

This addendum is hereby made part of the Contract Documents as though it were originally included therein and must be acknowledged by the bidder in the proper place on the bid form.

<u> Project Manual – VOL I</u>

- Reference AIA Document AIA A132-2019 Sample Agreement
 A. DELETE reference to SED Control Numbers. SUBSTITUTE the following SED Control Numbers: 22-14-01-04-0-001-014 Main Building 22-14-01-04-5-003-002 Bus Garage
- Reference AIA Document AIA A232-2019 General Conditions

 DELETE reference to SED Control Numbers. SUBSTITUTE the following SED Control Numbers: 22-14-01-04-0-001-014 Main Building 22-14-01-04-5-003-002 Bus Garage
- Reference Specification Section 04 2000 Unit Masonry
 A. DELETE in its entirety. SUBSTITUTE the attached revised Section 02 4000 Unit Masonry

Project Manual – VOL II

Reference Specification Section 08 7100 – Door Hardware A. DELETE in its entirety. SUBSTITUTE the attached revised Section 08 7100 – Door Hardware.

Contract Drawings – VOLUME I

- Reference Sheet No. AD2/AA103 Architectural General Notes, Abbreviations and Legends
 A. ADD the following General Sheet Note: "The roof abatement work is to be completed by the Roof Contractor."
- 6. Reference Sheet No. AS000 Architectural General Notes, Abbreviations and Legends A. DELETE in its entirety. SUBSTITUTE the attached revised Sheet No. AS000.
- Reference Sheet No. AD100 First Floor Demolition Reference Plan
 ADD Detail 1 from the attached Sheet No. AD3-A1 Partial Basement Floor Plan.
- 8. Reference Sheet No. A102 First Floor Plan Area B
 A. DELETE in its entirety. SUBSTITUTE the attached revised Sheet No. A102.
- Reference Sheet No. A800 Schedules and Details
 A. DELETE in its entirety. SUBSTITUTE the attached revised Sheet No. A800.

10. Reference Sheet No. FS-101 – Foodservice Equipment Layout

A. On Foodservice Equipment Schedule, **ADD** the following to Item No. 21 and Item No. 67: "(*Furnished By Owner, installed by GC*)."

CLARIFICATION: These pieces of equipment will be purchased by the owner. The equipment installation and connections remain in the scope of work of the respective contractors.

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LaFargeville Central School District Capital Improvements Project Project No. 2022-052

Contract Drawings – VOLUME II

11. Refer to Sheet M113 – Roof Plan:

- A. **ADD** the following General Note:
 - "2. The Mechanical Contractor is responsible for the temporary removal and/or disconnection of roof top equipment as required to accommodate the roof recovery system. Coordinate with Roof Contractor."

12. Refer to Sheet E700 – Electrical Riser Diagram:

- A. Referring to Wiring Legend; **DELETE** General Cabling Note #1 in its entirety. **SUBSTITUTE** with the following:
 - "1. All fire alarm cabling shall be as follows: Use red MC cable for cabling in concealed spaces, red EMT conduit in unfinished spaces and basement, and single channel wire mold with matching boxes for devices in finished space."

Respectfully submitted,

Tavlor J. Woolf, AIA. NCARB Associate / Project Architect

TJW:lr Enclosures

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SECTION 04 2000 UNIT MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Concrete Block.
- B. Mortar and Grout.
- C. Reinforcement and Anchorage.
- D. Lintels.

1.02 RELATED REQUIREMENTS

- A. Section 03 2000 Concrete Reinforcing: Reinforcing steel for grouted masonry.
- B. Section 04 0511 Mortar and Masonry Grout.
- C. Section 05 5000 Metal Fabrications: Loose steel lintels.

1.03 REFERENCE STANDARDS

- A. TMS 402/602 Building Code Requirements and Specification for Masonry Structures 2022, with Errata.
- B. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2023.
- C. ASTM A641/A641M Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire 2019.
- D. ASTM C90 Standard Specification for Loadbearing Concrete Masonry Units 2022.
- E. ASTM C91/C91M Standard Specification for Masonry Cement 2023.
- F. ASTM C129 Standard Specification for Nonloadbearing Concrete Masonry Units 2022.
- G. ASTM C144 Standard Specification for Aggregate for Masonry Mortar 2018.
- H. ASTM C150/C150M Standard Specification for Portland Cement 2022.
- I. ASTM C207 Standard Specification for Hydrated Lime for Masonry Purposes 2018.
- J. ASTM C270 Standard Specification for Mortar for Unit Masonry 2019a, with Editorial Revision.
- K. ASTM C404 Standard Specification for Aggregates for Masonry Grout 2018.
- L. ASTM C476 Standard Specification for Grout for Masonry 2023.
- M. ASTM C979/C979M Standard Specification for Pigments for Integrally Colored Concrete 2016.
- N. TMS 402/602 Building Code Requirements and Specification for Masonry Structures 2022, with Errata.
- O. IMIAWC (CW) Recommended Practices & Guide Specifications for Cold Weather Masonry Construction; International Masonry Industry All-Weather Council; 1993.
- P. IMIAWC (HW) Recommended Practices & Guide Specifications for Hot Weather Masonry Construction; International Masonry Industry All-Weather Council; current edition.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal process.
- B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.
- C. Samples: Submit four (4) samples of facing brick units to illustrate finish and appearance, color, texture, and extremes of color range for each type or color of brick or CMU selected.
- D. Manufacturer's Certificate: Certify that masonry units meet or exceed Specified Requirements.

1.05 QUALITY ASSURANCE

- A. Comply with provisions of TMS 402/602, except where exceeded by Requirements of the Contract Documents.
 - 1. Maintain one copy of each document on Project Site.

1.06 MOCK-UP

- A. Construct a masonry wall as a mock-up panel sized 4 feet long by 4 feet high, which includes all Specified masonry unit types, mortar and accessories and structural backup.
- B. Locate where directed.
- C. Mock-up, if acceptable, may remain as part of the Work.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with Referenced Standards and as follows:
 - 1. Size: Standard units with nominal face dimensions of 16 by 8 inches and nominal depths as indicated on Drawings for specific locations.
 - 2. Integral Water Repellent: All concrete masonry units used in exterior cavity wall, including lintel block shall contain the recommended amount of integral water-repellent known as the "Dry-Block System, admix", as manufactured by W.R. Grace Chemical Company or equal.
 - 3. Special Shapes: At all external corners at interior walls, concrete block shall be provided with bull- nosed corners.
 - 4. Load-Bearing Units: ASTM C90, normal weight.
 - a. Hollow block, as indicated shall be two core standard unit and shall be a minimum of twenty- eight (28) days old.
 - b. Exposed faces: Manufacturer's standard neutral color and texturewhere indicated.
 - 5. Non-Loadbearing Units: ASTM C129.
 - a. Hollow block, as indicated shall be two core standard unit and shall be a minimum of twenty- eight (28) days old.
 - b. Normal weight.
 - 6. Color: As selected by Architect/Engineer.
 - 7. Comply with ASTM C90 for finish and appearance requirements. Do not include units in the Work which do not meet the minimum established Requirements.

2.02 BRICK UNITS

- A. Manufacturers:
 - 1. Belden Brick; Belcrest: www.beldenbrick.com/#sle.
 - 2. General Clay or approved equal.
 - 3. Substitutions: See Section 01 600 Product Requirements.
- B. Facing Brick: ASTM C216, Type FBS, Grade Sw.
 - 1. Color and texture as selected by Architect/Engineer or match existing units at each site.
 - 2. Actual Size as indicated on Drawings.
 - 3. Special Shapes: Molded units as required by conditions indicated unless standard units can be sawn to produce equivalent effect.
 - 4. Compressive strength as indicated on drawings, measured in accordance with ASTM C67/C76M.
- C. Building (Common) Brick: ASTM C62, Grade SW; solid units.
 - 1. Nominal size as indicated on Drawings.
 - 2. Compressive strength as indicated on Drawings, measured in accordance with ASTM C67/C67M.
- D. Hollow Facing and Building Brick: ASTM C652, Grade SW; Type HBS; Class H40V.
 - 1. Color and texture as selected by Architect/Engineer or match existing units at each site.
 - 2. Nominal size as indicated on Drawings.
 - 3. Compressive strength as indicated on Drawings, measured in accordance with ASTM C67/C67M.

2.03 MORTAR AND GROUT MATERIALS

- A. Mortar mix shall consist of prepackaged blend of portland cement and hydrated lime.
 - 1. Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample.
 - 2. Hydrated Lime: ASTM C207, Type N.

- 3. Grout Aggregate: ASTM C404.
- B. Sand shall conform to the requirements of ASTM C 144, except that grading shall comply with the following limits.
 - 1. No. 4 Sieve: 100 percent passing.
 - 2. No. 8 Sieve: 95 to 100 percent passing.
 - 3. No. 16 Sieve: 60 to 100 percent passing.
 - 4. No. 30 Sieve: 35 to 70 percent passing.
 - 5. No. 50 Sieve: 15 to 35 percent passing.
 - 6. No. 100 Sieve: 2 to 15 percent passing.
 - 7. No. 200 Sieve: 0 to 2 percent passing.
- C. Pigments for Colored Mortar: Iron or chromium oxides with demonstrated stability and colorfastness. Pigments for colored mortar shall be nonfading and alkali proof and in accordance with ASTM C 979 and approved by the Architect/Engineer.
- D. Water: Clean and potable.
- E. Calcium Chloride: Calcium chloride or admixtures containing calcium chloride shall not be used.
- F. Other Admixtures: Air entraining agents, accelerators, retarders, or other admixtures shall not be used without the express written consent of the Architect/Engineer.
- G. Moisture-Resistant Admixture: Water repellent compound designed to reduce capillarity.
 1. Acceptable Product: Dry Block or equal.

2.04 REINFORCEMENT AND ANCHORAGE

- A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi), deformed billet bars; galvanized.
- B. Single Wythe Joint Reinforcement: Truss type; ASTM A 82/A 82M steel wire, hot dip galvanized after fabrication to ASTM A 153/A 153M, Class B; 3/16-inch/0.1875 inch side rods with 9 guage/ 0.1483 inch cross rods; width as required to provide not more than 1 inch and not less than 1/2 inch of mortar coverage on each exposure. Single wythe joint reinforcement shall be Dur-O-Wal D/A 3100 truss type as manufactured by Dur-O-Wal, Inc. or approved equal.
- C. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B2. Wood/Metal stud or Concrete block back-up shall be X-SEAL Anchor with X-Seal Tape as manufactured by Hohmann & Barnard or equal. Structural Steel back-up shall be #359 as manufactured by Hohmann & Barnard or equal.
 - 1. Anchor plates: Not less than 0.075 inch thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
 - 2. Wire ties: Triangular shape, 0.1875 inch thick. Vee Byna-Tie as manufactured by Hohmann & Barnard Inc. or equal.
 - 3. Vertical adjustment: Not less than 2 inches.

2.05 ACCESSORIES

- A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.
- B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; 1 inch wide by maximum lengths available.
- C. Mortar Maze Cell Vents: 3/8 inch x 2-1/2 inch x 3-3/8 inch Durable polypropylene as manufactured by Advanced Building Products or equal. Color as selected by Architect/Engineer.
- D. Air Space Maintenance and Drainage System: Dovetail Mortar Trap by Hohmann & Barnard or equal.
 - 1. Required thickness of mat for air space between insulation and exterior wythe.
 - a. 3/4 inch for air spaces 1 inch to 1-1/8 inch.
 - b. 1 inch for air spaces 1-1/4 inch to 1-3/8 inch.
 - c. 1-1/4 inches for air spaces greater than or equal to 1-1/2 inches.
- E. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

2.06 MORTAR AND GROUT MIXES

- A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
 - 1. Masonry below grade and in contact with earth: Type S.

