

00 00 00 PROCUREMENT AND CONTRACTING REQUIREMENTS**00 10 00 SOLICITATION**

00 11 00 Advertisements and Invitations

00 20 00 INSTRUCTIONS FOR PROCUREMENT

00 21 00 Instructions

00 22 00 Supplementary Instructions

00 23 00 Procurement Definitions

00 24 00 Procurement Scopes

00 25 00 Procurement Meetings

00 26 00 Procurement Substitution Procedures

00 30 00 AVAILABLE INFORMATION

00 31 00 Available Project Information

00 40 00 PROCUREMENT FORMS AND SUPPLEMENTS

00 41 00 Bid Forms

00 42 00 Proposal Forms

00 43 00 Procurement Form Supplements

00 45 00 Representations and Certifications

00 51 00 Notice of Award

00 52 00 Agreement Forms

00 54 00 Agreement Form Supplements

00 55 00 Notice to Proceed

00 60 00 PROJECT FORMS

00 61 00 Bond Forms

00 62 00 Certificates and Other Forms

00 63 00 Clarification and Modification Forms

00 65 00 Closeout Forms

00 70 00 CONDITIONS OF THE CONTRACT

00 71 00 Contracting Definitions

00 72 00 General Conditions

00 73 00 Supplementary Conditions

00 90 00 REVISIONS, CLARIFICATIONS, AND MODIFICATIONS

00 91 00 Precontract Revisions

00 93 00 Record Clarifications and Proposals

00 94 00 Record Modifications

01 00 00 GENERAL REQUIREMENTS**01 10 00 SUMMARY**

01 11 00 Summary of Work

01 12 00 Multiple Contract Summary

01 14 00 Work Restrictions

01 18 00 Project Utility Sources

01 20 00 PRICE AND PAYMENT PROCEDURES

01 21 00 Allowances

01 22 00 Unit Prices

01 23 00 Alternates

01 24 00 Value Analysis

01 25 00 Substitution Procedures

01 26 00 Contract Modification Procedures

01 29 00 Payment Procedures

01 30 00 ADMINISTRATIVE REQUIREMENTS

01 31 00 Project Management and Coordination

01 32 00 Construction Progress Documentation

01 33 00 Submittal Procedures

01 35 00 Special Procedures

01 40 00 QUALITY REQUIREMENTS

01 41 00 Regulatory Requirements

01 42 00 References

01 43 00 Quality Assurance

01 45 00 Quality Control

01 50 00 TEMPORARY FACILITIES AND CONTROLS

- 01 51 00 Temporary Utilities
- 01 52 00 Construction Facilities
- 01 53 00 Temporary Construction
- 01 54 00 Construction Aids
- 01 55 00 Vehicular Access and Parking
- 01 56 00 Temporary Barriers and Enclosures
- 01 57 00 Temporary Controls
- 01 58 00 Project Identification

01 60 00 PRODUCT REQUIREMENTS

- 01 61 00 Common Product Requirements
- 01 62 00 Product Options
- 01 64 00 Owner-Furnished Products
- 01 65 00 Product Delivery Requirements
- 01 66 00 Product Storage and Handling Requirements

01 70 00 EXECUTION AND CLOSEOUT REQUIREMENTS

- 01 71 00 Examination and Preparation
- 01 73 00 Execution
- 01 74 00 Cleaning and Waste Management
- 01 75 00 Starting and Adjusting
- 01 76 00 Protecting Installed Construction
- 01 77 00 Closeout Procedures
- 01 78 00 Closeout Submittals
- 01 79 00 Demonstration and Training

01 80 00 PERFORMANCE REQUIREMENTS

- 01 81 00 Facility Performance Requirements
- 01 82 00 Facility Substructure Performance Requirements
- 01 83 00 Facility Shell Performance Requirements
- 01 84 00 Interiors Performance Requirements
- 01 85 00 Conveying Equipment Performance Requirements
- 01 86 00 Facility Services Performance Requirements
- 01 87 00 Equipment and Furnishings Performance Requirements
- 01 88 00 Other Facility Construction Performance Requirements
- 01 89 00 Site Construction Performance Requirements

01 90 00 LIFE CYCLE ACTIVITIES

- 01 91 00 Commissioning
- 01 92 00 Facility Operation
- 01 93 00 Facility Maintenance
- 01 94 00 Facility Decommissioning

02 00 00 EXISTING CONDITIONS

- 02 01 00 Maintenance of Existing Conditions
- 02 03 00 Conservation Treatment for Existing Period Conditions
- 02 05 00 Common Work Results for Existing Conditions
- 02 06 00 Schedules for Existing Conditions
- 02 08 00 Commissioning of Existing Conditions

02 20 00 ASSESSMENT

- 02 21 00 Surveys
- 02 22 00 Existing Conditions Assessment
- 02 24 00 Environmental Assessment
- 02 25 00 Existing Material Assessment
- 02 26 00 Hazardous Material Assessment

02 30 00 SUBSURFACE INVESTIGATION

- 02 31 00 Geophysical Investigations
- 02 32 00 Geotechnical Investigations

02 40 00 DEMOLITION AND STRUCTURE MOVING

- 02 41 00 Demolition
- 02 42 00 Removal and Salvage of Construction Materials
- 02 43 00 Structure Moving

02 50 00 SITE REMEDIATION

02 51 00 Physical Decontamination
02 52 00 Chemical Decontamination
02 53 00 Thermal Decontamination
02 54 00 Biological Decontamination
02 55 00 Remediation Soil Stabilization
02 56 00 Site Containment
02 57 00 Sinkhole Remediation
02 58 00 Snow Control

02 60 00 CONTAMINATED SITE MATERIAL REMOVAL

02 61 00 Removal and Disposal of Contaminated Soils
02 62 00 Hazardous Waste Recovery Processes
02 65 00 Underground Storage Tank Removal

02 70 00 WATER REMEDIATION

02 71 00 Groundwater Treatment
02 72 00 Water Decontamination

02 80 00 FACILITY REMEDIATION

02 81 00 Transportation and Disposal of Hazardous Materials
02 82 00 Asbestos Remediation
02 83 00 Lead Remediation
02 84 00 Polychlorinate Biphenyl Remediation
02 86 00 Hazardous Waste Drum Handling
02 87 00 Biohazard Remediation

03 00 00 CONCRETE

03 01 00 Maintenance of Concrete
03 03 00 Conservation Treatment for Period Concrete
03 05 00 Common Work Results for Concrete
03 06 00 Schedules for Concrete
03 08 00 Commissioning of Concrete

03 10 00 CONCRETE FORMING AND ACCESSORIES

03 11 00 Concrete Forming
03 15 00 Concrete Accessories

03 20 00 CONCRETE REINFORCING

03 21 00 Reinforcement Bars
03 22 00 Fabric and Grid Reinforcing
03 23 00 Stressed Tendon Reinforcing
03 24 00 Fibrous Reinforcing
03 25 00 Composite Reinforcing

03 30 00 CAST-IN-PLACE CONCRETE

03 31 00 Structural Concrete
03 33 00 Architectural Concrete
03 34 00 Low Density Concrete
03 35 00 Concrete Finishing
03 37 00 Specialty Placed Concrete
03 38 00 Post-Tensioned Concrete
03 39 00 Concrete Curing

03 40 00 PRECAST CONCRETE

03 41 00 Precast Structural Concrete
03 45 00 Precast Architectural Concrete
03 47 00 Site-Cast Concrete
03 48 00 Precast Concrete Specialties
03 49 00 Glass-Fiber-Reinforced Concrete

03 50 00 CAST DECKS AND UNDERLAYMENT

03 51 00 Cast Roof Decks
03 52 00 Lightweight Concrete Roof Insulation
03 53 00 Concrete Topping
03 54 00 Cast Underlayment

