

MASTER SUBMITTAL LIST

#12030

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 01			
01 00 00	1	1.29	Construction Sign
		1.30	Safety Sign
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 81 11	1	1.5.A	Sustainable Design Submittals
		1.5.B	Project Materials Cost Data
	2	1.5.F	Sustainable Design Progress Reports
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
DIVISION 03			
03 30 00	1	1.6.B	Shop Drawings: Reinforcing Steel, Complete
		1.6.C	Mill Test Reports: Concrete and Steel
		1.6.D	Manufacturer's Certificates: Abrasive Aggregates, Lightweight aggregate for structural concrete, air-entraining admixture, chemical admixtures including chloride ion content, waterproofing paper for curing concrete, liquid membrane-forming compounds for curing concrete, non-shrinking grout, liquid hardener, waterstops, expansive joint filler, and adhesive binder
		1.6.E	Qualifications for Testing Agency for Concrete Mix Design
		1.6.F	Test Report for Concrete Mix Designs, Trial mixes including water cement, fly ash, ratio curves, concrete mix ingredients, and admixtures
DIVISION 04			
04 05 13	1	1.5.B.2.a	Certification that Portland Cement meets specifications
		1.5.B.2.b	Certification that Masonry Cement meets specifications
		1.5.B.2.c	Certifications that Mortar Cement meets specifications
		1.5.B.2.d	Certification that Hydrated Lime meets specifications
		1.5.B.2.e	Certification that Fine Aggregate (sand) meets specifications
		1.5.B.2.g	Certification that Color Admixture meets specifications
		1.5.C.1	Laboratory Test Reports: Mortar, each type
		1.5.C.2	Laboratory Test Reports: Admixtures
		1.5.D.1	Manufacturer's Literature and Data: Cement, each kind
		1.5.D.2	Manufacturer's Literature and Data: Hydrated Lime
		1.5.D.3	Manufacturer's Literature and Data: Admixtures
		1.5.D.4	Manufacturer's Literature and Data: Liquid Acrylic Resin
		2.10.B.2	Lab test report showing effect of proposed admixture on strength, water retention, and water repellency of mortar
04 05 16	1	1.4.B.1.a	Certification that Portland Cement meets specifications
		1.4.B.1.b	Certification that Masonry Cement meets specifications
		1.4.B.1.c	Certification that Grout meets specifications
		1.4.B.1.d	Certification that Hydrated Lime meets specifications
		1.4.B.1.e	Certification that Fine Aggregate (sand) meets specifications
		1.4.B.1.f	Certification that Course Aggregate for Grout meets specifications
		1.4.C	Laboratory Test Reports for Grout, each type, and admixtures
		1.4.D.1	Manufacturer's Literature and Data for Cement, each type
		1.4.D.2	Manufacturer's Literature and Data for Hydrated Lime
		1.4.D.3	Manufacturer's Literature and Data for Admixtures
		1.4.D.4	Manufacturer's Literature and Data for Liquid Acrylic Resin

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
04 20 00	1	1.3.B.1	Samples: Face brick, sample panel
		1.3.B.2	Samples: CMU
		1.3.B.3	Samples: Anchors, and Ties, one each and joint reinforcing
	2	1.3.C.1	Shop Drawings: special masonry shapes
		1.3.C.2	Shop Drawings: Drawings, showing reinforcement, applicable dimensions and methods of hanging soffit or lintel masonry and reinforcing masonry for embedment of anchors for hung fixtures
		1.3.C.3	Shop Drawings: Concrete masonry units for typical window and door openings, and, for special conditions as affected by structural conditions
		1.3.C.4	Shop Drawings: Submit shop drawings for fabrication, bending, and placement of reinforcing bars
	3	1.3.D.1	Certificates signed by manufacturer, including name and address of contractor, project location, and the quantity, and date or dates of shipment of delivery to which certificate applies
		1.3.D.2.a	Certification that Face Brick meets specifications
		1.3.D.2.b	Certification that Solid and load-bearing concrete masonry units, including fire-resistant rated units, meet specifications
		1.3.D.3	Testing laboratories facilities and qualifications of its principals and key personnel to perform tests specified
		1.3.E.1	Manufacturer's Literature and Data for Anchors, Ties and Reinforcement
		1.3.E.2	Manufacturer's Literature and Data for Shear Keys
		1.3.E.3	Manufacturer's Literature and Data for Reinforcing Bars
04 43 13.16	1	1.3.A	Product data
		1.3.B	Samples for Initial Selection
		1.3.C	Samples for Verification
		1.4.A	Qualification data for Installer
		1.4.B	List of materials used in construction mock-ups
		1.4.C.1	Product test reports
		1.4.C.2	Sealant compatibility and adhesion test report
	2	1.5.B	Material Mock-up
04 72 00	1	1.3.B	Samples
		1.3.C	Shop Drawings: Cast stone showing exposed faces, profiles, cross sections, anchorage, reinforcing, jointing and sizes, in addition to setting drawings with setting mark
		1.3.D	Certificates: Test results indicating that the cast stone meets specification requirements and proof of plant certification
		1.3.E	Manufacturer's test results of cast stone previously made by manufacturer
		1.3.F	Description of testing laboratories facilities and qualifications of its principals and key personnel
		1.3.G	List of Manufacturer Jobs similar in scope and completed more than 3 years ago

