

ADDENDUM NO. 2
TO
CONTRACT DOCUMENTS
AND
TECHNICAL SPECIFICATIONS
FOR
VILLAGE OF WOODBURY BUILDING DEPARTMENT,
HIGHLAND MILLS, NY 10930

Village of Woodbury Building Department
19 Adams Street,
Highland Mills, NY 10930

Telephone No. 845-291-2750

Contact: Mr. Gary Thomasberger,
Building/Zoning Inspector Code Enforcement Officer

LAN Job #4.1523.01
January 15, 2021

Michael J. McGovern, RA
NYS #022257

1.0 General: The original contract documents issued **December 28, 2020** for this project are hereby amended as noted in this addendum which shall become part of said contract documents, as if originally included therein. Bidders must acknowledge receipt of this addendum and all other addenda on the proposal form when submitting proposals. In case any bidder fails to acknowledge receipt of addenda, his proposal will nevertheless be construed as though it has been received, acknowledged, and the submission of his proposal shall constitute acknowledgment by the bidder of the receipt of same.

Sealed bids for Interior Renovations of the Village of Woodbury Building Department will be received by Ms. Desiree Potvin, Village Clerk, of the Village of Woodbury, at the Village of Woodbury, 455 Route 32, Highland Mills, NY 10930 up to and including January 26, 2021 at 2:00 P.M.

2.0 Amendment to Application:

N/A

3.0 Amendments to Specifications:

Section No.	Page No.	Addendum Requirements
TOC		The Table of Contents have been revised.
096513		Resilient Base and Accessories has been added.
096813		Tile Carpeting has been added.

4.0 Amendments to Drawings:

Drawing No.	Addendum Requirements
A6.01	Door Schedule is updated to reflect the Hardware Sets.

5.0 Contractors RFI's/Questions:

No.	Question / Response
1	Question: Are there specs for the door hardware? Response: Specification section 087100 "Door Hardware" has been added and is attached.
2	Question: Will the fire, alarms, security be by others and will the owners be coordinating the work? Response: Confirmed. Fire alarms and security systems are "by others" and should be coordinated with the Owner.
3	Question: On equipment schedule M6.01, can AH-1,2,3 and Accu-1,2,3 be Lennox Equipment or equivalent? Response: Confirmed, equipment can be an equivalent "or equal".

5.0 Contractors RFI's/Questions:

No. Question / Response

4 Question: On equipment schedule M6.01, Electric resistance cabinet/unit heater Note: 4 – who is the BMS controls company? Or is all equipment locally controlled by programmable thermostats?

Response: Revise Note 4 to read “Provide wall mounted thermostat.”

5 Question: Per page A6.01 interior finish schedule, the floor finish in some of the rooms is noted as carpet. There is no additional information for the carpet. Please clarify.

Response: Refer to attached specification section 096813 Tile Carpeting for carpeting information.

6 Question: Is there a way to set up another site visit?

Response: Yes. Please coordinate any site visit outside the Pre-Bid Meeting (which occurred on January 11, 2021) with the Owner, Gary Thomasberger, by calling him at (845) 928 – 6911 extension 51.

7 Question: Please provide finish specs for carpeting and resilient wall base per the finish schedule.

Response: Refer to attached specification section 096813 Tile Carpeting for carpeting information, and specification section 096513 Resilient Base and Accessories for information on the basis of design finishes.

8 Question: Does this project require a Project Labor Agreement.

Response: No, this project does not require it.

9 Question: Please provide spec for carpet.

Response: Refer to attached specification section 096813 Tile Carpeting for carpeting information.

10 Question: Please clarify the extent of exterior painting required.

Response: Exterior Painting is limited to any touchups that may be required.

6.0 Clarifications:

No.

N/A

Attachments:

1. Table of Contents
2. Specification Section 087100 Door Hardware
3. Specification Section 096513 Resilient Base & Accessories
4. Specification Section 096813 Tile Carpeting
5. A6.01 Finish & Door Schedule, Door Types

