

ARCHITECT:

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1401 S. Denver, Suite B
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PROJECT:

BA Academy Interior Renovation
412 S. 9th St.
Broken Arrow, OK. 74012

ADDENDUM NUMBER ONE

August 14, 2024

THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS TO THE SAME EXTENT AS THOUGH IT WAS ORIGINALLY INCLUDED THEREIN, AND IT SHALL SUPERSEDE ANYTHING CONTAINED IN THE PLANS AND SPECIFICATIONS WITH WHICH IT MIGHT CONFLICT.

CLARIFICATION:

1. The addendum includes door hardware specifications, clarifications on add alternates and owner completed work.

DRAWINGS:

1. Architectural: A100, A101, A111, A601 and A611

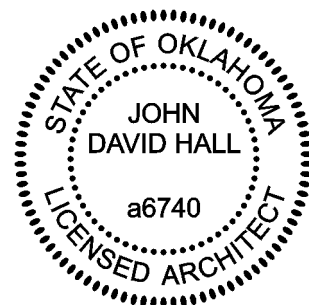
SPECIFICATIONS:

1. Architectural:
 - a. 08 1113 Hollow Metal Doors and Frames
 - b. 08 7100 Door Hardware

ATTACHMENTS:

1. Drawings noted above.

END OF ADDENDUM ONE



John D Hall

8/14/24

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section "Flush Wood Doors".
4. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
5. Division 08 Section "Door Hardware".
6. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

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9. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
10. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
11. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
12. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
13. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
14. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
15. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
16. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.
- B. Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.
- C. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.
- D. Shop Drawings: Include the following:
 1. Elevations of each door design.
 2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 4. Locations of reinforcement and preparations for hardware.
 5. Details of anchorages, joints, field splices, and connections.
 6. Details of accessories.
 7. Details of moldings, removable stops, and glazing.
 8. Details of conduit and preparations for power, signal, and control systems.
- E. Samples for Verification:
 1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.
- B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

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- C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40" above sill) or UL 10C.
 - 1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
 - 2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
 - 3. Smoke Control Door Assemblies: Comply with NFPA 105.
 - a. Smoke "S" Label: Doors to bear "S" label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.
- D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.
- E. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.
 - 1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

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1.7 COORDINATION

- A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.
- B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
- B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:
 - 1. CECO Door Products (C).
 - 2. Curries Company (CU).

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
- C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

- A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.
- B. Interior Doors (Energy Efficient): Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A366 or 620. Provide doors complying with requirements indicated

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below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Steel stiffened laminated core with fiberglass filler with no stiffener face welds, in compliance with HMMA 867 "Laminated Core".
 - a. Provide 22-gauge steel-stiffeners at 6 inches on-center internally welded at 5" on-center to integral core assembly, no stiffener face welding is permitted.
 - b. Acoustical sound transmission rating shall be no less than STC 38 complying with ASTM E 90 and must be visible on factory applied labels.
3. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
4. Vertical Edges: Vertical edges—to be mechanically interlocked with hairline seam. Beveled Lock Edge, 1/8 inch in 2 inches (3 mm in 50 mm).
5. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
6. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9".
7. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Manufacturers Basis of Design:

1. Curries Company (CU) - Energy Efficient - 777 Trio-E Series.

2.4 HOLLOW METAL FRAMES

- A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.
- B. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.
 1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
 2. Frames: Minimum 14 gauge (0.067-inch -1.7-mm) thick steel sheet.
 3. Manufacturers Basis of Design:
 - a. Curries Company (CU) - M Series.
- C. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.
- D. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.5 FRAME ANCHORS

- A. Jamb Anchors:

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1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
 2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
 3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.
- B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.
- C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.6 LIGHT OPENINGS AND GLAZING

- A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator's shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.
- B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.
- C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.
- D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.7 ACCESSORIES

- A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.
- B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.8 FABRICATION

- A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.
- B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.
- C. Hollow Metal Doors:

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1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
 - a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.
3. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
4. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
5. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
6. Jamb Anchors: Provide number and spacing of anchors as follows:
 - a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:
 - 1) Two anchors per jamb up to 60 inches high.
 - 2) Three anchors per jamb from 60 to 90 inches high.
 - 3) Four anchors per jamb from 90 to 120 inches high.
 - 4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.
 - b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
 - 1) Three anchors per jamb up to 60 inches high.
 - 2) Four anchors per jamb from 60 to 90 inches high.
 - 3) Five anchors per jamb from 90 to 96 inches high.
 - 4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
 - 5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.

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7. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
- E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."
1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
 2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
 3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
 4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.9 STEEL FINISHES

- A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.

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- C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."
- D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.
- E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.
 - 1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
 - 2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
 - 3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
 - 4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.
- C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
 - 1. Non-Fire-Rated Standard Steel Doors:
 - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
 - c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
 - d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
 - 2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.
- D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

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- B. Remove grout and other bonding material from hollow metal work immediately after installation.
- C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

END OF SECTION 081113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 - Access Control System Units.
 - 4. UL 305 - Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- D. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.

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- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

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1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 DOOR OPERATING TRIM

- A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 - 2. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
 - 3. Manufacturers:
 - a. Rockwood (RO).

2.2 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
 - 1. Manufacturers:
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 - 1. Threaded mortise cylinders with rings and cams to suit hardware application.

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2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 4. Tubular deadlocks and other auxiliary locks.
 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 6. Keyway: Match Facility Standard.
- C. Large Format Interchangeable Cores: Provide removable cores (LFIC) as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.
- D. Keying System: Each type of lock and cylinders to be factory keyed.
1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Three (3).
 2. Master Keys (per Master Key Level/Group): Five (5).
 3. Construction Keys (where required): Ten (10).
- F. Construction Keying: Provide construction master keyed cylinders.
- G. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 2. Provide transcript list in writing or electronic file as directed by the Owner.
- 2.3 MORTISE LOCKS AND LATCHING DEVICES
- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ML2000 Series.
 - b. No Substitution.

2.4 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 4. Dustproof Strikes: BHMA A156.16.

2.5 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

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6. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
7. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
8. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
9. Rail Sizing: Provide exit device rails factory sized for proper door width application.
10. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
 - a. Von Duprin (VD) - 35A/98 XP Series.
 - b. No Substitution.

2.6 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:
 - a. LCN Closers (LC) - 4040XP Series.

- b. No Substitution.

2.7 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:
 - a. Rockwood (RO).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 - 1. Manufacturers:
 - a. Rockwood (RO).
 - b. Glynn-Johnson.
 - c. No Substitution.

2.8 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
- D. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

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E. Manufacturers:

1. Pemko (PE).

2.9 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.10 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

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1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.5 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.

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- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

- B. Manufacturer's Abbreviations:

1. IV - Ives
2. OT - Other
3. VO - Von Duprin
4. RU - Corbin Russwin
5. RO - Rockwood
6. RF - Rixson
7. LC - LCN Closers
8. PE - Pemko

Hardware Sets

Set: 1.0

Doors: 101, 105, 113, 119

6 Hinge, Full Mortise	5BB1 4-1/2" x 4"	626	IV
1 Mullion	KR9954 x Cylinder 59A1 CTR6	.689	VO
2 Fire Rated Rim Exit	.QM 99.LF .SNB .996L(Std) .03 x Cylinder 59A1 CTR6	.628	VO
2 Surface Closer	4040XP .SCUSH .TBSRT	.689	LC

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2 Astragal	305CN		PE
1 Gasketing	S88BL		PE

Set: 1.1

Doors: 104

6 Hinges	Existing to be reused		OT
1 Mullion	KR9954 x Cylinder 59A1 CTR6	.689	VO
2 Fire Rated Rim Exit	.QM 99.L.F .SNB .996L(Std) .03 x Cylinder 59A1 CTR6	.628	VO
2 Surface Closer	4040XP .SCUSH .TBSRT	.689	LC
2 Astragal	305CN		PE
1 Gasketing	S88BL		PE

Set: 2.0

Doors: 101E, 101G

3 Hinges	Existing to be reused		OT
1 Storeroom Lock	ML2057 LWA 59A1 CT6R	630	RU
1 Surface Closer	4040XP .RWPA .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
1 Gasketing	S88BL		PE

Set: 3.0

Doors: 101D

3 Hinges	Existing to be reused		OT
1 Storeroom Lock	ML2057 LWA 59A1 CT6R	630	RU
1 Surface Closer	4040XP .SCUSH .TBSRT	.689	LC
1 Gasketing	S88BL		PE

Set: 4.0

Doors: E102B, E102C

3 Hinge, Full Mortise	5BB1 4-1/2" x 4"	626	IV
1 Storeroom Lock	ML2057 LWA 59A1 CT6R	630	RU
1 Wall Stop	409	US32D	RO
3 Silencer	608-RKW		RO

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Set: 4.1

Doors: 121A

3 Hinges	Existing to be reused		OT
1 Storeroom Lock	ML2057 LWA 59A1 CT6R	630	RU
1 Wall Stop	409	US32D	RO
3 Silencer	608-RKW		RO

Set: 5.0

Doors: E106B, E107B, E111B, E112B, E117B, E117C

3 Hinge, Full Mortise	5BB1 4-1/2" x 4"	626	IV
1 Storeroom Lock	ML2057 LWA 59A1 CT6R	630	RU
1 Surf Overhead Stop	9-X36	630	RF
3 Silencer	608-RKW		RO

Set: 6.0

Doors: 101C, 101F, 102A

3 Hinges	Existing to be reused		OT
1 Entrance Lock	ML2042 LWA 59A1 CT6R	630	RU
1 Surface Closer	4040XP .RWPA .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
1 Gasketing	S88BL		PE

Set: 7.0

Doors: E103C

3 Hinge, Full Mortise	5BB1 4-1/2" x 4"	626	IV
1 Entrance Lock	ML2042 LWA 59A1 CT6R	630	RU
1 Surface Closer (Hold Open)	4040XP .HWP .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
3 Silencer	608-RKW		RO

Set: 7.1

Doors: 103

3 Hinges	Existing to be reused		OT
1 Entrance Lock	ML2042 LWA 59A1 CT6R	630	RU
1 Surface Closer (Hold Open)	4040XP .HWP .TBSRT	.689	LC

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1 Wall Stop	409	US32D	RO
3 Silencer	608-RKW		RO

Set: 8.0

Doors: 106A, 107A, 108, 109, 111A, 112A

3 Hinges	Existing to be reused		OT
1 Classroom Lock	ML2055 LWA 59A1 CT6R	630	RU
1 Surface Closer	4040XP .RWPA .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
1 Gasketing	S88BL		PE

Set: 9.0

Doors: 117A

3 Hinges	Existing to be reused		OT
1 Passage Latch	ML2010 LWA	630	RU
1 Surface Closer	4040XP .RWPA .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
1 Gasketing	S88BL		PE

Set: 10.0

Doors: 115

3 Hinges	Existing to be reused		OT
1 Passage Latch	ML2010 LWA	630	RU
1 Surface Closer	4040XP .SCUSH .TBSRT	.689	LC
1 Gasketing	S88BL		PE

Set: 11.0

Doors: E103B

3 Hinge, Full Mortise	5BB1 4-1/2" x 4"	626	IV
1 Privacy Lock	ML2030 LWA	630	RU
1 Surface Closer	4040XP .RWPA .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
3 Silencer	608-RKW		RO

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Set: 12.0

Doors: 116, 118

3 Hinges	Existing to be reused		OT
1 Push Plate	70E	US32D-316	RO
1 Pull	RM301 Mtg-Type 1XHD	US32D-316	RO
1 Surface Closer	4040XP .RWPA .TBSRT	.689	LC
1 Wall Stop	409	US32D	RO
3 Silencer	608-RKW		RO

Set: 13.0

Doors: E101A, E101B, E103A, E103D, E114, E121

1 Door, frame and hardware	Existing to be reused		OT
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END OF SECTION 087100

Revision	Date	By
1	8/12/2024	WORK BY OWNER

OUTSIDE AREA OF WORK

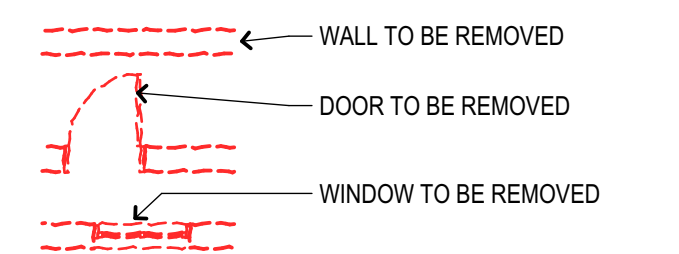
GENERAL NOTES

- LOCKERS TO REMAIN.
- CEILING GRID AND MECHANICAL DEVICES TO REMAIN.
- REMOVE ALL ACOUSTICAL CEILING TILES.
- REMOVE ALL LIGHT FIXTURES.
- FIRE ALARM AND DEVICES TO REMAIN.
- REMOVE ALL INTERIOR DOOR HARDWARE.

KEYED NOTES

- NO WORK IN THIS AREA
- PREPARE SLAB FOR NEW FLOORING
- REMOVE MILLWORK
- FLOORING TO REMAIN
- REMOVE WATER COOLER
- MILLWORK TO REMAIN
- REMOVE FLOORING
- CAP PLUMBING
- REMOVE SINK
- REMOVE DOOR AND FRAME
- CUT OPENING IN WALL FOR NEW DOOR
- CUT OPENING IN WALL FOR NEW WINDOW
- DEMOLISH WALL
- RELOCATE FIRE EXTINGUISHER CABINET

DEMOLITION LEGEND



DEMOLITION NOTES

- COORDINATE WITH OWNER TRANSFER AND/OR STORAGE OF ALL ITEMS TO BE SALVAGED BY CONTRACTOR AND RETAINED BY OWNER.
- REFER TO FLOOR PLAN FOR NEW LOCATIONS OF EXISTING ITEMS TO BE RELOCATED.
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING P-M-E ITEMS TO BE REMOVED OR RELOCATED.

Project Title
BA Academy Interior Renovation
412 S 9th St
Broken Arrow, OK 74012
Broken Arrow Public Schools

Sheet Title
DEMOLITION PLAN

Drawn Project Number 2416

Checked

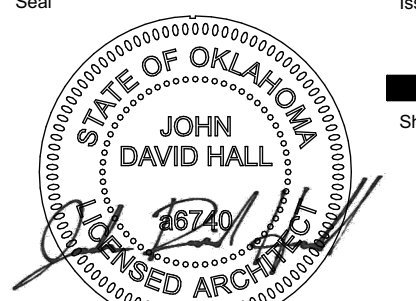
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Issue Date 8/12/2024

Sheet Number

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8/12/2024



REFER TO SPEC SECTION 01 2300 ALTERNATES. ALL WORK IN CLASSROOMS 109, 111 AND 112 TO BE ADD ALTERNATE NO. 1.

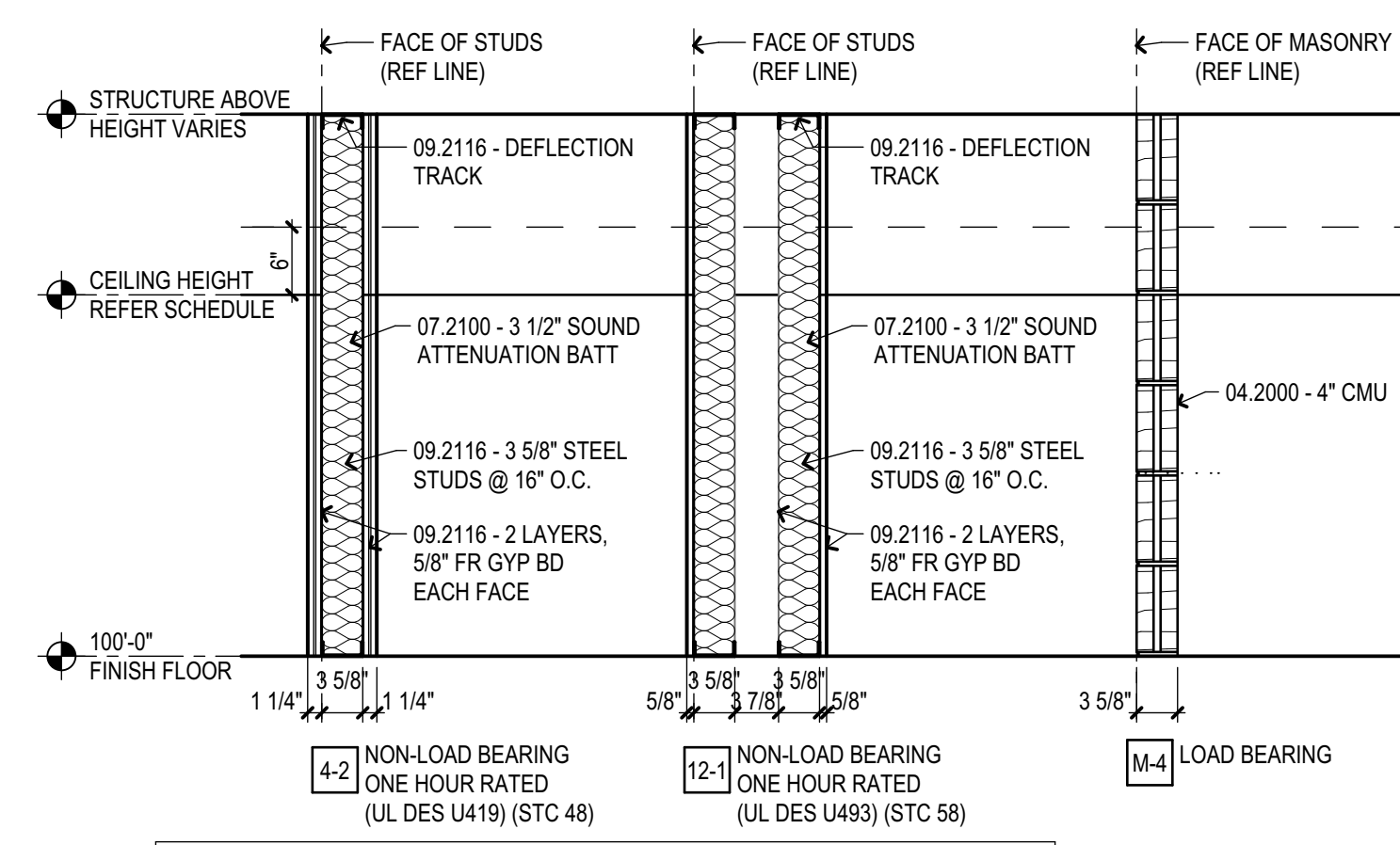
CMU AND BRICK MASONRY WALL TO BE DEMOLISHED FOR NEW DOOR OPENING BY OWNER.

THIS WALL IS TO BE MODIFIED TO BE A 2 HR RATED WALL. (DO NOT REMOVE WALL)

NO WORK IN OFFICE 103. ALL WORK BY OWNER WITH THE EXCEPTION OF THE DOOR AND FRAME REMOVAL FROM OFFICE 103 BY CONTRACTOR.

