

COMPLIANCE CHECKLIST**OP8 Outpatient Infusion Centers**

The following checklist is intended to be used in the plan review applications for health care facilities submitted to the Massachusetts Department of Public Health. This checklist summarizes and references the applicable requirements from the Licensure Regulations and the 2018 Edition of the FGI Guidelines for Design and Construction of Outpatient Facilities. Applicants must verify compliance of the plans submitted to the Department with all referenced requirements from the Licensure Regulations and FGI Guidelines when completing this Checklist. A separate Checklist must be completed for each nursing unit, hospital or clinic department, or clinical suite.

Other jurisdictions, regulations and codes may have additional requirements which are not included in this checklist, such as:

- NFPA 101 Life Safety Code (2012) and applicable related standards contained in the appendices of the Code
- State Building Code (780 CMR)
- Accreditation requirements of The Joint Commission
- CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797 & Regulations of the Massachusetts Board of Registration in Pharmacy
- Occupational Safety & Health Standards (OSHA)
- Accessibility Guidelines of the Americans with Disabilities Act (ADA)
- Architectural Access Board Regulations (521 CMR)
- Local Authorities having jurisdiction.

Instructions:

1. All requirement lines must be completed according to the following instructions and included in the plan submissions for Self-Certification Process or Abbreviated Review Process.
2. This checklist must be completed by the project architect or engineer based on the design actually reflected in the plans at the time of completion of the checklist.
3. Each requirement line (____) of this Checklist must be completed exclusively with one of the following marks, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the mark "E" may be indicated on the requirement line (____) before the name of the functional space (associated requirements on indented lines below that name, or associated MEP requirements do not have to be completed in this case). If more than one functional space serves a given required function (e.g. patient room or exam room), that clarification should be provided in the Project Narrative, and the requirement lines are understood to only address the functional spaces that are involved in the project.

X = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.

☒ = Check box under section titles or individual requirements lines for optional services or functions that are not included in the project area.

E = Requirement relative to an existing suite or area that has been *licensed* for its designated function, is *not affected* by the construction project and *does not pertain to a required direct support space* for the specific service affected by the project. "E" must not be used for an existing required support space associated with a new patient care room or area.

W = Waiver requested for specific section of the Regulations or FGI Guidelines, where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request). An explicit floor plan or plan detail must be attached to each waiver request.

4. All room functions marked with "X" must be shown on the plans with the same name labels as in this checklist.
5. Mechanical, electrical & plumbing requirements are only partially mentioned in this checklist. The relevant section of the FGI Guidelines must be used for project compliance with all MEP requirements and for waiver references.
6. Oxygen, vacuum, medical air, waste anesthesia gas disposal and instrument air outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", "WAGD" & "IA".
7. Requirements referenced with "FI" result from formal interpretations from the FGI Interpretations Task Group.
8. The location requirements including asterisks (*) refer to the definitions of the Glossary in the beginning section of the FGI Guidelines and reproduced in this checklist.

Facility Name:

DoN Project Number: (if applicable)

Facility Address:

Satellite Name: (if applicable)

Building/Floor Location:

Satellite Address: (if applicable)

Submission Dates:

Initial Date:

Revision Date:

Project Description:

Architectural Requirements**Building Systems Requirements****2.6 OUTPATIENT INFUSION CENTERS****2.6-2 ACCOMMODATIONS FOR CARE OF PATIENTS OF SIZE**

2.1-2.1.1.2 ☐ check if not included in project (only if a Patient Handling & Movement Assessment that determines that the outpatient service does not have a need for expanded-capacity lifts & architectural details that support movement of patients of size in patient areas is attached to the Project Narrative)

2.1-2.1.2 Location:
☐ spaces designated for care of or use by patients of size are provided in locations to accommodate population expected to be served by facility

2.1-2.5 ☐ Handwashing stations
 2.1-2.5.2 ☐ downward static force required for handwashing stations designated for patients of size accommodates maximum patient weight of patient population

2.1-2.6 ☐ Patient toilet room
 2.1-2.6.1 ☐ expanded-capacity toilet
☐ mounted min. 36 inches from finished wall to centerline of toilet on both sides (for caregiver assistance with lifts)

or

2.1-2.6.2 ☐ regular toilet
☐ mounted min. 44 inches from centerline of toilet on both sides to finished walls to allow for positioning of expanded-capacity commode over toilet

2.1-2.6.3 ☐ rectangular clear floor area min. 46" wide extend 72" from front of toilet

