

DPW PROJECT 19107

CSI: ENTRY ACCESS CONTROL
COLLEGE OF SOUTHERN IDAHO (CSI)
TWIN FALLS, IDAHO
Addendum #1

August 20, 2024

This Addendum applicable to work designed herein shall be understood to be and is an Addendum and as such shall be part of and included in the contract.

To all bidders for furnishing all labor and materials necessary for:

DPW PROJECT 19107

CSI: ENTRY ACCESS CONTROL
COLLEGE OF SOUTHERN IDAHO (CSI)
TWIN FALLS, IDAHO

Failure to acknowledge receipt of this Addendum on the bid proposal form may result in rejection of your bid.

DRAWINGS:

A100 added bid documents for Hepworth building.

A101 added bid documents for Hepworth building.

A400 added bid documents for Hepworth building.

SPECIFICATIONS:

Add Specification Section:

081314 – Standard Steel Doors.

087100 – Standard Steel Doors.

088000 – Glazing

099000 – Painting and Coating

END OF ADDENDUM NO. 1

SECTION 081314 - STANDARD STEEL DOORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes non-rated and thermally insulated steel doors.
- B. Related Sections:
 - 1. Section 087100 - Door Hardware.
 - 2. Section 099000 - Painting and Coating: Field painting of doors.

1.2 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
- B. ASTM International:
 - 1. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - 2. ASTM C1363 - Standard Test Method for the Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
- C. Hollow Metal Manufacturers Association:
 - 1. HMMA 810 - Hollow Metal Doors.
- D. Steel Door Institute:
 - 1. SDI 108 - Recommended Selection and Usage Guide for Standard Steel Doors.

1.3 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.
- B. Shop Drawings: Indicate door elevations, internal reinforcement, closure method, and cut-outs for glazing, and finishes.
- C. Product Data: Submit door configurations, location of cut-outs for hardware reinforcement.
- D. Manufacturer's Installation Instructions: Submit special installation instructions.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with ANSI A250.8.
- B. NFPA 252; with neutral pressure level at 40 inches maximum above sill at 5 minutes into test
Air Leakage: Maximum 3.0 cfm/sf of door opening with 0.10 inch water gage pressure differential.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Accept doors on site in manufacturer's packaging. Inspect for damage.
- C. Break seal on site to permit ventilation.

1.7 COORDINATION

- A. Section 013100 – Project Management and Coordination
- B. Coordinate Work with door opening construction, door frame, and door hardware installation.

PART 2 - PRODUCTS

2.1 STANDARD STEEL DOORS

A. Manufacturers:

- 1. Amweld Building Products, Inc.
- 2. Ceco Door Products.
- 3. Republic Builders Products.
- 4. Steelcraft.
- 5. Substitutions: Section 012500 – Substitution Procedures

B. Product Description:

- 1. Exterior Doors (Insulated): ANSI A250.8, SDI 108, 1-3/4 inch thick.
 - a. Level 3 - Extra heavy Duty, Model 1, full flush design.

2.2 COMPONENTS

- A. Face: Steel sheet in accordance with ANSI A250. SDI 108.
- B. End Closure: Channel, 0.04 inches thick, flush.
- C. Core:
 - 1. Exterior doors: polyurethane and vertical steel stiffeners.
- D. Thermal Insulated Door: Total insulation R-Value of 14, measured in accordance with ASTM C1363.

2.3 ACCESSORIES

- A. Astragals for Double Doors: Steel, T shaped, specifically for double doors.
- B. Primer: ANSI A250.10 rust inhibitive type.

2.4 FABRICATION

- A. Fabricate doors with hardware reinforcement welded in place.
- B. Attach astragal to one leaf of pairs of doors.

2.5 SHOP FINISHING

- A. Steel Sheet: Galvanized to ASTM A653/A653M A60.
- B. Primer: Baked.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 017300 - Execution: Verification of existing conditions before starting work.
- B. Verify opening sizes and tolerances are acceptable.

3.2 INSTALLATION

- A. Install doors in accordance with ANSI A250.8.
- B. Install door louvers, plumb and level.
- C. Coordinate installation of glass and glazing specified in Section 088000.
- D. Coordinate installation of doors with installation of hardware specified in Section 087100.
- E. Touch-up damaged shop finishes.

3.3 ERECTION TOLERANCES

- A. Section 014000 - Quality Requirements: Tolerances.
- B. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.4 ADJUSTING

- A. Section 017300 - Execution: Starting and adjusting.
- B. Adjust door for smooth and balanced door movement.

3.5 SCHEDULE

- A. Refer to Door Schedule.

END OF SECTION 081314

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes aluminum-framed storefronts including aluminum and glass doors and frames including hardware, glass.
- B. Related Sections:
 - 1. Section 087100 - Door Hardware: Mortised hardware reinforcement requirements affecting framing members.
 - 2. Section 088000 - Glazing.
 - 3. Section 099000 - Painting and Coating: Field painting of interior

1.2 REFERENCES

- A. Aluminum Association:
 - 1. AA ADM 1 - Aluminum Design Manual.
- B. American Architectural Manufacturers Association/Window & Door Manufacturers Association:
 - 1. AAMA/WDMA 101/I.S.2 - Specification for Windows, Doors and Unit Skylights.
 - 2. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
 - 3. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.
 - 4. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site.
 - 5. AAMA SFM-1 - Aluminum Store Front and Entrance Manual.
- C. ASTM International:
 - 1. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 - 2. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 3. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors under Specified Pressure Differences across the Specimen.
 - 4. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
 - 5. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- D. National Fenestration Rating Council Incorporated:
 - 1. NFRC 100 - Procedures for Determining Fenestration Product U-Factors.

1.3 SYSTEM DESCRIPTION

- A. Aluminum-framed storefront system includes tubular aluminum sections with supplementary internal support framing, aluminum and glass entrances, shop fabricated, factory finished, glass and glazing, related flashings, anchorage and attachment devices.
- B. System Assembly: Site assembled. Shop unitized assembly.

1.4 PERFORMANCE REQUIREMENTS

- A. System Design: Design and size components to withstand dead and live loads caused by positive and negative wind pressure acting normal to plane of wall, including building corners.
 - 1. As calculated in accordance with applicable code, as tested in accordance with ASTM E330.
- B. Deflection: Limit mullion deflection to 1/175 for spans less than 13'-6" and 1/240 plus 1/4 inch for spans over 13'-6" or flexure limit of glass of span; with full recovery of glazing materials.
- C. System Assembly: Accommodate without damage to components or deterioration of seals, movement within system, movement between system and peripheral construction, dynamic loading and release of loads, deflection of structural support framing.
- D. Air Infiltration: Limit air leakage through assembly to 0.06 cfm/min/sq ft of wall area, measured at reference differential pressure across assembly of 1.57 psf as measured in accordance with ASTM E283.
- E. Condensation Resistance Factor: CRF of not less than 45 when measured in accordance with AAMA 1503.
- F. Water Leakage: None, when measured in accordance with AAMA/WDMA 101/I.S.2 or ASTM E331 with test pressure difference of 20 percent of design pressure, with minimum differential of 2.86 lbf/sq ft and maximum of 12.00 lbf/sq ft.
- G. Thermal and Solar Heat Transmittance of Assembly (U Value and SHGC): Comply with ICC IEBC for climate zone in which project is located.
- H. Expansion / Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over 12 hour period without causing detrimental effect to system components and anchorage.
- I. System Internal Drainage: Drain water entering joints, condensation occurring in glazing channels, or migrating moisture occurring within system, to exterior by weep drainage network.

1.5 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Submittal procedures.
- B. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion, contraction joint location, and details.
- C. Product Data: Submit component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.
- D. Design Data: Indicate framing member structural and physical characteristics, calculations, dimensional limitations.
- E. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with AAMA SFM-1 and AAMA MCWM-1 - Metal Curtain Wall, Window, Store Front and Entrance - Guide Specifications Manual.

- B. Surface Burning Characteristics:
 - 1. Foam Insulation: Maximum 75/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
- C. Apply label from agency approved by authority having jurisdiction to identify each foam plastic insulation board.

1.7 QUALIFICATIONS

- A. Manufacturer and Installer: Company specializing in manufacturing aluminum glazing systems with minimum three years documented experience.
- B. Design structural support framing components under direct supervision of Professional Engineer experienced in design of this Work and licensed at Project location.

1.8 DELIVERY, STORAGE, AND PROTECTION

- A. Section 016000 - Product Requirements: Product storage and handling requirements.
- B. Handle Products of this section in accordance with AAMA MCWM-1 - Curtain Wall Manual #10.
- C. Protect finished aluminum surfaces with wrapping or strippable coating. Do not use adhesive papers or sprayed coatings which bond when exposed to sunlight or weather.

1.9 ENVIRONMENTAL REQUIREMENTS

- A. Section 016000 - Product Requirements.
- B. Do not install sealants or glazing materials when ambient temperature is less than 40 degrees F during and 48 hours after installation.

1.10 COORDINATION

- A. Section 013100 – Project Management and Coordination: Coordination and project conditions.
- B. Coordinate the Work with installation of air barrier, components or materials.