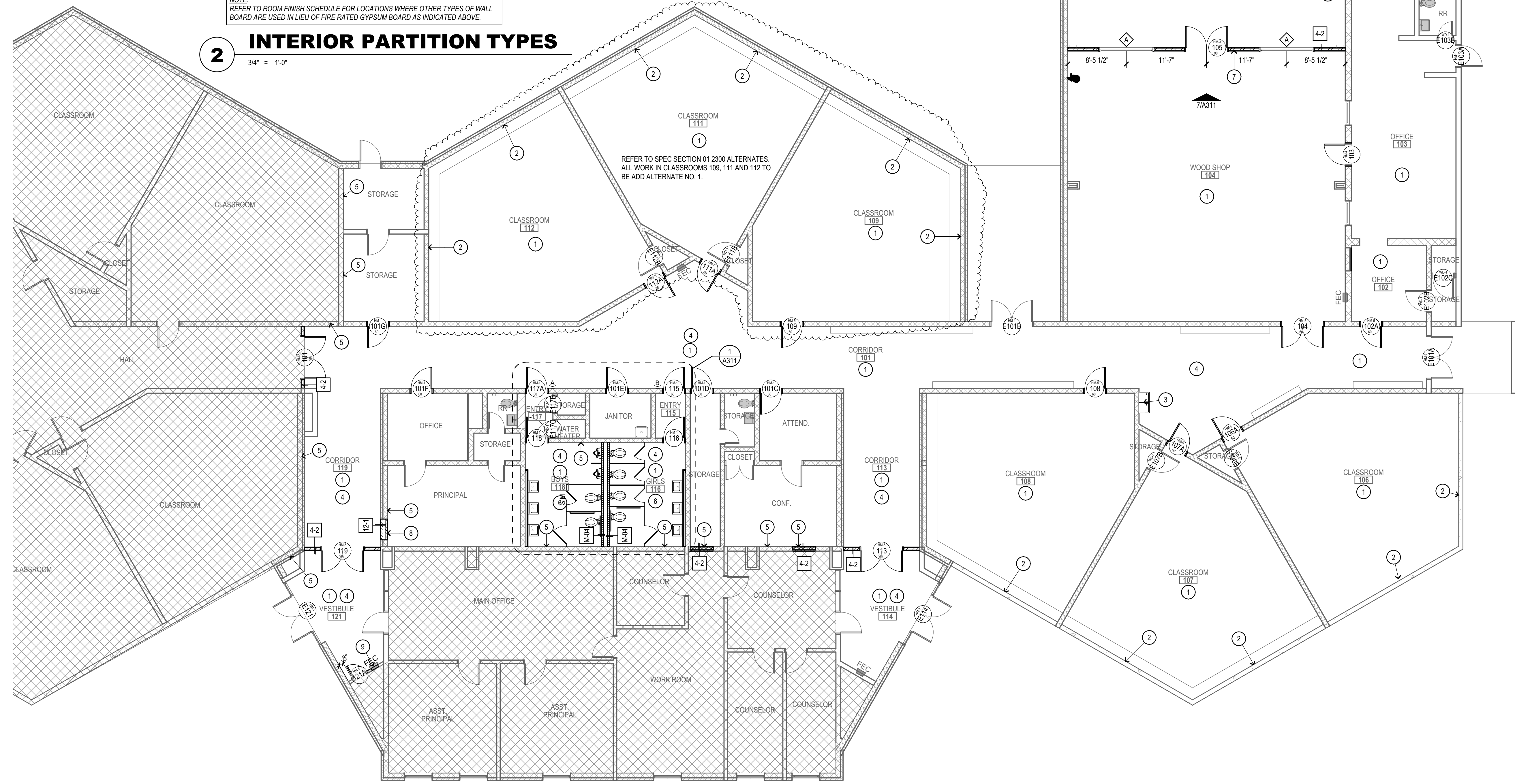


DEMOLITION PLAN



NOTE:
REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS WHERE OTHER TYPES OF WALL BOARD ARE USED IN LIEU OF FIRE RATED GYPSUM BOARD AS INDICATED ABOVE.

2 INTERIOR PARTITION TYPES
3/4" = 1'-0"



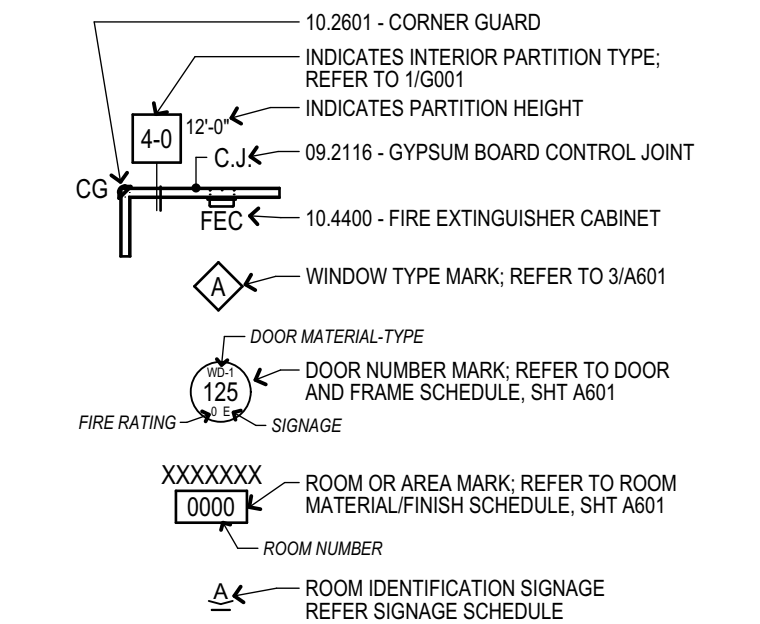
Revision	Date	Description
1	8/12/2024	ADD ALTERNATE NOTE

OUTSIDE AREA OF WORK

KEYED NOTES

- PREPARE AND REPAIR WALLS AS NEEDED FOR PAINTING
- PREPARE SOLID WINDOW PANELS FOR PAINT
- INSTALL NEW HIGH AND LOW WATER COOLER UNIT
- PATCH AND REPAIR EXISTING FLOORING
- PATCH AND REPAIR PENETRATIONS IN 2 HOUR WALL
- MODIFY EXISTING PLUMBING FOR NEW ADA RESTROOM LAYOUT
- MODIFY EXISTING WALL TO 2 HOUR RATED WALL PAINT TO MATCH ADJACENT WALL
- MODIFY EXISTING WALL TO 1 HOUR RATED WALL PAINT TO MATCH ADJACENT WALL
- RELOCATE EXISTING FIRE EXTINGUISHER CABINET

FLOOR PLAN LEGEND



FLOOR PLAN NOTES

- ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY UNLESS OTHERWISE NOTED.
- LOCATE DOORS 6" FROM NEAREST CORNER TO OPENING FACE OF DOUBLE STUDS AT JAMB UNLESS OTHERWISE DIMENSIONED.
- ALL ANGLES ARE 45°, 90° OR 135° UNLESS OTHERWISE NOTED.
- NEW PARTITIONS THAT APPEAR TO ALIGN WITH EXISTING PARTITIONS OR OTHER ARCHITECTURAL ELEMENTS SHALL ALIGN FINISH SURFACE FLUSH WITH FINISH SURFACE UNLESS OTHERWISE NOTED.

Project Title
BA Academy Interior Renovation
412 S 9th St
Broken Arrow, OK 74012
Broken Arrow Public Schools

FLOOR PLAN

Drawn _____ Project Number **2416**

Checked _____

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Issue Date **8/12/2024**

Sheet Number

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8/12/2024



FLOOR PLAN


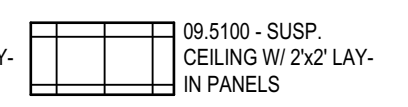
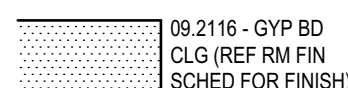
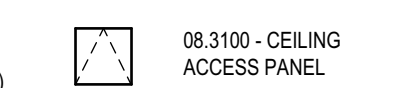
Revision	Date	Description
1	8/12/2024	ADD ALTERNATE NOTE

 OUTSIDE AREA OF WORK

- GENERAL NOTES**
1. CEILING GRID AND MECHANICAL DEVICES TO REMAIN.
 2. REPLACE ALL ACOUSTICAL CEILING TILES.
 3. REPLACE LIGHT FIXTURES.
 4. FIRE ALARM AND DEVICES TO REMAIN.



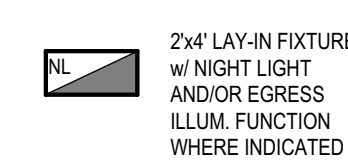
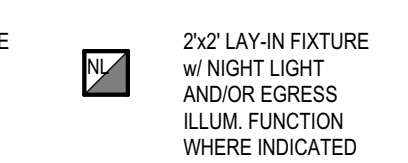
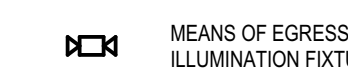
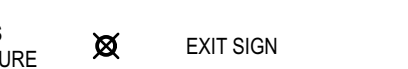

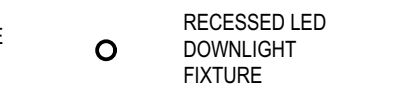
RCP SYMBOL LEGEND

CEILING CONSTRUCTION SYMBOLS

 09.5100 - SUSP. CEILING W/ 2'x4' LAY-IN PANELS	 09.5100 - SUSP. CEILING W/ 2'x2' LAY-IN PANELS
 09.2116 - GYP BD CLG (REF RM FIN SCHED FOR FINISH)	 08.3100 - CEILING ACCESS PANEL



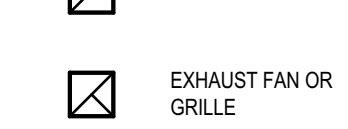
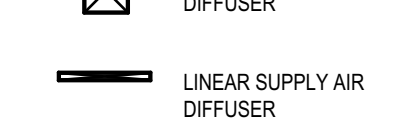
LIGHT FIXTURE SYMBOLS

REFER ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE

 2'x4' LAY-IN LED FIXTURE	 2'x2' LAY-IN LED FIXTURE
 2'x4' LAY-IN FIXTURE w/ NIGHT LIGHT AND/OR EGRESS ILLUM. FUNCTION WHERE INDICATED	 2'x2' LAY-IN FIXTURE w/ NIGHT LIGHT AND/OR EGRESS ILLUM. FUNCTION WHERE INDICATED
 MEANS OF EGRESS ILLUMINATION FIXTURE	 EXIT SIGN
 LED STRIP FIXTURE	 RECESSED LED DOWNLIGHT FIXTURE



