

ADDENDUM NO. 2

The Drawings and Specifications, dated 02/09/2024, delta 2 for:

The Beechwood Apartments
330 Forest Avenue
Cincinnati, Ohio 45229
Solicitation Number: 2024-3004
FHA No. 046-35784

NOTICE TO BIDDERS:

- A. This Addendum shall be considered part of the Contract Documents for the above-mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.
- B. Bidders are hereby notified that they shall make any necessary adjustment in their estimates on account of this Addendum. It will be construed that each Bidder's Proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

ARCHITECTURAL

1. G.001 – COVER SHEET
 - o Drawing Index – Added new sheet A.702.
 - o Added deduct alternate for door opening 111.
 - o Revised Development Summary
2. A.001.c – OCCUPANCY SCHEDULES
 - o Updated Occupancy schedule ANSI type's
3. D.101 thru D.107 – DEMO PLANS
 - o Revised plans to indicate doors being demolished.
 - o Revised plan on first floor community area corridor to indicate wall not being demolished.
 - o Revised the amount of walls being demolished in Units 212, 213, 311,312,313,411,412,413,611,811,1011,1111,1211 and 1301 as they will be Type B units.
4. D.201 and D.203 – DEMO ELEVATIONS
 - o Revised elevations to indicate doors being demolished.

5. A.101 thru A.107 – FLOOR PLANS
 - First Floor Plan:
 - Revised community area corridor wall location.
 - Revised location of mop sink in boiler room.
 - Added keynote 22.40L Mop Sink.
 - Second Floor Plan:
 - Unit 212 and 213 revised to be Type B unit.
 - Third Floor Plan:
 - Unit 311, 312 and 313 revised to be Type B unit.
 - Unit 306 to be Sensory Impaired Unit.
 - Fourth Floor Plan:
 - Unit 411, 412 and 413 revised to be Type B unit.
 - Fifth Floor Plan:
 - No changes
 - Sixth Floor Plan:
 - Unit 611 revised to be Type B unit.
 - Seventh Floor Plan:
 - Unit 711 revised to be Type B unit. (1 BR-EXTENDED TYPE B)
 - Unit 705 to be Sensory Impaired Unit.
 - Eighth Floor Plan:
 - Unit 811 revised to be Type B.
 - Ninth Floor Plan:
 - No changes
 - Tenth Floor Plan:
 - Unit 1011 revised to be Type B.
 - Eleventh Floor Plan:
 - Unit 1111 revised to be Type B unit.
 - Unit 1108 to be Sensory Impaired Unit.
 - Twelfth Floor Plan:
 - Unit 1211 revised to be Type B unit.
 - Thirteenth Floor Plan:
 - Unit 1301 revised to be Type B unit.
6. A.203 – EXTERIOR ELEVATIONS
 - Added note to replace existing stationary louver above electrical room exterior door 111.
7. A.301 – ENLARGED PLANS
 - Revised first floor plan to indicate wall revisions at community area corridor.
8. A.351– ENLARGED UNIT PLAN – 0 & 1 BR TYPE B UNITS
 - A.351 updated Interior elevation H/A.351
9. A.352– ENLARGED UNIT PLANS – 2 BR TYPE B UNIT
 - Unit Plan updated to indicate shower drain at same location as previous tub drain location.
10. A.354 – ENLARGED UNIT PLANS – 1 BR-A.2
 - Updated Interior elevations. (Elevations Mirrored to match plans)
 - Updated Floor Plans (Plans Mirrored to reflect proposed Layout)

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11. A.355 – ENLARGED UNIT PLAN – 1 BR EXTENDED TYPE B UNIT
 - Added sheet A.355 – 1 BR extended type B unit. (Unit 711)
12. A.450 – INTERIOR DETAILS
 - Added Shower curb detail P/A.450
13. A.650 – EXTERIOR DETAILS
 - Revised storefront sections.
 - Added section at vestibule storefront entry doors.
14. A.701 – DOOR SCHEDULE & DETAILS
 - Added/revised door and frame types:
 - Added/revised door type D2 thru D7.
 - Added frame type F4* thru F8.
 - Added tempered glass locations to elevations.
 - Deleted hardware groups and door schedule marks.
 - Revised general note 6.
 - Deleted general note 12.
 - Revised door details:
 - Jamb detail A - Added glazing stop at borrowed lites.
 - Jamb detail B - Revised masonry anchor type.
 - Revised common area door schedule:
 - Revised door and frame types.
 - Revised door ratings, hardware groups and door remarks.
 - Revised head, jamb and sill detail references.
 - Changed all doors to 6'-8" high doors (except for door 111).
 - Revised unit door schedule:
 - Revised door and frame types.
 - Revised hardware groups and door remarks.
 - Window schedule:
 - Window W1 - Changed fire rating to 20 minutes.
15. A.702 – OPENING DETAILS
 - Added storefront opening details.
16. A.850 – CEILING DETAILS
 - Added electrical room door/louver section and details.