1.11 WARRANTY

- A. Section 017700 - Closeout Procedures: Product warranties and product bonds.
- B. Furnish five year manufacturer warranty for glazed units.

PART 2 - PRODUCTS

2.1 ALUMINUM-FRAMED STOREFRONTS

- A. Manufacturers:
 - 1. Trulite
 - 2. C.R. Laurence
 - 3. Kawneer Co., Inc.
 - 4. Vistawall Architectural Products.
 - 5. Substitutions: Section 012500 – Substitution Procedures

- B. Product Description:
 - 1. Aluminum Frame: 2 inches x 4- 1/2 inches thermally broken applied glazing stops; drainage holes; internal weep drainage system.
 - 2. Mullions: Profile of extruded aluminum with internal reinforcement of aluminum or shaped steel structural section.
 - 3. Doors: Aluminum framed glass doors; 1-3/4 inches thick, 5 inches wide top rail and vertical stiles, nominal 11 inch wide bottom rail; square glazing stops.

2.2 COMPONENTS

- A. Extruded Aluminum: ASTM B221; 6063 alloy, T5 temper typical, 6061 alloy, T6 temper for extruded structural members.
- B. Sheet Aluminum: ASTM B209, 5005 alloy, H15 or H34 temper.
- C. Steel Sections: ASTM A36/A36M; shaped to suit mullion sections, galvanized.
- D. Glass: Specified in Section 088000.
- E. Glazing Materials: Storefront manufacturer's standard types to suit application and to achieve weather, moisture, and air infiltration requirements.
- F. Flashings: Minimum 0.032 inch thick aluminum to match mullion sections where exposed.
- G. Sealant and Backing Materials:
 - 1. Sealant Used within System (Not Used for Glazing): Manufacturer's standard materials to achieve weather, moisture, and air infiltration requirements.
- H. Fasteners: Stainless or Hot-dip galvanized steel, standard with storefront manufacturer.

2.3 HARDWARE

- A. Lockset
 - 1. Schlage.
 - 2. No substitutions permitted
- B. Lock Cores 7 pin SFIC, F keyway
 - 1. Schlage.
 - 2. No substitutions permitted- All lock sets and cores shall be from same manufacturer.
- C. Hinges:
 - 1. McKinney (Continuous Hinge).
 - 2. Hager.
 - 3. Stanley
 - 4. Substitutions: Section 012500 – Substitution Procedures
- D. Cylinder Locks
 - 1. Schlage.
 - 2. No substitutions permitted.
- E. Exit Devices:
 - 1. Von Dupin 99.
 - 2. No substitutions permitted.
- F. Closers:
 - 1. LCN

2. No substitutions permitted.

G. Gasket:

1. Pemko.
2. Zero.
3. Substitutions: Section 012500 – Substitution Procedures

2.4 KEYING

- A. Door Locks: Provide blank cores to CSI for keying.
- B. Provide cylinder core and two keys.
- C. Owner shall coordinate with contractor to replace construction cores with new cores.

2.5 FABRICATION

- A. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- B. Accurately fit and secure joints and corners. Make joints flush, hairline, and weatherproof.
- C. Prepare components to receive anchor devices. Fabricate anchors.
- D. Arrange fasteners and attachments to conceal from view.
- E. Prepare components with internal reinforcement for door hardware.
- F. Reinforce framing members for imposed loads.

2.6 SHOP FINISHING

- A. Color Anodized Aluminum Surfaces: AAMA 611, AA-M12C22A44 non-specular as fabricated mechanical finish, medium matte chemical finish, and Architectural Class I 0.7 mils dark bronze anodized coating.
- B. Concealed Steel Items: Galvanized to ASTM A123/A123M.
- C. Apply bituminous paint to concealed aluminum and steel surfaces in contact with cementitious or dissimilar metals.
- D. Shop Primer for Steel Components: SSPC Paint 25 red oxide.
- E. Touch-Up Primer for Galvanized Steel Surfaces: SSPC Paint 20 zinc rich.
- F. Extent of Finish:
 1. Apply factory coating to surfaces exposed at completed assemblies.
 2. Apply finish to surfaces cut during fabrication so no natural aluminum is visible in completed assemblies, including joint edges.
 3. Apply touch-up materials recommended by coating manufacturer for field application to cut ends and minor damage to factory applied finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 017300 - Execution: Coordination and project conditions.

- B. Verify dimensions, tolerances, and method of attachment with other Work.
- C. Verify wall openings and adjoining air and vapor seal materials are ready to receive Work of this Section.

3.2 INSTALLATION

- A. Install wall system in accordance with AAMA MCWM-1 - Metal Curtain Wall, Window, Store Front and Entrance - Guide Specifications Manual.
- B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- C. Provide alignment attachments and shims to permanently fasten system to building structure.
- D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent Work.
- E. Provide thermal isolation where components penetrate or disrupt building insulation.
- F. Install sill flashings. Turn up ends and edges; seal to adjacent Work to form water tight dam.
- G. Coordinate attachment and seal of perimeter air and vapor retarder materials.
- H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- I. Install integral flashings and integral joint sealers.
- J. Set thresholds in bed of mastic and secure.
- K. Install hardware using templates provided. Refer to Section 087100 for installation requirements.
- L. Install glass in accordance with manufacturer's recommendations.
- M. Coordinate installation of perimeter sealants per manufacturer's recommendations

3.3 ERECTION TOLERANCES

- A. Section 014000 - Quality Requirements: Tolerances.
- B. Maximum Variation from Plumb: 0.06 inches every 3 ft non-cumulative or 1/16 inches per 10 ft, whichever is less.
- C. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.

3.4 FIELD QUALITY CONTROL

- A. Section 017300 - Execution: Field inspecting, testing, adjusting, and balancing.
- B. Inspection to monitor quality of installation and glazing.
- C. Test to AAMA 501.

3.5 ADJUSTING

- A. Section 017300 - Execution: Testing, adjusting and balancing.

- B. Adjust operating hardware for smooth operation.

3.6 CLEANING

- A. Section 017700 – Closeout Procedures: Final cleaning.
- B. Remove protective material from pre-finished aluminum surfaces.
- C. Wash down surfaces with solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.
- D. Remove excess sealant by method acceptable to sealant manufacturer.

3.7 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 017300 - Execution: Protection of installed construction.
- B. Protect finished Work from damage.

END OF SECTION 084113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes hardware for wood steel and aluminum doors
 - 1. Provide door gaskets, including weatherstripping and seals, and thresholds
- B. Related Sections:
 - 1. Section 081314 – Standard Steel Doors
 - 2. Section 084113 - Aluminum-Framed Entrances and Storefronts: Door hardware

1.2 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI A156.1 - Butts and Hinges
 - 2. ANSI A156.2 - Bored and Preassembled Locks and Latches
 - 3. ANSI A156.3 - Exit Devices
 - 4. ANSI A156.4 - Door Controls - Closures
 - 5. ANSI A156.5 - Auxiliary Locks and Associated Products
 - 6. ANSI A156.6 - Architectural Door Trim
 - 7. ANSI A156.7 - Template Hinge Dimensions
 - 8. ANSI A156.12 - Interconnected Locks and Latches
 - 9. ANSI A156.15 - Closer Holder Release Devices
 - 10. ANSI A156.16 - Auxiliary Hardware
 - 11. ANSI A156.18 - Materials and Finishes
 - 12. ANSI A156.23 - Electromagnetic Locks
- B. Builders Hardware Manufacturers Association:
 - 1. BHMA Directory of Certified Products
- C. National Fire Protection Association:
 - 1. NFPA 80 - Standard for Fire Doors, Fire Windows
 - 2. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies
- D. Underwriters Laboratories Inc.:
 - 1. UL 10B - Fire Tests of Door Assemblies
 - 2. UL 305 - Panic Hardware
 - 3. UL - Building Materials Directory
- E. Intertek Testing Services (Warnock Hersey Listed):
 - 1. WH - Certification Listings

1.3 PERFORMANCE REQUIREMENTS

- A. Fire Rated Openings: Provide door hardware listed by UL or Intertek Testing Services (Warnock Hersey Listed), or other testing laboratory approved by applicable authorities
 - 1. Hardware: Tested in accordance with NFPA 252

1.4 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Submittal procedures
- B. Shop Drawings:

1. Indicate locations and mounting heights of each type of hardware, schedules, catalog cuts
 2. Submit manufacturer's parts lists, and templates
- C. Manufacturer's Installation Instructions: Submit special procedures, and perimeter conditions requiring special attention

1.5 CLOSEOUT SUBMITTALS

- A. Section 017300 – Closeout Procedures
- B. Project Record Documents: Record actual locations of installed cylinders and their master key code
- C. Operation and Maintenance Data: Submit data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- D. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with the following requirements:
1. ANSI A156 series
 2. NFPA 80.
 3. UL 305.
- B. Furnish hardware marked and listed in BHMA Directory of Certified Products

1.7 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience
- B. Hardware Supplier: Company specializing in supplying commercial and institutional door hardware with minimum three years documented experience approved by primary hardware manufacturers.
1. Hardware Supplier Personnel: Employ Architectural Hardware Consultant (AHC) to assist in work of this section.
- C. Products Requiring Electrical Connection: Listed and classified by Underwriters' Laboratories, Inc., as suitable for purpose specified and indicated.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 - Product Requirements: Product storage and handling requirements
- B. Package hardware items individually with necessary fasteners, instructions, and installation templates, when necessary; label and identify each package with door opening code to match hardware schedule

1.9 COORDINATION

- A. Section 017300 - Execution: Coordination and project conditions
- B. Coordinate Work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.
1. Provide templates or actual hardware as required to ensure proper preparation of

doors and frames.