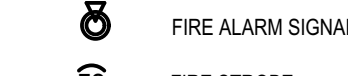
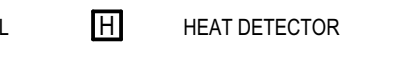

HVAC DEVICE SYMBOLS

REFER MECHANICAL DRAWINGS FOR EQUIPMENT SCHEDULE

 RETURN AIR GRILLE	 SUPPLY AIR DIFFUSER
 EXHAUST FAN OR GRILLE	 LINEAR SUPPLY AIR DIFFUSER

FIRE PROTECTION, ALARM, & DETECTION DEVICE SYMBOLS

REFER FIRE PROTECTION DRAWINGS FOR EQUIPMENT SCHEDULE

 SPRINKLER HEAD	 SMOKE DETECTOR
 FIRE ALARM SIGNAL	 HEAT DETECTOR
 FIRE STROBE	

SECURITY / SURVEILLANCE / COMMUNICATIONS DEVICE SYMBOLS

REFER LOW VOLTAGE DRAWINGS FOR EQUIPMENT SCHEDULE

 SPEAKER	 CAMERA
 INTERCOM UNIT	 MOTION DETECTOR

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

REFLECTED CEILING PLAN


Drawn _____ Project Number **2416**

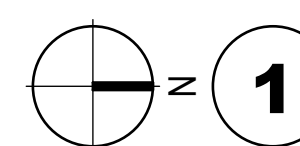
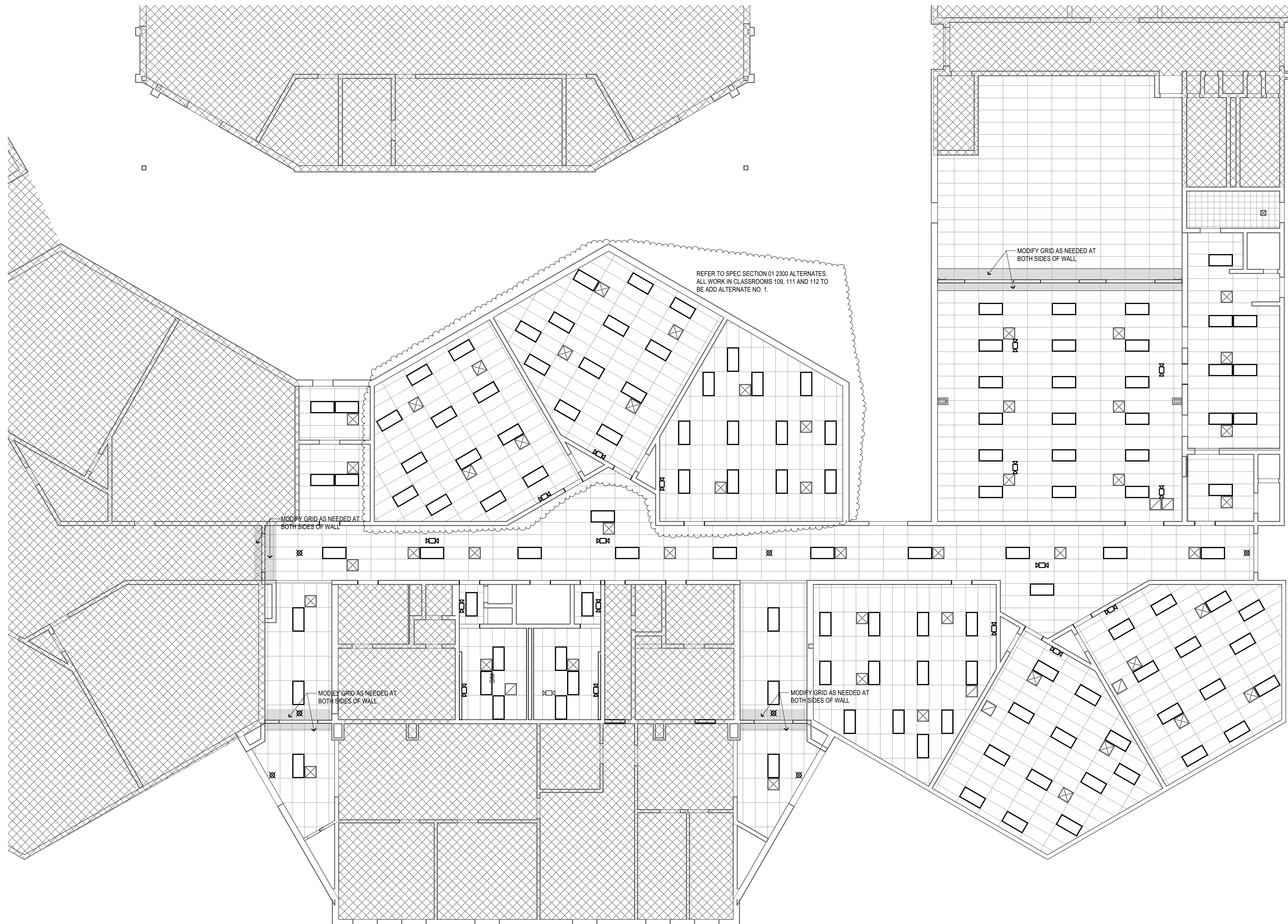
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Issue Date **8/12/2024**

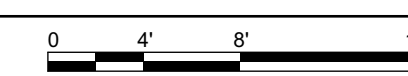
Sheet Number

 **A111**
8/12/2024



REFLECTED CEILING PLAN

1/8" = 1'-0"



ROOM FINISH SCHEDULE LEGEND

FLOOR FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
CONC-1	03 3000	CONCRETE SEALER / HARDENER	CONCRETE	EXISTING
CPT-1	09 6813	CARPET TILE - 18" x 36"	CONCRETE	J & J FLOORING / JOURNEY, QUICK SHIP, 3353 GOLD LEAD
ECPT	09 6813	EXISTING CARPET TOREMAIN	CONCRETE	EXISTING
EVT	09 6519	REPAIR EXISTING VINYL TILE	CONCRETE	MATCH EXISTING
TILE-1	09 3000	12"x24" PORCELAIN TILE	CONCRETE	CROSSVILLE / ACCESS POINT, TRAVERTINE ASH, UPS - UNPOLISHED WITH CROSS-SHEEN

WALL FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
PT-1	09 9000	LATEX PAINT	CMU BLOCK	SHERWIN WILLIAMS / ANEW GRAY SW7030
PT-2	09 9000	LATEX PAINT	GYPSUM BOARD	SHERWIN WILLIAMS / ANEW GRAY SW7030
TILE-1	09 3000	12"x24" PORCELAIN TILE	CMU BLOCK OR GYPSUM	CROSSVILLE / ACCESS POINT, TRAVERTINE ASH, UPS - UNPOLISHED WITH CROSS-SHEEN

BASE FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
RB-1	09 6513	4" RUBBER BASE	CMU BLOCK OR GYPSUM	ROPPE / DOLPHIN 129
TILE-2	09 3000	MATCH FLOOR TILE 4"x24"	CMU BLOCK OR GYPSUM	CROSSVILLE / ACCESS POINT, TRAVERTINE ASH, UPS - UNPOLISHED WITH CROSS-SHEEN

CEILING FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
ACP-1	09 5100	NEW 2x2x3/4 ACOUSTICAL PANELS	EXISTING SUSPENSION SYSTEM	#76775 - ECLIPSE SLT EDGE TILE

OTHER FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
DR-1	08 1000	LATEX PAINT	INTERIOR METAL DOORS	SHERWIN WILLIAMS / DOVETAIL SW7018
DR-2	09 9000	LATEX PAINT	HOLLOW METAL FRAMES	SHERWIN WILLIAMS / GRIZZLE GRAY SW7068
GR-1	09 3000	GROUT	CONCRETE	MAPIE / 107 IRON