2.1-2.7 ☐ Single-patient exam/observation room

2.1-2.7.1 Space Requirements:

2.1-2.7.1.1(1) ☐ min. 5'-0" clearance at foot of expanded-capacity exam table
 (2) ☐ min. 3'-0" clearance on non-transfer side of expanded-capacity exam table

(3)(a) ☐ min. 5'-0" on transfer side of expanded-capacity exam table with ceiling- or wall-mounted lift

or

(b) ☐ min. 7'-0" on transfer side of expanded-capacity exam table in rooms without ceiling- or wall-mounted lift

2.1-2.8 ☐ Equipment & supply storage

Ventilation:

☐ Min. 10 air changes per hour Table 8.1
☐ Exhaust
☐ Negative pressure
☐ No recirculating room units

Ventilation:

☐ Min. 4 air changes per hour Table 8.1

Lighting:

☐ Portable or fixed exam light 2.1-8.3.4.3(1)

Power:

☐ Min. 8 receptacles Table 2.1-1
☐ 4 convenient to head of exam table or gurney

Architectural Requirements**Building Systems Requirements**

- 2.1-2.9 ☐ Waiting areas
- 2.1-2.9.1 ☐ seating for persons of size be provided in waiting areas in outpatient facilities
- 2.1-2.9.2 ☐ waiting areas be sized to accommodate expanded-capacity furniture required for patients & visitors of size
- 2.1-2.10.1 ☐ All plumbing fixtures, handrails, grab bars, patient lift, equipment, built-in furniture & other furnishings designed to accommodate maximum patient weight
- 2.1-2.10.2 **Door Openings:**
- 2.1-2.10.2.1 ☐ all door openings used for path of travel to public areas & care areas for patients of size have min. clear width of 45.5"
- 2.1-2.10.2.2 ☐ door openings to toilet rooms designated for patients of size have min. clear width of 45.5"

2.6-3.1 **INFUSION AREA**

- 2.6-3.1.1.3 ☐ Infusion area is separate from administrative & waiting areas

2.6-3.1.2 **Space Requirements:**

- ☐ Treatment bays
- ☐ check if not included in project
- 2.6-3.1.2.1(1) ☐ min. clear floor area 70 sf
- 2.6-3.1.2.2(1) ☐ min. 5'-0" clearance between sides of patient lounge chairs
- (a) 2.6-3.1.2.2(1) ☐ min. 3'-0" clearance between sides of patient lounge chairs & adjacent* walls or partitions
- (b) 2.6-3.1.2.2(1) ☐ min. 2'-0" clearance between foot of lounge chair & cubicle curtain
- (c)

Ventilation:

☐ Min. 6 air changes per hour Table 8.1

- 2.6-3.1.2.1(2) ☐ Treatment cubicles
- ☐ check if not included in project
- ☐ min. clear floor area 80 sf
- 2.6-3.1.2.2(2) ☐ min. 3'-0" clearance between sides of patient lounge chairs & adjacent* walls or partitions
- (a)
- 2.6-3.1.2.2(2) ☐ min. 2'-0" clearance between foot of lounge chair & cubicle curtain
- (b)

Ventilation:

☐ Min. 6 air changes per hour Table 8.1

- 2.6-3.1.2.1(3) ☐ Single-patient treatment rooms
- ☐ check if not included in project
- ☐ min. clear floor area 100 sf
- 2.6-3.1.2.2(3) ☐ min. 3'-0" clearance between sides & foot of patient lounge chairs & adjacent* walls or partitions

- 2.6-3.1.4 **Privacy:**
- ☐ each infusion patient care station has provisions for visual privacy

Architectural Requirements**Building Systems Requirements**

- 2.6-3.1.5 ☐ Handwashing stations
- 2.6-3.1.5.2 ☐ located in, next to or directly accessible* to nurse station
- 2.1-3.8.7.1 ☐ located in each room where hands-on patient care is provided
- 2.1-3.8.7.3 ☐ handwashing station serves multiple patient care stations
☐ check if not included in project
- (1) ☐ at least one handwashing station provided for every four patient care stations or fewer & for each major fraction thereof
- (2) ☐ handw. stations evenly distributed based on arrangement of patient care stations

- 2.6-3.1.6 ☐ Patient toilet room
- 2.6-3.1.6.1 ☐ at least one patient toilet room with handwashing station immediately accessible* to infusion area
- 2.6-3.1.6.2 ☐ accessible without leaving infusion area