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 05			
05 12 00	1	1.7.B	Shop and Erection Drawings, complete
		1.7.C.1	Certificates: Structural Steel
		1.7.C.2	Certificates: Steel for all connections
		1.7.C.3	Certificates: Welding Materials
		1.7.C.4	Certificates: Shop Coat Primer Paint
		1.7.D	Welder's Qualifying Test Reports
		1.7.E	Design Calculations and Drawings for Connections
	2	1.7.F	Record Surveys
05 21 00	1	1.5.B.1	Shop and Erection Drawings: Complete Fabrication drawings including details and schedules for the fabrication and assembly of each joist
		1.5.B.2	Shop and Erection Drawings: Erection drawings showing the size and location of each joist, bridging, cross bracing, bearing details, connections, welds, bolts and bearing plates
		1.5.C	Certificates showing Steel Joist Institute compliance
		1.5.D	Design Calculations
05 31 00	1	1.4.B	Shop Drawings: Shop and erection drawings showing decking unit layout, connections to supporting members, and similar information necessary for completing installation as shown and specified, including supplementary framing, sump pans, ridge and valley plates, cant strips, cut openings, special jointing or other accessories. Show welding, side lap, closure, deck reinforcing and closure reinforcing details. Show openings required for work of other trades, including openings not shown on structural drawings. Indicate where temporary shoring is required to satisfy design criteria
		1.4.C	Manufacturer's Literature and Data: Showing steel decking section properties and specifying structural characteristics
		1.4.D	Certification: For each type and gauge of metal deck supporting concrete slab or fill, furnish certification of the specified fire ratings. Certify that the units supplied are U.L. listed as a "Steel Floor and Form Unit"
	2	1.4.E	Insurance Certification: Assist the Government in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
05 36 00	1	1.4.B	Shop Drawings: Shop and erection drawings showing decking unit layout, connections to supporting members, and information necessary to complete the installation as shown and specified, including supplementary framing, cant strips, cut openings, special jointing or other accessories. Show welding, side lap, closure, deck reinforcing and closure reinforcing details. Show openings required for work of other trades, including openings not shown on structural drawings. Indicate where temporary shoring is required to satisfy design criteria
		1.4.C	Manufacturer's Literature and Data: Showing steel decking section properties and specifying structural characteristics as specified herein
		1.4.D.1	Manufacturer's Written Recommendations for shape of decking section to be used
		1.4.D.2	Manufacturer's Written Recommendations for cleaning of steel decking prior to concrete placement
		1.4.E	Test Report: Establishing structural characteristics of composite concrete and steel decking system
		1.4.F	Test Report - Stud base qualification
		1.4.G	Welding power setting recommendation by shear stud manufacturer
		1.4.H	Shear Stud Layouts: Submit drawings showing the number, pattern, spacing and configuration of the shear studs for each beam and girder
		1.4.I	Certification: For each type and gauge of metal deck supporting concrete slab or fill, furnish certification of the specified fire ratings. Certify that the units supplied are U.L. listed as a "Steel Floor and Form Unit"
05 40 00	1	1.4.B	Shop Drawings: Shop and erection drawings showing steel unit layout, connections to supporting members, and information necessary to complete installation as shown and specified
		1.4.C	Manufacturer's Literature and Data: Showing steel component sections and specifying structural characteristics
		1.4.D	For cold-formed metal framing indicated to comply with certain design loadings, include structural analysis data sealed and signed by the qualified professional engineer who was responsible for its preparation
05 50 00	1	1.3.B	Manufacturer's Literature and Data for grating, each type; floor plate; manhole covers and safety nosing
		1.3.C.1	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.2	Shop Drawings: Mark items requiring field assembly for erection identification and furnish erection drawings and instructions
		1.3.C.3	Shop Drawings: Provide templates and rough-in measurements as required
		1.3.D.1	Manufacturer's Certificates: Anodized finish as specified
		1.3.D.2	Manufacturer's Certificates: Live load designs as specified
		1.3.E	Design Calculations for specified live loads including dead loads
05 51 00	1	1.3.F	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
		1.3.B	Shop Drawings: Show design, fabrication details, installation, connections, material, and size of members

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 06			
06 10 00	1	1.3.B	Shop Drawings: Shop Drawings showing framing connection details, fasteners, connections and dimensions.
06 20 00	1	1.3.B.1	Shop Drawings: Millwork items - Half full size scale for sections and details 1:50 (1/4-inch) for elevations and plans
		1.3.B.2	Shop Drawings: show construction and installation
		1.3.C	Samples: Plastic laminate finished plywood
		1.3.D.1	Certificates: Indicating fire retardant treatment of materials meet the requirements specified
		1.3.D.2	Certificates: Indicating moisture content of materials meet the requirements specified
		1.3.E	List of acceptable sealers for Fire Retardant and preservative treated materials
		1.3.F.1	Manufacturer's Literature and Data: Finish hardware
DIVISION 07			
07 11 13	1	1.2.B	Manufacturer's Literature and Data: Product Description and Application Instructions
07 13 52	1	1.3.B.1	Manufacturer's Literature and Data: Bituminous Sheet
		1.3.B.2	Manufacturer's Literature and Data: Primer
		1.3.B.3	Manufacturer's Literature and Data: Mastic
		1.3.B.4	Manufacturer's Literature and Data: Protection Material: Temporary and Permanent.
		1.3.B.5	Manufacturer's Literature and Data: Printed installation instructions for conditions specified
		1.3.C.1	Certificates: Indicating bituminous sheet manufacturer's approval of primer, and roof cement
		1.3.C.2	Certificates: Indicating bituminous sheet waterproofing manufacturer's qualifications as specified
		1.3.C.3	Certificates: Approval of installer by bituminous sheet manufacturers
		1.3.C.4	Certificates: Water Test Report
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, thickness and "R" value (thermal resistance) of the insulation to be installed

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
07 22 00	1	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
		1.6.B.6	Product Data: Fastening Requirements
		1.6.B.7	Product Data: Insulation Span Data for flutes of Metal Decks
		1.6.D.1	Shop Drawings: Include plans, sections, details, and attachments for nailers, cants, and terminations
		1.6.D.2	Shop Drawings: Include plans, sections, details, and attachments for layout of insulation showing slopes, tapers, penetration, and edge conditions
		1.6.E.1	Samples: Roof Insulation, each type
		1.6.E.2	Samples: Nails and Fasteners, each type
		1.6.F.1	Certificates: Indicating type, thermal conductance, and minimum and average thickness of insulation
		1.6.F.2	Certificates: Indicating materials and method of application of insulation system meet the requirements of FM Approvals for specified roofing system
		1.6.G	Laboratory Test Reports: Thermal Values of Insulation Products
		1.6.H	Layout of tapered roof system showing units required
		1.6.I	Documentation of supervisors' and inspectors' qualifications
07 42 13.23	1	1.3.A	Product Data
		1.3.B	Shop Drawings
		1.3.C	Samples for Initial Selection
		1.3.D	Samples for Verification
		1.4.A	Qualification data for Installer
		1.4.B	Product test reports
		1.4.C	Field Quality-Control reports
		1.4.D	Sample Warranties
	2	1.5.A	Maintenance Data: For metal composite material panels to include in maintenance manuals.
07 53 23	1	1.4.B	Applicator's approval certification by manufacturer
		1.4.C	Shop Drawings: Sheet membrane layout, fastener layout, spacing requirements, termination details
		1.4.D	Shop Drawings: Sheet membrane layout, fastener layout, spacing requirements, termination details
		1.4.E	Samples
07 60 00	1	1.5.B.1	Shop Drawings: Flashings
		1.5.C.1	Manufacturer's Literature and Data: Two-Piece Counterflashing
		1.5.C.2	Manufacturer's Literature and Data: Thru-wall Flashing
		1.5.D	Certificates: Indicating compliance with specified finishing requirements, from applicator and contractor
07 71 00	1	1.4.C	Shop Drawings
		1.4.D	Manufacturer's Literature
07 84 00	1	1.3.B	Manufacturer's Literature, Data, and Installation Instructions for types of firestopping and smokestopping used
		1.3.C	List of UL, WH or FM classification number of systems installed
		1.3.D	Certified Lab Reports for ASTM E814 tests for systems not listed by FM, UL or WH proposed for use
07 92 00	1	1.4.B	Manufacturer's Installation Instructions for each product used
		1.4.C	Cured samples of exposed sealants for each color where required to match adjacent material
		1.4.D.1	Manufacturer's Literature and Data: Caulking compound
		1.4.D.2	Manufacturer's Literature and Data: Primers
		1.4.D.3	Manufacturer's Literature and Data: Sealing compound, each type, including compatibility when different sealants are in contact with each other