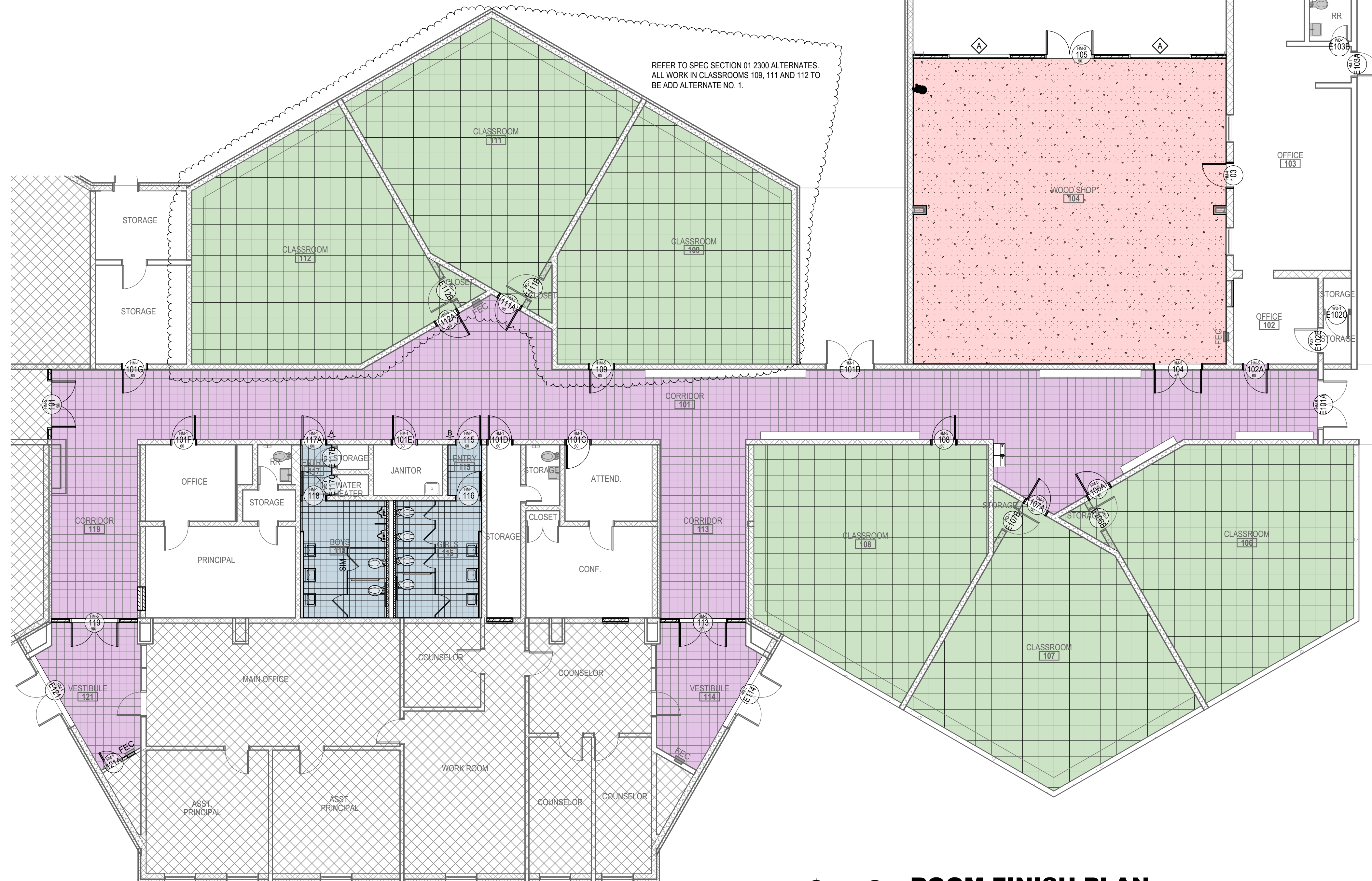
ROOM MATERIAL-FINISH SCHEDULE										
#	ROOM NAME	FLOOR	BASE	N WALL	E WALL	S WALL	W WALL	CEILING	CLG HT	REMARKS
101	CORRIDOR	EVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	REPAIR EXISTING FLOORING
102	OFFICE	ECPT	RB-1	PT-2	PT-2	PT-2	PT-2	ACP-1	8'-0"	
103	OFFICE	ECPT	RB-1	PT-2	PT-2	PT-2	PT-2	ACP-1	8'-0"	
104	WOOD SHOP	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACP-1	10'-6"	
105	CLASSROOM	EXISTING	VARIABLES	EXISTING	EXISTING	PT-1	EXISTING	EXISTING	EXISTING	REPLACE BASE AT S WALL AS NEEDED MATCH EXISTING
106	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
107	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
108	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
109	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
111	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
112	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
113	CORRIDOR	EVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACP-1	8'-7"	REPAIR EXISTING FLOORING
114	VESTIBULE	EVT-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACP-1	8'-7"	REPAIR EXISTING FLOORING
115	ENTRY	TILE-1	TILE-4	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
116	GIRLS	TILE-1	TILE-4	PT-1/TILE-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
117	ENTRY	TILE-1	TILE-4	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
118	BOYS	TILE-1	TILE-4	PT-1	PT-1	PT-1/TILE-1	PT-1	ACP-1	7'-8"	
119	CORRIDOR	EVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACP-1	8'-7"	REPAIR EXISTING FLOORING
121	VESTIBULE	EVT-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACP-1	8'-7"	REPAIR EXISTING FLOORING

Revision	Date	Revision
1	8/12/2024	ADD ALTERNATE NOTE

FINISH NOTES

- ALL WALLS IN AREA OF WORK TO BE PATCHED AND PAINTED.
- WHERE NEW WALLS HAVE BEEN CONSTRUCTED, THE SIDE FACING THE CONSTRUCTION AREA IS TO BE PAINTED TO MATCH ADJACENT WALL. THE OTHER SIDE DOES NOT NEED TO BE PAINTED, UNLESS NOTED OTHERWISE.

LVT-1	
TILE-1	
CPT-1	
CONC-1	



ROOM FINISH PLAN
1/8" = 1'-0"
0 4' 8' 16'

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

ROOM FINISH PLAN AND SCHEDULES

Drawn Project Number 2416

Checked

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Issue Date

8/12/2024

Issue Date

8/12/2024

Issue Date

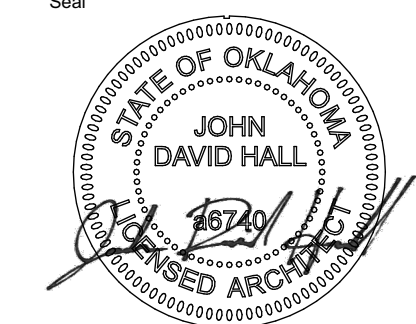
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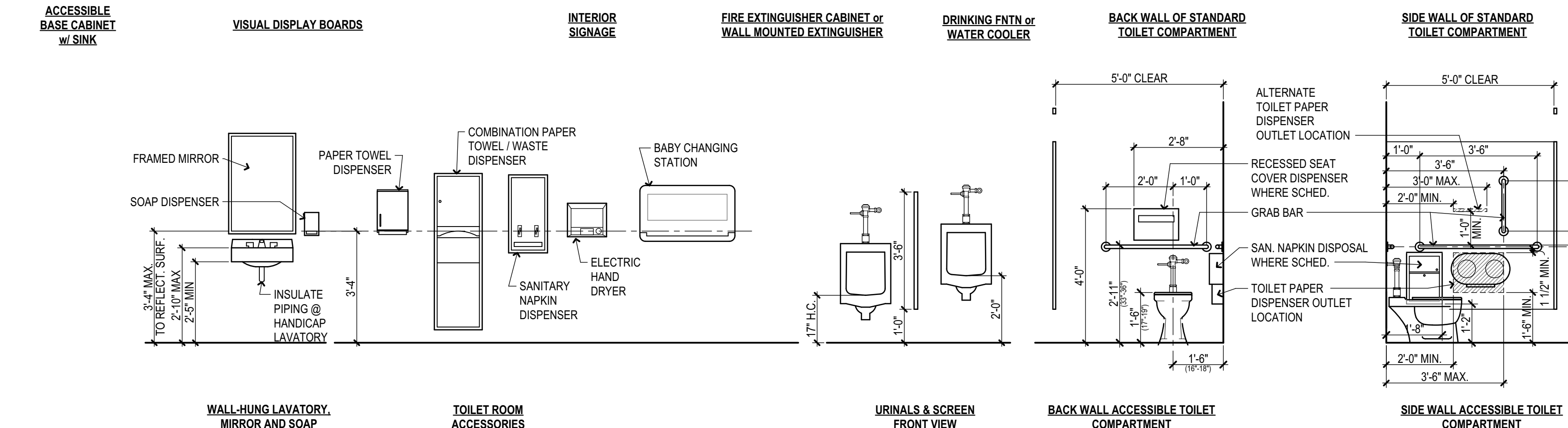
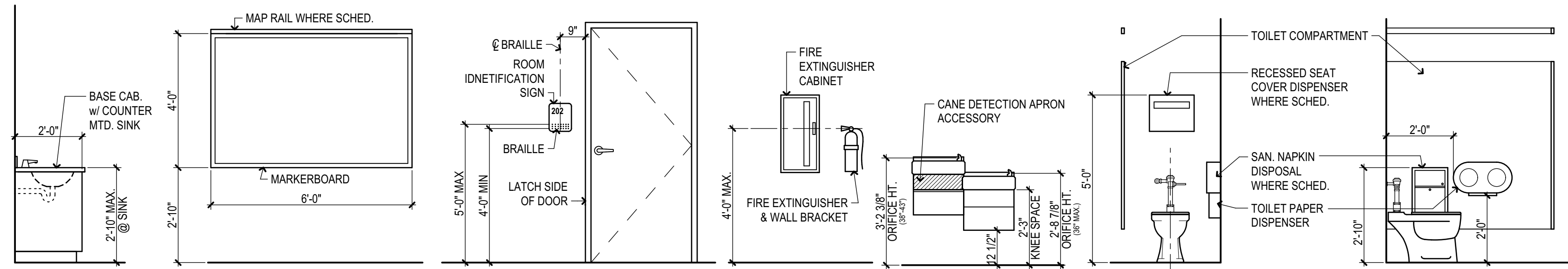
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Issue Date

