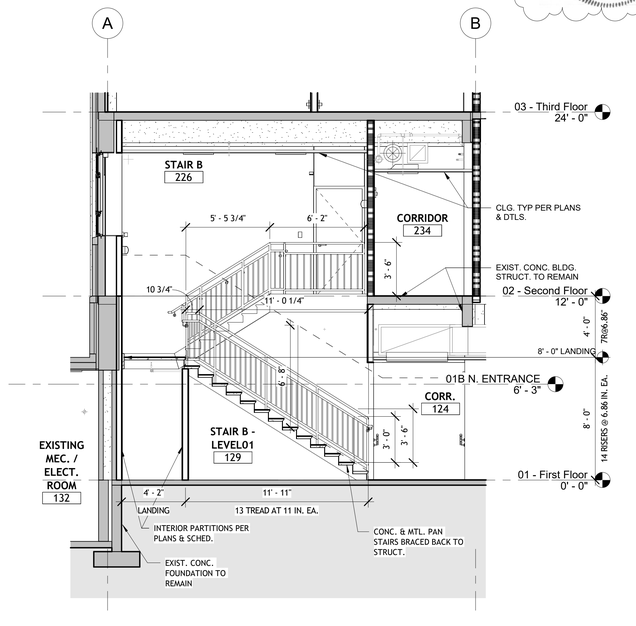
STAIR D ENLARGED PLAN

1/4" = 1'-0" — 10



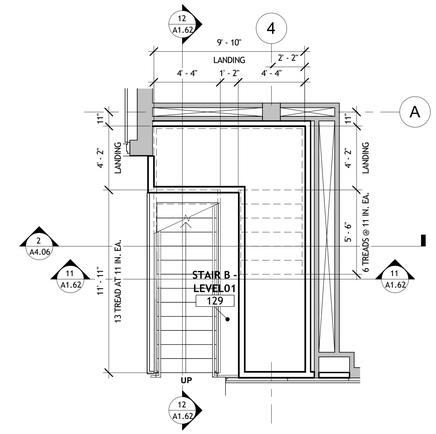
STAIR B SECTION

1/4" = 1'-0" — 11



STAIR B SECTION

1/4" = 1'-0" — 12



STAIR B ENLARGED PLAN

1/4" = 1'-0" — 13

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLIN
REGISTERED ARCHITECT
ARCHITECTURE
No. 13814
STATE OF TENNESSEE
5/16/25

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE
STAIR PLANS AND SECTIONS - STAIR B

DRAWN CWD

REVIEW KAC

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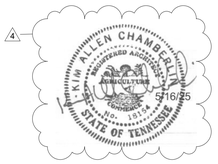
03 - THIRD FLOOR FINISH SCHEDULE

SPACE	DESCRIPTION	WAINSCOT	WSCT. HT.	FLOOR	BASE	MATERIALS					Ceiling Height	FINISHES					REMARKS
						WALLS				CLG.		WALLS				CLG.	
						N	E	S	W			N	E	S	W		
302	ELEVATOR LEVEL 3																
303	STAIR A LEVEL 3			PT	PT	EX/B	GB/CW	GB/AS	GB/AS	AC3	9'-6"	P	P	P	P	-	PAINTED HANDRAILS, PORCELAIN TILE ON TREADS AND LANDINGS - PAINT EXISTING BRICK
304	3RD FLOOR BALCONY			PT	PT	EX/B	GB	AS/PT	AS	AC3	9'-4"	P	-	-	-	-	
305	THIRD FLOOR LOBBY			LVT	RB	GB	GB	GB	GB	AC1	8'-1"	P	P	P	P	-	
306	WOMEN'S			PT2	PT2	GB/WT	GB	WT	GB	AC2	8'-1"	EP	EP	-	EP	-	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS
307	ADA TLT			PT2	PT2	GB	GB	WT	GB	AC2	8'-1"	EP	EP	-	EP	-	* WALL TILE GOES UP TO 5'-0". EPOXY PAINT ABOVE WALL TILE
308	JANITOR			SC	RB	GB	GB	GB	GB	ES	-	EP	EP	EP	EP	-	
309	CORRIDOR			LVT	RB	GB	-	GB	-	AC1	8'-1"	P	-	P	-	-	
311	OFFICE			CT3	RB	GB	GB	AP	GB	AC1	8'-6"	P	P	P	P	-	
312	OFFICE			CT3	RB	GB	GB	AP	GB	AC1	8'-6"	P	P	P	P	-	
313	OFFICE			CT3	RB	GB	GB	AP	GB	AC1	8'-6"	P	P	P	P	-	
314	CLASSROOM			CT3	RB	GB	GB	AP	AP	AC1	8'-6"	P	P	P	P	-	
315	CLASSROOM			CT3	RB	GB	GB	GB	AP	AC1	8'-6"	P	P	P	P	-	
316	CORR.			LVT	RB	GB	GB	GB	GB	AC1	8'-1"	P	P	P	P	-	
317	CLASSROOM			CT3	RB	AP	GB	GB	AP	AC1	8'-6"	P	P	P	P	-	
318	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
319	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
321	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
322	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
323	BREAKOUT ROOM			CT2	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
324	STUDENT COMMONS			CT1	RB	EX	-	-	GB	AC1	8'-6"	P	-	-	P	-	
325	EXT. BALCONY			SC	-	B	CW	EX	-	ES	-	-	-	-	-	-	EXTERIOR BALCONY IS SUBJECT TO ALTERNATE
326	STAIR C LEVEL 3			RT/LVT	RB	CB	CB	CB	CB	AC1	9'-2"	P	P	P	P	-	PAINTED HANDRAILS, RADIAL RUBBER TILE ON TREADS
327	CORRIDOR			LVT	RB	GB/AS	-	GB	-	AC1	8'-1"	P	-	P	-	-	
328	STOR.			LVT	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
329	OFFICE			CT3	RB	GB	GB	GB	GB	AC1	8'-3"	P	P	P	P	-	
331	OFFICE			CT3	RB	GB	GB	GB	GB	AC1	8'-3"	P	P	P	P	-	
332	OFFICE			CT3	RB	GB	GB	GB	GB	AC1	8'-3"	P	P	P	P	-	
333	ELECT.			SC	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
334	BEHAVIORAL RESEARCH LAB			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
335	CONTROL			CT3	RB	GB	GB	GB	GB	AC1	8'-2"	P	P	P	P	-	
336	BREAKOUT ROOM			CT2	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
337	BREAKOUT ROOM			CT2	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
338	STOR.			LVT	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
339	STOR.			LVT	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
340	CORRIDOR			LVT	RB	-	GB	-	GB	AC1	8'-1"	-	P	-	P	-	
341	STOR.			LVT	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
342	CLASSROOM			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
343	STOR.			LVT	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
344	I.T.			SC	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
345	OFFICE			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
346	OFFICE			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
347	ELECT.			SC	RB	GB	GB	GB	GB	ES	-	P	P	P	P	-	
348	CORRIDOR			LVT	RB	GB	-	GB	-	AC1	8'-1"	P	-	P	-	-	
349	BREAKOUT ROOM			CT2	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
351	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
352	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
353	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
354	DEAN'S BOARD ROOM			CT1	RB	GB/AP	AP	GB	GB	AC3	8'-6"	P	P	P	P	-	
355	KITCHEN - WORK RM.			LVT	RB	GB	GB	GB	GB	AC3	8'-6"	P	P	P	P	-	
356	COPY RM.			CT1	RB	GB	GB	GB	GB	AC3	8'-0"	P	P	P	P	-	
357	CORR.			CT1	RB	GB	GB	-	GB	AC3	8'-1"	P	P	-	P	-	
358	DEAN'S OFFICE			CT1	RB	GB	AP	GB	GB	AC3	8'-6"	P	P	P	P	-	
361	WAITING			CT1	RB	GB	-	GB	GB	AC3	8'-0"	P	-	P	P	-	
362	ENTRY			CT1	RB	-	-	GB	GB	AC3	8'-0"	-	-	P	P	-	
363	ADMIN. ASSIST.			CT1	RB	GB	AP	GB	-	AC3	8'-6"	P	P	P	-	-	
364	ASSOC. DEAN'S OFFICE			CT1	RB	AP	GB	GB	GB	AC3	8'-6"	P	P	P	P	-	
365	CORR.			CT1	RB	-	GB	-	GB	AC3	8'-1"	-	P	-	P	-	
367	CORRIDOR			LVT	RB	GB	AP	GB	GB	AC1	8'-1"	P	P	P	P	-	
368	STUDENT WORK STATIONS			CT1	RB	GB	GB	GB	GB	AC3	8'-6"	P	P	P	P	-	
371	DECISION SCIENCE MGMT.			CT1	RB	GB	GB	GB	GB	AC3	8'-1"	P	P	P	P	-	
372	OFFICE			CT1	RB	GB	AP	GB	GB	AC3	8'-6"	P	P	P	P	-	
373	FINANCIAL ASSIST.			CT1	RB	GB	AP	AP	GB	AC3	8'-6"	P	P	P	P	-	
374	STOR.			CT1	RB	GB	GB	EX	GB	AC3	8'-1"	P	P	P	P	-	
375	PROGRAM DEVELOP			CT1	RB	GB	GB	AP	GB	AC3	8'-6"	P	P	P	P	-	
376	PROGRAM DEVELOP			CT1	RB	GB	GB	AP	GB	AC1	8'-6"	P	P	P	P	-	
377	OFFICE			CT3	RB	GB	GB	AP	GB	AC1	8'-6"	P	P	P	P	-	
378	CORRIDOR			LVT	RB	GB	-	GB	-	AC1	8'-1"	P	-	P	-	-	
379	STORAGE			LVT	RB	GB	GB	AP	GB	AC1	8'-6"	P	P	P	P	-	
381	MEN'S			PT2	PT2	GB/WT	GB	WT	GB	AC2	8'-1"	EP	EP	-	EP	-	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS

04 - FOURTH FLOOR FINISH SCHEDULE

SPACE	DESCRIPTION	WAINSCOT	WSCT. HT.	FLOOR	BASE	MATERIALS					Ceiling Height	FINISHES					REMARKS
						WALLS				CLG.		WALLS				CLG.	
						N	E	S	W			N	E	S	W		
401	STUDENT COMMONS			CT1	RB	EX/B	GB	GB	GB/WT	GB	VARIES	P	P	P	P	P	
402	ELEVATOR LEVEL 4																
403	STAIR A LEVEL 4			PT	PT	EX/B	GB/CW	GB/AS	GB/AS	GB	VARIES	-	P	P	P	P	PAINTED HANDRAILS, PORCELAIN TILE ON TREADS AND LANDINGS - PAINT EXISTING BRICK
404	MECHANICAL			SC	-	EX/B	GB	GB	GB	ES	VARIES	-	-	-	-	-	
404A	ELEV. EQUIP.			SC	-	B	GB/CB	GB	GB	ES	VARIES	-	P	-	-	-	
406	FOURTH FLOOR LOBBY			LVT	RB	-	GB	GB	GB	AC1	8'-1"	-	P	P	P	-	
407	ADA TLT.			PT2	PT2	GB	GB	WT	GB	ES	VARIES	EP	EP	-	EP	EP	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS
408	ADA TLT.			PT2	PT2	GB	GB	WT	GB	ES	VARIES	EP	EP	EP	EP	EP	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS
409	JANITOR / STORAGE			LVT	RB	GB	GB	EX	GB	ES	VARIES	EP	EP	EP	EP	EP	
411	CORRIDOR			LVT	RB	GB	-	GB	-	AC1	8'-1"	P	-	P	-	-	
413	OFFICE			CT3	RB	GB	GB	AP	GB	ES	VARIES	P	P	P	P	-	
414	ADMIN. ASST. OFFICE			CT3	RB	GB	GB	AP	GB	AC1	7'-2"	P	P	P	P	-	
415	SR FACULTY OFFICE			CT3	RB	GB	GB	AP	AP	AC1	7'-2"	P	P	P	P	-	
416	SR FACULTY OFFICE			CT3	RB	GB	GB	GB	AP	AC1	9'-0"	P	P	P	P	-	
417	OFFICE			CT3	RB	GB	GB	GB	GB	AC1	9'-0"	P	P	P	P	-	
418	CLASSROOM			CT3	RB	GB	GB	GB	AP	AC1	9'-0"	P	P	P	P	-	
419	CORRIDOR			LVT	RB	EX	EX	GB	AP	AC1	8'-1"	P	P	P	P	-	
421	CLASSROOM			CT3	RB	GB	GB/AP	GB	AP	AC1/EX	8'-0"	P	P	P	P	P	
422	WOMEN'S			PT2	PT2	GB/WT	GB/WT	EX	GB	EX	VARIES	EP	EP	EP	EP	EP	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS
423	OFFICE			CT3	RB	AP	GB	GB	AP	AC1	9'-0"	P	P	P	P	-	
424	OFFICE			CT3	RB	AP	GB	GB	AP	AC1	9'-0"	P	P	P	P	-	
425	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	9'-0"	P	P	P	P	-	
426	STUDENT COMMONS			CT1	RB	AP	-	-	GB	AC1	8'-6"	P	-	-	P	-	
427	EXT. BALCONY			SC	-	B	CW	EX	-	ES	14'-0"	-	-	-	-	-	EXTERIOR BALCONY IS SUBJECT TO ALTERNATE
428	STAIR C LEVEL 4			RT/LVT	RB	CB	CB	CB	CB	AC1	11'-3"	P	P	P	P	-	PAINTED HANDRAILS - RADIAL RUBBER TILE ON STAIRS
429	CORRIDOR			LVT	RB	GB/EX	-	GB	-	AC1	8'-1"	P	-	P	-	-	
431	STORAGE			SC	RB	GB	GB	GB/EX	GB	ES	-	P	P	P	P	-	
432	OFFICE			CT3	RB	EX	GB	EX	EX	AC1	8'-6"	P	P	P	P	-	
433	OFFICE			CT3	RB	EX	EX	EX	EX	AC1	8'-6"	P	P	P	P	-	
434	ELEC.			SC	RB	EX	EX	GB	GB	ES	-	P	P	P	P	-	
435	FACULTY & CONF. ROOM			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
436	BREAKOUT ROOM			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
437	BREAKOUT ROOM			CT3	RB	GB	GB	GB	GB	AC1	8'-6"	P	P	P	P	-	
438	CLASSROOM			CT3	RB	GB	GB	GB	GB/AP	AC1	9'-0"	P	P	P	P	-	
439	CORRIDOR			LVT	RB	-	GB	-	GB	AC1	8'-1"	-	P	-	P	-	
441	CLASSROOM			CT3	RB	GB	AP	GB	GB	AC1	9'-0"	P	P	P	P	-	
442	I.T.			SC	RB	EX	EX	GB	EX	ES	-	P	P	P	P	-	
443	FORENSIC CLASSROOM			CT3	RB	GB	AP	GB/AP	GB	AC1	9'-0"	P	P	P	P	-	
444	ELECT.			SC	RB	GB	GB	GB/AP	GB	ES	-	P	P	P	P	-	
445	CORRIDOR			LVT	RB	GB/AP	GB	GB	-	AC1	8'-1"	P	P	P	-	-	
446	OFFICE			CT3	RB	AP	GB	GB	GB	AC1	9'-0"	P	P	P	P	-	
447	OFFICE			CT3	RB	AP	AP	GB	GB	AC1	9'-0"	P	P	P	P	-	
448	MEN'S			PT2	PT2	GB/WT	EX	EX	GB/WT	EX	VARIES	EP	EP	EP	EP	EP	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS
449	CLASSROOM			CT3	RB	GB	AP	AP	EX	AC1/EX	8'-0"	P	P	P	P	P	
451	CORRIDOR			LVT	RB	EX	EX	GB	AP	AC1	8'-1"	P	P	P	P	-	
452	TIERED CLASSROOM			CT3	RB	EX	AP	EX	EX	AC1	9'-4"	P	P	P	P	-	ACOUSTIC WALL PANELS - SEE INTERIOR ELEVATIONS
453	STORAGE			SC	RB	EX	EX	EX	EX	ES	VARIES	P	P	P	P	-	
454	OFFICE			CT3	RB	GB	EX	AP	GB	EX	VARIES	P	P	P	P	P	
455	OFFICE			CT3	RB	GB	GB	AP	GB	EX	VARIES	P	P	P	P	P	
456	STORAGE			LVT	RB	GB	GB	AP	GB	EX	VARIES	P	P	P	P	P	
457	CORRIDOR			LVT	RB	GB/AP	-	GB	-	AC1	8'-1"	P	P	P	-	-	
458	ADA TLT.			PT2	PT2	GB	GB	WT	GB	EX	VARIES	EP	EP	EP	EP	EP	WALL TILE AT WET WALLS BEHIND SINKS AND TOILETS
459	OFFICE			CT3	RB	GB	GB	AP	GB	AC1	8'-1"	P	P	P	P	-	
460	OFFICE			CT3	RB	GB	GB	AP	GB	AC1	8'-1"	P	P	P	P	-	
461	OFFICE			CT3	RB	GB	AP	AP	AP	AC1	8'-6"	P	P	P	P	-	
462	MEZZ ACCESS			SC	-	GB	GB	EX	GB	ES	-	P	P	P	P	-	
463	CLOSET			SC	RB	GB	GB	EX	GB	GB	9'-2 1/2"	P	P	P	P	P	
501	WEST MEZZANINE			EX	-	-	-	-	-	EX	-	-	-	-	-	-	
502	EAST MEZZANINE			EX	-	-	-	-	-	EX	-	-	-	-	-	-	

4



FINISH SCHEDULE GENERAL NOTES

1. WALL LOCATIONS ARE BASED ON PLAN NORTH.
2. REFER TO INTERIOR ELEVATIONS FOR ACCENT PAINT LOCATIONS
3. PAINT ALL CONTROL JOINTS IN WALLS (CMU AND GYPSUM BOARD WALLS) TO MATCH ADJACENT WALL COLOR.
4. WALLS ADJACENT TO CEILING CLOUDS SHALL BE PAINTED TO ROOF DECK.
5. PAINT ALL GYPSUM BOARD FURR DOWNS AND SOFFITS. REFER TO INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR LOCATIONS.
6. PAINT ALL STRUCTURE, DUCTWORK, CONDUIT AND PIPING IN SPACES WITH CLOUD CEILING EXPOSED TO VIEW.
7. PROVIDE SOLID SURFACE SILLS FOR WINDOW OPENING (TYPICAL).
8. PROVIDE 1X STAIN GRADE WOOD TRIM SILLS FOR WINDOW OPENINGS (RADIUS EDGE TYPICAL).
9. PROVIDE WALL CORNER GUARDS AT ALL OUTSIDE GYPSUM BOARD WALL CORNERS AND CASED OPENINGS (TYPICAL) - COORDINATE WITH FLOOR PLANS.
10. PROVIDE MOISTURE RESISTANT TYPE GYPSUM BOARD IN WET AREAS (RESTROOMS AND ABOVE COUNTERTOPS WITH SINKS).
11. INSTALL PAINTED ZINC CONTROL JOINTS IN GYPSUM BOARD WALLS AS SHOWN ON INTERIOR ELEVATIONS.
12. PROVIDE CONTROL JOINTS IN GYPSUM BOARD AT A MIN. OF 30'-0" O.C. JOINTS SHALL BE AT EDGE OF DOOR OR WINDOW FRAME WHERE POSSIBLE TO PREVENT MOVEMENT / SETTLEMENT CRACKING. COORDINATE WITH FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS.
13. PROVIDE ABUSE RESISTANT GYPSUM BOARD FROM FLOOR TO 8 FEET HEIGHT IN ALL STUDENT OCCUPIED SPACES.

FINISH SCHEDULE LEGEND

AC1	ACOUSTIC LAY-IN CEILING TYPE 1
AC2	ACOUSTIC LAY-IN CEILING TYPE 2
AC3	ACOUSTIC LAY-IN CEILING TYPE 3
AP	APPLIED GYP. OR GYP. BD. ON FURRING STRIPS AND/OR HAT CHANNELS
AS	ALUMINUM STOREFRONT
B	BRICK
CB	CONCRETE BLOCK
CT1	CARPET TILE - TYPE 1
CT2	CARPET TILE - TYPE 2
CT3	CARPET TILE - TYPE 3
CW	ALUMINUM CURTAIN WALL
EP	EPOXY PAINT
ES	EXPOSED STRUCTURE
EX	EXISTING
GB	GYPSUM BOARD
P	PAINT- SEE SPECIFICATIONS SECTION 09 91 00
PT1	PORCELAIN TILE - TYPE 1
PT2	PORCELAIN TILE - TYPE 2
RB	RUBBER BASE
RT	RADIAL RUBBER TILE
SC	SEALED CONCRETE
LVT	LUXURY VINYL TILE
WT	PORCELAIN WALL TILES
WCT	WALK-OFF CARPET TILE

NOTES:
- REFER TO SPECIFICATIONS FOR PAINT TYPES AT ALL STEEL, HOLLOW METAL, ETC.
- WALL LOCATIONS ARE BASED ON PLAN NORTH

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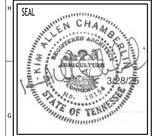
W&O Construction
150 Construction Drive, Livingston, TN 38570, Ph. (931) 403-1000, www.wocc.com

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL



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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE
FINISH SCHEDULE - 3RD AND 4TH FLOORS

DRAWN CWD

REVIEW KAC

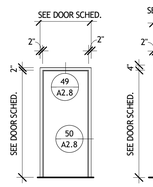
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DOOR SCHEDULE - FIRST FLOOR

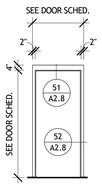
DOOR NO.	TYPE	NO. LEAFS	OPENING SIZE W	OPENING SIZE H	THICKNESS	MATERIAL	LABEL	UNDER CUT	GLASS TYPE	HARDWARE	FRAME TYPE	FRAME MATERIAL	DETAIL HEAD	DETAIL TRANS.	DETAIL JAMB	DETAIL SILL	REMARKS
101	FG	2	6' - 0"	7' - 0"	0' - 1 3/4"	AL	-	-	B	AL-1	XVIII	AL	12/21	7/12	23/92	14/24	CURTAINWALL DOOR; EXTERIOR; SECUIRTY CARD READER, DOOR ASSIST
103A	FG	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B90	-	E	AL-3	XII	AL	91	-	60	-	FAIL-SAFE HOLD OPEN DOOR HARDWARE
103B	FG	1	4' - 0"	7' - 0"	0' - 1 3/4"	AL	-	-	B	AL-4	IXX	AL	5/12	7/12	2/18/92	19/20	CURTAINWALL DOOR; EXTERIOR
103C	FG	1	3' - 0"	6' - 8"	0' - 1 3/4"	WD	B90	-	E	AL-5	XV	AL	32/35	30	29/31/36	-	
105	F	2	7' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	-	5	IV	HM	53	-	54	-	FAIL-SAFE HOLD OPEN DOOR
106	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	I	HM	49	-	50	-	
107	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
108	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	15	I	HM	49	-	50	-	
111	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
112A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
112B	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	16	I	HM	49	-	50	-	
113	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	17	VIII	HM	49/70	71	50/72/73	-	
114	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
115	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
116	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
117	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
118A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
118B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
119	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
120	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
121	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
122	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	17	VI	HM	49/70	71	50/72/73	-	
123	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
124	HG	1	4' - 0"	7' - 0"	0' - 1 3/4"	HM	-	-	B	1	V	HM	51/66	71	52/67/73	68/69	
126	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
127	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
132	F	1	3' - 6"	6' - 8"	0' - 1 3/4"	WD	C45	-	-	6	EX	EX	-	-	-	-	NEW DOOR IN EXIST. FRAME; NEW FIN. & HDW. PER SCHED. - FLIP DOOR SWING OUT
133	FG	2	6' - 0 1/2"	7' - 0"	0' - 1 3/4"	AL	-	-	B	AL-2	XVI	AL	8/12	-	11	9	CURTAINWALL DOOR; EXTERIOR; SECUIRTY CARD READER
134	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXIST WALL
135	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXIST WALL
136	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
137	NL	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	11	I	HM	49	-	50	-	SECURITY CARD READER
139	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
141A	NLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	D	7	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING OPENING
141B	NLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	D	7	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING OPENING
141C	NLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	D	7	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING OPENING
141D	NLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	D	7	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING OPENING
142	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	11	VI	HM	49/70	71	50/72/73	-	SECURITY CARD READER
143	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	19	I	HM	49	-	50	-	
144	HG	1	4' - 0"	7' - 0"	0' - 1 3/4"	HM	-	-	B	1	V	HM	51/66	71	52/67/73	68/69	
145A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	20	XI	HM	49/70	71	73/88/89	-	
145B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	12	XI	HM	49/70	71	73/88/89	-	SECURITY CARD READER
146	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	11	I	HM	49	-	50	-	SECURITY CARD READER
148	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	HM	-	-	-	3	EX	EX	-	-	-	-	NEW DOOR IN EXISTING FRAME; REFURBISH DOOR TO NEW CONDITION; REPLACE TOP GLAZED PANEL WITH SOLID TO MATCH
150	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
151	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	21	I	HM	49	-	50	-	SOUND SILLS ON DOOR - SECURITY CARD READER
153	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
154	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
155	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
156	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
157	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
158	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
159	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	I	HM	49	-	50	-	

DOOR SCHEDULE - SECOND FLOOR

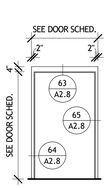
DOOR NO.	TYPE	NO. LEAFS	OPENING SIZE W	OPENING SIZE H	THICKNESS	MATERIAL	LABEL	UNDER CUT	GLASS TYPE	HARDWARE	FRAME TYPE	FRAME MATERIAL	DETAIL HEAD	DETAIL TRANS.	DETAIL JAMB	DETAIL SILL	REMARKS
203	FG	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B90	-	E	AL-3	XII	AL	35	-	60	-	FAIL-SAFE HOLD OPEN DOOR
205	F	2	7' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	-	5	IV	HM	53	-	54	-	FAIL-SAFE HOLD OPEN DOOR
206	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	I	HM	49	-	50	-	
207	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
208	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	15	I	HM	49	-	50	-	
211	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
212	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
213	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
214	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VII	HM	49/70	71	56/72/73	-	
215	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
216	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
217	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
219	P	2	5' - 11 3/8"	7' - 0 1/8"	0' - 1 3/4"	HM	-	-	B	-	XX	HM	4/A2.10	-	5/A2.10	-	NEW DOOR AND FRAME IN EXISTING OPENING - FIELD VERIFY SIZE OF OPENING
221	NL	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	23	IV	HM	49	-	55	-	
223A	NL	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	D	7	II	HM	51	-	52	-	
223B	NL	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	D	7	II	HM	51	-	52	-	
226	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	B60	-	-	8	I	HM	49	-	50	-	
227	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
228	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
229	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
232	FG	1	3' - 8 1/4"	7' - 2"	0' - 1 3/4"	AL	-	-	B	AL-6	XVII	AL	57/58	-	59	90	DOOR IN EXIST MASONRY OPG; V.I.F. ALL DIMENSIONS
233	NLR	1	4' - 0"	7' - 0"	0' - 1 3/4"	WD	B60	-	D	8	III	HM	63	-	64/65	-	
235	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
236	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	16	I	HM	49	-	50	-	
237	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	16	I	HM	49	-	50	-	
238	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
239A	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	24	I	HM	49	-	50	-	
239B	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	24	I	HM	49	-	50	-	
241A	F	1	3' - 1"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-8	XIV	AL	48/85	71	31/47/79	-	
241B	F	1	2' - 11 5/8"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-8	XIII	AL	48/85	71	31/47/79	-	
241C	F	1	2' - 11 5/8"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-8	XIII	AL	48/85	71	31/47/79	-	
243A	F	1	2' - 11 19/32"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-9	XIII	AL	48/85	71	31/47/79	-	
243B	F	1	2' - 11 5/8"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-10	XIII	AL	48/85	71	31/47/79	-	SECURITY CARD READER
244	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	19	I	HM	49	-	50	-	
245A	F	1	2' - 10 7/8"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-9	XIII	AL	48/85	71	31/47/79	-	
245B	F	1	2' - 11 5/8"	7' - 0"	0' - 1 3/4"	WD	-	-	-	AL-10	XIII	AL	48/85	71	31/47/79	-	SECURITY CARD READER
246	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
248	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
249	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
250	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
251	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
252	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
253A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	12	VI	HM	49/70	71	50/72/73	-	SECURITY CARD READER
253B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	20	VII	HM	49/70	71	56/72/73	-	
253C	F	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	26	IV	HM	49	-	55	-	
255	NL	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	23	IV	HM	49	-	50	-	
256	P	2	6' - 0"	7' - 0"	0' - 1 3/4"	HM	-	-	B	-	XX	HM	4/A2.10	-	5/A2.10	-	NEW DOOR AND FRAME IN EXISTING OPENING - FIELD VERIFY SIZE OF OPENING
260A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	11	VI	HM	49/70	71	50/72/73	-	SECURITY CARD READER
260B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	11	I	HM	49	-	50	-	SECURITY CARD READER
261	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
262	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
263	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
264	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
265	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	16	X	HM	49/70	71	50/72/73	-	
266	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
267	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
269	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	I	HM	49	-	50	-	



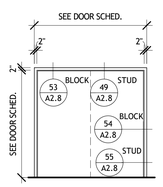
FRAME TYPE "I"
HOLLOW METAL FRAME



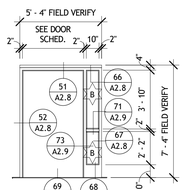
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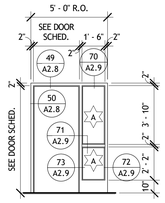
FRAME TYPE "III"
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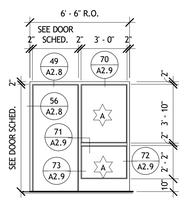
FRAME TYPE "IV"
HOLLOW METAL FRAME



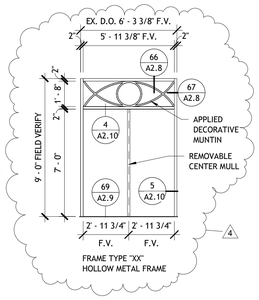
FRAME TYPE "V"
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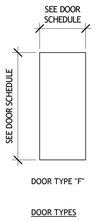
FRAME TYPE "VI"
HOLLOW METAL FRAME



FRAME TYPE "VII"
HOLLOW METAL FRAME

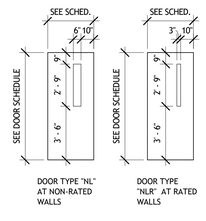


FRAME TYPE "XX"
HOLLOW METAL FRAME



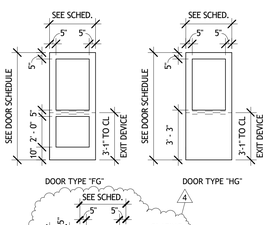
DOOR TYPE "F"

DOOR TYPES



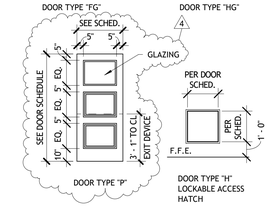
DOOR TYPE "NL" AT NON-RATED WALLS

DOOR TYPE "NLR" AT RATED WALLS



DOOR TYPE "FG"

DOOR TYPE "HG"

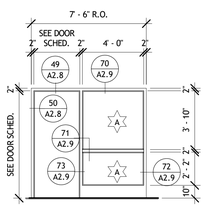


DOOR TYPE "P"

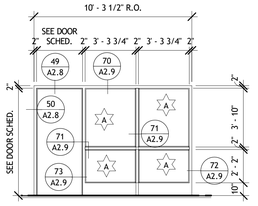
DOOR TYPE "H" LOCKABLE ACCESS HATCH

GLASS TYPES

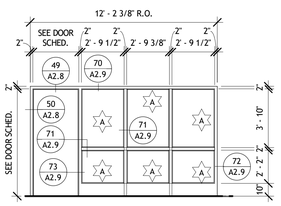
- A — 1/4" CLEAR TEMPERED
- B — 1" INSULATED LOW-E TEMPERED W/ TINT (1/4" TINTED TEMPERED GLASS WITH LOW-E SPUTTERED ON #2 SURFACE, 1/2" AIRSPACE, 1/4" CLEAR TEMPERED GLASS)
- C — 1" INSULATED SPANDREL TEMPERED (1/4" TINTED TEMPERED GLASS WITH SPANDREL TINT ON #2 SURFACE, 1/2" AIRSPACE, 1/4" CLEAR TEMPERED GLASS)
- D — SAFTIFIRST SUPERCLEAR - 45-HS-LI, 45 MINUTE RATING.
- E — SAFTIFIRST SUPERLITE II-XL - 90 MINUTE RATING.
- F — ONE-WAY GLAZING



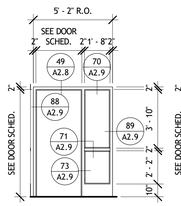
FRAME TYPE "VIII"
HOLLOW METAL FRAME



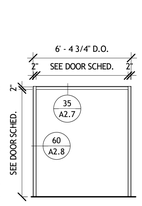
FRAME TYPE "IX"
HOLLOW METAL FRAME



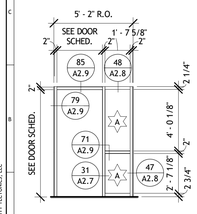
FRAME TYPE "X"
HOLLOW METAL FRAME



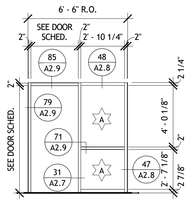
FRAME TYPE "XI"
HOLLOW METAL FRAME



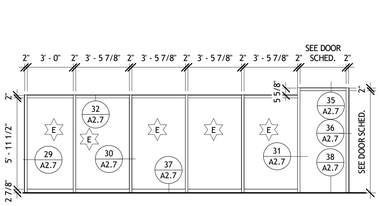
FRAME TYPE "XII"
ALUMINUM STOREFRONT FRAME



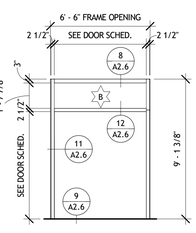
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ALUMINUM STOREFRONT FRAME



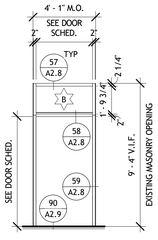
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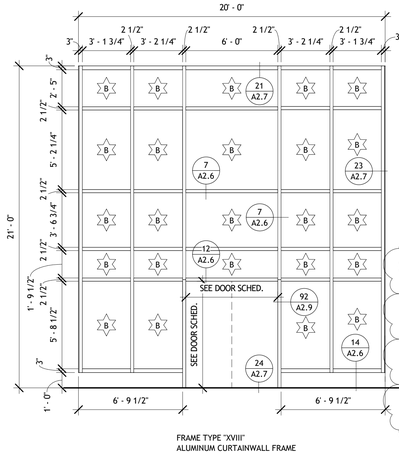
FRAME TYPE "XV"
ALUMINUM STOREFRONT FRAME



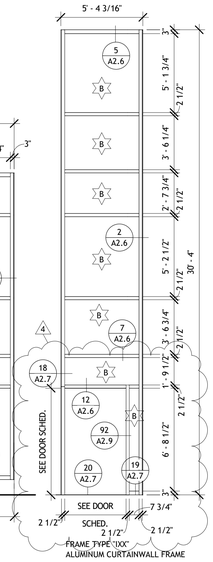
FRAME TYPE "XVI"
ALUMINUM CURTAINWALL FRAME



FRAME TYPE "XVII"
ALUMINUM CURTAINWALL FRAME



FRAME TYPE "XVIII"
ALUMINUM CURTAINWALL FRAME



FRAME TYPE "XIX"
ALUMINUM CURTAINWALL FRAME

GENERAL DOOR SCHEDULE NOTES

1. DOOR THICKNESS SHALL BE 1-3/4" UNLESS NOTED OTHERWISE.
2. ALL DOORS IN SMOKE BARRIERS AND FIRE RATED ASSEMBLIES SHALL BE SELF CLOSING OR PROVIDED WITH FAIL-SAFE HOLD OPEN DEVICES.
3. GLASS IN FIRE DOORS SHALL BE EMBEDDED IN PUTTY AND EXPOSED JOINTS BETWEEN METAL / WOOD AND GLASS SHALL BE STRUCK AND POINTED.
4. ALL VIEW PANELS IN FIRE DOORS SHALL BE LABELED AND SHALL HAVE A MINIMUM RATING OF 45 MINUTES PER NFPA 257.
5. FIRE RATED DOORS, AND THE ACCOMPANYING HARDWARE, FRAMES, CLOSING DEVICES, ANCHORAGE AND SILL SHALL BE APPROVED LISTED AND LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 80.
6. COMBUSTIBLE FLOOR FINISHES HAVING A CRITICAL RADIAN FLUX OF 0.22 W/CM2 OR LESS SHALL NOT EXTEND UNDER FIRE RATED DOORS. SUCH DOORWAYS SHALL HAVE METAL THRESHOLDS A MINIMUM WIDTH EQUAL TO THE JAMB DEPTH OR 4 INCHES, WHICHEVER IS LESS.
7. IF A DOOR IS EQUIPPED WITH A CLOSER, THE SWEEP SHALL BE SET SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH AS MEASURED FROM THE LEADING EDGE OF THE DOOR.
8. SURFACE APPLIED HARDWARE SHALL BE APPLIED TO THE FACE OF DOORS WITHOUT REMOVING MATERIAL FROM THE DOOR OTHER THAN A MAXIMUM OF 1" DIAMETER HOLES TO ACCOMMODATE OPERATIONAL ELEMENTS, WITH THE EXCEPTION OF CYLINDER HOLES, WHICH SHALL BE MADE AS SMALL AS POSSIBLE.
9. SIGNAGE ON RATED DOORS SHALL NOT EXCEED 5% OF THE AREA OF THE FACE OF THE DOOR. THEY SHALL BE ATTACHED USING ADHESIVE - SCREWS OR NAILS ARE NOT PERMITTED.
10. SIGNAGE SHALL NOT BE APPLIED TO GLASS AREAS OR ON THE OPERATING HARDWARE.
11. KNURL ALL KNOBS OR LEVERS TO MECHANICAL ROOMS, ELECTRICAL ROOMS OR CLOSETS AND OTHER HAZARDOUS AREAS THAT MAY PROVE DANGEROUS TO THE VISUALLY IMPAIRED.
12. ALL DOORS TO BE POSITIVE LATCHING, UNLESS NOTES OTHERWISE (EXCEPT MULTI-STALL RESTROOM DOORS).
13. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE AT THE JOB SITE FOR ALL RATED DOOR ASSEMBLIES.
14. ALL DOORS IN CLASSROOM, LAB AND PERFORMANCE AREAS TO HAVE ACOUSTIC SEALS, COORDINATE WITH SPECIFICATIONS.
15. ALL PANIC DEVICES TO BE PUSH BAR TYPE.
16. ALL STOREFRONT DOORS TO HAVE 10" BOTTOM RAIL, TYP.
17. IN DOORS WHERE VISION GLASS IS PROVIDED, THE MAXIMUM HEIGHT FORM THE FLOOR TO THE BOTTOM OF THE VIEWING GLASS SHALL BE 43"
18. DOORS SHALL BE INSTALLED 4" FROM THE OUTSIDE EDGE OF JAMB TO ADJACENT WALL UNLESS NOTED OR DEPICTED OTHERWISE.
19. UNDERCUTTING OF DOORS SHALL BE DONE IN ACCORDANCE WITH NFPA 80 (CURRENT ISSUE) TABLE 1-11.4.
20. WOOD DOORS TO BE SUPPLIED WITH PROPER BLOCKING FOR CLOSERS WITHOUT THRU BOLTS.
21. GC TO COORDINATE ELECTROMATIC HOLD OPENS WITH DOOR HARDWARE SUPPLIER AND ELECTRICIAN.
22. FRAME SUPPLIER TO PROV

DOOR SCHEDULE - THIRD FLOOR

DOOR											FRAME						REMARKS
DOOR NO.	TYPE	NO. LEAFS	OPENING SIZE		THICKNESS	MATERIAL	LABEL	UNDER CUT	GLASS TYPE	HARDWARE	TYPE	MATERIAL	DETAIL				
			W	H									HEAD	TRANS.	JAMB	SILL	
303	FG	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B90	-	E	AL-3	XII	AL	35	-	60	-	FAIL-SAFE HOLD OPEN DOOR
305	F	2	7' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	-	5	IV	HM	53	-	54	-	FAIL-SAFE HOLD OPEN DOOR
306	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	I	HM	49	-	50	-	
307	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
308	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	15	I	HM	49	-	50	-	
311	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
312	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
313	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
314	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VI	HM	49/70	71	50/72/73	-	
315A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	20	VI	HM	49/70	71	50/72/73	-	
315B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	20	VI	HM	49/70	71	50/72/73	-	
317	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VI	HM	49/70	71	50/72/73	-	
318	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
319	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
321	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
322	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
323	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	16	IX	HM	49/70	71	50/72/73	-	
325	FG	1	3' - 8 1/4"	7' - 2"	0' - 1 3/4"	AL	-	-	B	AL-6	XVII	AL	57/58	-	59	90	DOOR IN EXIST MASONRY OPG; V.I.F. ALL DIMENSIONS
326	NLR	1	4' - 0"	7' - 0"	0' - 1 3/4"	WD	B-60	-	D	8	III	HM	63	-	64/65	-	
328	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
329	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
331	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
332	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
333	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
334	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	11	VI	HM	49/70	71	50/72/73	-	SECURITY CARD READER
335A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
335B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
336	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
337	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
338	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	25	I	HM	49	-	50	-	
339	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	25	I	HM	49	-	50	-	
341	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	25	I	HM	49	-	50	-	
342A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	20	VI	HM	49/70	71	50/72/73	-	
342B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	20	VI	HM	49/70	71	50/72/73	-	
343	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
344	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	19	I	HM	49	-	50	-	
345	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
346	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
347	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
349	FG	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	16	IX	HM	49/70	71	50/72/73	-	
351	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
352	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
353	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
354A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
354B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
356	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
358	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
362	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	17	VI	HM	49/70	71	50/72/73	-	
364	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
368	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VII	HM	49/70	71	50/72/73	-	
371	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	17	VII	HM	49/70	71	56/72/73	-	
372	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
373	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
374	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
375A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
375B	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
376	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
377	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
379	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
381	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	I	HM	49	-	50	-	

DOOR SCHEDULE - FOURTH FLOOR

DOOR											FRAME						REMARKS
DOOR NO.	TYPE	NO. LEAFS	OPENING SIZE		THICKNESS	MATERIAL	LABEL	UNDER CUT	GLASS TYPE	HARDWARE	TYPE	MATERIAL	DETAIL				
			W	H									HEAD	TRANS.	JAMB	SILL	
403	FG	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	B90	-	E	AL-3	XII	AL	35	-	60	-	FAIL-SAFE HOLD OPEN DOOR
404A	F	1	4' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	-	9	I	HM	49	-	50	-	
404B	F	1	4' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	-	9	I	HM	49	-	50	-	
404C	F	1	4' - 0"	7' - 0"	0' - 1 3/4"	WD	B90	-	-	9	I	HM	49	-	50	-	
406	F	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	C45	-	-	5	IV	HM	49	-	55	-	FAIL-SAFE HOLD OPEN DOOR
407	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
408	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
409	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	15	I	HM	49	-	50	-	
413A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
413B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
413C	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
414A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	17	VI	HM	49/70	71	50/72/73	-	
414B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	
415	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
416	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
417	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
418	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VI	HM	49/70	71	50/72/73	-	
421A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VI	HM	49/70	71	50/72/73	-	
421B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
421C	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
422A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING OPENING
422B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
423	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
424	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
425	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
427	FG	1	3' - 8 1/4"	7' - 2"	0' - 1 3/4"	AL	-	-	B	AL-6	XVII	AL	57/58	-	59	90	DOOR IN EXIST MASONRY OPG; V.I.F. ALL DIMENSIONS
428	NLR	1	4' - 0"	7' - 0"	0' - 1 3/4"	WD	B-60	-	D	8	III	HM	63	-	64/65	-	
431	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
432	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
433	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
434	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
435	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
436	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
437	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
438	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VI	HM	49/70	71	50/72/73	-	
441	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	22	VI	HM	49/70	71	50/72/73	-	
442	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	19	II	HM	51	-	52	-	
443	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	11	VI	HM	49/70	71	50/72/73	-	SECURITY CARD READER
444	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
446	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
447	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
448A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	13	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING OPENING
448B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
449	NL	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	A	22	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING WALL
449B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
449C	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
452A	NLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C-45	-	D	7	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING WALL
452B	NLR	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C-45	-	D	7	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING WALL
453A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	C-45	-	-	10	II	HM	51	-	52	-	NEW DOOR AND FRAME IN EXISTING WALL
453B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
453C	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
454A	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
454B	H	1	2' - 0"	2' - 0"	0' - 1 1/2"	-	-	-	-	AL-7	PER MANUF.	-	-	-	-	-	LOCKABLE ACCESS HATCH
455	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
456	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	I	HM	49	-	50	-	
458	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	14	I	HM	49	-	50	-	
459	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
460	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
461	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	16	VI	HM	49/70	71	50/72/73	-	
462	F	1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	18	I	HM	49	-	50	-	
463	F	2	6' - 0"	7' - 0"	0' - 1 3/4"	WD	-	-	-	26	IV	HM	49	-	55	-	

4

KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — AGRICULTURE — No. 19514 — STATE OF TENNESSEE — 5/16/25

4

GLASS TYPES

- A — 1/4" CLEAR TEMPERED
- B — 1" INSULATED LOW-E TEMPERED W/ TINT (1/4" TINTED TEMPERED GLASS WITH LOW-E SPUTTERED ON #2 SURFACE, 1/2" AIRSPACE, 1/4" CLEAR TEMPERED GLASS)
- C — 1" INSULATED SPANDREL TEMPERED (1/4" TINTED TEMPERED GLASS WITH SPANDREL TINT ON #2 SURFACE, 1/2" AIRSPACE, 1/4" CLEAR TEMPERED GLASS)
- D — SAFTIFIRST SUPERCLEAR - 45-HS-LI, 45 MINUTE RATING.
- E — SAFTIFIRST SUPERLITE II-XL - 90 MINUTE RATING.
- F — ONE-WAY GLAZING

GENERAL DOOR SCHEDULE NOTES

1. DOOR THICKNESS SHALL BE 1-3/4" UNLESS NOTED OTHERWISE.
2. ALL DOORS IN SMOKE BARRIERS AND FIRE RATED ASSEMBLIES SHALL BE SELF CLOSING OR PROVIDED WITH FAIL-SAFE HOLD OPEN DEVICES.
3. GLASS IN FIRE DOORS SHALL BE EMBEDDED IN PUTTY AND EXPOSED JOINTS BETWEEN METAL / WOOD AND GLASS SHALL BE STRUCK AND POINTED.
4. ALL VIEW PANELS IN FIRE DOORS SHALL BE LABELED AND SHALL HAVE A MINIMUM RATING OF 45 MINUTES PER NFPA 257.
5. FIRE RATED DOORS, AND THE ACCOMPANYING HARDWARE, FRAMES, CLOSING DEVICES, ANCHORAGE AND SILL SHALL BE APPROVED LISTED AND LABELED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 80.
6. COMBUSTIBLE FLOOR FINISHES HAVING A CRITICAL RADIAN FLUX OF 0.22 W/CM2 OR LESS SHALL NOT EXTEND UNDER FIRE RATED DOORS. SUCH DOORWAYS SHALL HAVE METAL THRESHOLDS A MINIMUM WIDTH EQUAL TO THE JAMB DEPTH OR 4 INCHES, WHICHEVER IS LESS.
7. IF A DOOR IS EQUIPPED WITH A CLOSER, THE SWEEP SHALL BE SET SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH AS MEASURED FROM THE LEADING EDGE OF THE DOOR.
8. SURFACE APPLIED HARDWARE SHALL BE APPLIED TO THE FACE OF DOORS WITHOUT REMOVING MATERIAL FROM THE DOOR OTHER THAN A MAXIMUM OF 1" DIAMETER HOLES TO ACCOMMODATE OPERATIONAL ELEMENTS, WITH THE EXCEPTION OF CYLINDER HOLES, WHICH SHALL BE MADE AS SMALL AS POSSIBLE.
9. SIGNAGE ON RATED DOORS SHALL NOT EXCEED 5% OF THE AREA OF THE FACE OF THE DOOR. THEY SHALL BE ATTACHED USING ADHESIVE - SCREWS OR NAILS ARE NOT PERMITTED.
10. SIGNAGE SHALL NOT BE APPLIED TO GLASS AREAS OR ON THE OPERATING HARDWARE.
11. KNURL ALL KNOBS OR LEVERS TO MECHANICAL ROOMS, ELECTRICAL ROOMS OR CLOSETS AND OTHER HAZARDOUS AREAS THAT MAY PROVE DANGEROUS TO THE VISUALLY IMPAIRED.
12. ALL DOORS TO BE POSITIVE LATCHING, UNLESS NOTES OTHERWISE (EXCEPT MULTI-STALL RESTROOM DOORS).
13. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE AT THE JOB SITE FOR ALL RATED DOOR ASSEMBLIES.
14. ALL DOORS IN CLASSROOM, LAB AND PERFORMANCE AREAS TO HAVE ACOUSTIC SEALS, COORDINATE WITH SPECIFICATIONS.
15. ALL PANIC DEVICES TO BE PUSH BAR TYPE.
16. ALL STOREFRONT DOORS TO HAVE 10" BOTTOM RAIL, TYP.
17. IN DOORS WHERE VISION GLASS IS PROVIDED, THE MAXIMUM HEIGHT FORM THE FLOOR TO THE BOTTOM OF THE VIEWING GLASS SHALL BE 43"
18. DOORS SHALL BE INSTALLED 4" FROM THE OUTSIDE EDGE OF JAMB TO ADJACENT WALL UNLESS NOTED OR DEPICTED OTHERWISE.
19. UNDERCUTTING OF DOORS SHALL BE DONE IN ACCORDANCE WITH NFPA 80 (CURRENT ISSUE) TABLE 1-11.4.
20. WOOD DOORS TO BE SUPPLIED WITH PROPER BLOCKING FOR CLOSERS WITHOUT THRU BOLTS.
21. GC TO COORDINATE ELECTROMATIC HOLD OPENS WITH DOOR HARDWARE SUPPLIER AND ELECTRICIAN.
22. FRAME SUPPLIER TO PROVIDE WELDED BOX IN HM FRAMES WHERE ELECTRICAL CONNECTIONS ARE REQUIRED, TYP.
23. AS PER IBC 2012, SECTION 1008.1.3: "THE OPENING FOR INTERIOR SIDE-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED A 5 POUND FORCE. FOR OTHER SIDE-SWING, SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 30-POUND FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECTED TO A 15-POUND FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE." DOOR SHALL BE INSTALLED AND ADJUSTED TO MEET THIS REQUIREMENT.
24. REFER TO M,P, & E DRAWINGS FOR ADDITIONAL INFORMATION REGARDING POWER TO ELECTRIFIED HARDWARE.
25. PAINT DOOR LOUVERS AND LITE KIT FRAMES TO MATCH DOOR FRAME PAINT.
26. ADA 404.2.11 VISION LIGHTS. - DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES (1090 MM) MAXIMUM ABOVE THE FINISH FLOOR.

