DIVISION 1
Division 1 makes reference to administrative requirements, financial information, quality requirements, regulatory requirements, testing service, construction equipment and etc. These items are specific to each individual project and are not directly applicable in defining "Design Standards".

DIVISION 2
Division 2 makes reference to excavation, site preparation, utility services, sanitary sewage, power and communication, foundations, drainage, pavement, retaining walls, landscape and etc. These items are specific to each individual project and are not directly applicable in defining "Design Standards".

DIVISION 3
Division 3 makes reference to concrete, concrete reinforcement, cast-in-place concrete, concrete finishes, precast concrete, post-tensioned concrete, grout and etc. These items are specific to each individual project and are not directly applicable in defining "Design Standards".

DIVISION 4
Masonry: Per project, as appropriate. Review all selections with Cleveland Clinic Planning & Design for approval.

DIVISION 5
SECTION 055000 – METAL FABRICATIONS
Ladders and Rungs: Per Code, including OSHA and OBC.

SECTION 057300 – DECORATIVE RAILING AND HANDRAILS
SECTION 057313 – GLAZED DECORATIVE METAL RAILINGS
Components for railing assemblies, including handrails, panels, posts and balustrades. All designs to be reviewed and approved by Cleveland Clinic Planning and Design.
Aluminum pipe railing, post and pickets are to be of 6063-T59 Aluminum Alloy, finish to be anodized.

Conform to the following: ASTM B209 / ASTM B221 / ASTM B429

Stainless steel shall be Type 304, 18-8 Chrome-Nickel Alloy.

Conform to the following: ASTM A269 / ASTM A276 / ASTM A312

Steel shall be hot rolled carbon steel C1010.

Conform to the following: ASTM A29 / ASTM A500 / ASTM A512

Refer to Section 088000 – “Glazing” for Cleveland Clinic glass standards.

Manufacturer: Julius Blum and Co., Inc. J.G. Braun Company, Poma Corporation, TSM Manufacturing, Inc. and R&B Wagner, Inc.

SECTION 057000 – DECORATIVE METAL
SECTION 057500 – DECORATIVE FORMED METAL

Metal roofs, screens, column covers, fascia covers, light coves and building panels. Cast-iron post, railings, handrails, guard rails, grilles, custom doors and gates. Cast-aluminum post, railings, handrails, guard rails, pickets and grilles. All


DIVISION 6

SECTION 064116 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

Cabinet and Drawer Hardware

Refer to Cleveland Clinic Millwork (wood and plastic laminate) standards.

Laminates

Plastic, wood or metallic veneers applied to a stable Fire Rated backing material. Backing material shall be MDF board or 45 lb. Density particle board.

Plastic laminate thickness: .050” horizontal surfaces
.032” vertical surfaces

Wood Veneer Thickness: .022” to .030” horizontal or vertical surfaces

Metallic Veneer Thickness: .039” horizontal or vertical surfaces

Conform to the following: ASTM E-84UL 723
Class I/A = Flame spread ≤ 25 Smoke ≤ 450

Manufacturers:
Plastics Laminate: WilsonArt
Wood Veneers: Weyerhaeuser
Eggers Industries
Indiana Architecture Products

Metallic Veneer: Metal Moulding, Inc.

Solid Acrylic Fabrications

Toilet room countertops, shower bases, patient room & exam room countertops, and any other appropriate clinical or lab wet area.
A homogenous thermoset polymer compound, comprised of acrylic components filled 00++ with aluminum trihydrate. All surfaces are nonporous.

Manufacturers: Corian (Dupont Co.)

**DIVISION 7**

**SECTION 075216 – SBS MODIFIED BITUMINOUS MEMBRANE ROOFING**

**SECTION 075552 – MODIFIED BITUMINOUS PROTECTED MEMBRANE ROOFING**

Refer to Cleveland Clinic Roofing Standard.

**SECTION 078000 – APPLIED FIREPROOFING**

**SECTION 078123 – INTUMESCENT FIREPROOFING**

**SECTION 079200 – BOARD FIREPROOFING**

**SECTION 078413 – PENETRATION FIREPROOFING**

**SECTION 078443 – JOINT FIRESTOPPING**

Refer to Cleveland Clinic Fire Protection Standard.