2.6-3.2 **EXAMINATION ROOM**

- ☐ check if not included in project
- 2.1-3.2.1.2 ☐ Single-patient exam/observation room
- (1)(a) ☐ immediately accessible* to nurse or control station & toilet room
- (2)(a) ☐ Space Requirements:
☐ min. clear floor area of 80 sf
☐ room size allows min. clearance 2'-8" at each side & at foot of exam table or recliner
☐ room arrangement shown in the plans for each exam room (Layout #1)
- (1)(b) ☐ room arrangement in which exam table recliner or chair is placed at angle closer to one wall than another or against wall to accommodate type of patient being served
☐ check if not included in project
☐ room arrangement shown in the plans (Layout #2)
☐ proposed room arrangement to accommodate type of patient being served is explained in Project Narrative
- (3) ☐ Exam Room Features:
- (a) ☐ portable or fixed exam light
- (b) ☐ storage for supplies
- (c) ☐ accommodations for written or electronic documentation
- (d) ☐ space for visitor's chair
- (e) ☐ handwashing station

Ventilation:

- ☐ Min. 10 air changes per hour Table 8.1
- ☐ Exhaust
- ☐ Negative pressure
- ☐ No recirculating room units

Ventilation:

- ☐ Min. 4 air changes per hour Table 8.1
- Power:
- ☐ Min. 8 receptacles Table 2.1-1
- ☐ 4 convenient to head of exam table or gurney

Architectural Requirements**Building Systems Requirements****2.6-3.4.1 AIRBORNE INFECTION ISOLATION (AII) ROOM**

☐ check if not included in project (only if Infection Control Risk Assessment (ICRA) attached to Project Narrative states that no AII room is needed)

- 2.6-3.1.2.1(3) ☐ Min. clear floor area 100 sf
 2.6-3.1.2.2(3) ☐ Min. 3'-0" clearance between sides & foot of patient lounge chairs & adjacent* walls or partitions

- (1) Capacity:
☐ each AII room accommodates only one patient
- (2) ☐ Handwashing station
- (3) ☐ Personal protective equipment (PPE) storage
☐ located at room entrance

- 2.1-3.3.2.3 ☐ Anteroom
☐ check if not included in project
- (1) ☐ anteroom provide space for persons to don PPE before entering AII room
- (2) ☐ all doors to anteroom have self-closing devices
- (3)(a) ☐ handwashing station
- (3)(b) ☐ storage for unused PPE
- (3)(c) ☐ disposal/holding container for used PPE

- 2.1-3.3.2.4 Architectural Details & Furnishings:
- (1)(a) ☐ perimeter walls ceiling & floor including penetrations are constructed to prevent air exfiltration
- (1)(b) ☐ self-closing devices on all room exit doors
- or**
- ☐ activation of audible alarm when AII room is in use as isolation room

- ☐ edge seals provided along sides & top of doorframe for any door into AII room
- (2)(a) ☐ window treatments do not include fabric drapes & curtains
- 2.1-3.3.2.5 ☐ room pressure visual or audible alarm

Ventilation:

- ☐ Min. 12 air changes per hour Table 8.1
- ☐ Exhaust
- ☐ Negative pressure
- ☐ No recirculating room units
- ☐ Exhaust register located directly above patient bed on ceiling or on wall near head of bed Part 3/7.2.1

Ventilation:

- ☐ Min. 10 air changes per hour Table 8.1
- ☐ Exhaust
- ☐ No recirculating room units

2.6-3.8 SUPPORT AREAS FOR INFUSION CENTER

- 2.6-3.8.2 ☐ Nurse station
☐ located in infusion area
- 2.6-3.8.2.1 ☐ designed to provide for monitoring of all patient care stations
- 2.6-3.8.2.2 ☐ located out of direct line of traffic
- 2.1-3.8.2.1 ☐ work counter
- 2.1-3.8.2.2 ☐ means for facilitating staff communication