COMMUNITY TECTONICS ARCHITECTS — 7610 Gleason Road, Knoxville, TN 37919 — Ph. (865) 637-8890 — www.communitytectonics.com

Upland Design Group — 2557 Cranville, TN 38557 — P.O. Box 1026 — Ph. (931) 484-7541 — www.uplanddesigngroup.com

W&O Construction — 150 Construction Drive, Livingston, TN 38570 — Ph. (931) 403-1000 — www.wocc.com

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

KIM ALLEN CHAMBERLAIN — REGISTERED ARCHITECT — AGRICULTURE — No. 19514 — STATE OF TENNESSEE — 3/28/25

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO.
22025

ISSUE DATE
3-28-25

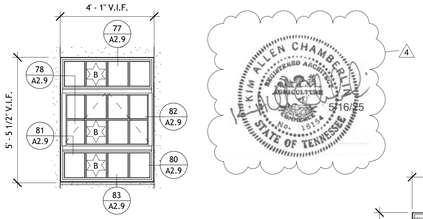
SHEET TITLE
DOOR SCHEDULE - 3RD AND 4TH FLOOR

DRAWN
CWD

REVIEW
KAC

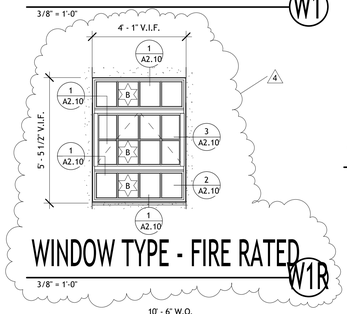
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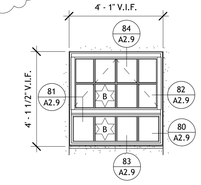
WINDOW TYPE

3/8" = 1'-0" W1



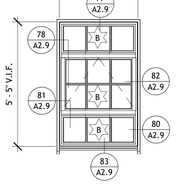
WINDOW TYPE - FIRE RATED

3/8" = 1'-0" W1R



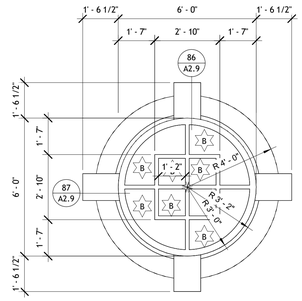
4TH FLOOR EX. WINDOW

3/8" = 1'-0" W2



4TH FLOOR EX. DORMER

3/8" = 1'-0" W3

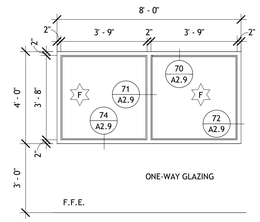


4TH FLOOR CIRCLE WINDOW

3/8" = 1'-0" W4

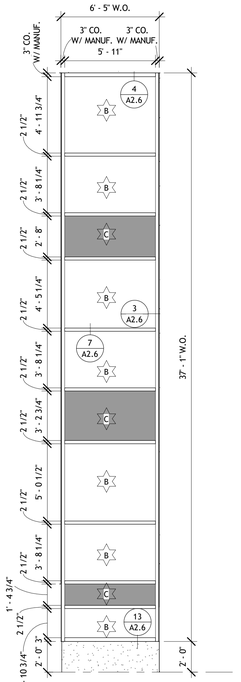
GLASS TYPES

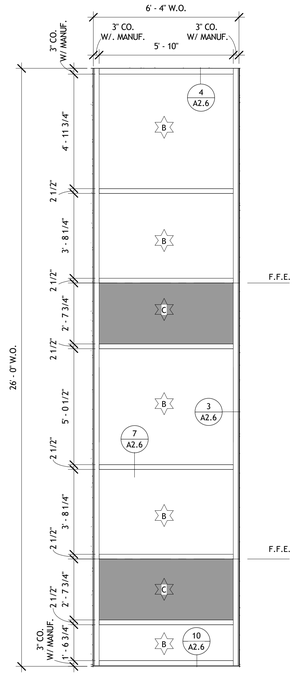
- A — 1/4" CLEAR TEMPERED
- B — 1" INSULATED LOW-E TEMPERED W/ TINT (1/4" TINTED TEMPERED GLASS WITH LOW-E SPUTTERED ON #2 SURFACE, 1/2" AIRSPACE, 1/4" CLEAR TEMPERED GLASS)
- C — 1" INSULATED SPANDREL TEMPERED (1/4" TINTED TEMPERED GLASS WITH SPANDREL TINT ON #2 SURFACE, 1/2" AIRSPACE, 1/4" CLEAR TEMPERED GLASS)
- D — SAFTIFIRST SUPERCLEAR - 45-HS-LI, 45 MINUTE RATING.
- E — SAFTIFIRST SUPERLITE II-XL - 90 MINUTE RATING.
- F — ONE-WAY GLAZING



WINDOW TYPE A

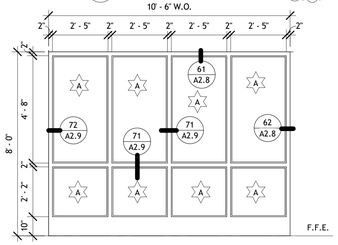
3/8" = 1'-0" A





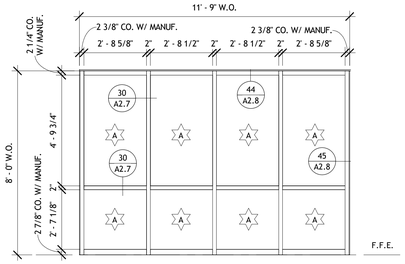
WINDOW TYPE G

3/8" = 1'-0" G



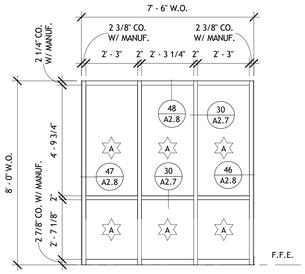
WINDOW TYPE B

3/8" = 1'-0" B



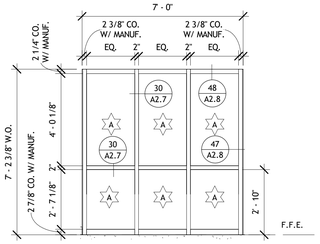
WINDOW TYPE C

3/8" = 1'-0" C



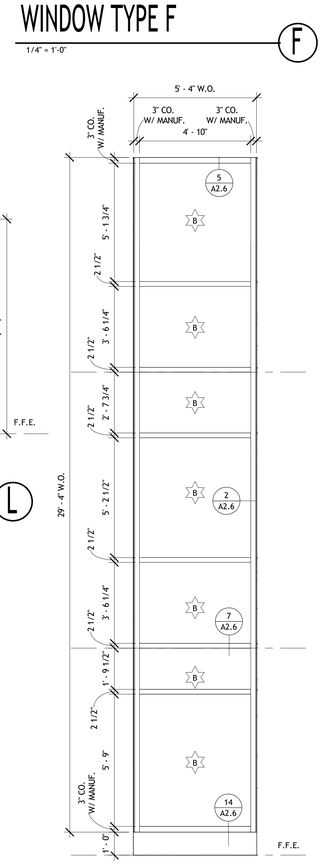
WINDOW TYPE D

3/8" = 1'-0" D



WINDOW TYPE E

3/8" = 1'-0" E

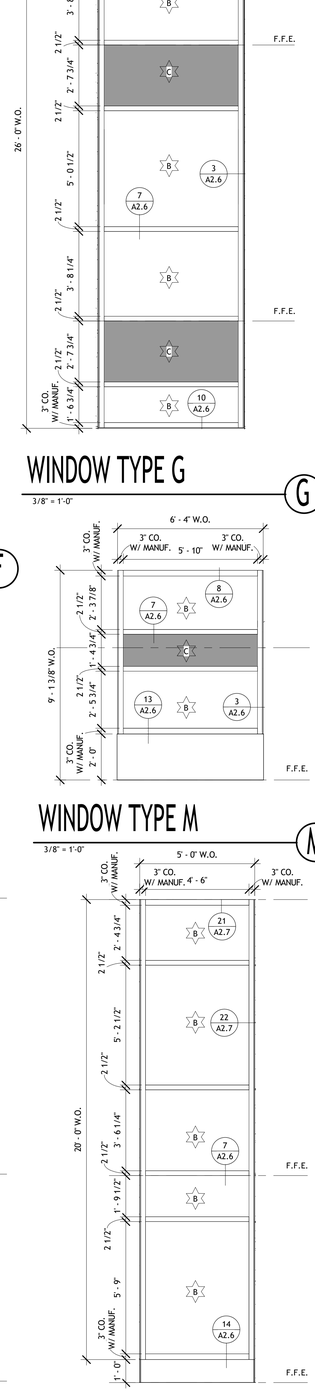


WINDOW TYPE F

1/4" = 1'-0" F

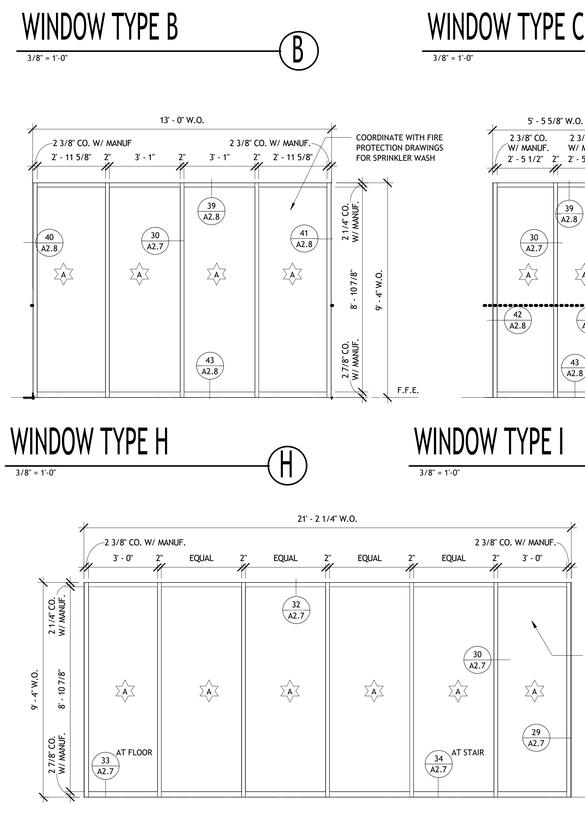
WINDOW TYPE M

3/8" = 1'-0" M



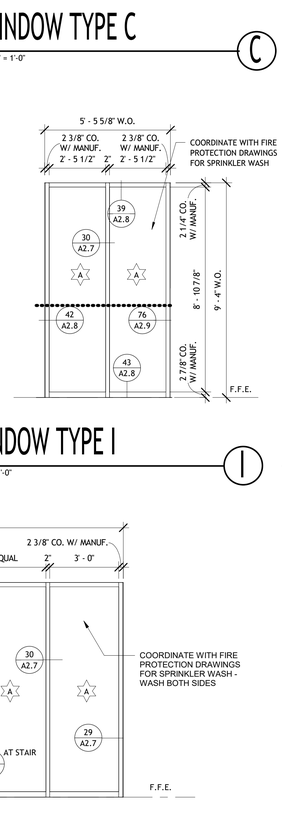
WINDOW TYPE R

3/8" = 1'-0" R



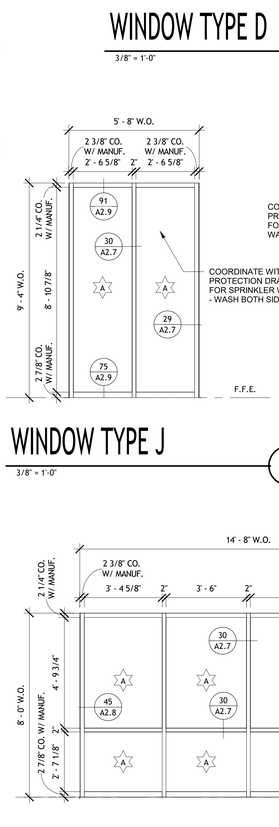
WINDOW TYPE H

3/8" = 1'-0" H



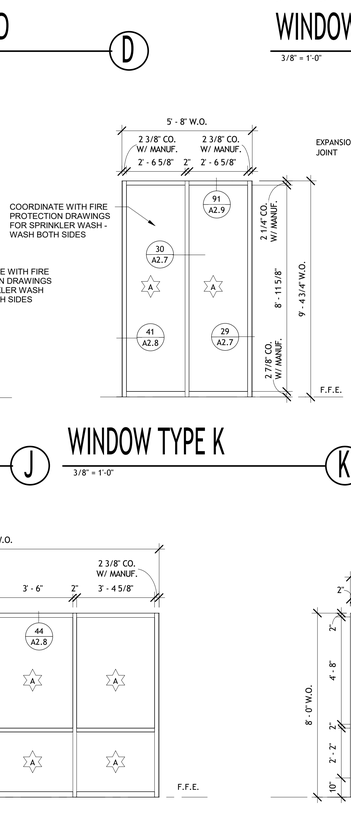
WINDOW TYPE I

3/8" = 1'-0" I



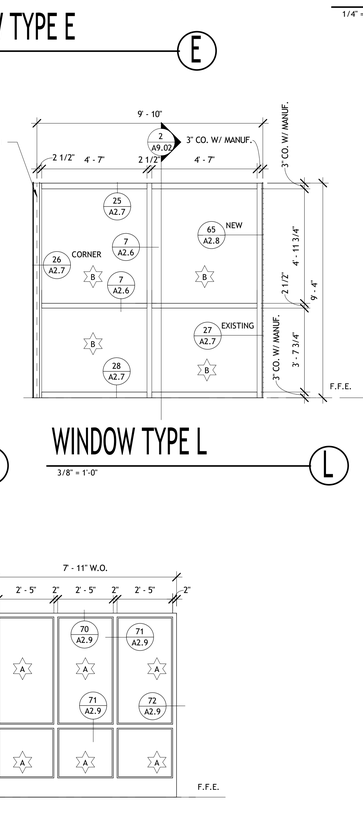
WINDOW TYPE J

3/8" = 1'-0" J



WINDOW TYPE K

3/8" = 1'-0" K

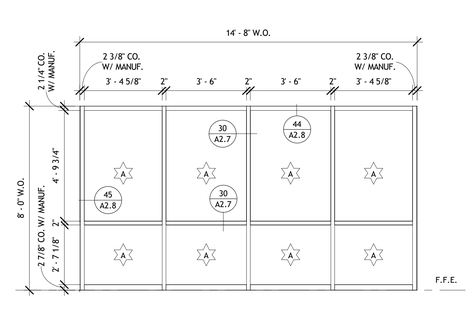


WINDOW TYPE L

3/8" = 1'-0" L

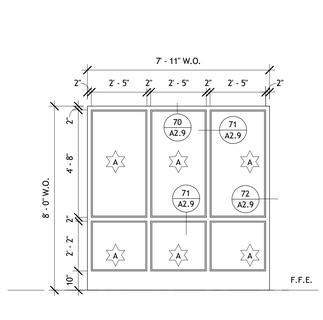
WINDOW TYPE N

3/8" = 1'-0" N



WINDOW TYPE O

3/8" = 1'-0" O



WINDOW TYPE P

3/8" = 1'-0" P

WINDOW TYPE Q

3/8" = 1'-0" Q

WINDOW TYPE R

3/8" = 1'-0" R

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

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TENNESSEE TECH. UNIVERSITY

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

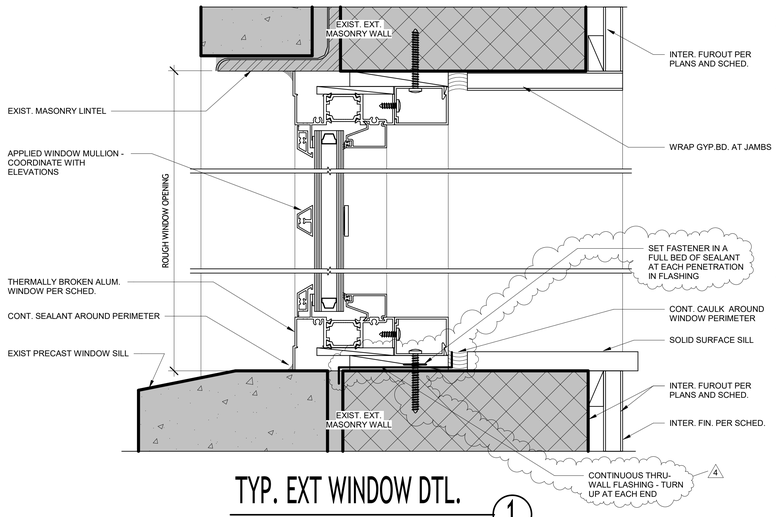
SHEET TITLE WINDOW TYPES

DRAWN CWD

REVIEW KAC

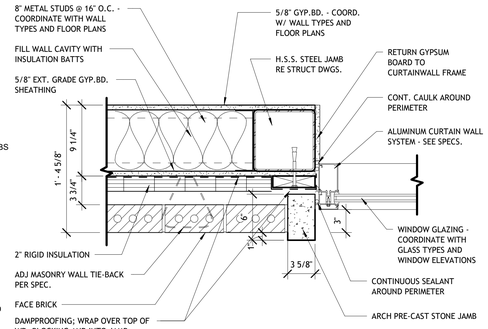
A2.5

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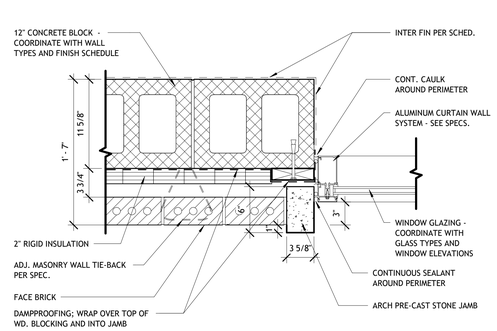
TYP. EXT WINDOW DTL. 1

6" = 1'-0"



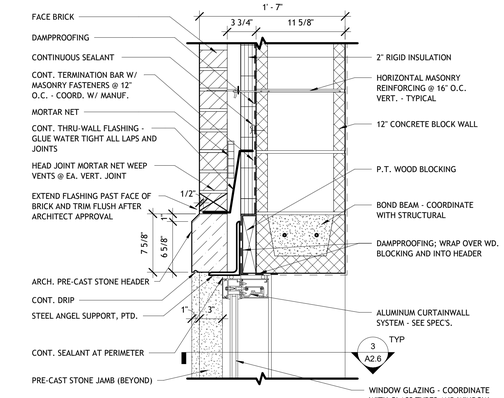
JAMB DETAIL 2

1 1/2" = 1'-0"



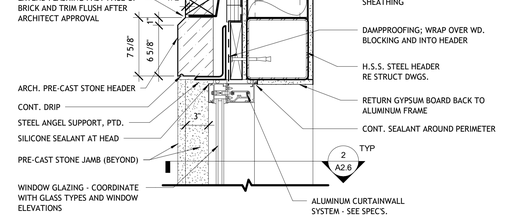
JAMB DETAIL 3

1 1/2" = 1'-0"



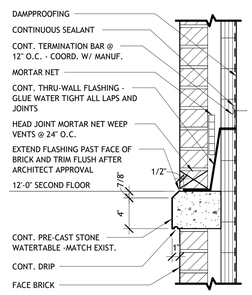
TYP. CURTAINWALL HEAD 4

1 1/2" = 1'-0"



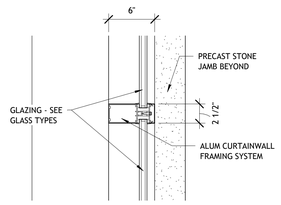
TYP. CURTAIN WALL HEAD 5

1 1/2" = 1'-0"



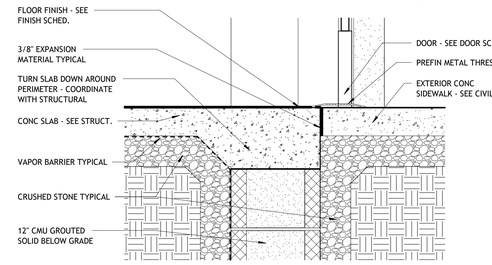
WATERTABLE DETAIL 6

1 1/2" = 1'-0"



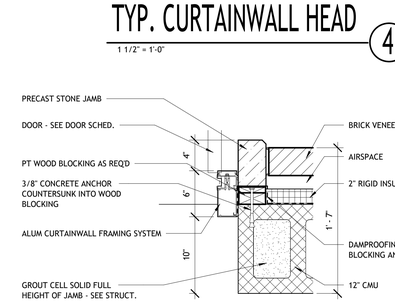
TRANSOM DETAIL 7

1 1/2" = 1'-0"



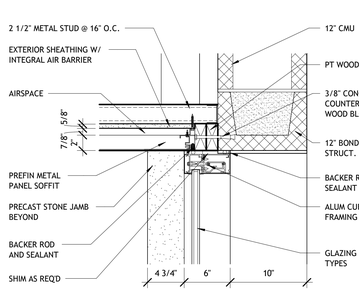
SILL DETAIL 9

1 1/2" = 1'-0"



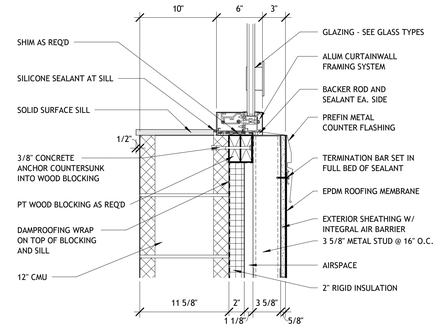
JAMB DETAIL 11

1 1/2" = 1'-0"



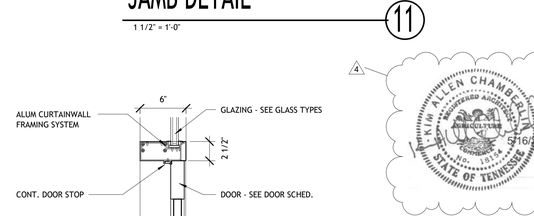
HEAD DETAIL 8

1 1/2" = 1'-0"



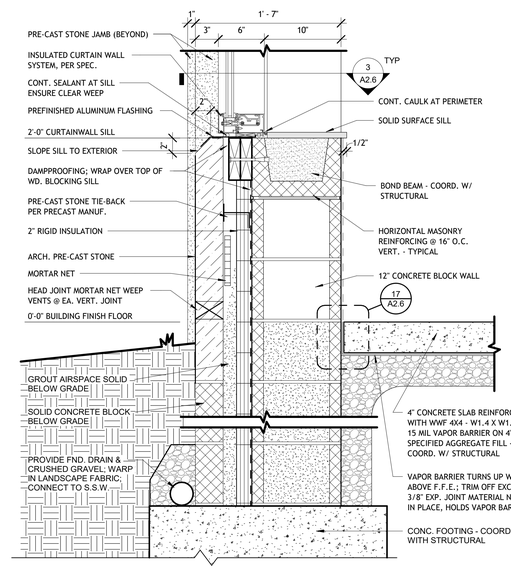
SILL DETAIL 10

1 1/2" = 1'-0"



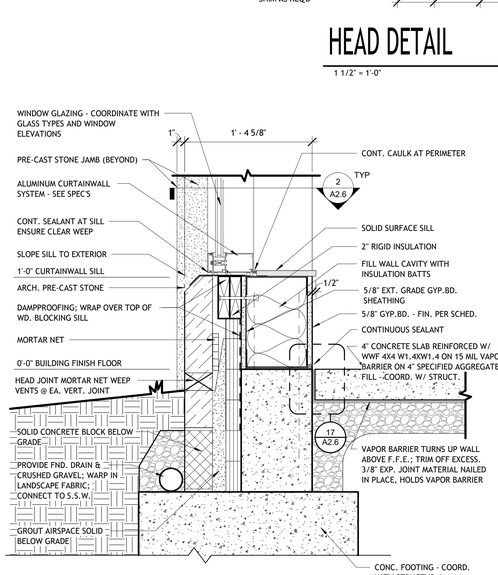
TRANSOM DETAIL 12

1 1/2" = 1'-0"



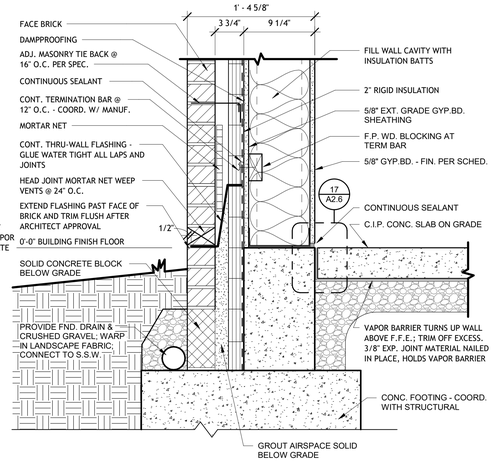
SILL DETAIL 13

1 1/2" = 1'-0"



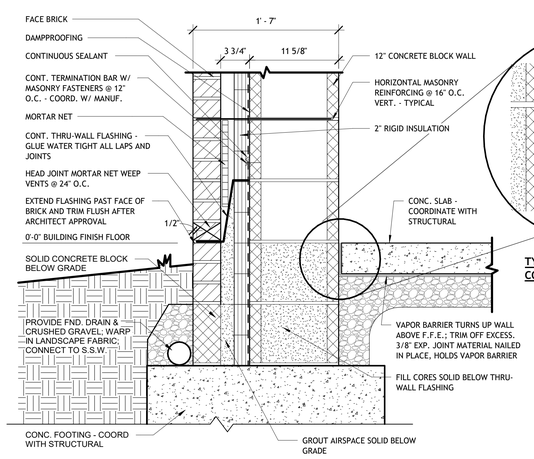
SILL DETAIL 14

1 1/2" = 1'-0"



BASE OF WALL DETAIL 15

1 1/2" = 1'-0"



TYPICAL SLAB TO WALL CONDITION

BASE OF WALL DETAIL 17

1 1/2" = 1'-0"

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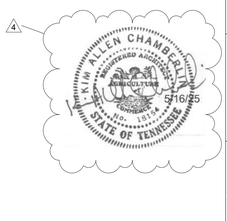
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Livingston, TN 38570
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www.wocc.com

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
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OWNER
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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

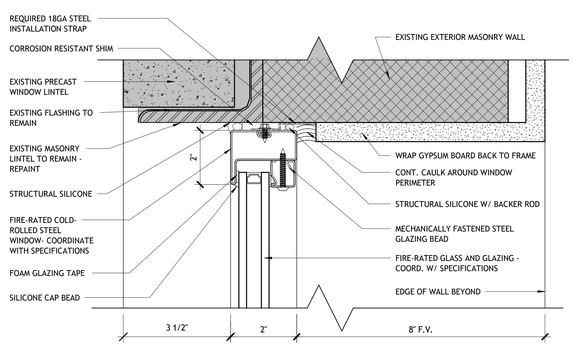
SHEET TITLE EXTERIOR DETAILS

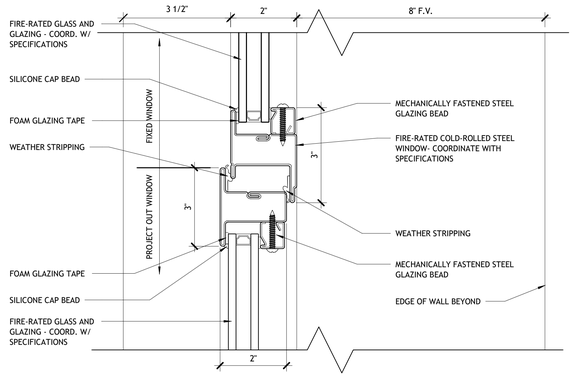
DRAWN CWD

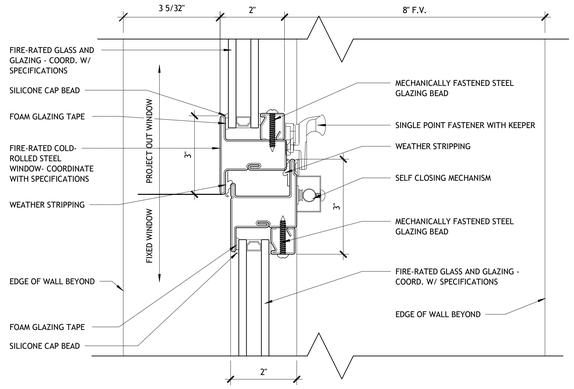
REVIEW KAC

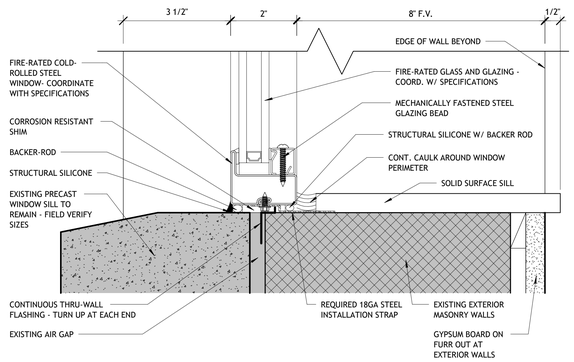
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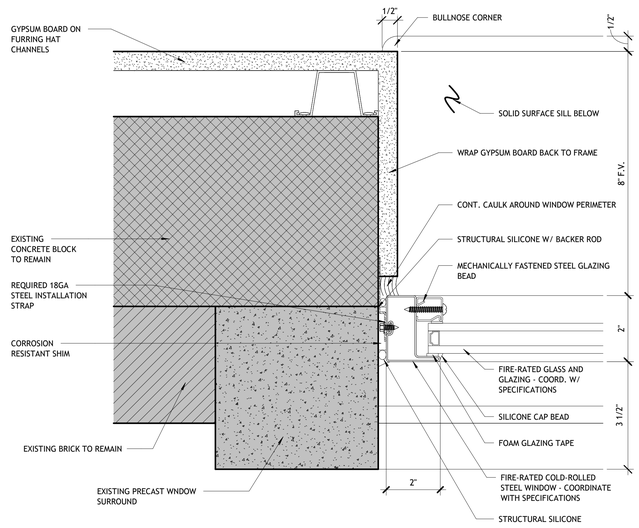






FIRE RATED WINDOW

6" = 1'-0" — 1

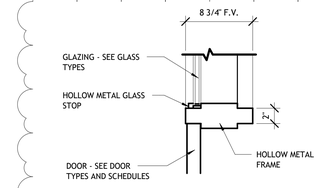


FIRE RATED WINDOW JAMB

6" = 1'-0" — FIXED WINDOW — 2

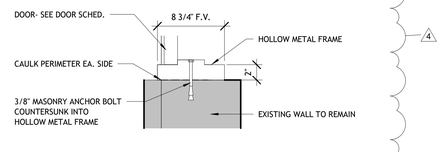
FIRE RATED WINDOW JAMB

6" = 1'-0" — OPERABLE WINDOW — 3



HEAD DETAIL

1 1/2" = 1'-0" — 4



JAMB DETAIL

1 1/2" = 1'-0" — 5

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LOCATION
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OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIM ALLEN CHAMBERLIN — REGISTERED ARCHITECT — No. 18134 — STATE OF TENNESSEE
3/28/25

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4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE
FIRE RATED WINDOW DETAILS

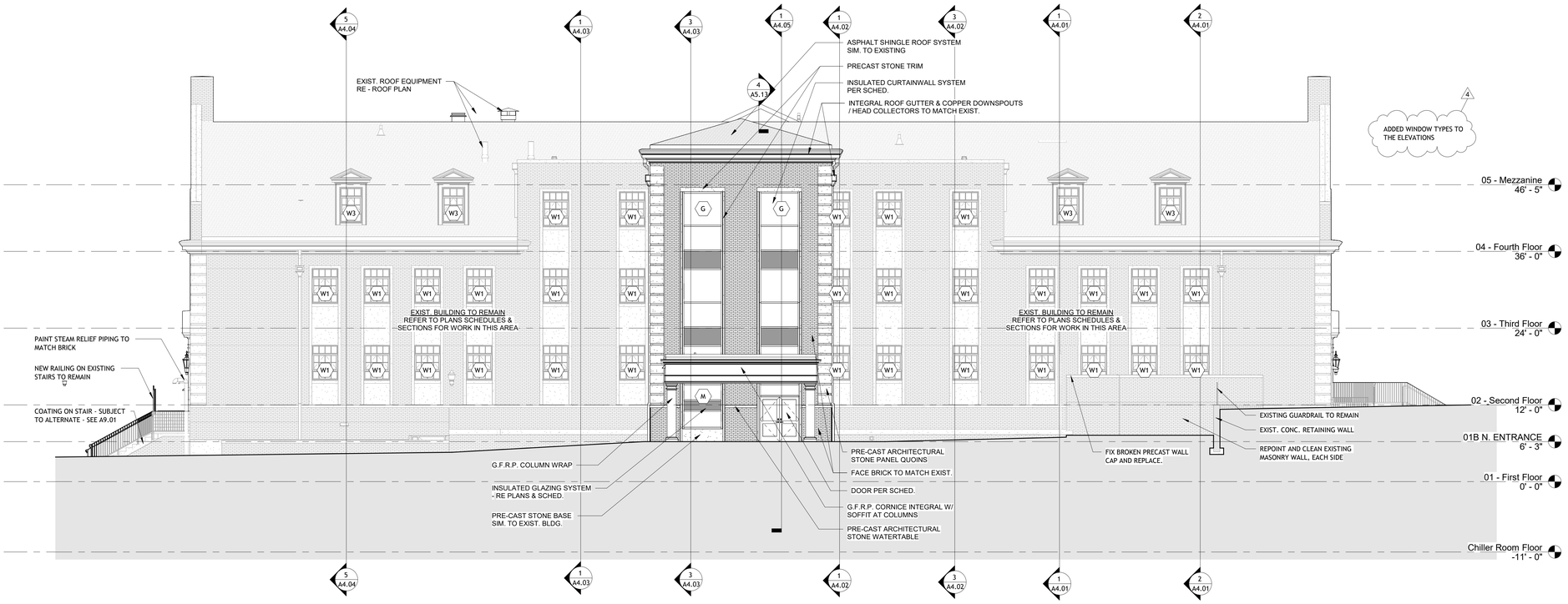
DRAWN CWD

REVIEW KAC

A2.10

4 — KIM ALLEN CHAMBERLIN — REGISTERED ARCHITECT — No. 18134 — STATE OF TENNESSEE — 5/16/25

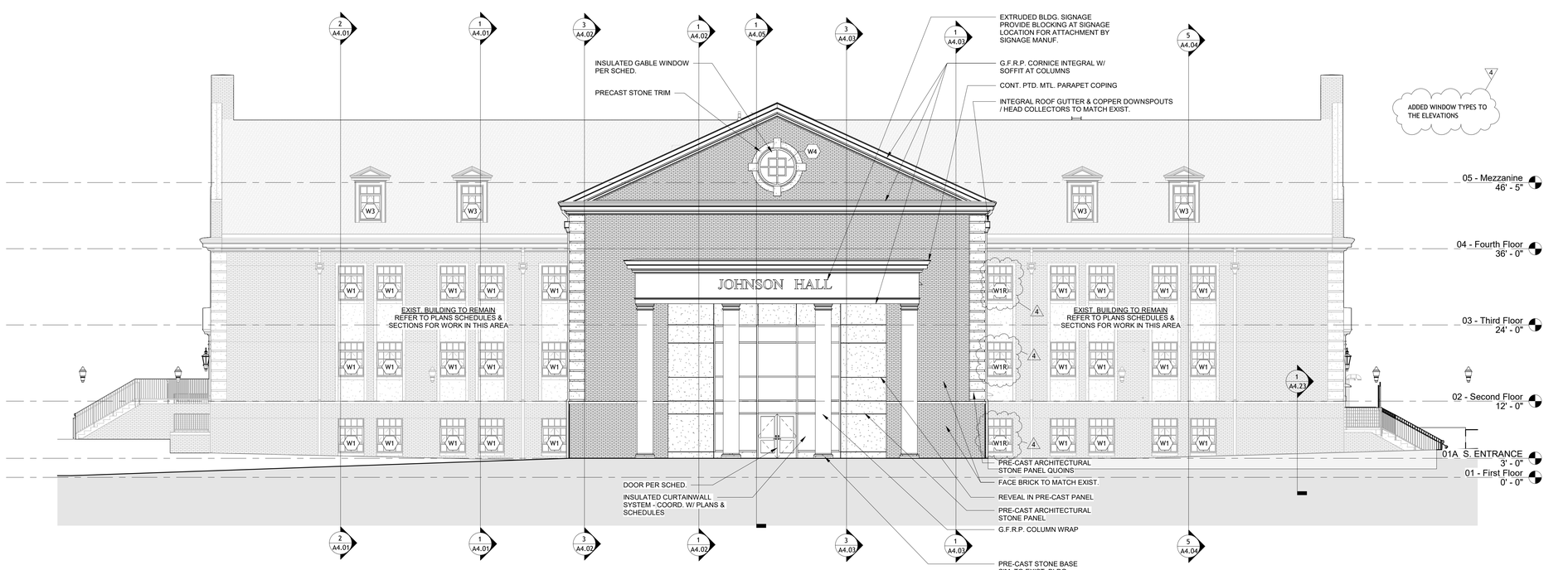
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ELEVATION - PLAN NORTH 1

1/8" = 1'-0"

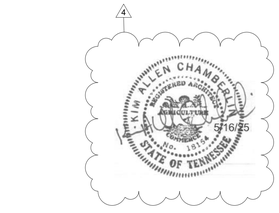
0 1'-2" 4' 8'

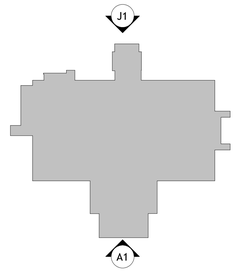


ELEVATION - PLAN SOUTH 2

1/8" = 1'-0"

0 1'-2" 4' 8'





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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

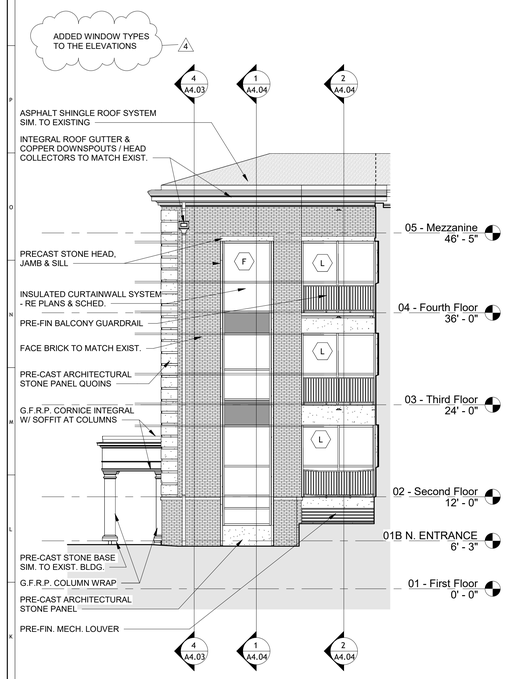
SHEET TITLE
EXTERIOR ELEVATIONS

DRAWN CWD

REVIEW KAC

A3.01

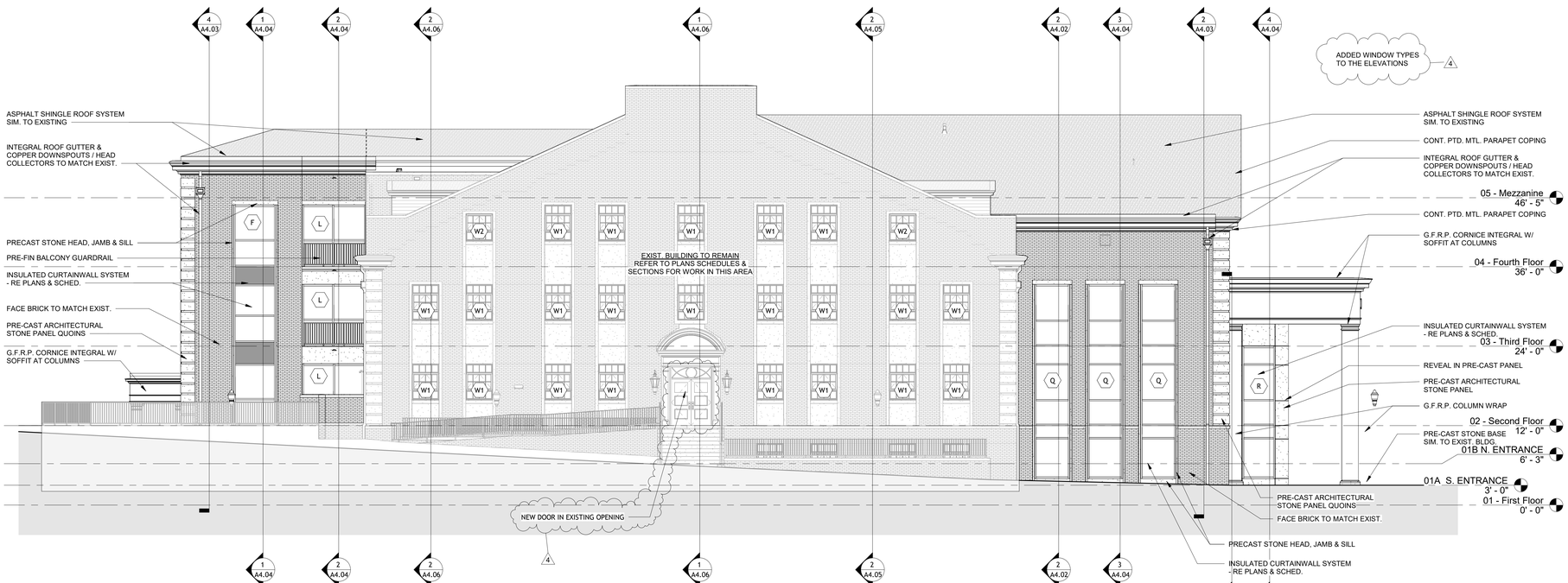
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ELEVATION - PLAN WEST

1/8" = 1'-0"

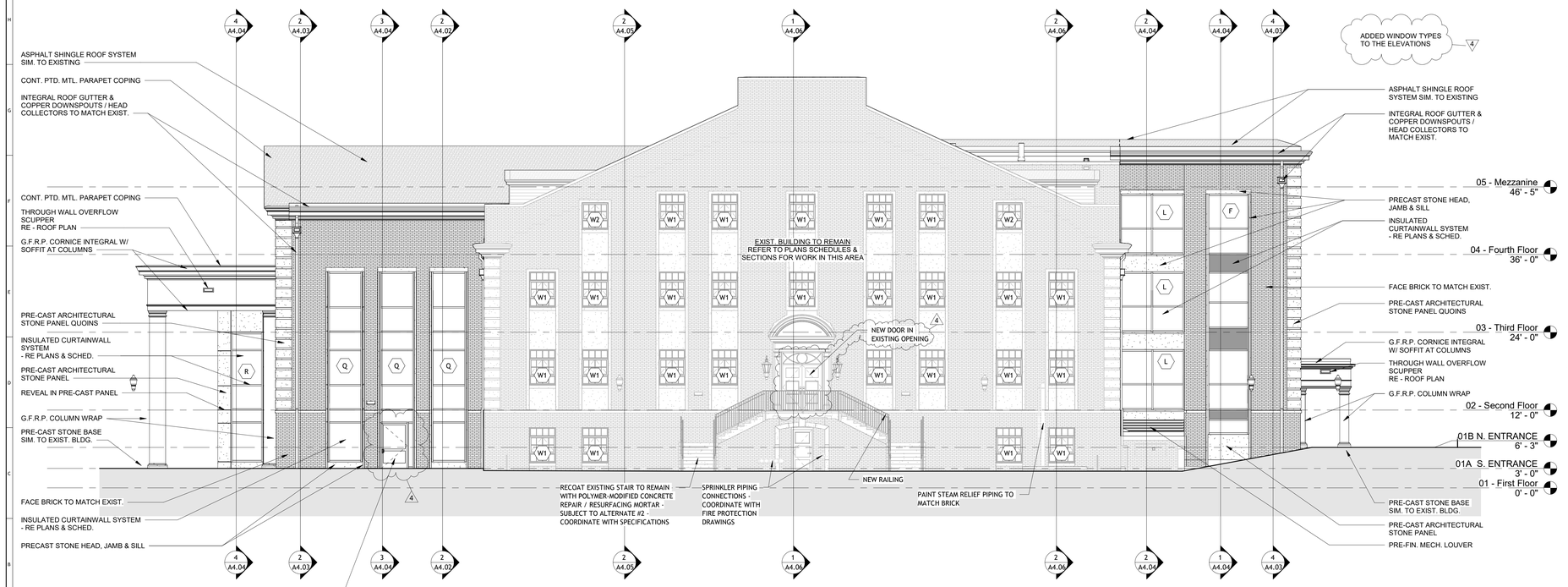
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ELEVATION - PLAN WEST

1/8" = 1'-0"

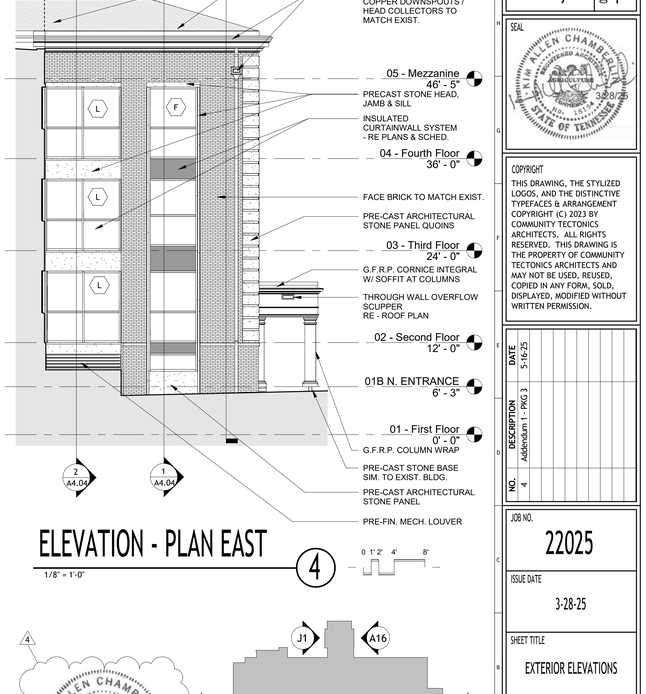
2



ELEVATION - PLAN EAST

1/8" = 1'-0"

3



ELEVATION - PLAN EAST

1/8" = 1'-0"

4

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KEVIN ALLEN CHAMBERLAIN
REGISTERED ARCHITECT
AGRICULTURE
No. 19134
STATE OF TENNESSEE
3-28-25

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JOB NO.
22025

ISSUE DATE
3-28-25

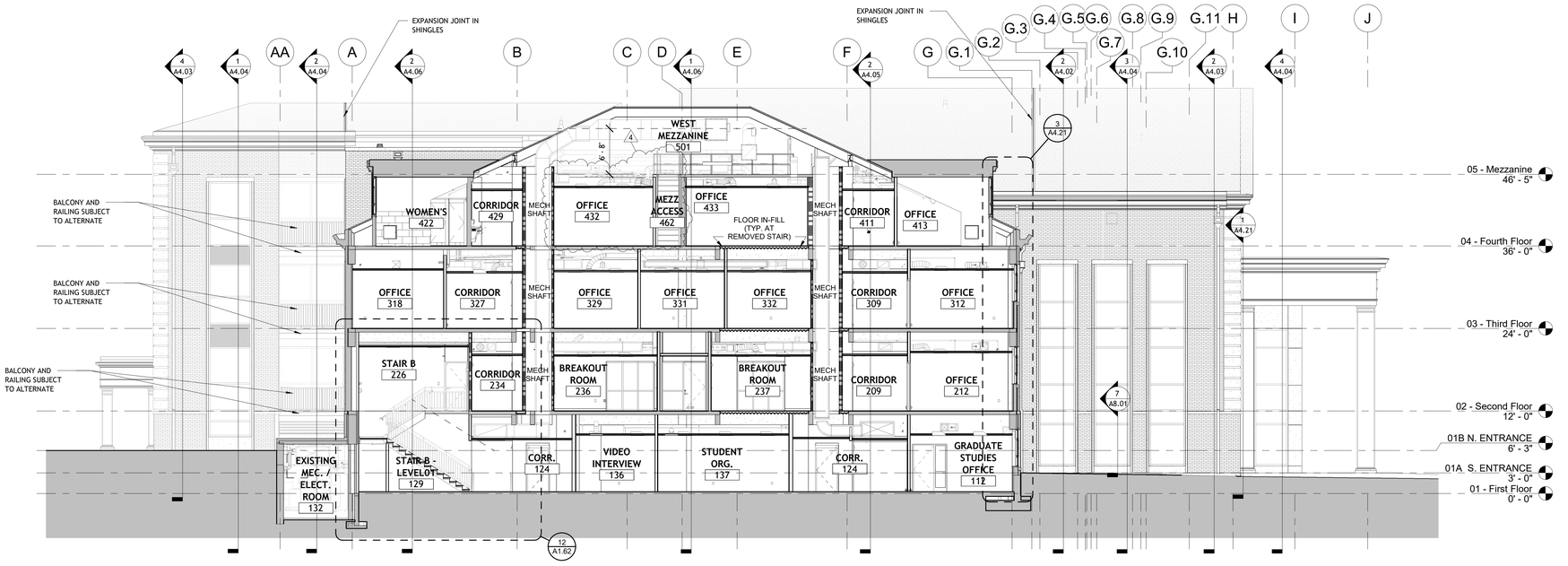
SHEET TITLE
EXTERIOR ELEVATIONS

DRAWN
CWD

REVIEW
KAC

A3.02

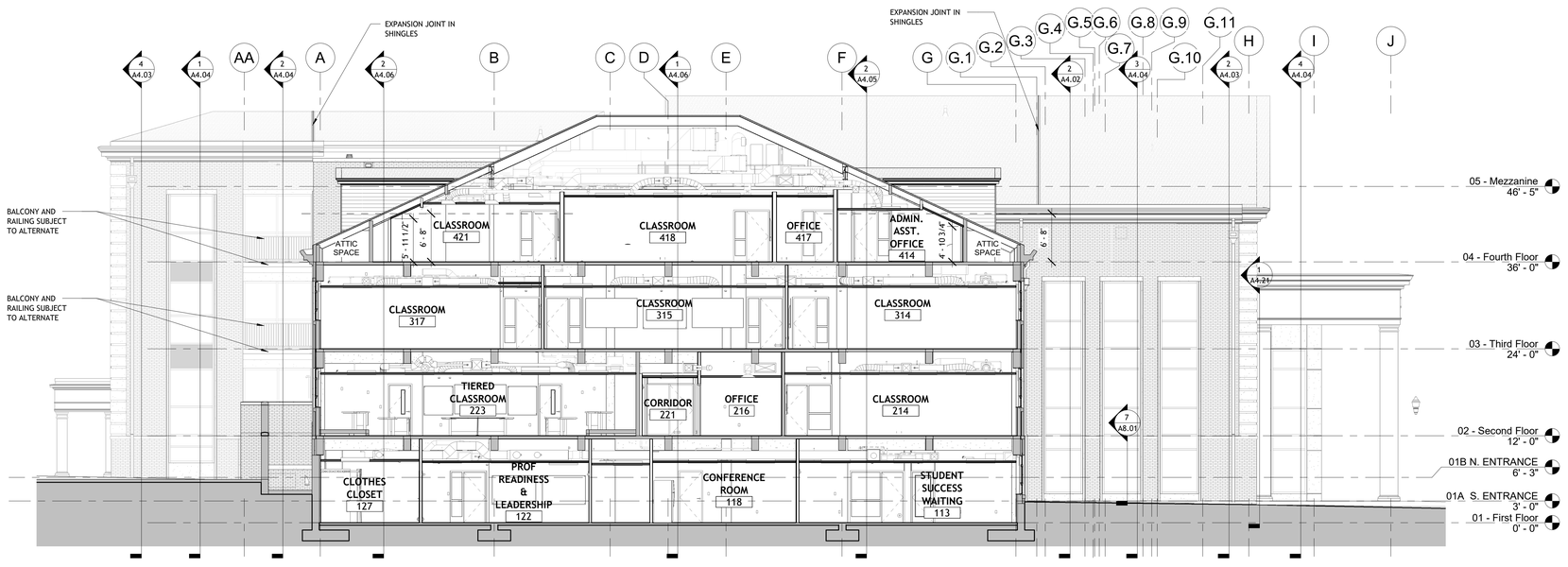
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BUILDING SECTION 1

1/8" = 1'-0"

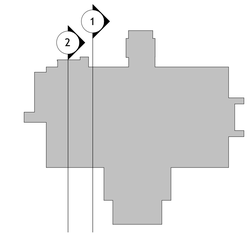
0 1'-2" 4' 8'



BUILDING SECTION 2

1/8" = 1'-0"

0 1'-2" 4' 8'



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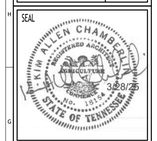
PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION COOKEVILLE, TN