- C. Sequence installation to accommodate required utility connections.
- D. Coordinate Owner's keying requirements during course of Work

1.10 WARRANTY

- A. Section 017700 - Closeout Procedures: Product warranties and product bonds
- B. Furnish manufacturer standard warranty for locksets and door closers.

1.11 MAINTENANCE MATERIALS

- A. Section 017823 – Operation and Maintenance Data.
- B. Furnish special wrenches and tools applicable for each different and for each special hardware component.
- C. Furnish maintenance tools and accessories supplied by hardware component manufacturer.

PART 2 - PRODUCTS

2.1 DOOR HARDWARE

- A. Hinge Manufacturers:
 - 1. Stanley Commercial Hardware
 - 2. Ives
 - 3. Substitutions: Section 012500 – Substitution Procedures
- B. Lockset , Latch Set , and Cylinder Manufacturers:
 - 1. Schlage
 - 2. Substitutions: Section 012500 – Substitution Procedures
- C. Exit Device Manufacturers:
 - 1. Von Duprin
 - 2. Substitutions: Section 012500 – Substitution Procedures
- D. Closers Manufacturers:
 - 1. LCN: 4040 XP
 - 2. Substitutions: Section 012500 – Substitution Procedures
- E. Door Controls and Overhead Holders Manufacturers:
 - 1. LCN: 9540 Series
 - 2. Substitutions: Section 012500 – Substitution Procedures

2.2 COMPONENTS

- A. General Hardware Requirements:
 - 1. Where not specifically indicated, comply with applicable ANSI A156 standard for type of hardware required.
 - 2. Furnish each type of hardware with accessories as required for applications indicated and for complete, finished, operational doors.
 - a. Templates: Furnish templates or physical hardware items to door and frame manufacturers sufficiently in advance to avoid delay in Work
 - b. Reinforcing Units: Furnished by door and frame manufacturers;

- coordinated by hardware supplier or hardware manufacturer.
 - c. Fasteners: Furnish as recommended by hardware manufacturer and as required to secure hardware
 - 1) Finish: Match hardware item being fastened
 - d. Fire Ratings: Provide hardware with UL or Intertek Testing Services (Warnock Hersey Listed) listings for type of application involved.
- B. Hinges: ANSI A156.1, full mortise type, template type, ANSI A156.7, complying with following general requirements unless otherwise scheduled
 - 1. Widths: Sufficient to clear trim projection when door swings 180 degrees
 - 2. Number: Furnish minimum three hinges to 90 inches high, four hinges to 120 inches high for each door leaf
 - a. Fire Rated Doors To 86 inches High: Minimum three hinges
 - 3. Size and Weight: 4-1/2 inch heavy weight typical for 1-3/4 inch doors
 - a. Doors Over 40 inches Wide: Extra heavy weight ball or oilite bearing hinges
 - b. Doors 1-3/8 inch Thick: 3-1/2 inch size
 - c. Doors 2 inch Thick: 5 inch extra heavy weight ball or oilite bearing
 - d. Doors Over 48 inches Wide: 5 inch extra heavy weight ball or oilite bearing
 - 4. Pins: Furnish nonferrous hinges with non-removable pins (NRP) at exterior and locked out swinging doors, non-rising pins at interior doors
 - 5. Tips: Flat button tips with matching plug flush tips
- C. Locksets:
 - 1. Furnish locksets compatible with specified cylinders
 - 2. Typical 2-3/4 inch backset
 - 3. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames
- D. Latch Sets:
 - 1. Match locksets
 - 2. Typical 2-3/4 inch backset
 - 3. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts Exit Devices: ANSI A156.3, Grade 1 rim type, with cross bar, unless otherwise indicated
 - 4. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames, with dust-proof floor strikes
 - 5. Types: Suitable for doors requiring exit devices
- E. Cylinders: ANSI A156.5, Grade 1, 6 pin type removable cylinders
 - 1. Keying: Keyed as directed by Owner
 - 2. Include construction keying
 - 3. Keys: Nickel silver
 - a. Stamp keys with "DO NOT DUPLICATE"
 - 4. Supply keys in the following minimum quantities:
 - a. 5 master keys
- F. Door Controls and Overhead Holders: Furnish with accessories as required for complete operational installation.
 - 1. Low Energy Power Door Operators: ANSI A156.19 power mechanism which opens and closes door upon receipt of signal.
 - a. Automatic Operator: LCN 9540 Series
 - b. Wall Plate actuators: Interior and exterior flush mount LCN Flush Mount Kit

8310-3856WF

- c. Sequencer: LCN
 - d. Control Box: LCN 9500 Series
 - e. Finish: Dark Bronze Anodized
- G. Closers: ANSI A156.4 modern type with cover, surface mounted closers; full rack and pinion type with steel spring and non-freezing hydraulic fluid; closers required for fire rated doors unless otherwise indicated
- 1. Adjustability: Furnish controls for regulating closing, latching, speeds, and back checking
 - 2. Arms: Type to suit individual condition; parallel-arm closers at reverse bevel doors and where doors swing full 180 degrees
 - 3. Location: Mount closers on inside of exterior doors, room side of interior doors typical; mount on pull side of other doors
 - 4. Operating Pressure: Maximum operating pressure as follows
 - a. Interior Doors: Maximum 5 pounds
 - b. Exterior Doors: Maximum 8.5 pound
 - c. Fire Rated Doors: As required for fire rating, maximum 15 pounds
- H. Exit Devices: ANSI A156.3, Grade 1 rim type, with cross bar, unless otherwise indicated
- 1. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames
 - a. Types: Suitable for doors requiring exit devices.
- I. Push/Pulls, Manual Bolts, Protection Plates, Gaskets, Thresholds, and Trim:
- 1. Furnish as indicated in Schedule, with accessories as required for complete operational door installations
 - a. Push/Pulls: ANSI A156.6; push plates minimum 0.050 inch thick
 - 1) Furnish push-pull plate type pulls with bolts to secure from opposite door face; furnish with minimum 0.050 inch pull plates unless otherwise indicated
 - b. Manual Bolts: ANSI A156.16 Grade 1 top and bottom flush bolts, with dust-proof floor strike, unless otherwise indicated
 - c. Kickplates Mop Plate: ANSI A156.6, metal; height indicated in Schedule by 1 inch less than door width; minimum 0.050 inch thick stainless steel
 - d. Weatherstripping: Furnish continuous weatherstripping at top and sides of exterior doors
 - e. Fire Rated Gaskets: Furnish continuous fire rated gaskets at top and sides of fire rated doors
 - f. Thresholds: Maximum 1/2 inch height
 - g. Wall Stops: ANSI A156.1, Grade 1, 2-1/2 inch wall stop concave pad wall stop with no visible screws
 - h. Floor Stops: ANSI A156.1 Grade 1 dome type; furnish with accessories as required for applications indicated

2.3 ACCESSORIES

- A. Lock Trim: Furnish levers with rose escutcheon plate as indicated in Schedule
 - 1. Do not permit through bolts on solid wood core doors
- B. Through Bolts: Do not permit through bolts and grommet nuts on door faces in occupied areas unless no alternative is possible

1. Do not use through bolts on solid wood core doors

2.4 FINISHING

- A. Finishes: ANSI A156.18; furnish following finishes except where otherwise indicated in Schedule
 1. Finishes: As indicated on the Drawing
 2. Other Items: Furnish manufacturer's standard finishes to match similar hardware types on same door, and maintain acceptable finish considering anticipated use and BHMA category of finish

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 017300 - Execution: Coordination and project conditions
- B. Verify doors and frames are ready to receive door hardware and dimensions are as indicated on drawings.

3.2 INSTALLATION

- A. Coordinate mounting heights with door and frame manufacturers.
 1. Use templates provided by hardware item manufacturer.
- B. Mounting Heights From Finished Floor to Center Line of Hardware Item: Comply with manufacturer recommendations and applicable codes where not otherwise indicated
 1. Locksets: 38 inch
 2. Push/Pulls: 42 inch
 3. Dead Locks: 48 inch
 4. Push Pad Type Exit Devices: 42 inch
 5. Cross Bar Type Exit Devices: 38 inch
 6. Top Hinge: Jamb manufacturer's standard, but not greater than 10 inches from head of frame to center line of hinge
 7. Bottom Hinge: Jamb manufacturer's standard, but not greater than 12-1/2 inches from floor to center line of hinge
 8. Intermediate Hinges: Equally spaced between top and bottom hinges and from each other.
 9. Hinge Mortise on Door Leaf: 1/4 inch. to 5/16 inch from stop side of door

3.3 ADJUSTING

- A. Section 017300 - Execution: Testing, adjusting, and balancing.
- B. Adjust hardware for smooth operation.