- 2. Exterior, loadbearing masonry: Type N.
- 3. Exterior, non-loadbearing masonry: Type N.
- 4. Interior, loadbearing masonry: Type N.
- 5. Interior, non-loadbearing masonry: Type N.
- 6. Masonry Shear Walls: Type M
- B. Grout: ASTM C476; consistency required to fill completely volumes indicated for grouting; fine grout for spaces with smallest horizontal dimension of 2 inches or less; coarse grout for spaces with smallest horizontal dimension greater than 2 inches.
- C. Admixtures: Add to mixture at manufacturer's recommended rate and in accordance with manufacturer's instructions; mix uniformly.
 - 1. Minimum 28 Day Compressive Strength: 2500 psi.
- D. Mixing: Use mechanical batch mixer and comply with referenced standards. Mix for at least three (3) minutes after all ingredients are in the drum, and at least long enough to make a thorough, complete intimate mix of materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field conditions are acceptable and are ready to receive masonry. Correct conditions detrimental to timely and proper Completion of the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Do not commence installation until foundations are clean, rough and level. Remove all laitance and foreign material.
- D. Verify that the foundation elevation is such that the bed joint thickness will be between 1/4 inch and 3/4 inch and that the foundation is true to line with masonry not projecting over more than 1/4 inch.
- E. Verify that built-in items are in proper location, and ready for roughing into Masonry Work.
- F. Clean projecting dowels free from loose scale, dirt, concrete and other material that will inhibit bond.

3.02 PREPARATION

- A. Direct and coordinate placement of metal anchors supplied for installation under other Sections.
- B. Provide temporary bracing during installation of Masonry Work. Maintain in place until building structure provides permanent bracing.

3.03 MORTAR MIXING

- A. Measuring of materials shall be either by weight or volume such that the Specified proportions of mortar materials can be controlled and accurately maintained.
- B. Sand shall not be measured by the shovel.
- C. Mortar shall be mixed in a mechanical batch mixer for at least three (3) minutes, but not more than five
 - 1. (5) minutes with the maximum amount of water which will produce a workable consistency.
- D. If, within two (2) hours of mixing, excessive water is lost from the mortar by evaporation, retemper the mortar.
- E. Discard all mortar which is more than two and one-half (2-1/2) hours old.

3.04 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
 - 1. Bond: Running, or as otherwise indicated.
 - 2. Coursing: One unit and one mortar joint to equal 8 inch.
 - 3. Mortar Joints: Concave.

3.05 PLACING AND BONDING

- A. Lay hollow masonry units with face shell bedding on head and bed joints.
- B. Lay all masonry in running bond unless otherwise shown on the Contract Drawings. Use only brick that are clean and free from dust and other foreign matter.
- C. Furrowing of bed joints shall not be permitted.
- D. Remove excess mortar as Work progresses. Do not permit mortar to drop and accumulate into cavity air space or to plug weeps.
- E. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- F. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

3.06 MINIMUM REQUIREMENTS OF COLD WEATHER CONSTRUCTION

- A. Air Temperature (degrees F):
 - 1. Above 40:
 - a. Heating of Materials: Normal masonry procedures.
 - b. Protection: Cover walls with plastic or canvas at end of workday to prevent water entering masonry.
 - 2. Below 40:
 - a. Do not lay masonry units having a temperature below 20 degrees F. Remove visible ice on masonry units before the unit is laid in the masonry.
 - b. Heating of Materials: Heat mortar sand or mixing water to maintain mortar temperatures between 40 and 120 degrees F at the time of mixing. Maintain mortar above freezing until used in masonry.
 - c. Protection: Cover walls with plastic or canvas at end of workday to prevent water entering masonry.
 - d. Mean daily temperature is between 40 and 32 degrees F:
 - 1) Protect completed masonry from rain or snow by covering with a weather resistive membrane for twenty-four (24) hours after construction.
 - 3. Below 32:
 - a. Heating of Materials: In addition to the above, heat the sand. Frozen sand and frozen wet masonry units must be thawed.
 - b. Protection: With wind velocities over 10 mph, provide windbreaks during the workday and cover walls and materials at the end of the workday to prevent wetting and freezing.
 - c. Mean daily temperature is between 32 and 25 degrees F:
 - 1) Completely cover masonry with a weather resistive membrane for twenty-four (24) hours after construction.
 - d. Mean daily temperature is between 25 and 20 degrees F:
 - 1) Completely cover completed masonry with insulation blankets or equal protection for twenty-four (24) hours after construction.
 - e. Ambient Temperature Between 25 and 20 degrees F:
 - 1) Use heat sources on both sides of the masonry under construction and install wind breaks when wind velocity is in excess of 10 mph.
 - f. Mean daily temperature is below 20 degrees F:
 - Maintain masonry temperature above 32 degrees F for a twenty-four (24) hour period after construction by enclosure with supplementary heat, by electric heating blankets, by infrared heat lamps, or by other acceptable methods as approved by the Architect/Engineer.
 - g. Ambient Temperature Below 20 degrees F:
 - 1) Provide an enclosure for the masonry under construction and use heat source to maintain temperatures above 32 degrees F within the enclosure.

3.07 MINIMUM REQUIREMENTS OF HOT WEATHER CONSTRUCTION

- A. Preparation:
 - 1. When Ambient temperature exceeds 100 degrees F, or exceeds 90 degrees F with a wind velocity greater than 8 mph:
 - a. Maintain sand piles in a damp, loose condition.

- b. Provide necessary conditions and equipment to produce mortar having a temperature below 120 degrees F.
- 2. When Ambient temperature exceeds 115 degrees F, or exceeds 105 degrees F with a wind velocity greater than 8 mph:
 - a. Maintain sand piles in a damp, loose condition.
 - b. Provide necessary conditions and equipment to produce mortar having a temperature below 120 degrees F and shade materials and mixing equipment from direct sunlight.
- B. During Construction:
 - 1. When Ambient temperature exceeds 100 degrees F, or exceeds 90 degrees F with a wind velocity greater than 8 mph:
 - a. Maintain temperature of mortar and grout below 120 degrees F.
 - b. Flush mixer, mortar transport container, and mortar boards with cool water before they come into contact with mortar ingredients or mortar.
 - c. Maintain mortar consistency by re-tempering with cool water.
 - d. Use mortar within two (2) hours of initial mixing.
 - 2. When Ambient temperature exceeds 115 degrees F, or exceeds 105 degrees F with a wind velocity greater than 8 mph:
 - a. Maintain temperature of mortar and grout below 120 degrees F.
 - b. Flush mixer, mortar transport container, and mortar boards with cool water before they come into contact with mortar ingredients or mortar.
 - c. Maintain mortar consistency by re-tempering with cool water.
 - d. Use mortar within two (2) hours of initial mixing.
 - e. Use cool mixing water for mortar and grout.
 - f. Ice is permitted in the mixing water prior to use. Do not permit ice in the mixing water when added to the other mortar or grout materials.
- C. Protection:
 - 1. When Ambient temperature exceeds 100 degrees F, or exceeds 90 degrees F with a wind velocity greater than 8 mph:
 - a. Fog spray all newly constructed masonry until damp, at least three times a day until the masonry is three (3) days old.

3.08 REINFORCEMENT AND ANCHORAGE - SINGLE WYTHE MASONRY

- A. Install horizontal joint reinforcement 16 inches on vertical center.
- B. Place masonry joint reinforcement in firstand second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place continuous joint reinforcement in firstand second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches.
- E. Reinforcestack bonded unit joint corners and intersections with strap anchors 16 inches on center.

3.09 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER

- A. Install horizontal joint reinforcement 16 inch on vertical center.
- B. Place masonry joint reinforcement in firstand second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place continuous joint reinforcement in firstand second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches.
- E. Masonry Back-Up: Embed anchors to bond veneer at maximum 16 inches on center vertically and 24 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center vertically.
- F. Stud Back-Up: Secure veneer anchors to stud framed back-up and embed into masonry veneer at maximum 16 inches on center vertically and 16 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.
- G. Reinforcestack bonded unit joint corners and intersections with strap anchors 16 inches on center.

3.10 REINFORCEMENT AND ANCHORAGES - MULTIPLE WYTHE UNIT MASONRY

- A. Install horizontal joint reinforcement 16 inches on vertical center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches.

3.11 LINTELS

A. Install loose steel lintels over openings. Provide steel lintels in accordance with the lintel schedule as indicated in the Contract Drawings.

3.12 GROUTED COMPONENTS

- A. Timing: Do not grout until masonry has cured at least twenty-four (24) hours.
- B. At bearing locations, fill masonry cores with grout for a minimum 12 inches either side of opening.

3.13 SITE TOLERANCES

- A. Erect masonry within the following tolerances from the Specified dimensions.
 - 1. Dimension of elements:
 - a. In cross section or elevation: -1/4 inch, + 1/2 inch.
 - b. bed: +/- 1/8 inch.
 - 1) head: 1/4", + 3/8 inch. 3) collar: 1/4", + 3/8 inch.
 - c. Grout space of cavity width, except for masonry walls passing framed construction: -1/4", + 3/8".
 - 2. Elements:
 - a. Variation from level:
 - 1) bed joints: +/- 1/4 inch in 10 feet; +/- 1/2 inch maximum.
 - 2) top surfacing of bearing walls: +/- 1/4 inch in 10 feet; +/- 1/2 inch maximum.
 - b. Variation from plumb:
 - 1) +/- 1/4 inch in 10 feet; +/- 3/8 inch in 20 feet; +/- 1/2 inch maximum.
 - c. True to a line:
 - 1) +/- 1/4 inch in 10 feet; +/- 3/8 inch in 20 feet; +/- 1/2 inch maximum.
 - d. Alignment of columns and walls (bottom versus top):
 - 1) bearing walls: +/- 1/2 inch.
 - 2) non-bearing walls: +/- 3/4 inch.
 - 3. Locations of elements:
 - a. Indicated in plan: +/- 1/2 inch in 20 feet; +/- 3/4 inch maximum.
 - b. Indicated in elevation: +/- 1/2 inch in story height; +/- 3/4 inch maximum.
 - 4. If the above conditions cannot be met due to previous construction, notify the Architect/Engineer.

3.14 CLEANING

- A. Remove excess mortar and mortar droppings.
- B. At the completion of this portion of the Work, visually inspect the Work of this Section. Point or cut out and repoint if necessary, all holes and defective joints.
- C. Replace defective mortar. Match adjacent Work.
- D. Replace defective masonry units not conforming to ASTM appearance Requirements.
- E. Thoroughly clean all brick surfaces to be left exposed in the finished work by brush, water, and an approved cleaning solution, removing all traces of mortar, grout efflorescence, and foreign matter. In the event ordinary cleaning is not adequate, provide acid cleaning when so directed by the Architect/Engineer and at no additional cost to the Owner.

3.15 PROTECTION

A. Without damaging Completed Work, provide protective boards at exposed external corners which may be subject to damage by construction activities.

END OF SECTION

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SECTION 08 7100 DOOR HARDWARE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Section 08 1213 Hollow Metal Frames.
 - 2. Section 08 1313.53 Custom Hollow Metal Doors.
 - 3. Section 08 1416 Flush Wood Doors.
 - 4. Section 08 4313 Aluminum-Framed Storefronts.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC International Building Code.
 - 3. NFPA 70 National Electrical Code.
 - 4. NFPA 80 Fire Doors and Windows.
 - 5. NFPA 101 Life Safety Code.
 - 6. NFPA 105 Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards A156 Series.
 - 2. UL10C Positive Pressure Fire Tests of Door Assemblies.
 - 3. ANSI/UL 294 Access Control System Units.
 - 4. UL 305 Panic Hardware.
 - 5. ANSI/UL 437- Key Locks.

1.03 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.

