ADDENDUM NO. 3

RE: Pulaski County Parks and Recreation

Facility Renovation Pulaski County Indoor

Sportsplex and Expo Center Architect's Project No. 2024148 ZMM ARCHITECTS ENGINEERS

TO: Prospective Bidders

FROM: ZMM, Inc. Architects and Engineers

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.

PART 1 - INFORMATION FOR BIDDERS

- A. All storefront glass at VEST 124 to be replaced with new storefront of the same size and configuration. Section 088000 Glazing has been updated as attached to include insulated safety glazing.
- B. Glazing type tags have been altered for clarity. Glazing type information has been added to storefront elevations.
- C. All doors formerly scheduled as FRP have been changed to hollow metal
- D. Added Door 143 to EQUIPMENT STORAGE 143.
- E. The Golf Institute has been slightly modified to accommodate previously omitted existing structure.
- F. Doors 135C and 135B are now 30" wide.
- G. Storefront elevations for the VIP Lounge and the Cardio rooms have been slightly altered so as to vertically align mullions with each other.
- H. Additional notes added to Demo sheets for clarity.
- I. Complete re-issue of A511 Door Elevations and Schedules. We are also issuing Door Hardware spec 087100 and the Door Index.

Blacksburg

1116 South Main Street Blacksburg, Virginia 24060 (540) 552-2151 Charleston

222 Lee Street Charleston, West Virginia 25302 (304) 342-0159 Marietta

149 Acme Street, Suite A Marietta, Ohio 45750 (740) 371-9001 Martinsburg

5550 Winchester Avenue Berkeley Business Park, Suite 5 Martinsburg, West Virginia 25405 (304) 342-0159

- J. Obscuring film to be added to the lower section of all 2nd floor clerestory glazing in the main lobby. Film to be 3M Fasara or equivalent.
- K. Electric hand dryers added to restrooms, see A411 and A412.
- L. Suspended batting cage nets have been relocated to turf area. Quantity of batting cages has been reduced from 3 to 2. No changes to allowance.
- M. Note 3 on the Building Elevation sheets has been altered to include covering visible interior faces of existing metal panel.
- N. Room 210 is now scheduled for LVT floors.
- O. Privacy Film added to existing glazing in Room 135A.
- P. Dining 110 Finish Changes: existing ceiling, grid, bulkheads, and lights to remain in Dining 110. Repair ceiling as necessary at scheduled wall demolition. Floors are to be demolished and prepared for new floor, but no new floor finish will be scheduled.
- Q. The client's standard ACT across their other facilities is USG Radar Basic R2120. The finish schedule has been updated to make this product the basis of design. USG was previously listed as an accepted manufacturer in the specification.
- R. A142 previously had conflicting ceiling work notes in the admin area. These have been removed, and all relevant notes can be found on A141.
- S. Rooms 122, 125B, and 142 are not to have new floor finishes. Room IT 005B is not to have a new floor finish.
- T. Add LVT floor to KITCHEN 002.
- U. New doors and partition configurations near Door 013D in the admin area.
- V. New locker area configuration for both second floor restrooms on A412. Locker quantities remain unchanged.
- W. Columbia Lockers are an approved HDPE locker.
- X. Cardio Room 133 has been reconfigured for greater equipment flexibility. All power will now be run around the perimeter of the room, reducing demolition required of the existing slab. See electrical drawings.

PART 2 - CHANGES TO SPECIFICATIONS

A. Advertisement for Bids:

1. Paragraph 1, sentence 2. Change to read as follows:

"Sealed bids will be received at the Pulaski County Administration Building, 143 Third Street NW, Suite 1, Pulaski, Virginia 24301 until 2:00p.m., local time, on **May 22, 2025** at which time and place the bids will be publicly opened and read."

B. Instruction to Bidders

1. Part G, first sentence. Change to read as follows:

"Bid security shall be made payable to Pulaski County Parks and Recreation in the amount of 5% of the total bid sum."

2. Delete Part T.

PART 3 - CHANGES TO DRAWINGS

- A. Electrical Drawings EP108, EP109, EP114, E503, E504, and E505 have been re-issued as attached to this Addendum.
- B. Architectural Drawings A111, A112, A113, A114, A131, A132, A133, A137, A142, A213, A218, A241, A311, A312, A411, A412, A413, A511, and A521 have been re-issued as attached to this Addendum.

END OF ADDENDUM

A	G . 007100 D II 1	7.1
Attachments:	Section 087100 – Door Hardware	
	Door Index	2 pages
	Section 088000 – Glazing	10 pages
	EP108	1 page
	EP109	1 page
	EP114	1 page
	E503	1 page
	E504	1 page
	E505	1 page
	A111	1 page
	A112	1 page
	A113	1 page
	A114	1 page
	A131	1 page
	A132	
	A133	
	A137	1 0
	A142	

Blacksburg 1116 South Main Street Blacksburg, Virginia 24060 (540) 552-2151 Charleston
222 Lee Street
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A213	1 page
A218	1 page
A241	1 page
A311	
A312	
A411	
A412	
A413	1 page
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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 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes:

- 1. Mechanical and electrified door hardware for:
 - a. Swinging doors.
 - b. Sliding doors.
 - c. Gates.
- 2. Electronic access control system components, including:
 - a. Biometric access control reader.
 - b. Electronic access control devices.
- 3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.
- 4. Lead-lining door hardware items required for radiation protection at door openings.
- 5. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:
 - 1. Windows
 - 2. Cabinets (casework), including locks in cabinets
 - 3. Signage
 - 4. Toilet accessories
 - 5. Overhead doors

C. Related Sections:

- 1. Division 01 Section "Alternates" for alternates affecting this section.
- 2. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.

- 3. Division 09 sections for touchup, finishing or refinishing of existing openings modified by this section.
- 4. Division 13 Section "Radiation Protection" for requirements for lead-lining for door hardware at openings indicated to receive radiation protection.
- 5. Division 26 sections for connections to electrical power system and for low-voltage wiring.
- 6. Division 28 sections for coordination with other components of electronic access control system.

1.3 REFERENCES

A. UL - Underwriters Laboratories

- 1. UL 10B Fire Test of Door Assemblies
- 2. UL 10C Positive Pressure Test of Fire Door Assemblies
- 3. UL 1784 Air Leakage Tests of Door Assemblies
- 4. UL 305 Panic Hardware

B. DHI - Door and Hardware Institute

- 1. Sequence and Format for the Hardware Schedule
- 2. Recommended Locations for Builders Hardware
- 3. Key Systems and Nomenclature

C. ANSI - American National Standards Institute

1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties

1.4 SUBMITTALS

A. General:

- 1. Submit in accordance with Conditions of Contract and Division 01 requirements.
- 2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
- 3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.

B. Action Submittals:

- 1. Product Data: Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
- 2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:

- 1) Details of interface of electrified door hardware and building safety and security systems.
- 2) Schematic diagram of systems that interface with electrified door hardware.
- 3) Point-to-point wiring.
- 4) Risers.
- 3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
- 4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:
 - a. Door Index; include door number, heading number, and Architects hardware set number.
 - b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
 - c. Type, style, function, size, and finish of each hardware item.
 - d. Name and manufacturer of each item.
 - e. Fastenings and other pertinent information.
 - f. Location of each hardware set cross-referenced to indications on Drawings.
 - g. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - h. Mounting locations for hardware.
 - i. Door and frame sizes and materials.
 - j. Name and phone number for local manufacturer's representative for each product.
 - k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components). Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.
 - Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.

5. Key Schedule:

- a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
- b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
- c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.

- d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
- e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
 - 1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
- f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
- 6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.

C. Informational Submittals:

- 1. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
- 2. Product Certificates for electrified door hardware, signed by manufacturer:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

3. Certificates of Compliance:

- a. Certificates of compliance for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
- b. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
- c. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.
- 4. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by qualified testing agency, for door hardware on doors located in accessible routes.
- 5. Warranty: Special warranty specified in this Section.

D. Fire Door Assembly Inspection and Testing:

1. Submit a written report of the results of functional testing and inspection for fire door assemblies, in compliance with NFPA 80-2007 requirements. Written report shall be provided to the Owner to be made available to the Authority Having Jurisdiction (AHJ). Report shall include the door number for each fire door assembly, door location, door and frame material, fire rating, and summary of deficiencies.

E. Closeout Submittals:

- 1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Name, address, and phone number of local representative for each manufacturer.

- d. Parts list for each product.
- e. Final approved hardware schedule, edited to reflect conditions as-installed.
- f. Final keying schedule
- g. Copies of floor plans with keying nomenclature
- h. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
- i. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

1.5 QUALITY ASSURANCE

- A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.
 - 1. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)
 - a. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.
 - 2. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.
- B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
 - 1. Warehousing Facilities: In Project's vicinity.
 - 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
 - 3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
 - 4. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.
 - a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.
- C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.
- D. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:

- 1. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC).
- 2. Can provide installation and technical data to Architect and other related subcontractors.
- 3. Can inspect and verify components are in working order upon completion of installation.
- 4. Capable of producing wiring diagrams.
- 5. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.
- E. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
 - 1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.
 - 2. Manufacturers that perform electrical modifications and that are listed by testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- F. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
- G. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 - 1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
- H. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- I. Means of Egress Doors: Latches do not require more than 15 lbf (67 N) to release latch. Locks do not require use of key, tool, or special knowledge for operation.
- J. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in "REFERENCES" article, herein.
 - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist and that operate with force of not more than 5 lbf (22.2 N).
 - 2. Maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf (22.2 N) applied perpendicular to door.
 - b. Sliding or Folding Doors: 5 lbf (22.2 N) applied parallel to door at latch.
 - c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - 3. Bevel raised thresholds with slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.
 - 4. Adjust door closer sweep periods so that, from open position of 70 degrees, door will take at least 3 seconds to move to 3 inches (75 mm) from latch, measured to leading edge of door.

- K. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01.
 - 1. Attendees: Owner, Contractor, Architect, Installer and Supplier's Architectural Hardware Consultant.
 - 2. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - b. Preliminary key system schematic diagram.
 - c. Requirements for key control system.
 - d. Requirements for access control.
 - e. Address for delivery of keys.

L. Coordination Conferences:

- Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
 - a. Attendees: Door hardware supplier, door hardware installer, Contractor.
 - b. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.
- 2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.
 - a. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner, Architect and Contractor.
 - b. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

1.6 .DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
 - 1. Deliver each article of hardware in manufacturer's original packaging.

C. Project Conditions:

- 1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- 2. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

D. Protection and Damage:

- 1. Promptly replace products damaged during shipping.
- 2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
- 3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- E. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
- F. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.7 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.
- F. Direct shipments not permitted, unless approved by Contractor.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Years from date of Substantial Completion, for durations indicated.
 - a. Closers:
 - 1) Mechanical: 10 years. Electrified: 2 years.
 - b. Automatic Operators: 1 year.
 - c. Exit Devices:
 - 1) Mechanical: 3 years.
 - 2) Electrified: 1 year.

- d. Locksets:
 - 1) Mechanical: 3 years.
 - 2) Electrified: 1 year.
- e. Continuous Hinges: Lifetime warranty
- 2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

1.9 MAINTENANCE

A. Maintenance Tools:

1. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and particular project suitability to insure continuity of existing and future performance and maintenance standards. After investigating available product offerings Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- E. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

A. Fasteners

- 1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
- 2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish
- 3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
- 4. Install hardware with fasteners provided by hardware manufacturer.
- B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.
 - 1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
 - 2. Use materials which match materials of adjacent modified areas.
 - 3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.
- C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
 - 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.3 HINGES

- A. Provide five-knuckle, ball bearing hinges.
 - 1. Manufacturers and Products:
 - a. Scheduled Manufacturer and Product: Ives 5BB series
 - b. Acceptable Manufacturers and Products: Hager BB series, McKinney TA/T4A series, Stanley FBB Series

- 1. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
- 2. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
- 3. 2 inches or thicker doors:

- a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
- b. Interior: Heavy weight, steel, 5 inches (127 mm) high
- 4. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
- 5. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
- 6. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
- 7. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inch (44 mm) thick doors, and 5 inches (127 mm) at 2 inches (51 mm) or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
- 8. Doors 36 inches (914 mm) wide or less furnish hinges 4-1/2 inches (114 mm) high; doors greater than 36 inches (914 mm) wide furnish hinges 5 inches (127 mm) high, heavy weight or standard weight as specified.
- 9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
- 10. Provide mortar guard for each electrified hinge specified, unless specified in hollow metal frame specification.
- 11. Provide spring hinges where specified. Provide two spring hinges and one bearing hinge per door leaf for doors 90 inches (2286 mm) or less in height. Provide one additional bearing hinge for each 30 inches (762 mm) of additional door height.

2.4 CONTINUOUS HINGES

A. Aluminum Geared

- 1. Manufacturers:
 - a. Scheduled Manufacturer: Ives.
 - b. Acceptable Manufacturers: Markar, Stanley.

- a. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.25, Grade 2.
- b. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum, with 0.25-inch (6 mm) diameter Teflon coated stainless steel hinge pin.
- c. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
- d. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.

- e. On fire-rated doors, provide aluminum geared continuous hinges that are classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
- f. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware.
- g. Install hinges with fasteners supplied by manufacturer.
- h. Provide hinges with symmetrical hole pattern.

2.5 ELECTRIC POWER TRANSFER

A. Manufacturers:

a. Scheduled Manufacturer: Von Duprinb. Acceptable Manufacturers: Falcon, ABH

- B. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires sufficient to accommodate electric function of specified hardware.
- C. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.6 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer: Ives

2. Acceptable Manufacturers: Burns, Rockwood

B. Requirements:

 Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.7 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: Schlage ND Series
- 2. Acceptable Manufacturers and Products: Best 93K Series, Corbin Russwin CL3100 Series.

- 1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1. Cylinders: Refer to "KEYING" article, herein.
- 2. Provide cylindrical locks with classroom security function with an inside indicator that provides clear direction for users to safely and quickly secure the room.
- 3. Provide locksets able to withstand 3100 inch pounds of torque applied to locked outside lever without gaining access per ANSI/BHMA A156.2 Abusive Locked Lever Torque Test and cycle tested to 3 million cycles per ANSI/BHMA A156.2 Cycle Test.
- 4. Provide levers with vandal resistant technology for use at heavy traffic or abusive applications. Levers feature internal lock components that prevent damage caused by excessive force from persons kicking, hitting or standing on lever to gain access.
- 5. Provide solid steel rotational stops to control excessive rotation of lever.
- 6. Provide completely refunctionable lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
- 7. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw. Provide proper latch throw for UL listing at pairs.
- 8. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
- 9. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
- 10. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
- 11. Provide electrified options as scheduled in the hardware sets.
- 12. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides.
 - a. Lever Design: Schlage Rhodes.

2.8 ELECTRONIC ACCESS CONTROL LOCKSETS AND EXIT DEVICE TRIM

A. Manufacturers:

- 1. Scheduled Manufacturer and Product:
 - a. Schlage AD Series
- 2. Acceptable Manufacturers and Products:
 - a. Substitutions approved by architect.

- 1. Provide adaptable electronic access control products that comply with the following requirements:
 - a. Listed, UL 294 The Standard of Safety for Access Control System Units.
 - b. Compliant with ANSI/BHMA A156.25 Grade 1 Operation and Security.
 - c. Certified to UL10C, FCC Part15, Florida Building Code Standards TAS 201 large missile impact, TAS 202 and TAS 203.
 - d. Compliant with ASTM E330 for door assemblies.
 - e. Compliant with ICC / ANSI A117.1, NFPA 101, NFPA 80, and Industry Canada IC.
- 2. Functions: Provide functions as scheduled that are field configurable without taking the adaptable electronic product off the door.
- 3. Emergency Override: Provide mechanical key override; cylinders: Refer to "KEYING" article, herein.

4. Levers:

- a. Vandal Resistance: Exterior (secure side) lever rotates freely while door remains locked, preventing damage to internal lock components from vandalism by excessive force.
- b. Provide non-handed lever trim that operates independently of non-locking levers.
- **c.** Style: Rhodes.
- d. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

5. Features:

- a. Audible feedback that can be enabled or disabled.
- b. Tamper-Resistant Screws: Tamper torx screws on inside escutcheon for increased security.
- c. Visual tri-colored LED indicators that indicate activation, additional PIN code credential required, operational systems status, system error conditions and low power conditions.
- d. Door Position Switch
- e. Interior Cover Tamper Guard
- f. Mechanical Key Override
- g. Request to Exit
- h. Request to Enter
- i. Lock/Unlock Status

6. Credential Reader:

- 1) Credential Reader Configuration: Provide credential reader modules in the configurations as indicated in door hardware sets.
- 2) Credential Reader Capabilities: Provide credential readers capable of operating with the following integrated software partners.
 - a) 13.56 MHz Smart card credentials:
 - i. Secure section (Multi-Technology and Smartcard): Schlage MIFARE Classic, Schlage MIFARE DESFire EV1, PIV and PIV-I Compatible
 - ii. 13.56 MHz Serial number only (Multi-Technology and Smartcard): MIFARE, DESFire, HID iClass, MIFARE DESFire EV1
 - iii. 125 kHz Proximity card credentials: Schlage, XceedID, HID, GE/CASI ProxLite and AWID.
 - b) Multi-Technology readers that read both 13.56 MHz Smart Cards and 125 kHz Prox cards.
 - c) Dual credential reading capabilities credential card or fob and PIN.
 - d) 12 button keypad with backlit buttons.
 - e) Magnetic Card Reader:
 - i. Full insertion or swipe reader capable of reading information along full length of magnetic stripe.
 - ii. Magnetic card triple track reader capable of reading tracks 1, 2 or 3 per configuration in field.

7. Operation:

a. Offline – access control rights stored on device

- 1) Provide adaptable electronic access control products with the ability to be configured at door by handheld programming device the length of time device is unlocked upon access grant.
- 2) Provide adaptable electronic access control products with the ability to communicate identifying information such as firmware versions, hardware versions, serial numbers, and manufacturing dates by handheld programming device.

b. Networked – hardwired

- 1) Adaptable electronic access control product system interface:
- 2) Adaptable electronic access control products to have real-time bidirectional communication between access control system and lock.
- 3) Credential Verification Time: less than 1 second.
- 4) When Utilized with Partner Integrated Access Control Network Software with Remote Commanding Capability: Provide adaptable electronic access control product with the ability to be remotely locked down or unlocked within 10 seconds or less, without user interface at the device.
- 5) Upon Loss of Power to Device: Provide adaptable electronic access control product with the ability to manage access control offline in one of three methods below that can be configured in the field at lockset by handheld programming device and remotely by Partner integrated software:
 - a) Fail locked (secured)
 - b) Fail unlocked (unsecured)
 - c) Fail As-Is
- 6) Upon Loss of Communication Between Device and Network: Provide adaptable electronic access control product with the ability to manage access control offline in one of four methods below that can be configured in the field at device by handheld programming device and remotely by Partner integrated software:
 - a) Fail locked (secured)
 - b) Fail unlocked (unsecured)
 - c) Fail As-Is
 - d) Fail to Degraded/cache mode utilizing cache memory with following selectable options:
 - i. Grant access up to the last 1,000 unique previously accepted User IDs.
 - ii. Grant access up to the last 1,000 unique previously accepted facility/site codes
 - iii. Remove from cache previously stored User IDs or facility/site codes that have not been presented to lock within the last 5 days.
- 7) Provide adaptable electronic access control product with the ability to be configured at door by handheld programming device and remotely by Partner integrated software the length of time device is unlocked upon access grant.
- 8) Provide adaptable electronic access control product with the ability to communicate identifying information such as firmware versions, hardware versions, serial numbers, and manufacturing dates by handheld programming device and remotely by Partner integrated software.

c. Networked – wireless

- 1) Adaptable electronic access control product system interface.
- 2) Adaptable electronic access control products to have real-time bidirectional communication between access control system and lock.

- 3) Remote Commanding By Partner Integrated Access Control Network Software: Battery-powered lockset shall have "Wake on Radio" feature causing activation of remote, wireless access control devices, enabling activated devices to be configured, locked or unlocked from a centralized location within 10 seconds or less without user interface at the device.
- 4) Local Commanding: Provide adaptable electronic access control product with the ability to be configured, locked or unlocked locally by handheld programming device, in real-time.
- 5) When Utilized with Access Control Network Software with Remote Commanding Capability: Provide adaptable electronic access control product with the ability to be remotely locked down or unlocked within 10 seconds or less while battery powered without user interface at the device.
- 6) Real-time response of battery powered device capable of being configured at door by handheld programming device and remotely by Partner integrated software.
- 7) Upon Loss of Power to Device: Provide adaptable electronic access control product with the ability to manage access control offline in one of three methods below that can be configured in the field at device by handheld programming device and remotely by Partner integrated software:
 - a) Fail locked (secured)
 - b) Fail unlocked (unsecured)
 - c) Fail As-Is
- 8) Upon Loss of Communication Between Device and Network: Provide adaptable electronic access control product with the ability to manage access control offline in one of four methods below that can be configured in the field at lockset by handheld programming device and remotely by Partner integrated software:
 - a) Fail locked (secured)
 - b) Fail unlocked (unsecured)
 - c) Fail As-Is
 - d) Fail to Degraded/cache mode utilizing cache memory with following selectable options:
 - i. Grant access up to the last 1,000 unique previously accepted User IDs.
 - ii. Grant access up to the last 1,000 unique previously accepted facility/site codes
 - iii. Remove from cache previously stored User IDs or facility/site codes that have not been presented to lock within the last 5 days.
- 9) Provide adaptable electronic access control product with the ability to be configured at door by handheld programming device and remotely by Partner integrated software the length of time device is unlocked upon access grant.
- 10) Provide adaptable electronic access control product with the ability to communicate identifying information such as firmware versions, hardware versions, serial numbers, and manufacturing dates by handheld programming device and remotely by Partner integrated software.
- 11) Wireless Transmission:
 - a) Modulation: 900 MHz spread spectrum, direct sequence, 10 channels.
 - b) Encryption: AES-128-bit Key minimum.

C. Components (EDIT TO SUIT)

1. Product: Schlage HHD series with Utility Software.

- a. Provide Handheld Programming Device for adaptable electronic access control products capable of the following minimum requirements.
 - 1) Capable of initializing lock and accessories using preloaded software.
 - 2) Utilized to field configure electronic access control devices, to download firmware updates and door files to device, and to download audit files from device.
- 2. Provide Panel Interface for adaptable electronic access control products.
 - a. Product: Schlage PIM400-485 or PIM400-TD2 Panel Interface Module as required. (AD-400)
 - b. Product: Schlage PIM400-1501 Panel Interface Module. (AD-400)

2.9 EXIT DEVICES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: Von Duprin 99/33 series
- 2. Acceptable Manufacturers and Products: Detex Advantex series, Precision Apex series

- 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1, and UL listed for Panic Exit or Fire Exit Hardware. Cylinders: Refer to "KEYING" article, herein.
- 2. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 3. Touchpad: Extend minimum of one half of door width. Match exit device finish, stainless steel for US26, US26D, US28, US32, and US32D finishes; and for all other finishes, provide compatible finish to exit device. Provide compression springs in devices, latches, and outside trims or controls; tension springs also acceptable.
- 4. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 5. Provide exit devices with manufacturer's approved strikes.
- 6. Provide exit devices cut to door width and height. Locate exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- 7. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- 8. Provide cylinder dogging at non-fire-rated exit devices, unless specified less dogging.
- 9. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion that is removed by use of a keyed cylinder, which is self-locking when re-installed.
- 10. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.
 - a. Lever Style: Match lever style of locksets.
 - b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

- 11. Concealed Vertical Cable Exit Devices: provide cable-actuated concealed vertical latch system in two-point for non-rated or fire rated wood doors up to a 90 minute rating and less bottom latch (LBL) configuration for non-rated or fire rated wood doors up to 20 minute rating. Vertical rods not permitted.
 - a. Cable: Stainless steel with abrasive resistant coating. Conduit and core wire ends snap into latch and center slides without use of tools.
 - b. Wood Door Prep: Maximum 1 inch x 1.1875 inch x 3.875 inches top latch pocket and 1 inch x 1.1875 inch x 5 inches bottom latch pocket which does not require the use of a metal wrap or edge for non-rated or fire rated wood doors up to a 45 minute rating.
 - c. Latchbolts and Blocking Cams: Manufactured from sintered metal low carbon copper- infiltrated steel, with molybdenum disulfide low friction coating.
 - d. Top Latchbolt: Minimum 0.38 inch (10 mm) and greater than 90 degree engagement with strike to prevent door and frame separation under high static load.
 - e. Bottom Latchbolt: Minimum of 0.44 inch (11 mm) engagement with strike.
 - f. Product Cycle Life: 1,000,000 cycles.
 - g. Latch Operation: Top and bottom latch operate independently of each other. Top latch fully engages top strike even when bottom latch is compromised. Separate trigger mechanisms not permitted.
 - h. Latch release does not require separate trigger mechanism.
 - i. Cable and latching system characteristics:
 - 1) Installed independently of exit device installation, and capable of functioning on door prior to device and trim installation.
 - 2) Connected to exit device at single point in steel and aluminum doors, and two points for top and bottom latches in wood doors.
 - 3) Bottom latch height adjusted, from single point for steel and aluminum doors and two points for wood doors, after system is installed and connected to exit device, while door is hanging
 - 4) Bottom latch position altered up and down minimum of 2 inches (51 mm) in steel and aluminum doors without additional adjustment. Bottom latch deadlocks in every adjustment position in wood doors.
 - 5) Top and bottom latches in steel and aluminum doors and top latch in wood doors may be removed while door is hanging.
 - 6) Top latch mounting: double or single tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
- 12. Provide UL labeled fire exit hardware for fire rated openings.
- 13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 14. Provide electrified options as scheduled.

2.10 ELECTRIC STRIKES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: Von Duprin 6000 series
- 2. Acceptable Manufacturers and Products: Folger Adam 300 series, HES 1006 series

- 1. Provide electric strikes designed for use with type of locks shown at each opening.
- 2. Provide electric strikes UL Listed as burglary-resistant.
- 3. Where required, provide electric strikes UL Listed for fire doors and frames.
- 4. Provide fail-secure type electric strikes, unless specified otherwise.
- 5. Coordinate voltage and provide transformers and rectifiers for each strike as required.

2.11 POWER SUPPLIES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: Schlage or Von Duprin PS900 series
- 2. Acceptable Manufacturers and Products No Substitutions

B. Requirements:

- 1. Provide power supplies, recommended and approved by manufacturer of electrified locking component, for operation of electrified locks, electrified exit devices, magnetic locks, electric strikes, and other components requiring power supply.
- 2. Provide appropriate quantity and size of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
- 3. Provide appropriate option boards for power supplies necessary for proper operation of the electrified locking components as recommended by the manufacturer of the electrified locking components with consideration for each electrified component used in the system.
- 4. Provide regulated and filtered 24 VDC power supply and UL class 2 listed.
- 5. Options:
 - a. Provide power supply, where specified, with internal capability of charging sealed backup batteries 24 VDC, in addition to operating DC load.
 - b. Provide sealed batteries for battery back-up at each power supply where specified.
 - c. Provide keyed power supply cabinet.
- 6. Provide power supply in an enclosure, complete, and requiring 120VAC to fused input.
- 7. Provide power supply with emergency release terminals, where specified, that allow release of all devices upon activation of fire alarm system complete with fire alarm input for initiating "no delay" exiting mode.

2.12 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer: Best

2. Acceptable Manufacturers: No Substitution

- 1. Provide cylinders/cores, from the same manufacturer of locksets, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
- 2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. High Security: dual-locking cylinder with permanent core requiring, patented keyway.
 - b. Security: dual-locking cylinder with **interchangeable** core requiring restricted, patented keyway.
 - c. Conventional cylinder with **interchangeable** core with open keyway.
- 3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent-protected.
- 4. Security Cylinders: Where indicated, provide cylinders/cores with "dual-locking mechanism" with interlocking finger pin(s) to check for patented features on keys.
- 5. Nickel silver bottom pins.
- 6. Temporary Construction Cylinder Keying.
 - a. Owner or Owner's Representative will void operation of temporary construction keys.
- 7. Replaceable Construction Cores..
 - a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - 1) 12 construction change (day) keys.

2.13 KEYING

- A. Provide a factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Requirements:
 - 1. Key per the following:
 - a. All Locks to be keyed into the owner existing Master Key System as directed by the owner.
 - 2. Provide keys with the following features.
 - a. Material: Solid nickel plated
 - 3. Identification:
 - a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.
 - b. Identification stamping provisions must be approved by the Architect and Owner.

- c. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.
- d. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- 4. Quantity: Furnish in the following quantities.
 - a. Change (Day) Keys: 3 per cylinder/core.
 - b. Permanent Control Keys: 3.
 - c. Master Keys: 6.
 - d. Unused balance of key blanks shall be furnished to Owner with the cut keys.
 - e. Extra Keys:
 - 1) 6 Construction Keys

2.14 KEY CONTROL SYSTEM

A. Manufacturers:

- 1. Scheduled Manufacturer: Telkee
- 2. Acceptable Manufacturers: HPC, Lund

B. Requirements:

- 1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
 - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - b. Provide hinged-panel type cabinet for wall mounting.

2.15 DOOR CLOSERS

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: LCN 4040XP series.
- 2. Acceptable Manufacturers and Products: Sargent 281 series, Corbin Russwin DC8200 series

- 1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
- 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
- 3. Cylinder Body: 1-1/2 inch (38 mm) diameter with 3/4 inch (19 mm) diameter double heat-treated pinion journal.
- 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

- 5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
- 6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
- 7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
- 8. Pressure Relief Valve (PRV) Technology: Not permitted.
- 9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
- 10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.16 ELECTRO-HYDRAULIC AUTOMATIC OPERATORS

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product: LCN 4600 series.
- 2. Acceptable Manufacturers and Products: Norton 6000 series, Detex A019 series.

- 1. Provide low energy automatic operator units with hydraulic closer complying with ANSI/BHMA A156.19.
- 2. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
- 3. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door
- 4. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
- 5. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check valve, sweep valve, latch valve to control door.
- 6. Provide drop plates, brackets, or adapters for arms as required for details.
- 7. Provide hard-wired actuator switches for operation as specified.
- 8. Provide weather-resistant actuators at exterior applications.
- 9. Provide key switches with LED's, recommended and approved by manufacturer of automatic operator as required for function described in operation description of hardware group below. Cylinders: Refer to "KEYING" article, herein.
- 10. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.
- 11. Provide units with vestibule inputs that allow sequencing operation of two units, and SPDT relay for interfacing with latching or locking devices.

2.17 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer: Ives

2. Acceptable Manufacturers: Burns, Rockwood

B. Requirements:

- 1. Provide push plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick and beveled 4 edges. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
- 2. Provide push bars of solid bar stock, diameter and length as scheduled. Provide push bars of sufficient length to span from center to center of each stile. Where required, mount back to back with pull.
- 3. Provide offset pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
- 4. Provide flush pulls as scheduled. Where required, provide back-to-back mounted model.
- 5. Provide pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
- 6. Provide pull plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
- 7. Provide wire pulls of solid bar stock, diameter and length as scheduled.
- 8. Provide decorative pulls as scheduled. Where required, mount back to back with pull.

2.18 PROTECTION PLATES

A. Manufacturers:

- 1. Scheduled Manufacturer: Ives
- 2. Acceptable Manufacturers: Burns, Rockwood

B. Requirements:

- 1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
- 2. Sizes of plates:
 - a. Kick Plates: 10 inches (254 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
 - b. Mop Plates: 4 inches (102 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
 - c. Armor Plates: 36 inches (914 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs

2.19 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

Scheduled Manufacturers: Glynn-Johnson
 Acceptable Manufacturers: Rixson, Sargent

B. Requirements:

- 1. Provide heavy duty concealed mounted overhead stop or holder as specified for exterior and interior vestibule single acting doors.
- 2. Provide heavy duty concealed mounted overhead stop or holder as specified for double acting doors.
- 3. Provide heavy or medium duty and concealed or surface mounted overhead stop or holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking wall, open against equipment, casework, sidelights, and where conditions do not allow wall stop or floor stop presents tripping hazard.
- 4. Where overhead holders are specified provide friction type at doors without closer and positive type at doors with closer.

2.20 DOOR STOPS AND HOLDERS

A. Manufacturers:

- 1. Scheduled Manufacturer: Ives
- 2. Acceptable Manufacturers: Burns, Rockwood

B. Provide door stops at each door leaf:

- 1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
- 2. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
- 3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

2.21 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer: Zero International

2. Acceptable Manufacturers: Pemko, Reese

- 1. Provide thresholds, weatherstripping (including door sweeps, seals, astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
- 2. Size of thresholds::
 - a. Saddle Thresholds: 1/2 inch (13 mm) high by jamb width by door width

- b. Bumper Seal Thresholds: 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width
- 3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

2.22 SILENCERS

A. Manufacturers:

- 1. Scheduled Manufacturer: Ives
- 2. Acceptable Manufacturers: Burns, Rockwood

B. Requirements:

- 1. Provide "push-in" type silencers for hollow metal or wood frames.
- 2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
- 3. Omit where gasketing is specified.

2.23 MAGNETIC HOLDERS

A. Manufacturers:

- 1. Scheduled Manufacturer: LCN
- 2. Acceptable Manufacturers: Rixson, Sargent

B. Requirements:

 Provide wall or floor mounted electromagnetic door release as specified with minimum of 25 pounds of holding force. Coordination projection of holder and armature with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Wire magnetic holders on fire-rated doors into the fire control panel for fail-safe operation.

2.24 FINSHES

A. Finish: BHMA 626/652 (US26D); except:

- 1. Hinges at Exterior Doors: BHMA 630 (US32D)
- 2. Continuous Hinges: BHMA 628 (US28)
- 3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
- 4. Protection Plates: BHMA 630 (US32D)
- 5. Overhead Stops and Holders: BHMA 630 (US32D)
- 6. Door Closers: Powder Coat to Match
- 7. Wall Stops: BHMA 630 (US32D)
- 8. Latch Protectors: BHMA 630 (US32D)
- 9. Weatherstripping: Clear Anodized Aluminum
- 10. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Existing Door and Frame Compatibility: Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Where on-site modification of doors and frames is required:
 - 1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
 - 2. Field modify and prepare existing door and frame for new hardware being installed.
 - 3. When modifications are exposed to view, use concealed fasteners, when possible.
 - 4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
 - a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
 - b. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
 - c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

- C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- H. Intermediate Offset Pivots: Where offset pivots are indicated, provide intermediate offset pivots in quantities indicated in door hardware schedule but not fewer than one intermediate offset pivot per door and one additional intermediate offset pivot for every 30 inches (750 mm) of door height greater than 90 inches (2286 mm).
- I. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as indicated in keying section.
- J. Wiring: Coordinate with Division 26, ELECTRICAL sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- L. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Closers shall not be visible in corridors, lobbies and other public spaces unless approved by Architect.
- M. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
 - 1. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.

