

Section	Submittal Group	Article	Description
01 33 23			<b>THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS</b>
<b>DIVISION 01</b>			
01 32 16.15	1	1.5	Complete Project Schedule Submittal
01 57 19	1	1.4.A.1	Environmental Protection Plan
01 74 19	1	1.5.B	Demolition Debris Management Plan
		1.5.C	Designated Manager
		1.5.D	Monthly Summary
01 91 00	1	1.13.A	Preliminary Commissioning Plan
	2	1.13.B	Final Commissioning Plan
	1	1.13.C	Systems Functional Performance Test Procedure
	1	1.13.D	Pre-Functional Checklists
	3	1.13.E	Test and Inspection Reports
		1.13.F	Corrective Action Documents
	4	1.13.G	Preliminary Commissioning Report
	5	1.13.H	Final Commissioning Report
	1	1.13.I	Data for Commissioning
<b>DIVISION 05</b>			
05 50 00	1	1.3.B	Shop Drawings: Each item specified, showing complete detail, location in the project, material and size of components, method of joining various components and assemblies, finish, and location, size and type of anchors
		1.3.C.1	Manufacturer's Certificates: Anodized finish as specified
		1.3.C.2	Manufacturer's Certificates: Live load designs as specified
		1.3.D	Design Calculations for specified live loads including dead loads
		1.3.E	Furnish setting drawings and instructions for installation of anchors to be preset into concrete and masonry work, and for the positioning of items having anchors to be built into concrete or masonry construction
<b>DIVISION 06</b>			
06 10 00	1	1.3.B	Shop Drawings: Shop Drawings showing framing connection details, fasteners, connections and dimensions.
		1.3.C.1	Manufacturer's Literature and Data: Lumber, Hardware, and Adhesives
		1.3.C.2	Manufacturer's Literature and Data: Wood preservative treatment from chemical treatment manufacturer and certification from treating plants that treated materials comply with requirements. Indicate typ of preservative used and net amount of preservative retained.
		1.3.C.3	Manufacturer's Literature and Data: Fire retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.
		1.3.C.4	Manufacturer's Literature and Data: Products receiving a waterborne treatment, submit statement that moisture content of treated materials was reduced to levels specified before shipment to project site.
		1.3.D	Manufacturer's Certificate for unmarked lumber
<b>DIVISION 07</b>			
07 21 13	1	1.3.B.1	Manufacturer's Literature and Data: Insulation, each type used
		1.3.B.2	Manufacturer's Literature and Data: Adhesive, each type used
		1.3.B.3	Manufacturer's Literature and Data: Tape
		1.3.C	Certificates: Stating the type and thickness
		1.6.B.1	Product Data: Asphalt and adhesive materials, each type
		1.6.B.2	Product Data: Roofing cement, each type
		1.6.B.3	Product Data: Roof insulation, each type
		1.6.B.4	Product Data: Substrate board, each type
		1.6.B.5	Product Data: Cover board, each type
		1.6.B.6	Product Data: Fastening requirements
		1.6.B.7	Product Data: Insulation span data for flutes of metal decks

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01 33 23			<b>THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS</b>
07 22 00	1	1.6.C	Shop Drawings: Include plans, sections, details, and attachments
		1.6.C.1	Shop Drawings: Nailers, cants, and terminations
		1.6.C.2	Shop Drawings: Layout of insulation showing slopes, tapers, penetration, and edge conditions
		1.6.D.1	Certificates: Indicating type, thermal conductance, and minimum and average thickness of insulation.
		1.6.D.2	Certificates: Indicating materials and method of application of insulation system meet the requirements of FM Approvals for specified roofing system.
		1.6.E	Laboratory Test Reports: Thermal Values of Insulation Products
07 54 23	1	1.6.B.1	Product Data: Adhesive materials
		1.6.B.2	Product Data: Membrane sheet roofing and flashing membrane
		1.6.B.3	Product Data: Roofing cement
		1.6.B.4	Product Data: Roof walkway
		1.6.B.5	Product Data: Fastening requirements
		1.6.B.6	Product Data: Application instructions
		1.6.C.1	Samples: Nails and Fasteners, each type
		1.6.D	Shop Drawings: Include plans, sections, details, and attachments
		1.6.D.1	Shop Drawings: Base flashings and terminations
		1.6.E	Warranty: As specified
	1.6.F	Documentation of supervisors' and inspectors' qualifications	
	1.6.G	Field reports of roofing inspecting	
	1.6.H	Temporary protection plan	
	2	1.6.I.1	Contract close-out submittals: Maintenance manuals
1.6.I.2		Contract close-out submittals: Warranty signed by installer and manufacturer	
07 60 00	1	1.5.B.1	Shop Drawings: For all specified items, including: Copyings on equipment supports
07 72 00	1	1.4.B	Shop Drawings: Each item specified showing design, details of construction, installation and fastenings
		1.4.C	Manufacturer's Literature and Data: Each item specified
		1.4.D	Certificates: Stating that aluminum has been given specified thickness of anodizing
07 84 00	1	1.3.B	Installer qualifications
		1.3.C	Inspector qualifications
		1.3.D	Manufacturer's Literature, Data, and Installation Instructions for types of firestopping and smokestopping used
		1.3.E	List of FM, UL, or WH classification number of systems installed
		1.3.F	Certified laboratory test reports for ASTM E814 tests for systems not listed by FM, UL, or WH proposed for use
07 92 00	1	1.5.B	Manufacturer's installation instructions for each product used
		1.5.C	Cured samples of exposed sealants for each color
		1.5.D.1	Manufacturer's Literature and Data: Primers
		1.5.D.2	Manufacturer's Literature and Data: Sealing compound, each type, including compatibility when different sealants are in contact with each other
		1.5.E	Manufacturer warranty
<b>DIVISION 08</b>			
08 31 13	1	1.3.B	Shop Drawings: Access doors, each type, showing construction, location, and installation details
		1.3.C	Manufacturer's Literature and Data: Access doors, each type
<b>DIVISION 09</b>			
09 22 16	1	1.4.B.1	Manufacturer's Literature and Data: Studs, runners, and accessories
		1.4.B.2	Manufacturer's Literature and Data: Screws, clips, and other fasteners