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- d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
- e. Explanation of abbreviations, symbols, and codes contained in schedule.
- f. Mounting locations for door hardware.
- g. Door and frame sizes and materials.
- h. Warranty information for each product.
- 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
 - 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 - 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Section 01 7000 Execution and Closeout Requirements.

1.04 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum of 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum of 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum of 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

- 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
 - 6. Coordinate and assist Owner with core/key acquisition from security vendor.
- H. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.05 DELIVERY, STORAGE, AND HANDLING

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

1.06 COORDINATION

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

1.07 WARRANTY

- A. General Warranty: Reference Section 01 0000 General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be 1 year from date of Substantial Completion.

PART 2 PRODUCTS

2.01 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 - 1. Quantity: Provide the following hinge quantity:

- a. Two (2) hinges for doors with heights up to 60".
- b. Three (3) hinges for doors with heights 61 to 90".
- c. Four (4) hinges for doors with heights 91 to 120".
- d. For doors with heights more than 120", provide four (4) hinges, plus one (1) hinge for every 30" of door height greater than 120".
- 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'-0": 4-1/2" heavy weight as specified.
 - b. Sizes from 3'-1" to 4'-0": 5" heavy weight as specified.
- 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges.
 - b. Interior Doors: Heavy duty weight, steel, ball bearing or oil impregnated bearing hinges unless.
- 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors. Hospital tip.
- 5. Manufacturers:
 - a. Hager Companies (HA) BB Series, 5 knuckle.
 - b. McKinney (MK) TA/T4A Series, 5 knuckle.
 - c. Or approved equal.

2.02 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge with a minimum of 0.120" thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4". Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 - 1. Manufacturers:
 - a. Ives (IV).
 - b. Pemko (PE).
 - c. Or approved equal.

2.03 POWER TRANSFER DEVICES

- A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex[™] standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
 - 1. Manufacturers:
 - a. Pemko (PE) EL-CEPT Series.
 - b. Securitron (SU) EL-CEPT Series.
 - c. Or approved equal.
- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two (2) per electrified opening.
 - 1. Provide one each of the following tools as part of the base bid contract:
 - a. McKinney (MK) Electrical Connecting Kit: QC-R001.
 - b. McKinney (MK) Connector Hand Tool: QC-R003.
 - 2. Manufacturers:
 - a. Hager Companies (HA) Quick Connect.
 - b. McKinney (MK) QC-C Series.
 - c. Or approved equal.

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2.04 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.
 - 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately 6' from the floor.
 - 2. Furnish dust proof strikes for bottom bolts.
 - 3. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
 - 4. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Or approved equal.
- B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
 - 1. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Or approved equal.
- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Push/Pull Plates: Minimum .050" thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2-1/2" from face of door unless otherwise indicated.
 - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2-1/2" from face of door and offset of 90 degrees unless otherwise indicated.
 - 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 - 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
 - 6. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Or approved equal.

2.05 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have a minimum of 10 years experience designing secured master key systems and have on record a published security keying system policy.
 - 1. Manufacturers:
 - a. dormakaba Best (BE).
 - b. Match Existing, Field Verify.
 - c. Or approved equal.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 - 4. Tubular deadlocks and other auxiliary locks.
 - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 6. Keyway: Match Facility Standard.
 - 7. Provide removable core for each cylinder; coordinate with Owner as required.
- C. Small Format Interchangeable Cores: Provide small format interchangeable cores (SFIC) as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.
 - 1. Match facility pin orientation.

- D. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Control Keys (where required): Two (2).
 - 4. Permanent Control Keys (where required): Two (2).
- F. Construction Keying: Provide temporary keyed construction cores.
- G. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.06 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all features and functionality as specified herein.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) ML2000 Series.
 - b. Sargent Manufacturing (SA) 8200 Series.
 - c. Schlage (SC) L9000 Series.
 - d. Or approved equal.

2.07 LOCK AND LATCH STRIKES

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

2.08 ELECTRIC STRIKES

- A. Surface Mounted Rim Electric Strikes: Surface mounted rim exit device electric strikes conforming to ANSI/BHMA A156.31, Grade 1, and UL Listed for both Burglary Resistance and for use on fire rated door assemblies. Construction includes internally mounted solenoid with two heavy-duty, stainless steel locking mechanisms operating independently to provide tamper resistance. Strikes tested for a minimum of 500,000 operating cycles. Provide strikes with 12 or 24 VDC capability supplied standard as fail-secure unless otherwise specified. Option available for latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike. Strike requires no cutting to the jamb prior to installation.
 - 1. Manufacturers:
 - a. HES (HS) 9400/9500/9600/9700/9800 Series.
 - b. Von Duprin (VD) VD3146/6200/6300 Series.
 - c. Or approved equal.

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2.09 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 - 1. Exit devices shall have a 5 year warranty.
 - 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 - 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 - 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 - 6. Flush End Caps: Provide flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
 - 7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 - 8. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 - 9. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 - 10. Dummy Push Bar: Non-functioning push bar matching functional push bar.
 - 11. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 - 12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) ED4000 / ED5000 Series.
 - b. Sargent Manufacturing (SA) 80 Series.
 - c. Von Duprin (VD) 35A/98 XP Series.
 - d. Or approved equal.

2.10 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
 - 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
 - 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
 - 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
 - 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets. Parallel arm.

- 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
- 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.
- B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.
 - 1. Heavy duty surface mounted door closers shall have a 30 year warranty.
 - 2. Manufacturers:
 - a. Corbin Russwin Hardware (RU) DC6000 Series.
 - b. Norton Rixson (NO) 7500 Series.
 - c. Sargent Manufacturing (SA) 351 Series.
 - d. Or approved equal

2.11 ARCHITECTURAL TRIM

- A. Door Protective Trim:
 - 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
 - 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
 - 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
 - 4. Protection Plates: A NSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050" thick.
 - 5. Options and Fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
 - 6. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Or approved equal.

2.12 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:
 - a. Ives (IV).
 - b. Rockwood (RO).
 - c. Or approved equal.
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
 - 1. Manufacturers:
 - a. Norton Rixson (RF).

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- b. Sargent Manufacturing (SA).
- c. Or approved equal.

2.13 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko (PE).
 - 2. Reese Enterprises, Inc. (RE).
 - 3. Or approved equal.

2.14 ELECTRONIC ACCESSORIES

- A. Intelligent Switching Power Supplies: Provide power supplies with single, dual or multi-voltage configurations at 12 and/or 24VDC. Power Supply shall have battery backup function with an integrated battery charging circuit. The power supply shall have a standard, integrated Fire Alarm Interface (FAI). The power supply shall provide capability for secondary voltage, power distribution, direct lock control and network monitoring through add on modules. The power supply shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs. Network modules shall provide remote monitoring functions such as status reporting, fault reporting and information logging.
 - 1. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
 - 2. Manufacturers:
 - a. Securitron (SU) AQL Series.
 - b. Or approved equal.

2.15 FABRICATION

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

2.16 FINISHES

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

PART 3 EXECUTION

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3.01 EXAMINATION

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

3.02 PREPARATION

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

3.03 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to Specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames".
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities".
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Section 07 9000 Joint Sealants.
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.04 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference 01 7000 Execution and Closeout Requirements. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.05 ADJUSTING

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

3.06 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

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

3.07 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.08 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Manufacturer's Abbreviations:
 - 1. MK McKinney
 - 2. PE Pemko
 - 3. RO Rockwood
 - 4. SA Sargent
 - 5. HS HEŠ
 - 6. SU Securitron
 - 7. OT Other

Hardware Sets General Note: Infill and finish, conceal, or sleeve original fastener holes as required where exposed

Set '	1.0 Door 140			
1	Continuous Hinge	CFM_HD1 EL-CEPT x Length Required		PE
1	Rim Exit Device, Storeroom	16 43 72 8804 Less Pull	US32D	SA
1	Small Format Inter Core	Match existing	US15	SA
1	Electric Strike	9600	630	HS
1	SMART Pac Bridge Rectifier	2005M3		HS
1	Offset Pull	RM222 Mtg-Type 12XHD	US32D	RO
1	Concealed Overhead Stop	690S	EN	SA
1	Surface Closer	351 P10	EN	SA
1	Gasketing	290APK x 2891APK		PE
1	Sweep	3452CNB x Length Required		PE
1	Threshold	2750A x Length (field verify width)		PE
1	ElectroLynx Harness - Frame	QC-C1500P		MK
1	Card Reader	Signo 40 series		HID
1	Power Supply	AQL4-R8E1 x Relays as Required		SU
1	Wiring Diagram	Elevation and Point to Point as Specified		от
Note	s: Operational narrative:			

- Door normally closed and secure.

 Authorized access by presentation of valid credentials releases electric strike for a predetermined amount of time.

- Egress free more immediate exit.

- Electric strike remains locked (fail secure) in the event of power loss or fire alarm activation.

- Keyed cylinder override for emergency access.

-				
2	Continuous Hinges	CFM_SLF-HD1-M		PE
1	Mullion	980	A	SA
1	Rim Exit Device, Classroom	CPC 43 72 8810 16 ETL (NC-E35)	US32D	SA
1	Rim Exit Device, Classroom	CPC 43 72 8813 16 ETL (NC-E35)	US32D	SA
3	Small Format Inter Cores	Match existing	US15	SA
3	Cylinders	72 980C1	US26D	SA
2	Surface Closers	351 OTB	EN	SA
2	Wall Stops	RM860 (or) RM861 (as required)	US26D	RO
2	Sweeps	3452CNB x Length Required		PE
1	Threshold	273x224AFGT x Length Required x MSES25SS		PE

Note:

- - ProvidePerimeter/meeting seals by frame/door supplier.

Set	3.0 Doors 128A, 128B			
2	Continuous Hinge	CFM_SLF-HD1-M		PE
2	Surface Vert Rods Exit, Classroom	[12] 43 72 NB8713 ETL	US32D	SA
2	Small Format Inter Cores	Match existing	US15	SA
2	Surface Closers	351 P10	EN	SA
2	Kick Plates	K1050 10" high BEV CSK	US32D	RO
2	Wall Stops	RM860 (or) RM861 (as required)	US26D	RO
2	Astragals	S772C x Door Height (mechanically attached)		PE
2	Gasketing	S88BL (head and jambs)		PE
Set -	4.0 Door 135A			
2	Continuous Hinges	CFM_SLF-HD1-M	US26D	PE
2	Rim Exit Devices, Classroom	12 CPC 43 72 8813 16 ETL (NC- E35)		SA
2	Small Format Inter Cores	Match existing	US15	SA
2	Concealed Overhead Stops	690S	EN	SA
2	Surface Closers	351 CPS	EN	SA
2	Astragals	S772C x Door Height		PF
	land	(mechanically attached)		. –
2	Gasketing	S88BL (head and jambs)		PE
2	Sweeps	3452CNB x Length Required		PE
Set	5.0 Door 135C			
3	Hinges, Full Mortise	TA2714 [NRP] FT	US26D	MK
1	Storeroom/Closet Lock	72 8204 LL	US26D	SA
1	Small Format Inter Core	Match existing	US15	SA

1	Surface Closer	351 UO	EN	SA
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM860 (or) RM861	US26D	RO
·		(as required)	00200	1.0
1	Gasketing	S88BL (head and jambs)		PE
Set 6	5.0 Door 124DA			
3	Hinges, Full Mortise	TA2714 [NRP] FT	US26D	MK
1	Classroom Lock	72 8237 LL	US26D	SA
1	Surface Closer	351 UO	EN	SA
1	Wall Stop	RM860 (or) RM861 (as required)	US26D	RO
1	Gasketing	S88BL (head and jambs)		PE
Set 7	7.0 Doors 140A, 14	40B		
3	Hinges, Full Mortise	TA2714 [NRP] FT	US26D	MK
1	Institutional Privacy Lock	LB V21 72 8267 LL	US26D	SA
1	Small Format Inter Core	Match existing	US15	SA
1	Surface Closer	351 UO	EN	SA
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM860 (or) RM861 (As Required)	US26D	RO
1	Gasketing	S88BL (head and jambs)		PE
Set 8	B.0 Doors 128C, 12	28D	1	
		Hardware by others		
1	Door Hardware	(cylinder and core as required by General Contractor)		ОТ
Set 9	.0 Gym Door			
1	Sweep	3452CNB x Length Required		PE
1	Astragal	S772C x Door Height		DE
1	Asliayai	(mechanically attach)		
1	Gasketing	S88BL (head and jambs)		PE
1	Perimeter Seal	Pemko 88		
Gene	eral Note:			
- Pro	vide two (2) items each fo	r door pairs.		