**SECTION 079200 – JOINT SEALANTS**

Sealants, Caulking and Seals: Color to match adjacent materials and finishes.

**DIVISION 8**

**SECTION 081113 – HOLLOW METAL DOORS AND FRAMES**

A. **Hollow Metal Doors**

   Exterior Doors: Face sheets shall be 14 ga. hot dipped zinc coated steel. Conform with ASTM A525 A60.

   Door cores to be completely filled with a rigid polyurethane core. Insulation value of R=10. Interior Doors: Face sheets shall be 16 ga. cold rolled steel. Conform with ASTM A366 or 620.

B. **Hollow Metal Frames Exterior Frames:** Frame shall be 14 ga. hot dipped zinc coated steel. Weld all face seams, grind smooth and zinc prime. Conform with ASTM A525 A60. Interior Frames: Frame shall be 16 ga. hot dipped zinc coated steel. Weld all face seams, grind smooth and prime. Conform with ASTM A526 A60. Stainless Steel Door Frames shall be 16 ga. and all welded construction. Lead-lined Metal Door Frames shall be 16 ga. and welded construction. All Doors and Frames shall comply with current National Fire Protection Standards, NFPA-80.

   All "Label" Doors and Frames shall bear a stamp or label from "Underwriters Laboratory." Manufacturers: Ceco, Amweld and Republic

**SECTION 081416 – FLUSH WOOD DOOR**

Solid Core Wood Doors: The solid core material to be used shall be a structural composite Lumber Core which is an engineered hardwood composite, also referred to as LSL (Laminated Strand Lumber).

Thickness: 1 3/4" Conform to the following:
NFPA-80 (fire doors)
  UL 10B (neutral pressure) and UL 10C (positive pressure) ASTM E90-90
  (airborne sound)
Manufacturers: Eggers Industries, Weyerhaeuser and Buell Door Co.

SECTION 083113 – ACCESS DOORS AND FRAMES
Drywall Access Doors:
16 ga. cold rolled steel frame and 14 ga. cold rolled steel door Insulated Fire Rated
Access Doors:
16 ga. steel frame; 1" wide 20 ga. steel pan type door with 2" thick fire rated insulation.

SECTION 084229.23 – SLIDING AUTOMATIC ENTRANCES
Automatic slide door system complete with activation controls, safety sensors and
access control system with recessed panic hardware for integration of Matrix security. Provide emergency breakout for slide and/or sidelights (project specific) and complete
with self-closing devices.
Finish: Clear anodized aluminum unless stated to match other finishes, i.e painted and
stainless steel.
Door panel design: 1 ¾” thickness, narrow stile construction, 4” bottom rail, 5” top rail,
horizontal intermediate.
Framing: 1 ¾” x 4 ½” jambs, 8” x 6” Head (across width of opening), transom above (if
indicated).
Glazing: ¼”, ½” 9/16”, 5/8”, 1” (1/2” only for All Glass units)
Thresholds: ½” high, saddle, square/bevel, and square/square
Operation: Motion activation for ingress/egress for non-secured applications, Card
reader/motion activation for ingress/egress at secured applications, push plate controls
optional.
Automatic Entrance Door system shall comply with ANAI A156.10, U.L. and C.S.A.
listed.
Manufacturers: Stanley Access Technologies or Besam. Other manufacturers may be
approved only with the written approval of Cleveland Clinic Planning & Design or
Facilities Engineering.

SECTION 087100 – DOOR HARDWARE
Butts and Hinges:
Manufacturers: Hager Hinge Co., McKinney Products Co. and Stanley Hardware (Stanley
Works)

Pivots:
Manufacturers: Glynn-Johnson Corp., Hager Hinge Co., Division Ingersoll-Rand Door
Key Control System:
Manufacturer: Lund Equipment Co. and Telkee, Inc.

Cylinders and Locks:
- CL3300 Series N2D
- ML2000 Series NSA
Manufacturers: Corbin/Russwin Arch. Hardware
No Substitutions will be accepted.