END OF ADDENDUM NO. 1

ADD NO. 2 - 3

TABLE OF CONTENTS

<u>DIVISION NO.</u>	<u>TITLE</u>	<u>PAGE NO.</u>
DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS		
00 02 00	Notice to Bidders	000200-1
00 10 00	Instructions to Bidders	001000-1
00 30 00	Bid Form-Contract 1G General Construction.....	003000-1
00 41 00	Bid Bond.....	004100-1
00 43 00	Stockholder & Partnership Interest Affidavit	004300-1
00 48 00	Non-Collusive Affidavit.....	004800-1
00 49 00	Contractor’s Qualification Statement	004900-1
00 49 50	Disclosure of Prior Non-Responsibility Determinations	004950-1
00 49 51	Iran Divestment Act Certification.....	004951-1
00 50 00	SAMPLE Public Improvement Contract.....	005000-1
00 61 00-A	Performance Bond	006100A-1
00 61 00-B	Payment Bond.....	006100B-1
00 61 00-C	Maintenance Bond	006100C-1
00 81 00	Prevailing Wage Schedule & Project Labor Agreement	008100-1
DIVISION 01 – GENERAL REQUIREMENTS		
01 00 00	General Conditions	007000-1
01 10 00	Summary of Work	011000-1
01 23 00	Alternates	012300-1
01 31 00	Project Management and Coordination	013100-1
01 32 33	Photographic Documentation.....	013233-1
01 33 00	Submittal Procedures.....	013300-1
01 40 00	Quality Requirements.....	014000-1
01 50 00	Temporary Facilities and Controls	015000-1
01 56 10	Temporary Fencing.....	015610-1
01 73 00	Execution Requirements	017300-1
01 73 20	Selective Demolition.....	017320-1
01 77 00	Closeout Procedures.....	017700-1
01 78 23	Operation and Maintenance Data	017823-1
01 78 39	Project Record Documents	017839-1
DIVISION 02 – DEMOLITION		
02 41 00	Demolition	024100-1
DIVISION 03 – CONCRETE		
03 54 16	Cement-Based, Interior, Self-Leveling Underlayment.....	035416-1
DIVISION 04 – MASONRY		
04 01 10	Masonry Cleaning.....	040110-1
04 01 20	Unit Masonry Restoration	040120-1
DIVISION 05 – METALS		
05 40 00	Cold Formed Steel Framing.....	054000-1

<u>DIVISION NO.</u>	<u>TITLE</u>	<u>PAGE NO.</u>
DIVISION 06 – WOOD, PLASTICS AND COMPOSITES		
06 10 00	Rough Carpentry.....	061000-1
06 10 53	Miscellaneous Rough Carpentry.....	061053-1
DIVISION 07 – THERMAL AND MOISTURE PROTECTION		
07 92 00	Joint Sealants.....	079200-1
DIVISION 08 – OPENINGS		
08 43 13	Thermally Broken Aluminum-Framed Storefronts	084313-1
08 71 00	Door Hardware	087100-1
DIVISION 09 – FINISHES		
09 29 00	Gypsum Board	092900-1
09 65 13	Resilient Base and Accessories.....	096513-1
09 68 13	Tile Carpeting	096813-1
09 91 13	Exterior Painting.....	099113-1
09 91 23	Interior Painting.....	099123-1
DIVISION 13 – SPECIAL CONSTRUCTION		
13 12 50	Super-Lumideck.....	131250-1
DIVISION 22 – PLUMBING		
22 00 00	Plumbing Summary of Work.....	220000-1
22 05 01	Basic Plumbing Materials and Methods.....	220501-1
22 05 17	Sleeves and Sleeve Seals for Plumbing.....	220517-1
22 05 18	Escutcheons for Plumbing Piping.....	220518-1
22 05 19	Meters and Gages for Plumbing Piping.....	220519-1
22 05 23	Valves	220523-1
22 05 29	Hangers and Supports for Plumbing Piping and Equipment	220529-1
22 05 48	Vibration Controls.....	220548-1
22 05 53	Identification for Plumbing Piping and Equipment	220553-1
22 07 19	Plumbing Piping Insulation.....	220719-1
22 11 16	Domestic Water Piping	221116-1
22 11 19	Domestic Water Piping Specialties.....	221119-1
22 13 16	Sanitary Waste and Vent Piping	221319-1
22 13 19	Sanitary Waste Piping Specialties	223319-1
22 41 00	Plumbing Fixtures	224100-1
DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING		
23 00 00	Mechanical Summary of Work.....	230000-1
23 05 00	Common Work Results for HVAC.....	230500-1
23 05 13	Common Motor Requirements for HVAC Equipment	230513-1
23 05 29	Hangers and Supports for HVAC Piping and Equipment	230529-1
23 05 53	Mechanical Identification.....	230553-1
23 05 93	Testing, Adjusting, and Balancing.....	230593-1
23 07 19	Piping Insulation.....	230719-1
23 09 93	Sequence of Operations for HVAC controls	230993-1

<u>DIVISION NO.</u>	<u>TITLE</u>	<u>PAGE NO.</u>
DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING (continue)		
23 23 00	Refrigerant Piping	232300-1
23 31 13	Metal Ducts	233113-1
23 33 00	Air Duct Accessories	233300-1
23 34 16	Centrifugal HVAC Fans.....	233416-1
23 37 13	Diffusers, Registers, and grilles	233713-1
23 81 26	Split-System Air-Conditioners	238126-1