END OF SECTION

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B		A		
LIST OF ABB	REVIATI	ONS	_	
POUND OR NUMBER AND AT	L LAM LAV LBP	ANGLE LAMINATE(D) LAVATORY LEAD BASED PAINT		
ASBESTOS ABATEMENT CONTRACTOR ASBESTOS ABATEMENT SUB-CONTRACTOR ANCHOR BOLT AIR CONDITIONING ASBESTOS CONTAINING BUILDING MATERIAL	LFT LL LLH LLV LMET	LINEAR FEET LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LINEAR METAL		1
ASDESTOS CONTAINING MATERIAL ACOUSTIC CEILING TILE AREA DRAIN AMERICAN WITH DISABILITIES ACT ADJUSTABLE ABOVE FINISHED FLOOR	LU LP LV LVL LVT	LOW POINT LOUVER LAMINATED VENEER LUMBER LUXURY VINYL TILE		
AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT ALTERNATE ALUMINUM ANODIZED ARCHITECTURAL	MATL MAX MB MC MFR MH	MATERIAL MAXIMUM MARKERBOARD MECHANICAL CONTRACTOR MANUFACTURER MANHOLE		
ASBESTOS BOARD BUILDING BLOCKING BOTTOM OF	MO MECH MEMBR MEZZ MIN	MASONRY OPENING MECHANICAL MEMBRANE MEZZANINE MINIMUM MOISTUBE DESISTANT		\vdash
BOTTOM OF BOTTOM BASEMENT BEARING BUILT-UP ROOF BEYOND	MRGWB MTD MTL	MOISTORE RESISTANT MOISTURE-RESISTANT GYPSUM WALL BOARD MOUNTED METAL		
CEMENTITIOUS BACKER BOARD CHALKBOARD CENTER TO CENTER CEMENT PLASTER CAST IN PLACE	N NA NIC NO NOM NR NTS NYS	NORTH NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NON RATED NOT TO SCALE NEW YORK STATE		2
CONTROL JOINT CENTER LINE CEILING CLEAR CONSTRUCTION MANAGER CONCRETE MASONRY UNIT	OC OD OFCI OFOI	ON CENTER OUTSIDE DIAMETER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED		
COLUMN COMPRESSIBLE CONCRETE CONTINUOUS CONSTRUCTION LIMIT LINE CARPET CERAMIC TH F	OH OPH OPNG OPP OVHD OZ	OVERHANG OPPOSITE HAND OPENING OPPOSITE OVERHEAD OUNCE		
COURSE (S), (ING) CABINET UNIT HEATER DRYER DEMOLISH OR DEMOLITION DETAIL	PACM PBD PC PCB	PRESUMED ASBESTOS CONTAINING MATERIAL PARTICLE BOARD PLUMBING CONTRACTOR POLYCHLORINATED BIPHENYLS		
DRINKING FOUNTAIN DIAMETER DIMENSION DIMENSIONS DIVISION DEAD LOAD DOWN	PCC PCP PERF PL PLAM PLAS PLYWD	PRE-CAST CONCRETE PORTLAND CEMENT PLASTER PERFORATED PLATE PLASTIC LAMINATE PLASTER PLYWOOD		
DAMP-PROOFING DOOR DOWNSPOUT DRAWING EAST EXISTING	PLUMB PLYD PNL PR PRE PREFAB PRT	PLUMBING PLYWOOD PANEL PAIR POWER ROOF EXHAUST PREFABRICATED PORCELAIN TH E	KEY PLAN:	3
EACH EACH EXPANSION BOLT ELECTRICAL CONTRACTOR EACH FACE EXISTING FIRE EXTINGUISHER EXHAUST HOOD	PT PT/PNT PVC PVMT PWT	PORCELAIN TILE PRESSURE TREATED PAINT OR PAINTED POLYVINYL CHLORIDE PAVEMENT PORCELAIN WALL TILE	AREA C AREA D	
EXTERIOR FINISH & INSULATION SYSTEM EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR OR ELEVATION ELECTRIC PANEL	R RAF RB RBR RCP RD REBAR	RISER OR RADIUS RESILIENT ATHLETIC FLOOR RUBBER BASE RUBBER REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR	AREA B COURTYARD	╞
EPOXY PAINT ETHYLENE PROPYLENE DIENE M-CLASS ROOFING) EQUAL, EQUALLY EQUIPMENT EXPOSED STRUCTURE	REF REFRIG REINF REQD REV RFE	REFERENCE REFRIGERATOR REINFORCE(D), (ING) REQUIRED REVISION(S), REVISED RECESSED FIRE EXTINGUISHER		
EPOXY TERRAZZO FLOOR EXISTING TO REMAIN EACH WAY ELECTRIC WATER COOLER EXCAVATE EXISTING EXPANSION, EXPOSED	RH RM RO RTU S SB	ROOF HATCH ROOM ROUGH OPENING ROOF TOP UNIT SOUTH SMOKE BARRIER	N SED NO. 22-14-01-04-0-001-014 THIS SHEET INCORPORATES COLOR GRAPHICS WHICH INDICATE IMPORTANT INFORMATION AND SHALL BE PRINTED IN COLOR IF REPRODUCED BY A CONTRACTOR.	4
EXPANSION JOINT EXTERIOR FIRE BARRIER FURNISHED BY OTHERS FLOOR DRAIN OR FIRE DEPARTMENT	SC SCHED SF SGT SIM SMACM	SITE CONTRACTOR SCHEDULE SQUARE FOOT (FEET) STRUCTURAL GLAZED TILE SIMILAR SUSPECTED MISCELLANEOUS ASBESTOS	BCA AICONLECIS & ENGINEERS Watertown Ithaca Saratoga Springs Rochester WWW.THEBCGROUP.COM COPYRIGHT © 2023 - BCA ARCHITECTS & ENGINEERS, WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO	
FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR ELEVATION FIXTURES, FURNISHINGS & EQUIPMENT FIRE HOSE CABINET FINISH (ED)	SOG SPEC SPKR SQ SS SST	SLAB-ON-GRADE SPECIFIED OR SPECIFICATION SPRINKLER OR SPEAKER SQUARE SOLID SURFACE STAINLESS STEEL		
FIXTURE FLOOR FILLED METAL FACE OF FOUNDATION FIRE RATED FIREPROOF(ING)	STC STD STL STOR STRUCT SUSP SV	SOUND TRANSMISSION CLASS STANDARD STEEL STORAGE STRUCTURE OR STRUCTURAL SUSPENDED SHEET VINYL	ARCHITECTS	
FIGE RETARDANT TREATED WOOD FOOT OR FEET FOOTING FABRIC WALL COVERING GAUGE GALVANIZED	T T&B T&G TB TBD TBR	TREAD TOP AND BOTTOM TONGUE AND GROOVE TACK BOARD TO BE DETERMINED TO BE REMOVED		
GLAZED BLOCK OK GRAB BAR GENERAL CONTRACTOR GLASS GLAZED CMU GYPSUM WALL BOARD GLAZED TILE GYPSUM	TEL TEMP TERR THK THRU TLT	TECHNOLOGY CONTRACTOR TELEPHONE TEMPORARY TERRAZZO THICK(NESS) THROUGH TOILET	RED	5
HOLLOW CORE HARDWARE HARDWOOD HIGH HOLLOW METAL HORIZONTAL	TME TO TOB TOC TOF TOJ TOM	TO MATCH EXISTING TOP OF TOP OF BEAM TOP OF CONCRETE TOP OF FOOTING TOP OF JOIST TOP OF MASONRY		
HIGH POINT HOUR HIGH SCHOOL HEIGHT HEATING, VENTILATING, AND AIR CONDITIONING	TOS TOW TPD T/D TS TYP	TOP OF STEEL TOP OF WALL TOILET PAPER DISPENSER TELEPHONE/DATA TUBE STEEL TYPICAL	CAPITAL IMPROVEMENT PROJECT K12 BUILDING LAFARGEVILLE - JEFFERSON - NEW YORK	-
NSIDE DIAMETER NSULATED GLASS NSULATED METAL PANEL NCH(ES) NCLUDE(ING) MPACT RESISTANT GYPSUM WALL BOARD	UNO UNFIN VAR VB VCB	UNLESS NOTED OTHERWISE UNFINISH(ED) VARNISHED VAPOR BARRIER VINYL COVE BASE	REVDATEDESCRIPTION34/15/2024BID Addendum #3	
NCH NFORMATION NSULATED OR INSULATION NTERIOR JOIST	VCT VERT VIF VSB VSF VWC VP	VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD VINYL STRAIGHT BASE VINYL SHEET FLOORING VINYL WALL COVERING VENT PIPE	DRAWN BY PROJECT NUMBER Author 2022-052 CHECKED BY DATE Checker 4/5/2024	6
	W W/ WB WC WD WF WP	WEST, WIDE OR WASHER WITH WHITEBOARD WATER CLOSET OR WALL COVERING WOOD WIDE FLANGE WORK POINT	ARCHITECTURAL GENERAL NOTES, ABBREVIATIONS AND LEGENDS SHEET NUMBER	
	WR WWM	WATER RESISTANT WELDED WIRE MESH	AS000	