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 08			
08 11 13	1	1.4.B	Manufacturer's Literature and Data: Fire rated doors and frames, showing conformance with NFPA 80 and Underwriters Laboratory, Inc., or Intertek Testing Services or Factory Mutual fire rating requirements
08 14 00	1	1.3.B.2	Samples: Veneer samples
		1.3.C.1	Shop Drawings: Show every door in project and schedule location in building. Indicate type, grade, finish and size; include detail of glazing and pertinent details. Provide information concerning specific requirements not included in the manufacturer's literature and data submittal
		1.3.E.1	Laboratory Test Reports: Screw holding capacity test report in accordance with WDMA T.M.10
		1.3.E.2	Laboratory Test Reports: Split resistance test report in accordance with WDMA T.M.5
		1.3.E.3	Laboratory Test Reports: Cycle/Slam test report in accordance with WDMA T.M.7
		1.3.E.4	Laboratory Test Reports: Hinge-Loading test report in accordance with WDMA T.M.8
08 17 10	1	1.5.A	Shop Drawings
		1.5.B	Provide for each door an frame location; frame type, profile, and installation details, items of finish hardware accessories, finishes, degree of opening and electrical rough-in requirements. Submit required templates to door and frame manufacturers to enable proper and accurate sizing and locations of hardware
	2	1.5.C	Samples
	3	1.5.D	Owner's Manual, instruction sheets and installation
08 31 13	1	1.3.B	Shop Drawings
		1.3.C	Manufacturer's Literature and Data
08 33 00	1	1.5.B.1	Shop Drawings: Each type of door showing details of construction, accessories and hardware, electrical and mechanical items supporting brackets for motors, location, and ratings of motors, and safety devices.
		1.5.B.2	Shop Drawings: Wiring diagrams for motors and controls, including wiring diagram for door, showing electrical interlock of motor with manually operated dead lock, electrical rough-in
		1.5.C.1	Manufacturer's Literature and Data: Brochures or catalog cuts, each type door
		1.5.C.2	Manufacturer's Literature and Data: Manufacturer's Installation Procedures and Instructions
		1.5.C.3	Manufacturer's Literature and Data: Maintenance instructions, parts list
		1.5.D.1	Certificates: Attesting doors, anchors and hardware will withstand the horizontal loads specified

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
08 33 10	1	1.4.B.1	Shop Drawings: Each type of overhead security screen door showing details of construction, accessories and hardware, electrical and mechanical items supporting brackets for motors, location, and ratings of motors, and safety devices
		1.4.B.2	Shop Drawings: Wiring diagrams for motors and controls, including wiring diagram for overhead security screen door, showing electrical interlock of motor with manually operated dead lock, electrical rough-in
		1.4.C.1	Manufacturer's Literature and Data: Brochures or catalog cuts, each type overhead security screen door
		1.4.C.2	Manufacturer's Literature and Data: Manufacturer's Installation Procedures and Instructions
		1.4.C.3	Manufacturer's Literature and Data: Maintenance instructions, parts list
		1.4.D.1	Certificates: Attesting overhead security screen doors, anchors and hardware will withstand the horizontal loads specified
08 41 13	1	1.3.B	Shop Drawings: (1/2 full scale) showing construction, anchorage, reinforcement, and installation details
		1.3.C.2	Manufacturer's Literature and Data: Storefront construction
		1.3.D.3	Samples: Two samples of organic finish of each color specified
		1.3.E.2	Manufacturer's Certificates: Indicating manufacturer's qualifications specified
08 71 00	1	1.6.B	Hardware Schedule
		1.6.C.1	Samples and Manufacturer's Literature: Samples: All hardware items (proposed for the project) that have not been previously approved by Builders Hardware Manufacturers Association shall be submitted for approval. Tag and mark all items with manufacturer's name, catalog number and project number
		1.6.D	Certificate of Compliance and Test Reports: Submit certificates that hardware conforms to the requirements specified herein. Certificates shall be accompanied by copies of reports as referenced. The testing shall have been conducted either in the manufacturer's plant and certified by an independent testing laboratory or conducted in an independent laboratory, within four years of submittal of reports for approval
08 80 00	1	1.5.B.2	Manufacturer's Certificates: Certificate on shading coefficient
		1.5.B.3	Manufacturer's Certificates: Certificate on "U" value when value is specified
		1.5.C	Warranty
		1.5.D.1	Manufacturer's Literature and Data: Glass, each kind required
		1.5.D.2	Manufacturer's Literature and Data: Insulating glass units
		1.5.D.4	Manufacturer's Literature and Data: Elastic compound for metal sash glazing
		1.5.D.5	Manufacturer's Literature and Data: Putty
		1.5.D.6	Manufacturer's Literature and Data: Glazing cushion
		1.5.D.7	Manufacturer's Literature and Data: Sealing compound
		1.5.E	Samples
		1.5.F	Preconstruction Adhesion and Compatibility Test Report

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 09			
09 22 16	1	1.4.B.2	Manufacturer's Literature and Data: Hanger inserts
		1.4.B.3	Manufacturer's Literature and Data: Channels (Rolled steel)
		1.4.B.4	Manufacturer's Literature and Data: Furring Channels
		1.4.B.5	Manufacturer's Literature and Data: Screws, clips and other fasteners
		1.4.C.1	Shop Drawings: Typical ceiling suspension system
		1.4.C.2	Shop Drawings: Typical furring 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	Shop Drawings: Typical gypsum board installation, showing corner details, edge trim details and the like
		1.4.D.1	Samples: Corner bead
		1.4.D.2	Samples: Edge trim
		1.4.D.3	Samples: Control joints
09 30 13	1	1.3.B.1	Samples: Base Tile
		1.3.B.5	Samples: Porcelain Tile
		1.3.B.6	Samples: Wall tile, each color, size and pattern
		1.3.B.7	Samples: Trim shapes, bullnose cap and cove including bullnose cap and base pieces at internal and external corners of vertical surfaces, each type, color, and size, and specialty tiles
		1.3.C.1	Product Data: Ceramic and porcelain tile, marked to show each type, size, and shape required
		1.3.C.3	Product Data: Cementitious backer unit
		1.3.C.7	Product Data: Reinforcing Tape
		1.3.C.8	Product Data: Leveling compound
		1.3.C.9	Product Data: Latex Portland cement mortar and grout
		1.3.C.13	Product Data: Waterproofing isolation membrane
		1.3.C.14	Product Data: Fasteners
		1.3.D.1	Certification: Master grade, ANSI A137.1
		1.3.D.2.d	Certification that Cementitious backer units comply with specification requirements
		1.3.D.2.g	Certification that Reinforcing tape complies with specification requirements
		1.3.D.2.h	Certification that Latex Portland cement mortar and grout comply with specification requirements
		1.3.D.2.i	Certification that Leveling compound complies with specification requirements
		1.3.D.2.k	Certification that Waterproof Isolation Membrane complies with specification requirements
09 51 00	1	1.3.B.1	Samples: Acoustical units, 6" by 6", with label indicating conformance to specification requirements
		1.3.C.1	Manufacturer's Literature and Data: Ceiling suspension system, each type, showing complete details of installation specific to this project
		1.3.C.2	Manufacturer's Literature and Data: Acoustical units, each type
		1.3.D	Manufacturer's Certificates: Acoustical units, each type, in accordance with specification requirements
09 65 13	1	1.3.B.1	Manufacturer's Literature and Data: Description of product
		1.3.B.2	Manufacturer's Literature and Data: Base material manufacturer's recommendations for adhesives
		1.3.B.3	Manufacturer's Literature and Data: Application and installation instructions
		1.3.C.1	Samples: Base: 150 mm (6 inches) long, of height and material specified
		1.3.C.4	Samples: Adhesive: Literature indicating type