Bolts:

Push/Pull Mortise Lock
Manufacturers: Glynn-Johnson Corp. and Trimco

Privacy Sets
Manufacturers:
- Yale AU5425LN (Special Modified)
- Best 93KOL15DS3

Exit/Panic Devices:
Manufacturers:
- Von Duprin, (Ingersoll-Rand Door Hardware Group) 99 Series
- Corbin/Russwin Arch. Hardware 5000 Series
- Yale Security, Inc. 7000 Series
No Substitutions will be accepted

Push/Pull Units:

Overhead Closers:
Manufacturers:
- LCN (Ingersoll-Rand Door Hardware Group) 4000 Series
- Norton Door Controls 7500 Series
No Substitutions will be accepted

Smoke-Activated Closers:
Manufacturers: LCN, Div. Ingersoll-Rand Door Hardware Group and Norton Door Controls No Substitutions will be accepted

Door Control Devices:

Door Trim Units:

Kick, Mop, and Armor Plates:
Manufacturers: Hager Hinge Co., Rockwood Manufacturing Co., H.B. Ives, A Harrow Company and
Burns Manufacturing Corp.

**Sliding Door Hardware Sets:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works and Besam

**Sliding Pocket Door Sets:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Bifold Door Hardware:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Door Stripping and Seals:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Thresholds:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Automatic Drop Seals:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Sound Stripping:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Astragals:**
Manufacturers: Grant Hardware Co., L.E. Johnson Products, Inc. and Stanley Hardware, Div. Stanley Works

**Exit Devices**
Exit device shall be stainless steel.
Manufacturers: Von Duprin, Corbin/Russwin, and Yale Security, Inc.

**NOTE:** Do not throw out any old door hardware with the cylinders. All old door hardware should be returned to Police/Security – U12. Old hardware is reused throughout the Foundation after being re-keyed.

**SECTION 087113 – AUTOMATIC DOOR OPERATORS**
Automatic swing door operator system complete with activation controls, door mounted safety sensors and relays for integration of Matrix security.

Finish: Clear anodized aluminum unless stated to match other finishes, i.e painted and stainless steel.

Operation: Stainless Steel 4 ½” square momentary contact push plates for non-patient areas, 4 ½” touchless infrared push plate for patient areas, motion controls optional.
Secured locations will require card reader by Matrix for non secure side of opening.

Optional control mounting devices: 4”x6” bollard, 5” square bollard, 6” square bollard, finish to be clear anodized aluminum, painted, or stainless steel.

Conform to the following: ANSI A156.19/ANSI 156.10, UL, BOCA and NFPA 101
Manufacturer: Stanley Access Technologies, Besam, Dorma Automatics and
SECTION 088000 – GLAZING

Background: Tempered Glass is four to five times stronger than annealed glass of equal thickness. Higher resistance to thermal stress.

Laminated Glass (Safety Glass) meets safety glazing requirements and tends to remain in place when broken. Provides additional security and reduces UV transmission. Insulated Glass is made up of two lights hermetically sealed providing insulation. Reduces condensation and sound.

Size: Tempered Glass: 90”x 165” (maximum) Laminated Glass: 80”x 165” (maximum)
Insulated Glass: Varies

Thickness: 1/8” to 3/4” (tempered) 5/32” to 3” (laminated) Varies (insulated) Conform to the following: ASTM C1048 (tempered), ASTM C1172 (laminated) and ASTM E774 (insulated).


DIVISION 9

SECTION 093013 – CERAMIC TILING
Refer to Cleveland Clinic Interior Finishes standard.

SECTION 095113 – ACOUSTIC PANEL CEILINGS
Refer to Cleveland Clinic APC Standard.

SECTION 096516 – RESILIENT SHEET FLOORING
Refer to Cleveland Clinic Interior Finishes standard.

SECTION 096813 – TILE CARPETING
SECTION 096816 – SHEET CARPETING
Refer to Cleveland Clinic Interior Finishes standard.

