

**MEMORANDUM**

**TO:** Donna Jerry, Senior Health Policy Analyst, Green Mountain Care Board

**FROM:** Emily Hawes, Commissioner, Department of Mental Health

**DATE:** July 20, 2021

**RE:** Docket No. GMCB-002-21con, Construction of Secure Residential Treatment Program for Individuals Requiring Residential Treatment Program Services for Mental Health Conditions.

Project Cost: \$21,900,521.

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Thank you for your questions dated July 16, 2021. Below please find our responses.

**1. Page 14 of 17: Flooring and Wall Bases, items 4 and 5.**

FGI checklist has been updated and resubmitted.

**2. Item 2.1-7.2.3.3.2, Walls and Wall Protections**

FGI checklist has been updated and resubmitted.

**3. Item 2.1-7.2.3.3.3, Ceilings**

FGI checklist has been updated and resubmitted.

**4. Fill in all missing information for items on pages 15, 16 and 17.**

FGI checklist has been updated and resubmitted.

**5. Item 2.2-2.12.4.3 Seclusion Room. Provide the reason(s) for requesting a waiver**



**for this requirement and explain how you will provide for a space in place of the seclusion room.**

While the original design included the ability of the proposed facility to do emergency involuntary procedures, and thus requiring the inclusion a seclusion room, the plans for the project changed during the legislative session as various committees took testimony, made additional requirements of the project, and allocated funding. This is reflected in Act 50 (2021), Section 3c, which specifically says “[n]either wing shall include a locked seclusion area, and the facility shall not use emergency involuntary procedures.”

**6. Item 2.2-7.2.2.10, Hand Rails. Provide the reason(s) for requesting a waiver for this requirement and explain how you will provide support for standing and mobility when needed by residents.**

Handrails are a requirement of hospitals. This proposed facility is not a hospital, but a transitional residential facility to be licensed as a Therapeutic Community Residence through the Department of Disabilities, Aging, and Independent Living. The facility is meant to mimic a home environment as closely as possible with the goal of preparing the resident to return to the community. Residents in need of mobility assistance would be outfitted as needed using treatment plans to meet their unique individual needs.



Emily Hawes, Commissioner, Department of Mental Health

On 7 / 20 / 2021, Emily Hawes appeared before me and swore the truth, accuracy and completeness of the foregoing.



Notary Public

My commission expires 1 / 31 / 2023



**COMPLIANCE CHECKLIST**

**Psychiatric Patient Care Unit**

The following checklist is intended to be used in the plan review applications for health care facilities. This checklist summarizes and references the applicable requirements from the 2018 Edition of the FGI Guidelines for Design and Construction of Hospitals specific to section 2.5 Psychiatric Hospitals.

1.

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

**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.

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

Facility Name: DMH RR

CoN Project Number: (if applicable)

Facility Address: 26 Woodside Drive

Patient Care Unit Bed Complements:

Current = 0                      Proposed = 16 beds

Satellite Name: (if applicable)

Building/Floor Location:

Satellite Address: (if applicable)

Submission Dates:

Initial Date:

Revision Date:

Project Description:

**Architectural Requirements**

**Building Systems Requirements**

2.2-2.12 **PSYCHIATRIC PATIENT CARE UNIT**

- 2.2-2.12.1.2 Environment of Care:  
X facility provides therapeutic environment appropriate for planned treatment programs
- 2.2-2.12.1.3 Safety & Security:  
1.2-4.6.2.2(1) X patient environment designed to protect the privacy, dignity, & health of patients  
X patient environment designed to address the potential risks related to patient elopement & harm to self, others, & the environment
- 2.2-2.12.1.4 Shared Facilities:  
NA adult & pediatric patient populations are kept separate (nurse stations or support areas may be shared)

2.2-2.12.2 **PSYCHIATRIC PATIENT ROOM**

2.5-2.2.2.1 Capacity:  
\_\_\_ maximum room capacity of two patients

- 2.5-2.2.2.2 Space Requirements:  
(1) Single-Patient Rooms:  
 check if not included in project  
\_\_\_ min. clear floor area 100 sf
- (2) Multiple-Patient Rooms:  
X check if not included in project  
\_\_\_ min. clear floor area 80 sf per bed

