

NOTE: This Addendum forms a part of the Contract Documents and modifies the original Procurement Documents dated November 13, 2020, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

ATTACHMENTS:

Spec Section 081743 Composite Fiberglass Doors
Plan Holders List

CHANGES TO PROJECT MANUAL

1. Section 087111 – Door Hardware: Para 3.1B.2 DELETE “Section 281500- Access Control Devices.”
2. ADD spec section 081743 Composite Fiberglass Doors, attached.
3. Section 263600 – Transfer Switches DELETE Article 3.2K in it’s entirety and REPLACE with the following:
 - K. Automatic Open-Transition Transfer Switches: Include one of the two transfer switch control features and identify during submittal phase.
 1. In-Phase Monitor: Factory-wired, internal relay controls transfer so it occurs only when the two sources are synchronized in phase. Relay compares phase relationship and frequency difference between normal and emergency sources and initiates transfer when both sources are within 5 electrical degrees, and only if transfer can be completed within 60 electrical degrees. Transfer is initiated only if both sources are within 2 Hz of nominal frequency and 70 percent or more of nominal voltage. Transfer will occur within a specified delay time if the normal position voltage is not present.
 2. Programmed Neutral Switch Position/Open Transition/Delayed Transition: Switch operator has a programmed neutral position arranged to provide a midpoint between the two working switch positions, with an intentional, time-controlled pause at midpoint (neutral position) during transfer. Pause is adjustable from a maximum of 0.5 seconds to 30 seconds minimum and factory set for 0.5 second, unless otherwise indicated. Time delay occurs for both transfer directions. Pause is disabled unless both sources are present.

CHANGES TO DRAWINGS

1. Drawing M101 – HVAC Floor Plans – to Keynote 13 ADD, “The exhaust duct can be made of any material as allowed by the NYS mechanical code section 505.3 This is not commercial grease duct per code.”

CLARIFICATIONS

1. Electrical Contractor will only be responsible for installing boxes and conduit with pull strings as indicated on Detail 2/E-107 to the Access Control device locations, with conduit routed to the Access Control cabinet in Room 19. Owner will be responsible for installing the devices, cabling, terminations and testing of all cabling and system.
2. Electrical Contractor will only be responsible for installing boxes and conduit to above ceiling with a pull string at camera locations, as indicated on E-001. Owner will be responsible for installing the equipment, cabling, terminations, jacks, face plates and testing of all cabling and system.

3. Electrical Contractor will only be responsible for installing boxes and conduit to above ceiling with a pull string at data and CATV locations.

END OF ADDENDUM

SECTION 081743

COMPOSITE FIBERGLASS DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. AF-220 Sandstone Texture Composite Fiberglass Door with Expanded Polystyrene Core.

1.02 RELATED SECTIONS

- A. Section 08 71 00 – Finish Hardware.
- B. Section 08 81 00 – Glass and Glazing.
- C. Section 08 11 16 – Aluminum Doors and Frames.

1.03 REFERENCES

- A. [AAMA 1304](#) – Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems.
- B. [ASTM-D256](#) – Standard Test Methods for Determining the Pendulum Impact Resistance of Plastics.
- C. [ASTM-D570](#) – Standard Test Method for Water Absorption of Plastics.
- D. [ASTM-D638](#) – Standard Test Method for Tensile Properties of Plastics.
- E. [ASTM-D695](#) – Standard Test Method for Compression Properties of Rigid Plastics.
- F. [ASTM-D696](#) – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30 °C and 30 °C with a Vitreous Silica Dilatometer.
- G. [ASTM-D790](#) – Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- H. [ASTM-D792](#) – Standard Test Method for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
- I. [ASTM-D1761](#) – Standard Test Methods for Mechanical Fasteners in Wood.
- J. [ASTM-D2344](#) – Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates.
- K. [ASTM-D2583](#) – Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impresser.
- L. [ASTM-D2794](#) – Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).

- M. [ASTM-D3029](#) – Test Methods for Impact Resistance of Flat Rigid Plastic Specimens by Means of a Tup (Falling Weight) (Withdrawn 1995) (Replaced by ASTM-D5420).
- N. [ASTM-D5116](#) – Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/ Products.
- O. [ASTM-D5420](#) – Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact).
- P. [ASTM-D6670](#) – Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/ Products.
- Q. [ASTM-E84](#) – Standard Test Method for Surface Burning Characteristics of Building Materials.
- R. [ASTM-E90](#) – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
- S. [NFRC 100](#) – Procedure for Determining Fenestration Products U-Factors.
- T. [NFRC 400](#) – Procedure for Determining Fenestration Products Air Leakage.

