MasterFormat® Numbers & Titles

April 2016

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03 01 30.51  Cleaning of Cast-in-Place Concrete
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06 51 00  Structural Plastic Shapes and Plates
06 51 13  Plastic Lumber
06 52 00  Plastic Structural Assemblies
06 53 00  Plastic Decking
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06 60 00  Plastic Fabrications
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06 61 13  Simulated Stone Fabrications
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06 80 00  Composite Fabrications
06 81 00  Composite Railings
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06 82 00  Composite Trim
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07 01 00  Operation and Maintenance of Thermal and Moisture Protection

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07 01 10.81  Waterproofing Replacement
07 01 20  Maintenance of Thermal Protection
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07 01 40  Maintenance of Roofing and Siding Panels
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07 01 50.13  Roof Moisture Survey
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07 01 70  Operation and Maintenance of Roof Specialties and Accessories
07 01 80  Maintenance of Fire and Smoke Protection
07 01 90  Maintenance of Joint Protection
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07 03 00  Conservation Treatment for Period Roofing

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07 03 30.13  Conservation Treatment for Period Canvas Roofing
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07 03 31.16  Conservation Treatment for Period Metal Shingles
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07 03 61.13  Conservation Treatment for Period Standing Seam Sheet Metal Roofing
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   07 11 16  Cementitious Dampproofing
   07 11 19  Sheet Dampproofing

07 12 00  Built-Up Bituminous Waterproofing
   07 12 13  Built-Up Asphalt Waterproofing
   07 12 16  Built-Up Coal Tar Waterproofing

07 13 00  Sheet Waterproofing
   07 13 13  Bituminous Sheet Waterproofing
   07 13 26  Self-Adhering Sheet Waterproofing
   07 13 52  Modified Bituminous Sheet Waterproofing
   07 13 53  Elastomeric Sheet Waterproofing
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07 14 00  Fluid-Applied Waterproofing
   07 14 13  Hot Fluid-Applied Rubberized Asphalt Waterproofing
   07 14 14  Hot Fluid-Applied Polyurea Waterproofing
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07 15 00  Sheet Metal Waterproofing
   07 15 13  Sheet Lead Waterproofing

07 16 00  Cementitious and Reactive Waterproofing
   07 16 13  Polymer Modified Cement Waterproofing
   07 16 16  Crystalline Waterproofing
   07 16 19  Metal Oxide Waterproofing

07 17 00  Bentonite Waterproofing
   07 17 13  Bentonite Panel Waterproofing
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07 18 00  Traffic Coatings
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07 19 00  Water Repellents
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07 19 16 Silane Water Repellents
07 19 19 Silicone Water Repellents
07 19 23 Siloxane Water Repellents
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07 20 00 Thermal Protection

07 21 00 Thermal Insulation
07 21 13 Board Insulation
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07 21 13.19 Mineral Board Insulation
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07 26 00 Vapor Retarders
07 26 13 Above-Grade Vapor Retarders
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07 27 19 Plastic Sheet Air Barriers
07 27 23 Board Product Air Barriers
07 27 26 Fluid-Applied Membrane Air Barriers
07 27 36 Sprayed Foam Air Barrier

07 30 00 Steep Slope Roofing
07 30 91 Canvas Roofing

07 31 00 Shingles and Shakes
07 31 13 Asphalt Shingles
07 31 13.13 Fiberglass-Reinforced Asphalt Shingles
07 31 16 Metal Shingles
07 31 19 Mineral-Fiber Cement Shingles
07 31 23 Porcelain Enamel Shingles
07 31 26 Slate Shingles
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07 31 29.13 Wood Shingles
07 31 29.16 Wood Shakes
07 31 33 Composite Rubber Shingles
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**07 32 00 Roof Tiles**
07 32 13 Clay Roof Tiles
07 32 14 Ceramic and Porcelain Roof Tiles
07 32 16 Concrete Roof Tiles
07 32 19 Metal Roof Tiles
07 32 23 Mineral-Fiber Cement Roof Tiles
07 32 26 Plastic Roof Tiles
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**07 33 00 Natural Roof Coverings**
07 33 13 Sod Roofing
07 33 16 Thatched Roofing
07 33 63 Vegetated Steep-Slope Roofing

**07 40 00 Roofing and Siding Panels**

**07 41 00 Roof Panels**
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07 41 16 Insulated Metal Roof Panels
07 41 23 Wood Roof Panels
07 41 33 Plastic Roof Panels
07 41 43 Composite Roof Panels
07 41 63 Fabricated Roof Panel Assemblies

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07 42 13 Metal Wall Panels
07 42 13.13 Formed Metal Wall Panels
07 42 13.16 Metal Plate Wall Panels
07 42 13.19 Insulated Metal Wall Panels
07 42 13.23 Metal Composite Material Wall Panels
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07 42 33 Plastic Wall Panels
07 42 43 Composite Wall Panels
07 42 46 Cementitious Wall Panels
07 42 63 Fabricated Wall Panel Assemblies
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**07 44 00 Faced Panels**
07 44 13 Aggregate Coated Panels
07 44 16 Porcelain Enameled Faced Panels
07 44 19 Tile-Faced Panels
07 44 23 Ceramic-Tile-Faced Panels
07 44 33 Metal Faced Panels
07 44 53 Glass-Fiber-Reinforced Cementitious Panels
07 44 56 Mineral-Fiber-Reinforced Cementitious Panels
07 44 63 Fabricated Faced Panel Assemblies

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07 46 19 Steel Siding
07 46 21  Zinc Siding  
07 46 23  Wood Siding  
07 46 24  Wood Shingle and Shake Siding  
07 46 24.13  Wood Shingle Siding  
07 46 24.16  Wood Shake Siding  
07 46 26  Hardboard Siding  
07 46 29  Plywood Siding  
07 46 33  Plastic Siding  
07 46 43  Composition Siding  
07 46 46  Fiber-Cement Siding  
07 46 63  Fabricated Panel Assemblies with Siding  

07 50 00  Membrane Roofing  
07 51 00  Built-Up Bituminous Roofing  
07 51 13  Built-Up Asphalt Roofing  
07 51 13.13  Cold-Applied Built-Up Asphalt Roofing  
07 51 16  Built-Up Coal Tar Roofing  
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07 52 00  Modified Bituminous Membrane Roofing  
07 52 13  Atactic-Polypropylene-Modified Bituminous Membrane Roofing  
07 52 13.11  Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing  
07 52 13.13  Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing  
07 52 13.14  Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing  
07 52 16  Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing  
07 52 16.11  Cold Adhesive Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing  
07 52 16.12  Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing  
07 52 16.13  Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing  
07 52 16.14  Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing  

07 53 00  Elastomeric Membrane Roofing  
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07 53 16  Chlorosulfonate-Polyethylene Roofing  
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07 53 29  Polyisobutylene Roofing  

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07 55 51  Built-Up Bituminous Protected Membrane Roofing  
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07 55 54  Thermoplastic Protected Membrane Roofing  
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07 55 56.13  Hot-Applied Rubberized Asphalt Protected Membrane Roofing
07 55 63 Vegetated Protected Membrane Roofing
07 56 00 Fluid-Applied Roofing
07 57 00 Coated Foamed Roofing
07 57 13 Sprayed Polyurethane Foam Roofing
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07 60 00 Flashing and Sheet Metal
07 61 00 Sheet Metal Roofing
07 61 13 Standing Seam Sheet Metal Roofing
07 61 16 Batten Seam Sheet Metal Roofing
07 61 19 Flat Seam Sheet Metal Roofing
07 62 00 Sheet Metal Flashing and Trim
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07 71 00 Roof Specialties
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07 76 13  Roof Ballast Pavers
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08 01 00  Operation and Maintenance of Openings
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  08 01 11  Operation and Maintenance of Metal Doors and Frames
  08 01 14  Operation and Maintenance of Wood Doors
  08 01 15  Operation and Maintenance of Plastic Doors
08 01 16  Operation and Maintenance of Composite Doors
08 01 17  Operation and Maintenance of Integrated Door Opening Assemblies
08 01 30  Operation and Maintenance of Specialty Doors and Frames
08 01 32  Operation and Maintenance of Sliding Glass Doors
08 01 33  Operation and Maintenance of Coiling Doors and Grilles
08 01 34  Operation and Maintenance of Special Function Doors
08 01 35  Operation and Maintenance of Folding Doors and Grilles
08 01 36  Operation and Maintenance of Panel Doors
08 01 39  Operation and Maintenance of Traffic Doors
08 01 40  Operation and Maintenance of Entrances, Storefronts, and Curtain Walls
08 01 41  Operation and Maintenance of Entrances
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08 01 51  Operation and Maintenance of Metal Windows
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08 01 61  Operation and Maintenance of Roof Windows
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08 01 84  Maintenance of Plastic Glazing
08 01 88  Maintenance of Special Function Glazing
08 01 90  Operation and Maintenance of Louvers and Vents
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08 03 14.23  Conservation Treatment for Period Metal-Faced Wood Doors
08 03 14.33  Conservation Treatment for Period Stile and Rail Wood Doors
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08 03 34  Conservation Treatment for Period Special Function Doors
08 03 34.59  Conservation Treatment for Period Vault Doors
08 03 50  Conservation Treatment for Period Windows
08 03 51 Conservation Treatment for Period Metal Windows
08 03 51.16 Conservation Treatment for Period Bronze Windows
08 03 51.23 Conservation Treatment for Period Steel Windows
08 03 52 Conservation Treatment for Period Wood Windows
08 03 70 Conservation Treatment for Period Hardware
08 03 71 Conservation Treatment for Period Door Hardware
08 03 75 Conservation Treatment for Period Window Hardware
08 03 90 Conservation Treatment for Period Louvers and Vents
08 03 91 Conservation Treatment for Period Louvers
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08 08 00 Commissioning of Openings

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08 11 00 Metal Doors and Frames
08 11 13 Hollow Metal Doors and Frames
08 11 13.13 Standard Hollow Metal Doors and Frames
08 11 13.16 Custom Hollow Metal Doors and Frames
08 11 16 Aluminum Doors and Frames
08 11 19 Stainless-Steel Doors and Frames
08 11 23 Bronze Doors and Frames
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08 11 63.13 Steel Screen and Storm Doors and Frames
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08 11 66 Metal Screen Doors and Frames
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08 11 66.23 Aluminum Screen Doors and Frames
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08 11 69.13 Steel Storm Doors and Frames
08 11 69.23 Aluminum Storm Doors and Frames
08 11 73 Sliding Metal Fire Doors
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08 12 00 Metal Frames
08 12 13 Hollow Metal Frames
08 12 13.13 Standard Hollow Metal Frames
08 12 13.53 Custom Hollow Metal Frames
08 12 16 Aluminum Frames
08 12 19 Stainless-Steel Frames
08 12 23 Bronze Frames

08 13 00 **Metal Doors**
08 13 13 Hollow Metal Doors
08 13 13.13 Standard Hollow Metal Doors
08 13 13.53 Custom Hollow Metal Doors
08 13 16 Aluminum Doors
08 13 16.13 Aluminum Terrace Doors
08 13 19 Stainless-Steel Doors
08 13 23 Bronze Doors
08 13 73 Sliding Metal Doors
08 13 76 Bifolding Metal Doors

08 14 00 **Wood Doors**
08 14 13 Carved Wood Doors
08 14 16 Flush Wood Doors
08 14 23 Clad Wood Doors
08 14 23.13 Metal-Faced Wood Doors
08 14 23.16 Plastic-Laminate-Faced Wood Doors
08 14 23.17 Plastic-Faced Wood Doors
08 14 23.19 Molded-Hardboard-Faced Wood Doors
08 14 29 Prefinished Wood Doors
08 14 33 Stile and Rail Wood Doors
08 14 33.13 Wood Terrace Doors
08 14 66 Wood Screen Doors
08 14 69 Wood Storm Doors
08 14 73 Sliding Wood Doors
08 14 76 Bifolding Wood Doors

08 15 00 **Plastic Doors**
08 15 13 Laminated Plastic Doors
08 15 16 Solid Plastic Doors
08 15 66 Plastic Screen Doors
08 15 69 Plastic Storm Doors
08 15 73 Sliding Plastic Doors
08 15 76 Bifolding Plastic Doors

08 16 00 **Composite Doors**
08 16 13 Fiberglass Doors
08 16 73 Sliding Composite Doors
08 16 76 Bifolding Composite Doors

08 17 00 **Integrated Door Opening Assemblies**
08 17 13 Integrated Metal Door Opening Assemblies
08 17 23 Integrated Wood Door Opening Assemblies
08 17 33 Integrated Plastic Door Opening Assemblies
08 17 43 Integrated Composite Door Opening Assemblies

08 30 00 **Specialty Doors and Frames**

08 31 00 **Access Doors and Panels**
08 31 13 Access Doors and Frames
08 31 13.53 Security Access Doors and Frames
08 31 16 Access Panels and Frames

08 32 00 **Sliding Glass Doors**
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<td>08 32 13</td>
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<td>08 32 16</td>
<td>Sliding Plastic-Framed Glass Doors</td>
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<tr>
<td>08 32 19</td>
<td>Sliding Wood-Framed Glass Doors</td>
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<tr>
<td>08 33 00</td>
<td><strong>Coiling Doors and Grilles</strong></td>
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  09 97 13.23  Exterior Steel Coatings
  09 97 13.24  Steel Water Storage Tank Painting
  09 97 23  Concrete and Masonry Coatings
  09 97 23.24  Concrete Water Storage Tank Painting
  09 97 26  Cementitious Coatings
  09 97 26.13  Interior Cementitious Coatings
  09 97 26.23  Exterior Cementitious Coatings
  09 97 35  Dry Erase Coatings

10 00 00  Specialties

10 01 00  Operation and Maintenance of Specialties
  10 01 10  Operation and Maintenance of Information Specialties
  10 01 20  Operation and Maintenance of Interior Specialties
  10 01 30  Operation and Maintenance of Fireplaces and Stoves
  10 01 40  Operation and Maintenance of Safety Specialties
  10 01 50  Operation and Maintenance of Storage Specialties
  10 01 70  Operation and Maintenance of Exterior Specialties
  10 01 80  Operation and Maintenance of Other Specialties

10 05 00  Common Work Results for Specialties
  10 05 05  Selective Demolition for Specialties

10 06 00  Schedules for Specialties
  10 06 10  Schedules for Information Specialties
10 06 10.13  Exterior Signage Schedule
10 06 10.16  Interior Signage Schedule
10 06 20  Schedules for Interior Specialties
10 06 20.13  Toilet, Bath, and Laundry Accessory Schedule
10 06 30  Schedules for Fireplaces and Stoves
10 06 40  Schedules for Safety Specialties
10 06 50  Schedules for Storage Specialties
10 06 70  Schedules for Exterior Specialties
10 06 80  Schedules for Other Specialties