- Ventilation:  
X Min. 4 air changes per hour Table 7.1
- Lighting: 2.1-8.3.4.3(1)  
X General lighting  
X Reading light for each patient bed
- X controls accessible to (a) patients in bed
- X Night-light located in each (b)

finished floor

- 2.5-2.2.2.3 Windows in Patient Rooms:  
2.1-7.2.2.5(1) X each patient room provided with natural light by means of window to outside
- 2.1-7.2.2.5(2) X operable windows in patient rooms  
 check if not included in project  
X window operation is limited with either stop limit/restrictor hardware or open guard/screen  
X prevents passage of 4-inch diameter sphere through opening  
X insect screens
- 2.1-7.2.2.6  
2.1-7.2.2.5(3) (a) X min. net glazed area be no less than 8% of required min. clear floor area
- (b) X max. 36" windowsill height above

- no central control of night-lights  
outside room
- night-light illuminates path from  
room entrance to bedside
- night-light illuminates path between  
bed & toiletrroom

**Architectural Requirements**

**Building Systems Requirements**

- 2.5-2.2.2.6 (1)  Patient toilet room
  - each patient has access to toilet room without having to enter corridor
  - or**
  - no direct access to toilet room in specific patient bedrooms where use of corridor access is part of written Clinical Risk Assessment & Management Program
  - copy of Clinical Risk Assessment & Management Program is attached to Project Narrative
- (2)  toilet room serve no more than 2 patient bedrooms & no more than 4 patients
- (3)  toilet & handwashing station
- (4) Toilet Room Doors:
  - (a)  keyed locks that allow staff to control access to toilet room
    - check if not included in project (only if not required by safety risk assessment)
  - (b)  swing-type door
    - check if not included in project
    - door to toilet room swings outward or is double-acting
- (5)(a) ADA Compliant Toilet Rooms:
  - thresholds designed to facilitate use & to prevent tipping of wheelchairs & other portable wheeled equipment by patients & staff
- (5)(b)  grab bars designed to facilitate use & to be ligature-resistant
- (5)(c)  entry door provides space for health care providers to transfer patients to toilet using portable mechanical lift

- Ventilation:
  - Min. 10 air changes per hour Table 7.1
  - Exhaust
  - Negative pressure
  - No recirculating room units

- 2.5-2.2.2.7 Patient Bathing Facilities:
  - bathtub or shower provided in patient care unit for each 6 beds not otherwise served by bathing facilities at patient bedrooms

- Ventilation:
  - Min. 10 air changes per hour Table 7.1
  - Exhaust
  - Negative pressure
  - No recirculating room units

- 2.5-2.2.2.8  Patient storage
  - separate wardrobe locker or closet for each patient
  - (1)  shelves for folded garments instead of arrangements for hanging garments
  - (2)  storage for daily change of clothes for seven days

- 2.2-2.12.4.1 **ELECTROCONVULSIVE THERAPY (ECT)**

check if not included in project

- 2.5-3.4.2.2  ECT treatment room

(1)

(2)

- Space Requirements:
  - min. clear floor area 200 sf
  - min. clear dimension of 14'-0"
  - handwashing station

**Architectural Requirements**

\_\_\_\_ Emergency power lighting  
**Building Systems Requirements**

**Architectural Requirements**

**Building Systems Requirements**

2.2-2.12.4.3

**SECLUSION ROOM**

**W** Designed for short-term occupancy

2.1-2.4.3.1

- (1) Capacity:
  - (a) \_\_\_ each room for only one patient
  - (b) \_\_\_ at least one seclusion room for each 24 beds or fewer & for each major fraction thereof on each psychiatric unit
  - (c) \_\_\_ facility has more than one psychiatric patient care unit
    - check if not included in project
    - \_\_\_ number of seclusion rooms is function of total number of psychiatric beds in facility
- (2) (a) \_\_\_ Located to permit observation from nurse station

2.1-2.4.3.2

Space Requirements:

