DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 7 TO PROJECT NO. 47000

CONSTRUCTION WORK
PROVIDE FIRE PROTECTION MODIFICATIONS
CORNING TOWER
EMPIRE STATE PLAZA
ALBANY, NY

December 12, 2025

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATIONS

1. SECTION 211313 SPRINKLER SYSTEMS: Discard the section bound in the Project Manual and substitute the accompanying Section (Pages 211313-1 through 211313-7), noted "Revised 12/10/2025".

2. SECTION 213000 FIRE PUMP SYSTEM:
   a. Page 213000 – 2, Subparagraph 1.04.D.: Add Subparagraph 3. to Read:
   "3. A licensed NYS Professional Engineer with a minimum of 10 years' experience in fire protection system design with fire pumps."

END OF ADDENDUM

Brady Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 211313

SPRINKLER SYSTEMS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Hangers and Supports: Section 210529.

B. Sprinkler and Standpipe Piping: Section 211300.

1.02 REFERENCES

A. NFPA 13 - National Fire Protection Association Standard for the Installation of Sprinkler Systems (2016 edition).

1.03 SYSTEM DESCRIPTION

A. Type of System:
   1. Wet System - Hydraulically Designed System.

B. Occupancy Classification:
   1. Ordinary Hazard Occupancy Group 1.

1.04 SUBMITTALS

A. Shop Drawings:
   1. Complete sprinkler system layout indicating the locations of sprinkler heads, devices, and accessories. Include separate details of special or not easily visualized piping arrangements and inspector's test valves and connections.
   2. Hydraulic calculations shall be complete and cross referenced to the appropriate drawing sheets.
   3. Shop drawings shall be developed by and the hydraulic calculations shall be performed by person(s) meeting one of the following minimum qualification levels (without substitution):
      a. National Institute for Certification in Engineering Technologies (NICET) Level III for Water-Based Fire Protection Systems certified technicians, OR
      b. National Institute for Certification in Engineering Technologies (NICET) Level IV for Water-Based Fire Protection Systems certified technicians.

      Where a certified NICET Level III or IV Technician in "Water-Based Fire Protection System Layout" performs the shop drawings and hydraulic calculations, the drawings and hydraulic calculations shall bear the seal and signature of the NICET Technician.
      c. A licensed NYS Professional Engineer with a minimum of 10 years' experience in fire protection system design with fire pumps.

B. Seismic Submittals: Provide seismic sway bracing shop drawings per NFPA 13 Section 9.3 and the requirements of the Contract Documents.

1. Include plans, elevations, section, and location of attachments with details incorporating sway bracing, flexibility, clearances and anchoring.
2. Seismic Bracing Calculations.
3. Refer to Specification 210529, HANGERS AND SUPPORTS FOR FIRE SUPPRESSION PIPING AND EQUIPMENT, for additional information and requirements.

C. Product Data: Catalog sheets, specifications, and installation instructions. Indicate UL or FM approval for each product. Include the following additional information:
1. Electrical Devices: Complete description of intended use, wiring diagrams, data plate information and, in the case of switching devices, whether normally on, or normally off. Include motor test data.
2. Mechanical Devices: Complete description of intended use, including normal operating capacities and working pressures.
3. Hose Threads: Verify that hose threads on fire department connections match threads on equipment used by the local or servicing fire department.

D. Quality Control Submittals:
1. Design Data: The portions of the sprinkler system not sized on the Contract Drawings shall be sized in accordance with NFPA requirements for Hydraulically Designed Systems. Submit drawings and hydraulic calculations for approval.
2. Certificates: As required under Quality Assurance Article.
3. Contractor's Qualification, Installer's Qualification, Working Drawings Hydraulic Calculation Preparer Qualification Data:
    a. Name of each person who will be performing the Work.
    b. Upon request, furnish names and addresses of the required number of similar projects that each person has worked on which meet the experience criteria.