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01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
09 65 19	1	1.3.B.1	Manufacturer's Literature and Data: Description of each product
		1.3.B.2	Manufacturer's Literature and Data: Resilient material manufacturer's recommendations for adhesives, underlayment, primers and polish
		1.3.B.3	Manufacturer's Literature and Data: Application and installation instructions
		1.3.C.1	Samples: Tile: 300 mm by 300 mm (12 inches by 12 inches) for each type, pattern and color
		1.3.C.2	Samples: Edge Strips: 150 mm (6 inches) long, each type
		1.3.D.1	Shop Drawings: Layout of patterns shown on the drawings and in Section 09 06 00, SCHEDULE FOR FINISHES
		1.3.D.2	Shop Drawings: Edge strip locations showing types and detail cross sections
		1.3.E.1	Test Reports: Abrasion resistance: Depth of wear for each tile type and color and volume loss of tile, certified by independent laboratory
		1.3.E.2	Test Reports: Tested per ASTM F510
09 91 00	1	1.3.B	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.
		1.3.E.1	Manufacturer's Certificates identifying that Manufacturer's paint substituted for Federal Specification paints meets or exceeds performance of paint specified
		1.3.E.2	Manufacturer's Certificates identifying that High temperature aluminum paint complies with specification requirements
		1.3.E.3	Manufacturer's Certificates identifying that Epoxy Coating complies with specification requirements
		1.3.E.4	Manufacturer's Certificates identifying that Intumescent Clear Coating or Fire Retardant Paint complies with specification requirements
		1.3.E.5	Manufacturer's Certificates identifying that Plastic Floor Coating complies with specification requirements
	2	1.3.C.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.C.2	Sample Panels: Panels to show color: Composition board, 100 by 250 by 3 mm (4 inch by 10 inch by 1/8 inch)
		1.3.C.4.a	Sample Panels: Attach labels to panel stating the following: Federal Specification Number or manufacturers name and product number of paints used
		1.3.C.4.b	Sample Panels: Attach labels to panel stating the following: Specification code number specified in Section 09 06 00, SCHEDULE FOR FINISHES
		1.3.C.4.c	Sample Panels: Attach labels to panel stating the following: Product Type and Color
		1.3.C.4.d	Sample Panels: Attach labels to panel stating the following: Name of Project
		1.3.C.5	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

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
09 97 33.10	1	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
		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
DIVISION 10			
10 14 00	1	1.4.B.1	Samples: Sign Panel, 200 mm x 250 mm (8 inches x 10 inches), with letters
		1.4.B.2	Samples: Color samples of each color, 150 mm x 150 mm (6 inches x 6 inches. Show anticipated range of color and texture
		1.4.B.3	Samples: Sample of typeface, arrow and symbols in a typical full size layout
		1.4.C.1	Manufacturer's Literature: Showing the methods and procedures proposed for the concealed anchorage of the signage system to each surface type
		1.4.C.2	Manufacturer's Literature: Manufacturer's printed specifications, anchorage details, installation and maintenance instructions
		1.4.D	Samples: Sign location plan, showing location, type and total number of signs required
		1.4.E	Shop Drawings: Scaled for manufacture and fabrication of sign types. Identify materials, show joints, welds, anchorage, accessory items, mounting and finishes
10 21 13	1	1.3.C	Manufacturer's Literature and Data
		1.3.D	Shop Drawings
		1.3.E	Manufacturer's Certificate for Zinc coating
10 22 13	1	1.4.B	Shop Drawings: Mesh partitions, showing design, construction and materials
		1.4.C	Provide layout drawings with detailed erection drawings and specifications