OWNER TENNESSEE TECH. UNIVERSITY

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

SHEET TITLE BUILDING SECTIONS

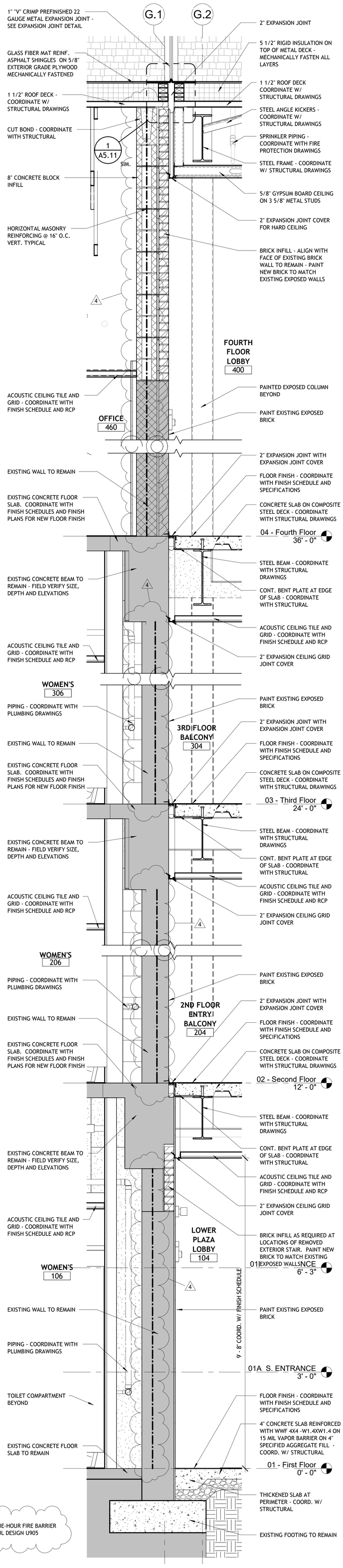
DRAWN CWD

REVIEW KAC

A4.01

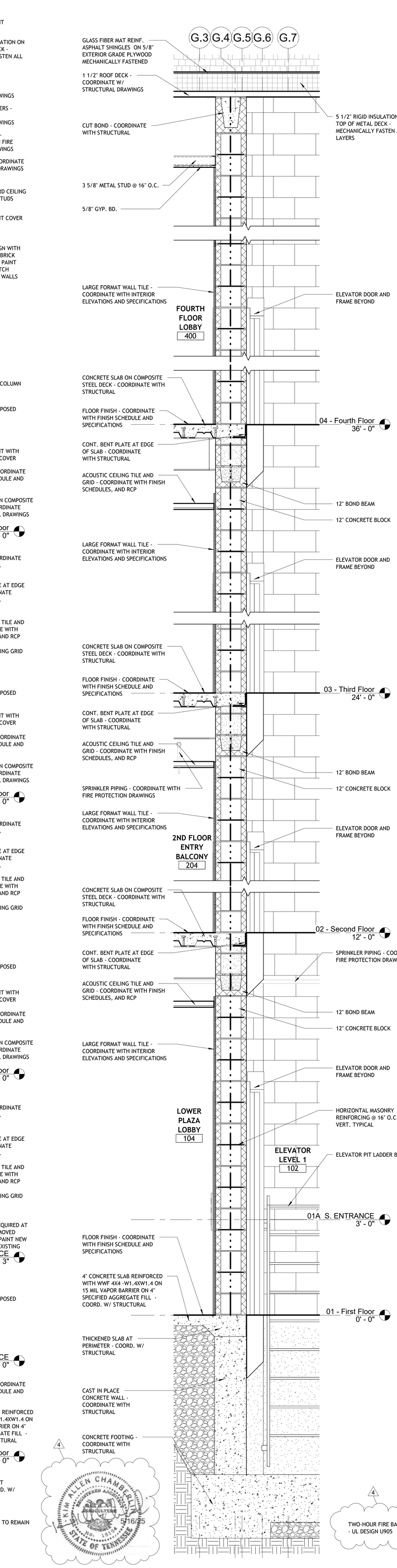
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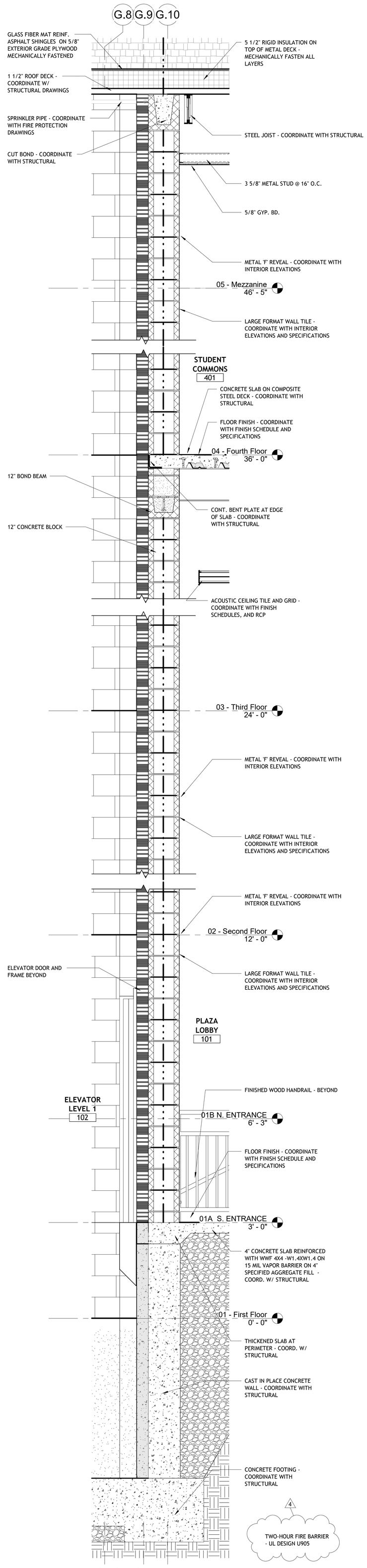
WALL SECTION 1

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 3

3/4" = 1'-0"

JOB NO.	ISSUE DATE	SHEET TITLE	DRAWN	REVIEW
22025	3-28-25	WALL SECTIONS	CWD	KAC

A4.11

NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

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KIM ALLEN CHAMBERLIN · REGISTERED ARCHITECT · AGRICULTURE · COMMERCE · NO. 18154 · STATE OF TENNESSEE · 5/16/25

PROJECT

JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

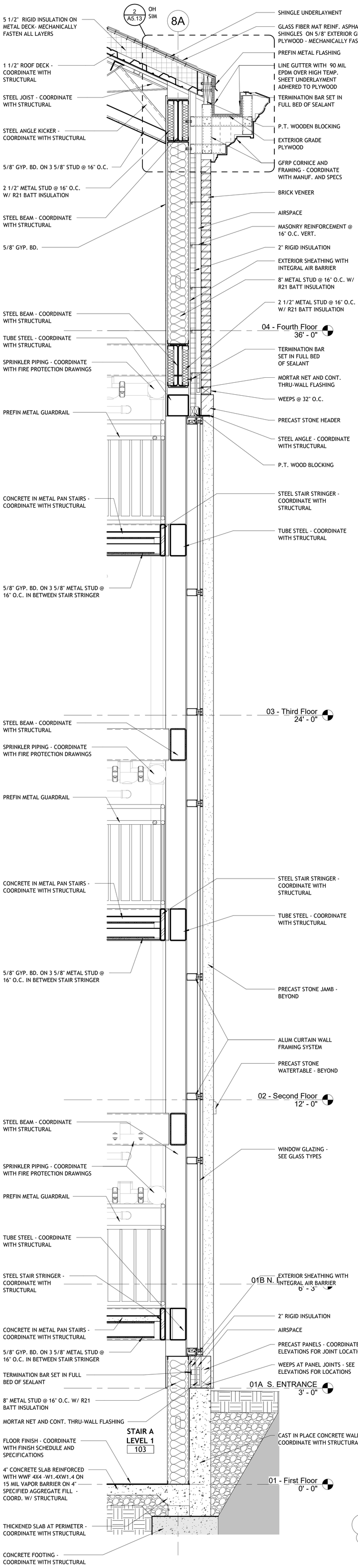
OWNER: TENNESSEE TECH. UNIVERSITY
LOCATION: COOKEVILLE, TN

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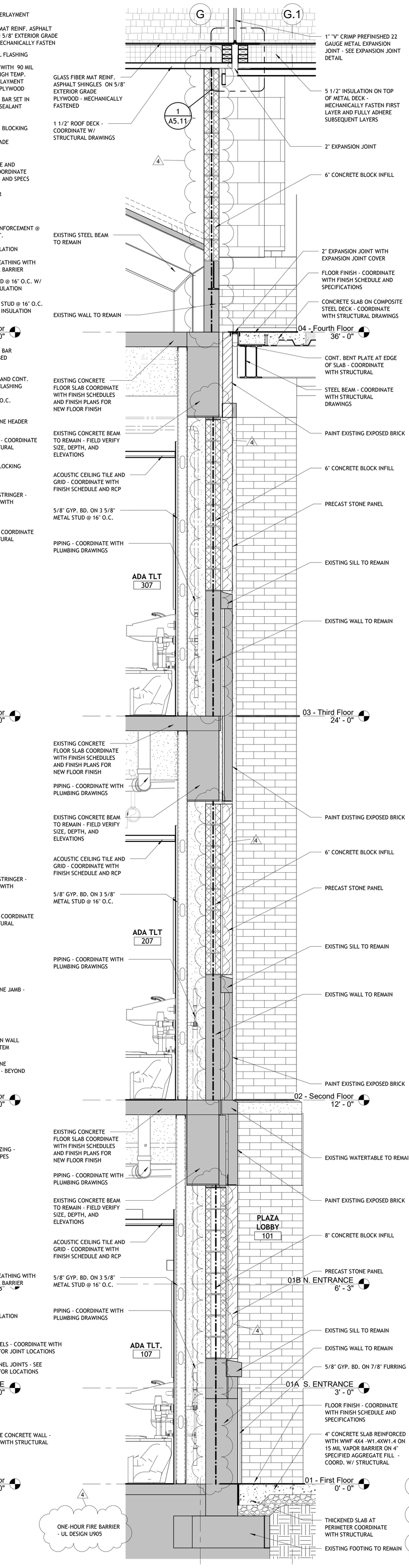
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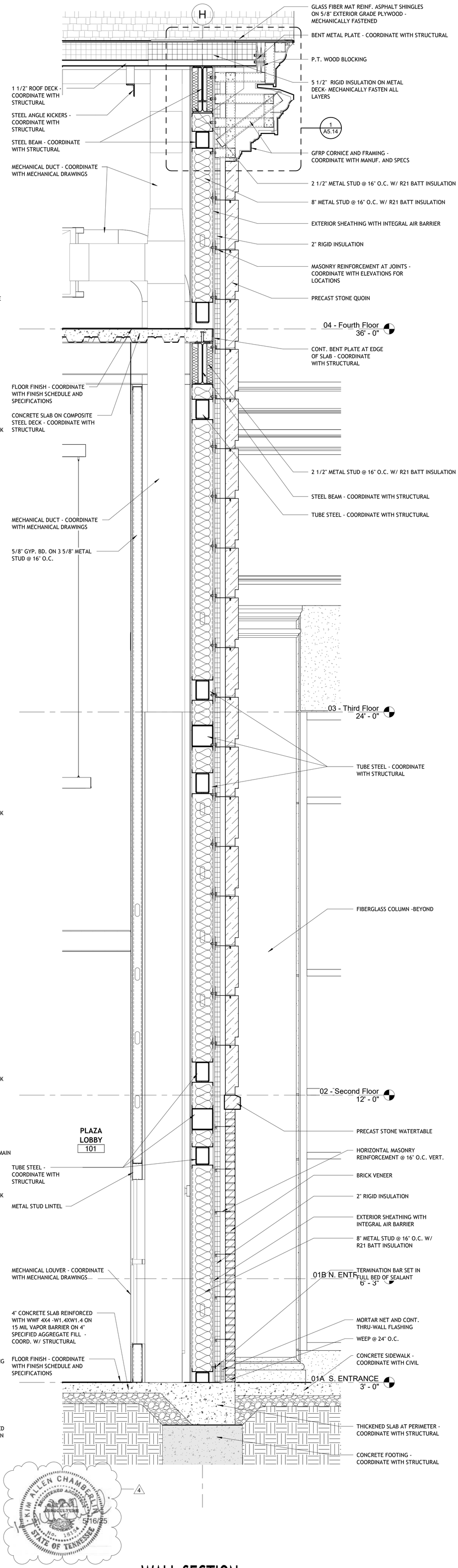
WALL SECTION 1

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 3

3/4" = 1'-0"

JOB NO.	ISSUE DATE	SHEET TITLE	DRAWN	REVIEW
22025	3.28.25	WALL SECTIONS	CWD	KAC

A4.13

NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

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REGISTERED ARCHITECT
AGRICULTURE
COMMERCE
No. 18154
STATE OF TENNESSEE
3.28.25

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

OWNER
TENNESSEE TECH. UNIVERSITY

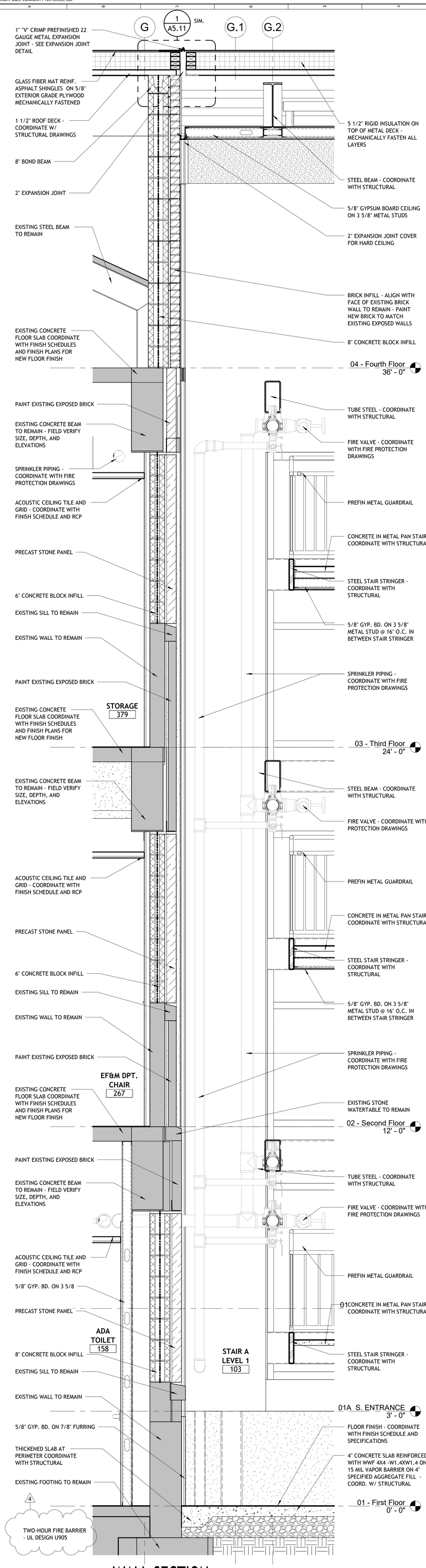
LOCATION
COOKEVILLE, TN

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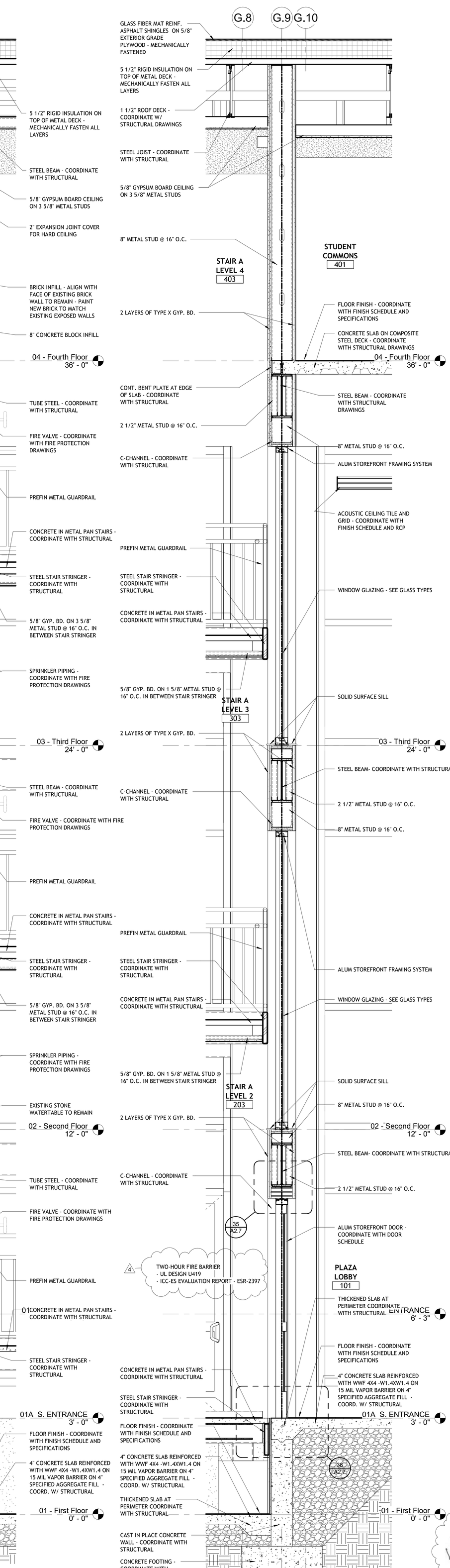
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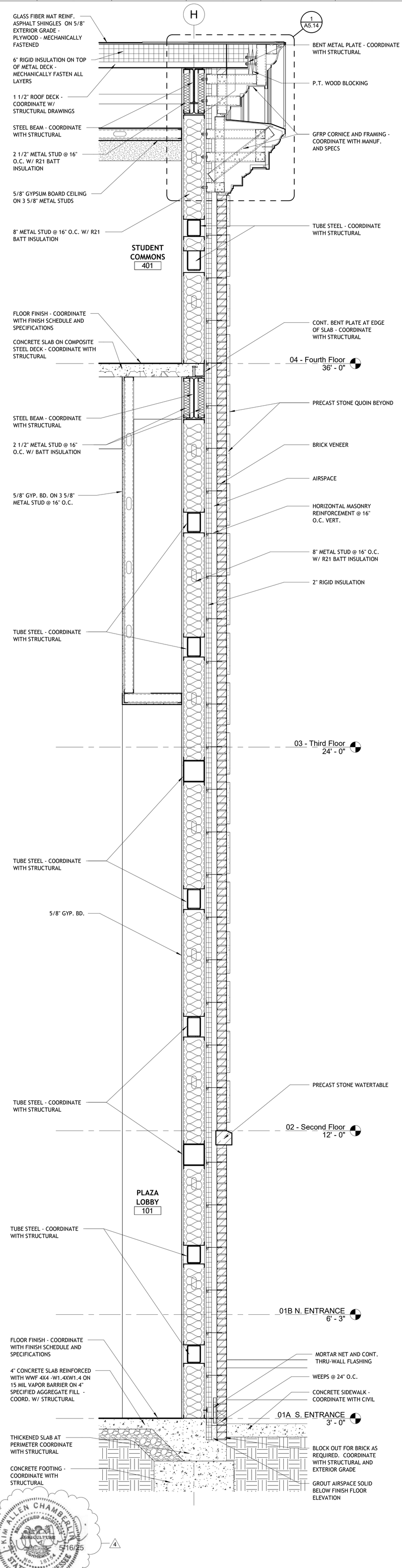
WALL SECTION 1

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 3

3/4" = 1'-0"

JOB NO.	22025
ISSUE DATE	3-28-25
SHEET TITLE	WALL SECTIONS
DRAWN	CWD
REVIEW	KAC
	A4.14

NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

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REGISTERED ARCHITECT
AGRICULTURE
COMMERCE
No. 18154
STATE OF TENNESSEE
5/16/25

PROJECT

JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

OWNER
TENNESSEE TECH. UNIVERSITY

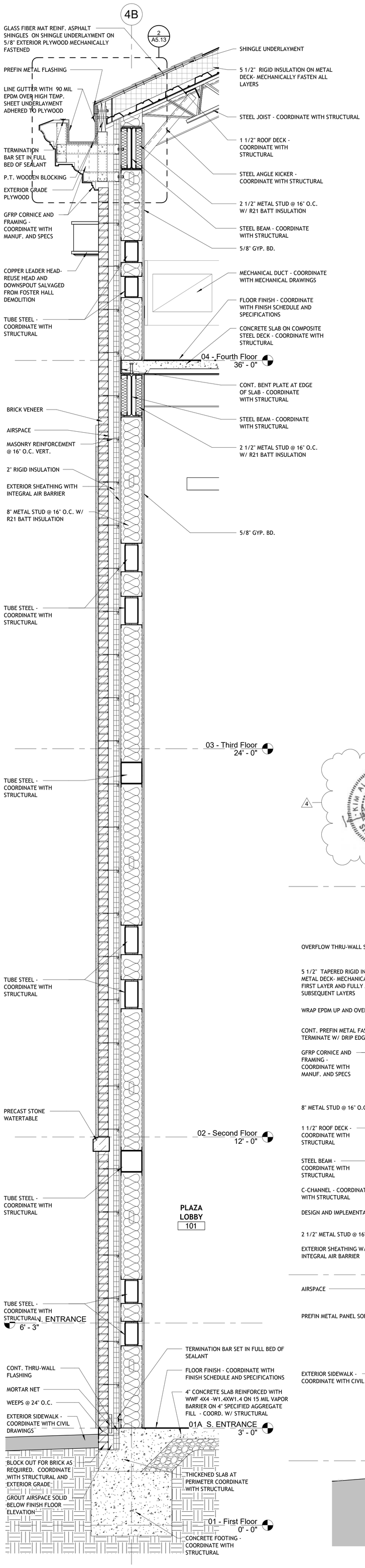
LOCATION
COOKEVILLE, TN

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Ph. (931) 403-1000, www.wocc.com

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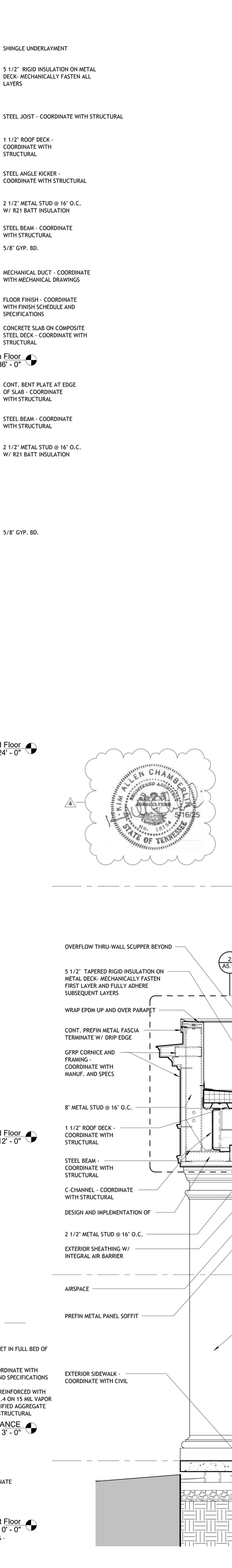
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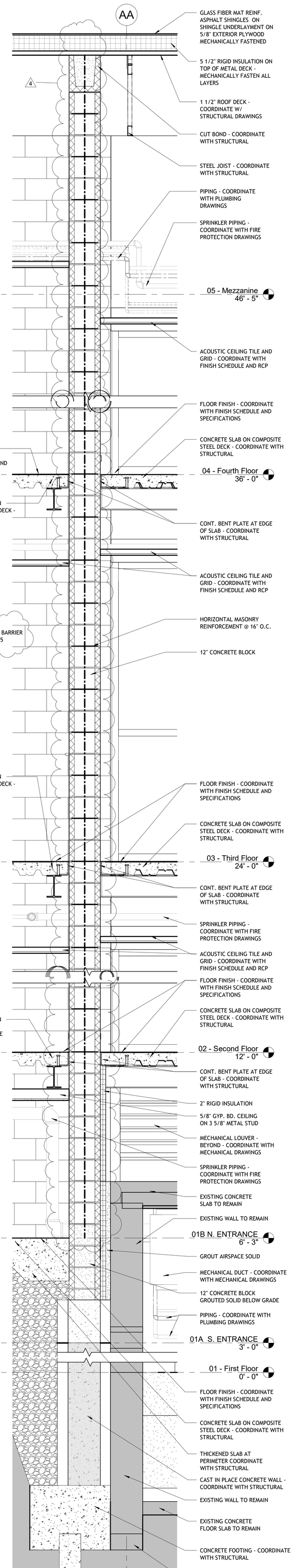
WALL SECTION 1

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 3

3/4" = 1'-0"

DRAWN	REVIEW
CWD	KAC

SHEET TITLE: WALL SECTIONS

ISSUE DATE: 3-28-25

JOB NO.: 22025

A4.15

NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

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PROJECT

JOHNSON HALL RENOVATION - PKG 3

JOHNSON HALL RENOVATION & FOSTER DEMOLITION

SBC Nº 364/011-04-2022CM

OWNER: TENNESSEE TECH. UNIVERSITY

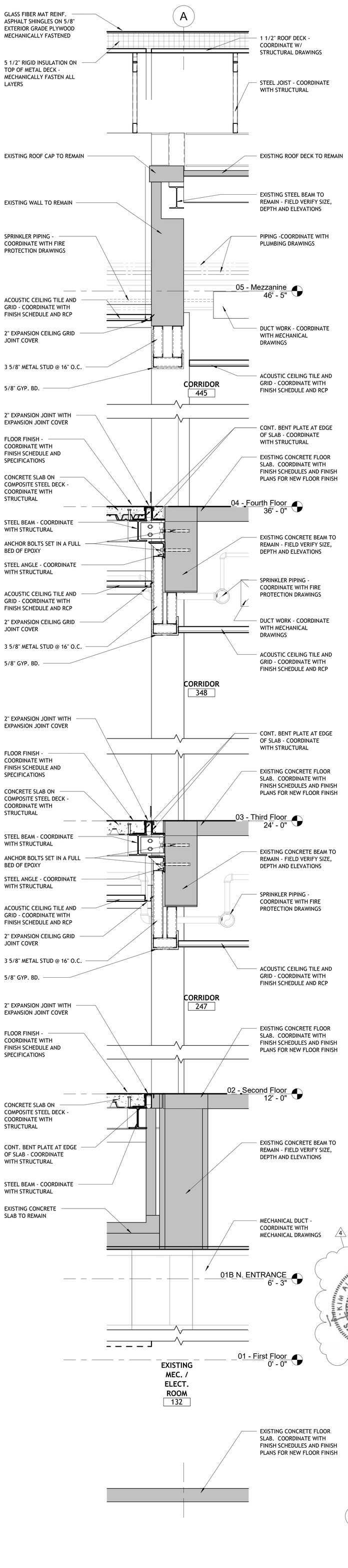
LOCATION: COOKEVILLE, TN

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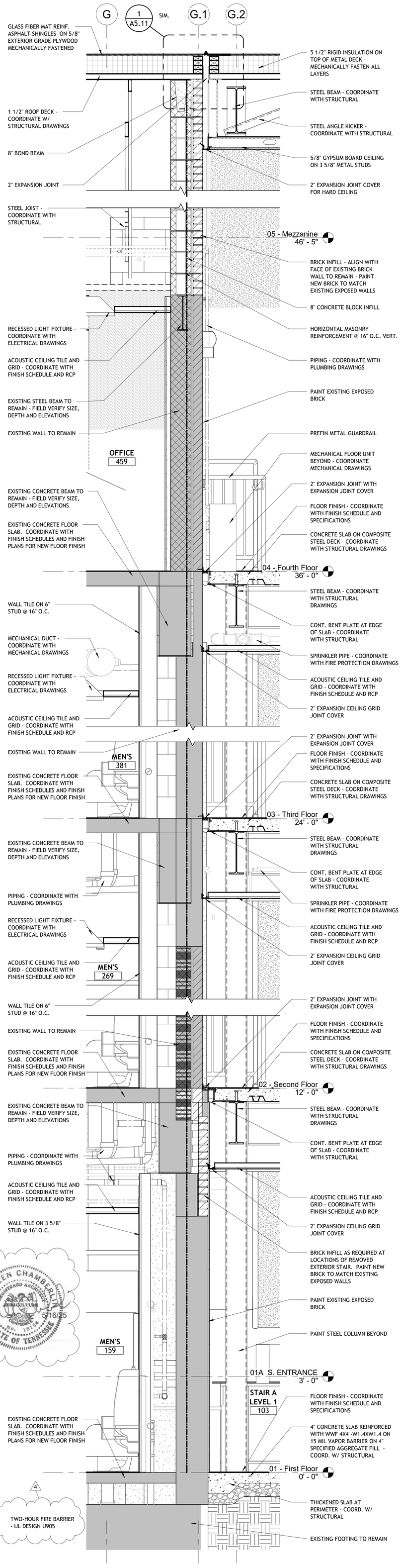
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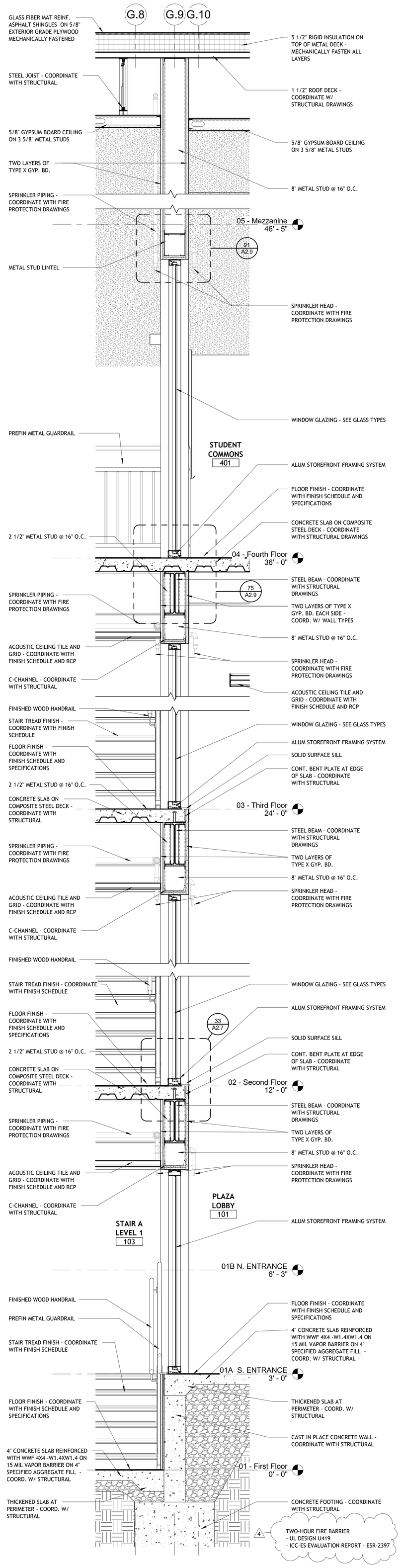
WALL SECTION 1

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 3

3/4" = 1'-0"

JOB NO.	22025
ISSUE DATE	3-28-25
SHEET TITLE	WALL SECTIONS
DRAWN	CWD
REVIEW	KAC
	A4.16

NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

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KIM ALLEN CHAMBERLIN REGISTERED ARCHITECT AGRICULTURE CENTER No. 19114 STATE OF TENNESSEE 5/16/25

PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

OWNER
TENNESSEE TECH. UNIVERSITY

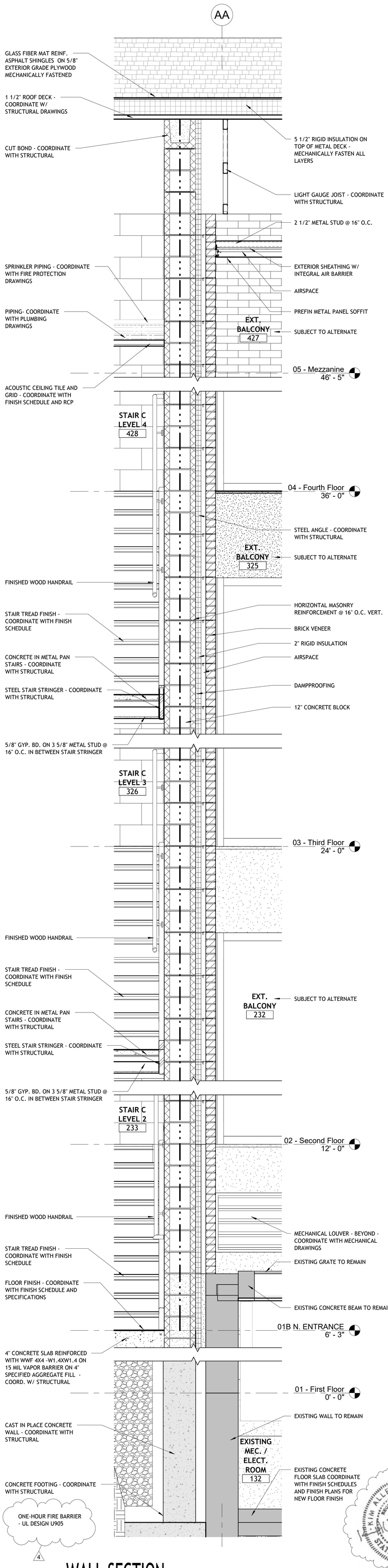
LOCATION
COOKEVILLE, TN

W&O Construction
150 Construction Drive Livingston, TN 38570
Ph. (931) 403-1000 www.wocc.com

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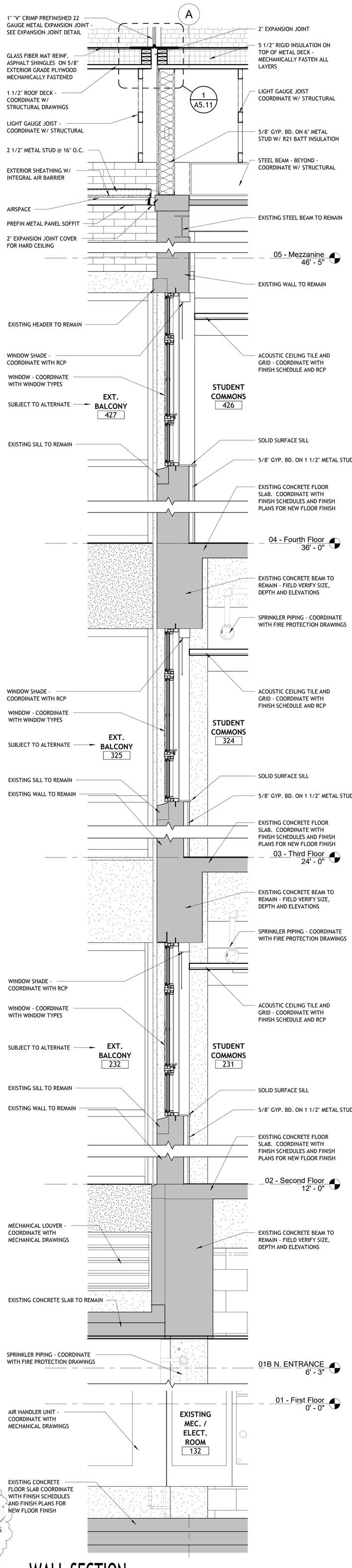
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WALL SECTION 1

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"

DRAWN	JOB NO.
CWD	22025
REVIEW	ISSUE DATE
KAC	3-28-25
SHEET TITLE	
WALL SECTIONS	
A4.22	

NO.	DESCRIPTION	DATE
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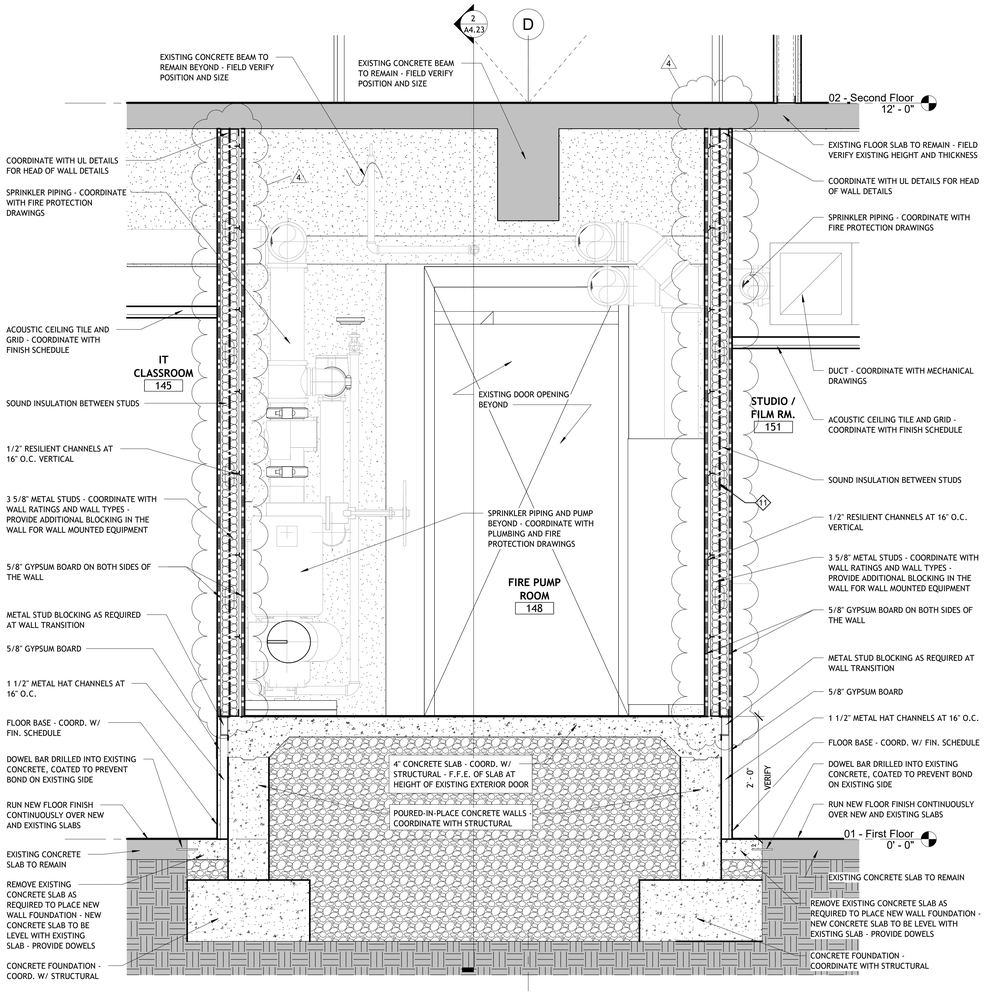
PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

OWNER: TENNESSEE TECH. UNIVERSITY
LOCATION: COOKEVILLE, TN

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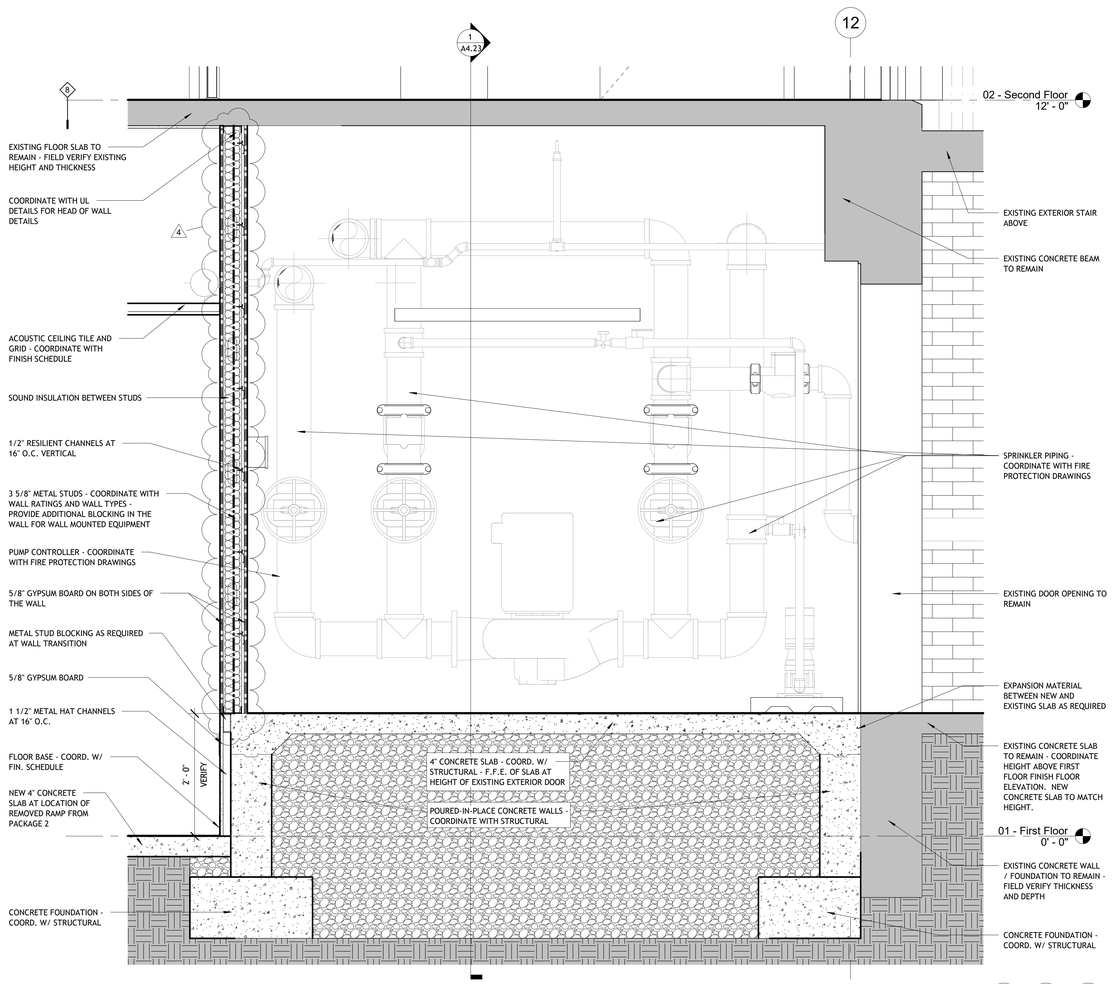
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Ph. (865) 637-0890, www.communitytectonics.com



PUMP ROOM SECTION 1

1" = 1'-0"

4 ONE-HOUR FIRE BARRIER - UL DESIGN U419



PUMP ROOM SECTION 2

1" = 1'-0"

4 ONE-HOUR FIRE BARRIER - UL DESIGN U419

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIRK ALLEN CHAMBERLIN
REGISTERED ARCHITECT
No. 18114
STATE OF TENNESSEE
3/28/25

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

KIRK ALLEN CHAMBERLIN
REGISTERED ARCHITECT
No. 18114
STATE OF TENNESSEE
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JOB NO.
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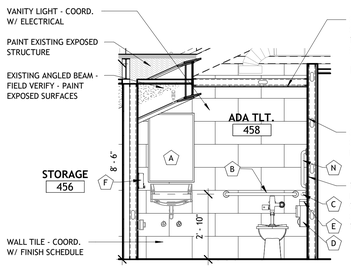
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WALL SECTIONS

DRAWN
CWD

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KAC

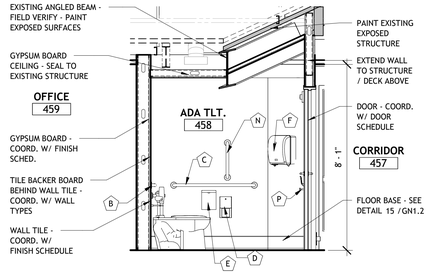
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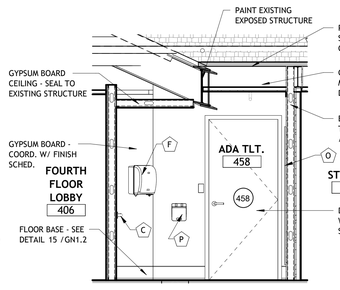
4TH FLOOR RESTROOM 1

3/8" = 1'-0"



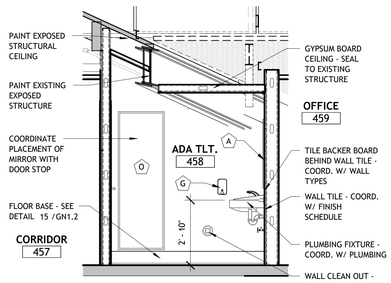
4TH FLOOR RESTROOM 2

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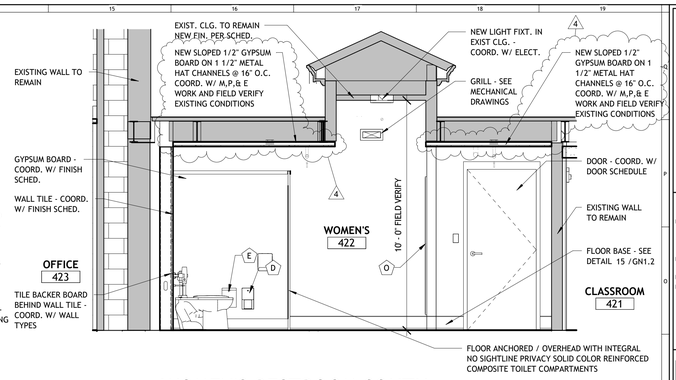
4TH FLOOR RESTROOM 3

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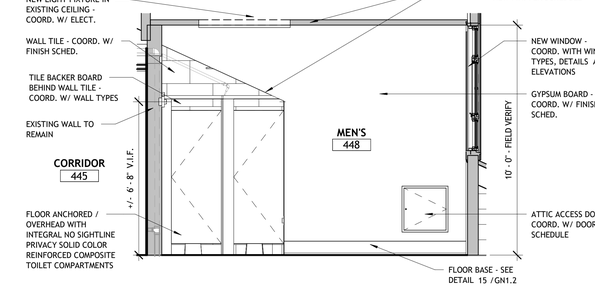
4TH FLOOR RESTROOM 4

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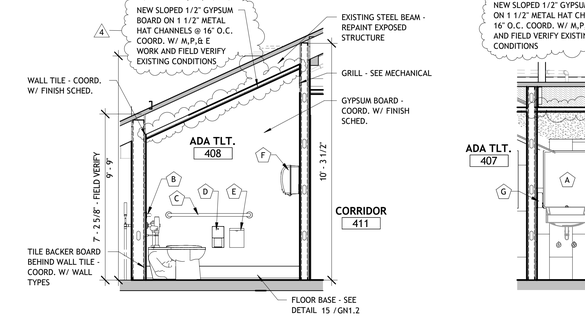
WOMEN'S RESTROOM SOUTH 5

3/8" = 1'-0"



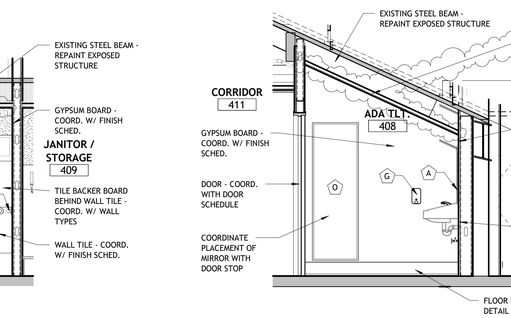
WOMEN'S RESTROOM EAST 6

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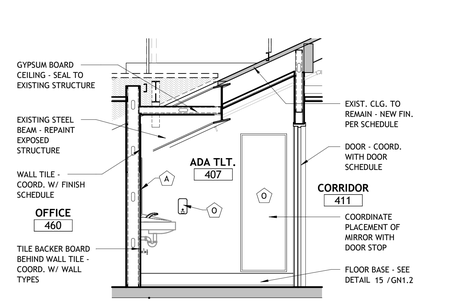
WOMEN'S RESTROOM NORTH 7

3/8" = 1'-0"



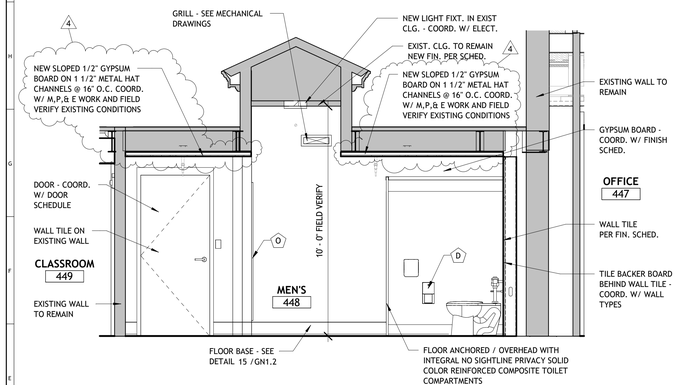
WOMEN'S RESTROOM WEST 8

3/8" = 1'-0"



4TH FLOOR - RESTROOM 16

3/8" = 1'-0"



MEN'S RESTROOM SOUTH 9

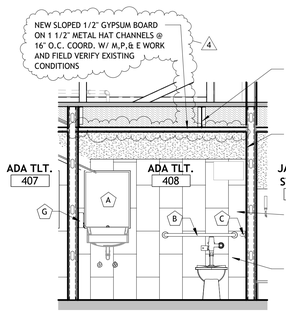
3/8" = 1'-0"

MEN'S RESTROOM EAST 10

3/8" = 1'-0"

MEN'S RESTROOM NORTH 11

3/8" = 1'-0"



WOMEN'S RESTROOM WEST 12

3/8" = 1'-0"

4TH FLOOR TOILET - 408 WEST 13

3/8" = 1'-0"

4TH FLOOR TOILET- 408 SOUTH 14

3/8" = 1'-0"

4TH FLOOR TOILET - 408 EAST 15

3/8" = 1'-0"

TOILET ACCESSORIES LEGEND

- (A) MIRROR - BOBRICK B-290 24" X 36" - REFER TO ELEVATIONS FOR MOUNTING.
- (B) 36" GRAB BAR - BOBRICK B6806X36 MOUNT CENTERLINE 34" A.F.F. - SEE MOUNTING HEIGHT DETAILS ON GN1.1.
- (C) 42" GRAB BAR - BOBRICK B6806X42 MOUNT CENTERLINE 34" A.F.F. SEE MOUNTING HEIGHT DETAILS ON GN1.1.
- (D) JUMBO TOILET PAPER DISPENSER - GEORGIA-PACIFIC JUMBO SR. BATHROOM TISSUE DISPENSER 736004 - OWNER PROVIDED - CONTRACTOR INSTALLED
- (E) SURFACE MOUNTED SANITARY NAPKIN DISPOSAL - BOBRICK B270 - SEE MOUNTING HEIGHT DETAILS.
- (F) PAPER TOWEL DISPENSER - VON DREHLE HANDS-FREE PULL DOWN TOWEL DISPENSER 736990 - OWNER PROVIDED - CONTRACTOR INSTALLED
- (G) SOAP DISPENSER - SPARTAN LITE-N FOAMY SOAP DISPENSER 725751 - OWNER PROVIDED - CONTRACTOR INSTALLED
- (H) SURFACE MOUNTED CHROME PLATED HOOK AND BUMPER - BRADLEY 915 - MOUNT AT 60" A.F.F. - MOUNT BACK OF STALL DOOR OR AS INDICATED
- (J) MOP HOLDER - BOBRICK B223 X 24 - MOUNTED PER MANUFACTURER'S WRITTEN INSTRUCTION
- (K) 12" DEEP WALL MOUNTED METAL SHELVES ON SHELVING STANDARDS - 4 TIERS - BY OWNER
- (M) PROVIDE STRUCTURAL STEEL IN WALL RUNNING FROM STRUCTURAL FLOOR TO STRUCTURAL DECK ABOVE FOR WALL MOUNTED ACCESSIBILITY LIFT. PROVIDE 110V GFCI OUTLET FOR LIFT POWER. LIFT PROVIDED AND INSTALLED BY OWNER.
- (N) 18" VERTICAL GRAB BAR - BOBRICK B6806X18 MOUNT CENTERLINE 40" FROM WALL - SEE MOUNTING HEIGHT DETAILS ON GN1.1.
- (O) MIRROR - BOBRICK B-290 24" X 72". MOUNT BOTTOM OF MIRROR AT 8' A.F.F.
- (P) STAINLESS STEEL, SATIN FINISH MOBILE DEVICE HOLDER SIMILAR TO BOBRICK KLUTCH B-635 - MOUNT TOP OF HOLDER 38" TO 48" ABOVE FINISHED FLOOR.