10 10 00  Commissioning of Specialties

10 11 00  Information Specialties

10 11 13  Chalkboards
10 11 13.13  Fixed Chalkboards
10 11 13.23  Modular-Support-Mounted Chalkboards
10 11 13.33  Rail-Mounted Chalkboards
10 11 13.43  Portable Chalkboards
10 11 16  Markerboards
10 11 16.13  Fixed Markerboards
10 11 16.23  Modular-Support-Mounted Markerboards
10 11 16.33  Rail-Mounted Markerboards
10 11 16.43  Portable Markerboards
10 11 16.53  Electronic Markerboards
10 11 23  Tackboards
10 11 23.13  Fixed Tackboards
10 11 23.23  Modular-Support-Mounted Tackboards
10 11 23.33  Rail-Mounted Tackboards
10 11 23.43  Portable Tackboards
10 11 33  Sliding Visual Display Units
10 11 33.13  Horizontal-Sliding Visual Display Units
10 11 33.23  Vertical-Sliding Visual Display Units
10 11 36  Visual Display Conference Units
10 11 39  Visual Display Rails
10 11 43  Visual Display Wall Panels
10 11 46  Visual Display Fabrics

10 12 00  Display Cases

10 13 00  Directories
10 13 13  Electronic Directories
10 13 23  Illuminated Directories

10 14 00  Signage
10 14 16  Plaques
10 14 19  Dimensional Letter Signage
10 14 23  Panel Signage
10 14 23.13  Engraved Panel Signage
10 14 26  Post and Panel/Pylon Signage
10 14 33  Illuminated Panel Signage
10 14 43  Photoluminescent Signage
10 14 53  Traffic Signage
10 14 53.13  Transportation Reference Markers
10 14 63  Electronic Message Signage
10 14 64  Audible Signage
10 14 66  Floating Signage
10 14 67  Tactile Signage
10 17 00  **Telephone Specialties**
10 17 13  Telephone Directory Units
10 17 16  Telephone Enclosures
10 17 16.13 Telephone Stalls
10 17 16.16 Telephone Alcoves
10 17 19  Telephone Shelving
10 18 00  **Informational Kiosks**
10 20 00  **Interior Specialties**
10 21 00  **Compartments and Cubicles**
10 21 13  Toilet Compartments
10 21 13.13 Metal Toilet Compartments
10 21 13.14 Stainless-Steel Toilet Compartments
10 21 13.16 Plastic-Laminate-Clad Toilet Compartments
10 21 13.17 Phenolic-Core Toilet Compartments
10 21 13.19 Plastic Toilet Compartments
10 21 13.23 Particleboard Toilet Compartments
10 21 13.40 Stone Toilet Compartments
10 21 16  Shower and Dressing Compartments
10 21 16.13 Metal Shower and Dressing Compartments
10 21 16.14 Stainless-Steel Shower and Dressing Compartments
10 21 16.16 Plastic-Laminate-Clad Shower and Dressing Compartments
10 21 16.17 Phenolic-Core Shower and Dressing Compartments
10 21 16.19 Plastic Shower and Dressing Compartments
10 21 16.23 Particleboard Shower and Dressing Compartments
10 21 16.40 Stone Shower and Dressing Compartments
10 21 23  Cubicle Curtains and Track
10 21 23.13 Cubicle Curtains
10 21 23.16 Cubicle Track and Hardware
10 21 26  Room Darkening Curtains and Tracks
10 22 00  **Partitions**
10 22 13  Wire Mesh Partitions
10 22 14  Expanded Metal Partitions
10 22 16  Folding Gates
10 22 19  Demountable Partitions
10 22 19.13 Demountable Metal Partitions
10 22 19.23 Demountable Wood Partitions
10 22 19.33 Demountable Plastic Partitions
10 22 19.43 Demountable Composite Partitions
10 22 19.53 Demountable Gypsum Partitions
10 22 23  Portable Partitions, Screens, and Panels
10 22 23.13 Wall Screens
10 22 23.23 Movable Panel Systems
10 22 33  Accordion Folding Partitions
10 22 36  Coiling Partitions
10 22 39  Folding Panel Partitions
10 22 39.13 Folding Glass-Panel Partitions
10 22 43  Sliding Partitions
10 25 00  **Service Walls**
10 25 13  Patient Bed Service Walls
10 25 16 Modular Service Walls

10 26 00 Wall and Door Protection
  10 26 13 Corner Guards
  10 26 16 Bumper Guards
  10 26 16.13 Bumper Rails
  10 26 16.16 Protective Corridor Handrails
  10 26 23 Protective Wall Covering
  10 26 23.13 Impact Resistant Wall Protection
  10 26 23.16 Fiberglass Reinforced Protective Wall Covering
  10 26 33 Door and Frame Protection
  10 26 41 Bullet Resistant Panels

10 28 00 Toilet, Bath, and Laundry Accessories
  10 28 13 Toilet Accessories
  10 28 13.13 Commercial Toilet Accessories
  10 28 13.19 Healthcare Toilet Accessories
  10 28 13.53 Security Toilet Accessories
  10 28 13.63 Detention Toilet Accessories
  10 28 16 Bath Accessories
  10 28 16.13 Residential Bath Accessories
  10 28 19 Tub and Shower Enclosures
  10 28 19.16 Shower Doors
  10 28 19.19 Tub Doors
  10 28 23 Laundry Accessories
  10 28 23.13 Built-In Ironing Boards
  10 28 23.16 Clothes Drying Racks
  10 28 26 Hygiene and Custodial Accessories

10 30 00 Fireplaces and Stoves

10 31 00 Manufactured Fireplaces
  10 31 13 Manufactured Fireplace Chimneys
  10 31 16 Manufactured Fireplace Forms

10 32 00 Fireplace Specialties
  10 32 13 Fireplace Dampers
  10 32 16 Fireplace Inserts
  10 32 19 Fireplace Screens
  10 32 23 Fireplace Doors
  10 32 26 Fireplace Water Heaters

10 35 00 Stoves
  10 35 13 Heating Stoves
  10 35 23 Cooking Stoves

10 40 00 Safety Specialties

10 41 00 Emergency Access and Information Cabinets
  10 41 13 Fire Department Plan Cabinets
  10 41 16 Emergency Key Cabinets

10 43 00 Emergency Aid Specialties
  10 43 13 Defibrillator Cabinets
  10 43 16 First Aid Cabinets
  10 43 21 Accessibility Evacuation Chairs
  10 43 31 Respiration Equipment
  10 43 33 Breathing Air Replenishment Systems
10 44 00  Fire Protection Specialties
  10 44 13  Fire Protection Cabinets
  10 44 13.53 Security Fire Extinguisher Cabinets
  10 44 16  Fire Extinguishers
  10 44 16.13 Portable Fire Extinguishers
  10 44 16.16 Wheeled Fire Extinguisher Units
  10 44 19  Fire Blankets
  10 44 43  Fire Extinguisher Accessories

10 45 00  Photoluminescent Exit Specialties

10 50 00  Storage Specialties
10 51 00  Lockers
  10 51 13  Metal Lockers
  10 51 13.13 Coin-Operated Metal Lockers
  10 51 16  Wood Lockers
  10 51 23  Plastic-Laminate-Clad Lockers
  10 51 26  Plastic Lockers
  10 51 26.13 Recycled Plastic Lockers
  10 51 29  Phenolic Lockers
  10 51 33  Glass Lockers
  10 51 43  Wire Mesh Storage Lockers
  10 51 53  Locker Room Benches

10 55 00  Postal Specialties
  10 55 13  Central Mail Delivery Boxes
  10 55 13.13 Cluster Box Units
  10 55 16  Mail Collection Boxes
  10 55 19  Receiving Boxes
  10 55 23  Mail Boxes
  10 55 23.13 Apartment Mail Boxes
  10 55 23.16 Mail Box Directories
  10 55 23.19 Mail Box Key Keepers
  10 55 26  Parcel Lockers
  10 55 33  Data Distribution Boxes
  10 55 36  Package Depositories
  10 55 91  Mail Chutes

10 56 00  Storage Assemblies
  10 56 13  Metal Storage Shelving
  10 56 13.13 End-Panel-Support Metal Storage Shelving
  10 56 13.16 Post-and-Shelf Metal Storage Shelving
  10 56 13.19 Post-and-Beam Metal Storage Shelving
  10 56 13.23 Cantilever Metal Storage Shelving
  10 56 16  Fabricated Wood Storage Shelving
  10 56 17  Wall-Mounted Standards and Shelving
  10 56 19  Plastic Storage Shelving
  10 56 19.13 Recycled Plastic Storage Shelving
  10 56 23  Wire Storage Shelving
  10 56 26  Mobile Storage Shelving
  10 56 26.13 Manual Mobile Storage Shelving
  10 56 26.23 Motorized Mobile Storage Shelving
  10 56 29  Storage Racks
  10 56 29.13 Flow Storage Racks
10 56 29.16  Pallet Storage Racks
10 56 29.19  Movable-Shelf Storage Racks
10 56 29.23  Stacker Storage Racks
10 56 29.26  Cantilever Storage Racks
10 56 29.29  Drive-In Storage Racks
10 56 29.33  Drive-Through Storage Racks
10 56 29.43  Wine Storage Racks
10 56 33  Mercantile Storage Assemblies
10 57 00  Wardrobe and Closet Specialties
  10 57 13  Hat and Coat Racks
  10 57 16  Boot Racks
  10 57 23  Closet and Utility Shelving
  10 57 23.13  Wire Closet and Utility Shelving
  10 57 23.16  Plastic-Laminate-Clad Closet and Utility Shelving
  10 57 23.19  Wood Closet and Utility Shelving
  10 57 33  Closet and Utility Shelving Hardware
  10 57 36  Closet Doors
  10 57 36.13  Sliding Closet Doors
  10 57 36.16  Bifold Closet Doors
10 70 00  Exterior Specialties
10 71 00  Exterior Protection
  10 71 13  Exterior Sun Control Devices
  10 71 13.13  Exterior Shutters
  10 71 13.19  Rolling Exterior Shutters
  10 71 13.23  Coiling Exterior Shutters
  10 71 13.26  Decorative Exterior Shutters
  10 71 13.29  Side-Hinged Exterior Shutters
  10 71 13.43  Fixed Sun Screens
  10 71 13.53  Exterior Daylighting Devices
  10 71 16  Storm Panels
  10 71 16.13  Demountable Storm Panels
  10 71 16.16  Movable Storm Panels
  10 71 19  Flood Barriers
  10 71 19.16  Removable Flood Barriers
10 73 00  Protective Covers
  10 73 13  Awnings
  10 73 13.13  Metal Awnings
  10 73 13.23  Fabric Awnings
  10 73 13.36  Point Supported Glass Awnings
  10 73 16  Canopies
  10 73 16.13  Metal Canopies
  10 73 16.23  Fabric Canopies
  10 73 16.33  Glazed Canopies
  10 73 16.36  Point Supported Glass Canopies
  10 73 23  Car Shelters
  10 73 26  Walkway Coverings
  10 73 26.13  Metal Walkway Coverings
  10 73 26.23  Fabric Walkway Coverings
  10 73 26.33  Glazed Walkway Coverings
  10 73 26.36  Point Supported Glass Walkway Coverings
  10 73 33  Marquees
  10 73 43  Transportation Stop Shelters
10 74 00 Manufactured Exterior Specialties
  10 74 10 Exterior Clocks
  10 74 20 Cupolas
  10 74 20 Spires
  10 74 20 Steeples
  10 74 20 Weathervanes
  10 74 20 Below-Grade Egress Assemblies
  10 74 20 Window Wells
10 75 00 Flagpoles
  10 75 10 Automatic Flagpoles
  10 75 10 Ground-Set Flagpoles
  10 75 10 Nautical Flagpoles
  10 75 20 Wall-Mounted Flagpoles
  10 75 20 Roof-Mounted Flagpoles
  10 75 20 Plaza-Mounted Flagpoles
10 80 00 Other Specialties
10 81 00 Pest Control Devices
  10 81 10 Bird Control Devices
  10 81 10 Insect Control Devices
  10 81 10 Rodent Control Devices
10 82 00 Grilles and Screens
  10 82 10 Exterior Grilles and Screens
  10 82 10 Exterior Sound Screens
  10 82 20 Interior Grilles and Screens
10 83 00 Flags and Banners
  10 83 10 Flags
  10 83 10 Banners
10 84 00 Gas Lighting
  10 84 10 Exterior Gas Lighting
  10 84 10 Interior Gas Lighting
10 86 00 Security Mirrors and Domes
10 88 00 Scales
11 00 00 Equipment
11 01 00 Operation and Maintenance of Equipment
  11 01 10 Operation and Maintenance of Vehicle and Pedestrian Equipment
  11 01 20 Operation and Maintenance of Commercial Equipment
  11 01 30 Operation and Maintenance of Residential Equipment
  11 01 40 Operation and Maintenance of Foodservice Equipment
  11 01 50 Operation and Maintenance of Educational and Scientific Equipment
  11 01 56 Operation and Maintenance of Observatory Equipment
  11 01 60 Operation and Maintenance of Entertainment and Recreation Equipment
  11 01 70 Operation and Maintenance of Healthcare Equipment
  11 01 80 Operation and Maintenance of Facility Maintenance and Operation Equipment
  11 01 90 Operation and Maintenance of Other Equipment
11 05 00 Common Work Results for Equipment
  11 05 00 Selective Demolition for Equipment
11 05 13  Common Motor Requirements for Equipment

11 06 00  **Schedules for Equipment**

11 06 10  Schedules for Vehicle and Pedestrian Equipment
11 06 20  Schedules for Commercial Equipment
11 06 30  Schedules for Residential Equipment
11 06 40  Schedules for Foodservice Equipment
11 06 40.13  Foodservice Equipment Schedule
11 06 50  Schedules for Educational and Scientific Equipment
11 06 60  Schedules for Entertainment and Recreation Equipment
11 06 70  Schedules for Healthcare Equipment
11 06 70.13  Healthcare Equipment Schedule
11 06 80  Schedules for Facility Maintenance and Operation Equipment
11 06 90  Schedules for Other Equipment
11 06 90.11  Schedules for Detention Equipment

11 08 00  **Commissioning of Equipment**

11 10 00  **Vehicle and Pedestrian Equipment**

11 11 00  **Vehicle Service Equipment**

11 11 13  Compressed-Air Vehicle Service Equipment
11 11 19  Vehicle Lubrication Equipment
11 11 23  Tire-Changing Equipment
11 11 26  Vehicle-Washing Equipment
11 11 36  Vehicle Charging Equipment
11 11 36.13  Commercial Electric Vehicle Charging Unit
11 11 36.16  Residential Electric Vehicle Charging Unit

11 12 00  **Parking Control Equipment**

11 12 13  Parking Key and Card Control Units
11 12 16  Parking Ticket Dispensers
11 12 23  Parking Meters
11 12 26  Parking Fee Collection Equipment
11 12 26.13  Parking Fee Coin Collection Equipment
11 12 33  Parking Gates
11 12 33.13  Lift Arm Parking Gates
11 12 33.16  Sliding Parking Gates
11 12 33.19  Swinging Parking Gates