DIVISION 26 – ELECTRICAL

26 05 00	Basic Electrical Materials and Methods	260500-1
26 05 01	Electrical-General.....	260501-1
26 05 10	Wiring Methods	260510-1
26 05 18	Low-Voltage Electrical Power Conductors and Cables	260518-1
26 05 19	Wire and Cable	260519-1
26 05 26	Grounding and Bonding for Electrical Systems	260526-1
26 05 29	Hangers and Supports for Electrical Systems	260529-1
26 05 33	Raceways.....	260533-1
26 05 34	Raceways and Boxes.....	260534-1
26 05 48.16	Seismic Controls for Electrical Systems	260548.16-1
26 05 53	Electrical Identification	260553-1
26 24 16	Panelboards	262416-1
26 27 13	Electricity Metering.....	262713-1
26 27 25	Wiring Connections	262725-1
26 27 26	Wiring Devices	262726-1
26 28 16	Enclosed Switches And Circuit Breakers.....	262816-1
26 51 00	Lighting.....	265100-1
26 51 19	LED Interior Lighting	265119-1

DIVISION 27 – COMMUNICATIONS

27 05 00	Common Work Results for Communications.....	270500-1
27 05 26	Grounding and Bonding for Communications.....	270526-1
27 05 28	Pathways for Communications Systems.....	270528-1
27 10 00	Structured Cabling	271000-1
27 13 00	Communications Backbone Cabling	271300-1
27 15 00	Communications Horizontal Cabling.....	271500-1
27 66 00	Communications Equipment Rooms and Fitting.....	276600-1

LIST OF TABLES

<u>Table No.</u>	<u>Title</u>	<u>Page No.</u>
1-1	Liquidated Damages	011000-37

LIST OF DRAWINGS

(Not Bound in Specifications)

<u>Drawing No.</u>	<u>Title</u>
T0.01	Title Sheet & General Notes
A1.01	Demolition Plan
A1.02	Demolition Reflected Ceiling Plan
A1.03	Roof Plan
A2.01	Proposed Floor Plan
A3.01	Proposed Elevations
A5.01	Reflected Ceiling Plan, Notes, & Details
A6.01	Door Schedule, Door Types, and Details
A7.01	Proposed Interior Elevations
A8.01	Details
M0.01	Mechanical General Notes, Legend & Abbreviations
M1.01	Partial Mechanical Floor Plan – Demolition
M2.01	Partial Mechanical Floor Plan
M6.01	Mechanical Schedules
M6.02	Mechanical Details
E0.01	Cover Sheet
E1.01	Electrical Demolition Sheet
E2.01	Proposed Electrical Plan
E5.01	Proposed Lighting Plan & Details
P1.01	Partial Plumbing Plan
P2.01	Partial Plumbing Plan Proposed
P6.01	Plumbing Schedules, Details & Notes

SECTION 087100 – DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Hollow Metal Doors and Frames”.
 - 2. Division 08 Section “Flush Wood Doors”.
- 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. CAN/ULC-S104 – Standard Method for Fire Tests of Door Assemblies.
4. ANSI/UL 294 – Access Control System Units.
5. ULC-S319 - Electronic Access Control Systems.
6. ULC-60839-11-1, Alarm and Electronic Security Systems - Part 11-1: Electronic Access Control Systems - System and Components Requirements.
7. CAN-ULC-S132 -- Standard Method of Tests for Emergency Exit and Emergency Fire Exit Hardware.
8. CAN-ULC-S533 - Egress Door Securing and Releasing Devices.
9. UL 305 – Panic Hardware.
10. ULC-S132, Emergency Exit and Emergency Fire Exit Hardware.
11. ULC-S533 – Egress Door Securing and Releasing Devices.
12. ANSI/UL 437- Key Locks.
13. ULC-S328, - Burglary Resistant Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of

other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

- C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- D. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

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

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

1.5 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".

1.6 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.

1.7 WARRANTY

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

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

- A. Hinges: ANSI/BHMA A156.1 certified 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 Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 - 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" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" heavy weight.
 - 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 unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

- a. Non-removable Pins: 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.

5. Manufacturers:

- a. Bommer Industries (BO).
- b. Hager Companies (HA).
- c. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).

- B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. 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. Bommer Industries (BO).
- b. Hager Companies (HA).
- c. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.3 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

- a. Door Controls International (DC).
- b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
- c. Trimco (TC).

- B. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.

2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches 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-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
5. Manufacturers:
 - a. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).

2.4 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.
- C. Cylinders: Original manufacturer cylinders complying with the following:
 1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
 2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
 4. 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.
 5. Keyway: Match Facility Standard.
- 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 Keys (where required): Ten (10).
- F. Construction Keying: Provide construction master keyed cylinders.
- G. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
 1. Manufacturers:
 - a. Lund Equipment (LU).
 - b. MMF Industries (MM).
 - c. Telkee (TK).

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.
 1. Furnish with solid cast levers, standard 2 3/4" backset, and 1/2" (3/4" at paired openings) throw brass or stainless steel latchbolt.
 2. Locks are to be non-handed and fully field reversible.
 3. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.2 requirements to 2 million cycles.
 4. Manufacturers:
 - a. Corbin Russwin Hardware (RU) – CL3300 Series.
 - b. Sargent Manufacturing (SA) – 10 Line.
 - c. Schlage (SC) – ND Series.

2.7 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. Short-Lip: For use with astragal.

4. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
5. 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.