- SEE SPECIFICATIONS FOR APPROVED EQUAL MANUFACTURERS FOR EACH PRODUCT LISTED ABOVE
- SEE MOUNTING HEIGHT DETAILS ON GN1.1

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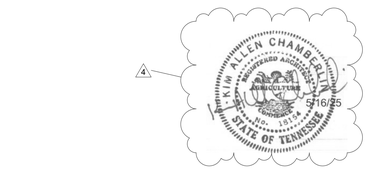
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JOB NO. 22025

ISSUE DATE 3-28-25

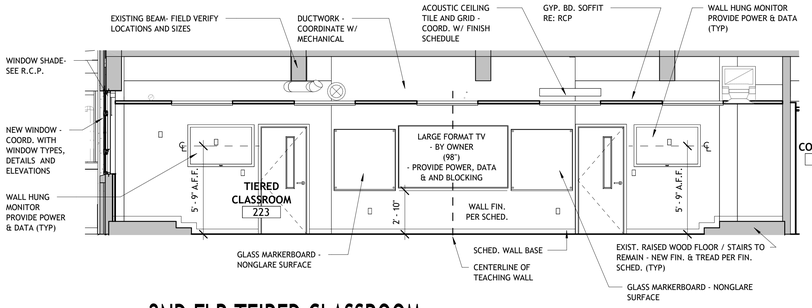
SHEET TITLE
INTERIOR ELEVATIONS

DRAWN CWD

REVIEW KAC

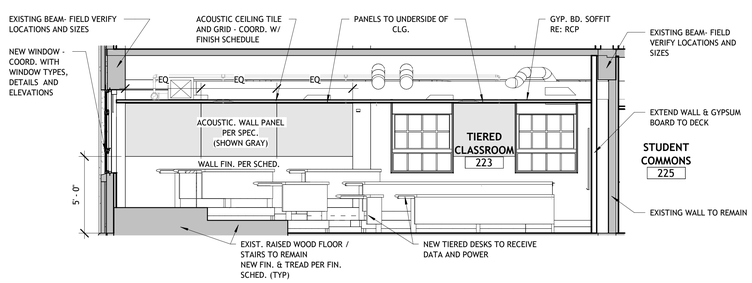
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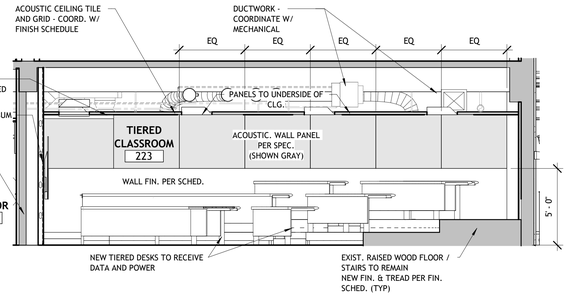
2ND FLR TEIRED CLASSROOM 1

1/4" = 1'-0"



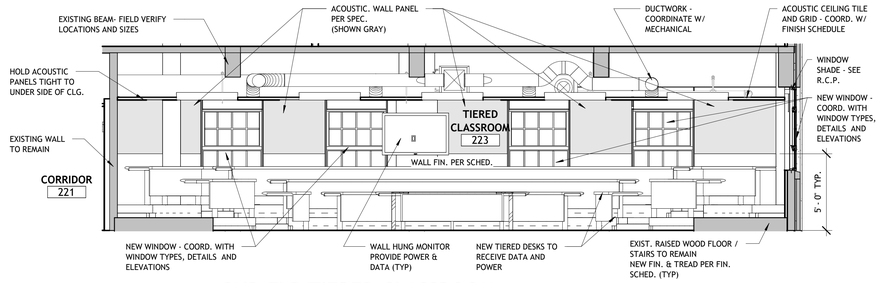
2ND FLR TIERED CLASSROOM 2

1/4" = 1'-0"



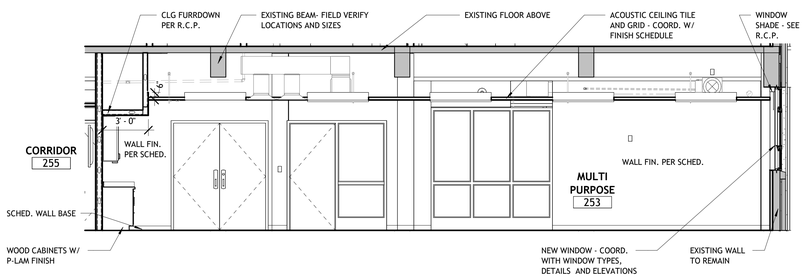
2ND FLR TIERED CLASSROOM 3

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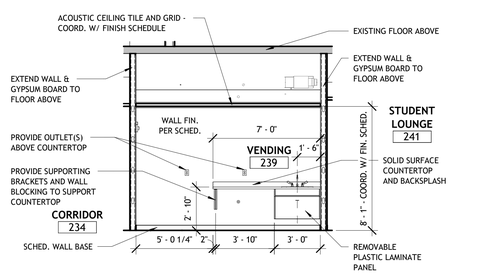
2ND FLR TIERED CLASSROOM 4

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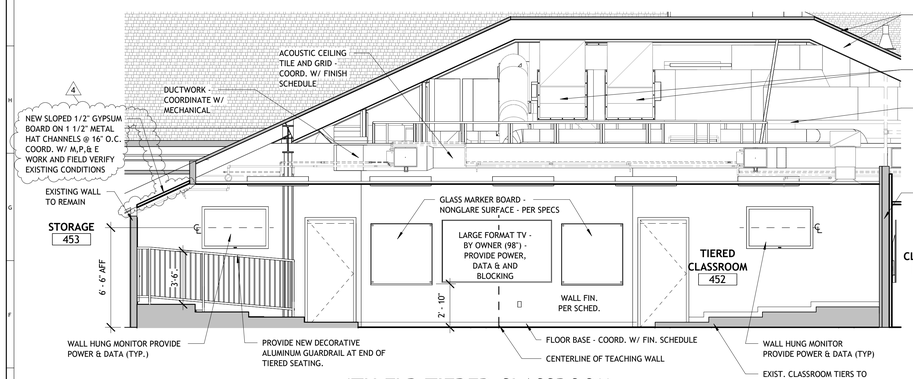
MULTIPURPOSE ROOM 5

1/4" = 1'-0"



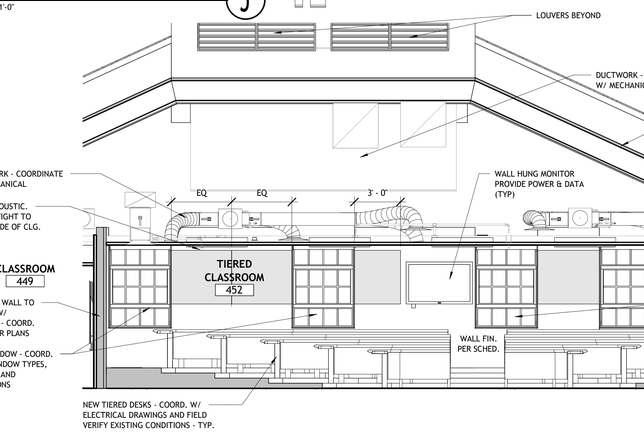
VENDING KITCHENETTE 6

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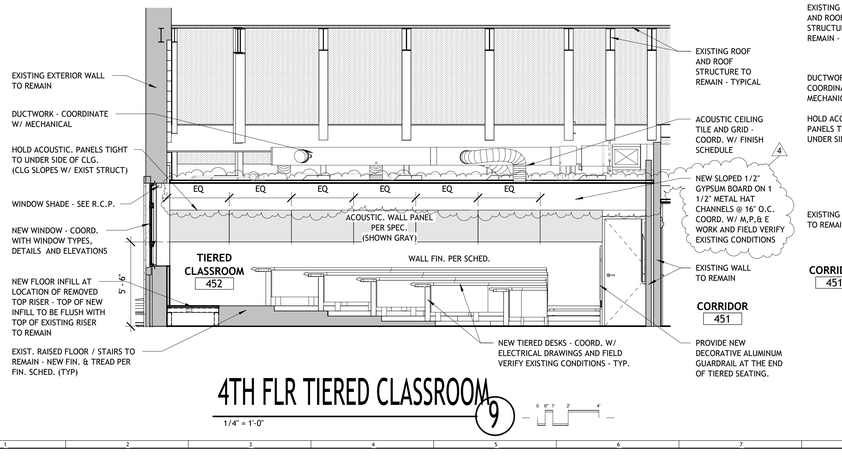
4TH FLR TIERED CLASSROOM 7

1/4" = 1'-0"



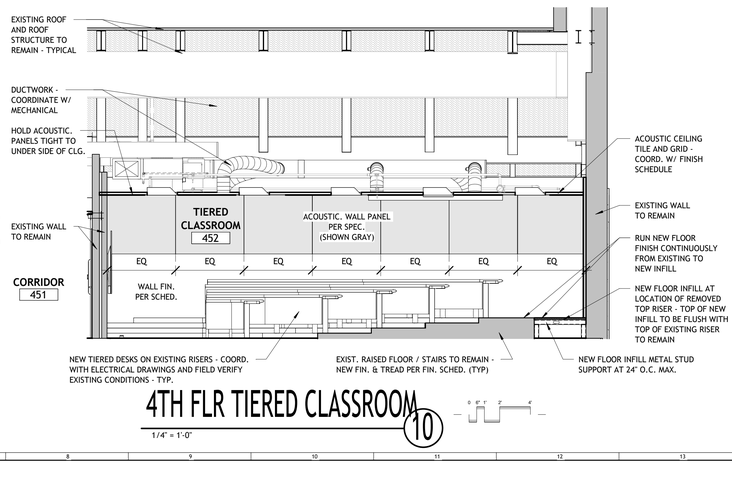
4TH FLR TIERED CLASSROOM 8

1/4" = 1'-0"



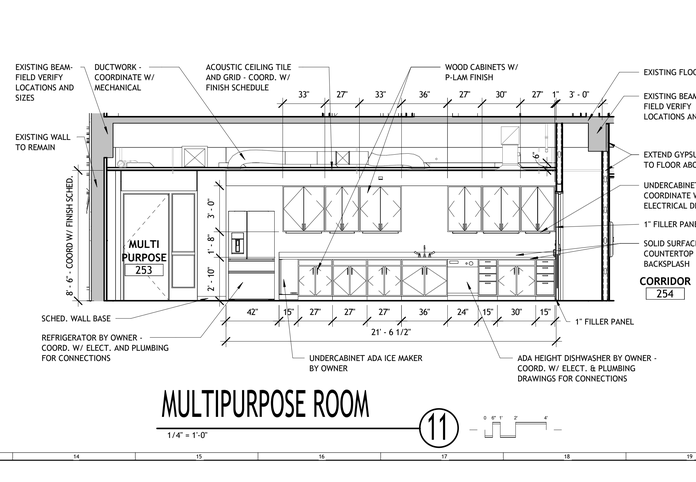
4TH FLR TIERED CLASSROOM 9

1/4" = 1'-0"



4TH FLR TIERED CLASSROOM 10

1/4" = 1'-0"



MULTIPURPOSE ROOM 11

1/4" = 1'-0"

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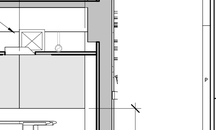
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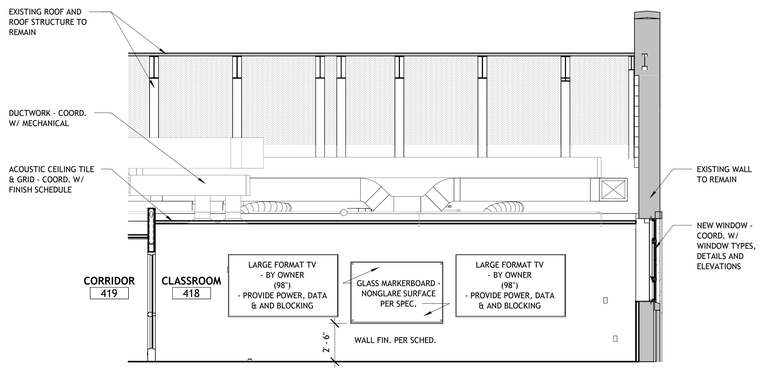
SHEET TITLE
INTERIOR ELEVATIONS

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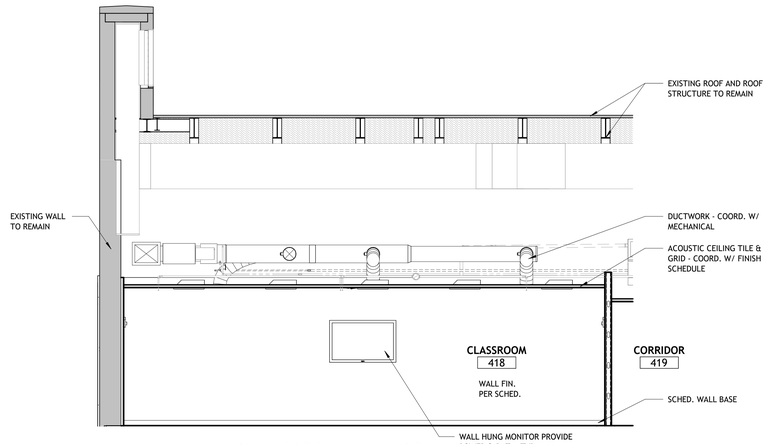
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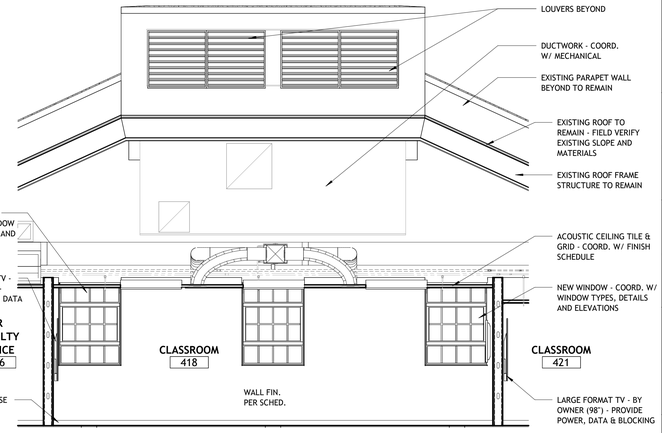
INTERIOR ELEVATION 1

1/4" = 1'-0"



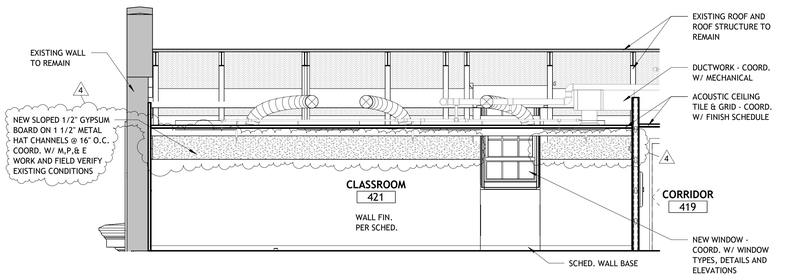
INTERIOR ELEVATION 2

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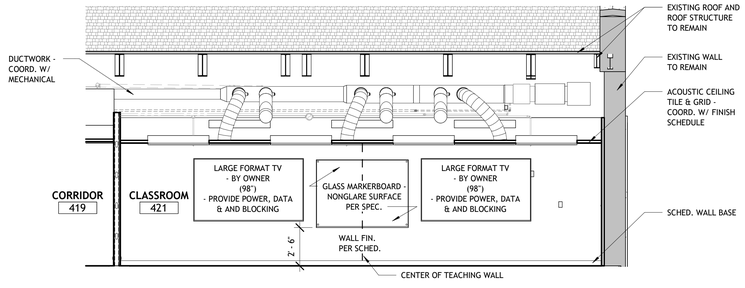
INTERIOR ELEVATION 3

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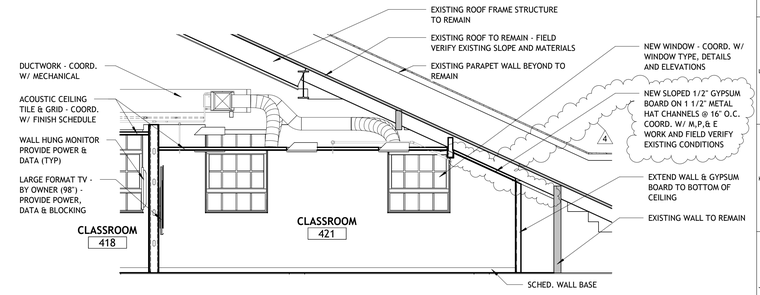
INTERIOR ELEVATION 4

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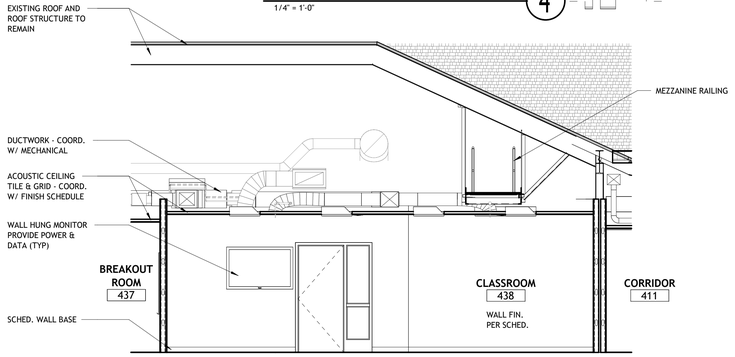
INTERIOR ELEVATION 5

1/4" = 1'-0"



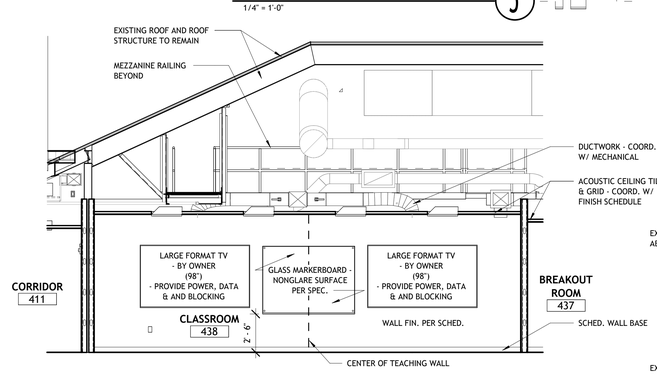
INTERIOR ELEVATION 6

1/4" = 1'-0"



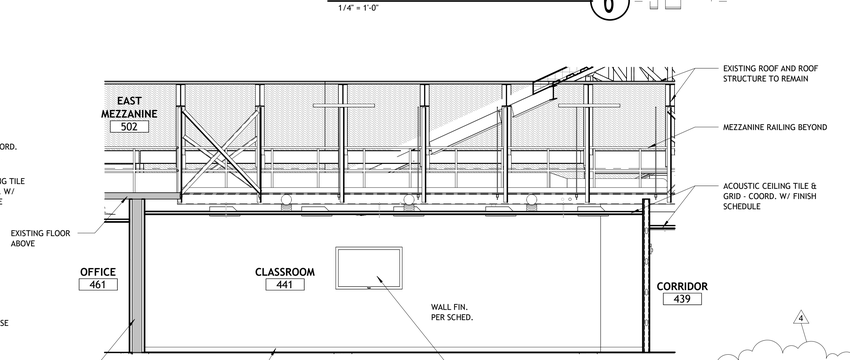
INTERIOR ELEVATION 7

1/4" = 1'-0"



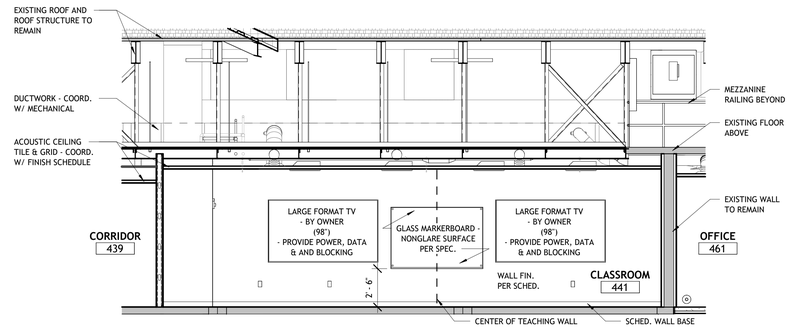
INTERIOR ELEVATION 8

1/4" = 1'-0"



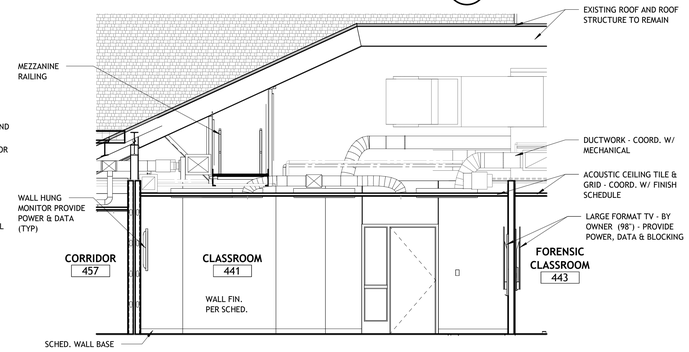
INTERIOR ELEVATION 9

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INTERIOR ELEVATIONS 10

1/4" = 1'-0"



INTERIOR ELEVATION 11

1/4" = 1'-0"

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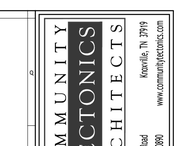
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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL



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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25



JOB NO.
22025

ISSUE DATE
3-28-25

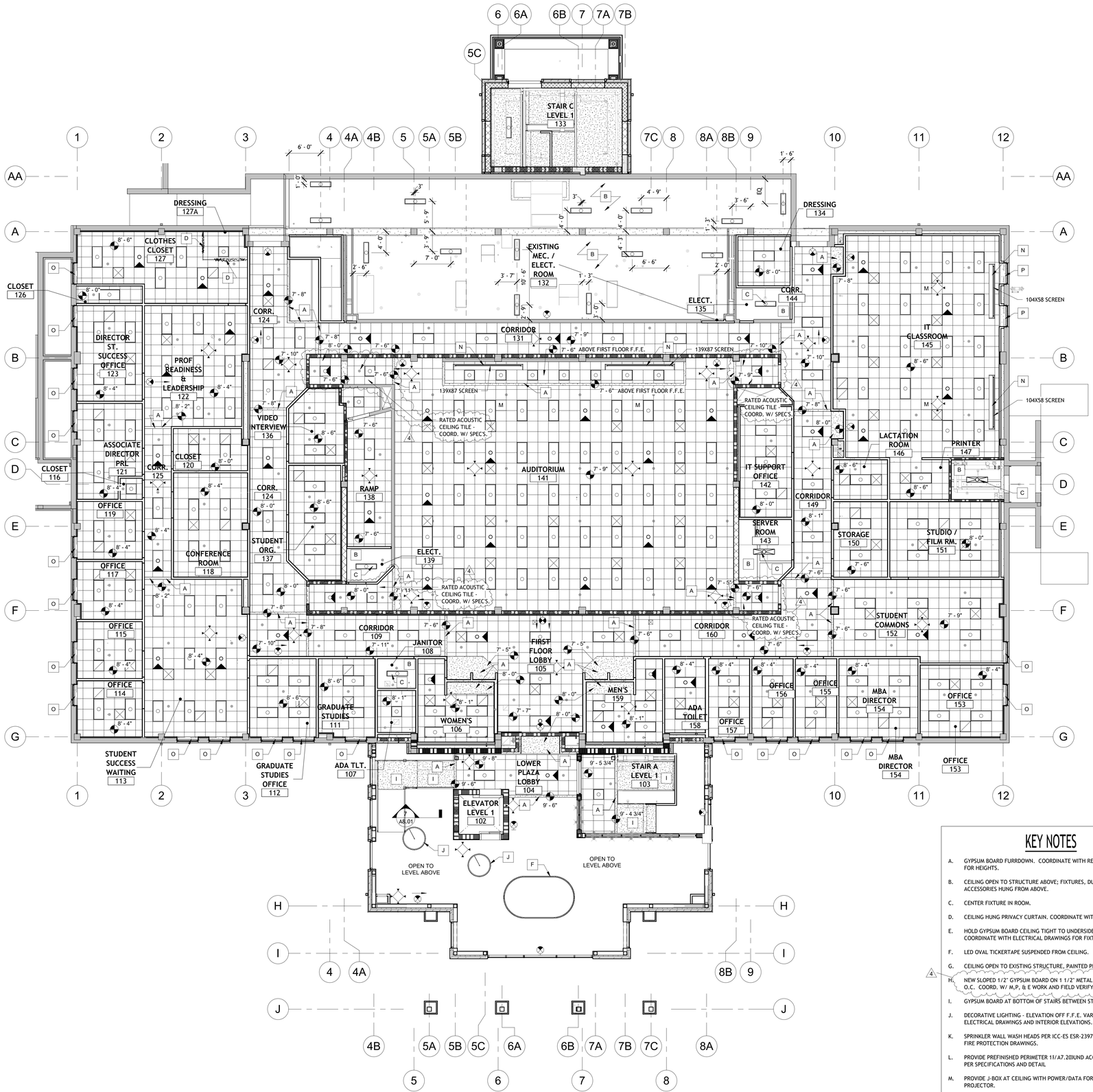
SHEET TITLE
INTERIOR ELEVATIONS

DRAWN
CWD

REVIEW
KAC

A6.09

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REFLECTED CEILING PLAN - 1st FLR

1/8" = 1'-0"

PLAN NORTH TRUE NORTH

LEGEND OF SYMBOLS

- 2' x 2' LAY-IN CEILING GRID
- 2' x 2' LAY-IN CEILING GRID W/ 4" ACOUSTICAL CEILING EDGE TRIM - SEE SPEC SECTION 09 53 00
- GYPSUM BOARD CEILING
- CLG OPEN TO EXIST. TECTUM STRUCT. DECK TO REMAIN EXPOSED
- 2' x 4' RECESSED LIGHT FIXTURE
- 2' x 2' RECESSED LIGHT FIXTURE
- 2' x 4' RECESSED LIGHT FIXTURE - EMERGENCY
- 2' x 2' RECESSED LIGHT FIXTURE - EMERGENCY
- 1' x 4' SURFACE MOUNT OR SUSPENDED LIGHT FIXTURE
- 2' X 4' SURFACE MOUNT OR SUSPENDED LIGHT FIXTURE
- RECESSED LUMINAIRE
- SURFACE MOUNT OR SUSPENDED LUMINAIRE
- WALL MOUNTED VANITY FIXTURE
- WALL MOUNTED LINEAR SCONCE
- EXIT SIGN - SINGLE OR DOUBLE FACE, WALL OR CLG. MOUNTED, COORDINATE WITH ELECTRICAL DRAWINGS. DIRECTIONAL ARROWS SHALL BE PROVIDED AS SHOWN. EXIT SIGN SHALL BE ON THE LIFE-SAFETY CIRCUIT OF THE GENERATOR FOR OPERATION DURING LOSS OF NORMAL BUILDING POWER.
- SUPPLY DIFFUSER
- EF EXHAUST FAN
- RETURN GRILLE
- EH ELECTRIC HEATER
- OCCUPANCY SENSOR
- SMOKE DETECTOR (CEILING MOUNTED)

GENERAL NOTES

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2. REFER TO FP1.1 THROUGH FP1.5 FOR SPRINKLER HEAD LOCATIONS. SPRINKLER HEADS ARE TO BE CENTERED WITHIN CEILING TILES - TYPICAL.
3. PROVIDE ROLLER SHADES AT WINDOWS AS NOTED ON PLANS.

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

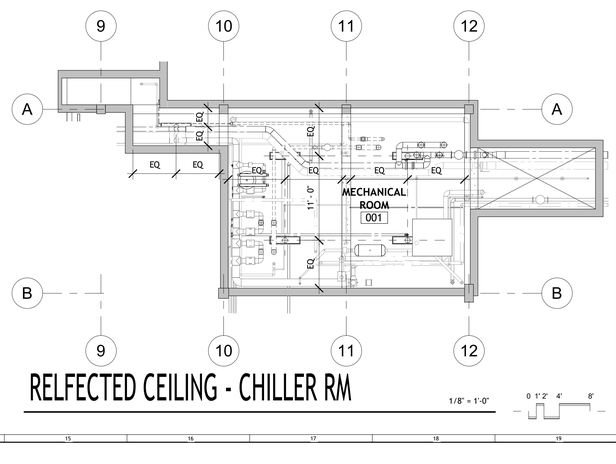
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B. CEILING OPEN TO STRUCTURE ABOVE; FIXTURES, DUCTWORK & CEILING ACCESSORIES HUNG FROM ABOVE.
C. CENTER FIXTURE IN ROOM.
D. CEILING HUNG PRIVACY CURTAIN. COORDINATE WITH SPECIFICATIONS.
E. HOLD GYPSUM BOARD CEILING TIGHT TO UNDERSIDE OF STRUCTURE. COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURES.
F. LED OVAL TICKERTAPE SUSPENDED FROM CEILING.
G. CEILING OPEN TO EXISTING STRUCTURE, PAINTED PER FINISH SCHEDULE.
4 H. NEW SLOPED 1/2" GYPSUM BOARD ON 1 1/2" METAL HAT CHANNELS @ 16" O.C. COORD. W/ M,P, & E WORK AND FIELD VERIFY EXISTING CONDITIONS.
I. GYPSUM BOARD AT BOTTOM OF STAIRS BETWEEN STAIR STRINGERS.
J. DECORATIVE LIGHTING - ELEVATION OFF F.F.E. VARIES - COORDINATE WITH ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS.
K. SPRINKLER WALL WASH HEADS PER ICC-ES ESR-2397. COORDINATE WITH FIRE PROTECTION DRAWINGS.
L. PROVIDE PREFINISHED PERIMETER 11/A7.20/UND ACOUSTIC CEILING CLOUD PER SPECIFICATIONS AND DETAIL
M. PROVIDE J-BOX AT CEILING WITH POWER/DATA FOR OWNER PROVIDED PROJECTOR.
N. PROVIDE POWER AND CONTROL CONNECTIONS FOR CEILING HUNG PROJECTOR SCREEN. PROJECTOR PROVIDED BY OWNER.
O. WINDOW SHADE- MOUNT TO EXISTING STRUCTURE ABOVE WINDOW
P. DUAL BLACKOUT WINDOW SHADE- MOUNT TO EXISTING STRUCTURE ABOVE WINDOW
Q. 2" EXPANSION JOINT CEILING COVER



RELFECTED CEILING - CHILLER RM

1/8" = 1'-0"

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SEAL
KEVIN ALLEN CHAMBERLAIN
REGISTERED ARCHITECT
AGRICULTURE
No. 16158
STATE OF TENNESSEE
3/28/25

5/16/25

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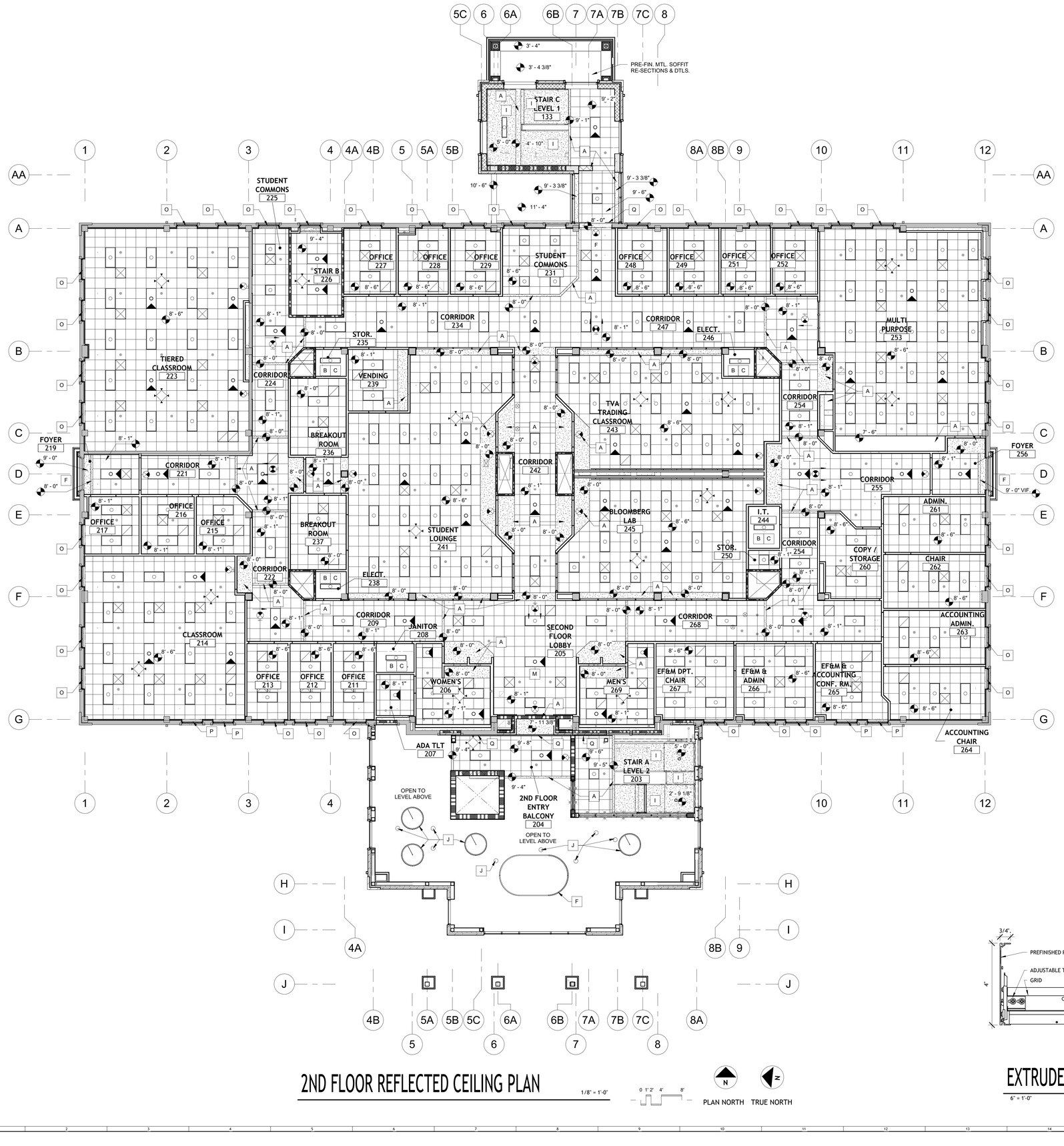
ISSUE DATE 3-28-25

SHEET TITLE
REFLECTED CEILING PLANS - FIRST FLOOR

DRAWN CWD
REVIEW KAC

A7.10

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2ND FLOOR REFLECTED CEILING PLAN

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PLAN NORTH TRUE NORTH

LEGEND OF SYMBOLS

- 2' x 2' LAY-IN CEILING GRID
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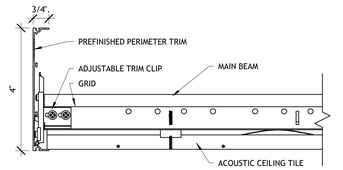
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EXTRUDED PERIMETER TRIM 1

6" = 1'-0"

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Ph. (931) 484-7541 www.uplanddesigngroup.com

W&O Construction
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KIM ALLEN CHAMBERLAIN REGISTERED ARCHITECT 38881 STATE OF TENNESSEE
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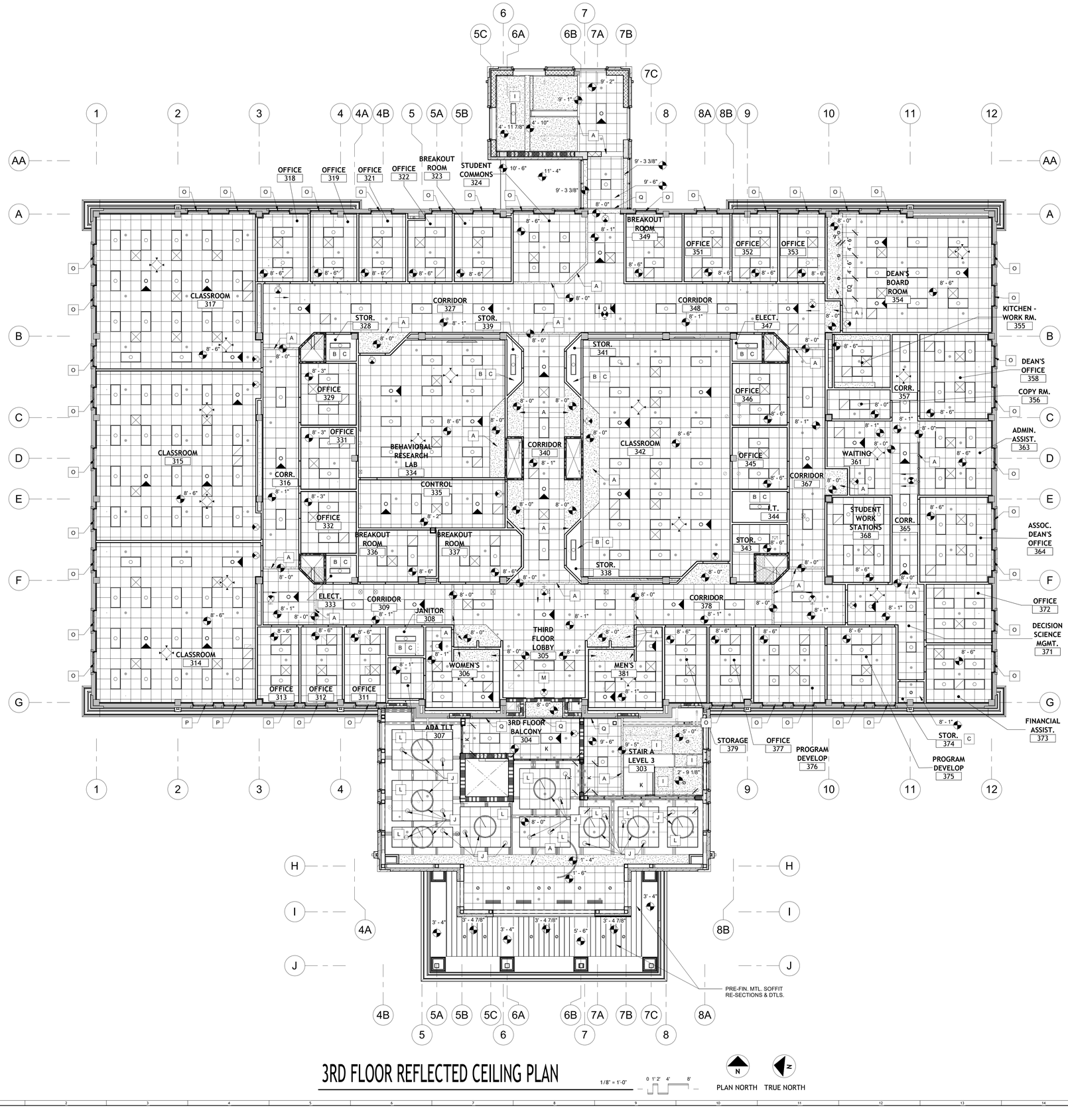
SHEET TITLE
REFLECTED CEILING PLAN - SECOND FLOOR

DRAWN CWD

REVIEW KAC

A7.20

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3RD FLOOR REFLECTED CEILING PLAN

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LEGEND OF SYMBOLS

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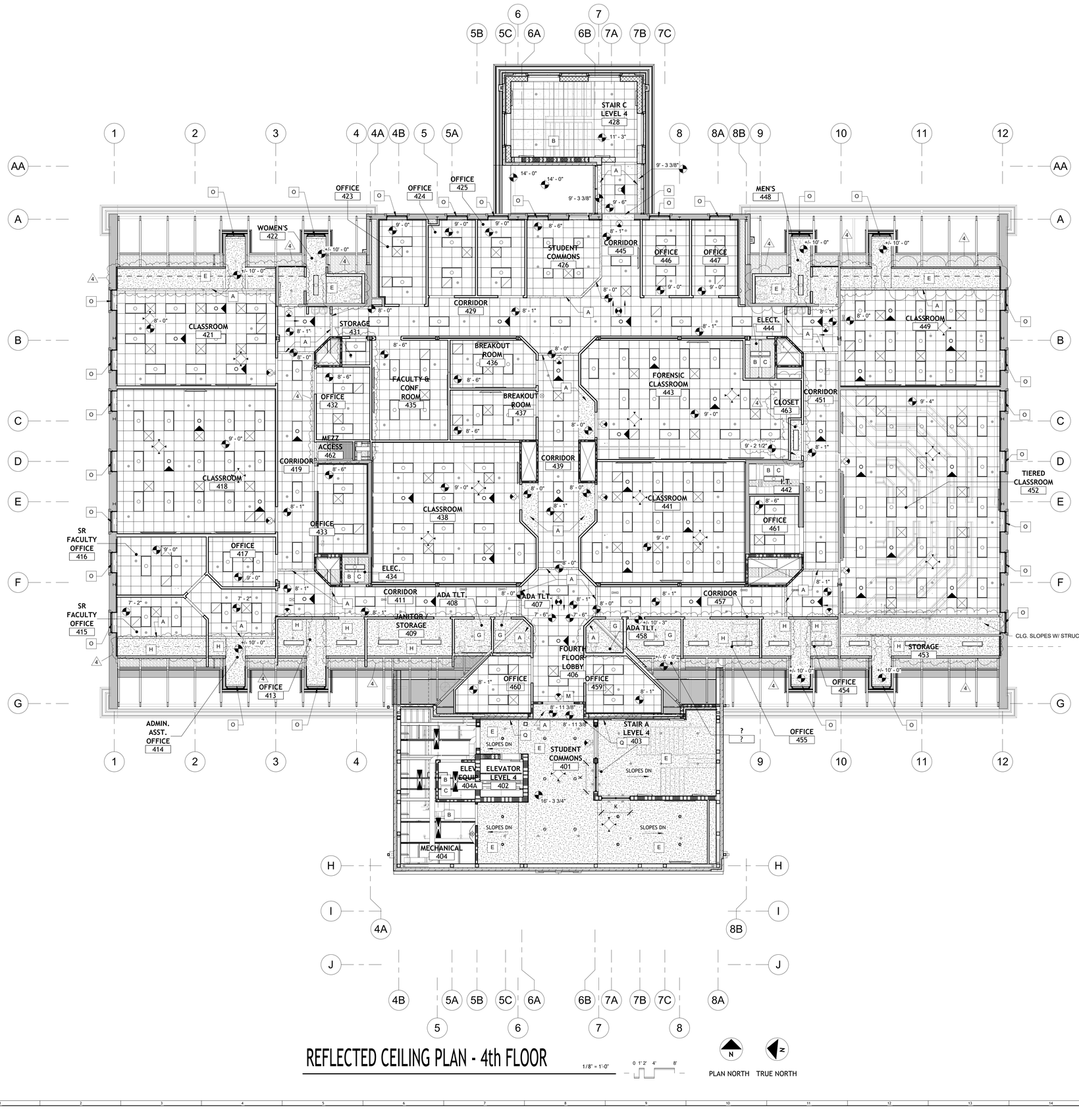
SHEET TITLE
REFLECTED CEILING PLAN - THIRD FLOOR

DRAWN CWD

REVIEW KAC

A7.30

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REFLECTED CEILING PLAN - 4th FLOOR

1/8" = 1'-0"

0 1' 2' 4' 8'

PLAN NORTH TRUE NORTH

LEGEND OF SYMBOLS

- 2' x 2' LAY-IN CEILING GRID
- 2' x 2' LAY-IN CEILING GRID W/ 4" ACOUSTICAL CEILING EDGE TRIM - SEE SPEC SECTION 09 53 00
- GYPSUM BOARD CEILING
- CLG OPEN TO EXIST. TECTUM STRUCT. DECK TO REMAIN EXPOSED
- 2' x 4' RECESSED LIGHT FIXTURE
- 2' x 2' RECESSED LIGHT FIXTURE
- 2' x 4' RECESSED LIGHT FIXTURE - EMERGENCY
- 2' x 2' RECESSED LIGHT FIXTURE - EMERGENCY
- 1' x 4' SURFACE MOUNT OR SUSPENDED LIGHT FIXTURE
- 2' X 4' SURFACE MOUNT OR SUSPENDED LIGHT FIXTURE
- RECESSED LUMINAIRE
- SURFACE MOUNT OR SUSPENDED LUMINAIRE
- WALL MOUNTED VANITY FIXTURE
- WALL MOUNTED LINEAR SCONCE
- EXIT SIGN - SINGLE OR DOUBLE FACE, WALL OR CLG. MOUNTED, COORDINATE WITH ELECTRICAL DRAWINGS. DIRECTIONAL ARROWS SHALL BE PROVIDED AS SHOWN. EXIT SIGN SHALL BE ON THE LIFE-SAFETY CIRCUIT OF THE GENERATOR FOR OPERATION DURING LOSS OF NORMAL BUILDING POWER.
- SUPPLY DIFFUSER
- EF EXHAUST FAN
- RETURN GRILLE
- EH ELECTRIC HEATER
- OCCUPANCY SENSOR
- SMOKE DETECTOR (CEILING MOUNTED)

GENERAL NOTES

1. LIGHTS, HVAC DIFFUSERS AND EXHAUST VENTS ARE SHOWN FOR REFERENCE ONLY AND MAY NOT BE ALL INCLUSIVE. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS.
2. REFER TO FP1.1 THROUGH FP1.5 FOR SPRINKLER HEAD LOCATIONS. SPRINKLER HEADS ARE TO BE CENTERED WITHIN CEILING TILES - TYPICAL.
3. PROVIDE ROLLER SHADES AT WINDOWS AS NOTED ON PLANS.

KEY NOTES

A. GYPSUM BOARD FURRDOWN. COORDINATE WITH REFLECTED CEILING PLANS FOR HEIGHTS.

B. CEILING OPEN TO STRUCTURE ABOVE; FIXTURES, DUCTWORK & CEILING ACCESSORIES HUNG FROM ABOVE.

C. CENTER FIXTURE IN ROOM.

D. CEILING HUNG PRIVACY CURTAIN. COORDINATE WITH SPECIFICATIONS.

E. HOLD GYPSUM BOARD CEILING TIGHT TO UNDERSIDE OF STRUCTURE. COORDINATE WITH ELECTRICAL DRAWINGS FOR FIXTURES.

F. LED OVAL TICKERTAPE SUSPENDED FROM CEILING.

G. CEILING OPEN TO EXISTING STRUCTURE, PAINTED PER FINISH SCHEDULE.

H. NEW SLOPED 1/2" GYPSUM BOARD ON 1 1/2" METAL HAT CHANNELS @ 16" O.C. COORD. W/ M,P, & E WORK AND FIELD VERIFY EXISTING CONDITIONS.

I. GYPSUM BOARD AT BOTTOM OF STAIRS BETWEEN STAIR STRINGERS.

J. DECORATIVE LIGHTING - ELEVATION OFF F.F.E. VARIES - COORDINATE WITH ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS.

K. SPRINKLER WALL WASH HEADS PER ICC-ES ESR-2397. COORDINATE WITH FIRE PROTECTION DRAWINGS.

L. PROVIDE PREFINISHED PERIMETER 11/A7.20XUND ACOUSTIC CEILING CLOUD PER SPECIFICATIONS AND DETAIL.

M. PROVIDE J-BOX AT CEILING WITH POWER/DATA FOR OWNER PROVIDED PROJECTOR.

N. PROVIDE POWER AND CONTROL CONNECTIONS FOR CEILING HUNG PROJECTOR SCREEN. PROJECTOR PROVIDED BY OWNER.

O. WINDOW SHADE- MOUNT TO EXISTING STRUCTURE ABOVE WINDOW

P. DUAL BLACKOUT WINDOW SHADE- MOUNT TO EXISTING STRUCTURE ABOVE WINDOW

Q. 2" EXPANSION JOINT CEILING COVER

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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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.

