COMPLIANCE CHECKLIST

IP3: Intermediate Care Unit

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 2014 Edition of the FGI Guidelines for Design and Construction of Hospitals and 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:

- State Building Code (780 CMR)
- Joint Commission on the Accreditation of Health Care Organizations
- CDC Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health Care Facilities
- USP 797
- 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 Part II of the 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 symbols, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the symbol “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.

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.

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).

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, and waste anesthesia gas disposal outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", & "WAGD".
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.

Facility Name: __________________________

Nursing Unit Bed Complements: Current = ______ Proposed = ______

Building/Floor Location: __________________________

Submission Dates: Initial Date: __________________________

Revision Date: __________________________

MDPH/DHCFLC 05/15 IP3
2.2-2.5  INTERMEDIATE CARE UNIT

2.2-2.5.1.2 (Adult step-down units or chronic ventilator respiratory care units; may be designated part of another unit)

2.2-2.5.2  PATIENT ROOM

2.2-2.5.2.1 Capacity:
- New Patient Room:
  - 1 bed per room
- Existing Patient Room:
  - maximum room capacity no more than present capacity, with max. 4 patients in each room

2.2-2.5.2.2 Space Requirements:
- single-bed rooms
  - check if not included in project
  - min. clear floor area 150 sf
  - min. clearance 4'-0" between sides of bed & any wall or any other fixed obstruction
  - min. clearance 4'-0" between foot of bed & any wall or any other fixed obstruction

- multiple bed rooms
  - check if not included in project
  - min. clear floor area 120 sf per bed
  - min. clearance 4'-0" between sides of bed & any wall or any other fixed obstruction
  - min. 4'-0" clearance at foot of each bed for passage of beds & equipment

Ventilation*:
- Min. 6 air changes/hour

Power*:
- Min. 12 receptacles
- Min. 2 receptacles at each side of the head of the bed
- Min. 2 receptacles on all other walls (may be omitted on exterior wall)

Nurse Call System*:
- Patient station
- Emergency staff assistance station

Medical Gases*:
- 2 OX, 2 VAC, 1 MA for each bed

*Common requirements for all patient rooms

Glossary  Bed Size for Determining Clearances:
- 40" wide by 96" long
- specifications of beds to be installed are attached to checklist

2.1-2.2.4  Patient Privacy:
2.1-2.2.4.1 Means to provide visual privacy from observation by other patients & visitors available for each patient

2.1-2.2.4.2 Design for privacy does not restrict patient access to entrance, handwashing station, or toilet

2.1-2.2.5  Handwashing Station in Patient Room:
2.1-2.2.5.1 Provided in patient room in addition to that in toilet room

(1) Handwashing station adjacent* to entrance to patient room for use by health care personnel & others
### Architectural Requirements