INTERIORS

1. I.001 – FINISH SCHEDULE & DETAILS
 - Added solid surface for shower surround to schedule.
2. I.350 – UNIT FLOOR FINISH PLANS
 - Added solid surface for shower surround to schedule.
3. I.351 – UNIT FLOOR FINISH PLANS
 - Added solid surface for shower surround at 1 BR-A expanded unit plan.
 - Added 1BR. B – EXTENDED UNIT FINISH PLAN and updated flooring finishes in 1BR.A EXPANDED UNIT FINISH PLAN

PLUMBING

1. P.101 – PLUMBING DEMO PLAN
 - Clarified the demolition scope to include the removal of the existing underground sanitary piping system to 5'-0" outside the building line.
2. P.200 – PLUMBING UNDERGROUND PLAN
 - Added mop basin, MB-1 and associated sanitary piping.
 - All existing underground sanitary piping shall be replaced "in-place".
 - Added note for AIR ADMITTANCE VALVE to address island type sinks for venting.
3. P.201 – PLUMBING PLANS
 - Added mop basin, MB-1 and associated cold and hot water, and vent piping.
 - Added note for AIR ADMITTANCE VALVE to address island type sinks for venting.
4. P.202 thru P.213 and P.301 thru P.303 – PLUMBING PLANS & ENLARGED PLANS
 - Adjusted plumbing fixtures and piping to coordinate with Architectural plan revisions.
 - Added note for AIR ADMITTANCE VALVE to address island type sinks for venting.
5. P.401 thru P.406 – DIAGRAMS AND ISOMETRICS
 - Diagrams have been updated in association with the floor plan revisions that have adjusted plumbing fixture locations.
6. P.501 – SCHEDULES AND DETAILS
 - Added Floor Drain, FD-2 to the FLOOR DRAINS SCHEDULE.

MECHANICAL

1. M.202 thru M.204, and M.206 thru M213 – HVAC AND PIPING PLANS
 - Adjusted mechanical equipment and piping to coordinate with Architectural plan revisions.

ELECTRICAL

1. E.102 thru E.113 – ELECTRICAL PLANS
 - Revised demolition and new work plans for units to match Architectural unit revisions.
2. E.203 – TYP. 1 BR UNIT
 - Added plan for typ. 1 BR-Extended unit.
3. E.204 – TYP. 1 BR ADA UNITS
 - Revised layout and scope for type A.1 unit to include removing panelboard in bedroom area and rewiring unit to new panelboard relocated in living room.
4. E.303 – LOAD CENTER RISER DIAGRAMS
 - Load center revised to be removed and replaced with new, in new location

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for units 211, 501, 511, 801, 911, 1201, 1311.

- Load center revised to be removed for units 211, 501, 511, 801, 911, 1201, 1311.
- Load center revised to remain in and be maintained for units 212, 213, 311, 312, 313, 411, 412, 413, 611, 711, 811, 1011, 1111, 1211, 1301.

SPECIFICATIONS

1. SECTION 05 – METAL LADDERS
 - O’Keefe’s is an approved manufacturer for Metal Ladders.
2. SECTION 07 6200 – SHEET METAL FLASHING AND TRIM
 - Metal Era is an approved manufacturer for items in this section.
3. SECTION 08 8000 – GLAZING
 - New section added.
4. SECTION 08 7100 – DOOR HARDWARE
 - Revised hardware specification and hardware sets.

END OF ADDENDUM NO. 2

SECTION 08 71 00 - DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for wood, aluminum, and hollow metal doors.
- B. Hardware for fire-rated doors.
- C. Electrically operated and controlled hardware.
- D. Lock cylinders for doors that hardware is specified in other sections.
- E. Thresholds.
- F. Weatherstripping, seals and door gaskets.
- G. Knox Box at main building entrance.

