

Submittal List with Review Estimate Instructions

National Park Service (NPS) - Denver Service Center (DSC) | 1-27-21

DESIGN SERVICES (Construction Documents (CD) Phase)

Responsible Party: **Design Architect/Engineer (A/E)**

- 1 Enter **Park Acronym**, **Project Management Information System (PMIS) Number**, and **Project Title**.
- 2 Record construction submittal requirements. Complete **Specification Section**, **Paragraph Number**, and **Description** sections. Insert additional rows as required for sections containing multiple submittals.
- 3 In **Requirements** section, enter **X** for submittal requirements where applicable. Insert additional columns as needed under **Informational** or **Action**. Refer to Specification Section 01 33 23 for clarification. (Action submittals require Government responsive action and Informational submittals do not.) Division 1 Specifications submittals are Information submittals.
- 4 Attach black and white version to Specification Section 01 33 23 in project manual. Delete instructional note on top of page.

CONSTRUCTION SERVICES (Construction Phase)

Responsible Party: **Construction Contracting Officer Representative (COR)**

- 1 Use **Submittal List** submitted with Final Construction Documents. Copy/paste submittal information into **Submittal List with Review Estimate Template**. If amendments issued, adjust submittal requirements as necessary.
- 2 Attach this template to **Architect/Engineer (A/E) Construction Services Scope of Services**.
- 3 Use **Review Estimate** to estimate time required for Architect/Engineer to accomplish **Action** submittal reviews. Enter estimated whole or partial number of hours per discipline.
- 4 Add discipline heading column as required.
- 5 Use total number of hours per discipline at bottom of template and apply hourly rates listed in **Indefinite Delivery/Indefinite Quantity (IDIQ)** contract (using appropriate option period rates) to formulate Government estimate for submittal reviews.
- 6 Use information from this template to negotiate submittal review portion of Architect/Engineer Construction Services task order.
- 7 Provide template to Construction Management Representative (CMR) to show submittals they are responsible for and submittals to be forwarded to the Architect/Engineer. All Informational submittals will be reviewed by Construction Management Representative.

Responsible Party: **Architect/Engineer (A/E)**

- 1 Indicate level of effort required for each **Action** submittal review by entering number of whole or partial hours for each discipline under **Architect/Engineer Review Time** section.
- 2 All Informational submittals will be reviewed by Construction Management Representative (CMR).
- 3 Use total number of hours per discipline at bottom of template and apply hourly rates listed in **Indefinite Delivery/Indefinite Quantity (IDIQ)** contract (using appropriate option period rates) to formulate estimate.
- 4 Use this estimate to negotiate submittals review portion of Architect/Engineer Construction Services portion of the task order.

**SUBMITTAL LIST
FOR
GRCA SOUTH RIM**

SUBMITTAL			REQUIREMENTS (Indicate with X)							
SPECIFICATION SECTION	PARAGRAPH NUMBER	DESCRIPTION	INFORMATIONAL				ACTION			
			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
01 26 01		Contract Modification Procedures								
	1.3	Modification Proposal								
01 31 00		Project Management and Coordination								
	1.4	Coordination Drawings						X		
		Coordination Drawing Organization				X				X
		Coordination Digital Data Files				X				
		Division 01 Documents				X				
		List of Items Before Pre-Construction Conference				X				
	1.6	List of Employees Who Will Need Access to the Project Website				X				
	1.8	Contractor's Environmental Training Program				X				
		Environmental Procedures Documentation				X				
01 32 16		Construction Schedule				X				
	1.3	Electronic Copies				X				
		Schedule of Values				X				
		Construction Baseline Schedule				X				
		Critical Path Method (CPM) Reports		X						
		Construction Schedule Updates				X				
		Construction Schedule Revisions and Time Impact Analysis				X				
	1.4	Resume Outlining Qualifications of Scheduler				X				
	2.2	Schedule Narrative								
	2.2	Recovery Schedule				X				
	3.1	Construction Schedule Updates				X				
	3.2	Time Impact Analysis for Contract Modifications Changes Delays and Contractor Requests				X				
01 32 33		Photo Documentation				X				
	1.1	Videotapes of Demonstration of Equipment and Training of National Park Service (NPS) Personnel				X				
	1.2	Construction Images				X				
		Closeout Digital Video Disc (DVD)				X				
01 35 00		Environmental Protection and Special Controls								
	1.03	Spill Prevention and Response Plan		X						
01 35 23		Safety Requirements								
	1.3	Accident Prevention Plan		X						
	3.6	Safety Meeting Minutes				X				
01 40 00		Quality Requirements								
	1.4	Quality Control Plan								X
		Qualification Data								X
		Contractor's Quality Control Daily Reports		X						
		Test Reports	X	X						
		Accessibility Inspection Report		X						
		Off-site Inspection Reports		X						
		Permits, Licenses, and Certificates	X			X				
01 43 33		Manufacturers' Field Services								
	1.02	Training Schedule				X				
		Lesson Plan		X						
		Training Session Recordings				X				
01 45 33		Special Inspection, Observation, and Testing								
	1.04	Fabricator's Certificate of Compliance	X							
01 50 00		Temporary Facilities and Controls								
		Temporary Flow Control Plan		X						
		Emergency Cleanup Plan		X						
		Special Permits Required for Temporary Flow Control				X				
		Names and qualifications of industrial hygienist and standby cleanup Subcontractor	X							
		Information describing equipment and materials to be used and showing conformance with specified requirements.				X				

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
01 57 13		Temporary Erosion and Sediment Control								
	1.04	Modified TESC Plan		X						
01 57 19.11		Indoor Air Quality Management								
	1.4	Indoor Air Quality Management Plan								X
		Product Data			X					
		Inspection and Test Reports		X						
	3.2	Moisture Penetration Test Results	X							
01 57 23		Temporary Storm Water Pollution Prevention								
	1.3	Stormwater Pollution Prevention Plan								X
		SWPP Satisfied Federal and State WYPDES permit Requirements								X
		UPPP in Conformance with NPS Guidelines and Adherence to Applicable Construction Storm Water Management Practices								X
		Inspection Schedule				X				
		Erosion Control Products			X					
		Contracting Officer Notification				X				
	1.4	Quality Assurance Amendment				X				X
	3.2	No Discharge Certificate (NDC)	X							
01 57 28		Temporary Flow Control								
	1.05	Temporary Flow Control Plan		X						
		Emergency Cleanup Plan		X						
		Special Permits				X				
		Names and Qualifications of Industrial Hygienist and Standby Cleanup Subcontractor	X							
		Information Describing Equipment and Materials			X					
01 67 00		Product Requirements								
	1.4	Affirmative Procurement Reporting Form				X				
		Environmental Data			X					
		Safety Data Sheets (SDS)			X					
		Chain of Custody				X				
	1.10	Special Warranties				X				
01 73 20		Openings and Penetrations in Construction								
	1.04	Shop Drawings						X		
		Manufacturer's installation instructions for standard manufactured products							X	
01 73 29		Cutting and Patching								
	1.2	Cutting and Patching Plan								X
01 73 40		Execution								
	1.2	Certificates	X							
		Landfill Receipts				X				
		Certified Surveys	X							
		Quantity Surveys				X				
		Construction Phasing Plan		X						
	3.1	Map of proposed pothole locations				X				
		Potholing Report		X						
01 74 19		Construction Waste Management and Disposal								
	1.4	Waste Management Plan								X
		Waste Reduction Calculations								X
		Progress Documentation				X				
		Records of Donations				X				
		Records of Sales				X				
		Recycling and Processing Facility Records				X				
		Landfill and Incinerator Disposal Records				X				
		Qualification Data			X					
		Statement of Refrigerant Recovery				X				
		Progress Payment Requirements				X				
		Closeout Submittals				X				

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01 77 00		Closeout Procedures								
	1.3	Specific Warranties, Guarantees, Workmanship Bonds, Final Certifications, and Similar Documents	X							
		NPS Required Forms for Occupancy				X				
		Project Record Documents, O&M Manuals, Final Completion Construction Digital Images, and Similar Final Record Information			X	X				
		Environmental Record Documents				X				
		Posted Operating Instructions			X	X				
		Tools, Spare Parts, Extra Materials, and Similar Items			X	X				
		Keys and Keying Schedule				X				
		Final Changeover in Security Provisions				X				
		Pre-functional Checklists and Functional Performance Testing Reports		X		X				
		Test and Balance Report		X						
		Terminate and Remove Temporary Facilities, Mockups, Construction Tools, and Similar Elements from Project Site				X				
		Elimination of Visual Defects				X				
		Operation, Adjustment, and Maintenance of Product instruction. And Demonstration and Training Videos			X	X				
		Waste Disposal and Recycling Receipts/Weight Tickets				X				
	1.5	List of Tasks to Close or Transfer Permits to Park				X				
	1.6	Written Warranties				X				
01 78 23		Operating and Maintenance Data								
	1.2	Operations and Maintenance Manual			X					
		Closeout and Operation & Maintenance (O&M) Requirements List				X				
01 78 25		Operating and Maintenance Support Services								
	1.02	Minimum of three qualified candidate resumes for each position	X							
	1.08	Standard Operating Procedures (SOPs)				X				
	1.1	Regulatory Monthly Reporting and Compliance Communications Draft Reports		X						
01 79 00		Demonstration and Training								
	1.2	List of System Demonstration and Training Requirements				X				
	1.3	Instruction Program								X
		Demonstration and Training Video				X				
01 81 13		Sustainable Design Requirements								
	1.3	Recycled Content				X				
		Certified Wood	X			X				
		Construction IAQ Management Plan- During Construction		X						
		Construction IAQ Management Plan- Before Occupancy		X						
		Low Emitting Materials - Adhesives and Sealants			X					
		Low Emitting Materials - Paints and Coatings			X					
		Low Emitting Materials - Flooring			X					
		Biopreferred Products				X				
01 81 33		Cyber Security Requirements								
	1.02	Asset Inventory of all Networked Components				X				
		Network Diagrams				X				
		Software Source Code for all PLCs, HMIs, OITs and other devices				X				
		Configuration files, passwords, encryption information and other sensitive information				X				
01 88 15		Anchorage and Bracing								
	1.05	Shop Drawings						X		
		Anchorage and Bracing Calculations		X						
		Manufacturer's Hardware Installation Requirements			X					
		Deferred Submittals				X				X
01 91 14		Equipment Testing and Facility Startup								
	1.04	Comprehensive Testing Schedule				X				
		Master Startup and Testing Plan		X						
		Startup and Commissioning Manager's Qualifications	X							