03 60 00 GROUTING

03 61 00 Cementitious Grouting
03 62 00 Non-Shrink Grouting

03 63 00 Epoxy Grouting

03 64 00 Injection Grouting

03 70 00 MASS CONCRETE

03 71 00 Mass Concrete for Raft Foundations

03 72 00 Mass Concrete for Dams

03 80 00 CONCRETE CUTTING AND BORING

03 81 00 Concrete Cutting

03 82 00 Concrete Boring

04 00 00 MASONRY

04 01 00 Maintenance of Masonry

04 03 00 Conservation Treatment for Period Masonry

04 05 00 Common Work Results for Masonry

04 06 00 Schedules for Masonry

04 08 00 Commissioning of Masonry

04 20 00 UNIT MASONRY

04 21 00 Clay Unit Masonry

04 22 00 Concrete Unit Masonry

04 23 00 Glass Unit Masonry

04 24 00 Adobe Unit Masonry

04 25 00 Unit Masonry Panels

04 26 00 Single-Wythe Unit Masonry

04 27 00 Multiple-Wythe Unit Masonry

04 28 00 Concrete Form Masonry Units

04 29 00 Engineered Unit Masonry

04 40 00 STONE ASSEMBLIES

04 41 00 Dry-Placed Stone

04 42 00 Exterior Stone Cladding

04 43 00 Stone Masonry

04 50 00 REFRACTORY MASONRY

04 51 00 Flue Liner Masonry

04 52 00 Combustion Chamber Masonry

04 53 00 Castable Refractory Masonry

04 54 00 Refractory Brick Masonry

04 57 00 Masonry Fireplaces

04 60 00 CORROSION-RESISTANT MASONRY

04 61 00 Chemical-Resistant Brick Masonry

04 62 00 Vitrified Clay Liner Plate

04 70 00 MANUFACTURED MASONRY

04 71 00 Manufactured Brick Masonry

04 72 00 Cast Stone Masonry

04 73 00 Manufactured Stone Masonry

05 00 00 METALS

05 01 00 Maintenance of Metals

05 03 00 Conservation Treatment for Period Metals

05 05 00 Common Work Results for Metals

05 06 00 Schedules for Metals

05 08 00 Commissioning of Metals

05 10 00 STRUCTURAL METAL FRAMING

05 12 00 Structural Steel Framing

05 13 00 Structural Stainless-Steel Framing

05 14 00 Structural Aluminum Framing

05 14 13 Architecturally-Exposed Structural Aluminum Framing

05 15 00 Wire Rope Assemblies

05 16 00 Structural Cabling

05 17 00 Structural Rod Assemblies

05 19 00 Tension Rod and Cable Truss Assemblies

05 20 00 METAL JOISTS

05 21 00 Steel Joist Framing

05 25 00 Aluminum Joist Framing

05 30 00 METAL DECKING

05 31 00 Steel Decking

05 33 00 Aluminum Decking

05 34 00 Acoustical Metal Decking

05 35 00 Raceway Decking Assemblies

05 36 00 Composite Metal Decking

05 40 00 COLD-FORMED METAL FRAMING

05 41 00 Structural Metal Stud Framing

05 42 00 Cold-Formed Metal Joist Framing

05 43 00 Slotted Channel Framing

05 44 00 Cold-Formed Metal Trusses

05 45 00 Metal Support Assemblies

05 50 00 METAL FABRICATIONS

05 51 00 Metal Stairs

05 52 00 Metal Railings

05 53 00 Metal Gratings

05 54 00 Metal Floor Plates

05 55 00 Metal Stair Treads and Nosings

05 56 00 Metal Castings

05 58 00 Formed Metal Fabrications

05 59 00 Metal Specialties

05 70 00 DECORATIVE METAL

05 71 00 Decorative Metal Stairs

05 73 00 Decorative Metal Railings

05 74 00 Decorative Metal Castings

05 75 00 Decorative Formed Metal

05 76 00 Decorative Forged Metal

05 77 00 Decorative Extruded Metal

06 00 00 WOOD, PLASTICS, AND COMPOSITES

06 01 00 Maintenance of Wood, Plastics, and Composites

06 03 00 Conservation Treatment for Period Wood

06 05 00 Common Work Results for Wood, Plastics, and Composites

06 06 00 Schedules for Wood, Plastics, and Composites

06 08 00 Commissioning of Wood, Plastics, and Composites

06 10 00 ROUGH CARPENTRY

06 11 00 Wood Framing

06 12 00 Structural Panels

06 13 00 Heavy Timber Construction

06 14 00 Treated Wood Foundations

06 15 00 Wood Decking

06 16 00 Sheathing

06 17 00 Shop-Fabricated Structural Wood

06 18 00 Glued-Laminated Construction

06 20 00 FINISH CARPENTRY

06 22 00 Millwork

06 25 00 Prefinished Paneling

06 26 00 Board Paneling

06 40 00 ARCHITECTURAL WOODWORK

06 41 00 Architectural Wood Casework

06 42 00 Wood Paneling

06 43 00 Wood Stairs and Railings

06 44 00 Ornamental Woodwork

06 46 00 Wood Trim

06 48 00 Wood Frames

06 49 00 Wood Screens and Shutters

06 50 00 STRUCTURAL PLASTICS

06 51 00 Structural Plastic Shapes and Plates

06 52 00 Plastic Structural Assemblies

06 53 00 Plastic Decking

06 60 00 PLASTIC FABRICATIONS

06 61 00 Cast Polymer Fabrications

06 63 00 Plastic Railings

06 64 00 Plastic Paneling

06 65 00 Plastic Trim

06 66 00 Custom Ornamental Simulated Woodwork

06 70 00 STRUCTURAL COMPOSITES

06 71 00 Structural Composite Shapes and Plates

06 72 00 Composite Structural Assemblies

06 73 00 Composite Decking

06 74 00 Composite Gratings

06 80 00 COMPOSITE FABRICATIONS

06 81 00 Composite Railings

06 82 00 Composite Trim

06 83 00 Composite Paneling

07 00 00 THERMAL AND MOISTURE PROTECTION

07 01 00 Operation and Maintenance of Thermal and Moisture Protection

07 03 00 Conservation Treatment for Period Roofing

07 05 00 Common Work Results for Thermal and Moisture Protection

07 06 00 Schedules for Thermal and Moisture Protection

07 08 00 Commissioning of Thermal and Moisture Protection

07 10 00 DAMPPROOFING AND WATERPROOFING

07 11 00 Dampproofing

07 12 00 Built-Up Bituminous Waterproofing

07 13 00 Sheet Waterproofing

07 14 00 Fluid-Applied Waterproofing

07 15 00 Sheet Metal Waterproofing

07 16 00 Cementitious and Reactive Waterproofing

07 17 00 Bentonite Waterproofing

07 18 00 Traffic Coatings

07 19 00 Water Repellents

07 20 00 THERMAL PROTECTION

07 21 00 Thermal Insulation

07 22 00 Roof and Deck Insulation

07 24 00 Exterior Insulation and Finish Systems

07 25 00 WEATHER BARRIERS

07 26 00 Vapor Retarders

07 27 00 Air Barriers

07 30 00 STEEP SLOPE ROOFING

07 31 00 Shingles and Shakes

07 32 00 Roof Tiles

07 33 00 Natural Roof Coverings

07 40 00 ROOFING AND SIDING PANELS

07 41 00 Roof Panels

07 42 00 Wall Panels

07 44 00 Faced Panels

07 46 00 Siding

07 50 00 MEMBRANE ROOFING

07 51 00 Built-Up Bituminous Roofing

07 52 00 Modified Bituminous Membrane Roofing

07 53 00 Elastomeric Membrane Roofing

07 54 00 Thermoplastic Membrane Roofing

07 55 00 Protected Membrane Roofing

07 56 00 Fluid-Applied Roofing

07 57 00 Coated Foamed Roofing

07 58 00 Roll Roofing

07 60 00 FLASHING AND SHEET METAL

07 61 00 Sheet Metal Roofing

07 62 00 Sheet Metal Flashing and Trim
07 63 00 Sheet Metal Roofing Specialties
07 64 00 Sheet Metal Wall Cladding
07 65 00 Flexible Flashing

07 70 00 ROOF AND WALL SPECIALTIES AND ACCESSORIES

07 71 00 Roof Specialties
07 72 00 Roof Accessories
07 76 00 Roof Pavers
07 77 00 Wall Specialties

07 80 00 FIRE AND SMOKE PROTECTION

07 81 00 Applied Fireproofing
07 82 00 Board Fireproofing
07 84 00 Firestopping
07 86 00 Smoke Seals
07 87 00 Smoke Containment Barriers

07 90 00 JOINT PROTECTION

07 91 00 Preformed Joint Seals
07 92 00 Joint Sealants
07 95 00 Expansion Control

08 00 00 OPENINGS

08 01 00 Operation and Maintenance of Openings
08 03 00 Conservation Treatment for Period Openings
08 05 00 Common Work Results for Openings
08 06 00 Schedules for Openings
08 08 00 Commissioning of Openings

08 10 00 DOORS AND FRAMES

08 11 00 Metal Doors and Frames
08 12 00 Metal Frames
08 13 00 Metal Doors
08 14 00 Wood Doors
08 15 00 Plastic Doors
08 16 00 Composite Doors
08 17 00 Integrated Door Opening Assemblies