11 13 00  **Loading Dock Equipment**

11 13 13  Loading Dock Bumpers
11 13 16  Loading Dock Seals and Shelters
11 13 16.13  Loading Dock Seals
11 13 16.23  Loading Dock Shelters
11 13 16.33  Loading Dock Rail Shelters
11 13 19  Stationary Loading Dock Equipment
11 13 19.13  Loading Dock Levelers
11 13 19.23  Stationary Loading Dock Lifts
11 13 19.26  Loading Dock Truck Lifts
11 13 19.33  Loading Dock Truck Restraints
11 13 23  Portable Dock Equipment
11 13 23.13  Portable Dock Lifts
11 13 23.16  Portable Dock Ramps
11 13 23.19  Portable Dock Bridges
11 13 23.23  Portable Dock Platforms
11 13 26  Loading Dock Lights
11 14 00  Pedestrian Control Equipment
  11 14 13  Pedestrian Gates
  11 14 13.16  Rotary Gates
  11 14 13.19  Turnstiles
  11 14 16  Pedestrian Control Devices
  11 14 19  Portable Posts and Railings
  11 14 26  Pedestrian Fare Collection Equipment
  11 14 26.13  Pedestrian Coin Fare Collection Equipment
  11 14 43  Pedestrian Detection Equipment
  11 14 43.13  Electronic Detection and Counting Systems
  11 14 53  Pedestrian Security Equipment
11 15 00  Security Control Equipment
11 20 00  Commercial Equipment
11 21 00  Retail and Service Equipment
  11 21 13  Cash Registers and Checking Equipment
  11 21 23  Vending Equipment
  11 21 23.13  Merchandise Vending Machines
  11 21 23.16  Reverse Vending Machines
  11 21 23.19  Video Rental Vending Machines
  11 21 23.36  Token Vending Machines
  11 21 24  Money Changing Machines
  11 21 33  Checkroom Equipment
  11 21 43  Weighing and Wrapping Equipment
  11 21 53  Barber and Beauty Shop Equipment
  11 21 63  Refrigerated Display Equipment
  11 21 73  Commercial Laundry and Dry Cleaning Equipment
  11 21 73.13  Dry Cleaning Equipment
  11 21 73.16  Drying and Conditioning Equipment
  11 21 73.19  Finishing Equipment
  11 21 73.23  Commercial Ironing Equipment
  11 21 73.26  Commercial Washers and Extractors
  11 21 73.33  Coin-Operated Laundry Equipment
  11 21 73.43  Hanging Garment Conveyors
  11 21 83  Photo Processing Equipment
11 22 00  Banking Equipment
  11 22 13  Vault Equipment
  11 22 13.13  Safe Deposit Boxes
  11 22 13.16  Safes
  11 22 13.23  Vault Ventilators
  11 22 13.26  Time Capsules
  11 22 16  Teller and Service Equipment
  11 22 16.13  Teller Equipment Systems
  11 22 16.16  Automatic Banking Systems
  11 22 16.19  Money Handling Equipment
  11 22 16.23  Money Depositories
  11 22 16.26  Money Cart Pass-Through
  11 22 16.29  Package Transfer Units
  11 22 16.33  Deal Trays
11 25 00  Hospitality Equipment
  11 25 13  Registration Equipment
11 28 00  Office Equipment
11 28 13 Computers
11 28 16 Printers
11 28 23 Copiers
11 29 00 Postal, Packaging, and Shipping Equipment
  11 29 23 Packaging Equipment
  11 29 33 Shipping Equipment
  11 29 55 Postal Equipment
11 30 00 Residential Equipment
  11 30 13 Residential Appliances
  11 30 13.13 Residential Kitchen Appliances
  11 30 13.23 Residential Laundry Appliances
  11 30 33 Retractable Stairs
  11 30 34 Residential Ceiling Fans
11 32 00 Unit Kitchens
  11 32 13 Metal Unit Kitchens
  11 32 16 Wood Unit Kitchens
  11 32 19 Plastic-Laminate-Clad Unit Kitchens
11 40 00 Foodservice Equipment
11 41 00 Foodservice Storage Equipment
  11 41 13 Refrigerated Food Storage Cases
  11 41 23 Walk-In Coolers
  11 41 26 Walk-In Freezers
  11 41 33 Foodservice Shelving
11 42 00 Food Preparation Equipment
  11 42 13 Food Preparation Appliances
  11 42 16 Food Preparation Surfaces
11 43 00 Food Delivery Carts and Conveyors
  11 43 13 Food Delivery Carts
  11 43 16 Food Delivery Conveyors
11 44 00 Food Cooking Equipment
  11 44 13 Commercial Ranges
  11 44 16 Commercial Ovens
11 46 00 Food Dispensing Equipment
  11 46 13 Bar Equipment
  11 46 16 Service Line Equipment
  11 46 19 Soda Fountain Equipment
  11 46 23 Coffee and Espresso Equipment
  11 46 83 Ice Machines
11 48 00 Foodservice Cleaning and Disposal Equipment
  11 48 13 Commercial Dishwashers
11 50 00 Educational and Scientific Equipment
11 51 00 Library Equipment
  11 51 13 Automated Book Storage and Retrieval Systems
  11 51 16 Book Depositories
  11 51 19 Book Theft Protection Equipment
  11 51 23 Library Stack Systems
  11 51 23.13 Metal Library Shelving
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<th>Code</th>
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<td><strong>Audio-Visual Equipment</strong></td>
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<td>11 52 13</td>
<td>Projection Screens</td>
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11 66 13  Exercise Equipment
11 66 23  Gymnasium Equipment
11 66 23.13  Basketball Equipment
11 66 23.23  Volleyball Equipment
11 66 23.33  Interior Tennis Equipment
11 66 23.43  Interior Track and Field Equipment
11 66 23.53  Wall Padding
11 66 23.56  Mat Storage
11 66 43  Interior Scoreboards
11 66 53  Gymnasium Dividers
11 66 53.13  Batting/Golf Cages

11 67 00  Recreational Equipment
11 67 13  Bowling Alley Equipment
11 67 23  Shooting Range Equipment
11 67 33  Climbing Walls
11 67 43  Table Games Equipment
11 67 43.13  Pool Tables
11 67 43.23  Ping-Pong Tables
11 67 53  Game Room Equipment
11 67 53.13  Video Games
11 67 53.23  Pinball Machines

11 68 00  Play Field Equipment and Structures
11 68 13  Playground Equipment
11 68 16  Play Structures
11 68 23  Exterior Court Athletic Equipment
11 68 23.13  Exterior Basketball Equipment
11 68 23.23  Exterior Volleyball Equipment
11 68 23.33  Tennis Equipment
11 68 33  Athletic Field Equipment
11 68 33.13  Football Field Equipment
11 68 33.23  Soccer and Field Hockey Equipment
11 68 33.33  Baseball Field Equipment
11 68 33.43  Track and Field Equipment
11 68 43  Exterior Scoreboards

11 70 00  Healthcare Equipment
11 71 00  Medical Sterilizing Equipment
11 72 00  Examination and Treatment Equipment
11 72 13  Examination Equipment
11 72 53  Treatment Equipment
11 73 00  Patient Care Equipment
11 73 13  Psychiatric Seclusion Room Padding

11 74 00  Dental Equipment
11 75 00  Optical Equipment
11 76 00  Operating Room Equipment
11 77 00  Radiology Equipment
11 78 00  Mortuary Equipment
11 78 13  Mortuary Refrigerators
11 78 16  Crematorium Equipment
11 78 19  Mortuary Lifts
11 79 00  Therapy Equipment
11 80 00  Facility Maintenance and Operation Equipment
11 81 00  Facility Maintenance Equipment
  11 81 13  Floor and Wall Cleaning Equipment
  11 81 16  Housekeeping Carts
  11 81 19  Vacuum Cleaning Systems
  11 81 23  Façade Access Equipment
  11 81 23.13 Window Washing Systems
  11 81 29  Facility Fall Protection
11 82 00  Facility Solid Waste Handling Equipment
  11 82 13  Solid Waste Bins
  11 82 19  Packaged Incinerators
  11 82 23  Recycling Equipment
  11 82 26  Facility Waste Compactors
  11 82 29  Composting Equipment
  11 82 33  Facility Waste Shredders
  11 82 36  Facility Waste Balers
11 90 00  Other Equipment
11 91 00  Religious Equipment
  11 91 13  Baptisteries
11 92 00  Agricultural Equipment
  11 92 13  Milkers
  11 92 16  Stock Feeders
  11 92 19  Stock Waterers
  11 92 23  Agricultural Waste Clean-Up Equipment
11 93 00  Horticultural Equipment
  11 93 13  Hydroponic Growing Systems
  11 93 16  Seeders
  11 93 19  Transplanters
  11 93 23  Potting Machines
  11 93 26  Flat Fillers
  11 93 29  Baggers
  11 93 33  Soil Mixers
11 94 00  Veterinary Equipment
11 95 00  Arts and Crafts Equipment
  11 95 13  Kilns
11 97 00  Security Equipment
  11 97 13  Deal Drawers
  11 97 16  Gun Ports
  11 97 23  Valuable Material Storage
11 98 00  Detention Equipment
  11 98 11  Detention Equipment General Requirements
  11 98 12  Detention Doors and Frames
  11 98 13  Detention Pass-Through Doors
  11 98 14  Detention Door Hardware
11 98 16 Detention Equipment Fasteners
11 98 19 Detention Room Padding
11 98 21 Detention Windows
11 98 23 Detention Window Screens

12 00 00 Furnishings

12 01 00 Operation and Maintenance of Furnishings
  12 01 10 Operation and Maintenance of Art
  12 01 20 Operation and Maintenance of Window Treatments
  12 01 30 Operation and Maintenance of Casework
  12 01 40 Operation and Maintenance of Furnishings and Accessories
  12 01 50 Operation and Maintenance of Furniture
  12 01 60 Operation and Maintenance of Multiple Seating
  12 01 90 Operation and Maintenance of Other Furnishings

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12 08 00 Commissioning of Furnishings

12 10 00 Art

12 11 00 Murals
  12 11 13 Photo Murals
  12 11 16 Sculptured Brick Panels
  12 11 23 Brick Murals
  12 11 26 Ceramic Tile Murals
  12 11 33 Trompe l'oeil

12 12 00 Wall Decorations
  12 12 13 Commissioned Paintings
  12 12 16 Framed Paintings
  12 12 19 Framed Prints
  12 12 23 Tapestries
  12 12 26 Wall Hangings

12 14 00 Sculptures
  12 14 13 Carved Sculpture
  12 14 16 Cast Sculpture
  12 14 19 Constructed Sculpture
  12 14 23 Relief Art

12 17 00 Art Glass
12 17 13  Etched Glass
12 17 16  Stained Glass
12 19 00  Religious Art
12 20 00  Window Treatments
12 21 00  Window Blinds
  12 21 13  Wood Blinds
  12 21 13.13  Metal Horizontal Louver Blinds
  12 21 13.23  Wood Horizontal Louver Blinds
  12 21 13.33  Plastic Horizontal Louver Blinds
  12 21 16  Vertical Louver Blinds
  12 21 16.13  Metal Vertical Louver Blinds
  12 21 16.23  Wood Vertical Louver Blinds
  12 21 16.33  Plastic Vertical Louver Blinds
  12 21 23  Roll-Down Blinds
  12 21 26  Black-Out Blinds
12 22 00  Curtains and Drapes
  12 22 13  Draperies
  12 22 16  Drapery Track and Accessories
12 23 00  Interior Shutters
  12 23 13  Wood Interior Shutters
12 24 00  Window Shades
  12 24 13  Roller Window Shades
  12 24 16  Pleated Window Shades
  12 24 16.13  Z-Pleated Window Shades
  12 24 16.16  Cellular Shades
  12 24 16.19  Roman Shades
12 25 00  Window Treatment Operating Hardware
  12 25 09  Window Treatment Control System
  12 25 13  Motorized Drapery Rods
12 26 00  Interior Daylighting Devices
12 30 00  Casework
12 31 00  Manufactured Metal Casework
  12 31 16  Manufactured Metal Sandwich Panel Casework
12 32 00  Manufactured Wood Casework
  12 32 13  Manufactured Wood-Veneer-Faced Casework
  12 32 16  Manufactured Plastic-Laminate-Clad Casework
12 34 00  Manufactured Plastic Casework
  12 34 16  Manufactured Solid-Plastic Casework
  12 34 19  Manufactured Solid Surface Casework
12 35 00  Specialty Casework
  12 35 17  Bank Casework
  12 35 25  Hospitality Casework
  12 35 30  Residential Casework
  12 35 30.13  Kitchen Casework
  12 35 30.23  Bathroom Casework
  12 35 30.43  Dormitory Casework
  12 35 33  Utility Room Casework
  12 35 36  Mailroom Casework
12 35 39  Commercial Kitchen Casework
12 35 50  Educational/Library Casework
12 35 50.13  Educational Casework
12 35 50.53  Library Casework
12 35 50.56  Built-In Study Carrels
12 35 53  Laboratory Casework
12 35 53.13  Metal Laboratory Casework
12 35 53.16  Plastic-Laminate-Clad Laboratory Casework
12 35 53.19  Wood Laboratory Casework
12 35 53.23  Solid-Plastic Laboratory Casework
12 35 59  Display Casework
12 35 70  Healthcare Casework
12 35 70.13  Hospital Casework
12 35 70.16  Nurse Station Casework
12 35 70.19  Exam Room Casework
12 35 70.74  Dental Casework
12 35 83  Performing Arts Casework
12 35 91  Religious Casework

12 36 00  Countertops
12 36 13  Concrete Countertops
12 36 16  Metal Countertops
12 36 19  Wood Countertops
12 36 23  Plastic Countertops
12 36 23.13  Plastic-Laminate-Clad Countertops
12 36 26  Glass Countertops
12 36 40  Stone Countertops
12 36 53  Laboratory Countertops
12 36 61  Simulated Stone Countertops
12 36 61.13  Cultured Marble Countertops
12 36 61.16  Solid Surfacing Countertops
12 36 61.19  Quartz Agglomerate Countertops
12 36 71  Paper-Composite Countertops

12 40 00  Furnishings and Accessories

12 41 00  Office Accessories
12 41 13  Desk Accessories

12 42 00  Table Accessories
12 42 13  Ceramics
12 42 16  Flatware
12 42 16.13  Silverware
12 42 19  Hollowware
12 42 23  Glassware
12 42 26  Table Linens
12 42 26.13  Napery

12 43 00  Portable Lamps
12 43 13  Lamps
12 43 13.13  Desk Lamps
12 43 13.16  Table Lamps
12 43 13.19  Floor Lamps

12 44 00  Bath Furnishings
12 44 13  Bath Linens
12 44 13.13  Bath Mats
12 44 13.16 Bath Towels
12 44 16 Shower Curtains

**12 45 00 Bedroom Furnishings**
12 45 13 Bed Linens
12 45 13.13 Blankets
12 45 13.16 Comforters
12 45 16 Pillows

**12 46 00 Furnishing Accessories**
12 46 13 Ash Receptacles
12 46 16 Bowls
12 46 19 Clocks
12 46 23 Decorative Crafts
12 46 26 Decorative Screens
12 46 29 Vases
12 46 33 Waste Receptacles