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		Completed and Accepted Testing Forms				X				
		Letter Verifying Completion of Startup Activities				X				
01 91 15		Total Building Commissioning								
	1.6	Two-Week Look Ahead Schedules				X				X
		Certificates of Readiness	X							
		Contractor's Commissioning Representative Qualifications	X							
		Commissioning Plan		X						
		Pre-Functional Checklists				X				
		Government's Project Requirements				X				
		Functional Performance Test Forms	X			X				
		List of Test Instrumentation, Equipment, and Monitoring Devices				X				
		Deficiency Report and Resolution Record		X						
		Closeout Documentation				X				
02 41 00		Demolition								
	1.03	Demolition/Renovation Plan								X
		Notifications, Authorizations, and Permits				X				
		Shipping Receipt or Bill of Lading - Containers of Ozone Depleting Substance (ODS)				X				
		Shipping Receipt or Bill of Lading - Containers of ACM				X				
		Shipping Receipt or Bill of Lading - Universal Waste				X				
02 61 00		Removal and Disposal of Contaminated Soil								
	1.04	Permits and certifications for soil, debris and waste haulers	X							
		Permits, certification and acceptance requirements for proposed soil, debris and wastewater disposal or treatment facilities	X							
		Qualifications	X							
		Soil and Debris Analytical and Physical Characterization Testing Plan		X						
		Inspection Reports		X						
		Excavation and Water Control Plan		X						
		Site-specific Health and Safety Plan		X						
		Emergency Response Plan		X						
	3.01	Acceptance letters and receipts for material disposed at each facility				X				
	3.03	Weekly excavation plans		X						
02 81 00		Transportation and Disposal of Hazardous Materials								
	1.03	Hazardous Waste Management Plan.								X
		Notices of Non-Compliance and Notices of Violation								X
		Onsite Hazardous Waste Management				X				
		Packaging Notifications				X				
		Test Reports	X	X						
		Certificates	X							
	3.03	Offsite Hazardous Waste Management				X				
	3.04	Radioactive Materials Management				X				
	3.06	Waste Minimization Certifications	X							
02 82 00		Asbestos Remediation								
	1.04	Product Data			X					
		Test Reports								X
		Certificates								X
		Closeout Submittals								X
	1.05	Private Qualified Person Documentation	X							
		Training Certification and a current AHERA Asbestos Contractor's and Supervisor's License	X							
		Worker's License	X							
		Contractor's License	X							
		Air Sampling Results	X							
		Pressure Differential Recordings				X				

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		Statement signed by an officer of the company, containing a record of any citations Issued by Federal, State or Local Regulatory Agencies Relating to Asbestos Activities within the last 5 years	X							
	3.01	Glovebag Data			X					
	3.02	Removal Procedure							X	
02 83 00	1.04	Lead Remediation								
		Preconstruction Submittals								X
		Product Data			X					
		Test Reports		X						
		Certificates								X
		Closeout Submittals								X
	1.05	Licenses, Permits and Notifications								X
		Lead Compliance Plan		X						
		Occupational and Environmental Assessment Data Report (if necessary)		X						
		Pressure Differential Recordings								
	2.01	Description of required materials and equipment				X				
		Description of expendable supplies				X				
02 84 16		Handling of Lighting Ballasts/Lamps Containing PCBs and Mercury								
	1.05	Certificates	X							
		Closeout Submittals								X
		PCB and Lamp Removal Work Plan								X
		PCB and Lamp Disposal Plan								X
	1.08	Licenses, Permits and Notifications								
02 84 33		Removal and Disposal of PCBs								
	1.05	Preconstruction Submittals								X
		Certificates	X							
03 01 32		Repair of Vertical & Overhead Concrete Surfaces								
	1.03	Product Data Sheets							X	
		Repair Mortar System			X					
		Description of Equipment			X					
		Certificates	X							
		Statement of Qualification	X							
		Field and Lab Test Results	X							
03 01 33		Repair of Horizontal Concrete Surfaces								
	1.03	Product Data							X	
		Repair Mortar System			X					
		Description of Equipment			X					
		Certificates	X							
		Statement of Qualification	X							
		Field and Lab Test Results	X							
03 10 00		Concrete Forming and Accessories								
	1.04	Shop Drawings						X		
		Product Data							X	
		Statement of Qualification	X							
03 15 00		Concrete Joints and Accessories								
	1.02	Shop Drawings						X		
		Product Data							X	
		Samples					X			
		Certification	X							
		Manufacturer's Written Instructions			X					
03 21 00		Steel Reinforcement								
	1.03	Shop Drawings						X		
		Welded, Metallic Sleeve Splice and Mechanical Threaded Connections								X
		Lab Test Reports	X							
		Mechanical Threaded Connections				X				

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		Test Results of Field Testing	X							
03 24 00		Fibrous Reinforcing								
		Product Data							X	
		Fiber Reinforced Concrete Mix Design								X
		Manufacturer's Written Instructions			X					
		Manufacturer's Certificate of Compliance	X							
		Manufacturer's Written Instructions			X					
		Manufacturer's Written Test Procedure			X					
		Concrete Supplier Certificate of Compliance	X							
		Manufacturer's Certification of Registration	X							
03 30 00		Cast-in-Place Concrete								
	1.03	Mix Designs								X
		Product Data							X	
		Detailed Plan for Curing & Protection								X
		Detailed Plan for Hot Weather								X
		Preinstallation Conference Minutes				X				
		Manufacturers' Application Instructions			X					
		Manufacturers' Certificate of Compliance	X							
		Statement of Qualification	X							
		Field Test Reports	X	X						
		Tightness Test Results	X							
		Concrete Delivery Tickets				X				
03 39 00		Concrete Curing								
	1.02	Manufacturer's Data							X	
		Curing Methods								X
		Manufacturer's Certificate of Compliance	X							
03 62 00		Grouting								
	1.02	Product Data							X	
		Concrete Proposed Method							X	
		Forming Method							X	
		Curing Method							X	
		Manufacturer's Written Instructions			X					
		Manufacturer's Certificate of Compliance	X							
		Statements of Qualification	X							
		Test Reports		X						
		List of Contractor's Equipment Installation Staff			X					
03 63 00		Concrete Doweling								
	1.03	Product Data							X	
		Manufacturer's Instructions			X					
		Manufacturer's Letter of Certification	X							
		ICC Evaluation Services Report		X						
03 64 23		Epoxy Resin Injection Grouting								
	1.03	Physical and Chemical Properties							X	
		Technical Data							X	
		Procedures where Epoxy approved for use							X	
		Marked Up Drawings						X		
		Sample Bottle					X			
		Pot Life Test								X
		Slant Shear Test (Bond Strength)								X
		Manufacturers' Recommended Surface Preparation Procedures			X					
		Manufacturer's Certificate of Compliance	X							
		Statements of Qualification for Epoxy Resin	X							
		Sample of Epoxy Resin Two Component Ratio				X				
		Health and Safety Plans		X						
		Installation Instructions			X					

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		Test Results of Epoxy Resin Bond Tests	X							
		Injection Pressure Test Records	X							
03 64 24		Polyurethane Injection Grouting								
	1.03	Physical and Chemical Properties							X	
		Technical Data							X	
		Marked Up Drawings						X		
		Proposed Materials							X	
		Injection Procedure								X
		Sample Bottle					X			
		Manufacturers' Recommended Surface Preparation Procedures			X					
		Manufacturer's Certificate of Compliance	X							
		Statement of Qualification	X							
		Health and Safety Plans		X						
		Sample of Polyurethane Resin Mix Ratio				X				
		Injection Pressure Test Records				X				
		Installation Instructions			X					
04 22 00		Concrete Unit Masonry								
	1.02	Shop Drawings						X		
		Data Sheets							X	
		Samples					X			
		Method and Location of Placing Grout			X					
		Mix Design Test Results	X							
		Certifications	X							
		Test Results of Project Samples	X							
		Test Results of Grout Mix Design	X							
		Test Reports for Mortar Aggregates	X							
		Test Reports or Letter of Certification for Grout Aggregates	X							
		Letter From Water Repellent Admixture Manufacturer				X				
		Method and Materials for Removal of Efflorescence			X					
		Field Test Results to Qualify Materials	X							
	1.03	Mortar, grout, unit and reinforcing submittals								X
		Preinstallation Conference Minutes				X				
05 05 19		Post-Installed Anchors								
	1.03	Shop Drawings						X		
		Concrete & Masonry Anchors			X					
		Passivation method for stainless steel members				X				
		Hot-Dip Galvanizing Certificate of Compliance	X							
05 05 23		Welding								
	1.03	Shop Drawings						X		
		Welder/Welding Operator Performance Qualification (WPQ) Record	X							
		Certified Welding Inspector (CWI) Credentials	X							
		Testing Agency Personnel Credentials	X							
		CWI Visual Inspection (VT) Reports		X						
		Welding Documentation			X					
		Welding and Nondestructive Testing (NDT) required submittals for different specification sections								X
05 12 00		Structural Steel Framing								
	1.02	Shop Drawings						X		
		Product Specifications including primer and other coating							X	
		Identify pretensioned and slip-critical high strength bolted connections								X
		Locations of Class A, or higher, faying surfaces.								
		Weld access hole dimensions, surface profile, and finish requirements							X	X
		Location of demand critical shop welds.								X
		Locations and dimensions of protected zones.								X