3.4 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 017300 - Execution: Protection installed construction
- B. Do not permit adjacent work to damage hardware or hardware finish.

3.5 SCHEDULES

- A. Refer to Door and Frame Schedule on the Drawings

DPW PROJECT NO. 19107
CSI: Entry Access Controls, Phase II
College of Southern Idaho (CSI)
Twin Falls, Idaho

July 2023

END OF SECTION 087100

SECTION 088000 - GLAZING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Glass glazing for doors.
- B. Related Sections:
 - 1. Section 081314 – Standard Steel Doors
 - 2. Section 084113 - Aluminum Framed Entrances and Storefronts

1.2 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI Z97.1 - Safety Glazing Materials Used in Buildings Safety.
- B. ASTM International:
 - 1. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
 - 2. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
 - 3. ASTM C1036 - Standard Specification for Flat Glass.
 - 4. ASTM C1193 - Standard Guide for Use of Joint Sealants.
 - 5. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 - 6. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 - 7. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
 - 8. ASTM E1886 - Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- C. Consumer Products Safety Commission:
 - 1. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing.
- D. Glass Association of North America:
 - 1. GANA - Sealant Manual.
 - 2. GANA - Glazing Manual.
 - 3. GANA - Laminated Glass Design Guide.
- E. National Fenestration Rating Council Incorporated:
 - 1. NFRC 100 - Procedures for Determining Fenestration Product U-Factors.
 - 2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
- F. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems.

1.3 PERFORMANCE REQUIREMENTS

- A. Provide glass and glazing materials for continuity of building enclosure vapor retarder and air barrier:

1. To utilize inner pane of multiple pane sealed units for continuity of air barrier and vapor retarder seal.
 2. To maintain continuous air barrier and vapor retarder throughout glazed assembly from glass pane to heel bead of glazing sealant. Structural Design: Design in accordance with applicable code for most critical combination of wind, snow, seismic, and dead loads.
- B. Wind Loads: Design and size glass to withstand positive and negative wind loads acting normal to plane of wall, including increased loads at building corners.
- C. Seismic Loads: Design and size components to withstand seismic loads and sway displacement as calculated in accordance with applicable code.
- D. Exterior Glass Deflection: Maximum of 1/175 of glass edge length or 3/4 inch, whichever is less with full recovery of glazing materials.
- E. Interior Glass Deflection: Maximum differential deflection for two adjacent unsupported edges when 50 plf forces is applied to one panel at any point up to 42 inches above finished floor less than thickness of glass.
- F. Thermal and Solar Optical Performance: Measured or calculated in accordance with the following:
1. Maximum U-Values: Comply with ICC IEEC for climate zone in which project is located. Measure in accordance with NFRC 100.
 2. Maximum SHGC: Comply with ICC IEEC for climate zone in which project is located. Measure in accordance with NFRC 200.
 3. Solar Optical Properties: NFRC 300.

1.4 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Submittal procedures.
- B. Product Data:
1. Glass: Provide structural, physical, and thermal and solar optical performance characteristics, size limitations, and special handling or installation requirements.
 2. Glazing Sealants, Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors were exposed.
- C. Samples:
1. Glass: Submit two samples 6 x 6 inch in size, illustrating each glass units, coloration and design.
- D. Manufacturer's Certificate: Certify sealed insulating glass, meets or exceeds specified requirements.
- E. Installer's Certificate: Certify glass furnished without identification label is installed in accordance with Construction Documents and applicable code.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA Glazing Manual, GANA Sealant Manual, and GANA Laminated Glass Design Guide for glazing installation methods.

1.6 QUALIFICATIONS

- A. Installer: Company specializing in performing Work of this section with minimum three years' experience approved by manufacturer.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Section 016000 - Product Requirements.
- B. Do not install glazing when ambient temperature is less than 50 degrees F.
- C. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.8 WARRANTY

- A. Section 017700 - Closeout Procedures: Product warranties and product bonds.
- B. Furnish ten year warranty to include coverage for sealed glass units from seal failure, interpane dusting or misting, and replacement of same.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Glass
 - 1. ACH Glass Operations.
 - 2. AFG Industries, Inc.
 - 3. Guardian Industries Corp.
 - 4. PPG Industries.
 - 5. Pilkington North America, Inc.
 - 6. Substitutions: Section 012500 – Substitution Procedures

2.2 FLOAT GLASS MATERIALS

- A. Annealed Glass: ASTM C1036, Type 1 transparent flat, Quality Q3, float glass.
 - 1. Furnish annealed glass except where heat strengthened or tempered glass is required to meet specified performance requirements.
- B. Tempered Glass: ASTM C1048, Type 1 transparent flat, Quality Q3, Kind FT fully tempered, Condition an uncoated, float glass with horizontal tempering.
 - 1. Furnish tempered glass conforming to CPSC 16 CFR 1201 Category II at locations where safety glass is required by applicable code.

2.3 FLOAT GLASS PRODUCTS

- A. Clear Glass: Annealed and Tempered float glass as specified; Class 1 clear.
 - 1. Clear annealed glass.
 - 2. Clear tempered glass.
 - 3. Minimum Thickness: 1/4 inch.
 - 4. Tempered where required by code
- B. Low E Glass: Annealed and Tempered float glass as specified; Class 1 clear.
 - 1. Clear Low E annealed glass.
 - 2. Clear Low E tempered glass.
 - 3. Minimum Thickness: 1/4 inch.
 - 4. Coating: ASTM C1376; pyrolytic.

2.4 INSULATING GLASS PRODUCTS

- A. Insulating Glass: ASTM E2190; with glass elastomeric glass to mastic silicone sealant edge seal; place reflective film within unit; purge interpane space with dry hermetic air.
 - 1. Total Unit Thickness: 1 inch.
 - 2. Insulating Glass Unit Edge Seal Construction: Aluminum, or Stainless steel, thermally broken, bent and soldered mitered and spigot corners.
 - 3. Insulating Glass Unit Edge Seal Material: clear color.
- B. Double Pane Insulating Vision Glass:
 - 1. Outer Pane: Clear Low E annealed glass.
 - 2. Inner Pane: annealed glass.
 - 3. U-Factor Winter Nighttime: .35 maximum.
 - 4. U-Factor Summer: .35 maximum.
 - 5. Solar Energy Transmittance: 52 percent minimum.
 - 6. Visible Light Transmittance: 74 percent minimum.
 - 7. Solar Heat Gain Coefficient: .62 maximum.
 - 8. Tempered where required by code

2.5 GLAZING SEALANTS

- A. Elastomeric Glazing Sealants: Materials compatible with adjacent materials including glass, insulating glass seals, and glazing channels.
 - 1. Glazing Compounds: As recommended by manufacturer.

2.6 GLAZING ACCESSORIES

- A. Setting Blocks: As recommended by manufacturer.
- B. Spacer Shims: As recommended by manufacturer.
- C. Glazing Clips: Manufacturer's standard type.

2.7 COMPONENTS

- A. Flat Glass: Minimum 1/4 inch unless otherwise indicated.
 - 1. Clear Float Glass: ASTM C1036, Type 1 transparent flat, Class 1 clear, Quality q3 glazing select.
- B. Safety Glass: Conform to CPSC 10 CFR 1201 Category II, total thickness 1/4 inch unless otherwise indicated.
 - 1. Clear Tempered Glass: ASTM C1048, Condition A, uncoated, Type 1 transparent flat, Class 1 clear, Quality q3 glazing select; with horizontal tempering.
 - 2. Clear Laminated Glass: ASTM C1172, clear heat strengthened glass with plastic interlayer.
 - a. Plastic interlayer: Polyvinyl butyral, minimum 0.040 inch thick.
 - b. 1/4" laminated glass consists of two 1/8" angled panes bonded with 0/040 polyvinyl butyral inter layer.
- C. Insulated Glass Units: Total thickness 1 inch.
 - 1. Double Pane Insulated Glass Units: ADTM E774 Class A and E773; with glass elastomer, glass to mastic, or silicone sealant edge seal; purge interpane space with dry hermetic air.
 - a. Type: Sungate 100 (3) manufactured by PPG Industries.
 - b. Outer Pane: Glass Type: 1/4" clear float glass.

- c. Inner Pane: 1/4 clear laminated with Low E (sputtered) coating on third surface
 - 1) Plastic Interlayer: Polyvinyl butyral, minimum 0.040 inch thick.
 - 2) 1/4" laminated glass consists of two 1/8" angled panes bonded with 0.040 inch polyvinyl butyral inter layer.
- d. Frosted Inner Pane 1/4 Frosted Laminated Glass: where called out on drawings
 - 1) Plastic Interlayer: Polyvinyl butyral, minimum 0.040 inch thick.
 - 2) 1/4" laminated glass consists of two 1/8" angled panes bonded with 0.040 inch polyvinyl butyral inter layer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 017300 - Execution: Coordination and project conditions.
- B. Verify openings for glazing are correctly sized and within acceptable tolerance.
- C. Verify surfaces of glazing channels or recesses are clean, free of obstructions impeding moisture movement; weeps are clear, and ready to receive glazing.

3.2 PREPARATION

- A. Clean contact surfaces with solvent and wipe dry.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant.