1.02 RELATED REQUIREMENTS

- A. Section 08 11 13 - Hollow Metal Doors and Frames.
- B. Section 08 14 16 - Flush Wood Doors.
- C. Section 08 12 00 - Aluminum Doors and Frames.
- D. Section 08 43 13 - Aluminum-Framed Storefronts: Hardware for same except cylinders; installation of cylinders.
- E. Section 10 14 24 - Plastic Signage.

1.03 REFERENCE STANDARDS

- A. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.
- B. DHI A115 Series - Specifications for Steel Doors and Frame Preparation for Hardware; Door and Hardware Institute; 2000.
- C. DHI A115W Series - Specifications for Wood Door and Frame Preparation for Hardware; Door and Hardware Institute; 2000.
- D. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; 2004.
- E. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors; 1993; also in WDHS-1/WDHS-5 Series, 1996.
- F. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2016.
- G. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware will be installed upon.

1.05 SUBMITTALS

- A. Refer to Section 01 40 00 - Quality Requirements for Submittal procedures.
- B. Shop Drawings:
 - 1. Indicate locations and mounting heights of each type of hardware, schedules, and catalog cuts.
- C. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

- B. Hardware Supplier Qualifications: Company specializing in supplying the type of products specified in this section with at least three years documented experience.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.08 COORDINATION

- A. Coordinate the work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware.
- B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

1.09 WARRANTY

- A. Provide subcontractor warranty for a period of one year. The warranty period is to begin upon Substantial Completion of the Contract. Warranty covers defects in materials and workmanship. Damage due to ordinary use, vandalism, improper or insufficient maintenance, misuse, or neglect do not constitute defective material or workmanship.
- B. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- C. Provide ten year warranty for locks, exits, and door closers.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Only door levers to be used throughout this project. Knobs are not permitted.
- B. Hinges:
 - 1. Ives.
 - 2. Hager Companies: www.hagerco.com.
 - 3. Stanley Hardware: www.stanleyworks.com.
- C. Lock and Latch Sets:
 - 1. Common Areas: Schlage ALX Series.
 - 2. Unit Entry Doors: Schlage Smart Control FE210F.
 - 3. Common Area Wireless Electronic Locks: Schlage NDEB Series.
 - 4. Unit Interior: Schlage F Series.
- D. Push/Pulls:
 - 1. Hiawatha, Inc: www.hiawathainc.com.
 - 2. Ives.
 - 3. Rockwood.
- E. Flush Bolts:
 - 1. Hager.
 - 2. Rockwood.
 - 3. Ives.
- F. Exit Devices:
 - 1. Falcon
 - 2. Corbin Russwin
 - 3. Sargent
 - 4. Von Duprin
- G. Closers:
 - 1. Falcon
 - 2. Sargent
 - 3. Norton

4. LCN: www.lcnclosers.com.
 5. Corbin Russwin
- J. Spring Hinges:
1. Stanley.
 2. Ives
 3. Hager
- K. Automatic Door Bottoms:
1. Reese Enterprises.
 2. Hager.
 3. Pemko.
- L. Coordinators:
1. Glynn-Johnson.
 2. Ives.
 3. Rockwood.
- M. Wall and Floor Stops/holders:
1. Ives
 2. Hager
 3. Rockwood
- M. Gasketing, Thresholds and Sweeps:
1. Assa Abloy McKinney: www.assaabloydss.com.
 2. National Guard Products, Inc: www.ngpinc.com.
 3. Pemko Manufacturing Co: www.pemko.com.
 4. Zero International, Inc: www.zerointernational.com.
 5. Hager.
 6. Reese.
- N. Stops:
1. Hager.
 2. Ives.
 3. Rockwood.
- O. Protection Plates:
1. Hager Companies: www.hagerco.com.
 2. Hiawatha, Inc: www.hiawathainc.com.
 3. Ives.
 4. Rockwood.
- P. Viewers:
1. Ives.
- S. Latch Protectors:
1. Ives.
- T. Threshold Aluminum:
1. National Guard Products
- U. Door Smoke Seal:
1. National Guard Products.

2.02 GENERAL REQUIREMENTS

- A. Provide products that comply with the following:
1. Applicable provisions of federal, state, and local codes.
 2. ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and Facilities.

3. Fire-Rated Doors: NFPA 80.
 4. Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
 5. Hardware for Smoke and Draft Control Doors (Indicated as "S" on Drawings): Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.
 6. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified and indicated.
- B. Finishes: All hardware to have Brushed Chrome finish.