**12 48 00 Rugs and Mats**
12 48 13 Entrance Floor Mats and Frames
12 48 13.13 Entrance Floor Mats
12 48 13.16 Entrance Floor Mat Frames
12 48 16 Entrance Floor Grilles
12 48 19 Entrance Floor Gratings
12 48 23 Entrance Floor Grids
12 48 26 Entrance Tile
12 48 43 Floor Mats
12 48 43.13 Chair Mats
12 48 43.23 Anti-Fatigue Floor Mats
12 48 43.26 Fall-Cushioning Floor Mats
12 48 53 Rugs
12 48 53.13 Runners
12 48 53.16 Oriental Rugs

**12 50 00 Furniture**

**12 51 00 Office Furniture**
12 51 16 Case Goods
12 51 16.13 Metal Case Goods
12 51 16.16 Wood Case Goods
12 51 16.19 Plastic-Laminate-Clad Case Goods
12 51 19 Filing Cabinets
12 51 19.13 Lateral Filing Cabinets
12 51 19.16 Vertical Filing Cabinets
12 51 23 Office Tables
12 51 83 Custom Office Furniture

**12 52 00 Seating**
12 52 13 Chairs
12 52 19 Upholstered Seating
12 52 23 Office Seating
12 52 70 Healthcare Seating
12 52 83 Custom Seating

**12 53 00 Retail Furniture**
12 53 83 Custom Retail Furniture

**12 54 00 Hospitality Furniture**
12 54 13 Hotel and Motel Furniture
12 54 16 Restaurant Furniture
12 54 83 Custom Hospitality Furniture

12 55 00 Detention Furniture
12 55 13 Detention Bunks
12 55 16 Detention Desks
12 55 19 Detention Stools
12 55 23 Detention Tables
12 55 26 Detention Safety Clothes Hooks
12 55 83 Custom Detention Furniture
12 55 86 Detention Control Room Furniture

12 56 00 Institutional Furniture
12 56 23 Religious Furniture
12 56 33 Classroom Furniture
12 56 33.13 Fixed Classroom Tables
12 56 33.23 Classroom Computer Furniture
12 56 39 Lecterns
12 56 43 Dormitory Furniture
12 56 51 Library Furniture
12 56 51.13 Book Shelves
12 56 51.16 Study Carrels
12 56 51.19 Index Card File Cabinets
12 56 52 Audio-Visual Furniture
12 56 53 Laboratory Furniture
12 56 70 Healthcare Furniture
12 56 83 Custom Institutional Furniture
12 56 86 Institutional Control Room Furniture

12 57 00 Industrial Furniture
12 57 13 Welding Benches
12 57 16 Welding Screens
12 57 19 Laser Containment Screens
12 57 83 Custom Industrial Furniture
12 57 86 Industrial Control Room Furniture

12 58 00 Residential Furniture
12 58 13 Couches and Loveseats
12 58 13.13 Futons
12 58 16 Residential Chairs
12 58 16.13 Reclining Chairs
12 58 19 Dining Tables and Chairs
12 58 23 Coffee Tables
12 58 26 Entertainment Centers
12 58 29 Beds
12 58 29.13 Daybeds
12 58 33 Dressers
12 58 33.13 Armoires
12 58 36 Nightstands
12 58 83 Custom Residential Furniture

12 59 00 Systems Furniture
12 59 13 Panel-Hung Component System Furniture
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<td>12 61 16</td>
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**13 05 00** Common Work Results for Special Construction
- 13 05 05 Selective Demolition for Special Construction

**13 06 00** Schedules for Special Construction
- 13 06 10 Schedules for Special Facility Components
- 13 06 20 Schedules for Special Purpose Rooms
- 13 06 30 Schedules for Special Structures
- 13 06 40 Schedules for Integrated Construction
- 13 06 50 Schedules for Special Instrumentation

**13 08 00** Commissioning of Special Construction
- 13 08 10 Commissioning of Special Facility Components
- 13 08 11 Commissioning of Swimming Pools
- 13 08 12 Commissioning of Fountains
- 13 08 13 Commissioning of Aquariums
- 13 08 14 Commissioning of Amusement Park Structures and Equipment
- 13 08 18 Commissioning of Ice Rinks
- 13 08 20 Commissioning of Special Purpose Rooms
- 13 08 21 Commissioning of Controlled Environment Rooms
- 13 08 23 Commissioning of Planetariums
- 13 08 30 Commissioning of Special Structures
- 13 08 40 Commissioning of Integrated Construction
- 13 08 50 Commissioning of Special Instrumentation

**13 10 00** Special Facility Components

**13 11 00** Swimming Pools
- 13 11 13 Below-Grade Swimming Pools
- 13 11 23 On-Grade Swimming Pools
- 13 11 33 Elevated Swimming Pools
- 13 11 43 Recirculating Gutter Systems
- 13 11 46 Swimming Pool Accessories
- 13 11 49 Swimming Pool Cleaning Equipment
- 13 11 53 Movable Pool Bulkheads
- 13 11 56 Movable Pool Floors

**13 12 00** Fountains
- 13 12 13 Exterior Fountains
- 13 12 23 Interior Fountains

**13 13 00** Aquariums

**13 14 00** Amusement Park Structures and Equipment
- 13 14 13 Water Slides
- 13 14 16 Wave Generating Equipment
- 13 14 23 Amusement Park Rides

**13 15 00** Specialty Element Construction

**13 17 00** Tubs and Pools
13 17 13  Hot Tubs
13 17 23  Therapeutic Pools
13 17 33  Whirlpool Tubs
13 18 00  Ice Rinks
13 18 13  Ice Rink Floor Systems
13 18 16  Ice Rink Dasher Boards
13 19 00  Kennels and Animal Shelters
13 19 13  Kennel Enclosures and Gates
13 19 16  Kennel Feeding Devices
13 19 19  Animal Washing Tubs
13 20 00  Special Purpose Rooms
13 21 00  Controlled Environment Rooms
13 21 13  Clean Rooms
13 21 16  Hyperbaric Rooms
13 21 23  Insulated Rooms
13 21 26  Cold Storage Rooms
13 21 26.13  Walk-in Coolers
13 21 26.16  Walk-in Freezers
13 21 29  Constant Temperature Rooms
13 21 48  Sound-Conditioned Rooms
13 22 00  Office Shelters and Booths
13 23 00  Planetariums
13 24 00  Special Activity Rooms
13 24 16  Saunas
13 24 26  Steam Baths
13 24 66  Athletic Rooms
13 26 00  Fabricated Rooms
13 26 13  Storm Shelter Rooms
13 27 00  Vaults
13 27 16  Modular Fire Vaults
13 27 53  Security Vaults
13 27 53.13  Modular Concrete Security Vaults
13 27 53.16  Modular Metal-Clad Laminated Security Vaults
13 28 00  Athletic and Recreational Special Construction
13 28 13  Indoor Soccer Boards
13 28 16  Safety Netting
13 28 19  Arena Football Boards
13 28 26  Floor Sockets
13 28 33  Athletic and Recreational Court Walls
13 28 66  Demountable Athletic Surfaces
13 30 00  Special Structures
13 31 00  Fabric Structures
13 31 13  Air-Supported Fabric Structures
13 31 13.13  Single-Walled Air-Supported Structures
13 31 13.16  Multiple-Walled Air-Supported Structures
13 31 23  Tensioned Fabric Structures
13 31 33  Framed Fabric Structures
13 32 00  Space Frames
   13 32 13  Metal Space Frames
   13 32 23  Wood Space Frames
13 33 00  Geodesic Structures
   13 33 13  Geodesic Domes
13 34 00  Fabricated Engineered Structures
   13 34 13  Glazed Structures
   13 34 13.13  Greenhouses
   13 34 13.16  Solariums
   13 34 13.19  Swimming Pool Enclosures
   13 34 13.23  Sunrooms
   13 34 13.26  Conservatories
   13 34 16  Grandstands and Bleachers
   13 34 16.13  Grandstands
   13 34 16.53  Bleachers
   13 34 18  Post Frame Building Systems
   13 34 19  Metal Building Systems
   13 34 23  Fabricated Structures
   13 34 23.13  Portable and Mobile Buildings
   13 34 23.14  Fabricated Classroom Buildings
   13 34 23.16  Fabricated Control Booths
   13 34 23.19  Fabricated Dome Structures
   13 34 23.23  Fabricated Substation Control Rooms
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13 35 00  Rammed Earth Construction
   13 35 13  Rammed Earth Walls
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   13 35 13.23  Stabilized Insulated Rammed Earth Walls
13 36 00  Towers
   13 36 13  Metal Towers
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13 40 00  Integrated Construction
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   13 42 13  Bathroom Unit Modules
   13 42 25  Hospitality Unit Modules
   13 42 33  Apartment Unit Modules
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   13 42 63  Detention Cell Modules
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13 44 00  Modular Mezzanines
13 47 00  Facility Protection
   13 47 13  Cathodic Protection
   13 47 13.13  Cathodic Protection for Underground and Submerged Piping
   13 47 13.16  Cathodic Protection for Underground Storage Tanks
   13 47 13.19  Cathodic Protection for Concrete Reinforcing
13 48 00  Sound, Vibration, and Seismic Control
13 48 13 Manufactured Sound and Vibration Control Components
13 48 23 Fabricated Sound and Vibration Control Assemblies
13 48 53 Manufactured Seismic Control Components
13 48 63 Fabricated Seismic Control Assemblies

13 49 00 Radiation Protection
13 49 13 Integrated X-Ray Shielding Assemblies
13 49 16 Modular X-Ray Shielding Rooms
13 49 23 Integrated RFI/EMI Shielding Assemblies
13 49 26 Modular RFI/EMI Shielding Rooms

13 50 00 Special Instrumentation
13 51 00 Stress Instrumentation
13 52 00 Seismic Instrumentation
13 53 00 Meteorological Instrumentation
13 53 13 Solar Instrumentation
13 53 23 Wind Instrumentation

14 00 00 Conveying Equipment
14 01 00 Operation and Maintenance of Conveying Equipment
14 01 10 Operation and Maintenance of Dumbwaiters
14 01 10.71 Dumbwaiter Rehabilitation
14 01 20 Operation and Maintenance of Elevators
14 01 20.71 Elevator Rehabilitation
14 01 30 Operation and Maintenance of Escalators and Moving Walks
14 01 30.71 Escalators and Moving Walks Rehabilitation
14 01 40 Operation and Maintenance of Lifts
14 01 40.71 Lift Rehabilitation
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14 01 90 Operation and Maintenance of Other Conveying Equipment

14 05 00 Common Work Results for Conveying Equipment
14 05 05 Selective Demolition for Conveying Equipment

14 06 00 Schedules for Conveying Equipment
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14 06 20 Schedules for Elevators
14 06 20.13 Elevator Equipment Schedule
14 06 30 Schedules for Escalators and Moving Walks
14 06 40 Schedules for Lifts
14 06 40.13 Lift Schedule
14 06 70 Schedules for Turntables
14 06 80 Schedules for Scaffolding
14 06 90 Schedules for Other Conveying Equipment

14 08 00 Commissioning of Conveying Equipment
14 08 10 Commissioning of Dumbwaiters
14 08 20 Commissioning of Elevators
14 08 30 Commissioning of Escalators and Moving Walks
14 08 40 Commissioning of Lifts
14 08 70 Commissioning of Turntables
14 08 80 Commissioning of Scaffolding
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| 14 11 00 | Manual Dumbwaiters |
| 14 12 00 | Electric Dumbwaiters |
| 14 14 00 | Hydraulic Dumbwaiters |
| 14 20 00 | Elevators |
| 14 21 00 | Electric Traction Elevators |
| 14 21 13 | Electric Traction Freight Elevators |
| 14 21 23 | Electric Traction Passenger Elevators |
| 14 21 23.13 | Machine Room Electric Traction Passenger Elevators |
| 14 21 23.16 | Machine Room-Less Electric Traction Passenger Elevators |
| 14 21 33 | Electric Traction Residential Elevators |
| 14 21 43 | Electric Traction Service Elevators |
| 14 24 00 | Hydraulic Elevators |
| 14 24 13 | Hydraulic Freight Elevators |
| 14 24 23 | Hydraulic Passenger Elevators |
| 14 24 33 | Hydraulic Residential Elevators |
| 14 24 43 | Hydraulic Service Elevators |
| 14 26 00 | Limited-Use/Limited-Application Elevators |
| 14 27 00 | Custom Elevator Cabs and Doors |
| 14 27 13 | Custom Elevator Cab Finishes |
| 14 27 16 | Custom Elevator Doors |
| 14 28 00 | Elevator Equipment and Controls |
| 14 28 16 | Elevator Controls |
| 14 28 19 | Elevator Equipment |
| 14 28 19.13 | Elevator Safety Equipment |
| 14 28 19.16 | Elevator Hoistway Equipment |
| 14 30 00 | Escalators and Moving Walks |
| 14 31 00 | Escalators |
| 14 32 00 | Moving Walks |
| 14 33 00 | Moving Ramps |
| 14 33 13 | Motorized Ramps |
| 14 33 16 | Powered Ramps |
| 14 40 00 | Lifts |
| 14 41 00 | People Lifts |
| 14 41 13 | Counterbalanced People Lifts |
| 14 41 16 | Endless-Belt People Lifts |
| 14 41 19 | Stairway Chairlifts |
| 14 42 00 | Wheelchair Lifts |
| 14 42 13 | Inclined Wheelchair Lifts |
| 14 42 16 | Vertical Wheelchair Lifts |
| 14 43 00 | Platform Lifts |
| 14 43 13 | Orchestra Lifts |
| 14 43 16 | Stage Lifts |
| 14 44 00 | Sidewalk Lifts |
14 45 00 Vehicle Lifts
   14 45 13 Vehicle Service Lifts
   14 45 23 Vehicle Parking Lifts
14 46 00 Material Lifts
14 70 00 Turntables
14 71 00 Industrial Turntables
   14 71 11 Vehicle Turntables
14 72 00 Hospital Turntables
   14 72 25 Restaurant Turntables
14 73 00 Exhibit Turntables
   14 73 59 Display Turntables
14 74 00 Entertainment Turntables
   14 74 61 Stage Turntables
14 80 00 Scaffolding
14 81 00 Suspended Scaffolding
   14 81 13 Beam Scaffolding
   14 81 16 Carriage Scaffolding
   14 81 19 Hook Scaffolding
14 82 00 Rope Climbers
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   14 82 16 Powered Rope Climbers
14 83 00 Elevating Platforms
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- **23 61 13** Centrifugal Refrigerant Compressors
- **23 61 13.13** Non-Condensable Gas Purge Equipment
- **23 61 16** Reciprocating Refrigerant Compressors
- **23 61 19** Scroll Refrigerant Compressors
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- **23 62 13** Packaged Air-Cooled Refrigerant Compressor and Condenser Units
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- **23 65 13.13** Open-Circuit, Forced-Draft Cooling Towers
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23 71 13.13  Room Storage Heaters for Thermal Storage  
23 71 13.16  Heat-Pump Boosters for Thermal Storage  
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23 71 13.23  Pressurized-Water Thermal Storage Tanks  
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23 71 19.13  Internal Ice-on-Coil Thermal Storage  
23 71 19.16  External Ice-on-Coil Thermal Storage  
23 71 19.19  Encapsulated-Ice Thermal Storage  
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  31 34 23.13  Geosynthetic Fiber Soil Reinforcement