08 30 00 SPECIALTY DOORS AND FRAMES

08 31 00 Access Doors and Panels
08 32 00 Sliding Glass Doors
08 33 00 Coiling Doors and Grilles
08 34 00 Special Function Doors
08 35 00 Folding Doors and Grilles
08 36 00 Panel Doors
08 38 00 Traffic Doors
08 39 00 Pressure-Resistant Doors

08 40 00 ENTRANCES, STOREFRONTS, AND CURTAIN WALLS

08 41 00 Entrances and Storefronts
08 42 00 Entrances
08 43 00 Storefronts
08 44 00 Curtain Wall and Glazed Assemblies
08 45 00 Translucent Wall and Roof Assemblies
08 46 00 Window Wall Assemblies

08 50 00 WINDOWS

08 51 00 Metal Windows
08 52 00 Wood Windows
08 53 00 Plastic Windows
08 54 00 Composite Windows
08 55 00 Pressure-Resistant Windows
08 56 00 Special Function Windows

08 60 00 ROOF WINDOWS AND SKYLIGHTS

08 61 00 Roof Windows
08 62 00 Unit Skylights

08 63 00 Metal-Framed Skylights
08 64 00 Plastic-Framed Skylights
08 65 00 Glazed Canopies
08 67 00 Skylight Protection and Screens

08 70 00 HARDWARE

08 71 00 Door Hardware
08 75 00 Window Hardware
08 78 00 Special Function Hardware
08 79 00 Hardware Accessories

08 80 00 GLAZING

08 81 00 Glass Glazing
08 83 00 Mirrors
08 84 00 Plastic Glazing
08 85 00 Glazing Accessories
08 87 00 Glazing Surface Films
08 88 00 Special Function Glazing

08 90 00 LOUVERS AND VENTS

08 91 00 Louvers
08 92 00 Louvered Equipment Enclosures
08 95 00 Vents

09 00 00 FINISHES

09 01 00 Maintenance of Finishes
09 03 00 Conservation Treatment of Period Finishes
09 05 00 Common Work Results for Finishes
09 06 00 Schedules for Finishes
09 08 00 Commissioning of Finishes

09 20 00 PLASTER AND GYPSUM BOARD

09 21 00 Plaster and Gypsum Board Assemblies
09 22 00 Supports for Plaster and Gypsum Board
09 23 00 Gypsum Plastering
09 24 00 Cement Plastering
09 25 00 Other Plastering
09 26 00 Veneer Plastering
09 27 00 Plaster Fabrications
09 28 00 Backing Boards and Underlayments
09 29 00 Gypsum Board

09 30 00 TILING

09 31 00 Thin-Set Tiling
09 32 00 Mortar-Bed Tiling
09 33 00 Conductive Tiling
09 34 00 Waterproofing-Membrane Tiling
09 35 00 Chemical-Resistant Tiling

09 50 00 CEILINGS

09 51 00 Acoustical Ceilings
09 53 00 Acoustical Ceiling Suspension Assemblies
09 54 00 Specialty Ceilings
09 56 00 Textured Ceilings
09 57 00 Special Function Ceilings
09 58 00 Integrated Ceiling Assemblies

09 60 00 FLOORING

09 61 00 Flooring Treatment
09 62 00 Specialty Flooring
09 63 00 Masonry Flooring
09 64 00 Wood Flooring
09 65 00 Resilient Flooring
09 66 00 Terrazzo Flooring
09 67 00 Fluid-Applied Flooring
09 68 00 Carpeting
09 69 00 Access Flooring

09 70 00 WALL FINISHES

- 09 72 00 Wall Coverings
- 09 73 00 Wall Carpeting
- 09 74 00 Flexible Wood Sheets
- 09 75 00 Stone Facing
- 09 76 00 Plastic Blocks
- 09 77 00 Special Wall Surfacing
- 09 78 00 Interior Wall Paneling

09 80 00 ACOUSTIC TREATMENT

- 09 81 00 Acoustic Insulation
- 09 83 00 Acoustic Finishes
- 09 84 00 Acoustic Room Components

09 90 00 PAINTING AND COATING

- 09 91 00 Painting
- 09 93 00 Staining and Transparent Finishing
- 09 94 00 Decorative Finishing
- 09 96 00 High-Performance Coatings
- 09 97 00 Special Coatings

10 00 00 SPECIALTIES

- 10 01 00 Operation and Maintenance of Specialties
- 10 05 00 Common Work Results for Specialties
- 10 06 00 Schedules for Specialties
- 10 08 00 Commissioning of Specialties

10 10 00 INFORMATION SPECIALTIES

- 10 11 00 Visual Display Units
- 10 12 00 Display Cases
- 10 13 00 Directories
- 10 14 00 Signage
- 10 17 00 Telephone Specialties
- 10 18 00 Informational Kiosks

10 20 00 INTERIOR SPECIALTIES

- 10 21 00 Compartments and Cubicles
- 10 22 00 Partitions
- 10 25 00 Service Walls
- 10 26 00 Wall and Door Protection
- 10 28 00 Toilet, Bath, and Laundry Accessories

10 30 00 FIREPLACES AND STOVES

- 10 31 00 Manufactured Fireplaces
- 10 32 00 Fireplace Specialties
- 10 35 00 Stoves

10 40 00 SAFETY SPECIALTIES

- 10 41 00 Emergency Access and Information Cabinets
- 10 43 00 Emergency Aid Specialties
- 10 44 00 Fire Protection Specialties
- 10 45 00 Photoluminescent Exit Specialties

10 50 00 STORAGE SPECIALTIES

- 10 51 00 Lockers
- 10 55 00 Postal Specialties
- 10 56 00 Storage Assemblies
- 10 57 00 Wardrobe and Closet Specialties

10 70 00 EXTERIOR SPECIALTIES

- 10 71 00 Exterior Protection
- 10 73 00 Protective Covers
- 10 74 00 Manufactured Exterior Specialties
- 10 75 00 Flagpoles

10 80 00 OTHER SPECIALTIES

- 10 81 00 Pest Control Devices
- 10 82 00 Grilles and Screens
- 10 83 00 Flags and Banners

10 84 00 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 05 00 Common Work Results for Equipment
11 06 00 Schedules for Equipment
11 08 00 Commissioning of Equipment

11 10 00 VEHICLE AND PEDESTRIAN EQUIPMENT

11 11 00 Vehicle Service Equipment
11 12 00 Parking Control Equipment
11 13 00 Loading Dock Equipment
11 14 00 Pedestrian Control Equipment
11 15 00 Security Control Equipment

11 20 00 COMMERCIAL EQUIPMENT

11 21 00 Retail and Service Equipment
11 22 00 Banking Equipment
11 25 00 Hospitality Equipment
11 28 00 Office Equipment
11 29 00 Postal, Packaging, and Shipping Equipment

11 30 00 RESIDENTIAL EQUIPMENT

11 32 00 Unit Kitchens

11 40 00 FOODSERVICE EQUIPMENT

11 41 00 Foodservice Storage Equipment
11 42 00 Food Preparation Equipment
11 43 00 Food Delivery Carts and Conveyors
11 44 00 Food Cooking Equipment
11 46 00 Food Dispensing Equipment
11 48 00 Foodservice Cleaning and Disposal Equipment

11 50 00 EDUCATIONAL AND SCIENTIFIC EQUIPMENT

11 51 00 Library Equipment
11 52 00 Audio-Visual Equipment
11 53 00 Laboratory Equipment
11 55 00 Planetarium Equipment
11 56 00 Observatory Equipment
11 57 00 Vocational Shop Equipment
11 59 00 Exhibit Equipment

11 60 00 ENTERTAINMENT AND RECREATION EQUIPMENT

11 61 00 Broadcast, Theater, and Stage Equipment
11 62 00 Musical Equipment
11 66 00 Athletic Equipment
11 67 00 Recreational Equipment
11 68 00 Play Field Equipment and Structures

11 70 00 HEALTHCARE EQUIPMENT

11 71 00 Medical Sterilizing Equipment
11 72 00 Examination and Treatment Equipment
11 73 00 Patient Care Equipment
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 79 00 Therapy Equipment

11 80 00 FACILITY MAINTENANCE AND OPERATION EQUIPMENT

11 81 00 Facility Maintenance Equipment
11 82 00 Facility Solid Waste Handling Equipment

11 90 00 OTHER EQUIPMENT

11 91 00 Religious Equipment
11 92 00 Agricultural Equipment

- 11 93 00 Horticultural Equipment
- 11 94 00 Veterinary Equipment
- 11 95 00 Arts and Crafts Equipment
- 11 97 00 Security Equipment
- 11 98 00 Detention Equipment