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		Gusset plates drawn to scale when they are detailed to accommodate inelastic rotation								X
		Nondestructive testing (NDT)								X
		Welding requirements							X	X
		Schedule for submittal of shop and erection the drawings.				X				
		Name and Address of Manufacturer(s)			X					
		Mill Certificates of tests made in accordance with ASTM A6/A6M	X							
		Manufacturer's Testing Procedures and Standards			X					
		Preparation and Installation or Application Instructions			X					
		High-Strength Bolts Submittals				X				
		Direct Tension Indicators (DTIs) Test Report	X							
		Twist-Off-Type Tension-Control (TC) Bolts Test Report	X							
		Welding Procedures, Qualifications, and Inspection Reports	X	X	X					
		Hot-Dip Galvanizing Certificate of Compliance	X							
		AISC Quality Certification	X							
		Charpy V-notch test results.				X				
		Nondestructive testing (NDT) Report		X						
05 31 00		Steel Decking								
		Shop Drawings						X		
		Installation Requirements			X					
		Welding Procedures, Qualifications, and Inspection Reports		X						
		Operation Manuals for Mechanical Fastner Installation Tools		X						
		Manufacturer's Certificate of Compliance	X							
05 50 00		Metal Fabrications								
	1.03	Shop Drawings						X		
		Samples					X			
		U-Channel Concrete Inserts				X				
		Pre-Engineered Ladders Letter of Certification	X							
		Passivation Method For SS Members				X				
		Galvanized Coating Applicator Qualifications	X							
		Hot-Dip Galvanizing Certificate of Compliance	X							
05 52 16		Aluminum Railings								
	1.04	Shop Drawings						X		
		Manufacturer's Assembly and Installation Instructions			X					
		Special Inspection				X				
		Test Reports	X	X						
		Manufacturer's Written Recommendations			X					
05 53 00		Metal Gratings								
	1.02	Shop Drawings						X		
		Special Handling and Storage Requirements				X				
		Installation Instructions			X					
06 10 00		Rough Carpentry								
	1.03	Product Data							X	
		Forest Stewardship Council (FSC) Certification								X
		ICC Evaluation Services Report		X		X				
		Wood Treatment Manufacturer's Instructions			X					
		Material Certificates	X							
		Material Test Reports	X	X						
06 17 53		Shop-Fabricated Wood Trusses								
	1.03	Building Truss Information including Elevation View Drawings						X		X
		Product Data								X
		Wood Treatment and Finish Treatment Data								X
		Calculations								X
		Plan View Layout						X		
		Connection and Bearing Detail								X

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		Bridging Member Sizes and Connection Details								X
		Manufacturer's Instruction for Handling, Erection and Bracing of Wood Trusses							X	X
		Certificates	X							
06 41 00		Fabricator's Qualifications	X							
		Architectural Wood Casework								
	1.02	Shop Drawings						X		
		Samples					X			
	1.03	Proof of Woodwork Manufacturer Qualifications	X							
06 82 00		Glass Fiber Reinforced Plastic								
	1.02	Shop Drawings						X		
		Handling and Storage Requirements				X				
		Factory Test Reports		X						
		Manufacturer's Installation Instructions			X					
		Manufacturer's Certificate of Compliance	X							
		Fabricator's Qualification Experience				X				
		Manufacturer's Qualification Experience	X							
		Independent Laboratory Testing Data	X							
07 14 00		Fluid-Applied Waterproofing								
	1.01	Product Data							X	
		Shop Drawings						X		
		Samples					X			
		Certification	X							
		Guarantee				X				
		Applicator Approval Letter				X				
07 21 00		Thermal Insulation								
	1.02	Shop Drawings						X		
07 26 16		Below Grade Vapor Retarders								
	1.02	Manufacturer's Material Specifications and Product Data							X	
		Sample					X			
		MSDS for Proposed Materials				X				
		Manufacturer's Written Instructions			X					
		Manufacturer's Certification of Proper Installation	X							
07 41 13		Metal Roof and Soffit Panels								
	1.04	Shop Drawings						X		
		Product Data							X	
		Samples					X			
		Manufacturer's Installation Instructions			X					
		Letter From Roofing Manufacturer				X				
		Preliminary and Preinstallation Conference Meeting Minutes				X				
		Special Guarantee				X				
		Manufacturer's Certification of Proper Installation	X							
07 54 23		Thermoplastic Membrane Roofing								
	1.05	Layout of Tapered Insulation						X		
		Project -Specific Details of Roof Penetrations and Perimeter Conditions							X	
		Layout and Details of Fully Adhered System						X		
		List of Proposed Materials for Use							X	
		Manufacturer's Specifications							X	
		Documentation that Anchoring System Meets Uplift Requirements								X
		Manufacturer's Installation Instructions			X					
		Letter or other documentation from roofing materials manufacturer stating that installer has been trained and approved to apply roof system.	X							
		Sample copy of guarantee to be provided.	X							
		Record of Preroofing Conference.				X				
		Inspection Reports		X						
		Operation and Maintenance Data			X					

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		Manufacturer's Certificate of Proper Installation	X							
	1.06	Sustainable Design Requirements			X					
07 62 00		Sheet Metal Flashing and Trim								
	1.04	Shop Drawings						X		
		Samples					X			
07 70 01		Roof Specialties and Accessories								
	1.02	Shop Drawings						X		
		Catalog Cuts								X
		Manufacturer's Certificate of Compliance	X							
07 84 00		Firestopping								
	1.03	Shop Drawings						X		
		Product Data							X	
		Manufacturer's Installation Instructions			X					
		Test Reports		X						
		Certificates	X							
		Special Guarantee	X							
07 92 00		Joint Sealants								
	1.02	Shop Drawings						X		
		Samples					X			
		Installation Instructions			X					
		Applicator Qualifications	X							
		Special Guarantee				X				
08 11 00		Metal Doors And Frames								
	1.02	Applicable Information for Each Type of Door and Frame							X	
		Anchorage and Bracing Calculations or Test Results		X						
08 30 00		Specialty Doors								
	1.02	Manufacturer's Catalog Information			X					
		Shop Drawings						X		
		Samples					X			
		Anchorage and Bracing Calculations		X						
		Certification of Watertight Door	X							
		Sustainable Design Information			X					
08 51 13		Aluminum Windows								
	1.03	Shop Drawings						X		
		Samples					X			
		Manufacturer's Certification of Compliance	X							
		Reports of Factory Quality Control Tests	X	X						
08 71 00		Door Hardware								
	1.02	Shop Drawings						X		
		Operation and Maintenance Data			X					
		Certification of Hardware Consultant	X							
		Manufacturer's Field Service Report		X						
08 80 00		Glazing								
	1.02	Shop Drawings						X		
		Product Data							X	
		Samples					X			
		Design Calculations for Glass Thicknesses		X						
		Seismic Anchorage and Bracing Calculations		X						
		Details and Methods of Glazing			X					
		Sealant Manufacturer Compatibility Documentation			X					
		Glazer's Experience and Manufacturer's Approval				X				
		Sustainable Design Information				X				
08 90 00		Louvers								
	1.03	Shop Drawings						X		
		Samples					X			

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		Seismic Anchorage and Bracing Calculations		X						
		Factory Test Data	X							
		Certificates Of AMCA Ratings	X							
		Installation Instructions			X					
		Parts List, if applicable				X				
		Maintenance Procedures				X				
		Special Guarantee				X				
09 22 16		Nonstructural Metal Framing								
	1.02	Shop Drawings						X		
		Seismic Anchorage and Bracing Calculations		X						
09 29 00		Gypsum Board								
	1.02	Control Joint Pattern Proposed for Gypsum Board						X		
		Control Joint Pattern Proposed for Gypsum Soffit						X		
		Manufacturer's List of Items and Materials Proposed for Use								
		Samples					X			
09 30 00		Tiling								
	1.02	Samples					X			
		Certification of Compliance	X							
		Manufacturer's Instructions			X					
		Tile Manufacturer's Maintenance Guidelines								
09 51 23	1.03	Sustainable Design Information				X				
	1.02	Acoustical Tile Ceilings								
		Shop Drawings						X		
		Samples					X			
		Anchorage and Bracing Calculations				X				
		Manufacturer's Recommendation for Installation of System			X					
09 65 00		Resilient Flooring								
	1.02	Product Data							X	
		Shop Drawings						X		
		Samples					X			
		Operation and Maintenance Data			X					
09 77 01		Fiberglass-Reinforced Plastic (FRP) Panel Walls								
		Samples					X			
09 90 00		Painting and Coating								
	1.03	Shop Drawings						X		
		Samples					X			
		Applicator's Qualification								X
		Manufacturer's Certification of Factory Applied Coatings								X
		Manufacturer's Written Verification of Materials								X
		Slip Resistance Test Results								X
		Finish Coating Manufacturer's Compatibility of Materials Confirmation								X
		Manufacturer's Instructions for Paint Application							X	
		Coating Manufacturers' Certificate of Compliance	X							
		Sustainable Design Information				X				
09 96 35		Chemical-Resistant Coatings								
	1.03	Shop Drawings						X		
		Submittal Coordination with Painting and Coating Submittal								X
		Manufacturer's Letter of Applicator Qualifications	X							
		Applicator Qualifications	X							
		Manufacturer's Product Qualifications	X							
		Field inspection and test reports	X	X		X				
		Manufacturer's Certificate of Proper Installation	X			X				
		Safety Data Sheets (SDS)				X				
09 97 13		Steel Tank Linings and Coatings								
	1.03	Data sheets							X	