2.8 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
3. Except on fire rated doors, provide exit devices with key cylinder dogging device to hold the pushbar and latch in a retracted position.
4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
5. 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.
6. 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.
7. 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.

8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. 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.

2.9 DOOR CLOSERS

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

- a. Corbin Russwin Hardware (RU) – DC6000 Series.
- b. Norton Door Controls (NO) – 7500 Series.
- c. Sargent Manufacturing (SA) – 351 Series.

C. Door Closers, Surface Mounted (Unitrol): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted closers with door stop mechanism to absorb dead stop shock on arm and top hinge. Hold-open arms to have a spring loaded mechanism in addition to shock absorber assembly. Arms to be provided with rigid steel main arm and secondary arm lengths proportional to the door width.

1. Manufacturers:

- a. Corbin Russwin Hardware (RU) – Unitrol Series.
- b. Norton Door Controls (NO) – Unitrol Series.

2.10 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: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:

- a. Hiawatha, Inc. (HI).
- b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
- c. Trimco (TC).

2.11 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 certified 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. Hiawatha, Inc. (HI).
 - b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
 - c. Trimco (TC).
- 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. Rixson Door Controls (RF).
 - b. Sargent Manufacturing (SA).
 - c. Glynn Johnson.

2.12 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. National Guard Products (NG).
 - 2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
 - 3. Reese Enterprises, Inc. (RE).

2.13 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.

2.14 FINISHES

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

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

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

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 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. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - 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 Division 7 Section "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.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Section "Closeout Procedures" for project punch and reporting requirements including compliance with approved submittals and verification door hardware is properly installed, operating and adjusted.

3.5 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.

3.6 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.

3.7 DEMONSTRATION

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

3.8 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.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. RU - Corbin Russwin
5. RF - Rixson
6. NO - Norton

Hardware Sets

Set: 1.0

Description: Exterior

1 Continuous Hinge	CFM-HD1 Series		PE
1 Rim Exit Device, Classroom	ED5200 N955ET M52	630	RU
1 Surface Closer	UNI7500	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 Threshold (coord w/ details)	273x292AKFGPK		PE
1 Head & Jamb Gasketing	2891APK		PE
1 Rain Guard (head mount)	346C DOW + 4"		PE
1 Sweep	315CN		PE

Set: 2.0

Description: Vestibule

1 Continuous Hinge	CFM-HD1 Series		PE
1 Rim Exit Device, Classroom	ED5200 N955ET M52	630	RU
1 Surface Closer	UNI7500	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
1 Threshold (coord w/ details)	271A FHSL14SS		PE
1 Head & Jamb Gasketing	2891APK		PE
3 Silencer	608		RO

Set: 3.0

Description: Vestibule Interior Door

1 Continuous Hinge	FM300	630	MR
1 Exit Device (SVR, LBR, classroom)	6170F LBR AU626F IC x temp core	630	YA
1 Electronic Cylinder/Core	By Owner	26	MC
1 Concealed Overhead Stop	1-X36	630	RF
1 Surface Closer	7500 Series	689	NO
1 Kick Plate	K1050 6" 4BE CSK	US32D	RO

Set: 4.0

Description: Toilet

1 Continuous Hinge	CFM-HD1 Series		PE
1 Privacy Lock	CL3320 NZD	626	RU
1 Surface Closer	UNI7500	689	NO
1 Kick Plate	K1050 10" 4BE CSK	US32D	RO
3 Silencer	608		RO
1 Coat Hook	806	US26D	RO

Set: 5.0

Description: Proposed Storage

3 Hinge (heavy weight)	T4A3786 (qty, size, nrp per spec)	US26D	MK
1 Classroom Lock	AUR 8808-2FL IND IC x temp core	626	YA
1 Electronic Cylinder/Core	By Owner	26	MC
1 Surface Closer	7500 Series	689	NO
1 Kick Plate	K1050 6" 4BE CSK	US32D	RO
1 Door Stop	401; 404; 441CU (or per spec)	US26D	RO

END OF SECTION 087100

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Resilient base.
 - 2. Resilient molding accessories.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified, not less than **12 inches** long.
- C. Samples for Initial Selection: For each type of product indicated.
- D. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than **12 inches** long.
- E. Product Schedule: For resilient base and accessory products. Use same designations indicated on Drawings.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Furnish not less than 20 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.5 QUALITY ASSURANCE

- A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Coordinate mockups in this Section with mockups specified in other Sections.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.7 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
- C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 THERMOPLASTIC-RUBBER BASE

- A. Product Standard: ASTM F 1861, Type TP (rubber, thermoplastic).
 - 1. Group: I (solid, homogeneous) or II (layered).
 - 2. Style and Location:
 - a. Style A, Straight: Provide in areas with carpet.
 - b. Style B, Cove: Provide in areas with resilient flooring.
 - 1) Profile: As indicated
- B. Thickness: **0.125 inch**
- C. Height: As indicated on Drawings.
- D. Lengths: Coils in manufacturer's standard length..
- E. Outside Corners: Job formed or preformed.
- F. Inside Corners: Job formed or preformed.
- G. Colors: As selected by Architect from full range of industry colors.