12 00 00 FURNISHINGS

- 12 01 00 Operation and Maintenance of Furnishings
- 12 05 00 Common Work Results for Furnishings
- 12 06 00 Schedules for Furnishings
- 12 08 00 Commissioning of Furnishings

12 10 00 ART

- 12 11 00 Murals
- 12 12 00 Wall Decorations
- 12 14 00 Sculptures
- 12 17 00 Art Glass
- 12 19 00 Religious Art

12 20 00 WINDOW TREATMENTS

- 12 21 00 Window Blinds
- 12 22 00 Curtains and Drapes
- 12 23 00 Interior Shutters
- 12 24 00 Window Shades
- 12 25 00 Window Treatment Operating Hardware
- 12 26 00 Interior Daylighting Devices

12 30 00 CASEWORK

- 12 31 00 Manufactured Metal Casework
- 12 32 00 Manufactured Wood Casework
- 12 34 00 Manufactured Plastic Casework
- 12 35 00 Specialty Casework
- 12 36 00 Countertops

12 40 00 FURNISHINGS AND ACCESSORIES

- 12 41 00 Office Accessories
- 12 42 00 Table Accessories
- 12 43 00 Portable Lamps
- 12 44 00 Bath Furnishings
- 12 45 00 Bedroom Furnishings
- 12 46 00 Furnishing Accessories
- 12 48 00 Rugs and Mats

12 50 00 FURNITURE

- 12 51 00 Office Furniture
- 12 52 00 Seating
- 12 53 00 Retail Furniture
- 12 54 00 Hospitality Furniture
- 12 55 00 Detention Furniture
- 12 56 00 Institutional Furniture
- 12 57 00 Industrial Furniture
- 12 58 00 Residential Furniture
- 12 59 00 Systems Furniture

12 60 00 Multiple Seating

- 12 61 00 Fixed Audience Seating
- 12 62 00 Portable Audience Seating
- 12 63 00 Stadium and Arena Seating
- 12 64 00 Booths and Tables
- 12 65 00 Multiple-Use Fixed Seating
- 12 66 00 Telescoping Stands
- 12 67 00 Pews and Benches
- 12 68 00 Seat and Table Assemblies

12 90 00 Other Furnishings

- 12 92 00 Interior Planters and Artificial Plants
- 12 93 00 Interior Public Space Furnishings

13 00 00 SPECIAL CONSTRUCTION

- 13 01 00 Operation and Maintenance of Special Construction
- 13 05 00 Common Work Results for Special Construction
- 13 06 00 Schedules for Special Construction
- 13 08 00 Commissioning of Special Construction

13 10 00 SPECIAL FACILITY COMPONENTS

- 13 11 00 Swimming Pools
- 13 12 00 Fountains
- 13 13 00 Aquariums
- 13 14 00 Amusement Park Structures and Equipment
- 13 15 00 Specialty Element Construction
- 13 17 00 Tubs and Pools
- 13 18 00 Ice Rinks
- 13 19 00 Kennels and Animal Shelters

13 20 00 SPECIAL PURPOSE ROOMS

- 13 21 00 Controlled Environment Rooms
- 13 22 00 Office Shelters and Booths
- 13 23 00 Planetariums
- 13 24 00 Special Activity Rooms
- 13 26 00 Fabricated Rooms
- 13 27 00 Vaults
- 13 28 00 Athletic and Recreational Special Construction

13 30 00 SPECIAL STRUCTURES

- 13 31 00 Fabric Structures
- 13 32 00 Space Frames
- 13 33 00 Geodesic Structures
- 13 34 00 Fabricated Engineered Structures
- 13 35 00 Rammed Earth Construction
- 13 36 00 Towers

13 40 00 INTEGRATED CONSTRUCTION

- 13 42 00 Building Modules
- 13 44 00 Modular Mezzanines
- 13 47 00 Facility Protection
- 13 48 00 Sound, Vibration, and Seismic Control
- 13 49 00 Radiation Protection

13 50 00 SPECIAL INSTRUMENTATION

- 13 51 00 Stress Instrumentation
- 13 52 00 Seismic Instrumentation
- 13 53 00 Meteorological Instrumentation

14 00 00 CONVEYING EQUIPMENT

- 14 01 00 Operation and Maintenance of Conveying Equipment
- 14 05 00 Common Work Results for Conveying Equipment
- 14 06 00 Schedules for Conveying Equipment
- 14 08 00 Commissioning of Conveying Equipment

14 10 00 DUMBWAITERS

- 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 24 00 Hydraulic Elevators
- 14 26 00 Limited-Use/Limited-Application Elevators
- 14 27 00 Custom Elevator Cabs and Doors
- 14 28 00 Elevator Equipment and Controls

14 30 00 ESCALATORS AND MOVING WALKS

- 14 31 00 Escalators
- 14 32 00 Moving Walks
- 14 33 00 Moving Ramps

14 40 00 LIFTS

- 14 41 00 People Lifts
- 14 42 00 Wheelchair Lifts
- 14 43 00 Platform Lifts
- 14 44 00 Sidewalk Lifts
- 14 45 00 Vehicle Lifts
- 14 46 00 Material Lifts

14 70 00 TURNTABLES

- 14 71 00 Industrial Turntables
- 14 72 00 Hospitality Turntables
- 14 73 00 Exhibit Turntables
- 14 74 00 Entertainment Turntables

14 80 00 SCAFFOLDING

- 14 81 00 Suspended Scaffolding
- 14 82 00 Rope Climbers
- 14 83 00 Elevating Platforms
- 14 84 00 Powered Scaffolding

14 90 00 OTHER CONVEYING EQUIPMENT

- 14 91 00 Facility Chutes
- 14 92 00 Pneumatic Tube Systems
- 14 93 00 Slide Pole Systems

21 00 00 FIRE SUPPRESSION

- 21 01 00 Operation and Maintenance of Fire Suppression
- 21 05 00 Common Work Results for Fire Suppression
- 21 06 00 Schedules for Fire Suppression
- 21 07 00 Fire Suppression Systems Insulation
- 21 08 00 Commissioning of Fire Suppression
- 21 09 00 Instrumentation and Control for Fire-Suppression Systems

21 10 00 WATER-BASED FIRE-SUPPRESSION SYSTEMS

- 21 11 00 Facility Fire-Suppression Water-Service Piping
- 21 12 00 Fire-Suppression Standpipes
- 21 13 00 Fire-Suppression Sprinkler Systems
- 21 16 00 Fire-Suppression Pressure Maintenance Pumps

21 20 00 FIRE-EXTINGUISHING SYSTEMS

- 21 21 00 Carbon-Dioxide Fire-Extinguishing Systems
- 21 22 00 Clean-Agent Fire-Extinguishing Systems
- 21 23 00 Wet-Chemical Fire-Extinguishing Systems
- 21 24 00 Dry-Chemical Fire-Extinguishing Systems

21 30 00 FIRE PUMPS

- 21 31 00 Centrifugal Fire Pumps
- 21 32 00 Vertical-Turbine Fire Pumps
- 21 33 00 Positive-Displacement Fire Pumps
- 21 34 00 Fire Pump Accessories

21 40 00 FIRE-SUPPRESSION WATER STORAGE

- 21 41 00 Storage Tanks for Fire-Suppression Water

22 00 00 PLUMBING

- 22 01 00 Operation and Maintenance of Plumbing
- 22 05 00 Common Work Results for Plumbing
- 22 06 00 Schedules for Plumbing
- 22 07 00 Plumbing Insulation
- 22 08 00 Commissioning of Plumbing
- 22 09 00 Instrumentation and Control for Plumbing

22 10 00 PLUMBING PIPING

- 22 11 00 Facility Water Distribution
- 22 12 00 Facility Potable-Water Storage Tanks
- 22 13 00 Facility Sanitary Sewerage
- 22 14 00 Facility Storm Drainage
- 22 15 00 General Service Compressed-Air Systems

22 30 00 PLUMBING EQUIPMENT

- 22 31 00 Domestic Water Softeners
- 22 32 00 Domestic Water Filtration Equipment
- 22 33 00 Electric Domestic Water Heaters
- 22 34 00 Fuel-Fired Domestic Water Heaters
- 22 35 00 Domestic Water Heat Exchangers
- 22 36 00 Domestic Water Preheaters

22 40 00 PLUMBING FIXTURES

- 22 41 00 Residential Plumbing Fixtures
- 22 42 00 Commercial Plumbing Fixtures
- 22 43 00 Healthcare Plumbing Fixtures
- 22 45 00 Emergency Plumbing Fixtures
- 22 46 00 Security Plumbing Fixtures
- 22 47 00 Drinking Fountains and Water Coolers