2.03 HARDWARE GROUPS

- A. Common Areas: Comply with code smoke gasketing requirements. Furnish Ball Bearing Hinges at all HM doors.
- B. Refer to sheet A.701 for additional information.

2.04 LOCKS AND LATCHES

- A. Locks: Provide a lock for every door, unless specifically indicated as not requiring locking.
 1. If no hardware set is indicated for a swinging door provide an office lockset.
 2. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.
 3. Lock Cylinders: Provide key access on outside of all locks unless specifically stated to have no locking or no outside trim.
- B. Lock Cylinders: Manufacturer's standard tumbler type, six-pin standard core.
 1. Provide cams and/or tailpieces as required for locking devices required. C. Keying: Per key schedule.
- C. Keying: Per key schedule.
- D. Latches: Provide a latch for every door that is not required to lock, unless specifically indicated "push/pull" or "not required to latch".

2.05 KEYING

- A. Door Locks: Coordinate keying system with Owners requirements. Include construction keying.
- B. Supply keys in the following quantities:
 1. 5 master keys. Deliver directly to Owner of each type of master.
 2. 6 construction keys.
 3. 2 keys for each cylinder.

2.06 KEY CABINET

- A. Provide MMF key cabinet with capacity to hold all the keys for the project with 50% excess capacity.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
- D. Mounting heights for hardware from finished floor to center line of hardware item. As listed on

Schedule, unless noted

1. For steel doors and frames: Comply with DHI (LOCS) "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames".
2. For Wood Doors: Comply with DHI WDHS.3 "Recommended Locations for Architectural Hardware for Flush Wood Doors".

E. Prepare doors per Schlage lock cut sheets.

3.03 ADJUSTING

- A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Adjust hardware for smooth operation.

3.04 SCHEDULE

Note: This hardware schedule is general - some door types listed may be used in project.

A. GENERAL REQUIREMENTS - ALL RATED DOORS:

1. Gasketing: Smoke gaskets or intumescent gaskets as required to achieve rating.
2. Listed closer and latch.
3. All hardware as required to achieve required fire label.

B. INTERIOR UNIT DOORS:

1. Hinges (1 1/2 pair): 3 1/2 x 3 1/2
2. Latch: Schlage F series.
 - a. Privacy latch on bedroom, bathrooms, dens and studies.
 - b. Passage latch on all other doors.

C. UNIT ENTRY DOOR (CORRIDOR):

1. Hinges (1-BB, 2-Spring): 4 1/2 x 4 1/2
2. Locks: Schlage Control Smart Interconnected Lock, Greenwich Series.
3. Automatic Door Bottom: NGP 220NA-36.
4. Gasketing: Smoke Gasket.
5. Viewer @ 58" a.f.f.
6. Additional Viewer @ 43" a.f.f. at Type A Accessible Units.

F. BUILDING STORAGE/HVAC ROOM DOOR:

1. Hinges (3 ea): 4 1/2 x 4 1/2
2. Latch: Schlage ALX series storeroom latch or Schlage NDE Series - Per Door Schedule.
3. Closer: Falcon 71A/81A series unless noted otherwise..

K. ALL OTHER COMMON DOORS:

1. Hinges: 4 1/2 x 4 1/2 BB
2. Latch: Schlage ALX series or Schlage NDEB Series - Per Door Schedule.
3. Closer: Falcon 71A/81A series. (See Door Schedule for doors requiring closers.)

Set #01

Openings: 113A

3 ea	Hinges	5BB1 4 ½ x 4 ½ NRP	622	Ives
1 ea	Power Transfer	EPT-10	689	Falcon
1 ea	Exit Device	25C-510L-DT-QUA	622	Falcon
1 ea	Mortise Cylinder	26-072	622	Schlage
1 ea	90 Deg Offset Pull	8190EXHD 12" O	622	GLY
1 ea	OH Stop	100S	622	GLY
1 ea	Closer	SC71A DS x SC70A-18PA	622	Falcon
1 ea	Automatic Operator	9542	628	LCN
1 ea	HD Hand Wave Actuator	8310-810D	630	LCN
1 ea	Power Supply	PS902-2RS	--	Falcon
1 ea	Threshold	425HD MS/LA	719	NGP
1 ea	Controller Kit	CTE-MTB15	Black	Schlage
1 ea	Door Position Switches	7764	630	Schlage

*Perimeter Gasketing by Aluminum Door Manufacturer.