2.2 VINYL BASE

- A. Product Standard: ASTM F 1861, Type TV (vinyl, thermoplastic).
 - 1. Group: I (solid, homogeneous) or II (layered).
 - 2. Style and Location:
 - a. Style A, Straight: Provide in areas with carpet.
 - b. Style B, Cove: Provide in areas with resilient flooring.
 - 1) Profile: As indicated
- B. Thickness: **0.125 inch**
- C. Height: As indicated on Drawings.
- D. Lengths: Coils in manufacturer's standard length.
- E. Outside Corners: Job formed or preformed.
- F. Inside Corners: Job formed or preformed.
- G. Colors: As selected by Owner from full range of industry colors.

2.3 RUBBER MOLDING ACCESSORY

- A. Description: Rubber reducer strip for resilient flooring, joiner for tile and carpet, transition strips
- B. Profile and Dimensions: As indicated
- C. Locations: Provide rubber molding accessories as required
- D. Colors and Patterns: As selected by Architect from full range of industry colors

2.4 VINYL MOLDING ACCESSORY

- A. Description: Vinyl reducer strip for resilient flooring, joiner for tile and carpet, transition strips
- B. Profile and Dimensions: As indicated.
- C. Locations: Provide vinyl molding accessories as required
- D. Colors and Patterns: As selected by Architect from full range of industry colors

2.5 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.

- B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
 - 1. Adhesives shall have a VOC content of 50 g/L or less.
 - 2. Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Stair-Tread Nose Filler: Two-part epoxy compound recommended by resilient stair-tread manufacturer to fill nosing substrates that do not conform to tread contours.
- D. Metal Edge Strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edges of flooring, and in maximum available lengths to minimize running joints.
- E. Floor Polish: Provide protective, liquid floor-polish products recommended by resilient stair-tread manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces according to ASTM F 710.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
 - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
 - 4. Moisture Testing: Proceed with installation only after substrates pass testing according to manufacturer's written recommendations, but not less stringent than the following:

- a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
 - b. Perform relative humidity test using in situ probes according to ASTM F 2170. Proceed with installation only after substrates have maximum **75** percent relative humidity level.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install resilient products until they are the same temperature as the space where they are to be installed.
 - 1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
- G. Preformed Corners: Install preformed corners before installing straight pieces.
- H. Job-Formed Corners:
 - 1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 6 inches in length.
 - a. Form without producing discoloration (whitening) at bends.
 - 2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 6" in length.
 - a. Miter or cope corners to minimize open joints.

3.4 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Stair Accessories:
 - 1. Use stair-tread-nose filler to fill nosing substrates that do not conform to tread contours.
 - 2. Tightly adhere to substrates throughout length of each piece.
 - 3. For treads installed as separate, equal-length units, install to produce a flush joint between units.
- C. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.
- B. Perform the following operations immediately after completing resilient-product installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Sweep and vacuum horizontal surfaces thoroughly.
 - 3. Damp-mop horizontal surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Floor Polish: Remove soil, visible adhesive, and surface blemishes from resilient stair treads before applying liquid floor polish.
 - 1. Apply one coat.
- E. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION 096513

SECTION 096813 – TILE CARPETING

PART 1 – GENERAL

1. RELATED DOCUMENTS
 - a. Division 01 Specification Sections
2. SUMMARY
 - a. This section relates to carpet tile.
3. PREINSTALLATION MEETINGS
 - a. Conducted at (insert time, location and key contact).
4. SUBMITTALS
 - a. Product Specification
 - b. Specification for Adhesive
 - c. Shop Drawings
 - d. Samples
 - e. Schedule
 - f. Qualifications for Installer
5. CLOSEOUT SUBMITTALS
 - a. Maintenance Instructions
 - b. Warranty Documents
6. QUALITY ASSURANCE
 - a. Environmental:
 - i. Green Label Plus Certified
 - ii. Cradle to Cradle Certified Gold
 - iii. NSF 140 Gold
 - iv. Health Product Declaration
 - v. Declare Label, red list compliant
 - vi. No PVC components
 - b. Installer Qualifications: Installer who has been trained in the installation of carpet tile.
 - c. Manufacturer Qualifications
 - i. ISO 14001
 - ii. ISO 9001
 - iii. Reclamation Program: Will recycle EcoWorx carpet tile free of charge for quantities of 500 SY (418 SM) or more within continental United States and Canada or 5000 SY (4180 SM) globally.
 - d. Mockups at designated location for architect review and approval.
7. MATERIAL STORAGE AND HANDLING
 - a. Store rolls on a flat surface, away from vents and direct sunlight.
 - b. Store in protected dry conditions between 65 and 85 degrees.
8. SITE CONDITIONS

The following conditions must be maintained for 24 hours prior to, during and permanently after installation:

 - a. HVAC System must be operational.
 - b. The installation site, carpet and adhesive must be between 50°F and 95°F.