22 50 00 POOL AND FOUNTAIN PLUMBING SYSTEMS

- 22 51 00 Swimming Pool Plumbing Systems
- 22 52 00 Fountain Plumbing Systems

22 60 00 GAS AND VACUUM SYSTEMS FOR LABORATORY AND HEALTHCARE FACILITIES

- 22 61 00 Compressed-Air Systems for Laboratory and Healthcare Facilities
- 22 62 00 Vacuum Systems for Laboratory and Healthcare Facilities
- 22 63 00 Gas Systems for Laboratory and Healthcare Facilities
- 22 66 00 Chemical-Waste Systems for Laboratory and Healthcare Facilities
- 22 67 00 Processed Water Systems for Laboratory and Healthcare Facilities

23 00 00 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

- 23 01 00 Operation and Maintenance of HVAC Systems
- 23 05 00 Common Work Results for HVAC
- 23 06 00 Schedules for HVAC
- 23 07 00 HVAC Insulation
- 23 08 00 Commissioning of HVAC
- 23 09 00 Instrumentation and Control for HVAC

23 10 00 FACILITY FUEL SYSTEMS

- 23 11 00 Facility Fuel Piping
- 23 12 00 Facility Fuel Pumps
- 23 13 00 Facility Fuel-Storage Tanks

23 20 00 HVAC PIPING AND PUMPS

- 23 21 00 Hydronic Piping and Pumps
- 23 22 00 Steam and Condensate Piping and Pumps
- 23 23 00 Refrigerant Piping
- 23 24 00 Internal-Combustion Engine Piping
- 23 25 00 HVAC Water Treatment

23 30 00 HVAC AIR DISTRIBUTION

- 23 31 00 HVAC Ducts and Casings
- 23 32 00 Air Plenums and Chases
- 23 33 00 Air Duct Accessories
- 23 34 00 HVAC Fans
- 23 35 00 Special Exhaust Systems
- 23 36 00 Air Terminal Units
- 23 37 00 Air Outlets and Inlets
- 23 38 00 Ventilation Hoods

23 40 00 HVAC AIR CLEANING DEVICES

- 23 41 00 Particulate Air Filtration
- 23 42 00 Gas-Phase Air Filtration
- 23 43 00 Electronic Air Cleaners

23 50 00 CENTRAL HEATING EQUIPMENT

- 23 51 00 Breechings, Chimneys, and Stacks
- 23 52 00 Heating Boilers
- 23 53 00 Heating Boiler Feedwater Equipment
- 23 54 00 Furnaces
- 23 55 00 Fuel-Fired Heaters

23 56 00 Solar Energy Heating Equipment

23 57 00 Heat Exchangers for HVAC

23 60 00 CENTRAL COOLING EQUIPMENT

23 61 00 Refrigerant Compressors

23 62 00 Packaged Compressor and Condenser Units

23 63 00 Refrigerant Condensers

23 64 00 Packaged Water Chillers

23 65 00 Cooling Towers

23 70 00 CENTRAL HVAC EQUIPMENT

23 71 00 Thermal Storage

23 72 00 Air-to-Air Energy Recovery Equipment

23 73 00 Indoor Central-Station Air-Handling Units

23 74 00 Packaged Outdoor HVAC Equipment

23 75 00 Custom-Packaged Outdoor HVAC Equipment

23 76 00 Evaporative Air-Cooling Equipment

23 80 00 Decentralized HVAC Equipment

23 81 00 Decentralized Unitary HVAC Equipment

23 82 00 Convection Heating and Cooling Units

23 83 00 Radiant Heating Units

23 84 00 Humidity Control Equipment

25 00 00 INTEGRATED AUTOMATION

25 01 00 Operation and Maintenance of Integrated Automation

25 05 00 Common Work Results for Integrated Automation

25 08 00 Commissioning of Integrated Automation

25 10 00 INTEGRATED AUTOMATION NETWORK EQUIPMENT

25 11 00 Integrated Automation Network Devices

25 12 00 Integrated Automation Network Gateways

25 13 00 Integrated Automation Control and Monitoring Network

25 14 00 Integrated Automation Local Control Units

25 15 00 Integrated Automation Software

25 30 00 INTEGRATED AUTOMATION INSTRUMENTATION AND TERMINAL DEVICES

25 31 00 ...for Facility Equipment

25 32 00 ...for Conveying Equipment

25 33 00 ...for Fire-Suppression Systems

25 34 00 ...for Plumbing

25 35 00 ...for HVAC

25 36 00 ...for Electrical Systems

25 37 00 ...for Communications Systems

25 38 00 ...for Electronic Safety and Security Systems

25 50 00 INTEGRATED AUTOMATION FACILITY CONTROLS

25 51 00 IAC of Facility Equipment

25 52 00 IAC of Conveying Equipment

25 53 00 IAC of Fire-Suppression Systems

25 54 00 IAC of Plumbing

25 55 00 IAC of HVAC

25 56 00 IAC of Electrical Systems

25 57 00 IAC of Communications Systems

25 58 00 IAC of Electronic Safety and Security Systems

25 90 00 INTEGRATED AUTOMATION CONTROL SEQUENCES

25 91 00 ...for Facility Equipment

25 92 00 ...for Conveying Equipment

25 93 00 ...for Fire-Suppression Systems

25 94 00 ...for Plumbing

25 95 00 ...for HVAC

25 96 00 ...for Electrical Systems

25 97 00 ...for Communications Systems

25 98 00 ...for Electronic Safety and Security Systems

26 00 00 ELECTRICAL

- 26 01 00 Operation and Maintenance of Electrical Systems
- 26 05 00 Common Work Results for Electrical
- 26 06 00 Schedules for Electrical
- 26 08 00 Commissioning of Electrical Systems
- 26 09 00 Instrumentation and Control for Electrical Systems

26 10 00 MEDIUM-VOLTAGE ELECTRICAL DISTRIBUTION

- 26 11 00 Substations
- 26 12 00 Medium-Voltage Transformers
- 26 13 00 Medium-Voltage Switchgear
- 26 15 00 Medium-Voltage Enclosed Bus Assemblies
- 26 16 00 Medium-Voltage Metering
- 26 18 00 Medium-Voltage Circuit Protection Devices

26 20 00 LOW-VOLTAGE ELECTRICAL DISTRIBUTION

- 26 21 00 Low-Voltage Electrical Service Entrance
- 26 22 00 Low-Voltage Transformers
- 26 23 00 Low-Voltage Switchgear
- 26 24 00 Switchboards and Panelboards
- 26 25 00 Low-Voltage Enclosed Bus Assemblies
- 26 27 00 Low-Voltage Distribution Equipment
- 26 28 00 Low-Voltage Circuit Protective Devices
- 26 29 00 Low-Voltage Controllers

26 30 00 FACILITY ELECTRICAL POWER GENERATING AND STORING EQUIPMENT

- 26 31 00 Photovoltaic Collectors
- 26 32 00 Packaged Generator Assemblies
- 26 33 00 Battery Equipment
- 26 35 00 Power Filters and Conditioners
- 26 36 00 Transfer Switches

26 40 00 ELECTRICAL PROTECTION

- 26 41 00 Facility Lightning Protection
- 26 43 00 Surge Protective Devices

26 50 00 LIGHTING

- 26 51 00 Interior Lighting
- 26 52 00 Safety Lighting
- 26 54 00 Classified Location Lighting
- 26 55 00 Special Purpose Lighting
- 26 56 00 Exterior Lighting

27 00 00 COMMUNICATIONS

- 27 01 00 Operation and Maintenance of Communications Systems
- 27 05 00 Common Work Results for Communications
- 27 06 00 Schedules for Communications
- 27 08 00 Commissioning of Communications

27 10 00 STRUCTURED CABLING

- 27 11 00 Communications Equipment Room Fittings
- 27 13 00 Communications Backbone Cabling
- 27 15 00 Communications Horizontal Cabling
- 27 16 00 Communications Connecting Cords, Devices, and Adapters

27 20 00 DATA COMMUNICATIONS

- 27 21 00 Data Communications Network Equipment
- 27 22 00 Data Communications Hardware
- 27 24 00 Data Communications Peripheral Data Equipment
- 27 25 00 Data Communications Software
- 27 26 00 Data Communications Programming and Integration Services

27 30 00 VOICE COMMUNICATIONS

- 27 31 00 Voice Communications Switching and Routing Equipment
- 27 32 00 Voice Communications Terminal Equipment
- 27 33 00 Voice Communications Messaging
- 27 34 00 Call Accounting
- 27 35 00 Call Management