- O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- S. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.4 FIELD QUALITY CONTROL

- A. Architectural Hardware Consultant: Engage qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
 - 1. Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.5 FIELD INSPECTIONS:

- A. Fire Door Assembly Inspection and Testing: Provide functional testing and inspection of fire door assemblies in accordance with NFPA 80-2007/2010. Inspections shall be performed by individuals certified by Intertek as a Fire Door Assembly Inspector, using reporting forms provided by the Door and Hardware Institute (DHI). Alternatively, inspections may be performed by individuals acceptable to the Architect, who have knowledge and understanding of the operating components of the applicable door type, and who have experience in preparing written reports of testing and inspection results.
 - 1. Schedule fire door assembly inspection within 90 days of Substantial Completion of the Project.
 - 2. Submit a signed, written final report as specified in Paragraph 1.4: Submittals.
 - 3. Contractor shall correct all deficiencies and schedule a reinspection of fire door assemblies which were noted as deficient on the inspection report.
 - 4. Inspector shall reinspect fire door assemblies after repairs are made.
 - 5. Additional reinspections which are required due to incomplete repairs will be performed by the inspector at the expense of the Contractor.

3.6 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.

- 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
- 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
- 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.7 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.8 DEMONSTRATION

A. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

3.9 DOOR HARDWARE SCHEDULE

A. Locksets, exit devices, and other hardware items are referenced in the following hardware sets for series, type and function. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.

Hardware Sets: 125384 OPT0410157 Version 4

HARDWARE GROUP NO. 01

FOR USE ON DOOR #(S):

006 008 131

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM DEADBOLT W/ OUTSIDE INDICATOR	B663BDC 12-631 OS-LOC	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8302 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 02

FOR USE ON DOOR #(S):

132

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	<u>FINIS</u> <u>H</u>	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM DEADBOLT W/ OUTSIDE INDICATOR	B663BDC 12-631 OS-LOC	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8302 10" 4" X 16"	630	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 03

FOR USE ON DOOR #(S): 135B

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINIS</u> <u>H</u>	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S RHO OS-OCC	626	SCH
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 04-EXIST

FOR USE ON DOOR #(S): 121

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 05-EXIST

FOR USE ON DOOR #(S): 125B

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u>		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 06

FOR USE ON DOOR #(S): 127B

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S RHO OS-OCC	626	SCH
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE	BK	ZER

HARDWARE GROUP NO. 07-EXIST

FOR USE ON DOOR #(S): 013B

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	<u>FINIS</u> <u>H</u>	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 08

FOR USE ON DOOR #(S):

141B 141D 141J 302A

\overline{QT}		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$				<u>H</u>	
1	EA	CONT. HINGE	224HD	628	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE

FOR USE ON DOOR #(S):

141A 141C 141K 302B

<u>QT</u>		DESCRIPTION	CATALOG NUMBER	<u>FINIS</u>	<u>MFR</u>
<u>Y</u>				<u>H</u>	
2	EA	CONT. HINGE	224HD	628	IVE
1	EA	REMOVABLE MULLION	KR4954-STAB-MT54	689	VON
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
2	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
2	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA APPLY TO Z ASTRAGAL	BK	ZER
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
2	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE

FOR USE ON DOOR #(S): 301

$\overline{\mathbf{QT}}$		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>QT</u> <u>Y</u> 2				<u>H</u>	
2	EA	CONT. HINGE	224HD	628	IVE
1	EA	AUTO FLUSH BOLT	F31P/FB41P AS REQ'D	630	IVE
1	EA	DUST PROOF STRIKE	DP1	626	IVE
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	FIRE EXIT HARDWARE	9975-L-NL-F-17	626	VON
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	COORDINATOR	COR X FL X MBF AS REQUIRED	628	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
2	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
2	EA	ARMOR PLATE	8402 34" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA APPLY TO Z ASTRAGAL	BK	ZER
1	EA	ASTRAGAL	Z TYPE ASTRAGAL BY HM DR SUPPLIER		B/O
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
2	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE

FOR USE ON DOOR #(S): 135C

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	CATALOG NUMBER	<u>FINIS</u> <u>H</u>	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S RHO OS-OCC	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 12-EXIST

FOR USE ON DOOR #(S): 119 120

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	PRIVACY LOCK W/ OUTSIDE INDICATOR	ND40S RHO OS-OCC	626	SCH
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 13-EXIST

FOR USE ON DOOR #(S): 127C 135D

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	ROLLER BUMPER	RB470 HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE	626	IVE

HARDWARE GROUP NO. 14-EXIST

FOR USE ON DOOR #(S):

134B 137 139 204 215B

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 15-EXIST

FOR USE ON DOOR #(S): 126B

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u>		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 16-EXIST - NOT USED

FOR USE ON DOOR #(S):

<u>QT</u> <u>Y</u> 3		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 17-EXIST

FOR USE ON DOOR #(S): 116A

PROVIDE EACH OPENING WITH THE FOLLOWING:

\mathbf{QT}		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$				<u>H</u>	
4	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	630	IVE
1	EA	FIRE EXIT HARDWARE	99-EO-F	626	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 18-EXIST

FOR USE ON DOOR #(S):

141T

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$				<u>H</u>	
1	EA	FULL SURFACE CONT HINGE	157XY	628	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
4	EA	FILLER PLATE	FILLER PLATES AS REQUIRED	UNFIN ISHED	FAL
1	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
1	EA	WALL STOP	WS443	626	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 19-EXIST

FOR USE ON DOOR #(S):

129D	134C	141E	141F	141H	141L
141M	141P	141Q	141R	141S	

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\overline{\mathbf{QT}}$		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$				<u>H</u>	
1	EA	FULL SURFACE CONT HINGE	157XY	628	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
4	EA	FILLER PLATE	FILLER PLATES AS REQUIRED	UNFIN ISHED	FAL
1	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 20-EXIST

FOR USE ON DOOR #(S):

116B

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	FIRE EXIT HARDWARE	99-EO-F	626	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 21-EXIST

FOR USE ON DOOR #(S): 116C 133C

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	FIRE EXIT HARDWARE	99-EO-F	626	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 22-EXIST

FOR USE ON DOOR #(S): 129B

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u> 3		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	ELEC FIRE EXIT HARDWARE	RX-99-EO-F-ALK 9-VOLT BATTERY WITH HARDWIRED OPTION	626	VON
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

OPERATION: WHEN THE TOUCH BAR IS DEPRESSED, THE HORN SOUNDS TO PROVIDE AN AUDIBLE MEANS OF SIGNALING

THAT THE OPENING HAS BEEN VIOLATED. THE ALARM KIT CAN BE ARMED OR DISARMED BY KEY THUS ALLOWING THE EXIT

DEVICE TO BE SET IN AN ARMED OR DISARMED MODE. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 23-EXIST - NOT USED

FOR USE ON DOOR #(S):

PROVIDE EACH OPENING WITH THE FOLLOWING:

\mathbf{QT}		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$				<u>H</u>	
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS	652	IVE
			REQUIRED)		
1	EA	ENTRANCE/OFFICE LOCK	ND50BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING	626	BES
			COREMAX KEY SYSTEM		
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS	BK	ZER
			REQUIRED		
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 24-EXIST

FOR USE ON DOOR #(S): 201

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	FIRE EXIT HARDWARE	99-L-BE-F-06	626	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 25-EXIST-AC

FOR USE ON DOOR #(S):

005A	125A	135A	138A	202A	202D
208A	208D				

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u> 3		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 26-AC

FOR USE ON DOOR #(S): 133B

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u>		DESCRIPTION	CATALOG NUMBER	FINIS	<u>MFR</u>
<u>Y</u>				<u>H</u>	
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY DOOR/FRAME MFGR.		B/O
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE

HARDWARE GROUP NO. 27-AC

FOR USE ON DOOR #(S): 117A

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY DOOR/FRAME MFGR.		B/O
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
1	EA	DOOR CONTACT	7764	628	SCE
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE

HARDWARE GROUP NO. 28-EXIST-AC

FOR USE ON DOOR #(S):

128 207A 214 215A

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u> 3		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>Y</u>	т.	LIBLOE		<u>H</u>	IX /IE
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	FIRE EXIT HARDWARE	99-EO-F	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B-RHR 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE
			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 29-EXIST

FOR USE ON DOOR #(S):

129A 207B 209

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	FINIS H	<u>MFR</u>
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	FIRE EXIT HARDWARE	99-L-BE-F-06	626	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MAGNET	SEM7800 SERIES AS REQ'D	689	LCN
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		

OPERATION: DOORS HELD OPEN AND MANUALLY CLOSED OR CLOSED BY FIRE ALARM.

HARDWARE GROUP NO. 30 - NOT USED

FOR USE ON DOOR #(S):

<u>QT</u> <u>Y</u>		<u>DESCRIPTION</u>	CATALOG NUMBER	<u>FINIS</u> <u>H</u>	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 31-EXIST

FOR USE ON DOOR #(S): 140

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u>		DESCRIPTION	<u>CATALOG NUMBER</u>	FINIS H	<u>MFR</u>
1	EA	FULL SURFACE CONT HINGE	157XY	628	IVE
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
4	EA	FILLER PLATE	FILLER PLATES AS REQUIRED	UNFIN ISHED	FAL
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA SRI	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 32

FOR USE ON DOOR #(S): 129C

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINIS</u> <u>H</u>	<u>MFR</u>
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	MAGNET	SEM7800 SERIES AS REQ'D	689	LCN
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REOUIRED	BK	ZER

OPERATION: DOORS HELD OPEN AND MANUALLY CLOSED OR CLOSED BY FIRE ALARM.

HARDWARE GROUP NO. 33-EXIST

FOR USE ON DOOR #(S): 117B

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	<u>FINIS</u> <u>H</u>	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 34-EXIST

FOR USE ON DOOR #(S): 134A

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	FIRE EXIT HARDWARE	99-L-BE-F-06	626	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 35-AC

FOR USE ON DOOR #(S):

011 012B 013A 133A 143 211B 213A

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{V}}$		DESCRIPTION	CATALOG NUMBER	FINIS	<u>MFR</u>
<u>Y</u> 3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	<u>Н</u> 652	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE

HARDWARE GROUP NO. 36-EXIST

FOR USE ON DOOR #(S):

101 102

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
1	EA	FULL SURFACE CONT HINGE	157XY	628	IVE
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
4	EA	FILLER PLATE	FILLER PLATES AS REQUIRED	UNFIN ISHED	FAL
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 37-EXIST

FOR USE ON DOOR #(S): 210

PROVIDE EACH OPENING WITH THE FOLLOWING:

\overline{QT}		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>QT</u> <u>Y</u> 6				<u>H</u>	
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	MANUAL FLUSH BOLT	FB358/FB458 AS REQUIRED	626	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
2	EA	OH STOP & HOLDER	90H	630	GLY
2	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	MULLION SEAL	8780NBK PSA APPLY TO Z ASTRAGAL	BK	ZER
1	EA	ASTRAGAL	Z TYPE ASTRAGAL BY HM DR SUPPLIER		B/O
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 38-EXIST

FOR USE ON DOOR #(S): 123D

<u>QT</u>		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>Y</u>				<u>H</u>	
2	EA	CONT. HINGE	112HD	628	IVE
2	EA	DUMMY PUSH BAR	350	626	VON
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY		B/O
			DOOR/FRAME MFGR.		
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 39-EXIST - NOT USED

FOR USE ON DOOR #(S):

\overline{QT}		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>Y</u> 2				<u>H</u>	
2	EA	CONT. HINGE	112HD	628	IVE
2	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS	626	BES
			REQUIRED		
1	EA	PANIC HARDWARE	CDSI-9949-EO	626	VON
1	EA	PANIC HARDWARE	CDSI-9949-NL-OP-110MD	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
3	EA	PERMANENT CORE	MATCH OWNER'S EXISTING	626	BES
			COREMAX KEY SYSTEM		
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
2	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY		B/O
			DOOR/FRAME MFGR.		
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
2	EA	DOOR CONTACT	7764	628	SCE
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 40-EXIST

FOR USE ON DOOR #(S): 000A

$\overline{\mathbf{QT}}$		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>QT</u> <u>Y</u>				<u>H</u>	
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	CDSI-99-NL-OP-110MD	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
2	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY DOOR/FRAME MFGR.		B/O
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223 HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE	A	ZER

HARDWARE GROUP NO. 41-EXIST

FOR USE ON DOOR #(S): 000B

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	CDSI-99-NL-OP-110MD	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
2	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY DOOR/FRAME MFGR.		B/O
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
1	EA	DOOR CONTACT	7764 HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE	628	SCE

HARDWARE GROUP NO. 42 - NOT USED

FOR USE ON DOOR #(S):

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u>		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	CLASSROOM LOCK	ND70BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 43-EXIST

FOR USE ON DOOR #(S):

110C

<u>QT</u> <u>Y</u>		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
4	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	CDSI-99-L-06	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
2	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 44-EXIST - NOT USED

FOR USE ON DOOR #(S):

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\overline{\mathbf{QT}}$		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>Y</u>				<u>H</u>	
1	EA	FULL SURFACE CONT HINGE	157XY	628	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8302 10" 4" X 16"	630	IVE
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH	BK	ZER
			EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 45-EXIST

FOR USE ON DOOR #(S):

110E 115 141G 141N 141U

<u>QT</u> <u>Y</u> 3		<u>DESCRIPTION</u>	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	630	IVE
1	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	CDSI-99-L-06	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
2	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 46-EXIST

FOR USE ON DOOR #(S): 118A 118B

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
2	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	CDSI-9950WDC-EO-SNB	626	VON
1	EA	PANIC HARDWARE	CDSI-9950WDC-NL-OP-110WD- SNB	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
3	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
2	EA	OH STOP & HOLDER	90H	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	SET	MEETING STILE	328AA-S	AA	ZER
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

FOR USE ON DOOR #(S): 013D

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
2	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	LD-9950WDC-EO-SNB	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B-RHR 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	SET	MEETING STILE	328AA-S	AA	ZER
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE

HARDWARE GROUP NO. 48 - NOT USED

FOR USE ON DOOR #(S):

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		<u>DESCRIPTION</u>	<u>CATALOG NUMBER</u>	<u>FINIS</u> <u>H</u>	<u>MFR</u>
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS REQUIRED)	652	IVE
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER

HARDWARE GROUP NO. 49-EXIST-AC

FOR USE ON DOOR #(S):

005B 012A 025B 126A 127A 127D

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u> 3		DESCRIPTION	CATALOG NUMBER	FINIS H	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER HDWE SUPPLIER/GC TO VERIFY		SCE
			COMPATIBILITY WITH EXISTING FOR NEW HDWE		

HARDWARE GROUP NO. 50-AC

FOR USE ON DOOR #(S):

025A 027 125C 211A 213B

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u>		DESCRIPTION	CATALOG NUMBER	<u>FINIS</u> <u>H</u>	<u>MFR</u>
<u>Y</u> 3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS REQUIRED)	652	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS REQUIRED	BK	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE

HARDWARE GROUP NO. 51-AC

FOR USE ON DOOR #(S): 110D

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	<u>CATALOG NUMBER</u>	FINIS H	<u>MFR</u>
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B-RHR 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY DOOR/FRAME MFGR.		B/O
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE

HARDWARE GROUP NO. 52-AC

FOR USE ON DOOR #(S): 111A

PROVIDE EACH OPENING WITH THE FOLLOWING:

\overline{QT}		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>Y</u> 3				<u>H</u>	
3	EA	HINGE	5BB1HW 4.5 X 4.5 (NRP AS	652	IVE
			REQUIRED)		
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B-RHR	626	SCE
			4AA BATTERY BY ACCESS		
			CONTROL PROVIDER		
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING	626	BES
			COREMAX KEY SYSTEM		
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS	BK	ZER
			REQUIRED		
1	EA	PIM	PIM400-AS REQUIRED BY		SCE
			ACCESS CONTROL PROVIDER		

HARDWARE GROUP NO. 53-EXIST-AC

FOR USE ON DOOR #(S): 111B

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	<u>FINIS</u>	MFR
<u>Y</u> 1	EA	FULL SURFACE CONT	157XY	<u>Н</u> 628	IVE
1	LA	HINGE	13/X1	028	IVL
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B-RHR 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH		SCE
			EXISTING FOR NEW HDWE		

FOR USE ON DOOR #(S): 124A 124B

$\frac{\mathbf{QT}}{\mathbf{V}}$		DESCRIPTION	<u>CATALOG NUMBER</u>	FINIS H	<u>MFR</u>
<u>Y</u> 2	EA	CONT. HINGE	112HD	<u>11</u> 628	IVE
2	EA	MORTISE CYLINDER	1E74 CAM & COLLAR AS REQUIRED	626	BES
1	EA	PANIC HARDWARE	CDSI-9949-EO	626	VON
1	EA	PANIC HARDWARE	CDSI-9949-NL-OP-110MD	626	VON
1	EA	RIM CYLINDER	1E72	626	BES
3	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
2	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY DOOR/FRAME MFGR.		B/O
2	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	65A-223	A	ZER
2	EA	DOOR CONTACT	7764	628	SCE

FOR USE ON DOOR #(S): 124C 124D

QT		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
<u>Y</u>				<u>H</u>	
2	EA	CONT. HINGE	112HD	628	IVE
2	EA	DUMMY PUSH BAR	350	626	VON
2	EA	90 DEG OFFSET PULL	8190EZHD 12" O	630-316	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA SRI	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT	689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1	EA	WEATHERSTRIP	INTEGRAL WEATHERSTRIP BY		B/O
			DOOR/FRAME MFGR.		
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

HARDWARE GROUP NO. 56-EXIST-AC

FOR USE ON DOOR #(S): 135E

PROVIDE EACH OPENING WITH THE FOLLOWING:

<u>QT</u> <u>Y</u> 3		DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$				<u>H</u>	
3	EA	HINGE	5BB1 4.5 X 4.5 *(NRP AS	652	IVE
			REQUIRED)		
1	EA	STOREROOM LOCK	ND80BDC RHO	626	SCH
1	EA	INTERFACE BOX	JB7 AS REQUIRED		VON
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING	626	BES
			COREMAX KEY SYSTEM		
1	EA	ELECTRIC STRIKE	ELECTRIC STRIKE AS REQUIRED	630	VON
1	EA	OH STOP	90S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	SR64/65 OR 488 SEALS AS	BK	ZER
			REQUIRED		
1	EA	DESK MOUNT BUTTON	660-PB	628	SCE
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1	EA	POWER SUPPLY	PS902 BBK 900-2RS 120/240 VAC	LGR	SCE
			HDWE SUPPLIER/GC TO VERIFY		
			COMPATIBILITY WITH		
			EXISTING FOR NEW HDWE		
1	EA	NOTE	CARD READER BY ACCESS		
			CONTROL PROVIDER		
1			PROVIDE FACTORY POINT TO		
1			POINT WIRING DIAGRAMS		
	(TIO)		PROVIDE RISER DIAGRAMS	TE AGE A	I I OHIG

OPERATION: DOOR CLOSED AND SECURE. VALID CREDENTIAL OR RMOTE RELEASE ALLOWS ENTRY. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 57-EXIST-AC

FOR USE ON DOOR #(S): 138B

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	CATALOG NUMBER	FINIS H	<u>MFR</u>
1	EA	FULL SURFACE CONT HINGE	157XY	628	IVE
1	EA	ELEC CLASSROOM LOCK	AD-400-CY-70-MT-RHO-B 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
4	EA	FILLER PLATE	FILLER PLATES AS REQUIRED	UNFIN ISHED	FAL
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH SRI	689	LCN
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8198AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	DOOR CONTACT	679-05WD/HM AS REQUIRED	BLK	SCE
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER		SCE
1			HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		

OPERATION: DOOR CLOSED AND SECURE. VALID CREDENTIAL ALLOWS ENTRY. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 58-AC

FOR USE ON DOOR #(S): 302C

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\frac{\mathbf{QT}}{\mathbf{Y}}$		DESCRIPTION	<u>CATALOG NUMBER</u>	FINIS	MFR
1	EA	FULL SURFACE CONT HINGE	157XY	<u>Н</u> 628	IVE
1	EA	PANIC HARDWARE	LD-99-EO	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MT-RHO-B-RHR 4AA BATTERY BY ACCESS CONTROL PROVIDER	626	SCE
1	EA	PERMANENT CORE	MATCH OWNER'S EXISTING COREMAX KEY SYSTEM	626	BES
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B-CS	630	IVE
1	SET	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	PIM	PIM400-AS REQUIRED BY ACCESS CONTROL PROVIDER HDWE SUPPLIER/GC TO VERIFY COMPATIBILITY WITH EXISTING FOR NEW HDWE		SCE

OPERATION: DOOR CLOSED AND SECURE. VALID CREDENTIAL ALLOWS ENTRY. FREE EGRESS AT ALL TIMES.

HARDWARE GROUP NO. 59-RU

FOR USE ON DOOR #(S):

OH15 OH16 OH19 OH20

PROVIDE EACH OPENING WITH THE FOLLOWING:

$\overline{\mathbf{QT}}$	DESCRIPTION	CATALOG NUMBER	FINIS	MFR
$\underline{\mathbf{Y}}$			<u>H</u>	
1		HARDWARE BY DOOR / FRAME		
		MANUFACTURER		

End of Section

Pulaski County Indoor Sportsplex and Expo Center

BUILDI	DOOR	HWSE
NG	NUMBE RS	T#
	000A	40-
	00071	EXIST
	000B	41-
	COOL	EXIST
	005A	25-
		EXIST-
		AC
	005B	49-
		EXIST-
		AC
	006	01
	800	01
	011	35-AC
	012A	49-
		EXIST-
		AC
	012B	35-AC
	013A	35-AC
	013B	07-
	0.405	EXIST
	013D	47
	025A	50-AC
	025B	49-
		EXIST- AC
	027	50-AC
	101	36-
	101	EXIST
	102	36-
		EXIST
	110C	43-
		EXIST
	110D	51-AC
	110E	45-
		EXIST
	111A	52-AC
	111B	53-
		EXIST-
	445	AC
	115	45- EXIST
	116 ^	17-
	116A	EXIST
	116B	20-
	טטוו	EXIST
	116C	21-
		EXIST
	117A	27-AC
L	l	

BUILDI NG	DOOR NUMBE RS	HWSE T#
	117B	33- EXIST
	118A	46- EXIST
	118B	46- EXIST
	119	12- EXIST
	120	12- EXIST
	121	04- EXIST
	123D	38- EXIST
	124A	54
	124B	54
	124C	55
	124D	55
	125A	25- EXIST- AC
	125B	05- EXIST
	125C	50-AC
	126A	49- EXIST- AC
	126B	15- EXIST
	127A	49- EXIST- AC
	127B	06
	127C	13- EXIST
	127D	49- EXIST- AC
	128	28- EXIST- AC
	129A	29- EXIST
	129B	22- EXIST
	129C	32
	129D	19- EXIST

BUILDI NG	DOOR NUMBE RS	HWSE T#
	131	01
	132	02
	133A	35-AC
	133B	26-AC
	133C	21- EXIST
	134A	34- EXIST
	134B	14- EXIST
	134C	19- EXIST
	135A	25- EXIST- AC
	135B	03
	135C	11
	135D	13- EXIST
	135E	56- EXIST- AC
	137	14- EXIST
	138A	25- EXIST- AC
	138B	57- EXIST- AC
	139	14- EXIST
	140	31- EXIST
	141A	09
	141B	08
	141C	09
	141D	08
	141E	19-
		EXIST
	141F	19- EXIST
	141G	45- EXIST
	141H	19- EXIST
	141J	08
	141K	09

	1	T
BUILDI NG	DOOR NUMBE RS	HWSE T#
		10
	141L	19- EXIST
	141M	19- EXIST
	141N	45-
	141P	EXIST
	141Q	EXIST 19-
	141R	EXIST 19-
		EXIST
	141S	19- EXIST
	141T	18- EXIST
	141U	45- EXIST
	143	35-AC
	201	24- EXIST
	202A	25- EXIST- AC
	202D	25- EXIST- AC
	204	14- EXIST
	207A	28- EXIST- AC
	207B	29- EXIST
	208A	25- EXIST- AC
	208D	25- EXIST- AC
	209	29- EXIST
	210	37- EXIST
	211A	50-AC
	211B	35-AC
	213A	35-AC
	213B	50-AC

BUILDI NG	DOOR NUMBE RS	HWSE T#
	214	28- EXIST- AC
	215A	28- EXIST- AC
	215B	14- EXIST
	301	10
	302A	08
	302B	09
	302C	58-AC
	OH15	59-RU
	OH16	59-RU
	OH19	59-RU
	OH20	59-RU

SECTION 088000 - GLAZING

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. Glass for doors, interior borrowed lites, storefront framing, glazed and curtain walls.
 - 2. Glazing sealants and accessories.

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. IBC: International Building Code.
- D. Interspace: Space between lites of an insulating-glass unit.

1.4 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review temporary protection requirements for glazing during and after installation.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: For each type of the following products; 12 inches square.
 - 1. Laminated glass.
 - 2. Insulating glass.
- C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturers of insulating-glass units with sputter-coated, low-E coatings.
- B. Product Certificates: For glass.
- C. Product Test Reports: For insulating glass, for tests performed by a qualified testing agency.
 - 1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period.
- D. Preconstruction adhesion and compatibility test report.
- E. Sample Warranties: For special warranties.

1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved and certified by coated-glass manufacturer.
- B. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F.

1.11 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

- B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.
 - Warranty Period: 5 years from date of Substantial Completion.
- C. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 **MANUFACTURERS**

- Basis-of-Design Glass Product: Subject to compliance with requirements, provide product A. indicated in glass schedules or comparable product by one of the following:
 - AGC Glass Company North America, Inc. 1.
 - 2. Berkowitz, JE, LP.
 - Cardinal Glass Industries. 3.
 - 4. Cristacurva Glass.
 - 5. Dlubak Corporation.
 - Gardner Glass Products, Inc. 6.
 - 7. General Glass International.
 - Glasswerks LA, Inc. 8.
 - 9. Glaz-Tech Industries.
 - Guardian Industries Corp. 10.
 - Hartung Glass Industries. 11.

 - Northwestern Industries, Inc. 12.
 - 13. Oldcastle BuildingEnvelope.
 - 14. Pilkington North America Inc.
 - 15. PPG Industries, Inc.
 - Saint-Gobain Corporation. 16.
 - 17. Schott North America, Inc.
 - 18. Tecnoglass S. A.
 - Trulite Glass & Aluminum Solutions. 19.
 - 20. Viracon, Inc.
- В. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.
 - 1. Obtain tinted glass from single source from single manufacturer.
 - Obtain reflective-coated glass from single source from single manufacturer. 2.

C. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the IBC and ASTM E 1300.
 - 1. Design Wind Pressures: As indicated on Drawings.
 - 2. Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.
 - a. Wind Design Data: As indicated on Drawings.
 - b. Basic Wind Speed: As indicated on Drawings.
 - c. Importance Factor: 1.0.
 - d. Exposure Category: B.
- C. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - 1. For monolithic-glass lites, properties are based on units with lites 6 mm thick.
 - 2. For laminated-glass lites, properties are based on products of construction indicated.
 - 3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - 4. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
 - 5. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - 6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
 - 2. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR A7, "Sloped Glazing Guidelines."
 - 3. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Guidelines for Sloped Glazing."

- 4. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum.
 - 1. Minimum Glass Thickness for Exterior Lites: 6 mm.
 - 2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.
- E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

A. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.

2.5 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
 - 1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
 - 2. Spacer: Manufacturer's standard spacer material and construction.

2.6 GLAZING SEALANTS

A. General:

- 1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
- 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
- B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.

- 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Dow Corning Corporation; 790.
 - b. GE Advanced Materials Silicones; SilPruf LM SCS2700.
 - c. May National Associates, Inc.; Bondaflex Sil 290.
 - d. Pecora Corporation; 890NST.
 - e. Sika Corporation U.S.; Sikasil WS-290.
 - f. Tremco Incorporated; Spectrem 1.

2.7 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
 - 1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 - 2. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
 - 1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
 - 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.9 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
- B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
- C. Grind smooth and polish exposed glass edges and corners.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep systems.
 - 3. Minimum required face and edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches.
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- J. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

3.4 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.
- G. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - 1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.

- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

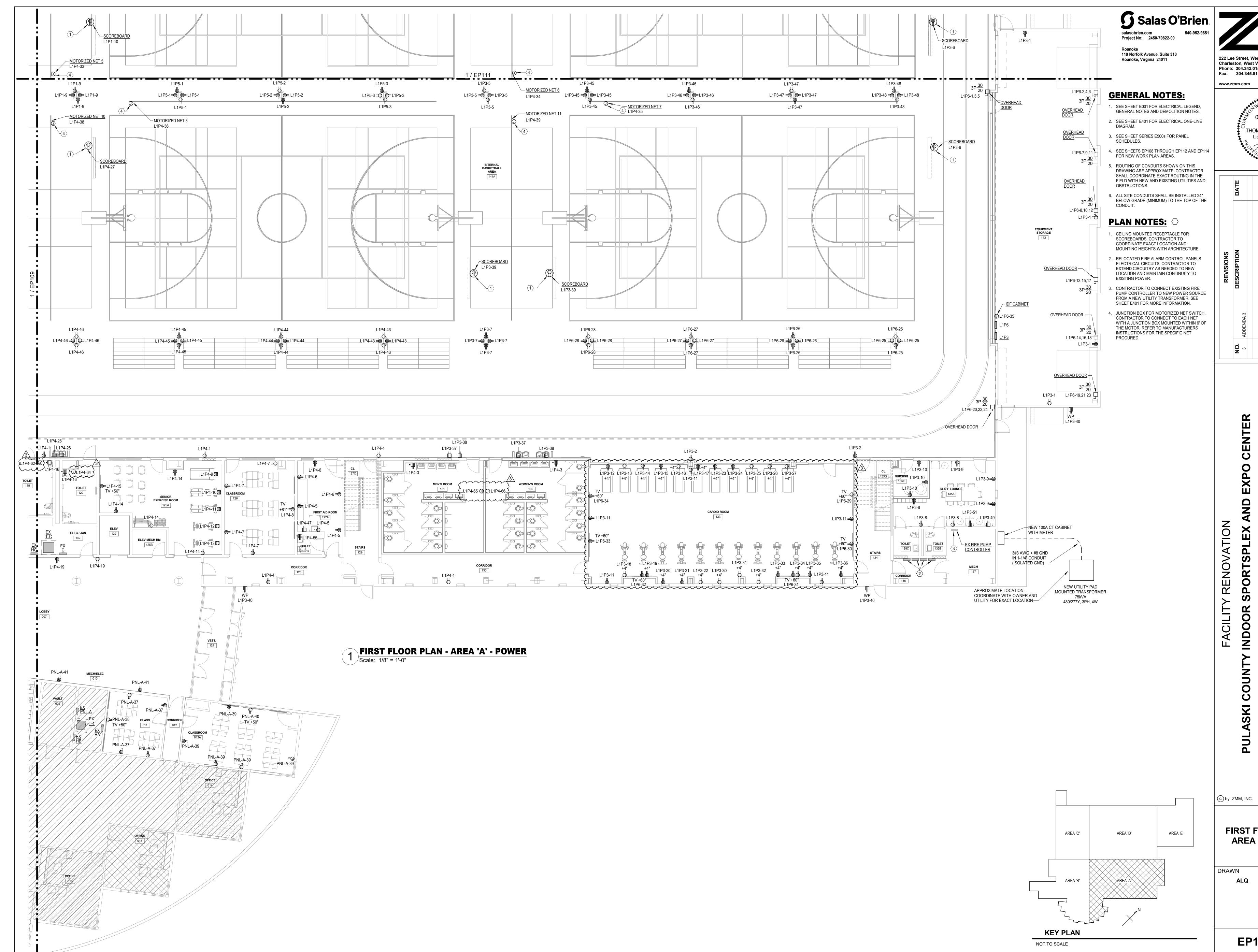
3.8 MONOLITHIC GLASS SCHEDULE

- A. Glass Type TS: Clear fully tempered float glass.
 - 1. Minimum Thickness: 6 mm.
 - 2. Safety glazing required.

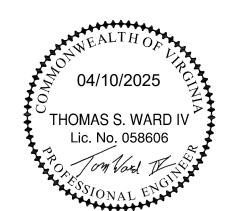
3.9 INSULATING GLASS SCHEDULE

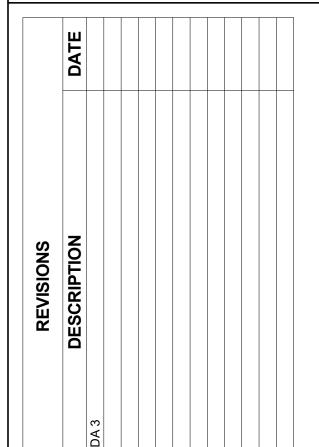
- A. Glass Type IS: Low-E-coated, tinted insulating glass.
 - 1. Basis-of-Design Product: Vitro Solarban.
 - 2. Overall Unit Thickness: 1 inch.
 - 3. Minimum Thickness of Each Glass Lite: 6 mm.
 - 4. Outdoor Lite: Heat-strengthened Fully tempered float glass.
 - 5. Interspace Content: Air.
 - 6. Indoor Lite: Heat-strengthened float glass.
 - 7. Low-E Coating: Sputtered.
 - 8. Winter Nighttime U-Factor: 0.29 maximum.
 - 9. Summer Daytime U-Factor: 0.27 maximum.
 - 10. Visible Light Transmittance: 35 percent minimum.
 - 11. Solar Heat Gain Coefficient: 0.31 maximum.
 - 12. Safety glazing required.

END OF SECTION



222 Lee Street, West Charleston, West Virginia 25302 Phone: 304.342.0159 Fax: 304.345.8144





FIRST FLOOR PLAN -**AREA 'A' - POWER** CHECKED

APR 10, 2025

COMM. NO.

EP108



salasobrien.com Project No: 2450-70822-00

Roanoke 119 Norfolk Avenue, Suite 310 Roanoke, Virginia 24011

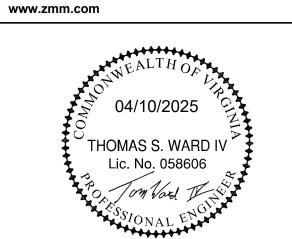
222 Lee Street, West Charleston, West Virginia 25302 Phone: 304.342.0159 Fax: 304.345.8144

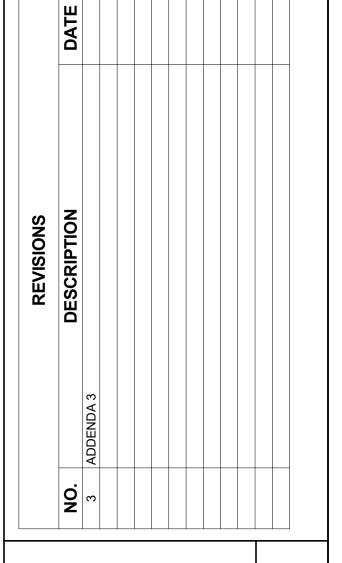
GENERAL NOTES:

- 1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND DEMOLITION NOTES.
- 2. SEE SHEET E401 FOR ELECTRICAL ONE-LINE DIAGRAM.
- 3. SEE SHEET SERIES E500s FOR PANEL SCHEDULES.
- SEE SHEETS EP108 THROUGH EP112 AND EP114 FOR NEW WORK PLAN AREAS.

