

ADDENDUM No. 1

The following additions, deletions, and/or changes or clarifications to the drawings, specifications, and bidding documents for this project, shall become and are hereby made part of the Contract Documents. They change the original documents only in the manner and to the extent stated. Each bidder shall acknowledge receipt of this Addendum in the appropriate location on the bid proposal form.

This addendum consists of 02 pages, and 00 drawings and 01 attachment.

Specifications

Item 001 00 21 13 20 - Information to Bidders:

Section 3 Proposals REPLACE paragraph 4 in its entirety with the following:

4. Prices inserted shall be in whole dollar amount but if cents are inserted, the Fund shall round the amount down to the nearest whole number. Any Proposal may be considered informal which does not contain prices in words and figures in all of the spaces provided or which is not accompanied by a bid security in proper form at the time of bid. In addition, failure to include at the time of bid **either 1) a New York State Department of Labor (“DOL”) Certificate of Registration (“Certificate of Registration”) OR 2) the confirmation email from DOL evidencing submission of bidder’s application to obtain a Certificate of Registration (“Confirmation Email”) will result in the bid being rejected.**

a. In case any price shown in words and its equivalent shown in figures do not agree, the written words shall be binding upon the bidder. In case of a discrepancy in the prices contained in the Proposal forms submitted in duplicate by the bidder, the Proposal form which contains the lower bid shall be deemed the bid of the bidder; provided, however, the Fund at its election may consider the Proposal of such bidder informal.

Item 002 Division 26 Section 265119:

Section 265119 dated January 10th, 2025 is deleted and replaced by Section 265119 dated January 27th, 2025. See the attached revised Specification Section 265119.

Drawings:

Item 003 Sheet E101 – Lighting controls in rooms 1002A and 1002B to be GMDS-W Momentary Switch in lieu of 010M Dimmer.

Item 004 Sheet E101 – Controls Symbol Legend – Revised Basis of Design to be “Basis of Design is Greengate Series as Manufactured by Cooper Lighting. Other Available Manufacturers are Lutron and Wattstopper”

Item 005 Sheet LV1.00 –

Under Electrical, AV, Low Voltage Symbols/ Legend/ Abbreviation – Equipment with the note - (By Others) at 8 locations is replaced with (Provided by the Campus).

Item 006 Sheet LV1.00

Under Symbols/ Legend – Door Security Proposed & Cameras – Equipment with the note - (By Others) at 2 locations is replaced with (Provided by the Campus).

Item 007 Sheet LV1.01

Under Electrical, AV, Low Voltage Symbols/ Legend/ Abbreviation – Equipment with the note - (By Others) at 8 locations is replaced with (Provided by the Campus).

Item 008 Sheet LV1.01

Under Symbols/ Legend – Door Security Proposed & Cameras – Equipment with the note - (By Others) at 2 locations is replaced with (Provided by the Campus).

Item 009 Sheet AV1.00

Under Electrical, AV, Low Voltage Symbols/ Legend/ Abbreviation – Equipment with the note - (By Others) at 8 locations is replaced with (Provided by the Campus).

Item 010 Sheet AV1.01 –

Under Electrical, AV, Low Voltage Symbols/ Legend/ Abbreviation – Equipment with the note - (By Others) at 8 locations is replaced with (Provided by the Campus).

Attachments

Attachment 01_ Division 26 Section 265119 LED Interior Lighting dated January 27, 2025

End of ADDENDUM No. 1

SECTION 265119 - LED INTERIOR LIGHTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Interior solid-state luminaires that use LED technology.
2. Lighting fixture supports.

B. Related Requirements:

1. Section 260923 "Lighting Control Devices" for automatic control of lighting, including occupancy sensors, and multipole lighting relays and contactors.