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
10 28 00	1	1.3.B.1	Shop Drawings: Each product specified
		1.3.B.2	Shop Drawings: Paper towel dispenser unit
		1.3.B.3	Shop Drawings: Metal framed mirrors, fillers, and design and installation of units when installed on ceramic tile wainscots and offset surfaces
		1.3.B.4	Shop Drawings: Shower Curtain rods, showing required length for each location
		1.3.B.5	Shop Drawings: Grab bars, showing design and each different type of anchorage
		1.3.B.7	Shop Drawings: Soap dish, showing anchorage
		1.3.B.8	Shop Drawings: Show material and finish, size of members, and details of construction, installation and anchorage of mop racks
		1.3.D.1	Manufacturer's Literature and Data: All accessories specified
		1.3.D.2	Manufacturer's Literature and Data: Show type of material, gages or metal thickness in inches, finishes, and when required, capacity of accessories
		1.3.D.3	Manufacturer's Literature and Data: Show working operations of spindle for toilet tissue dispensers
		1.3.D.4	Manufacturer's Literature and Data: Mop racks
		1.3.E.1	Manufacturer's Certificates: Attesting that soap dispensers are fabricated of material that will not be affected by liquid soap or aseptic detergents, PhisoHex and solutions containing hexachlorophene
		1.3.E.2	Manufacturer's Certificates: Anodized finish as specified
	2	1.3.C.1	Samples: One of each type of accessory specified
10 44 13	1	1.3.B	Manufacturer's Literature and Data: Fire extinguisher cabinet including installation instruction and rough opening required
10 51 13	1	1.2.A	Product Data: For product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for metal locker
		1.2.B.1	Shop Drawings: For metal lockers. Include plans, elevations, sections, details, and attachments to other work: Show locker trim and accessories
		1.2.B.2	Shop Drawings: For metal lockers. Include plans, elevations, sections, details, and attachments to other work: Include locker identification system and numbering sequence
		1.2.C	Samples for Verification: For metal lockers, in manufacturer's standard sizes
		1.3.A	Qualification Data: For Qualified Installer
		1.3.B	Warranty: Sample of special warranty
	2	1.4.A	Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
10 73 13	1	1.2.A.1	Product Data: For each type of product: Include styles, material descriptions, construction details, fabrication details, dimensions of individual components and profiles, hardware, fittings, mounting accessories, features, and finishes for canopies
		1.2.A.2	Product Data: For each type of product: Include rated capacities and furnished specialties and accessories
		1.2.B.1	Shop Drawings: Include plans, elevations, sections, mounting heights, and attachment details
		1.2.B.2	Shop Drawings: Detail fabrication and assembly of canopies
		1.2.B.3	Shop Drawings: Show locations for blocking, reinforcement, and supplementary structural support
		1.2.C	Samples: For each exposed product and for each color and texture specified
		1.2.D	Samples for Verification: Frame Finish: Not less than 6 inch (150 mm) lengths
		1.2.E	Product Schedule: For canopies. Use same designations indicated on Drawings
		1.2.F	Delegated-Design Submittal: For canopies
	2	1.2.G	Operation and Maintenance Data: For canopies to include in operation and maintenance manuals
DIVISION 12			
12 31 00	1	1.4.B.1	Certificates: Manufacturer's Certificate of qualifications specified and finish on casework
		1.4.B.2	Certificates: Contractor's Certificate of installer's qualifications specified
		1.4.B.3	Safety glass meets requirements of ANSI Standard Z97.1.
		1.4.C.1	Manufacturer's Literature and Data: Brochures showing name and address of manufacturer, and catalog or model number of each item incorporated into the work
		1.4.C.2	Manufacturer's Literature and Data: Manufacturer's illustration and detailed description
		1.4.C.3	Manufacturer's Literature and Data: List of deviations from contract specifications
		1.4.C.4	Manufacturer's Literature and Data: Locks, each kind
		1.4.D.1	Shop Drawings (1/2 Full Scale): Show details of casework construction, including kinds of materials and finish, hardware, accessories and relation to finish of adjacent construction, including specially fabricated items or components
		1.4.D.2	Shop Drawings (1/2 Full Scale): Fastenings and method of installation
	2	1.4.E	Samples
12 36 00	1	1.3.B	Shop Drawings
	2	1.3.C	Samples

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 13			
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
13 05 41	1	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
		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

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
		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
DIVISION 21			
21 05 11	1	1.4 B.	Manufacturer's Literature and Data
		1.4 C.	Coordination Drawings
		1.4 D 1.	Operation and Maintenance Data
		1.4 D 2.	Recommended Spare Parts Data
21 05 12	1	1.3 B	Shop Drawings
		1.3 C.	Manuals
	2	1.3 D 1.	Certifications
21 08 00	1	1.6 B.	Provide copies of all submittals to the Commissioning Agent (CxA) at same time as submitted for approval of Engineer
21 10 00	1	1.5 A.	SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES
		1.5 B.	Signed and Sealed by PE
		1.5 C.	Emergency Service Point of Contact
		1.5 D.	Manufacturer's Literature and Data
		1.5 E.	Detailed drawings in accordance with NFPA 13 - Signed and Sealed
		1.5 F.	Hydraulic calculations for each system in accordance with NFPA 13
		1.5 G.	Operation and Maintenance Data
	1.5 H.	Recommended Preventive Maintenance Schedule	

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Section	Submittal	Article	Description
01 33 23	Group		THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 22			
22 05 11	1	1.4 D.	Arrangement Drawings for Equipment Differing from that specified.
		1.4 H.	Coordination Drawings
		1.4 I. 1.	Maintenance Data and Operating Instructions
		1.4 I. 2.	Recommended Spare Parts Data
		1.4 I. 3.	Replacement drive belt list: Belt Manufacturer, model, size and style, label as single or multiple belt set.
22 05 12	1		Motor Data to be submitted with driven equipment.
		1.3 B.	Shop Drawings
		1.3 C.	Manuals
	2	1.3 D.	Certification: Two weeks prior to final inspection.
22 05 19	1	1.3 B.	Manufacturer's Literature.
		1.3 C.	Operations and Maintenance Manual
		1.3 D.	Shop Drawings (Wiring & Terminal Diagrams)
22 05 23	1	1.3 B. 1.	Valves
		1.3 B. 2.	Backflow Preventers
		1.3 B. 3.	Pressure Reducing Valves
		1.3 B. 4.	Backwater Valves
		1.3 B. 5.	Thermostatic Mixing Valves for Emergency Plumbing Fixtures
		1.3 B. 5.	Point of Uses Thermostatic Mixing Valves for Plumbing Fixtures
22 07 11	1	1.4 B.	Materials, Facings, Jackets, Accessory Materials, Surface Burning Characteristics, Fitting Fabrication Instructions
		1.4 C. 1.	Samples: Each type of insulation
		1.4 C. 2.	Samples: Each type of facing/jacket material
		1.4 C. 3.	Samples: Each accessory material
22 08 00	1	1.6 B.	Provide copies of all submittals to the Commissioning Agent (CxA) at same time as submitted for approval of Engineer
22 11 00	1	1.3 B.	All Piping and tubing materials
		1.3 B.	Fittings materials and design
	2	1.3 B.	Flexible expansion joints
		1.3 B.	Strainers
		1.3 B.	Dielectric fittings
		1.3 B.	Water hammer arrestors
	3	1.3 B.	Sterilization chemicals and proposed method.
22 11 23	1	1.4 B. 1.	Circulation Pumps
		1.4 B. 2.	Circulation Pump Motors
		1.4 E.	Complete Operation and Maintenance Manual and Wiring Diagrams
	2	1.4 F.	Completed System Readiness Checklist signed by Technician for Commissioning Agent.
22 13 00	1	1.3 B. 1.	Piping, joints, and fittings
	2	1.3 B. 2.	Floor Drains
		1.3 B. 3.	Oil/Water Separator
		1.3 B. 4.	Cleanouts
		1.3 B. 5.	Trap primer valves and systems
		1.3 B. 5.	Water proofing sleeve flashing devices
		1.3 C.	Shop Drawing of clamping device and extensions for use with water-proofing membranes in floors.
22 13 23	1	1.3 B.	Manufacturer's Literature & Data
22 14 00	1	1.3 B.	Manufacturer's Literature & Data
		1.3 B. 1.	Piping
	2	1.3 B. 2.	Roof Drains
		1.3 B. 3.	Cleanouts
		1.3 B. 4.	Sleeve Flashing Device
		1.3 C.	Detail Drawing of Clamping Device