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		Paint System Data Sheet (PSDS), Paint Product Data Sheet (PPDS), and paint colors available							X	
		Detailed chemical and gradation analysis for each proposed abrasive material.							X	
		Samples					X			
		Completed Quality Control record forms.								X
		Manufacturer's written instructions for applying each type of coating.							X	
		Manufacturer's letter stating that the coating and lining system are suitable for the intended service.							X	
		Coating manufacturer's Certificate of Compliance.	X							
		Anticipated tank coating sequence.				X				
		Dehumidification Plan		X						
		Coating Contractor's Qualification	X							
		Shop and field applicator's quality control program			X					
		Manufacturer's written instructions			X					
		Field Testing				X				
10 14 00		Signage								
	1.02	Shop Drawings						X		
		Anchorage and Bracing Data Sheets								X
		Samples					X			
		Manufacturer's Installation Instructions			X					X
		Anchorage and Bracing Calculations		X						
10 28 00		Toilet and Bath Accessories								
	1.03	Shop Drawings						X		
		Distributor's list				X				
		Cleaning Instructions			X					
	1.04	Sustainable Design Information				X				
10 44 00		Fire Protection Specialties and Safety Equipment								
	1.03	Shop Drawings						X		
		Product Data			X					
		Manufacturer's Installation Instructions			X					
		Manufacturer's Certificate of Compliance	X							
		O&M Data			X					
	1.04	Sustainable Design Information				X				
10 51 00		Lockers								
	1.01	Shop Drawings						X		
		Manufacturer's Literature Describing Products Proposed for Use							X	
		Samples					X			
		Anchorage and Bracing Calculations		X						
		Installation Instructions			X					
10 80 00		Miscellaneous Specialties								
	1.02	Product Data							X	
		Color Charts							X	
		Anchorage and Bracing Drawings						X		
		Manufacturer's Installation Instructions			X					
		Manufacturers' cleaning and service instructions			X					
		Anchorage and Bracing Calculations		X						
11 31 00		Appliances								
	1.01	Manufacturer's Literature							X	
12 24 13		Roller Shades								
	1.02	Product Data							X	
		Shop Drawings						X		
		Window Treatment Schedule							X	
		Color Samples					X			
		Maintenance Data			X					
		Special Guarantee				X				

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
12 35 53		Laboratory Casework								
	1.01	Shop Drawings						X		
		Samples					X			
		Anchorage and Bracing Calculations		X						
		Fume Hood Performance Test results				X				
		Qualifications of Manufacturer	X							
13 34 19		Metal Building Systems								
	1.05	Shop Drawings						X		
		Samples					X			
		Structural Calculations		X						
		Anchorage and Bracing Calculations		X						
		Manufacturer's Instructions			X					
		Manufacturer's IAS Quality Certification	X							
		Erector's IAS Quality Certification and Manufacturer's Approval	X							
		Manufacturer's Certificate of Proper Installation	X							
21 13 13		Wet-Pipe Sprinkler Systems								
	1.04	Shop Drawings						X		
		Qualification Data	X							
		Approved Sprinkler Piping Drawings						X		
		Welding Certificates	X							
		Manufacturer's Printed Installation Instructions			X					
		Field Test Reports and Certificates	X	X						
		Field Quality Control Reports		X						
		Operation and Maintenance Data			X					
22 05 48		Vibration Isolation for Plumbing Piping and Equipment								
	1.03	Shop Drawings						X		
		Manufacturer's Installation Instructions			X					
		Certifications	X							
22 07 00		Plumbing Piping Insulation								
	1.02	Product Data							X	
		Proof of Compliance				X				
		Manufacturer's Installation Instructions			X					
22 10 01		Plumbing Piping and Accessories								
	1.03	Product Data Sheets							X	
		Shop Drawings						X		
		Isometric Riser Diagrams								X
		Changes In Location of Equipment Or Piping				X				
		List of Products				X				
		Test Records	X	X						
		Polyethylene (PE) Pipe Submittals			X					
		Certification of Calibration	X							
		Test Report Documentation.		X						
22 30 00		Plumbing Equipment								
	1.02	Product Data							X	
		Seismic Anchorage and Bracing Calculations		X						
		Component and Attachment Testing Seismic Certificate of Compliance	X							
22 40 00		Plumbing Fixtures								
	1.02	Catalog Information and Rough-In Dimensions							X	
23 05 48		Vibration Isolation and Seismic Control for HVAC Piping and Equipment								
	1.04	Shop Drawings for Vibration Isolators						X		
		Product Data							X	
		Manufacturer's Installation Instructions			X					
		Certifications	X							
		Anchorage and Bracing Calculations		X						
23 05 93		Testing, Adjusting, and Balancing for HVAC								

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	1.02	Documentation of Experience Record	X							
		Documentation of AABC or NEBB Certifications	X							
		Detailed Test and Balance Procedures			X					
		Written Verification of Calibration of Testing and Balancing Equipment	X							
		Balancing Log Report		X						
23 07 00		HVAC Insulation								
	1.03	Product Data and Manufacturer's Installation Instructions							X	
		Proof of Compliance	X							
		O&M Data			X					
23 09 00		Instrumentation and Control Devices for HVAC								
	1.04	Complete Specifications, Descriptive Drawings, Catalog cuts, and Descriptive Literature						X	X	X
		Wiring Diagrams						X		X
		Drawings and Schematics of Proposed Control System						X		X
		System Operating Sequences								X
		Complete Points List								X
		Interfaces with HVAC Equipment								X
		Panel Face Layout Drawings						X		
		Damper Actuator Sizing Calculations								X
		Table of Responsibilities of Contractor's Team				X				
		Recommended Procedures			X					
		Manufacturer's Certificate of Compliance	X							
		Manufacturer's Certificate of Proper Installation	X							
		HVAC Equipment Submittal Coordination Confirmation				X				
		Control System Supplier Confirmation	X							
		Control System Supplier's Qualifications and Experience	X							
		Performance Test Plan and Schedule		X		X				
		Test Results	X	X						
		O&M Data			X					
23 09 13		HVAC Controls, Field Components, and Instruments								
	1.02	Shop Drawings						X		
23 23 00		Refrigerant Piping								
	1.03	Manufacturer's Data							X	
		Shop Drawings						X		
		Welding Certificates	X							
		Field Quality Control Test Report	X	X						
		O&M Data			X					
23 31 13		Metal Ducts and Accessories								
	1.03	Product Data							X	
		Record Drawings				X				
	3.17	Ductwork Leakage Test Procedures and Result				X				
23 31 16.16		Thermoset Fiberglass-Reinforced Plastic Ducts and Accessories								
	1.03	Product Data							X	
		Shop Drawings						X		
		Load Calculations								X
		Qualifications	X							
		Anchorage and Bracing Calculations		X						
		Manufacturer's Factory Inspection Report		X						
		Manufacturer's Installation Instructions			X					
		Modification Information				X				
		Seismic Certificate of Compliance	X							
		Leakage Test Results				X				
		Manufacturer's Certificate of Proper Installation	X							
23 34 00		HVAC Fans								
	1.03	Product Data							X	

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		"Or Equal" Equipment						X		X
		Installation Instructions			X					
		Recommended Procedures for Protection and Handling			X					
		Manufacturer's Certificate of Compliance	X							
		Test Reports	X	X						
		O&M Data			X					
23 37 00		Air Outlets and Inlets								
	1.03	Shop Drawings						X		
23 77 00		Air Handling Units								
	1.03	Shop Drawings						X		
		"Or Equal" Equipment						X		X
		Manufacturer's Certificate of Compliance	X							
		Sample copy of guarantee				X				
		Manufacturer's Test Reports	X	X						
		Recommended Procedures for Protection and Handling			X					
		Installation Instructions			X					
		O&M Data			X					
23 81 00		Unitary Air-Conditioning Equipment								
	1.03	Shop Drawings						X		
		Documentation that Media Filter Modules Rated UL Class 1				X				
		Manufacturer's Certificate of Compliance	X							
		Detailed Information on Structural, Mechanical, Electrical, or Other Modifications				X				
		Sample Copy of Guarantee				X				
		Test Reports		X						
		O&M Data			X					
23 82 00		Terminal Heating and Cooling Units								
	1.03	Shop Drawings						X		
		Performance Data							X	
		Complete Specifications, Descriptive Drawings, Catalog Cuts, and Descriptive Literature						X	X	X
		Coating Product Data							X	X
		Finish Color Selection								X
		Performance data							X	
		Recommended Procedures for Protection and Handling			X					
		Test Reports	X	X						
		O&M Data			X					
26 05 02		Basic Electrical Requirements								
	1.05	Manufacturer's Data							X	
		Anchorage and Bracing Drawings and Catalog Information						X	X	X
		Anchorage and Bracing Calculations		X						
26 05 04		Basic Electrical Materials and Methods								
	1.02	Manufacturer's Data							X	
		Anchorage and Bracing Drawings and Cut Sheets						X		X
		Anchorage and Bracing Calculations		X						
26 05 05		Conductors								
	1.02	Product Data							X	
		Cable Pulling Calculations								X
		Factory Test Reports		X						
26 05 10		Network Communication System								
	1.05	Network Site Layout Diagrams						X		X
		Cable Schedule								X
		Component Data							X	
		Manufacturer's Statement that Installer is Certified	X							
		Contractor Qualifications	X							
		Testing and Acceptance Plan		X						