**Multi-Patient Rooms:**
- [ ] check if not included in project

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.2.6</td>
<td>Patient toilet room</td>
</tr>
<tr>
<td>2.1-2.2.6.2</td>
<td>serves no more than one patient room</td>
</tr>
<tr>
<td></td>
<td>serves no more than 2 patients</td>
</tr>
<tr>
<td>2.1-2.2.6.3</td>
<td>(1) toilet</td>
</tr>
<tr>
<td></td>
<td>(2) handwashing station</td>
</tr>
<tr>
<td></td>
<td>(3) bedpan washer</td>
</tr>
<tr>
<td>2.2-2.2.7</td>
<td>Patient bathing facilities</td>
</tr>
<tr>
<td></td>
<td>(1) access to bathing facilities in toilet room</td>
</tr>
<tr>
<td></td>
<td>directly accessed from each patient room or in central bathing facility</td>
</tr>
<tr>
<td></td>
<td>central bathing facilities</td>
</tr>
<tr>
<td></td>
<td>(a) check if not included in project</td>
</tr>
<tr>
<td></td>
<td>(only if each patient room has direct access to adjoining shower or bathtub)</td>
</tr>
<tr>
<td></td>
<td>(b) each bathtub or shower in individual room or enclosure that provides privacy for bathing, drying &amp; dressing</td>
</tr>
<tr>
<td></td>
<td>at least 1 central bathing facility with shower or bathtub for each 12 beds without such facilities</td>
</tr>
<tr>
<td></td>
<td>(c) toilet in separate enclosure</td>
</tr>
<tr>
<td></td>
<td>handwashing sink</td>
</tr>
<tr>
<td></td>
<td>storage for soap &amp; towels</td>
</tr>
<tr>
<td></td>
<td>(3) mobile lifts, shower gurney devices, wheelchairs &amp; other portable wheeled equipment are used</td>
</tr>
<tr>
<td></td>
<td>check if not included in project</td>
</tr>
<tr>
<td></td>
<td>(a) doorways designed to allow entry of portable/mobile mechanical lifts &amp; shower gurney devices</td>
</tr>
<tr>
<td></td>
<td>(b) thresholds designed to facilitate use &amp; prevent tipping of wheelchairs &amp; other portable wheeled equipment</td>
</tr>
<tr>
<td></td>
<td>(c) patient shower rooms designed to allow entry of portable/mobile mechanical lifts &amp; shower gurney devices</td>
</tr>
<tr>
<td></td>
<td>(d) floor drain grates designed to facilitate use &amp; prevent tipping of wheelchairs &amp; other portable wheeled equipment used by patients &amp; staff</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

**Ventilation:**
- [ ] Min. 10 air changes per hour | Table 7.1
- [ ] Exhaust
- [ ] Min. 10 air changes per hour
- [ ] Exhaust
- [ ] Negative pressure

### Patient Storage:
- [ ] separate wardrobe, locker, or closet suitable for garments & for storing personal effects
## Architectural Requirements

### SPECIAL PATIENT CARE ROOMS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2-2.5.4.2</td>
<td>Airborne infection isolation (AII) room</td>
</tr>
<tr>
<td>(1)</td>
<td>access to at least one AII room unless elsewhere in facility</td>
</tr>
<tr>
<td>(2)</td>
<td>number of AII rooms determined on basis of an ICRA (included in Project Narrative)</td>
</tr>
</tbody>
</table>

### AIRBORNE INFECTION ISOLATION (AII) ROOM

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.4.2.2</td>
<td>Single-bed room</td>
</tr>
<tr>
<td>(1)</td>
<td>Provision made for personal protective equipment storage at entrance to room</td>
</tr>
<tr>
<td>(2)</td>
<td>Handwashing station in each patient room</td>
</tr>
<tr>
<td>(3)</td>
<td>Monolithic floors with integral coved 6” high wall base</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.4.2.3</td>
<td>Anteroom</td>
</tr>
<tr>
<td>(1)</td>
<td>For persons to don personal protective equipment before entering patient room</td>
</tr>
<tr>
<td>(2)</td>
<td>All doors to anteroom have self-closing devices</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.4.2.4</td>
<td>Self-closing devices on all room exit doors</td>
</tr>
<tr>
<td>(c)</td>
<td>Doors have edge seals</td>
</tr>
</tbody>
</table>

## Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation:</td>
<td>Min. 12 air changes per hour</td>
</tr>
<tr>
<td>Exhaust:</td>
<td>Negative pressure</td>
</tr>
<tr>
<td>No recirculating room units</td>
<td></td>
</tr>
<tr>
<td>Space ventilation &amp; pressure relationship maintained in event of loss of normal electrical power</td>
<td></td>
</tr>
<tr>
<td>Exhaust air from AII rooms, associated anterooms &amp; toilet rooms discharged directly to outdoors</td>
<td></td>
</tr>
<tr>
<td>Exhaust grilles or registers located directly above patient bed on ceiling or on wall near head of bed</td>
<td></td>
</tr>
<tr>
<td>Permanent device monitoring differential air pressure between AII room &amp; corridor</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation:</td>
<td>Min. 10 air changes per hour</td>
</tr>
<tr>
<td>Exhaust:</td>
<td>Negative pressure to corridor</td>
</tr>
<tr>
<td>No recirculating room units</td>
<td></td>
</tr>
<tr>
<td>AII room under negative pressure to anteroom</td>
<td></td>
</tr>
<tr>
<td>Anteroom under negative pressure to corridor</td>
<td></td>
</tr>
</tbody>
</table>
2.2-2.5.6 SUPPORT AREAS FOR INTERMEDIATE CARE UNIT