C. Related Work:

1. Section 260923 – Lighting Control Devices

1.2 RELATED DOCUMENTS

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

1.3 DEFINITIONS

- A.** CCT: Correlated color temperature.
- B.** CRI: Color Rendering Index.
- C.** Fixture: See "Luminaire."
- D.** IP: International Protection or Ingress Protection Rating.
- E.** LED: Light-emitting diode.
- F.** Lumen: Measured output of lamp and luminaire, or both.
- G.** Luminaire: Complete lighting unit, including lamp, reflector, and housing.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Arrange in order of luminaire designation.
2. Include data on features, accessories, and finishes.
3. Include physical description and dimensions of luminaires.
4. Include emergency lighting units, including batteries and chargers.
5. Include life, output (lumens, CCT, and CRI), and energy efficiency data.
6. Photometric data and adjustment factors based on laboratory tests, complying with IESNA Lighting Measurements Testing and Calculation Guides, of each lighting fixture type. The adjustment factors shall be for lamps and accessories identical to those indicated for the lighting fixture as applied in this Project IES LM-79 and IES LM-80.
 - a. Manufacturers' Certified Data: Photometric data certified by manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program for Energy Efficient Lighting Products.
 - b. Testing Agency Certified Data: For indicated luminaires, photometric data certified by a qualified independent testing agency. Photometric data for remaining luminaires shall be certified by manufacturer.

B. Shop Drawings: For nonstandard or custom luminaires.

1. Include plans, elevations, sections, and mounting and attachment details.
2. Include details of luminaire assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
3. Include diagrams for power, signal, and control wiring.

C. Samples: For each luminaire and for each color and texture with standard factory-applied finish.

D. Samples for Initial Selection: For each type of luminaire with custom factory-applied finishes.

1. Include Samples of luminaires and accessories involving color and finish selection.

E. Samples for Verification: For each type of luminaire.

1. Include Samples of luminaires and accessories to verify finish selection.

- F. Product Schedule: For luminaires and lamps. Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Reflected ceiling plan(s) and other details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Lighting luminaires.
 - 2. Suspended ceiling components.
 - 3. Partitions and millwork that penetrate the ceiling or extend to within 12 inches of the plane of the luminaires.
 - 4. Structural members to which equipment and luminaires will be attached.
 - 5. Initial access modules for acoustical tile, including size and locations.
 - 6. Items penetrating finished ceiling, including the following:
 - a. Other luminaires.
 - b. Air outlets and inlets.
 - c. Speakers.
 - d. Sprinklers.
 - e. Access panels.
 - f. Ceiling-mounted projectors.
 - 7. Moldings.
- B. Qualification Data: For testing laboratory providing photometric data for luminaires.
- C. Seismic Qualification Certificates: For luminaires, accessories, and components, from manufacturer.
 - 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation.
 - 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
- D. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- E. Product Certificates: For each type of luminaire.
- F. Product Test Reports: For each luminaire, for tests performed by manufacturer and witnessed by a qualified testing agency.
- G. Sample warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For luminaires and lighting systems to include in operation and maintenance manuals.
 - 1. Provide a list of all lamp types used on Project; use ANSI and manufacturers' codes.

1.7 QUALITY ASSURANCE

- A. Luminaire Photometric Data Testing Laboratory Qualifications: Luminaire manufacturer's laboratory that is accredited under the NVLAP for Energy Efficient Lighting Products.
- B. Luminaire Photometric Data Testing Laboratory Qualifications: Provided by an independent agency, with the experience and capability to conduct the testing indicated, that is an NRTL as defined by OSHA in 29 CFR 1910.7, accredited under the NVLAP for Energy Efficient Lighting Products, and complying with the applicable IES testing standards.
- C. Each luminaire type shall be binned within a three-step MacAdam Ellipse to ensure color consistency among luminaires.
- D. Mockups: For interior lighting luminaires in room or module mockups, complete with power and control connections.
 - 1. Obtain Architect's approval of luminaires in mockups before starting installations.
 - 2. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
 - 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Protect finishes of exposed surfaces by applying a strippable, temporary protective covering before shipping.

1.9 WARRANTY

- A. Warranty: Manufacturer and Installer agree to repair or replace components of luminaires that fail in materials or workmanship within specified warranty period.
- B. Warranty Period: Five year(s) from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Luminaires shall withstand the effects of earthquake motions determined according to ASCE/SEI 7
- B. Seismic Performance: Luminaires and lamps shall be labeled vibration and shock resistant.
 - 1. The term "withstand" means "the luminaire will remain in place without separation of any parts when subjected to the seismic forces specified and the luminaire will be fully operational during and after the seismic event."