Operation: Doors are normally closed and unlocked. Free egress at all times.

Set #02

Openings: 113B

3 ea	Hinges	5BB1 4 ½ x 4 ½ NRP	630	Ives
1 ea	Power Transfer	EPT-10	689	Falcon
1 ea	Exit Device w/Latch Retraction	MEL25R-510L-NL-QUA	626	Falcon
1 ea	Mortise Cylinder	26-072	626	Schlage
1 ea	Closer	SC71A DS x SC70A-18PA	689	Falcon
1 ea	Automatic Operator	9542	628	LCN
1 ea	HD Hand Wave Actuator	8310-810D	630	LCN
1 ea	HD Hand Wave Actuator Mullion	8310-810S	630	LCN
1 ea	Threshold	425HD MS/LA	719	NGP
1 set	Perimeter Gasketing	5050C	Charc	NGP
1 ea	Sweep	200NA	628	NGP
1 ea	Power Supply	PS902-2RS	--	Falcon
1 ea	Controller Kit	CTE-MTB15	Black	Schlage
1 ea	Door Position Switch	7764	630	Schlage

*Perimeter Gasketing by Aluminum Door Manufacturer.

Operation: Door is normally closed and locked. Valid credential presentation retracts latch and energizes actuator for automatic or manual entry. Free egress at all times.

Set #03

Openings: 101, 102, 105A, 107, 120, 124A, 124B

3 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Wireless Lock	NDEBPD-SPA	619	Schlage
1 ea	Closer	SC71A	689	Falcon
1 ea	Kickplate	8400 8" x 2" less door width	US15	Ives
1 ea	Wall Stop	WS406/407CCV	619	Ives
1 set	Smoke Seals	5050C	Charc	NGP

Operation: Door is normally closed and locked. Valid credential presentation unlocks trim for entry. Free egress at all times.

Set #04

Openings: 100B, 201, 302, 401, 502, 601, 702, 801, 902, 1001, 1102, 1201, 1302

3 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Passage Set	ALX10S SPA	619	Schlage
1 ea	Closer	SC81A	689	Falcon
1 ea	Kickplate	8400 8" x 2" less door width	US15	Ives
1 ea	Wall Stop	WS406/407CVX	619	Ives
1 set	Smoke Seals	5050C	Charc	NGP

Set #05

Openings: 100C

6 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Passage Set	ALX10S SPA	619	Schlage
1 ea	Coordinator w/ Filler	COR52 FL20	628	Ives
1 set	Automatic Flush Bolts	FB41P	630	Ives
1 ea	Dust Proof Strike	DP1	619	Ives
1 ea	Closer	SC81A	689	Falcon
4 ea	Armor Plate	8400 34" x 2" less door width	US15	Ives
2 ea	Wall Stop	WS406/407CVX	619	Ives
2 set	Smoke Seals	5050C	Charc	NGP

Set #06

Openings: 104E, 104G, 107A, 114, 115, 118A, 118B, 124D, 301, 501, 701, 901, 1101, 1301

3 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Storeroom Lock	ALX80P SPA	619	Schlage
1 ea	Closer	SC81A RW/PA	689	Falcon
1 ea	Wall Stop	WS406/407CVX	619	Ives
1 ea	Overhead Stop	454S	689	GJ
1 set	Smoke Seals	5050C	Charc	NGP

- Provide overhead stop where sidewall does not exist for wall stop.

Set #07

Openings: 104F, 124C, 129, 203, 403, 603, 803, 1003, 1203

6 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Storeroom Lock	ALX80P SPA	619	Schlage
1 ea	Overhead Stop	454S	689	GJ
1 set	Automatic Flush Bolts	FB41P	630	Ives
1 ea	Coordinator	COR X FL (MB As Req'd)	628	Ives
1 ea	Dust Proof Strike	DP1	619	Ives
1 set	Smoke Seals	5050C	Charc	NGP

Set #07.1

Openings: 303, 503, 703, 903, 1103, 1303

6 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Passage Set	ALX10S SPA	619	Schlage
1 ea	Overhead Stop	454S	689	GJ
1 set	Automatic Flush Bolts	FB41P	630	Ives
1 ea	Coordinator	COR X FL (MB As Req'd)	628	Ives
1 ea	Dust Proof Strike	DP1	619	Ives
1 set	Smoke Seals	5050C	Charc	NGP