PLAN NOTES: \bigcirc

- 1. NEW PANEL L1P4 TO BE INSTALLED IN EXISTING ELEC / JAN CLOSET. CONTRACTOR TO ENSURE JANITOR HANGER IS REMOVED PRIOR TO INSTALLATION AND HAVE GENERAL CONTRACTOR REMOVE AND RELOCATE AS NECESSARY.
- 2. CEILING MOUNTED RECEPTACLE FOR SCOREBOARDS. CONTRACTOR TO COORDINATE EXACT LOCATION AND
- MOUNTING HEIGHTS WITH ARCHITECTURE. 3. CONTRACTOR TO COORDINATE LOCATION OF
- CEILING RECEPTACLE AND CEILING DATA DEVICE WITH FINAL LOCATION OF PROJECTOR. 4. JUNCTION BOX FOR MOTORIZED NET SWITCH.
- CONTRACTOR TO CONNECT TO EACH NET WITH A JUNCTION BOX MOUNTED WITHIN 6' OF THE MOTOR. REFER TO MANUFACTURERS INSTRUCTION FOR THE SPECIFIC NET PROCURED.
- 5. CONTRACTOR TO COORDINATE LOCATION OF CEILING RECEPTACLE WITH FINAL LOCATION OF TV'S IN THE GOLF SIMULATOR.





FIRST FLOOR PLAN -**AREA 'B' - POWER**

DRAWN

CHECKED

COMM. NO.

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AREA 'C'

AREA 'D'

AREA 'A'

APR 10, 2025

EP109

Salas O'Brien. salasobrien.com Project No: 2450-70822-00

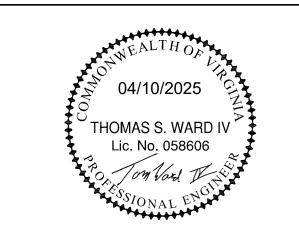
Roanoke 119 Norfolk Avenue, Suite 310 Roanoke, Virginia 24011

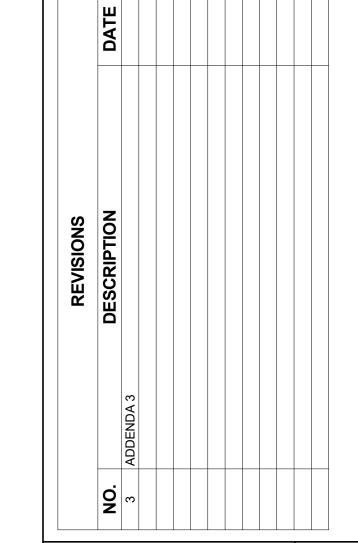


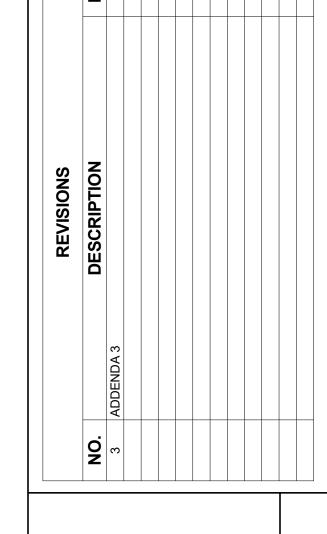
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GENERAL NOTES:

- SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL NOTES AND DEMOLITION NOTES.
- SEE SHEET E401 FOR ELECTRICAL ONE-LINE DIAGRAM.
- SEE SHEET SERIES E500s FOR PANEL SCHEDULES.
- SEE SHEETS EP108 THROUGH EP112 AND EP114 FOR NEW WORK PLAN AREAS.







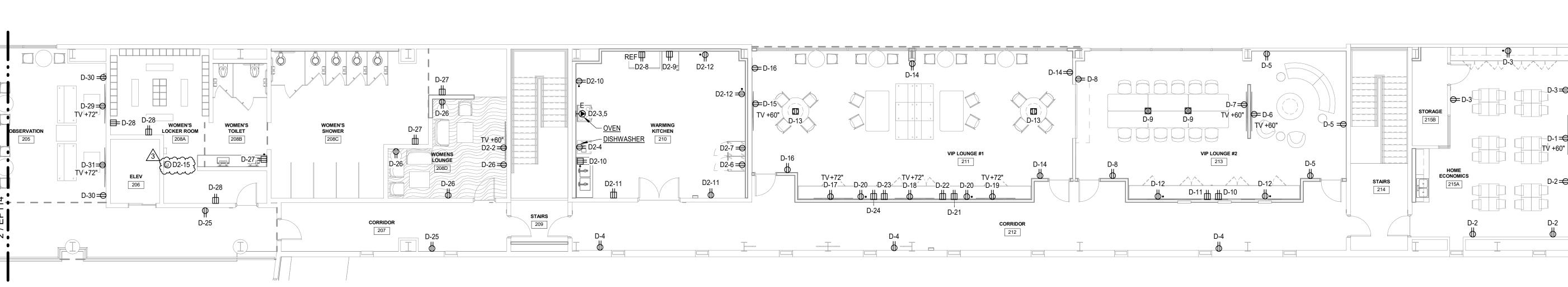
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SECOND FLOOR PLAN -AREA 'A' & 'B' - POWER

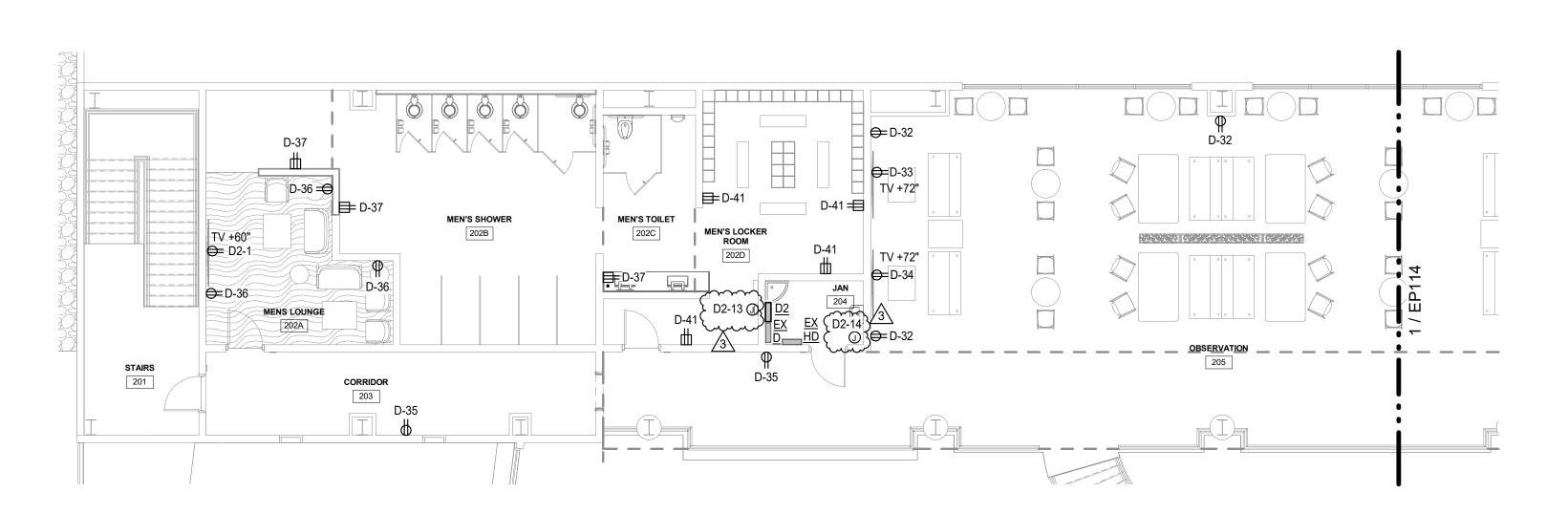
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APR 10, 2025 COMM. NO. 24060

EP114

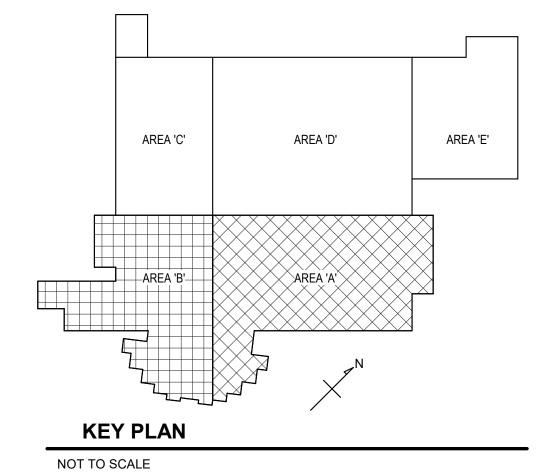


1 SECOND FLOOR PLAN - AREA 'A' - POWER Scale: 1/8" = 1'-0"



SECOND FLOOR PLAN - AREA 'B' - POWER

Scale: 1/8" = 1'-0"



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3	RECEPTACLES GYM	2#12	#12	3/4"	20			0.5 / 0.5				3/4"	#12	2#12	RECEPTAC	CLES GYM	4	
5	RECEPTACLES GYM	2#12	#12	3/4"	20				0.7 / 0.7			3/4"	#12		RECEPTAC		6	
7	RECEPTACLES GYM	2#12	#12	3/4"	20		0.7 / 0.7					3/4"	#10		RECEPTAC		8	1
	RECEPTACLES GYM	2#10	#10	3/4"	20			0.7 / 1.0				3/4"	#10	2#10	SCOREBO	ARDS GYM	10	1
	RECEPTACLES GYM	2#12	#12	3/4"	20	1			0.7 / 0.5			3/4"	#12	2#12	TV 128		12	
	RECEPTACLES 128	2#12	#12	3/4"	20	1	0.5 / 0.2					3/4"	#12	2#12	GOLF SIMU		14	
	GOLF SIMULATOR 138	2#12	#12	3/4"	20			0.2 / 0.2				3/4"	#12	2#12	GOLF SIMU		16	
	GOLF SIMULATOR 138	2#12	#12	3/4"	20	1			0.2 / 0.2			3/4"	#12	2#12	GOLF SIMU	JLATOR 138	18	
	PROJECTOR 138	2#12	#12	3/4"	20	1	0.5 / 0.5					3/4"	#12		TV 138		20	
	TV 138	2#12	#12	3/4"	20	1		0.5 / 0.5				3/4"	#12				22	
	RECEPTACLES 138	2#12	#12	3/4"	20	_			0.5 / 0.5			3/4"	#12	2#12	RECEPTAC	LES 138	24	
	TV 138	2#12	#12	3/4"	20	1	0.5 / 0.5					3/4"	#12	2#12	TV 138		26	
	TV 138	2#12	#12	3/4"	20	1		0.5 / 0.5				3/4"	#12	2#12	TV 138		28	
	TV 138	2#12	#12	3/4"	20	_			0.5 / 0.7			3/4"	#12	2#12	RECEPTAC		30	
	RECEPTACLES EXTERIOR	2#12	#12	3/4"	20	1	1.2 / 0.4					3/4"	#12	2#12		LES EXTERIOR	32	
	RECEPTACLES EXTERIOR	2#10	#10	3/4"	20			0.4 / 0.5				3/4"	#12	2#12			34	
	RECEPTACLES GYM	2#12	#12	3/4"	20				0.7 / 0.7			3/4"	#12		RECEPTAC		36	
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	RECEPTACLES GYM	2#12	#12	3/4"	20			0.7 / 0.7				3/4"	#12	2#12			40	
	RECEPTACLES GYM	2#12	#12	3/4"	20				0.7 / 0.7			3/4"	#12		RECEPTAC		42	
	RECEPTACLES GYM	2#12	#12	3/4"	20	1	0.7 / 0.7					3/4"	#12	2#12	RECEPTAC		44	
	RECEPTACLES GYM	2#12	#12	3/4"	20			0.7 / 0.7				3/4"	#12	2#12	RECEPTAC		46	
	RECEPTACLES GYM	2#12	#12	3/4"	20	_			0.7 / 0.7			3/4"	#12	2#12	RECEPTAC		48	
	RECEPTACLES GYM	2#12	#12	3/4"	20	1	0.7 / 0.7					3/4"	#12	2#12		LES GYM	50	
	RECEPTACLES GYM	2#12	#12	3/4"	20	_		0.7 / 0.0	0.0.4.0.0		0				SPARE		52	
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	L1P2	1-L	1-L	1-L	100	3		9.2 / 7.5	75/74	3 1)0	1-L	1-L	1-L	L1P5		64	
65							25.5.46.4		7.5 / 7.4								66 68	
67	L1P3	1-L	1-L	1-L	225	2	25.5 / 16.1	24.5 / 15.0		3 1	-0	1-L	1-L	1-L	L1P4		70	
71	LIPS	I-L	I-L	I-L	223	3		24.5 / 15.0	23.3 / 18.8	3 1	50	I-L	I-L	I-L	LIP4		70	
7 1				Total I			70.014./4	CE 0 1/1/A									12	
				Total L			70.2 kVA		66.6 kVA									
				Total A	_•		586 A	548 A	556 A									
Load Class	sification			Connected		<u>k</u>	Dema	nd Factor			emand				Panel	Totals		
HVAC				7.7 kV <i>A</i>	4		10	00.00%		7.7 kV	A							
Kitchen Eq	uipment			12.5 kV	A		6	5.00%		8.1 kV	Α			Total (Conn. Load:	202.5 kVA		
Motor				52.0 kV	A		10	00.00%		52.0 k\	/A			Total Es	st. Demand:	139.5 kVA		
Power				3.0 kV			+	00.00%		3.0 kV					nn. Current:			
Receptacle	•			127.3 kV				3.93%		38.7 k					nd Current:			
receptacie	5			127.3 KV	<u> </u>		5.	3.9370	,	30.7 K	'A		TOLAT ES	st. Dema	ina Carrent.	301 A		
Notes:							Abk	orevations:										
1 WIRE III	PSIZED FOR VOLTAGE DROP.						G	PROVIDE G	ECI CIDCI I	IT DDI	VNED							

		Location: S Supply From: L Mounting: S		Volts: 120/208 Wye A.I.C. Rating: 10,000 Phases: 3 Enclosure: Type 1 Wires: 4 Mains: 100A MCB Phase in kVA														
OTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR	А	В	С	i	BKR	CONDUIT	GND	WIRE	CIRCUI	T DESCRIPTION	скт	NOTE
	1	RECEPTACLES GYM	2#12	#12	3/4"	20 1	0.5/) 5		1	20	3/4"	#12	2#12	RECEPTAC	I FS GYM	2	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1		0.5 / 0.	5	1	20	3/4"	#12		RECEPTAC		4	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1			0.4 / 0.5	5 1	20	3/4"	#12		RECEPTAC		6	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1	_	1.0		1	20	3/4"	#12		SCOREBO		8	
		SCOREBOARD GYM	2#12	#12	3/4"	20 1	_	0.5 / 0.	1	1	20	3/4"	#12			LES EXTERIOR	10	
		RECEPTACLES EXTERIOR	2#12	#12	3/4"	20 1			0.4 / 0.5	5 1	20	3/4"	#12		SCOREBO		12	
		SCOREBOARD GYM	2#12	#12	3/4"	20 1		0.5		1	20	3/4"	#12			D NET 1 GYM	14	
	15	MOTORIZED NET 2 GYM	2#12	#12	3/4"	20 1		0.5 / 0.	5	1	20	3/4"	#12	2#12	MOTORIZE	D NET 3 GYM	16	
	17	MOTORIZED NET 4 GYM	2#12	#12	3/4"	20 1			0.5 / 0.7	7 1	20	3/4"	#12	2#12	RECEPTAC	LES GYM	18	
	19	RECEPTACLES GYM	2#12	#12	3/4"	20 1	0.7 /	0.7		1	20	3/4"	#12		RECEPTAC		20	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1	_	0.7 / 0.	5	1	20	3/4"	#12		RECEPTAC		22	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1			0.5 / 0.5	5 1	20	3/4"	#12		RECEPTAC		24	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1	0.5/	0.7		1	20	3/4"	#12		RECEPTAC		26	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1		0.7 / 0.	7	1	20	3/4"	#12		RECEPTAC		28	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1			0.7 / 0.7	7 1	20	3/4"	#12		RECEPTAC		30	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1	0.7/	0.7		1	20	3/4"	#12	2#12	RECEPTAC	LES GYM	32	
		RECEPTACLES GYM	2#12	#12	3/4"	20 1		0.5 / 1.)								34	
	31	ROLL UP DOOR ACTIVITY AREA 324	2#12	#12	3/4"	20 3	3 1.0 /		1.0 / 1.0	3		3/4"	#12	2#12	AREA 324	OOR ACTIVITY	36 38	
	39							1.0 / 1.		1	20	3/4"	#12	2#12	IDF CABINE	T	40	
		SPARE				20 1			0.0 / 0.0) 1	20				SPARE		42	
		SPARE				20 1	0.0 /	0.0		1	20				SPARE		44	
	45	SPARE				20 1		0.0 / 0.)	1					SPACE		46	
		SPACE				1			0.0 / 0.0) 1					SPACE		48	
		SPACE				1	0.0 / (1					SPACE		50	
	51	SPACE				1		0.0 / 0.		1					SPACE		52	
	53	SPACE				1			0.0 / 0.0) 1					SPACE		54	
					Total L	Load:	9.9 k'	/A 9.2 kV	7.5 kV	١								
					Total A	mps:	85 /	79 A	63 A									
oad C	lass	ification			Connected		_	emand Facto		imate	ed Der	mand			Panel	Totals		
/lotor					8.0 kV/			100.00%) kVA	- I a i a				Totalo		
														T. (.) C	\ I I	00.011/4		
Power					1.0 kV/			100.00%) kVA				onn. Load:			
Recept	acles	3			17.6 kV	/A		78.38%		13.	8 kVA			Total Es	t. Demand:	22.8 kVA		
													T	otal Cor	n. Current:	74 A		
													Total Es	t. Dema	nd Current:	63 A		
Notes:								Abbrevation	S:									
								G - PROVIDI	GFCI CIRC	UIT	BREA	KER						
								1-L - REFER	TO ELECT	RICAL	RISE	R DIAGRAM	1S					

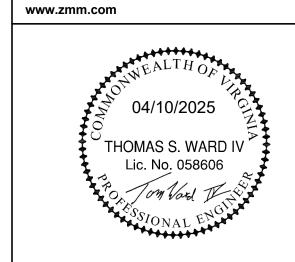
	Location: EQ Supply From: L16 Mounting: Su	P1	IT STOR	AGE 115			Ph	Volts: 120/2 ases: 3 Vires: 4 Phase in	•			A	Enclos	ng: 10,000 ure: Type 1 ins: 225A M	ICB		
NOTE CKT	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	вк	R	A	В	С	BKF	CONDU	IIT GND	WIRE	CIRCUI	T DESCRIPTION	СКТ	NOT
1	RECEPTACLES STORAGE 115	2#12	#12	3/4"	20	1	0.7 / 0.5			1 2	0 3/4"	#12	2#12	RECEPTAC	CLES GYM	2	
1 3	RECEPTACLES GYM	2#10	#10	3/4"	20	1		0.5 / 1.0		1 2		#10		SCOREBO		4	1
5	RECEPTACLES GYM	2#12	#12	3/4"	20	1			0.7 / 1.0	1 2		#12		SCOREBO		6	
7	RECEPTACLES GYM	2#12	#12	3/4"	20	1	0.7 / 0.5			1 2		#12		RECEPTAC		8	
	RECEPTACLES 135A	2#12	#12	3/4"	20	1		0.5 / 0.5		1 2		#12		RECEPTAC		10	
	RECEPTACLES 133	2#12	#12	3/4"	20	1			0.9 / 1.0	1 2		#10	2#10	TREADMILI		12	1
	TREADMILL 133	2#10	#10	3/4"	20	1	1.0 / 1.0	10/10		1 2		#10	2#10	TREADMILI		14	1
	TREADMILL 133	2#10	#10	3/4"	20	1		1.0 / 1.0	40/40	1 2		#10		TREADMILI		16	1
	TREADMILL 133	2#10	#10	3/4"	20	1	40/40		1.0 / 1.0	1 2		#10		EXERCISE		18	1
	EXERCISE BIKE 133	2#10	#10	3/4"	20	1	1.0 / 1.0	10/10		1 2		#10		EXERCISE		20	1
	EXERCISE BIKE 133 TREADMILL 133	2#10 2#10	#10 #10	3/4" 3/4"	20 20	1		1.0 / 1.0	1.0 / 1.0	1 2		#10 #10		EXERCISE TREADMILI		22	1
	TREADMILL 133	2#10	#10	3/4"	20	1	1.0 / 1.0		1.0 / 1.0	$\frac{1}{\sqrt{2}}$					- 133 - 133	24 26	1
	TREADMILE 133					- 1		1:0400	$\sim\sim$	${1}$ ${2}$		 		SPARE		28	<u>~~</u>
	SPARE	Σπ Ι Ο Ι			20	1	rrrr	W:00000			3 3/4h				BIKE 1930000		
	EXERGISE BIKE 138	~8#40~				ر أمر	11.0/101		٠٠٠ ٢١٠٥	1 2		#10		EXERCISE		32	1
	EXERCISE BIKE 133	2#10	#10	3/4"	20	1	9.00 100	1.0 / 1.0		1 2		#10		EXERCISE		34	1
	EXERCISE BIKE 133	2#10	#10	3/4"	20	1		110 / 110	1.0 / 1.0	1 2		#10		EXERCISE		36	1
	WATER FOUNTAIN GYM	2#12	#12	3/4"	20	1	0.8 / 0.8			1 2		#12			UNTAIN GYM	38	
	SCOREBOARDS GYM	2#12	#12	3/4"	20	1		1.0 / 0.5		1 2		#12			LES EXTERIOR	40	
1 41	RECEPTACLES GYM	2#10	#10	3/4"	20	1			0.5 / 0.7	1 2	3/4"	#10	2#10	RECEPTAC	LES GYM	42	1
43	RECEPTACLES GYM	2#12	#12	3/4"	20	1	0.7 / 0.7			1 2	3/4"	#12	2#12	RECEPTAC	CLES GYM	44	
45	RECEPTACLES GYM	2#12	#12	3/4"	20	1		0.7 / 0.7		1 2		#12	2#12	RECEPTAC		46	
	RECEPTACLES GYM	2#12	#12	3/4"	20	1			0.7 / 0.7	1 2	3/4"	#12	2#12	RECEPTAC	CLES GYM	48	
	ICE MACHINE 135A	2#12	#12	3/4"	20	1	1.5 / 10.4									50	
	FRIDGE 135A	2#12	#12	3/4"	20	1		1.5 / 10.4		3 10	0 1-L	1-L	1-L	L1P6		52	
53	SPARE				20	1			0.0 / 10.0							54	
				Total L	oad:		25.5 kVA	24.5 kVA	23.3 kVA								
				Total Ar	nps:		214 A	206 A	194 A								
Load Class	sification			Connected	Load		Dema	nd Factor	Estim	ated D	emand			Panel	Totals		
Kitchen Eq	uipment			3.0 kVA			65	5.00%		2.0 kV	4						
Motor	•			24.0 kV				0.00%		4.0 kV			Total (Conn. Load:	73 4 kVA		
Power				1.0 kVA				0.00%		1.0 kV				st. Demand:			
												-					
Receptacle	S			45.4 kV	4		61	1.02%		?7.7 k\	A			nn. Current:			
												Total Es	st. Dema	nd Current:	152 A		
										•		<u> </u>	·				
Notes:							Abb	revations:									
	PSIZED FOR VOLTAGE DROP.						l	PROVIDE G		T DD	ALCED						

	Location: El Supply From: L1 Mounting: St	P1	l 142			Ph	Volts: 120/2 ases: 3 Vires: 4 Phase in	·				Α.	Enclos	ng: 10,000 ire: Type 1 ns: 150A MCB		
TE CK	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR	A	В	С	В	KR	CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	СКТ	NOTE
1	RECEPTACLES GYM	2#12	#12	3/4"	20 1	0.5 / 0.4			1	20	3/4"	#12	2#12	RECEPTACLES GYM	2	
3	RECEPTACLES 131 AND 132	2#12	#12	3/4"	20 1		0.4 / 0.4		1	20	3/4"	#12		RECEPTACLES 128 AND 130	4	
5	RECEPTACLES 127A	2#12	#12	3/4"	20 1			0.5 / 0.5	1	20	3/4"	#12		RECEPTACLES 127A	6	
7	RECEPTACLES 126	2#12	#12	3/4"	20 1	0.7 / 0.5			1	20	3/4"	#12	2#12	TV 126	8	
9	TREADMILL 125A	2#12	#12	3/4"	20 1		1.0 / 1.0		1	20	3/4"	#12		ELLIPTICAL 125A	10	
11	ELLIPTICAL 125A	2#12	#12	3/4"	20 1			1.0 / 1.0	1	20	3/4"	#12		EXERCISE BIKE 125A	12	
	EXERCISE BIKE 125A	2#12	#12	3/4"	20 1	1.0 / 0.7			1	20	3/4"	#12		RECEPTACLES 125A	14	_
	TV 125A	2#12	#12	3/4"	20 1		0.5 / 0.4	11111	1	20	3/4"	#12		RECEPTACLES 119 AND 120	16	G
17	EUH-1 STAIRS 157	2#8	#8 #12	3/4"	20 1	10/05		1.1 / 1.1	1	20	3/4" 3/4"	#12		EUH-1 STAIRS 156 RECEPTACLES LOBBY 007	18	
19 21	RECEPTACLES LOBBY 007 RECEPTACLES GYM	2#12 2#12	#12	3/4"	20 1	1.0 / 0.5	0.7 / 0.5		1	20 20	3/4"	#12 #12		RECEPTACLES LOBBY 007	20	-
	RECEPTACLES GTM	2#12	#12	3/4"	20 1		0.7 / 0.5	0.5 / 0.5	1	20	3/4"	#12		RECEPTACLES LOBBY 007	24	
	WATER FOUNTAIN GYM	2#12	#12	3/4"	20 1	0.8 / 0.8		0.07 0.0	1	20	3/4"	#12		WATER FOUNTAIN GYM	26	G
27	SCOREBOARDS GYM	2#12	#12	3/4"	20 1	0.07 0.0	1.0 / 2.0		_						28	
29 31	FOOD TRUCK HOOK UP	2#10	#10	3/4"	20 2	2.0 / 1.0		2.0 / 2.0	2	20	3/4"	#10 #12	2#10 2#12	FOOD TRUCK HOOK UP RECEPTACLE EXTERIOR	30 32	
	MOTORIZED NET 5 GYM	2#10	#10	3/4"	20 1		0.5 / 0.5		1	20	3/4"	#10		MOTORIZED NET 6 GYM	34	1
35	MOTORIZED NET 7 GYM	2#10	#10	3/4"	20 1			0.5 / 0.5	1	20	3/4"	#10		MOTORIZED NET 8 GYM	36	1
37	MOTORIZED NET 9 GYM	2#10	#10	3/4"	20 1				1	20	3/4"	#10		MOTORIZED NET 10 GYM	38	1
39	MOTORIZED NET 11 GYM	2#10	#10	3/4"	20 1		0.5 / 0.7		1	20	3/4"	#12		RECEPTACLES GYM	40	
41	RECEPTACLES GYM	2#12	#12	3/4"	20 1			0.7 / 0.7	1	20	3/4"	#12		RECEPTACLES GYM	42	
_	RECEPTACLES GYM	2#12	#12	3/4"	20 1	0.7 / 0.7	07/07		1	20	3/4"	#12		RECEPTACLES GYM	44	
45		2#12	#12 #12	3/4" 3/4"	20 1		0.7 / 0.7	1.5 / 0.5	1	20	3/4" 3/4"	#12 #12		RECEPTACLES GYM TV WEIGHT ROOM 105	46 48	
	TV WEIGHT ROOM 105	2#12 2#12	#12	3/4"	20 1	0.5 / 0.5		1.5 / 0.5	1	20 20	3/4"	#12		TV WEIGHT ROOM 105	50	
51	TV WEIGHT ROOM 105	2#12	#12	3/4"	20 1	0.57 0.5	0.5 / 0.5		1	20	3/4"	#12		TV WEIGHT ROOM 105	52	
53	TV WEIGHT ROOM 105	2#12	#12	3/4"	20 1		0.07 0.0	0.5 / 0.5	1	20	3/4"	#12		RECEPTACLES LOBBY 007	54	
	RECEPTACLE TOILET 127B	2#12	#12	3/4"	20 1				1	20	3/4"	#8		EUH-1 MECH 137	56	1
57 59	BH-1 VEST. 124	2#12	#12	3/4"	20 2	~~	0.5 / 0.5	√0.5 <i>\</i> -Q.5√	2	20	3/4"	#12	2#12	BH-1 VEST. 124	58 ~60~	~~
61	BH-1 VEST 124	2#12	#12	3/4"_	20 2	0.5 / 1.0			1	20	3/4"	#12		HAND DRYER TOILET 119	62	
~~~ <del>63</del>	BH-1 VEST. 124	$\sim$	$\sim \sim \sim$	$\gamma \gamma $	$\sqrt{}$	mfm	~0:5H1\0~		1	20	3/4"	#12		HAND DRYER TOILET 120	64	
65	HAND DRYER MENS 131	2#12	#12 	3/4"	20 1	4000	wwww	1.0 /31.0	1	20	3/4"	#12		HAND DRYER WOMEN'S 132	66	
	SPARE				20 1	9.070.0	0.0 / 0.0		7	20		0.0.0	الميص	SPARE SPARE	70	سير
	SPARE				20 1		0.070.0	0.0 / 0.0	1	20				SPARE	72	
	0171112			Total L		16.1 kVA	15.0 kVA	18.8 kVA						0171112	1.2	
				Total A		136 A	125 A	158 A								
ad Clas	sification			Connected	•	4	nd Factor	Estim	ator	d Don	nand			Panel Totals		
AC				6.2 kV/			0.00%			kVA	idi id			i diloi iotalo		
	uinmont									kVA kVA			Total C	conn. Load: 49.9 kVA		
	uipment			9.5 kV/			5.00%									
tor				7.5 kV			0.00%			kVA				t. Demand: 38.2 kVA		
ceptacle	<b>2</b> S			26.6 kV	A	68	3.78%		ı8.3	kVA				n. Current: 138 A		
												rotal Es	t. Dema	nd Current: 106 A		
tes:						Abh	revations:									
	PSIZED FOR VOLTAGE DROP.					G - I	PROVIDE GI - REFER TO					IS				



Roanoke 119 Norfolk Avenue, Suite 310 Roanoke, Virginia 24011

222 Lee Street, West
Charleston, West Virginia 25302
Phone: 304.342.0159
Fax: 304.345.8144



	DATE							
40	z							
REVISIONS	DESCRIPTION							
2	DES							
		ADDENDA 3						
	NO.	3						

# PULASKI COUNTY PARKS AND RECREATION PULASKI COUNTY PARKS AND RECREATION DIRECTOR AND RECREATION

CONSTRUCTION DOCUMENTS

c) by ZMM, INC.

ELECTRCAL PANEL SCHEDULES

DRAWN **ALQ** 

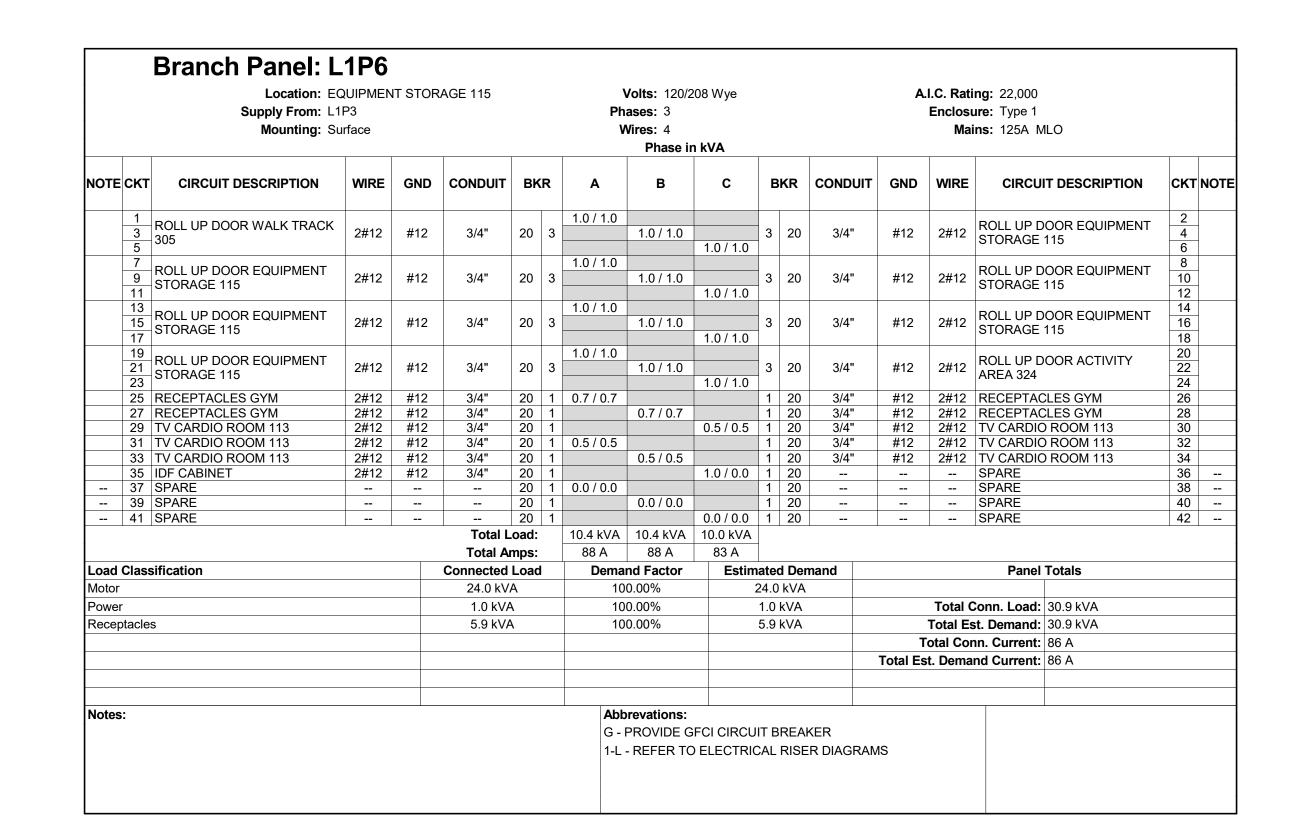
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SRL
DATE
APR 10, 2025

COMM. NO. 24060

E503

		Location: EL Supply From: L1 Mounting: Su	P1	AL 301				Ph	Volts: 120/2 ases: 3 Vires: 4 Phase in	·					Enclosi	ing: 18,000 ure: Type 1 ins: 100A M	ILO		
NOTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	ВКІ	R	A	В	С	В	BKR	CONDUIT	GND	WIRE	CIRCUI	IT DESCRIPTION	скт	NOTE
1	1	RECEPTACLES GYM	2#10	#10	3/4"	20	1	0.7 / 0.7			1	20	3/4"	#10	2#10	RECEPTAC	CLES GYM	2	1
1		RECEPTACLES GYM	2#10	#10	3/4"	20	1		0.7 / 0.7		1	20	3/4"	#10	2#10	RECEPTAC		4	1
1		RECEPTACLES GYM	2#10	#10	3/4"	20	1			0.7 / 0.7	1	20	3/4"	#10	2#10	RECEPTAC		6	1
	7	RECEPTACLES GYM	2#12	#12	3/4"	20	1	0.5 / 0.5			1	20	3/4"	#12	2#12	RECEPTAC	CLES GYM	8	
		RECEPTACLES GYM	2#12	#12	3/4"	20	1		0.5 / 0.7		1	20	3/4"	#12		RECEPTAC		10	
	11	ROLL UP DOOR GYM	2#12	#12	3/4"		3	1.0 / 1.0	1.0 / 1.0	1.0 / 1.0	3	20	3/4"	#12	2#12	ROLL UP D ROOM 172	OOR MECHANICAL	12 14 16	
	17								1.0 / 1.0	1.0 / 0.5	1	20	3/4"	#12	2#12	BATTING	AGE NET GYM	18	
	19	ROLL UP DOOR MECHANICAL	2#12	#12	3/4"	20	3	1.0 / 0.5		1.070.3	1	20	3/4"	#12	2#12	PROJECTO		20	1
	21	ROOM 172	2#12	#12	3/4	20	٦	1.0 / 0.3	1.0 / 1.0		'	20	3/4	#10	2#10	FINOSECTO	JI GTW	22	
		IDF CABINET	2#12	#12	3/4"	20	1		1.0 / 1.0	1.0 / 1.0	3	20	3/4"	#12	2#12	ROLL UP D		24	
	25	IDI CADINLI	2#12	#12	3/4			0.5 / 1.0		1.071.0	٦	20	3/4	#12	2#12	INSTITUTE	138	26	
1	27	BH-1 VESTIBULE 302	2#10	#10	3/4"	20	2	0.5 / 1.0	0.5 / 0.3									28	
		INTEGRAL CT-1 RECEPTACLE	2#12	#12	3/4"	20	1		0.57 0.5	0.2 / 0.3	2	20	3/4"	#10	2#10	BH-2 VEST	IBULE 302	30	1
		SPARE				20	1	0.0 / 0.0		0.270.0	1	20				SPARE		32	
		SPARE				20	1	0.07 0.0	0.0 / 0.0		1	20				SPARE		34	
		SPARE				20	1		0.07 0.0	0.0 / 0.0	1	20				SPARE		36	
		SPACE					1	0.0 / 0.0		0.07 0.0	1	20				SPARE		38	
		SPACE					1	0.07 0.0	0.0 / 0.0		1					SPACE		40	
		SPACE					1		0.07 0.0	0.0 / 0.0	1					SPACE		42	
	•••	017.02			Total L		•	7.5 kVA	7.5 kVA	7.4 kVA	•					OI / (OL		12	
					Total A			63 A	62 A	61 A			- 1						
	Class	sification			Connected				nd Factor	Estim			mand			Panel	Totals		
HVAC					1.5 kVA	١		10	0.00%		1.5	kVA							
Motor					12.5 kV	A		10	0.00%	,	12.5	kVA			Total C	Conn. Load:	22.3 kVA		
Power					1.0 kVA				0.00%			kVA			Total F	st. Demand:	22.3 kVA		
Recep	tacle	2			7.3 kV				0.00%			kVA				n. Current:			
veceb	iacies	<b>5</b>			1.3 KVF	`		10	0.00 /0		ı	ΝVΑ							
														iotal Es	t. Dema	nd Current:	0∠ A		
Notes	1							Abb	revations:				'						
		PSIZED FOR VOLTAGE DROP.							PROVIDE G	FCI CIRCU	IT P	BRFAI	KER						
••11	_ 01												R DIAGRAM	ıe					
								I - ⊑ .		,	// \L	····				1			

CIRCUIT DESCRIPTION  -2 ELECTRICAL ROOF  -1 ROOF  EPTACLES ROOF  MECHANICAL ROOM 172  MECHANICAL ROOM 172  -1B RECEPTACLE  -1 ACRECEPTACLE  -1 MECHANICAL ROOM 172  RE RE RE RE	2#10 2#8 2#10 2#12 2#12 2#8 2#8 2#8 2 #8 2	#10 #8 #10 #12 #12 #8 #8 #12 	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	30 20 20 20 20 20 20 20 20 20 20	2 1 1 3 1 1 1 1	1.3 / 0.2	0.4 / 0.2 0.0 / 0.2 0.2 / 0.2	1.3 / 0.4 0.5 / 0.5 0.0 / 0.2	2 1 1 1 1 1 1	20 20 20 20 20 20 20 20	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	#10 #12 #12 #12 #12 #12 #12 #10	2#12 2#12 2#12 2#12 2#12 2#12 2#10	ACC-1 VES RECEPTAC RECEPTAC RECEPTAC CP-1 MECH RTU-1F RE	CLES ROOF CLES ROOF HANICAL ROOM 172	2 4 6 8 10 12	<b>1</b>
-1 ROOF EPTACLES ROOF MECHANICAL ROOM 172 MECHANICAL ROOM 172 -1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE RE	2#8 2#10 2#12 2#12 2#8 2#8 2#8 2 2#12	#8 #10 #12 #12 #8 #8 #12 	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 	20 20 20 20 20 20 20 20 20 20	2 1 1 3 1 1 1 1	1.3 / 0.2	0.4 / 0.2	0.5 / 0.5	2 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20	3/4" 3/4" 3/4" 3/4" 3/4"	#12 #12 #12 #12 #12 #10	2#12 2#12 2#12 2#12 2#12 2#12 2#10	RECEPTAC RECEPTAC RECEPTAC CP-1 MECH RTU-1F RE	CLES ROOF CLES ROOF CLES ROOF HANICAL ROOM 172	4 6 8 10 12	1
EPTACLES ROOF MECHANICAL ROOM 172  MECHANICAL ROOM 172  -1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE RE RE	2#10 2#12 2#12 2#8 2#8 2 2#12  	#10 #12 #12 #8 #8 #12 	3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	20 20 20 20 20 20 20 20 20	1 1 3 1 1 1	1.0 / 0.2	0.4 / 0.2	0.5 / 0.5	1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20	3/4" 3/4" 3/4" 3/4"	#12 #12 #12 #12 #10	2#12 2#12 2#12 2#12 2#10	RECEPTAC RECEPTAC CP-1 MECH RTU-1F RE	CLES ROOF CLES ROOF HANICAL ROOM 172	6 8 10 12	
EPTACLES ROOF MECHANICAL ROOM 172  MECHANICAL ROOM 172  -1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE RE RE	2#12 2#12 2#8 2#8 2 2#12  	#12 #12 #8 #8 #12 	3/4" 3/4" 3/4" 3/4" 3/4"	20 20 20 20 20 20 20 20 20	1 1 3 1 1 1	1.0 / 0.2	0.0 / 0.2		1 1 1 1 1 1 1	20 20 20 20	3/4" 3/4" 3/4"	#12 #12 #12 #10	2#12 2#12 2#12 2#10	RECEPTAC CP-1 MECH RTU-1F RE	CLES ROOF HANICAL ROOM 172	10 12	
MECHANICAL ROOM 172  MECHANICAL ROOM 172  -1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172  RE RE RE RE RE	2#12 2#12 2#8 2#8 2 2#12  	#12 #12 #8 #8 #12 	3/4" 3/4" 3/4" 3/4" 3/4"	20 20 20 20 20 20 20	3 1 1 1	1.0 / 0.2	0.0 / 0.2		1 1 1 1 1 1	20 20 20	3/4" 3/4"	#12 #12 #10	2#12 2#12 2#10	CP-1 MECH RTU-1F RE	HANICAL ROOM 172	12	
MECHANICAL ROOM 172  -1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE RE	2#12 2#8 2#8 2 2#12  	#12 #8 #8 #12 	3/4" 3/4" 3/4" 3/4" 	20 20 20 20 20 20	3 1 1 1	0.2 / 0.2			1 1 1	20 20	3/4"	#12 #10	2#12 2#10	RTU-1F RE			
-1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE	2#8 2#8 2 2#12  	#8 #8 #12 	3/4" 3/4" 3/4" 	20 20 20 20 20	1 1 1	0.2 / 0.2		0.0 / 0.2	1 1 1	20		#10	2#10		CEPTACLE	144	
-1B RECEPTACLE -1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE	2#8 2#8 2 2#12  	#8 #8 #12 	3/4" 3/4" 3/4" 	20 20 20 20 20	1 1 1	0.2 / 0.2		0.0 / 0.2	1		3/4				CEPTACLE	14	
-1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE	2#8 2 2#12   	#8 #12  	3/4" 3/4" 	20 20 20	1		0.2 / 0.2	0.070.2	1	20	3/4"	#10	2#10	ERV-1 REC		16	1
-1ACRECEPTACLE -1 MECHANICAL ROOM 172 RE RE RE RE	2#8 2 2#12   	#8 #12  	3/4" 3/4" 	20 20 20	1		0.2 / 0.2			20	3/4"	#10		RTU-1D RE		18 20	1
-1 MECHANICAL ROOM 172 RE RE RE RE	2 2#12	#12  	3/4"	20	1		0.2 / 0.2		1	20	3/4"	#10		RTU-1D RE		22	1
RE RE RE				20	_			0.8 / 1.8	1	20	3/4"	#10		BOILER PU		24	
RE RE RE					1			0.0 / 1.0	1	20	3/4"	#12		BOILER PU		26	-
RE RE				20	1	_	0.0 / 0.0		1	20	3/4	#12	2#12	SPARE	JIVIP 172	28	
RE				20	1		0.07 0.0	0.0 / 0.0	1	20				SPARE		30	
				20	1	_		0.070.0	1	20			 	SPARE		32	
· <b>-</b>					1		0.0 / 0.0		1	20			 	SPARE		34	
CE CE				<del> </del>	1		0.0 / 0.0	0.0 / 0.0	1				 	SPACE		36	
CE				<del> </del>	1			0.070.0	1					SPACE		38	
CE				+	1		0.0 / 0.0		1				 	SPACE		40	
CE		<del></del>		+	1		0.07 0.0	0.0 / 0.0	1		<del></del>		<del></del>	SPACE		40	
<u> </u>			Total L			8.1 kVA	4.4 kVA	5.4 kVA						SPACE		44	
									1								
			Total A			69 A	37 A	46 A									
tion					d						nand			Panel	Totals		
			14.6 kV	/A		10	0.00%	1	14.6	kVA							
			3.3 kV/	Α		10	0.00%		3.3	kVA			Total C	Conn. Load:	18.0 kVA		
						+							Total Es	st. Demand:	18.0 kVA		
						+											
						+			—								
		$\overline{}$										lotai Es	t. Dema	na Current:	50 A		
						Abl	revations:										
D FOR VOLTAGE DROP								SECL CIRCU	IT B	REAL	√FR						
BTON VOLIMOL BROT.												10					
	O FOR VOLTAGE DROP.			14.6 kV 3.3 kV	14.6 kVA 3.3 kVA	14.6 kVA 3.3 kVA	14.6 kVA 10 3.3 kVA 10  Property of the state of the stat	14.6 kVA 100.00%  3.3 kVA 100.00%  Abbrevations: G - PROVIDE G	14.6 kVA 100.00% 1 3.3 kVA 100.00%  Abbrevations: G - PROVIDE GFCI CIRCUI	14.6 kVA 100.00% 14.6 3.3 kVA 100.00% 3.3  Abbrevations: G - PROVIDE GFCI CIRCUIT B	14.6 kVA 3.3 kVA 100.00% 14.6 kVA 100.00% 3.3 kVA  Abbrevations: G - PROVIDE GFCI CIRCUIT BREAK	14.6 kVA 3.3 kVA 100.00% 14.6 kVA 3.3 kVA 100.00% 3.3 kVA  Abbrevations: G - PROVIDE GFCI CIRCUIT BREAKER	14.6 kVA 3.3 kVA 100.00% 14.6 kVA  Total Es	14.6 kVA	14.6 kVA	14.6 kVA	14.6 kVA 100.00% 14.6 kVA 100.00% 3.3 kVA 100.00% 3.3 kVA Total Conn. Load: 18.0 kVA Total Conn. Current: 50 A Total Est. Demand Current: 50 A  Abbrevations: G - PROVIDE GFCI CIRCUIT BREAKER



		Location: JAI Supply From: D Mounting: Sui						Ph	Volts: 120/2 ases: 3 Vires: 4 Phase ir	•					Enclosu	ng: 22,000 ure: Type 1 ins: 100A N	ИLO		
NOTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	вк	R	Α	В	С	ВИ	(R	CONDUIT	GND	WIRE	CIRCU	IT DESCRIPTION	СКТ	NOTI
	1	TV MENS LOUNGE 202A	2#12	#12	3/4"	20	1	0.5 / 0.5				20	3/4"	#12			NS LOUNGE 208D	2	
	3	RANGE KITCHEN 210	2#8	#10	3/4"	50	2		4.0 / 1.8			20	3/4"	#12			HER KITCHEN 210	4	G
	5							45/45		4.0 / 1.5		20	3/4"	#12			CABINETS 210	6	
		WARMING CABINETS 210 ICE MACHINE KITCHEN 210	2#12 2#12	#12 #12	3/4" 3/4'	20	1	1.5 / 1.5	1.5 / 0.4			20 20	3/4" 3/4"	#12 #12		FRIDGE KI	CLES KITCHEN 210	8	G
~~~		REGERTACLES KITCHEN 216						~~~	1.57 0.4	0.4 / 0.4		20	3/4"	#12			CLES KITCHEN 210	12	
		HAND DRYER MENS 202D	2#12	#12	3/4"	20	1	1.0 / 1.0		}		20	3/4"	#12		IDF CABIN		14	
		HAND DRYER WOMEN'S 208A	2#12	#12	3/4"	20	1		1.0 / 0.0	₹	1	20				SPARE		16	
سيب	47	SPARE	سيس	W.		_	1		mm		1	20				SPARE		18	
					Total L	.oad:		6.0 kVA	8.7 kVA	6.2 kVA									
					Total A	mps:		50 A	72 A	52 A									
Load	Class	sification			Connected	Load		Dema	nd Factor	Estim	ated	Den	nand			Panel	Totals		
Kitche	n Equ	uipment			15.8 kV	A		65	5.00%	•	10.3	kVA							
Motor					2.0 kV	4		10	0.00%		2.0 k	ΧVA			Total C	Conn. Load:	20.9 kVA		
Power	-				1.0 kV	١		10	0.00%		1.0 k	VΑ			Total Es	st. Demand:	15.4 kVA		
Recep	tacle	S			2.1 kVA	١		10	0.00%		2.1 k	VΑ		Т	otal Cor	n. Current:	58 A		
														Total Es	t. Dema	nd Current:	43 A		
Notes	:							G - I	prevations: PROVIDE G - REFER TO				KER R DIAGRAM	IS					

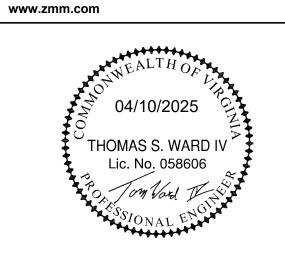
	Location: ME Supply From: Mounting: Sui		C 010	T	I		Ph	Volts: 277/4 ases: 3 Vires: 4 Phase in	·				A.		ng: EX ure: Type 1 ins: 225A MLO		
NOTECKT	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	вк	R	A	В	С	В	BKR	CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	СКТ	NOT
1	EX EMERGENCY NIGHT LIGHT				20	1	0.0 / 0.0			1	20				EX EMERGENCY NIGHT LIGHT	2	
	EX LIGHTING				20	1		0.0 / 0.0		1	20				EX LIGHTING	4	
5	EX LIGHTING				20	1			0.0 / 0.0	1	20				EX LIGHTING	6	
7	EX LIGHTING				20	1	0.0 / 0.0			1	20				EX LIGHTING	8	
1 9	REPLACED WSHP-1	2#12	#12	3/4"	20	1		4.2 / 0.0		1	20				EX LIGHTING	10	
11	SPARE		-		20	1			0.0 / 3.8	1	20	3/4"	#12	2#12	REPLACED WSHP-2,3	12	1
13	SPARE				20	1	0.0 / 4.2			1	20	3/4"	#12	2#12	REPLACED WSHP-12,13	14	1
1 15	REPLACED WSHP-6	2#12	#12	3/4"	20	1		4.2 / 1.6		1	20	3/4"	#12		REPLACED WSHP-4	16	1
17	SPARE				20	1			0.0 / 4.2	1	20	3/4"	#12	2#12	REPLACED WSHP-5, 14	18	1
19	SPARE				20	1	0.0 / 4.2			1	20	3/4"	#12		REPLACED WSHP-7, 15	20	1
1 21	REPLACED WSHP-11	2#12	#12	3/4"	20	1		2.7 / 4.3		1	25	3/4"	#12		REPLACED WSHP-8, 9	22	N
1 23	REPLACED WSHP-10	2#12	#12	3/4"	20	1			2.2 / 4.2	1	20	3/4"	#12		REPLACED WSHP-16, 17	24	
	REPLACED WSHP-18,19	2#12	#12	3/4"	20	1	3.6 / 2.7			1	20	3/4"	#12		REPLACED WSHP-20	26	1
	REPLACED WSHP-21	2#12	#12	3/4"	20	1		1.8 / 0.0		1	20				SPARE	28	_
N 29	REPLACED WSHP-31	2#12	#12	3/4"	25	1			4.8 / 4.8	1	30	3/4"	#10	2#10	REPLACED WSHP-32	30	1
N 31	LOBBY LIGHTING	2#12	#12	3/4"	20	1	2.6 / 0.0			1	20				SPARE	32	_
33	SPARE				20	1		0.0 / 0.0		1	20				SPARE	34	_
35	SPARE				20	1			0.0 / 0.0	1	20				SPARE	36	-
37	SPARE				20	1	0.0 / 0.0			1					SPACE	38	-
39	SPACE					1		0.0 / 0.0		1					SPACE	40	
	SPACE					1			0.0 / 0.0	1					SPACE	42	
				Total L	oad:		17.2 kVA	18.9 kVA	23.9 kVA								
				Total A			62 A	69 A	87 A								
Load Class	sification			Connected			I,	nd Factor	Estim	ate	d Der	mand			Panel Totals		
HVAC				57.4 kV				0.00%			kVA				1 3.1.0. 1 3.3.0		
Lighting				2.6 kV				5.00%			kVA			Total C	Conn. Load: 60.0 kVA		
Ligituig				2.0 1(1)	•		12	0.0070		O. <u>_</u>					st. Demand: 60.7 kVA		
													т		nn. Current: 72 A		
															nd Current: 73 A		
													TOtal Es	it. Deilla	nd Garrent. 13 A		
Natar.																	
Notes:								revations:									
	UITS INDICATED IN BOLD. ONLY							PROVIDE G	FCI CIRCU	IT E	BREAL	KER					
1. REPLAC	ED UNIT ON EXISTING BREAKER	N HTIW S	VEW CO	NDUIT AND	CIRC	UIT	RY 🗓 .	DEEED TO			DIO -	R DIAGRAM					



Roanoke 119 Norfolk Avenue, Suite 310 Roanoke, Virginia 24011



Fax: 304.345.8144



SPORTSPLEX AND EXPO CEN PARKS AND RECREATION JBLIN, VA

DUBLIN,

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ASKI COUNTY INDOOR

ELECTRICAL PANEL SCHEDULES

DRAWN **ALQ**

DATE
APR 10, 2025
COMM. NO.

CHECKED

E504



		Location: ELE Supply From: HK Mounting: Sur		l 142				Pha	/olts: 277/4 ases: 3 Vires: 4 Phase ir	·				A.	Enclos	ng: EX ure: Type 1 ins: 100A M	iLO		
NOTE	кт	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKF	₹	Α	В	С	Е	BKR	CONDUIT	GND	WIRE	CIRCU	IT DESCRIPTION	СКТ	NOTE
	1	EX EM NIGHT LIGHTS				20	1	0.0 / 0.0			1	20				EX EM NIG	HT LIGHTS	2	
		EX VALANCE LIGHTS					1	0.0 / 0.0	0.0 / 0.0		1	20					OUTSIDE DOOR	4	
		EX LIGHTS					1		0.07 0.0	0.0 / 0.0	1	20				EX LIGHTS		6	
		EX LIGHTS					1	0.0 / 0.0			1	20				EX LIGHTS		8	
1		REPLACED WSHP-33	2#12	#12	3/4"		1		2.2 / 4.0		1	20	3/4"	#12	2#12		WSHP-24, 25	10	1
1	11	REPLACED WSHP-22,23	2#12	#12	3/4"	20	1			4.0 / 2.2	1	20	3/4"	#12	2#12	REPLACED	WSHP-34	12	1
		REPLACED WSHP-27, 28	2#12	#12	3/4"		1	3.8 / 4.0			1	20	3/4"	#12			WSHP-26, 30	14	1
		EX OD LIGHTS					1		0.0 / 0.0		1	20				EX OD LIGI		16	
	17	EX OD LIGHTS					1			0.0 / 0.0	1	20				EX OD LIGI	HTS	18	
N	19	FIRST FLOOR LIGHTING	2#12	#12	3/4"	20	1	0.3 / 0.0			1	20				EX OD LIGI	HTS	20	
N	21	FIRST FLOOR LIGHTING	2#12	#12	3/4"	20	1		1.7 / 0.0		1	20				EX OD LIGI	HTS	22	
N	23	FIRST FLOOR LIGHTING	2#12	#12	3/4"	20	1			1.0 / 0.0	1	20				SPARE		24	
N	25	WSHP-51 STAFF LOUNGE 173	2#12	#12	3/4"	20	1	2.2 / 4.0			1	20	3/4"	#12	2#12	WSHP-50 C	CARDIO ROOM 113	26	N
N	27	WSHP-47 WOMEN'S ROOM 318	2#12	#12	3/4"	20	1		1.5 / 1.8		1	20	3/4"	#12	2#12	WSHP-48 C	ORRIDOR 130	28	N
N	29	WSHP-29 FIRST AID ROOM 114	2#12	#12	3/4"	20	1			1.8 / 2.0	1	20	3/4"	#12	2#12	WSHP-35 V	VEIGHT ROOM 117A	30	N
					Total L	oad:		14.2 kVA	11.2 kVA	11.0 kVA									
	29 WSHP-29 FIRST AID ROOM 114 2#12 #12 3/4" 20 1 1.8 / 2.0 1 20 3/4" #12 2#12 WSHP-35 WEIGHT ROOM 117A 30																		
oad C	lass	sification					Demai	nd Factor	Fstim	ate	d Den	nand			Panel	Totals			
HVAC		, induition			33.4 kV				0.00%			1 kVA	laria			1 41101	lotaio		
															Tatal		00.41374		
Lighting	ļ				3.0 kVA	4		12:	5.00%		3.7	kVA				Conn. Load:			
																st. Demand:			
														Т	otal Co	nn. Current:	44 A		
														Total Es	t. Dema	nd Current:	45 A		
Notes:									revations:										
		K SHOWN IN BOLD. ONLY NEW L							PROVIDE G	FCI CIRCU	IT E	BREAK	KER						
I RFPI	AC.	ED UNIT ON EXISTING BREAKER	WITH N	IEW CO	NDUIT AND	CIRCU	JITE	RY I	DEEED TO	CLECTOIC	.	DICE	R DIAGRAM	C					

		Location: EL Supply From: Mounting: Su		l 142				Ph	Volts: 277/4 ases: 3 Vires: 4 Phase i	·			A.	Enclos	ing: EX ure: Type 1 ins: 400A M	СВ	
NOTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	ВК	(R	A	В	С	BKR	CONDUIT	GND	WIRE	CIRCUI	T DESCRIPTION	CKT NO
	1 3 5	X HC	EX	EX	EX	100	3	14.2 / 30.4	11.2 / 25.9	11.0 / 17.5	3 100	EX	EX	EX	EX HD		2 4 1, 1
N	7 9 11	SHP-49 CARDIO ROOM 133	3#12	#12	3/4"	20	3	4.1 / 0.0	4.1 / 0.0	4.1 / 0.0	3 100				SPARE		8 10 12
	17	X CIRCUIT UNKNOWN				125	3	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	3 20				SPARE		14 16 18
	19 SF						1	0.0 / 0.0			1				SPACE		20
	21 SF						1		0.0 / 0.0	0.0100	1				SPACE		22
	23 SF 25 SF						1	0.0 / 0.0		0.0 / 0.0	1				SPACE SPACE		24 26
	27 SF					+	1	0.070.0	0.0 / 0.0		1				SPACE		28
	29 SF						1		0.07 0.0	0.0 / 0.0	1				SPACE		30
					Total	Load:		48.6 kVA	41.2 kVA	32.5 kVA		-			1		
					Total A	mps:		180 A	154 A	117 A							
Load	Classifi	cation			Connected	Load	ı	Dema	nd Factor	Estin	nated De	mand			Panel ¹	Totals	
HVAC					115.2 k	VA		10	0.00%		115.2 kV	Α .					
Lightir	g				7.2 kV	Α		12	5.00%		9.0 kVA			Total (Conn. Load:	122.4 kVA	
	_													Total E	st. Demand:	124.2 kVA	
													Т	otal Co	nn. Current:	147 A	
													Total Es	t. Dema	nd Current:	149 A	
	WORK S	SHOWN IN BOLD. ONLY NEW AKER 100% RATED.	LOADS A	ARE SHO	OWN IN PAN	NEL TO	ATC	LS. G - I 1-L	PROVIDE OF REFER TO PROVIDE N) ELECTRI	CAL RISE	ER DIAGRAM	1S				

		Location: JAN Supply From: Mounting: RE)				P	Volts: 120/2 hases: 3 Wires: 4 Phase in	•		1	A.		ng: EX Ire: Type 1 ns: 150A M	СВ			
OTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKI	R	Α	В	С	BKR	CONDUIT	GND	WIRE	CIRCU	T DESCR	IPTION	СКТ	NOTE
	1	EX RECEPT RM 141				20	1	0.0 / 0.0			1 20				EX RECEP	Γ RM 141		2	
		EX RECEPT RM 141				20	1		0.0 / 0.0		1 20				EX RECEP			4	
	5	EX RECEPT RM 140				20	1			0.0 / 0.0	1 20				EX RECEP	Γ RM 156		6	
	7	EX RECEPT RM 138, 139				20	1	0.0 / 0.0			1 20				EX RECEP	Γ RM 156		8	
		EX EWC				20	1		0.0 / 0.0		1 20				EX RECEP	Γ RM 152		10	
		EX RECEPT RM 137					1			0.0 / 0.0	1 20				EX RECEP			12	
		EX RECEPT RM 137				20	1	0.0 / 0.0			1 20				EX SIGN &		RM 161	14	
	15	EX RECEPT RM 155				20	1		0.0 / 0.0		1 20				EX RECEP	Γ RM 161		16	
		EX RECEPT RM 151				20	1			0.0 / 0.0	1 20				EX RECEP			18	
	19	EX COPIER RM 152				20	1	0.0 / 0.0			1 20				EX CONF F	M DOWN	LIGHTS	20	
	21	EX LIGHTING				20	1		0.0 / 0.0		2 40				CVMATED	LICATED		22	
	23	EX RECEPT	1			20	1			0.0 / 0.0	2 40				EX WATER	HEATER		24	
	25	EX COFFEE MAKER & TIME				20	1	0.0 / 0.0			1 20				EX CIRCUI	T UNKNO	ΝN	26	
	27	EX CIRCUIT UNKNOWN				20	1		0.0 / 0.0		1 20				EX CIRCUI	T UNKNO\	ΝN	28	
	29	EX CIRCUIT UNKNOWN				20	1			0.0 / 1.0	1 20	3/4"	#12	2#12	RECEPTAC	LE IT 005	БВ	30	Ν
N	31	RECEPTACLE IT 005B	2#12	#12	3/4"	20	1	1.0 / 0.4			1 20	3/4"	#12	2#12	RECEPTAC	LES IT 00)5B	32	Ν
	33	DOLL LIP DOOD CONCESSION							1.0 / 0.8		1 20	3/4"	#12	2#12	RECEPTAC	LES STO	RE 121	34	N
N	35	ROLL UP DOOR CONCESSION STORE 121	2#12	#12	3/4"	20	3			1.0 / 0.4	1 20	3/4"	#12	2#12	RECEPTAC	LES STO	RE 121	36	N
	37	310KE 121						1.0 / 0.4			1 20	3/4"	#12	2#12	RECEPTAC	LES STO	RE 121	38	N
i, N	√3 9 √	FRIDGE STORE 124	~2#12~	~# 12 ~	~3/A"~	~20~	4	$\sim\sim$	1.2/25	$\sim\sim$	1,20	3/4"~~	~#1 2 ~	~2#1,2~	RECEPTAG	LES-LOB	BX,007~	40,	γWγ
Ν	41	HAND DRYER W.TOILET 006	2#12	#12	3/4"	20	1			1.0 / 1.0	1 20	3/4"	#12		HAND DRY			42	Ν
ىر	w				~~~rotar1	oad:	\sim	~2.7KVX\	~3.3 KVA~	~4:4 ` kVA~	\cdots								
					Total A	mps:		23 A	28 A	37 A									
oad	Class	sification			Connected	•		Dema	and Factor	Estim	ated De	mand			Panel	Totals			
(itche	n Equ	uipment			1.0 kV	Ą		6	5.00%		0.7 kVA								
1otor					5.0 kV	A		1	00.00%		5.0 kVA			Total C	onn. Load:	10.4 kVA			
Recep	tacle	8			4.4 kV				00.00%		4.4 kVA				t. Demand:				
СССР	lacic				7.7 KV				00.0070		T.T KV/								
															nn. Current:				
													Total Es	t. Dema	nd Current:	28 A			
lotes								Δh	brevations:										
		K SHOWN IN DOLD ONLY MENT	OVDE	ADE CLIC	7/4/NI INI DAN		тлі		PROVIDE G	ECI CIBCU	IT DDE ^	KED							
N⊏ VV	NUK	K SHOWN IN BOLD. ONLY NEW L	TOADS A	AKE SHC	JVVIN IN PAN	IEL IU	'I AL						_						
									REFER TO				IS						
								NI.	PROVIDE N	EW CIDCLII	TDDEA	VED			1				

		Location: JAN Supply From: HK Mounting: Sur				I	Ph	Volts: 277/4 ases: 3 Vires: 4 Phase in	·					Enclos	ng: EX ure: Type 1 ins: 100A M	/ILO	1 1	
NOTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR	A	В	С	E	BKR	CONDUIT	GND	WIRE	CIRCU	IT DESCRIPTION	СКТ	NOTE
	1	EX EMERG NIGHT LIGHTS				20 1	0.0 / 0.0			1	20				EX LIGHTIN	NG	2	
		EX LIGHTING				20 1		0.0 / 0.0		1	20				EX LIGHTIN		4	
		EX VALANCE LIGHTING				20 1			0.0 / 0.0	1	20				EX SPARE		6	
1	7	REPLACED WSHP-36	2#12	#12	3/4"	20 1	2.0 / 4.8			1	30	3/4"	#10	2#10	REPLACED	WSHP-37	8	1
1	9	REPLACED WSHP-40	2#12	#12	3/4"	30 1		4.8 / 4.8		1	30	3/4"	#10		REPLACED		10	1
1	11	REPLACED WSHP-41, 45	2#12	#12	3/4"	20 1			4.3 / 4.8	1	30	3/4"	#10	2#10	REPLACED	WSHP-39	12	1
1	13	REPLACED WSHP-42, 46	2#12	#12	3/4"	20 1	4.3 / 4.8			1	30	3/4"	#10	2#10	REPLACED	WSHP-44	14	N
N	15	REPLACED WSHP-43	2#12	#12	3/4"	25 1		4.8 / 2.4		1	20	3/4"	#12	2#12	LIGHTING	SECOND FLOOR	16	N
N		LIGHTING SECOND FLOOR	2#12	#12	3/4"	20 1			1.4 / 0.4	1	20	3/4"	#12			SECOND FLOOR	18	N
N		WSHP-59 MENS LOUNGE 202A	2#10	#10	3/4"	30 1	4.8 / 4.8			1	30	3/4"	#10			WOMENS 208D	20	Ν
N		WSHP-52 KITCHEN 210	2#10	#10	3/4"	30 1		4.4 / 4.7		1	30	3/4"	#10	2#10		VIP LOUNGE #1 237	22	Ν
N		WSHP-54 CORRIDR 212	2#12	#12	3/4"	20 1			2.2 / 4.4	1	30	3/4"	#10	2#10	WSHP-55 \	/IP LOUNGE #2 238	24	N
N		WSHP-56 HOME EC. 240	2#10	#10	3/4"	30 1	4.8 / 0.0			1	20				SPARE		26	
		SPARE				20 1		0.0 / 0.0		1	20				SPARE		28	
	29	SPARE				20 1			0.0 / 0.0	1	20				SPARE		30	
					Total L	.oad:	30.4 kVA	25.9 kVA	17.5 kVA									
					Total A	mps:	114 A	98 A	63 A									
oad (Class	sification			Connected	•	1,	nd Factor	Estim	ate	d Der	mand			Panel	Totals		
HVAC					69.6 kV	A	10	0.00%	(69.6	6 kVA							
ightin	g				4.2 kVA	4	12	5.00%		5.3	kVA			Total 0	Conn. Load:	73.8 kVA		
														Total Es	st. Demand:	74.9 kVA		
															nn. Current:			
															nd Current:			
lotes							Ahh	revations:	L							1		
		K INDICATED IN BOLD. ONLY NE	\\\	S VDE S		ANEL T			ECI CIDCU	IT G		KED						
		IK INDICATED IN BOLD. ONLY NE ED UNIT ON EXISTING BREAKER					DV	- REFER TO										