___ Support areas noted in this section are located in or readily accessible* to each nursing unit

2.2-2.5.6.1 Administrative center or nurse station

___ direct or remote visual observation between administrative center or nurse station, staffed documentation areas & all patient beds in unit

2.1-2.6.1 Administrative center or nurse station

(1) ___ space for counters
(2) ___ at least one handwashing station located in, next to, or directly accessible*

2.1-2.6.2 Documentation area

___ work surface to support documentation process for number of staff who will use it at same time

2.2-2.6.3 Nurse or supervisor office

___ in or readily accessible* to nursing unit

2.1-2.6.4 Multipurpose room

___ at least one multipurpose room for each facility for staff, patients & patients' families for patient conferences, reports, education, training sessions & consultation

2.1-2.6.4.2 ___ accessible to each nursing unit (may serve several nursing units)

2.1-2.6.6 Medication safety zones

2.1-2.6.6.1 ___ medication preparation room

(2) or ___ self-contained medication dispensing unit

(a) ___ located out of circulation paths to minimize distraction & interruption
(c) ___ work counters
d) ___ task lighting
e) ___ meet acoustic design criteria per 1.2-5.1

2.1-2.6.6.2 medication preparation room

☐ check if not included in project

(a) ___ under visual control of nursing staff
(b) ___ work counter
(c) ___ handwashing station
d) ___ lockable refrigerator
e) ___ locked storage for controlled drugs

(c) check if not included in project

___ sharps containers placed at height that allows users to see top of container

Nurse Call System:

___ Master station Table 2.1-2

___ Duty station Table 2.1-2

Nurse Call System:

___ Duty station Table 2.1-2

Ventilation:

___ Min. 4 air changes per hour Table 7.1

Nurse Call System:

___ Duty station Table 2.1-2

Sharps Containers:

☐ check if not included in project

___ sharps containers placed at height that allows users to see top of container
### Architectural Requirements

| (d) | space to prepare medicines in addition to any self-contained medicine-dispensing unit |
| (2) | self-contained medication dispensing units  
- check if not included in project |
| (a) | located at nurse station, in clean workroom, in an alcove, or inpatient room |
| lockable unit to secure controlled drugs |
| (b) | handwashing station located next to stationary medication-dispensing units |

#### Building Systems Requirements

2.1-2.6.7  
- Nourishment area or room

2.1-2.6.7.2  
- handwashing station  
- work counter  
- refrigerator  
- microwave  
- storage cabinets  
- space for temporary storage of unused & soiled food service implements

2.1-2.6.7.3  
- provisions & space for separate temporary storage of unused & soiled meal trays not picked up at mealtime

2.1-2.6.8  
- Ice-making equipment

2.1-2.6.8.1  
- located in an enclosed space

2.1-2.6.8.2  
- self-dispensing ice-making equipment in public area  
- check if not located in public area

2.1-2.6.9  
- Clean workroom or clean supply room

2.1-2.6.9.1  
- clean workroom used for preparing patient care items  
- work counter  
- handwashing station  
- storage facilities for clean & sterile supplies

or

2.1-2.6.9.2  
- clean supply room used only for storage & holding as part of system for distribution of clean & sterile supplies

2.1-2.6.10  
- Soiled workroom or soiled holding room
### Architectural Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.6.10.1</td>
<td><strong>Soiled workroom</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>__ handwashing station</td>
</tr>
<tr>
<td>(2)</td>
<td>__ flushing-rim clinical service sink with bedpan washer</td>
</tr>
<tr>
<td>(3)</td>
<td>__ work counter</td>
</tr>
<tr>
<td>(4)</td>
<td>__ space for separate covered containers</td>
</tr>
</tbody>
</table>