3.3 INSTALLATION

- A. Perform installation in accordance with GANA Glazing Manual.
 - 1. Glazing Sealants: Comply with ASTM C119 Interior Dry Method (Tape and Tape) Installation:
 - 2. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch above sight line.
 - 3. Place setting blocks at 1/4 points with edge block no more than 6 inches from corners.
 - 4. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.
 - 5. Place glazing tape on free perimeter of glazing in same manner described above.
 - 6. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
 - 7. Knife trim protruding tap.

3.4 CLEANING

- A. Section 017700 – Closeout Procedures: Final cleaning.
- B. Remove glazing materials from finish surfaces.
- C. Remove labels after Work is complete.
- D. Clean glass and adjacent surfaces.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 017300 - Execution: Protection of installed construction.
- B. After installation, mark pane with an 'X' by using removable plastic tape or paste. Do not mark heat absorbing or reflective glass units.

END OF SECTION 088000

SECTION 099000 - PAINTING AND COATING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and field application of paints, stains, varnishes, and other coatings.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications.
 - 2. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials.
- B. Painting and Decorating Contractors of America:
 - 1. PDCA - Architectural Painting Specification Manual.
- C. SSPC: The Society for Protective Coatings:
 - 1. SSPC - Steel Structures Painting Manual.

1.3 DEFINITIONS

- A. Conform to ASTM D16 for interpretation of terms used in this section.

1.4 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data on finishing products and special coating.
- C. Samples:
 - 1. Submit paper chip samples illustrating range of colors available for each surface finishing product scheduled.

1.5 CLOSEOUT SUBMITTALS

- A. Section 017700 - Closeout procedures.
- B. Operation and Maintenance Data: Submit data on cleaning, touch-up, and repair of painted and coated surfaces.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- B. Applicator: Company specializing in performing work of this section with minimum five years documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 016000 - Product Requirements: Product storage and handling requirements.
- B. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- C. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- D. Paint Materials: Store at minimum ambient temperature of 45 degrees F and maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Section 016000 - Product Requirements.
- B. Do not apply materials when surface and ambient temperatures are outside temperature ranges required by paint product manufacturer.
- C. Do not apply exterior coatings during rain or snow when relative humidity is outside humidity ranges, or moisture content of surfaces exceed those required by paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- E. Minimum Application Temperature for Varnish and Finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.
- F. Provide lighting level of 80 ft candle measured mid-height at substrate surface.

1.9 SEQUENCING

- A. Sequence application to the following:
 - 1. Do not apply finish coats until paintable sealant is applied.
 - 2. Back prime wood trim before installation of trim.

1.10 WARRANTY

- A. Section 017700 - Closeout Procedures: Product warranties and product bonds.
- B. Furnish five year manufacturer warranty for paints and coatings.

1.11 EXTRA MATERIALS

- A. Section 017823 – Operation and Maintenance Data: Spare parts and maintenance products.

PART 2 - PRODUCTS

2.1 PAINTS AND COATINGS

- A. Manufacturers: Paint, Transparent Finishes, Stain, Primer Sealers and Block Filler.
 - 1. Benjamin Moore Paint Co.
 - 2. Columbia Paint Co.
 - 3. Devoe Paint Co.

4. Fuller-O'Brien.
5. PPG Architectural Finishes.
6. Sherwin Williams Paint Co
7. Substitutions: Section 012500 – Substitution Procedures

2.2 COMPONENTS

- A. Coatings: Ready mixed, except field catalyzed coatings. Prepare coatings:
 1. To soft paste consistency, capable of being readily and uniformly dispersed to homogeneous coating.
 2. For good flow and brushing properties.
 3. Capable of drying or curing free of streaks or sags.
- B. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve finishes specified; commercial quality.
 1. Interior Clear Wood Finishes: Maximum volatile organic compound content in accordance with SCAQMD Rule 1113.
- C. Patching Materials: Latex filler.
- D. Fastener Head Cover Materials: Latex filler.
- E. Exterior Masonry Sealer : Waterborne, U/V Protected Waterproofing Sealer
 1. Manufacturer:
 - a. Sherwin Williams Paint Co: Duron Dura Crete
 - b. Substitutions: Section 012500 – Substitution Procedures
- F. Interior Masonry Sealer : acrylic sealer

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 017300 - Execution: Coordination and project conditions.
- B. Verify surfaces and substrate conditions are ready to receive Work as instructed by product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report conditions capable of affecting proper application.
- D. Test shop applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Plaster and Gypsum Wallboard: 12 percent.
 2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
 3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
 4. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.
 5. Concrete Floors: 8 percent.

3.2 PREPARATION

- A. Surface Appurtenances: Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.

- B. Surfaces: Correct defects and clean surfaces capable of affecting work of this section. Remove or repair existing coatings exhibiting surface defects.
- C. Marks: Seal with shellac those which may bleed through surface finishes.
- D. Impervious Surfaces: Remove mildew by scrubbing with solution of tetra-sodium or tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- E. Aluminum Surfaces Scheduled for Paint Finish: Remove surface contamination by steam or high pressure water. Remove oxidation with acid etch and solvent washing. Apply etching primer immediately following cleaning.
- F. Asphalt, Creosote, or Bituminous Surfaces Scheduled for Paint Finish: Remove foreign particles to permit adhesion of finishing materials. Apply compatible sealer or primer.
- G. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.
- H. Concrete Floors: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.
- I. Copper Surfaces Scheduled for Paint Finish: Remove contamination by steam, high pressure water, or solvent washing. Apply vinyl etch primer immediately following cleaning.
- J. Copper Surfaces Scheduled for Natural Oxidized Finish: Remove contamination by applying oxidizing solution of copper acetate and ammonium chloride in acetic acid. Rub on repeatedly for required effect. Once attained, rinse surfaces with clear water and allow to dry.
- K. Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair.
- L. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- M. Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
- N. Plaster Surfaces: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- O. Uncoated Steel and Iron Surfaces: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Spot prime paint after repairs.
- P. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Prime metal items including shop primed items.
- Q. Interior Wood Items Scheduled to Receive Paint Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.

- R. Interior Wood Items Scheduled to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats.
- S. Exterior Wood Scheduled to Receive Paint Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior paintable caulking compound after prime coat has been applied.
- T. Exterior Wood Scheduled to Receive Transparent Finish: Remove dust, grit, and foreign matter; seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes with tinted exterior caulking compound after sealer has been applied.
- U. Glue-Laminated Beams: Prior to finishing, wash surfaces with solvent, remove grease and dirt.
- V. Wood Doors Scheduled for Painting: Seal wood door top and bottom edge surfaces with clear sealer.
- W. Metal Doors Scheduled for Painting: Prime metal door top and bottom edge surfaces.

3.3 EXISTING WORK

- A. Extend existing paint and coatings installations using materials and methods compatible with existing installations and as specified.

3.4 APPLICATION

- A. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- B. Apply each coat to uniform appearance. Apply each coat of paint slightly darker than preceding coat unless specified otherwise.
- C. Sand wood and metal surfaces lightly between coats to achieve required finish.
- D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- E. Where clear finishes are required, tint fillers to match wood. Work fillers into grain before set. Wipe excess from surface.
- F. Prime concealed surfaces of interior and exterior woodwork with primer paint.
- G. Prime concealed surfaces of interior wood surfaces scheduled to receive stain or varnish finish with gloss varnish reduced 25 percent with thinner.
- H. Finishing Mechanical And Electrical Equipment:
 - 1. Refer to Division 23 for schedule of color coding and identification banding of equipment, duct work, piping, and conduit.
 - 2. Paint shop primed equipment.
 - 3. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
 - 4. Prime and paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, and except where items are shop finished.
 - 5. Paint exposed conduit and electrical equipment occurring in finished areas.

6. Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.
7. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.5 FIELD QUALITY CONTROL

- A. Section 017300 Execution: Field inspecting, testing, adjusting, and balancing.

3.6 CLEANING

- A. Section 017700 - Closeout Procedures: Final cleaning.
- B. Collect waste material which may constitute fire hazard, place in closed metal containers, and remove daily from site.

3.7 SCHEDULE - SHOP PRIMED ITEMS FOR SITE FINISHING

- A. Metal Fabrications (Section 05 50 00).