31 35 00  Slope Protection
  31 35 19  Geosynthetic Slope Protection
  31 35 19.13  Geogrid Slope Protection
  31 35 19.16  Geotextile Slope Protection
  31 35 19.19  Slope Protection with Mulch Control Netting
  31 35 23  Slope Protection with Slope Paving
  31 35 23.13  Cast-In-Place Concrete Slope Paving
  31 35 23.16  Precast Concrete Slope Paving
  31 35 23.19  Concrete Unit Masonry Slope Paving
  31 35 26  Containment Barriers
  31 35 26.13  Clay Containment Barriers
  31 35 26.16  Geomembrane Containment Barriers
  31 35 26.23  Bentonite Slurry Trench

31 36 00  Gabions
  31 36 13  Gabion Boxes
  31 36 19  Gabion Mattresses
  31 36 19.13  Vegetated Gabion Mattresses

31 37 00  Riprap
  31 37 13  Machined Riprap
  31 37 16  Non-Machined Riprap
  31 37 16.13  Rubble-Stone Riprap
  31 37 16.16  Concrete Unit Masonry Riprap
  31 37 16.19  Sacked Sand-Cement Riprap

31 40 00  Shoring and Underpinning

31 41 00  Shoring
  31 41 13  Timber Shoring
  31 41 16  Sheet Piling
  31 41 16.13  Steel Sheet Piling
  31 41 16.16  Plastic Sheet Piling
  31 41 19  Metal Hydraulic Shoring
31 41 19.13 Aluminum Hydraulic Shoring
31 41 23 Pneumatic Shoring
31 41 33 Trench Shielding
31 43 00 Concrete Raising
31 43 13 Pressure Grouting
31 43 13.13 Concrete Pressure Grouting
31 43 13.16 Polyurethane Pressure Grouting
31 43 16 Compaction Grouting
31 43 19 Mechanical Jacking
31 45 00 Vibroflotation and Densification
31 45 13 Vibroflotation
31 45 16 Densification
31 46 00 Needle Beams
31 46 13 Cantilever Needle Beams
31 48 00 Underpinning
31 48 13 Underpinning Piers
31 48 19 Bracket Piers
31 48 23 Jacked Piers
31 48 33 Micropile Underpinning
31 50 00 Excavation Support and Protection
31 51 00 Anchor Tiebacks
31 51 13 Excavation Soil Anchors
31 51 16 Excavation Rock Anchors
31 52 00 Cofferdams
31 52 13 Sheet Piling Cofferdams
31 52 16 Timber Cofferdams
31 52 19 Precast Concrete Cofferdams
31 53 00 Cribbing and Walers
31 53 13 Timber Cribwork
31 54 00 Ground Freezing
31 56 00 Slurry Walls
31 56 13 Bentonite Slurry Walls
31 56 13.13 Soil-Bentonite Slurry Walls
31 56 13.16 Cement-Bentonite Slurry Walls
31 56 13.19 Slag-Cement-Bentonite Slurry Walls
31 56 13.23 Soil-Cement-Bentonite Slurry Walls
31 56 13.26 Pozzolan-Bentonite Slurry Walls
31 56 13.29 Organically-Modified Bentonite Slurry Walls
31 56 16 Attipulgite Slurry Walls
31 56 16.13 Soil-Attipulgite Slurry Walls
31 56 19 Slurry-Geomembrane Composite Slurry Walls
31 56 23 Lean Concrete Slurry Walls
31 56 26 Bio-Polymer Trench Drain
31 60 00 Special Foundations and Load-Bearing Elements
31 62 00 Driven Piles
31 62 13 Concrete Piles
31 62 13.13 Cast-in-Place Concrete Piles
31 62 13.16 Concrete Displacement Piles
31 62 13.19 Precast Concrete Piles
31 62 13.23 Prestressed Concrete Piles
31 62 13.26 Pressure-Injected Footings
31 62 16 Steel Piles
31 62 16.13 Sheet Steel Piles
31 62 16.16 Steel H Piles
31 62 16.19 Unfilled Tubular Steel Piles
31 62 19 Timber Piles
31 62 23 Composite Piles
31 62 23.13 Concrete-Filled Steel Piles
31 62 23.16 Wood and Cast-In-Place Concrete Piles

31 63 00 Bored Piles
31 63 13 Bored and Augered Test Piles
31 63 16 Auger Cast Grout Piles
31 63 19 Bored and Socketed Piles
31 63 19.13 Rock Sockets for Piles
31 63 23 Bored Concrete Piles
31 63 23.13 Bored and Belled Concrete Piles
31 63 23.16 Bored Friction Concrete Piles
31 63 26 Drilled Caissons
31 63 26.13 Fixed End Caisson Piles
31 63 26.16 Concrete Caissons for Marine Construction
31 63 29 Drilled Concrete Piers and Shafts
31 63 29.13 Uncased Drilled Concrete Piers
31 63 29.16 Cased Drilled Concrete Piers
31 63 33 Drilled Micropiles

31 64 00 Caissons
31 64 13 Box Caissons
31 64 16 Excavated Caissons
31 64 19 Floating Caissons
31 64 23 Open Caissons
31 64 26 Pneumatic Caissons
31 64 29 Sheeted Caissons

31 66 00 Special Foundations
31 66 13 Special Piles
31 66 13.13 Rammed Aggregate Piles
31 66 15 Helical Foundation Piles
31 66 16 Special Foundation Walls
31 66 16.13 Anchored Foundation Walls
31 66 16.23 Concrete Cribbing Foundation Walls
31 66 16.26 Metal Cribbing Foundation Walls
31 66 16.33 Manufactured Modular Foundation Walls
31 66 16.43 Mechanically Stabilized Earth Foundation Walls
31 66 16.46 Slurry Diaphragm Foundation Walls
31 66 16.53 Soldier-Beam Foundation Walls
31 66 16.56 Permanently-Anchored Soldier-Beam Foundation Walls
31 66 19 Refrigerated Foundations

31 68 00 Foundation Anchors
31 68 13 Rock Foundation Anchors
31 68 16 Helical Foundation Anchors
31 70 00  Tunneling and Mining

31 71 00  Tunnel Excavation
31 71 13  Shield Driving Tunnel Excavation
31 71 16  Tunnel Excavation by Drilling and Blasting
31 71 19  Tunnel Excavation by Tunnel Boring Machine
31 71 23  Tunneling by Cut and Cover

31 72 00  Tunnel Support Systems
31 72 13  Rock Reinforcement and Initial Support
31 72 16  Steel Ribs and Lagging

31 73 00  Tunnel Grouting
31 73 13  Cement Tunnel Grouting
31 73 16  Chemical Tunnel Grouting

31 74 00  Tunnel Construction
31 74 13  Cast-in-Place Concrete Tunnel Lining
31 74 16  Precast Concrete Tunnel Lining
31 74 19  Shotcrete Tunnel Lining

31 75 00  Shaft Construction
31 75 13  Cast-in-Place Concrete Shaft Lining
31 75 16  Precast Concrete Shaft Lining

31 77 00  Submersible Tube Tunnels
31 77 13  Trench Excavation for Submerged Tunnels
31 77 16  Tube Construction (Outfitting Tunnel Tubes)
31 77 19  Floating and Laying Submerged Tunnels

32 00 00  Exterior Improvements

32 01 00  Operation and Maintenance of Exterior Improvements
32 01 11  Paving Cleaning
32 01 11.51  Rubber and Paint Removal from Paving
32 01 11.52  Rubber Removal from Paving
32 01 11.53  Paint Removal from Paving
32 01 13  Flexible Paving Surface Treatment
32 01 13.61  Slurry Seal (Latex Modified)
32 01 13.62  Asphalt Surface Treatment
32 01 16  Flexible Paving Rehabilitation
32 01 16.71  Cold Milling Asphalt Paving
32 01 16.72  Asphalt Paving Reuse
32 01 16.73  In Place Cold Reused Asphalt Paving
32 01 16.74  In Place Hot Reused Asphalt Paving
32 01 16.75  Heater Scarifying of Asphalt Paving
32 01 17  Flexible Paving Repair
32 01 17.61  Sealing Cracks in Asphalt Paving
32 01 17.62  Stress-Absorbing Membrane Interlayer
32 01 19  Rigid Paving Surface Treatment
32 01 19.61  Sealing of Joints in Rigid Paving
32 01 19.62  Patching of Rigid Paving
32 01 23  Base Course Reconditioning
32 01 26  Rigid Paving Rehabilitation
32 01 26.71  Grooving of Concrete Paving
32 01 26.72  Grinding of Concrete Paving
32 01 26.73  Milling of Concrete Paving
32 01 26.74 Concrete Overlays
32 01 26.75 Concrete Paving Reuse
32 01 29 Rigid Paving Repair
32 01 29.61 Partial Depth Patching of Rigid Paving
32 01 29.62 Concrete Paving Raising
32 01 29.63 Subsealing and Stabilization
32 01 30 Operation and Maintenance of Site Improvements
32 01 30.13 Snow Removal
32 01 80 Operation and Maintenance of Irrigation
32 01 90 Operation and Maintenance of Planting
32 01 90.13 Fertilizing
32 01 90.16 Amending Soils
32 01 90.19 Mowing
32 01 90.23 Pruning
32 01 90.26 Watering
32 01 90.29 Topsoil Preservation
32 01 90.33 Tree and Shrub Preservation
32 01 30 00 Common Work Results for Exterior Improvements
32 01 5 05 Selective Demolition for Exterior Improvements
32 01 13 Soils for Exterior Improvements
32 01 19 Geosynthetics for Exterior Improvements
32 01 19.13 Geotextiles for Exterior Improvements
32 01 19.16 Geomembranes for Exterior Improvements
32 01 19.19 Geogrids for Exterior Improvements
32 01 23 Cement and Concrete for Exterior Improvements
32 01 33 Common Work Results for Planting
32 02 00 Schedules for Exterior Improvements
32 02 10 Schedules for Bases, Ballasts, and Paving
32 02 10.13 Pedestrian Walkway Schedule
32 02 30 Schedules for Site Improvements
32 02 30.13 Retaining Wall Schedule
32 02 80 Schedules for Irrigation
32 02 80.13 Irrigation Piping Schedule
32 02 90 Schedules for Planting
32 02 90.13 Planting Schedule
32 08 00 Commissioning of Exterior Improvements
32 10 00 Bases, Ballasts, and Paving
32 11 00 Base Courses
32 11 13 Subgrade Modifications
32 11 13.13 Lime-Treated Subgrades
32 11 13.16 Bituminous-Treated Subgrades
32 11 16 Subbase Courses
32 11 16.13 Sand-Clay Subbase Courses
32 11 16.16 Aggregate Subbase Courses
32 11 23 Aggregate Base Courses
32 11 23.13 Sand-Clay Base Courses
32 11 23.23 Base Course Drainage Layers
32 11 26 Asphaltic Base Courses
32 11 26.13 Plant Mix Asphaltic Base Courses
32 11 26.16 Road Mix Asphaltic Base Courses
32 11 26.19 Bituminous-Stabilized Base Courses
32 11 29  Lime Treated Base Courses
32 11 29.13  Lime-Fly Ash-Treated Base Courses
32 11 33  Cement-Treated Base Courses
32 11 33.13  Portland Cement-Stabilized Base Courses
32 11 36  Concrete Base Courses
32 11 36.11  Soil-Cement Concrete Base Courses
32 11 36.13  Lean Concrete Base Courses
32 11 36.16  Plain Cement Concrete Base Courses
32 11 36.19  Hydraulic Cement Concrete Base Courses
32 11 39  Shell Base Course

32 12 00  Flexible Paving
32 12 13  Preparatory Coats
32 12 13.13  Tack Coats
32 12 13.16  Asphaltic Tack Coats
32 12 13.19  Prime Coats
32 12 13.23  Asphaltic Prime Coats
32 12 16  Asphalt Paving
32 12 16.13  Plant-Mix Asphalt Paving
32 12 16.16  Road-Mix Asphalt Paving
32 12 16.19  Cold-Mix Asphalt Paving
32 12 16.23  Reinforced Asphalt Paving
32 12 16.26  Fiber-Modified Asphalt Paving
32 12 16.29  Polymer-Modified Asphalt Paving
32 12 16.33  Granulated Rubber-Modified Asphalt Paving
32 12 16.36  Athletic Asphalt Paving
32 12 19  Asphalt Paving Wearing Courses
32 12 19.13  Road-Mix Asphalt Paving Wearing Courses
32 12 19.16  Resin-Modified Asphalt Paving Wearing Courses
32 12 19.19  Porous Friction Asphalt Paving Wearing Courses
32 12 33  Flexible Paving Surface Treatments
32 12 36  Seal Coats
32 12 36.13  Asphaltic Seal and Fog Coats
32 12 36.16  Coal Tar Seal Coats
32 12 36.19  Coal Tar Seal Coats with Unvulcanized Rubber
32 12 36.23  Fuel-Resistant Sealers
32 12 43  Porous Flexible Paving
32 12 73  Asphalt Paving Joint Sealants

32 13 00  Rigid Paving
32 13 13  Concrete Paving
32 13 13.13  Exposed Aggregate Concrete Paving
32 13 13.16  Power-Compacted Concrete Paving
32 13 13.17  Roller-Compacted Concrete Paving
32 13 13.19  Prestressed Concrete Paving
32 13 13.23  Concrete Paving Surface Treatment
32 13 13.26  Stained Concrete Paving
32 13 13.33  Plain Concrete Paving
32 13 16  Decorative Concrete Paving
32 13 16.13  Patterned Concrete Paving
32 13 16.19  Imprinted Concrete Paving
32 13 16.23  Stamped Concrete Paving
32 13 43  Pervious Concrete Paving
32 13 73  Concrete Paving Joint Sealants
32 13 73.13  Fuel-Resistant Concrete Paving Joint Sealants
32 13 73.16  Field-Molded Concrete Paving Joint Sealants
32 14 00  Unit Paving
32 14 13  Precast Concrete Unit Paving
32 14 13.13  Interlocking Precast Concrete Unit Paving
32 14 13.16  Precast Concrete Unit Paving Slabs
32 14 13.19  Porous Precast Concrete Unit Paving
32 14 16  Brick Unit Paving
32 14 23  Asphalt Unit Paving
32 14 26  Wood Paving
32 14 29  Rubber Paving
32 14 33  Plastic Paving
32 14 33.13  Permeable Plastic Paving
32 14 40  Stone Paving
32 14 43  Porous Unit Paving

32 15 00  Aggregate Surfacing
32 15 13  Cinder Surfacing
32 15 40  Crushed Stone Surfacing
32 15 50  Aggregate-Turf Pavement