- (1) \_\_\_ min. wall length 7'-0"
- \_\_\_ max. wall length 11'-0"
- (2) \_\_\_ room used for restraining patients
  - \_\_\_ min. clear floor area 80 sf

**or**

  - \_\_\_ room not used for restraining patients
  - \_\_\_ min. clear floor area 60 sf

Ventilation:

\_\_\_ Min. 4 air changes per hour      Table 7.1

2.1-2.4.3.1(3)

- \_\_\_ Anteroom
  - \_\_\_ provides access to seclusion room & toilet room

Nurse Call System:

\_\_\_ Staff assistance station      Table 2.1-2  
 \_\_\_ Emergency call station      + Errata

2.1-2.4.3.9

Special Design Elements:

- \_\_\_ designed & constructed to avoid features that enable patient hiding, escape, injury or suicide
- (1)(a) \_\_\_ walls ceiling & floor designed to withstand direct & forceful impact
- (1)(b) \_\_\_ min. ceiling height 9'-0"
- (1)(c) \_\_\_ door to seclusion room swings out
- 2.1-7.2.2.3(2)
- (a) Door Opening:
  - \_\_\_ min. 45.5" clear door width
  - \_\_\_ min. 83.5" clear door height
  - \_\_\_ doors permit staff observation of patient through view panel
  - \_\_\_ provisions for patient privacy
  - \_\_\_ view panel made of fixed glazing with polycarbonate or laminate on inside of glazing
- (1)(d) \_\_\_ seclusion rooms do not contain outside corners or edges
- (2)(a) \_\_\_ all items including lighting fixtures, sprinkler heads, HVAC grilles & surveillance cameras tamper-resistant & designed to prevent injury to patient
- (2)(b) \_\_\_ no electrical switches or receptacles



**Architectural Requirements**

**Building Systems Requirements**

- 2.2-2.12.8 **SUPPORT AREAS FOR PSYCHIATRIC PATIENT CARE UNIT**
- 2.5-2.2.8.1(1) X Support areas listed are located in or readily accessible\* to each patient care unit unless otherwise noted
- 2.5-2.2.8.1(2) X Support areas provided on each patient care floor (may serve more than one unit)
- 2.5-2.2.8.2 X Administrative center or nurse station
- 2.1-2.8.2.1(1) \_\_\_\_\_space for counters
- 2.1-2.8.2.1(2) \_\_\_\_\_handwashing station next to or directly accessible\*
- or**
- X hand sanitation dispenser next to or directly accessible\*
- 2.5-2.2.8.3 X Documentation area  
 \_\_\_\_\_ separate charting area with provisions for acoustic & patient file privacy
- 2.5-2.2.8.4 X Office for staff
- 2.5-2.2.8.5 X Multipurpose room  
X location either in psychiatric patient care unit or immediately accessible\*

Nurse Call System:  
 \_\_\_\_\_ Nurse master station Table 2.1-2

- 2.1-2.8.8.2(1) X medication preparation room
- (a) X under visual control of nursing staff
- (b) X work counter  
 \_\_\_\_\_ handwashing station  
 \_\_\_\_\_ lockable refrigerator  
 \_\_\_\_\_ locked storage for controlled drugs  
 \_\_\_\_\_ sharps containers  
 check if not included in project
- (c) \_\_\_\_\_ self-contained medication-dispensing unit  
 check if not included in project  
 \_\_\_\_\_ room designed with space to prepare medications
- or**

Ventilation:  
X Min. 4 air changes per hour Table 7.1

Lighting:  
X Task lighting 2.1-2.8.8.1(2)(d)

**Architectural Requirements**

**Building Systems Requirements**

- 2.1-2.8.8.2(2) \_\_\_\_\_ automated medication-dispensing unit
- (a) \_\_\_\_\_ located at nurse station, in clean workroom or in alcove
- (c) \_\_\_\_\_ handwashing station located next to stationary medication-dispensing units or stations
- 2.5-2.2.8.9 (1) Nourishment Area:  
 \_\_\_\_\_ nourishment station
- or**

Lighting:  
 \_\_\_\_\_ Task lighting 2.1-2.8.8.1(2)(d)