Architectural Requirements**Building Systems Requirements**

- 2.1-3.8.2.3 _____ space for supplies
- 2.1-3.8.2.4 _____ accommodations for written or electronic documentation
- 2.1-3.8.2.5 _____ hand sanitation dispenser
- 2.6-3.8.8 _____ Medication safety zone
- 2.1-3.8.8.1(2) _____ Design Promoting Safe Medication Use:
- (a) _____ medication safety zones located out of circulation paths
- (b) _____ work space designed so that staff can access information & perform required tasks
- (c) _____ work counters provide space to perform required tasks
- (e) _____ sharps containers placed at height that allows users to see top of container
- 2.1-3.8.8.2 (1) _____ medication preparation room
- (a) _____ work counter
- _____ handwashing station
- _____ lockable refrigerator
- _____ locked storage for controlled drugs
- _____ sharps containers
- _____ ☐ check if not included in project
- (b) _____ self-contained medication dispensing units
- _____ ☐ check if not included in project
- _____ room designed with space to prepare medications
- or**
- (2) _____ automated medication-dispensing unit
- (a) _____ located at nurse station, in clean workroom or in alcove
- (b) _____ handw. station or hand sanitation dispenser provided next to stationary medication-dispensing units
- (c) _____ countertop or cart provided adjacent* to stationary medication-dispensing units
- 2.6-3.8.9 _____ Nourishment area
- 2.1-3.8.9.1 _____ handw. station in or directly accessible*
- 2.1-3.8.9.2 _____ work counter
- 2.1-3.8.9.3 _____ storage
- 2.1-3.8.9.4 _____ fixtures & appliances for beverages & nourishment
- 2.6-3.8.9.2 _____ Provisions for drinking water
- 2.6-3.8.11 _____ Clean workroom or clean supply room
- 2.1-3.8.11.1 _____ separate from & have no direct connection with soiled workrooms or soiled holding rooms
- Lighting: _____ Task-specific lighting level min. 100 foot-candles 2.1-3.8.8.1(2)(d)
- Ventilation: _____ Min. 4 air changes per hour Table 8.1
- Lighting: _____ Task lighting 2.1-3.8.8.1(2)(d)
- Lighting: _____ Task lighting 2.1-3.8.8.1(2)(d)
- Ventilation: _____ Min. 2 air changes per hour Table 8.1

Architectural Requirements		Building Systems Requirements	
2.1-3.8.11.2 (1) (2) (3)	<input type="checkbox"/> clean workroom <input type="checkbox"/> work counter <input type="checkbox"/> handwashing station <input type="checkbox"/> storage facilities for clean & sterile supplies	Ventilation: <input type="checkbox"/> Min. 4 air changes per hour <input type="checkbox"/> Positive pressure	Table 8.1
or			
2.1-3.8.11.3	<input type="checkbox"/> clean supply room <input type="checkbox"/> used only for storage & holding as part of system for distribution of clean & sterile materials	Ventilation: <input type="checkbox"/> Min. 4 air changes per hour <input type="checkbox"/> Positive pressure	Table 8.1
2.6-3.8.12 2.1-3.8.12.1	<input type="checkbox"/> Soiled workroom or soiled holding room <input type="checkbox"/> do not have direct connection with clean workrooms or clean supply rooms		
2.1-3.8.12.2 (1)(a) (1)(b) (1)(c) (1)(d)	<input type="checkbox"/> soiled workroom <input type="checkbox"/> handwashing station <input type="checkbox"/> flushing-rim clinical service sink or equivalent flushing-rim fixture <input type="checkbox"/> work counter <input type="checkbox"/> space for separate covered containers for waste & soiled linen	Ventilation: <input type="checkbox"/> Min. 10 air changes per hour <input type="checkbox"/> Exhaust <input type="checkbox"/> Negative pressure <input type="checkbox"/> No recirculating room units	Table 8.1
(2) (a) (b)	<input type="checkbox"/> fluid management system <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> electrical & plumbing connections that meet manufacturer requirements <input type="checkbox"/> space for docking station		
or			
2.1-3.8.12.3 (1) (2)	<input type="checkbox"/> soiled holding room <input type="checkbox"/> handwashing station or hand sanitation dispenser <input type="checkbox"/> space for separate covered containers for waste & soiled linen	Ventilation: <input type="checkbox"/> Min. 10 air changes per hour <input type="checkbox"/> Exhaust <input type="checkbox"/> Negative pressure <input type="checkbox"/> No recirculating room units	Table 8.1
2.6-3.8.13.1 (2) (1)	<input type="checkbox"/> Clean linen storage (may be alcove with cart or space between patient care stations) <input type="checkbox"/> separate designated spaces are provided for clean linen storage & soiled linen holding		
2.6-3.8.13.3 2.1-6.2.7.1	<input type="checkbox"/> Wheelchair storage <input type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> designated area located out of required corridor width <input type="checkbox"/> directly accessible* to entrance <input type="checkbox"/> provided for at least one wheelchair		

Architectural Requirements**Building Systems Requirements**

- 2.1-6.2.7.2 ☐ Wheelchair parking space
☐ check if not included in project (only if facility provides services that do not require patients to transfer to facility chair, recliner, exam table or stretcher)
☐ designated area provided for parking at least one patient-owned wheelchair in non-public area
☐ located out of any required egress width or other required clearance