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		Network Cable, Network Components and Network Connection Tests				X				
		Test Documentation				X				
		Manufacturer's Certificate of Compliance	X							
		Manufacturer's Installation Instructions			X					
		Operation and Maintenance Data			X					
26 05 26		Grounding and Bonding for Electrical Systems								
	1.02	Shop Drawings						X		
26 05 33		Raceway and Boxes								
	1.02	Manufacturer's Literature							X	
		Precast Handholes								X
		Cable Tray Systems								X
		Telecommunications Pathway Cable Tray								X
		Equipment and Machinery for Bending Metal Conduits								X
		Method for Bending PVC (< 30 deg)								X
		Anchorage and Bracing Drawings and Cutsheets						X		
		Conduit Layout						X		X
		Anchorage and Bracing Calculations		X						
		Component and attachment testing seismic certificate of compliance	X							
		Manufacturer's Certification of Training	X							
26 05 70		Electrical Systems Analysis								
	1.02	Short Circuit Studies								X
		Protective Device Coordination Studies								X
		Arc Flash Study								X
		Arc Flash Warning Labels								X
		Electronic Files of Final Studies								X
26 08 00		Commissioning of Electrical Systems								
	1.02	Pre-inspection Documents and tests	X			X				
		Energization Plan		X						
		Test or Inspection Reports and Certificates	X	X						
		O&M Data			X	X				
		Programmable Settings				X				
	3.02	Voltage Field Test Report	X	X						
26 09 13		Power Measurement and Control								
	1.03	Instruction Manual							X	
		Special Features, Licensed Programming Software								X
		Potential and Current Schematic Diagrams								X
		Control and Metering Schematic Diagrams								X
		Interconnection Wiring Diagrams								X
		Installation and Mounting Requirements								X
		Descriptive Literature and Renewal Parts Data								X
		Programming Software				X				
		O&M Data			X					
26 14 13		Switchboards								
	1.02	Product Information							X	
		Itemized Bill of Material								X
		Dimensional Drawings						X		
		Operational Description								X
		Schematic Drawings						X		
		Connection and Interconnection Drawings						X		
		Circuit Breakers Characteristics								X
		Bus Data							X	
		Incoming Line Section Equipment Data							X	
		Transformer Section Equipment Data							X	
		Conduit Entrance Locations								X
		Anchoring Instructions and Details							X	

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		Anchoring and Bracing Drawings and Cut Sheets						X		
		Anchoring and Bracing Calculations		X						
		Installation Instructions			X					
		Factory Test Report		X						
		O&M Data			X					
26 20 00		Seismic Certificate of Compliance	X							
	1.04	Low-Voltage AC Induction Motors								
		Descriptive information							X	
		Nameplate data in accordance with NEMA MG 1								X
		Additional Rating Information								X
		Enclosure type and mounting (such as, horizontal, vertical)								X
		Dimensions and total weight						X	X	
		Conduit box dimensions and usable volume						X	X	
		Bearing type								X
		Bearing lubrication								X
		Bearing life								X
		Space heater voltage and watts								X
		Description, ratings, and wiring diagram of motor thermal protection								X
		Motor sound power level in accordance with NEMA MG 1								X
		Maximum brake horsepower required by equipment driven by the motor								X
		Anchoring and Bracing Calculations		X						
		Factory Test Reports		X						
		O&M Data			X					
26 22 00		Seismic Certificate of Compliance	X							
	1.02	Low-Voltage Transformers								
		Descriptive information							X	
		Dimensions and Weight							X	
		Transformer Nameplate Data								X
		Schematic and Connection Diagrams								X
		Anchoring and Bracing Drawings and Cut Sheets						X		
		Anchoring and Bracing Calculations		X						
		Test Report		X						
		Seismic Certificate of Compliance	X							
26 24 16		Panelboards								
	1.02	Manufacturer's Data Sheets							X	
		Shop Drawings						X		
		Tabulation of Features								X
		Anchoring and Bracing Calculations		X						
		Manufacturer's Recommended Installation Instructions			X					
		Seismic Certificate of Compliance	X							
26 24 19		Low-Voltage Motor Control								
	1.03	Descriptive Information							X	
		Itemized Bill of Material								X
		Dimensional Drawings						X		X
		Front Panel Elevations						X		X
		Conduit Entrance Locations						X		X
		Bus Data							X	
		Protective Devices								X
		Anchoring Instructions and Details						X		X
		Anchoring and Bracing Drawings and Cut Sheets						X		
		Typed Tabulation								X
		Diagrams								X
		Anchoring and Bracing Calculations		X						
		Installation Instructions			X					
		Factory Test Report		X						

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		O&M Data			X					
26 27 26		Wiring Devices								
	1.02	Product Data							X	
26 29 23		Low-Voltage Adjustable Frequency Drive System								
	1.04	Controller, Reactor, Harmonic Filter, and Dimensional Drawings						X		
		Maximum Heat Dissipation								X
		Layout of Controller Face						X		X
		Complete System Operating Description								X
		Complete System Schematic Wiring Diagrams						X		X
		Complete System Interconnection Diagrams						X		X
		One-line Diagram of System						X		X
		Description of Diagnostic Features								X
		Descriptive Literature for Control Devices								X
		Itemized Bill of Material								X
		Specific Description of Provisions and Accessories								X
		Anchoring and Bracing Drawings and Cut Sheets						X		
		List of Input/Output Points								X
		Statement of Supplier Qualifications	X							
		Anchoring and Bracing Calculations		X						
		Special Shipping, Storage and Protection, Handling Instructions			X					
		Installation Instructions			X					
		Factory Functional Test Reports		X						
		Certified Test Report		X						
		Field Test Reports		X						
		Seismic Certificate of Compliance	X							
		Suggested Spare Parts List for 5 Years				X				
		List of Special Tools, Materials, Supplies Furnished with Equipment				X				
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
26 32 13.13		Diesel Engine Generator Set								
	1.02	Dimensional Drawings						X		
		Specification Compliance Statement								X
		Engine and Generator weight and anchoring requirements								X
		Catalog Information and technical description							X	
		List of accessories								X
		Performance Curves								X
		Transient and Subtransient Reactances								X
		Output Waveform and Telephone Interference Factor								X
		Circuit Breaker Data								X
		Cable Termination Lug Data Sheets							X	X
		Control Panel Instrument Identification Inscriptions							X	X
		Samples Guarantee								X
		Electric Schematic and Wiring Diagrams						X		
		Jacket Water or Block Heater Size and Voltage								X
		Noise Data								X
		Anchorage and Bracing Drawings and Cut Sheets						X		
		Anchorage and Bracing Calculations		X						
		Generator Enclosure Calculations		X						
		Manufacturer Qualifications	X							
		UL 2200 Certification or Independent Certification	X							
		Certificate of Compliance	X							
		Certification, Copies of Analyses or test reports	X	X						
		Component and Attachment Testing Seismic Certificate of Compliance	X							
		Factory Test Report		X						
		O&M Data			X					

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		Description of Parts and Service Availability			X					
		Certificate of Proper Installation	X							
		Special Guarantee				X				
		Air Quality Permit				X				
26 36 23		Automatic Transfer Controller								
	1.02	Product Information							X	
		Dimensional Drawings						X		
		Control Diagrams						X		
		Conduit Entrance Locations						X		X
		Equipment Ratings								X
		Anchorage and Bracing Drawings and Cut Sheets						X		
		Anchorage and Bracing Calculations		X						
		Certificate of Compliance	X							
		Factory Test Report		X						
		Component and Attachment Testing Seismic Certificate of Compliance	X							
		O&M Data			X					
26 41 00		Facility Lightning Protection								
		Reproducible Electronic Drawings						X		
		Down Conductor								X
		Connecting Conductor								X
		Bond Strap								X
		Air Terminals								X
		Fittings								X
		Connectors								X
		Ground Rods								X
		Field Test Report		X						
26 42 01		UL 96 Master Label Certification	X							
		Pipe Bonding and Test Stations								
	1.03	Product Information							X	
		Specialist Qualification	X							
		Factory Test Reports								X
		Proposed Test Method							X	
		Solid State Decoupler Design Details						X		
		Solid State Decoupler Manufacturer's Proposed Method of Installation							X	
		Manufacturer's Certificate of Compliance	X							
		Field Test Reports		X						
		Pipe Isolation from Reinforcing Steel Test Results	X							
26 43 00		Surge Protection Devices								
	1.02	Product Data							X	
		Electrical Single-Line Diagram								X
		Manufacturer's UL Certified Test Data							X	X
26 50 00		Lighting								
	1.02	Shop Drawings						X		
		Anchorage and Bracing Calculations		X						
		Installation Instructions			X					
		O&M Data			X					
		Certification for Compliance	X							
28 31 00		Fire Alarm and Detection								
	1.05	Shop Drawings						X		
		Operation and Maintenance Data			X					
		Field Test Reports		X						
		Pro-rated warranty for batteries				X				
		Spare Pats				X				
31 10 00		Site Clearing								
	1.02	Overall Site Plan						X		