1.04 SUBMITTALS

- A. Must comply with Section 01 33 00 – Submittal Procedures.
- B. Action Submittals/ Informational Submittals.
 - 1. Product Data.
 - a. Submit manufacturer’s product data sheets, catalog pages illustrating the products, description of materials, components, fabrication, finishes, installation instructions, and applicable test reports.
 - 2. Shop Drawings.
 - a. Submit manufacturer’s shop drawings, including elevations, sections, and details indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, hardware schedule, and finish.
 - b. Samples.
 - i. Submit manufacturer’s door sample composed of door face sheet, core, framing and finish.
 - ii. Submit manufacturer’s sample of standard colors for door face and frame.
 - c. Testing and Evaluation Reports.
 - i. Submit testing reports and evaluations provided by manufacturer conducted by and accredited independent testing agency certifying doors and frames comply with specified performance requirements listed in Section 2.04.
 - d. Manufacturer Reports.
 - i. Manufacturer’s Project References.
 - ii. Submit list of successfully completed projects including project name, location, name of architect, type, and quantity of doors manufactured.
 - 3. Closeout Submittals.
 - a. Operation and Maintenance Manual.

- i. Submit manufacturer's maintenance and cleaning instructions for doors and frames, including maintenance and operating instructions for hardware.
- b. Warranty Documentation.
 - i. Submit manufacturer's standard warranty.

1.05 QUALITY ASSURANCE

- A. Manufacturer's Qualifications.
 1. Continuously engaged in manufacturing of doors of similar type to that specified, with a minimum of 25 years concurrent successful experience.
 2. Door and frame components must be fabricated by same manufacturer.
 3. Evidence of a documented complaint resolution quality management system.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Delivery.
 1. Deliver materials to site in manufacturer's original, unopened, containers and packaging.
 2. Labels clearly identifying opening, door mark, and manufacturer.
- B. Storage.
 1. Store materials in a clean, dry area, indoors in accordance with manufacturer's instructions.
- C. Handling.
 1. Protect materials and finish from damage during handling and installation.

1.07 WARRANTY

- A. Warrant doors, frames, and factory installed hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.
- B. Standard Period.
 1. Ten years starting on date of shipment.
- C. Limited lifetime
 1. Covers failure of corner joinery, core deterioration, and delamination or bubbling of door skin and corrosion of all-fiberglass products while the door is in its specified application in its original installation.
- D. Finish
 1. SpecLite3[®] face sheets 10 years from the date of shipment.
 2. Painted AF-220, AF-150 frames, AF-250 frames: 3 years.
 3. Thresholds do not have a finish warranty.

PART 2 PRODUCTS

2.01 COMPOSITE FIBERGLASS DOOR

- A. Manufacturer.
 1. Special-Lite, Inc.
 - a. PO Box 6, Decatur, Michigan 49045.

- b. Toll Free (800) 821-6531, Phone (269) 423-7068, Fax (800) 423-7610.
- c. Web Site www.special-lite.com.
- d. E-Mail info@special-lite.com.
- e. OR approved equal

2.02 DESCRIPTION

- A. Model.
 - 1. [AF-220 Sandstone Texture Composite Fiberglass Door.](#)
- B. Construction.
 - 1. Door Thickness.
 - a. 1-3/4".
 - 2. Stiles & Rails.
 - a. Pultruded fiberglass with integral channels for securing corner reinforcing clip.
 - 3. Corners.
 - a. Mitered.
 - b. Secured with pultruded fiberglass corner clip chemically welded to stiles and rails.
 - c. Mechanical fasteners to secure corner joints not acceptable.
 - 4. Core.
 - a. Expanded Polystyrene.
 - 5. 2.0 pcf
 - 6. Mildew and rot resistant.
 - 7. Sound and vibration dampening.
 - 8. Face Sheet.
 - a. Exterior
 - 9. 0.120" thick, sandstone texture, through color with integral surfaseal film FRP sheet.
 - 10. Class C standard.
 - a. Interior
 - 11. 0.120" thick, sandstone texture, through color with integral surfaseal film FRP sheet.
 - 12. Class C standard optional Class A available consult manufacturer.
 - a. Attachment of face sheet.
 - 13. Face sheets to be flame treated to promote durable, long lasting bond.
 - 14. Face sheets adhered to stiles, rails, and core using hot melt adhesive evenly coated across all surfaces to produce strong bond and prevent moisture absorption.
 - 15. Cutouts.
 - a. Manufacture doors with cutouts for required vision lites, louvers, and panels.
 - 16. Hardware.
 - a. Pre-machine doors in accordance with templates from specified hardware manufacturers.
 - b. Surface mounted closures will be reinforced for but not prepped or installed at factory.
 - 17. Reinforcements.
 - a. Solid high-density polyurethane shapes chemically welded to stiles, rails and/ or core.
 - b. No metallic reinforcements will be allowed.