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
22 15 00	1	1.3 B. 1.	Piping, joints, and fittings
		1.3 B. 3.	Supporting elements
		1.3 D.	Brazing and welding certificates
	2	1.3 B. 4.	Valves
		1.3 B. 5.	Pressure Gages
		1.3 B. 6.	Pressure reducers and regulators
		1.3 B. 7.	Automatic drain valves
		1.3 B. 8.	Filter capacity and characteristics
		1.3 B. 9.	Vibration isolation
		1.3 B. 10.	Quick couplings
		1.3 B. 11.	Hose assemblies
		1.3 B. 12.	Air Compressor Systems: Curves, Efficiency, Manufacturer and Model, Capacity, Bearing Type, Lubrication, Receiver Capacity, Unloader Data, Drive Data and Adjustments, Electric Motor Data, Current Characteristics and HP of motor, Muffler data, & After cooler data.
	3	1.3 C.	Hydrostatic, compressed air system drainage test reports
22 31 11	1	1.3 B.	Manufacturer's Data:
		1.3 B. 1.	Softener tank construction, coatings and linings.
		1.3 B. 2.	Tank distribution system design.
		1.3 B. 3.	Main operating valve.
		1.3 B. 4.	Control system and flow meter.
		1.3 B. 5.	Exchange resin
		1.3 B. 6.	Brine system
		1.3 B. 7.	Accessories (pressure gage & test kit)
		1.3 B. 8.	Performance data
		1.3 B. 9.	Piping
		1.3 B. 10.	Vacuum breaker
		1.3 B. 11.	Controls
		1.3 B. 12.	Backflow Preventer
		1.3 C.	Detailed Layout drawing
	2	1.3 D.	Completed System Readiness Checklist signed by Technician for Commissioning Agent.
22 34 00	1	1.4 A. 1.	Water Heaters
		1.4 B. 1.	Rated Capacities
		1.4 B. 2.	Operating Characteristics
		1.4 B. 3.	Electrical Characteristics
		1.4 B. 4.	Furnished specialties and accessories
		1.4 C.	Shop Drawings (including wiring for power, signal, & control)
		1.4 D.	Seismic design certificates
		1.4 E.	Testing Agency (UL, CTL) Label
	2	1.4 A. 2.	P&T Relief Valves
		1.4 A. 4.	Thermometers
		1.4 A. 5.	Pressure Gages
		1.4 A. 6.	Vacuum Breakers
22 40 00	1	1.3 B.	Plumbing Fixtures
22 63 00	1	1.4 B.	Alarm controls and panels and pressure switches
22 67 21	1	1.4 B.	Manufacturer's Data:
		1.5 B. 1.	Piping
		1.5 B. 2.	Valves
		1.5 B. 3.	Dealkalizing System
		1.5 B. 4.	Controls
		1.5 B. 5.	Pressure Gages
		1.5 B. 8.	Water Testing Equipment
		1.5 C.	Detailed Drawings
		1.5 D.	Certification of performance requirements
		1.5 E.	ASME Form 'U'
	2	1.5 F.	Field performance test results
		1.5 G.	Completed System Readiness Checklist signed by Technician for Commissioning Agent.

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
DIVISION 23			
230510	1	1.3.E	Names and Contact Information for Equipment Service Organizations
		1.3.F	Welding Certificates
		1.3.H	Equipment Installation Instructions
		1.3.H	Complete Systems Layout / Coordination Drawings
		1.4.D	Confirmation of Equipment Coordination
		1.4.E	Equipment and System Shop Drawings
		1.4.J	Layout Drawings
		1.4.L	Maintenance Data and Operating Instructions
		1.4.M	Boiler Plant Maintenance Data and Operating Instructions
		1.4.N	Approved Equipment Submittals to T&B Contractor
		2.10	Equipment and Valve Nameplates / ID Tags
		2.13	Boiler Plant Pipe and Equipment Supports, Hangers, Rails, Etc.
		2.14	Pipe Sleeves
230511	1	1.3.F	Welding Certificates
		1.3.G	Equipment Installation Instructions
		1.4.D	Confirmation of Equipment Coordination
		1.4.E	Equipment and System Shop Drawings
		1.4.H	Complete Systems Layout / Coordination Drawings
		1.4.J	Maintenance Data and Operating Instructions
		1.4.K	Approved Equipment Submittals to T&B Contractor
		2.8	Equipment and Valve Nameplates / ID Tags
		2.11	HVAC Pipe and Equipment Supports, Hangers, Rails, Etc.
230541	1	1.4.B	Vibration Isolators and Bases
		1.4.C	Isolation Load Calculations
		1.4.D	Seismic Restraint Provisions and Calculations
230551	1	1.3.B	Vibration Isolators and Bases
230593	1	1.4.B	TAB Agency Qualifications
		1.4.C	Complete Set of Applicable AABC or NEBB Publications
		1.4.D	Design Review Report
	2	1.4.D	Systems Inspection Report
	3	1.4.D	Duct Air Leakage Test Report
	4	1.4.D	Systems Readiness Report
230711	1	5	Intermediate TAB Report
		6	Final TAB Report
		1.4.B	Shop Drawings
		2.1	Mineral Fiber Insulation
		2.3	Rigid Cellular Phenolic Foam Insulation
		2.4	Cellular Glass Closed-cell Insulation
		2.6	Flexible Elastomeric Insulation
		2.8	Calcium Silicate Insulation
		2.9	Insulation Facings and Jackets
		2.11	Pipe Covering Protection Saddles
230800	1	2.12	Adhesive, Mastic, Cements
		2.13	Mechanical Fasteners
		1.6.A	List of Submittals Required by CxA
		1	Names and Qualifications of Personnel Performing Demonstrations, Instructions and Tests
		2	Certification of Complete pre-testing
230811	3	1.5.D	Schedule of All Demonstrations, Instructions and Final Tests
		4	Completed Test Reports
		5	Completed System Readiness Checklists from CxA
230911	1	1.4.B	Certificates of Compliance
		1.4.D	Automatic Boiler Control and Burner Management and Safety Interlock Systems
	2	1.4.E	Boiler Plant Instrumentation
		1.4.F	Instrumentation and Control Panels
		1.4.G	Computer Workstations
		1.4.H	Wiring Diagrams
		1.4.I	Fluid Flow Meters
		1.4.J	Pressure Gages and Thermometers
	3	1.4.K	Completed System Readiness Checklists from CxA