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SYMBO	OL LOC	ATION		DOOR SIZE			DOOR TYPE		CHED	ULE FRAME TY	ΈE	D	ETAILS						NOTE: WALL ELEVATIONS INDICATED ON THE ROOM FINISH SCHEDULE ARE BASED ON SHEET NORTH.	
DOOR	No. ROOM	I NAME	WIDTH	HEIGHT	THICKNES	S ELEV.	MATERIAL	FINISH	ELEV.	MATERIAL	FINIS	SH HEAD	D JAMB	HARDWARE	FIRE RATING	GLAZING	REMARKS			
124D/ 128A 128B	A SERVING A MULTI-PURPO B MULTI-PURPO	SE ROOM SE ROOM	3' - 0" 6' - 0" 6' - 0" 7' 3"	7' - 0" 7' - 0" 7' - 0"	0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4" 0' - 1 3/4"	N530 N530 N530	WD WD WD	PF PF PF	1 1 1	HM HM HM	PT PT PT	H1 H1 H1	J1 J1 J1	6 3 3	45 MIN 45 MIN 45 MIN 45 MIN				NOTE: GC SHALL COORDINATE CARD ACCESS EQUIPMENT WITH THE DISTRICT'S EXISTING CARD ACCESS VENDOR, ALLTECH INTEGRATIONS AT 888-692-8483. COORDINATE WITH EC ON FINAL CONNECTIONS AND POWER REQUIREMENTS.	ζ
1280 1280 135A	D SERVING		3' - 0" 6' - 0"	7' - 8 1/2" 7' - 0"	0' - 0 1/2"	R2	MTL	MFR		 HM	 PT	H1	.11	8	45 MIN 45 MIN 45 MIN					
135C	C IT STORAGE		3' - 0"	7' - 0" 7' - 0"	0' - 1 3/4"	F N530	WD	PF	2	HM	PT	H2 H3	J2	5	45 MIN 45 MIN					
			<u>3' 0"</u>	7' - 0" 7' - 0"	Q' - 1 3/4" 0' - 1 3/4"	F			$\overline{1}$	HM V HM								$\overline{}$		
1400	STRENGTH &	CONDITIONING	3' - 0"	7' - 0"	0' - 1 3/4"	ETR	ETR	ETR	4	НМ	PT	H2	J2		45 MIN	C.	ARD READER - EINSTALL EXISTING	\neg		
144A	A CORRIDOR		5' - 8"	7' - 0"	0' - 1 3/4"	FG	ALUM	MFR	3	ALUM	MFF	र H3	J2	2		D'	OOR IN NEW FRAME	$-\chi$		
144B		λ λ	6' - 0" Х	7' - 0" Å	0' - 1 3/4" J	FG ک	ALUM	MFR	3	ALUM	MFF	R H3	J2	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 Å	λ	λ λ	$\Box) $		
							ROO													
	ROOM		FLOORS				NUU	WALLS		ΠΕΟ				CEILINGS						
No.	NAME	MATERIAL	FINISH	ACCENT	BASE	NORTH FINISH MA	TERIAL FINIS	EAST H MATERIAL	SO FINISH	UTH MATERIAL	V FINISH	NEST MATERIAL	FINISH	ACCENT	HEIGHT		REMARKS			
14	STAIR	ETR	ETR	-	ETR PV	VT/PT ETF	R PWT/PT	ETR	PWT/PT	ETR	PWT/PT	ETR	ETR	-	ETR					
100A 100B 100C	CONFERENCE	ETR ETR ETR	CPT CPT CPT		RB ET RB ET	R ETF	R ETR R ETR R ETR	ETR ETR ETR	ETR	ETR	ETR	ETR ETR ETR	ETR ETR ETR							
100D 100E	STUDENT ASSISTANCE ELEM. PRINC.	ETR ETR	CPT CPT	-	RB ET RB ET	R ETF	R ETR R ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR							1 1
100F 103	GUIDANCE LIBRARY	E ETR	CPT CPT	- LVT	RB ET RB PT	R ETF	R ETR R PT	ETR ETR	ETR PT	ETR ETR	ETR PT	ETR ETR	ETR ETR		9'-0"					
103A 107 117	KINDERGARTEN	ETR ETR ETR	LVT CPT	-	RB ET	R ETF	R ETR R ETR R ETR	ETR ETR ETR	ETR	ETR	ETR	ETR ETR ETR	ETR ETR ETR		9'-0"					
117A 117B	STORAGE OFFICE	ETR ETR	VCT CPT	-	RB ET RB ET	R ETF	R ETR R ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	-	9'-0" 9'-0"					
117C 117D 117F		ETR ETR ETD	CPT CPT	-	RB ET RB ET	R ETF	K ETR R ETR	ETR ETR	ETR ETR FTP	ETR ETR FTP	ETR ETR FTP	ETR ETR FTP	ETR ETR		9'-0" 9'-0" 9'-0"					
118 120	HEALTH CONFERENCE	ETR	LVT CPT	- -	RB PT	R ETF	R ETR R PT	ETR	ETR PT	ETR GYP	ETR PT	ETR GYP	ETR ETR ACT		9'-0" 9'-0"					
121 122	PRE-K TEACHERS LOUNGE	ETR ETR	LVT ETR	-	RB ET RB ET	R ETF	R ETR R ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	-	10'-0" 9'-0" 3					
124 124D	KITCHEN SERVING	ETR ETR		- -	QT ET QT ET	R WP R WP	ETR ETR	WP WP	ETR ETR	WP WP	ETR ETR	WP WP	ACT (WET) ACT (WET)	-	9'-0" 9'-0"					
131	DATA	ETR	VCT	-	RB ET	R ETF	R ETR	ETR	ETR	ETR	ETR	ETR	ETR	-	9'-0"	CONE	DUIT; CLOUD HT. PER RCP			
135 135C	CORRIDOR IT STORAGE	ETR ETR	ETR LVT	-	PRT PV RB PT	VT/PT ETF GYF	R PWT/PT P ETR	ETR ETR	PWT ETR	ETR ETR	PWT ETR	ETR ETR	ETR ACT		9'-0" 9'-0"					
140 140A	CHANGING ROOM		RFT	-	RB PT	R EIF		GYP	PT	GYP	PT	GYP	GYP	-	9'-0"	CEILING; AL	L OTHER EXISTING TO REI	= NEW MAIN		
140B 144	TR/SHOWER CORRIDOR	ETR ETR	CMT ETR	-	CMT ET PRT PV	R ETF VT/PT ETF	R PWT R PWT/PT	GYP ETR	PWT PWT/PT	GYP ETR	PWT PWT/PT	GYP ETR	GYP ETR	-	9'-0" 12'-0"				KEY PLAN:	
144A 144B	TR TR	ETR ETR	ETR ETR	-	CMT CM CMT CM	AT GYF AT GYF	P ETR P ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	-	12'-0" 12'-0"					
147B 148A 159	STAIR STAIR CORRIDOR	ETR	ETR ETR ETR	-	PRT PV PRT PV CMT PV	VT/PT ETF VT/PT ETF	R PWT/PT R PWT/PT R PWT/PT	ETR ETR ETR	PWT/PT PWT/PT	ETR	PWT/PT PWT/PT	ETR	ETR ETR ETR		10'-0"				AREA C	
161 165	STAIR STAIR	ETR ETR	ETR	-	PRT PV PRT PV	VT/PT ETF VT/PT ETF	R PWT/PT	ETR	PWT/PT PWT/PT	ETR	PWT/PT PWT/PT	ETR ETR	ETR	-						
170 171	VESTIBULE STAIR	ETR ETR	ETR ETR	-	PRT PV PRT PV	VT/PT ETF VT/PT ETF	R PWT/PT	ETR ETR	PWT/PT PWT/PT	ETR ETR	PWT/PT PWT/PT	ETR ETR	ETR ETR	-						
183 211A 227	HOME & CAREERS	ETR ETR FTR	LVT FTR	-	EIR EI RB ET CMT PV	R ETF R ETF VT/PT FTF	R EIR R ETR R PWT/PT	ETR ETR FTR	ETR ETR PWT/PT	ETR	ETR ETR PWT/PT	ETR ETR FTR	ETR ETR GYP		9'-0"					
238 240	CORRIDOR CORRIDOR	ETR	ETR	-	PRT PV PTR-1 PV	VT/PT ETF VT/PT ETF	R PWT/PT R PWT/PT	ETR	PWT/PT PWT/PT	ETR	PWT/PT PWT/PT	ETR	ETR	-	9'-0"				AREA B COURTYARD	F
248B	STAIR	ETR	ETR	-	ETR PV		R PWT/PT	ETR	PWT/PT	ETR	PWT/PT	ETR	ETR	-	ETR	SEE KEYN	OTES 7A/A111 AND 7/A113 F LOCATIONS	FOR		
256 281	CORRIDOR	ETR	ETR	-	PRT PV ETR PV	VT/PT ETF VT/PT ETF	R PWT/PT	ETR	PWT/PT PWT/PT	ETR	PWT/PT PWT/PT	ETR	ETR	-	ETR		SEE KEYNOTE 7/A113		AREA A	
																		_	SED NO. 22-14-01-04-0-001-014	
						5505	MAT	ERIAL	SCHE				0.75		001115150		100471011		THIS SHEET INCORPORATES COLOR GRAPHICS WHICH INDICATE	<u>.</u>
IIEM GRO	UUP IYPE MARK_			I MANUFAC		PROE		PRC	NUMBE	<u></u> P	KUUUCT MA		SIZE		COMMENTS				REPRODUCED BY A CONTRACTOR.	
BASE	CMT-2 PRT-1	CERAMIC COVE BASE PORCELAIN BASE TILE	TILE	DALTILE DALTILE	PC PC	ORTFOLIO ORTFOLIO		P36C9 P43C9		DOVE G	REY MATTE	6"X12 3"X12	2" CC 2" BL	DVE BASE; GROUT: M JLLNOSE BASE TO M	MAPEI 02 PEWTER MATCH WALL TILE	ER			DUA AI CI IILECIS & ENGINEER Watertown Ithaca Saratoga Springs Rochester	`
BASE CEILING	VB-1	VINYL BASE		FLEXCO	W	ALL BASE		023		PEBBLE		4"			150				WWW.THEBCGROUP.COM COPYRIGHT © 2023 - BCA ARCHITECTS & ENGINEERS, WARNING - IT IS A VIOLATION	OF
LOORING	CMT-1		EILING		PC		HAPES : HEXAG	DNS 5444		ASH GR		48"X4	18"X7/8" DE	CK HANGING KIT 54	450 AY				THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS T THIS DOCUMENT AS PER ARTICLE 145 AND 147.	0
FLOORING FLOORING	CPT-1 LVT-1	CARPET TILE LUXURY VINYL TILE		MOHAWK PATCRAFT	AC BA	CADEMIC VIEW	: LINOCUT	BT433 I560V	00750	959 SLA BLOCK-	VTE	24"X2 9"x36	24" IN	STALL: BRICK ASHLA STALL: HERRINGBO	AR NE RANDOM 20%	%(MULTIPURPOSE);	MULTI-PURPOSE ROOM;	_		
	LVT-2	LUXURY VINYL TILE			BA	ASIS OF DESIGN	: LINOCUT	1560V	00500	MIRROF	R-V1	9"X36	S" IN	STALL: HERRINGBO	S NE RANDOM 80%	%(MULTIPURPOSE	MULTI-PURPOSE ROOM	-		
LOORING LOORING	RFT-1 VCT-1	RUBBER FLOORING	E	FLEXCO TARKETT	RL TA	JBBER SPORTS	FLOORING	PSF-00 530	01	BLACK	DAHLIA R STORM WO	G 12"X1	12"							
	IEOUS IEOUS SS-1	SOLID SURFACE WIND	OW SILL	WILSONART	sc	DLID SURFACE		9196R	S	YUKON	RIVERSTON	IE	1"	K3" BULLNOSE WINE	DOW SILL; RE: DE	ETAIL			ARCHITECTS	5
WALLS WALLS WALLS	CWT-1 PT-1	CERAMIC WALL TILE		MATCH EXIST	ING MA	ATCH EXISTING	LATEX PAINT	SW700)4	SNOWP	BOUND		PA (M	TCH AND MATCH EX	XISTING		THROUGHOUT UNO		ENGINEERS	5
WALLS WALLS	PT-2 PT-3	PAINT PAINT		SHERWIN WIL	LIAMS EC	GSHELL FINISH	I LATEX PAINT	SW702 SW702	29	AGREE/	ABLE GRAY		(LI (D	GHT GRAY) ARK GRAY)						
WALLS WALLS	PT-4 PT-5			SHERWIN WIL	LIAMS EC	GSHELL FINISH	I LATEX PAINT	SW758 SW625	38 58				(R (B	ED) LACK) TV ALCOVE					-#C#// 2/	
WALLS	WD-1	WOOD WALL TILE		TILE CLUB	BA	ASIS OF DESIGN	: JAPANDI	TCZEN	IDEMAP2448	MAPLE	SLAT WALL	TILE 23.7"	GF BC X47.25" 1/8	ND PATTERN " GROUT JOINT: LA	TICRETE 30 SAND	D BEIGE INSTALL:	MULTI-PURPOSE ROOM	-		Ļ
WALLS	WP-1	WALL PROTECTION		PAWLING CORPORATIO	N PF	RO-TEK		-		WHITE		4'X8'	SL FII	ATS VERTICAL NE GRAIN PATTERN	(WINDRIFT)		KITCHEN		REAL	
WALLS WALLS	WP-2 WP-3	WALL PROTECTION WALL PROTECTION		ALTRO ALTRO	AL	TRO WHITEROC	СК	9904 9905		WARM	WOODGRAIN MINERAL	N 4'X8'- 4'X8'-	2"						KNIGHTS	
\frown		\sim	$\overline{\mathbf{n}}$	$\overline{\mathbf{A}}$	$\bigvee $	$\overline{\mathbf{n}}$	$\overline{}$		$\overline{\checkmark}$	\sim	\frown	$\overline{\gamma}$	\frown	\sim	$\frown \frown$	$\overline{\mathbf{i}}$	\sim)		
,	·		I	I	I	,		1	I	,					ľ	·		Z		
			EXIS BLOCK M	TING VALL															CAPITAL IMPROVEMENT PROJECT	
5/8" TY BD E	YPE-X GYP. EACH SIDE	-METAL STUDS			<u> </u>	 	EXISTING		· · · · ·	(3) MET	AL ANCHOF	RS PER JAMB-	_		(3 Al	3) METAL ANCHORS PER JAMB		Ź		
METAL S	STUD BOX		BLOCK AS RI				EXISTING-		SS SS		I	METAL STUD-		2" 1/2"	M/		2"1/2"		REV DATE DESCRIPTION	_
GAUGI	E HEADER SCHEDULE		NTEL SCHED	DULE		\bigotimes	LINTEL TO REMAIN		TE FR						PA E			Ź	3 4/15/2024 BID Addendum #3	
F	SEALANT		SEALANT E	EACH		, K	SEALANT		あ亡亡 						- LE STUD		FRAME			
L			DOOR FRAM		≚ᠽ≚ᡔᢞᡃ᠋᠍ᡃᢞ᠆ᠱ	<u>∽</u> ~^	DOOR	- -		_					ИВ			\mathcal{T}	DRAWN BY PROJECT NUMBER Author 2022-052	1
DOOF SEE TYF			SEE FRAM TYPES FO THICKNES	DR L SS		لــر	FRAME			5/8" 1 EA. SI	IDE. PRIME	& FINISH		J1		EA. SIDE			CHECKED BY DATE	6
THI	CKNESS	H1			(H2)			(H3)				EA. SIDE					UZ	\mathcal{T}	SCHEDULES AND DETAILS	_
\frown																		\mathcal{T}		
〔4)₃	SCALE: 1 1/2" = 1'-0"																	—)	A800	
$\not\prec$	\sim		\checkmark	\sim	\checkmark	\checkmark \sim	\checkmark	$\$	\mathcal{A}		$\$	$\langle \ \rangle$	$\$	$\$	\sim	\sim		\mathcal{F}	BID SET	┛
		5					0										<u> </u>			