2.2 LUMINAIRE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. NRTL Compliance: Luminaires for hazardous locations shall be listed and labeled for indicated class and division of hazard by an NRTL.
- C. FM Global Compliance: Luminaires for hazardous locations shall be listed and labeled for indicated class and division of hazard by FM Global.
- D. Recessed Fixtures: Comply with NEMA LE 4.
- E. Bulb shape complying with ANSI C79.1.
- F. Lamp base complying with ANSI C81.6.
- G. Rated lamp life of 50,000 hours.
- H. Internal driver.
- I. Nominal Operating Voltage: 120V/277 V ac.
 - 1. Lens Thickness: At least 0.125 inch minimum unless otherwise indicated.
- J. Housings:
 - 1. Extruded-aluminum housing and heat sink.
 - 2. Powder-coat finish.

2.3 MANUFACTURERS

- A. Subject to compliance with project requirements, provide the products specified in the Luminaire Schedule and as noted herein.
- B. LR1 Light Fixture: LED Recessed Direct Linear in grid ceiling (White finish)
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Litecontrol (Basis of Design) – Model number 3L-LG-D-X'-SOF-C1-35K9-D60-D01-1C-UNV-OLS-R-LED-JAK-LED-325, Lumens 600/FT, 3500K, 90CRI, 5.5W/FT, 0-10V Dimming.
 - b. Elite.
 - c. Birchwood.
 - d. Or approved equal.
- C. LR2 Light Fixture: LED Recessed Direct Linear in grid ceiling. RAL finish. Housing color to match surrounding ceiling.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Litecontrol (Basis of Design) – Model number 3L-LG-D-X'-SOF-C1-35K9-D40-D01-1C-UNV-OLS-R-LED-JAK-LED-325, Lumens 400/FT, 3500K, 90CRI, 3.5W/FT, 0-10V Dimming.
 - b. Elite.
 - c. Birchwood.
 - d. Or approved equal.
- D. LS1 Light Fixture: LED Recessed Linear in drywall ceiling. White finish.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Litecontrol (Basis of Design) – Model number 3L-P-D-X'-X-SOF-C1-35K9-D060-D01-1C-UNV-FA1-OLS-D-LED-COL-LED, Lumens 600/FT, 3500K, 90CRI, 5.25W/FT, 0-10V Dimming.
 - b. Elite.
 - c. Birchwood.
 - d. Or approved equal.
- E. LS2 Light Fixture: LED 4ft-long Strip Light. White finish.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. Lithonia (Basis of Design) – Model number ZLIN-L48-SMR-3500LM-FST-MVOLT-35K-90CRI-WH-4SNX-48SL-LN-UNV-L935-CD1-U-LR25195-LED48/WLINEAR/3CCT/3WO/UNV/D/HO, 3500K, 90CRI, 0-10V Dimming.
 - b. Metalux.
 - c. Luxrite.
 - d. Or approved equal.
- F. R1 Light Fixture: LED 1ft x 4ft Recessed Behavioral Health type. White finish.
- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Lifeshield (Basis of Design) – Model number MDMB-24-8-35-G-U-TC6-2L35K-24-CM1885-W, 3900 Lumens, 3500K, 80CRI, 45W, 0-10V Dimming.
 - b. Metalumen.
 - c. Visa Lighting.
 - d. Or approved equal.
- G. X1 Light Fixture: LED Exit Sign. Satin Aluminum finish.
- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. DualLite (Basis of Design) – Model number CCEL-XTL-AL-S900U.
 - b. LCD.
 - c. Exitronix.
 - d. Or approved equal.
- H. ETR Light Fixture: Existing Light Fixture to Remain.
- I. SAL-2 Light Fixture: Existing recessed 2ft x 2ft fixture salvaged for reuse.
- J. SAL-T Light Fixture: Existing 1ft x 4ft suspended linear fixture salvaged for reuse.

2.3 MATERIALS

A. Metal Parts:

- 1. Free of burrs and sharp corners and edges.
- 2. Sheet metal components shall be steel unless otherwise indicated.
- 3. Form and support to prevent warping and sagging.

- B. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position.
- C. Factory-Applied Labels: Comply with UL 1598. Include recommended lamps. Locate labels where they will be readily visible to service personnel, but not seen from normal viewing angles when lamps are in place.
 - 1. Label shall include the following lamp characteristics:
 - a. "USE ONLY" and include specific lamp type.
 - b. Lamp diameter, shape, size, wattage, and coating.
 - c. CCT and CRI for all luminaires.

2.4 METAL FINISHES

- A. Variations in finishes are unacceptable in the same piece. Variations in finishes of adjoining components are acceptable if they are within the range of approved Samples and if they can be and are assembled or installed to minimize contrast.