2.6-3.9 **SUPPORT AREAS FOR STAFF**

- 2.6-3.9.1 ☐ Staff lounge
 2.6-3.9.1.2 (staff lounge may serve more than one clinical service area)
 2.6-3.9.1.1 ☐ readily accessible*
 (1) ☐ lockers
 (2) ☐ Staff toilet rooms
 (3) ☐ adjacent* to staff lounge
 2.6-3.9.2 ☐ readily accessible* to nurse station
☐ handwashing station

Ventilation:

- ☐ Min. 10 air changes per hour Table 8.1
☐ Exhaust
☐ Negative pressure
☐ No recirculating room units

2.6-3.10 **SUPPORT AREAS FOR PATIENTS**

- ☐ Storage for patient belongings located in infusion area

2.6-5.3 **ENVIRONMENTAL SERVICES ROOM**

- 2.1-5.3.1 ☐ Environmental services room
 2.1-5.3.1.1(3) (may serve more than one clinical service area on same floor)
 2.1-5.3.1.1(1) ☐ min. one environmental services room per floor
 2.1-5.3.1.1(2) ☐ additional ES rooms provided on floor according to needs of areas served
 2.1-5.3.1.2(1) ☐ service sink or floor-mounted mop sink
 2.1-5.3.1.2(2) ☐ provisions for storage of supplies & housekeeping equipment
 2.1-5.3.1.2(3) ☐ handwashing station or hand sanitation dispenser

Ventilation:

- ☐ Min. 10 air changes per hour Table 8.1
☐ Exhaust
☐ Negative pressure
☐ No recirculating room units

2.6-6.2 **PUBLIC AREAS**

- 2.1-6.2.1 ☐ Vehicular drop-off & pedestrian entrance
 2.1-6.2.1.1 ☐ min. of one building entrance reachable from grade level
 2.1-6.2.1.2 ☐ building entrances used to reach outpatient services be clearly marked
 2.1-6.2.1.3 ☐ building entrances used to reach outpatient services located so patients need not go through other activity areas (except for shared lobbies in multi-occupancy buildings)
 2.1-6.2.2 ☐ Reception
☐ reception & information counter, desk or kiosk provided either at main entry or at each clinical service

Architectural Requirements**Building Systems Requirements**

- 2.6-6.2.3 ☐ Waiting area or room
☐ readily accessible* to infusion area
- 2.1-6.2.3.2 ☐ visible from staff area either by camera
☐ or direct staff sight line

2.6-6.3 **ADMINISTRATIVE AREAS**

- 2.6-6.3.3 ☐ Office space for business, administrative &
professional staffs
- 2.6-6.3.5 ☐ Medical records space
☐ provisions be made for securing
medical records of all media types used
by facility
- 2.1-6.3.5.1 ☐ location restricted to staff access to
maintain confidentiality of record
- 2.1-6.3.5.2 Space Requirements:
(1) ☐ space provided for medical
records management
- (2) ☐ physical space for electronic
storage of forms or documents

***LOCATION TERMINOLOGY:**

Directly accessible: Connected to the identified area or room through a doorway, pass-through, or other opening without going through an intervening room or public space

Adjacent: Located next to but not necessarily connected to the identified area or room

Immediately accessible: Available either in or adjacent to the identified area or room

Readily accessible: Available on the same floor or in the same clinic as the identified area or room

Architectural Details & MEP Requirements**2.1-7.2.2 ARCHITECTURAL DETAILS****2.1-7.2.2.1 CORRIDOR WIDTH:**

IBC 1018.2 ☐ Min. 44"

or

☐ Detailed code review incorporated in Project Narrative

421 CMR 6.00 ☐ Corridors include turning spaces for wheelchairs

(2) ☐ Corridors used for stretcher & gurney transport have min. corridor or aisle width of 6'-0"
☐ check if not included in project

2.1-7.2.2.2 CEILING HEIGHT:

(2) ☐ Min. height 7'-0" in radiography, procedure, operating rooms from floor to lowest protruding element of equipment or fixture in stowed position
☐ Min. height 7'-6" above floor of suspended tracks, rails & pipes located in traffic path
☐ Min. ceiling height 7'-10" in other areas

2.1-7.2.2.3 DOORS & DOOR HARDWARE:**(1) Door Type:**

(a) ☐ doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors
☐ sliding doors
☐ check if not included in project
☐ manual or automatic sliding doors comply with NFPA 101
☐ detailed code review incorporated in Project Narrative
☐ no floor tracks