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		Survey Information				X				
31 21 13		Radon Mitigation								
	1.05	Product Data							X	
		Worker Protection Plan		X						
		Medical Certification	X							
		Worker Notification				X				
		Contractor Qualifications	X							
		Testing Laboratory Certifications	X							
		Proof of Current Calibration for Testing Devices				X				
		Manufacturer's Instructions			X					
		Radon Detector Location Log				X				
		Respirator Program Records		X						
31 23 16		Excavation								
	1.02	Excavation Plan		X						
		Excavation Equipment Technical Data			X					
31 23 23		Fill and Backfill								
	1.03	Gradation Test Results for Imported Materials								X
		Gradation Test Results for Processed Earthfall Material Samples					X			X
		Manufacturer's data sheets for compaction equipment			X					
		Certified test results from independent testing agency	X							
31 23 23.15		Trench Backfill								
	1.03	Shop Drawings						X		
		Samples					X			
		Catalog and Manufacturer's Data Sheets			X					
		Certified Gradation Analysis	X							
		Certified Mix Design and Test Results for Controlled Low Strength Material	X							
31 32 19.16		Geotextile								
	1.03	Shop Drawings						X		
		Certifications from Geotextile Manufacturer	X							
31 37 00		Riprap								
	1.03	Shop Drawings						X		
		Quarry Certificate of Conformance	X							
		Trip Tickets				X				
32 01 90		Tree and Shrub Preservation								
	1.03	Proposed methods, materials, and schedule for effecting tree and plant protection shall be submitted for approval.		X						
		Certifications	X							
		Licenses				X				
32 11 23		Aggregate Base and Subbase Courses								
	1.03	Samples					X			
		Certified Test Results on Source Materials	X							
		Certified Results of In-Place Density Tests from Independent Testing Agency	X							
		Sustainable Design Information				X				
32 12 16		Asphalt Paving								
	1.05	Samples					X			
		Asphalt Concrete Mix Formula				X				
		Test Report for Asphalt Cement	X	X						
		Manufacturer's Certificate of Compliance	X							
		Statement of Qualification	X							
		Test Results	X							
		WMA Mix Design Information				X				
32 13 13		Concrete Paving								
	1.03	Product Data							X	
		Design Data							X	

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
		Jointing Drawings						X		
		Gradation for Aggregates								X
		Detailed Plan for Cold Weather Placements								X
		Detailed Plan for Hot Weather Placements								X
		Manufacturer's Certificate of Compliance	X							
		Statement of Qualification	X							
		Test Results	X							
		Concrete Delivery Tickets				X				
32 16 00		Sidewalks, Curbs and Gutters								
	1.02	Form Material							X	
		Concrete Mix Data							X	
		Manufacturer's Certificate of Compliance	X							
		Delivery Ticket				X				
32 17 23		Pavement Markings								
	1.02	Shop Drawings						X		
		Samples					X			
		Description of Proposed Methods for Removal				X				
		Manufacturer's Certificate of Compliance	X							
		Equipment List				X				
		Manufacturer' Instructions			X					
32 31 13		Chain Link Fences and Gates								
	1.03	Shop Drawings						X		
		Samples					X			
		Test Reports								X
		Manufacturer's Recommended Installation Instructions			X					
		Evidence of Supplier and Installer Qualifications	X							
		Operation and Maintenance Data			X					
32 32 17		Precast Modular Block Gravity Retaining Wall								
	1.06	Product Data							X	
		Installer Qualification Data								X
		Design Calculations								X
		Construction Drawings						X		
		Block Face Samples					X			
32 84 00		Planting Irrigation								
	1.05	Product Data				X			X	
		Record Drawings				X				
		Controller Charts								
32 91 13		Soil Preparation								
	1.05	Product Data							X	
		Material Certificates	X							
		Samples					X			
32 92 00		Turfs and Grasses								
		Product Data Sheets							X	
		Samples					X			
32 92 13		Hydro-Mulching								
	1.05	Manufacturer's literature, certifications, or laboratory analytical data	X							
32 93 00		Plants								
	1.06	Product Data							X	
		Plant Photographs								X
		Samples					X			
	1.07	Qualification Data	X							
		Product Certificates	X							
		Manufacturer's Instructions			X					
		Sample Warranty				X				
33 05 13		Manholes								

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
	1.02	Shop Drawings						X		
		Product Data							X	
		Experience Record			X					
		Calculations								
		Certificate of Compliance	X							
		Test Reports	X	X						
		Manufacturer's recommended installation instructions			X					
		Field quality control report		X						
33 12 17.01		Surge Tank								
	1.03	Shop Drawings						X		
		Anchorage and Bracing Calculations		X						
		Statements of Qualification	X							
		Tank Manufacturer's Written Instructions			X					
		Manufacturer's Certificate of Compliance	X							
		Test Reports		X						
		Manufacturer's Certificate of Proper Installation	X							
		NSF Certifications	X							
33 12 19		Water Utility Distribution Fire Hydrants								
	1.02	Catalog Cuts of System Components							X	
		Thrust Block Calculations								X
		Certificate of Compliance	X							
33 41 01		Storm Drain Piping								
	1.02	Manufacturers Certificate of Compliance	X							
		Manufacturer's Data Sheets and Installation Instructions			X					
35 20 16.25		Fabricated Slide Gates and Stop Gates								
	1.03	Shop Drawings						X		
		Anchorage and bracing calculations		X						
		Manufacturer's Certificate of Compliance	X							
		Special shipping, storage and protection, and handling instructions			X	X				
		Manufacturer's written/printed installation instructions			X					
		Routine maintenance requirements prior to plant startup				X				
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
40 05 15		Piping Support Systems								
	1.03	Catalog Information and Drawings of Piping Support System						X		
		Calculations								X
		Revisions to support systems resulting from changes in related piping system layout or addition of flexible joints								X
		Anchoring and Bracing Drawings and Cut Sheets						X		
		Seismic Anchorage and Bracing Calculations		X						
		Seismic Certificate of Compliance	X							
		Maintenance Information			X					
40 05 33	1.2	Pipe Heat Tracing								
		Manufacturer's Descriptive Literature							X	
		Pipe Plastic Installations							X	
		Pipe Heat Loss Calculations								X
40 27 00		Process Piping - General								
	1.04	Shop Fabricated Piping								X
		Pipe Wall Thickness								X
		Dissimilar Buried Pipe Joints								X
		Pipe Corrosion Protection								X
		Anchorage and Bracing Drawings and Cut sheets						X		
		Manufacturer's Certification of Compliance	X							
		Anchorage and bracing calculations		X						
		Qualifications	X							

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		Non Destructive Inspection and Testing Procedures			X					
		Welding Procedures			X					
		Test Logs	X							
		Pipe Coating Applicator Certification	X							
		Laboratory Testing Equipment	X			X				
		CWI Inspection Records and NDE Test Records	X							
		Seismic Certificate of Compliance	X							
		Torquing Requirements and Procedures				X				
40 27 00.01		Cement Mortar And Glass Lined Ductile Iron Pipe and Fittings								
		Source Manufacturing Facility Experience Certification	X							
40 27 00.10		Polyvinyl Chloride (PVC) Pipe and Fittings								
		Certification	X							
40 27 00.11		Chlorinated Polyvinyl Chloride (CPVC) Pipe and Fittings								
		Certification	X							
40 27 01		Process Piping Specialties								
	1.02	Manufacturer's Data							X	
		Metal Bellows Field Finishing								X
		Chemical Injectors								X
		Coupling Harness				X				
		Basket Strainer				X				
		O&M Data			X					
40 27 02		Process Valves and Operators								
	1.02	Shop Drawings						X		
		Anchorage and bracing calculations		X						
		Manufacturer's Certification of Compliance	X							
		Seismic Certificate of Compliance	X							
		Tests and Inspection Data	X							
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
40 42 13		Process Piping Insulation								
	1.02	Manufacturer's Literature							X	
		Maintenance Information			X					
40 80 01		Process Piping Leakage Testing								
	1.01	Testing Plan	X	X						
		Certifications of Calibration	X							
		Certified Test Report	X							
40 90 00		Instrumentation and Control for Process Systems								
	1.05	Bill of Materials								X
		Catalog Cuts							X	
		Instrument List								X
		Component Data Sheets							X	
		Sizing and Selection Calculations								X
		Preliminary Panel Elevation Drawings						X		
		Panel Construction Drawings						X		
		Diagrams						X		X
		Panel Power Requirements and Heat Dissipation							X	X
		Installation Details								X
		Spares, Expendables, and Test Equipment							X	
		PLC I/O List								X
		Color Schedule for Control Panels								X
		Applications Software Documentation								X
		Shop Drawings for Changes Impacting PLC and SCADA Programming						X		
		Proposed Submittal Breakdown								X
		Statement of Qualification	X							
		O&M Data			X					