Set #08

Openings: 1400

3 ea	Hinges	5BB1 4 ½ x 4 ½	630	Ives
1 ea	Storeroom Lock	ALX80P SPA	619	Schlage
1 ea	Overhead Stop	454S	689	GJ
1 ea	Threshold	425HD MS/LA	719	NGP
1 set	Perimeter Gasketing	5050C	Charc	NGP
1 ea	Sweep	331	Black	NGP
1 ea	Rain Drip	142AA	AA	ZER

Set #09

Openings: 104A

6 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Power Transfer	EPT-10	689	Falcon
1 ea	Exit Device	25C-510L-DT-QUA	622	Falcon
1 ea	Exit Device w/Latch Retraction	MEL25C-510L-NL-QUA	622	Falcon
1 ea	Mortise Cylinder	26-072	622	Schlage
1 ea	Wireless Lock	NDEBPD-SPA	619	Schlage
1 ea	Coordinator w/Filler	COR52 FL20	628	Ives
1 set	Automatic Flush Bolts	FB41P	630	Ives
1 ea	Dust Proof Strike	DP1	619	Ives
2 ea	Closers	SC81A	689	Falcon
2 ea	Overhead Stops	454S	689	GJ
1 set	Smoke Seals	5050C	Charc	NGP
1 set	Meeting Stile Smoke Seal	115NA	628	NGP

Operation: Doors are normally closed and locked. Valid credential presentation unlocks trim for entry. Free egress at all times.

Set #10

Openings: 100A, 100D, 104C, 104D

3 ea	Hinges	5BB1 4 ½ x 4 ½ NRP	630	Ives
1 ea	Power Transfer	EPT-10	689	Falcon
1 ea	Exit Device w/Latch Retraction	MEL25R-510L-NL-QUA	626	Falcon
1 ea	Mortise Cylinder	26-072	626	Schlage
1 ea	Closer	SC71A DS x SC70A-18PA	689	Falcon
1 ea	Threshold	425HD MS/LA	719	NGP
1 set	Perimeter Gasketing	5050C	Charc	NGP
1 ea	Sweep	200NA	628	NGP
1 ea	Power Supply	PS902-2RS	--	Falcon
1 ea	Controller Kit	CTE-MTB15	Black	Schlage
1 ea	Door Position Switch	7764	630	Schlage

Operation: Door is normally closed and locked. Valid credential presentation retracts latch for entry. Free egress at all times.

Set #11

Openings: 105B, 106, 108, 109, 125

3 ea	Hinges	5BB1 4 ½ x 4 ½	622	Ives
1 ea	Office Lock	ALX50P SPA	622	Schlage
1 ea	Wall Stop	WS406/407CVX	622	Ives

Set #12

Openings: 122

3 ea	Hinges	5BB1 4 ½ x 4 ½	622	Ives
1 ea	Passage Set	ALX10S SPA	619	Schlage
1 ea	Overhead Stop	454S	689	GJ

Set #13

Openings: 111

2 ea	Cont. Hinges	224XY	628	Ives
1 ea	Manual Flush Bolt	FB458	626	Ives
1 ea	Storeroom Lock	ND80JD SPA	626	Schlage
1 ea.	FCIS Core	23-030	626	Schlage
1 ea	Lock Guard	LG1	630	Ives
1 ea	Coordinator	COR x FL x MBF As Req'd	628	Ives
2 ea	Overhead Stop & Holder	81H	630	GJ
1 ea	Rain Drip	142AA	AA	ZER
1 set	Perimeter Gasketing	429AA-S	AA	ZER
1 ea	Mullion Seal	8780NBK PSA (Mount to Z Astragal)	BK	ZER
1 ea	Astragal	Z Type Astragal by HM Door Supplier		B/O
1 ea	Threshold	65A-233	A	ZER

Set #14

Openings: NS-1, SS-1

3 ea	Hinges	5BB1 4 ½ x 4 ½ NRP	630	Ives
1 ea	Panic Device	LD-25-R-EO	626	Falcon
1 ea	Closer	SC81A DS	689	Falcon
1 ea	Threshold	425HD MS/LA	719	NGP
1 set	Perimeter Gasketing	5050C	Charc	NGP
1 ea	Sweep	200NA	628	NGP
1 ea	Mortice Cylinder	26-072	622	Schlage
1 ea	Rain Drip	142AA	AA	ZER
1 ea	Door Contact	By Access Control Provider		
1 ea	Prop Open Alarm	By Access Control Provider		