3.8 SCHEDULE - EXTERIOR SURFACES

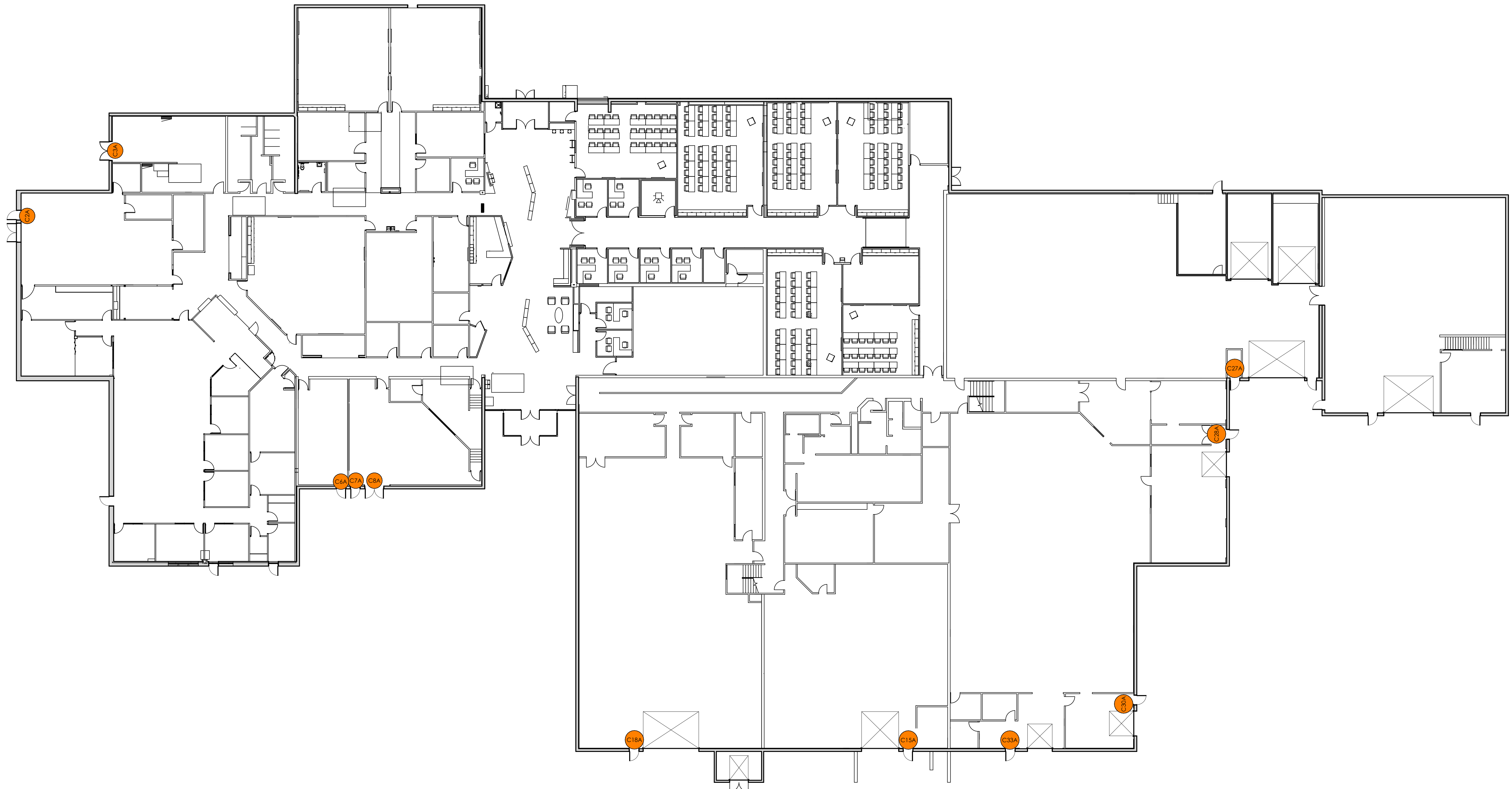
- A. Wood - Painted (Opaque):
 1. One coat of alkyd primer sealer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- B. Wood - Transparent:
 1. Two coats of stain
- C. Pavement Markings:
 1. Two coats of solvent based acrylic copolymer paint, yellow.
- D. Steel - Unprimed:
 1. One coat of alkyd primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- E. Steel - Shop Primed:
 1. Touch-up with zinc chromate primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- F. Steel - Galvanized:
 1. One coat galvanize primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- G. Aluminum - Mill Finish:
 1. One coat etching primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- H. Concrete, Concrete Block:
 1. Two coats of clear sealer.

3.9 SCHEDULE - INTERIOR SURFACES

- A. Wood - Painted:
 1. One coat of alkyd prime sealer.

2. Two coats of alkyd enamel, gloss or semi-gloss.
- B. Wood - Transparent:
 1. Filler coat (for open grained wood only).
 2. One coat of stain.
 3. Two coats of varnish, gloss.
- C. Concrete, Concrete Block:
 1. Two coats of clear sealer.
- D. Steel - Unprimed:
 1. One coat of alkyd primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- E. Steel - Primed:
 1. Touch-up with alkyd primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- F. Steel - Galvanized:
 1. One coat galvanize primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- G. Aluminum - Mill Finish:
 1. One coat etching primer.
 2. Two coats of alkyd enamel, gloss or semi-gloss.
- H. Gypsum Board:
 1. One coat of latex primer sealer.
 2. Two coats latex acrylic enamel, gloss or semi-gloss.

END OF SECTION 099000



1
A100 **CANYON BUILDING FLOOR PLAN**

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

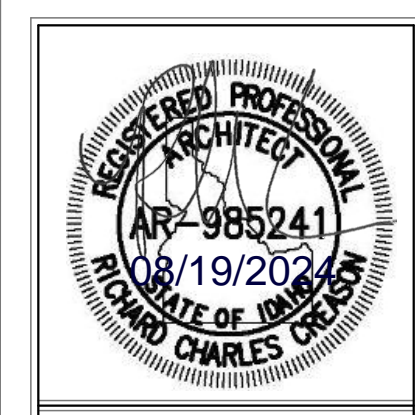
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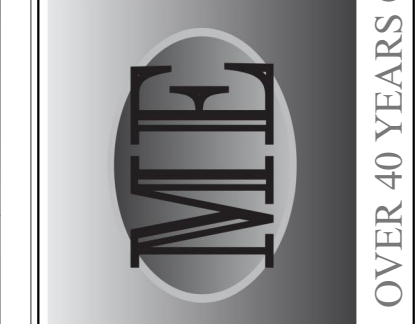
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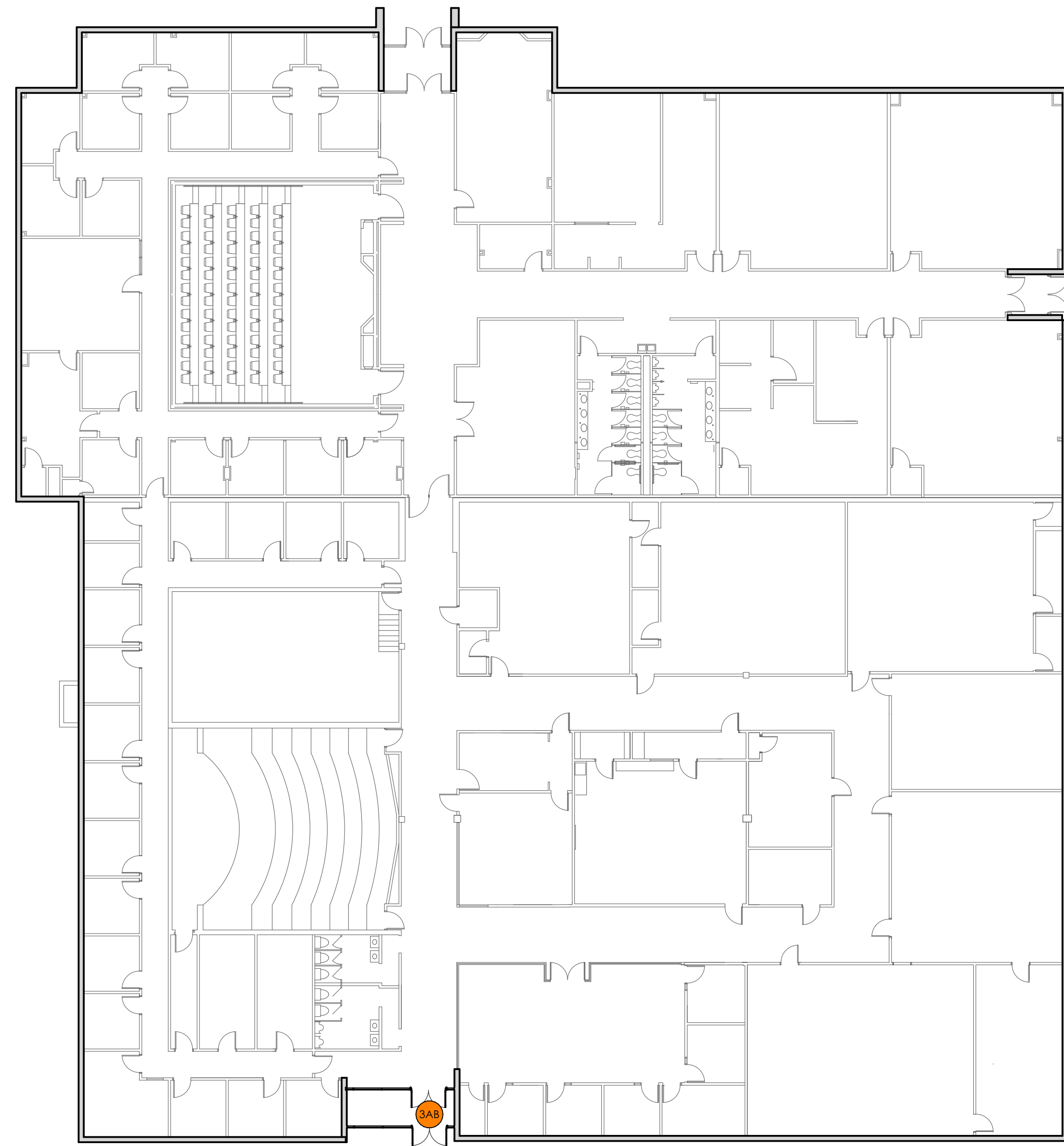