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		Manufacturer's Certificate of Proper Installation	X							
		Testing Related Submittals	X							
		Contracting Officer Training Plan		X						
		Maintenance Service Agreement				X				
		Manufacturer Service Support for Network and SCADA Equipment				X				
	1.08	Schedule				X				
	1.09	Records of Inspection, Maintenance, Calibration, Repair and Replacement				X				
	2.13	Factory Demonstration Tests	X							
41 91 00		Instrumentation and Control Components								
	1.03	Bill of Materials								X
		Catalog Cuts							X	
		Instrument List								X
		Component Data Sheets							X	
		Sizing and Selection Calculations								X
		Preliminary Panel Elevation Drawings						X		
		Panel Construction Drawings						X		
		Diagrams						X		X
		Panel Power Requirements and Heat Dissipation							X	X
		Installation Details								X
		Spares, Expendables, and Test Equipment							X	
		PLC I/O List								X
		Color Schedule for Control Panels								X
		Applications Software Documentation								X
		Shop Drawings for Changes Impacting PLC and SCADA Programming						X		
		Proposed Submittal Breakdown								X
		Statement of Qualification	X							
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
		Testing Related Submittals	X							
		Contracting Officer Training Plan		X						
		Maintenance Service Agreement				X				
		Manufacturer Service Support for Network and SCADA Equipment				X				
40 92 01		Control Panels								
	1.05	Product Information							X	
		Layout Drawings						X		
		Diagrams								X
		Bill of Materials								X
		Shop Drawings						X		
		Operation and Maintenance Manuals			X					
		Factory Demonstration Tests				X				
		Record Drawings				X				
		Anchorage and Bracing Calculations		X						
40 92 07		Network Components								
	1.03	Purchase Quotation								X
		Order Confirmation Summary								X
		Data Sheets							X	
		Operation and Maintenance Information			X					
		Manufacturer's Manuals			X					
		List of spares, expendables, test equipment and tools provided			X					
		List of additional recommended spares, expendables, test equipment and tool			X					
40 96 00		Application Software								
	1.06	Loop Specification and P&ID Submittals								X
		Process Reports Submittals								X
		PLC Software Submittals								X
		PLC Software Standards								X

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		SCS Standards								X
		Presoftware Development Submittal								X
		Software Design Submittal								X
		Schedule of Values and Progress Schedule				X				
		Government Training Plan		X						
		Test Forms				X				
		Test Procedures			X					
		Test Documentation				X				
		Operation and Maintenance Manuals			X					
40 99 90		Package Control Systems								
	1.03	Bill of Materials								X
		Catalog Information and Drawings of Piping Support System						X		
		Shop Drawings						X		
		Diagrams								X
		Load Calculations								X
		Control Logic Descriptions								X
		Programmable Controller and OIT Submittals								X
		Seismic Anchorage and Bracing Data Sheets and Drawings						X		
		Seismic Anchorage and Bracing Calculations		X						
		Programmable Controller Submittals				X				
		PLC and OIT Programs				X				
		List of proposed spares, expendables and test equipment			X					
		Manufacturer's Certificate of Proper Installation	X							
41 22 23.19		Monorail Hoists								
	1.03	Shop Drawings						X		
		Power and Control Wiring Diagrams								X
		Motor Nameplate								X
		Factory Finish System								X
		Factory Functional Test Reports	X							
		Structural Design Calculations		X						
		Special shipping, storage and protection, and handling instructions			X					
		Installation Instructions			X					
		Suggested Spare Parts List			X					
		List of Special Tools, Materials, Supplies Furnished with Equipment			X					
		O&M Data			X					
		Field Performance Test Procedures			X					
		Manufacturer's Certificate of Proper Installation	X							
		Field Functional and Performance Test Reports and Log	X	X						
		Load Test Report and Certifications	X	X						
43 22 56.01		Submersible Mixers								
	1.03	General Layout, Mast, Complete Engineering Description, and Performance Characteristics							X	X
		Size, Details, and Complete List of Materials							X	X
		Details of Control Panel and Wiring Schematics								X
		Commissioning Reports								X
		Installation Manuals			X					
		O&M Data			X					
43 22 56.02		Vertical Mixers								
	1.04	Manufacturer Product Literature							X	
		Drawings						X		
		Anchorage and Base Details							X	X
		Materials of Construction								X
		Computational Fluid Dynamics (CFD)								X
		Motor Submittals								X
		Statement of Compliance by a licensed mechanical engineer								X

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		Mixer weights and loads transmitted to the supporting structure								X
		Anchorage and bracing drawings						X		
		Clean water oxygen transfer efficiency test plan								X
		Mixing performance test plan.								X
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
		Manufacturer's installation instructions.			X					
		Anchorage and bracing calculations		X						
		Design calculations by a registered engineer demonstrating that the equipment performance requirements are met.		X						
		Test Reports		X						
		Clean water oxygen transfer efficiency results for five full-scale clean water oxygen transfer tests per ASCE 2.				X				
43 32 56		Membrane Equipment System (Membrane Bioreactor)								
		Compliance and Qualification Documentation	X							
		Exceptions to Contract Documents				X				
		Shop Drawings						X		
		Proposed Method for Removal and Flushing								X
		Operation and Maintenance Manuals			X					
		Executed Warranties				X				
		Supplier Certificate of Proper Installation	X							
		Data Summary from Testing and Startup Period				X				
		Operator Interface Unit (OIU) Screens				X				
		PLC Ladder Logic Program				X				
		OIU Development Software				X				
		PLC Ladder Logic Programming Software				X				
43 40 01		Polyethylene Storage Tank								
	1.05	Shop Drawings						X		
		Samples					X			
		Fabricator's Certificate of Compliance	X							
		Quality Assurance Inspection	X			X				
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Fabricator's Written/Printed Installation and Tank Support Instructions				X				
		Manufacturer's Certificate of Proper Installation	X							
		O&M Data			X					
43 41 14		Welded Steel Tanks								
	3.04	Description of QA/QC procedures and quality program.								X
		Tank design criteria							X	
		Materials of construction								X
		Equipment weight empty and full of water.								X
		Shell, floor and roof plate thicknesses.								X
		External and internal painting/coating materials.							X	
		Shop drawings						X		
		Nozzle details						X	X	
		Internal component details						X	X	
		Attachment details						X	X	
		External and internal painting/coating materials, preparation and application procedures.							X	
		Anchor bolt details.						X	X	
		Design calculations		X						
		Manufacturer's design datasheet							X	
		Fabrication and Test Procedures								X
		Color Sample of Exterior Finish					X			
		Recommended installation and bedding procedures			X					
		Nondestructive test reports and certifications.	X	X						

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
44 42 19.04		Rotary Positive Displacement Blower								
	1.05	Shop Drawings						X		
		Samples					X			
		Anchorage and Bracing Calculations		X						
		Manufacturer's Certificate of Compliance	X							
		Factory Calculated Sound Levels (dBA)				X				
		Identification of Outside Utility Requirements for Each Component				X				
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Written Installation Instructions			X					
		List of Special Tools, Materials, and Supplies			X					
		Suggested Spare Parts List			X					
		Routine Maintenance Requirements Prior to Plant Startup				X				
		Test Reports		X						
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
44 42 28		Weir and Baffle Plates								
	1.02	Shop Drawings						X		
		Sample					X			
		Manufacturer's Certificate of Compliance	X							
44 42 30		Inclined Rotating Drum Screens								
	1.02	Shop Drawings						X		
		Manufacturer's Certificate of Compliance	X							
		Seismic Anchorage and Bracing Calculations		X						
		Manufacturer's Installation Instructions			X					
		Field Functional Test Report		X						
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Factory Test Report of Inspection		X						
		Manufacturer's Certificate of Proper Installation	X							
		Field Functional Test Reports	X	X						
		O&M Data			X					
44 42 31		Septage Receiving System								
	1.02	Manufacturer's Catalog Information							X	
		Detailed Structural, Mechanical, and Electrical Drawings						X		
		Complete Motor Nameplate Data								X
		Functional Description of Internal and External Instrumentation and Controls								X
		Control Panel Elevation Drawings						X		
		Power and Control Wiring Diagrams						X		X
		External Utility Requirements								X
		Factory Finish System								X
		Manufacturer's Recommended List of Spare Parts								X
		List of Twenty Installations in the U.S.A								X
		Data from a Minimum of 20 Unloading Operations of Septage tankers								X
		Data from a Minimum of 20 Clean Water hydraulic Tests Measured after a Minimum of 1 Year of Operation								X
		Data from Three Separate Tests to Demonstrating Compliance with the "Paint Filter Test"								X
		Sizing Calculations for Panel Mounted Air Conditioner								X
		Factory Test Report of Inspection		X						
		Manufacturer's Certificate of Compliance	X							
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Manufacturer's Certificate of Proper Installation	X							
		O&M Manuals and Maintenance Summary			X					
44 42 35		Floating Decaners								
	1.03	Shop Drawings						X		