32 16 00  Curbs, Gutters, Sidewalks, and Driveways
32 16 13  Curbs and Gutters
32 16 13.13  Cast-In-Place Concrete Curbs and Gutters
32 16 13.16  Steel Faced Curbs
32 16 13.23  Precast Concrete Curbs and Gutters
32 16 13.33  Asphalt Curbs
32 16 13.43  Stone Curbs
32 16 23  Sidewalks
32 16 33  Driveways

32 17 00  Paving Specialties
32 17 13  Parking Bumpers
32 17 13.13  Metal Parking Bumpers
32 17 13.16  Plastic Parking Bumpers
32 17 13.19  Precast Concrete Parking Bumpers
32 17 13.23  Rubber Parking Bumpers
32 17 13.26  Wood Parking Bumpers
32 17 16  Manufactured Traffic-Calming Devices
32 17 23  Pavement Markings
32 17 23.13  Painted Pavement Markings
32 17 23.23  Raised Pavement Markings
32 17 23.33  Plastic Pavement Markings
32 17 26  Tactile Warning Surfacing
32 17 29  Pavement Embedded Warning Lights
32 17 43  Pavement Snow Melting Systems

32 18 00  Athletic and Recreational Surfacing
32 18 13  Synthetic Grass Surfacing
32 18 16  Synthetic Resilient Surfacing
32 18 16.13  Playground Protective Surfacing
32 18 23  Athletic Surfacing
32 18 23.13  Baseball Field Surfacing
32 18 23.16  Natural Baseball Field Surfacing
32 18 23.19  Synthetic Baseball Field Surfacing
32 18 23.23  Field Sport Surfacing
32 18 23.26  Natural Field Sport Surfacing
32 18 23.29  Synthetic Field Sport Surfacing
32 18 23.33  Running Track Surfacing
32 18 23.36  Natural Running Track Surfacing
32 18 23.39  Synthetic Running Track Surfacing
32 18 23.43  Recreational Court Surfacing
32 18 23.53  Tennis Court Surfacing
32 18 23.56  Natural Tennis Court Surfacing
32 18 23.59  Synthetic Tennis Court Surfacing
32 18 23.63  Equestrian Surfacing

32 30 00  Site Improvements

32 31 00  Fences and Gates
32 31 11  Gate Operators
32 31 13  Chain Link Fences and Gates
32 31 13.23  Recreational Court Fences and Gates
32 31 13.26  Tennis Court Fences and Gates
32 31 13.29  Tennis Court Wind Breaker
32 31 13.33  Chain Link Backstops
32 31 13.53  High-Security Chain Link Fences and Gates
32 31 16  Welded Wire Fences and Gates
32 31 17  Expanded Metal Fences and Gates
32 31 19  Decorative Metal Fences and Gates
32 31 19.53  Decorative Metal Security Fences and Gates
32 31 23  Plastic Fences and Gates
32 31 26  Wire Fences and Gates
32 31 26.11  Wire Fences with Wood Posts
32 31 26.13  Wire Fences with Steel Posts
32 31 29  Wood Fences and Gates
32 31 32  Composite Fences and Gates
32 31 53  Cattle Guards
32 31 56  Wild Life Deterrent Fence

32 32 00  Retaining Walls
32 32 13  Cast-in-Place Concrete Retaining Walls
32 32 16  Precast Concrete Retaining Walls
32 32 19  Unit Masonry Retaining Walls
32 32 23  Segmental Retaining Walls
32 32 23.13  Segmental Concrete Unit Masonry Retaining Walls
32 32 23.16  Manufactured Modular Walls
32 32 26  Metal Crib Retaining Walls
32 32 29  Timber Retaining Walls
32 32 34  Reinforced Soil Retaining Walls
32 32 36  Gabion Retaining Walls
32 32 43  Soldier-Beam Retaining Walls
32 32 53  Stone Retaining Walls

32 33 00  Site Furnishings
32 33 13  Site Bicycle Racks
32 33 14  Site Bicycle Lockers
32 33 23  Site Trash and Litter Receptacles
32 33 33  Site Manufactured Planters
32 33 43  Site Seating and Tables
32 33 43.13  Site Seating
32 33 43.53  Site Tables
32 34 00  Fabricated Bridges
  32 34 13  Fabricated Pedestrian Bridges
  32 34 23  Fabricated Roadway Bridges
  32 34 33  Fabricated Railway Bridges
32 35 00  Screening Devices
  32 35 13  Screens and Louvers
  32 35 16  Sound Barriers
  32 35 23  Fire Barriers
  32 35 26  Blast Barriers
32 39 00  Manufactured Site Specialties
  32 39 13  Manufactured Metal Bollards
  32 39 13.11 Manufactured Metal Security Bollards
  32 39 16  Manufactured Fire Pits
  32 39 33  Artificial Rock Fabrications
32 70 00  Wetlands
32 71 00  Constructed Wetlands
32 72 00  Wetlands Restoration
32 80 00  Irrigation
  32 81 00  Irrigation Components
    32 81 13  Irrigation Intake Screens
32 82 00  Irrigation Pumps
32 84 00  Planting Irrigation
    32 84 13  Drip Irrigation
    32 84 23  Underground Sprinklers
32 86 00  Agricultural Irrigation
32 90 00  Planting
  32 91 00  Planting Preparation
    32 91 13  Soil Preparation
    32 91 13.13 Hydro-Punching
    32 91 13.16 Mulching
    32 91 13.19 Planting Soil Mixing
    32 91 13.23 Structural Soil Mixing
    32 91 13.26 Planting Beds
    32 91 16  Planting Soil Stabilization
    32 91 16.13 Blanket Planting Soil Stabilization
    32 91 16.16 Mat Planting Soil Stabilization
    32 91 16.19 Netting Planting Soil Stabilization
    32 91 19  Landscape Grading
    32 91 19.13 Topsoil Placement and Grading
32 92 00  Turf and Grasses
  32 92 13  Hydro-Mulching
  32 92 16  Plugging
  32 92 19  Seeding
  32 92 19.13  Mechanical Seeding
  32 92 19.16  Hydraulic Seeding
  32 92 23  Sodding
  32 92 26  Sprigging
32 92 26.13 Stolonizing

32 93 00 Plants
32 93 13 Ground Covers
32 93 23 Plants and Bulbs
32 93 33 Shrubs
32 93 43 Trees
32 93 93 Exterior Artificial Plants

32 94 00 Planting Accessories
32 94 13 Landscape Edging
32 94 16 Landscape Timbers
32 94 19 Landscape Surfacing
32 94 33 Planters
32 94 43 Tree Grates
32 94 46 Tree Grids

32 95 00 Exterior Planting Support Structures

32 96 00 Transplanting
32 96 13 Ground Cover Transplanting
32 96 23 Plant and Bulb Transplanting
32 96 33 Shrub Transplanting
32 96 43 Tree Transplanting

33 00 00 Utilities

33 01 00 Operation and Maintenance of Utilities
33 01 10 Operation and Maintenance of Water Utilities
33 01 10.51 Water Utility Intake Cleaning and Maintenance
33 01 10.52 Reservoir Maintenance
33 01 10.53 Flushing of Water Utility Piping
33 01 10.54 Cleaning of Water Utility Piping
33 01 10.56 Cleaning of Water Utility Storage Tanks
33 01 10.57 Disinfection of Water Supply Wells
33 01 10.58 Disinfection of Water Utility Piping Systems
33 01 10.59 Disinfection of Water Utility Storage Tanks
33 01 10.81 Water Supply Well Abandonment
33 01 10.91 Rehabilitation of Water Supply Wells
33 01 10.92 Redevelopment of Water Supply Wells
33 01 12 Inspection and Testing of Water Utilities
33 01 12.11 Leakage Detection
33 01 12.13 Electrical Continuity Testing
33 01 30 Operation and Maintenance of Sewer Utilities
33 01 30.11 Television Inspection of Sewers
33 01 30.13 Dye Testing of Sewers
33 01 30.16 Smoke Testing
33 01 30.23 Pipe Bursting
33 01 30.41 Cleaning of Sewers
33 01 30.42 Cleaning of Manholes
33 01 30.43 Removal of Protruding Service Connection
33 01 30.44 Chemical Treatment of Roots in Sewer Lines
33 01 30.61 Packer Injection Grouting
33 01 30.72 Cured-in-place Pipe Lining
33 01 30.73 Cured-in-Place Point Repair
33 01 30.74 Cured-in-Place Lateral Lining
33 01 30.77 Cured-in-Place Lateral Shortliners
33 01 30.79 Fold-and-Form Pipe Lining  
33 01 30.81 Manhole Rehabilitation  
33 01 30.82 Epoxy Lining for Concrete Manholes  
33 01 30.84 Manhole Inserts  
33 01 30.86 Manhole Rim Adjustment  
33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems  
33 01 34.13 Septic Tank Solids Removal  
33 01 34.14 Septic Tank Maintenance  
33 01 34.19 Septic Tank Abandonment  
33 01 34.33 Maintenance of Onsite Sand Filters  
33 01 50 Operation and Maintenance of Hydrocarbon Utilities  
33 01 50.53 Cleaning of Hydrocarbon Conveyance Piping  
33 01 50.56 Cleaning of Hydrocarbon Storage Tanks  
33 01 50.73 Relining of Hydrocarbon Conveyance Piping  
33 01 50.76 Relining of Steel Hydrocarbon Storage Tanks  
33 01 50.81 Hydrocarbon Well Abandonment  
33 01 50.91 Rehabilitation of Hydrocarbon Wells  
33 01 60 Operation and Maintenance of Hydronic and Steam Energy Utilities  
33 01 70 Operation and Maintenance of Electrical Utilities  
33 01 70.51 Electrical Utility Visual Inspection  
33 01 70.52 Electrical Utility Thermographic Surveys  
33 01 70.53 Electrical Utility Insulation Testing  
33 01 70.54 Electrical Utility Insulating Oil/Fluid Analysis  
33 01 80 Operation and Maintenance of Communications Utilities  
33 01 80.51 Communication Utility Visual Inspection  
33 01 80.52 Communication Utility Thermographic Surveys  
33 01 80 00 Common Work Results for Utilities  
33 05 00 Buried Piping Installation  
33 05 05 Installing Bell-and-Spigot Joints  
33 05 05.11 Installing Push-on Joints  
33 05 05.13 Installing Butt-and-Strap Joints  
33 05 05.15 Installing Mechanical Joints  
33 05 05.16 Installing Restrained Joints  
33 05 05.19 Fusing Joints  
33 05 05.31 Hydrostatic Testing  
33 05 05.33 Infiltration and Exfiltration Testing  
33 05 05.36 Vacuum Testing  
33 05 05.41 Air Testing  
33 05 05.43 Mandrel Testing  
33 05 05.46 Lamp Testing  
33 05 07 Trenchless Installation of Utility Piping  
33 05 07.13 Utility Directional Drilling  
33 05 07.23 Utility Boring and Jacking  
33 05 07.24 Casing Piping for Utility Jacking  
33 05 07.33 Tunnelling  
33 05 07.36 Microtunnelling  
33 05 07.43 Utility Impact Moling  
33 05 07.53 Cable Trenching and Plowing  
33 05 09 Piping Specials for Utilities  
33 05 09.13 Couplings for Utility Piping  
33 05 09.23 Adapters for Utility Piping  
33 05 09.33 Thrust Restraint for Utility Piping  
33 05 09.43 Tappling Sleeves and Saddles for Utility Piping  
33 05 11 Aluminum Utility Pipe
33 05 12 Brass Utility Pipe
33 05 16 Cast-Iron Utility Pipe
33 05 17 Copper Utility Pipe and Tubing
33 05 19 Ductile-Iron Utility Pipe
33 05 21 High-Alloy Nickel Utility Pipe and Tubing
33 05 23 Stainless Steel Utility Pipe and Tubing
33 05 23.13 Duplex and Super-Duplex Stainless Steel Utility Pipe
33 05 23.23 300- and 400-Series Stainless Steel Utility Pipe
33 05 23.33 Special-Fabrication Stainless Steel Utility Pipe and Tubing
33 05 24 Steel Utility Pipe
33 05 24.13 Steel Pipe and Tubing for Air and Gas Service
33 05 24.23 Steel Pipe for Water Service
33 05 24.26 Steel Pipe and Tubing for Utility Liquid Service
33 05 24.33 Steel Pipe for Bulk Materials Conveyance
33 05 27 Corrugated Metal Utility Pipe
33 05 27.13 Corrugated Metal Culvert Pipe
33 05 27.23 Corrugated Metal Slotted Pipe
33 05 27.33 Corrugated Metal Culvert Arch Pipe
33 05 31 Thermoplastic Utility Pipe
33 05 31.11 Polyvinyl Chloride Gravity Sewer Pipe
33 05 31.13 Polyvinyl Chloride Pressure Pipe
33 05 31.16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905)
33 05 31.19 Fusible Polyvinyl Chloride Pipe
33 05 31.21 Ribbed Polyvinyl Chloride Gravity Pipe
33 05 31.23 Dual-Wall Polyvinyl Chloride Profile Pipe
33 05 31.26 Polyvinyl Chloride Sleeve Pipe
33 05 31.27 Polyvinyl Chloride Perforated Drainage Pipe
33 05 31.29 Polyvinyl Chloride Electrical Duct
33 05 31.33 ABS Utility Pipe
33 05 33 Polyethylene Utility Pipe
33 05 33.13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe
33 05 33.23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906)
33 05 33.33 Corrugated, Perforated HDPE Drainage Pipe
33 05 33.36 Corrugated, Non-Perforated HDPE Drainage Pipe
33 05 33.53 HDPE Gas Utility Pipe
33 05 33.56 Medium-Density Polyethylene Gas Utility Pipe
33 05 33.63 HDPE Communication Duct
33 05 36 Fiberglass-Reinforced Plastic Utility Pipe
33 05 36.13 Fiberglass-Reinforced Plastic Pipe for Utility Air, Gas, and Odor Service
33 05 36.23 Fiberglass-Reinforced Plastic Pipe for Utility Liquid Service
33 05 36.33 Fiberglass-Reinforced Plastic Pipe for Electrical Service
33 05 37 Centrifugally Cast Fiberglass-Reinforced Polymer Mortar Utility Pipe
33 05 39 Concrete Pipe
33 05 39.11 Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C300)
33 05 39.13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)
33 05 39.16 Reinforced Concrete Pressure Pipe, Non-cylinder Type (AWWA C302)
33 05 39.17 Concrete Pressure Pipe, Bar-Wrapped Steel-Cylinder Type (AWWA C303)
33 05 39.23 Reinforced Concrete Low-Head Pressure Utility Pipe
33 05 39.33 Non-Reinforced Concrete Sewer and Culvert Pipe
33 05 39.36 Non-Reinforced Concrete Irrigation and Drainage Pipe
33 05 39.41 Reinforced Concrete Pipe for Sewers and Culverts
33 05 39.43 Perforated Concrete Utility Pipe
33 05 39.46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts
33 05 39.49 Reinforced Concrete Box Sections for Sewers and Culverts
33 05 39.63 Concrete Pipe Closures
33 05 39.66 Concrete Pipe Thrust Restraints
33 05 39.69 Concrete Pipe Wall Fittings
33 05 41 Vitrified Clay Utility Pipe
33 05 43 Ceramic Drainage Tile
33 05 46 Asbestos Cement Utility Pipe
33 05 61 Concrete Manholes
33 05 63 Concrete Vaults and Chambers
33 05 66 Concrete Distribution Chambers
33 05 69 Concrete Trenchways
33 05 71 Cleanouts
33 05 73 Polyethylene Manholes
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40 90 00 Primary Control Devices