- (2)  kitchenette designed for patient use  
 staff control of heating & cooking devices
- or**
- (3)  kitchen area
- (a)  handwashing station
- (b)  secured storage
- (c)  refrigerator
- (d)  facilities for meal preparation and/or service

2.5-2.2.8.10  Ice-making equipment

2.5-2.2.8.11  Clean workroom or clean supply room

- 2.1-2.8.11.2  clean workroom
- used for preparing patient care items
  - (1)  work counter
  - (2)  handwashing station
  - (3)  storage facilities for clean & sterile supplies

Ventilation:  
 Min. 4 air changes per hour Table 7.1  
 Positive pressure

- 2.1-2.8.11.3 **or**
- clean supply room
  - used only for storage & holding as part of system for distribution of clean & sterile supplies

Ventilation:  
 Min. 4 air changes per hour Table 7.1  
 Positive pressure

2.5-2.2.8.12  Soiled workroom or soiled holding room

- 2.1-2.8.12.2  soiled workroom
- (1)(a)  handwashing station
  - (1)(b)  flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture
  - (1)(c)  work counter
  - (1)(d)  space for separate covered containers for waste & soiled linen
  - (2)  fluid management system is used  
 check if not included in project
  - (a)  electrical & plumbing connections that meet manufacturer requirements
  - (b)  space for docking station

Ventilation:  
 Min. 10 air changes per hour Table 7.1  
 Exhaust  
 Negative pressure  
 No recirculating room units

**or**

**Architectural Requirements**

**Building Systems Requirements**

- 2.1-2.8.12.3  soiled holding room
- (1)  handwashing station or hand sanitation station
- (2)  space for separate covered containers for waste & soiled linen

- Ventilation:
- Min. 10 air changes per hour Table 7.1
  - Exhaust
  - Negative pressure
  - No recirculating room units

- 2.5-2.2.8.13(1)  Clean linen storage
- 2.1-2.8.13.1(1)  stored in clean workroom
- or**
- separate closet
- or**
- covered cart distribution system on each floor
- 2.1-2.8.13.1(2)  storage of clean linen carts in designated corridor alcoves, clean workroom or closets

2.5-2.2.8.13(3)  Wheelchair storage space

- 2.1-2.8.13.4  Emergency equipment storage
- (1)  each patient care unit has at least one emergency equipment storage location
- (2)  provided under visual observation of staff
- (3)  storage locations in corridors do not encroach on min. required corridor width

2.5-2.2.8.13(5)  Administrative supplies storage

- 2.5-2.2.8.14(1)  Environmental services room
- 2.5-2.2.8.14(2)  located outside patient care unit on same floor
- or**
- located in patient care unit
- designed to minimize risk to patient population

- 2.1-2.8.14.2
- (1)  service sink or floor-mounted mop sink
- (2)  provisions for storage of supplies & housekeeping equipment
- (3)  handwashing station
- or**
- hand sanitation station

- Ventilation:
- Min. 10 air changes per hour Table 7.1
  - Exhaust
  - Negative pressure
  - No recirculating room units

- 2.5-2.2.8.16  Consultation rooms
- (1)  min. clear floor area of 100 sf
- one consultation room for each 12 psychiatric beds or fewer
- (2)  designed for acoustic & visual privacy
- sound insulation per See Table 1.2-6
- (3)  dedicated rooms
- or**
- combined with visitor room

2.5-2.2.8.17  Conference & treatment planning room

**Architectural Requirements**

**Building Systems Requirements**

- 2.5-2.2.8.18  Space for group therapy
  - serves more than 12 patients

**or**

  - serves no more than 12 patients
    - combined with quiet activity space
    - at least 225 sf of enclosed private space is available for group therapy activities

2.2-2.12.9 **SUPPORT AREAS FOR STAFF**

- 2.5-2.2.9.1  Staff lounge facilities
- 2.5-2.2.9.2  Staff toilet room

- Ventilation:
- Min. 10 air changes per hour Table 7.1
  - Exhaust
  - Negative pressure
  - No recirculating room units

- 2.5-2.2.9.3  Staff storage locations
  - securable closets or cabinet compartments for personal effects of nursing personnel
  - immediately accessible\* to administrative center or nurse station

2.2-2.12.10 **SUPPORT AREAS FOR PATIENTS & VISITORS**

- 2.5-2.2.10.1  Visitor room
  - min. floor area of 100 sf
- 2.5-2.2.10.2 Social Spaces:
  - (1)  at least two separate social spaces one appropriate for noisy activities & one for quiet activities
  - combined area of these spaces min. 25 sf per patient
  - at least 120 sf for each of two spaces

- (2)(a)  Dining area
- (2)(b)  dedicated space
  - 20 sf per patient provided for dining

**or**

  - social space used for dining activities
  - additional 15 sf per patient (total 40 sf for two social spaces)

- 2.5-2.2.10.3  patient laundry facilities
  - equipped with washer & dryer

- 2.5-2.2.10.4  Patient storage facilities
  - (1)  staff-controlled secured storage area provided for patients effects determined to be potentially harmful (may be combined with clean workroom or clean supply room)
  - (2)

- 2.5-2.2.10.5  Space for locked storage of visitor belongings

**\*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  
Specific to Psychiatric Patient Care Units

- 2.5-7.2.2 **ARCHITECTURAL DETAILS**  
**CORRIDOR WIDTH:**
- 2.1-7.2.2.1  
NFPA 101,  
18.2.3.4  Aisles, corridors & ramps required for exit access for an acute patient care unit are not less than 8'-0" in clear & unobstructed width  
 check if not included in project
- or**
- Detailed code review incorporated in Project Narrative
- 2.1-7.2.2.1  
NFPA 101,  
18.2.3.5  Aisles, corridors & ramps required for exit access in a psychiatric unit are not less than 6'-0" in clear & unobstructed width
- or**
- Detailed code review incorporated in Project Narrative
- Aisles, corridors & ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear & unobstructed width
- or**
- Detailed code review incorporated in Project Narrative
- 2.5-7.2.2.3 **DOORS & DOOR HARDWARE:**
- (2)  Door openings for patient use have min. clear width of 34 inches
- (3)  Doors to private patient toilet rooms or bathing facilities swing out, are double-acting with emergency strike or have other barricade-resistant provisions to allow for staff emergency access

- (4) **Door Closers:**  
X check if not included in project  
 door closer devices required for patient care reasons on patient bedroom door  
 mortised type or surface mounted on public side of door rather than private patient side of door
- (5) **Door Hinges:**
- (a)  Door hinges be designed to minimize points for hanging (i.e. cut hinge type)
- (b)  Door hinges consistent with level of care for patient
- (6) **Fasteners:**  
 all hardware have tamper-resistant fasteners
- 2.5-7.2.2.5 **WINDOWS:**
- (1)  Windows located in areas used by patients are designed to limit opportunities for patients to seriously harm themselves
- (a)  Glass mirrors fabricated with polycarbonate or laminate on inside of glazing
- Glazing meets or exceeds requirements for Class 1.4 per ASTM F1233
- (b)  All glazing for borrowed lights fabricated with polycarbonate, laminate or tempered glass
- (2) **Window Assembly: (includes anchorage, frame & hardware)**
- (a)  designed to resist impact loads of 2,000 foot-pounds applied from inside
- (b)  tested in accordance with AAMA 501.8
- (3)  Min. net glazed area of no less than 8% of floor area of each social & dining space