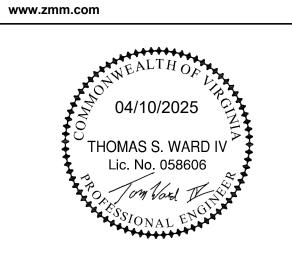
		Location: MI Supply From: Mounting: RI				T		Ph	Volts: 120/2 ases: 3 Vires: 4 Phase in	·				A.	Enclos	ing: EX ure: Type 1 ins: 150A MCB		
OTE	СКТ	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	ВКІ	R	Α	В	С	E	KR	CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	скт	NOTE
	1	EX RECEPT RM 153				20	1	0.0 / 0.0			1	20				EX RECEPT RM 145, 136	2	
		EX RECEPT RM 149				20	1	0.07 0.0	0.0 / 0.0		1	20				EX RECEPT RM 158	4	
		EX RECEPT RM 153, 162				20	1		0.07 0.0	0.0 / 0.0	1	20				EX RECEPT RM 158	6	
		EX FLOOR RECEPT RM 153				20	1	0.0 / 0.0		3.0 , 3.0	1	20				EX RECEPT RM 150	8	
		EX FLOOR RECEPT RM 153				20	1	0.07 0.0	0.0 / 0.0		1	20				EX RECEPT RM 150	10	
		EX RECEPT 154				20	1		111, 010	0.0 / 0.0	1	20				EX RECEPT RM 163	12	
		EX COPIER RM 153					<u>.</u>	0.0 / 0.0		5.5 / 5.5	1	20				EX RECEPT RM 163	14	
		EX RECEPT RM 159				20	1	0.07 0.0	0.0 / 0.0		1	20				EX RECEPT RM 164	16	
		EX LIGHTING				20	1		0.07 0.0	0.0 / 0.0	1	20				EX EWC	18	
		EX LIGHTING				20	1	0.0 / 0.0		0.07 0.0	1	20				EX AUTO DOORS	20	
		EX LIGHTING				20	<u>†</u>	0.07 0.0	0.0 / 0.0		1	20				EX RECEPT OVER TABLES	22	
		EX GFI MAIN EMT.				20	1		0.070.0	0.0 / 0.0	-						24	
		EX GFI MAIN EMT.				20	1	0.0 / 0.0		0.070.0	2	20				EX AC TELECOM RM VAULT	26	
		EX GFI MAIN EMT.				20	1	0.070.0	0.0 / 0.0		1	20				EX CONDENSATION PUMP	28	
		EX SPARE ABOVE CEILING				20	1		0.070.0	00/00	1	20					30	
						20	1	0.0 / 0.0		0.0 / 0.0	<u> </u>					EX TERRI STUART OFFICE EX HR ASSIST RECEPT		
		EX SPARE ABOVE CEILING EX POWER POLE					1	0.0 / 0.0	0.0 / 0.0		1	20					32	
			 2#12	#40	3/4"	20	1 1		0.070.0	0.4 / 0.0	1	30				EX 125V-30A REC. DATA	34	
5, N		RECEPTACLES 006 AND 008		#12				07/05		0.4 / 0.0	1	20				EX POWER POLE	36	 NI
N		RECEPTACLES 011	2#12	#12	3/4"		1	0.7 / 0.5	0.0/0.5		1	20	3/4"	#12		TV 011	38	N
N		RECEPTACLES 013A	2#12	#12	3/4"	20	1		0.9 / 0.5	40/00	1	20	3/4"	#12		TV 013A	40	N
N	41	RECEPTACLES LOBBY 007	2#12	#12	3/4"		1			1.0 / 0.0	1	20				SPARE	42	
					Total L			1.2 kVA	1.4 kVA	1.4 kVA								
					Total A	mps:		10 A	12 A	12 A								
oad (lass	sification			Connected	Load		Dema	nd Factor	Estim	ate	d Der	mand			Panel Totals		
ecept	acle	s			4.0 kV	4		10	0.00%		4.0	kVA						
															Total	Conn. Load: 4.0 kVA		
															Total E	st. Demand: 4.0 kVA		
																nn. Current: 11 A		
																nd Current: 11 A		
														TOtal Es	i. Denie	illa Garrent. 11 A		
otes:								Abb	revations:									
		K SHOWN IN BOLD. ONLY NEW	I UVDS S	IN/V/OHS	INI DANEL TA	או כ	2		PROVIDE G	ECI CIDCI I	IT E	DEVI	KED					
ı⊏vv v	VUR	IN SHOWIN IIN BOLD. UNLT NEW	LUADS	NIVVOLIC	IIN FAINEL I	JIALS	٥.						KER ER DIAGRAM					

	Location: JAN 204 Supply From: C Mounting: Surface							Volts: 120/208 Wye Phases: 3 Wires: 4 Phase in kVA					A.I.C. Rating: EX Enclosure: Type 1 Mains: 100A MLO					
NOTE CKT CIRCUIT	DESCRIPTION	WIRE	GND	CONDUIT	BKR	A	В	С	BKR	CONDUIT	GND	WIRE	CIRCUIT	DESCRIPTION	СКТ	NOTE		
1, 2 1 TV 215A		2#10	#10	3/4"	20 1	0.5 / 0.5			1 20	3/4"	#10	2#10	RECEPTACL	ES 215Δ	2	1, 2		
1, 2 3 RECEPTACL	FS 215A	2#10	#10	3/4"	20 1		0.5 / 0.5		1 20	3/4"	#10		RECEPTACL		4	1, 2		
1, 2 5 RECEPTACL		2#10	#10	3/4"	20 1		0.07 0.0	0.5 / 0.5	1 20	3/4"	#10		TV 213		6	1, 2		
1, 2 7 TV 213		2#10	#10	3/4"	20 1	0.5 / 0.4			1 20	3/4"	#10		RECEPTACL	ES 213	8	1, 2		
1, 2 9 FLOOR BOXE	ES 213	2#10	#10	3/4"	20 1		0.4 / 0.3		1 20	3/4"	#10			NTER FRIDGE 213	10	1, 2		
1, 2 11 UNDERCOUN		2#10	#10	3/4"	20 1			1.5 / 0.4	1 20	3/4"	#10		RECEPTACL		12	1, 2		
1, 2 13 FLOOR BOXE		2#10	#10	3/4"	20 1	0.4 / 0.5			1 20	3/4"	#10		RECEPTACL		14	1, 2		
1, 2 15 TV 211		2#10	#10	3/4"	20 1		0.5 / 0.4		1 20	3/4"	#10	2#10	RECEPTACL	ES 211	16	1, 2		
1, 2 17 TV 211		2#10	#10	3/4"	20 1			0.5 / 0.5	1 20	3/4"	#10	2#10	TV 211		18	1, 2		
1, 2 19 TV 211		2#10	#10	3/4"		0.5 / 0.4			1 20	3/4"	#10	2#10	RECEPTACL	ES 211	20	1, 2		
1, 2 21 UNDERCOUN	NTER FRIDGE 211	2#10	#10	3/4"	20 1		0.3 / 1.5		1 20	3/4"	#10			NTER ICE 211	22	1, 2		
1, 2 23 UNDERCOUN		2#10	#10	3/4"	20 1			0.3 / 1.5	1 20	3/4"	#10	2#10	UNDERCOU	NTER ICE 211	24	1, 2		
1 25 RECEPTACL		2#12	#12	3/4"		0.4 / 0.7			1 20	3/4"	#12		RECEPTACL		26	1		
	ES 208B AND 208C	2#12	#12	3/4"	20 1		0.5 / 0.5		1 20	3/4"	#12		RECEPTACL		28	1		
N 29 TV 205		2#12	#12	3/4"	20 1			0.5 / 0.4	1 20	3/4"	#12		RECEPTACL		30	1		
N 31 TV 205		2#12	#12	3/4"		0.5 / 0.5			1 20	3/4"	#12		RECEPTACL	ES 205	32	1		
N 33 TV 205		2#12	#12	3/4"	20 1		0.5 / 0.5		1 20	3/4"	#12		TV 205		34	N		
N 35 RECEPTACL		2#12	#12	3/4"	20 1			0.4 / 0.5	1 20	3/4"	#12	2#12	RECEPTACL	ES 202A	36	N		
	ES 202B AND 202C		#12	3/4"	20 1	0.07 0.0									38			
N 39 H-1 WARMIN		2#12	#12	3/4"	20 1		0.6 / 8.7		3 100	1-1/4"	#8	4#3	PANEL D2 JA	N 204	40	N		
N 41 RECEPTACL	ES 202D	2#12	#12	3/4"	20 1			0.7 / 6.2							42			
				Total L	oad:	12.3 kVA	15.7 kVA											
				Total A		103 A	134 A	123 A										
oad Classification				Connected	Load	Dema	ind Factor	Estim	ated De	mand			Panel T	otals				
HVAC				0.6 kV	4	10	00.00%		0.6 kVA									
Kitchen Equipment				21.2 kV	Ά	6	5.00%	,	13.8 kVA			Total C	onn. Load: 4	2.5 kVA				
Motor				2.0 kV	4	10	00.00%		2.0 kVA			Total Es	t. Demand: 3	31.2 kVA				
Power				1.0 kV	4	10	00.00%		1.0 kVA		Т	otal Cor	n. Current: 1	18 A				
Receptacles				17.7 kV	A	7	8.31%		13.8 kVA		Total Es	t. Dema	nd Current: 8	37 A				
·																		
Notes:						Δh	orevations:											
I. EXISTING BREAKER 1	O BE BELISED FOR	NEW C	IRCLIIT				PROVIDE G	בברו רוםרו ו	IT RDE^	KEB								
I. EXISTING BREAKER I 2. WIRE UPSIZED FOR \		NEW C	IRCUIT.								10							
WITCE OF SIZED FOR V	SEIAGE DINOI .					1-L	- KEFER TO) ELECTRIC	AL RISE	R DIAGRAM	IS							



Roanoke 119 Norfolk Avenue, Suite 310 Roanoke, Virginia 24011





	DATE							
<u>8</u>	NO							
REVISIONS	DESCRIPTION							
	O							
		ADDENDA 3						
	Š.	3 A						

PULASKI COUNTY INDOOR SPORTSPLEX AND EXPO CENTER FACILITY RENOVATION

ELECTRICAL PANEL SCHEDULES

DRAWN CHECKED

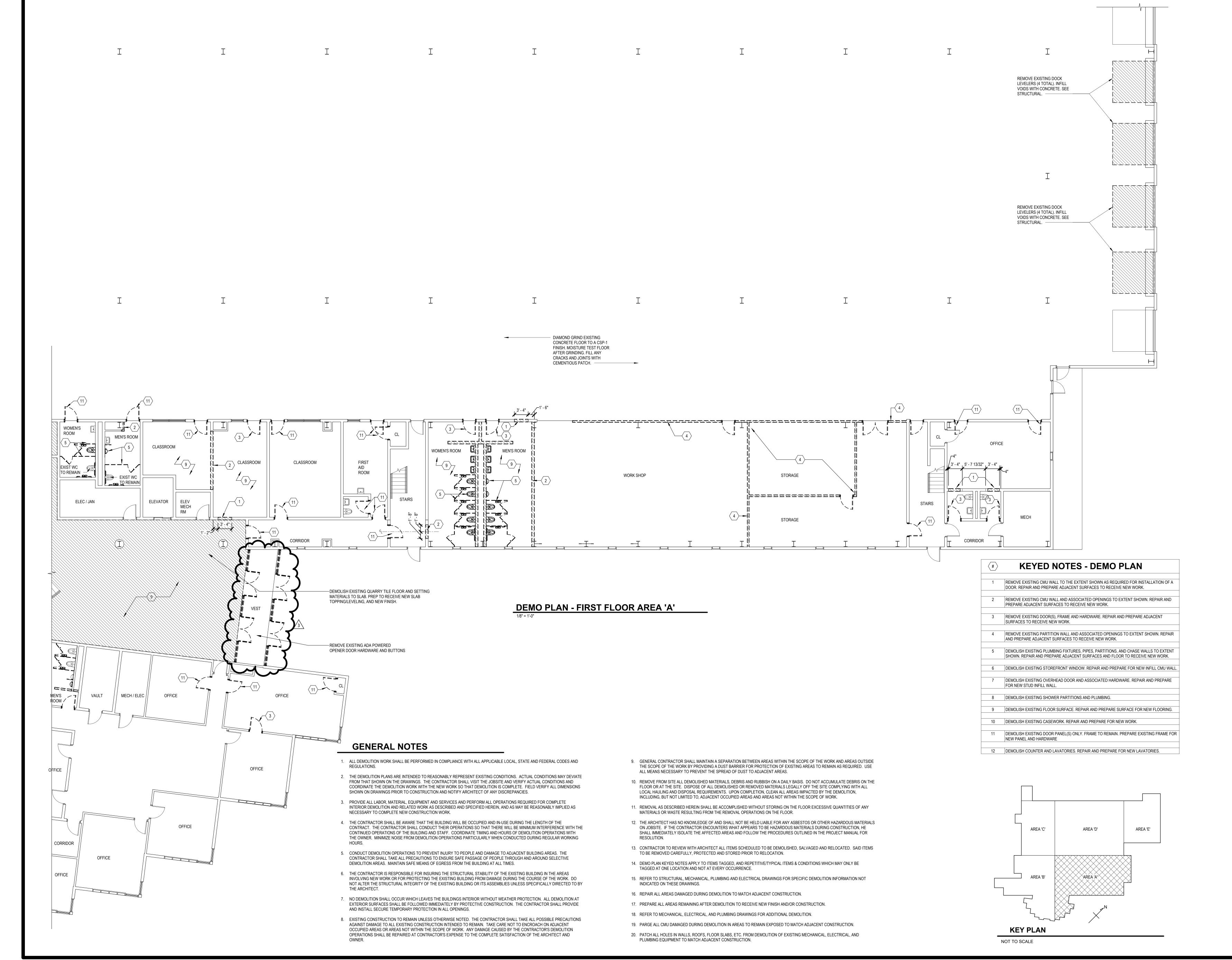
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APR 10, 2025 COMM. NO.

E505



24060



ARCHITECTS ENGINEERS

222 Lee Street, West 1116 S Main St

222 Lee Street, West
Charleston, WV 25302
Phone: 304.342.0159
Fax: 304.345.8144

1116 S Main St
Blacksburg, VA 24060
Phone: 540.552.2151

www.zmm.com

RANDY S. JONES
Lic. No. 009435
4/10/25

DESCRIPTION
DATE

NANY 5, 2025

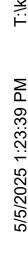
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Y PARKS AND RECREATION
OUBLIN, VA

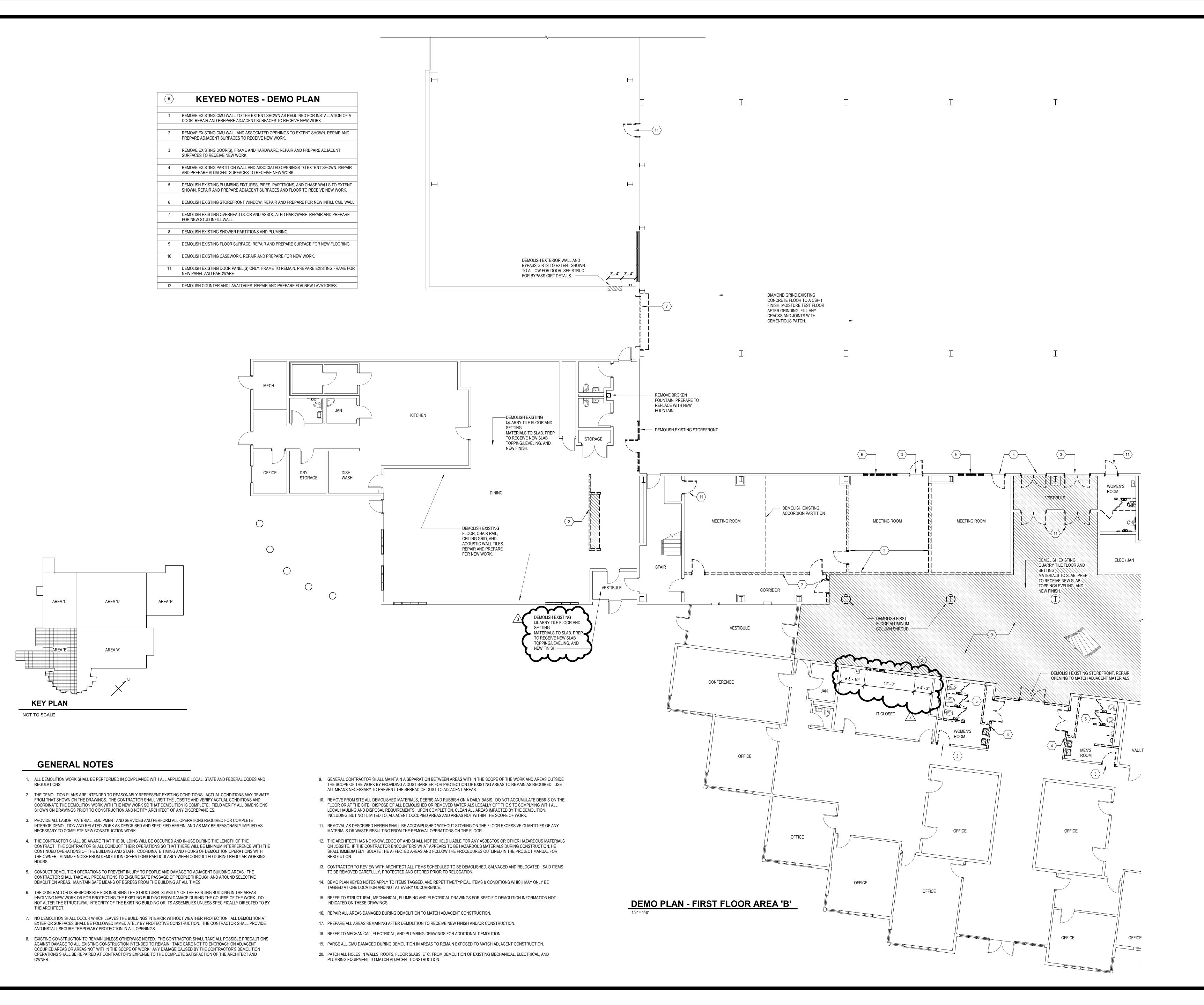
DEMO FIRST FLOOR PLAN -

RAWN
KSM
CHECKED
JFH
DATE
APR 10, 2025
COMM. NO.

111







Z M M ARCHITECTS ENGINEERS

222 Lee Street, West 1116 S Main St Charleston, WV 25302 Phone: 304.342.0159 Fax: 304.345.8144 1116 S Main St Blacksburg, VA 24060 Phone: 540.552.2151

www.zmm.com

RANDY S. JONES
Lic. No. 009435

4/10/25

ADDENDA 3

BESCRIPTION

MAY 5, 2025
2025

Y INDOOR SPORTSPLEX AND EXPO (
I COUNTY PARKS AND RECREATION
DUBLIN, VA

DEMO FIRST FLOOR PLAN -AREA 'B'

CHECKED

KSM

DATE

APR 10, 2

JFH

DATE

APR 10, 2025

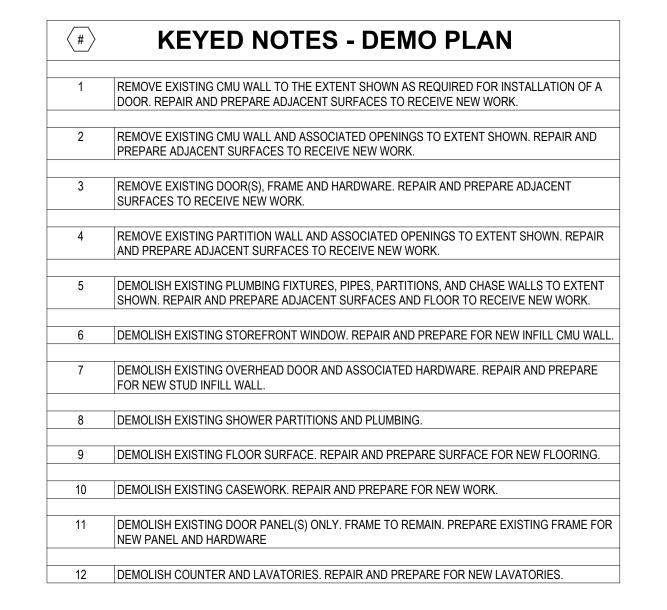
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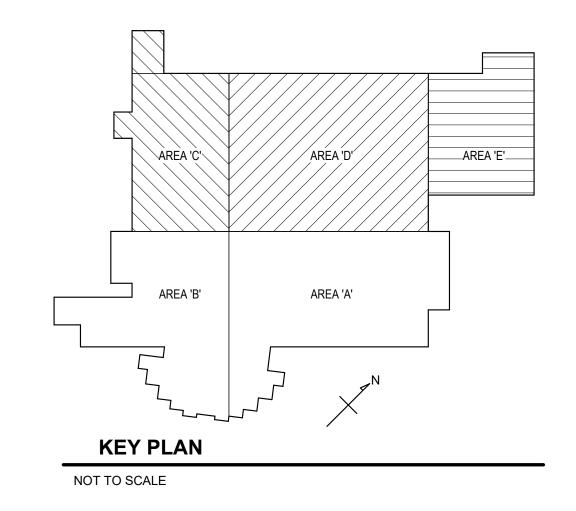
24060

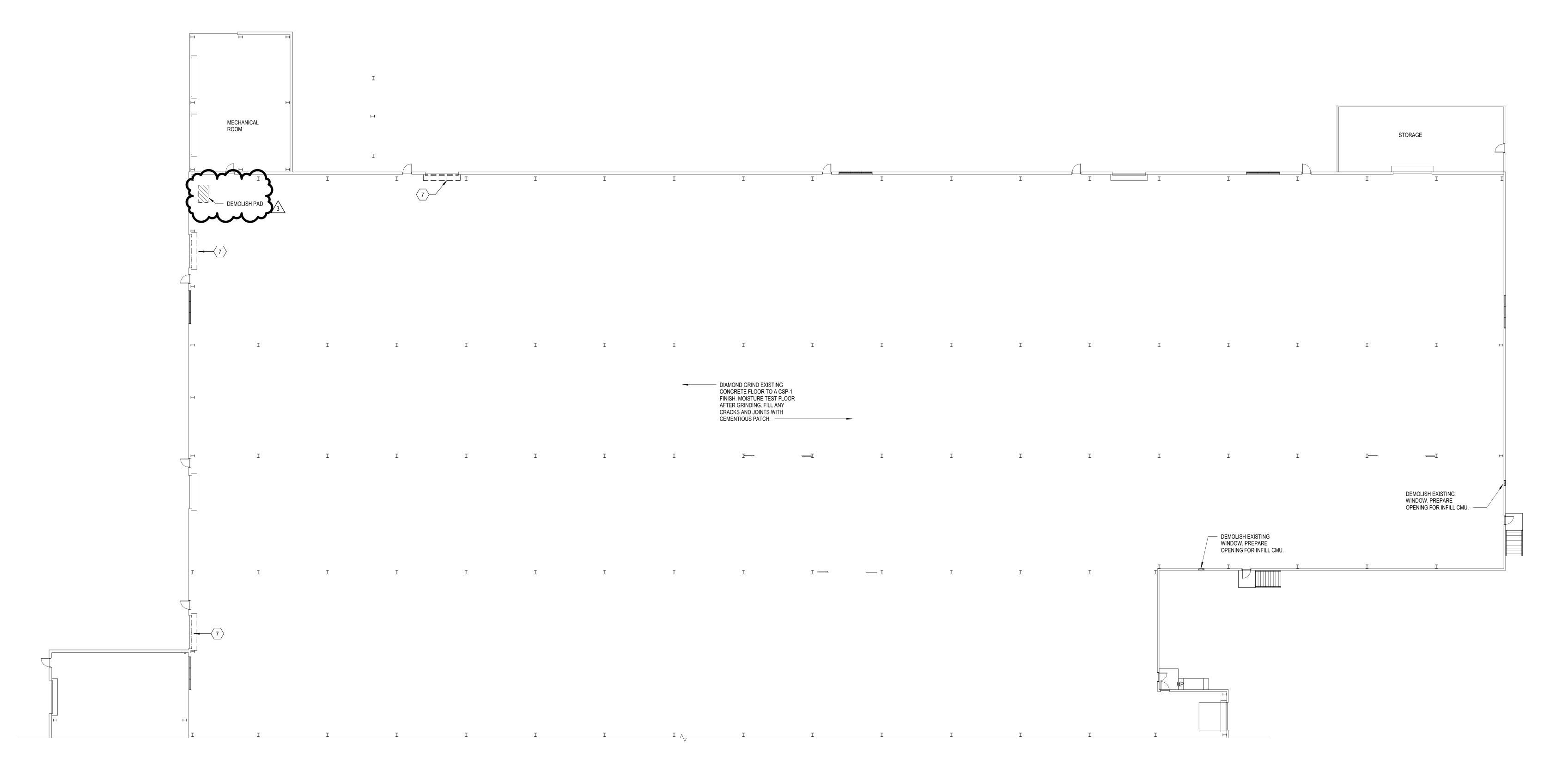
- 2. THE DEMOLITION PLANS ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. ACTUAL CONDITIONS MAY DEVIATE FROM THAT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ACTUAL CONDITIONS AND COORDINATE THE DEMOLITION WORK WITH THE NEW WORK SO THAT DEMOLITION IS COMPLETE. FIELD VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 3. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INTERIOR DEMOLITION AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE NEW CONSTRUCTION WORK.
- 4. THE CONTRACTOR SHALL BE AWARE THAT THE BUILDING WILL BE OCCUPIED AND IN-USE DURING THE LENGTH OF THE CONTRACT. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO THAT THERE WILL BE MINIMUM INTERFERENCE WITH THE CONTINUED OPERATIONS OF THE BUILDING AND STAFF. COORDINATE TIMING AND HOURS OF DEMOLITION OPERATIONS WITH THE OWNER. MINIMIZE NOISE FROM DEMOLITION OPERATIONS PARTICULARLY WHEN CONDUCTED DURING REGULAR WORKING
- 5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO ENSURE SAFE PASSAGE OF PEOPLE THROUGH AND AROUND SELECTIVE DEMOLITION AREAS. MAINTAIN SAFE MEANS OF EGRESS FROM THE BUILDING AT ALL TIMES.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THE STRUCTURAL STABILITY OF THE EXISTING BUILDING IN THE AREAS INVOLVING NEW WORK OR FOR PROTECTING THE EXISTING BUILDING FROM DAMAGE DURING THE COURSE OF THE WORK. DO NOT ALTER THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING OR ITS ASSEMBLIES UNLESS SPECIFICALLY DIRECTED TO BY
- 7. NO DEMOLITION SHALL OCCUR WHICH LEAVES THE BUILDINGS INTERIOR WITHOUT WEATHER PROTECTION. ALL DEMOLITION AT EXTERIOR SURFACES SHALL BE FOLLOWED IMMEDIATELY BY PROTECTIVE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL SECURE TEMPORARY PROTECTION IN ALL OPENINGS.
- 8. EXISTING CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS AGAINST DAMAGE TO ALL EXISTING CONSTRUCTION INTENDED TO REMAIN. TAKE CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. ANY DAMAGE CAUSED BY THE CONTRACTOR'S DEMOLITION OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND

- 9. GENERAL CONTRACTOR SHALL MAINTAIN A SEPARATION BETWEEN AREAS WITHIN THE SCOPE OF THE WORK AND AREAS OUTSIDE THE SCOPE OF THE WORK BY PROVIDING A DUST BARRIER FOR PROTECTION OF EXISTING AREAS TO REMAIN AS REQUIRED. USE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST TO ADJACENT AREAS.
- 10. REMOVE FROM SITE ALL DEMOLISHED MATERIALS, DEBRIS AND RUBBISH ON A DAILY BASIS. DO NOT ACCUMULATE DEBRIS ON THE FLOOR OR AT THE SITE. DISPOSE OF ALL DEMOLISHED OR REMOVED MATERIALS LEGALLY OFF THE SITE COMPLYING WITH ALL LOCAL HAULING AND DISPOSAL REQUIREMENTS. UPON COMPLETION, CLEAN ALL AREAS IMPACTED BY THE DEMOLITION, INCLUDING, BUT NOT LIMITED TO, ADJACENT OCCUPIED AREAS AND AREAS NOT WITHIN THE SCOPE OF WORK.
- 11. REMOVAL AS DESCRIBED HEREIN SHALL BE ACCOMPLISHED WITHOUT STORING ON THE FLOOR EXCESSIVE QUANTITIES OF ANY MATERIALS OR WASTE RESULTING FROM THE REMOVAL OPERATIONS ON THE FLOOR.
- 12. THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ON JOBSITE. IF THE CONTRACTOR ENCOUNTERS WHAT APPEARS TO BE HAZARDOUS MATERIALS DURING CONSTRUCTION. HE SHALL IMMEDIATELY ISOLATE THE AFFECTED AREAS AND FOLLOW THE PROCEDURES OUTLINED IN THE PROJECT MANUAL FOR
- 13. CONTRACTOR TO REVIEW WITH ARCHITECT ALL ITEMS SCHEDULED TO BE DEMOLISHED, SALVAGED AND RELOCATED. SAID ITEMS TO BE REMOVED CAREFULLY, PROTECTED AND STORED PRIOR TO RELOCATION.
- 14. DEMO PLAN KEYED NOTES APPLY TO ITEMS TAGGED, AND REPETITIVE/TYPICAL ITEMS & CONDITIONS WHICH MAY ONLY BE TAGGED AT ONE LOCATION AND NOT AT EVERY OCCURRENCE.
- 15. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SPECIFIC DEMOLITION INFORMATION NOT INDICATED ON THESE DRAWINGS.
- 16. REPAIR ALL AREAS DAMAGED DURING DEMOLITION TO MATCH ADJACENT CONSTRUCTION.
- 17. PREPARE ALL AREAS REMAINING AFTER DEMOLITION TO RECEIVE NEW FINISH AND/OR CONSTRUCTION.
- 18. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION.
- 20. PATCH ALL HOLES IN WALLS, ROOFS, FLOOR SLABS, ETC. FROM DEMOLITION OF EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT TO MATCH ADJACENT CONSTRUCTION.

19. PARGE ALL CMU DAMAGED DURING DEMOLITION IN AREAS TO REMAIN EXPOSED TO MATCH ADJACENT CONSTRUCTION.



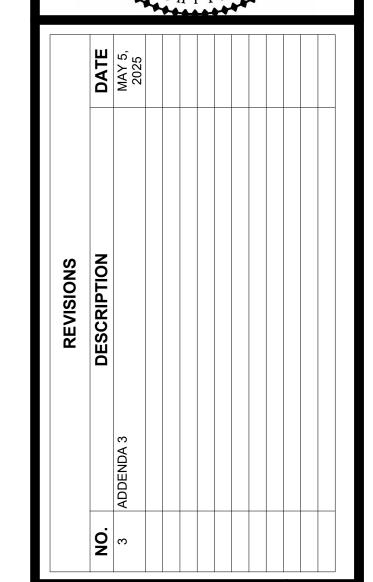




DEMO PLAN - FIRST FLOOR AREA 'C', 'D', AND 'E'

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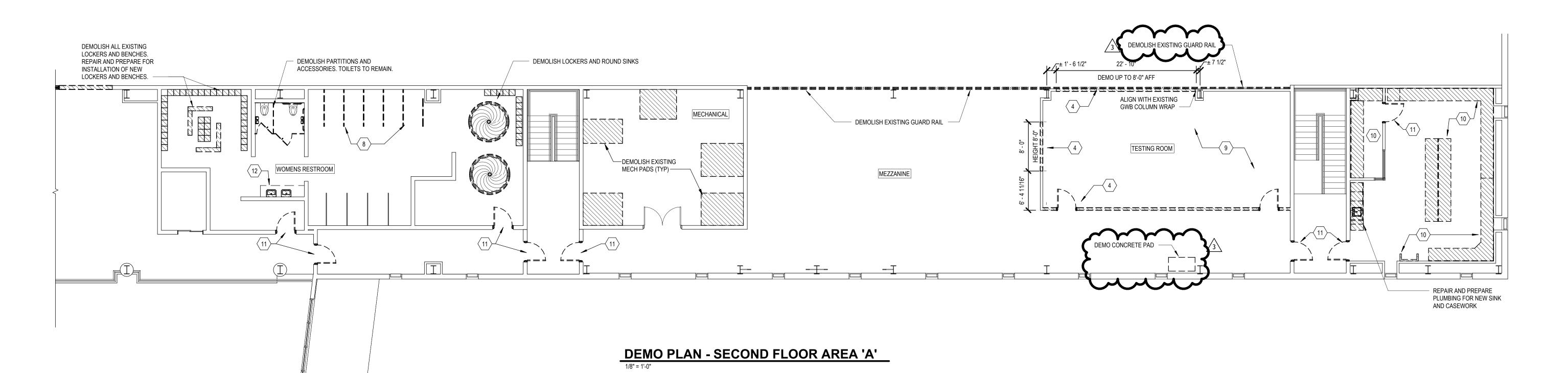