SECTION 096900 – ACCESS FLOORING
Refer to Cleveland Clinic ITD Standard

SECTION 097200 – WALL COVERINGS
Wallcoverings are not permitted on Cleveland Clinic projects.

SECTION 099123 – INTERIOR PAINTING
Refer to Cleveland Clinic Interior Finishes standard.

DIVISION 10

SECTION 101100 – VISUAL DISPLAY UNITS
Marker writing surface and mounting surfaces of various materials. Coordinate any and all products with Cleveland Clinic Planning & Design Interior Designer. Manual and motor operated units are optional.

Products, Inc. and Takeform, Inc.

**SECTION 101300 – DIRECTORIES**

Changeable strip and letter directories and display boards, coordinated tackboard/display case units and illuminated and electronic directories.

Directories: Component system with an extended aluminum frame. Finish shall be anodized or baked enamel.

Background Options:
1. Changeable cartridges/headers (back illuminated)
2. Photo transparency display (back illuminated)
3. Optional graphics (back illuminated)
4. Changeable letter board
5. Custom maps/plans
6. Magnetic display board
7. Changeable message strips
8. Self-healing corkboard

Bulletin Board: Component system with an extruded aluminum frame. Finish shall be anodized or baked enamel.

Background Options:
1. 1/2" thick backer
2. Textured fabric over cork
3. Vinyl over cork
4. Graphic panel for maps and logo

Manufacturer: Nelson-Harkins Industries, APCO sign systems, Poblocki & Sons Peter Pepper Products, Inc.

**SECTION 102113.13 – METAL TOILET COMPARTMENTS**

**SECTION 102113.15 – STAINLESS STEEL TOILET COMPARTMENTS**

**SECTION 102113.16 – PLASTIC-LAMINATE-CLAD TOILET COMPARTMENTS**

Metal Partitions: 1” thick, 20 gauge metal panels 1” thick, 22 gauge metal doors 1-1/4” thick, 20 gauge metal stiles (pilasters)

Plastic Laminate: 1” thick, .050 plastic laminate over 48 lb. Density particle board. 1” thick panels 1” thick doors 1-1/4” thick stiles (pilasters)

Manufacturer: American Sanitary Partition Corp., Bradley Corp. and Sanymetal Products

**SECTION 102123 – CUBICLE CURTAINS AND TRACKS**

Curtains and tracks for screening patients areas.

Cubicle Curtain Tracking Systems shall be a heavy-duty channel track extruded from 6063-T5 aluminum alloy, with a wall thickness of .062 (min.) up to .070 thickness. Provide appropriate attachment and anchoring accessories as required for an acoustic ceiling grid systems.

Tracks to be a clear anodized aluminum finish.
An I.V. Tracking System shall be the same as the heavy-duty curtain tracking channels. The following options are available:

I Self-Locking I.V. Carriage
I Twist-Lock I.V. Carriage
I 5 bottle or 8-bottle I.V. Pendant

5-bottle or 8 bottle telescoping I.V. Pendant

All curtains are custom made and manufactured to the most rigid quality. It is recommended that all curtains be at least 10% wider than the cubicle curtain track. All cubicle curtains shall hang 12" to 15" above finish floor. Grommets will be nickel plated brass and will be machined into the top hem at 6" intervals.

Standard nylon mesh to be at least 20" high, to allow ventilation and light flow.

All curtains are to be flame resistant. Must comply with the following flame resistant requirements:

Manufacturer: General Cubicle Co., InPro Corp. and Salsbury Industries

SECTION 102239 – FOLDING PANEL PARTITIONS

Folding, sliding partitions and walls:

A. Accordion-type folding partitions shall not be permitted unless approved by Cleveland Clinic Planning & Design Department.

B. Operable wall shall be a series of individual flat panels, manually operated. Top supported with operable floor seals.

Panels shall be 3" to 4" thick and a standard 48" wide (maximum). All panel horizontal and vertical framing elements shall be formed steel.

Partitions to be suspended from a track system. Track shall be a minimum of 11 ga. cold roll-formed steel. Track shall be capable of direct mounting to a wood header or shall be supported by adjustable steel hanger brackets.