Set #15

Openings: NS-2, NS-3, NS-4, NS-5, NS-6, NS-7, NS-8, NS-9, NS-10, NS-11, NS-12, NS-13, SS-2, SS-3, SS-4, SS-5, SS-6, SS-7, SS-8, SS-9, SS-10, SS-11, SS-12, SS-13

3 ea	Hinges	5BB1 4 ½ x 4 ½	646	Ives
1 ea	Passage Set	ALX10S SPA	619	Schlage
1 ea	Closer	SC81A	689	Falcon
1 ea	Kickplate	8400 8" x 2" less door width	US15	Ives
1 ea	Wall Stop	WS406/407CVX	619	Ives
1 set	Smoke Seals	5050C	Charc	NGP

Unit Sets**Set #U01**

Openings: U1

1 ea	Hinge	5BB1 4 ½ x 4 ½	646	Ives
2 ea	Spring Hinges	3SP1 4 ½ x 4 ½	646	Ives
1 ea	Smart Interconnected Lock	FE410 GRW JAZ	619	Schlage
1 ea	Flexible Door Stop	060/061	646	Ives
1 ea	One-way Wide Angle Viewer	U698	619	Ives
1 set	Smoke Seals	5050C	Charc	NGP
1 ea	Automatic Door Bottom	220NA	628	NGP

*Provide two (2) wide angle viewers at HC Units.

Set #U02

Openings: U2, U2a

3 ea	Hinges	5PB1 3 ½ x 3 ½	646	Ives
1 ea	Privacy Set	F40 JAZ GSN	619	Schlage
1 ea	Flexible Door Stop	060/061	646	Ives

Set #U03

Openings: U3, U3a, U4

3 ea	Hinges	5PB1 3 ½ x 3 ½	646	Ives
1 ea	Passage Set	F10 JAZ GSN	619	Schlage
1 ea	Flexible Door Stop	060/061	646	Ives

Misc. Items

1 ea	Enrollment Reader	MT20W	Black	Schlage
350 ea	Smart Credentials (FOBS)	9651	Black	Schlage
1 ea	Training	4 Hours		

END OF SECTION

SECTION 08 8000 GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Insulating glass units.
- B. Glazing units.
- C. Glazing compounds and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 08 1113 - Hollow Metal Doors and Frames: Glazed lites in doors and borrowed lites.
- B. Section 08 1433 - Stile and Rail Wood Doors: Glazed lites in doors.
- C. Section 08 4126 - All-Glass Entrances and Storefronts: Glazing furnished as part of entrance assembly.
- D. Section 08 4229 - Automatic Entrances: Glazing furnished as part of door assembly.
- E. Section 08 4313 - Aluminum-Framed Storefronts: Glazing furnished as part of storefront assembly.
- F. Section 08 5113 - Aluminum Windows: Glazing furnished by window manufacturer.
- G. Section 08 5123 - Steel Windows: Glazing furnished by window manufacturer.
- H. Section 08 5200 - Wood Windows: Glazing furnished by window manufacturer.
- I. Section 08 5313 - Vinyl Windows: Glazing furnished by window manufacturer.

1.03 REFERENCE STANDARDS

- A. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers 2005 (Reapproved 2015).
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants 2016.
- C. GANA (SM) - GANA Sealant Manual 2008.
- D. ICC (IBC) - International Building Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

1.05 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data on Insulating Glass Unit, Glazing Unit, Plastic Sheet Glazing Unit, and Plastic Film Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with for glazing installation methods. Maintain one copy on site.

- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1.07 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.08 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design glass, including comprehensive engineering analysis according to ASTM E 1300 and ICC's 2009 International Building Code by a qualified professional engineer, using the following design criteria:
 - 1. Design Wind Pressures: As indicated on structural Drawings.