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01 33 23			<b>THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS</b>
		1.4.C.1	Shop Drawings: Typical metal stud construction system including details around openings and corner details
09 29 00	1	1.4.B.1	Manufacturer's Literature and Data: Corner bead and edge trim
		1.4.B.2	Manufacturer's Literature and Data: Finishing materials
		1.4.B.3	Manufacturer's Literature and Data: Laminating adhesive
		1.4.B.4	Manufacturer's Literature and Data: Gypsum board, each type
		1.4.C.1	Shop Drawings: Typical gypsum board installation, showing corner details, edge trim details and the like
		1.4.C.2	Shop Drawings: Typical sound rated assembly, showing treatment at perimeter of partitions and penetrations at gypsum board
		1.4.C.3	Shop Drawings: Typical shaft wall assembly
		1.4.C.4	Shop Drawings: Typical fire rated assembly and column fireproofing, indicating details of construction same as that used in fire rating test
		1.4.D.1	Samples: Corner bead
		1.4.D.2	Samples: Edge trim
		1.4.D.3	Samples: Control joints
		1.4.E	Test Results: Sound rating test
		1.4.F	Certificates: Certify that gypsum board types, gypsum backing board types, cementitious backer units, and joint treating materials do not contain asbestos material.
09 91 00	1	1.3.C	Manufacturer's Literature and Data: Before work is started, or sample panels are prepared, submit manufacturer's literature, the current Master Painters Institute (MPI) "Approved Product List" indicating brand label, product name and product code as of the date of contract award, will be used to determine compliance with the submittal requirements of this specification. The Contractor may choose to use subsequent MPI "Approved Product List", however, only one list may be used for the entire contract and each coating system is to be from a single manufacturer. All coats on a particular substrate must be from a single manufacturer. No variation from the MPI "Approved Product List" where applicable is acceptable.
	2	1.3.D.1	Sample Panels: After painters' materials have been approved and before work is started submit sample panels showing each type of finish and color specified
		1.3.D.2	Sample Panels: Panels to show color: Composition board, 100 by 250mm (4 inch by 10 inch)
		1.3.D.3.a	Sample Panels: Attach labels to panel stating the following: Federal Specification Number or manufacturers name and product number of paints used
		1.3.D.3.b	Sample Panels: Attach labels to panel stating the following: Specification code number specified in Section 09 06 00, SCHEDULE FOR FINISHES
		1.3.D.3.c	Sample Panels: Attach labels to panel stating the following: Product Type and Color
		1.3.D.3.d	Sample Panels: Attach labels to panel stating the following: Name of Project
		1.3.D.4	Sample Panels: Strips showing not less than 50 mm (2 inch) wide strips of undercoats and 100 mm (4 inch) wide strip of finish coat
		1.3.E	Sample of identity markers if used
		1.3.F.1	Manufacturer's Certificates identifying that Manufacturer's paint substituted for Federal Specification paints meets or exceeds performance of paint specified
		1.3.B.1	Manufacturer's Literature and Data: Description of each product
		1.3.B.2	Manufacturer's Literature and Data: Application and installation instructions
		1.3.B.3	Manufacturer's Literature and Data: Maintenance instructions

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01 33 23			<b>THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS</b>
09 97 33.10	1	1.3.C	Certificates certifying that the coating supplied is the same, with manufacturing tolerances, as the coating tested
		1.3.D	Sustainability Information
		1.3.E	Samples
		1.3.F	Shop Drawings
		1.3.G	Certifications and Approval
		1.3.H	Warranty Sample
<b>DIVISION 13</b>			
13 05 41	1	1.4.A.1	Submit a coordinated set of equipment anchorage drawings prior to installation including: Description, layout, and location of items to be anchored or braced with anchorage or brace points noted and dimensioned
		1.4.A.2	Submit a coordinated set of equipment anchorage drawings prior to installation including: Details of anchorage or bracing at large scale with all members, parts brackets shown, together with all connections, bolts, welds etc. clearly identified and specified
		1.4.A.3	Submit a coordinated set of equipment anchorage drawings prior to installation including: Numerical value of design seismic brace loads
		1.4.A.4	Submit a coordinated set of equipment anchorage drawings prior to installation including: For expansion bolts, include design load and capacity if different from those specified
		1.4.B.1	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Single-line piping diagrams on a floor-by-floor basis. Show all suspended piping for a given floor on the same plain
		1.4.B.2	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Type of pipe (Copper, steel, cast iron, insulated, non-insulated, etc.)
		1.4.B.3	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Pipe contents
		1.4.B.4	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Structural framing
		1.4.B.5	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Location of all gravity load pipe supports and spacing requirements
		1.4.B.6	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Numerical value of gravity load reactions
		1.4.B.7	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Location of all seismic bracing

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01 33 23			<b>THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS</b>
		1.4.B.8	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Numerical value of applied seismic brace loads
		1.4.B.9	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Type of connection (Vertical support, vertical support with seismic brace etc.)
		1.4.B.10	Submit prior to installation, a coordinated set of bracing drawings for seismic protection of piping, with data identifying the various support to-structure connections and seismic bracing structural connections, include: Seismic brace reaction type (tension or compression): Details illustrating all support and bracing components, methods of connections, and specific anchors to be used
		1.4.C.1	Submit prior to installation, bracing drawings for seismic protection of suspended ductwork and suspended electrical and communication cables, include: Details illustrating all support and bracing components, methods of connection, and specific anchors to be used
		1.4.C.2	Submit prior to installation, bracing drawings for seismic protection of suspended ductwork and suspended electrical and communication cables, include: Numerical value of applied gravity and seismic loads and seismic loads acting on support and bracing components
		1.4.C.3	Submit prior to installation, bracing drawings for seismic protection of suspended ductwork and suspended electrical and communication cables, include: Maximum spacing of hangers and bracing
		1.4.C.4	Submit prior to installation, bracing drawings for seismic protection of suspended ductwork and suspended electrical and communication cables, include: Seal of registered structural engineer responsible for design
		1.4.D	Submit design calculations prepared and sealed by the registered structural engineer specified above in paragraph 1.3A
		1.4.E	Submit for concrete anchors, the appropriate ICBC evaluation reports, OSHPD pre-approvals, or lab test reports verifying compliance with OSHPD Interpretation of Regulations 28-6
<b>DIVISION 21</b>			
211313	1	1.4.A	Shop Drawings
		1.4.A.1	Qualifications
		1.4.A.3	Manufacturer's Data Sheets
		2.1	Piping and Fittings
		2.4	Sprinklers
	2.9	Pipe Hangers, Support and Restraint of System Piping	
	2	1.4.A.4.a	As-Built Drawings
		1.4.A.4.b	Material and Testing Certificate
<b>DIVISION 23</b>			
230511	1	1.3.F	Welding Certificates
		1.3.G.1	Equipment Installation Instructions
		1.3.G.2	Layout Drawings
		1.3.H	List of Previous Installations
		1.4.A	Shop Drawings
		1.4.D	Confirmation of Equipment Coordination
		1.4.E	Interdependant Items
		1.4.F	Complete Systems Layout / Coordination Drawings

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
		1.4.G	Manufacturer's Literature and Data
		1.4.H	Maintenance Data and Operating Instructions
		1.4.I	Approved Equipment Submittals to T&B Contractor
230512	1	1.3.A	Shop Drawings
		1.3.C	Manuals
		1.3.D	Certifications
		1.3.E	Systems Readiness Report
230541	1	1.4.A	Shop Drawings
		1.4.B	Vibration Isolators
		1.4.C	Load Calculations for selections
230593	1	1.3.C	TAB Equipment Calibration History
		1.4.A	Shop Drawings
		1.4.B	TAB Agency Qualifications
		1.4.C	Complete Set of Applicable AABC or NEBB Publications
	2	1.4.D.1	Systems Inspection Report
	3	1.4.D.2	Systems Readiness Report
	4	1.4.D	Intermediate TAB Report
	5	1.4.E	Final TAB Report
230711	1	1.4.A	Shop Drawings
		2.6	Flexible Elastomeric Insulation
		2.9	Insulation Facings and Jackets
		2.12	Adhesive, Mastic, Cements
		2.14	Reinforcement and Finishes
		2.15	Firestopping Material
		2.16	Flame and Smoke
230800	1	1.6.A	List of Submittals Required by CxA
230923	1	1.4.A.3	List of Similar Projects from Controls Contractor
		1.4.A.5	Evidence of Experienced Personnel from Controls Contractor
		1.7.A	Shop Drawings
		1.7.B.1	Wiring Diagrams and Points Lists
		1.7.B.2	Diagram of Terminal Strips
		1.7.B.3	Catalog Cut sheets of All DDC Equipment
		1.7.B.4	Color Prints of Proposed Graphics
		1.7.B.5	Schematic Wiring Diagrams
		1.7.B.6	Construction details
		1.7.D	Software Licenses
		2.8	Bacnet Devices
		2.11	Sensors
		2.12	Control Cables
		2.13	Thermostats and Humidistats
	2	1.7.E	As-built Control Drawings
	3	1.7.F	O&M Manuals
		1.7.G	Performance Report Prior to Final Inspection
232300	1	1.4.B	Shop Drawings
		1.4.B.1.a	Tubing and Fittings
		1.4.B.1.b	Valves
		1.4.B.1.c	Strainers
		1.4.B.1.d	Moisture-Liquid Indicators
		1.4.B.1.e	Filter Driers
		1.4.B.1.f	Pipe and Equipment Supports
		1.4.B.1.g	Refrigerant and Oil
		1.4.B.1.h	Pipe/conduit Roof Penetration Cover
		1.4.B.1.i	Soldering and Brazing Materials
		1.4.C	Welding Certificates
		1.4.D	Refrigerant Valves and Accessories Design Manual
	2	1.4.B.2	Layout of Refrigerant Piping and Accessories
238100	1	1.4.A	Shop Drawings
		1.4.B	Manufacturer's Literature and Data
		1.4.C	ARI Certification
		1.4.D	EER and COP Performance Ratings
		2.3	Split System Air Conditioners
	2	1.4.E	O&M Manuals
		1.4.F	Systems Readiness Report

MASTER SUBMITTAL LIST

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
<b>DIVISION 26</b>			
26 05 19	1	2.1	Electrical ratings and insulation of conductors
		2.2	Splices
		2.3	Connectors and Terminations
		2.4	Control Wiring
26 05 26	1	2.1	Grounding and Bonding Conductors
		2.4	Ground Connections
		2.5	Equipment Rack and Cabinet Ground Bars
		2.6	Ground Terminal Blocks
		2.7	Grounding Bus
26 05 33	1	1.4.A.1.a	Conduit Penetrations through structure.
		2.1.C	Conduit Fittings
26 05 33	2	1.4.A.2	Certifications
26 09 23	1	2.8	Indoor Vacancy Sensor Switch
26 22 00	1	2.1	General Purpose Dry-Type Transformers
26 24 16	1	2.1	General Requirements
		2.2	Enclosures and Trims
		2.3	Molded Case Circuit Breakers for Panelboards
26 27 26	1	2.1	Receptacles
		2.4	Wall Plates
26 29 21	1	2.1	Fused Switches Rated 600 Amperes and Less
		2.2	Unfused Switches Rated 600 Amperes and Less
26 51 00	1	2.1	Lighting Fixtures
		2.10	LED Light Fixtures
27 05 11	1	1.7.B	Parts List
		1.7.D.1	OEM Certification
		1.7.D.2	Wiring and Connection Certification
		1.7.E	Installer Qualifications
		1.7.H	Test Equipment List
27 05 26	1	2.1	Components
27 05 33	1	2.1	Material
27 15 00	1	2.1	Equipment and Materials
		2.2	Distribution Equipment and Systems
<b>DIVISION 28</b>			
28 05 13	1	2.1	General
		2.3	UTP
		2.11	Low-Voltage Control Cable
		2.12	Control-Circuit Conductors
		2.14	Identification Products
		2.16	Wire lubricating compound
28 05 28 33		2.2	Conduit
		2.4	Conduit Fittings
		2.6	Outlet, Junction, and Pull Boxes
		2.11	Sleeves for Raceways
28 13 00	1	1.4	Shop Drawings, Group Technical Data Packages
		2.10	Card Readers
		2.11	Key Pads
		2.13	System Sensors and Related Devices
		2.17	Interfaces
		2.22	Wires and Cables
28 23 00	1	2.2	Cameras
		2.11	Recording Devices
		2.12	Wires and Cables