						OOR SO	HED							
								FRAME TY		DETAIL				NOTE: WALL ELEVATIONS INDICATED ON THE ROOM FINISH SCHEDULE ARE BASED ON SHEET NORTH.
4DA	SERVING	3' - 0"	7' - 0"	0' - 1 3/4" N5	530 WD		1	HM	PT			6 45 MIN		NOTE: GC SHALL COORDINATE CARD ACCESS EQUIPMENT WITH
28A 28B	MULTI-PURPOSE ROOM	6' - 0" 6' - 0"	7' - 0" 7' - 0"	0' - 1 3/4" N5 0' - 1 3/4" N5	530 WD 530 WD	PF	1	HM	PT PT	H1 H1	J1 J1	3 45 MIN 3 45 MIN		THE DISTRICT'S EXISTING CARD ACCESS VENDOR, ALLTECH INTEGRATIONS AT 888-692-8483. COORDINATE WITH EC ON FINAL CONNECTIONS AND POWER REQUIREMENTS
28C 28D	MULTI-PURPOSE ROOM	7' - 3" 3' - 0"	8' - 6" 7' - 8 1/2"	0' - 2" R 0' - 0 1/2" R	R1 MTL R2 MTL	MFR MFR						8 45 MIN 8 45 MIN		
35A 35C	CORRIDOR IT STORAGE	6' - 0" 3' - 0"	7' - 0" 7' - 0"	0' - 1 3/4" F 0' - 1 3/4" I	FG HM F WD	PT PF	3 2	HM HM	PT PT	H1 H2	J1 J2	4 45 MIN 5 45 MIN		
40 40A	STRENGTH & CONDITIONI	NG 3' - 0"	7' - 0"	0' - 1 3/4" N5 -Q' - 1 3/4" I	530 WD F WD	PF	2	HM HM	PT	H3	J2	1 45 MIN 7	CARD READER	
40 B 40C	TR/SHOWER Y STRENGTH & CONDITIONI	Y 3' - 0Y NG 3' - 0"	7'-0" 7'-0"	0'¥13/4" 0'-13/4" E	F Y WD TR ETR	PF Y ETR	<u>1</u> 4	✓ Нм НМ	PT PT	<u>ү н1 ү</u> Н2	J1 J2	7 YY 1 45 MIN	CARD READER -	
													REINSTALL EXISTING DOOR IN NEW FRAME)
44A 44B	CORRIDOR CORRIDOR	5' - 8" 6' - 0"	7' - 0" 7' - 0"	0' - 1 3/4" F 0' - 1 3/4" F	G ALUM G ALUM	MFR MFR	3 3	ALUM	MFR MFR	H3 H3	J2 J2	2 2)
<u>مر</u>														
	DOOM	FL 0000			ROO		SHSC	HEDU	JLE				T	
	NAME MAT	FLOORS	ACCENT I	BASE FINISH		EAST H MATERIAL	FINISH	OUTH MATERIAL	WE FINISH	ST MATERIAL FIN	IISH A	CCENT HEIGHT	REMARKS	
STAI	R ETR	ETR		ETR PWT/PT	ETR PWT/P1	ETR	PWT/PT	ETR	PWT/PT	ETR E	TR	- ETR		
CON	FERENCE ETR ONDARY PRINC. ETR	CPT CPT CPT	-	RBETRRBETR	ETR ETR ETR ETR	ETR	ETR	ETR	ETR	ETR E ETR E	TR TR	- - -		
STUI ELEI	DENT ASSISTANCE ETR M. PRINC. ETR	CPT CPT	-	RB ETR RB ETR	ETR ETR ETR ETR	ETR ETR ETP	ETR ETR	ETR ETR	ETR ETR	ETR E ETR E	TR TR	-		_
LIBR	ARY ETR CULATION ETR	CPT CPT CPT	LVT LVT	RBPTRBPT	ETR PT ETR ETR	ETR ETR ETR	PT ETR	ETR	PT ETR	ETR E ETR E	TR TR	- 9'-0" - 9'-0"		
	DERGARTEN ETR RUMENTAL MUSIC ETR	LVT CPT		RB ETR RB ETR	ETR ETR ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR E ETR E	TR TR	- 9'-0" 		
OFF	CE ETR CTICE ETR	CPT CPT	-	RBETRRBETR	ETR ETR ETR ETR	ETR	ETR ETR	ETR ETR	ETR ETR	ETR E	TR TR	- 9'-0" - 9'-0"		
	CTICE ETR LANDING ETR	CPT VCT	-	RBETRRBETRRBETR	ETR ETR ETR ETR	ETR ETR	ETR ETR ETP	ETR ETR	ETR ETR ETP	ETR E ETR E	TR TR	- 9'-0" - 9'-0"		
	FERENCE ETR -K ETR	LV1 CPT LVT		RBPTRBETR	ETR PT ETR ETR	ETR ETR	PT ETR	GYP ETR	PT ETR	GYP A ETR E		- 9'-0" - 9'-0" /		
TEAC KITC	CHERS LOUNGE ETR	ETR QT	-	RB ETR QT ETR	ETR ETR WP ETR	ETR WP	ETR ETR	ETR WP	ETR ETR	ETR E WP ACT		- <u>9'0" 3</u> - <u>9'0" 3</u>		
MUL	TI-PURPOSE ROOM	LVT	LVT	PRT PWT/WD	ETR PWT/P1	ETR	PWT/PT	ETR	PWT/PT	ETR F	νν⊑ι) PT C	- (9-00) CLOUD EXPOSED	PAINT EXPOSED STRUCTURE, PIPING, CONDUIT; CLOUD HT. PER RCP	
DAT/ COR	A ETR RIDOR ETR TORAGE	VCT ETR	-	RB ETR PRT PWT/PT RB PT	ETR ETR ETR PWT/P1 GYP ETP	ETR ETR FTR	ETR PWT ETR	ETR ETR FTR	ETR PWT ETR	ETR E ETR E ETR ^		- 9'-0" - 9'-0" - 9'-0"		
STR	ENGTH & CONDITIONING ETR	RFT	-	RB ETR	ETR PT	GYP	PT	GYP	ETR	ETR A		- 9'-0"	ONLY NORTHWEST CORRIDOR TO HAVE NEW CEILING; ALL OTHER EXISTING TO REMAIN	
CHA TR/S COR	NGING ROOM ETR HOWER ETR RIDOR ETR	CMT ETR		RB PT CMT ETR PRT PWT/PT	GYP PT ETR PWT ETR PWT/P1	GYP GYP ETR	PT PWT PWT/PT	GYP GYP ETR	PT PWT PWT/PT	GYP G GYP G ETR E	YP YP TR	- 9'-0" - 9'-0" - 12'-0"		KEY PLAN:
TR TR	ETR ETR	ETR ETR	-	CMT CMT CMT CMT	GYP ETR GYP ETR	ETR ETR	ETR ETR	ETR ETR	ETR ETR	ETR E	TR TR	- 12'-0" - 12'-0"		
STAI STAI COR	R ETR R ETR RIDOR ETR	ETR ETR ETR		PRT PWT/PT PRT PWT/PT CMT PWT/PT	ETR PWT/P1 ETR PWT/P1 ETR PWT/P1	ETR ETR ETR	PWT PWT/PT PWT/PT	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR E ETR E ETR E	TR TR TR	- - - 10'-0"		
STAI STAI	R ETR R ETR	ETR ETR	-	PRT PWT/PT PRT PWT/PT	ETR PWT/P1 ETR PWT/P1	ETR ETR	PWT/PT PWT/PT	ETR ETR	PWT/PT PWT/PT	ETR E ETR E	TR TR	-		
VES STAI	TIBULE ETR R ETR BY ETR	ETR ETR ETR	- -	PRT PWT/PT PRT PWT/PT ETR ETR	ETR PWT/P1 ETR PWT/P1 ETR ETR	ETR ETR ETR	PWT/PT PWT/PT ETR	ETR ETR ETR	PWT/PT PWT/PT ETR	ETR E ETR E ETR E	TR TR TR	- - ETR		
HON	IE & CAREERS ETR RIDOR ETR	LVT ETR	-	RBETRCMTPWT/PT	ETR ETR ETR PWT/P1	ETR ETR	ETR PWT/PT	ETR	ETR PWT/PT	ETR E ETR G	TR YP	- 9'-0" - 9'-0"		
COR COR STAI	RIDOR ETR RIDOR ETR R ETR	ETR ETR ETR	- F	PRT PWT/PT PTR-1 PWT/PT ETR PWT/PT	ETR PWT/P1 ETR PWT/P1 ETR PWT/P1	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR E ETR E ETR E	TR TR TR	- 9'-0"	SEE KEYNOTES 7A/A111 AND 7/A113 FOR	
COR	RIDOR ETR	ETR	-	PRT PWT/PT	ETR PWT/P1	ETR	PWT/PT	ETR	PWT/PT	ETR E	TR	- 9'-0"	LOCATIONS	
STAI	RIDOR ETR	ETR	-	ETR PWT/PT	ETR PWT/P1	ETR	PWT/PT	ETR	PWT/PT PWT/PT	ETR E	TR	- ETR	SEE KEYNOTE 7/A113	
					MAT	ERIAL	SCH							SED NO. 22-14-01-04-0-001-014
GROUP	TYPE MARK_ PRODUC	CT DESCRIPTION	MANUFACTU	IRER	PRODUCT NAME	PRO		ER PI	RODUCT MAKE	SIZE		COMMENTS	LOCATION	IMPORTANT INFORMATION AND SHALL BE PRINTED IN COLOR IF REPRODUCED BY A CONTRACTOR.
	CMT-2 CERAMIC CO	VE BASE TILE	DALTILE	PORTFOLIO		P36C9		DOVE G	REY MATTE	6"X12"	COVE BASE	; GROUT: MAPEI 02 PEWTER		BCA Architects & Engineers
	PRT-1 PORCELAIN E VB-1 VINYL BASE	BASE TILE	DALTILE FLEXCO	PORTFOLIO WALL BASE		023		DOVE G PEBBLE	REY MATTE	3"X12" 4"	BULLNOSE	BASE TO MATCH WALL TILE		Watertown Ithaca Saratoga Springs Rochester WWW.THEBCGROUP.COM
NG	ACC-1 ACOUSTICAL	CLOUD CEILING	ARMSTRONG	SOUNDSCAP	PES SHAPES : HEXAG	ONS 5444		WHITE ((WH)	48"X48"X7/8"	DECK HANG	ING KIT 5450	MULTI-PURPOSE ROOM	COPYRIGH I © 2023 - BCA ARCHITECTS & ENGINEERS, WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO THIS DOCUMENT AS PER ARTICLE 145 AND 147.
NG NG NG	CMT-1 CERAMIC FLC CPT-1 CARPET TILE LVT-1 LUXURY VINY		MOHAWK PATCRAFT	ACADEMIC V BASIS OF DE	IEW SIGN: LINOCUT	BT433 1560V	00750	959 SLA BLOCK-	λΤΕ V1	2"X2" 24"X24" 9"x36"	INSTALL: HE	PELO9 GRAY RICK ASHLAR RRINGBONE RANDOM 20%(MU	LTIPURPOSE); MULTI-PURPOSE ROOM;	
NG	LVT-2 LUXURY VINY	LTILE		BASIS OF DE	SIGN: LINOCUT	1560V	00500	MIRROF	R-V1	9"X36"	ASHLAR CL/ INSTALL: HE	ASSROOMS RRINGBONE RANDOM 80%(MU	CLASSROOMS LTIPURPOSE MULTI-PURPOSE ROOM	$RC\Delta$
NG NG	RFT-1 RUBBER FLOW VCT-1 VINYL COMPC	ORING DSITE TILE	FLEXCO TARKETT	RUBBER SPC TARKETT VC	DRTS FLOORING	PSF-00 530	1	BLACK I	DAHLIA R STORM WG	12"X12"				
_ANEOU	S S SS-1 SOLID SURFA	CE WINDOW SILL	WILSONART	SOLID SURF	ACE	9196RS	;	YUKON	RIVERSTONE		1"X3" BULLN	OSE WINDOW SILL; RE: DETAIL		ARCHITECTS
	CWT-1 CERAMIC WA PT-1 PAINT		MATCH EXISTING	G MATCH EXIS	TING INISH LATEX PAINT	SW700	4	SNOWB			PATCH AND (WHITE)	MATCH EXISTING	THROUGHOUT UNO	ENGINEERS
	P1-2 PAINT PT-3 PAINT PT-4 PAINT		SHERWIN WILLIA SHERWIN WILLIA SHERWIN WILLIA	AMS EGGSHELL F AMS EGGSHELL F AMS EGGSHFI I F	INISH LATEX PAINT INISH LATEX PAINT INISH LATEX PAINT	SW702 SW701 SW758	9 3 3	AGREE/ DOVET/ SHOWS	ABLE GRAY AIL STOPPER		(LIGHT GRA (DARK GRA) (RED)	Y) ()		
	PT-5 PAINT PWT-1 PORCELAIN V	VALL TILE	SHERWIN WILLIA DALTILE	AMS EGGSHELL F PORTFOLIO	INISH LATEX PAINT	SW625 PF04	3	TRICOR DOVE G	RN BLACK GREY MATTE	12"X24"	(BLACK) TV GROUT: MA	ALCOVE PEI 02 PEWTER; INSTALL ASHL	AR/RUNNING	ANICA-
	WD-1 WOOD WALL	TILE	TILE CLUB	BASIS OF DE	SIGN: JAPANDI	TCZEN	DEMAP2448	MAPLE	SLAT WALL TIL	E 23.7"X47.25"	1/8" GROUT SLATS VERT	ERIN JOINT: LATICRETE 30 SAND BE FICAL	IGE INSTALL: MULTI-PURPOSE ROOM	
	WP-1 WALL PROTE		PAWLING CORPORATION ALTRO	PRO-TEK	EROCK	- 9904		WHITE	WOODGRAIN	4'X8' 4'X8'-2"	FINE GRAIN	PATTERN (WINDRIFT)	KITCHEN	RED
	WP-3 WALL PROTE			ALTRO TEGU		9905	\frown	WHITE	MINERAL	4'X8'-2"	\sim		$\bigcirc \bigcirc $	
\frown			$\gamma \gamma$			$\sim \gamma$	~γ	~γ	γ	\sim γ	$\gamma \gamma \gamma$			
		EXI	ISTING-											LAFARGEVILLE CSD
TYPE-X	GYP	BLOCK JDS										(3) ME ANCH		K12 BUILDING
		BLOCK AS			BLOCK WALL		 ₩₩₩	(3) ME⊺			2" 1/	2" MASO	иамы NRY <u>2" 1/2</u> "	LAFARGEVILLE - JEFFERSON - NEW YORK REV DATE DESCRIPTION
UGE HE	ADER DULE	LINTEL SCHE			EXISTING LINTEL TO REMAIN		TE FRA		P					3 4/15/2024 BID Addendum #3
SEA EACH		SEALANT			SEALANT — EACH SIDE			-					FRAME	
)08 = •								<u>5/8" ד</u>	TYPE-X GYP R	OARD-				DRAWN BY PROJECT NUMBER Author 2022-052
SEE FRA TYPES F	ME COR	TYPES F THICKNE	FOR L		FKAWE			. EA. SI	IDE. PRIME & F	INISH SEALANT	(J1)	EA.		CHECKED BY DATE Checker 4/5/2024
THUCKINE	(H1)			(H2)		(H3)				EA. SIDE			\sim ζ	SCHEDULES AND DETAILS
													\prec) SHEET NUMBER
	DOR DETAILS													ΛΩΛΩ
/ SCA	LE: 1 1/2" = 1'-0" 、人 . 人 人	. λ	<u>م</u> ک	λλ	<u>ک</u> ک	λ.	٦.	۸ _	λ	. λ	<u>م</u> ۸	. Д Л		
\searrow			\sim			$\langle \mathcal{N} \rangle$					\sim /			