E. Contract Closeout Submittals:
1. Operation and Maintenance Data. Deliver 2 copies to the Director's Representative:
    a. Instruction manual describing the operation and maintenance of the system.
    b. Parts list for each mechanical and electrical device.
    c. Publication NFPA 25, Inspection, Testing, and Maintenance of Water Based Fire Protection Systems.

1.05 QUALITY ASSURANCE

A. Qualifications:
1. Contractor's Qualifications Data:
    a. Contractor's name, business address and telephone number.
    b. Names and address of 3 similar projects that each person has worked on during the past 5 years.
    c. Name of Project Manager for the project that is National Institute for Certification in Engineering Technologies (NICET) certified as Level III or IV for Water-Based Fire Protection Systems, Provide a copy of Project Manager's:
        1. NICET Letter of Approval indicating Level III for Water-Based Fire Protection Systems certification, OR
        2. NICET Letter of Approval indicating Level IV for Water-Based Fire Protection Systems certification.

3. A licensed NYS Professional Engineer with a minimum of 10 years' experience in fire protection system design with fire pumps.

2. Installer's Qualifications Data:
   a. Name of each person who will be performing the Work and their employer's name, business address and telephone number.
   b. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.
3. Working Drawing/Hydraulic Calculation Preparer Qualification Data. Working drawings and hydraulic calculations shall be prepared by either a:
   a. National Institute for Certification in Engineering Technologies (NICET) certified as Level III for Water-Based Fire Protection Systems technician.
   b. National Institute for Certification in Engineering Technologies (NICET) certified as Level IV for Water-Based Fire Protection Systems technician.
   c. A licensed NYS Professional Engineer with a minimum of 10 years' experience in fire protection system design with fire pumps.
   d. Name of each person who will be preparing working drawings/hydraulic calculations, required for the Work.
   e. Upon request, furnish names and addresses of the required number of similar projects that each person has worked on which meet the experience criteria.
4. For the Working Drawing/Hydraulic Calculation Preparer qualification data, provide a copy of:
   a. NICET Letter of Approval of supervisor indicating Level III for Water-Based Fire Protection Systems certification OR
   b. NICET Letter of Approval of supervisor indicating Level IV for Water-Based Fire Protection Systems certification
   c. A licensed NYS Professional Engineer with a minimum of 10 years' experience in fire protection system design with fire pumps.

5. Certifications:
   a. Welding certificates.
   b. Certified NICET Level III or IV Technician for "Water-Based Fire Protection Layout", or Licensed NYS Professional Engineer with proof of experience.

6. Fire-hydrant and/or fire pump flow test report. As per NFPA 13, test shall be conducted no more than 12 months prior to the working plan submittal.
7. Field Test Reports: Test Certificates and Test Forms to be used for projects. Each report chosen to which is applicable for each project specific.
   a. NFPA 13 Contractor's Material and Test Certificate for Aboveground Piping.

1.06 MAINTENANCE

A. Spare Parts: Furnish the following items and deliver to the Director's Representative for storage in spare sprinkler head cabinets:
   1. Spare sprinkler heads of required temperature range as follows:

QUANTITY	TYPE
6	standard upright

2. One sprinkler head wrench to fit each type sprinkler head listed above.

PART 2 PRODUCTS

2.01 VALVES AND ACCESSORIES

A. Gate Valves (175 psig non-shock working pressure):
   1. 3/4 inch to 2 inch: Bronze body, OS & Y indicating type; double or wedge disc with threaded ends.
   2. 2-1/2 inch and larger: IBBM, OS & Y indicating type; double or wedge disc with end connections as required to suit the piping system.

B. Valve Locking Devices: Test and Drain Valves shall have padlocking feature in both the open and closed position.
   1. Padlock: FPPI Break Shackle Locks - #764.40/ keyed alike, furnished with 2 keys for each lock.

C. Riser Assembly:
   1. One butterfly valve with supervisory switch.
   2. Flow switch.
   3. Test and drain valve.
   4. Pressure gauge.

D. Check Valves: IBBM, single clapper swing check with metal to metal or rubber faced checks, suitable for horizontal and vertical installation; end connections as required to suit the piping system; 175 psig non-shock working pressure.