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
KIRK W. ALLEN CHAMBERLAIN
REGISTERED ARCHITECT
AGRICULTURE
No. 19139
5/16/25
STATE OF TENNESSEE

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NO.	DESCRIPTION	DATE
4	Addendum 1 - PKG 3	5-16-25

JOB NO. 22025

ISSUE DATE 3-28-25

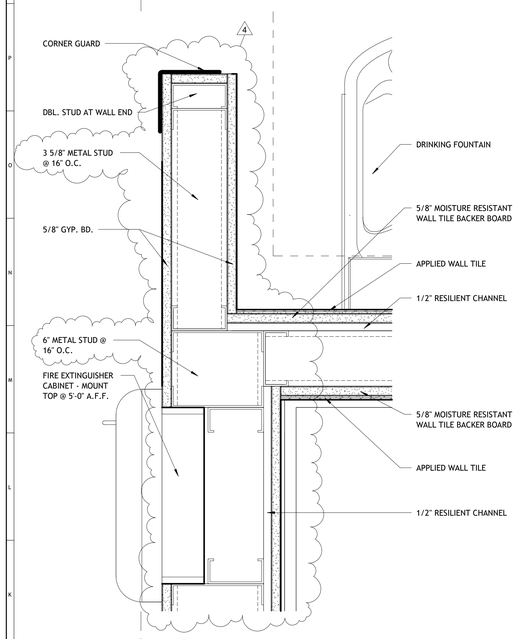
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REFLECTED CEILING PLAN - FOURTH FLOOR

DRAWN CWD

REVIEW KAC

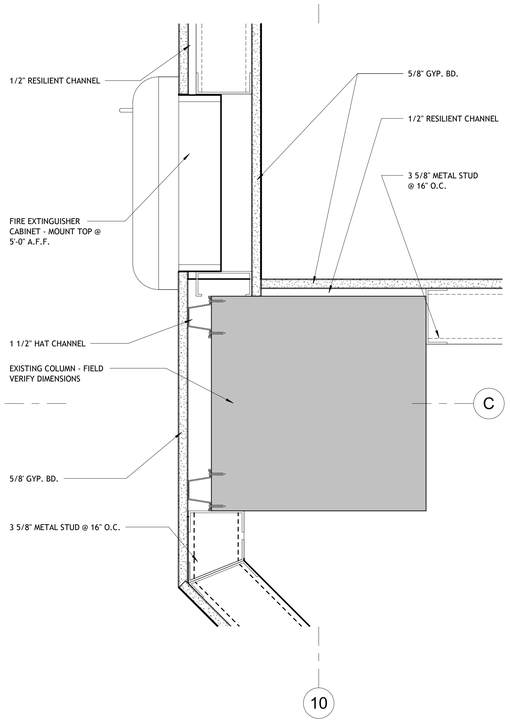
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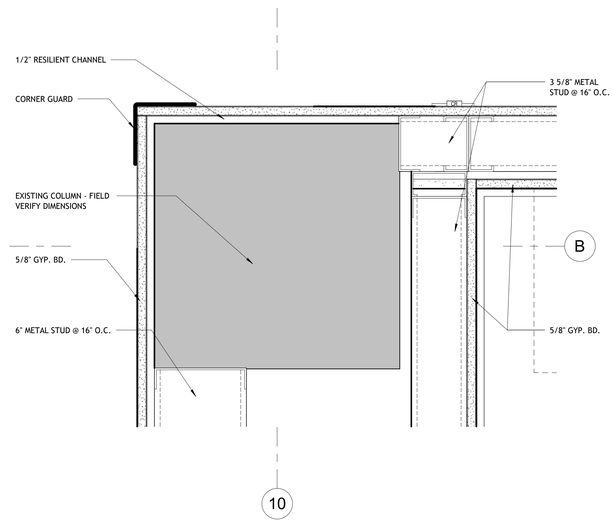
PLAN DETAIL 1

3" = 1'-0"



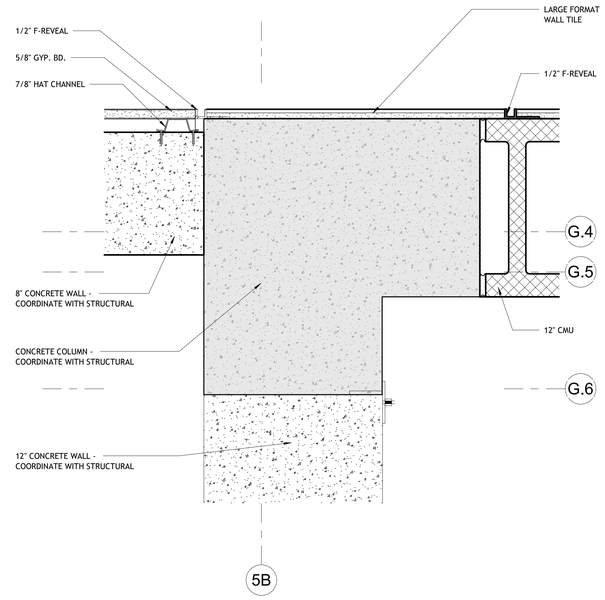
PLAN DETAIL 2

3" = 1'-0"



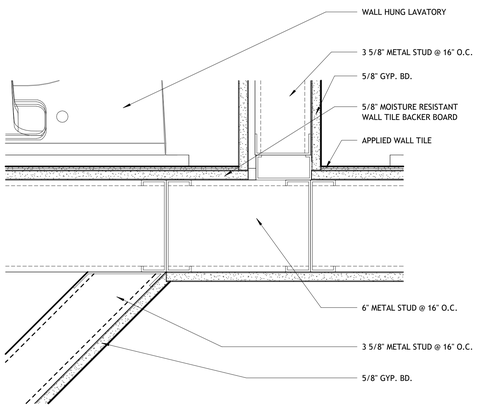
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3" = 1'-0"



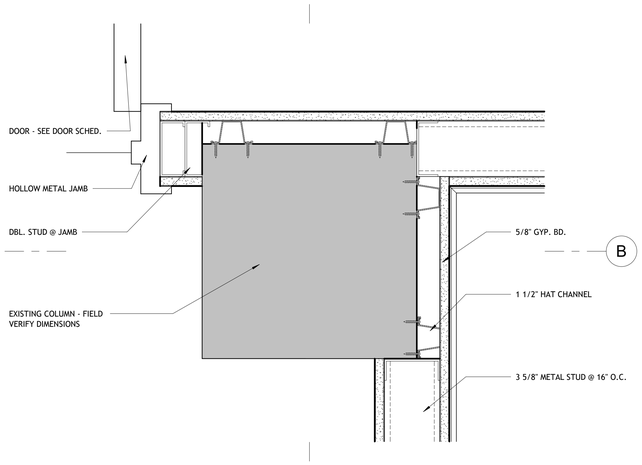
PLAN DETAIL 8

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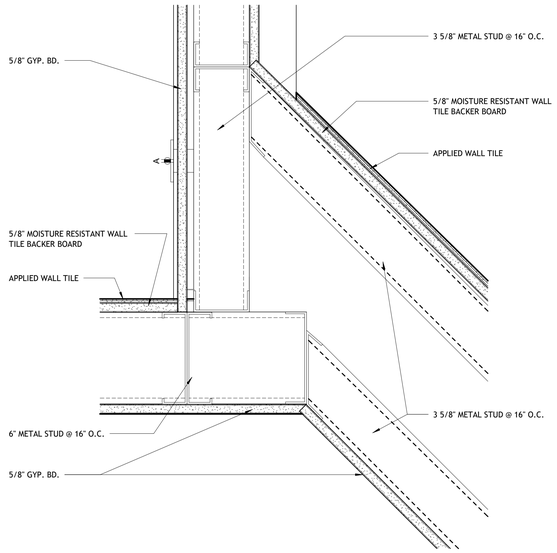
PLAN DETAIL 4

3" = 1'-0"



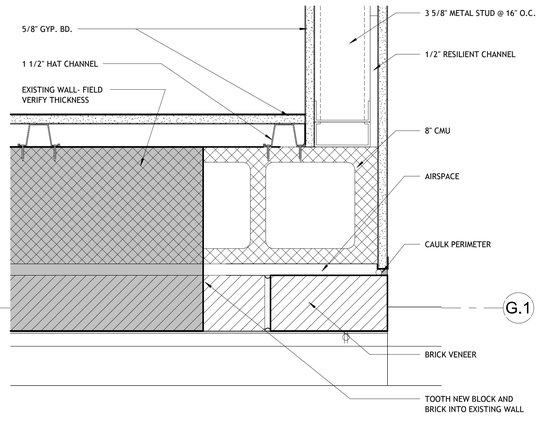
PLAN DETAIL 5

3" = 1'-0"



PLAN DETAIL 6

3" = 1'-0"



PLAN DETAIL 7

3" = 1'-0"

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PROJECT
JOHNSON HALL RENOVATION - PKG 3
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

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JOB NO.
22025

ISSUE DATE
3-28-25

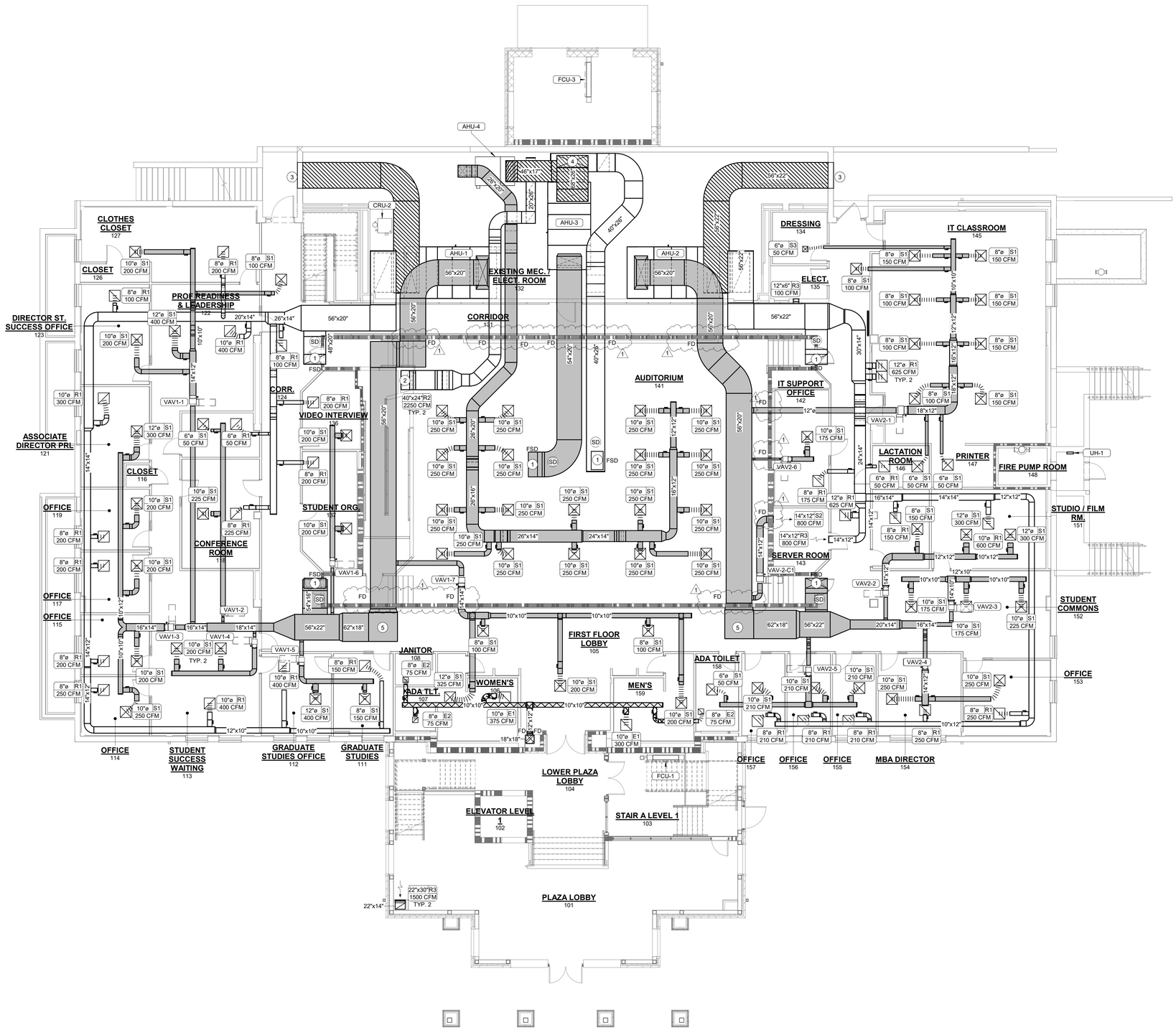
SHEET TITLE
ENLARGED PLAN DETAILS

DRAWN
KJ

REVIEW
KAC

A8.04

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MECHANICAL NOTES

GENERAL NOTES
- A COORDINATE ROUTING OF DUCT/PIPING WITH OTHER TRADES
- B SEE MECHANICAL PIPING PLAN FOR HYDRONIC PIPING AND THERMOSTAT LOCATIONS

NUMBERED NOTES
1. UP TO ABOVE
2. DOWN TO RETURN GRILLE
3. MATCH EXISTING LOUVER SIZE LOCATED HERE. OUTSIDE AIR DUCT SIZED FOR FULL (100%) ECONOMIZER FLOW
4. UP TO CONCRETE OUTSIDE AIR PLENUM UNDERNEATH NEW STAIR STRUCTURE. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL
5. DUCT PANCAKES IN THIS AREA TO AVOID CONCRETE BEAM INTERFERENCES

MECHANICAL LEGEND

- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- SUPPLY / RETURN SIDEWALL GRILLE
- CONNECTION SIZE
- DIFFUSER / GRILLE CALLOUT
- AIRFLOW IN CFM
- FD — FIRE DAMPER - FUSIBLE LINK @ 165°F
- FSD — COMBINATION FIRE SMOKE DAMPER
- SD — SMOKE DETECTOR
- XX-1 — SCHEDULED ITEM LABEL
- T — THERMOSTAT
- SUPPLY DUCT
- RETURN DUCT
- OUTSIDE AIR DUCT
- EXHAUST DUCT
- FLEX DUCT
- MANUAL DAMPER

RATED WALL SYMBOL LEGEND

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FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

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2-HOUR FIRE BARRIER

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1 M1.1 FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

NORTH

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PROJECT
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JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
JUSTIN BLAKE NEWELL — REGISTERED PROFESSIONAL ENGINEER — STATE OF TENNESSEE
05/16/2025
03/28/2025

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE FIRST FLOOR MECHANICAL PLAN

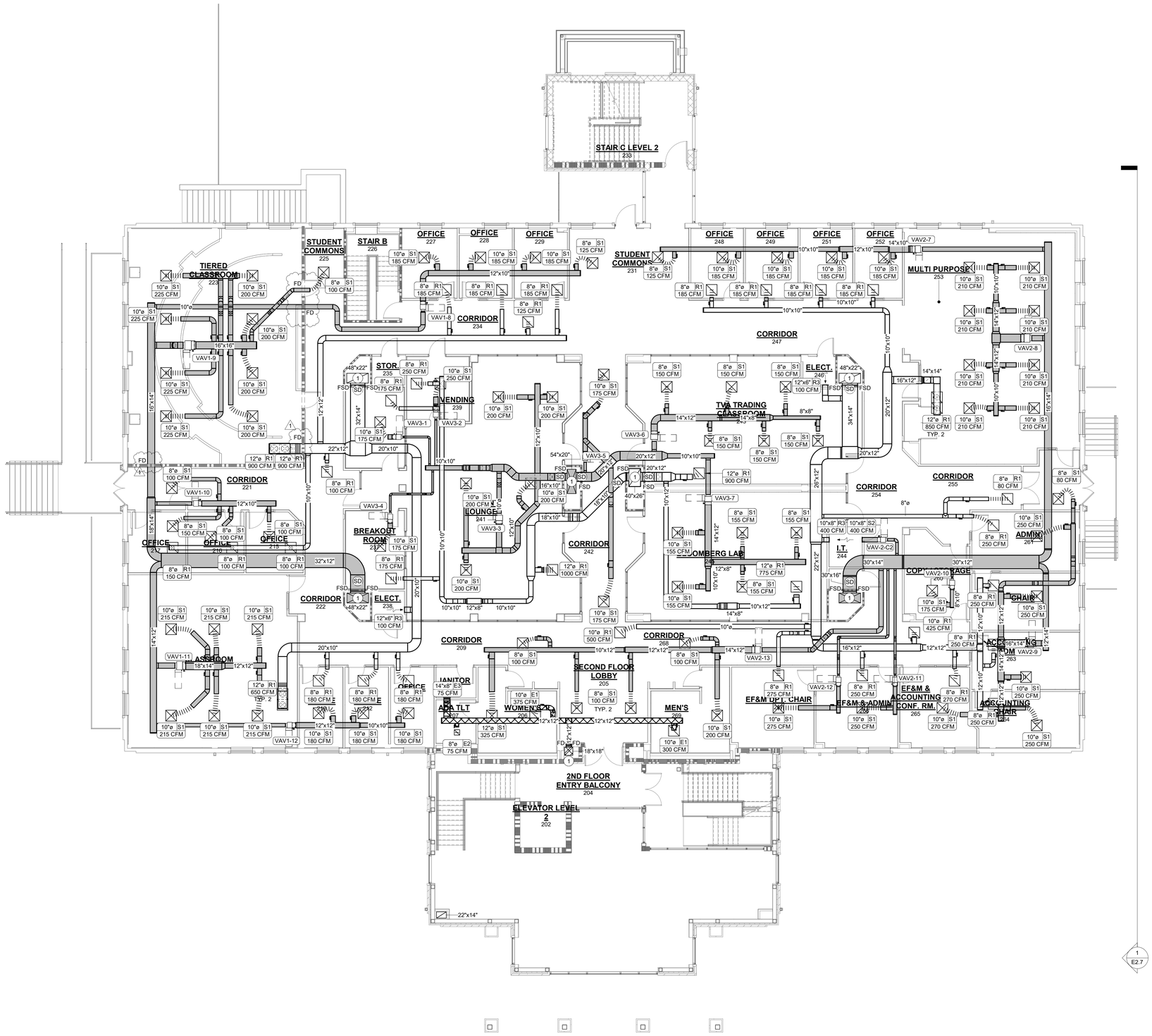
DRAWN AMF

REVIEW JBN

M1.1

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COOKEVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-loftis.com

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MECHANICAL NOTES

GENERAL NOTES

A COORDINATE ROUTING OF DUCT/PIPING WITH OTHER TRADES
B SEE MECHANICAL PIPING PLAN FOR HYDRONIC PIPING AND THERMOSTAT LOCATIONS

NUMBERED NOTES

1 UP TO ABOVE

MECHANICAL LEGEND

- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- SUPPLY / RETURN SIDEWALL GRILLE
- CONNECTION SIZE
- DIFFUSER / GRILLE CALLOUT
- AIRFLOW IN CFM
- FD — FIRE DAMPER - FUSIBLE LINK @ 165°F
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- T — THERMOSTAT
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- RETURN DUCT
- OUTSIDE AIR DUCT
- EXHAUST DUCT
- FLEX DUCT
- MANUAL DAMPER

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

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2-HOUR FIRE BARRIER

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1 M1.2 SECOND FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

NORTH

1 E2.7

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/03/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE
SECOND FLOOR MECHANICAL PLAN

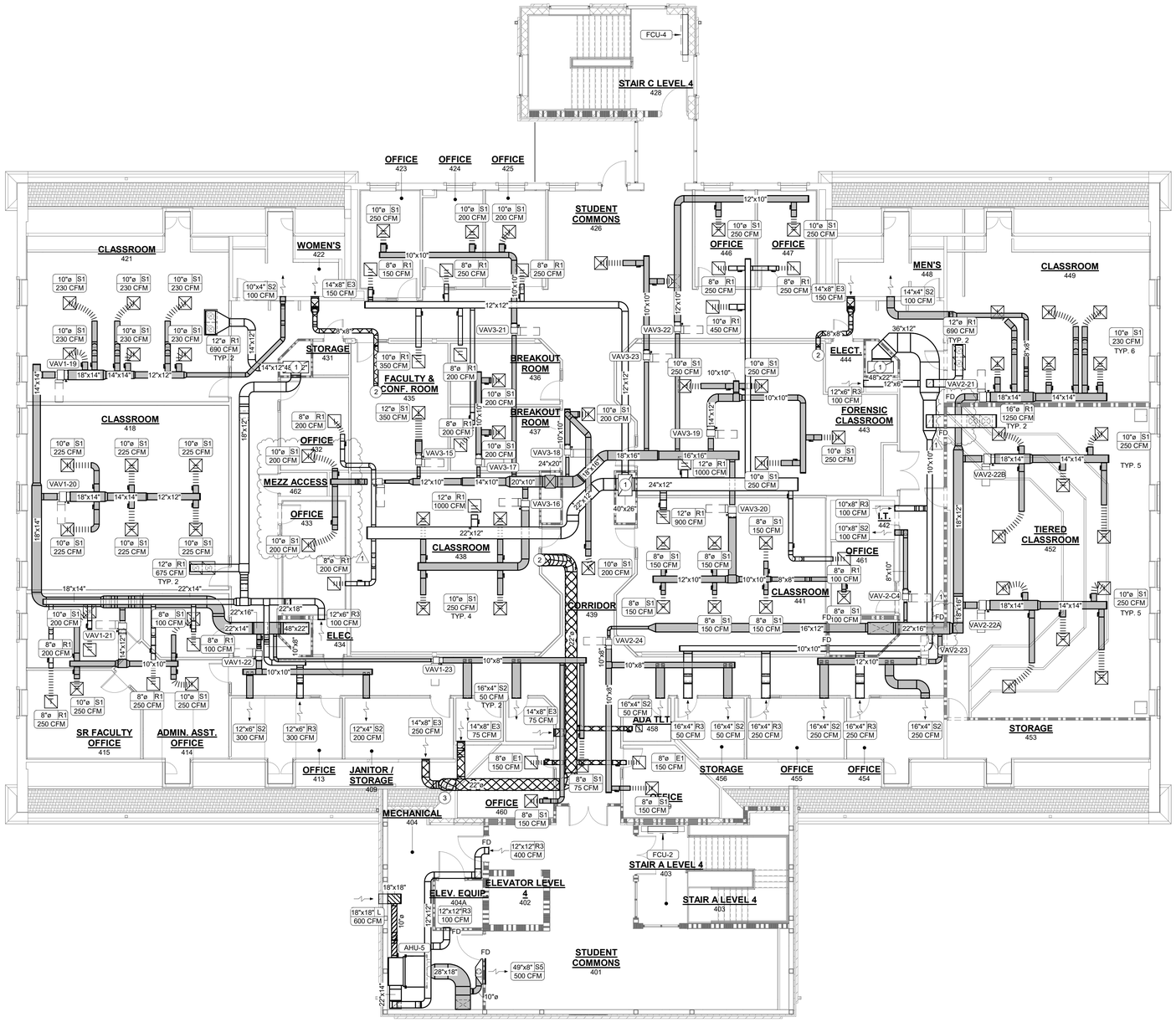
DRAWN AMF

REVIEW JBN

M1.2

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1 M1.4 FOURTH FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

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1 E2.7

MECHANICAL NOTES

GENERAL NOTES
- A COORDINATE ROUTING OF DUCT/PIPING WITH OTHER TRADES
- B SEE MECHANICAL PIPING PLAN FOR HYDRONIC PIPING AND THERMOSTAT LOCATIONS

NUMBERED NOTES
1. UP TO RELIEF FAN
2. UP TO EXHAUST FAN. SEE M1.5 FOR CONTINUATION
3. 22" Ø UP FROM BELOW

MECHANICAL LEGEND

- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- SUPPLY / RETURN SIDEWALL GRILLE
- CONNECTION SIZE
- DIFFUSER / GRILLE CALLOUT
- AIRFLOW IN CFM
- FD FIRE DAMPER - FUSIBLE LINK @ 165°F
- FSD COMBINATION FIRE SMOKE DAMPER
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AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
JUSTIN BLAKE NEWELL — REGISTERED ARCHITECT — STATE OF TENNESSEE
05/16/2025
03/28/2025

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

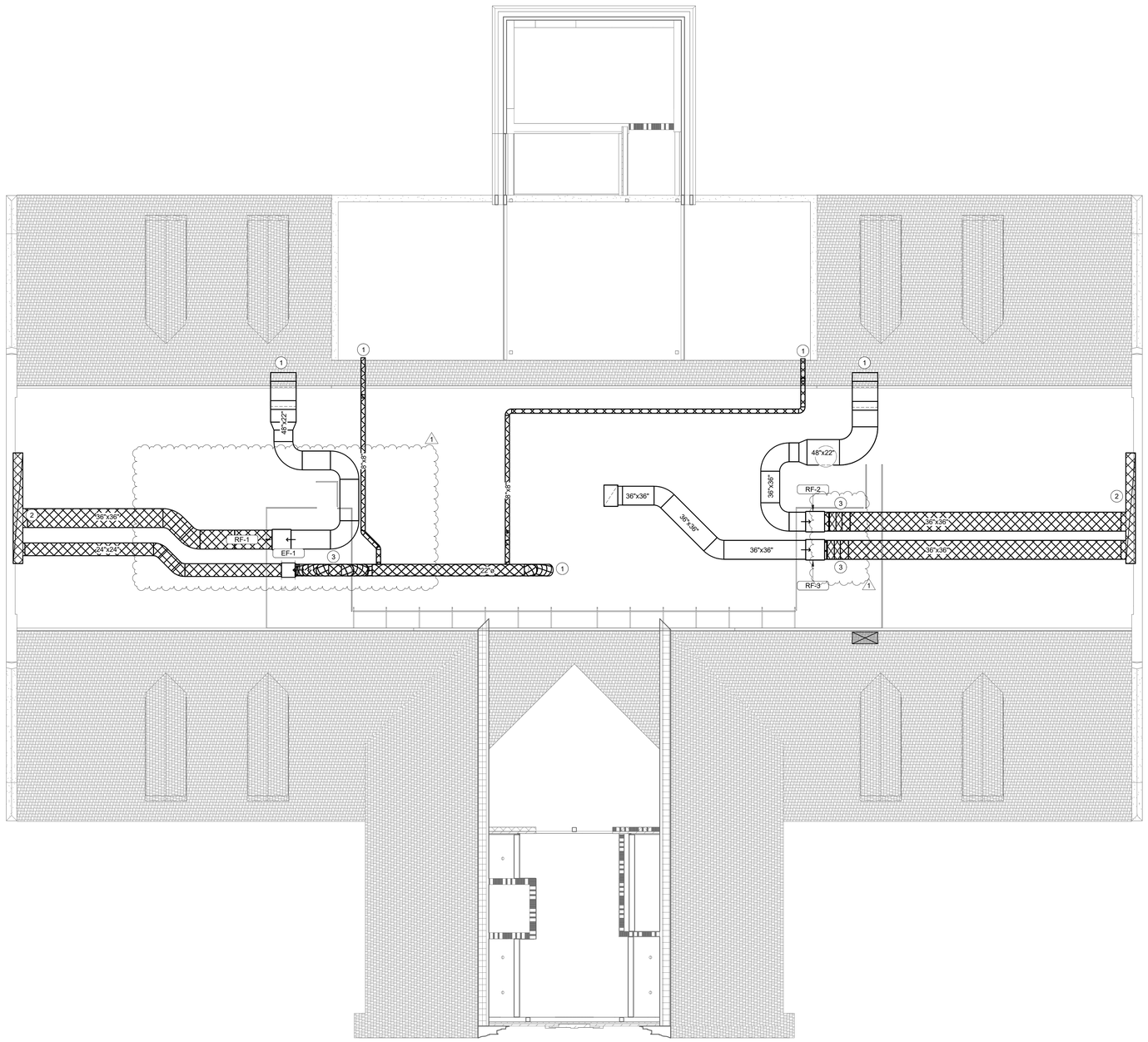
SHEET TITLE
FOURTH FLOOR MECHANICAL PLAN

DRAWN AMF

REVIEW JBN

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PIPING MATERIALS SCHEDULE

DESCRIPTION	MATERIAL	STANDARDS	REMARKS
DOMESTIC WATER SERVICE PIPE (MIN. 160 psi @ 73.4 F) (UNDERGROUND OUTSIDE OF BUILDING)	TYPE K SOFT COPPER TUBE	ASTM B88	
DOMESTIC WATER DISTRIBUTION PIPE	COPPER TUBE WROUGHT COPPER FITTINGS	ASTM B88 ASTM B828 ASTM B32 ANSI B16.22	UNDERGROUND - SOFT TYPE K ABOVEGROUND - HARD TYPE L LEAD FREE SOLDER
(MIN. 100 psi @ 180 F) (INSIDE OF BUILDING)	INSULATION HW: UP TO 1 1/4" DIA. ALL MATERIALS HW: 1 1/2" DIA. AND ABOVE ALL MATERIALS CW: COPPER		1" ELASTOMERIC 2" ELASTOMERIC 1/2" ELASTOMERIC
GRAVITY DRAIN, WASTE, & VENT PIPING	SCHEDULE 40 PVC (SOLID WALL)	ASTM D2665	SOLVENT JOINT
	SCHEDULE 40 PVC (CELLULAR CORE)	ASTM F891	SOLVENT JOINT (SEE NOTE 10)
	CAST IRON	ASTM A888	HUBLESS PIPE EXTERNAL COMPRESSION FITTINGS
PRIMARY STORM DRAIN	SCHEDULE 40 PVC (BELOW SLAB) (SOLID WALL)	ASTM D2665	SOLVENT JOINT
	CAST IRON (ABOVE SLAB)	ASTM A888	HUBLESS PIPE EXTERNAL COMPRESSION FITTINGS
	INSULATION		1/2" FIBERGLASS DOWN TO FIRST LEVEL SLAB
HANGERS	COPPER TUBE	PER CODE	1/2" - 3/4" : 5'-0" O.C. MAX. 1" : 6'-0" O.C. MAX. 1 1/2" - 2" : 8'-0" O.C. MAX. 2 1/2" : 9'-0" O.C. MAX. 3" : 10'-0" O.C. MAX.
	SCHEDULE 40 PVC	PER CODE	4'-0" O.C. MAX.
	CAST IRON	PER CODE	5'-0" O.C. MAX.

NOTES:

1. WITHOUT EXCEPTION, ALL EXPOSED DOMESTIC PIPING SHALL BE COPPER AND ADEQUATELY BRACED.
2. DOMESTIC PIPE SIZES NOTED ON PLANS ARE FOR COPPER PIPE. IF ALTERNATE MATERIALS ARE USED, CONTRACTOR SHALL INCREASE PIPE SIZE AS NECESSARY TO MATCH COPPER INTERIOR DIAMETER.
3. WITHOUT EXCEPTION, ALL WATER PIPING WITHIN 10'-0" OF WATER HEATING EQUIPMENT SHALL BE COPPER.
4. INSTALL ALL MATERIALS CONSISTENT WITH CODES, LISTING AGENCIES, AND MANUFACTURER RECOMMENDATIONS.
5. CONTRACTOR MUST BE TRAINED AND MANUFACTURER CERTIFIED FOR THE MATERIALS UTILIZED.
6. ALL DOMESTIC WATER PIPING SHALL CONFORM WITH NSF 14.
7. ALL PLASTIC DOMESTIC WATER PIPING SHALL CONFORM WITH NSF 14.
8. UTILIZE CAST IRON SANITARY PIPING IN LIEU OF PVC WHERE NOTED ON PLANS.
9. UTILIZE SOLID CORE PVC FOR ALL DIRECT BURY SEWER PIPING.
10. CELLULAR CORE PVC MAY BE USED ONLY FOR ABOVE SLAB SEWER PIPING AND VENTING.
11. WITHOUT EXCEPTION, ONLY PLUMBING COMPONENTS THAT HAVE BEEN CERTIFIED AS "LEAD FREE" SHALL BE ALLOWED TO BE INSTALLED ON POTABLE WATER SYSTEMS. REFERENCE NSF/ANSI 371.
12. FOR HW CIRCULATION LOOPS, THE ENTIRE LOOP PIPING SHALL BE INSULATED. ALSO, BRANCH PIPING EXTENDING FROM THE MAIN LOOP PIPING SHALL BE INSULATED FOR A DISTANCE OF 8 FEET. BRANCH PIPING BEYOND 8 FEET IS NOT REQUIRED TO BE INSULATED.
13. ALL FIXTURE STUB-OUTS TO BE COPPER.
14. ALL UNDERSLAB PIPING SHALL BE SLEEVED PEX. FOR APPROVED SLEEVE, REFER TO MANUFACTURER.
15. PROPRESS FITTINGS FOR COPPER PIPE SHALL BE ALLOWED.

WATER HAMMER ARRESTER SCHEDULE

LINE SIZE	CONNECTION SIZE	LENGTH	DIAMETER	CUBIC INCH VOLUME
1/2" - 3/4"	1/2"	8 1/4"	1 3/8"	5
1"	3/4"	10"	1 3/8"	7
1 1/4"	1"	11"	2 1/8"	20
1 1/2"	1"	13 1/2"	2 1/8"	29
2"	1"	16"	2 1/8"	36

NOTES:
1. MOUNT ARRESTERS IN ACCESSIBLE LOCATION.
2. LOCATE ARRESTERS AT HIGHEST POINT OF PIPING.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SERVICES C.W.	H.W.	S.S.	V.	REMARKS
HCWC	H.C. WATER CLOSET FLUSH VALVE - SENSOR - BATTERY SEAT	AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD	3461.528 INCLUDED 5901.100	1"		4"	2"	FLOOR MOUNTED, 16 1/2" RIM HT. A.F.F., VITREOUS CHINA, ENLONGATED BOWL, ADA EXPOSED, BATTERY POWERED, 1.28 GPF, UTILIZE CHROME SPLIT RING PIPE SUPPORT OPEN FRONT, LESS COVER
WC	WATER CLOSET FLUSH VALVE - SENSOR - BATTERY SEAT	AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD	3451.528 INCLUDED 5901.100	1"		4"	2"	FLOOR MOUNTED, 15" A.F.F., VITREOUS CHINA, ENLONGATED BOWL EXPOSED, MANUAL, PISTION-TYPE, 1.1 GPF, UTILIZE CHROME SPLIT RING PIPE SUPPORT OPEN FRONT, LESS COVER
UR	URINAL FLUSH VALVE - SENSOR - BATTERY WALL CARRIER	AMERICAN STANDARD AMERICAN STANDARD JAY R. SMITH	6590.001 6063.013 0616	3/4"		2"		VITREOUS CHINA, LOW-CONSUMPTION, FLUSHING RIM @ 17" A.F.F. FOR ADA EXPOSED, BATTERY POWERED, 0.5 GPF, UTILIZE CHROME SPLIT RING PIPE SUPPORT LABOR SAVER URINAL SUPPORT WALL HANGER w/ HANGER PLATE
LAV-1	LAVATORY, ADA FAUCET - SENSOR - BATTERY, ADA GRID DRAIN 1 1/4" TRAP TRAP PRIMER TAIL PIECE SUPPLIES STOPS HC GUARDING THERMOSTATIC MIXING VALVE	AMERICAN STANDARD AMERICAN STANDARD AMERICAN STANDARD MCGUIRE SIOUX CHIEF LSP AQUAFLO WATTS TRUEBRO ZURN / WILKINS	0356.921 0055.104 --- 8872 SERIES 213 SERIES SFC KWIKSTOP LAVSHIELD ZW3870XLT	1/2"	1/2"	1 1/2"	1 1/4"	WALL HUNG, SINGLE HOLE, VITREOUS CHINA, FRONT OVERFLOW, SOAP DEPRESSION, FAUCET LEDGE BATTERY POWERED, CAST BRASS, POLISHED CHROME, 0.35 GPM 17 GA. CHROME PLATED, CAST BRASS 17 GA. CHROME PLATED, CAST BRASS w/ CLEAN OUT PLUG GRAVITY FED TO FLOOR DRAIN STAINLESS STEEL, CHLORAMINE RESISTANT 1/4 TURN CHROME PLATED, SOLID BRASS BODY RIGID, HIGH-IMPACT ENCLOSURE NICKEL PLATED, INTERNAL BRASS BODY, POLYSUFONE PISTON, OUTLET TEMP. RANGE 95-115°F, FIELD TEST TEMPERATURE
LAV-2	LAVATORY, ADA FAUCET - SENSOR - BATTERY, ADA GRID DRAIN 1 1/4" TRAP TRAP PRIMER TAILPIECE SUPPLIES STOPS HC GUARDING THERMOSTATIC MIXING VALVE	--- AMERICAN STANDARD AMERICAN STANDARD McGUIRE SIOUX CHIEF LSP AQUAFLO WATTS TRUEBRO ZURN / WILKINS	--- 6055.104 --- 8872 SERIES 213 SERIES SFC KWIKSTOP LAVSHIELD ZW3870XLT					REFER TO ARCHITECTURAL SHEETS BATTERY POWERED, CAST BRASS, POLISHED CHROME, 0.35 GPM 17 ga CHROME PLATED, CAST BRASS 17 ga CHROME PLATED, CAST BRASS w/ CLEAN OUT PLUG GRAVITY FED TO FLOOR DRAIN STAINLESS STEEL CONNECTORS 1/4 TURN CHROME PLATED, SOLID BRASS BODY RIGID, HIGH-IMPACT ENCLOSURE NICKEL PLATED, INTERNAL BRASS BODY, POLYSUFONE PISTON, OUTLET TEMP. RANGE 95-115°F, FIELD TEST TEMPERATURE
MS	MOP SINK FAUCET 2" TRAP	FLORESTONE T&S BRASS ---	MSR-2424 B-0662 ---	1/2"	1/2"	2"	1 1/2"	MOLDED, ONE PIECE FLOOR MOUNTED MOP SINK, 24" x 24" x 10" 8" WALL SUPPORTED CEILING MOUNT, TWO HANDLE, 3/4" HOSE THREADED OUTLET, PAIL HOOK, WALL BRACE SCHEDULE 40 PVC
SCS	SINGLE COMPARTMENT SINK, ADA FAUCET BASKET STRAINER 1 1/2" TRAP SUPPLIES STOPS	ELKAY SYMMONS ELKAY ZURN LSP AQUAFLO ZURN	ECTSR25229TBG S-23-3 LK-99 Z8702-PC SWC Z8804	1/2"	1/2"	2"	1 1/2"	SINGLE BOWL, 18 ga., STAINLESS STEEL, SELF-RIMMING, 9" DEEP SINGLE LEVER, HANDLE LIMIT STOPS, SPRAYER, ADA 17 ga. CHROME PLATED, CAST BRASS 17 ga. CHROME PLATED, CAST BRASS w/ CLEAN OUT PLUG STAINLESS STEEL CONNECTORS 1/4 TURN CHROME PLATED, BRASS CONSTRUCTION
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	ZURN WILKINS	375	3"				FULL PORT GATE VALVES, EPOXY COATED DUCTILE IRON, STAINLESS STEEL STEMS, EPDM ELASTOMER SEAT DISC, ACCESSIBLE CHECK AND RELIEF VALVES.
RPBP-2	REDUCED PRESSURE BACKFLOW PREVENTER	ZURN WILKINS	975XL	1"				BRONZE, 180°F RATED, SEAT RING & INTERNAL POLYMERS TO BE NSF LISTED NORYL SEAT DISC ELASTOMERS TO BE SILICONE, FULL PORT BALL VALVES AIR GAP CONNECTION, INLET/OUTLET PRESSURE GAUGES
HCDF	BI-LEVEL WATER COOLER W/ BOTTLE FILLER WALL CARRIER SUPPLY STOP	HALSEY TAYLOR HALSEY TAYLOR LSP AQUAFLO WATTS	HTHB-HAC8BLSS-WF MLP200 SFC KWIKSTOP	1/2"		1 1/2"	1 1/4"	WALL HUNG, ELECTRIC WATER COOLER, FRONT PUSH BAR MOUNT ORIFICE HEIGHT AT 33" A.F.F. FOR ADA COMPLIANCE IN WALL, FLOOR MOUNTED, HEAVY GAUGE STEEL STAINLESS STEEL CONNECTOR 1/4 TURN CHROME PLATED, SOLID BRASS BODY
FD-1	FLOOR DRAIN TRAP SHIELD	SIOUX CHIEF SIOUX CHIEF	842 SERIES 835 SERIES					SIZE PER LINE, ON GRADE, PVC HOUSING, METAL RING, BRASS COVER, ADJUSTABLE, SQUARE TRIM FOR TILE FLOORS SIZE PER LINE, SILICONE SEALING BODY, POLYPROPYLENE RIGID RING
FD-2	FLOOR DRAIN (HALO) TRAP SHIELD	SIOUX CHIEF SIOUX CHIEF	822 SERIES 835 SERIES					SIZE PER LINE, METAL DECK FLANGE, PVC HOUSING, BRASS COVER, ADJUSTABLE SIZE PER LINE, SILICONE SEALING BODY, POLYPROPYLENE RIGID RING
RD	ROOF DRAIN	ZURN	Z121					SIZE PER LINE, CAST IRON, POLYPROPYLENE LOCKING DOME, CLAMP RING, WIDE ROOF FLANGE. INSTALL PER ARCHITECTURAL AND CONSISTENT WITH ROOFING SYSTEM RECOMMENDATIONS.
ICE	REFRIGERATOR WATER CONNECTION BOX	SIOUX CHIEF	696 SERIES	1/2"				BRASS BALL VALVE w/ INTEGRAL WATER HAMMER ARRESTOR
HB	HOSE BIBB	ZURN	Z1320-CXL	3/4"				ECOLOTROL WALL HYDRANT, ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING
WF	WALL FAUCET	ZURN	Z1341XL					EXPOSED, LEAD-FREE, ANTI-SIPHON, SECURED WHEEL-TYPE HANDLE, 3/4" MALE HOSE CONNECTION
WHA	WATER HAMMER ARRESTOR	SIOUX CHIEF	652-AS					COPPER BODY w/ PERMANENTLY SEALED PRE-CHARGED PISTON, SIZE PER SCHEDULE
BV	BALL VALVE	NIBCO	PC-FP-600A-D-LF					SIZE PER LINE, TWO-PIECE BALL VALVE WITH DRAIN, LEAD FREE BRASS, FULL PORT, PRESS END CONNECTIONS, 250psi
CV	CHECK VALVE	WATTS	LF600					SIZE PER LINE, LEAD FREE
YCO	YARD CLEAN OUT	NIBCO	4816			4"		SCHEDULE 40 PVC CLEANOUT ADAPTER w/ RAISED NUT THREADED PLUG, 4" MINIMUM SIZE
FCO	FLOOR CLEAN OUT	ZURN	Z1400			4"		LEVEL-TROL, ADJUSTABLE, CAST IRON, ROUND SCORIATED CAST IRON SECURED TOP
WCO	WALL CLEAN OUT	ZURN	Z1446			4"		CAST IRON BODY, ROUND SMOOTH STAINLESS STEEL ACCESS COVER w/ SCREW

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
BV	BALL VALVE
CV	CHECK VALVE
CW	COLD WATER
CWB	CLOTHES WATER BOX
CWUFB	COLD WATER UP FROM BELOW
CWUTA	COLD WATER UP TO ABOVE
DCS	DOUBLE COMPARTMENT SINK
DZ	DOWNSPOUT NOZZLE
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GI	GREASE INTERCEPTOR
GV	GATE VALVE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HCWC	HANDICAPPED WATER CLOSET
HW	HOT WATER
HWDFA	HOT WATER DOWN FROM ABOVE
HWDTB	HOT WATER DOWN TO BELOW
HWRUFB	HOT WATER RETURN UP FROM BELOW
HWRUTA	HOT WATER RETURN UP TO ABOVE
HWUFB	HOT WATER UP FROM BELOW
HWUTA	HOT WATER UP TO ABOVE
LAV	LAVATORY
MS	MOP SINK
ODEWH	ON DEMAND ELECTRIC WATER HEATER
RH	ROOF HYDRANT
RP	RECIRCULATING PUMP
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SCS	SINGLE COMPARTMENT SINK
SD	STORM DRAIN
SDDFA	STORM DRAIN DOWN FROM ABOVE
SDDTB	STORM DRAIN DOWN TO BELOW
SS	SANITARY SEWER
SSDFA	SANITARY SEWER DOWN FROM ABOVE
SSDTB	SANITARY SEWER DOWN TO BELOW
SWR	SHOWER
TP	TRAP PRIMER
TPDU	TRAP PRIMER DISTRIBUTION UNIT
UR	URINAL
V	VENT
VB	VALVE BOX
VTR	VENT THRU ROOF
VUFB	VENT UP FROM BELOW
VUTA	VENT UP TO ABOVE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER
YCO	YARD CLEAN OUT
YCO (TR)	YARD CLEAN OUT - TRAFFIC RATED

WATER BOOSTER PUMP SCHEDULE

UNIT	
UNIT DESIGNATION	WBP
SERVICE	DOMESTIC WATER
TYPE	DUPLEX PACKAGE
MANUFACTURER	CANARIS
MODEL	DE-350-49-2VS
DIM (L x W x H)	62" x 58" x 78"
PERFORMANCE	
CAPACITY (GPM EACH PUMP)	175
TOTAL HEAD (H2O EACH PUMP)	113
DISCHARGE PRESS. (PSI EACH PUMP)	71
SUCTION PRESS. (PSI EACH PUMP)	33
HP (EACH PUMP)	10
RPM (EACH PUMP)	3,500
ELECTRICAL	
ELECTRICAL (V / H / P)	208 / 60 / 3
MOTOR HP	(2) 10
FLA (A)	(2) 32
MOCP (A)	100
NOTES	
	1, 2, 3, 4

NOTES:
1. EQUAL OR BETTER UNITS FROM ALTERNATE MANUFACTURES SHALL BE ACCEPTED: GRUNDFOS, TACO, HYFAB, BELL AND GOSSETT
2. COMPLETE WITH MICROPROCESSOR CONTROLS, VARIABLE SPEED DRIVES, SUPPORT FRAME, PRV VALVES, ISOLATION VALVES, AND UNIONS.
3. UNIT SHALL BE NSF APPROVED AND/OR ALL MATERIALS IN CONTACT WITH DOMESTIC WATER MUST BE COMPLIANT WITH LEAD-FREE AND POTABLE CODE REQUIREMENTS.
4. SHALL COMPLY WITH ASHRAE 2010 90.1

EXPANSION TANK SCHEDULE

UNIT		
UNIT DESIGNATION	EXT-1	EXT-2
SERVICE	DOMESTIC HOT WATER	DOMESTIC COLD WATER
TYPE	BLADDER	BLADDER
MANUFACTURER	WESSELS	WESSELS
MODEL	TXA-85	TXA-200
SIZE (DIA x H)	16" x 37"	24" x 43"
PERFORMANCE		
TANK VOLUME (GAL)	23	53
NOTES		
	1, 2, 3, 4	1, 2, 3, 4

NOTES:
1. EQUAL OR BETTER UNITS FROM ALTERNATE MANUFACTURES SHALL BE ACCEPTED: B&G, TACO
2. COMPLETE WITH REPLACEABLE BLADDER, BALL VALVE, AND FILL VALVE.
3. NON-ASME
4. UNIT SHALL BE NSF APPROVED AND/OR ALL MATERIALS IN CONTACT WITH DOMESTIC WATER MUST BE COMPLIANT WITH LEAD-FREE AND POTABLE CODE REQUIREMENTS.

HOT WATER CIRCULATION PUMP SCHEDULE

UNIT	
UNIT DESIGNATION	RP
SERVICE	(SEE BELOW)
TYPE	IN-LINE WET ROTOR
MANUFACTURER	B & G
MODEL	ecocirc XL N 20-35
PERFORMANCE	
GPM	10.4
TDH (H2O)	12.4
HP	1/12
RPM	--
NPSH (H2O)	SPEC.
MAX TEMPERATURE (F)	230
CASE WORKING PRESSURE (PSI)	175
ELECTRICAL	
ELECTRICAL (V / H / P)	115 / 60 / 1
POWER (W)	6-85
AMP RANGE	0.1 - 1.3
SERVICE RP-1 - DOMESTIC HOT WATER LOOP (HWR)	

NOTES:
1. EQUAL OR BETTER UNITS FROM ALTERNATE MANUFACTURES SHALL BE ACCEPTED: TACO, GRUNDFOS
2. COMPLETE WITH THERMOSTAT, UNIONS, BALL VALVES, AND CHECK VALVE.
3. INCLUDE CONTROLS & AQUASTAT.
4. UNIT SHALL BE NSF APPROVED AND/OR ALL MATERIALS IN CONTACT WITH DOMESTIC WATER MUST BE COMPLIANT WITH LEAD-FREE AND POTABLE CODE REQUIREMENTS.
5. SET OPERATING MODE TO CONSTANT SPEED.
6. CONTROL BY SIGNAL FROM BAS.

ELEVATOR SUMP PUMP SCHEDULE

UNIT		
UNIT DESIGNATION	ESP	
SERVICE	ELEVATOR SUMP	
TYPE	SUBMERSIBLE w/ OIL DETECTOR CONTROLS	
MANUFACTURER	LIBERTY PUMPS	
MODEL	ELV290	
PERFORMANCE		
IMPELLER SIZE	PER MANUFACTURER	
GPM	52	
TOTAL HEAD PRESSURE	25 FEET	
TEMPERATURE	140° max.	
HP	3/4	
RPM	PER MANUFACTURER	
ELECTRICAL		
ELECTRICAL (V / H / P)	115 / 60 / 1	
FULL LOAD AMPS	8	
POWER TYPE	CORDED	
NOTES		
	1, 2, 3, 4	

NOTES:
1. EQUAL OR BETTER UNITS FROM ALTERNATE MANUFACTURES SHALL BE ACCEPTED: GRUNDFOS, TACO, HYFAB, BELL AND GOSSETT
2. REFER TO DETAILS, SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS FOR ACCESSORIES.
3. ALARM MODULE
4. AUTOMATIC FLOAT BALL SWITCH CONTROLS, THREE PROBLES, ALARM (AUDIBLE & DDC), OIL DETECTOR.

SUMP PUMP SCHEDULE

DESIGNATION	SP
SERVICE	STORM
TYPE	DUPLEX PACKAGE
APPROX. IMPELLER SIZE	7"
GPM	250
TDH (FT H_2O)	30'
POWER	3 HP
VOLTAGE / PHASE	208-230 V - 1
RPM	1800
MANUFACTURER	VERTIFLO
MODEL NUMBER	SERIES 800
ACCESSORIES:	1, 2
NOTES:	--
REMARKS:	
1. INSTALL IN EXISTING SUMP. SEE FLOOR PLANS.	
ACCESSORIES:	
1. SEE WATER INC. WS SERIES DUPLEX CONTROL PANEL. NEMA 4X, WITH ALARM	
2. 4 FLOAT CONTROLS, PUMP STOP FLOAT, LEAD PUMP FLOAT, LAG PUMP FLOAT, HIGH LIQUID ALARM FLOAT. COORDINATE LENGTH OF FLOAT/ALARM CONDUCTORS.	

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PUMP SCHEDULE

DESIGNATION	GP
SERVICE	BUILDING SANITARY SEWER
TYPE	DUPLEX GRINDER PACKAGE
APPROX. IMPELLER SIZE	SPEC
GPM	50
TDH (FT H_2O)	40'
NPSH	SPEC
TEMPERATURE	275
CASING WORKING PRESSURE	--
POWER	2 HP
VOLTAGE / PHASE	208-230 V - 1
RPM	VARIABLE
POWER TYPE	CORDED
MANUFACTURER	LIBERTY PUMPS
MODEL NUMBER	D3648LSG - 36 x 48
ACCESSORIES:	1, 2
NOTES:	--
REMARKS:	
1. WEIGHT - 480 lbs. EMPTY, 2,240 lbs. FILLED.	
2. DIMENSIONS - 42"Ø x 48" H	
3. 211 gal WOUND FIBERGLASS TANK w/ STEEL COVER.	
4. STAINLESS STEEL GUIDE RAIL SYSTEM.	
ACCESSORIES:	
1. REFER TO DETAILS AND SPECIFICATIONS FOR ACCESSORIES.	
2. ALARM MODULE.	
NOTES:	
1. EQUAL OR BETTER UNITS FROM ALTERNATE MANUFACTURES SHALL BE ACCEPTED: ZOELLER, LITTLE GIANT	
2. COORDINATE WITH MANUFACTURER ON DRILLING OF HOLES FOR SANITARY SEWER PIPE CONNECTIONS.	
3. PROVIDE ANTI-VIBRATION PADS.	

GENERAL PLUMBING NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CURRENTLY ADOPTED CODES AT THE TIME OF THE PLAN DATE, INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING:

   IBC INTERNATIONAL BUILDING CODE
   IFC INTERNATIONAL FIRE CODE
   NFPA 101 LIFE SAFETY CODE
   IPC INTERNATIONAL PLUMBING CODE

2. PLUMBING SYSTEMS SHALL BE INSTALLED COMPLETE WITH ALL WORK, MATERIALS, AND EQUIPMENT CUSTOMARILY CONSIDERED PART OF SUCH WORK FOR FULLY OPERATIONAL, COMPLETE, AND CODE COMPLIANT SYSTEMS. PROVIDE AND INSTALL ALL PIPING, CONNECTIONS, VALVES, FITTINGS, AND FIXTURES COMPLETE WITH TRAPS, SUPPLIES, STOPS, ETC. AS REQUIRED.
3. PLANS ARE DIAGRAMMATIC AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEMS. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. ANY GROSS INTERFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING.
4. PLAN SCALES NOTED, IF ANY, ARE ONLY APPLICABLE TO PLANS PLOTTED AT FULL SIZE. CONTRACTOR IS CAUTIONED WHEN USING PLANS PLOTTED AT REDUCED SIZES. REGARDLESS, CONTRACTOR SHALL NOT SCALE PLANS, BUT SHALL REFER TO ACTUAL FIELD CONDITIONS AND/OR DIMENSIONED ARCHITECTURAL, STRUCTURAL, OR CIVIL PLANS.
5. SUBMITTAL REQUIREMENTS: CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL DETAILED PRODUCT INFORMATION ON ALL EQUIPMENT PROPOSED FOR USE. SUBMITTAL SHALL BE APPROVED, AND ENGINEER SHALL REVIEW AND APPROVE PRIOR TO EQUIPMENT PURCHASE. SUBMITTALS SHALL BE SUBMITTED IN ELECTRONIC (PDF) FORMAT WITH THE FILES NAMED WITH THE RELEVANT SPEC SECTION NUMBERING. PRIOR TO SUBMITTAL CONTRACTOR SHALL REVIEW AND CERTIFY BY SIGNATURE THE SUBMITTED EQUIPMENT MEET SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS, FITTINGS, AND CONSTRUCTION FEATURES RELATIVE TO EQUIPMENT. APPROVAL OF SUBMITTAL INFORMATION BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR'S OBLIGATION TO PROVIDE CODE COMPLIANT SYSTEMS.
6. LOCATE AND INSTALL ALL EQUIPMENT CONSIDERING MANUFACTURER'S RECOMMENDED CLEARANCES, MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND LISTING AGENCY CERTIFICATIONS.
7. INSTALL ALL SERVICEABLE EQUIPMENT, VALVES, UNIONS, CLEAN OUTS, ETC. IN ACCESSIBLE LOCATIONS.
8. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURERS. COORDINATE WITH ELECTRICAL CONTRACTOR.
9. FIRE STOPPING SYSTEM SHALL BE INSTALLED AT ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, OR CONSTRUCTION.
10. PROVIDE AND INSTALL ALL HANGERS AND SUPPORTS AS REQUIRED BY CODE CONSISTENT WITH THE MATERIAL OR EQUIPMENT SUPPORTED.
11. SLEEVE ALL PENETRATIONS THROUGH MASONRY OR CONCRETE FLOOR SLABS, WALLS, OR FOOTINGS.
12. THE PLANS AND SPECIFICATIONS FOR THIS WORK HAVE BEEN PREPARED WITH THE INTENT TO BE AS ACCURATE AND COMPLETE AS PRACTICAL, BUT ERRORS, OMISSIONS, AND CONFLICTS MAY EXIST. PRIOR TO SUBMITTING A BID FOR CONSTRUCTION THE WORK, THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS IN DETAIL, ANY QUESTIONS OR COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING A BID. BY SUBMITTAL A BID FOR THE WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS REVIEWED THE PLANS AND SPECIFICATIONS, UNDERSTANDS THE DESIGN INTENT, AND DOES NOT HAVE ANY FURTHER QUESTIONS OR COMMENTS.
13. WITHOUT EXCEPTION, ONLY PLUMBING COMPONENTS THAT HAVE BEEN CERTIFIED AS "LEAD FREE" SHALL BE ALLOWED TO BE INSTALLED ON POTABLE WATER SYSTEMS. REFERENCE NSF/ANSI 372.