8/12/2024



A601



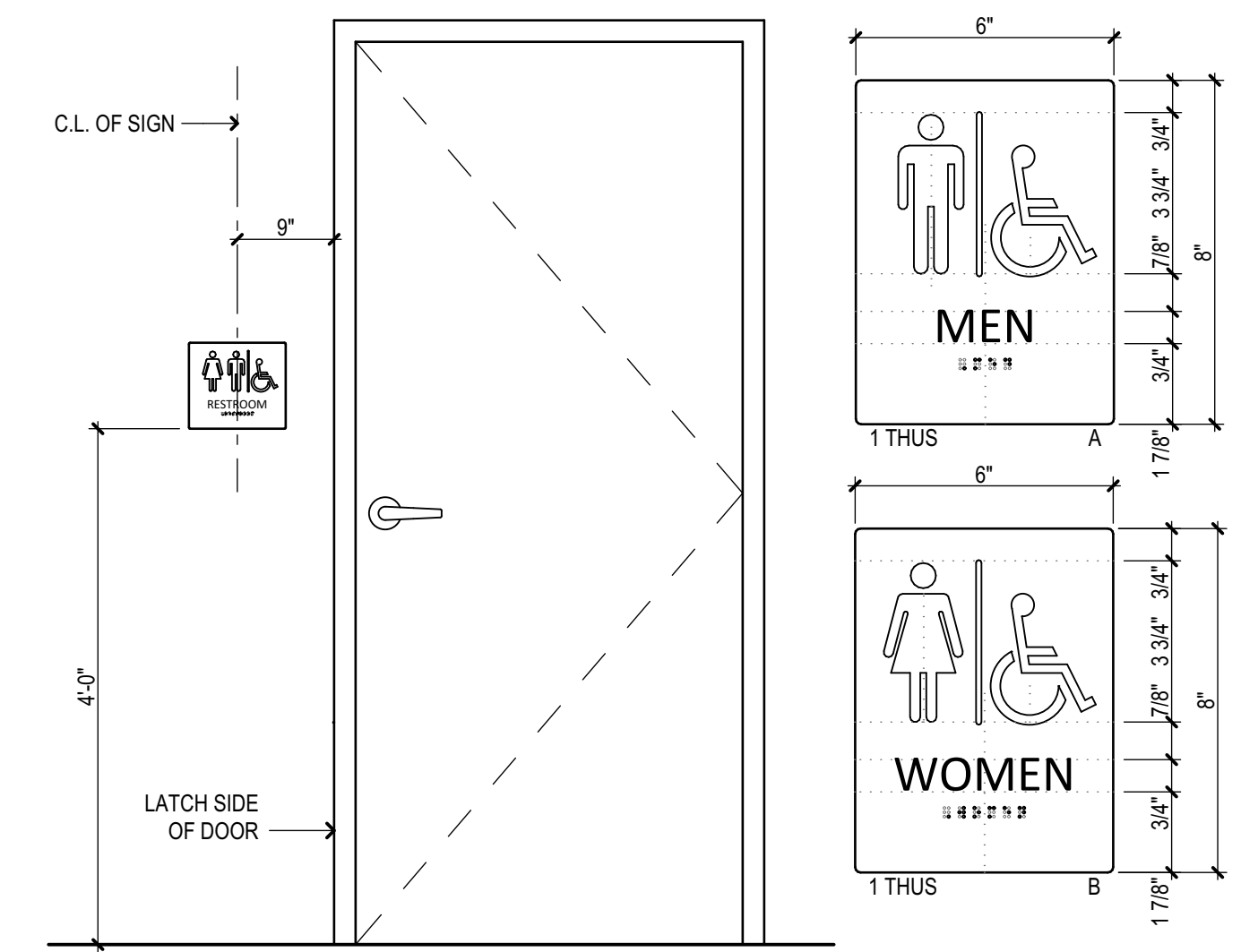
4 TYPICAL MOUNTING HEIGHTS
3/8" = 1'-0"

Function Codes for Cylindrical Locks: BHMA A156.5.

- Code F75; Passage: Latch retracted by levers at all times.
- Code F76; Privacy Lock: Outside lever locked by pushbutton on inside lever. Rotating inside lever or closing door releases/unlocks button. Emergency release in outside lever. Hospital Privacy Lock: Latch bolt by levers. Outside lever locked by push button in inside lever. Rotating inside lever or closing door releases push button. Emergency push button in outside lever unlocks door.
- Code F77; Patio/Innr Office Lock: Outside lever locked by push button on inside lever. Rotating inside lever or closing door releases/unlocks button. Deadlocking latchbolt.
- Code F78; Communicating Lock: Deadlocking latch bolt by levers. Either lever is locked by turn button in opposite lever.
- Code F80; Communicating Lock: Deadlocking latch bolt by levers except when either lever is locked by key in its own cylinder.
- Code F81; Office Lock: Turn button locking. Turning button on inside locks outside lever until unlocked by key or by rotating the inside lever. Inside lever always free. Deadlocking latch bolt.
- Code F82; Entry Lock: Push button locking. Button on inside locks outside lever until unlocked by key or by rotating the inside lever. Inside lever always free. Deadlocking latch bolt.
- Code F83; Exit Lock: Deadlocking latch bolt by levers except when outside lever is locked by turn button inside. Turn button must be manually unlocked to operate outside lever. Inside lever always free. Exit Lock/Connecting Room: Deadlocking latch by inside lever except when locked by key. Nonremovable plate outside.
- Code F84; Classroom Lock: Outside lever key in outside lever. Inside lever always free. Deadlocking latchbolt.
- Code F85; Classroom Lock with Hold Back Feature: Deadlocking latch bolt by levers. Outside lever is locked by key in outside lever. Inside lever is always free. Latch may be held back by depressing latch and rotating key.
- Code F86; Storeroom Lock: Outside lever always locked/rigid. Latchbolt retracted by key in outside lever or by rotating inside lever. Inside lever always free. Deadlocking latchbolt. Storeroom (Electrified - Fail Safe): Latch bolt operated by lever from either side except when outer lever is electrically locked. When outer lever is locked (inoperative), latch bolt retracted by key in cylinder outside. Storeroom (Electrified - Fail Secure): Deadlocking latch bolt operated by lever inside at all times. Outside lever inoperable until electrically unlocked, then latch bolt from either side. When outside lever is operable, latch bolt retracted by key in cylinder outside.
- Code F87; Asylum Lock: Deadlocking latch bolt operated by key in lever from either side. Both levers are always inoperable.
- Code F88; Entry/Restroom Lock: Deadlocking latch bolt by levers except when outside lever is locked by key inside, then by key outside.
- Code F89; Exit Latch: Deadlocking latch bolt by inside lever. Outside lever inoperable. Exit Latch/Connecting Room: bolt by inside lever. Nonremovable blank plate outside, projection.
- Code F90; Dormitory Lock: Deadlocking levers except when locked by push button in inside lever. Key in outside lever locks/unlocks outside lever and releases button. Closing door releases push button. Inside lever always free.
- Code F91; Store Door Lock: Deadlocking latch bolt by levers. Key in either lever locks/unlocks both levers.
- Code F92; Service Station Door Lock: Deadlocking latch bolt by lever from either side except when outside lever is locked by universal push button in inside lever. Inside lever always free. When outside lever is locked, latch bolt may be retracted by turning key or rotating inside lever. Turning key, rotating inside lever, or closing door releases universal push button and outside lever, except when Universal push button has been rotated to a position which keeps the outside lever locked at all times.
- Code F93; Hotel/Motel Lock: Outside lever fixed. Entrance by key only. Push button in inside lever activates visual occupancy indicator, allowing only emergency master key to operate. Rotation of inside spanner button provides lockout feature by keeping indicator projected. Closet Lock: Deadlocking latch bolt by turn lever inside or lever outside except when outside lever is locked by key. Closet Latch: Latch bolt by turn lever inside or lever outside at all times.
- Code F109; Entry/Office Lock: Turn/Push button locking. Pushing and turning button on inside locks outside lever requiring use of a key until button is manually unlocked. Push button locking. Pushing button locks the outside lever until unlocked by key or by turning the inside lever. Inside lever always free.

Function Codes for Exit Devices: BHMA A156.3.

- Code 01; Exit Device: Exit only/no trim.
- Code 02; Exit Device: Entrance by pull/trim when actuating bar is locked down (Dogged-Down). Note-Fire Exit devices cannot be locked down.
- Code 03; Exit Device: Entrance by trim when latchbolt is retracted by key (pullside). Unit is locked when the key is removed.
- Code 04; Exit Device: Entrance by trim when latchbolt is retracted by key (pullside) or set in a retracted position by key.
- Code 05; Exit Device: Entrance by thumbpiece. Key (pullside) locks/unlocks thumbpiece.
- Code 06; Exit Device: Entrance by thumbpiece only when released by key (pullside). Unit is locked when the key is removed.
- Code 07; Exit Device: Entrance by thumbpiece. Inside key (on pushside/on active device case) locks/unlocks thumbpiece. Outside key (pullside) retracts latch.
- Code 08; Exit Device: Entrance by lever. Key (pullside) locks/unlocks lever.
- Code 09; Exit Device: Entrance by lever with key (pullside) only. Unit is locked when the key is removed.
- Code 10; Exit Device: Entrance by lever. Inside key (pushside) locks/unlocks lever. Outside key (pullside) only retracts latch.
- Code 11; Exit Device: Entrance by auxiliary control turnpiece. Key (pullside) locks/unlocks auxiliary control.
- Code 12; Exit Device: Entrance by auxiliary control turnpiece only when released by turning key (pullside). Unit is locked when the key is removed.