2.03 PERFORMANCE

- A. Face Sheet.
1. Standard Interior and Exterior Class C 0.120" thick, Sandstone texture, through color FRP sheet.
 - a. Flexural Strength, ASTM-D790: 27×10^3 psi.
 - b. Flexural Modulus, ASTM-D790: 0.7×10^6 psi.
 - c. Tensile Strength, ASTM-D638: 18×10^3 psi.
 - d. Tensile Modulus, ASTM-D638: 1.0×10^6 psi.
 - e. Barcol Hardness, ASTM-D2583: 40.
 - f. Izod Impact, ASTM-D256: 7.0 ft-lb/in.
 - g. Gardner Impact Strength, ASTM-D5420: 30 in-lb.
 - h. Water Absorption, ASTM-D570: 0.16%/24hrs at 77°F.
 - i. Surface Burning, ASTM-E84: Flame Spread ≤ 200 , Smoke Developed ≤ 450 .
 - j. Chemical Resistance.
 2. Excellent Rating.
 - a. Acetic Acid, Concentrated.
 - b. Acetic Acid, 5%.
 - c. Bleach Solution.
 - d. Detergent Solution.
 - e. Distilled Water.
 - f. Ethyl Acetate.
 - g. Formaldehyde.
 - h. Heptane.
 - i. Hydrochloric Acid, 10%.
 - j. Hydrogen Peroxide, 3%.
 - k. Isooctane.
 3. Lactic Acid, 10%.
 - a. USDA/FSIS Requirements.
 4. FRP face sheet with surfaseal is a finished outer surface material that is rigid; durable; non-toxic; non-corrosive; moisture resistant; a light, solid color such as white; easily inspected; smooth or an easily cleaned texture.
 5. FRP face sheet with surfaseal does not contain any known carcinogen, mutagen, or teratogen classified as hazardous substances; heavy metals or toxic substances; antimicrobials; pesticides or substances with pesticidal characteristics.
- B. Stiles & Rails.
1. Fastener Withdrawal, ASTM-D1761: 894 lbs.

2.04 MATERIALS

- A. Fiberglass.
1. Face Sheet.
 - a. See 2.04.A.
 2. Stiles & Rails.
 - a. See 2.04.B.
 3. Framing
 - a. See 2.04.C.
- B. Fasteners.
1. All exposed fasteners will have a finish to match material being fastened.
 2. 410 stainless steel or other non-corrosive metal.
 3. Must be compatible with items being fastened.

2.05 FABRICATION

- A. Factory Assembly.
 - 1. Door and frame components from the same manufacturer.
 - 2. Required size for door and frame units, shall be as indicated on the drawings.
 - 3. Complete cutting, fitting, forming, drilling, and grinding of metal before assembly.
 - 4. All cut edges to be free of burs.
 - 5. Electrical arc welding of doors or frames is not acceptable.
 - 6. Maintain continuity of line and accurate relation of planes and angles.
 - 7. Secure attachments and support at mechanical joints with hairline fit at contact surfaces.
- B. Shop Fabrication
 - 1. All shop fabrication to be completed in accordance with manufactures process work instructions.
 - 2. Quality control to be performed before leaving each department.

2.06 FINISHES

- A. Door.
 - 1. FRP Face Sheets
 - a. Through color.
 - 2. Color.
 - a. Choose an item.
- B. Aluminum Vision Lites and Louvers.
 - 1. Aluminum.
 - a. Mill.
 - 2. AA-M10C22A21-Flash.
 - a. Anodizing.
 - b. Class 1 Anodizing, minimum 0.7 mils thick.
 - 3. Color.
 - a. Choose an item.

2.07 ACCESSORIES

- A. Aluminum Vision Lites.
 - 1. Model.
 - a. Choose an item.
 - 2. Glazing Thickness.
 - a. Choose an item.
 - 3. Rectangular Lites.
 - a. Size, as indicated on drawings.
- B. Hardware.
 - 1. Pre-machine doors in accordance with templates from specified hardware manufactures and hardware schedule.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive doors.

- B. Notify architect of conditions that would adversely affect installation or subsequent use.
- C. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 PREPARATION

- A. Ensure openings to receive frames are plumb, level, square, and in tolerance.