(2) Door Opening:

(a) ☐ min. 34" clear door width
☐ min. 83.5" clear door height

(b) Rooms with Gurney Access:

☐ check if not included in project
☐ 41.5" min. clear door width
☐ 79.5" min. clear door height

(3)

(a)

Door Swing:

☐ doors do not swing into corridors except doors to non-occupiable spaces (e.g. environmental services rooms & electrical closets) & doors with emergency breakaway hardware

(4)

☐ Lever hardware or push/pull latch hardware

(5)

(a)

Doors for Patient Toilet Facilities:

☐ door that swings outward

or

☐ door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)

or

☐ sliding door other than pocket door

(b)

☐ toilet room opens onto public area or corridor
☐ check if not included in project
☐ visual privacy is maintained

2.1-7.2.2.8

(3)(a)

HANDWASHING STATIONS:

☐ Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly

(3)(b)

☐ Countertops substrate
☐ check if not included in project
☐ marine-grade plywood (or equivalent material) with impervious seal

(4)

☐ Handwashing station casework
☐ check if not included in project
☐ designed to prevent storage beneath sink

(5)

☐ Provisions for drying hands
☐ check if not included in project (only at hand scrub facilities)

(a)

☐ hand-drying device does not require hands to contact dispenser

(b)

☐ hand-drying device is enclosed to protect against dust or soil

(6)

☐ Liquid or foam soap dispensers

2.1-7.2.2.9

(1)

GRAB BARS:

☐ Grab bars anchored to sustain concentrated load 250 pounds

(3)

☐ Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors

2.1-7.2.2.10 HANDRAILS:

- ☐ check if not included in project
- (2) ☐ Rail ends return to wall or floor
- (3) ☐ Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements) with 1/8-inch min. radius
- (4) ☐ Handrails have eased edges & corners
- (5) ☐ Handrail finishes are cleanable

2.1-7.2.2.14 ☐ Decorative water features

- ☐ check if not included in project
- (1) ☐ no indoor unsealed (open) water features in confines of outpatient suite
- (2) ☐ no covered fish tanks in other than public areas of outpatient suite

2.1-7.2.3 SURFACES

2.1-7.2.3.1 FLOORING & WALL BASES:

- (1) ☐ Flooring surfaces cleanable & wear-resistant for location
- (3) ☐ Smooth transitions provided between different flooring materials
- (4) ☐ Flooring surfaces including those on stairways are stable, firm & slip-resistant
- (5) ☐ Floors & wall bases of all areas subject to frequent wet cleaning are constructed of materials that are not physically affected by germicidal or other types of cleaning solutions
- (6)(a) ☐ Floors are monolithic & integral coved wall bases are at least 6" high & tightly sealed to wall in airborne infection isolation (AII) room & any anteroom
- ☐ check if not included in project

2.1-7.2.3.2 WALLS & WALL PROTECTION:

- (1)(a) ☐ Wall finishes are washable
- (1)(b) ☐ Wall finishes near plumbing fixtures are smooth, scrubbable & water-resistant
- (2) ☐ Wall surfaces in areas routinely subjected to wet spray or splatter (e.g. environmental services rooms) are monolithic or have sealed seams that are tight & smooth
- (4) ☐ Wall protection devices & corner guards durable & scrubbable

2.1-7.2.3.3 CEILINGS:

- (1) ☐ Ceilings provided in all areas except mechanical, electrical & communications equipment rooms
- (a) ☐ Ceilings cleanable with routine housekeeping equipment
- (b) ☐ Acoustic & lay-in ceilings where used do not create ledges or crevices
- 2.1-7.2.4.3 ☐ Privacy curtains in patient care areas are washable

2.1-8.2 HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS UTILITIES:

- Part 3/6.1
Part 3/6.1.1 Ventilation Upon Loss of Electrical Power:
- ☐ space ventilation & pressure relationship requirements of Table 8.1 are maintained for AII Rooms in event of loss of normal electrical power
- ☐ check if not included in project

Part 3/6.1.2 Heating & Cooling Sources:

- Part 3/6.1.2.1 ☐ heat sources & essential accessories provided in number & arrangement sufficient to accommodate facility needs (reserve capacity) even when any one of heat sources or essential accessories is not operating due to breakdown or routine maintenance

Part 3/6.1.2.2 Central cooling systems greater than 400 tons (1407 kW) peak cooling load