40 91 00 Primary Control Valves
    40 91 13 Electrically-Operated Primary Control Valves
    40 91 16 Hydraulically-Operated Primary Control Valves
    40 91 19 Pneumatically-Operated Primary Control Valves
    40 91 23 Solenoid Primary Control Valves
    40 91 26 Specialty Primary Control Valves

40 92 00 Self-Contained Flow Controllers

40 93 00 Linear Actuators and Positioners

40 94 00 Self-Contained Pressure Regulators

40 95 00 Rotary Actuators

40 96 00 Saturable Core Reactors

40 97 00 Variable Frequency Drives

41 00 00 Material Processing and Handling Equipment

41 01 00 Operation and Maintenance of Material Processing and Handling Equipment
    41 01 52 Operation and Maintenance of Bulk Materials Storage
    41 01 52.13 Storage Bin and Hopper Cleaning
    41 01 52.16 Silo Cleaning

41 05 00 Common Work Results for Material Processing and Handling Equipment
    41 05 05 Selective Demolition for Material Processing and Handling Equipment

41 06 00 Schedules for Material Processing and Handling Equipment
    41 06 10 Schedules for Bulk Material Processing Equipment
    41 06 20 Schedules for Piece Material Handling Equipment
    41 06 30 Schedules for Manufacturing Equipment
    41 06 40 Schedules for Container Processing and Packaging
    41 06 50 Schedules for Material Storage
    41 06 60 Schedules for Mobile Plant Equipment

41 08 00 Commissioning of Material Processing and Handling Equipment
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41 08 10 Commissioning of Bulk Material Processing Equipment
41 08 20 Commissioning of Piece Material Handling Equipment
41 08 30 Commissioning of Manufacturing Equipment
41 08 40 Commissioning of Container Processing and Packaging
41 08 50 Commissioning of Material Storage
41 08 60 Commissioning of Mobile Plant Equipment

41 10 00 Bulk Material Processing Equipment

41 11 00 Bulk Material Sizing Equipment
41 11 13 Bulk Material Agglomerators
41 11 16 Bulk Material Air Mill Classifiers
41 11 19 Bulk Material Centrifuges
41 11 23 Bulk Material Crushers
41 11 26 Bulk Material Cyclones
41 11 29 Bulk Material Fluid Bed Separators
41 11 33 Bulk Material Grinders
41 11 36 Bulk Material Homogenizers
41 11 39 Bulk Material Lump Breakers
41 11 43 Bulk Material Mills
41 11 46 Bulk Material Pulverizers
41 11 49 Bulk Material Screens
41 11 53 Bulk Material Shredders
41 11 56 Bulk Material Sieves

41 12 00 Bulk Material Conveying Equipment
41 12 13 Bulk Material Conveyors
41 12 13.13 Airslide Bulk Material Conveyors
41 12 13.16 Auger Bulk Material Conveyors
41 12 13.19 Belt Bulk Material Conveyors
41 12 13.23 Container Bulk Material Conveyors
41 12 13.26 Drag Chain Bulk Material Conveyors
41 12 13.29 Hopper Bulk Material Conveyors
41 12 13.33 Reciprocating Bulk Material Conveyors
41 12 13.36 Screw Bulk Material Conveyors
41 12 13.39 Stacking and Reclaim Bulk Material Conveyors
41 12 13.43 Trough Bulk Material Conveyors
41 12 13.46 Tube Bulk Material Conveyors
41 12 13.49 Vibratory Bulk Material Conveyors
41 12 13.53 Weigh-Belt Bulk Material Conveyors
41 12 16 Bucket Elevators
41 12 19 Pneumatic Conveyors
41 12 19.13 Dense Phase Pneumatic Conveyors
41 12 19.16 Dilute Phase Pneumatic Conveyors

41 13 00 Bulk Material Feeders
41 13 13 Bin Activators/Live Bin Bottoms
41 13 23 Feeders
41 13 23.13 Airlock Bulk Material Feeders
41 13 23.16 Apron Bulk Material Feeders
41 13 23.19 Rotary-Valve Bulk Material Feeders
41 13 23.23 Screw Bulk Material Feeders
41 13 23.26 Vibratory Bulk Material Feeders
41 13 23.29 Volumetric Bulk Material Feeders
41 13 23.33 Weigh Bulk Material Feeders

41 14 00 Batching Equipment
41 14 13 Bag-Handling Batching Equipment
41 14 16 Batch Cars/Transports
41 14 19 Batch Hoppers
41 14 23 Bulk Bag-Handling Batching Equipment
41 14 26 Blenders
41 14 29 Drum-Handling Batching Equipment
41 14 33 Mixers
41 14 36 Weigh Scales

41 20 00 Piece Material Handling Equipment

41 21 00 Conveyors
41 21 13 Automatic Guided Vehicle Systems
41 21 23 Piece Material Conveyors
41 21 23.13 Belt Piece Material Conveyors
41 21 23.16 Container Piece Material Conveyors
41 21 23.19 Drag-Chain Piece Material Conveyors
41 21 23.23 Hopper Piece Material Conveyors
41 21 23.26 Monorail Piece Material Conveyors
41 21 23.29 Power and Free Piece Material Conveyors
41 21 23.33 Reciprocating Piece Material Conveyors
41 21 23.36 Roller Piece Material Conveyors
41 21 23.39 Vibratory Piece Material Conveyors
41 21 23.43 Walking-Beam Piece Material Conveyors
41 21 23.46 Weigh-Belt Piece Material Conveyors
41 21 23.53 Postal Conveyors
41 21 26 Piece Material Diverter Gates
41 21 29 Piece Material Gravity Slides
41 21 33 Piece Material Transfer Cars
41 21 36 Piece Material Turntables
41 21 39 Piece Material Feeders
41 21 39.13 Piece Material Vibratory Feeders

41 22 00 Cranes and Hoists
41 22 13 Cranes
41 22 13.13 Bridge Cranes
41 22 13.16 Gantry Cranes
41 22 13.19 Jib Cranes
41 22 13.23 Mobile Cranes
41 22 13.26 Tower Cranes
41 22 13.29 Specialty Cranes
41 22 23 Hoists
41 22 23.13 Fixed Hoists
41 22 23.16 Portable Hoists
41 22 23.19 Monorail Hoists
41 22 23.23 Specialty Hoists
41 22 33 Derricks

41 23 00 Lifting Devices
41 23 13 Clamps
41 23 16 Grabs
41 23 19 Hooks
41 23 23 Lifts
41 23 26 Slings
41 23 29 Spreader Bars/Beams
41 23 33 Tongs

41 24 00 **Specialty Material Handling Equipment**
41 24 13 Aeration Devices
41 24 16 Bin Vibrators
41 24 19 Dehydrators
41 24 23 Hydrators
41 24 26 Hydraulic Power Systems
41 24 29 Lubrication Systems
41 24 33 Magnetic Separators
41 24 36 Metal Detectors
41 24 39 Railcar Movers
41 24 43 Turnheads/Distributors
41 24 46 Sorting Machines
41 24 46.13 Postal Sorting Machines

41 30 00 **Manufacturing Equipment**

41 31 00 **Manufacturing Lines and Equipment**
41 31 13 Manufacturing Lines
41 31 13.13 Assembly Lines
41 31 13.16 Casting Lines
41 31 13.19 Coating Lines
41 31 13.23 Converting Lines
41 31 13.26 Disassembly Lines
41 31 13.29 Extrusion Lines
41 31 13.33 Machining Lines
41 31 13.36 Molding Lines
41 31 13.39 Finishing/Painting Lines
41 31 13.43 Painting Lines
41 31 13.46 Pickling Lines
41 31 13.49 Plating Lines
41 31 13.53 Polishing Lines
41 31 13.56 Press Lines
41 31 13.59 Rolling/Calendaring Lines
41 31 13.63 Web Processing Lines
41 31 16 Pick and Place Systems
41 31 19 Manufacturing-Line Robots
41 31 23 Specialty Assembly Machines

41 32 00 **Forming Equipment**
41 32 13 Bending Equipment
41 32 16 Blow-Molding Equipment
41 32 19 Brake-Forming Equipment
41 32 23 Cold-Forming Equipment
41 32 26 Die-Casting Equipment
41 32 29 Drawing Equipment
41 32 33 Electroforming Equipment
41 32 36 Forging Equipment
41 32 39 Extruding Equipment
41 32 43 Metal-Spinning Equipment
41 32 46 Piercing Equipment
41 32 49 Powder Metal-Forming Equipment
41 32 53  Pressing Equipment
41 32 56  Roll-Forming Equipment
41 32 59  Shearing Equipment
41 32 63  Spinning Equipment
41 32 66  Stretching/Leveling Equipment
41 32 69  Swaging Equipment

41 33 00  Machining Equipment
41 33 13  Automatic Screw Machining Equipment
41 33 16  Boring Equipment
41 33 19  Broaching Equipment
41 33 23  Drilling Equipment
41 33 26  Electro-Discharge Machining Equipment
41 33 29  Grinding Equipment
41 33 33  Hobbing Equipment
41 33 36  Lapping Equipment
41 33 39  Lathe Equipment
41 33 43  Leveling Equipment
41 33 46  Machining Center Equipment
41 33 53  Milling Equipment
41 33 53.13  Horizontal Milling Equipment
41 33 53.16  Vertical Milling Equipment
41 33 60  Multi-Axis Machine Equipment
41 33 63  Planing Equipment
41 33 66  Reaming Equipment
41 33 69  Routing Equipment
41 33 73  Sawing Equipment
41 33 76  Shaping Equipment
41 33 79  Threading Equipment

41 34 00  Finishing Equipment
41 34 13  Anodizing Equipment
41 34 16  Barrel Tumbling Equipment
41 34 23  Coating Equipment
41 34 23.13  Diffusion Coating Equipment
41 34 23.16  Dipping Coating Equipment
41 34 23.19  Film Coating Equipment
41 34 23.23  Phosphatizing Coating Equipment
41 34 23.26  Plasma Coating Equipment
41 34 23.29  Hardface Welding Coating Equipment
41 34 23.33  Spray Painting Booth
41 34 26  Deburring Equipment
41 34 36  Electroplating Equipment
41 34 46  Grinding Equipment
41 34 49  Honing Equipment
41 34 53  Lapping Equipment
41 34 56  Shot Peening Equipment
41 34 59  Superfinishing/Polishing Equipment

41 35 00  Dies and Molds
41 35 13  Dies
41 35 13.13  Drawing Dies
41 35 13.16  Extrusion Dies
41 35 13.19  Press Dies
41 35 13.23 Rotary Dies
41 35 13.26 Rule Dies
41 35 33 Molds

41 36 00 Assembly and Testing Equipment
41 36 13 Applicators
41 36 13.13 Adhesive Applicators
41 36 13.16 Lubricant Applicators
41 36 13.19 Sealer Applicators
41 36 16 Fixtures and Jigs
41 36 19 Joining Equipment
41 36 19.13 Adhesive Joining Equipment
41 36 19.16 Arc-Welding Equipment
41 36 19.19 Brazing Equipment
41 36 19.23 Resistance-Welding Equipment
41 36 19.26 Riveting Equipment
41 36 19.29 Sintering Equipment
41 36 19.33 Soldering Equipment
41 36 23 Cutting Equipment
41 36 23.13 Cutting Torches
41 36 23.16 High-Pressure Water Cutting Equipment
41 36 23.19 Laser Cutting Equipment
41 36 23.23 Plasma Cutting Equipment
41 36 26 Process Tools
41 36 26.13 Air Process Tools
41 36 26.16 Electric Process Tools
41 36 26.19 Hydraulic Process Tools
41 36 26.23 Manual Process Tools
41 36 29 Manufacturing Measurement and Testing Equipment
41 36 29.13 Gages, Rules, and Blocks
41 36 29.16 Penetrant Measurement and Testing Equipment
41 36 29.19 Laser Measurement and Testing Equipment
41 36 29.23 Magnaflux Measurement and Testing Equipment
41 36 29.26 Optical Comparators
41 36 29.29 Profilometers
41 36 29.33 Radiograph Measurement and Testing Equipment
41 36 29.36 Surface Tables
41 36 29.39 Ultrasonic Measurement and Testing Equipment
41 36 29.43 Test Weigh Scales

41 40 00 Container Processing and Packaging

41 41 00 Container Filling and Sealing
41 41 13 Bulk Container Fillers/Packers
41 41 16 Container Cappers
41 41 19 Container Fillers
41 41 19.13 Bag Fillers
41 41 19.16 Box Fillers
41 41 19.19 Bottle Fillers
41 41 23 Container Sealers

41 42 00 Container Packing Equipment
41 42 13 Box Packing Equipment
41 42 13.13 Box Makers
41 42 13.16 Box Packers
41 42 16 Bulk Material Loaders
41 42 16.13 Container Bulk Material Loaders
41 42 16.23 Truck Bulk Material Loaders
41 42 16.26 Railcar Bulk Material Loaders
41 42 16.29 Ship Bulk Material Loaders
41 42 16.33 Barge Bulk Material Loaders
41 42 19 Carton Packers
41 42 23 Carton Sealers
41 42 26 Carton Shrink Wrappers
41 42 29 Carton Stackers

41 43 00 Shipping Packaging
41 43 13 Banding/Strapping Equipment
41 43 16 Barcode Equipment
41 43 16.13 Barcode Readers
41 43 16.16 Barcode Printers
41 43 19 Labeling Equipment
41 43 23 Pallet Stacking/Wrapping Equipment

41 50 00 Material Storage
41 51 00 Automatic Material Storage
41 51 13 Automatic Storage/Automatic Retrieval Systems

41 52 00 Bulk Material Storage
41 52 16.13 Concrete Flat-Bottom Silos
41 52 16.16 Concrete Masonry Flat-Bottom Silos
41 52 16.23 Concrete Cone-Bottom Silos
41 52 16.26 Concrete Masonry Cone-Bottom Silos
41 52 16.29 Steel Cone-Bottom Silos
41 52 19 Bulk Materials Storage Tanks
41 52 19.13 Stationary Bulk Materials Storage Tanks
41 52 19.33 Mobile Bulk Materials Storage Tanks
41 52 41 Pneumatic, Block-Distributed Materials Fluidizing System for Flat-Bottom Bins and Silos
41 52 43 Aerated Trough Materials Fluidizing System for Flat-Bottom Bins and Silos
41 52 46 Pad-Mounted Aerated Disc Materials Fluidizing System for Cone-Bottom Bins and Silos

41 53 00 Storage Equipment and Systems
41 53 13 Storage Cabinets
41 53 16 Container Storage Systems
41 53 19 Flat Files
41 53 23 Storage Racks
41 53 23.13 Mobile Storage Racks
41 53 26 Mezzanine Storage Systems