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		Manufacturer's Certificate of Proper Installation	X							
44 42 40		Grit Concentrator								
	1.03	Shop Drawings						X		
		Manufacturer's Reference of Listing of Previous Installations								
		Anchorage and Bracing Calculations		X						
		Manufacturer's Certificate of Compliance	X							
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Routine Maintenance Requirements Prior to Plant Startup			X					
		Manufacturer's Certificate of Proper Installation	X							
		Operation and Maintenance Data			X					
44 42 41		Grit Washing and Dewatering Unit								
	1.04	Shop Drawings						X		
		Seismic Anchorage and Bracing Calculations	X							
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Installations Instructions			X					
		Manufacturer's Certificate of Compliance	X							
		Factory Applied Coating System Certification	X							
		Routine Maintenance Requirements Prior to Plant Startup			X					
		Manufacturer's Certificate of Proper Installation	X							
		O&M Data			X					
44 42 48.04		Automatic Composite Sampler (Refrigerated, Peristaltic Type)								
	1.02	Shop Drawings						X		
		Factory Functional Test Reports and Log		X						
		Manufacturer's Certificate of Compliance	X							
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Routine Maintenance Requirements Prior to Plant Startup			X					
		Suggested Spare Parts List for 1 Year			X					
		List Special Tools, Materials, and Supplies Furnished with Equipment			X					
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
		Factory Test Reports		X						
		Service Records for Maintenance Performed during Construction				X				
44 42 56.04		Submersible Pumps								
	1.03	Make, Model, Weight, and Horsepower of Each Equipment Assembly								X
		Complete Catalog Information							X	
		Performance Data Curves								X
		Variable Speed Curves For Variable Speed Motors								X
		Power and Control Wiring Diagrams								X
		Motor data								X
		Adjustable Frequency Drive Data								X
		Factory-Finish System								X
		L-10 Bearing Life Calculations								X
		Wiring for Motor Protection Module								X
		Seismic Anchorage and Bracing Drawings and Cut Sheets								X
		Seismic Anchorage and Bracing Calculations		X						
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Factory and Field Performance Test Reports and Log		X						
		Manufacturer's Certificate of Compliance	X							
		Suggested Spare Parts List for 5 Years			X					
		Special Tools, Materials, and Supplies Furnished with Equipment			X					
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							

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			CERTIFICATIONS OR LABORATORY TESTS	REPORTS OR CALCULATIONS OR PLAN	MANUFACTURER DATA AND INSTRUCTIONS	OTHER	SAMPLES	SHOP DRAWINGS	MANUFACTURER DATA AND INSTRUCTIONS	OTHER
44 42 56.09		Non-Clog Dry Pit Centrifugal Pumps								
	1.03	Shop Drawings						X		
		Seismic Anchorage and Bracing Calculations		X						
		Manufacturer's Design Analyst Qualifications	X							
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Factory Functional and Performance Test Reports and Log		X						
		Field and Performance Test Reports		X						
		Manufacturer's Certificate of Proper Installation	X							
		Suggested Spare Parts List			X					
		Special Tools, Materials, and Supplies Furnished with Equipment			X					
		O&M Data			X					
44 42 56.11		Vertical Wet-Pit Centrifugal Pumps								
	1.04	Make, Model, Weight, and Horsepower of Each Equipment Assembly							X	
		Complete Catalog Information							X	
		Plan and Section Dimensional Outline Drawings						X		
		Performance Data Curves								X
		Certified detail mechanical, and electrical drawings						X		
		Variable Speed Curves For Variable Speed Motors								X
		Lateral and torsional critical speed analysis								X
		Structural response frequency analysis								X
		Power and Control Wiring Diagrams								X
		Motor data								X
		Factory-Finish System								X
		Seismic Anchorage and Bracing Drawings and Cut Sheets						X		
		Seismic Anchorage and Bracing Calculations		X						
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Factory and Field Performance Test Reports and Log		X						
		Suggested Spare Parts List for 5 Years			X					
		Special Tools, Materials, and Supplies Furnished with Equipment			X					
		O&M Data			X					
44 42 56.13		Progressing Cavity Pumps								
	1.04	Shop Drawings						X		
		Anchorage and Bracing Calculations		X						
		Factory Functional Test Reports		X						
		Manufacturer's Certificate of Compliance	X							
		Special shipping, storage and protection, and handling instructions			X					
		Manufacturer's printed installation instructions			X					
		Suggested Spare Parts List			X					
		List of Special Tools, Materials, Supplies Furnished with Equipment			X					
		Operation and Maintenance Data			X					
		Manufacturer's Certificate of Proper Installation	X							
44 42 56.14		Lobe Pumps								
	1.03	Shop Drawings						X		
		Seismic Anchorage and Bracing Calculations		X						
		Factory Functional and Performance Test Reports		X						
		Manufacturer's Certificate of Compliance	X							
		Source quality control test reports in accordance with Article Quality Assurance.		X						
		Field quality control test reports in accordance with Article Service Condition.		X						
		Special shipping, storage and protection, and handling instructions			X					
		Manufacturer's written/printed installation instructions			X					
		Suggested Spare Parts List			X					
		List of Special Tools, Materials, Supplies Furnished with Equipment			X					
		O&M Data			X					

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		Manufacturer's Certificate of Proper Installation	X							
44 42 56.18		Horizontal Self-Priming Centrifugal Pumps								
	1.03	Shop Drawings						X		
		Seismic Anchorage and Bracing Calculations		X						
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Manufacturer's Certificate of Factory Tests	X							
		List of Special Tools, Materials, Supplies Furnished with Equipment			X					
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
		Field Performance Test Reports and Log		X						
44 44 13.01		Chemical Metering Pumps								
		Shop Drawings						X		
		Seismic Anchorage and Bracing Calculations		X						
		Manufacturer's Certificate of Compliance	X							
		Factory Functional and Performance Test Reports		X						
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					
		Suggested Spare Parts List			X					
		List of Special Tools, Materials, Supplies Furnished with Equipment			X					
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
44 44 73		Ultraviolet Disinfection Equipment for Wastewater								
	1.05	List of Mechanical Components							X	
		Bill of Materials								X
		Product Information							X	
		Control Strategy								X
		Calculations								X
		Graph of MS2 RED versus flowrate								X
		Drawings						X		
		Controls								X
		Instrumentation and Control System Descriptions								X
		Input power voltage, frequency, and phase requirements, total system maximum power load, power quality thresholds, and ballast turndown capabilities.								X
		Specifications for interconnecting cables between UV equipment, including voltage ratings, insulation type, conductor material and cable/conductor outside diameter, and maximum cable length.								X
		Lamp data, including watt rating, initial lumen output, lamp aging factors, average lumens, and total mercury content.								X
		Description of automatic lamp sleeve cleaning process and maintenance requirements.								X
		Description of UVT analyzer; include operation and maintenance requirements necessary for compliance with EPA requirements.								X
		Details of duty and reference UV intensity sensors								X
		Estimated power consumption								X
		Data on harmonic filters								X
		Seismic anchorage and bracing drawings						X		
		Outline Drawings						X		
		Factory Test Results								X
		Manufacturer's Field Report								X
		Test procedures for factory and field testing								X
		Test results, reports, and certifications.								X
		Validation Testing				X				
		Third-party certification of ELAF and QSFF.	X							
		Manufacturer's design, supporting calculations, and layout of anchor bolts.			X					

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		Seismic anchorage and bracing calculations		X						
		Manufacturer's printed installation instructions.			X					
		List of replaceable system components				X				
		Manufacturer's instructions			X					
		Operation and Maintenance Data			X					
		Factory Test Report, data sheets, and witness report		X						
		Functional Test Plan		X						
		Functional Testing Report		X						
		Bioassay Spot Check Commissioning Plan		X						
		Bioassay Spot Check Commissioning Report		X						
		Performance Test Plan		X						
		Performance Testing Report		X						
		As-Built PLC and OIT Programs				X				
		Ladder Logic Listings				X				
		Service records for maintenance or calibration reports		X						
		Guaranteed replacement pricing as listed in Article Special Guarantee.				X				
		Manufacturer's Certificate of Proper Installation	X							
44 45 13.11		Package Biofilter System								
	1.03	Shop Drawings						X		
		Field Performance Test Plan and Report	X	X						
		Warranty Statements for Media and Biofilter System				X				
		Special Shipping, Storage and Protection, Handling Instructions			X					
		Manufacturer's Written/Printed Installation Instructions			X					
		Factory Quality Control Report		X						
		Vessel Design Statement				X				
		Manufacturer and System Supplier General Information			X					
		Suggested Spare Parts			X					
		List of Special Tools, Materials and Supplies			X					
		O&M Data			X					
		Manufacturer's Certificate of Proper Installation	X							
		Training Schedule and Program				X				
		Anchorage and Bracing Calculations		X						
44 45 16.02		Fine Bubble Air Diffuser System								
	1.05	Shop Drawings						X		
		Calculations by a Registered Professional Engineer		X						
		Calculations Relating to Proposed Anchor Spacing, Diameter, and Embedment		X						
		Anchorage and Bracing Calculations		X						
		Factory Test Results, Reports, and Certifications	X	X						
		Manufacturer's Certificate of Compliance	X							
		O&M Data			X					
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Certificate of Proper Installation	X							
		Manufacturer's Special Guarantee				X				
		Service Records for Maintenance Performed during Construction				X				
44 46 30		Miscellaneous Mechanical Equipment								
	1.05	Shop Drawings						X		
		Anchorage and Bracing Calculations								
		Special Shipping, Storage and Protection, and Handling Instructions			X					
		Manufacturer's Installation Instructions			X					

Submittal List with Review Estimate Template

National Park Service (NPS) - Denver Service Center (DSC) | 1-27-21

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