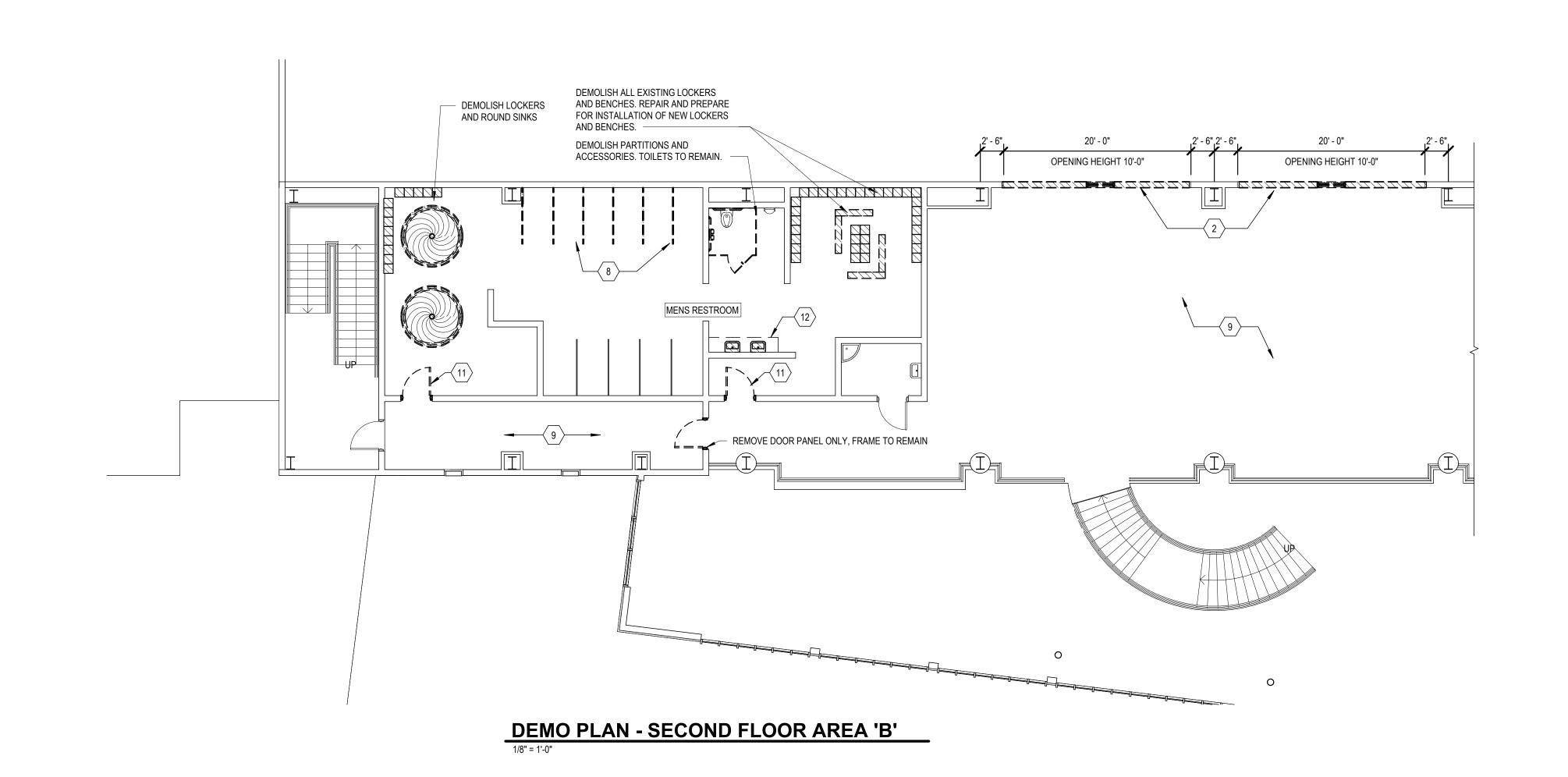
DEMO FIRST FLOOR PLAN -**AREA 'CDE'**

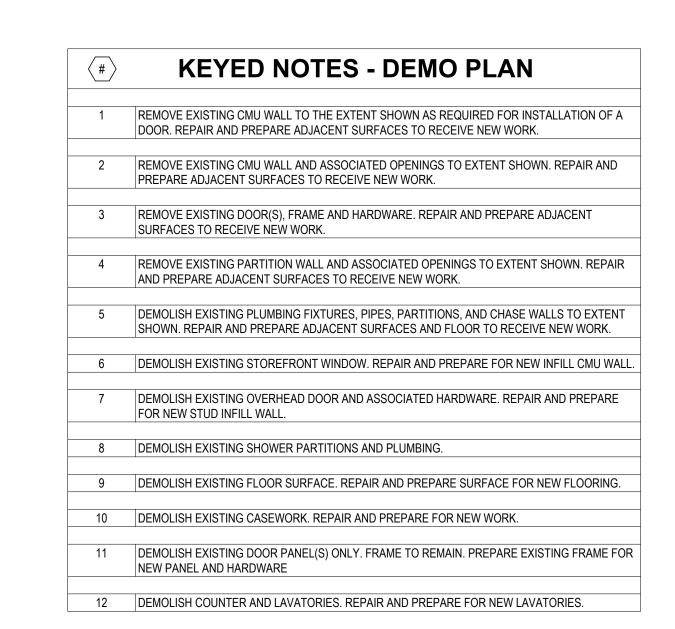
APR 10, 2025

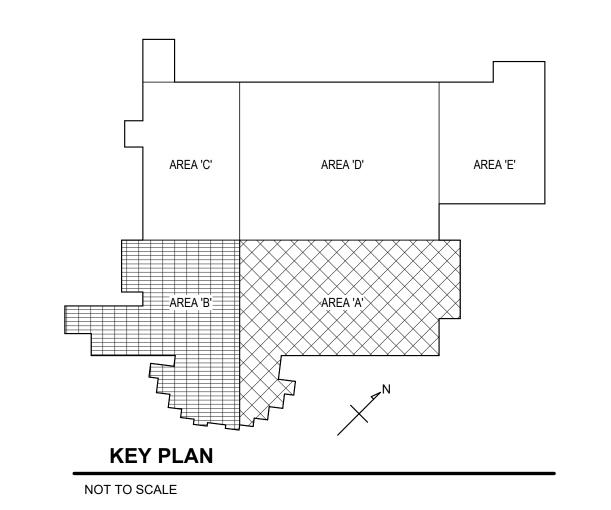
- 1. ALL DEMOLITION WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND
- 2. THE DEMOLITION PLANS ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. ACTUAL CONDITIONS MAY DEVIATE FROM THAT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ACTUAL CONDITIONS AND COORDINATE THE DEMOLITION WORK WITH THE NEW WORK SO THAT DEMOLITION IS COMPLETE. FIELD VERIFY ALL DIMENSIONS SHOWN ON DRAWINGS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INTERIOR DEMOLITION AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE NEW CONSTRUCTION WORK.
- 4. THE CONTRACTOR SHALL BE AWARE THAT THE BUILDING WILL BE OCCUPIED AND IN-USE DURING THE LENGTH OF THE CONTRACT. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO THAT THERE WILL BE MINIMUM INTERFERENCE WITH THE CONTINUED OPERATIONS OF THE BUILDING AND STAFF. COORDINATE TIMING AND HOURS OF DEMOLITION OPERATIONS WITH THE OWNER. MINIMIZE NOISE FROM DEMOLITION OPERATIONS PARTICULARLY WHEN CONDUCTED DURING REGULAR WORKING
- 5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO ENSURE SAFE PASSAGE OF PEOPLE THROUGH AND AROUND SELECTIVE DEMOLITION AREAS. MAINTAIN SAFE MEANS OF EGRESS FROM THE BUILDING AT ALL TIMES.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THE STRUCTURAL STABILITY OF THE EXISTING BUILDING IN THE AREAS INVOLVING NEW WORK OR FOR PROTECTING THE EXISTING BUILDING FROM DAMAGE DURING THE COURSE OF THE WORK. DO NOT ALTER THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING OR ITS ASSEMBLIES UNLESS SPECIFICALLY DIRECTED TO BY
- 7. NO DEMOLITION SHALL OCCUR WHICH LEAVES THE BUILDINGS INTERIOR WITHOUT WEATHER PROTECTION. ALL DEMOLITION AT EXTERIOR SURFACES SHALL BE FOLLOWED IMMEDIATELY BY PROTECTIVE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND INSTALL SECURE TEMPORARY PROTECTION IN ALL OPENINGS.
- 8. EXISTING CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS AGAINST DAMAGE TO ALL EXISTING CONSTRUCTION INTENDED TO REMAIN. TAKE CARE NOT TO ENCROACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. ANY DAMAGE CAUSED BY THE CONTRACTOR'S DEMOLITION OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND

- 9. GENERAL CONTRACTOR SHALL MAINTAIN A SEPARATION BETWEEN AREAS WITHIN THE SCOPE OF THE WORK AND AREAS OUTSIDE THE SCOPE OF THE WORK BY PROVIDING A DUST BARRIER FOR PROTECTION OF EXISTING AREAS TO REMAIN AS REQUIRED. USE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST TO ADJACENT AREAS.
- 10. REMOVE FROM SITE ALL DEMOLISHED MATERIALS, DEBRIS AND RUBBISH ON A DAILY BASIS. DO NOT ACCUMULATE DEBRIS ON THE FLOOR OR AT THE SITE. DISPOSE OF ALL DEMOLISHED OR REMOVED MATERIALS LEGALLY OFF THE SITE COMPLYING WITH ALL LOCAL HAULING AND DISPOSAL REQUIREMENTS. UPON COMPLETION, CLEAN ALL AREAS IMPACTED BY THE DEMOLITION, INCLUDING, BUT NOT LIMITED TO, ADJACENT OCCUPIED AREAS AND AREAS NOT WITHIN THE SCOPE OF WORK.
- 11. REMOVAL AS DESCRIBED HEREIN SHALL BE ACCOMPLISHED WITHOUT STORING ON THE FLOOR EXCESSIVE QUANTITIES OF ANY MATERIALS OR WASTE RESULTING FROM THE REMOVAL OPERATIONS ON THE FLOOR.
- 12. THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ON JOBSITE. IF THE CONTRACTOR ENCOUNTERS WHAT APPEARS TO BE HAZARDOUS MATERIALS DURING CONSTRUCTION, HE SHALL IMMEDIATELY ISOLATE THE AFFECTED AREAS AND FOLLOW THE PROCEDURES OUTLINED IN THE PROJECT MANUAL FOR
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- 19. PARGE ALL CMU DAMAGED DURING DEMOLITION IN AREAS TO REMAIN EXPOSED TO MATCH ADJACENT CONSTRUCTION.
- 20. PATCH ALL HOLES IN WALLS, ROOFS, FLOOR SLABS, ETC. FROM DEMOLITION OF EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT TO MATCH ADJACENT CONSTRUCTION.









DEMO SECOND FLOOR PLAN

c) by ZMM, INC.

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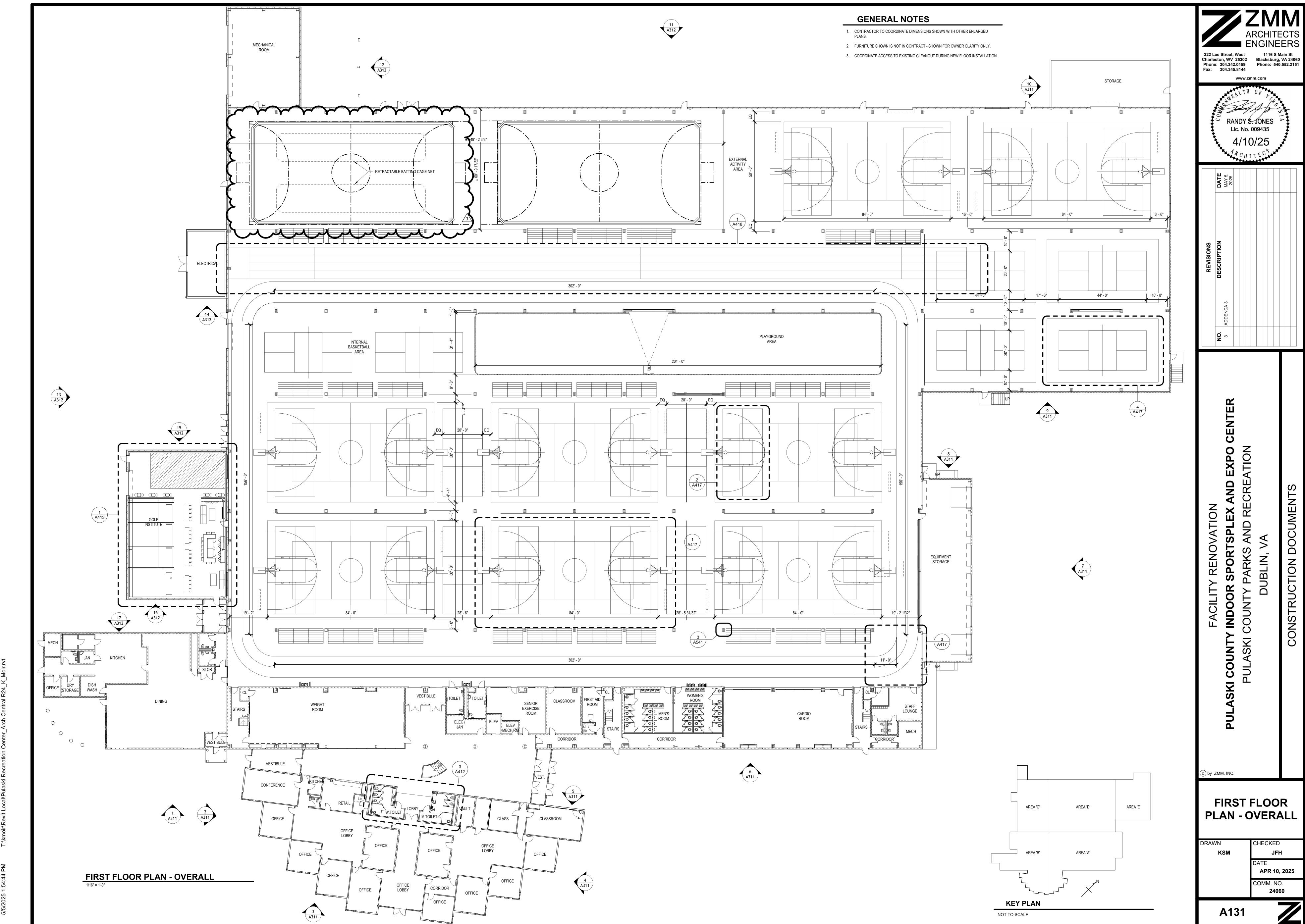
Fax: 304.345.8144

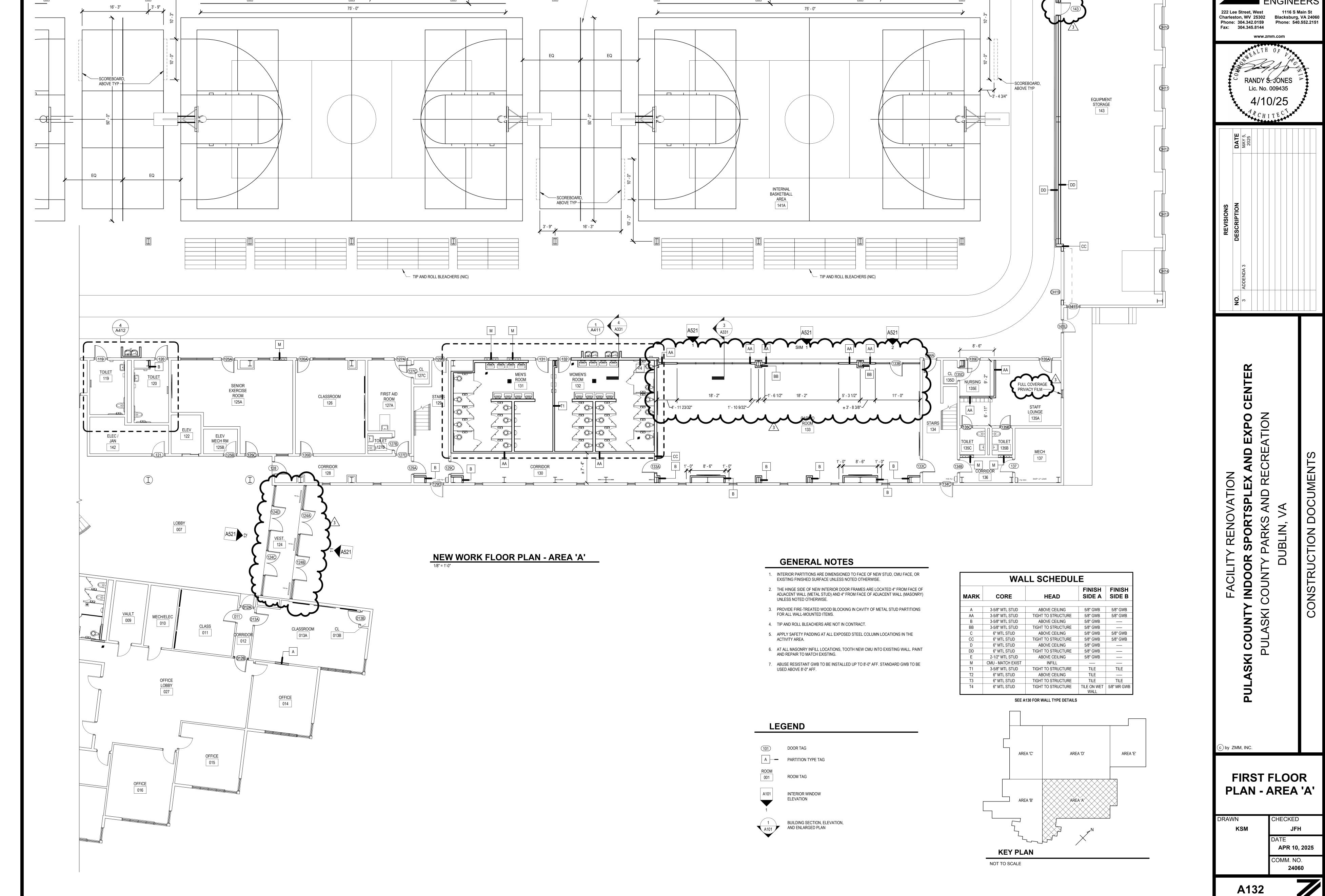
Charleston, WV 25302 Blacksburg, VA 24060

Phone: 304.342.0159 Phone: 540.552.2151

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1116 S Main St

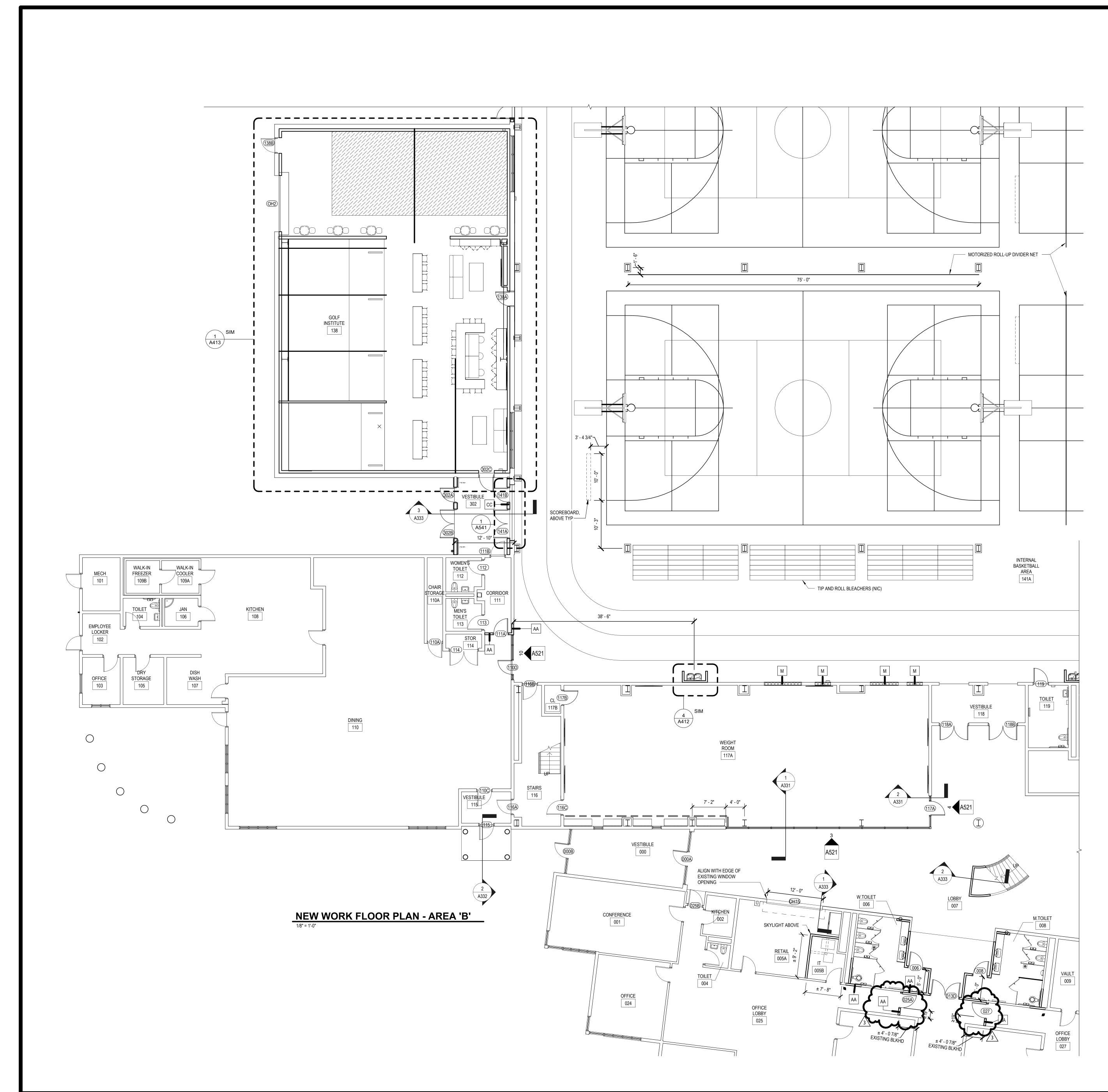




MOTORIZED ROLL-UP DIVIDER CURTAIN

- MOTORIZED ROLL-UP DIVIDER CURTAIN

MOTORIZED ROLL-UP DIVIDER CURTAIN



- INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF NEW STUD, CMU FACE, OR EXISTING FINISHED SURFACE UNLESS NOTED OTHERWISE.
- 2. THE HINGE SIDE OF NEW INTERIOR DOOR FRAMES ARE LOCATED 4" FROM FACE OF ADJACENT WALL (METAL STUD) AND 4" FROM FACE OF ADJACENT WALL (MASONRY) UNLESS NOTED OTHERWISE.
- 3. PROVIDE FIRE-TREATED WOOD BLOCKING IN CAVITY OF METAL STUD PARTITIONS FOR ALL WALL-MOUNTED ITEMS.
- 4. TIP AND ROLL BLEACHERS ARE NOT IN CONTRACT.
- APPLY SAFETY PADDING AT ALL EXPOSED STEEL COLUMN LOCATIONS IN THE ACTIVITY AREA.
- 6. AT ALL MASONRY INFILL LOCATIONS, TOOTH NEW CMU INTO EXISTING WALL. PAINT AND REPAIR TO MATCH EXISTING.
- 7. ABUSE RESISTANT GWB TO BE INSTALLED UP TO 8'-0" AFF. STANDARD GWB TO BE USED ABOVE 8'-0" AFF.

ARCHITECTS ENGINEERS

222 Lee Street, West 1116 S Main St

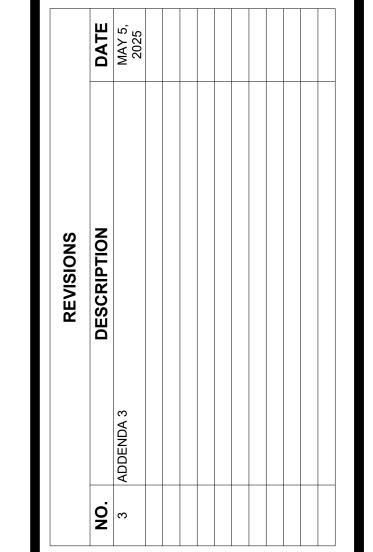
222 Lee Street, West
Charleston, WV 25302
Phone: 304.342.0159
Fax: 304.345.8144

1116 S Main St
Blacksburg, VA 24060
Phone: 540.552.2151

04.345.8144 www.zmm.com

RANDY S. JONES
Lic. No. 009435

4/10/25



LEGEND

DOOR TAG

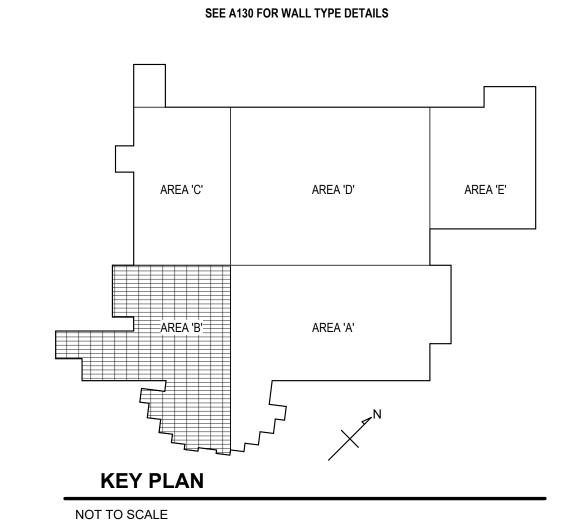
A PARTITION TYPE TA

ROOM 001 ROOM TAG

A101 INTERIOR WINDOW ELEVATION

1
BUILDING SECTION, ELEVATION,
AND ENLARGED PLAN

	WAI	LL SCHEDUL	Ε.	
MARK	CORE	HEAD	FINISH SIDE A	FINISH SIDE B
Α	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GWB
AA	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GWB
В	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	
BB	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
С	6" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GWB
CC	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GWB
D	6" MTL STUD	ABOVE CEILING	5/8" GWB	
DD	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
Е	2-1/2" MTL STUD	ABOVE CEILING	5/8" GWB	
М	CMU - MATCH EXIST	INFILL		
T1	3-5/8" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T2	6" MTL STUD	ABOVE CEILING	TILE	
T3	6" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T4	6" MTL STUD	TIGHT TO STRUCTURE	TILE ON WET WALL	5/8" MR GWE



FIRST FLOOR PLAN - AREA 'B'

DRAWN

KSM

JFH

DATE

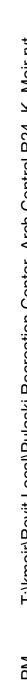
APR 10, 2029

COMM. NO.

24060

A133

Z

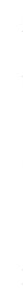


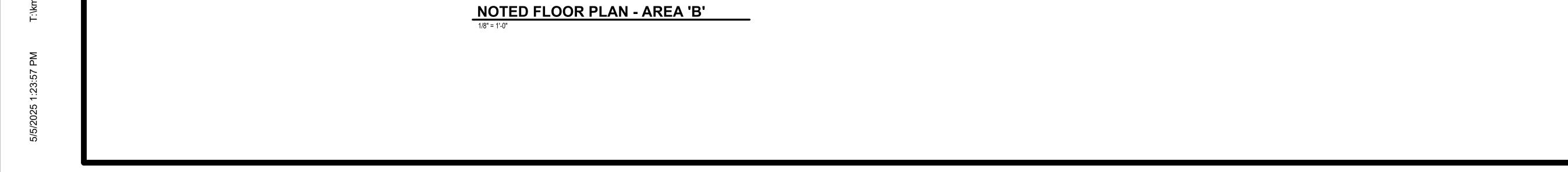
ON BOTTOM 4'-0" MINIMUM

LOUNGE 202A

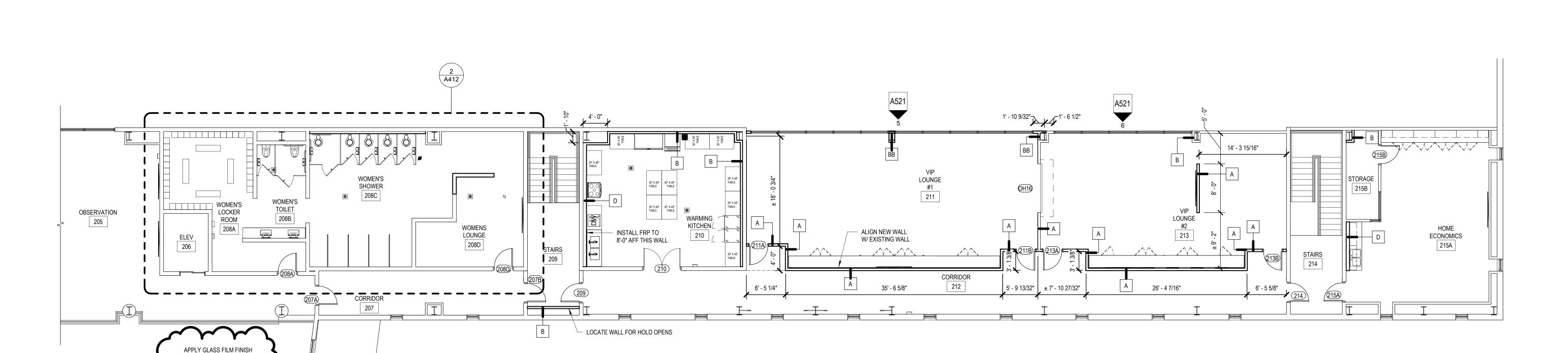
OF SECOND FLOOR GLAZING. USE 3M FASARA AS BASIS OF DESIGN. FILM HEIGHT DETERMINED BY

ROLL WIDTH. —



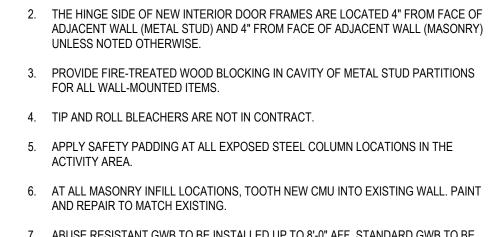


— APPLY GLASS FILM FINISH ON BOTTOM 4'-0"
MINIMUM OF SECOND FLOOR GLAZING. USE
3M FASARA AS BASIS OF DESIGN. FILM
HEIGHT DETERMINED BY ROLL WIDTH.



OBSERVATION 205

NOTED FLOOR PLAN - AREA 'A'
1/8" = 1'-0"



INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF NEW STUD, CMU FACE, OR EXISTING FINISHED SURFACE UNLESS NOTED OTHERWISE.

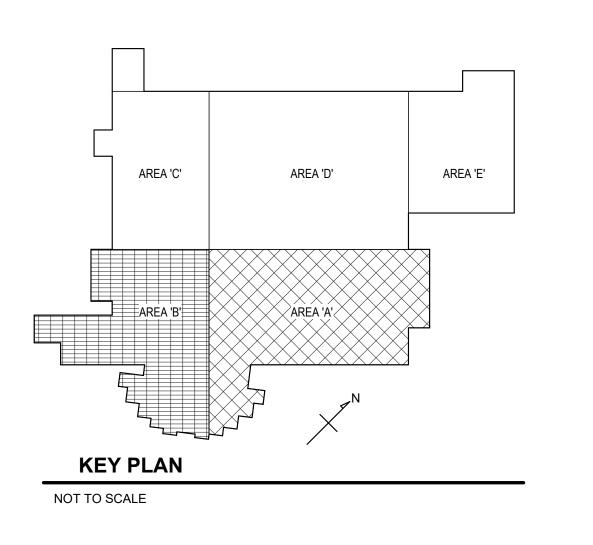
GENERAL NOTES

6.	AT ALL MASONRY INFILL LOCATIONS, TOOTH NEW CMU INTO EXISTING WALL. PARAND REPAIR TO MATCH EXISTING.
7.	ABUSE RESISTANT GWB TO BE INSTALLED UP TO 8'-0" AFF. STANDARD GWB TO BUSED ABOVE 8'-0" AFF.

l F <i>G</i>	SEND
)
(101)	DOOR TAG
_ A	PARTITION TYPE TAG
ROOM 001	ROOM TAG
A101	INTERIOR WINDOW ELEVATION
A101	BUILDING SECTION, ELEVATION, AND ENLARGED PLAN

	WAI	LL SCHEDUL	.E	
MARK	CORE	HEAD	FINISH SIDE A	FINISH SIDE B
	0 -/00 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	150/505/100	- /au au /a	-/011 011/15
Α	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GWB
AA	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GWB
В	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	
BB	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
С	6" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GWB
CC	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GWB
D	6" MTL STUD	ABOVE CEILING	5/8" GWB	
DD	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
Е	2-1/2" MTL STUD	ABOVE CEILING	5/8" GWB	
М	CMU - MATCH EXIST	INFILL		
T1	3-5/8" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T2	6" MTL STUD	ABOVE CEILING	TILE	
T3	6" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T4	6" MTL STUD	TIGHT TO STRUCTURE	TILE ON WET WALL	5/8" MR GWB

SEE A130 FOR WALL TYPE DETAILS



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NO. 3 ADDENDA 3

SECOND FLOOR **PLAN**

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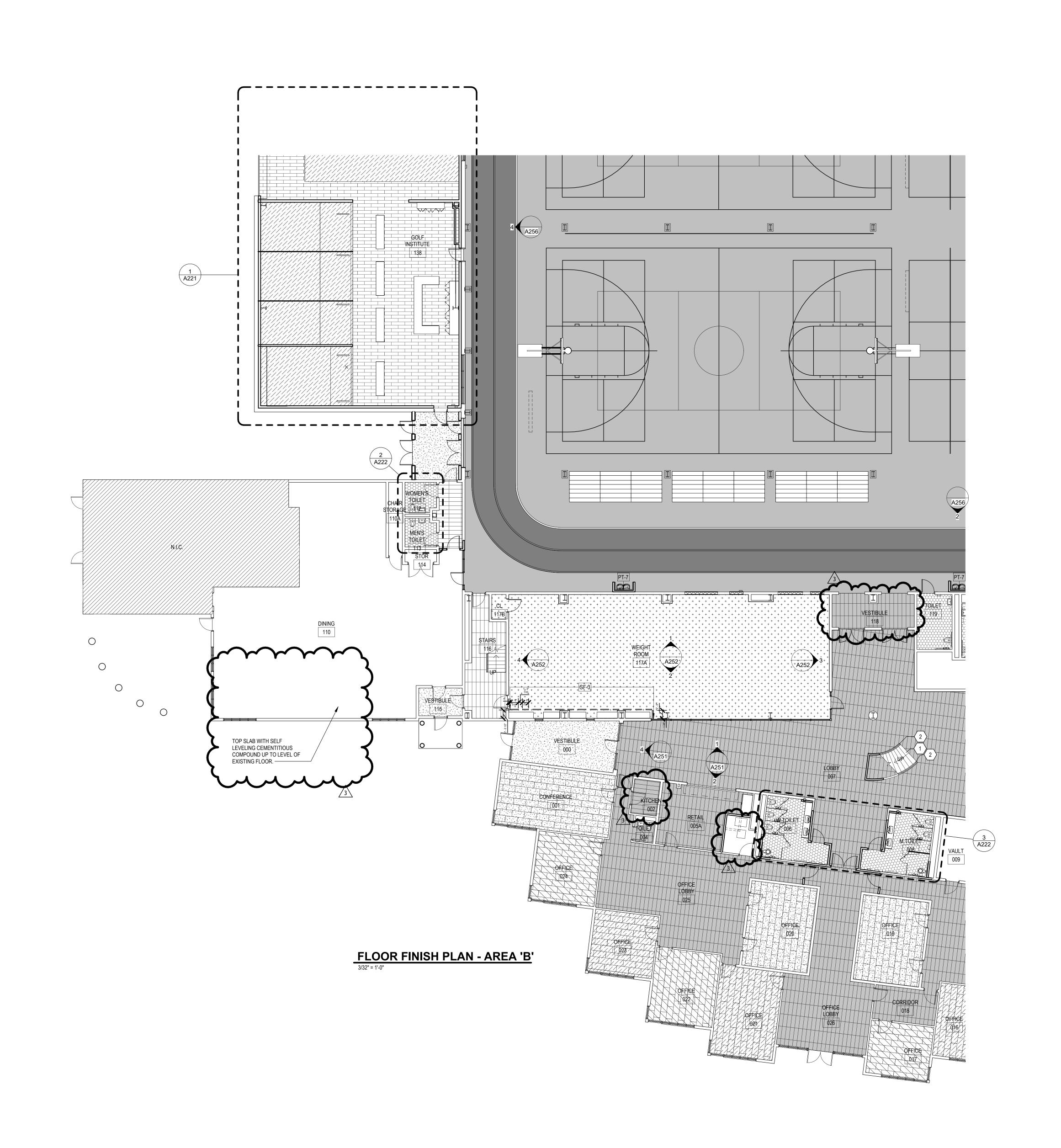
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FIRST FLOOR REFLECTED **CEILING PLAN -**AREA 'B'

APR 10, 2025

COMM. NO. **24060** A142





- 1. REFER TO SHEET A200 FOR FINISH FLOOR TRANSITIONS AND ADDITIONAL INSTALLATION PRODUCTS / DETAILS.
- WHERE FLOOR MATERIAL CHANGES IN DOORWAYS, PLACE TRANSITION UNDERNEATH DOOR LEAF.
- 3. PROVIDE RUBBER COVE BASE AT ALL CONCRETE AND RESILIENT FLOORING.
- PROVIDE RUBBER STRAIGHT BASE AT ALL CARPET TILE.