**or**

<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.6.10.2</td>
<td><strong>Soiled holding room</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>__ handwashing station or hand sanitation station</td>
</tr>
<tr>
<td>(a)</td>
<td>__ space for separate covered containers</td>
</tr>
<tr>
<td>(b)</td>
<td>__ toilet with bedpan washer located in each inpatient toilet room</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

**Ventilation:**

- __ Min. 10 air changes per hour  
- __ Exhaust  
- __ Negative pressure  

**Nurse Call System:**

- __ Duty station  

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<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>2.1-2.6.11.1</td>
<td><strong>Clean linen storage</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>__ clean linen stored in clean workroom or clean linen closet</td>
</tr>
<tr>
<td>(2)</td>
<td>__ covered cart distribution system (corridor alcoves may be used)</td>
</tr>
<tr>
<td></td>
<td>__ check if not included in project</td>
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</tbody>
</table>

**2.2-2.5.6.11 Equipment & supply storage room or alcoves**

- __ no less than 20 sf per patient bed  

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<table>
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<tr>
<th>Code</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>2.1-2.6.11.3</td>
<td><strong>Storage space for stretchers &amp; wheelchairs</strong></td>
</tr>
<tr>
<td>2.1-2.6.11.4</td>
<td><strong>Emergency equipment storage</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>__ each nursing unit has at least one emergency equipment storage location</td>
</tr>
<tr>
<td>(2)</td>
<td>__ under visual observation of staff</td>
</tr>
<tr>
<td>(3)</td>
<td>__ storage locations in corridors do not infringe on min. required corridor width</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Code</th>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>2.1-2.6.12</td>
<td><strong>Environmental services room</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>__ serves one or more than one nursing unit on a floor</td>
</tr>
<tr>
<td>(2)</td>
<td>__ readily accessible* to unit it serves</td>
</tr>
</tbody>
</table>

**2.1-2.6.12.1 Environmental services room**

**Ventilation:**

- __ Min. 10 air changes per hour  
- __ Exhaust  

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<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
</tr>
</thead>
</table>
| 2.2-2.5.7 | **SUPPORT AREAS FOR STAFF**  
| 2.2-2.5.7.1 | **Staff lounge** |
|        | __ lounge located in or readily accessible* to intermediate care unit       |
|        | __ min. 100 sf                                                              |

**Nurse Call System:**

- __ Duty station  

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<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.7.2</td>
<td><strong>Staff toilet room</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>__ readily accessible* to each nursing unit</td>
</tr>
<tr>
<td>(2)</td>
<td>__ toilet &amp; handwashing station</td>
</tr>
</tbody>
</table>

**Ventilation:**

- __ Min. 10 air changes per hour  
- __ Exhaust  

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### Architectural Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2.1-2.7.3</td>
<td>Staff storage facilities</td>
</tr>
<tr>
<td>2.1-2.7.3.1</td>
<td>Securable closets or cabinet compartments for personal articles of staff located in or near nurse station</td>
</tr>
<tr>
<td>2.1-2.7.3.2</td>
<td>Coat storage check if not included in project: storage of coats in closets or cabinets on each floor or in central staff locker area</td>
</tr>
</tbody>
</table>

### Building Systems Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Swinging doors for personnel use in addition to sliding doors check if not included in project</td>
</tr>
<tr>
<td></td>
<td>Min. clear width 34.5”</td>
</tr>
<tr>
<td></td>
<td>Doors do not swing into corridors (except doors to non-occupiable spaces &amp; doors with emergency breakaway hardware)</td>
</tr>
<tr>
<td></td>
<td>Min. clear width 34.5” for patient rooms &amp; diagnostic/treatment areas</td>
</tr>
<tr>
<td></td>
<td>Min. clear door height 83.5” for patient rooms &amp; diagnostic/treatment areas</td>
</tr>
</tbody>
</table>