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SCALE	
SHEET	

A100



1
A101 HEPWORTH FLOOR PLAN
SCALE: 1/16" = 1'-0"

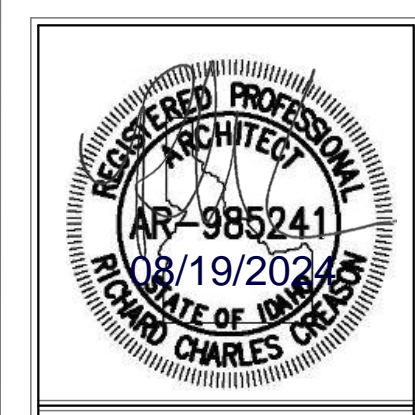
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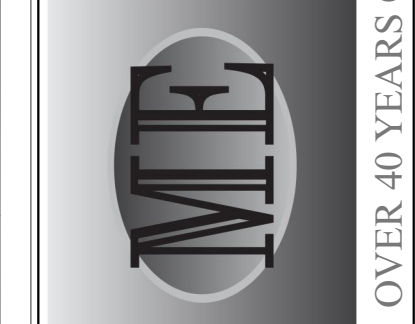
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DATE	FEB 2024
SCALE	
SHEET	

A101

CANYON BUILDING DOOR SCHEDULE

DOOR #	DOOR TYPE	WIDTH	HEIGHT	DOOR		FRAME		THROAT	HINGES	LOCKS	HARDWARE			WEATHER STRIPPING	ACCESS CONTROL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	PUSH/PULL	GLAZING	FIRE RATING	NOTES	DETAIL	DOOR #
				MATERIAL	FINISH	MATERIAL	FINISH				CLOSER	KICKPLATES	STOPS											
MAIN FLOOR																								
C2A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C2A
C3A	C	6'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 2; 3; 4; 5; 6; 7; 8	---	C3A
C6A	D	3'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C6A
C7A	D	3'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C7A
C8A	C	6'-0"	7'-8"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 2; 3; 4; 5; 6; 7; 8	---	C8A
C15A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C15A
C18A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C18A
C27A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C27A
C28A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C28A
C30A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C30A
C33A	B	3'-0"	7'-0"	HM	H.M. PAINTED	E.T.R.	E.T.R. PAINTED	---	H1	---	C1	K1	---	WS1	AC-1	DS1	T1	---	---	---	---	1; 6; 7; 8	---	C33A

DOOR LEGEND

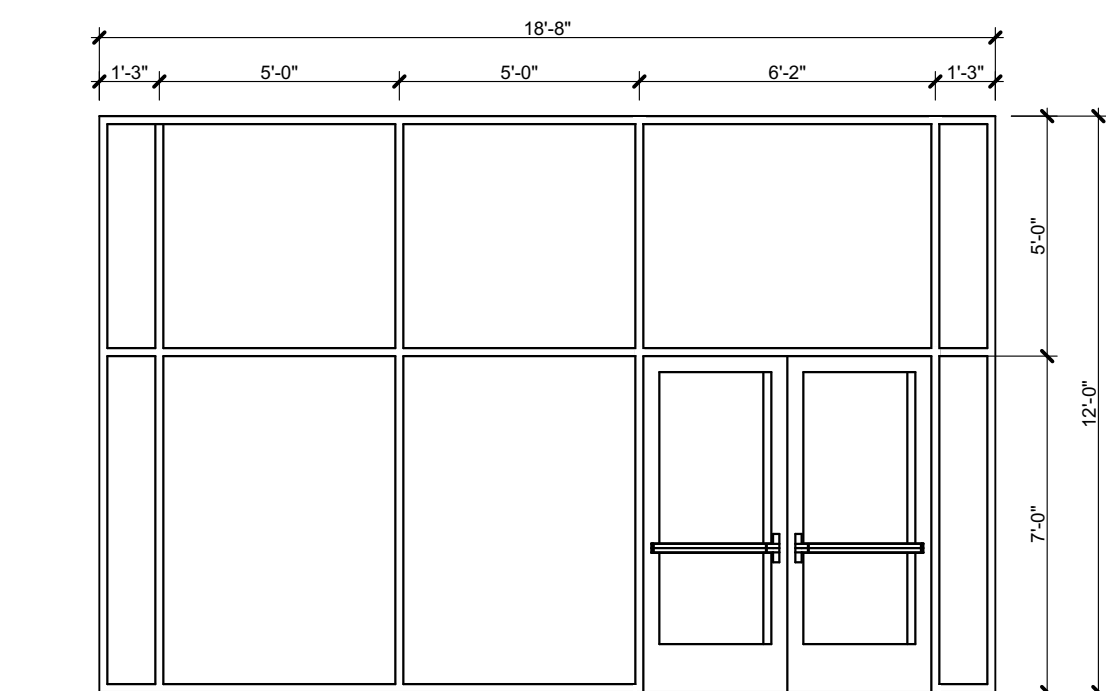
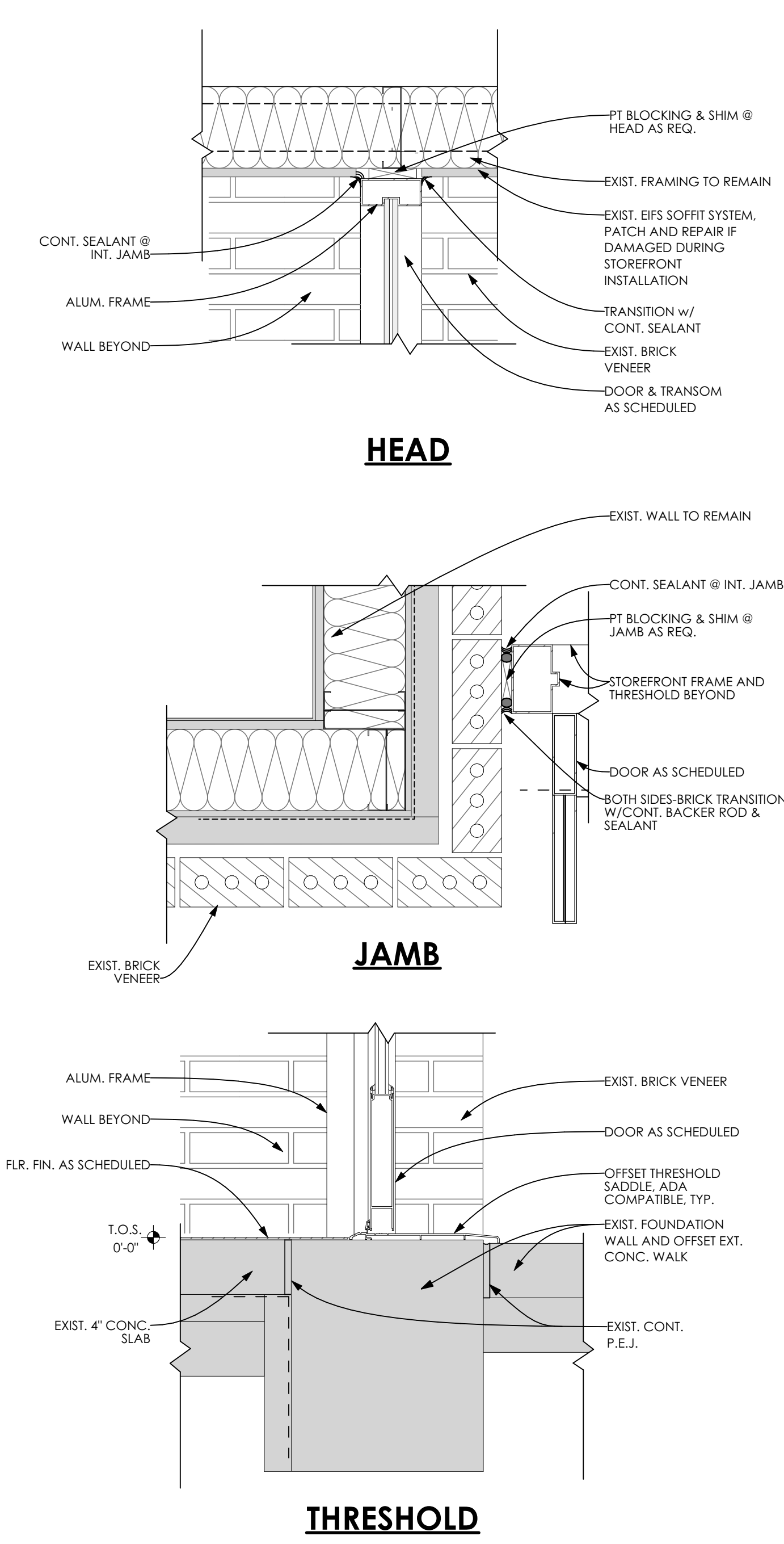
HINGES	
H1	GEARED CONTINUOUS HINGE XY SERIES US28 CLEAR ALUMINUM ANODIZED
H2	179 FULL MORITSE NRP
I	IVES STANLEY
EXIT DEVICE	
ED1	99N-OP-626 RIM DEVICE, LEVER HANDLE
ED2	99EO-626 RIM DEVICE, EXIT ONLY
V	VON DUPRIN
ACCESS CONTROL	
AC-1	AD-400-CY W/ EXTERIOR MASTER KEY CORE 29-018
AC-2	AD-200-CY (REFER ALSO TO NOTE #9)
S	SCHLAGE
CLOSER	
C1	4040XP-3049CNS
C2	4640
LCN	LCN
KICKPLATES	
K1	36" J100 DW-2"
Q	QUALITY
STOPS	
S1	W302 PT US26D
Q	QUALITY
WEATHER STRIPPING	
WS1	303CPK
PEM	PEMCO
SMOKE SEALS	
SS1	303CPK
PEM	PEMCO
DOOR SWEEP	
DS1	18042CP
PEM	PEMCO
THRESHOLD	
T1	PEMCO 172A
GLAZING	
G-1	1/4" PLATE GLASS, TEMPERED
G-2	1" INSULATED GLASS, TEMPERED