4. ALL WALLS AND GYPSUM CEILINGS TO BE PT-1 UNLESS OTHERWISE NOTED.

- 5. ALL BULKHEADS AND SOFFITS TO BE PT-1 UNLESS OTHERWISE NOTED. ALL CEILING SURFACES SHALL BE FINISHED ON ALL FACES UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILINGS PLANS FOR ADDITIONAL
- 6. ALL EXPOSED CEILINGS TO BE PAINTED OUT AS SCHEDULED IN DRYWALL FINISH. SEE RCP FOR ACCENT DETAILS.
- 7. ALL INTERIOR HM DOOR FRAMING SHALL BE PT-2 SEMIGLOSS.
- 8. ALL INTERIOR RAILING SHALL BE PT-11 SEMIGLOSS.
- 9. ALL RESTROOMS, KITCHEN, AND MECHANICAL/ELECTRICAL SPACES SHALL RECEIVE AN EPOXY PAINT FINISH.
- 10. ALL GYPSUM BOARD WALLS INDICATING SIGNAGE/GRAPHICS/BRANDING/ACCENT COLOR SHALL RECEIVE LEVEL 4 FINISH.
- 11. ALL GRILLES, VENTS, ELECTRICAL PANELS, ACCESS PANELS, ETC. TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE.
- 12. AREAS BEHIND CASEWORK, EQUIPMENT, TACKBOARDS, ETC. SHALL BE FINISHED.
- 13. REFER TO FINISH PLANS FOR WALL TILE LOCATIONS. 14. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR ACCENT WALL
- LOCATIONS. 15. REFER TO FINISH PLANS FOR LVT AND CARPET LAY PATTERN DIRECTION.
- 16. ALL TILE AND WALL PANELS ON OUTSIDE CORNERS TO RECEIVE SCHLUTER JOLLY
- 17. PROVIDE CRACK ISOLATION MEMBRANE UNDER ALL TILE FLOORING.
- 18. WHERE CASEWORK ABUTS ADJOINING WALLS, PROVIDE 1" (MIN, V.I.F.) PLAM FILLER PANEL BETWEEN CASEWORK AND WALL, TYP.
- COORDINATE COUNTERTOP SUPPORT BRACKETS WITH PLUMBING, ELECTRICAL, AND GROMMET LOCATIONS.
- 20. ALL EXPOSED PLUMBING LINES SHALL RECEIVE PVC JACKETS. COLOR TO BE SELECTED BY ARCHITECT.

21. DESIGNER TO PROVIDE COLORED FINISH PLANS UPON REQUEST.

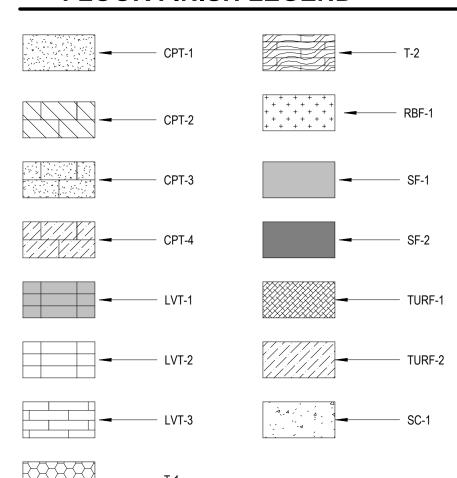
22. DESIGNER TO BE PROVIDED WITH MOCKUP OF GF-1 TO SHOW SEAMING PRIOR TO INSTALL.

KEYED NOTED - FINISH PLAN

EXISTING RUBBER ON STAIRS TO REMAIN

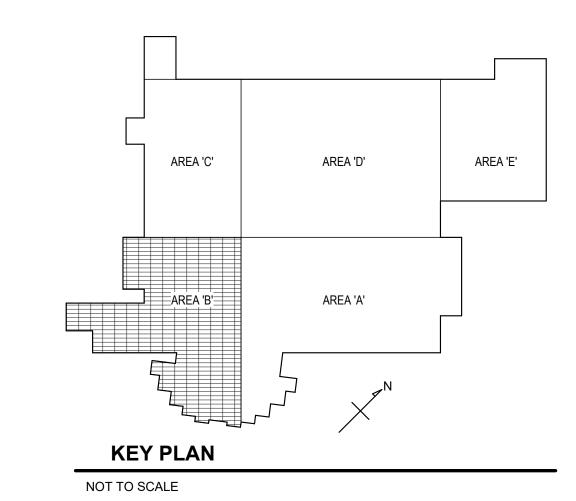
2 RAILING TO RECEIVE PT-11, SEMIGLOSS

FLOOR FINISH LEGEND



WALL ACCENT FINISH LOCATION. REFER TO FINISH PLANS.

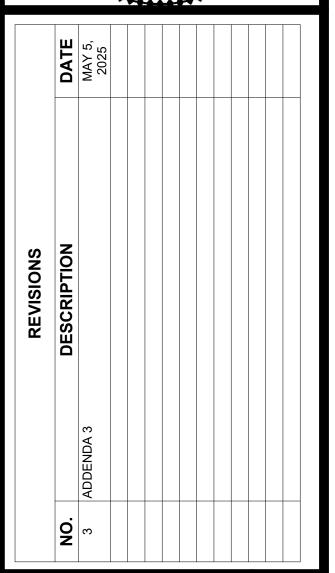
ACCENT FINISH TAG. REFER TO FINISH LEGEND.



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FIRST FLOOR FINISH PLAN -AREA 'B'

APR 10, 2025 COMM. NO. **24060**



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- 2 DROVIDE DURDED COVE DASE AT ALL CONCRETE AND DESILIENT EL CODINIC
- PROVIDE RUBBER COVE BASE AT ALL CONCRETE AND RESILIENT FLOORING. PROVIDE RUBBER STRAIGHT BASE AT ALL CARPET TILE.
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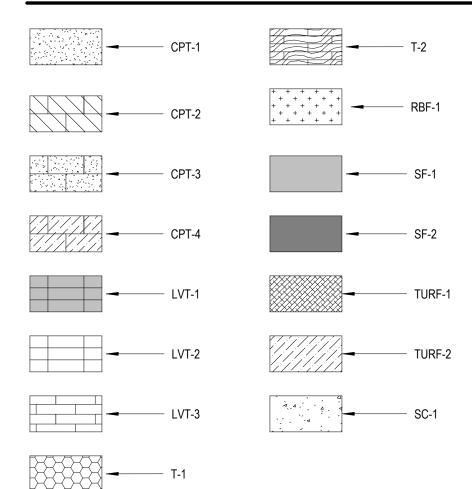
KEYED NOTED - FINISH PLAN

1 EXISTING RUBBER ON STAIRS TO REMAIN

2 RAILING TO RECEIVE PT-11, SEMIGLOSS

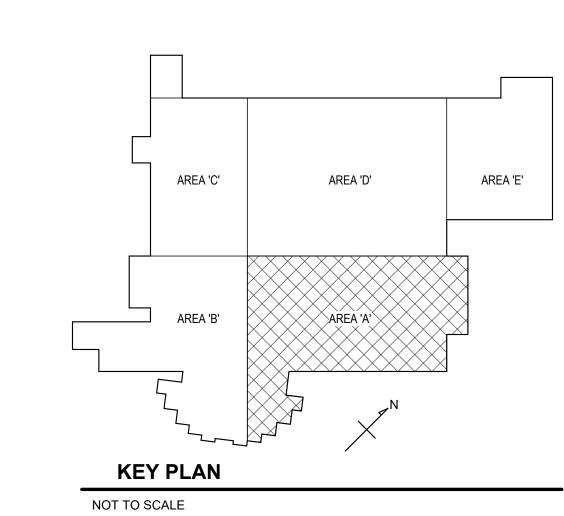
INSTALL.

FLOOR FINISH LEGEND



WALL ACCENT FINISH LOCATION.
REFER TO FINISH PLANS.

ACCENT FINISH TAG.
REFER TO FINISH LEGEND.



Z ARCH

222 Lee Street, West 1116 S Main St Charleston, WV 25302 Blacksburg, VA 24060 Phone: 304.342.0159 Phone: 540.552.2151 Fax: 304.345.8144

304.345.8144 www.zmm.com

RANDY S. JONES
Lic. No. 009435

4/10/25

 NO.
 DESCRIPTION
 DATE

 3
 ADDENDA 3
 MAY 5, 2025

 4
 ADDENDA 3
 MAY 6, 2025

A CUMENTS

NOTE ICTION DOC

SECOND FLOOR FINISH PLAN -AREA 'A'

DRAWN
HAE

DATE
APR 10, 2025

COMM. NO.
24060

- 1. FURNITURE N.I.C UNLESS TAGGED.
- 2. SEE FURNITURE SCHEDULE ON SHEET A200 FOR INFORMATION ON TAGGED
- SEE INTERIOR ELEVATIONS FOR TYPICAL TEACHING WALLS AND CLASSROOM DISPLAY RAILS MOUNTING HEIGHTS.

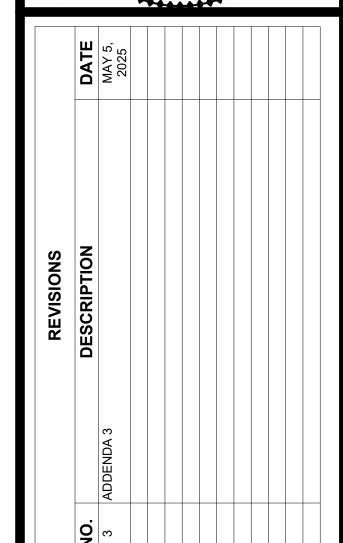


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AREA 'D'

AREA 'C'

KEY PLAN

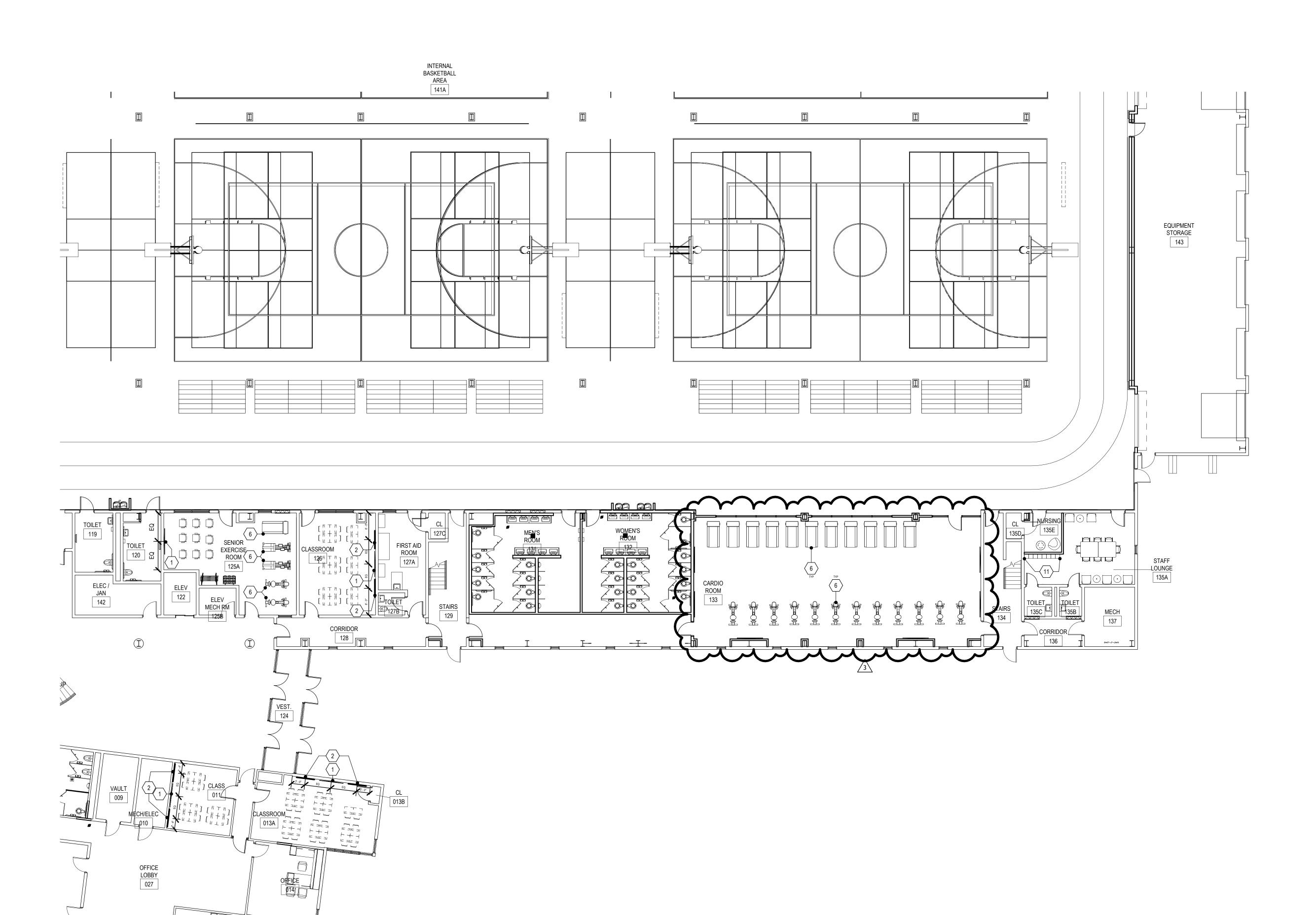
NOT TO SCALE

FIRST FLOOR FURNITURE PLAN - AREA 'A'

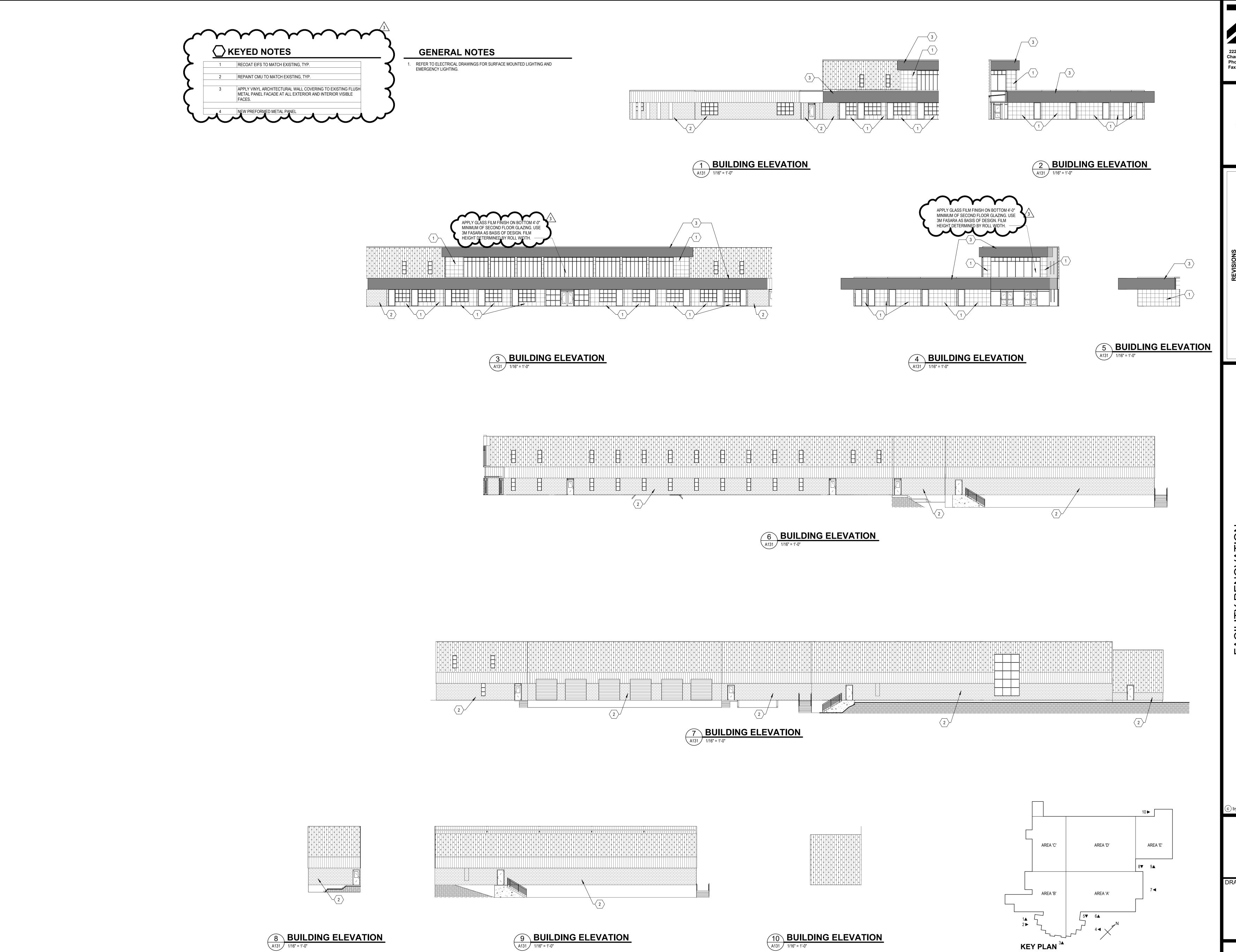
DATE **APR 10, 2025** COMM. NO. **24060**

A241





FURNITURE PLAN - AREA 'A'
3/32" = 1'-0"



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DATEMAY 5,
2025

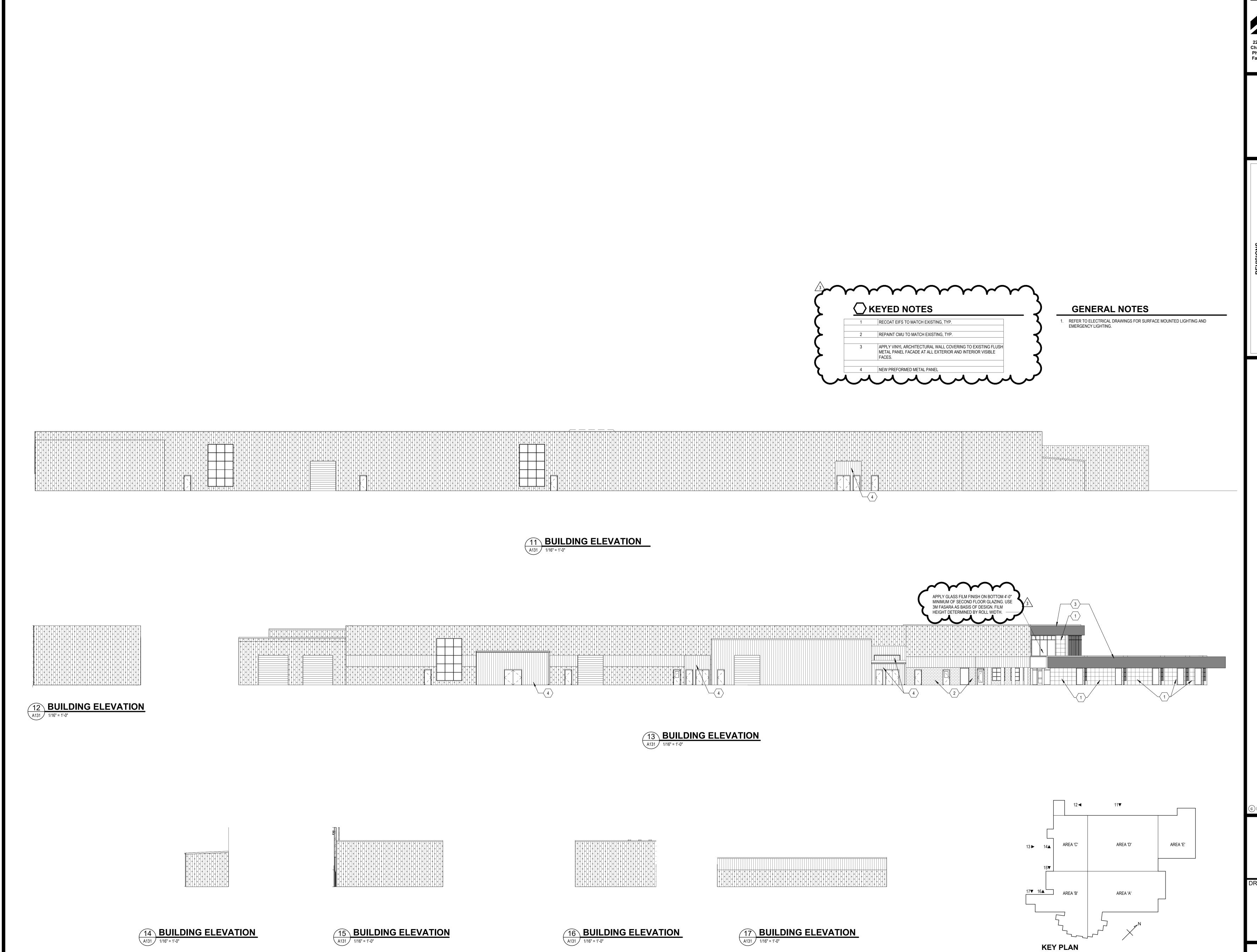
BUILDING ELEVATIONS

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A311

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BUILDING

ELEVATIONS

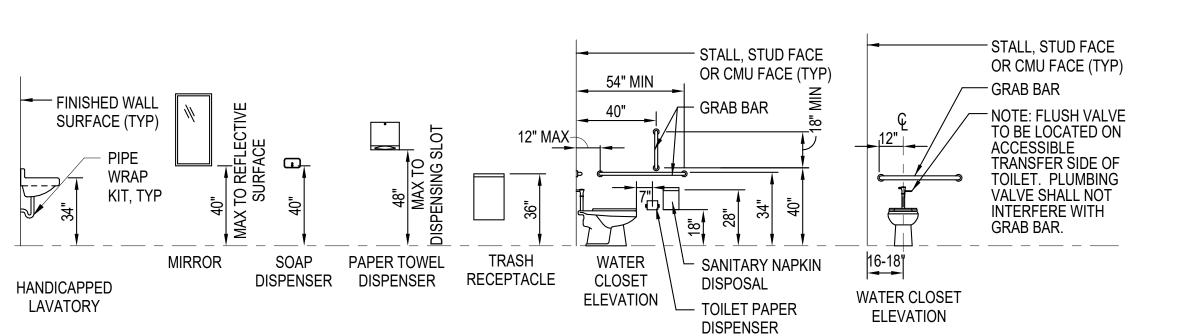
CHECKED APR 10, 2025 COMM. NO. 24060

A312

NOT TO SCALE



LEGEND 101 DOOR TAG A PARTITION TYPE TAG ROOM 001 **ROOM TAG** A101 INTERIOR WINDOW ELEVATION BUILDING SECTION, ELEVATION, A101 AND ENLARGED PLAN



TOILET ACCESSORIES MOUNTING SCHEDULE NO SCALE

NOTE: SOME ACCESSORIES SHOWN ON MOUNTING SCHEDULE MAY NOT BE REQUIRED FOR THIS PROJECT. REFER TO TOILET ACCESSORY SCHEDULE AND PROJECT MANUAL.



C1	COAT HOOK (BY MANUFACTURER)
G1	GRAB BAR - 48" LONG - HORIZONTAL
G2	GRAB BAR - 36" LONG - HORIZONTAL

MIRROR - 18"x36"

PAPER TOWEL DISPENSER (OFCI) LIQUID SOAP DISPENSER (OFCI)

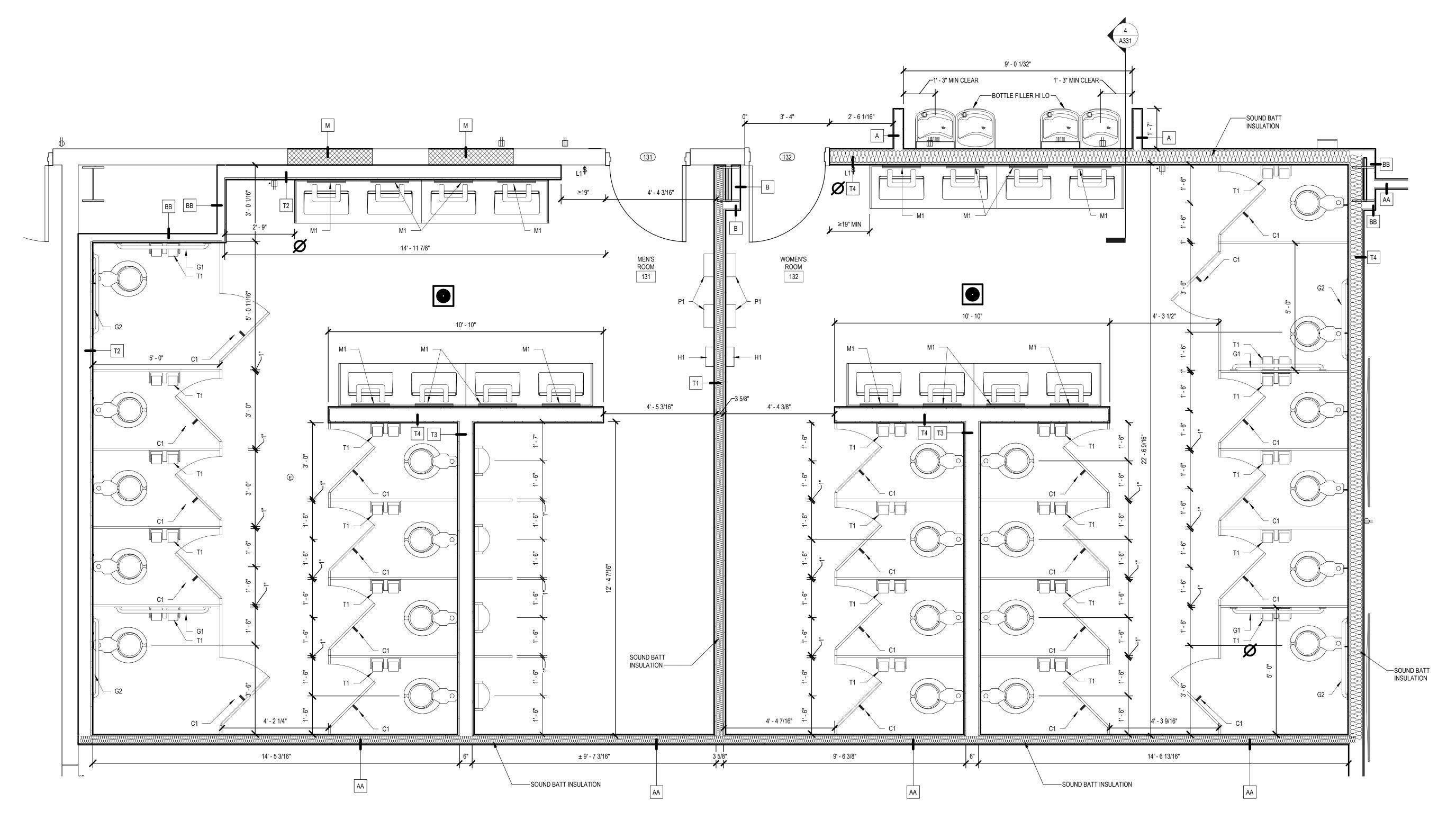
TOILET PAPER DISPENSER (OFCI) BABY CHANGING STATION (OFCI) ELECTRIC HAND DRYER (OFCI)

NOTES:

- MOUNT ALL TOILET ACCESSORIES AT HEIGHTS AS REQUIRED IN 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. 2. GC TO PROVIDE IN-WALL BLOCKING FOR ALL ACCESSORIES AT NEW
- WALLS. 3. PROVIDE PIPE WRAP KIT, TYP AT ACCESSIBLE LAVATORIES.

	WALL SCHEDULE										
MARK	CORE	HEAD	FINISH SIDE A	FINISH SIDE B							
Α	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GWB							
AA B	3-5/8" MTL STUD 3-5/8" MTL STUD	TIGHT TO STRUCTURE ABOVE CEILING	5/8" GWB 5/8" GWB	5/8" GWB							
BB	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB								
CC	6" MTL STUD 6" MTL STUD	ABOVE CEILING TIGHT TO STRUCTURE	5/8" GWB 5/8" GWB	5/8" GWB 5/8" GWB							
D	6" MTL STUD	ABOVE CEILING	5/8" GWB								
DD	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB								
<u>Е</u> М	2-1/2" MTL STUD CMU - MATCH EXIST	ABOVE CEILING INFILL	5/8" GWB								
T1	3-5/8" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE							
T2	6" MTL STUD	ABOVE CEILING	TILE								
Т3	6" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE							
T4	6" MTL STUD	TIGHT TO STRUCTURE	TILE ON WET WALL	5/8" MR GWI							

SEE A130 FOR WALL TYPE DETAILS



1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

222 Lee Street, West
Charleston, WV 25302
Phone: 304.342.0159
Fax: 304.345.8144

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ENLARGED

PLANS

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24060

— STALL, STUD FACE - STALL, STUD FACE OR CMU FACE (TYP) OR CMU FACE (TYP) — GRAB BAR FINISHED WALL - NOTE: FLUSH VALVE SURFACE (TYP) TO BE LOCATED ON ACCESSIBLE TRANSFER SIDE OF TOILET. PLUMBING VALVE SHALL NOT INTERFERE WITH GRAB BAR. _ __ _ _ _ _ SOAP PAPER TOWEL TRASH
DISPENSER DISPENSER RECEPTACLE WATER CLOSET - SANITARY NAPKIN DISPOSAL HANDICAPPED WATER CLOSET ELEVATION **ELEVATION** LAVATORY - TOILET PAPER DISPENSER

TOILET ACCESSORY LEGEND

C1	COAT HOOK (BY MANUFACTURER)
G1	GRAB BAR - 48" LONG - HORIZONTAL
G2	GRAB BAR - 36" LONG - HORIZONTAL
M1	MIRROR - 18"x36"
P1	PAPER TOWEL DISPENSER (OFCI)
S1	LIQUID SOAP DISPENSER (OFCI)
T1	TOILET PAPER DISPENSER (OFCI)
B1	BABY CHANGING STATION (OFCI)
H1	ELECTRIC HAND DRYER (OFCI)

NOTES:

- 1. MOUNT ALL TOILET ACCESSORIES AT HEIGHTS AS REQUIRED IN
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. 2. GC TO PROVIDE IN-WALL BLOCKING FOR ALL ACCESSORIES AT NEW
- 3. PROVIDE PIPE WRAP KIT, TYP AT ACCESSIBLE LAVATORIES.

TOILET ACCESSORIES MOUNTING SCHEDULE

NOTE: SOME ACCESSORIES SHOWN ON MOUNTING SCHEDULE MAY NOT BE REQUIRED FOR THIS PROJECT. REFER TO TOILET ACCESSORY SCHEDULE AND PROJECT MANUAL.

