

DIVISION 13 – SPECIAL CONSTRUCTION

13 00 00 SPECIAL CONSTRUCTION

13 01 00 Operation and Maintenance of Special Construction

- 13 01 10 Operation and Maintenance of Special Facility Components
- 13 01 11 Operation and Maintenance of Swimming Pools
- 13 01 12 Operations and Maintenance of Fountains
- 13 01 13 Operation and Maintenance of Aquariums
- 13 01 14 Operation and Maintenance of Amusement Park Structures and Equipment
- 13 01 18 Operation and Maintenance of Ice Rinks
- 13 01 20 Operation and Maintenance of Special Purpose Rooms
- 13 01 21 Operation and Maintenance of Controlled Environment Rooms
- 13 01 23 Operation and Maintenance of Planetariums
- 13 01 30 Operation and Maintenance of Special Structures
- 13 01 40 Operation and Maintenance of Integrated Construction
- 13 01 49 Operation and Maintenance of Radiation Protection
- 13 01 50 Operation and Maintenance of Special Instrumentation
- 13 01 51 Operation and Maintenance of Stress Instrumentation
- 13 01 52 Operation and Maintenance of Seismic Instrumentation
- 13 01 53 Operation and Maintenance of Meteorological Instrumentation

13 05 00 Common Work Results 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 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 20 00 SPECIAL PURPOSE ROOMS

Mechanical Rooms

- 1.01 All HVAC equipment with the exception of air control devices, fan coil units, and roof-mounted exhaust fans shall be located in a mechanical room.
- 1.02 Fan coil units shall condition mechanical rooms. Ventilation of mechanical rooms using outside air will not be permitted.
- 1.03 Mechanical rooms shall have an appropriate number of floor drains. Floor drains shall be equipped with automatic trap primers in accordance with the Arkansas Mechanical Code and shall be plumbed to sanitary sewer.

- 1.04 Mechanical rooms include a designated area for electrical panels and control panels and associated working clearances. Panel locations shall be indicated on the mechanical Construction Documents¹.
- 1.05 Mechanical rooms shall be of sufficient size to provide adequate space for equipment access. Equipment access requirements shall be coordinated with the equipment manufacturers and shall be indicated on the Construction Documents.
- 1.06 Mechanical room lighting shall provide a minimum illumination level of 15 footcandles at 30" AFF. Light fixture locations shall be coordinated with equipment, duct, and piping locations such that equipment work areas are adequately illuminated.
- 1.07 Mechanical rooms shall be equipped with heat and smoke detectors connected to the building fire alarm system.
- 1.08 Mechanical rooms shall be equipped with a fire alarm A/V device, portable fire extinguisher, telephone outlet, and data outlet.
- 1.09 Mechanical rooms housing refrigeration equipment shall be designed in compliance with the Arkansas Mechanical Code and ASHRAE Standard 15.
- 1.10 Mechanical room partition fire resistance ratings shall be comply with applicable codes and regulations and shall be coordinated with the Architect.
- 1.11 Mechanical equipment shall be installed on housekeeping pads.
- 1.12 Large rotating mechanical equipment that is not internally isolated shall be installed on vibration isolation pads.
- 1.13 Mechanical room partitions, floors, and ceilings (if applicable) shall have a minimum Sound Transmission Coefficient (STC) rating of 45.

¹ For coordination purposes.

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 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 27 00 Vaults

- 13 27 16 Modular Fire Vaults
- 13 27 53 Security Vaults
 - 13 27 53.13 Modular Concrete Security Vaults
 - 13 27 53.1 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 19 Metal Building Systems
- 13 34 23 Fabricated Structures
 - 13 34 23.13 Portable and Mobile Buildings
 - 13 34 23.16 Fabricated Control Booths
 - 13 34 23.19 Fabricated Dome Structures
 - 13 34 23.23 Fabricated Substation Control Rooms
- 13 34 56 Observatories

13 36 00 Towers

- 13 36 13 Metal Towers
 - 13 36 13.13 Steel Towers
- 13 36 23 Wood Towers

13 40 00 INTEGRATED CONSTRUCTION

13 42 00 Building Modules

- 13 42 25 Hospitality Unit Modules
- 13 42 33 Apartment Unit Modules
- 13 42 43 Dormitory Unit Modules
- 13 42 63 Detention Cell Modules
 - 13 42 63.13 Precast Concrete Detention Cell Modules
 - 13 42 63.16 Steel Detention Cell Modules

13 44 00 Modular Mezzanines

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 Lead Sheet
- 13 49 16 Lead Bricks
- 13 49 19 Lead-Lined Materials
 - 13 49 19.13 Lead Lined Lath
- 13 49 23 Modular Shielding Partitions

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