2.5 LUMINAIRE FIXTURE SUPPORT COMPONENTS

- A. Comply with requirements in Section 260529 "Hangers and Supports for Electrical Systems" for channel and angle iron supports and nonmetallic channel and angle supports.
- B. Single-Stem Hangers: 1/2-inch steel tubing with swivel ball fittings and ceiling canopy. Finish same as luminaire.
- C. Wires: ASTM A 641/A 641 M, Class 3, soft temper, zinc-coated steel, 12 gage.
- D. Rod Hangers: 3/16-inch minimum diameter, cadmium-plated, threaded steel rod.
- E. Hook Hangers: Integrated assembly matched to luminaire, line voltage, and equipment with threaded attachment, cord, and locking-type plug.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for luminaire to verify actual locations of luminaire and electrical connections before fixture installation. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 TEMPORARY LIGHTING

- A. If approved by the Architect, use selected permanent luminaires for temporary lighting. When construction is sufficiently complete, clean luminaires used for temporary lighting and install new lamps.

3.3 INSTALLATION

- A. Comply with NECA 1.
- B. Install luminaires level, plumb, and square with ceilings and walls unless otherwise indicated.
- C. Install lamps in each luminaire.
- D. Supports:
 - 1. Sized and rated for luminaire weight.
 - 2. Able to maintain luminaire position after cleaning and relamping.
 - 3. Provide support for luminaire without causing deflection of ceiling or wall.
 - 4. Luminaire mounting devices shall be capable of supporting a horizontal force of 100 percent of luminaire weight and vertical force of 400 percent of luminaire weight.
- E. Flush-Mounted Luminaire Support:
 - 1. Secured to outlet box.
 - 2. Attached to ceiling structural members at four points equally spaced around circumference of luminaire.
 - 3. Trim ring flush with finished surface.
- F. Wall-Mounted Luminaire Support:
 - 1. Attached to structural members in walls.
 - 2. Do not attach luminaires directly to gypsum board.
- G. Ceiling-Mounted Luminaire Support:
 - 1. Ceiling mount with two 5/32-inch- diameter aircraft cable supports adjustable to 120 inches in length.
 - 2. Ceiling mount with pendant mount with 5/32-inch- diameter aircraft cable supports adjustable to 120 inches in length.
 - 3. Ceiling mount with hook mount.
- H. Suspended Luminaire Support:

1. Pendants and Rods: Where longer than 48 inches, brace to limit swinging.
 2. Stem-Mounted, Single-Unit Luminaires: Suspend with twin-stem hangers. Support with approved outlet box and accessories that hold stem and provide damping of luminaire oscillations. Support outlet box vertically to building structure using approved devices.
 3. Continuous Rows of Luminaires: Use tubing or stem for wiring at one point and [tubing or rod] [wire support] for suspension for each unit length of luminaire chassis, including one at each end.
 4. Do not use ceiling grid as support for pendant luminaires. Connect support wires or rods to building structure.
- I. Ceiling-Grid-Mounted Luminaires:
1. Secure to any required outlet box.
 2. Secure luminaire to the luminaire opening using approved fasteners in a minimum of four locations, spaced near corners of luminaire.
 3. Use approved devices and support components to connect luminaire to ceiling grid and building structure in a minimum of four locations, spaced near corners of luminaire.
- J. Comply with requirements in Section 260519 "Low-Voltage Electrical Power Conductors and Cables" for wiring connections.

3.4 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Section 260553 "Identification for Electrical Systems."

3.5 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
1. Operational Test: After installing luminaires, switches, and accessories, and after electrical circuitry has been energized, test units to confirm proper operation.
 2. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery power and retransfer to normal.
- B. Luminaire will be considered defective if it does not pass operation tests and inspections.
- C. Prepare test and inspection reports.

3.6 STARTUP SERVICE

- A. Comply with requirements for startup specified in Section 260943.16 "Addressable-Fixture Lighting Controls."
- B. Comply with requirements for startup specified in Section 260943.23 "Relay-Based Lighting Controls."

3.7 ADJUSTING

- A. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting the direction of aim of luminaires to suit occupied conditions. Make up to two visits to Project during other-than-normal hours for this purpose. Some of this work may be required during hours of darkness.
1. During adjustment visits, inspect all luminaires. Replace lamps or luminaires that are defective.
 2. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.
 3. Adjust the aim of luminaires in the presence of the Architect.

END OF SECTION 26519