							DOOR	SCHEI	DULE							NOTE: WALL ELEVATIONS INDICATED ON THE ROOM
SYM DOOI	IBOL LO R No. ROC	DCATION DM NAME	DOO WIDTH HEI	R SIZE GHT THICH	KNESS EL	DOOR 1 EV. MATE	TYPE RIAL FINISH	ELEV.	FRAME MATERI	TYPE AL FINISH	H HEA	DETAILS D JAMB	HARDWAR	E FIRE RATING	GLAZING REMARKS	FINISH SCHEDULE ARE BASED ON SHEET NORTH.
124 12 12	IDA SERVING 8A MULTI-PURP 8B MULTI-PURP	POSE ROOM	3' - 0" 7' - 6' - 0" 7' - 6' - 0" 7' -	0" 0' - ^ 0" 0' - ^ 0" 0' - ^	1 3/4" N 1 3/4" N 1 3/4" N	530 WI 530 WI 530 WI	D PF D PF D PF	1 1 1	HM HM HM	PT PT PT	H1 H1 H1	J1 J1 J1	6 3 3	45 MIN 45 MIN 45 MIN		MOTE: GC SHALL COORDINATE CARD ACCESS EQUIPMENT WITH THE DISTRICT'S EXISTING CARD ACCESS VENDOR, ALLTECH INTEGRATIONS AT 888-692-8483. COORDINATE WITH EC ON FINAL CONNECTIONS AND POWER REQUIREMENTS
120 120 13	8C MULTI-PURP 8D SERVING 5A COBBIDOR	POSE ROOM	7' - 3" 8' - 3' - 0" 7' - 8 6' - 0" 7' -	6" 0' 1/2" 0' - (0" 0' - (- 2" 0 1/2" 1 3/4"	R1 MT R2 MT	L MFR L MFR		 HM	 PT	H1		8 8 4	45 MIN 45 MIN 45 MIN		
13	5ACONNIDOR5CIT STORAGE40STRENGTH 8	& CONDITIONING	3' - 0" 7' - 3' - 0" 7' - 3' - 0" 7' -	0" 0' - ^ 0" 0' - ^	1 3/4" 1 3/4" 1 3/4" N	F WI 530 WI	PT D PF D PF	2	HM	PT PT PT	H2 H3	J2 J2 J2 J2	5 1	45 MIN 45 MIN 45 MIN	 CARD READER	
14 14 14	0A CHANGING 0B TR/SHOWER 0C STRENGTH &	ROOM ROONDITIONING	3' - 0" 3' - 0" 3' - 0" 7' -	0" 0' - 7 0" 0' - 7	1 3/4" 1 3/4" 1 3/4" E	F Wil F Wil TR ET	PF D PF R ETR	1 4	HM HM HM	PT PT PT	H1 H1 H2			45 MIN	 CARD READER -	
	4A CORRIDOR		5' - 8" 7' -	0" 0'	1 3/4"	-G ALU	M MFR	3	ALUM	I MFR	НЗ	j J2	2		REINSTALL EXISTING DOOR IN NEW FRAME	
	4B CORRIDOR		6' - 0" 7' -	0" 0'-	<u>1 3/4"</u>	G ALU		3			<u>нз</u>					
	ROOM		FLOORS		_	RO		ISH S	CHEC	DULE			CEILING	38		
No.	NAME	MATERIAL	FINISH ACCE	INT BASE	FINISH	RTH MATERIAL F		RIAL FINIS	SOUTH H MATER	IAL FINISH	EST	FINISH	ACCENT	HEIGHT	REMARKS	
14 100A 100B 100C	STAIR MAIN OFFICE CONFERENCE SECONDARY PRINC.	ETR ETR ETR ETR	CPT LV CPT - CPT -	RB RB RB	ETR ETR ETR ETR	ETR PW ETR ETF ETR ETF ETR ETF	T/P1 ETR R ETR R ETR R ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	- - -			
100D 100E 100F	STUDENT ASSISTANC ELEM. PRINC. GUIDANCE	E ETR ETR E	CPT - CPT - CPT -	RB RB RB	ETR ETR ETR	ETR ETF ETR ETF ETR ETF	R ETR R ETR R ETR	ETR ETR ETR	ETR ETR ETR	ETR ETR ETR	ETR ETR ETR	ETR ETR ETR	- - -			
103 103A 107	LIBRARY CIRCULATION KINDERGARTEN	ETR ETR ETR	CPT LV CPT LV LVT -	Г RB Г RB RB	PT PT ETR	ETR PT ETR ETF ETR ETF	ETR R ETR R ETR	PT ETR ETR	ETR ETR ETR	PT ETR ETR	ETR ETR ETR	ETR ETR ETR		9'-0" 9'-0" 9'-0"		
117 117A 117B 117C	OFFICE	ETR ETR ETR ETR	VCT - CPT - CPT -	RB RB RB RB	ETR ETR ETR ETR	ETR ETF ETR ETF ETR ETF ETR ETF	R ETR R ETR R ETR R ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	ETR ETR ETR ETR	- - -	9'-0" 9'-0" 9'-0"		
117D 117F 118	PRACTICE LIFT LANDING HEALTH	ETR ETR ETR	CPT - VCT - LVT -	RB RB RB	ETR ETR ETR	ETR ETF ETR ETF ETR ETF	R ETR R ETR R ETR	ETR ETR ETR	ETR ETR	ETR ETR ETR	ETR ETR ETR	ETR ETR ETR	- - -	9'-0" 9'-0" 9'-0"		
120 121 122	CONFERENCE PRE-K TEACHERS LOUNGE	ETR ETR ETR	CPT - LVT - ETR -	RB RB RB	PT ETR ETR	ETR PT ETR ETF ETR ETF	ETR R ETR R ETR	PT ETR ETR	GYP ETR ETR	PT ETR ETR	GYP ETR ETR	ACT ETR ETR	-	9'-0" 10'-0" 9'-0" 3		
124 124D 128	SERVING MULTI-PURPOSE ROC	ETR ETR DM ETR	QT - LVT LV	QT QT F PRT	ETR ETR PWT/WD	WP ETF ETR PW	R WP T/PT ETR	ETR ETR PWT/PT	WP WP ETR	ETR ETR PWT/PT	WP WP ETR	ACT (WET) ACT (WET) PT	- - CLOUD	9'-0" 9'-0" EXPOSED	PAINT EXPOSED STRUCTURE, PIP CONDUIT; CLOUD HT. PER RCF	ING,
131 135 135C	DATA CORRIDOR IT STORAGE	ETR ETR ETR	VCT - ETR LVT -	RB PRT RB	ETR PWT/PT PT	ETR ETF ETR PW GYP ETF	R ETR T/PT ETR R ETR	ETR PWT ETR	ETR ETR ETR	ETR PWT ETR	ETR ETR ETR	ETR ETR ACT	-	9'-0" 9'-0" 9'-0"		
140 140A 140B	STRENGTH & CONDIT CHANGING ROOM TR/SHOWER	IONING ETR ETR ETR	RFT - RFT - CMT -	RB RB CMT	ETR PT FTR	ETR PT GYP PT FTR PW	GYP GYP T GYP	PT PT PWT	GYP GYP GYP	ETR PT PWT	ETR GYP GYP	ACT GYP GYP	-	9'-0" 9'-0" 9'-0"	ONLY NORTHWEST CORRIDOR TO HAY CEILING; ALL OTHER EXISTING TO R	
144 144A 144B	CORRIDOR TR TR	ETR ETR ETR ETR	ETR - ETR - ETR -	PRT CMT CMT	PWT/PT CMT CMT	ETR PW GYP ETF GYP ETF	T/PT ETR R ETR R ETR	PWT/PT ETR ETR	ETR ETR ETR	PWT/PT ETR ETR	ETR ETR ETR	ETR ETR ETR		12'-0" 12'-0" 12'-0"		KEY PLAN:
147B 148A 159	STAIR STAIR CORRIDOR	ETR ETR ETR	ETR - ETR - ETR -	PRT PRT CMT	PWT/PT PWT/PT PWT/PT	ETR PW ETR PW ETR PW	T/PT ETR T/PT ETR T/PT ETR	PWT PWT/PT PWT/PT	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	ETR ETR ETR	-	10'-0"		
161 165 170 171	STAIR STAIR VESTIBULE STAIR	ETR ETR ETR ETR	ETR - ETR - ETR -	PRT PRT PRT PRT	PWT/PT PWT/PT PWT/PT	ETR PW ETR PW ETR PW ETR PW	T/PT ETR T/PT ETR T/PT ETR T/PT ETR T/PT ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR ETR	ETR ETR ETR ETR				