- ☐ check if not included in project
- ☐ number & arrangement of cooling sources & essential accessories is sufficient to support owner's facility operation plan upon breakdown or routine maintenance of any one of cooling sources

Part 3/6.2 AIR-HANDLING UNIT (AHU) DESIGN:

- Part 3/6.2.1 ☐ AHU casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance

Part 3/6.3 OUTDOOR AIR INTAKES & EXHAUST DISCHARGES:

Part 3/6.3.1 Outdoor Air Intakes:

- Part 3/6.3.1.1
- ___ located min. of 25'-0" from cooling towers & all exhaust & vent discharges
 - ___ outdoor air intakes located such that bottom of air intake is at least 6'-0" above grade
 - ___ air intakes located away from public access
 - ___ all intakes are designed to prevent entrainment of wind-driven rain

- Part 3/6.3.1.3
- ___ intakes on top of buildings
 - ☐ check if not included in project
 - ___ located with bottom of air intake min. of 3'-0" above roof level

- Part 3/6.3.1.4
- ___ intake in areaway
 - ☐ check if not included in project
 - ___ bottom of areaway air intake opening is at least 6'-0" above grade
 - ___ bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway

Part 3/6.3.2 Contaminated Exhaust Discharges:

- Part 3/6.3.2.1
- ☐ check if not included in project
 - ___ ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms)

- ___ exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building

- Part 3/6.3.2.2
- ___ exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10 feet above adjoining roof level
 - ___ exhaust discharge outlets from laboratory work area chemical fume hoods discharge with stack velocity of at least 2500 fpm

Part 3/6.4 FILTRATION:

- ___ One filter bank MERV 7

Part 3/6.5 HEATING & COOLING SYSTEMS:

- Part 3/6.5.3
- ___ Radiant heating systems
 - ☐ check if not included in project
 - ___ ceiling or wall panels with exposed cleanable surfaces or radiant floor heating are provided in AII room

Part 3/6.7 AIR DISTRIBUTION SYSTEMS:

- Part 3/6.7.1
- ___ Maintain pressure relationships required in tables 7.1 in all modes of HVAC system operation
 - ___ Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems
 - ___ Recovery rooms are served by fully ducted return or exhaust systems

Part 3/6.7.2 Air Distribution Devices:

- ___ supply air outlets comply with Table 6.7.2

Part 3/6.7.3 Smoke Barriers:

- ___ HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.

Part 3/6.8 ENERGY RECOVERY SYSTEMS:

- ☐ check if not included in project
- ___ Located upstream of Filter Bank No. 2
- Part 3/6.8.1 ___ AII room exhaust systems are not used for energy recovery
- Part 3/6.8.2 ___ Energy recovery systems with leakage potential
- Part 3/6.8.3 ☐ check if not included in project
- ___ arranged to minimize potential to transfer exhaust air directly back into supply airstream
- ___ designed to have no more than 5% of total supply airstream consisting of exhaust air

Part 3/7 SPACE VENTILATION:

- Part 3/7.1.a
- ___ Complies with Table 8.1
 - ___ Air movement is from clean to less-clean areas
 - Part 3/7.1.a.1 ___ Min. number of total air changes required for positive pressure rooms is provided by total supply airflow
 - Part 3/7.1.a.3 ___ Min. number of total air changes required for negative pressure rooms is provided by total exhaust airflow
 - Part 3/7.1.a.4 ___ Entire minimum outdoor air changes per hour required by Table 8.1 for each space meet filtration requirements of Section 6.4

- Part 3/7.1a.5 ☐ Air recirculation through room unit
☐ check if not included in project
☐ complies with Table 8.1
☐ room unit receive filtered & conditioned outdoor air
☐ serve only a single space
☐ provides min. MERV 6 filter
☐ located upstream of any cold surface so that all of air passing over cold surface is filtered

Part 3/7.2 **ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:**

- Part 3/7.2.1 Airborne Infection Isolation (AII) Rooms
☐ check if not included in project
☐ AII rooms have permanently installed device monitor differential air pressure between room & corridor
☐ Local visual means is provided to indicate whenever negative differential pressure is not maintained
☐ Air from AII room is exhausted directly to outdoors
☐ Exhaust air from AII rooms, associated anterooms & toilet rooms is discharged directly to outdoors without mixing with exhaust air from any other non-AII room or exhaust system
☐ Exhaust air grille or register in patient room is located directly above patient bed on ceiling or on wall near head of bed
☐ Anteroom
☐ check if not included in project
☐ AII room is at negative pressure with respect to anteroom
☐ Anteroom is at negative pressure with respect to corridor