LEGEND

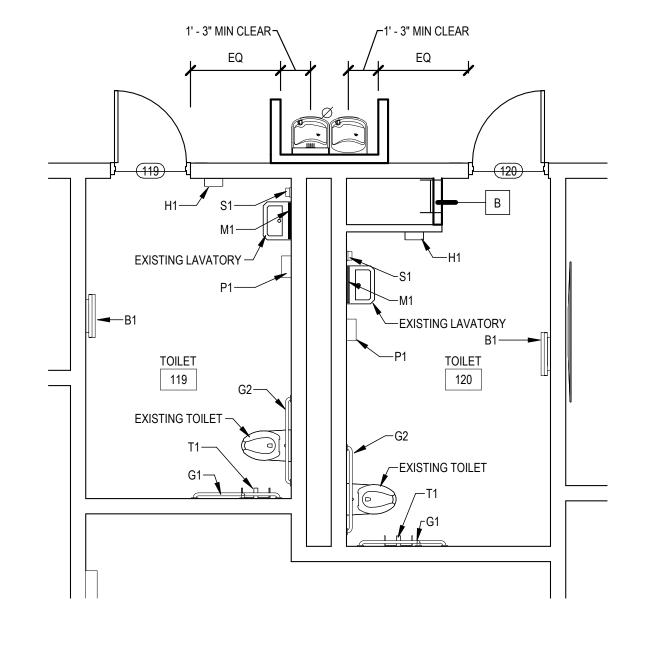
NO SCALE

(101)	DOOR TAG
_ A	PARTITION TYPE TAG
ROOM 001	ROOM TAG
A101	INTERIOR WINDOW ELEVATION
1 A101	BUILDING SECTION, ELEVATION, AND ENLARGED PLAN

	WAI	LL SCHEDUL	E.	
MARK	CORE	HEAD	FINISH SIDE A	FINISH SIDE B
Α	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GWB
AA	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GWB
В	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	
BB	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
CC	6" MTL STUD 6" MTL STUD	ABOVE CEILING TIGHT TO STRUCTURE	5/8" GWB 5/8" GWB	5/8" GWB 5/8" GWB
D	6" MTL STUD	ABOVE CEILING	5/8" GWB	
DD	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
Е	2-1/2" MTL STUD	ABOVE CEILING	5/8" GWB	
М	CMU - MATCH EXIST	INFILL		
T1	3-5/8" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T2	6" MTL STUD	ABOVE CEILING	TILE	
T3	6" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T4	6" MTL STUD	TIGHT TO STRUCTURE	TILE ON WET WALL	5/8" MR GWE

SEE A130 FOR WALL TYPE DETAILS

4' - 10"

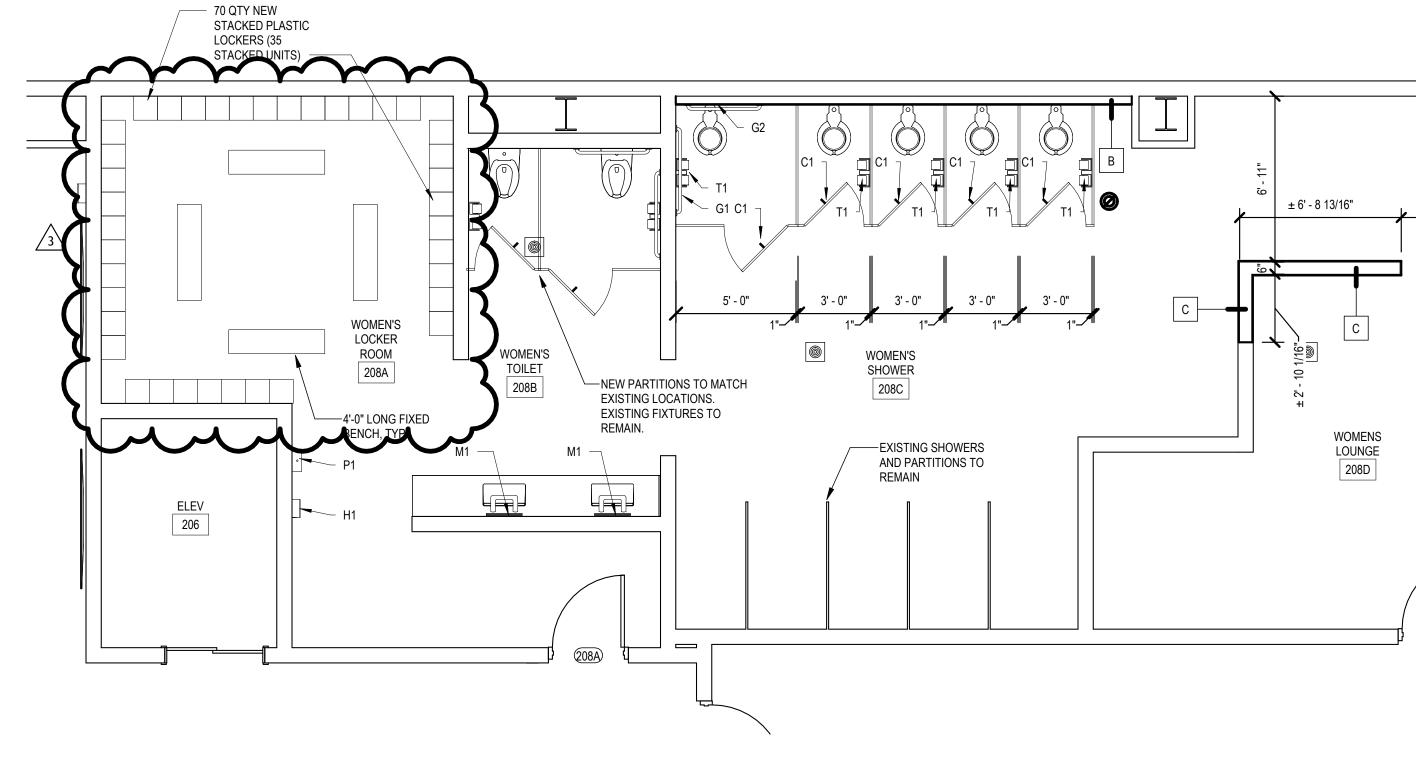


4 ENLARGED FAMILY TOILET

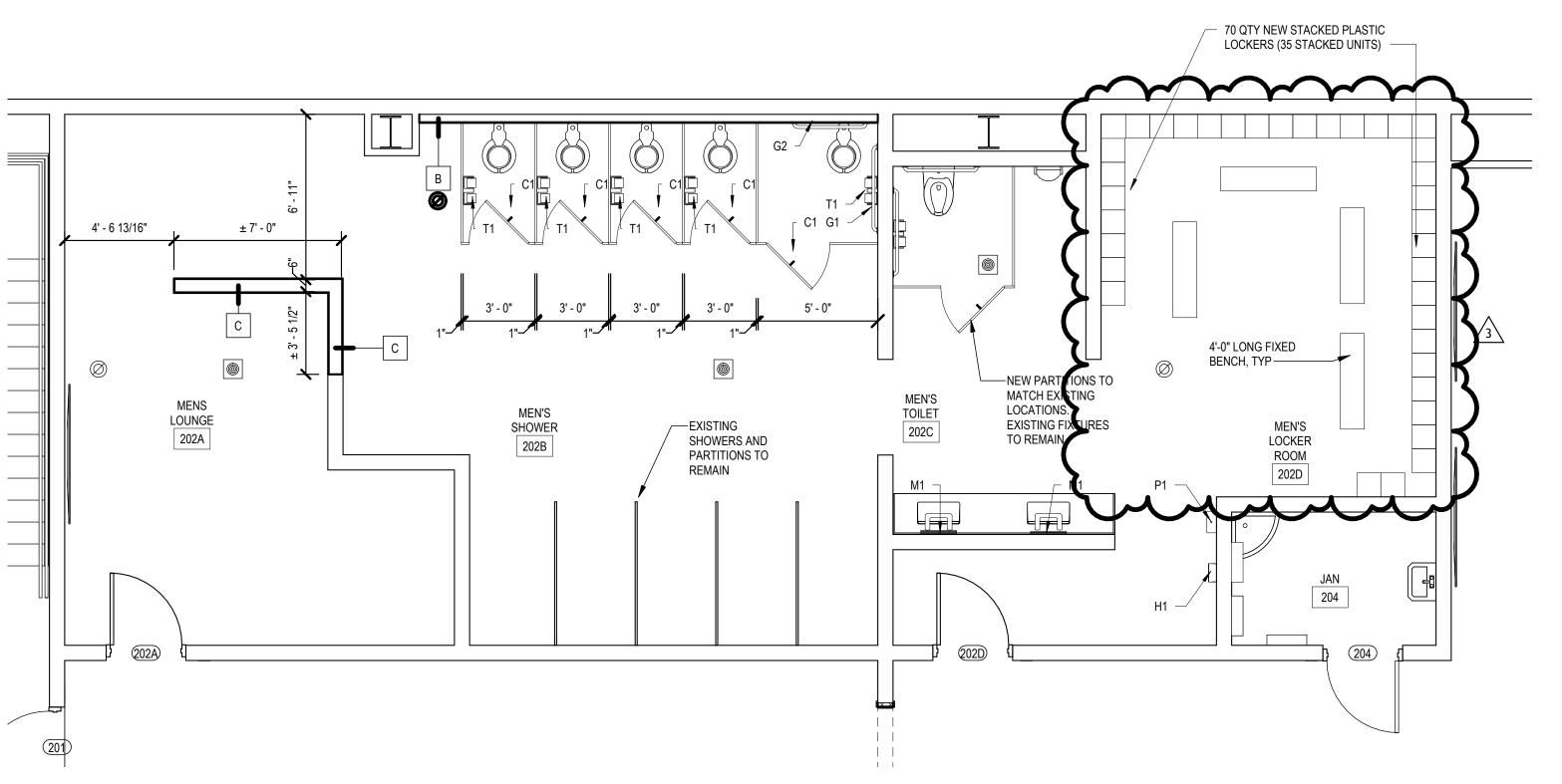
NEW CHASE AROUND COLUMN —

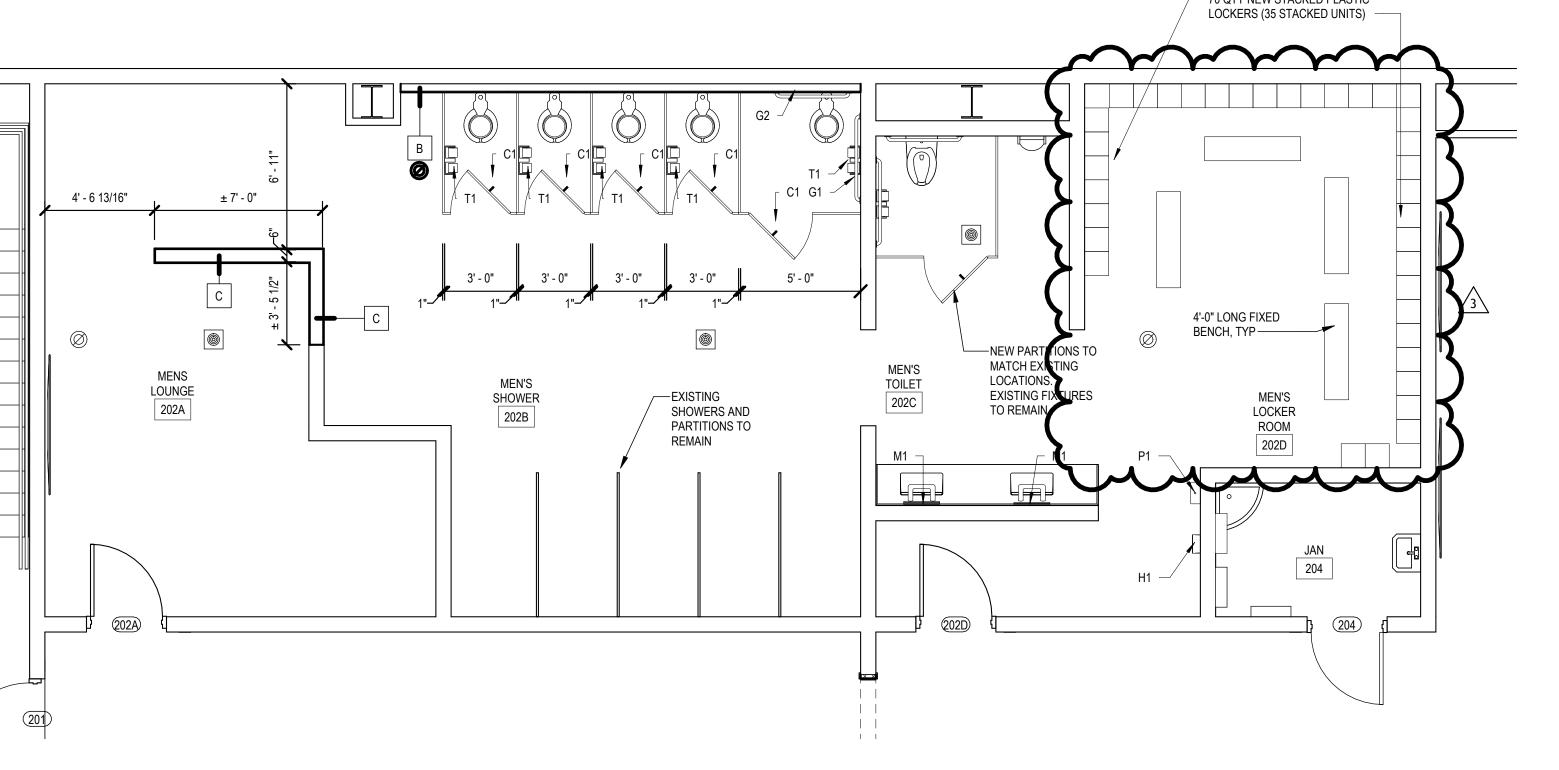
3 ENLARGED LOBBY TOILET

A131 1/4" = 1'-0"



WOMEN'S SECOND FLOOR BATHROOM 1/4" = 1'-0"





1 MEN'S SECOND FLOOR BATHROOM
1/4" = 1'-0"

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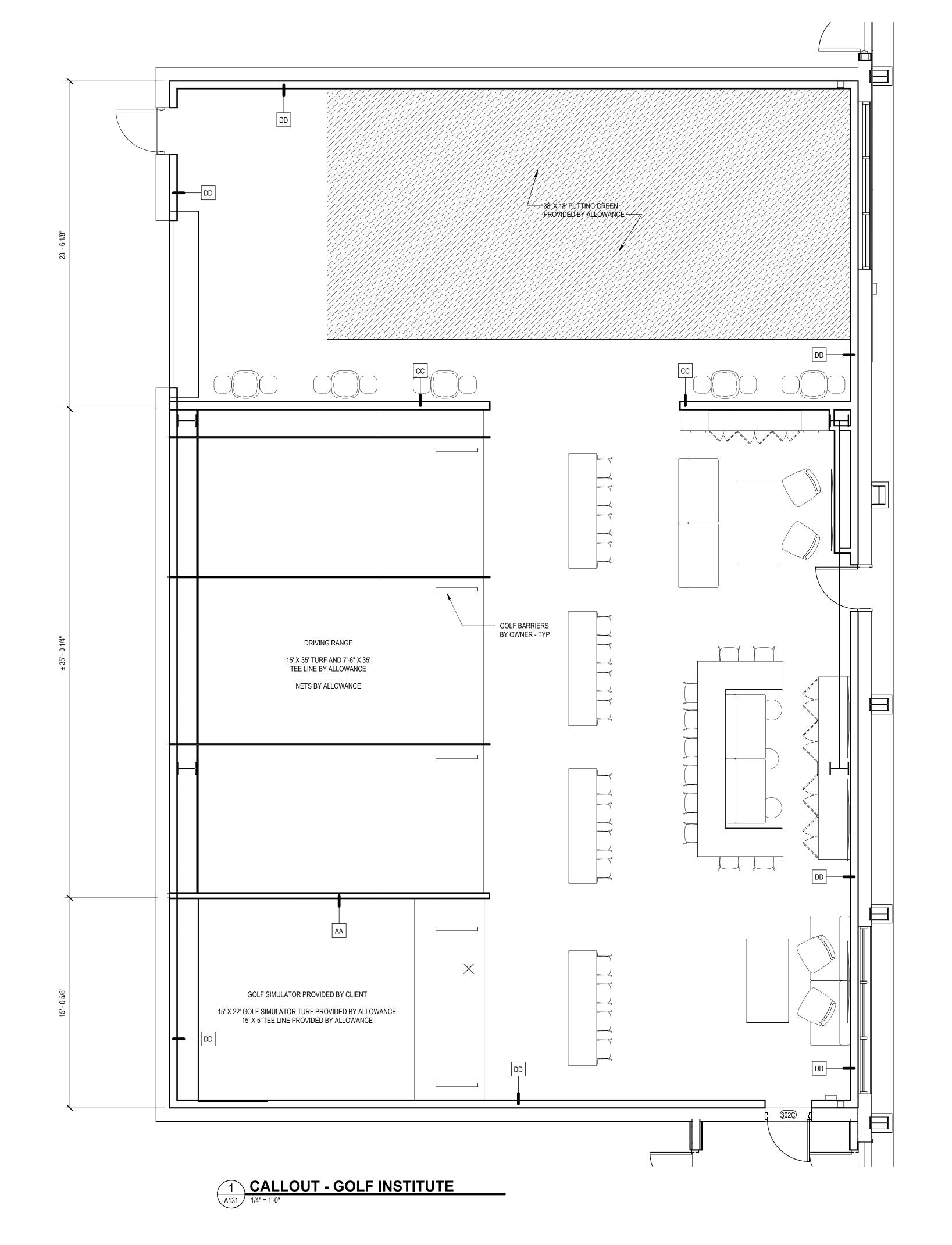
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ENLARGED PLANS

CHECKED APR 10, 2025

ABUSE RESISTANT GWB INSTALLED BELOW 8'-0" AFF AT ALL LOCATIONS UNLESS NOTED OTHERWSE

	WA	LL SCHEDUL	.E	
MARK	CORE	HEAD	FINISH SIDE A	FINIS SIDE
A	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GV
AA	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GV
В	3-5/8" MTL STUD	ABOVE CEILING	5/8" GWB	
BB	3-5/8" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
С	6" MTL STUD	ABOVE CEILING	5/8" GWB	5/8" GV
CC	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	5/8" GV
D	6" MTL STUD	ABOVE CEILING	5/8" GWB	
DD	6" MTL STUD	TIGHT TO STRUCTURE	5/8" GWB	
E	2-1/2" MTL STUD	ABOVE CEILING	5/8" GWB	
М	CMU - MATCH EXIST	INFILL		
T1	3-5/8" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T2	6" MTL STUD	ABOVE CEILING	TILE	
T3	6" MTL STUD	TIGHT TO STRUCTURE	TILE	TILE
T4	6" MTL STUD	TIGHT TO STRUCTURE	TILE ON WET WALL	5/8" MR (



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REVISIONS	DESCRIPTION							
		ADDENDA 3						
	NO.	3						

ENLARGED PLANS - GOLF INSTITUTE

DATE APR 10, 2025 COMM. NO. **24060**

CHECKED



5/8" GWB - PAINT, TYP

3-5/8" MTL STUD

JAMB ANCHORS

HM FRAME - PAINT

5 3/4"

PAINTABLE SEALANT, TYP

AT PERIMETER BOTH SIDES

✓— 6" MTL STUD

8 1/4"

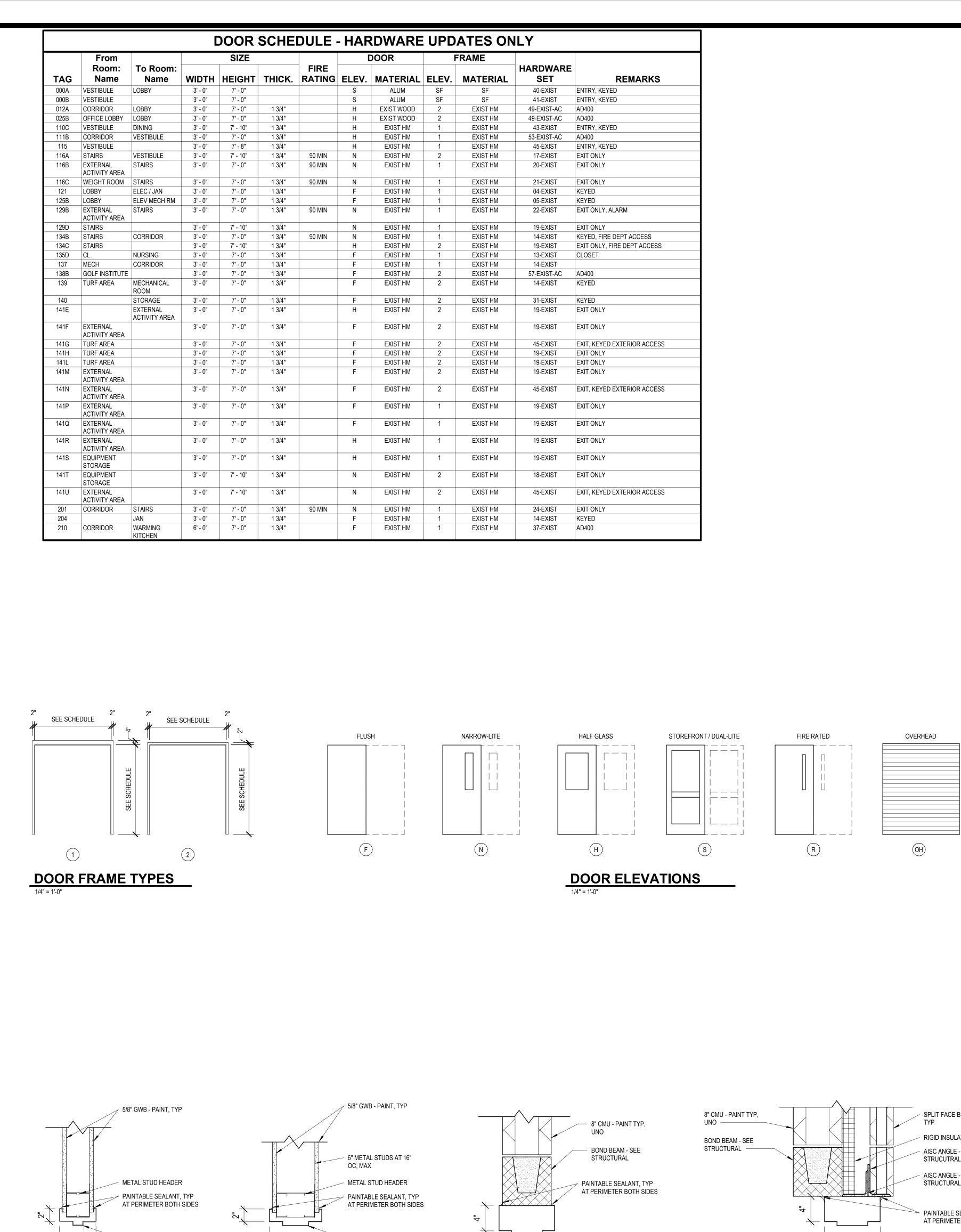
 \bigcirc B

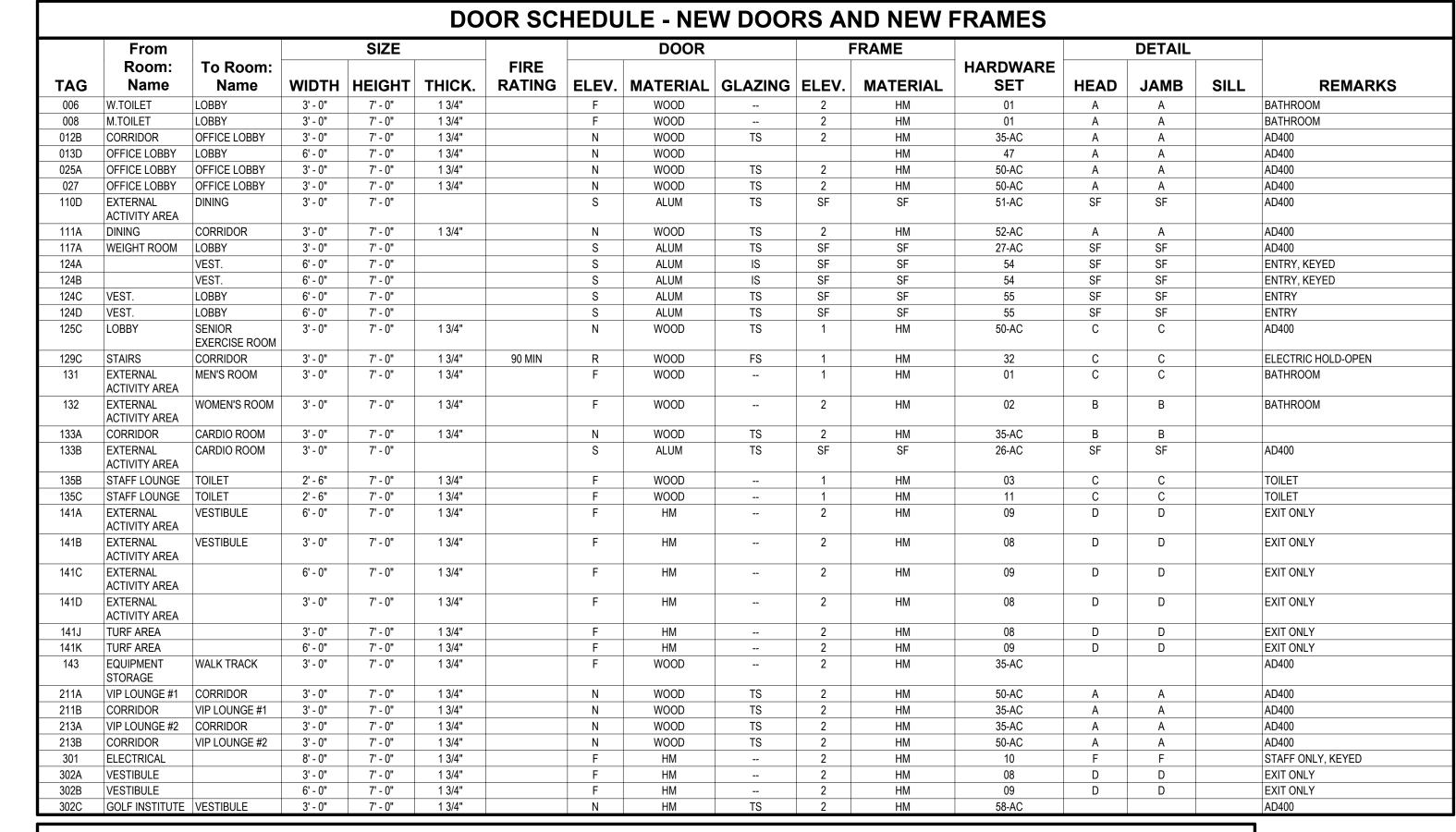
PAINTABLE SEALANT, TYP

AT PERIMETER BOTH SIDES

JAMB ANCHORS

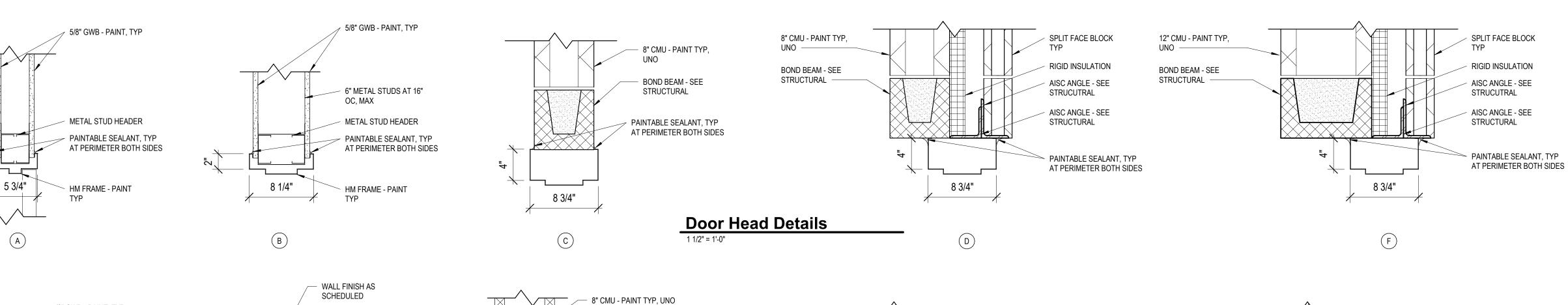
HM FRAME - PAINT





	Erom			CIZE				DOOR		FRAME			
TAG	From Room: Name	To Room: Name	WIDTH	SIZE HEIGHT	тніск.	FIRE RATING	ELEV.	MATERIAL	GLAZING		MATERIAL	HARDWARE SET	REMARKS
011	CORRIDOR	CLASS	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	2	EXIST HM	35-AC	AD400
013A	CORRIDOR	CLASSROOM	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	2	EXIST HM	35-AC	AD400
013B	CL	CLASSROOM	3' - 0"	7' - 0"	1 3/4"		F	WOOD		2	EXIST HM	07-EXIST	CLOSET
117B	CL	WEIGHT ROOM	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	33-EXIST	CLOSET
118A	VESTIBULE	LOBBY	6' - 0"	7' - 0"	1 3/4"		Н	WOOD	TS	1	EXIST HM	46-EXIST	MANUAL HOLD OPEN
118B	VESTIBULE	LOBBY	6' - 0"	7' - 0"	1 3/4"		Н	WOOD	TS	1	EXIST HM	46-EXIST	MANUAL HOLD OPEN
119	EXTERNAL ACTIVITY AREA	TOILET	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	12-EXIST	OCCUPANCY INDICATOR
120	EXTERNAL ACTIVITY AREA	TOILET	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	12-EXIST	OCCUPANCY INDICATOR
125A	EXTERNAL ACTIVITY AREA	SENIOR EXERCISE ROOM	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	1	EXIST HM	25-EXIST-AC	AD400
126A	EXTERNAL ACTIVITY AREA	CLASSROOM	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	1	EXIST HM	49-EXIST-AC	AD400
126B	CORRIDOR	CLASSROOM	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	1	EXIST HM	15-EXIST	CLASSROOM
127A	EXTERNAL ACTIVITY AREA	FIRST AID ROOM	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	1	EXIST HM	49-EXIST-AC	AD400
127B		TOILET	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	06	TOILET
127C	CL	FIRST AID ROOM	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	13-EXIST	CLOSET
127D	CORRIDOR	FIRST AID ROOM	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	49-EXIST-AC	AD400
128	LOBBY	CORRIDOR	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	1	EXIST HM	28-EXIST-AC	AD400
129A	CORRIDOR	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	R	WOOD	FS	1	EXIST HM	29-EXIST	ELECTRIC HOLD-OPEN
133C	CARDIO ROOM	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	F	WOOD		1	EXIST HM	21-EXIST	EXIT ONLY
134A	EXTERNAL ACTIVITY AREA	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	R	WOOD	FS	1	EXIST HM	34-EXIST	
135A	EXTERNAL ACTIVITY AREA	STAFF LOUNGE	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	25-EXIST-AC	AD400
135E	EXTERNAL ACTIVITY AREA	NURSING	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	56-EXIST-AC	REMOTE CONTROL
138A	EXTERNAL ACTIVITY AREA	GOLF INSTITUTE	3' - 0"	7' - 0"	1 3/4"		S	WOOD	TS	1	EXIST HM	25-EXIST-AC	AD400
202A	CORRIDOR	MENS LOUNGE	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	25-EXIST-AC	AD400
202D		MEN'S LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	25-EXIST-AC	AD400
207A		CORRIDOR	3' - 0"	7' - 0"	1 3/4"		N	WOOD	TS	1	EXIST HM	28-EXIST-AC	AD400
207B	CORRIDOR	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	R	WOOD	FS	1	EXIST HM	29-EXIST	ELECTRIC HOLD-OPEN
208A		WOMEN'S LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	25-EXIST-AC	AD400
208D	CORRIDOR	WOMENS LOUNGE	3' - 0"	7' - 0"	1 3/4"		F	WOOD		1	EXIST HM	25-EXIST-AC	AD400
209	CORRIDOR	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	R	WOOD	FS	1	EXIST HM	29-EXIST	ELECTRIC HOLD-OPEN
214	CORRIDOR	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	R	WOOD	FS	1	EXIST HM	28-EXIST-AC	AD400
215A	HOME ECONOMICS	STAIRS	3' - 0"	7' - 0"	1 3/4"	90 MIN	R	WOOD	FS	1	EXIST HM	28-EXIST-AC	AD400
215B	HOME ECONOMICS	STORAGE	3' - 0"	7' - 0"	1 3/4"		F	WOOD		2	EXIST HM	14-EXIST	CLOSET

	From Room:	To Room:		SIZE		FIRE		DOOR		HARDWARE		DETAIL		
TAG	Name	Name	WIDTH	HEIGHT	THICK.	RATING	ELEV.	T	GLAZING	SET	HEAD	JAMB	SILL	REMARKS
OH15	RETAIL	LOBBY	12' - 0"	8' - 0"	3"		ОН			59-RU				
OH16	VIP LOUNGE #1	VIP LOUNGE #2	8' - 0"	8' - 0"	3"		OH			59-RU				
	EQUIPMENT STORAGE	EXTERNAL ACTIVITY AREA	12' - 0"	14' - 0"	3"					59-RU				
OH20	FOLIPMENT	FXTFRNAI	12' - 0"	14' - 0"	3"					59-RU				



8" CMU - PAINT TYP,

GROUT CELL SOLID

AT JAMB -

Door Jamb Details

BLOCK TYP

8 3/4"

D

RIGID INSULATION

HM FRAME - PAINT

PAINTABLE SEALANT, TYP

GROUT CELL SOLID AT

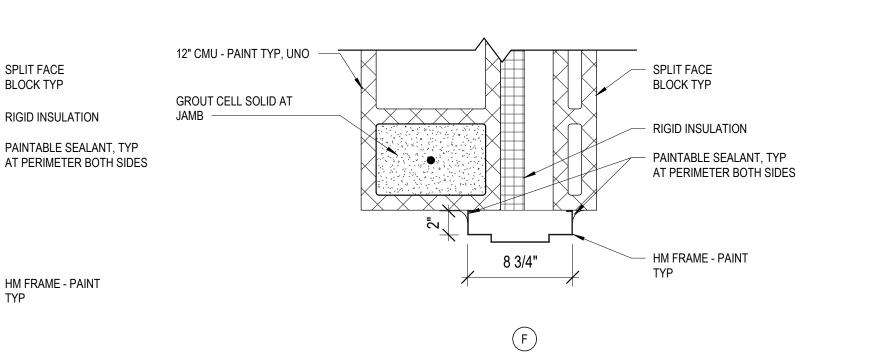
PAINTABLE SEALANT, TYP

JAMB ANCHORS

HM FRAME - PAINT

8 3/4"

AT PERIMETER BOTH SIDES



GLAZING TYPE

Keyed Notes - Glazing

FS FIRE SAFETY GLAZING

IS INSULATED TEMPERED SAFETY GLAZING

TS TEMPERED CLEAR FLOAT SAFETY GLAZING

DOOR ELEVATIONS AND SCHEDULES

ARCHITECTS

222 Lee Street, West 1116 S Main St

Charleston, WV 25302 Blacksburg, VA 24060

Phone: 304.342.0159 Phone: 540.552.2151

www.zmm.com

RANDY S. JONES

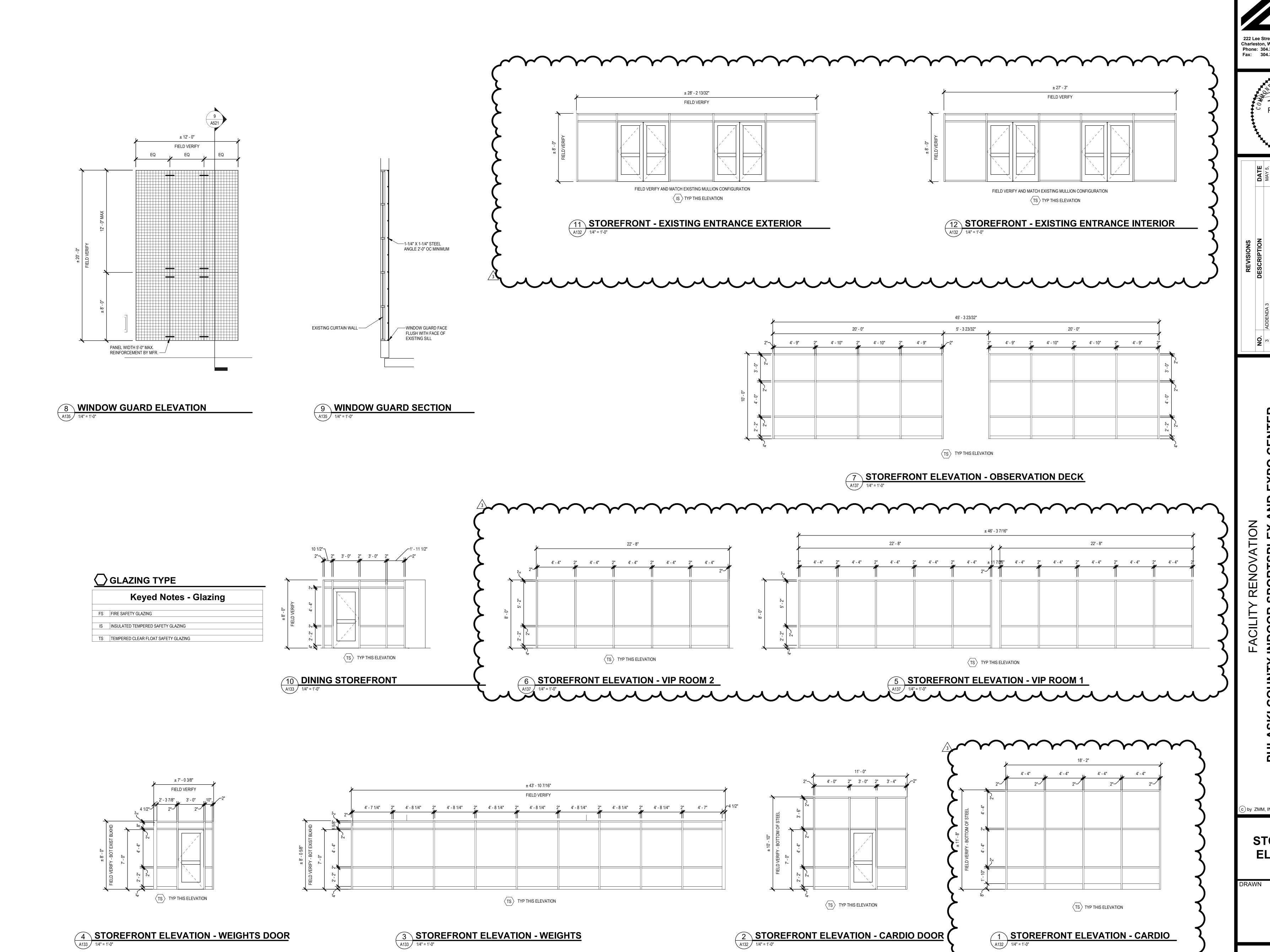
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Fax: 304.345.8144

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STOREFRONT **ELEVATIONS**

CHECKED DATE **APR 10, 2025**

24060

COMM. NO.