2.5-7.2.2.6	<b>PATIENT TOILET/BATHING ROOMS:</b> <u>X</u> hardware & accessories designed to prevent injury & suicide	2.5-7.2.4.2	<u>X</u> no clothing rods <u>X</u> robe or towel hooks designed for ligature resistance <input type="checkbox"/> check if <u>not</u> included in project
(1)	<u>X</u> grab bars anchored to sustain concentrated load of 250 pounds	2.5-7.2.4.3	<u>X</u> Window treatments in patient areas <input type="checkbox"/> check if <u>not</u> included in project <u>X</u> designed without accessible anchor points or cords
(2)(a)	<u>X</u> no towel bars		
(2)(b)	<u>X</u> no shower curtain rods		
(2)(c)	<u>X</u> no lever handles (except where specifically designed anti-ligature lever handle is used)		
2.5-7.2.2.7	<b>FIRE SPRINKLERS &amp; OTHER PROTRUSIONS:</b>	2.1-8.2	<b>HEATING VENTILATION &amp; AIR-CONDITIONING (HVAC) SYSTEMS</b>
(1)	<u>X</u> Fire sprinklers in patient areas are designed to minimize patient tampering	Part 3/7.6	<u>X</u> Exposed equipment located in patient areas have enclosures with rounded corners & tamper-resistant fasteners <u>X</u> HVAC equipment arranged so that maintenance personnel are not required to enter patient care spaces for service (except for any room recirculating units)
(2)	<u>X</u> In patient toilet rooms & bathing facilities light fixtures, fire sprinklers, electrical receptacles & other appurtenances are tamper/ligature-resistant types		
2.5-7.2.3	<b>SURFACES:</b>	2.5-8.3	<b>ELECTRICAL SYSTEMS</b>
2.5-7.2.3.3	Ceilings in Seclusion Rooms, Patient Bedrooms, Toilet Rooms & Bathing Facilities:	2.5-8.3.4	<b>LIGHTING:</b>
(1)	<input type="checkbox"/> monolithic ceilings	2.5-8.3.4.1	<u>X</u> General luminaires tamper-resistant
(a)	<input type="checkbox"/> ceiling secured from patient access	2.5-8.3.4.2(1)	<u>X</u> Patient bedrooms have general lighting & night lighting <u>X</u> at least one nightlight fixture in each bedroom is controlled at room entrance
(b)	<input type="checkbox"/> mechanical electrical & plumbing systems other than terminal elements serving room are concealed above ceiling		
(2)	<u>X</u> Ventilation grilles in seclusion rooms, bedrooms, patient toilet rooms & bathing facilities are designed to prevent them from being used as ligature points	2.5-8.3.6	<b>RECEPTACLES:</b>
(3)	<u>X</u> Ceiling access doors are without gaps & secured with keyed lock and/or tamper-resistant fasteners	2.5-8.3.6.1	<u>X</u> Receptacles in patient bedrooms <input type="checkbox"/> check if <u>not</u> included in project <u>X</u> tamper-resistant <u>X</u> controlled by single switch under control of staff outside room <input type="checkbox"/> equipped with ground-fault circuit interrupter devices <b>or</b> <input type="checkbox"/> on circuit protected by ground-fault circuit breaker
2.1-8.1.1	<u>X</u> Ceiling & air distribution devices, lighting fixtures, sprinkler heads & other appurtenances are of tamper- & ligature-resistant type in patient rooms, toilet rooms & seclusion rooms	2.5-8.4	<b>PLUMBING SYSTEMS</b>
2.5-7.2.4	<b>FURNISHINGS:</b>	2.5-8.4.2	<u>X</u> Shower heads of flush-mounted design minimizes hanging appendages
2.5-7.2.4.1(1)	<u>X</u> Built-in furnishings constructed to minimize potential for injury, suicide or elopement	2.5-8.5.1	<b>CALL SYSTEMS</b>
2.5-7.2.4.1(2)	<input type="checkbox"/> no doors or drawers		<u>X</u> check if patient use call system is <u>not</u> included in project
2.5-7.2.4.1(3)	<u>X</u> open shelves fixed with tamper-resistant hardware	2.5-8.5.1.1(1)	<u>X</u> Staff response call systems low voltage with limited current

- 2.5-8.5.1.1(2)  Controls to limit unauthorized use  
 check if not included in project
- 2.5-8.5.1.2
- (1)  Provisions for easy removal or covering of call buttons
- (2)  All hardware have tamper-resistant fasteners
- (3) Signal Location:
- (a)  calls activate visible signal in corridor at patient room door & at annunciator panel at nurse station
- (b)  in multi-corridor units additional visible signals are installed at corridor intersections
- (4)  Call cords or strings max. 6 inches
- 2.5-8.5.1.3  Emergency call system