DOMESTIC WATER NOTES:

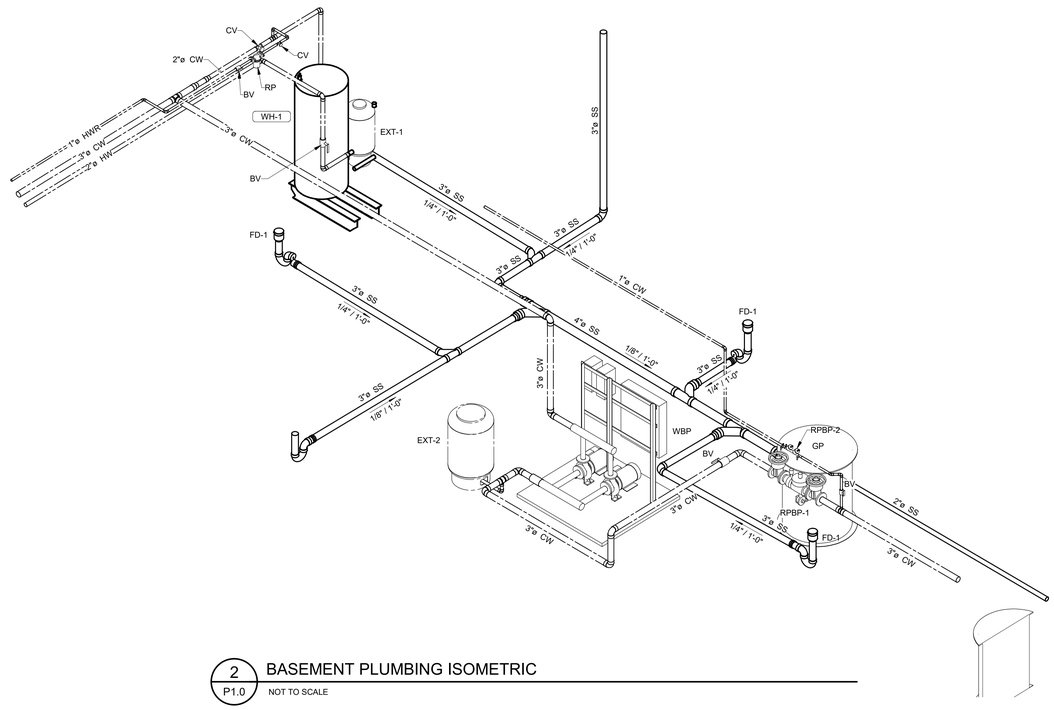
1. ROUTE ALL DOMESTIC WATER PIPING WITHIN THE THERMAL ENVELOPE OF BUILDING. PIPING IN EXTERIOR WALLS AND ATTICS SHALL BE AVOIDED. PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE INSIDE OF WALL INSULATION. PIPING SHOWN ROUTED OVERHEAD SHALL BE BENEATH THE ATTIC INSULATION.
2. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING PER THE PLUMBING MATERIALS SCHEDULE.
3. INSTALL CHROME PLATED ESCUTCHEON PLATES AT ALL PIPING PENETRATIONS THROUGH FINISH FLOORS, WALLS, OR CEILINGS.
4. FLUSH AND CLEAN DOMESTIC WATER LINES BEFORE CONNECTION FIXTURES.
5. TEST WATER PIPING TO 100 psi HYDROSTATIC PRESSURE FOR FOUR HOURS MINIMUM BEFORE BACK FILLING OR CONCEALMENT.
6. ALL CLEAN OUTS, VALVE BOXES, METER BOXES, AND SIMILAR STRUCTURES LOCATED IN PARKING LOTS, ROADWAYS, SIDEWALKS, INTERIOR GARAGES, ETC. WHERE VEHICLE TRAFFIC IS EXPECTED TO BE TRAFFIC RATED.
7. ROUTE ALL PIPING OVERHEAD UNLESS NOTED OTHERWISE.
8. PIPING NOTED TO BE ROUTED UNDERSLAB SHALL CONSIST OF CONTINUOUS PEX PIPE RUNS. ROUTE WITHIN MANUFACTURER APPROVED SLEEVE. DO NOT INSTALL FITTINGS UNDERSLAB.
9. INSTALL WATER HAMMER ARRESTORS PER DETAILS.
10. ALL FIXTURE STUB-OUTS TO BE COPPER.

SANITARY SEWER NOTES:

1. SLOPE INTERNAL HORIZONTAL WASTE LINES 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED.
2. SLOPE EXTERNAL HORIZONTAL WASTE LINES 1/8" PER FOOT MINIMUM UNLESS OTHERWISE NOTED.
3. SLOPE HORIZONTAL VENT LINES 1/4" PER FOOT MINIMUM BACK TO FIXTURE DRAIN.
4. ALL HORIZONTAL SWEEPS IN SEWER PIPING SHALL INCORPORATE 45° WYE FITTINGS.
5. MINIMUM INVERT OF ANY WASTE LINE SHALL BE AT 18" BELOW FINISH FLOOR UNLESS OTHERWISE NOTED.
6. VENT TERMINATIONS SHALL BE 10'-0" MINIMUM DISTANCE AWAY FROM AIR INTAKES OR WINDOWS.
7. LOCATE VENT TERMINATIONS SO TO MINIMIZE THE ABILITY FOR THEM TO BE SEEN FROM THE STREET LEVEL. COORDINATE LOCATIONS WITH ENGINEER.
8. TEST GRAVITY SEWER PIPING WITH 10' MINIMUM WATER HEAD PRESSURE FOR 24 HOURS AND MAINTAIN UNTIL AFTER BACKFILL IN COMPLETE.
9. TEST FORCE MAIN TO 5 psi GREATER THAN THE PUMP RATING FOR FOUR HOURS.
10. ALL FLOOR DRAINS, CLEAN OUTS, VALVE BOXES, AND SIMILAR STRUCTURES LOCATED IN PARKING LOTS, ROADWAYS, SIDEWALKS, ETC. WHERE VEHICLE TRAFFIC IS EXPECTED TO BE TRAFFIC RATED.

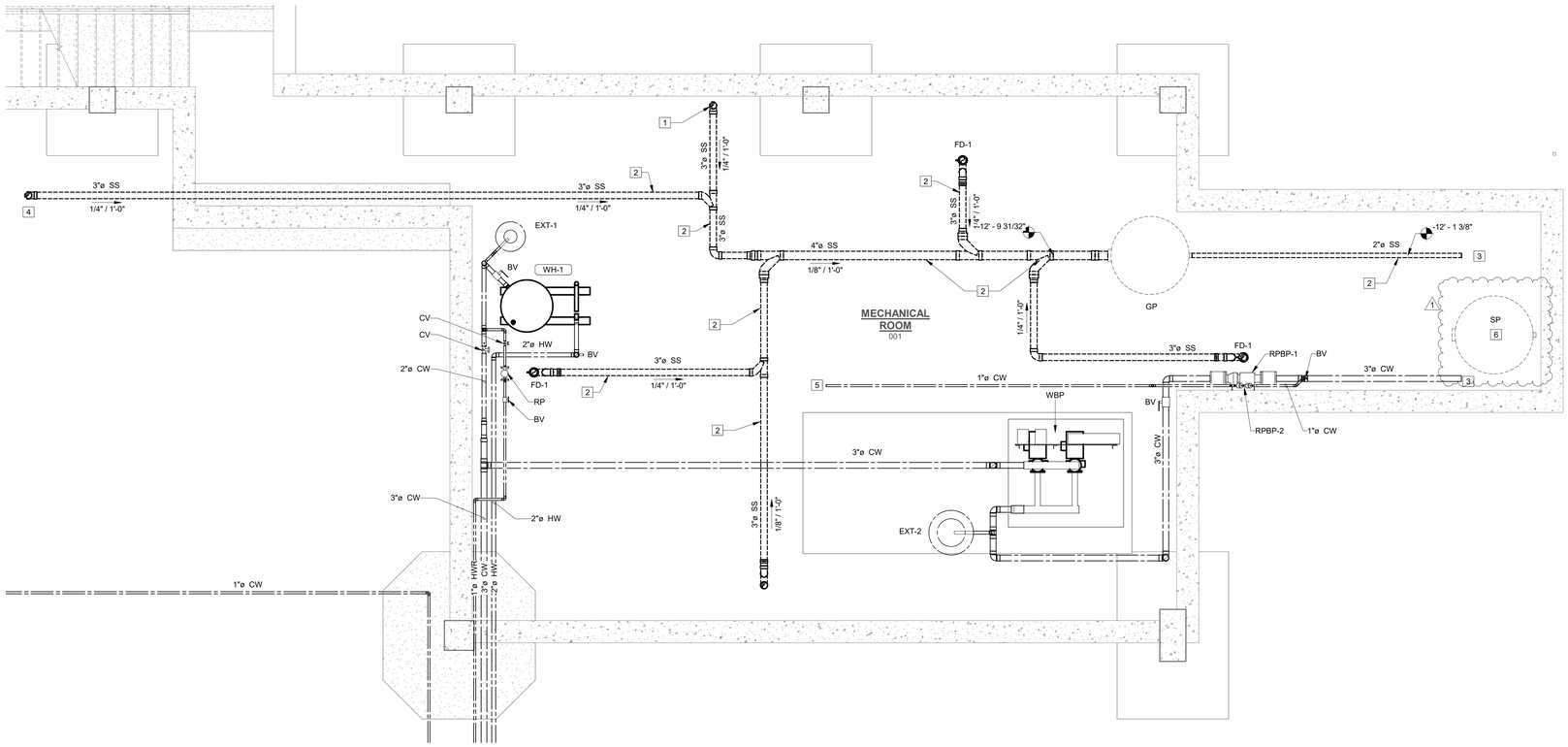
EXISTING CONDITIONS NOTES:

1. SUBSTANTIAL EFFORT HAS BEEN MADE TO IDENTIFY, LOCATE, AND DEPICT IN THE PLANS THE EXISTING CONDITIONS OF THIS PROJECT. REGARDLESS, BOTH EXISTING AND PROPOSED SYSTEMS, EQUIPMENT, AND CONDITIONS SHALL BE CONSIDERED DIAGRAMMATIC. THE CONTRACTOR SHALL CONSIDER THE ACTUAL FIELD CONDITIONS WHEN BIDDING AND PERFORMING THE WORK.
2. THE CONTRACTOR SHALL FIELD VERIFY BY MEASUREMENT THE EXACT LOCATIONS OF THE E



2 P1.0 **BASEMENT PLUMBING ISOMETRIC**

NOT TO SCALE



1 P1.0 **BASEMENT PLUMBING PLAN**

SCALE: 3/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 2'-8" 5'-4" 8'-0"

PLUMBING NOTES

NUMBERED NOTES

1. 3"Ø SANITARY SEWER DOWN FROM ABOVE.
2. ALL SANITARY SEWER PIPING AND FITTINGS IN THIS BASEMENT AREA TO BE CAST IRON.
3. SEE CIVIL SHEETS FOR CONTINUATION.
4. 3"Ø SANITARY SEWER DOWN FROM ABOVE. REFER TO VIEW 1 / P1.1 FOR CONTINUATION.
5. TAP 1"Ø COLD WATER LINE INTO HOT HYDRONIC SUPPLY UPSTREAM OF HEAT EXCHANGERS (HX-1 AND HX-2). REFER TO VIEW 1 / M2.0 FOR CONTINUATION.
6. EXISTING SUMP TO REMAIN. REPLACE PUMPS WITH NEW PER SCHEDULE. MAINTAIN EXISTING DISCHARGE PIPING TO STORM SYSTEM. INSTALL AUDIBLE AND VISUAL PUMP ALARM ON EXTERIOR OF BUILDING. COORDINATE.

1

PLUMBING LEGEND:

- SANITARY SEWER
- VENT AND/OR DRAIN ABOVE
- PRIMARY STORM DRAIN
- COLD WATER DISTRIBUTION
- HOT WATER DISTRIBUTION
- HOT WATER RETURN
- RISER DOWN
- RISER UP
- -1'-2" INVERT ELEVATION POINT WITH DIMENSION RELATIVE TO FINISH FLOOR

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
JUSTIN BLAKE NEWELL, REGISTERED ENGINEER, 05/16/2025, STATE OF TENNESSEE

SEAL
JUSTIN BLAKE NEWELL, REGISTERED ENGINEER, 03/28/2025, STATE OF TENNESSEE

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE
BASEMENT PLUMBING PLAN

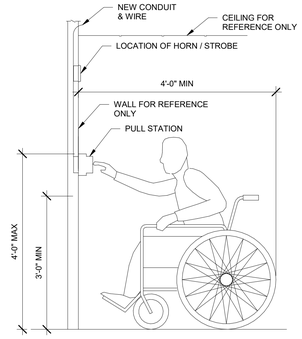
DRAWN BAE

REVIEW JBN

P1.0

MAFFETT OFTIS ENGINEERING, LLC
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2 FA0.1 ADA INSTALLATION OF MANUAL PULL STATIONS

NOT TO SCALE

FIRE ALARM LEGEND

GENERAL

- FAP — FIRE ALARM PANEL W/ BATTERY BACKUP
- AP — ANNUNCIATOR PANEL W/ BATTERY BACKUP

DEVICES

- S — CEILING-MOUNTED SMOKE DETECTOR
- H — CEILING-MOUNTED HEAT DETECTOR
- W — CEILING-MOUNTED CARBON MONOXIDE DETECTOR
- P — PULL STATION
- L — LIGHT STATION
- L — HORN & LIGHT STATION
- S — DUCT-MOUNTED SMOKE DETECTOR - R=RETURN, S=SUPPLY
- MAGNETIC DOOR HOLDER, WALL-MOUNT
- TAMPER SWITCH
- FLOW SWITCH

CONTROLS

- C — CONTROL MODULE
- R — RELAY
- M — MONITOR MODULE

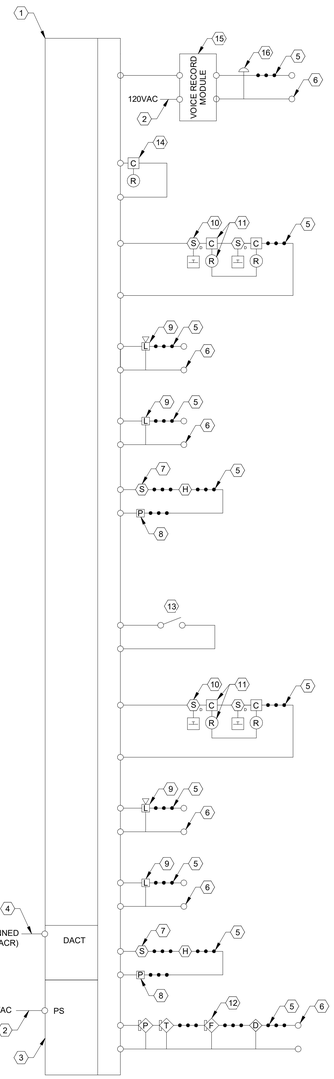
FIRE ALARM NOTES

GENERAL

1. APPLICABLE CODES INCLUDE, BUT ARE NOT RESTRICTED TO, THE LATEST ADOPTED VERSION OF:
   A.NFPA STANDARD 72 "NATIONAL FIRE ALARM AND SIGNALING CODE"
   B.NFPA 70 "NATIONAL ELECTRIC CODE"
   C.NFPA 101 "LIFE SAFETY CODE"
   D.ADA "AMERICANS WITH DISABILITIES ACT"
   E.UL "UNDERWRITERS LABORATORY"
   F.IBC "INTERNATIONAL BUILDING CODE"
   G.INTERNATIONAL FIRE CODE
2. SYSTEM SHALL BE INSTALLED, PROGRAMMED, AND TESTED COMPLETE WITH ALL COMPONENTS, MATERIALS, WORK, AND EQUIPMENT CUSTOMARILY CONSIDERED PART OF SUCH WORK FOR A FULLY OPERATIONAL, COMPLETE, AND COMPLIANT SYSTEM.
3. PLANS ARE DIAGRAMMATIC IN NATURE AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEM. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. GROSS DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
4. FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE-RATED WALLS, CEILINGS, OR CONSTRUCTION. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.
5. ALL COMPONENTS SHALL BE LISTED FOR INTENDED USE.
6. ALL SYSTEM AND PERIPHERAL COMPONENTS SHALL BE THE PRODUCT OF SIMPLEX.
7. INSTALLATION SHALL BE BY A STATE-LICENSED AND MANUFACTURER-CERTIFIED FIRE ALARM CONTRACTOR.
8. SYSTEM SHALL BE A CENTRALLY MONITORED, MICROPROCESSOR CONTROLLED, AND ADDRESSIBLE SYSTEM WITH MANUAL AND AUTOMATIC INITIATION, EMERGENCY BATTERY BACKUP, AND SUFFICIENT ZONE CAPACITY. THE SYSTEM IS TO BE CAPABLE OF ON-SITE PROGRAMMING TO ACCOMMODATE FACILITY EXPANSION, BUILDING PARAMETER CHANGES, OR CHANGES AS REQUIRED BY LOCAL CODES. ALL SOFTWARE OPERATIONS ARE TO BE STORED IN A NON-VOLATILE, PROGRAMMABLE MEMORY. LOSS OF PRIMARY AND SECONDARY POWER SHALL NOT ERASE THE INSTRUCTIONS STORED IN MEMORY.
9. DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 90A "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS".
10. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED AND CONNECTED BY THE FIRE ALARM CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. DUCT DETECTORS SHALL INCLUDE A RESET SWITCH. SMOKE DETECTOR DESIGNED TO SHUT DOWN THE SUPPLY AIR FAN IN CASE OF FIRE.
11. SMOKE DETECTORS SHALL INCLUDE A BUILT-IN TEST SWITCH. CONCEALED DETECTORS SHALL HAVE A REMOTE "LED" INDICATOR LIGHT AND TEST SWITCH.
12. ALL CIRCUITS AND COMPONENTS SHALL BE RECESS MOUNTED UNLESS OTHERWISE INDICATED.
13. THE SYSTEM SHALL BE ELECTRICALLY SUPERVISED AND SHALL MONITOR THE INTEGRITY OF CIRCUIT CONDUTORS AND POWER SUPPLIES.
14. NETWORK CIRCUITS SHALL BE CLASS B. CIRCUITS SHALL BE ROUTED CONCEALED OR IN CONDUIT. SIZES AND NUMBER OF WIRES SHALL BE AS SPECIFIED BY THE MANUFACTURER EXCEPT AS OTHERWISE NOTED ON PLANS. FINAL CONNECTION BETWEEN THE EQUIPMENT AND THE WIRING SYSTEM SHALL BE MADE UNDER TEH DIRECT SUPERVISION OF A REPRESENTATIVE OF THE MANUFACTURER. COORDINATE AND ADJUST FIRE ALARM WIRING TO REDUCE VOLTAGE DROP SO EACH DEVICE IS SUPPLIED WITH ADEQUATE VOLTAGE FOR OPERATION. INSTALLATION SHALL COMPLY WITH APPLICABLE CODE.
15. THE COMPLETED SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA STANDARD 72. TESTING SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER, THE STATE FIRE MARSHAL HAVING JURISDICTION, AND THE ENGINEER.
16. PROVIDE ON-PREMISE MAINTENANCE DURING NORMAL WORKING HOURS AT NO COST (IF DUE TO EQUIPMENT FAILURE) FOR A PERIOD OF 12 MONTHS FROM DATE OF EQUIPMENT ACCEPTANCE BY AHJ.
17. CONTRACTOR SHALL SUBMIT TWO COMPLETE BOUND COPIES OF EQUIPMENT OPERATING INSTRUCTIONS AND "AS-WIRED" DRAWINGS.
18. CONTRACTOR SHALL PROVIDE A MINIMUM OF EIGHT HOURS INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE SYSTEM TO THE OWNER'S REPRESENTATIVE.
19. STROBES THAT ARE IN VISIBLE SIGHT OF ONE ANOTHER SHALL BE SYNCHRONIZED.
20. CEILING MOUNTED SMOKE DETECTORS SHALL BE LOCATED AS SHOWN AND NO CLOSER THAN 3' AWAY FROM HVAC SUPPLY AIR VENTS, DOORWAYS, OR WINDOWS.
21. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
22. THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
23. UTILIZE SCUFF GUARDS FOR ALL STUB-OUT ENDS.

SPECIFIC

1. FIRE SPRINKLER FLOW SWITCHES TO BE MONITORED BY FIRE ALARM SYSTEM. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.
2. FIRE SPRINKLER CONTROL VALVES AND POST INDICATOR VAVLE TO BE MONITORED BY FIRE ALARM SYSTEM. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.
3. FIRE ALARM SYSTEM SHALL BE SIZED TO BE CAPABLE OF ACCOMMODATING AN ADDITIONAL 25% EXPANSION OF CAPACITY.



FA RISER NOTES

NUMBERED NOTES

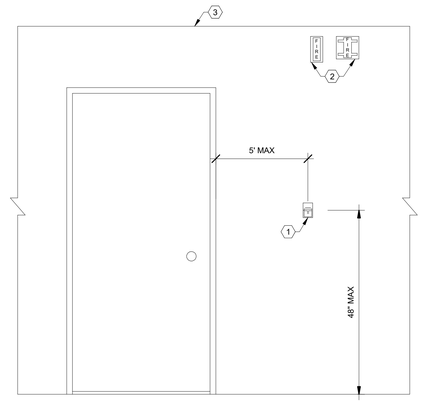
1. PROVIDE AND INSTALL FIRE ALARM PANEL AND DEVICES. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE ROUGH-IN. PROVIDE EXTRA 25% CAPACITY IN FIRE ALARM PANEL.
2. ELECTRICAL CONTRACTOR SHALL RUN 120VAC DEDICATED CIRCUIT TO FIRE ALARM PANEL. COORDINATE LOCATION WITH FIRE ALARM CONTRACTOR BEFORE ROUGH-IN.
3. POWER SUPPLY AND BACKUP BATTERY SHALL BE ABLE TO SUPPLY THE LOADS OF THE FIRE ALARM SYSTEM.
4. PROVIDE AND INSTALL DACT MODULE TO BE ROUTED TO 24 HOUR MANNED STATION (OR DACR). INSTALL TWO DEDICATED TELEPHONE LINES. COORDINATE LOCATION.
5. TYPICAL, COORDINATE QUANTITIES WITH FIRE ALARM PLANS.
6. TYPICAL, TERMINATE PER MANUFACTURER'S REQUIREMENTS.
7. TYPICAL, PROVIDE AND INSTALL CEILING MOUNTED SMOKE AND HEAT DETECTORS. REFER TO FIRE ALARM DESIGN FOR DEVICE LOCATION. COORDINATE WITH ARCHITECTURAL BEFORE ROUGH-IN.
8. TYPICAL, PROVIDE AND INSTALL MANUAL PULL STATION. REFER TO FIRE ALARM DESIGN FOR LOCATION. COORDINATE WITH ARCHITECTURAL BEFORE ROUGH-IN.
9. TYPICAL, PROVIDE AND INSTALL HORN, STROBE, AND/OR SPEAKER. COORDINATE WITH ARCHITECTURAL BEFORE ROUGH-IN. REFER TO FUNCTIONALITY MATRIX FOR ACTION.
10. TYPICAL, FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR RETURN DUCTS TO BE INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE REMOTE TEST SWITCH AS NEEDED. COORDINATE LOCATION TO OPTIMIZE SMOKE DETECTION. COORDINATE WITH LIGHTING, MECHANICAL, AND ARCHITECTURAL BEFORE ROUGH-IN.
11. TYPICAL, PROVIDE AND INSTALL RELAY AND CONTROL MODULE TO PROVIDE HVAC-DESIRED FUNCTION, SUCH AS FAN SHUTDOWN OR DOOR RELEASE. REFER TO FUNCITONALITY MATRIX FOR ACTION.
12. FIRE PROTECTION CONTRACTOR SHALL SUPPLY AND INSTALL FLOW AND TAMPER SWITCHES. FIRE ALARM CONTRACTOR SHALL RUN CABLE AND CONNECT TO FIRE ALARM PANEL.
13. FUTURE DRY CONTACT.
14. CONTROL DEVICE TO MUTE SOUND SYSTEM. COORDINATE WITH SOUND SYSTEM.
15. PROVIDE AND INSTALL VOICE RECORD MODULE TO PLAY PRE-RECORDED MESSAGE. SHALL BE EVAX-200 OR EQUAL. COORDINATE WITH MANUFACTURER.
16. TYPICAL, PROVIDE AND INSTALL SPEAKER/STROBE. REFER TO FUNCTIONALITY MATRIX FOR ACTION. STROBE SHALL BE 1 FLASH/SEC @ CANDELA SPECIFIED BY CODE. SHOWN AS SPEAKER BUT IS PART OF A TOTAL SPEAKER/STROBE DEVICE. STROBE RAN FROM INDIVIDUAL ZONE CIRCUIT.

GENERAL NOTES

A. COORDINATE EXACT QUANTITIES OF DEVICES AND CIRCUITS WITH FIRE ALARM PLANS.

1 FA0.1 FIRE ALARM RISER

NOT TO SCALE



3 FA0.1 DEVICE MOUNTING DTL

NOT TO SCALE

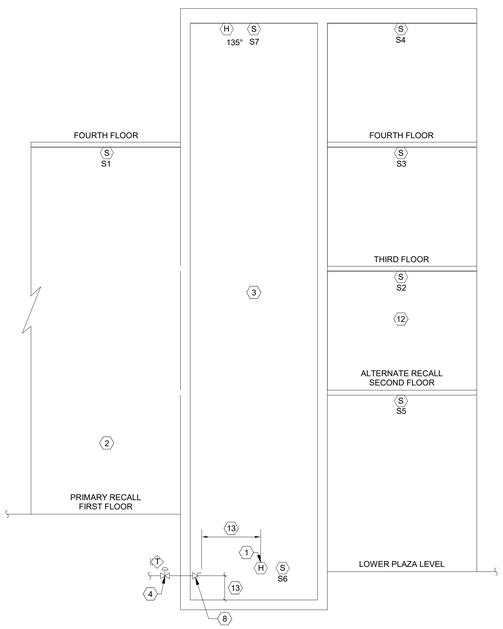
FA DEVICE NOTES

NUMBERED NOTES

1. PULL STATION.
2. FIRE ALARM NOTIFICATION DEVICES MOUNTED AT 90" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
3. CEILING, COORDINATE HEIGHT WITH ARCHITECTURAL.

GENERAL NOTES

A. MOUNTING HEIGHTS OF DEVICE BOXES MAY BE ADJUSTED IN MASONRY WALLS TO HAVE TOP OR BOTTOM EDGE OF DEVICE TO LINE UP WITH A JOINT.
B. SEE FLOOR PLANS FOR LOCATION OF DEVICES.
C. FOR REFERENCE ONLY. NOT ALL DEVICES INCLUDED IN THIS PROJECT. COORDINATE WITH PLANS.



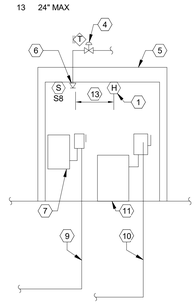
4 FA0.1 ELEVATOR FIRE ALARM & SPRINKLER DTL

NOT TO SCALE

FA ELEVATOR

NUMBERED NOTES

1. HEAT DETECTOR - 135°F - QUICK SENSITIVITY. MOUNTED WITHIN TWO FEET OF SPRINKLER HEAD, COORDINATE WITH FIRE PROTECTION.
2. ELEVATOR LOBBY - PRIMARY RECALL FLOOR
3. ELEVATOR SHAFT
4. OS&Y VALVE WITH TAMPER SWITCH, COORDINATE WITH FIRE PROTECTION
5. ELEVATOR MACHINE ROOM
6. PENDANT SPRINKLER WITH GUARD - 212°F - STANDARD RESPONSE
7. ELEVATOR CONTROL
8. SIDEWALL SPRINKLER WITH GUARD - 212°F - STANDARD RESPONSE
9. CONTROL POWER
10. ELEVATOR POWER, SHUNT TRIP CONTROLLED. FIRE ALARM PANEL SHALL ACTIVATE SHUNT TRIP UPON HEAT DETECTOR ALARM SERVING MACHINE ROOM, PIT, OR ELEVATOR SHAFT
11. ELEVATOR POWER UNIT
12. ELEVATOR LOBBY - ALTERNATE RECALL FLOOR
13. 24" MAX



FIRE ALARM SYSTEM FUNCTIONALITY MATRIX

NOTES:
• DACT: DIGITAL ALARM COMMUNICATOR TRANSMITTER [NFPA 72 8.5.3.2.1.3]
• DACR: DIGITAL ALARM COMMUNICATOR RECEIVER [NFPA 72 8.5.3.2.2.2]

DETECTION:	REPORT AT FIRE ALARM PANEL	REPORT AT FIRE ALARM ANNUNCIATOR PANEL	DACT REPORT TO 24 HR MANNED DACR STATION	SHUT DOWN ZONE AIR HANDLER	ACTIVATE ALL FIRE ALARM HORNS	ACTIVATE ALL FIRE ALARM STROBES	RECALL ELEVATORS TO PRIMARY RECALL LEVEL	RECALL ELEVATORS TO ALTERNATE RECALL LEVEL	CLOSE HVAC SMOKE DAMPERS
LOSS OF BUILDING POWER	•	•							
FIRE ALARM SYSTEM TROUBLE	•	•	•						
FIRE ALARM SYSTEM LOW BATTERY	•	•	•						
MANUAL PULL STATION ACTIVATED	•	•	•		•	•			•
AREA HEAT DETECTOR ACTIVATED	•	•	•		•	•			•
AREA SMOKE DETECTOR ACTIVATED	•	•	•		•	•	•		•
DUCT-MOUNTED SMOKE DETECTOR ACTIVATED	•	•	•	•	•	•			•
FIRE PROTECTION TAMPER SWITCH ACTIVATED	•	•	•			•			•
FIRE PROTECTION FLOW SWITCH ACTIVATED	•	•	•		•	•	•		•
LOSS OF TELEPHONE LINE	•	•							
S1 PRIMARY SMOKE DETECTOR ACTIVATED	•	•	•		•	•		•	•
ELEVATOR ASSOCIATED SMOKE/HEAT DETECTOR ACTIVATED	•	•	•		•	•	•		•

FIRE ALARM LOAD MATRIX

DESCRIPTION	VOLTS (VDC)	CURRENT (mA) QUIESCENT	CURRENT (mA) ALARM	SUB-TOTAL (mA) QUIESCENT	SUB-TOTAL (mA) ALARM
FIRE ALARM PANEL	24	290.00	530.00	290.00	530.00
ANNUNCIATOR PANEL	24	10.00	10.00	10.00	10.00
PHOTOELECTRIC DUCT SUPPLY SMOKE DETECTOR WITH ISOLATOR BASE	24	0.65	0.65	0.65	0.65
PHOTOELECTRIC DUCT RETURN SMOKE DETECTOR WITH ISOLATOR BASE	24	0.65	0.65	0.65	0.65
INTELLIGENT HEAT DETECTOR WITH ISOLATOR BASE	24	0.65	0.65	0.65	0.65
CONTROL MODULE	24	0.65	0.65	0.65	0.65
15cd - FIELD CONFIGURABLE STROBE	24	0.00	66.00	0.00	66.00
15cd - FIELD CONFIGURABLE STROBE-SPEAKER	24	0.00	66.00	0.00	66.00
30cd - FIELD CONFIGURABLE STROBE-SPEAKER	24	0.00	94.00	0.00	94.00
75cd - FIELD CONFIGURABLE STROBE-SPEAKER	24	0.00	158.00	0.00	158.00
ADDRESSABLE PULL STATION	24	0.00	0.65	0.00	0.65
TAMPER SWITCH	24	0.10	0.10	0.10	0.10
FLOW SWITCH	24	0.10	0.10	0.10	0.10

MODE QUIESCENT (mA)	MODE ALARM (mA)	QUIESCENT (mAh)	ALARM (mAh)	TOTAL (mAh)	x1.2 SAFETY FACTOR (mAh)	MIN BATTERY SIZE TOTAL (Ah)
963.35	14,971.75	23,120.40	2,495.29	25,615.69	30,738.83	30.74

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W&O Construction, 150 Construction Drive, Livingston, TN 38570, Ph. (931) 403-1000, www.wocc.com

PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

OWNER: TENNESSEE TECH. UNIVERSITY
LOCATION: COOKEVILLE, TN

SEAL
GARY DALE LOFTIS, REGISTERED ENGINEER, 03/28/2025, STATE OF TENNESSEE

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE: LEGENDS & SCHEDULES

DRAWN: CWA

REVIEW: AJG

FA0.1

MAFFETT OFTIS ENGINEERING, LLC
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ELECTRICAL NOTES

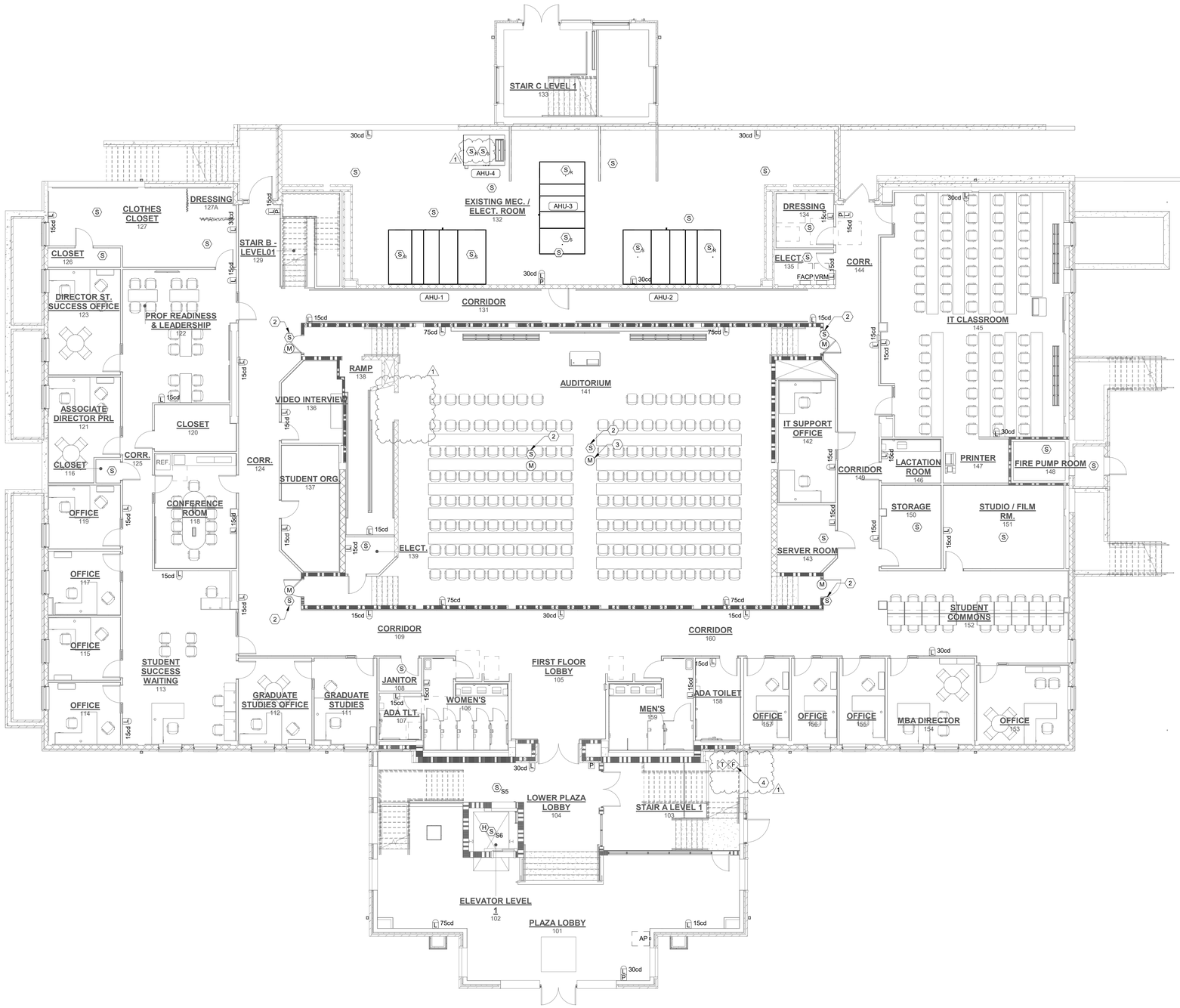
NUMBERED NOTES

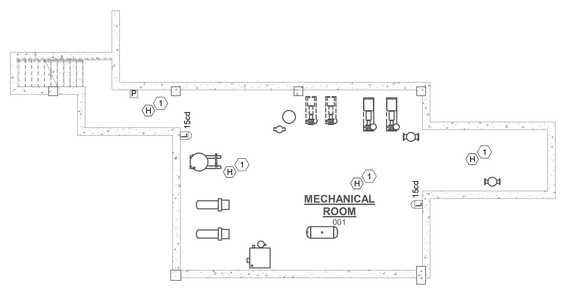
1. HIGH TEMPERATURE HEAT DETECTOR. 135° F. COORDINATE LOCATIONS WITH PIPING AND MECHANICAL EQUIPMENT IN THIS SPACE.
2. DUCT-MOUNTED SMOKE DETECTOR FOR HVAC DAMPERS. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH MECHANICAL.
3. TYP., CONTROL MODULE FOR ACTIVATION OF HVAC DAMPERS. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH MECHANICAL.
4. COORDINATE EXACT LOCATIONS OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION.

GENERAL NOTES

A. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS, CASEWORK, AND CEILING PLANS.

B. COORDINATE NOTIFICATION DEVICE LOCATIONS WITH OTHER WALL MOUNTED DEVICES (I.E. TELEVISION, PROJECTOR SCREEN, ETC.)





1 FA1.1 FIRST FLOOR FIRE ALARM PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

2 FA1.1 BASEMENT FIRE ALARM PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

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OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS
REGISTERED ENGINEER
AGRICULTURE
MECHANICAL
STATE OF TENNESSEE
03/28/2025

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ISSUE DATE 03/28/2025

SHEET TITLE
FIRST FLOOR FIRE ALARM PLAN

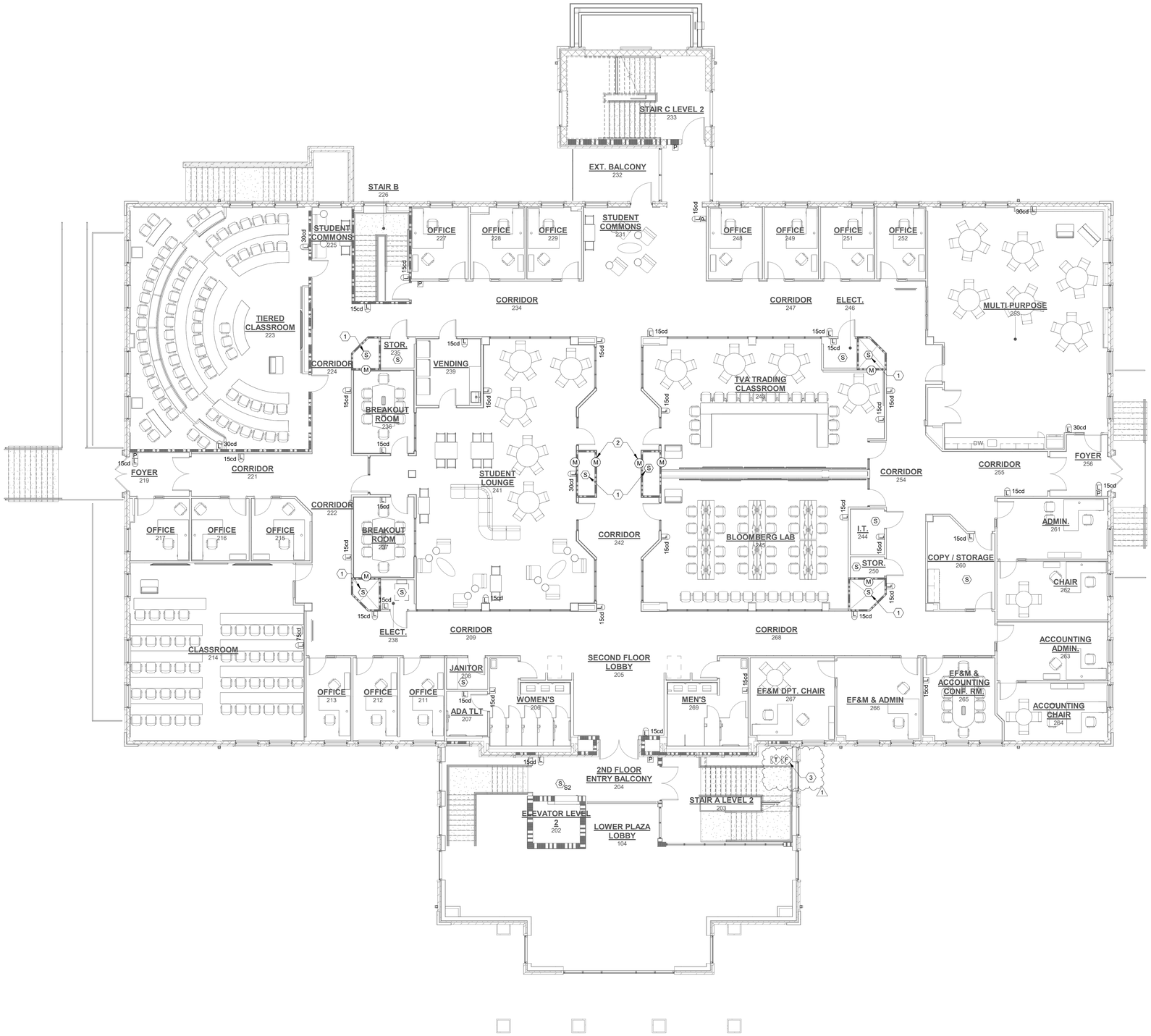
DRAWN CWA

REVIEW AJG

FA1.1

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ELECTRICAL NOTES

NUMBERED NOTES

1. DUCT-MOUNTED SMOKE DETECTOR FOR HVAC DAMPERS. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH MECHANICAL.
2. TYP. CONTROL MODULE FOR ACTIVATION OF HVAC DAMPERS. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH MECHANICAL.
3. COORDINATE EXACT LOCATIONS OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION.

GENERAL NOTES

- A. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS, CASEWORK, AND CEILING PLANS.
- B. COORDINATE NOTIFICATION DEVICE LOCATIONS WITH OTHER WALL MOUNTED DEVICES (I.E. TELEVISION, PROJECTOR SCREEN, ETC.)

1 FA1.2 SECOND FLOOR FIRE ALARM PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

NORTH

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PROJECT
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JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS REGISTERED ENGINEER 05/16/2025 STATE OF TENNESSEE
03/28/2025

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ISSUE DATE 03/28/2025

SHEET TITLE SECOND FLOOR FIRE ALARM PLAN

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FA1.2

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ELECTRICAL NOTES

NUMBERED NOTES

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2. TYP. CONTROL MODULE FOR ACTIVATION OF HVAC DAMPERS. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH MECHANICAL.
3. COORDINATE EXACT LOCATIONS OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION.

GENERAL NOTES

A. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS, CASEWORK, AND CEILING PLANS.

B. COORDINATE NOTIFICATION DEVICE LOCATIONS WITH OTHER WALL MOUNTED DEVICES (I.E. TELEVISION, PROJECTOR SCREEN, ETC.)



1 FA1.3 THIRD FLOOR FIRE ALARM PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

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LOCATION
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OWNER
TENNESSEE TECH. UNIVERSITY

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ISSUE DATE 03/28/2025

SHEET TITLE THIRD FLOOR FIRE ALARM PLAN

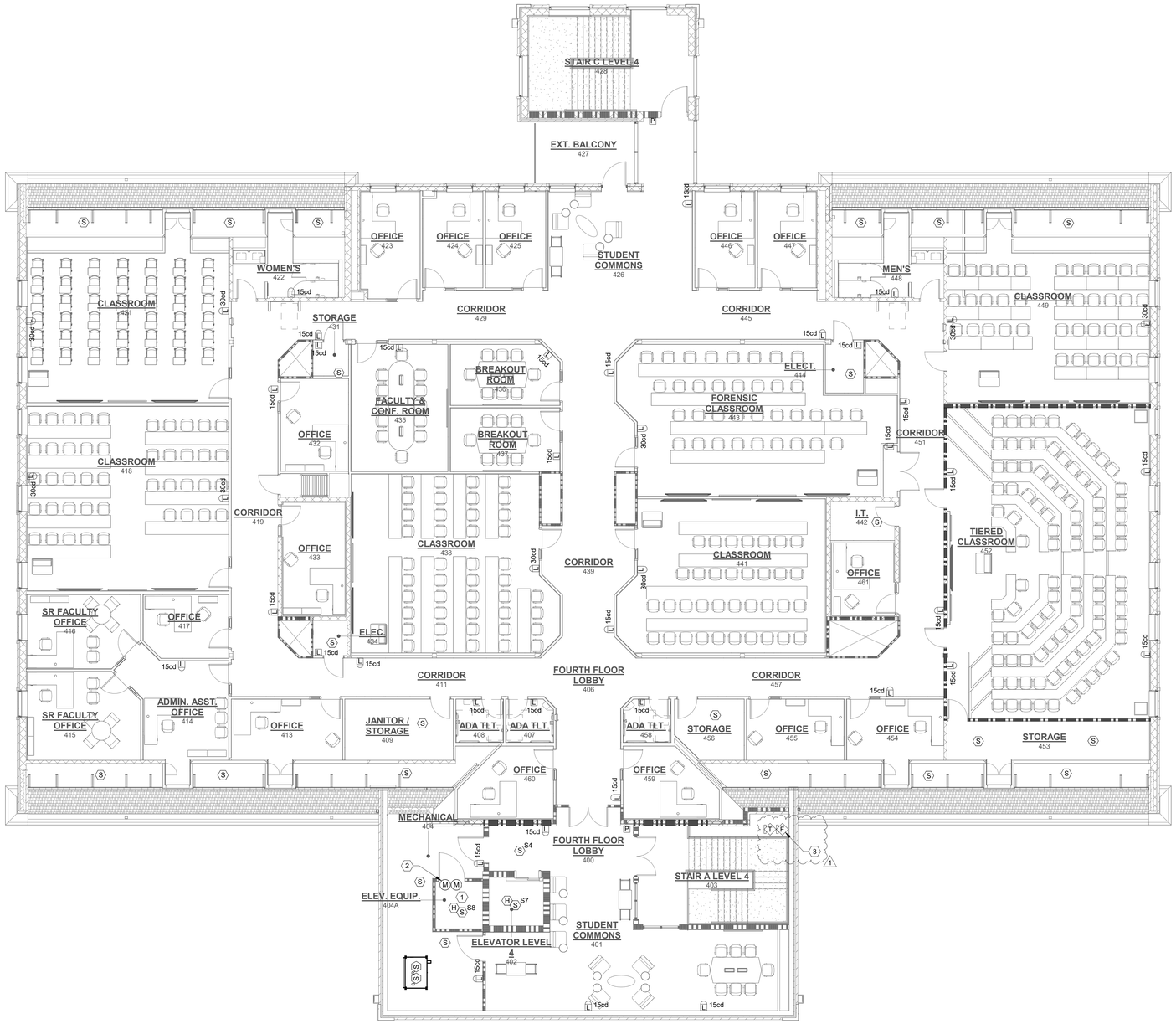
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FA1.3

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ELECTRICAL NOTES

NUMBERED NOTES

1. COORDINATE EXACT DEVICE LOCATIONS AND REQUIREMENTS WITH ELEVATOR MANUFACTURER AND FIRE PROTECTION.
2. 24VDC MODULE FOR ELEVATOR POWER SHUNT TRIP CONTROL.
3. COORDINATE EXACT LOCATIONS OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION.

GENERAL NOTES

A. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS, CASEWORK, AND CEILING PLANS.

B. COORDINATE NOTIFICATION DEVICE LOCATIONS WITH OTHER WALL MOUNTED DEVICES (I.E. TELEVISION, PROJECTOR SCREEN, ETC.)

1 FA1.4 — FOURTH FLOOR FIRE ALARM PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

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LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS — REGISTERED ENGINEER — STATE OF TENNESSEE — 05/16/2025
GARY DALE LOFTIS — REGISTERED ENGINEER — STATE OF TENNESSEE — 03/28/2025

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SHEET TITLE
FOURTH FLOOR FIRE ALARM PLAN

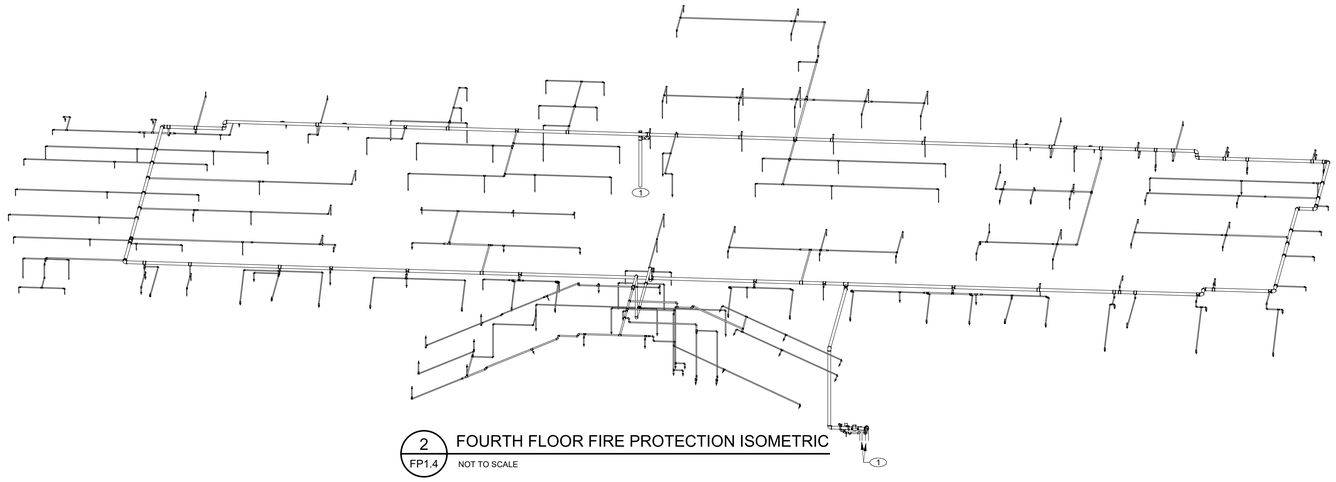
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FA1.4

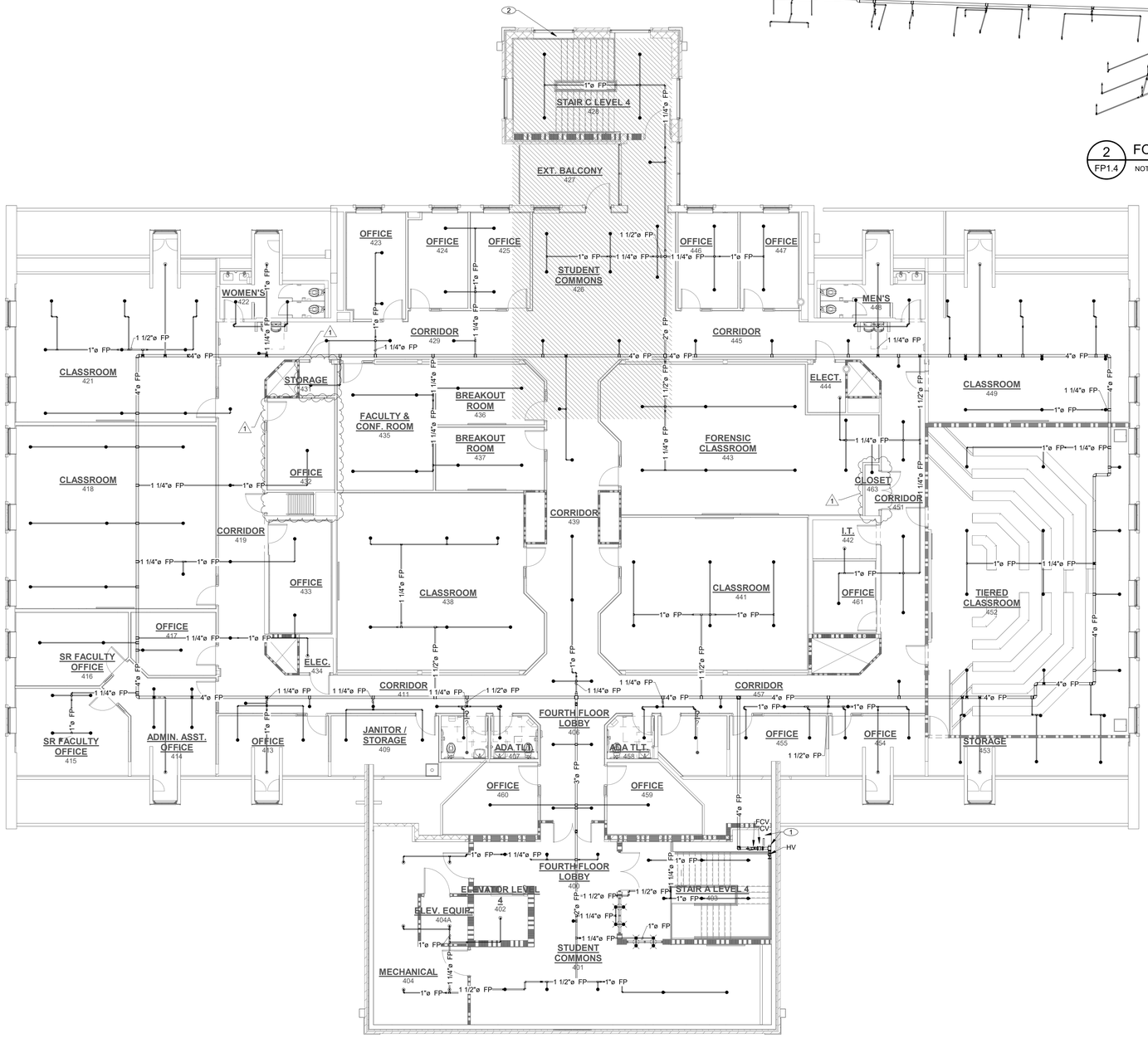
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2 FP1.4 FOURTH FLOOR FIRE PROTECTION ISOMETRIC

NOT TO SCALE



1 FP1.4 FOURTH FLOOR FIRE PROTECTION PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

NORTH

FIRE PROTECTION NOTES

GENERAL NOTES

- A COORDINATE ROUTING OF PIPE WITH OTHER TRADES
- B ALL UPRIGHT SPRINKLER HEADS TO BE WITHIN 12" OF ROOF/CEILING DECK
- C COORDINATE SPRINKLER HEADS WITH ARCHITECTURAL RCP
- D PROVIDE SYSTEM DRAINS AS REQUIRED
- E CONCEALED SPACES ABOVE CEILINGS ARE NON-COMBUSTIBLE
- F ALL EXTERIOR OVERHANGS ARE NON-COMBUSTIBLE
- G ALL SPRINKLER HEADS IN MECHANICAL ROOM OR BASEMENT WITH STEAM EQUIPMENT SHALL BE 212F HEADS

NUMBERED NOTES

1 DOWN TO BELOW
2 REMOTE AREA
3 MONITORED GATE VALVE

PLUMBING LEGEND:

- FIRE PROTECTION (WET)
- RISER DOWN
- RISER UP
- TYPICAL PENDENT SPRINKLER
- TYPICAL UPRIGHT SPRINKLER
- HORIZONTAL SIDEWALL WINDOW SPRINKLER
- TYPICAL SIDEWALL SPRINKLER

RATED WALL SYMBOL LEGEND

1-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

2-HOUR FIRE BARRIER

FLOOR TO UNDERSIDE OF DECK ABOVE AT CONC. BLOCK LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U905 (NONBEARING) AND UL DESIGN U905 (LOAD BEARING), TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0022 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0030 (WALL PARALLEL TO DECK FLUTES)

AT GYPSUM BOARD WALL LOCATIONS (SEE FLOOR PLANS) USE UL DESIGN U419 WITH; TERMINATE AT METAL DECK WITH UL SYSTEM HW-D-0024 (WALL PERPENDICULAR TO DECK FLUTES) OR HW-D-0029 (WALL PARALLEL TO DECK FLUTES)

SHAFT WALL - PER IBC 2012-SECTION 713.2
USE UL DESIGN U415, TERMINATE AT METAL DECK WITH UL SYSTEMS HW-D-0549 (FLOOR OR ROOF DECK WITH FLUTES) OR HW-D-0480 (FLOOR OR ROOF DECK WITHOUT FLUTES)

SMOKE PARTITION PER IBC 2012 SECTION 710 AND NFPA 8.3.4.2, WALL SHALL EXTEND TO DECK.