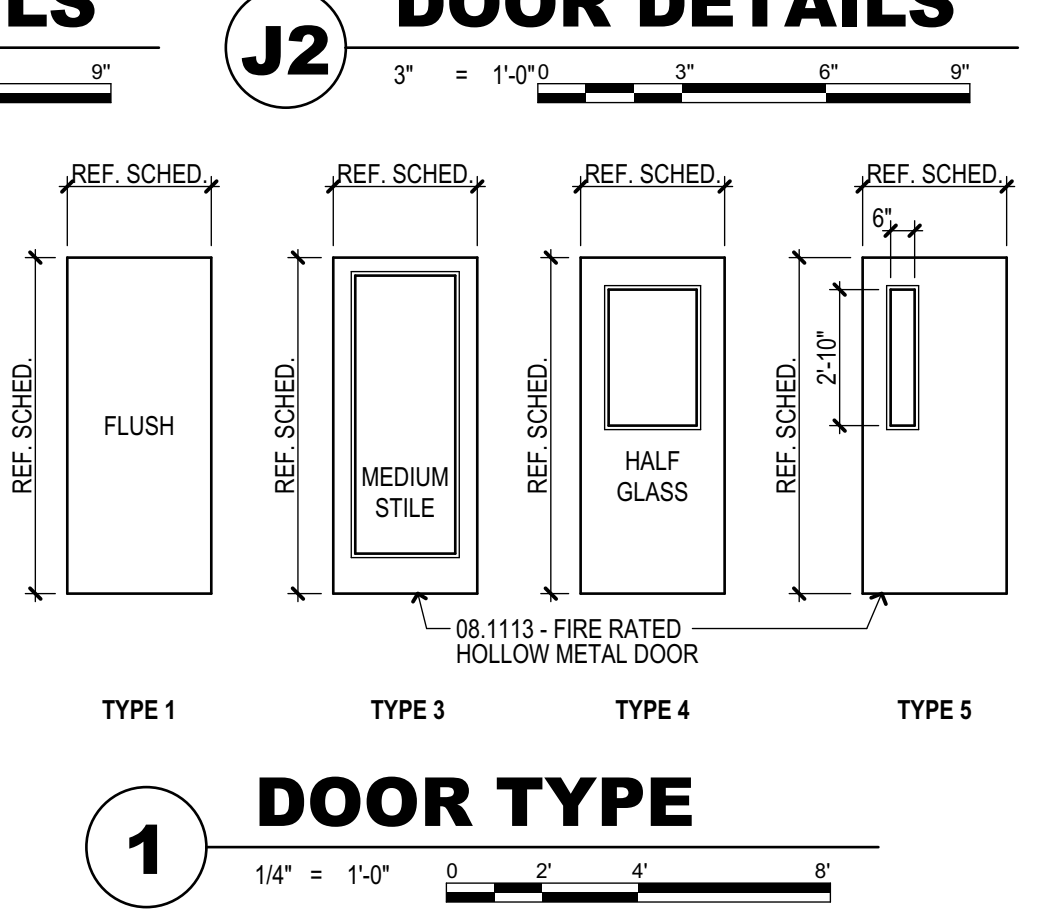
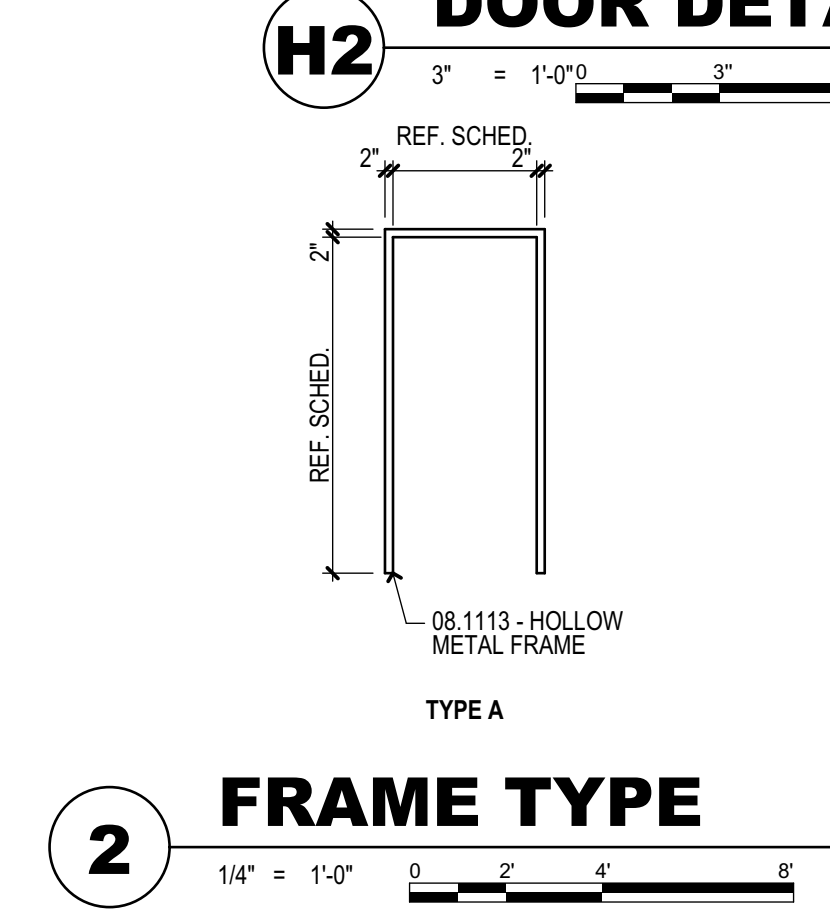
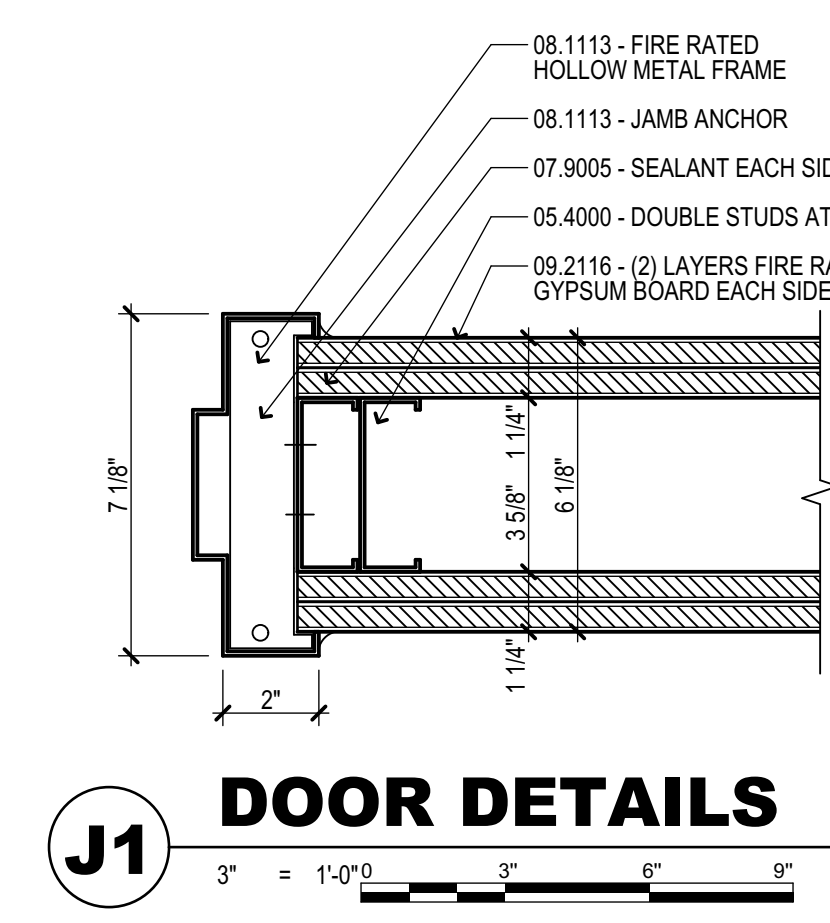
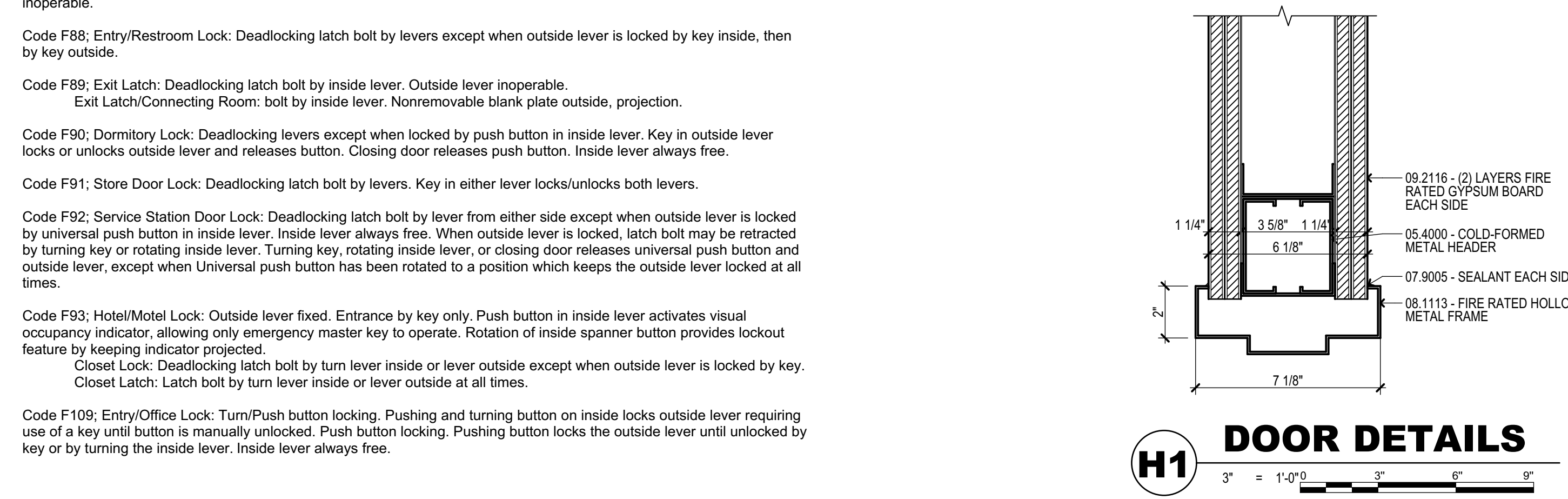
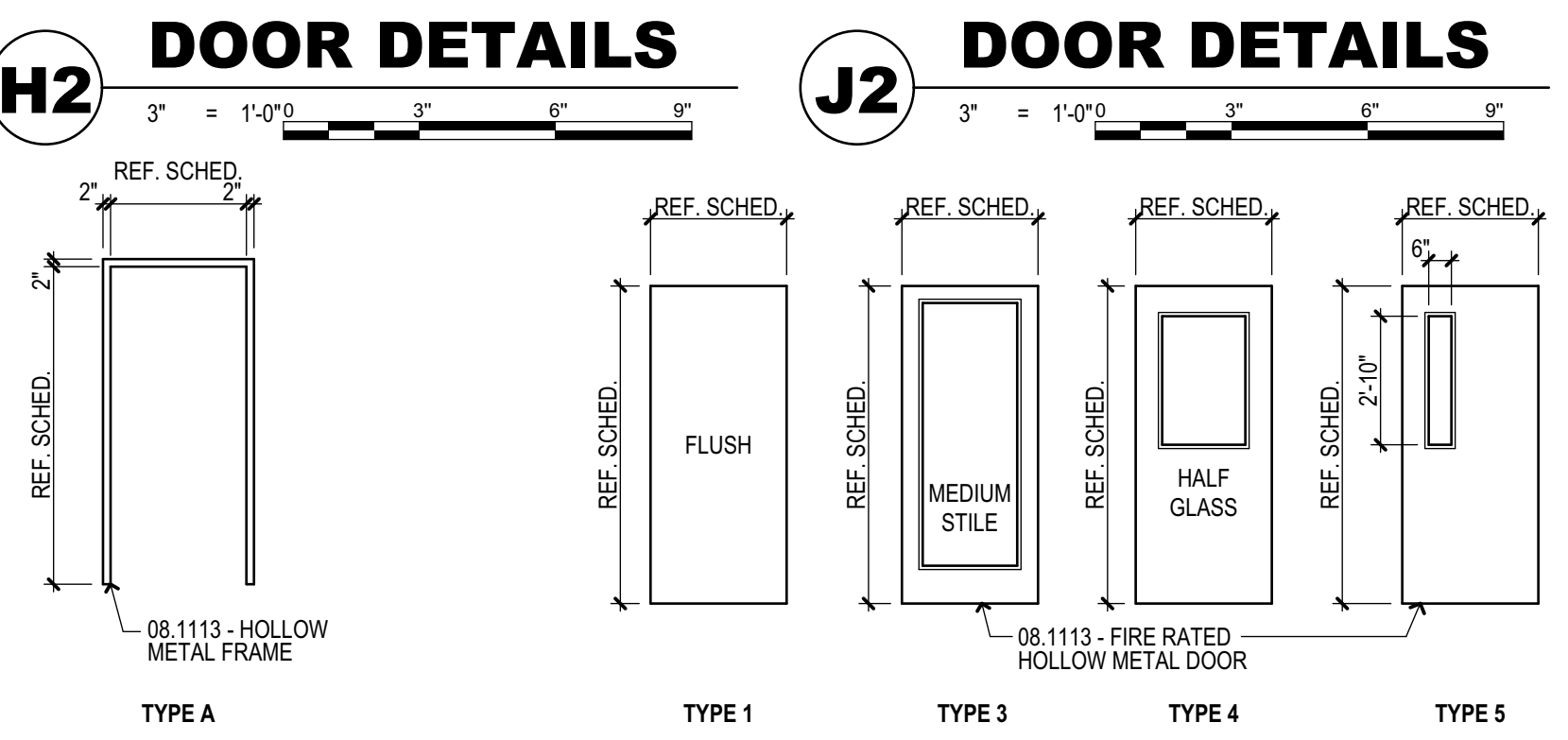
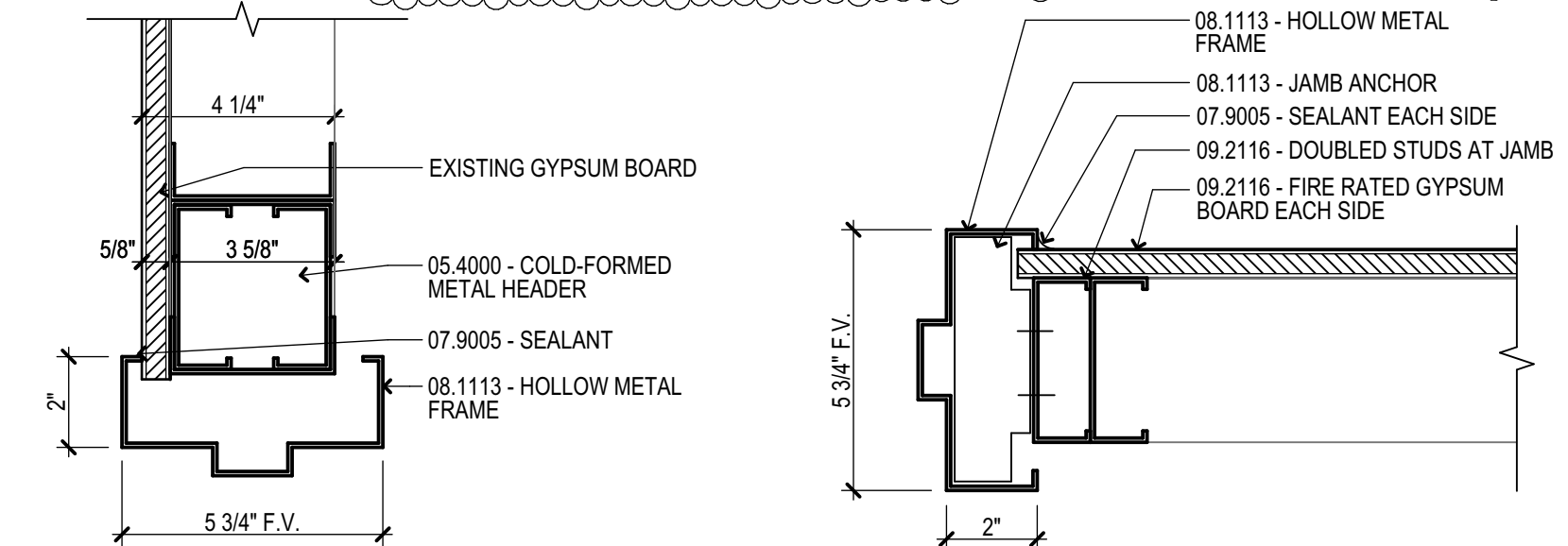
3 SIGNAGE SCHEDULE
3" = 1'-0"