- (1)  signal activated by staff will initiate visible & audible signal distinct from regular nurse call system
- (2)  signal activates annunciator panel at nurse station & distinct visible signal in corridor at door to room where signal was initiated

2.5-8.6 **ELECTRONIC SAFETY & SECURITY SYSTEMS**

- 2.5-8.6.1 Fire Alarm System:
  - fire extinguisher cabinets & fire alarm pull stations located in staff areas
  - or**
  - secured in patient-accessible locations

2.5-8.7.2 **ELEVATORS**

- 2.5-8.7.2.5(2)  Elevator call buttons & car buttons are key-controlled  
 check if not included in project (only if allowed by safety risk assessment)

**General Architectural Details & MEP Requirements**

- 2.1-7.2.2 **ARCHITECTURAL DETAILS**
- 2.1-7.2.2.2 **CEILING HEIGHT:**
- (1)  Min ceiling height 7'-6" in corridors & in normally unoccupied spaces
- (3)  Min. height 7'-6" above floor of suspended tracks, rails & pipes located in traffic path for patients in beds & on stretchers
- 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
- (b)  bathing area or toilet room opens onto public area or corridor  
 check if not included in project  
 visual privacy is maintained
- 2.1-7.2.2.5 **WINDOWS IN PATIENT ROOMS:**

- 2.1-7.2.2.5(1)  Each patient room provided with natural light by means of window to outside
- 2.1-7.2.2.5(2)  Operable windows in patient rooms  
 check if not included in project  
 window operation is limited with either stop limit/restrictor hardware or open guard/screen  
 prevents passage of 4-inch diameter sphere through opening
- 2.1-7.2.2.6  insect screens
- 2.1-7.2.2.5(3) Window Size In Patient Rooms:
- (a)  minimum net glazed area be no less than 8% of required min. clear floor area of room served
- (b)  maximum 36 inches windowsill height above finished floor
- 2.1-7.2.2.8 **HANDWASHING STATIONS:**



- (3)(a)  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
  - (a)  hand-drying device does not require hands to contact dispenser
  - (b)  hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing
- (6)  Liquid or foam soap dispensers
- 2.1-7.2.2.10 **HANDRAILS:**
  - (1)  Handrails installed on both sides of patient use corridors
  - (3)  Rail ends return to wall or floor
  - (4)  Handrail gripping surfaces & fasteners are smooth (free of sharp or abrasive elements) with 1/8-inch min. radius
  - (5)  Handrails have eased edges & corners
  - (6)  Handrail finishes are cleanable
  - Handrails are ligature-resistant
- 2.1-7.2.2.12 **NOISE CONTROL:**
  - (1)  Recreation rooms, exercise rooms equipment rooms & similar spaces where impact noises may be generated are not located directly over patient bed areas
  - or**
  - Special provisions are made to minimize impact noise
- (2)  Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas
- 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 soiled workrooms, toilet rooms & other areas subject to frequent wet cleaning are constructed of materials that are not physically affected by germicidal or other types of cleaning solutions
- 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 are monolithic or have sealed seams that are tight & smooth
- 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
- 2.1-8.2 **HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS**
- Part 3/6.1 **UTILITIES:**
  - Part 3/6.1.2 Heating & Cooling Sources:
    - Part 3/6.1.2.1  heat sources sufficient for facility needs (reserve capacity) even when any one of heat sources or essential accessories is not operating due to breakdown or routine maintenance
    - capacity of remaining source or sources is sufficient to provide for domestic hot water & to provide heating for inpatient rooms
  - 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 facility operation plan upon breakdown or routine maintenance of any one of cooling sources