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.

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05/16/2025

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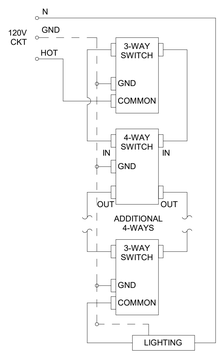
SHEET TITLE
FOURTH FLOOR FIRE PROTECTION PLAN

DRAWN RFS

REVIEW JBN

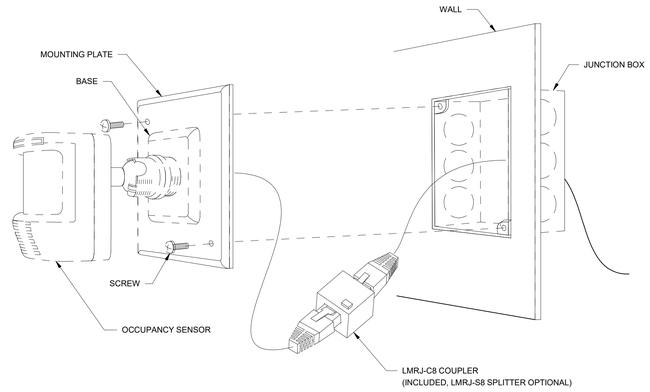
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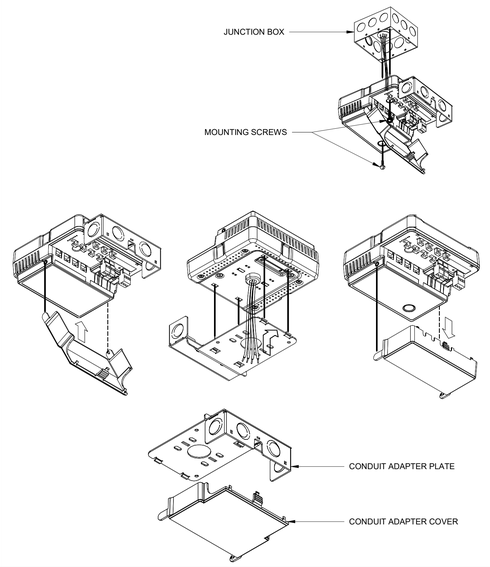
1 E0.3 — 3 & 4-WAY LGT SWITCH WIRING DTL

NOT TO SCALE



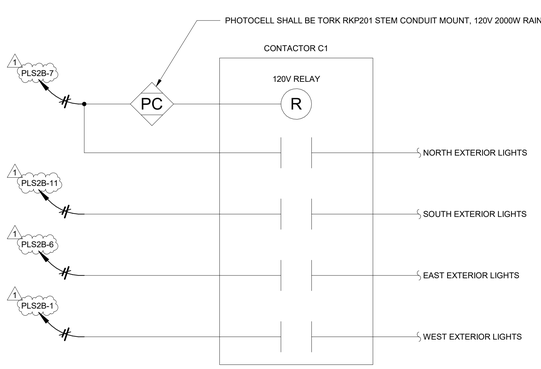
2 E0.3 — WALL MOUNTED OCCUPANCY SENSOR MOUNTING DTL

NOT TO SCALE



3 E0.3 — LIGHTING ROOM CONTROLLER DTL

NOT TO SCALE



4 E0.3 — EXTERIOR LIGHTING CONTACTOR DETAIL

NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

NOTES:
A. HATCHING ON PLANS INDICATES 24/7 LIGHT WIRED HOT TO CIRCUIT INDICATED ON PLANS
B. HATCHING ON PLANS INDICATES ILLUMINATED SIDES OF LIGHT - SEE PLANS FOR CHEVRONS

LABEL	MANUFACTURER	MODEL	MOUNTING	LAMP	DESCRIPTION	NOTES	WATTS	VOLTS
A	SIGNIFY	2FPZ42B840-4-ADS-UNV-DIM	RECESSED	LED	2'x4' LINEAR FIXTURE		40	120
A2	SIGNIFY	2FPZ38B840-2-ADS-UNV-DIM	RECESSED	LED	2'x2' LINEAR FIXTURE		34	120
B	SIGNIFY	1FPZ38B840-4-ADS-UNV-DIM-FSF14	SURFACE	LED	1'x4' LINEAR FIXTURE		30	120
C1	SIGNIFY	P6RDL10940MCCZ10U	RECESSED	LED	1000 LUMEN 6" CAN LIGHT		8	120
C2	SIGNIFY	P3RDL15940MCCZ10U	RECESSED	LED	1500 LUMEN 6" CAN LIGHT		12	120
C3	SIGNIFY	P6RDL30940MCCZ10U	RECESSED	LED	3000 LUMEN 6" CAN LIGHT		24	120
C4	SIGNIFY	P6RDL15940MCCZ10U	RECESSED	LED	WET-LISTED 1500 LUMEN 6" CAN LIGHT		12	120
D	H.E. WILLIAMS	SLF-4-LS2-8-40-HIA/TP	WALL	LED	WALL MOUNTED STAIR LIGHT		37	120
F1	GARDCO	101L-16L-530-NW-G2-3-UNV	WALL	LED	EXTERIOR WALL PACK. COORDINATE FINISH WITH ARCHITECT AND OWNER		28	120
F2	PHILIPS	B5510 BLK F F	WALL	LED	EXTERIOR WALL SCONCE		19	120
G	ETC	S4WRDDG120FB	YOKE	LED	DIMMABLE THEATRICAL SPOTLIGHT		150	120
L4	SIGNIFY	FSI440L840-UNV-DIM-DACHxx	CHAIN	LED	CHAIN HUNG 4' LINEAR FIXTURE		30	120
P	STONCO	VWXL-14-NW-G1-8	WALL	LED	ELEVATOR PIT LIGHT		14	120
R1e	EUREKA	4802-54	SUSPENDED	LED	DECORATIVE 54" RING LIGHT FIXTURE 4000K		78	120
R3	LIGHTART	COL-CON-CIGR-36H-X-840CK-STD-WPC-WH	SUSPENDED	LED	DECORATIVE 36" FIXTURE. COORDINATE MATERIAL WITH ARCHITECT & OWNER		26	120
R4	LIGHTART	COL-CON-CIGR-48H-X-840CK-STD-WPC-WH	SUSPENDED	LED	DECORATIVE 48" FIXTURE		34	120
R6	LIGHTART	COL-CON-CIGR-72H-X-840CK-STD-WPC-WH	SUSPENDED	LED	DECORATIVE 72" FIXTURE		60	120
S12	HOLOPHANE	GVD3 P30 40K MVOLT MS GL5 BK RB EG TBK AO	POLE	LED	CAMPUS STANDARD SITE FIXTURE ON 12' POLE. COORDINATE WITH TTU		61	120
S15	HOLOPHANE	GVD3 P30 40K MVOLT MS GL5 BK RB EG TBK AO	POLE	LED	CAMPUS STANDARD SITE FIXTURE ON 15' POLE. COORDINATE WITH TTU		61	120
T19	DAY-BRITE	LINCS100EL28935UNVWHGDI MOSHL	UNDERCABINET	LED	19", 90CRI, 3500K, WHITE UNDERCABINET LIGHT WITH OCC SENSING		5	120
T28	DAY-BRITE	LINCS100EL28935UNVWHGDI MOSHL	UNDERCABINET	LED	28", 90CRI, 3500K, WHITE UNDERCABINET LIGHT WITH OCC SENSING		7	120
U	LITON	WD2Q360	WALL	LED	UP/DOWN WALL SCONCE		45	120
V	LITHONIA	FMVCSLS 24IN MVOLT 30KSSK40K 90CRI BZ	SURFACE	LED	4000K VANITY LIGHT		27	120
X1	BEGHELLI	BRUHTLRUM	SURFACE	LED	EDGE-LIT EXIT LIGHT COORDINATE SIDES AND CHAMFERS WITH PLANS		5	120

CONTACTOR SCHEDULE

LABEL	SIZE	AREA	CIRCUITS	CONTROL
C1	4-POLE - 40A	EXTERIOR	PLS2B - 1, 6, 7, & 11	PHOTOCELL

LIGHTING CONTROL SETTINGS

GENERAL NOTES

A. ALL LIGHTING CONTROLS TO BE PROGRAMMED WITH SCENES AS SHOWN IN SCHEDULE BELOW UNLESS OTHERWISE NOTED. REFER TO NUMBERED NOTES FOR ADDITIONAL INFORMATION.
B. SPACES MAY NOT CONTAIN ALL CONTROL ZONES. REFER TO LIGHTING PLANS FOR CONTROL ZONES IN EACH SPACE.
C. LIGHTING CONTROLLER TO SHUT OFF ALL LIGHTING 20 MINUTES AFTER SPACE BECOMES UNOCCUPIED UNLESS OTHERWISE NOTED.
D. UPON OCCUPANCY, LIGHTING CONTROLLER TO DEFAULT TO SCENE 1.
E. OWNER HAS THE RIGHT TO MAKE MINOR ADJUSTMENTS TO SCENE SETTINGS WITHOUT ADDITIONAL COST.
F. EMERGENCY ZONE IN SPACES INDICATED BELOW,SHALL DIMMED WITH GENERAL ZONE [g] UNLESS OTHERWISE NOTED ON LIGHTING PLANS.

TYPICAL CLASSROOM

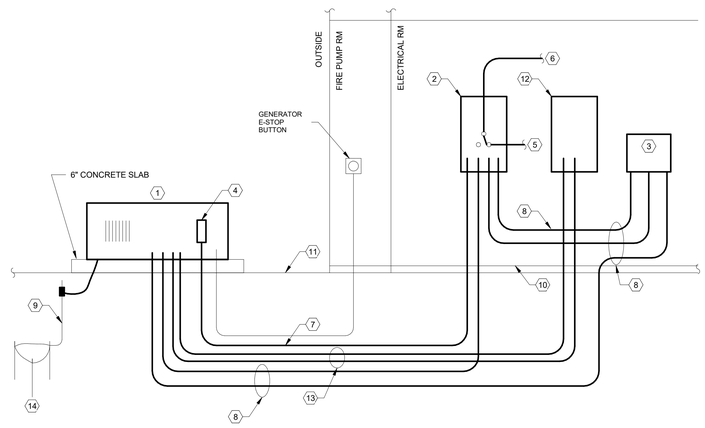
LIGHTING SCENES		LIGHTING CONTROL ZONE SETTINGS (% OF FULL BRIGHTNESS)	
SCENE #	SCENE NAME	TEACHING	GENERAL
1	GENERAL USE	75%	75%
2	TEACHING	100%	100%
3	PRESENTATION 1	10%	10%
4	PRESENTATION 2	0%	30%
5	GENERAL DIMMING	50%	50%

MULTI PURPOSE RM 253

LIGHTING SCENES		LIGHTING CONTROL ZONE SETTINGS (% OF FULL BRIGHTNESS)			
SCENE #	SCENE NAME	GENERAL	TEACHING		
		[g1]	[g2]	[g3]	[g4]
1	GENERAL USE	100%	100%	100%	100%
2	PRESENTATION 1	80%	0%	0%	0%
3	PRESENTATION 2	20%	0%	0%	0%
4	DIMMING 1	60%	60%	60%	60%
5	DIMMING 2	40%	40%	40%	40%
6	TEACHING 1	0%	0%	100%	30%
7	TEACHING 2	30%	0%	100%	0%
8	TEACHING 3	30%	0%	0%	100%

LOBBY

LIGHTING SCENES		LIGHTING CONTROL ZONE SETTINGS (% OF FULL BRIGHTNESS)			
SCENE #	SCENE NAME	GENERAL			
		[g1]	[g2]	[g3]	
1	GENERAL USE	100%	100%	100%	
2	PRESENTATION 1	30%	30%	60%	
3	PRESENTATION 2	0%	0%	30%	
4	DIMMING 1	60%	60%	60%	
5	DIMMING 2	30%	30%	30%	



8 E0.3 — GENERATOR DTL

NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES
1 GENERATOR.
2 AUTOMATIC TRANSFER SWITCH (ATS).
3 GENERATOR ANNUNCIATOR PANEL.
4 BREAKER FOR OVERCURRENT PROTECTION.
5 FEEDER FROM MAIN DISTRIBUTION PANEL.
6 FEEDER TO GENERATOR PANEL.
7 FEEDER FROM GENERATOR TO ATS. SEE REFERENCED DETAIL.
8 COMMUNICATION CONDUIT AND CABLING AS REQUIRED, COORDINATE WITH GENERATOR MANUFACTURER. SEE REFERENCED DETAIL.
9 5/8" x 10' GROUND ROD WITH #4 GREEN THWN GROUNDING CONDUCTOR BONDED TO GENERATOR.
10 FINISHED FLOOR.
11 FINISH GRADE.
12 PANEL POWERING BLOCK HEATER AND BATTERY CHARGER.
13 RUN A30 WIRE TO POWER BLOCK HEATER AND BATTERY CHARGER.
14 3 GROUNDING RODS 6' APART

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
CARY DALE LOFTIS
REGISTERED ENGINEER
AGRICULTURE
03/28/2025
STATE OF TENNESSEE

05/16/2025

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE
ELECTRICAL DETAILS & SCHEDULES

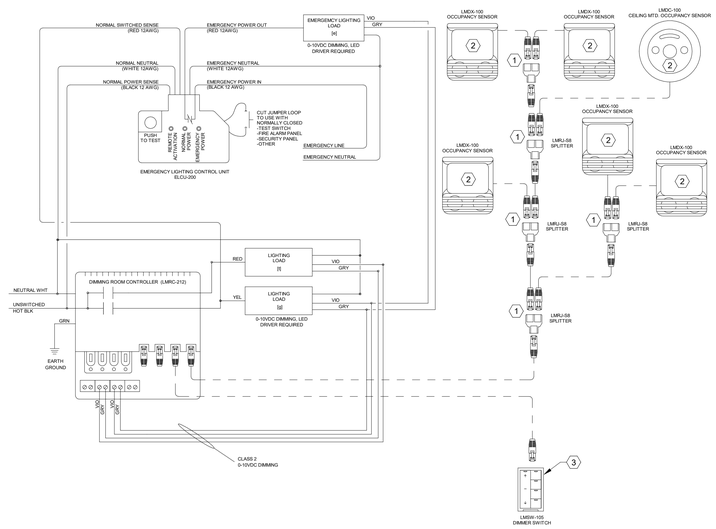
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E0.3

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ELECTRICAL NOTES

NUMBERED NOTES

1 PROVIDE ADDITIONAL SPLITTERS AS REQUIRED FOR QUANTITY OF OCCUPANCY SENSORS LOCATED IN SPACE.

2 SEE LIGHTING PLANS FOR MOUNTING OF OCCUPANCY SENSORS IN EACH SPACE.

3 PROVIDE (1) 5-BUTTON SCENE SWITCH. SWITCH TO BE FIELD-ADJUSTED TO PROVIDE DIMMING IN ACCORDNACE WITH LIGHTING COMMISSIONING SCHEDULE ON SHEET E0.04..

GENERAL NOTES

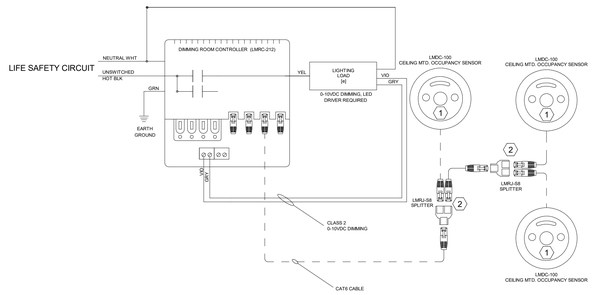
A NOT ALL LIGHTING CONTROL ZONES (g, t, d1, ETC.) SHOWN IN DETAIL WILL BE REQUIRED IN EACH CLASSROOM/LAB. REFER TO LIGHTING PLANS FOR ALL LIGHTING CONTROL ZONES WITHIN EACH SPACE.

B BASIS OF DESIGN IS WATTSTOPPER DIGITAL LIGHTING MANAGEMENT SYSTEM. REFER TO DIVISION 26 SPECIFICATIONS FOR ACCEPTABLE ALTERNATES.

C ALL DATA CABLING FROM ROOM CONTROLLER AND OTHER DIGITAL LIGHTING MANAGEMENT DEVICES TO BE CAT6 CABLES UNLESS OTHERWISE NOTED.

D REFER TO LIGHTING COMMISIONING SCHEDULE ON SHEET E0.04 FOR SCENE SETTINGS.

1 TYPICAL CLASSROOM LIGHTING CNTRL DTL
E0.4 NOT TO SCALE



ELECTRICAL NOTES

NUMBERED NOTES

1 SEE LIGHTING PLANS FOR MOUNTING OF OCCUPANCY SENSORS IN EACH SPACE.

2 PROVIDE ADDITIONAL SPLITTERS AS REQUIRED FOR QUANTITY OF OCCUPANCY SENSORS LOCATED IN SPACE.

GENERAL NOTES

A ALL DATA CABLING FROM ROOM CONTROLLER AND OTHER DIGITAL LIGHTING MANAGEMENT DEVICES TO BE CAT6 CABLES UNLESS OTHERWISE NOTED.

B BASIS OF DESIGN IS WATTSTOPPER DIGITAL LIGHTING MANAGEMENT SYSTEM. REFER TO DIVISION 26 SPECIFICATIONS FOR ACCEPTABLE ALTERNATES.

C LIGHTING WITHIN STAIRWELL TO BE DIMMED TO 50% FROM MIDNIGHT TO 6 AM. UPON OCCUPANCY DURING THIS PERIOD, THE LIGHTS WILL BRIGHTEN TO 100% UNTIL MIDNIGHT THE FOLLOWING DAY.

3 TYPICAL STAIR LIGHTING CNTRL DTL
E0.4 NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

1 PROVIDE ADDITIONAL SPLITTERS AS REQUIRED FOR QUANTITY OF OCCUPANCY SENSORS LOCATED IN SPACE.

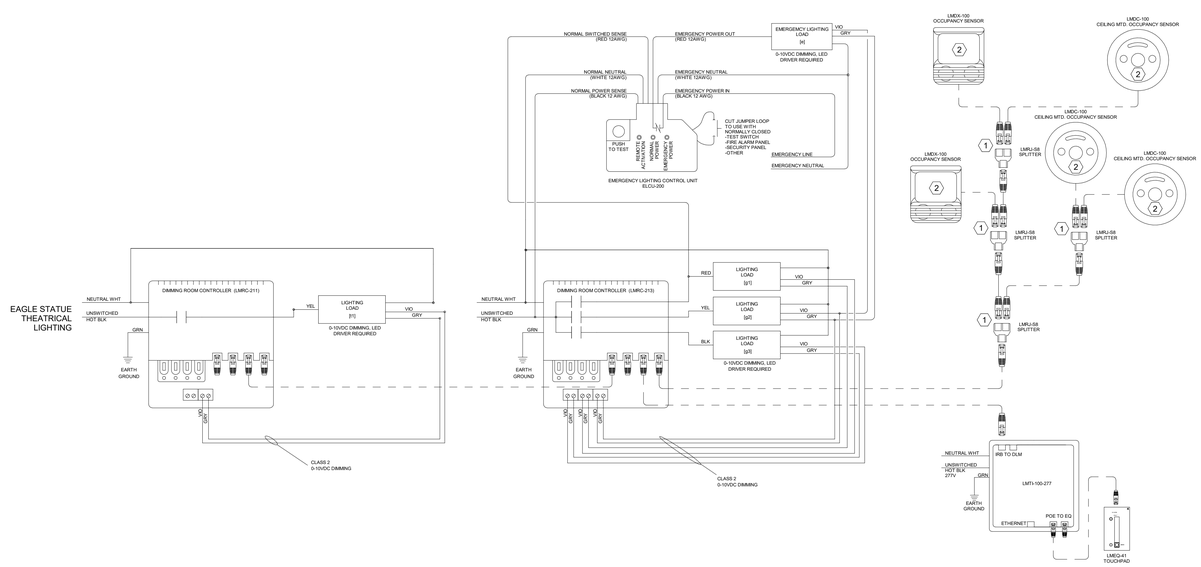
2 SEE LIGHTING PLANS FOR MOUNTING OF OCCUPANCY SENSORS IN EACH SPACE.

GENERAL NOTES

A ALL DATA CABLING FROM ROOM CONTROLLER AND OTHER DIGITAL LIGHTING MANAGEMENT DEVICES TO BE CAT6 CABLES UNLESS OTHERWISE NOTED.

B BASIS OF DESIGN IS WATTSTOPPER DIGITAL LIGHTING MANAGEMENT SYSTEM. REFER TO DIVISION 26 SPECIFICATIONS FOR ACCEPTABLE ALTERNATES.

C REFER TO LIGHTING COMMISIONING SCHEDULE ON SHEET E0.04 FOR SCENE SETTINGS.



4 LOBBY LIGHTING CNTRL DTL
E0.4 NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

1 PROVIDE (1) 24VDC MOMENTARY CONTACT PUSHBUTTON SWITCH FOR EACH NORMAL CORRIDOR LIGHTING CIRCUIT.

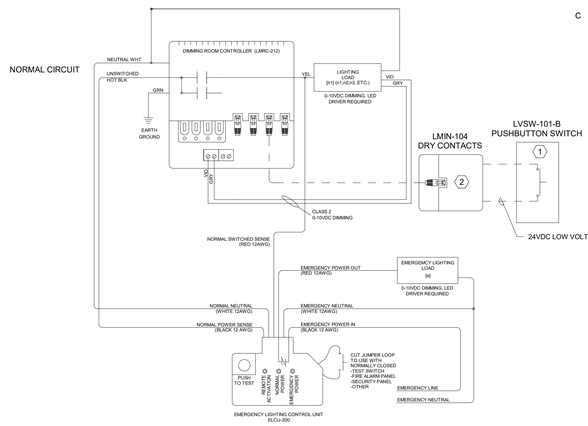
2 PROVIDE (1) 24VDC INPUT INTERFACE FOR EACH NORMAL CORRIDOR LIGHTING CIRCUIT.

GENERAL NOTES

A ALL DATA CABLING FROM ROOM CONTROLLER AND OTHER DIGITAL LIGHTING MANAGEMENT DEVICES TO BE CAT6 CABLES UNLESS OTHERWISE NOTED.

B BASIS OF DESIGN IS WATTSTOPPER DIGITAL LIGHTING MANAGEMENT SYSTEM. REFER TO DIVISION 26 SPECIFICATIONS FOR ACCEPTABLE ALTERNATES.

C NORMAL LIGHTING WITHIN CORRIDOR TO BE SHUTOFF FROM MIDNIGHT TO 6 AM. UPON ACTIVATION OF LOW VOLTAGE SWITCH WITHIN CORRIDOR. THE LIGHTS WILL BRIGHTEN TO 100% UNTIL MIDNIGHT THE FOLLOWING DAY.



5 TYPICAL CORRIDOR LIGHTING CNTRL DTL
E0.4 NOT TO SCALE

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS, REGISTERED ENGINEER, STATE OF TENNESSEE
05/16/2025
03/28/2025

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE
LIGHTING CONTROL DETAILS

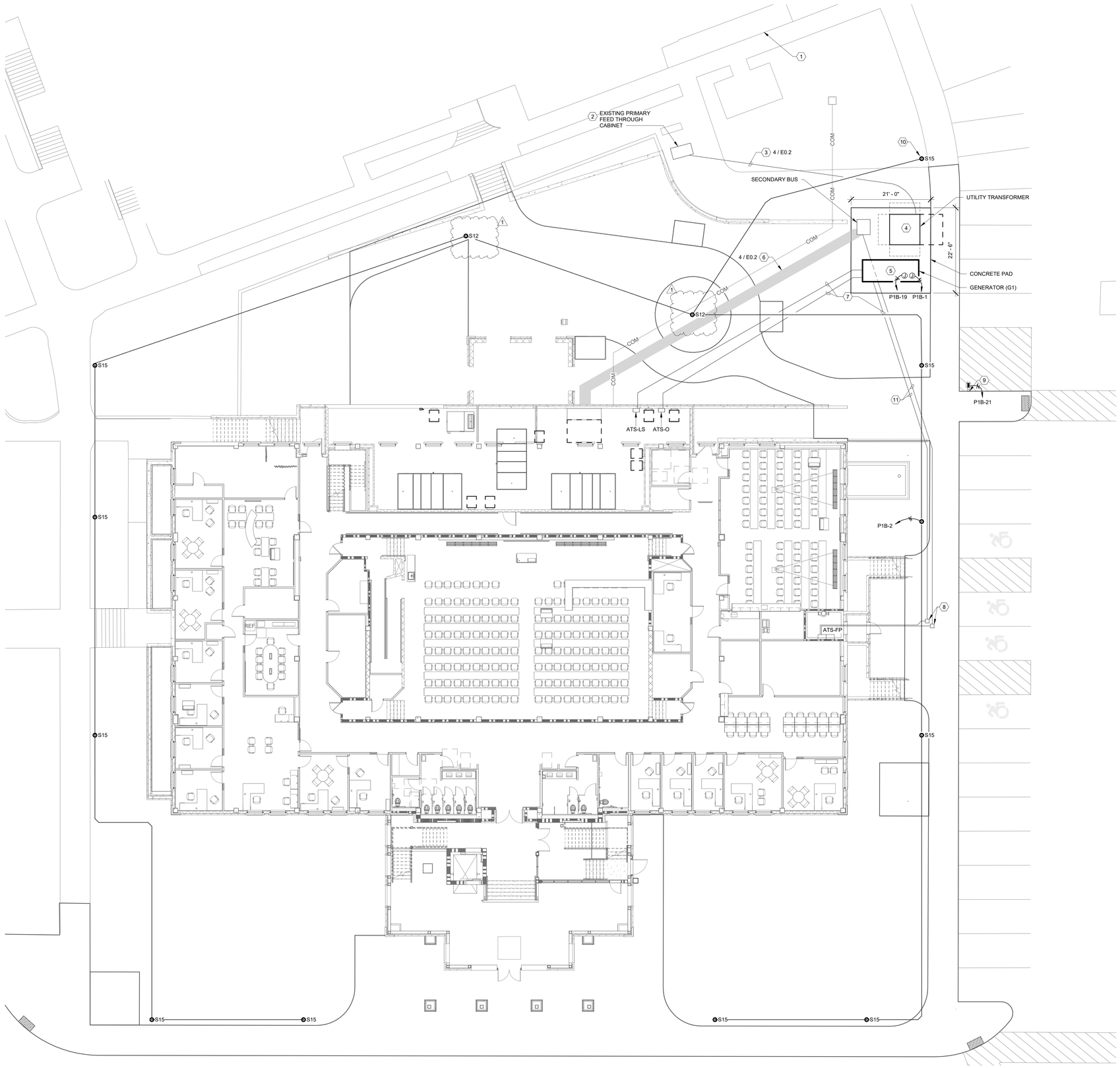
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E0.4

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ELECTRICAL NOTES

NUMBERED NOTES

1. EXISTING TRANSENCLOSURE LOCATION TO REMAIN.
2. EXISTING FEED THROUGH CABINET TO REMAIN.
3. INSTALL (3) 4" CONDUITS BELOW GRADE FROM FEED THROUGH CABINET. SEE REFERENCED DITCH DETAIL FOR ADDITIONAL INFORMATION. COORDINATE WITH EXISTING CONDITIONS AND SITE.
4. NEW UTILITY TRANSFORMER. COORDINATE WITH COOKEVILLE ELECTRIC.
5. SEE GENERATOR SCHEDULE FOR ADDITIONAL INFORMATION.
6. UNDERGROUND SERVICE CONDUCTORS ROUTED TO MAIN SWITCHBOARD 'MSB'. SEE REFERENCED DITCH DETAIL FOR ADDITIONAL INFORMATION.
7. UNDERGROUND FEEDERS ROUTED FROM GENERATOR TO TRANSFER SWITCHES AS NOTED. SEE REFERENCED DITCH DETAIL. COORDINATE WITH EXISTING CONDITIONS AND SITE.
8. IN-GRADE QUAZITE PULL BOXES. CONTRACTOR SHALL SIZE BOXES PER NEC. COORDINATE WITH SITE AND DEPTH OF CONDUITS.
9. ELECTRIC GOLF CART CHARGING PEDESTAL. COORDINATE MOUNTING AND INSTALLATION REQUIREMENTS WITH MANUFACTURER AND OWNER.
10. CONTRACTOR TO INSTALL WIRELESS CONTROL MODULE IN ALL 'S' FIXTURES. MODULE SUPPLIED BY OWNER.
11. UN-FUSED CONDUCTORS FROM THE UTILITY TRANSFORMER AND GENERATOR TO THE FIRE PUMP CONTROLLER. ALSO, E-STOP CONTROL CIRCUIT.

1 E1.0 ELECTRICAL SITE PLAN

SCALE: 3/32" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 5' 10' 20' 40'

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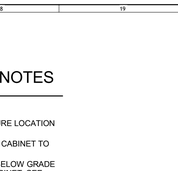
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TENNESSEE TECH. UNIVERSITY

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SHEET TITLE
ELECTRICAL SITE PLAN

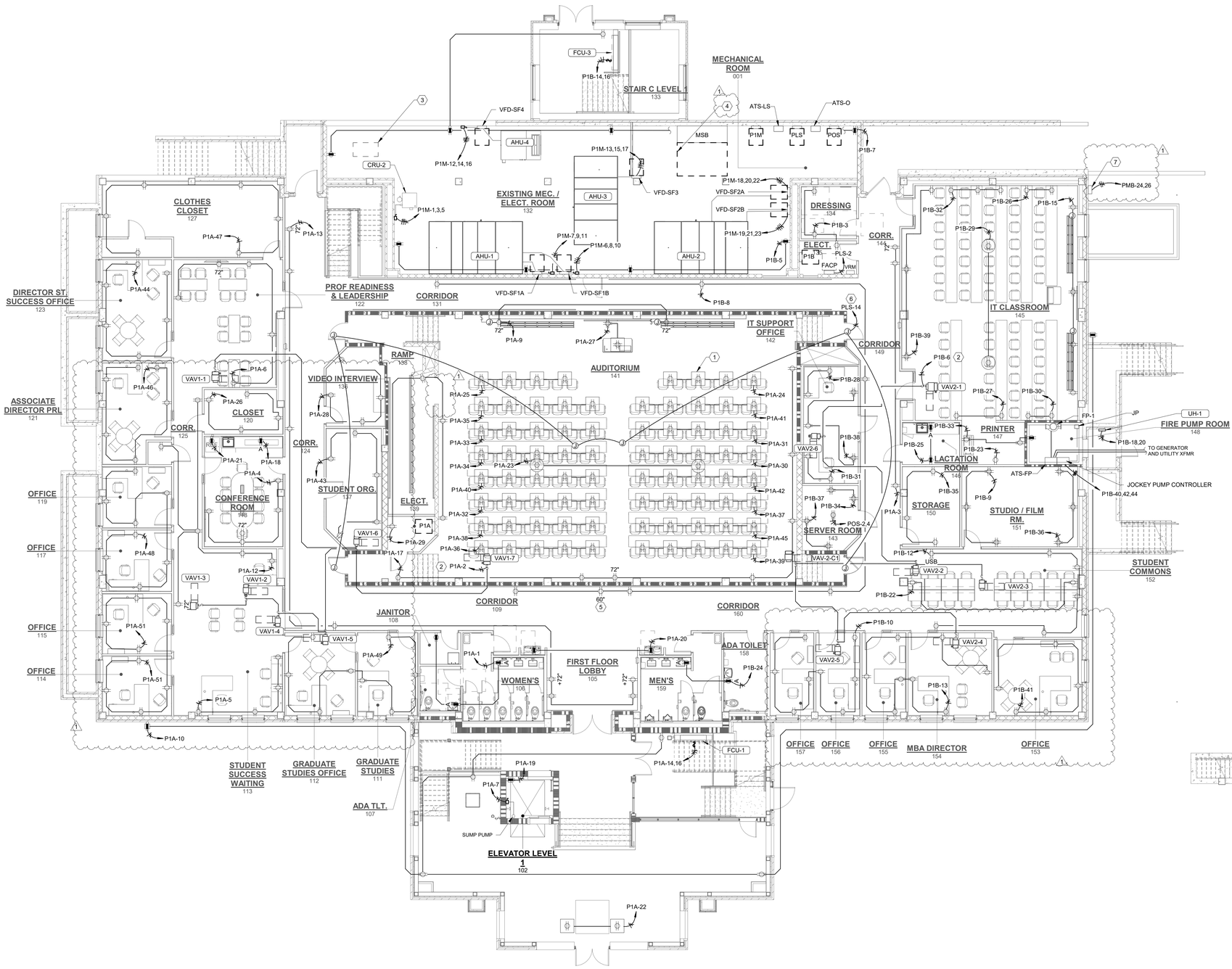
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E1.0

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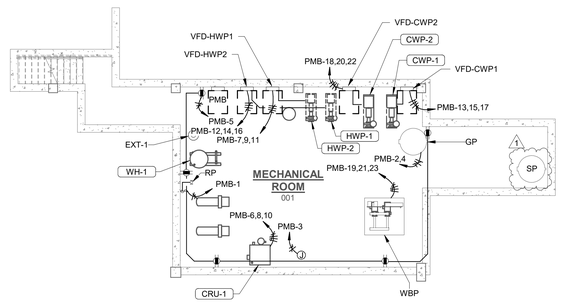


1 FIRST FLOOR POWER PLAN

E1.1

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'



2 BASEMENT POWER PLAN

E1.1

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 4' 8' 16' 32'

ELECTRICAL NOTES

NUMBERED NOTES

1. TYPICAL. REPLACE ALL FLOOR MOUNTED RECEPTACLES WITHIN AUDITORIUM. INSTALL NEW CIRCUITRY TO RECEPTACLES. REUSE EXISTING CONDUITS AS PRACTICAL. COORDINATE WITH EXISTING CONDITIONS. COORDINATE EXACT LOCATIONS OF RECEPTACLES WITH OWNER AND FURNITURE LAYOUT.
2. TYPICAL. 120V SNAP SWITCH FOR MECHANICAL UNIT. CONTRACTOR SHALL CONNECT 120V CIRCUIT TO CONTROL POWER TRANSFORMER WITHIN MECHANICAL UNIT. COORDINATE WITH MECHANICAL.
3. EXISTING GENERATOR TO BE REMOVED.
4. EXTRA WORKSPACE FOR LARGE EQUIPMENT PER NEC 110.26 (C)(2)(b).
5. MOUNT RECESSED FOR SEAL.
6. TYPICAL. 120V CIRCUIT FOR HVAC SMOKE DAMPER CONTROL MODULE. COORDINATE EXACT LOCATION WITH MECHANICAL AND FIRE ALARM.
7. SUMP PUMP CONTROL PANEL AND ALARM MOUNTED ON EXTERIOR OF BUILDING.

GENERAL NOTES

- A. COORDINATE LOCATIONS OF RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.
- B. COORDINATE EXACT FLOOR BOX LOCATIONS WITH OWNER AND FURNITURE.
- C. CONTACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP EQUIPMENT AND WORK SPACE CLEAR.

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1	ADDENDUM #1	2025/03/05

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ISSUE DATE 03/28/2025

SHEET TITLE FIRST FLOOR POWER PLAN

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E1.1

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ELECTRICAL NOTES

NUMBERED NOTES

1 TYPICAL, 120V SNAP SWITCH FOR MECHANICAL UNIT. CONTRACTOR SHALL CONNECT 120V CIRCUIT TO CONTROL POWER TRANSFORMER WITHIN MEACHANICAL UNIT. COORDINATE WITH MECHANICAL.

2 TYPICAL, 120V CIRCUIT FOR HVAC SMOKE DAMPER CONTROL MODULE. COORDINATE EXACT LOCATION WITH MECHANICAL AND FIRE ALARM.

GENERAL NOTES

A COORDINATE LOCATIONS OF RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.

B COORDINATE EXACT FLOOR BOX LOCATIONS WITH OWNER AND FURNITURE.

STAIR C LEVEL 1
133
STUDENT COMMONS
225
STAIR B
226
OFFICE
227
OFFICE
228
OFFICE
229
STUDENT COMMONS
231
OFFICE
248
OFFICE
249
OFFICE
251
OFFICE
252
TIERED CLASSROOM
223
VENDING
239
CORRIDOR
234
CORRIDOR
247
ELECT.
246
STOR.
235
CORRIDOR
224
BREAKOUT ROOM
236
MULTI PURPOSE
253
FOYER
219
CORRIDOR
221
TVA TRADING CLASSROOM
243
CORRIDOR
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CORRIDOR
255
FOYER
256
OFFICE
217
OFFICE
216
OFFICE
215
CLASSROOM
214
CORRIDOR
222
STUDENT LOUNGE
241
CORRIDOR
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BLOOMBERG LAB
245
I.T.
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STOR.
250
COPY / STORAGE
260
ADMIN.
261
CHAIR
262
ELECT.
238
JANITOR
208
CORRIDOR
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CORRIDOR
268
SECOND FLOOR LOBBY
205
MEN'S
269
WOMEN'S
206
ACCOUNTING ADMIN.
263
ACCOUNTING CHAIR
264
OFFICE
213
OFFICE
212
OFFICE
211
ADA TLT
207
EF&M & ADMIN
266
EF&M & ACCOUNTING CONF. RM.
265
EF&M DPT. CHAIR
267

1 SECOND FLOOR POWER PLAN
E1.2
SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")
0' 4' 8' 16' 32'

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS
REGISTERED ENGINEER
05/16/2025
03/28/2025
STATE OF TENNESSEE

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO.
22089

ISSUE DATE
03/28/2025

SHEET TITLE
SECOND FLOOR POWER PLAN

DRAWN JLC
REVIEW DIB
E1.2

MAFFETT LOFTIS ENGINEERING, LLC
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TEL: (931) 526-5143
www.maffett-loftis.com

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ELECTRICAL NOTES

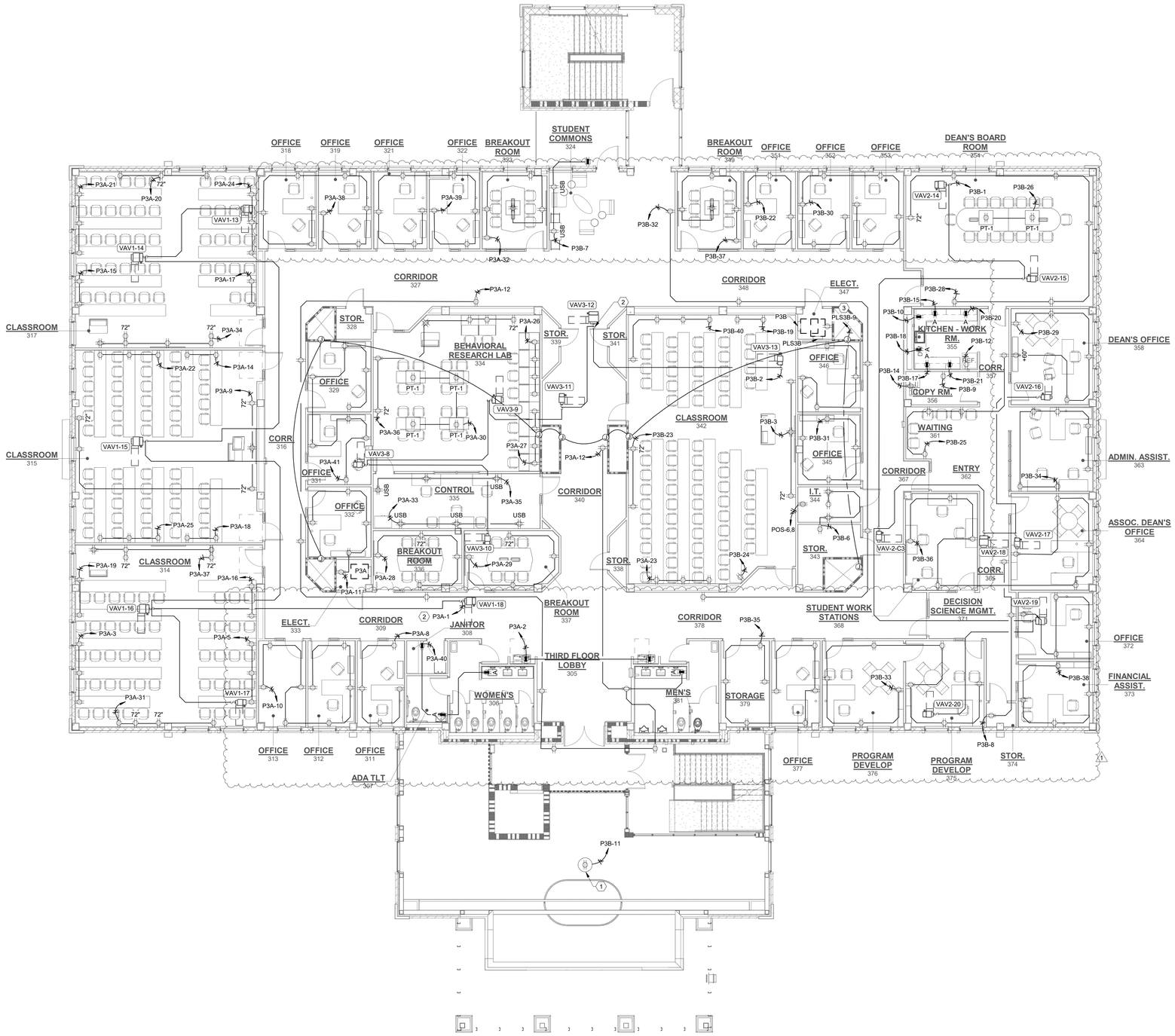
NUMBERED NOTES

1. CEILING RECEPTACLE FOR SUSPENDED STOCK TICKER SIGNAGE. COORDINATE EXACT LOCATION WITH SIGNAGE.
2. TYPICAL, 120V SNAP SWITCH FOR MECHANICAL UNIT. CONTRACTOR SHALL CONNECT 120V CIRCUIT TO CONTROL POWER TRANSFORMER WITHIN MEACHANICAL UNIT. COORDINATE WITH MECHANICAL.
3. 120V CIRCUIT FOR HVAC SMOKE DAMPER CONTROL MODULE. COORDINATE EXACT LOCATION WITH MECHANICAL AND FIRE ALARM.

GENERAL NOTES

A. COORDINATE LOCATIONS OF RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.

B. COORDINATE EXACT FLOOR BOX LOCATIONS WITH OWNER AND FURNITURE.



1 THIRD FLOOR POWER PLAN
E1.3 SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 4' 8' 16' 32'

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
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STATE OF TENNESSEE 03/28/2025

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SHEET TITLE THIRD FLOOR POWER PLAN

DRAWN JLC

REVIEW DIB

E1.3

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ELECTRICAL NOTES

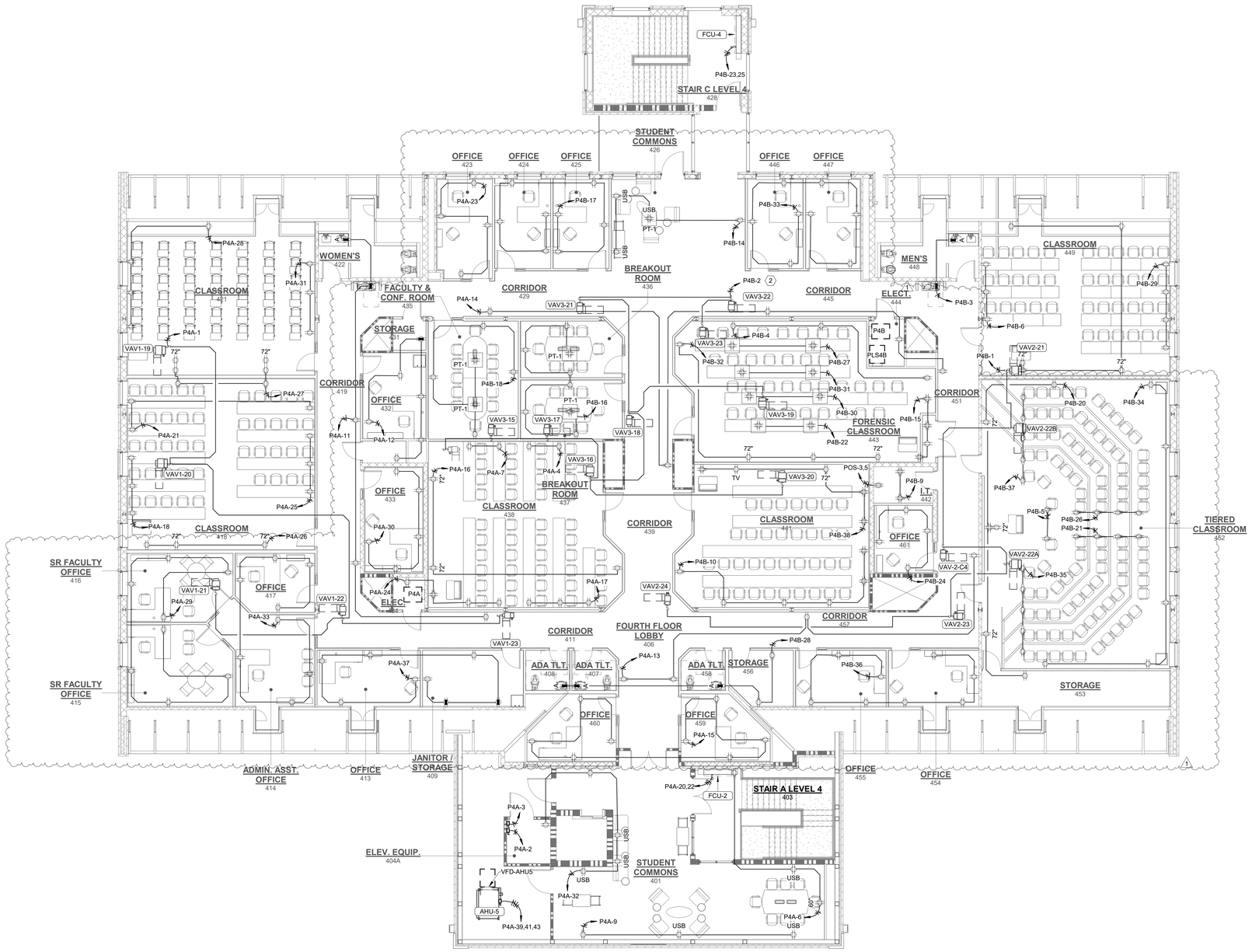
NUMBERED NOTES

2 TYPICAL, 120V SNAP SWITCH FOR MECHANICAL UNIT. CONTRACTOR SHALL CONNECT 120V CIRCUIT TO CONTROL POWER TRANSFORMER WITHIN MEACHANICAL UNIT. COORDINATE WITH MECHANICAL.

GENERAL NOTES

A COORDINATE LOCATIONS OF RECEPTACLES AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.

B COORDINATE EXACT FLOOR BOX LOCATIONS WITH OWNER AND FURNITURE.