1.09 DESIGN SNOW LOADS: [AS INDICATED ON DRAWINGS].

- A. If referencing ASTM E 1300, retain applicable subparagraphs from first three below, which are based on requirements in the 2006 IBC.
 - 1. Vertical Glazing: For glass surfaces sloped 15 degrees or less from vertical, design glass to resist design wind pressure based on glass type factors for short-duration load.
 - 2. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites.
- B. Safety Glazing: Provide safety glazing in the following applications.
 - 1. Glazing in swinging doors except jalousies.
 - 2. Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bifold closet door assemblies.
 - 3. Glazing in storm doors.
 - 4. Glazing in unframed swinging doors.
 - 5. Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any portion of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above a standing surface.
 - 6. Glazing in an individual fixed or operable panel adjacent to a door where the nearest exposed edge of the glazing is within a 24-inch (610 mm) arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above the walking surface.
 - 7. Glazing in an individual fixed or operable panel, other than in those locations described in preceding Items 5 and 6, which meets all of the following conditions:
 - a. Exposed area of an individual pane greater than 9 square feet (0.84 m²);
 - b. Exposed bottom edge less than 18 inches (457 mm) above the floor;
 - c. Exposed top edge greater than 36 inches (914 mm) above the floor; and
 - d. One or more walking surface(s) within 36 inches (914 mm) horizontally of the plane of the glazing.
 - 8. Glazing in guards and railings, including structural baluster panels and nonstructural in-fill panels, regardless of area or height above a walking surface.
 - 9. Glazing adjacent to stairways, landings and ramps within 36 inches (914 mm) horizontally of a walking surface; when the exposed surface of the glass is less than 60 inches (1524 mm) above the plane of the adjacent walking surface.
 - 10. Glazing adjacent to stairways within 60 inches (1524 mm) horizontally of the bottom tread of a stairway in any direction when the exposed surface of the glass is less than 60 inches (1524 mm) above the nose of the tread.

1.10 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

- B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.
- C. Laminated Glass: Provide a five (5) year manufacturer warranty to include coverage for delamination, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Glass Fabricators:
 1. JE Berkowitz, LP: www.jeberkowitz.com.
 2. Trulite Glass & Aluminum Solutions, LLC: www.trulite.com/#sle.
 3. Viracon, Inc: www.viracon.com/#sle.
- B. Float Glass Manufacturers:
 1. AGC Glass North America, Inc; [____]: www.agcglass.com/#sle.
 2. Cardinal Glass Industries; [____]: www.cardinalcorp.com/#sle.
 3. Guardian Glass, LLC; [____]: www.guardianglass.com/#sle.
 4. Pilkington North America Inc; [____]: www.pilkington.com/na/#sle.
 5. Vitro Architectural Glass (formerly PPG Glass); [____]: www.vitroglazings.com/#sle.
 6. Substitutions: Refer to Section 01 6000 - Product Requirements.
- C. Fire-Resistance-Rated Glass: Provide products as required to achieve indicated fire-rating period.
 1. SAFTIFIRST, a division of O'Keeffe's Inc; SuperLite II-XL: www.safti.com/#sle.
 2. Technical Glass Products; Pilkington Pyrostop: www.fireglass.com/#sle.
 3. Vetrotech North America; Contraflam: www.vetrotechusa.com/#sle.
 4. Substitutions: Refer to Section 01 6000 - Product Requirements.
- D. Fire-Protection-Rated Glass: Provide products as required to achieve indicated fire-rating period.
 1. SAFTIFIRST, a division of O'Keeffe's Inc; SuperLite I-XL: www.safti.com/#sle.
 2. SCHOTT North America Inc; PYRAN Platinum 20: www.us.schott.com/#sle.
 3. Technical Glass Products; [____]: www.fireglass.com/#sle.
 4. Vetrotech North America; Contraflam 45: www.vetrotechusa.com/#sle.
 5. Substitutions: Refer to Section 01 6000 - Product Requirements.

2.02 GLASS MATERIALS

2.03 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
 1. Width: As required for application.
 2. Thickness: As required for application.
 3. Spacer Rod Diameter: As required for application.
 4. Manufacturers:
 - a. Pecora Corporation: www.pecora.com.
 - b. Tremco Global Sealants: www.tremcosealants.com.

- c. Substitutions: Refer to Section 01 6000 - Product Requirements.
- D. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
- E. Glazing Clips: Manufacturer's standard type.
- F. Smoke Removal Window/Glazing Unit Markings: Adhesive backed markings affixed to manually operable or fixed windows of high-rise buildings to identify units intended for post-fire smoke removal in compliance with ICC (IBC) and local building officials.

2.04 SOURCE QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for additional requirements.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

3.02 PREPARATION

- A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

- A. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

3.04 FIELD QUALITY CONTROL

- A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
- B. Monitor and report installation procedures and unacceptable conditions.

3.05 CLEANING

- A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- B. Remove non-permanent labels immediately after glazing installation is complete.
- C. Clean glass and adjacent surfaces after sealants are fully cured.
- D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.06 PROTECTION

- A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
- B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION