



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

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**ADDENDUM NO. 1 TO PROJECT NO. Q1641**

**HVAC AND ELECTRICAL WORK  
REPLACE BOILER  
STATE ARMORY  
321 MANOR ROAD  
STATEN ISLAND, NY**

August 17, 2016

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

**HVAC WORK DRAWINGS**

1. Drawing No. H-102:
  - a. Asbestos Abatement Legend, change last sentence in note from “Typ. for 24 fittings and 24 Lin. Ft. Pipe Insulation.” to “Typ. For 38 fittings and 45 Lin. Ft. Pipe Insulation for work indicated on H-102 & H-103.”
2. Addendum Drawing:
  - a. Drawing No. H-103, noted “ADDENDUM DRAWING 08/17/2016” accompanies this Addendum and forms part of the Contract Documents.
3. Drawing No. M-104:
  - a. NOTES, Note 13, Change “10-15-2016” to read “10/15/2017.”

**HVAC WORK SPECIFICATIONS**

4. Page 028213 – 1, Subparagraph 1.01.B.2: Replace subparagraph with the following:
  - “2. First Floor Garage & Second Floor Drill Hall:
    - a. Remove and dispose of pipe insulation and mudded fittings – Typ. For 36 fittings and 45 lf. of pipe insulation.”
5. Schedule of Submittals: Discard the Schedule of Submittals bound in the Project Manual and substitute the attached Schedule of Submittals (13 pages) noted “REVISED 8/17/2016”.

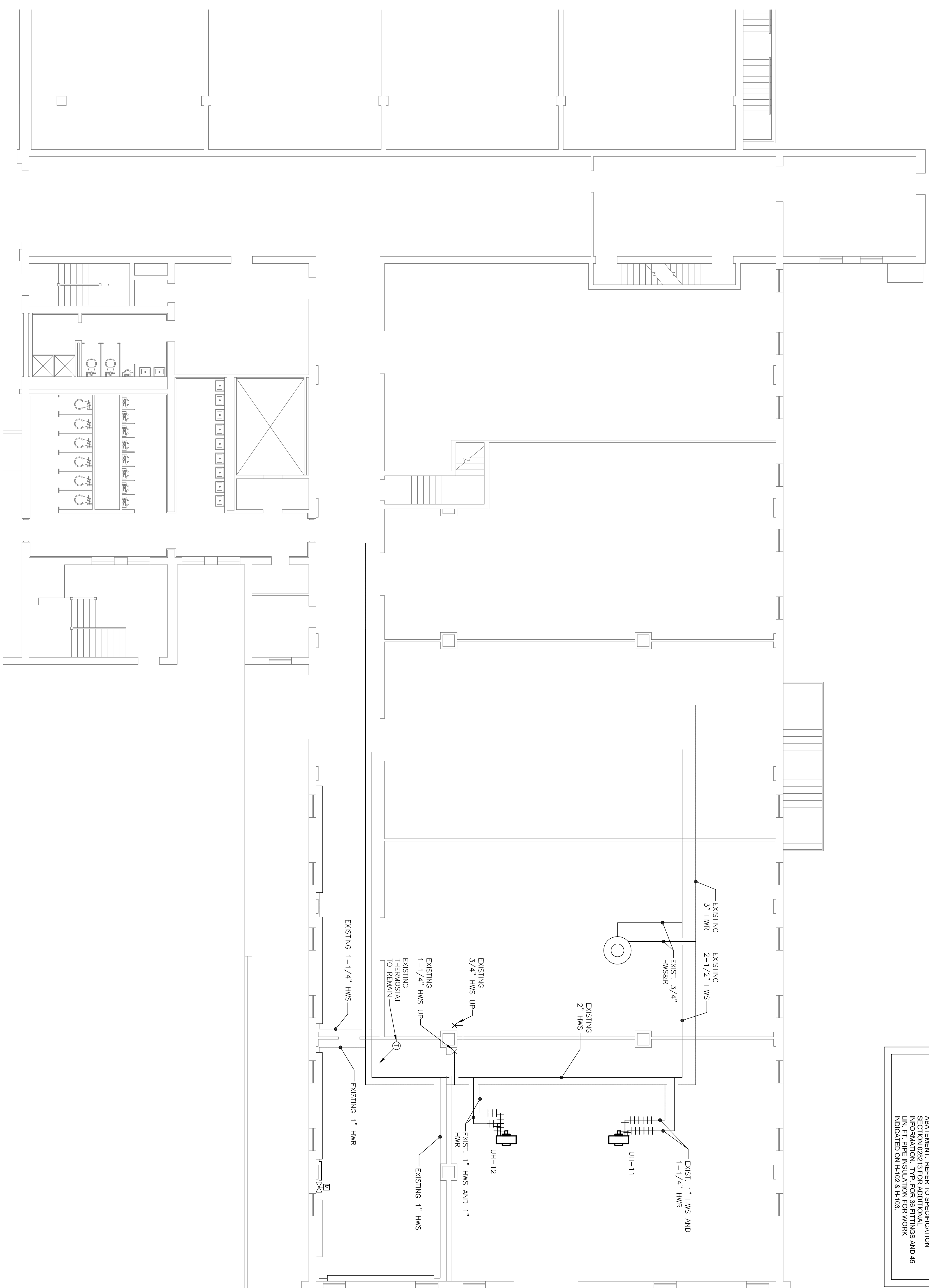
**ELECTRICAL WORK DOCUMENTS**

6. Electrical Work: No Addenda at this time.

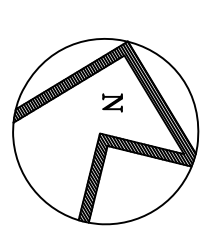
**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction

Updated 07/28/2015  
Printed 08/18/2016

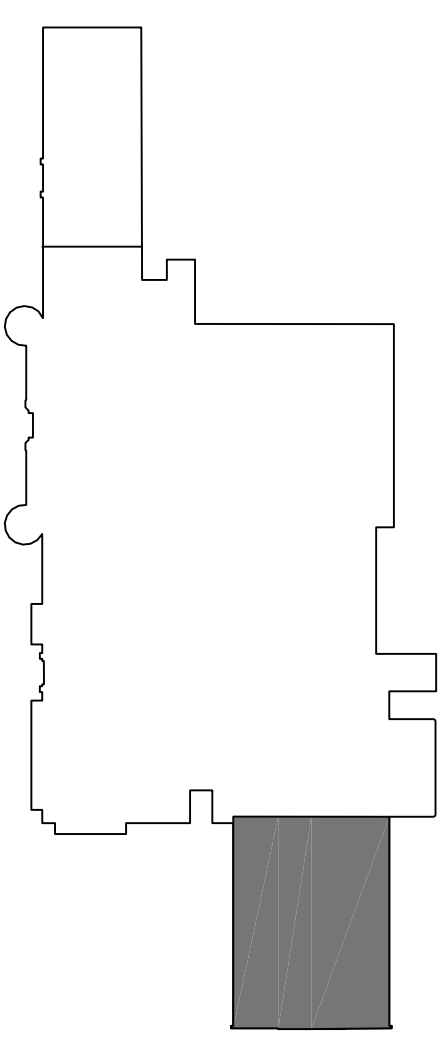


**ASBESTOS ABATEMENT LEGEND:**  
 ++++++ REMOVE AND DISPOSE OF PIPE INSULATION AND MUDDED FITTINGS AS ASBESTOS CONTAINING MATERIAL. PIPE RISERS SHOWN PURPOSES ONLY AND NOT INTENDED TO BE REPRESENTATIVE OF ALL PIPING REQUIRING ABATEMENT. REFER TO SPECIFICATION INFORMATION, TYP. FOR 36 FITTINGS AND 45 LIN. FT. PIPE INSULATION FOR WORK INDICATED ON H-102 & H-103.



**PARTIAL FIRST FLOOR ABATEMENT PLAN**

SCALE: 1/8" = 1'-0"



KEY PLAN

**ADDENDUM DRAWING**

8/17/16



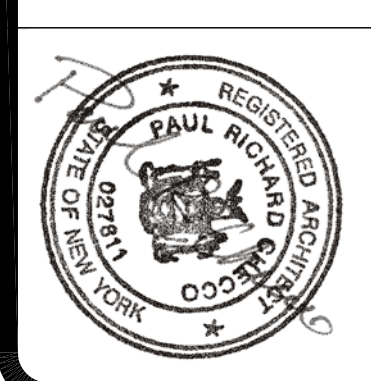
DESIGN & CONSTRUCTION



Environmental Health Associates, Inc.

Environmental Consultants

**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE ENGINEER FOR ASBESTOS, OR A LICENSED ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.



**CONTRACT:**  
 HVAC  
**TITLE:**  
 REPLACE BOILER

**LOCATION:**  
 STATE ARMORY  
 321 MANOR ROAD  
 STATEN ISLAND, NY 10314  
**CLIENT:**  
 DIVISION OF MILITARY  
 AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
	8/17/16	ADDENDUM
<b>PROJECT NUMBER:</b>	Q1641	- H
<b>DESIGNED BY:</b>	AEHA	
<b>DRAWN BY:</b>	PRC	
<b>FIELD CHECK:</b>		
<b>APPROVED:</b>		
<b>SHEET TITLE:</b>	PARTIAL FIRST FLOOR (GARAGE) ABATEMENT PLAN	

**DRAWING NUMBER:**  
 H-103  
**SHEET** 4 **OF** 29



<b>SCHEDULE OF SUBMITTALS - REVISED 8/17/2016</b>	
<b>PROJECT NO.: Q1641-H</b>	
<b>FACILITY: STATEN ISLAND ARMORY</b>	
<b>CONTRACTOR:</b>	
<b>PROJECT MANAGER: RICHARD LIU</b>	
<b>DESIGN CONSULTANT: OGS</b>	
<b>ENGINEER-IN-CHARGE:</b>	
<p style="text-align: center;"><b>LEGEND</b></p> <p><b>PACK:</b> SUBMITTAL PACKAGE</p> <p><b>SD:</b> SHOP DRAWINGS</p> <p><b>PD:</b> PRODUCT DATA</p> <p><b>SAM:</b> SAMPLES</p> <p><b>QCS:</b> QUALITY CONTROL SUBMITTALS</p> <p><b>LEED:</b> LEED SUBMITTALS</p> <p><b>CCS:</b> CONTRACT CLOSEOUT SUBMITTALS</p> <p><b><u>SUBMITTAL REVIEW RESPONSIBILITY:</u></b>  <b>F:</b> OGS FIELD OFFICE  <b>F/O:</b> OGS FIELD OFFICE / OFFICE (ALBANY)  <b>D:</b> CONSULTANT / DESIGNER  <b>S:</b> OGS SCHEDULING DEPARTMENT</p>	<p style="text-align: center;"><b><u>INSTRUCTIONS TO THE CONTRACTOR</u></b></p> <ol style="list-style-type: none"> <li>1. Refer to <b>Section 013300 Submittals</b> of the Project Manual for general requirements regarding submittals and to <b>Section 017716 - CONTRACT CLOSEOUT</b> for project closeout submittals.</li> <li>2. Refer to Sections of the specifications indicated herein for details of the requirements for each submittal listed.</li> <li>3. Indicate in the rows (spaces) following each item:             <ol style="list-style-type: none"> <li>a. Critical submittals and long lead items (mark with an 'X'). Some critical submittals may already be identified by the design team. Confirm that these are critical submittals.</li> <li>b. The date the item will be submitted, and date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for completion of the work in accordance with the Progress Schedule. The date entered for the submittal is the last date a substitution will be considered. Proposed substitutions must be made prior to the date entered if more than one substitution is to be submitted for approval. Spaces which contain N/A do not require dates.</li> </ol> </li> <li>4. An example of a Submittal Transmittal (BDC-42) can be located at: <a href="http://www.ogs.ny.gov/BU/DC/forms/ContractorConstForms.asp">http://www.ogs.ny.gov/BU/DC/forms/ContractorConstForms.asp</a></li> <li>5. Submit Contract Closeout Submittals (CCS) prior to final inspection.</li> </ol> <p style="text-align: center;"><b><u>INSTRUCTIONS TO THE CONSULTANT / DESIGNER</u></b></p> <ol style="list-style-type: none"> <li>1. Cut and paste required information from each Division (Div.X) tab and place in the S.O.S. tab.</li> <li>2. Delete Division (Div.X) tabs after the S.O.S. tab has been in-filled.</li> <li>3. Indicate F, F/O or D in column E. Items in Div.1 have defaults that can be modified as necessary.</li> <li>4. Indicate items that are critical submittals in column F.</li> </ol> <p><b><u>Note:</u></b>            The following list of submittals is furnished for your convenience in scheduling submittals. The list is not warranted to be complete and does not take precedence over the contract documents. Enter additional submittals, as required and modify this schedule to the specific project. This S.O.S. will be used to populate the submittals website log.</p>



SCHEDULE OF SUBMITTALS									
PROJECT NO.: Q1641									
SUBMITTALS FOR APPROVAL					Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description			Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
				F					
				F/O					
				D					
				S					
<b>007213</b>			<b>GENERAL CONDITIONS</b>						
<b>007213</b>		<b>PD</b>	ARTICLE 6: Designate in writing competent supervision and/or management representatives as required - <b>include contact number in case of an emergency after work hours, including weekends and holidays (see 011000 Summary of Work)</b>	F					
<b>007213</b>		<b>PD</b>	ARTICLE 8: Permits and licenses	F					
<b>013113</b>			<b>PROJECT SCHEDULE</b>						
<b>013113</b>		<b>QCS</b>	Initial Spreadsheet	S	X				
<b>013113</b>		<b>QCS</b>	CMU-01 Agreement Form	S	X				
<b>013300</b>			<b>SUBMITTALS</b>						
<b>013300</b>		<b>PD</b>	Schedule of Submittals (This form completed and edited)	F	X				
<b>013300</b>		<b>QCS</b>	Proof of Payment	F	X				
<b>013300</b>		<b>QCS</b>	Submittal Coordinator Qualifications	F/O	X				
<b>017716</b>			<b>CONTRACT CLOSEOUT</b>						
<b>017716</b>		<b>CCS</b>	Project Record Documents	F					
<b>017716</b>		<b>CCS</b>	Operation and maintenance, 2 copies	F					
<b>017716</b>		<b>CCS</b>	Warranties	F					
<b>017716</b>		<b>CCS</b>	Spare Parts and Maintenance Materials	F					
<b>028213</b>			<b>ASBESTOS ABATEMENT</b>						
<b>028213</b>		<b>PD</b>	Disposal Bags	D					
<b>028213</b>		<b>PD</b>	Fireproofing	D					
<b>028213</b>		<b>PD</b>	Glove Bags	D					
<b>028213</b>		<b>PD</b>	Negative Air Pressure Units	D					
<b>028213</b>		<b>PD</b>	HEPA Filters (Negative Air Pressure Units)	D					
<b>028213</b>		<b>PD</b>	HEPA Filters (Respirators)	D					
<b>028213</b>		<b>PD</b>	HEPA Filters (Vacuum Cleaners)	D					
<b>028213</b>		<b>PD</b>	Respirators	D					
<b>028213</b>		<b>PD</b>	Vacuum Cleaners	D					
<b>028213</b>		<b>QCS</b>	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the completed DOSH-751 and DOSH-465 forms	D					
<b>028213</b>		<b>QCS</b>	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the New York State Department of Labor site specific variance decision.	D					
<b>028213</b>		<b>QCS</b>	Notification Compliance Data	D					

# SCHEDULE OF SUBMITTALS

**PROJECT NO.: Q1641**

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
028213		QCS	Work Plan	D				
028213		QCS	Abatement Contractor's Qualifications Data	D				
028213		QCS	Abatement Worker's Qualifications Data	D				
028213		QCS	Testing Lab Qualifications Data	D				
028213		QCS	Waste Transporter Permit	D				
028213		QCS	Landfill Permit	D				
028213		QCS	Waste Shipment Records and Disposal Site Receipts	D				
028213		QCS	Daily Log	D				
028213		QCS	Certificates	D				
028213		QCS	Air Monitoring Data	D				
028213		CCS	Operation and Maintenance Data	F				
<b>CAST-IN-PLACE CONCRETE BROADSCOPE SHORT VERSION</b>								
033001		PACK	Submit product data for design mix(es) and materials for concrete specified below at the same time as a package	D				
033001		SD	Placing drawings for bar reinforcement	D				
033001		PD	Concrete design mix(es)	D				
033001		PD	Portland Cement	D				
033001		PD	Fly Ash	D				
033001		PD	Air-entraining Admixture	D				
033001		PD	Water-reducing Admixture	D				
033001		PD	Aggregates	D				
033001		PD	Lightweight Coarse Aggregates	D				
033001		PD	Chemical Hardener (Dustproofing)	D				
033001		PD	Chemical Curing and Anti-Spalling Compound	D				
033001		PD	Bonding Agent (Adhesive)	D				
033001		PD	Expansion Joint Fillers	D				
033001		PD	Emery Aggregate	D				
033001		QCS	Certificates: Affidavit required under Quality Assurance Article	D				
<b>METAL FABRICATIONS (Broadscope)</b>								
055000		SD	Application to Project: Plenum Support Assembly	D				
<b>FIRESTOPPING</b>								
078400		PACK	Submit the following items specified below the same time as a package: Product Data, Samples, Quality Control Submittals and Firestop Schedule	D				
078400		PD	Firestopping Device and Material	D				
078400		PD	Firestopping Schedule	D				
078400		PD	Through-Penetration Firestop Devices, Forming Materials, And Fill, Void or Cavity Materials	D				
078400		PD	Accessories	D				
078400		PD	Identification Labels	D				
078400		SAM	Each Product requested	D				
078400		QCS	Design Data	D				
078400		QCS	Installer's Qualifications Data	D				

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<b>078400</b>		<b>QCS</b>	Company Field Advisor Data	D				
<b>079200 JOINT SEALERS</b>								
<b>079200</b>		<b>PD</b>	Type 1C Sealant	D				
<b>079200</b>		<b>PD</b>	Type 2 Sealant	D				
<b>079200</b>		<b>PD</b>	Type 4 Sealant	D				
<b>079200</b>		<b>PD</b>	Pre-formed Sealant	D				
<b>079200</b>		<b>PD</b>	Sealant Colors	D				
<b>079200</b>		<b>PD</b>	Joint Primer/Sealer/Conditioner	D				
<b>079200</b>		<b>PD</b>	Backer Rod	D				
<b>079200</b>		<b>PD</b>	Bond Breaker Tape	D				
<b>079200</b>		<b>PD</b>	Cleaning Solvents	D				
<b>079200</b>		<b>SAM</b>	Sealant	D				
<b>079200</b>		<b>SAM</b>	Backer Rods	D				
<b>096723 EPOXY RESIN FLOORING</b>								
<b>096723</b>		<b>PD</b>	Underlayment	D				
<b>096723</b>		<b>PD</b>	Waterproofing	D				
<b>096723</b>		<b>PD</b>	Primer	D				
<b>096723</b>		<b>PD</b>	Sealer	D				
<b>096723</b>		<b>PD</b>	Dividing Strips	D				
<b>096723</b>		<b>PD</b>	Base Bead	D				
<b>096723</b>		<b>PD</b>	Extension Collars for Floor Drains	D				
<b>096723</b>		<b>SAM</b>	Flooring and Base Combination	D				
<b>096723</b>		<b>SAM</b>	Underlayment Components	D				
<b>096723</b>		<b>SAM</b>	Liquid Binder for Reinforcement	D				
<b>096723</b>		<b>SAM</b>	Clear Sealer	D				
<b>096723</b>		<b>QCS</b>	Test Reports	D				
<b>096723</b>		<b>QCS</b>	Certificates - Article 3.01	D				
<b>096723</b>		<b>QCS</b>	Installer's Qualifications Data	D				
<b>096723</b>		<b>QCS</b>	List of Completed Installations	D				
<b>096723</b>		<b>CCS</b>	Maintenance Data - 2 copies	F				
<b>099103 MECHANICAL PAINTING</b>								
<b>099103</b>		<b>PD</b>	Type EAL-3: Exterior Acrylic Latex, Gloss Enamel	D				
<b>099103</b>		<b>PD</b>	Type ESP: Exterior Steel Zinc-Rich Primer, Flat	D				
<b>099103</b>		<b>PD</b>	Type IAL-3: Interior Acrylic Latex, Semigloss Enamel	D				
<b>099103</b>		<b>PD</b>	Type ISP: Interior Steel Primer, Flat.	D				
<b>099103</b>		<b>PD</b>	Type HR-1: Ambient to 350 degrees Fahrenheit	D				
<b>099103</b>		<b>PD</b>	Type CTE: Coal Tar Epoxy	D				
<b>099103</b>			Colors	D				
<b>099103</b>		<b>SAM</b>	Finish Paint Type Samples: Two finish paint samples applied over recommended primers for each substrate to be painted	D				
<b>099103</b>		<b>QCS</b>	Test Reports: Furnish certified test results from an independent testing laboratory	D				
<b>099103</b>		<b>QCS</b>	Certificates of Quality Assurance Article	D				

# SCHEDULE OF SUBMITTALS

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SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
099103		CCS	Extra Materials: Paint Types EAL and IAL: Two gallons	F				
099103		CCS	Extra Materials: Color Coded Paints: One gallon, each type.	F				
099103		CCS	Extra Materials: Other Paint Types: One gallon, each type	F				
<b>220577 FLOOR AND AREA DRAINS</b>								
220577		PD	Type A Floor Drain	D				
220577		PD	Fasteners	D				
220577		CCS	Special Tools for Vandal Resistant Fasteners - One for each type and size	F				
<b>221120 DOMESTIC WATER MIXING VALVES</b>								
221120		PD	Lead Free High Low Thermostatic Water Mixing Valve	D				
<b>223301 HIGH EFFICIENCY DOMESTIC WATER HEATER - GAS</b>								
223301		PD	Water Heater - Gas	D	X			
223301		PD	Condensate Neutralizer Kit	D	X			
223301		PD	Gas Vent Pipe, Fittings and Accessories	D	X			
223301		CCS	Operation and Maintenance Data - 2 copies	F				
223301		CCS	Manufacturer's Warranty: Three year warranty for the glass lined water heater tank	F				
<b>230519 COLD WATER METERS</b>								
230519		PD	Type A (Displacement Meters)	D				
230519		QCS	Test Report - Certified factor test curve	D				
<b>230523 VALVES - Broadscope</b>								
230523		PD	Valve Schedule	D				
230523		PD	Gate Valves - Type A	D				
230523		PD	Gate Valves - Type C	D				
230523		PD	Gate Valves - Type D	D				
230523		PD	Globe and Angle Valves - Type J	D				
230523		PD	Globe and Angle Valves - Type K	D				
230523		PD	Globe and Angle Valves - Type O	D				
230523		PD	Check Valve - Type S	D				
230523		PD	Check Valve - Type U	D				
230523		PD	Check Valve - Type V	D				
230523		PD	Plug Valves - Type AA	D				
230523		PD	Plug Valves - Type AB	D				
230523		PD	Butterfly Valves Type BF	D				
230523		PD	Safety and Relief Valves	D				
230523		PD	Needle Stop Valves	D				
230523		PD	Gage Cocks	D				
230523		PD	Vacuum Relief Valves	D				
230523		PD	Ball Valves	D				
230523		PD	Triple Duty Valve	D				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
230523		PD	Suction Diffuser	D				
230523		PD	2-way Zone Control Valve	D				
230523		PD	Cold Water Make Up Service	D				
230523		QCS	Manufacturing Reports relating to chemical and mechanical properties	D				
230523		CCS	Special tools: One wrench for each type and size wrench operated plug valve	F				
230529			<b>PIPE HANGERS AND SUPPORTS</b>					
230529		SD	Details of trapeze hangers and upper hanger attachments for piping 4 inches in diameter and over.	D				
230529		SD	Details of pipe anchors.	D				
230529		PD	Combination clevis hanger, pipe insulation shield and vapor barrier	D				
230529		PD	Pipe Insulation Shields	D				
230529		PD	Pipe Covering Protection Saddles	D				
230529		PD	Pipe Hangers	D				
230529		PD	Adjustable Floor Rests and Base Flanges	D				
230529		PD	Hanger Rods	D				
230529		PD	Sleeve Anchors	D				
230529		PD	Wedge Anchors	D				
230529		PD	Self-Drilling Anchors	D				
230529		PD	Non-Drilling Anchors	D				
230529		PD	Stud Anchors	D				
230529		PD	Beam Clamps	D				
230529		PD	Riser Clamps	D				
230529		PD	Vibration Isolation for Piping	D				
230529		PD	Shop painting and plating	D				
230529		QCS	Manufacturer's Certificate of Compliance for ASME Piping Codes	D				
230549			<b>CONCRETE PADS FOR EQUIPMENT</b>					
230549		PACK	Submit product data for design mix and materials for concrete specified below at the same time as a package	D				
230549		SD	Placing drawings for bar reinforcement	D				
230549		PD	Concrete design mix with name and location of batching plant	D				
230549		PD	Portland Cement	D				
230549		PD	Fly Ash	D				
230549		PD	Air-Entraining Admixture	D				
230549		PD	Aggregates	D				
230549		PD	Bonding Agent (Adhesive)	D				
230549		SAM	Fabric Reinforcement	D				
230549		SAM	Bar Supports	D				
230549		QCS	Bar reinforcement manufacturer's certification	D				
230550			<b>VIBRATION ISOLATION</b>					



# SCHEDULE OF SUBMITTALS

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SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
230550		SD	Details of intermediate structural steel members and method of attachment required for installation of vibration isolating devices	D				
230550		SD	Design Calculations	D				
230550		SD	Vibration Isolation Base Details	D				
230550		SD	Drawings identifying seismic locations with corresponding details of pre-approved seismic restraints	D				
230550		PD	Combination Rubber and sprink isolators	D				
230552			<b>FLEXIBLE VIBRATION ELIMINATORS</b>					
230552		PD	Metal Flexible Vibration Eliminators - Stainless Steel Units	D				
230553			<b>PIPE AND VALVE IDENTIFICATION</b>					
230553		PD	Snap-on Marker	D				
230553		PD	Strap-on Marker	D				
230553		PD	Stick-On Marker	D				
230553		PD	Pipe Marker Legend and Color Field Sizes	D				
230553		PD	Banding Tapes	D				
230553		PD	Pipe Size Labels	D				
230553		PD	Pipe Service Identification Tags	D				
230553		PD	Valve Service Identification Tags	D				
230553		PD	Valve Service Identification Chart Frames	D				
230719			<b>INSULATION</b>					
230719		PD	Material Schedule	D				
230719		PD	Fibrous Glass (Mineral Fiber) Insulation - Preformed Pipe Insulation	D				
230719		PD	Fibrous Glass (Mineral Fiber) Insulation - Premolded Fitting Insulation	D				
230719		PD	Fibrous Glass (Mineral Fiber) Insulation - Insulation Inserts for PVC Fitting Jackets	D				
230719		PD	Fibrous Glass (Mineral Fiber) Insulation - Block or Board Insulation	D				
230719		PD	Fibrous Glass (Mineral Fiber) Insulation - Blanket Insulation	D				
230719		PD	Flexible Elastomeric Foam Insulation	D				
230719		PD	High Density Jacketed Insulation Inserts for Hangers and Supports	D				
230719		PD	Cements	D				
230719		PD	Laminated Vapor Barrier Jackets for Piping	D				
230719		PD	Canvas Jackets	D				
230719		PD	Premolded PVC Fitting Jackets	D				
230719		PD	Metal Jacketing	D				
230719		PD	Lagging Adhesive (Canvas Jackets)	D				
230719		PD	Vapor Seal Adhesive (Fibrous Glass Insulation)	D				
230719		PD	Vapor Barrier Mastic/Joint Sealer (Fibrous Glass Insulation)	D				
230719		PD	Adhesive (Flexible Elastomeric Foam)	D				

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230719		PD	Adhesive (Fiberglass Duct Liner)	D				
230719		PD	Mastic (Reinforcing Membrane)	D				
230719		PD	Sealant (Metal Pipe Jacket)	D				
230719		PD	Insulation Fasteners for Ductwork and Equipment	D				
230719		PD	Pressure Sensitive Tape for Sealing Laminated Jackets	D				
230719		PD	Wire, Bands, and Wire Mesh	D				
230719		PD	Metal Corner Angles	D				
230719		PD	Reinforcing Membrane	D				
230719		QCS	Installers Qualification Data	D				
<b>230923 DIRECT DIGITAL BUILDING CONTROL SYSTEM</b>								
230923		PACK	Submit the shop drawings, product data, and quality control submittal specified below at the same time as a package	D				
230923		SD	Provide a system architecture drawing that diagrammatically shows all DCPs, their locations	D				
230923		SD	Sketches of all graphics	D				
230923		SD	Graphic penetration tree showing all graphics and all points.	D				
230923		SD	Composite wiring and/or schematic diagrams of the complete system as proposed to be installed	D				
230923		SD	Scaled floor plan and elevation drawings showing location of all major components associated with the system	D				
230923		SD	Scaled drawings of each primary operators station (POS) showing layout of, and indicating the function of each switch, button, lamp, and accessory.	D				
230923		SD	Scaled drawings of each distributed control processor (DCP) showing layout of, and indicating the function of each module and accessory.	D				
230923		PD	Bill of Materials	D				
230923		PD	Detailed Description of system operation	D				
230923		PD	Point description, program list, and sequences	D				
230923		PD	Data from the Company producing the system, proving that the system is UL listed	D				
230923		PD	Name, address and telephone number of nearest fully equipped service organization.	D				
230923		PD	Distributed control Processors (DCPs)	D				
230923		PD	Router and Gateways	D				
230923		PD	DCP and TEC Software	D				
230923		PD	Data and Control (D/C) summary	D				
230923		PD	Misc. Electric/Electronic and Mechanical Devices	D				
230923		PD	Markers and Nameplates	D				
230923		PD	Accessories	D				
230923		PD	Wiring	D				
230923		QCS	Installer's Qualifications Data	D				
230923		QCS	Company Field Advisor Data	D				
230923		QCS	Test Reports: Existing sub-system Test Reports	D				
230923		CCS	System Acceptance Test Report	F				

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230923		CCS	Certificate: Affidavit, signed by the Company Field Advisor and notarized certifying the system meets the contract requirements and is operating properly	F				
230923		CCS	Operation and Maintenance Data - 2 copies	F				
230923		CCS	Provide 2 hard copy back-up disks and CD-ROM backup of all software programs and configurations	F				
230923		CCS	Provide all revisions and/or upgrades made to the system software during the one year guarantee warranty period	F				
230923		CCS	Spare Parts: 10 percent spare of each type temperature sensor	F				
230923		CCS	Spare Parts: 10 percent spare of each type relay	F				
230923		CCS	Spare Parts: 10 percent spare of each type I/O board	F				
232000			<b>HVAC PIPING</b>					
232000		PD	Material Schedule	D				
232000		PD	Steel Pipe and Fittings	D				
232000		PD	Copper and Brass Pipe, Tubing and Fittings	D				
232000		PD	PVC Pipe	D				
232000		PD	Cast Iron Pipe	D				
232000		PD	Joining and Sealant Materials	D				
232000		PD	Dielectric Connectors	D				
232000		PD	Pipe Sleeves - Type A	D				
232000		PD	Floor, Wall and Ceiling Plates - Cast Brass	D				
232000		PD	Floor, Wall and Ceiling Plates - Cast Iron	D				
232000		PD	Floor, Wall and Ceiling Plates - Stamped Steel	D				
232000		QCS	Welder Qualification Data	D				
232000		QCS	Welding Procedures	D				
232000		QCS	Welders' Certificates	D				
232000		QCS	Welding Procedure Submittals	D				
232000		QCS	Hydraulic Press Joints (if used)	D				
232000		CCS	Copy of Final Hydrostatic Testing Record Log	F				
232001			<b>STRAINERS</b>					
232001		PD	Strainer - Y	D				
232002			<b>BACKFLOW PREVENTERS</b>					
232002		PD	Backflow Preventer - Type A	D				
232003			<b>THERMOMETERS AND GAUGES</b>					
232003		PD	Thermometers for Measuring Liquid Temperature	D				
232003		PD	Pressure and Compound Gauges	D				
232003		PD	Pressure Snubbers	D				
232003		PD	Impulse Dampers	D				
232004			<b>AIR GAP FITTINGS</b>					
232004		PD	Air Gap Fitting	D				

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<b>232006 HYDRONIC SPECIALTIES</b>								
232006		PD	Expansion Tank	D				
232006		PD	Combination Air Separator and System Strainer	D				
232006		PD	Air Vents	D				
232006		QCS	Seismic Qualifications Certificate	D				
232006		CCS	Operation and Maintenance Data - 2 copies	F				
<b>232113 COMBINATION BALANCING VALVE AND FLOW METERS</b>								
232113		PD	Threaded and Soldered End Ball Style	D				
232113		PD	Flanged and Grooved End Ball Types	D				
232113		PD	Portable meter	D				
232113		CCS	Operation and Maintenance Data: 2 Copies	D				
232113		CCS	Special Tools	D				
<b>232123 PUMPS</b>								
232123		PD	Pump Schedule	D	X			
232123		PD	Circulating Waterpumps - In-Line Pump	D	X			
232123		PD	Circulating Waterpumps - Base Mounted Pump	D	X			
232123		PD	Lubrication Charts	D				
232123		QCS	Performance curves for each pump, showing gpm, brake HP and efficiency from free delivery to shut-off	D	X			
232123		QCS	Certificates: Affidavit required under QUALITY ASSURANCE Article.	D				
232123		QCS	Company Field Advisor Data	D				
232123		CCS	Operation, Maintenance Data, and Parts Lists: 2 copies	F				
232123		CCS	Spare Parts: Deliver one spare set of mechanical seals for each size and type of pump equipped with mechanical seals	F				
<b>232513 WATER TREATMENT, CLOSED HOT WATER HEATING SYSTEM</b>								
232513		PD	Chemical feeders and Accessories	D				
232513		CCS	Operation and Maintenance Data	F				
232513		CCS	Extra Materials: One year supply of water treatment chemicals	F				
<b>233113 METAL DUCTWORK</b>								
233113		SD	Layouts for areas in which it may be necessary to deviate substantially from layout shown on the Drawings	D				
233113		SD	Method of attachment of duct hangers to building construction	D				
233113		SD	Coordinate shop drawings with related contracts prior to submission	D				
233113		PD	Sheet Metal	D				
233113		PD	Duct Hangers	D				
233113		PD	Miscellaneous Fasteners and Upper Hanger Attachments	D				

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<b>233300 DUCTWORK ACCESSORIES</b>								
233300		PD	SMACNA Figure Numbers for each shop fabricated item.	D				
233300		PD	Insulated Ventilation Air Damper	D				
233300		PD	Damper Actuators	D				
233300		PD	Gasket Material	D				
233300		PD	Sealant	D				
<b>235133 PREFABRICATED CHIMNEYS</b>								
235133		PD	Prefabricated Chimney	D				
235133		SD	Shop Drawings	D				
<b>235216 CONDENSING BOILERS</b>								
235216		PACK	Submit Package for Gas Fired Condensing Boiler, Flue Calculation, and drawings.	D	X			
235216		QCS	Certificates and Company Field Advisor Data	D				
235216		CCS	Certifications, Operation and Maintenance Data, and Service Organization Data	D				
<b>238239 UNIT HEATERS</b>								
238239		SD	Detailed dimensional data for outside air intake box assembly.	D				
238239		PD	Schedule	D				
238239		PD	Propeller Type Unit Heater	D				
238239		QCS	Copy of Seismic Qualifications Certificate	D				
<b>260221 MOTORS AND MOTOR CONTROLLERS</b>								
260221		PACK	Submit the product data, and quality control submittals specified below at the same time as a package	D				
260221		PD	Motor Controllers - Identify each controller for use with corresponding motor	D				
260221		PD	Motor Controllers - Describe overload devices	D				
260221		PD	Motor Controllers - Enumerate and describe all accessories	D				
260221		PD	All Motors - Catalog sheets, specifications and installation instructions	D				
260221		PD	All Motors - Data proving that voltage rating of each motor is in accordance with specified NEMA standard motor voltage	D				
260221		PD	All Motors - Data proving that the service factor and temperature rise for the motor's insulation system conforms to NEMA standards for each motor's specific application.	D				
260221		PD	All Motors - Data proving that the motor efficiency rating conforms to NEMA testing and marking standards MG1-12.54 and 12.55.	D				
260221		PD	Additional Data for Motors Controlled by Solid State or Adjustable Speed Motor Controllers - Data proving that the motor has been designed for use with associated controller	D				

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260221		QCS	Harmonic analysis report	D				
260221		QCS	Company Field Advisor Data	D				
260221		CCS	System acceptance test report	F				
260221		CCS	Certificate: Affidavit, signed by the Company Field Advisor and notarized	F				
260221		CCS	Operation and Maintenance Data - 2 copies	F				
260221		CCS	Nameplates	F				
260221		CCS	Service Availability: A fully equipped service organization shall be available to service the completed Work	F				
260502			<b>BASIC ELECTRICAL MATERIALS AND METHODS FOR DIRECT DIGITAL BUILDING CONTROL SYSTEM</b>					
260502		PD	Statement from the Company producing the system, for each size and type of cable proposed for communication bus use, indicating that the electrical characteristics meet the requirements of the Company	D				
260502		PD	For fire rated construction, prove that materials and installation methods proposed for use are in accordance with the listing requirements of the classified construction	D				
260502		PD	Rigid Ferrous Metal Conduit	D				
260502		PD	Intermediate Ferrous Metal Conduit	D				
260502		PD	Flexible Metal Conduit	D				
260502		PD	Liquid-tight Flexible Metal Conduit	D				
260502		PD	Surface Metal Raceway, Fittings and Accessories	D				
260502		PD	Wireways, Fittings and Accessories	D				
260502		PD	Insulated Bushings, Plastic Bushings, Insulated Grounding Bushings	D				
260502		PD	Connectors and Couplings	D				
260502		PD	Conduit Bodies (Threaded)	D				
260502		PD	Expansion Fittings	D				
260502		PD	Deflection Fittings	D				
260502		PD	Sealing Fittings	D				
260502		PD	Sealant for Raceways Exposed to Different Temperatures	D				
260502		PD	Vertical Conductor Supports	D				
260502		PD	Galvanized Steel Boxes For Concealed Work	D				
260502		PD	Galvanized Steel Junction and Pull Boxes For Exposed Work	D				
260502		PD	Threaded Type Boxes For Exposed Work	D				
260502		PD	Specific Purpose Outlet Boxes	D				
260502		PD	Outlet Boxes and Related Products for Fire Rated Construction	D				
260502		PD	Conductors and Accessories	D				
260502		PD	"C" Beam Clamps	D				
260502		PD	Pipe Straps	D				
260502		PD	Pipe Clamps	D				
260502		PD	Supporting Fastener (Metal Sud Construction)	D				

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<b>260523</b>			<b>WIRING FOR MOTORS AND MOTOR CONTROLLERS</b>					
<b>260523</b>		<b>SD</b>	Complete wiring diagrams of all power and control connections (Standard diagrams will not be accepted).	D				