2.1-8.3 **ELECTRICAL SYSTEMS**

2.1-8.3.2 **ELECTRICAL DISTRIBUTION & TRANSMISSION**

- 2.1-8.3.2.2 Panelboards:
(1) ☐ all panelboards accessible to health care tenants they serve
(2) ☐ panelboard serving critical branch circuits serve floors on which they are located
(3) ☐ panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below
(4) ☐ panelboards not located in exit enclosures or exit passageways

2.1-8.3.3 **POWER-GENERATING & -STORING EQUIPMENT**

- 2.1-8.3.3.1 ☐ Essential electrical system or emergency electrical power
(1) ☐ essential electrical system complies with NFPA 99
(2) ☐ emergency electrical power complies with NFPA 99

2.1-8.3.6 **ELECTRICAL RECEPTACLES**

- ☐ Receptacles in patient care areas are provided according to Table 2.1-1

2.1-8.4 **PLUMBING SYSTEMS**

- 2.1-8.4.2 Plumbing & Other Piping Systems:
2.1-8.4.2.1(3) ☐ no plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problem

2.1-8.4.2.5 **Heated Potable Water Distribution Systems:**

- (2) ☐ heated potable water distribution systems serving patient care areas are under constant recirculation
☐ non-recirculated fixture branch piping length max. 25'-0"
(3)(a) ☐ no installation of dead-end piping (except for empty risers mains & branches for future use)
(3)(c) ☐ any existing dead-end piping is removed
(3)(b) ☐ check if not included in project
(4)(a) ☐ water-heating system supplies water at following range of temperatures: 105–120°F

2.1-8.4.2.6 **Drainage Systems:**

- (1)(a) ☐ drainage piping installed above ceiling of or exposed in rooms listed below piping have special provisions (e.g. double wall containment piping) to protect space below from leakage & condensation
 - electronic data processing areas
 - electrical rooms
(1)(b) ☐ drip pan for drainage piping above ceiling of sensitive area
☐ check if not included in project
☐ accessible
☐ overflow drain with outlet located in normally occupied area

2.1-8.4.3 PLUMBING FIXTURES

2.1-8.4.3.1(1) ☐ Materials used for plumbing fixtures are non-absorptive & acid-resistant

2.1-8.4.3.2 Handwashing Station Sinks:

- (1) ☐ sinks are designed with basins that will reduce risk of splashing to areas where direct patient care is provided & medications are prepared
- (2) ☐ sink basins have nominal size of no less than 144 square inches
- ☐ sink basins have min. dimension 9 inches in width or length
- (3) ☐ sink basins are made of porcelain, stainless steel or solid-surface materials
- (5) ☐ water discharge point of faucets is at least 10" above bottom of basin
- (7) ☐ anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied
- (8) ☐ sinks used by staff, patients, & public have fittings that can be operated without using hands (may be single-lever or wrist blade devices)
- (a) ☐ blade handles
- ☐ check if not included in project
- ☐ at least 4 inches in length
- ☐ provide clearance required for operation
- (b) ☐ sensor-regulated water fixtures
- ☐ check if not included in project
- ☐ meet user need for temperature & length of time water flows
- ☐ designed to function at all times and during loss of normal power

2.1-8.4.3.5 Clinical Flushing-Rim Sinks:

- ☐ check if not included in project
- (1) ☐ trimmed with valves that can be operated without hands (may be single-lever or wrist blade devices)
- (a) ☐ handles are at least 6 in. long
- (b) ☐ integral trap wherein upper portion of water trap provides visible seal
- (2) ☐

2.1-8.7 ELEVATORS

- ☐ check if not included in project
- 2.1-8.7.3 Dimensions of Elevators Used for Transport of Outpatients on Gurneys:
- ☐ elevator cars have min. inside floor dimension of 5'-8" wide by 7'-9" deep
- 2.1-8.7.4 ☐ Elevators are equipped with two-way automatic level-maintaining device with accuracy of $\pm 1/4$ inch
- 2.1-8.7.5 Elevator Controls:
- 2.1-8.7.5.1 ☐ elevator call buttons & controls not activated by heat or smoke
- 2.1-8.7.5.2 ☐ light beams if used for operating door reopening devices without touch are used in combination with door-edge safety devices & are interconnected with system of smoke detectors
- 2.1-8.7.5.3 ☐ elevator controls, alarm buttons & telephones are accessible to wheelchair occupants & usable by the blind