All face material shall be of class "A" rated in accordance with ASTM E-84. Select a heavy-duty reinforced vinyl with woven backing; acoustical non-woven carpet or wall covering and upholstery fabric. A full height tackboard with fabric covering is also possible.


SECTION 102600 – WALL AND DOOR PROTECTION

Wall and Corner Guards: Refer to Cleveland Clinic Interior Finishes standard.

SECTION 102800 – TOILET, BATH AND LAUNDRY ACCESSORIES

Stainless steel accessories for the typical toilet rooms:

All doors to be 16 ga. stainless steel with a No. 4 satin finish All cabinets to be 20 ga. stainless steel with a No. 4 satin finish

Types of Accessories:
1 Combination towel/waste dispenser (recessed)
2 Soap dispenser (wall mounted)
3 Grab bars, 18 ga., Type 304 stainless steel (1-1/2" dia.) one pair per each handicapped stall.
4 Mirrors with stainless steel frames (surface mounted)
5 Toilet tissue dispenser (surface mounted jumbo roll dispenser)
6 Sanitary napkin dispenser (semi-recessed)
7 Sanitary napkin disposal (serves two compartments/dual access)
8 Folding utility shelf (women's toilet only; one per each toilet stall)
9 Baby changing station (semi-recessed)
10 Janitor's utility shelf and mop holder (surface mounted)

Manufacturer: American Specialties, Inc.; Bobrick Washroom Equipment, Inc.; Bradley Corp. and Koala

SECTION 102819 – TUB AND SHOWER DOORS
Doors, partitions and wall surfacing for tub or shower areas:

1 Glass: 3/8" to 1/2" tempered glass for a frameless application; 3/16" to 1/4" tempered glass used only with the extruded aluminum frame systems. Glazing material shall meet or exceed ANSI Z97.1- 1984 and CPSC standard 16 CFR 1201, Category I and II.

2 Extrusion: Extruded shapes shall be number 385 architectural bronze or alloy number 6463-T5 or alloy number 6063-T5, depending on the application.

3 Hardware: Heavy duty solid brass spring loaded hinges used at the frameless application. Heavy- duty ball bearing roller system, stainless steel pivot bolts and piano hinges. Aluminum, polished stainless steel and solid brass handles. All ASD screws are rustproof stainless steel.

4 Finish: Brush chrome plated, brush nickel, 24 K gold plated and anodized aluminum.


SECTION 104413 – FIRE PROTECTION CABINETS

SECTION 104416 – FIRE EXTINGUISHERS
Refer to Cleveland Clinic Fire Protection Standards.

SECTION 105143 – WIRE MESH STORAGE LOCKERS
Framed wire mesh partition or woven wire panel system.

Locations: Loading dock areas, storage rooms and facilities/engineering spaces (and similar).

DIVISION 11
Division 11 makes reference to various specification sections maintenance equipment, security and vault equipment, bank equipment, library equipment, transportation terminal equipment, waste chutes, walk-in cooler and residential appliances, to name a few. These items are specific to each individual project and are not directly applicable in defining "Design Standards".

Refer to Cleveland Clinic Loading Dock Equipment Standard.

DIVISION 12
SECTION 124813 – ENTRANCE FLOOR MATS AND FRAMES
Refer to “Entrance Mat Vestibule Carpet” in the Cleveland Clinic Interior Finishes standard.

DIVISION 13
Refer to CC Vibration standards.
Division 13 includes various unique specification sections, including: sound-conditioned rooms, saunas and equipment, bullet-resistant protection, sound, seismic control, lightning protection, metal buildings, swimming pools and solar energy systems, to name a few. These items are specific to each individual project and are.

DIVISION 14
This Division refers to vertical transportation building components. Refer to Cleveland Clinic Elevator standard.

APPENDIX
ABBREVIATIONS
OBC Ohio Building Code
NFPA National Fire Protection Agency
OFOI Owner furnished / Owner installed
OFCI Owner furnished / Contractor installed
CFCI Contractor furnished / Contractor installed

END OF SELECTED ARCHITECTURAL SPECIFICATIONS.