### Architectural Details & MEP Requirements

#### 2.1-7.2.2 ARCHITECTURAL DETAILS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-7.2.2.1</td>
<td>Aisles, corridors &amp; ramps required for exit access in a hospital not less than 8'-0” in clear &amp; unobstructed width or Code Review Sheet establishing compliance with NFPA 101 has been submitted</td>
</tr>
<tr>
<td>2.1-7.2.2.2</td>
<td>Min. ceiling height 7'-6” in corridors &amp; normally unoccupied spaces</td>
</tr>
<tr>
<td></td>
<td>Min. height 7'-6” above floor of suspended tracks, rails &amp; pipes located in traffic path for patients in beds and/or on stretchers</td>
</tr>
<tr>
<td></td>
<td>Min. ceiling height 7'-10” in other areas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-7.2.2.5</td>
<td>Natural light by means of window to outside</td>
</tr>
<tr>
<td></td>
<td>Min. net glazed area no less than 8% of floor area of room served</td>
</tr>
<tr>
<td></td>
<td>Operable windows check if not included in project operation limited with either stop limit/restrictor hardware or open guard/screen</td>
</tr>
<tr>
<td></td>
<td>Insect screens</td>
</tr>
</tbody>
</table>
2.1-7.2.2.7 GLAZING MATERIALS:
(2) Safety glass-tempered or plastic glazing materials used for shower doors & bath enclosures
☐ check if not included in project
(4) Glazing within 18" of floor
☐ check if not included in project
☐ safety glass, wire glass or plastic break-resistant material

2.1-7.2.2.8 HANDWASHING STATIONS:
(1) Handw. stations in patient care areas located to be visible & unobstructed
(3) anchoring suitable for vertical or horizontal force of 250 lbs.
(4) Handwashing Station Countertops:
☐ check if not included in project
(a) porcelain, stainless steel or solid surface materials
(b) plastic laminate countertops
☐ check if not included in project
substrate marine-grade plywood (or equivalent) with impervious seal
(5) Designed to prevent storage beneath sink
(6) provisions for drying hands
(a) hand-drying device does not require hands to contact dispenser directly accessible* to sinks
(d) Liquid or foam soap dispensers

2.1-7.2.2.9 GRAB BARS:
(2) Grab bars anchored to sustain concentrated load of 250 lbs.
(3) Bariatric design
☐ rear wall grab bars min. 44" long

2.1-7.2.10 HANDRAILS:
(1) Handrails installed on both sides of patient use corridors
(3) Rail ends return to wall or floor
(4) Smooth non-textured surface free of rough edges
(5) Eased edges & corners
(6) Finishes cleanable

2.1-7.2.12 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
(2) Partitions, floors & ceiling construction in patient areas conform to Table 1.2-6

2.1-7.2.3 SURFACES

2.1-7.2.3.1 FLOORING & WALL BASES:
(1) Selected flooring surfaces cleanable & wear-resistant for location
(2) Smooth transitions between different flooring materials
(3) Flooring surfaces, including those on stairways, stable, firm & slip-resistant
(b) Carpet
☐ check if not included in project
☐ provides stable & firm surface
(4) Floors & wall bases of soiled workrooms, toilet rooms & other wet cleaned areas are not physically affected by cleaning solutions

2.1-7.2.3.2 WALLS & WALL PROTECTION:
(1) Washable wall finishes
(a) Wall finishes near plumbing fixtures smooth, scrubbable & water-resistant
(b) Monolithic wall surfaces in areas routinely subjected to wet spray or splatter

2.1-7.2.3.3 CEILINGS:
(1) Ceilings in areas occupied by patients, & in clean rooms & soiled rooms:
(a) cleanable with routine housekeeping equipment
(b) acoustic & lay-in ceilings
☐ check if not included in project
☐ do not create ledges or crevices

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

4/6.3.1 Outdoor Air Intakes:
4/6.3.1.1 Located min. 25 feet from cooling towers & all exhaust & vent discharges
☐ Bottom of air intake is at least 6'-0" above grade

4/6.3.1.2 Roof Mounted Air Intakes:
☐ check if not included in project
☐ bottom min. 3'-0" above roof level