41 60 00 Mobile Plant Equipment
41 61 00 Mobile Earth Moving Equipment
41 61 13 Backhoes
41 61 16 Bulldozers
41 61 19 Compactors
41 61 23 Excavators
41 61 26 Graders
41 61 29 Payloaders
41 61 33 Trenchers

41 62 00 Trucks
41 62 13  Cement Mixer Trucks
41 62 16  Dump Trucks
41 62 19  Flatbed Trucks
41 62 23  Forklift Trucks
41 62 26  Pickup Trucks
41 62 29  Tank Trucks
41 63 00  General Vehicles
  41 63 13  Bicycles
  41 63 16  Carts
  41 63 19  Maintenance Vehicles
  41 63 23  Utility Vehicles
  41 63 26  Vans
  41 63 29  Wagons
41 64 00  Rail Vehicles
  41 64 13  Locomotives
  41 64 13.13 Diesel Locomotives
  41 64 13.23 Electric Locomotives
  41 64 16  Mobile Railcar Movers
41 65 00  Mobile Support Equipment
  41 65 13  Mobile Air Compressors
  41 65 16  Mobile Generators
  41 65 19  Mobile Welders
41 66 00  Miscellaneous Mobile Equipment
  41 66 13  Mobile Boring and Drilling Rigs
  41 66 16  Mobile Lifts and Cherrypickers
  41 66 19  Mobile Paving Equipment
  41 66 23  Mobile Sweepers/Vacuums
41 67 00  Plant Maintenance Equipment
  41 67 13  Plant Lube Oil System
  41 67 16  Plant Fall Protection Equipment
  41 67 19  Plant Safety Equipment
  41 67 23  Plant Maintenance Tools
  41 67 26  Plant Maintenance Washing Equipment
42 00 00  Process Heating, Cooling, and Drying Equipment
42 01 00  Operation and Maintenance of Process Heating, Cooling, and Drying Equipment
  42 01 10  Operation and Maintenance of Process Heating Equipment
  42 01 20  Operation and Maintenance of Process Cooling Equipment
  42 01 30  Operation and Maintenance of Process Drying Equipment
42 05 00  Common Work Results for Process Heating, Cooling, and Drying Equipment
  42 05 05  Selective Demolition for Process Heating, Cooling, and Drying Equipment
42 06 00  Schedules for Process Heating, Cooling, and Drying Equipment
  42 06 10  Schedules for Process Heating Equipment
42 06 20  Schedules for Process Cooling Equipment
42 06 30  Schedules for Process Drying Equipment

**42 08 00  Commissioning of Process Heating, Cooling, and Drying Equipment**
42 08 10  Commissioning of Heating Equipment
42 08 20  Commissioning of Cooling Equipment
42 08 30  Commissioning of Drying Equipment

**42 10 00  Process Heating Equipment**

**42 11 00  Process Boilers**
42 11 13  Low-Pressure Process Boilers
42 11 16  Intermediate-Pressure Process Boilers
42 11 19  High-Pressure Process Boilers
42 11 23  Specialty Process Boilers

**42 12 00  Process Heaters**
42 12 13  Electric Process Heaters
42 12 16  Fuel-Fired Process Heaters
42 12 19  Thermoelectric Process Heaters
42 12 23  Solar Process Heaters
42 12 26  Specialty Process Heaters

**42 13 00  Industrial Heat Exchangers and Recuperators**
42 13 13  Industrial Gas-to-Gas Heat Exchangers
42 13 16  Industrial Liquid-to-Gas/Gas-to-Liquid Heat Exchangers
42 13 19  Industrial Liquid-to-Liquid Heat Exchangers
42 13 23  Industrial Gas Radiation Heat Exchangers
42 13 26  Industrial Solar Radiation Heat Exchangers

**42 14 00  Industrial Furnaces**
42 14 13  Annealing Furnaces
42 14 16  Atmosphere Generators
42 14 19  Industrial Baking Furnaces
42 14 23  Industrial Brazing Furnaces
42 14 26  Industrial Calcining Furnaces
42 14 29  Industrial Heat-Treating Furnaces
42 14 33  Industrial Melting Furnaces
42 14 33.13 Ceramics and Glass Melting Furnaces
42 14 33.16  Ferrous Melting Furnaces
42 14 33.19  Non-Ferrous Melting Furnaces
42 14 36  Primary Refining Furnaces
42 14 43  Reactor Furnaces
42 14 46  Industrial Reheat Furnaces
42 14 53  Industrial Sintering Furnaces
42 14 56  Industrial Vacuum Furnaces

**42 15 00  Industrial Ovens**
42 15 13  Industrial Drying Ovens
42 15 16  Industrial Curing Ovens
42 15 19  Industrial Specialty Ovens

**42 20 00  Process Cooling Equipment**

**42 21 00  Process Cooling Towers**
42 21 13  Open-Circuit Process Cooling Towers
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<td>42 22 00</td>
<td><strong>Process Chillers and Coolers</strong></td>
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<td>42 22 13</td>
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43 05 30  Common Work Results for Gas and Liquid Hi-Purification Equipment
43 05 40  Common Work Results for Gas and Liquid Storage

43 06 00  Schedules for Process Gas and Liquid Handling, Purification, and Storage Equipment
43 06 10  Schedules for Gas Handling Equipment
43 06 20  Schedules for Liquid Handling Equipment
43 06 30  Schedules for Gas and Liquid Hi-Purification Equipment
43 06 40  Schedules for Gas and Liquid Storage

43 08 00  Commissioning of Process Gas and Liquid Handling, Purification, and Storage Equipment
43 08 10  Commissioning of Gas Handling Equipment
43 08 20  Commissioning of Liquid Handling Equipment
43 08 30  Commissioning of Gas and Liquid Purification Equipment
43 08 40  Commissioning of Gas and Liquid Storage

43 10 00  Gas Handling Equipment
43 11 00  Gas Fans, Blowers, Pumps and Boosters
43 11 11  Direct Drive Single Stage Centrifugal Blowers
43 11 12  Integrally Geared Single Stage Centrifugal Blowers
43 11 13  Separately Geared Single Stage Centrifugal Blowers
43 11 14  Direct Drive Integral Shaft Single Stage Centrifugal Blowers
43 11 17  Horizontally Split Multistage Centrifugal Blowers
43 11 18  Vertically Split Multistage Centrifugal Blowers
43 11 19  Centrifugal Fans
43 11 23  Axial Blowers
43 11 26  Axial Fans
43 11 31  Rotary Helical Screw Blowers
43 11 33  Rotary Lobe Blowers
43 11 34  Regenerative Rotary Blowers
43 11 36  Rotary Vane Blowers
43 11 41  Gas-handling Venturi Jet Pumps
43 11 43  Gas-handling Vacuum Pumps
43 11 46  Gas Boosters

43 12 00  Gas Compressors
43 12 11  Centrifugal Compressors
43 12 13  Diagonal or Mixed-flow Compressors
43 12 16  Axial-flow Compressors
43 12 33  Single-acting Reciprocating Compressors
43 12 34  Double-acting Reciprocating Compressors
43 12 37  Diaphragm Reciprocating Compressors
43 12 51  Rotary Screw Compressors
43 12 53  Rotary Vane Compressors
43 12 56  Rotary Liquid-ring Compressors
43 12 57  Rotary Scroll Compressors

43 13 00  Gas Process Equipment
43 13 13  Gas Blenders
43 13 19  Gas Mixers
43 13 23  Gas Pressure Regulators
43 13 31 Gas Separation Equipment
43 13 33 Gas Dehydration Equipment
43 13 36 Combined Gas Separation and Dehydration Equipment
43 13 39 Gas Recovery and Condensing Equipment
43 13 43 Waste Gas Burner System
43 13 46 Gas Control and Safety Equipment

43 15 00 Process Air and Gas Filters
43 15 13 Blower Intake and Turbine Air Filters
43 15 13.13 Static Prefilters
43 15 13.16 Static Final Filters
43 15 13.19 Static HEPA Filters
43 15 13.23 Pulse Filters
43 15 33 Grease Filters
43 15 43 Mist Eliminators
43 15 63 High-temperature Air Filters
43 15 73 Multiple-application Air Filters
43 15 73.11 Air Filter Media
43 15 73.12 Permanent Washable Filters
43 15 73.13 Poly-ring Air Filters
43 15 73.15 Rigid Cell Filters
43 15 73.17 Automatic Roll-type Air Filters
43 15 76 Chemical Media for Air and Gas Filters

43 20 00 Liquid Handling Equipment

43 22 00 Liquid Process Equipment
43 22 13 Liquid Aeration Devices
43 22 16 Liquid Agitators
43 22 19 Liquid Blenders
43 22 23 Liquid Centrifuges
43 22 26 Liquid Deaerators
43 22 29 Drum Handling Liquid Process Equipment
43 22 33 Liquid Emulsifiers
43 22 36 Liquid Evaporators
43 22 39 Liquid Feeders
43 22 56 Liquid Process Mixers
43 22 59 Liquid Process Pressure Regulators
43 22 63 Liquid Separation Towers
43 22 66 Liquid Weigh Systems
43 22 69 Liquid Grease Receiving and Dewatering Systems
43 22 73 Liquid Fillers
43 22 76 Liquid Screeners
43 22 79 Liquid Clarifiers
43 22 83 Liquid Classifiers
43 22 86 Liquid Homogenizers
43 22 89 Liquid Presses
43 22 96 Liquid Versators
43 22 99 Liquid Votators

43 23 00 Dry Location Liquid Pumps
43 23 13 Overhung Horizontal Centrifugal Pumps
43 23 13.13 Overhung Flexibly-coupled Horizontal Axial Flow Centrifugal Pumps
43 23 13.14 Overhung Flexibly-coupled Horizontal Frame-mounted Centrifugal Pumps
43 23 13.17 Overhung Flexibly-coupled Horizontal Foot-mounted Centrifugal Pumps
43 23 13.19 Overhung Flexibly-coupled Horizontal Foot-mounted Self-priming Centrifugal Pumps
43 23 13.21 Overhung Flexibly-coupled, Magnetic Drive, Sealless Horizontal Centrifugal Pumps
43 23 13.24 Overhung Close-coupled High-speed Integral Gear Centrifugal Pumps
43 23 13.27 Overhung Close-coupled Horizontal Centrifugal Pumps
43 23 13.29 Overhung Close-coupled Sealless with Canned Motor Horizontal Centrifugal Pumps
43 23 21 Between-Bearings Impeller Centrifugal Pumps
43 23 21.13 Between-bearings Impeller, One- and Two-stage Axially-split Centrifugal Pumps
43 23 21.14 Between-bearings Impeller, One- and Two-stage, Radially-split Centrifugal Pumps
43 23 21.17 Between-bearings Impeller, Multiple-stage, Axially-split Centrifugal Pumps
43 23 21.19 Between-bearings Impeller, Multiple-stage, Radially-split Centrifugal Pumps
43 23 21.21 Between-bearings Impeller, Multiple-stage, Radially-split, Single Casing Centrifugal Pumps
43 23 21.23 Between-bearings Impeller, Multiple-stage, Radially-split, Double Casing Centrifugal Pumps
43 23 31 Vertical Centrifugal Pumps
43 23 31.13 Overhung Flexibly-coupled Vertical Centrifugal Pumps
43 23 31.14 Overhung Flexibly-coupled Vertical Inline Centrifugal Pumps
43 23 31.17 Overhung Flexibly-coupled Vertical End-suction Centrifugal Pumps
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43 24 13 Vertically Suspended Single-Casing Discharge-through-column Centrifugal Pumps
43 24 13.13 Vertically Suspended Single-Casing Discharge-through-column Diffuser Centrifugal Pumps
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43 31 00 Gas and Liquid Purification Filtration Equipment
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43 32 39.13  Externally Regenerable Gas and Liquid Purification Mixed Beds
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43 32 53  Packed-Bed Ion-Exchange Vessels
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43 32 66  Vacuum Degasifiers
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43 32 76  Chlorination Equipment

43 40 00  Gas and Liquid Storage

43 41 00  Non-pressurized Tanks and Vessels
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43 41 13  Welded Steel Tanks
43 41 13.13  Glass-lined Welded Steel Tanks
43 41 13.23  Rubber-lined Welded Steel Tanks
43 41 13.33  Epoxy-lined Welded Steel Tanks
43 41 13.43  Ceramic-lined Welded Steel Tanks
43 41 23  Stainless Steel Tanks
43 41 26  Aluminum Tanks
43 41 31  Metallic Specialty Tanks
43 41 41  Polyvinyl Chloride Tanks
43 41 43  Polyethylene Tanks
43 41 45  Fiberglass Reinforced Plastic Tanks
43 41 53  Wood Stave Tanks
43 41 63  Precast Concrete Tanks
43 41 73  Ceramic Tanks
43 41 83  Non-metallic Specialty Tanks

43 42 00  Pressurized Tanks and Vessels
43 42 11  Cast Iron Pressure Tanks
43 42 13  Ductile Iron Pressure Tanks
43 42 21  Welded Steel Pressure Tanks
43 42 23  Glass-lined Steel Pressure Tanks
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43 42 36  Aluminum Pressure Tanks
43 42 41  Metallic Specialty Pressure Tanks
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44 01 00  Operation and Maintenance of Pollution and Waste Control Equipment
44 01 10  Operation and Maintenance of Air Pollution Control
44 01 20  Operation and Maintenance of Noise Pollution Control
44 01 30  Operation and Maintenance of Odor Control Equipment
44 01 40  Operation and Maintenance of Water Pollution Control Equipment
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44 10 00 Air Pollution Control

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44 11 20 Gravitational Separators
44 11 31 Venturi Scrubbing Equipment
44 11 33 Spray Tower/Chamber Scrubbing Equipment
44 11 36 Cyclone Scrubbing Equipment
44 11 51 Pulse Jet Fabric Filtration Equipment
44 11 53 Reverse Flow Fabric Filtration Equipment
44 11 54 Shake/Deflate Fabric Filtration Equipment
44 11 56 Cartridge Filtration Equipment
44 11 59 Disposable Dry Filtration Equipment
44 11 71 Cyclone Dust Collection Equipment
44 11 73 Multicyclone Dust Collection Equipment
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44 13 00 Gaseous Air Pollution Control Equipment

44 13 11 Spray Tower/Chamber Absorption Equipment
44 13 13 Packed Tower/Chamber Absorption Equipment
44 13 14 Tray Tower Absorption Equipment
44 13 16 Jet Bubbling Reactor Equipment
44 13 17 Venturi Absorption Equipment
44 13 20 Vacuum Extraction Systems
44 13 31 Powdered Injection Adsorption Equipment
44 13 33 Fluidized Bed Adsorption Equipment
44 13 34  Fixed Bed Adsorption Equipment
44 13 36  Rotary Bed Adsorption Equipment
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44 53 41 Vibratory Table Separation Equipment
44 53 43 Ferrous Metals Separation Equipment
44 53 44 Eddy Current Separators
44 53 46 Single-stream Materials Separation Equipment
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44 55 13 Compost Screening Equipment
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