183 211A 227	LOBBY HOME & CAREERS CORRIDOR	ETR ETR ETR ETR	ETR - LVT - ETR -	ETR RB CMT	ETR ETR PWT/PT	ETR ETF ETR ETF ETR PW	R ETR R ETR R ETR T/PT ETR	ETR ETR PWT/PT	ETR ETR ETR ETR	ETR ETR PWT/PT	ETR ETR ETR ETR	ETR ETR GYP		ETR 9'-0" 9'-0"		
238 240 248B	CORRIDOR CORRIDOR STAIR	ETR ETR ETR	ETR - ETR - ETR -	PRT PTR-1 ETR	PWT/PT PWT/PT PWT/PT	ETR PW ETR PW ETR PW	T/PT ETR T/PT ETR T/PT ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	ETR ETR ETR	-	9'-0" ETR	SEE KEYNOTES 7A/A111 AND 7/A113	B FOR
250 256 281	CORRIDOR CORRIDOR STAIR	ETR ETR ETR	ETR - ETR - ETR -	PRT PRT ETR	PWT/PT PWT/PT PWT/PT	ETR PW ETR PW ETR PW	T/PT ETR T/PT ETR T/PT ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	PWT/PT PWT/PT PWT/PT	ETR ETR ETR	ETR ETR ETR	- - -	9'-0" ETR	SEE KEYNOTE 7/A113	
					·	MA		L SCH	IEDUI	_E			·			SED NO. 22-14-01-04-0-001-014
	GROUP TYPE MARK	PRODUCT DESCR	RIPTION MA	NUFACTURER		PRODUCT NAME	F		/BER	PRODUCT MAK	(E	SIZE		COMMENTS	LOCATION	IMPORTANT INFORMATION AND SHALL BE PRINTED IN COLOR IF REPRODUCED BY A CONTRACTOR.
BASE BASE BASE BASE	CMT-2 PRT-1 VB-1	CERAMIC COVE BASE PORCELAIN BASE TILE VINYL BASE	TILE DALTII DALTII FLEXC	_E _E :O	PORTFOLIO PORTFOLIO WALL BASE		P3 P4 023	6C9 3C9	DOV DOV PEBI	E GREY MATTE E GREY MATTE BLE	6"X1 3"X1 4"	2" CC 2" BU	IVE BASE; GROU LLNOSE BASE T	IT: MAPEI 02 PEWTER O MATCH WALL TILE		BCA Architects & Engineers Watertown Ithaca Saratoga Springs Rochester
CEILING CEILING FLOORIN	ACC-1		EILING ARMS		SOUNDSCA	PES SHAPES : HE	XAGONS 54	4	WHI ⁻		48">	(48"X7/8" DE		T 5450	MULTI-PURPOSE ROOM	COPYRIGHT © 2023 - BCA ARCHITECTS & ENGINEERS, WARNING - IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO THIS DOCUMENT AS PER ARTICLE 145 AND 147.
FLOORIN FLOORIN FLOORIN	IG CM I-1 IG CPT-1 IG LVT-1	CERAMIC FLOOR TILE CARPET TILE LUXURY VINYL TILE	DALTI MOHA PATCF	LE WK RAFT	ACADEMIC \ BASIS OF DE	/IEW ESIGN: LINOCUT	BT 156	05 133 0V 00750	959 S BLO	GREY SLATE CK-V1	2"X2 24"X 9"X3	2" GF (24" INS 6" INS AS	STALL: MAPELOGO STALL: BRICK AS STALL: HERRING HLAR CLASSRO	GRAY HLAR BONE RANDOM 20%(I OMS	MULTIPURPOSE); MULTI-PURPOSE ROOM CLASSROOMS	
FLOORIN FLOORIN FLOORIN	IG LVT-2 IG QT-1 IG RFT-1	LUXURY VINYL TILE QUARRY TILE RUBBER FLOORING	PATCF DALTII FLEXC	RAFT _E :0	BASIS OF DE QUETREAD RUBBER SP	ORTS FLOORING	156 0Q PS	0V 00500 96 F-001	MIRF CHA BLAC	Ror-V1 Rcoal CK Dahlia	9"X3 6"X6	36" INS 5" GF	STALL: HERRING	BONE RANDOM 80%(I GRAY	MULTIPURPOSE MULTI-PURPOSE ROOM	
FLOORIN MISCELL	IG VCT-1 ANEOUS ANEOUS SS-1	SOLID SURFACE WIND	E TARKE	NART	SOLID SURF	ACE	91	0 06RS		TER STORM WG	12"X =	(12"	(3" BULLNOSE W	INDOW SILL; RE: DET	AIL	ARCHITECTS
WALLS WALLS WALLS	CWT-1 PT-1 PT-2	CERAMIC WALL TILE PAINT PAINT	MATC SHER SHER	H EXISTING WIN WILLIAMS WIN WILLIAMS	MATCH EXIS EGGSHELL I EGGSHELL I	TING FINISH LATEX PA FINISH LATEX PA	NT SV NT SV	7004	SNO AGR	WBOUND EEABLE GRAY		PA (W (LI	TCH AND MATCI HITE) GHT GRAY)	H EXISTING	THROUGHOUT UNO	ENGINEERS
WALLS WALLS WALLS	PT-3 PT-4 PT-5	PAINT PAINT PAINT PAINT	SHER SHER SHER	WIN WILLIAMS WIN WILLIAMS WIN WILLIAMS	EGGSHELLI EGGSHELLI EGGSHELLI	FINISH LATEX PA FINISH LATEX PA FINISH LATEX PA	NT SW NT SW NT SW	7018 7588 6258	DOV SHO TRIC	ETAIL WSTOPPER ORN BLACK	4.2%	(D/ (RI (BI	ARK GRAY) ED) LACK) TV ALCOV			aration.
WALLS	WD-1	WOOD WALL TILE	TILE C	LUB	BASIS OF DE	ESIGN: JAPANDI	TC	ZENDEMAP24	48 MAP	LE SLAT WALL T	TLE 23.7	"X47.25" 1/8 SL	" GROUT JOINT: ATS VERTICAL	LATICRETE 30 SAND	BEIGE INSTALL: MULTI-PURPOSE ROOM	
WALLS WALLS	WP-1 WP-2 WP-3	WALL PROTECTION WALL PROTECTION WALL PROTECTION	PAWL CORP ALTRO ALTRO	NG ORATION	ALTRO WHIT	EROCK	99)4	WHI WAR	TE RM WOODGRAIN TE MINERAI	4'X8 4'X8 4'X8	' FIN '-2"	IE GRAIN PATTE	RN (WINDRIFT)	KITCHEN	KNIGHTS
		$\bigvee \bigvee \bigvee$	$\sum_{i=1}^{n}$	\sim		$\widehat{}$		γ	$\bigvee \longrightarrow$	\sim		γ	\frown	\sim		
			EXISTING-													LAFARGEVILLE CSD CAPITAL IMPROVEMENT PROJECT
5/8" BI	TYPE-X GYP. D EACH SIDE	-METAL STUDS	BLOCK WALL			EXISTING BLOCK WALL			(3) N	IETAL ANCHOR	S PER JAMB-	_		(3) AN PE	METAL CHORS R JAMB	K12 BUILDING
META HEADEF GAL	AL STUD BOX R, SEE LIGHT JGE HEADER SCHEDULE	PROV	IDE LINTEL, SEE-			EXISTING LINTEL TO		ES FOR	CKNESS	Μ	IETAL STUD- PARTITION			MA: Paf Or	SONRY 2" 1/2" RTITION	REV DATE DESCRIPTION ③ 4/15/2024 BID Addendum #3
	SEALANT EACH SIDE		SEALANT EACH— SIDE			SEALANT EACH SIDE			-+ -+				FR DO	AME UBLE STUD JAMB		
DO			DOOR FRAME SEE FRAME TYPES FOR			DOOR FRAME			5/ FA	8" TYPE-X GYP. . SIDE. PRIMF &	BOARD FINISH	A A A A A A A A A A A A A A A A A A A		S	EALANT A. SIDE	DRAWN BY Author 2022-052 CHECKED BY DATE
T T	TYPES FOR THICKNESS	(H1)	THICKNESS	H			(H	3)			SEALANT EA. SIDE		(J1)		J2	Checker 4/5/2024 SCHEDULES AND DETAILS
																SHEET NUMBER
4	DOOR DE															–) A800
\searrow			\checkmark \checkmark		\nearrow	\sim	\checkmark \sim	\checkmark \sim		\checkmark \sim		\checkmark	$\$			J BID SET