- c. The installation site's ambient relative humidity must not fall below 40%.
- d. Conduct relative humidity or Anhydrous Calcium Chloride testing. Results must be within the proper range for Shaw 5000 adhesive:
 - i. Calcium Chloride ASTM F-1869 5.0 lbs per 1000 SF /24 hours
 - ii. Relative Humidity ASTM F-2170 85%
 - iii. EcoLogix ES does not require moisture or pH testing.
- e. Conduct pH testing on the floor in several locations. A reading below 5.0 or above 9.0 requires corrective measures.

PART 2 – PRODUCTS

9. TESTING REQUIREMENTS

- a. Pill Test CPSC FF 1 70: Pass
- b. Radiant Panel ASTM E648: Class I
- c. NBS smoke ASTM E662 NF: <450
- d. Static AATCC 134: <3.5 kv
- e. Coefficient of Friction: 0.6 (Meets ADA requirements)

10. TILE CARPETING

- a. Manufacturer: Patcraft
- b. Product: Eastern Facade, I0515
- c. Construction: Multi-level pattern loop
- d. Fiber: Solution Q® Nylon
- e. Dye Method: 100% Solution Q Nylon
- f. Backing: StrataWorx® Tile
- g. Protective Treatment: SSP® Shaw Soil Protection
- h. Size: 24" x 24"
- i. Gauge: 1/12
- j. Stitches: 8.5
- k. Finished Pile Thickness: 0.059
- l. Average Density: 10,032
- m. Total Thickness: 0.230
- n. Tufted Weight: 17.0 oz

11. INSTALLATION MATERIALS

- a. Adhesives:
 - i. For EcoWorx (fiberglass reinforced):
 - 1. Shaw 5000 pressure sensitive: 5 lbs. 85% RH pH 5-9
 - 2. Shaw 5100 pressure sensitive: 5 lbs. 85% RH pH 5-9
 - 3. Shaw 5036 with antimicrobial: 5 lbs. 85% RH pH 5-9
 - 4. Shaw 5800 for high moisture: 10 lbs. 95% RH pH 10
 - 5. Shaw 3800 indoor/outdoor: 8 lbs. 90% RH pH 5-9
 - 6. LokDots dry adhesive: No visible moisture pH 12
 - 7. LokWorx tabs: 10 lbs. 85 RH pH 12
 - 8. Mill-applied ES: No visible moisture

- ii. For EcoLogix (attached cushion): All, excluding LokDots and LokWorx.
- iii. For StrataWorx (light weight tile alternative to broadloom)
 - 1. Shaw 5000 pressure sensitive: 5 lbs. 85% RH pH 5-9
 - 2. Shaw 5036 with antimicrobial: 5 lbs. 85% RH pH 5-9
 - 3. Shaw 5800 for high moisture: 10 lbs. 95% RH pH 10
- b. Primer (if needed): 9050 is an acrylic solution made to neutralize excess alkali that is also recommend as a primer coat to prevent over absorption of adhesive and to ensure a better bond. Formulated with an antimicrobial agent, it provides protection against bacteria, fungi, and mildew in the wet or dry state. Contains no solvent, alcohol, or other hazardous materials per OSHA 29 CFR 1910.1200. Non-photo chemically reactive per rule #102. Available in 4-gallon pails.
- c. Leveling and Patching Compounds: Use a cementitious patching/leveling compound that meets or exceeds the required moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- d. Transition Strips

PART 3 – EXECUTION

12. EXAMINATION

- a. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content, pH, smoothness and level.
- b. If dusting or powdering exists, seal the floor with a latex primer such as Shaw 9050.

13. PREPARATION

- a. Substrates shall be smooth, structurally sound, permanently dry, clean and free of all foreign material such as dust, wax, solvents, paint, grease, oils, old adhesive residue, curing and hardening/ curing compounds, sealers and other foreign material that might prevent adhesive bond.
- b. Pre-existing Adhesive
 - i. Non-Active Multipurpose Adhesive: Remove ridges, sweep or vacuum debris.
 - ii. Active Multipurpose Adhesive: Remove ridges then eliminate the adhesive tack with a product such as Shaw 6200.
 - iii. Pressure Sensitive Adhesive Affected by Plasticizer Migration: If the previous carpet tile had a PVC backing and the plasticizer in the backing has transferred to the adhesive, you must thoroughly remove adhesive by wet scraping.
 - iv. Existing Pressure Sensitive Adhesive: Evaluate the tack level of the existing adhesive. If sufficient, the existing adhesive can be used to install

Shaw's tile products. If insufficient, apply new adhesive over existing adhesive.

- v. Active Cutback Adhesive: Wet scrape adhesive, reduce to a well-bonded residue and encapsulate with a product such as Shaw 9000.
 - vi. Non-active Cutback Adhesive: Wet scrape adhesive and reduce to a well-bonded residue.
- c. Fill depressions or cracks with a cementitious patching/leveling compound that meets or exceeds the required moisture level and pH requirements. Use of gypsum-based patching and/or leveling compounds which contain Portland or high alumina cement and meet or exceed the compressive strength of 3,000 psi are acceptable.
- d. Flooring considerations:
- i. Installing over VCT and VAT: Tiles must be secure to the subfloor. Strip any wax from the surface.
 - ii. Installing over wood subfloors: Prime with a liquid latex such as Shaw 9050.
 - iii. Installing over raised access flooring: Must be smooth, level, secure and clean. Install carpet tile at an offset from panel seams. Gaps must not exceed 1/16" (1.6 mm).

14. LAYOUT AND INSTALLATION

- a. Start the tile installation as near to the center of the room as possible and position it to use the largest perimeter cut tile size.
- b. Snap a chalk line parallel to one major wall bisecting the starting point. It may be necessary to offset the center chalk line to assure perimeter tiles will be at least half size.
- c. Snap a second chalk line from the starting point at 90° to the first line. Use a 3-4-5, 6-8-10, or larger triangle depending on the room size. Meters or feet may be used to lay out the triangle in these proportions.
- d. Use a full spread of adhesive applied with a 3/8" foam paint roller or 1/16 x 1/32 x 5/64 u-notch trowel. The adhesive must be allowed to dry completely before installing the carpet. Installing into wet adhesive will result into a permanent bond and may cause the carpet to bubble. Trowel application of adhesive is recommended for EcoLogix. EcoWorx ES / EcoLogix ES no adhesive required. Approximate coverage rates are 35-40 yards per gallon when applied with a roller, and 28 -33* yards per gallon when applied with a trowel.
- e. Install each full carton and complete an entire pallet before starting another pallet to minimize product variation. Each tile has directional arrows on the back. These arrows allow for one-directional or multi-directional installation. Some styles may be large scale or linear in design and require quarter turning. If you are unsure about whether or not your product requires a quarter turned installation, please contact 1.877.502.7429. Numbers within the arrows are for manufacturing purposes and are not related to installation.
- f. Begin installation at the intersection of two chalk lines. Continue until you complete one quadrant. Proceed to an adjoining quadrant until all four quadrants

are completed. Larger areas may require chalk lines bisecting the original four quadrants.

- g. Install tiles using the pyramid technique. This gives you multiple alignment checks. If the edges do not align and the misalignment increases with progression of the installation, find and correct the source of the problem.
- h. Carpet tiles come in various sizes. All Shaw tiles have directional arrows on the back of the tile. Slide tiles into position to prevent yarn from being trapped between the tiles. Trapped yarn will adversely affect the appearance of the installation and will cause alignment problems.
- i. EcoWorx ES /EcoLogix ES are manufactured with the adhesive already applied. Once the tile is ready to install, simply peel the liner from the back and position snugly to the adjacent tile.
- j. Tiles must fit snugly, but not be compressed. Press the entire surface of the tile to ensure adhesion. Check for fit by measuring the length of ten full tiles after installation. The measurement must not be less than, or exceed by more than 1/4 inch, the length of the tiles being multiplied by ten. For example: if 24" X 24" tiles are being installed, the measurement should be between 240 and 240 1/4 inches.
- k. Measure and cut tiles from the back using a straight edge. Be sure the arrows are pointing in the correct direction.
- l. Roll the entire installation with a 75 lb. or greater roller to assure the proper adhesion to the substrate.

15. MAINTENANCE

- a. Post-installation Care
 - i. Place plywood over the carpet when heavy objects will be moved within 24 hours after installation.
- b. Preventative Floor Care
 - i. Use protective chair mats under chairs with casters.
 - ii. Use soil removal mats at exterior entrances.
 - iii. Use absorbent mats in areas where moisture, oil and grease are present.
- c. Routine Maintenance
 - i. Set a schedule depending on traffic and vacuum regularly.
 - ii. Remove spots with spot removers as soon as they occur.
 - iii. Use encapsulation agents periodically.
 - iv. Clean with hot water extraction periodically.

Traffic Level	Vacuum	Spot Removal	Interim Cleaning	Hot Water Extraction
Light	2/week	As needed	As needed	1/year
Moderate	1/day	As needed	As needed	1/year
Heavy	1/day	As needed	Monthly	4/year
Extra Heavy	1/day	As needed	Weekly	Monthly