E. Pressure Gages: Range of 2 times system working pressure at point where installed. Equip with gage cock and provisions for draining.

F. Test and Drain Valves:
   1. Standard: UL's "Fire Protection Equipment Directory" of FM Global "Approval Guide."
   2. Pressure Rating: 175-psig minimum.
   3. Body Material: bronze housing with orifice, sight glass, and integral test valve.
   4. Include: pressure relief valve
   5. Size: Same as connected piping.
   6. Inlet and Outlet: Threaded or grooved.
   7. Locking plate kit to prevent unintentional alarms.

2.02 SPRINKLER HEADS AND APPURTENANCES

A. Sprinkler Heads: Brass or bronze, with standard 1/2 inch orifice, and deflector:
   1. Upright Type: Deflector designed to distribute water downward in a uniform hemispherical spray pattern.
   2. Markings: Stamp sprinkler type on deflector in addition to NFPA's color code requirements covering temperature classification.

B. Escutcheons:
   1. Material:Brass or Bronze concealed

2. Finish: White

C. Spare Sprinkler Head Cabinet: Steel, with hinged cover, constructed of minimum 20 gage material and fitted with 16 gage steel racks designed to hold quantities and types of spare sprinkler heads and sprinkler head wrenches.
   1. Finish: Bright red, baked on enamel.

2.03 WATER FLOW ALARM DEVICE

A. Vane Type Waterflow Switch: Autocall Div., Federal Signal Corp.'s 4160, Potter Electric Signal Co.'s VSR-F, or Reliable's Model A., having:
   1. Corrosion-resistant vane.

2. Splash/dust resistant enclosure with anti-tamper switch.
3. Adjustable pneumatic retard.
4. Screw type wiring terminals.
5. Switch rated minimum 7.0 amps at 125 V ac and 0.25 amps at 125 V dc.

2.04 VALVE SUPERVISORY SWITCHES

A. Mechanically actuated, designed to close contacts and sound an alarm when supervised valve is closed and when switch cover removed.
   1. For Gate Valves: Potter Electric Signal Co.'s OSYSU-A, or Grinnell's F640.

2.05 SIGNS

A. Steel with vitreous enamel finish, lettering on contrasting background to identify and indicate the function of:
   1. Control valves.
   2. Drain, test, air supply and alarm check valves.
   3. Water motor alarm.
   4. Hydraulic Design Nameplate Data: Size approx. 9 x 12 inches, inscribed with the following:
      a. SPRINKLER SYSTEM HYDRAULICALLY DESIGNED (in block letters).
      b. Location and area of hydraulically designed section.
      c. Discharge density over designed area in gallons per minute.
      d. Residual pressure at base of riser supplying water to designed section.

PART 3 EXECUTION

3.01 INSTALLATION

A. Unless otherwise shown or specified, install the Work of this section in accordance with NFPA 13, and the item manufacturer's installation instructions.

B. Locking Valves:
   1. Lock gate valves in open position with chain looped through handwheel and around adjacent sprinkler pipe. Secure with padlock.
   2. Lock test outlet valve in closed position with padlock.

C. Spare Sprinkler Head Cabinet: Secure to building wall within the 30th floor fire pump room.

D. Signs: Install signs identifying the following:
   1. Valves: One for each size, type and function.
   2. Water Motor Alarm.
   3. Hydraulically Designed System.

3.02 FIELD QUALITY CONTROL

A. Tests: Unless otherwise shown or specified, perform tests in accordance with NFPA 13.

1. Flushing: In addition to the requirements of the Standard, flush new piping before making final connection to existing systems and before performing hydrostatic test. Flush at rates of flow prescribed in the Contractor's Material and Test Certificate. After making final connections, flush entire system and assure that debris is removed from piping and there are no stoppages or obstructions in the system.
2. System Tests:
   a. Test all new Work.
   b. Notify the Director's Representative when the Work of this Section is ready for testing.
   c. Perform the tests when directed, and in the Director's Representatives presence.

END OF SECTION