27 40 00 AUDIO-VIDEO COMMUNICATIONS

27 41 00 Audio-Video Systems

27 42 00 Electronic Digital Systems

27 50 00 DISTRIBUTED COMMUNICATIONS AND MONITORING SYSTEMS

27 51 00 Distributed Audio-Video Communications Systems

27 52 00 Healthcare Communications and Monitoring Systems

27 53 00 Distributed Systems

28 00 00 Electronic Safety and Security

28 01 00 Operation and Maintenance of Electronic Safety and Security

28 05 00 Common Work Results for Electronic Safety and Security

28 06 00 Schedules for Electronic Safety and Security

28 08 00 Commissioning of Electronic Safety and Security

28 10 00 ACCESS CONTROL

28 11 00 Access Control Global Applications

28 13 00 Access Control Software and Database Management

28 14 00 Access Control System Hardware

28 15 00 Access Control Hardware Devices

28 16 00 Access Control Interfaces

28 17 00 Access Control Identification Management Systems

28 18 00 Security Access Detection Equipment

28 19 00 Access Control Vehicle Identification Systems

28 20 00 VIDEO SURVEILLANCE

28 21 00 Surveillance Cameras

28 23 00 Video Management System

28 25 00 Video Surveillance Positioning Equipment

28 27 00 Video Surveillance Sensors

28 30 00 SECURITY DETECTION, ALARM, AND MONITORING

28 31 00 Intrusion Detection

28 33 00 Security Monitoring and Control

28 35 00 Tracking Systems

28 37 00 Audio Monitoring

28 40 00 LIFE SAFETY

28 41 00 Radiation Detection and Alarm

28 42 00 Gas Detection and Alarm

28 43 00 Fuel Oil Detection and Alarm

28 44 00 Refrigerant Detection and Alarm

28 45 00 Water Detection and Alarm

28 46 00 Fire Detection and Alarm

28 47 00 Mass Notification

28 48 00 Emergency Response Systems

28 49 00 Electronic Personal Protection Systems

28 50 00 SPECIALIZED SYSTEMS

28 51 00 Information Management & Presentation

28 52 00 Detention Security Systems

31 00 00 EARTHWORK

31 01 00 Maintenance of Earthwork

31 05 00 Common Work Results for Earthwork

31 06 00 Schedules for Earthwork

31 08 00 Commissioning of Earthwork

31 09 00 Geotechnical Instrumentation and Monitoring of Earthwork

31 10 00 SITE CLEARING

31 11 00 Clearing and Grubbing

31 12 00 Selective Clearing

31 13 00 Selective Tree and Shrub Removal and Trimming

31 14 00 Earth Stripping and Stockpiling

31 20 00 EARTH MOVING

31 21 00 Off-Gassing Mitigation

31 22 00 Grading

31 23 00 Excavation and Fill

31 24 00 Embankments

31 25 00 Erosion and Sedimentation Controls

31 30 00 EARTHWORK METHODS

31 31 00 Soil Treatment

31 33 00 Rock Stabilization

31 34 00 Soil Reinforcement

31 35 00 Slope Protection

31 36 00 Gabions

31 37 00 Riprap

31 40 00 SHORING AND UNDERPINNING

31 41 00 Shoring

31 43 00 Concrete Raising

31 45 00 Vibroflotation and Densification

31 46 00 Needle Beams

31 48 00 Underpinning

31 50 00 EXCAVATION SUPPORT AND PROTECTION

31 51 00 Anchor Tiebacks

31 52 00 Cofferdams

31 53 00 Cribbing and Walers

31 54 00 Ground Freezing

31 56 00 Slurry Walls

31 60 00 SPECIAL FOUNDATIONS AND LOAD-BEARING ELEMENTS

31 62 00 Driven Piles

31 63 00 Bored Piles

31 64 00 Caissons

31 66 00 Special Foundations

31 68 00 Foundation Anchors

31 70 00 TUNNELING AND MINING

31 71 00 Tunnel Excavation

31 72 00 Tunnel Support Systems

31 73 00 Tunnel Grouting

31 74 00 Tunnel Construction

31 75 00 Shaft Construction

31 77 00 Submersible Tube Tunnels

32 00 00 EXTERIOR IMPROVEMENTS

32 01 00 Operation and Maintenance of Exterior Improvements

32 05 00 Common Work Results for Exterior Improvements

32 06 00 Schedules for Exterior Improvements

32 08 00 Commissioning of Exterior Improvements

32 10 00 BASES, BALLASTS, AND PAVING

32 11 00 Base Courses

32 12 00 Flexible Paving

32 13 00 Rigid Paving

32 14 00 Unit Paving

32 15 00 Aggregate Surfacing

32 16 00 Curbs, Gutters, Sidewalks, and Driveways

32 17 00 Paving Specialties

32 18 00 Athletic and Recreational Surfacing

32 30 00 SITE IMPROVEMENTS

32 31 00 Fences and Gates

32 32 00 Retaining Walls

32 33 00 Site Furnishings

32 34 00 Fabricated Bridges

32 35 00 Screening Devices

32 39 00 Manufactured Site Specialties

32 70 00 WETLANDS

32 71 00 Constructed Wetlands

32 72 00 Wetlands Restoration

32 80 00 IRRIGATION

32 81 00 Irrigation Components

- 32 82 00 Irrigation Pumps
- 32 84 00 Planting Irrigation
- 32 86 00 Agricultural Irrigation

32 90 00 PLANTING

- 32 91 00 Planting Preparation
- 32 92 00 Turf and Grasses
- 32 93 00 Plants
- 32 94 00 Planting Accessories
- 32 95 00 Exterior Planting Support Structures
- 32 96 00 Transplanting

33 00 00 UTILITIES

- 33 01 00 Operation and Maintenance of Utilities
- 33 05 00 Common Work Results for Utilities
- 33 06 00 Schedules for Utilities
- 33 08 00 Commissioning of Utilities
- 33 09 00 Instrumentation and Control for Utilities

33 10 00 WATER UTILITIES

- 33 11 00 Groundwater Sources
- 33 12 00 Surface Water Sources
- 33 14 00 Water Utility Transmission and Distribution
- 33 16 00 Water Utility Storage Tanks
- 33 19 00 Water Utility Metering Equipment

33 30 00 SANITARY SEWERAGE

- 33 31 00 Sanitary Sewerage Piping
- 33 32 00 Sanitary Sewerage Equipment
- 33 34 00 Onsite Wastewater Disposal
- 33 36 00 Wastewater Utility Storage Tanks
- 33 37 00 Overflow Control

33 40 00 STORMWATER UTILITIES

- 33 41 00 Subdrainage
- 33 42 00 Stormwater Conveyance
- 33 44 00 Stormwater Utility Equipment
- 33 46 00 Stormwater Management

33 50 00 HYDROCARBON UTILITIES

- 33 51 00 Hydrocarbon Sources
- 33 52 00 Hydrocarbon Transmission and Distribution
- 33 53 00 Hydrocarbon Utility Pressure Regulation
- 33 54 00 Hydrocarbon Utility Safety Equipment
- 33 56 00 Hydrocarbon Storage
- 33 57 00 Bulk Hydrocarbons Receiving/Dispensing Equipment
- 33 59 00 Hydrocarbon Utility Metering

33 60 00 HYDRONIC AND STEAM ENERGY UTILITIES

- 33 61 00 Hydronic Energy Distribution

33 70 00 ELECTRICAL UTILITIES

- 33 71 00 Electrical Utility Transmission and Distribution
- 33 72 00 Utility Substations
- 33 73 00 Utility Transformers
- 33 74 00 Extra High Voltage (EHV) Switchgear and protection devices
- 33 75 00 High-Voltage Switchgear and Protection Devices
- 33 77 00 Medium-Voltage Utility Switchgear and Protection Devices
- 33 78 00 Substation Converter Stations
- 33 79 00 Site Grounding

33 80 00 COMMUNICATIONS UTILITIES

- 33 81 00 Communications Structures
- 33 82 00 Communications Transmission and Distribution
- 33 83 00 Wireless Communications Transmission and Distribution

34 00 00 TRANSPORTATION

- 34 01 00 Operation and Maintenance of Transportation

- 34 05 00 Common Work Results for Transportation
- 34 06 00 Schedules for Transportation
- 34 08 00 Commissioning of Transportation

34 10 00 GUIDEWAYS/RAILWAYS

- 34 11 00 Rail Tracks
- 34 12 00 Monorails
- 34 13 00 Funiculars
- 34 14 00 Cable Transportation

34 20 00 TRACTION POWER

- 34 21 00 Traction Power Distribution
- 34 23 00 Overhead Traction Power
- 34 24 00 Third Rail Traction Power