3.03 ERECTION

- A. Install doors in accordance with manufacturer's instructions.
- B. Install doors plumb, level, square, true to line, and without warp or rack.
- C. Anchor frames securely in place.
- D. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by architect.
- E. Set thresholds in bed of mastic and back seal.
- F. Install exterior doors to be weathertight in closed position.
- G. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by architect.
- H. Remove and replace damaged components that cannot be successfully repaired as determined by architect.

3.04 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services.
 - 1. Manufacturer's representative shall provide technical assistance and guidance for installation of doors.

3.05 ADJUSTING

- A. Adjust doors, hinges, and locksets for smooth operation without binding.

3.06 CLEANING

- A. Clean doors promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that would damage finish.

3.07 PROTECTION

- A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

END OF SECTION

Document Request List

Plan Holders List

Organization Name	Main Contact	Download Date	City	Province/State
Bergmann	Cheryl Legg	01/06/2021 04:22 PM EST	Syracuse	New York
Spectrum Electrical Services Inc	Lisa Robbins	01/06/2021 02:34 PM EST	Montrose	Pennsylvania
Lantek Security and Automation	Peter KLUGE	01/04/2021 02:51 PM EST	Victor	New York
Contractors Register, Inc.	Maria Deg	01/04/2021 08:09 AM EST	Jefferson Valley	New York
IK Systems, Inc	Lenna Babigian	12/31/2020 04:00 PM EST	Victor	New York
Direct Surety	Horace Nabers	12/30/2020 03:56 PM EST	Foster City	California
Panko Electric	Jerry O	12/30/2020 03:43 PM EST	Binghamton	New York
MRB Group	Laurel Schulze	12/30/2020 10:19 AM EST	Rochester	New York
B&Y CONSULTING CORPORATION	DEEPAK BAJAJ	12/29/2020 05:18 PM EST	MORRIS PLAINS	New Jersey
CME Associates, Inc.	Amy Lewis	12/29/2020 08:44 AM EST	Horseheads	New York
Upstate Companies 1 LLC	William Crisell	12/24/2020 09:09 AM EST	Mount Upton	New York
Worth Construction Company, Inc.	Chief Estimator	12/23/2020 04:58 PM EST	Bethel	Connecticut
Terry Tree Service LLC	Heather Kennard	12/23/2020 03:38 PM EST	Rochester	New York
Mace Contracting Corporation	Vladimir Blaise	12/23/2020 03:01 PM EST	New Rochelle	New York
Gorick Construction Co., Inc.	Alfred Gorick	12/22/2020 10:29 AM EST	Binghamton	New York
Mitchell Associates Architects	Cecile Gleason	12/21/2020 10:33 AM EST	Voorheesville	New York
Postler & Jaeckle Corp.	Joseph Camillaci	12/21/2020 08:53 AM EST	Rochester	New York
Advance Testing Company, Inc.	Christopher McCracken	12/20/2020 08:29 PM EST	Campbell Hall	New York
M.J. Engineering and Land Surveying, P.C.	Becky Cahill	12/20/2020 08:39 AM EST	Clifton Park	New York
R.H.Fire,LLC	Rajahn Hasbin	12/18/2020 02:57 PM EST	Syracuse	New York
LeChase Construction Services, LLC	Jessicah Beckman	12/18/2020 12:59 PM EST	Corning	New York
SLAVIK & COMPANY, INC.	George Slavik	12/16/2020 09:52 AM EST	Johnson City	New York
William H. Lane Incorporated	Conan Cerretani	12/16/2020 09:32 AM EST	Binghamton	New York
Usherwood Office Technology	Chris Maynard	12/15/2020 08:16 AM EST	Syracuse	New York
Upstate Companies I, LLC	Laura Pegg	12/14/2020 04:57 PM EST	Mount Upton	New York
NELCORP Electrical Contracting Corporation	Scott Seiler	12/14/2020 02:22 PM EST	Endwell	New York
Economy Paving Co., Inc.	Tom Capalongo	12/14/2020 02:16 PM EST	Cortland	New York
Huen Electric, Inc	Paul Traver	12/14/2020 01:41 PM EST	Binghamton	New York
F E JONES CONSTRUCTION INC	Rachael Arno	12/11/2020 09:22 AM EST	BINGHAMTON	New York