1 E1.4 FOURTH FLOOR POWER PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 24"X36")

0' 4' 8' 16' 32'

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PROJECT
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SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL

GARY DALE LOFTIS REGISTERED ENGINEER AGRICULTURAL 111139 STATE OF TENNESSEE
05/16/2025

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SHEET TITLE FOURTH FLOOR POWER PLAN

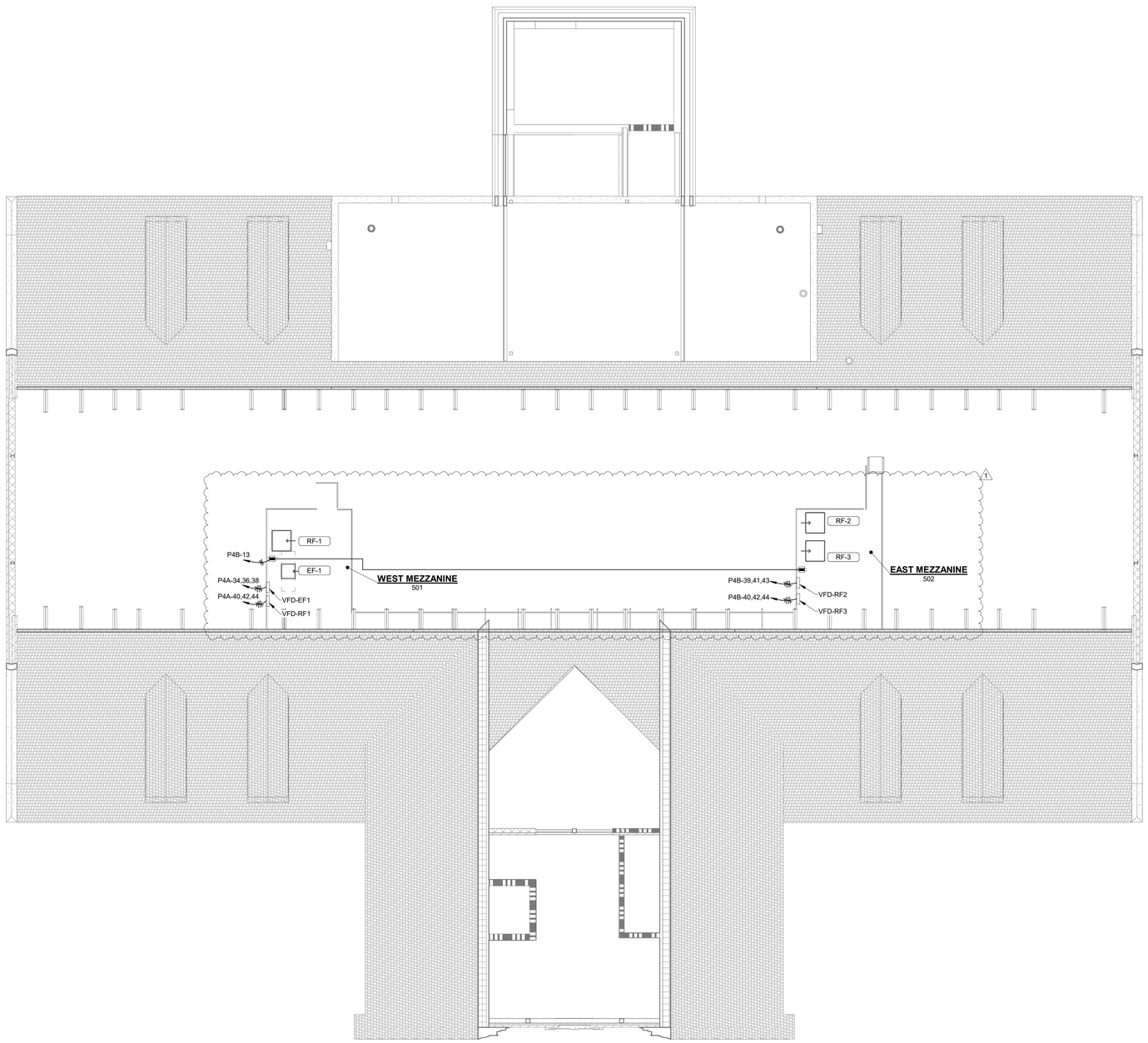
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REVIEW DIB

E1.4

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1 E1.5 MEZZANINE POWER PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
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GARY DALE LOFTIS — REGISTERED FARMER — 03/28/2025 — STATE OF TENNESSEE

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JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE MEZZANINE POWER PLAN

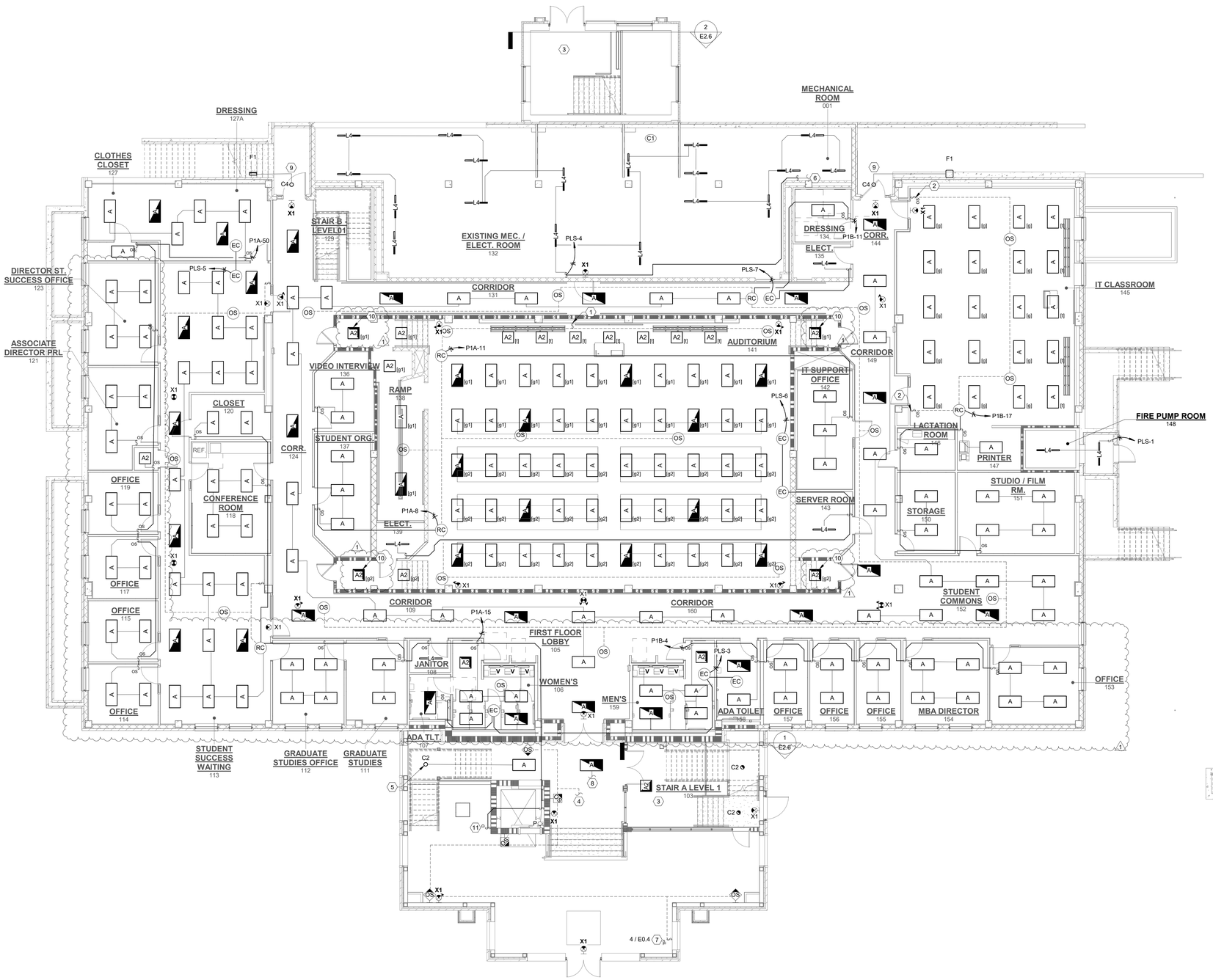
DRAWN CWA

REVIEW AJG

E1.5

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1 FIRST FLOOR ELECTRICAL LIGHTING PLAN

E2.1

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

2 BASEMENT LIGHTING PLAN

E2.1

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

ELECTRICAL NOTES

NUMBERED NOTES

1. 8 - BUTTON SWITCH. BASIS OF DESIGN IS LEGRAND LMSW-108-W.
2. 4 - BUTTON SWITCH. BASIS OF DESIGN IS LEGRAND LMSW-104-W.
3. REFER TO SHEET E2.6 FOR STAIRWAY LIGHTING.
4. CONTINUE CAT6 CABLE TO LOBBY ROOM CONTROLLERS ON THIRD FLOOR.
5. CIRCUIT TO NORMAL POWERED LOBBY PENDANT LIGHTS.
6. CONTINUE SWITCH LEG TO LIGHTING CIRCUIT DOWNSTAIRS.
7. TOUCHPAD FOR LOBBY LIGHTING CONTROLS. SEE REFERENCED DETAIL FOR ADDITIONAL INFORMATION.
8. CONTINUE CAT6 CABLE TO LOBBY ROOM CONTROLLERS ON THIRD FLOOR.
9. LIGHTS TO BE PART OF SOUTH EXTERIOR LIGHTING CIRCUIT. ROUTE TO CONTACTOR AND SWITCH VIA PHOTOCELL.
10. LIGHT FIXTURES IN THE FIRE-RATED CEILING SHALL HAVE A FIRE-RATED ENCLOSURE.
11. DIMMER SWITCH FOR SPOTLIGHT ON EAGLE DISPLAY CASE.

GENERAL NOTES

- A ROUTE UNSWITCHED HOT CONDUCTOR TO EXIT/EMERGENCY FIXTURES FROM LIGHTING CIRCUIT SERVING THE SAME SPACE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- B COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS
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STATE OF TENNESSEE

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JOB NO.
22089

ISSUE DATE
03/28/2025

SHEET TITLE
FIRST FLOOR LIGHTING PLAN

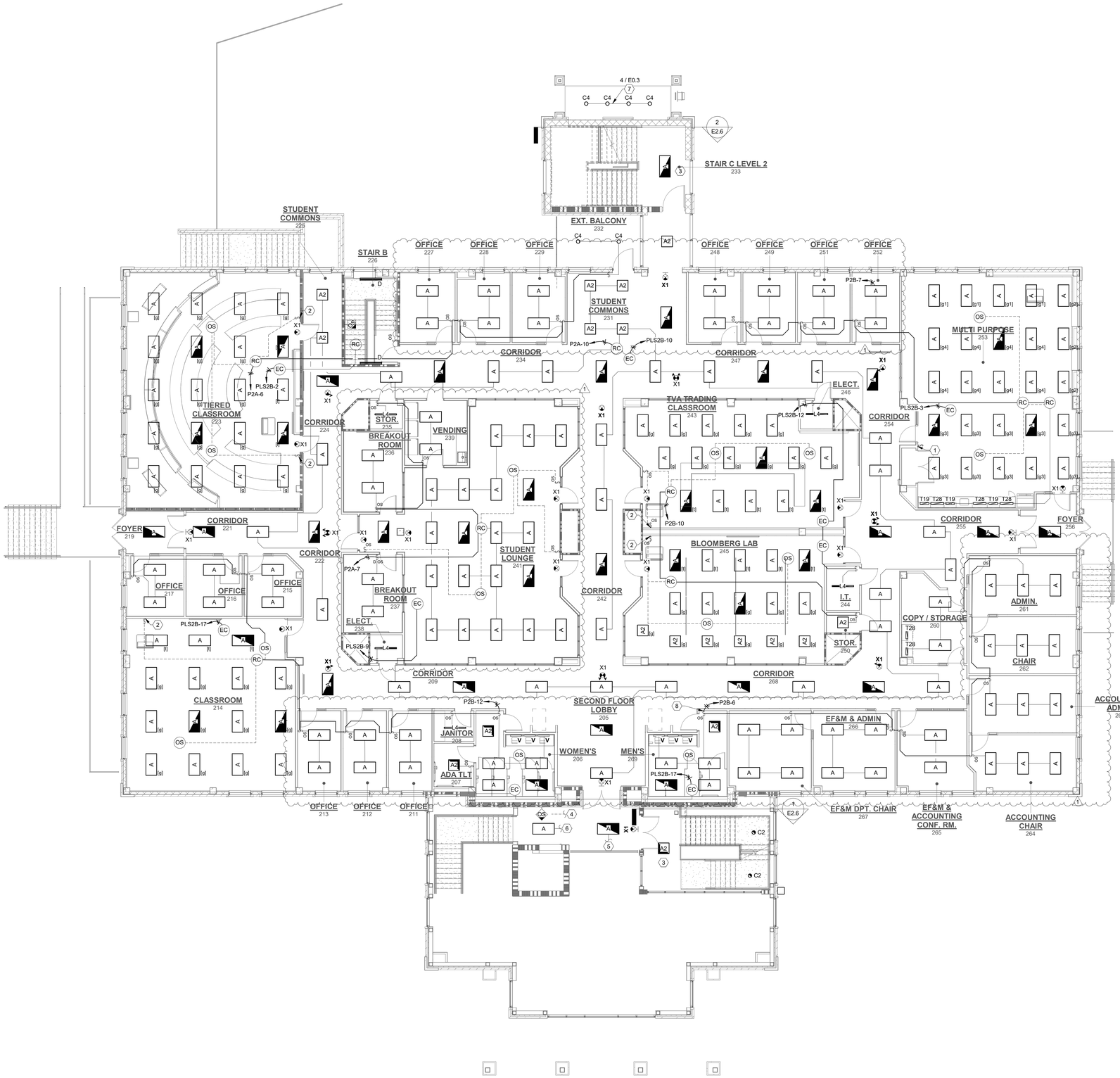
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JLC

REVIEW
GDL

E2.1

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ELECTRICAL NOTES

NUMBERED NOTES

1. 8 - BUTTON SWITCH. BASIS OF DESIGN IS LEGRAND LMSW-108-W.
2. 4 - BUTTON SWITCH. BASIS OF DESIGN IS LEGRAND LMSW-104-W.
3. REFER TO SHEET E2.6 FOR STAIRWAY LIGHTING.
4. CONTINUE CAT6 CABLE TO LOBBY ROOM CONTROLLERS ON THIRD FLOOR.
5. CIRCUIT TO EMERGENCY POWERED LOBBY PENDANT LIGHTS.
6. CIRCUIT TO NORMAL POWERED LOBBY PENDANT LIGHTS.
7. UNDER CANOPY LIGHTS CIRCUITED TO WEST EXTERIOR LIGHTING.
8. OCCUPANCY SENSORS IN BATHROOM SHALL BE WIRED IN A MASTER/SLAVE CONFIGURATION.

GENERAL NOTES

A. ROUTE UNSWITCHED HOT CONDUCTOR TO EXIT/EMERGENCY FIXTURES FROM LIGHTING CIRCUIT SERVING THE SAME SPACE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

B. COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

1 / E2.2 SECOND FLOOR ELECTRICAL LIGHTING PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

NORTH

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Ph.: (931) 403-1000
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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS
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05/16/2025
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JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE
SECOND FLOOR LIGHTING PLAN

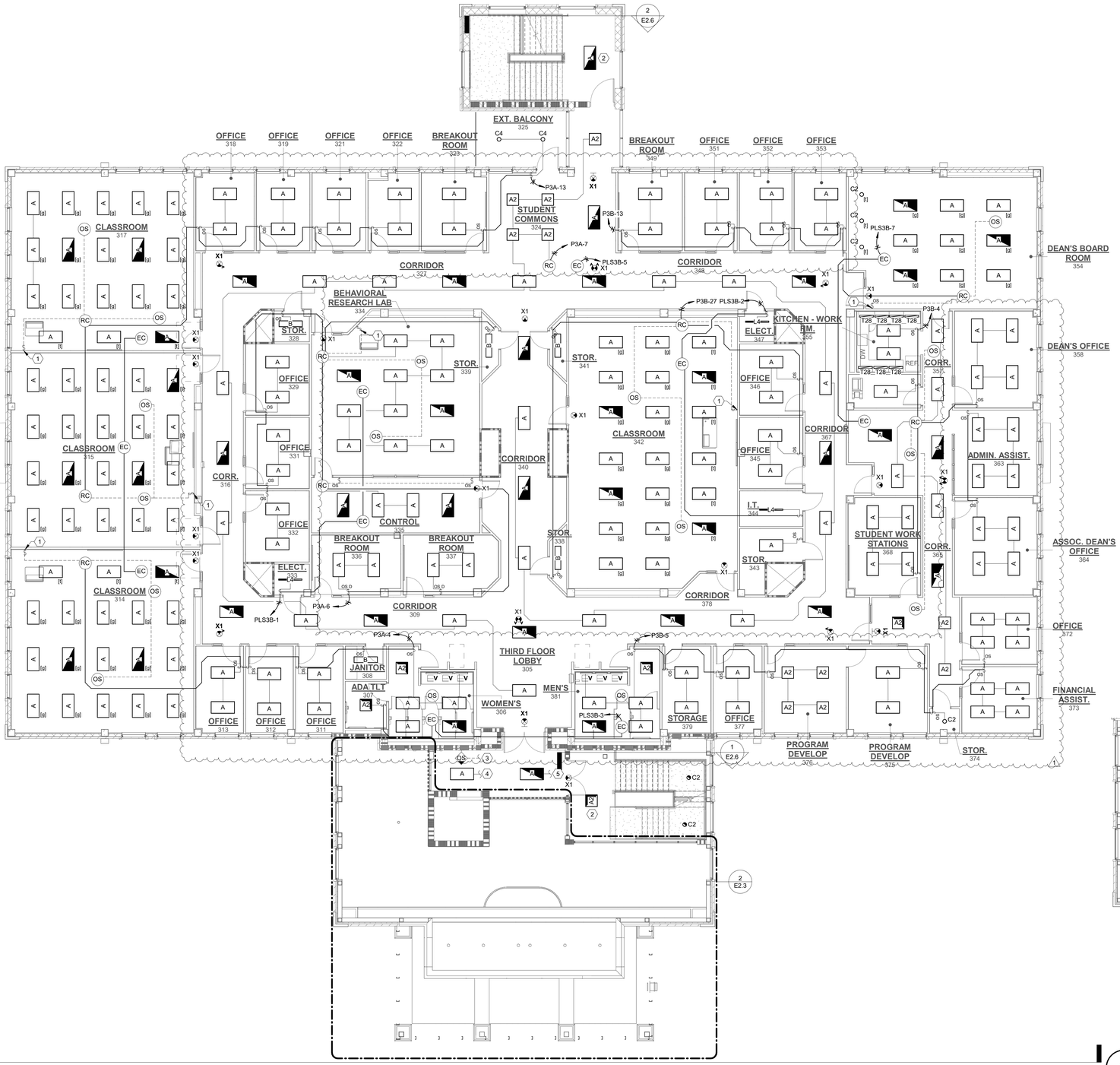
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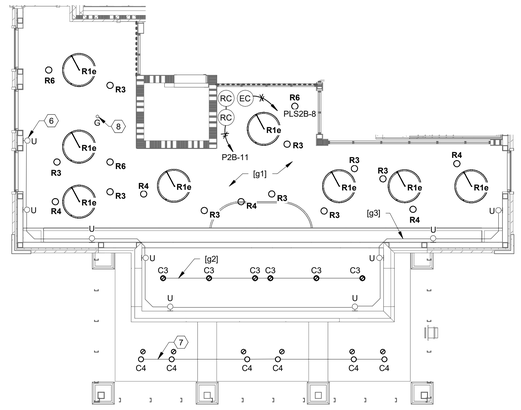
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E2.2

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ELECTRICAL NOTES

NUMBERED NOTES

1. 4 - BUTTON SWITCH. BASIS OF DESIGN IS LEGRAND LMSW-104-W.
2. REFER TO SHEET E2.6 FOR STAIRWAY LIGHTING.
3. CONTINUE CAT6 CABLE TO LOBBY ROOM CONTROLLERS ON THIRD FLOOR.
4. CIRCUIT TO NORMAL POWERED LOBBY PENDANT LIGHTS.
5. CIRCUIT TO EMERGENCY POWERED LOBBY PENDANT LIGHTS.
6. 'U' FIXTURES TO BE MOUNTED 18' AFF.
7. UNDER CANOPY LIGHTS CIRCUITED TO WEST EXTERIOR LIGHTING.
8. 'G' FIXTURE TILT TO BE ADJUSTED TO SERVE AS A SPOTLIGHT FOR THE EAGLE DISPLAY CASE. COORDINATE MOUNTING IN BETWEEN CEILINGS WITH MANUFACTURER AND ARCHITECT.

GENERAL NOTES

- A. ROUTE UNSWITCHED HOT CONDUCTOR TO EXIT/EMERGENCY FIXTURES FROM LIGHTING CIRCUIT SERVING THE SAME SPACE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- B. COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

1 E2.3 THIRD FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")
0' 4' 8' 16' 32'

NORTH

2 E2.3 LOBBY PENDANT LIGHTING PLAN
SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")
0' 4' 8' 16' 32'

3 E2.6

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
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AGRICULTURE
STATE OF TENNESSEE
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SHEET TITLE
THIRD FLOOR LIGHTING PLAN

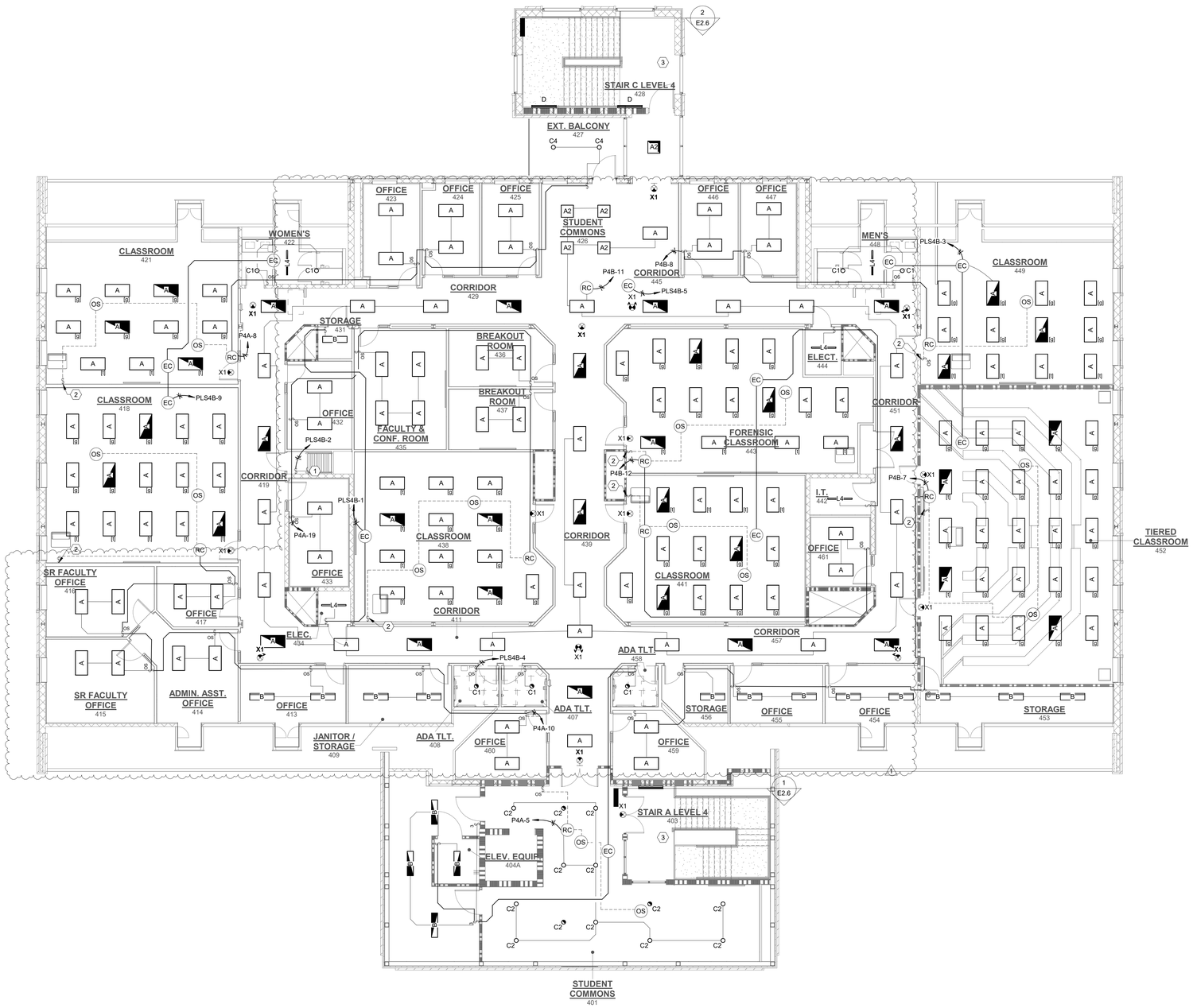
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E2.3

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1 E2.4 FOURTH FLOOR ELECTRICAL LIGHTING PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

NORTH

ELECTRICAL NOTES

NUMBERED NOTES

1 SWITCH SERVES THE MEZZANINE FIXTURES ON THE NEXT LEVEL. SEE E2.5 FOR MORE INFORMATION.

2 4 - BUTTON SWITCH. BASIS OF DESIGN IS LEGRAND LMSW-104-W.

3 REFER TO SHEET E2.6 FOR STAIRWAY LIGHTING.

GENERAL NOTES

A ROUTE UNSWITCHED HOT CONDUCTOR TO EXIT/EMERGENCY FIXTURES FROM LIGHTING CIRCUIT SERVING THE SAME SPACE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

B COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL CEILING PLANS.

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JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
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OWNER
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SEAL
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SHEET TITLE FOURTH FLOOR LIGHTING PLAN

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ELECTRICAL NOTES

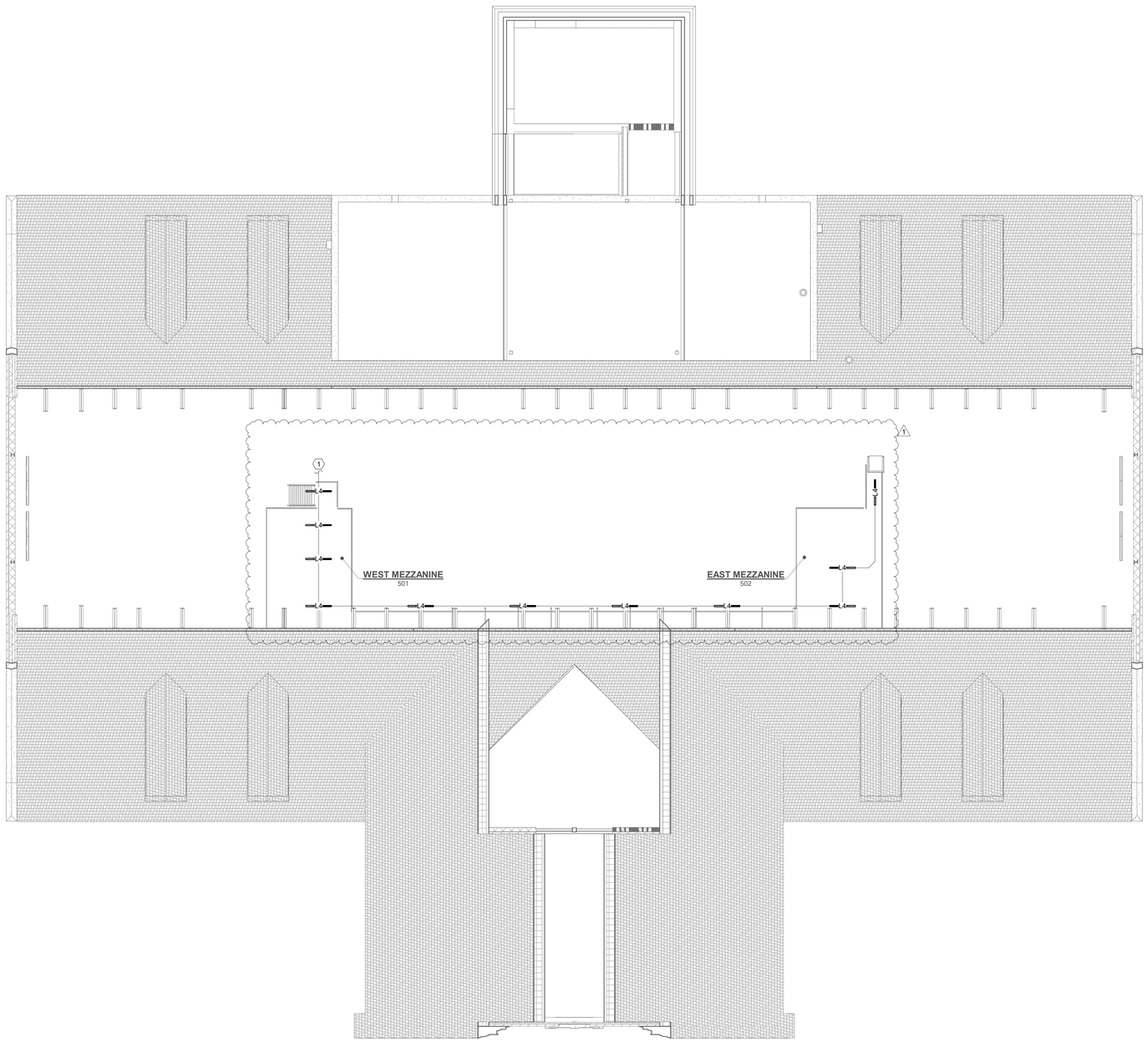
NUMBERED NOTES

1 LIGHTING CONTROLS FOR LIGHT FIXTURES ON MEZZANINE LEVEL ARE SWITCHED AT THE BASE OF THE STAIRS.

GENERAL NOTES

A ROUTE UNSWITCHED HOT CONDUCTOR TO EXIT/EMERGENCY FIXTURES FROM LIGHTING CIRCUIT SERVING THE SAME SPACE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

B COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL CEILING PLANS.



1 / E2.5 MEZZANINE LIGHTING PLAN

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
CARY DALE LOFTIS REGISTERED ENGINEER AGRICULTURAL STATE OF TENNESSEE
05/16/2025
CARY DALE LOFTIS REGISTERED ENGINEER AGRICULTURAL STATE OF TENNESSEE
03/28/2025

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE MEZZANINE LIGHTING PLAN

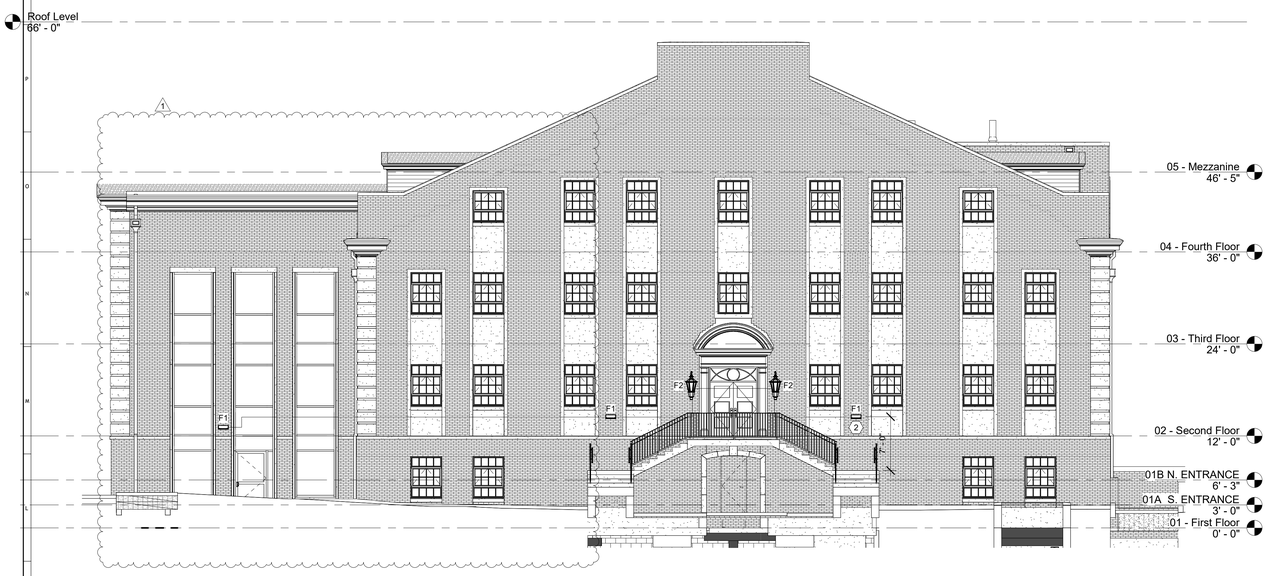
DRAWN CWA

REVIEW AJG

E2.5

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1 E2.7 SOUTH ELECTRICAL ELEVATION

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'



2 E2.7 NORTH ELECTRICAL ELEVATION

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'



3 E2.7 EAST ELECTRICAL ELEVATION

SCALE: 1/8" = 1'-0" (WHEN PRINTED FULL SCALE ON 30"x42")

0' 4' 8' 16' 32'

ELECTRICAL NOTES

NUMBERED NOTES

1 PHOTOCELL FOR EXTERIOR LIGHTING CIRCUITS. ROUTE TO CONTACTOR C1.

2 LIGHTS TO BE PART OF SOUTH EXTERIOR LIGHTING CIRCUIT. ROUTE TO CONTACTOR AND SWITCH VIA PHOTOCELL.

3 LIGHTS TO BE PART OF NORTH EXTERIOR LIGHTING CIRCUIT. ROUTE TO CONTACTOR AND SWITCH VIA PHOTOCELL.

4 LIGHTS TO BE PART OF EAST EXTERIOR LIGHTING CIRCUIT. ROUTE TO CONTACTOR AND SWITCH VIA PHOTOCELL.

GARY DALE LOFTIS REGISTERED ENGINEER 05/16/2025 STATE OF TENNESSEE

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS REGISTERED ENGINEER 03/28/2025 STATE OF TENNESSEE

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO. 22089

ISSUE DATE 03/28/2025

SHEET TITLE EXTERIOR LIGHTING PLANS

DRAWN JLC

REVIEW AJG

E2.7

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BRANCH PANEL: P1A

LOCATION: ELECT. 139 | **SUPPLY FROM:** MSB | **MOUNTING:** SURFACE | **ENCLOSURE:** TYPE 1
MANUFACTURER: SQUARE-D | **MODEL:** NQ | **PANEL NOTES:** | **VOLTS:** 120/208 Wye,4-WIRE
A.I.C. RATING: COORDINATE | **MAINS TYPE:** MCB | **MAINS RATING:** 200 A | **MCB RATING:** 200 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A20		RM 106-108 RECPTS.	1	0.5	0.0		2	VAV1'S		A20	1	20 A
20 A	1	A20		RM 149 RECPTS.	3		0.5	0.9	4	RM 118 RECPTS.		A20	1	20 A
20 A	1	A20		RM 113 & 125 RECPTS.	5			0.7	0.9	6	RM 126 RECPTS.		A20	1	20 A
25 A	1	A30		ELEVATOR SUMP PUMP (ESP)	7	1.0	1.2			8	LIGHTING		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	9			1.0	1.1	10	LOWER PLAZA & EXTERIOR RECPTS.		A20	1	20 A
20 A	1	A20		LIGHTING	11			1.1	1.1	12	RM 113 RECPTS.		A20	1	20 A
20 A	1	A20	1	RM 105. 109, & 121 RECPTS.	13	1.4	0.0			14	FCU-1		B20	2	15 A
20 A	1	A20		LIGHTING	15		1.5	0.0		16					
20 A	1	A20		RM 141 RECPTS.	17			1.3	0.2	18	RM 118 RECPTS.		A20	1	20 A
20 A	1	A20		RM 102 ELEVATOR RECPTS.	19	0.2	0.4			20	DRINKING FOUNTAINS	1	A20	1	20 A
20 A	1	A20		RM 118 & 116 RECPTS.	21		0.2	0.4		22	LOBBY FLOOR RECPTS		A20	1	20 A
20 A	1	A20		ROOM 141 PROJECTOR RECPTS.	23			0.4	0.7	24	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	25	0.7	0.7			26	RM 122 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	27		0.7	0.7		28	RM 136 RECPTS.		A20	1	20 A
20 A	1	A20		RM 138, 139, & 141 RECPTS.	29			0.7	0.9	30	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	31	0.9	0.9			32	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	33		0.9	0.9		34	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	35			0.9	0.9	36	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	37	0.9	0.9			38	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	39		0.9	0.9		40	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	41			0.9	0.9	42	RM 141 RECPTS.		A20	1	20 A
20 A	1	A20		RM 137 RECPTS.	43	0.9	1.1			44	RM 121 & 123 RECPTS.		A20	1	20 A
20 A	1	A20		RM 141 RECPTS.	45		0.9	1.1		46	RM 124 RECPTS.		A20	1	20 A
20 A	1	A20		RM 127 RECPTS.	47			1.1	1.4	48	RM 117 & 119 RECPTS.		A20	1	20 A
20 A	1	A20		RM 111 & 112 RECPTS.	49	1.4	0.8			50	LIGHTING		A20	1	20 A
20 A	1	A20		RM 114 & 115 RECPTS.	51		1.4	0.0		52	- SPARE -			1	20 A
20 A	1			- SPARE -	53			0.0	0.0	54	- SPARE -			1	20 A
					TOTAL LOAD:	14.0 kVA	14.0 kVA	14.0 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Motor	1.0 kVA	125.00%	1.2 kVA		
Receptacle	35.8 kVA	63.96%	22.9 kVA	**TOTAL CONN. LOAD (kVA):**	41.9 kVA
Lighting	0.2 kVA	100.00%	0.2 kVA	**TOTAL EST. DEMAND (kVA):**	30.4 kVA
Continuous	4.4 kVA	125.00%	5.5 kVA	**TOTAL CONN.:**	116 A
Non-Continuous	0.6 kVA	100.00%	0.6 kVA	**TOTAL EST. DEMAND:**	84 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

BRANCH PANEL: PMB

LOCATION: MECHANICAL ROOM 001 | **SUPPLY FROM:** MSB | **MOUNTING:** SURFACE | **ENCLOSURE:** TYPE 1
MANUFACTURER: SQUARE D | **MODEL:** NQ | **PANEL NOTES:** | **VOLTS:** 120/208 Wye,4-WIRE
A.I.C. RATING: COORDINATE | **MAINS TYPE:** MCB | **MAINS RATING:** 400 A | **MCB RATING:** 400 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A20		RECIRC PUMP	1	0.1	1.4		2	GRINDER PUMP		B30	2	30 A
20 A	1	A20		MECHANICAL CONTROL PANEL	3			0.5	1.4	4					
20 A	1	A20		MECH ROOM RECPTS.	5			0.9	2.2	6					
					7	2.9	2.2			8	CRU-1		C50	3	35 A
50 A	3	C50		VFD-HWP1	9			2.9	2.2	10					
					11					12					
					13	7.1	2.9			14	VFD-HWP2		C50	3	50 A
100 A	3	C100		VFD-CWP1	15			7.1	2.9	16					
					17					18					
					19	7.7	7.1			20	VFD-CWP2		C100	3	100 A
60 A	3	C60		WPB	21			7.7	7.1	22					
					23					24	SP		B50	2	40 A
					25		2.0			26					
					27					28					
					29					30					
					31					32					
					33					34					
					35					36					
20 A	1			- SPARE -	37	0.0	0.0			38					
20 A	1			- SPARE -	39		0.0	0.0		40	- SPARE -			3	100 A
20 A	1			- SPARE -	41			0.0	0.0	42					
					TOTAL LOAD:	33.5 kVA	31.9 kVA	32.9 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
HVAC	29.6 kVA	100.00%	29.6 kVA		
Motor	2.9 kVA	125.00%	3.6 kVA	**TOTAL CONN. LOAD (kVA):**	98.2 kVA
Receptacle	0.9 kVA	100.00%	0.9 kVA	**TOTAL EST. DEMAND (kVA):**	99.0 kVA
Non-Continuous	64.8 kVA	100.00%	64.8 kVA	**TOTAL CONN.:**	273 A
				TOTAL EST. DEMAND:	275 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

BRANCH PANEL: P2B

LOCATION: ELECT. 246 | **SUPPLY FROM:** MSB | **MOUNTING:** SURFACE | **ENCLOSURE:** TYPE 1
MANUFACTURER: SQUARE D | **MODEL:** NQ | **PANEL NOTES:** FEED THROUGH LUGS | **VOLTS:** 120/208 Wye,4-WIRE
A.I.C. RATING: COORDINATE | **MAINS TYPE:** MCB | **MAINS RATING:** 200 A | **MCB RATING:** 200 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A20		VAV2'S	1	0.0	0.2		2	RM 253 RECPTS.		A20	1	20 A
20 A	1	A20		RM 253 RECPTS.	3			0.2	0.7	4	RM 253 RECPTS.		A20	1	20 A
20 A	1	A20		RM 253 RECPTS.	5			0.4	1.2	6	LIGHTING		A20	1	20 A
20 A	1	A20		LIGHTING	7	1.2	1.3			8	CORRIDOR RECPTS.		A20	1	20 A
20 A	1	A20		RM 231 RECPTS.	9			0.9	1.0	10	LIGHTING		A20	1	20 A
20 A	1	A20		LOBBY LIGHTING	11					12	LIGHTING		A20	1	20 A
20 A	1	A20		RM 245 RECPTS.	13	1.3	0.2			14	RM 253 RECPTS.		A20	1	20 A
20 A	1	A20		RM 245 RECPTS.	15			1.1	0.2	16	RM 253 RECPTS.		A20	1	20 A
20 A	1	A20		RM 260 RECPTS.	17					18	RM 260 RECPTS.		A20	1	20 A
20 A	1	A20		RM 245 RECPTS.	19	0.5	0.5			20	RM 243 RECPTS.		A20	1	20 A
20 A	1	A20		RM 245 RECPTS.	21			0.5	0.5	22	RM 243 RECPTS.		A20	1	20 A
20 A	1	A20		RM 244 & 250 RECPTS.	23					24	RM 265 RECPTS.		A20	1	20 A
20 A	1	A20		RM 244 & 250 RECPTS.	25	0.9	1.4			26	RM 251 & 252 RECPTS.		A20	1	20 A
20 A	1	A20		RM 253 RECPTS.	27			0.9	1.4	28	RM 261 & 262 RECPTS.		A20	1	20 A
20 A	1	A20		RM 263 & 264 RECPTS.	29					30	RM 248 & 249 RECPTS.		A20	1	20 A
20 A	1	A20		RM 228 RECPTS.	31	1.4				32					
20 A	1	A20		RM 243 & 246 RECPTS.	33			1.4		34					
					35					36					
					37					38					
20 A	1			- SPARE -	39			0.0	0.0	40	- SPARE -			1	20 A
20 A	1			- SPARE -	41			0.0	0.0	42	- SPARE -			1	20 A
					TOTAL LOAD:	9.0 kVA	9.0 kVA	8.9 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Receptacle	21.1 kVA	73.74%	15.5 kVA		
Lighting	0.1 kVA	100.00%	0.1 kVA	**TOTAL CONN. LOAD (kVA):**	26.9 kVA
Continuous	5.8 kVA	125.00%	7.2 kVA	**TOTAL EST. DEMAND (kVA):**	22.8 kVA
				TOTAL CONN.:	75 A
				TOTAL EST. DEMAND:	63 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

BRANCH PANEL: P1B

LOCATION: ELECT. 135 | **SUPPLY FROM:** MSB | **MOUNTING:** SURFACE | **ENCLOSURE:** TYPE 1
MANUFACTURER: SQUARE-D | **MODEL:** NQ | **PANEL NOTES:** | **VOLTS:** 120/208 Wye,4-WIRE
A.I.C. RATING: COORDINATE | **MAINS TYPE:** MCB | **MAINS RATING:** 200 A | **MCB RATING:** 200 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A30		GENERATOR BATTERY CHARGER	1	0.2	0.8		2	EXTERIOR POLE LIGHTS		A20	1	20 A
20 A	1	A20		RM 134 RECPTS.	3		0.5	0.8	4	LIGHTING		A20	1	20 A
20 A	1	A20		RM 132 RECPTS.	5			0.7	0.0	6	VAV2'S		A20	1	20 A
20 A	1	A20		RECEPTACLE	7	0.9	1.3			8	RM 1109, 160, 149, & 131 RECPTS.		A20	1	20 A
20 A	1	A20		RM 151 RECPTS.	9		1.1	1.4		10	RM 156 & 157 RECPTS.		A20	1	20 A
20 A	1	A20		CORRIDOR LIGHTING	11			1.0	1.1	12	RM 152 RECPTS.		A20	1	20 A
20 A	1	A20		RM 154 & 155 RECPTS.	13	1.4	0.3			14	FCU-2		B20	2	15 A
20 A	1	A20		RM 145 RECPTS.	15		1.5	0.3		16					
20 A	1	A20		LIGHTING	17			1.1	0.9	18	UH-1		B20	2	20 A
20 A	1	A30		GENERATOR BLOCK HEATER	19	0.2	0.9			20					
20 A	1	A20		GOLF CART CHARGER	21		0.2	0.4		22	RM 152 RECPTS.		A20	1	20 A
20 A	1	A20		RM 147 RECPTS.	23			0.2	0.4	24	RM 158 RECPTS.		A20	1	20 A
20 A	1	A20		RM 146 RECPTS.	25	0.4	0.4			26	RM 145 RECPTS.		A20	1	20 A
20 A	1	A20		RM 145 RECPTS.	27		0.4	0.4		28	RM 142 RECPTS.		A20	1	20 A
20 A	1	A20		RM 145 RECPTS. PROJECTORS	29			0.4	0.4	30	RM 145 RECPTS.		A20	1	20 A
20 A	1	A20		RM 142 RECPTS.	31	0.4	0.5			32	RM 145 RECPTS.		A20	1	20 A
20 A	1	A20		RM 147 & 148 RECPTS.	33		0.5	0.7		34	RM 143 RECPTS.		A20	1	20 A
20 A	1	A20		RM 150 RECPTS.	35			0.5	0.7	36	RM 151 RECPTS.		A20	1	20 A
20 A	1	A20		RM 143 RECPTS.	37	0.7	0.9			38	RM 142 RECPTS.		A20	1	20 A
20 A	1	A20		RM 145 RECPTS.	39		0.9	0.9		40					
20 A	1	A20		RM 153 RECPTS.	41			0.9	0.9	42	JOCKEY PUMP		C20	3	15 A
					43		0.9			44					
					45					46					
					47					48					
					49					50					
20 A	1			- SPARE -	51		0.0	0.0		52	- SPARE -			1	20 A
20 A	1			- SPARE -	53			0.0	0.0	54	- SPARE -			1	20 A
					TOTAL LOAD:	10.1 kVA	10.0 kVA	9.1 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Receptacle	19.4 kVA	75.72%	14.7 kVA		
Lighting	0.8 kVA	100.00%	0.8 kVA	**TOTAL CONN. LOAD (kVA):**	29.2 kVA
Continuous	3.0 kVA	125.00%	3.7 kVA	**TOTAL EST. DEMAND (kVA):**	25.2 kVA
Non-Continuous	6.0 kVA	100.00%	6.0 kVA	**TOTAL CONN.:**	81 A
				TOTAL EST. DEMAND:	70 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

BRANCH PANEL: P2A

LOCATION: ELECT. 238 | **SUPPLY FROM:** MSB | **MOUNTING:** SURFACE | **ENCLOSURE:** TYPE 1
MANUFACTURER: SQUARE-D | **MODEL:** NQ | **PANEL NOTES:** | **VOLTS:** 120/208 Wye,4-WIRE
A.I.C. RATING: COORDINATE | **MAINS TYPE:** MCB | **MAINS RATING:** 200 A | **MCB RATING:** 200 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A20	1	DRINKING FOUNTAINS	1	0.4	0.9		2	RM 205, 242, & 268 RECPTS.	1	A20	1	20 A
20 A	1	A20		VAV1'S	3		0.0	0.9	4	RM 223 RECPTS.		A20	1	20 A
20 A	1	A20		VAV3'S	5			0.0	0.9	6	LIGHTING		A20	1	20 A
20 A	1	A20		LIGHTING	7	0.9	1.3			8	RM 237 & 238 RECPTS.		A20	1	20 A
20 A	1	A20		RM 236 RECPTS.	9		1.1	1.2		10	LIGHTING		A20	1	20 A
20 A	1	A20		RM 241 RECPTS.	11			1.1	1.4	12	RM 266 & 267 RECPTS.		A20	1	20 A
20 A	1	A20		RM 216 & 217 RECPTS.	13	1.4	1.6			14	RM 205, 209, & 222 RECPTS.	1	A20	1	20 A
20 A	1	A20		RM 241 RECPTS.	15		1.3	1.6		16	RM 215 RECPTS.		A20	1	20 A
20 A	1	A20		RM 212 & 213 RECPTS.	17			1.4	0.2	18	RM 239 RECPTS.		A20	1	20 A
20 A	1	A20		RM 239 RECPTS.	19	0.2	0.2			20	RM 223 RECPTS.		A20	1	20 A
20 A	1	A20		RM 239 RECPTS.	21		0.2	0.2		22	RM 235 & 139 RECPTS.		A20	1	20 A
20 A	1	A20		RM 239 RECPTS.	23			0.2	0.4	24	STOCK TICKER SIGNAGE		A20	1	20 A
20 A	1	A20		RM 214 RECPTS.	25	0.4	0.5			26	RM 214 RECPTS.		A20	1	20 A
20 A	1	A20		RM 239 RECPTS.	27		0.4	0.5		28	RM 214 RECPTS.		A20	1	20 A
20 A	1	A20		RM 214 RECPTS.	29			0.5	0.7	30	RM 227 RECPTS.		A20	1	20 A
20 A	1	A20		RM 223 RECPTS.	31	0.7	0.7			32	RM 211 RECPTS.			1	0 A
20 A	1	A20		RM 225 & CORRIDOR RECPTS.	33		0.7			34					
					35					36					
					37					38					
20 A	1			- SPARE -	39		0.0	0.0		40	- SPARE -			1	20 A
20 A	1			- SPARE -	41			0.0	0.0	42	- SPARE -			1	20 A
					TOTAL LOAD:	9.2 kVA	8.0 kVA	6.8 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Receptacle	21.1 kVA	73.74%	15.5 kVA		
Continuous	3.1 kVA	125.00%	3.8 kVA	**TOTAL CONN. LOAD (kVA):**	24.1 kVA
				TOTAL EST. DEMAND (kVA):	19.4 kVA
				TOTAL CONN.:	67 A
				TOTAL EST. DEMAND:	54 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

BRANCH PANEL: PLS2B

LOCATION: ELECT. 246 | **SUPPLY FROM:** PLS | **MOUNTING:** SURFACE | **ENCLOSURE:** TYPE 1
MANUFACTURER: SQUARE D | **MODEL:** NQ | **PANEL NOTES:** FEED THROUGH LUGS | **VOLTS:** 120/208 Wye,4-WIRE
A.I.C. RATING: COORDINATE | **MAINS TYPE:** MCB | **MAINS RATING:** 100 A | **MCB RATING:** 100 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A20		WEST EXTERIOR LIGHTING	1	0.1	0.2		2	EM LIGHTING		A20	1	20 A
20 A	1	A20		EM LIGHTING	3		0.1	0.2	4	STAIR A LIGHTING		A20	1	20 A
20 A	1	A20		STAIR C LIGHTING	5			0.2	0.1	6	EAST EXTERIOR LIGHTING		A20	1	20 A
20 A	1	A20		NORTH EXTERIOR LIGHTING	7	0.2	0.7			8	LOBBY EM LIGHTING		A20	1	20 A
20 A	1	A20		EM LIGHTING	9		0.2	0.7		10	CORRIDOR EM LIGHTING		A20	1	20 A
20 A	1	A20		SOUTH EXTERIOR LIGHTING	11			0.2	0.3	12	EM LIGHTING		A20	1	20 A
--	1			- SPACE -	13	--	1.2			14					
--	1			- SPACE -	15		--	1.5		16	PLS3B		C50	3	50 A
20 A	1	A20		EM LIGHTING	17			0.3	1.1	18					
20 A	1	A20		HVAC SMOKE DAMPERS	19	0.2				20					
					21					22					
					23					24					
					25					26					
					27					28					
					29					30					
					31					32					
					33					34					
					35					36					
					37					38					
20 A	1			- SPARE -	39		0.0	0.0		40	- SPARE -			1	20 A
20 A	1			- SPARE -	41			0.0	0.0	42	- SPARE -			1	20 A
					TOTAL LOAD:	2.6 kVA	2.7 kVA	2.1 kVA							

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS	
Lighting	0.5 kVA	100.00%	0.5 kVA		
Continuous	6.6 kVA	125.00%	8.3 kVA	**TOTAL CONN. LOAD (kVA):**	7.4 kVA
Non-Continuous	0.3 kVA	100.00%	0.3 kVA	**TOTAL EST. DEMAND (kVA):**	9.1 kVA
				TOTAL CONN.:	21 A
				TOTAL EST. DEMAND:	25 A

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
1. GFCI
2. COMBINATION AFCI
3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
4. 30mA GFPE
5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
A. CONTINUOUS METAL RACEWAY

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PROJECT
JOHNSON HALL RENOVATION & FOSTER DEMOLITION
JOHNSON HALL RENOVATION - PKG. 2
SBC Nº 364/011-04-2022CM

LOCATION
COOKEVILLE, TN

OWNER
TENNESSEE TECH. UNIVERSITY

SEAL
GARY DALE LOFTIS, REGISTERED ENGINEER, AGRICULTURAL, STATE OF TENNESSEE
05/16/2025
03/28/2025

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NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2025/23/05

JOB NO.
22089

ISSUE DATE
03/28/2025

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

DRAWN
CWA

REVIEW
AJG

E4.3

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