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
230923	1	1.7.B	Wiring Diagrams and Points Lists
		1.7.B	Control Dampers and Valves Schedule and Cut sheets
		1.7.B	Catalog Cut sheets of All DDC Equipment
		1.7.B	Color Prints of Proposed Graphics
		1.7.B	BACnet Protocol Implementation Conformance Statement for each Device
		1.7.B	Instrumentation Lists for Each System
		1.7.B	Riser Diagrams
	2	1.4.D	Software Licenses
		1.7.E	As-built Control Drawings
	3	1.7.F	O&M Manuals
231000	1	1.7.G	Performance Report Prior to Final Inspection
		1.4.B	Underground Fuel Tanks
		1.4.D	Fuel Piping
		1.4.E	Pipe Fittings, Unions, Flanges
		1.4.F	Valves
		1.4.G	Secondary Containment Systems
		1.4.H	Leak Detection System
		1.4.I	Tank Fluid Level Monitoring System
		1.4.J	Tank and Piping Accessories
		2.13	Buried Utility Warning Tape
231123	1	2.14	Fuel Pump Control Panel
		1.3.B	Pipe and Fittings
		1.3.B	Valves
		1.3.B	Strainers
		1.3.C	Shop Drawings
232111	1	1.4.B	Piping
		1.4.C	Pipe Fittings, Unions, Flanges
		1.4.D	Valves
		1.4.E	Sight Flow Indicators
		1.4.G	Pressure Reducing and Regulating Valves
		1.4.H	Strainers
		1.4.I	Emergency Gas shut-off Valves / Earthquake Valves
		1.4.J	Steam Traps
		1.4.K	Flexible Connectors
		1.4.L	Pipe Support Systems
232113	1	1.4.B	Pipe and Equipment Supports
		1.4.B	Pipe and Tubing, Fittings, Flanges, Gaskets
		1.4.B	Valves and Strainers
		1.4.B	Flexible Connectors and Expansion Joints
		1.4.B	Water Flow Measuring Devices
		1.4.B	Thermometers and Test Wells
		1.4.B	Seismic Bracing Details for Piping
		1.4.C	Manufacturer's Certified Data Report, ASME form U-1
		1.4.D	Welder's Certifications
	2	1.4.E	Coordination Drawings
	3	1.4.F	As-built Piping Diagrams
212123	1	1.4.B	Pumping Equipment
	2	1.4.D	Pump Curves
		1.4.C	O&M Manuals
232213	1	1.4.B	Pipe and Equipment Supports
		1.4.B	Pipe and Tubing, Fittings, Flanges, Gaskets
		1.4.B	Valves and Strainers
		1.4.B	Flexible Connectors and Expansion Joints
		1.4.B	Gages
		1.4.B	Thermometers and Test Wells
		1.4.B	Seismic Bracing Details for Piping
		1.4.C	Manufacturer's Certified Data Report, ASME form U-1
	2	1.4.D	Coordination Drawings
	3	1.4.E	As-built Piping Diagrams
232223	1	1.4.B	Pumping Equipment
	2	1.4.D	Pump Curves
		1.4.C	O&M Manuals

Section	Submittal	Article	Description
01 33 23	Group		THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
232300	1	1.4.B	Tubing and Fittings
		1.4.B	Valves and Strainers
		1.4.B	Moisture-Liquid Indicators and Filter-Driers
		1.4.B	Flexible Metal Hose
		1.4.B	Liquid-suction Interchanges
		1.4.B	Oil Separators
		1.4.B	Pipe and Equipment Supports
		1.4.B	Gages
		1.4.B	Refrigerant and Oil
		1.4.B	Pipe/conduit Roof Penetration Cover
		1.4.B	Soldering and Brazing Materials
		1.4.C	Welding Certificates
		1.4.D	Refrigerant Valves and Accessories Design Manual
	2	1.4.B	Layout of Refrigerant Piping and Accessories
232500	1	1.4.B	Cleaning Compounds and Recommended Procedures for Use
		1.4.B	Chemical Treatment for Closed Systems
		1.4.C	Water Analysis Verification
		1.4.D	MSDS for all Proposed Chemicals
	2	1.4.E	O&M Manuals
233100	1	1.4.B	Rectangular Ducts
		1.4.B	Round Ducts
		1.4.B	Volume Dampers
		1.4.B	Duct Hangers and Supports
		1.4.B	Fire Dampers
		1.4.B	Flexible Ductwork
		1.4.B	Flexible Connections
		1.4.B	Instrument Test Fittings
	2	1.4.C	Coordination Drawings
233400	1	1.4.B	HVAC Fans
		1.4.C	Certified Sound Power Levels
		1.4.D	Motor Ratings and Electrical Characteristics
		1.4.E	Roof Curbs
		1.4.F	Belt Guards
	1.4.H	Certified Fan Performance Curves	
2	1.4.G	O&M Manuals	
233700	1	1.4.B	Intake and Exhaust Hoods
	2	1.4.B	Diffusers, Registers, Grilles, and Accessories
	3	1.4.C	Coordination Drawings
234300	1	1.4.D	Extended Surface Filters
		1.4.B	Holding Frames and Housings
		1.4.C	Air Filter Performance Report
		1.4.D	Supplier Warranty
235011	1	1.3.B	Feedwater Deaerator and Accessories
		1.3.D	Boiler Blowoff Tank and Accessories
	2	1.3.Q	Seismic Restraint Provisions and Calculations
		1.3.E	Boiler Feed and Condensate Transfer Pumps
		1.3.F	Condensate Return Pumps
	3	1.3.L	Boiler Water and Deaerator Water Sample Coolers
		1.3.G	Fuel Oil Pumping Equipment
	4	1.3.K	Steam Vent Silencers
	5	1.3.M	Chemical Feed System
	6	1.3.N	Automatic Continuous Blowdown Control System
7	1.3.O	Acceptance Test Data	
	8	1.3.P	Systems Readiness Report
235100	1	1.4.B	Design, materials, weights, construction, pressure and temperature ratings of breeching and stack systems, flue gas recirculation system.
		1.4.B	Seismic Design Data
		1.4.C	Shop Drawings
		1.4.D	Design, construction, allowable movements, movement forces, pressure and temperature ratings of expansion joints
		1.4.E	Design, construction, pressure and temperature ratings, pressure loss at design flow, leakage of closed damper
		1.4.F	Support designs, locations and loads for entire assembly
	1.4.G	Written Statement from Boiler/Burner manufacturer of Design Compliance	