34 40 00 TRANSPORTATION SIGNALING AND CONTROL EQUIPMENT

- 34 41 00 Roadway Signaling and Control Equipment
- 34 42 00 Railway Signaling and Control Equipment
- 34 43 00 Airfield Signaling and Control Equipment
- 34 48 00 Bridge Signaling and Control Equipment

34 50 00 TRANSPORTATION FARE COLLECTION EQUIPMENT

- 34 52 00 Vehicle Fare Collection
- 34 54 00 Passenger Fare Collection

34 70 00 TRANSPORTATION CONSTRUCTION AND EQUIPMENT

- 34 71 00 Roadway Construction
- 34 72 00 Railway Construction
- 34 73 00 Airfield Construction
- 34 75 00 Roadway Equipment
- 34 76 00 Railway Equipment
- 34 77 00 Transportation Equipment
- 34 78 00 Weighing Equipment

34 80 00 BRIDGES

- 34 81 00 Bridge Machinery
- 34 82 00 Bridge Specialties

35 00 00 WATERWAY AND MARINE CONSTRUCTION

- 35 01 00 Operation and Maintenance of Waterway and Marine Construction
- 35 05 00 Common Work Results for Waterway and Marine Construction
- 35 06 00 Schedules for Waterway and Marine Construction
- 35 08 00 Commissioning of Waterway and Marine Construction

35 10 00 WATERWAY AND MARINE SIGNALING AND CONTROL EQUIPMENT

- 35 11 00 Signaling and Control Equipment for Waterways
- 35 12 00 Marine Signaling and Control Equipment
- 35 13 00 Signaling and Control Equipment for Dams

35 20 00 WATERWAY AND MARINE CONSTRUCTION AND EQUIPMENT

- 35 21 00 General Fabrications for Waterways
- 35 22 00 Hydraulic Gates
- 35 24 00 Dredging

35 30 00 COASTAL CONSTRUCTION

- 35 31 00 Shoreline Protection
- 35 32 00 Artificial Reefs

35 40 00 WATERWAY CONSTRUCTION AND EQUIPMENT

- 35 41 00 Levees
- 35 42 00 Waterway Bank Protection
- 35 43 00 Waterway Scour Protection
- 35 49 00 Waterway Structures

35 50 00 MARINE CONSTRUCTION AND EQUIPMENT

- 35 51 00 Floating Construction
- 35 52 00 Offshore Platform Construction
- 35 53 00 Underwater Construction
- 35 59 00 Marine Specialties

35 70 00 DAM CONSTRUCTION AND EQUIPMENT

35 71 00 Gravity Dams
35 72 00 Arch Dams
35 73 00 Embankment Dams
35 74 00 Buttress Dams
35 79 00 Auxiliary Dam Structures

40 00 00 PROCESS INTERCONNECTIONS

40 01 00 Operation and Maintenance of Process Interconnections
40 05 00 Common Work Results for Process Interconnections
40 06 00 Schedules for Process Interconnections

40 10 00 GAS AND VAPOR PROCESS PIPING AND DUCTWORK

40 11 00 Steam Process Piping
40 12 00 Compressed Air Process Piping
40 13 00 Process Ductwork
40 15 00 Combustion System Gas Piping
40 16 00 Specialty and High-Purity Gases Piping
40 17 00 Welding and Cutting Gases Piping
40 18 00 Vacuum Systems Process Piping

40 20 00 LIQUIDS PROCESS PIPING

40 21 00 Liquid Fuel Process Piping
40 22 00 Petroleum Products Piping
40 23 00 Water and Wastewater Process Piping
40 24 00 Specialty Liquid Chemicals Piping
40 25 00 Liquid Acids and Bases Piping
40 26 00 Liquid Polymer Piping

40 30 00 SOLID AND MIXED MATERIALS PIPING AND CHUTES

40 32 00 Bulk Materials Piping and Chutes
40 33 00 Bulk Materials Valves
40 34 00 Pneumatic Conveying Lines

40 40 00 PROCESS PIPING AND EQUIPMENT PROTECTION

40 41 00 Process Piping and Equipment Heat Tracing
40 42 00 Process Piping and Equipment Insulation
40 46 00 Process Corrosion Protection
40 47 00 Refractories

40 60 00 PROCESS CONTROL AND ENTERPRISE MANAGEMENT SYSTEMS

40 61 00 Process Control and Enterprise Management Systems General Provisions
40 62 00 Computer System Hardware and Ancillaries
40 63 00 Control System Equipment
40 66 00 Network and Communication Equipment
40 67 00 Control System Equipment Panels and Racks
40 68 00 Process Control Software
40 69 00 Packaged Control Systems

40 70 00 INSTRUMENTATION FOR PROCESS SYSTEMS

40 71 00 Flow Measurement
40 72 00 Level Measurement
40 73 00 Pressure, Strain, and Force Measurement
40 74 00 Temperature Measurement
40 75 00 Process Liquid Analytical Measurement
40 76 00 Process Gas Analytical Measurement
40 77 00 Position and Motion Measurement
40 78 00 Panel Mounted Instruments
40 79 00 Miscellaneous Instruments, Calibration Equipment, Instrument Valves, and Fittings

40 80 00 COMMISSIONING OF PROCESS SYSTEMS

40 90 00 PRIMARY CONTROL DEVICES

40 91 00 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 05 00 Common Work Results for Material Processing and Handling Equipment
41 06 00 Schedules for Material Processing and Handling Equipment
41 08 00 Commissioning of Material Processing and Handling Equipment

41 10 00 BULK MATERIAL PROCESSING EQUIPMENT

41 11 00 Bulk Material Sizing Equipment
41 12 00 Bulk Material Conveying Equipment
41 13 00 Bulk Material Feeders
41 14 00 Batching Equipment

41 20 00 PIECE MATERIAL HANDLING EQUIPMENT

41 21 00 Conveyors
41 22 00 Cranes and Hoists
41 23 00 Lifting Devices
41 24 00 Specialty Material Handling Equipment

41 30 00 MANUFACTURING EQUIPMENT

41 31 00 Manufacturing Lines and Equipment
41 32 00 Forming Equipment
41 33 00 Machining Equipment
41 34 00 Finishing Equipment
41 35 00 Dies and Molds
41 36 00 Assembly and Testing Equipment

41 40 00 CONTAINER PROCESSING AND PACKAGING

41 41 00 Container Filling and Sealing
41 42 00 Container Packing Equipment
41 43 00 Shipping Packaging

41 50 00 MATERIAL STORAGE

41 51 00 Automatic Material Storage
41 52 00 Bulk Material Storage
41 53 00 Storage Equipment and Systems

41 60 00 MOBILE PLANT EQUIPMENT

41 61 00 Mobile Earth Moving Equipment
41 62 00 Trucks
41 63 00 General Vehicles
41 64 00 Rail Vehicles
41 65 00 Mobile Support Equipment
41 66 00 Miscellaneous Mobile Equipment
41 67 00 Plant Maintenance Equipment

42 00 00 PROCESS HEATING, COOLING, AND DRYING EQUIPMENT

42 01 00 Operation and Maintenance of Process Heating, Cooling, and Drying Equipment
42 05 00 Common Work Results for Process Heating, Cooling, and Drying Equipment
42 06 00 Schedules for Process Heating, Cooling, and Drying Equipment
42 08 00 Commissioning of Process Heating, Cooling, and Drying Equipment

42 10 00 PROCESS HEATING EQUIPMENT

42 11 00 Process Boilers
42 12 00 Process Heaters
42 13 00 Industrial Heat Exchangers and Recuperators
42 14 00 Industrial Furnaces
42 15 00 Industrial Ovens

42 20 00 PROCESS COOLING EQUIPMENT

42 21 00 Process Cooling Towers
42 22 00 Process Chillers and Coolers
42 23 00 Process Condensers and Evaporators