4/6.3.2 Exhaust Discharges for Infectious Exhaust Air:
☐ check if not included in project
☐ Ductwork under negative pressure (except in mechanical room)
☐ Discharge in vertical direction at least 10'-0" above roof level
☐ Located not less than 10'-0" horizontally from air intakes & operable windows/doors
Compliance Checklist: Intermediate Care Unit

4/6.4 Filtration:
   - Filter banks conform to Table 6.4
4/6.4.1 Filter Bank #1 placed upstream of heating & cooling coils
4/6.4.2 Filter Bank No. 2 installed downstream of cooling coils & supply fan

4/6.5 Heating & Cooling Systems:
4/6.5.3 No radiators or convectors in special care areas

4/6.7 Air Distribution Systems:
4/6.7.1 Ducted return or exhaust systems in spaces listed in Table 7.1 with required pressure relationships
4/6.7.3 Smoke & Fire barriers:
   - HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers

4/6.8 Energy Recovery Systems:
4/6.8.2 Exhaust systems serving potentially contaminated rooms are not used for energy recovery

4/6.9 Duct Lining:
   - No duct lining in ductwork located downstream of Filter Bank #2

4/7. Space Ventilation:
4/7.1 Spaces ventilated per Table 7.1
   - Air movement from clean areas to less clean areas
   - Min. number of total air changes indicated either supplied for positive pressure rooms or exhausted for negative pressure rooms
   - Recirculating room HVAC units
     - Each unit serves only single space
     - Min. MERV 6 filter for airflow downstream of cooling coils

2.1-8.3 ELECTRICAL SYSTEMS

2.1-8.3.2 ELECTRICAL DISTRIBUTION & TRANSMISSION
2.1-8.3.2.1 Switchboards Locations:
   (1) Located in areas separate from piping & plumbing equipment
   (2) Not located in rooms they support
   (3) Accessible to authorized persons only
   (4) Located in dry, ventilated space free of corrosive gases or flammable material

2.1-8.3.2.2 Panelboards:
   (1) Panelboards serving life safety branch emergency circuits only serve same floor, floor above & floor below
   (2) Panelboards serving critical branch emergency circuits only serve same floor
   (3) New panelboards not located in exit enclosures

2.1-8.3.2.3 Ground-Fault Circuit Interrupters in Critical Care:
   (2) Provisions made to ensure that essential equip is not affected by activation of one interrupter

2.1-8.3.3 EMERGENCY ELECTRICAL SERVICE
   (1) Emergency power per NFPA 99, NFPA 101 & NFPA 110

2.1-8.3.4 LIGHTING
2.1-8.3.4.2 Light fixtures in wet areas have smooth, cleanable, shatter-resistant lenses & no exposed lamps

2.1-8.3.4.3 Patient Rooms:
   (a) General lighting
   (b) Reading light for each patient
   (c) Controls accessible to patient in bed
   (d) Light source covered by diffuser or lens flexible light arms
   (e) Check if not included in project
   (f) Designed to prevent lamp from contacting bed linen
   (g) Night lighting
   (h) Switch in patient room
   (i) Lights path from room
### Entrance to Bed
- Lights path from bed to toilet

### Nursing Unit Corridors
- General illumination with reduced light levels at night
- Portable or fixed exam light

### Exam/Treatment Rooms
- Required handwashing station or scrub sink tied to building electrical service
- Connected to essential electrical system

### Electrical Equipment

#### 2.1-8.3.5

#### 2.1-8.3.5.2
- Receptacles in Patient Care Areas: receptacles provided according to Table 2.1-1

#### 2.1-8.3.6

#### 2.1-8.3.6.2
- Emergency System Receptacles: distinctively colored or marked for identification

### Call Systems

#### Nurse Call Equipment Legend
- Includes patient stations, bath stations, staff emergency stations & code call stations