END OF SECTION 096813

Interior Renovations/
Village of Woodbury Building Department
Highland Mills, NY

096813-6
ADD-2

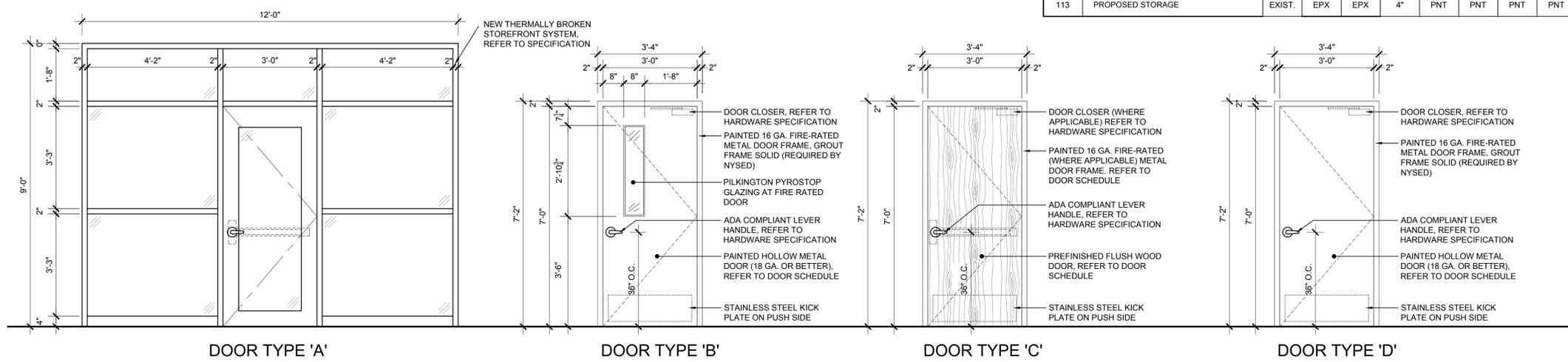
#4.1523.01

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	ROOM NAME/ NUMBER	DOOR					FRAME			SILL			HARDWARE (SEE SPECIFICATIONS)	NOTES		
			ACTION	MATERIAL	DOOR FINISH	DOOR SIZE		VISION PANEL	DETAIL NO.			DETAIL NO.	HARDWARE SET			CLOSER	PANIC
						WIDTH	HEIGHT		MAT.	HEAD	JAMB						
FIRST FLOOR																	
01	A	VESTIBULE	SINGLE SWING	ALUM	FACTORY FINISH	3'-0"	7'-0"	■	ALUM	_/_A_/_/_A_/_/_A_/_	2.0	■	■				
02	B	VESTIBULE	SINGLE SWING	HM	PAINTED	3'-0"	7'-0"	■	MTL		3.0	■	■				
03	C	PUBLIC TOILET	SINGLE SWING	WOOD	STAINED	3'-0"	7'-0"		MTL		4.0						
04	B	VESTIBULE	SINGLE SWING	HM	PAINTED	3'-0"	7'-0"	■	MTL		3.0	■	■				
05	C	PROPOSED STORAGE	SINGLE SWING	WOOD	STAINED	3'-0"	7'-0"		MTL		5.0						
06	D	PROPOSED STORAGE	SINGLE SWING	HM	PAINTED	3'-0"	7'-0"		MTL		1.0	■	■				

INTERIOR FINISH SCHEDULE

ROOM NO.	ROOM NAME	SUB-FLOOR	FLOOR FINISH	BASE	BASE HEIGHT	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	SIGNAGE SET	NOTES	CEILING	CEILING HEIGHT	ROOM NO.														
															FIRST FLOOR													
															101	EXISTING CONFERENCE	EXIST.	CPT	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"
102	EXISTING CLOSET	EXIST.	CPT	VB	4"	PNT	PNT	PNT	PNT	PNT		GWB	7'-10"	102														
103	EXISTING OFFICE	EXIST.	CPT	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"	103														
104	EXISTING OFFICE	EXIST.	CPT	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"	104														
105	EXISTING OFFICE	EXIST.	CPT	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT/ GWB	7'-10"	105														
106	EXISTING KITCHEN	EXIST.	EXIST.	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"	106														
107	RENOVATED TOILET	EXIST.	EPX	EPX	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"	107														
108	EXISTING CLOSET	EXIST.	EXIST.	EXIST.	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"	108														
109	EXISTING CORRIDOR	EXIST.	CPT/ EXIST.	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT	7'-10"	109														
110	VESTIBULE	EXIST.	EPX	EPX	4"	PNT	PNT	PNT	PNT	PNT		ACT	9'-0"	110														
111	PUBLIC TOILET	EXIST.	EPX	EPX	4"	PNT	PNT	PNT	PNT	PNT		ACT	8'-0"	111														
112	PROPOSED OFFICE	EXIST.	CPT	VB	4"	PNT	PNT	PNT	PNT	PNT		ACT	9'-0"	112														
113	PROPOSED STORAGE	EXIST.	EPX	EPX	4"	PNT	PNT	PNT	PNT	PNT		OTA	VARIES	113														



Door Types
A6.01 N.T.S.

MICHAEL J. MCGOVERN, P.A.
 THE REGISTERED ARCHITECT
 License No. 022257-1

Revisions:
 Addendum #2
 01/15/21

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FINISH & DOOR SCHEDULE, DOOR TYPES
 Interior Renovations
 VILLAGE BUILDING DEPARTMENT (AKA OSWELER BUILDING)
 19 ADAMS STREET
 HIGHLAND MILLS NEW YORK 10930

Job No. 4.1523.01
 File No. 4152301A601

A6.01