42 30 00 PROCESS DRYING EQUIPMENT

42 31 00 Gas Dryers and Dehumidifiers
42 32 00 Material Dryers

43 00 00 PROCESS GAS AND LIQUID HANDLING, PURIFICATION, AND STORAGE EQUIPMENT

43 01 00 Operation and Maintenance of Division

43 05 00 Common Work Results for Division

43 06 00 Schedules for Division

43 08 00 Commissioning of Division

43 10 00 GAS HANDLING EQUIPMENT

43 11 00 Gas Fans, Blowers, Pumps and Boosters

43 12 00 Gas Compressors

43 13 00 Gas Process Equipment

43 15 00 Process Air and Gas Filters

43 20 00 LIQUID HANDLING EQUIPMENT

43 22 00 Liquid Process Equipment

43 23 00 Dry Location Liquid Pumps

43 24 00 Suspended Liquid Pumps

43 25 00 Submersible/Immersible Liquid Pumps

43 26 00 Specialized Liquid Pumps

43 27 00 Process Liquid Filters

43 30 00 GAS AND LIQUID PURIFICATION EQUIPMENT

43 31 00 Gas and Liquid Purification Filtration Equipment

43 32 00 Gas and Liquid Purification Process Equipment

43 40 00 GAS AND LIQUID STORAGE

43 41 00 Non-pressurized Tanks and Vessels

43 42 00 Pressurized Tanks and Vessels

44 00 00 POLLUTION AND WASTE CONTROL EQUIPMENT

44 01 00 Operation and Maintenance of Pollution and Waste Control Equipment

44 05 00 Common Work Results for Pollution and Waste Control Equipment

44 06 00 Schedules for Pollution and Waste Control Equipment

44 08 00 Commissioning of Pollution and Waste Control Equipment

44 10 00 AIR POLLUTION CONTROL

44 11 00 Particulate Control Equipment

44 13 00 Gaseous Air Pollution Control Equipment

44 20 00 NOISE POLLUTION CONTROL

44 21 00 Noise Pollution Control Equipment

44 30 00 ODOR CONTROL

44 31 00 Odor Treatment Equipment

44 32 00 Odor Dispersing and Masking/Counteracting Equipment

44 40 00 WATER POLLUTION CONTROL EQUIPMENT

44 41 00 Water Pollution Containment and Cleanup Equipment

44 50 00 SOLID WASTE CONTROL AND REUSE

44 51 00 Solid Waste Collection, Transfer, and Hauling Equipment

44 53 00 Solid Waste Processing Equipment

44 55 00 Composting Equipment

44 60 00 WASTE THERMAL PROCESSING EQUIPMENT

44 61 00 Waste-to-Energy Plants

44 62 00 Fluidized Bed Combustion Equipment

44 63 00 Rotary Kiln Incinerators

44 64 00 Gasification Equipment

44 65 00 Pyrolysis Equipment

44 66 00 Hazardous Waste and Medical Waste Incinerators

44 67 00 Heat Recovery Equipment for Waste Thermal Processing

44 68 00 Synthesis Gas Cleanup and Handling Equipment

45 00 00 INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT

45 05 00 Common Work Results for Industry-Specific Manufacturing Equipment

45 08 00 Commissioning of Industry-Specific Manufacturing Equipment

45 11 00 OIL AND GAS EXTRACTION EQUIPMENT

45 12 00 User-Defined Oil and Gas Extraction Equipment

45 13 00 Mining Machinery and Equipment

45 14 00 User-Defined Mining Machinery and Equipment

45 15 00 Food Manufacturing Equipment

45 16 00 User-Defined Food Manufacturing Equipment

45 17 00 Beverage and Tobacco Manufacturing Equipment

45 18 00 User-Defined Beverage and Tobacco Manufacturing Equipment

45 19 00 Textiles and Apparel Manufacturing Equipment

45 20 00 USER-DEFINED TEXTILES AND APPAREL MANUFACTURING EQUIPMENT

45 21 00 Leather and Allied Product Manufacturing Equipment

45 22 00 User-Defined Leather and Allied Product Manufacturing Equipment

45 23 00 Wood Product Manufacturing Equipment

45 24 00 User-Defined Wood Product Manufacturing Equipment

45 25 00 Paper Manufacturing Equipment

45 26 00 User-Defined Paper Manufacturing Equipment

45 27 00 Printing and Related Manufacturing Equipment

45 28 00 User-Defined Printing and Related Manufacturing Equipment

45 29 00 Petroleum and Coal Products Manufacturing Equipment

45 30 00 USER-DEFINED PETROLEUM AND COAL PRODUCTS MANUFACTURING EQUIPMENT

45 31 00 Chemical Manufacturing Equipment

45 32 00 User-Defined Chemical Manufacturing Equipment

45 33 00 Plastics and Rubber Manufacturing Equipment

45 34 00 User-Defined Plastics and Rubber Manufacturing Equipment

45 35 00 Nonmetallic Mineral Product Manufacturing Equipment

45 36 00 User-Defined Nonmetallic Mineral Product Manufacturing Equipment

45 37 00 Primary Metal Manufacturing Equipment

45 38 00 User-Defined Primary Metal Manufacturing Equipment

45 39 00 Fabricated Metal Product Manufacturing Equipment

45 40 00 USER-DEFINED FABRICATED METAL PRODUCT MANUFACTURING EQUIPMENT

45 41 00 Machinery Manufacturing Equipment

45 42 00 User-Defined Machinery Manufacturing Equipment

45 43 00 Computer and Electronic Product Manufacturing Equipment

45 44 00 User-Defined Computer and Electronic Product Manufacturing Equipment

45 45 00 Electrical Equipment, Appliance, and Component Manufacturing Equipment

45 46 00 User-Defined Electrical Equipment, Appliance, and Component Manufacturing Equipment

45 47 00 Transportation Manufacturing Equipment

45 48 00 User-Defined Transportation Manufacturing Equipment

45 49 00 Furniture and Related Product Manufacturing Equipment

45 50 00 USER-DEFINED FURNITURE AND RELATED PRODUCT MANUFACTURING EQUIPMENT

45 52 00 User-Defined Other Manufacturing Equipment

45 53 00 Biopharmaceutical Manufacturing Equipment

46 00 00 WATER AND WASTEWATER EQUIPMENT

46 01 00 Operation and Maintenance of Water and Wastewater Equipment

46 05 00 Common Work Results for Water and Wastewater Equipment

46 06 00 Schedules for Water and Wastewater Equipment

46 07 00 Packaged Water and Wastewater Treatment Equipment

46 08 00 Commissioning of Water and Wastewater Equipment

46 20 00 WATER AND WASTEWATER PRELIMINARY TREATMENT EQUIPMENT

46 21 00 Screening Equipment

46 23 00 Grit Removal and Handling Equipment

46 24 00 Grinding and Shredding Equipment

46 25 00 Oil and Grease Separation and Removal Equipment

46 30 00 WATER AND WASTEWATER CHEMICAL FEED EQUIPMENT

46 31 00 Gas Chemical Feed Equipment

46 33 00 Liquid Chemical Feed Equipment

46 36 00 Dry Chemical Feed Equipment

46 40 00 WATER AND WASTEWATER CLARIFICATION AND MIXING EQUIPMENT

46 41 00 Mixing Equipment

46 43 00 Clarifier Equipment

46 46 00 Sediment Removal Equipment

46 50 00 WATER AND WASTEWATER SECONDARY TREATMENT EQUIPMENT

46 51 00 Air and Gas Diffusion Equipment

46 53 00 Biological Treatment Systems

46 60 00 WATER AND WASTEWATER ADVANCED TREATMENT EQUIPMENT

46 61 00 Filtration Equipment

46 63 00 Demineralization Equipment

46 66 00 Ultraviolet Equipment

46 70 00 WATER AND WASTEWATER RESIDUALS HANDLING AND TREATMENT

46 71 00 Residuals Thickening Equipment

46 73 00 Residuals Stabilization

46 76 00 Residuals Dewatering Equipment

46 78 00 Thermal Treatment of Residuals

48 00 00 ELECTRICAL POWER GENERATION

48 01 00 Operation and Maintenance for Electrical Power Generation

48 05 00 Common Work Results for Electrical Power Generation

48 06 00 Schedules for Electrical Power Generation

48 08 00 Commissioning of Electrical Power Generation

48 09 00 Instrumentation and Control for Electrical Power Generation

48 10 00 ELECTRICAL POWER GENERATION EQUIPMENT

48 11 00 Fossil Fuel Plant Electrical Power Generation Equipment

48 12 00 Nuclear Fuel Plant Electrical Power Generation Equipment

48 13 00 Hydroelectric Plant Electrical Power Generation Equipment

48 14 00 Solar Energy Electrical Power Generation Equipment

48 15 00 Wind Energy Electrical Power Generation Equipment

48 16 00 Geothermal Energy Electrical Power Generation Equipment

48 17 00 Electrochemical Energy Electrical Power Generation Equipment

48 18 00 Fuel Cell Electrical Power Generation Equipment

48 19 00 Electrical Power Control Equipment

48 30 00 COMBINED HEAT AND POWER GENERATION

48 31 00 Combustion Combined Heat and Power Generation

48 70 00 ELECTRICAL POWER GENERATION TESTING

48 71 00 Electrical Power Generation Test Equipment