#### Nurse Call System Locations Provided as Required in Table 2.1-2

#### Call Systems Report to Attended Location with Electronically Supervised Visual & Audible Signals

#### Call Systems Meet Requirements of UL 1069 Standard for Hospital Signaling & Nurse Call Equipment

#### Wireless System
- Meets requirements of UL 1069

#### Patient Call Stations
- Each patient sleeping bed provided with patient call station equipped for two-way voice communication

#### Visible Signal Once Call Station Has Been Activated
- Reset switch for canceling call

#### Visible Signal in Corridor at Patient Room Door
- Additional visible signals installed at corridor intersections

### Plumbing & Other Piping Systems

#### Hemodialysis/Hemoperfusion
- Separate treated water distribution system
- Treated water outlet for each individual hemodialysis treatment bay, hemodialysis equipment repair area & dialysate preparation area

#### Drainage System Independent from Tap Water

#### Liquid Waste System for Hemodialysis Treatment Area Designed to Minimize Odor & Prevent Backflow

#### Heated Potable Water Distribution Systems
- Systems serving patient care areas are under constant recirculation
- Non-recirculated fixture branch piping does not exceed 25'-0" in length
- No dead-end piping

### Bath Stations
- Provided at each patient toilet, bathtub or shower stall
- Alarm turned off only at bath station where it was initiated
- Located 5'-0" to 6'-0" above floor in shower stalls & tubs, within normal view of user
- Within reach of staff without need to step into shower or tub
- Located to side of toilets within 12" of front of toilet bowl & 3'-0" to 4'-0" above floor
- Accessible to both toilet & shower

### Staff Emergency Stations
- For summoning local staff assistance for non-life-threatening situations at each patient care location

### Code Call Station Equipped with Continuous Audible or Visual Signal at Point of Origin
(4) ___ water-heating system has supply capacity at minimum temperatures & amounts indicated in Table 2.1-3

(5) ___ handwashing stations supplied as required above  
   or  
   ___ handwashing stations supplied at constant temperature between 70°F & 80°F using single-pipe supply

2.1-8.2.4.6  Drainage Systems:  
(1) ___ drainage piping above ceiling of, or exposed in electric closets  
   ___ check if not included in project  
   ___ special provisions to protect space below from leakage & condensation

2.1-8.4.3  PLUMBING FIXTURES

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

2.1-8.4.3.2  Handwashing Station Sinks:  
(1) ___ basins reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed & medications are prepared  
   ___ basin min. 144 square inches  
   ___ min. dimension 9 inches  
   ___ made of porcelain, stainless steel, or solid-surface materials  
   ___ water discharge point of faucets at least 10 inches above bottom of basin  
   ___ anchoring for sinks withstands min. vertical or horizontal force of 250 lbs.  
   ___ fittings operated without using hands for sinks used by medical & nursing staff, patients & public

2.1-8.4.3.3  Showers & Tubs:  
(1) ___ check if not included in project

2.1-8.4.3.4  Ice-Making Equipment:  
(1) ___ copper tubing provided for supply connections

2.1-8.4.3.5  Clinical Sinks:  
(1) ___ trimmed with valves that can be operated without hands

2.1-8.4.3.7  Bedpan Washers:  
(1) ___ bedpan washer provided in each inpatient toilet room

2.1-8.4.4  MEDICAL GAS & VACUUM SYSTEMS
   ___ Station outlets provided as indicated in Table 2.1-4

2.1-8.4.4.2  (2) ___ Vacuum discharge at least 25'-0" from all outside air intakes, doors & operable windows

2.1-8.4.4  MEDICAL GAS & VACUUM SYSTEMS
   ___ Station outlets provided as indicated in Table 2.1-4

2.1-8.4.4.2  (2) ___ Vacuum discharge at least 25'-0" from all outside air intakes, doors & operable windows

2.1-8.6.2  ELECTRONIC SURVEILLANCE SYSTEMS  
(1) ___ check if not included in project

2.1-8.6.2.1  Devices in patient areas mounted in unobtrusive & tamper-resistant enclosures

2.1-8.6.2.2  Monitoring devices not readily observable by general public or patients

2.1-8.6.2.3  Receive power from emergency electrical system