HEPWORTH BUILDING DOOR SCHEDULE

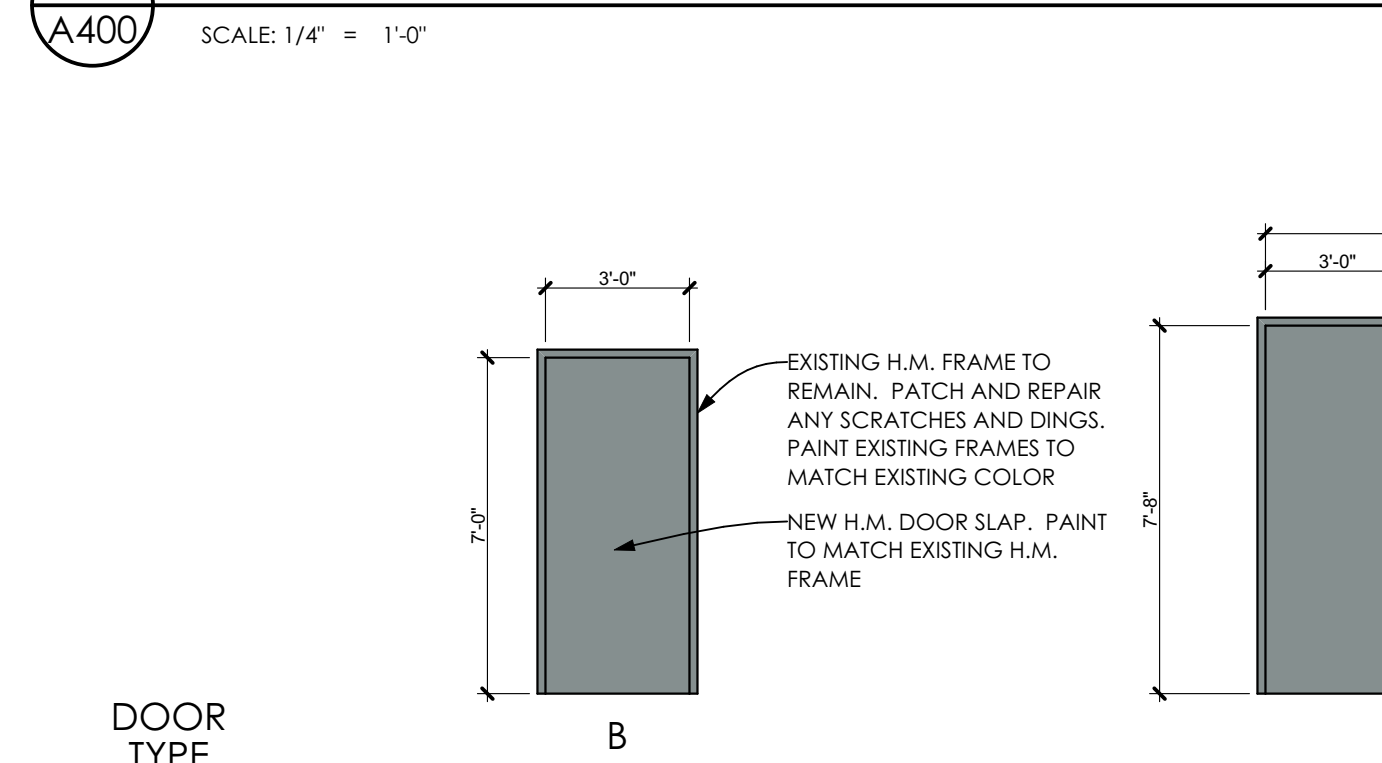
DOOR #	DOOR TYPE	WIDTH	HEIGHT	DOOR		FRAME		THROAT	HINGES	LOCKS	HARDWARE			WEATHER STRIPPING	ACCESS CONTROL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	PUSH/PULL	GLAZING	FIRE RATING	NOTES	DETAIL	DOOR #
				MATERIAL	FINISH	MATERIAL	FINISH				CLOSER	KICKPLATES	STOPS											
MAIN FLOOR																								
I3AB	A	6'-0"	7'-0"	ALUM	FAC. FIN.	ALUM.	E.T.R. PAINTED	4-1/2"	H2	---	C1; C2	K1	S1	WS1	AC-2	DS1	T1	ED2	---	G2	---	1; 4; 8; 9; 10	1/A400	3AB

NOTES

- HARDWARE BY DOOR SUPPLIER
- PROVIDE TOP & BOTTOM FLUSH BOLTS ON INACTIVE LEAF. PROVIDE RADIUS STRIKE ON INACTIVE LEAF.
- PROVIDE ACCESS CONTROL DEVICE ON ACTIVE LEAF ONLY. PROVIDE CLOSER ON ACTIVE LEAF ONLY. ALL OTHER HARDWARE CALLED OUT TO BE PROVIDED IN PAIRS
- PROVIDE HARDWARE IN PAIRS ON DOUBLE DOORS UNLESS OTHERWISE NOTED
- PROVIDE VERTICAL ASTRAGAL ON INACTIVE LEAF
- FIELD VERIFY EXISTING DOOR SLAB SIZE TO BE REPLACED PRIOR TO ORDERING NEW DOOR SLAB
- EXISTING HOLLOW METAL DOOR FRAME TO REMAIN AND BE REUSED. INSTALL NEW HOLLOW METAL DOOR SLAB WITH CONTINUOUS HINGE
- COORDINATE W/ ELECTRICAL DRAWINGS FOR ALL OTHER DOORS TO RECEIVE DOOR HARDWARE AND ACCESS CONTROL DEVICES
- PROVIDE LOCABLE REMOVABLE MULLION VON DUPRIN 5654 w/ CYLINDER & (2) 299 STRIKES
 - CRASH BARS SHALL RECEIVE:
 - COMMAND ACCESS: REQUEST TO EXIT - VDREXKIT-ED
 - COMMAND ACCESS: MOTORIZED LATCH RETRACTION - MLR1-VD
 - SURFACE CLOSER: LCN 4040XP-3049CNS
 - ADA DOOR OPERATOR: LCN 4640
 - 1 ELECTRIC POWER TRANSFER ON EACH LEAF: VON DUPRIN EPT-10
 - PULLS ON EACH LEAF FROM STOREFRONT MANUFACTURER
- PROVIDE ADA DOOR OPERATOR: LCN 4640 ON SINGLE LEAF OF INTERIOR VESTIBULE STOREFRONT DOOR. COORDINATE OPERATION OF OPERATOR W/ EXTERIOR VESTIBULE OPERATOR



2 HEPWORTH DOOR TYPES



3 CANYON BUILDING DOOR TYPES



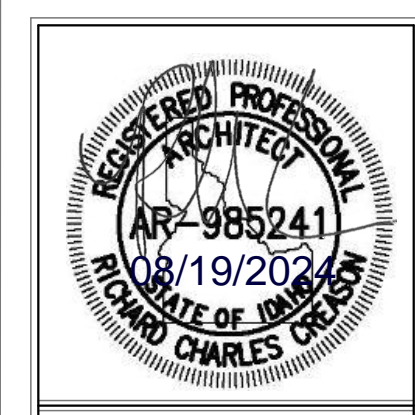
1 STOREFRONT DETAIL



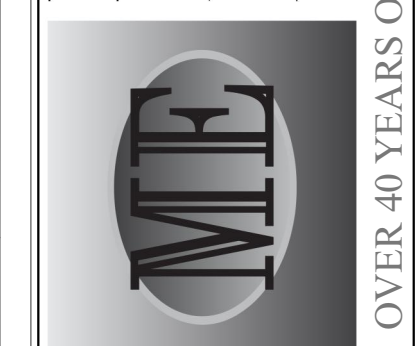
Myers ■ Anderson

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DATE	BY	REVISIONS



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DPW PROJECT 19107
 CSI: ENTRY ACCESS CONTROLS, PHASE II
 COLLEGE OF SOUTHERN IDAHO
 TWIN FALLS, ID
 OVER 40 YEARS OF EXCELLENCE

PROJECT	
DRAWN	
CHECKED	
DATE	FEB 2024
SCALE	
SHEET	

A400