Organization Name	Main Contact	Download Date	City	Province/State
Fahs Construction Group	JUSTIN WOODNORTH	12/11/2020 08:56 AM EST	Binghamton	New York
BLANDING ELECTRIC	MATTHEW LABOSKY	12/10/2020 03:50 PM EST	Vestal	New York
Andrew R Mancini Assoc. Inc	americo Dicamillo	12/10/2020 02:30 PM EST	Endicott	New York
MIDDENDORF CONTRACTING	Cody Brown	12/10/2020 02:03 PM EST	WYSOX	Pennsylvania
Diekow Electric, Inc.	Vanessa Angeline	12/10/2020 10:27 AM EST	Marathon	New York
J&K PLUMBING & HEATING CO.,INC	ALLYN JONES JR.	12/10/2020 09:58 AM EST	Binghamton	New York
Matco Electric	Chris Richard	12/10/2020 08:55 AM EST	Vestal	New York
Schuler-Haas Electric Corp	Bob Sivak	12/09/2020 02:30 PM EST	Johnson City	New York
Intermountain Electronics INC	Josh Mininger	12/09/2020 11:02 AM EST	Henderson	Colorado
Kraemer Building Corp.	Don Kraemer	12/09/2020 09:37 AM EST	Croton On Hudson	New York
Edger Enterprises of Elmira, Inc.	Kelly Sherman	12/09/2020 09:17 AM EST	Elmira Heights	New York
J.L. Watts Excavating, Inc.	Jeffrey Watts	12/09/2020 08:07 AM EST	Mainesburg	Pennsylvania
Bob Murphy Incorporated	Jason Bohrer	12/09/2020 07:07 AM EST	Vestal	New York
Securitas Electronic Security, Inc.	Joseph Levy	12/08/2020 04:12 PM EST	Scarsdale	New York
John Mills Electric, Inc.	Joseph Janeski	12/08/2020 03:46 PM EST	Elmira Heights	New York
Sano-Rubin Construction Services, LLC	Colleen Breiner	12/08/2020 03:26 PM EST	Albany	New York
Kokolakis Contracting	Jenny Sanchez	12/08/2020 03:11 PM EST	Tarpon Springs	Florida
LeChase Construction Services, LLC	Adam Green	12/08/2020 12:07 PM EST	Binghamton	New York
Daniel J. Lynch, Inc.	Christine Antoine	12/08/2020 11:14 AM EST	Endwell	New York
Welliver	Daniel Traina	12/08/2020 09:47 AM EST	Montour Falls, NY	New York
Builders Exchange of the Southern Tier	Liz Madison	12/08/2020 09:19 AM EST	Binghamton	New York
Streeter Associates	Robert Stanton	12/08/2020 08:42 AM EST	Elmira	New York
Metro Environmental Services LLC	Marshia Gibson	12/08/2020 08:38 AM EST	Farmingdale	New York
Sanders Industrial Equipment Co., Inc.	Sharon Hoff	12/08/2020 08:28 AM EST	Mechanicville	New York
Binghamton Precast & Supply Corp.	Ruth Howe	12/08/2020 08:20 AM EST	Binghamton	New York
Menard Group	Nathan McLean	12/08/2020 08:17 AM EST	Carnegie	Pennsylvania
Bothar Construction, LLC	Pete Jensen	12/08/2020 08:13 AM EST	Binghamton	New York
Consigli Construction NY, LLC	Dan Fischer	12/08/2020 07:46 AM EST	Pleasant Valley	New York
Fire, Security & Sound Systems	Phil Conti	12/08/2020 07:10 AM EST	Latham	New York
Rozell Industries	Thomas Normile	12/08/2020 06:16 AM EST	Queensbury	New York
Officepartners360	Tim Boylan	12/08/2020 01:28 AM EST	Pittsburgh	Pennsylvania

Organization Name	Main Contact	Download Date	City	Province/State
Climate Survival Solutions, Inc. PBC	Tim Loncarich	12/08/2020 01:12 AM EST	Grand Junction	Colorado
Dodge Data & Analytics	Adam Bouman	12/07/2020 09:26 PM EST	Arlington	Texas
Construction Bid Source	Angela R	12/07/2020 07:26 PM EST	Holly Springs	North Carolina
Holt Conctruction	Dan Depew	12/07/2020 05:42 PM EST	Goshen	New York
Geotechnical Engineering Services P.C.	Christopher Aschmoneit	12/07/2020 03:34 PM EST	Elmsford	New York
Atlantic Testing Laboratories, Limited	Eric M. Van Alstyne	12/07/2020 01:14 PM EST	Clifton Park	New York
Barton & Loguidice, D.P.C.	Brenda Gray	12/07/2020 01:04 PM EST	Albany	New York
The Chazen Companies	Sylvia Gersbach	12/07/2020 11:42 AM EST	Poughkeepsie	New York
SAVEAROUND INC.	Jackie Gow	12/07/2020 11:35 AM EST	Binghamton	New York