DOOR AND FRAME SCHEDULE														
ID	DOOR			FRAME			DETAILS			FIRE RTG.	HARDWARE		SIGNAGE	REMARKS
	SIZE	MATL	TYPE	DEPTH	4" HD	TYPE	JAMB	HEAD	SILL		SET	KEY SIDE		
101	PR 3x7	HM	5	HM	0'-7 1/8"		A	J1	H1	-	90	1		
101C	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	6		
101D	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	3		
101E	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	2		
101F	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	6		
101G	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	2		
102A	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	6		
103	3x7	HM	4	HM	1'-0"		A	EXIST	EXIST	-	0	7.1		
104	PR 3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	1.1		
105	PR 3x7	HM	3	HM	0'-7 1/8"		A	J1	H1	-	90	1		
106A	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	8		
107A	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	8		
108	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	8		
109	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	8		
111A	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	8		
112A	3x7	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	8		
113	PR 3x7	HM	5	HM	0'-7 1/8"		A	J1	H1	-	90	1		
115	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	10		NEW DOOR IS FLIPPED
116	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	0	12		NEW DOOR IS FLIPPED
117A	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	9		
118	3x7	HM	1	HM	0'-9"		A	EXIST	EXIST	-	0	12		
119	PR 3x7	HM	5	HM	0'-7 1/8"		A	J1	H1	-	90	1		
121A	2x7	HM	1	HM	0'-5 1/4"		A	J2	H2	-	0	4.1		
E101A	PR 3x7	HM	5	HM	0'-9"		-	-	-	-	0	13		EXISTING HARDWARE TO REMAIN
E101B	PR 3x7	HM	1	HM	0'-9"		-	-	-	-	0	13		EXISTING HARDWARE TO REMAIN
E102B	3x7	WD	1	HM	0'-9"		-	-	-	-	0	4		
E102C	3x7	WD	1	HM	0'-9"		-	-	-	-	0	4		
E103A	3x7	HM	1	HM	0'-10"		-	-	-	-	0	13		EXISTING HARDWARE TO REMAIN
E103B	2x7	WD	1	HM	0'-9"		-	-	-	-	0	11		
E103C	3x7	WD	1	HM	0'-10"		-	-	-	-	0	7		
E103D	3x7	HM	1	HM	0'-10"		-	-	-	-	0	13		EXISTING HARDWARE TO REMAIN
E106B	3x7	WD	1	HM	0'-9"		-	-	-	-	0	5		
E107B	3x7	WD	1	HM	0'-9"		-	-	-	-	0	5		
E111B	3x7	WD	1	HM	0'-9"		-	-	-	-	0	5		
E112B	3x7	WD	1	HM	0'-9"		-	-	-	-	0	5		
E114	PR 3x7	HM	1	HM	0'-4 1/2"		-	-	-	-	0	13		EXISTING HARDWARE TO REMAIN
E117B	24x7	WD	1	HM	0'-9"		-	-	-	-	0	5		
E117C	24x7	WD	1	HM	0'-9"		-	-	-	-	0	5		
E121	PR 3x7	HM	1	HM	0'-4 1/2"		-	-	-	-	0	13		EXISTING HARDWARE TO REMAIN

DOOR MATERIAL LEGEND	
SYMBOL	MATERIAL DESCRIPTION
HM	HOLLOW METAL
WD	WOOD VENEER, SOLID CORE

FRAME MATERIAL LEGEND	
SYMBOL	MATERIAL DESCRIPTION
HM	HOLLOW METAL FRAME

- DOOR, FRAME, AND HARDWARE NOTES**
- TYPICAL DOOR FINISHES:
- ALL HOLLOW METAL FRAMES AND DOORS TO BE ALKYD PAINT, SEMI-GLOSS FINISH.
 - ALL INTERIOR ALUMINUM STOREFRONT AND FRAMES TO BE CLEAR ANODIZED FINISH EXCEPT WHERE NOTED.
- GLAZING:
- ALL GLAZING IN DOORS AND ADJACENT SIDELITES SHALL BE FULLY TEMPERED SAFETY GLASS.
- DOOR HARDWARE:
- FINAL DOOR HARDWARE SHALL BE SPECIFIED AND PROVIDED BY AN ARCHITECTURAL HARDWARE CONSULTANT (AHC).
 - COORDINATE W/ OWNER FOR KEYING REQUIREMENTS.
 - ALL HARDWARE SHALL COMPLY WITH IBC 1010.1. ALL HARDWARE SHALL BE ACCESSIBLE / ADA COMPLIANT UNLESS NOTED OTHERWISE.
 - UNLESS NOTED OTHERWISE, DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
 - MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED UNLESS ALLOWED BY IBC 1010.1.9.4.
 - THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION UNLESS ALLOWED PER IBC 1010.1.9.5.



Project Title
BA Academy Interior Renovation
412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools
Sheet Title
DOOR SCHEDULE AND DETAILS

Drawn _____ Project Number **2416**

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