- 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 ft 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
- Part 3/6.3.1.3  intakes on top of buildings
- check if not included in project
- located with bottom of air intake min. 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 3/6.4 **FILTRATION:**
- Two filter banks for inpatient care (see Table 6.4)
- Filter Bank No. 1: MERV 7
- Filter Bank No. 2: MERV 14
- Each filter bank with efficiency of greater than MERV 12 is provided with differential pressure measuring device to indicate when filter needs to be changed
- Part 3/6.4.1  Filter Bank No. 1 is placed upstream of heating & cooling coils
- Part 3/6.4.2  Filter Bank No. 2 is placed downstream of all wet-air cooling coils & supply fan
- Part 3/6.7 **AIR DISTRIBUTION SYSTEMS:**
- Part 3/6.7.1  pressure relationships required in tables 7.1 maintained 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
- Inpatient facilities 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
- Part 3/6.8.1  Located upstream of Filter Bank No. 2
- Part 3/6.8.3  Energy recovery systems with leakage potential
- 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  Spaces ventilated according to Table 7.1
- Part 3/7.1.a.1  Air movement is from clean to less-clean areas
- Part 3/7.1.a.5  Air recirculation through room units
- check if not included in project
- comply with Table 7.1
- room units receive filtered & conditioned outdoor air
- provide min. MERV 6 filter located upstream of any cold surface so that all of airpassing over cold surface is filtered
- 2.1-8.3 **ELECTRICAL SYSTEMS**
- 2.1-8.3.2.2 **Panelboards:**
- (1)  panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below
- (2)  panelboard critical branch circuits serve floors on which they are located
- (3)  panelboards not located in exit enclosures or exit passageways
- 2.1-8.3.4 **LIGHTING:**
- 2.1-8.3.4.2  Luminaires in wet areas (e.g. kitchens showers) have smooth cleanable shatter-resistant lenses & no exposed lamps

- 2.1-8.3.4.3(1) X Reading light for each bed
  - (a)      incandescent & halogen lights
    - check if not included in project
    - X placed or shielded to protect patient from injury
    - X light source covered by diffuser or lens
- 2.1-8.3.4.3(2) X Patient care unit corridors have general illumination with provisions for reducing light levels at night
- 2.1-8.3.5 **ELECTRICAL EQUIPMENT:**
- 2.1-8.3.5.1      Handwashing sinks that depends on building electrical service for operation are connected to essential electrical system
  - check if not included in project
- 2.1-8.3.6 **ELECTRICAL RECEPTACLES:**
- 2.1-8.3.6.1 Receptacles In Corridors:
  - (1) X duplex-grounded receptacles for general use installed 50'-0" apart or less in all corridors
  - X duplex-grounded receptacles for general use installed within 25'-0" of corridor ends
  - (2) X receptacles in corridors are of tamper-resistant type
- 2.1-8.3.6.3 Essential Electrical System Receptacles:
  - (1)      cover plates distinctively colored or marked for identification
  - (2) X same color is used throughout facility
- 2.1-8.4 **PLUMBING SYSTEMS**
- 2.1-8.4.2 Plumbing & Other Piping Systems:
- 2.1-8.4.2.1(3) X 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) X heated potable water distribution systems serving patient care areas are under constant recirculation
  - non-recirculated fixture branch piping max. length 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) X water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4

- 2.1-8.4.2.6 Drainage Systems:
  - (1)(a)      drainage piping installed above ceiling of or exposed in electronic data processing areas & electric closets
    - check if not included in project
    - special provisions to protect space below from leakage & condensation
  - (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) X Materials used for plumbing fixtures are non-absorptive & acid-resistant
- 2.1-8.4.3.2 Handwashing Station Sinks:
  - (2) X sink basins have nominal size of no less than 144 square inches
  - X sink basins have min. dimension 9 inches in width or length
  - (3) X sink basins are made of porcelain, stainless steel or solid-surface materials
  - (5) X water discharge point min. 10" above bottom of basin
  - (7) X anchored to resist so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied
  - (8) X sinks used by medical staff, patients & public have fittings that can be operated without using hands (may be single-lever or wrist blade)
    - (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
      - X meet user need for temperature & length of time water flows

- 2.1-8.4.3.3 Showers & Tubs:
  - (1)  nonslip surfaces
- 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

- 2.1-8.6.2 **ELECTRONIC SURVEILLANCE SYSTEMS**
  - check if not included in project
- 2.1-8.6.2.2  Monitoring devices are located so they are not readily observable by general public or patients
- 2.1-8.6.2.3  Electronic surveillance systems receive power from essential electrical system