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
235239	1	1.4.B	Fire-tube Boiler
		1.4.C	Boiler Trim and Accessories
	2	1.4.D	Burner and Fuel Valve and Piping Trains
		1.4.E	Burner Management System
	3	1.4.F	Flue Gas Economizer
		1.4.G	Boiler, Burner, Economizer Predicted Performance Data
		1.4.H	ASME "P" Forms and Manufacturer's Data Report on Boiler and Economizer Construction
	4	1.4.I	Pre-test Data
238100	1	1.4.J	Systems Readiness Report
		1.4.B	DX Split Systems
		1.4.B	Roof-top Units
		1.4.C	AHRI Certification
	2	1.4.D	EER and COP Performance Ratings
		1.4.E	O&M Manuals
238143	1	1.4.F	Systems Readiness Report
		1.4.B	Split Systems
		1.4.B	Roof-top Units
		1.4.C	AHRI Certification
	2	1.4.D	EER and COP Performance Ratings
		1.4.E	O&M Manuals
238200	1	1.4.B	Unit Heaters
	2	1.4.D	O&M Manuals
	3	1.4.E	Systems Readiness Report
DIVISION 25			
25 10 10	1	1.7.A	Product Data
		1.7.B	Shop Drawings
	2	1.8.A	O&M Manuals
DIVISION 26			
26 05 19	1	2.1	Conductors and Cables
		2.2	Splices
		2.3	Connectors and Terminations
		2.4	Control Wiring
		2.5	Wire lubricating compound
26 05 26	1	2.1	Grounding and Bonding Conductors
		2.2	Ground Rods
		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	2.1	Material
26 05 41	1	2.2	Pull Boxes
26 05 73	1	1.4	Submittals
		1.6	Requirements
		1.7	Analysis
		1.8	Adjustments, Settings and Modifications
26 09 23	1	2.1	Electronic Time Switches
		2.3	Outdoor Photoelectric Switches
		2.5	Ceiling-mounted Photoelectric Switches
		2.7	Indoor Occupancy Sensors
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
		2.4	Surge Protective Devices
26 24 19	1	2.1	General Requirements
		2.2	Bus Bars and Interconnections
		2.3	Motor Controllers
		2.4	Feeder Units
26 27 26	1	2.1	Receptacles
		2.2	Toggle Switches
		2.4	Wall Plates

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#12030

Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
26 29 11	1	2.1	Motor Controllers
		2.2	Manual Motor Controllers
		2.3	Magnetic Motor Controllers
		2.4	Reduced Voltage Motor Controllers
		2.6	Low-Voltage Variable Speed Motor Controllers (VSMC)
26 29 21	1	2.1	Fused Switches Rated 600 Amperes and Less
		2.2	Unfused Switches Rated 600 Amperes and Less
		2.4	Motor Rated Toggle Switches
		2.5	Cartridge Fuses
		2.6	Separately Enclosed Circuit Breaker
26 32 13	1	2.1	General Requirements
		2.2	Engine
		2.3	Governor
		2.4	Lubrication Oil System
		2.5	Fuel System
		2.6	Cooling System
		2.7	Air Intake and Exhaust Systems
		2.8	Engine Starting System
		2.9	Lubricating Oil Heaters
		2.10	Jacket Coolant Heaters
		2.11	Generator
		2.12	Generator Overcurrent and Fault Protection
		2.13	Controls
26 33 53	1	2.14	Remote Annunciator Panel
		2.18	Spare Parts
		2.1	General Requirements
		2.2	UPS
		2.3	Static Bypass Transfer Switch
26 36 23	1	2.4	Maintenance Bypass - Single-Module Ups
		2.6	Module Control Panel - Single Module Ups
		2.9	Battery System
		2.1	General Requirements
26 41 00	1	2.2	Sequence of Operation
		2.4	Remote Annunciator System
26 43 13	1	2.1	General Requirements
		2.2	Panelboard Suppressors
26 51 00	1	2.3	Enclosures
		2.1	Lighting Fixtures
		2.2	Ballasts
		2.4	Emergency Lighting Unit
		2.5	Lamps
		2.9	LED Exit Light Fixtures
26 56 00	1	2.10	LED Light Fixtures
		2.1	Materials and Equipment
		2.4	Luminaires
		2.5	Lamps
27 05 23	1	2.9	LED Drivers
		2.1	Grounding and Bonding Conductors
		2.2	Ground Rods
		2.3	Splices and Termination Components
		2.4	Telecommunication System Ground Busbars
		2.5	Ground Connections
		2.6	Equipment Rack and Cabinet Ground Bars
		2.7	Ground Terminal Blocks
27 05 33	1	2.8	Splice Case Ground Accessories
		2.1	Material

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
27 10 00	1	2.1	Control Wiring
		2.2	Communication and Signal Wiring
		2.3	Wire lubricating compound
27 11 00	1	2.1	Equipment and Materials
		2.2	Equipment Items
		2.3	Environmental Requirements
		2.4	Installation Kit
27 15 00	1	2.1	Equipment and Materials
		2.2	Distribution Equipment and Systems
		2.3	Telecommunications Closet Requirements
		2.4	Environmental Requirements
		2.5	Installation Kit
27 51 16	1	2.0	General Requirements for Equipment and Materials
		2.1	System Description
		2.2	System Performance
		2.3	Manufacturers
		2.4	Products
DIVISION 28			
28 05 13	1	2.1	General
		2.2	Backboards
		2.3	UTP
		2.4	UTP Cable Hardware
		2.5	Optical Fiber Cable
		2.6	Optical Fiber Cable Hardware
		2.7	Coaxial Cable
		2.8	Coaxial Cable Hardware
		2.9	RS-232 Cable
		2.10	RS-485 Cable
		2.11	Low-Voltage Control Cable
		2.12	Control-Circuit Conductors
		2.13	Fire Alarm Wire and Cable
		2.14	Identification Products
		2.15	Source Quality Control
		2.16	Wire lubricating compound
		2.17	Fireproofing Tape
28 05 26	1	2.1	Grounding and Bonding Conductors
		2.2	Ground Rods
		2.3	Splices and Termination Components
		2.4	Equipment Rack and Cabinet Ground Bars
		2.5	Ground Terminal Blocks
		2.6	Splice Case Ground Accessories
28 05 28.33	1	2.1	General
		2.2	Conduit
		2.3	Wireways and Raceways
		2.4	Conduit Fittings
		2.5	Conduit Supports
		2.6	Outlet, Junction, and Pull Boxes
		2.7	Cabinets
		2.8	Wireways
		2.9	Warning Tape
		2.11	Sleeves for Raceways
		2.13	Grout

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Section	Submittal Group	Article	Description
01 33 23			THIS SECTION APPLIES TO ALL SUBMITTALS IN THE PROJECT SPECIFICATIONS
28 13 00	1	2.1	General
		2.2	Security Management Systems (SMS)
		2.3	Application Software
		2.4	Surge and Tamper Protection
		2.8	Controllers
		2.10	Card Readers
		2.13	System Sensors and Related Equipment
		2.14	Push Button Switches
		2.15	Portal Control Devices
		2.17	Interfaces
		2.21	Video and Camera Control
		2.22	Wires and Cables
28 23 00	1	2.1	General
		2.2	Cameras
		2.3	Digital Based Video Management System
		2.4	Video Display Equipment
		2.5	Controlling Equipment
		2.7	Automatic Color Dome Camera - Analog
		2.8	Power Supplies
		2.9	Infrared Illuminators
		2.10	Network Server
		2.11	Recording Devices
		2.12	Wires and Cables
28 31 00	1	2.1	Equipment and Materials, General
		2.2	Conduit, Boxes, and Wire
		2.3	Fire Alarm Control Unit
		2.7	Alarm Notification Appliances
		2.8	Alarm Initiating Devices
		2.9	Supervisory Devices
		2.10	Address Reporting Interface Device
		2.12	Utility Locks and Keys
		2.13	Spare and Replacement Parts
		2.14	Instruction Chart