SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 **SUMMARY**

- This Section includes administrative provisions for coordinating construction operations on A. Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - Conservation. 2.
 - 3. Coordination Drawings.
 - 4. Project Web site.
 - Administrative and supervisory personnel. 5.
 - 6. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility will be assigned to a specific contractor.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - Section 013200 "Construction Progress Documentation" for preparing and submitting the 1. Contractor's Construction Schedule.
 - 2. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - Section 017700 "Closeout Procedures" for coordinating Contract closeout. 3.
 - Section 018113 "Sustainable Design Requirements." 4.
 - Section 018123 "Sustainable Design Requirements CalGreen." 5.
 - Section 018133 "Sustainable Design Requirements Embodied Carbon." 6.

1.3 INFORMATIONAL SUBMITTALS

Coordination Drawings: Prepare Coordination Drawings if limited space availability A. necessitates maximum utilization of space for efficient installation of different components or if coordination is required for installation of products and materials fabricated by separate entities or as specified in individual Sections.

CUIMC - Interventional

- Indicate relationship of components shown on separate Shop Drawings. 1.
- Indicate required installation sequences. 2.
- 3. Refer to Divisions in the Facility Services Subgroup for specific Coordination Drawing requirements for mechanical and electrical installations.
- В. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Use CSI Form 1.5A in Document 00 60 00 "Forms." Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Drawing number and detail references, as appropriate, covered by subcontract.
- **C**. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
 - 1. Post copies of list in project meeting room, in temporary field office, on Project Web site, and by each temporary telephone. Keep list current at all times.

1.4 GENERAL COORDINATION PROCEDURES

- Coordination: Coordinate construction operations included in various Sections of the A. Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - Schedule construction operations in sequence required to obtain the best results where 1. installation of one part of the Work depends on installation of other components, before or after its own installation.
 - Coordinate installation of different components to ensure maximum performance and 2. accessibility for required maintenance, service, and repair.
 - Make adequate provisions to accommodate items scheduled for later installation. 3.
 - Arrange pipes, ducts, conduits, and other overhead systems in an orderly manner when 4. indicated to remain exposed.
- B. If necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.

CUIMC - Interventional

- 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's Construction Schedule.
 - 2. Preparation of the Schedule of Values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preinstallation conferences.
 - 7. Project closeout activities.
 - 8. Startup and adjustment of systems.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

1.5 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
 - 1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - Use applicable Drawings as a basis for preparation of coordination drawings.
 Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
 - b. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
 - c. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
 - d. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.

- Show location and size of access doors required for access to concealed dampers, e. valves, and other controls.
- f. Indicate required installation sequences.
- Indicate dimensions shown on the Drawings. Specifically note dimensions that g. appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- Coordination Drawing Organization: Organize coordination drawings as follows: В.
 - 1. Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid. Supplement plan drawings with section drawings where required to adequately represent the Work.
 - Plenum Space: Indicate subframing for support of ceiling and wall systems, mechanical 2. and electrical equipment, and related Work. Locate components within ceiling plenum to accommodate layout of light fixtures indicated on Drawings. Indicate areas of conflict between light fixtures and other components.
 - 3. Underfloor Plenum Space: Indicate support of access flooring, ramps, and stairs, mechanical and electrical equipment, and related Work. Locate components within underfloor plenum to accommodate layout of diffusers, electrical, data, and communications systems, and other components indicated on Drawings. Indicate areas of conflict.
 - Mechanical Rooms: Provide coordination drawings for mechanical rooms showing plans 4. and elevations of mechanical, plumbing, fire-protection, fire-alarm, and electrical equipment.
 - 5. Structural Penetrations: Indicate penetrations and openings required for all disciplines.
 - Slab Edge and Embedded Items: Indicate slab edge locations and sizes and locations of 6. embedded items for metal fabrications, sleeves, anchor bolts, bearing plates, angles, door floor closers, slab depressions for floor finishes, curbs and housekeeping pads, and similar items.
 - 7. Mechanical and Plumbing Work: Show the following:
 - Sizes and bottom elevations of ductwork, piping, and conduit runs, including a. insulation, bracing, flanges, and support systems.
 - Dimensions of major components, such as dampers, valves, diffusers, access doors, b. cleanouts and electrical distribution equipment.
 - Fire-rated enclosures around ductwork. c.
 - 8. Electrical Work: Show the following:
 - Runs of vertical and horizontal conduit 1-1/4 inches in diameter and larger. a.
 - Light fixture, exit light, emergency battery pack, smoke detector, and other b. fire-alarm locations.

- Panel board, switch board, switchgear, transformer, busway, generator, and motor c. control center locations.
- d. Location of pull boxes and junction boxes, dimensioned from column center lines.
- Fire-Protection System: Show the following: 9.
 - a. Locations of standpipes, mains piping, branch lines, pipe drops, and sprinkler heads.
- 10. Review: Architect will review coordination drawings to confirm that the Work is being coordinated, but not for the details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make changes as directed and resubmit.
- 11. Coordination Drawing Prints: Prepare coordination drawing prints according to requirements in Section 013300 "Submittal Procedures."
- C. Coordination Digital Data Files: Prepare coordination digital data files according to the following requirements:
 - 1. File Preparation Format: Same digital data software program, version, and operating system as original Drawings.
 - 2. File Preparation Format: DWG, operating in Microsoft Windows operating system.
 - 3. File Submittal Format: Submit or post coordination drawing files using Portable Data File (PDF) format.
 - 4. Architect will furnish Contractor one set of digital data files of Drawings for use in preparing coordination digital data files.
 - Architect makes no representations as to the accuracy or completeness of digital a. data files as they relate to Drawings.
 - Digital Data Software Program: Drawings are available in DWG or Revit. b.
 - Digital data files will be provided in the software and format that is used to prepare the Contract Documents. Translations to different programs or modifications to the drawing setup will be the responsibility of the Contractor.
 - d. Contractor shall execute a data licensing agreement in the form of Agreement included in this Project Manual.

1.6 PROJECT WEB SITE

- Use Construction Manager's Project Web site for purposes of hosting and managing project A. communication and documentation until Final Completion. Project Web site shall include the following functions:
 - 1. Project directory.
 - Project correspondence. 2.

CUIMC - Interventional

- 3. Meeting minutes.
- 4. Contract modifications forms and logs.
- 5. RFI forms and logs.
- 6. Task and issue management.
- 7. Photo documentation.
- 8. Schedule and calendar management.
- 9. Submittals forms and logs.
- 10. Payment application forms.
- 11. Drawing and specification document hosting, viewing, and updating.
- 12. Online document collaboration.
- 13. Reminder and tracking functions.
- 14. Archiving functions.
- 15.
- B. On completion of Project, provide one complete archive copy(ies) of Project Web site files to Owner and to Architect in a digital storage format acceptable to Architect.
- C. Provide one of the following Project Web site software packages under their current published licensing agreements:
 - 1. Autodesk, BIM 360 Docs.
 - 2. Autodesk, Constructware.
 - 3. Newforma, Construct Ex.
 - 4. Procore Technologies.
 - 5.
- D. Contractor, subcontractors, and other parties granted access by Contractor to Project Web site shall execute a data licensing agreement in the form of Agreement included in this Project Manual.

1.7 PROJECT MEETINGS

- A. General: Construction Manager will schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
 - Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 - 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 - 3. Minutes: Record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.
 - 4. Notification: Inform participants three days prior to meetings not regularly scheduled.

CUIMC - Interventional Radiology Tarrytown, New York

- B. Preconstruction Conference: Construction Manager will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect.
- C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.
 - 1. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- D. Project Closeout Conference: Construction Manager will schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 90 days prior to the scheduled date of Substantial Completion.
 - 1. Conduct the conference to review requirements and responsibilities related to Project closeout.
 - 2. Attendees: Authorized representatives of Owner, Owner's Commissioning Authority, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
- E. Progress Meetings: Construction Manger will conduct progress meetings at regular intervals.
 - 1. Coordinate dates of meetings with preparation of payment requests.
 - 2. Schedule Updating: Comply with requirements in Section 013200 "Construction Progress Documentation".

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION