COMPLIANCE CHECKLIST

IP14 Surgical Services

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 Hospitals. 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)
- 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.

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:

Facility Address:

Satellite Name: (if applicable)

Satellite Address: (if applicable)

Project Description:

MDPH/DHCFLC

02/19 IP14
2.2-3.3  **Surgical Services**

2.2-3.3.1.1 **Location & Layout:**

(4) surgery department divided into
   unrestricted areas, semi-restricted areas & restricted areas

(1) semi-restricted & restricted areas of
   surgery department located & arranged
to prevent unrelated traffic

(2) clinical practice setting designed to
    facilitate movement of patients &
    personnel into through & out of defined
    areas in surgery department

(3) signs that clearly indicate need for
    surgical attire shown on plans at all
    entrances to semi-restricted areas

2.2-3.3.2 **PROCEDURE ROOMS**

☐ check if not included in project

2.2-3.3.2.1(1) **Application:**

(a) room designated for the performance of
    patient care that requires high-level
    disinfection or sterile instruments & some
    environmental controls but not required to
    be performed with the environmental
    controls of an operating room

   hospital has completed clinical
   assessment of procedures to be
   performed to determine appropriate
   room type & location for procedures &
documented this in functional program
   included in Project Narrative

2.2-3.3.2.1(2) **Location:**

(a) procedure room meet requirements of
    semi-restricted area

(b) procedure room accessed from semi-
    restricted corridor or from unrestricted
    corridor

2.2-3.3.2.2 **Space Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)(a)</td>
<td>min. clear floor area 130 sf</td>
</tr>
</tbody>
</table>
| (1)(b)      | anesthesia machine & associated
             | supply carts are used
             | ☐ check if not included in project
             | min. clear floor area 160 sf |
| (1)(c)      | procedure room sized to accommodate
             | personnel & equipment needed for
             | particular procedures,
             | procedure room sized to accommodate
             | additional personnel & equipment that
             | may be needed for emergency rescue
             | min. clearance 3’-6” on each side of
             | table, gurney or procedural chair
             | min. clearance 3’-0” at head & foot of
             | table, gurney or procedural chair |

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Table 7.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 15 air changes per hour</td>
<td></td>
</tr>
<tr>
<td>Positive pressure</td>
<td></td>
</tr>
<tr>
<td>No recirculating room units</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power</th>
<th>Table 2.1-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 12 receptacles in total</td>
<td></td>
</tr>
</tbody>
</table>
| Min. 8 receptacles convenient
to table placement with at
least one on each wall |

<table>
<thead>
<tr>
<th>Nurse Call System</th>
<th>Table 2.1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff assistance station</td>
<td></td>
</tr>
<tr>
<td>Emergency call station</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medical Gases</th>
<th>Table 2.1-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 OX, 2 VAC, 1 MA</td>
<td></td>
</tr>
</tbody>
</table>
Architectural Requirements

(2)(b)  __ an anesthesia machine & associated supply carts are used
        __ min. clearance 6'-0" at head of table, gurney or procedural chair

2.2-3.3.2.3  __ Documentation area
(1)  __ accommodations for written and/or electronic documentation provided in procedure room
2.1-2.8.3.1  __ work surface to support documentation process
2.2-3.3.2.3(2)  __ use of documentation area allows for direct observation of patient
2.2-3.3.2.4  __ Provisions made for patient privacy

2.2-3.3.2.5  Handwashing Facilities:
(1)  __ handwashing station located in procedure room
     or
(2)  __ hand scrub station directly accessible* to procedure room

2.2-3.3.3  Operating Rooms
2.2-3.3.3.1(1)  Application:  Rooms designated for invasive procedures as defined in Glossary
        __ procedures performed in aseptic surgical field & penetrates protective surfaces of patient body, may require entry into or opening of sterile body cavity, or involve insertion of indwelling foreign body, or include excision & grafting of burns
        __ procedures that do not begin as invasive procedures but have recognized measurable risks of requiring conversion to invasive procedures

(2)  __ Operating room meets requirements of restricted area

2.2-3.3.2  General Operating Room
Space Requirements:
(3)  (may include minor wall encroachments max. 12" deep by max. 10% of wall length)
     __ min. clear floor area 400 sf
(1)(a)  __ min. clearance 8'-6" on each side of operating table
(1)(b)  __ min. clearance 6'-0" at head of operating table
        __ anesthesia work zone with clear floor area 6'-0" x 8'-0"
        __ min. clearance 7'-0" at foot of operating table

Building Systems Requirements

Ventilation:
     __ Min. 20 air changes per hour  Table 7.1
     __ Positive pressure
     __ No recirculating room units
Lighting:
     __ General lighting in addition to special lighting units provided at surgical table 2.1-8.3.4.3(4) (a)
Power:
     __ Min. 36 receptacles in total Table 2.1-1
     __ Min. 16 receptacles convenient to table placement
     __ Min. 2 on each wall
Nurse Call System:
     __ Staff assistance station Table 2.1-2
     __ Emergency call station
Medical Gases:
     __ 2 OX, 5 VAC, 1 MA, 1 WAGD + Errata
### Architectural Requirements

<table>
<thead>
<tr>
<th>2.2-3.3.3</th>
<th>Documentation area</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>accommodations for written and/or electronic documentation</td>
</tr>
<tr>
<td>(2)</td>
<td>use of documentation area allows for direct observation of patient</td>
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</tbody>
</table>

| 2.2-3.3.4 | Medical image viewers (e.g. X-ray film or digital) |

<table>
<thead>
<tr>
<th>2.2-3.3.5(3)</th>
<th>Communications System:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>all operating rooms are equipped with emergency communication system that incorporates push activation of emergency call switch</td>
</tr>
<tr>
<td>(b)</td>
<td>each operating room have system for emergency communication with surgery department control station</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.2-3.3.6</th>
<th>Operating room for image-guided surgery</th>
</tr>
</thead>
</table>

| Space Requirements: |
| --- | --- |
| (3) | (may include minor wall encroachments of max. 12” deep by max. 10% of wall length) |

| Uses portable imaging equipment or surgical procedures that require additional personnel and/or large equipment |
| --- | --- |
| (a) | sized to accommodate personnel & equipment planned to be in room during procedures |

| New Construction & Major Renovations: |
| --- | --- |
| min. clear floor area 600 sf |
| min. clear dimension 20’-0” |

<table>
<thead>
<tr>
<th>(b)</th>
<th>Limited Renovations:</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. clear floor area 500 sf</td>
<td></td>
</tr>
<tr>
<td>min. clear dimension 20’-0”</td>
<td></td>
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### Building Systems Requirements

| Ventilation: |
| --- | --- |
| Min. 20 air changes per hour |
| Positive pressure |
| No recirculating room units |

| Lighting: |
| --- | --- |
| General lighting in addition to special lighting units provided at surgical table |

| Power: |
| --- | --- |
| Min. 36 receptacles in total |
| Min. 16 receptacles convenient to table placement |
| Min. 2 on each wall |

| Nurse Call System: |
| --- | --- |
| Staff assistance station |
| Emergency call station |

| Medical Gases: |
| --- | --- |
| 2 OX, 5 VAC, 1 MA, 1 WAGD |

+ Errata
### Architectural Requirements

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<tbody>
<tr>
<td>(b)</td>
<td>each operating room have system for emergency communication with surgery department control station</td>
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<tbody>
<tr>
<td>2.2-3.3.6</td>
<td>Equipment storage rooms for open-heart or complex orthopedic &amp; neurosurgical surgery provided in semi-restricted area</td>
</tr>
</tbody>
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### Building Systems Requirements

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<td><strong>Lighting:</strong></td>
<td></td>
</tr>
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<td>General lighting in addition to special lighting units provided at surgical table</td>
<td>2.1-8.3.4.3(4)</td>
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<td>Table 2.1-3 + Errata</td>
</tr>
</tbody>
</table>

### HYBRID OPERATING ROOM

2.2-3.3.4.1 **Application:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>hybrid operating rooms (Class 3 imaging rooms)</td>
<td></td>
</tr>
</tbody>
</table>

2.2-3.4.2 **Space Requirements:**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>clear floor area, clearance &amp; storage requirements for imaging equipment contained in room</td>
</tr>
<tr>
<td>(2)</td>
<td>any mobile storage units do not encroach on required clear floor area &amp; clearances</td>
</tr>
</tbody>
</table>

2.2-3.4.2.2 **(1)** Imaging rooms are sized & configured to comply with manufacturer’s recommendations for installation service & maintenance |

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>installation plans from manufacturer have been submitted to DPH Plan Review</td>
<td></td>
</tr>
</tbody>
</table>

2.2-3.3.3 **Documentation area**

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<tr>
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2.2-3.3.4 **Medical image viewers (e.g. X-ray film or digital)**

2.2-3.3.5(3) **Communications System:**

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2.2-3.3.4.3 **Control room**

<table>
<thead>
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<th>Requirement</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>sized &amp; configured in compliance with manufacturer recommendations for installation service &amp; maintenance</td>
</tr>
<tr>
<td><strong>Architectural Requirements</strong></td>
<td><strong>Building Systems Requirements</strong></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td><strong>(2)</strong></td>
<td></td>
</tr>
<tr>
<td>____ control room physically separated from hybrid operating room with walls &amp; door or ____ open control area serves only one operating room &amp; is built maintained &amp; controlled same as operating room</td>
<td></td>
</tr>
<tr>
<td><strong>(4)</strong></td>
<td></td>
</tr>
<tr>
<td>____ view panels that provide for view of patient &amp; surgical team</td>
<td></td>
</tr>
</tbody>
</table>

2.2-3.3.4.4 Structural Support:  
____ floor & ceiling structures (if applicable) designed to support weight of imaging equipment as well as other fixed ancillary equipment (e.g. lights service columns) & movable ancillary equipment

2.2-3.3.4.5 Hybrid operating room protected from disruptive environmental vibrations & other disturbances in accordance with imaging equipment manufacturer’s technical specifications

2.2-3.3.4.6 System component room

2.2-3.4.2.5(1) Location:  
(a) accessed only from unrestricted or semi-restricted space outside imaging room

2.2-3.4.2.5(2) Space Requirements:  
____ room sized to accommodate following as indicated by imaging equipment manufacturer  
(a) transformers  
(b) power distribution equipment  
(c) power conditioning/UPS equipment  
(d) computers  
(e) associated electronics & electrical gear

2.2-3.3.4.7 Radiation Protection:  
☐ check if not included in project (only if imaging equipment does not emit ionizing radiations)  
____ certified radiation physicist has specified type, location & amount of radiation protection  
____ specifications of radiation shielding have been submitted to DPH Radiation Control Program

2.2-3.3.4.8 Specific requirements for hybrid operating rooms with intraoperative computerized tomography (CT) systems:  
☐ check if not included in project

2.2-3.3.4.8(1)
Architectural Requirements

2.2-3.4.1.3(1)   Shielded control room
      (a)   Space Requirements:
            sized & configured according to
            manufacturer recommendations
      (c)   shielded view window
            designed to provide full view of
            patient at all times (use of
            additional closed-circuit video
            monitoring permitted)
      (d)   control room enclosed with
            walls & door

Building Systems Requirements

2.2-3.3.4.8(2)   Specific Requirements for Hybrid Operating
      Rooms with Intraoperative MRI Systems:
      2.2-3.4.5.1   Planning Configuration of MRI Suite:
      (1)   conforms to 4-zone screening &
            access control protocols identified
            by American College of Radiology
            Zone I:  all areas that are
            freely accessible to the
            general public
            Zone II:  interface between the
            publicly accessible
            uncontrolled Zone I & strictly
            controlled Zone III (space for
            screening questions, patient
            histories, medical insurance
            questions)
            Zone III:  no free access by
            unscreened persons or non-
            MRI personnel due to
            interactions between persons
            or equipment & MRI scanner
            Zone IV:  MRI scanner room
            where access must be
            supervised by MRI personnel
      (2)   MRI suite as well as spaces around,
            above & below designed to prevent
            unscreened individuals from
            entering 5-gauss volume around
            MRI equipment
      (3)   Specific Support Areas for MRI Suite:
      (a)   space for patient interviews &
            clinical screening
      (b)   space for physical screening
      (c)   ferromagnetic (only) detection &
            warning systems
      (d)   access controls
      (e)   space to accommodate site-specific
            clinical & operational requirements
            such as image-guided procedures
            emergent imaging or general
            anesthesia support
            □ check if not included in project
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>(f)  __ space for containment of non-MRI-safe objects outside restricted MRI safety zones</td>
<td></td>
</tr>
<tr>
<td>(g)  __ space for storage (patient lockers) of patient belongings &amp; non-MRI-safe items</td>
<td></td>
</tr>
<tr>
<td>(4)  __ any area in which magnetic field strength is equal to or greater than 5 gauss is physically restricted by use of key locks or pass-key locking systems</td>
<td></td>
</tr>
<tr>
<td>2.2-3.4.5.4 (1) __ MRI control room</td>
<td></td>
</tr>
<tr>
<td>(1)  __ operator console positioned so operator has full view of principal approach &amp; entrance to MRI scanner room</td>
<td></td>
</tr>
<tr>
<td>(2)  __ outward-swinging door □ check if not included in project __ door in open position does not obstruct view of entry opening from operator’s console</td>
<td></td>
</tr>
<tr>
<td>2.2-3.4.1.3(1) (a) __ Space Requirements:</td>
<td></td>
</tr>
<tr>
<td>(b)  __ sized &amp; configured according to manufacturer’s recommendations</td>
<td></td>
</tr>
<tr>
<td>2.2-3.4.1.3(1) (c) __ shielded view window designed to provide full view of examination/ procedure table &amp; patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted)</td>
<td></td>
</tr>
<tr>
<td>2.2-3.4.1.3(1) (d) __ control room enclosed with walls &amp; door</td>
<td></td>
</tr>
<tr>
<td>2.2-3.4.5.9 Special Design Elements for MRI Scanner Room:</td>
<td></td>
</tr>
<tr>
<td>(1)(a) __ ferromagnetic materials that may become detached or otherwise interfere with operation of MRI scanner are not used in MRI scanner rooms</td>
<td></td>
</tr>
<tr>
<td>(1)(b) __ MRI scanner room be located and/or shielded to avoid electromagnetic interference from elevators or other electromagnetic equipment</td>
<td></td>
</tr>
<tr>
<td>(2)(a) __ floor structure designed to support weight of MRI scanner equipment minimize disturbance to MRI magnetic field &amp; mitigate disruptive environmental vibrations</td>
<td></td>
</tr>
<tr>
<td>(2)(b) __ MRI rooms be marked with lighted sign with red light to indicate that magnet is always on</td>
<td></td>
</tr>
</tbody>
</table>
Architectural Requirements | Building Systems Requirements

(2)(c)  |  acoustic control provided to mitigate noise emitted by MRI scanner per Table 1.2-6

2.2-3.3.4.8(3)  |  Specific Requirements for Hybrid Operating Rooms with Vascular Imaging Systems:
☐ check if not included in project

2.2-3.4.1.3(1)  |  Shielded control alcove or room
(a)  |  Space Requirements:
☐ sized & configured according to manufacturer’s recommendations

(c)  |  shielded view window designed to provide full view of examination/procedure table & patient at all times including full view of patient during imaging activities (use of additional closed-circuit video monitoring permitted)

(d)  |  control room enclosed with walls & door

2.2-3.5  |  PRE- & POSTOPERATIVE PATIENT CARE AREAS
2.1-3.4.1.1  |  Patient care stations accommodate lounge chairs, gurneys or beds for pre- & post-procedure (recovery) patient care
☐ Patient care stations accommodate seating space for family/visitors

2.1-3.4.1.2  |  Location in unrestricted area
2.1-3.4.1.3(2)  |  Layout:
(a)  |  combination of pre- & post-procedure patient care stations in one area
☐ patient care stations combined in same area meet most restrictive requirements of areas to be combined

or

(b)  |  separate pre-procedure patient care area & post-procedure recovery area
☐ patient care stations combined in same area meet most restrictive requirements of areas to be combined

or

(c)  |  three areas: pre-procedure patient care area Phase I post-anesthetic care unit (PACU) & Phase II recovery area

2.1-3.4.1.4  |  Number of Patient Care Stations:
(1)  |  pre- & post-procedure patient care stations are combined into one patient care area
☐ check if not included in project
☐ at least two patient care stations for each operating room
Architectural Requirements

(2) separate pre-procedure & recovery areas
☐ check if not included in project

2.1-3.4.3 pre-procedure patient care room or area provides minimum of one patient care station per imaging room, procedure room or operating room

2.1-3.4.4 Phase I post-anesthetic care unit (PACU) provides minimum of one Phase I patient care station per Class 3 imaging or operating room

2.1-3.4.5 Phase II recovery room(s) or area minimum of one Phase II patient care station per operating room

2.1-3.4.2.2 Space Requirements:
☐ check if not included in project

(2)(a) patient care bays
☐ check if not included in project

Ventilation:
☐ Min. 6 air changes per hour
☐ No recirculating room units

Power:
☐ Min. 8 receptacles in total
☐ Convenient to head of gurney or bed

Nurse Call System:
☐ Staff assistance station
☐ Emergency call station

Medical Gases:
☐ 2 OX, 3 VAC, 1 MA per station

(2)(b) patient care cubicles
☐ check if not included in project

Ventilation:
☐ Min. 6 air changes per hour
☐ No recirculating room units

Power:
☐ Min. 8 receptacles in total
☐ Convenient to head of gurney or bed

Nurse Call System:
☐ Staff assistance station
☐ Emergency call station

Medical Gases:
☐ 2 OX, 3 VAC, 1 MA per station

bays or cubicles face each other
☐ check if not included in project

aisle with min. clearance 8'-0” independent of foot clearance between patient stations or other fixed objects
Architectural Requirements

(2)(c) single-patient rooms
☐ check if not included in project
___ min. clearance 3'-0” between sides & foot of beds/gurneys/lounge chairs & adjacent* walls or partitions

Building Systems Requirements

Ventilation:
___ Min. 6 air changes per hour Table 7.1
___ No recirculating room units

Power:
___ Min. 8 receptacles in total Table 2.1-1
___ convenient to head of gurney or bed

Nurse Call System:
___ Staff assistance station Table 2.1-2
___ Emergency call station

Medical Gases:
___ 2 OX, 3 VAC, 1 MA per station Table 2.1-3

2.1-2.4.2  Airborne infection isolation (AII) room in pre-procedure & recovery areas

2.1-2.4.2.2  complies with requirements applicable to single-patient rooms

(2) personal protective equipment (PPE)
storage at entrance to room

(3) handwashing station

(4) patient toilet room
___ serves only one AII room

Ventilation:
___ Min. 12 air changes per hour Table 7.1
___ Exhaust
___ Negative pressure
___ No recirculating room units

2.1-2.4.2.3  anteroom
☐ check if not included in project

(1) provides space for persons to don personal protective equipment (PPE) before entering patient room

(2) all doors to anteroom have self-closing devices
or
___ audible alarm activated when AII room is in use as isolation room

(3)(a) handwashing station
(3)(b) storage for unused PPE
(3)(c) disposal/holding container for used PPE

2.1-2.4.2.4  Architectural Details & Furnishings:

(1)(a) perimeter walls ceiling & floor including penetrations 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
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1-2.4.2.5</td>
<td>____ edge seals provided along sides &amp; top of doorframe for any door into A11 room</td>
</tr>
<tr>
<td>2.1-2.4.2.5</td>
<td>____ room pressure visual or audible alarm</td>
</tr>
<tr>
<td>2.1-3.4.2.4</td>
<td>Patient Privacy:</td>
</tr>
<tr>
<td>2.1-2.1.2</td>
<td>____ provisions are made to address patient visual &amp; speech privacy</td>
</tr>
<tr>
<td>2.1-3.4.2.5</td>
<td>____ Handwashing stations</td>
</tr>
<tr>
<td>2.1-3.4.2.5</td>
<td>____ located in each room where hands-on patient care is provided</td>
</tr>
<tr>
<td>2.1-3.4.2.5</td>
<td>____ handwashing station serves multiple patient care stations</td>
</tr>
<tr>
<td>2.1-3.4.2.5</td>
<td>□ check if not included in project</td>
</tr>
<tr>
<td>(1)</td>
<td>____ at least 1 handwashing station for every 4 patient care stations or fewer &amp; for each major fraction thereof</td>
</tr>
<tr>
<td>(2)</td>
<td>____ handwashing stations evenly distributed</td>
</tr>
<tr>
<td>2.1-3.4.4.2</td>
<td>____ At least one route of patient transport provides direct access from semi-restricted area of surgical suite to Phase I recovery area without crossing public corridors</td>
</tr>
<tr>
<td>2.1-3.4.4.3</td>
<td>____ Design of Phase I recovery area provides observation of all patient care stations from nurse station</td>
</tr>
<tr>
<td>2.2-3.3.5.8</td>
<td>SUPPORT AREAS FOR PRE- &amp; POST-OPERATIVE PATIENT CARE AREAS</td>
</tr>
<tr>
<td>2.2-3.3.5.8(1)</td>
<td>____ General support areas in this section are provided in or directly accessible* to pre- &amp; postoperative patient care areas</td>
</tr>
<tr>
<td>2.2-3.3.5.8(2)</td>
<td>Nurse station</td>
</tr>
<tr>
<td>2.1-2.8.2</td>
<td>____ space for counters</td>
</tr>
<tr>
<td>2.1-2.8.2.1(1)</td>
<td>____ handwashing station next to or directly accessible*</td>
</tr>
<tr>
<td>2.1-2.8.2.1(2)</td>
<td>or</td>
</tr>
<tr>
<td>2.1-2.8.2.1(2)</td>
<td>____ hand sanitation dispenser next to or directly accessible*</td>
</tr>
<tr>
<td>2.1-2.8.2.2</td>
<td>Center for reception &amp; communication</td>
</tr>
<tr>
<td>2.1-2.8.2.2</td>
<td>____ self-contained</td>
</tr>
<tr>
<td>2.1-2.8.2.2</td>
<td>or</td>
</tr>
<tr>
<td>2.1-2.8.2.2</td>
<td>____ combined with administrative center or nurse station</td>
</tr>
<tr>
<td>2.1-2.8.3</td>
<td>Documentation area</td>
</tr>
<tr>
<td>2.1-2.8.3.1</td>
<td>____ work surface to support documentation process</td>
</tr>
<tr>
<td>Nurse Call System:</td>
<td>2.1-8.5.1.2(3)(b)</td>
</tr>
<tr>
<td>2.1-8.5.1.2(3)(b)</td>
<td>____ Duty station (light/sound signal)</td>
</tr>
</tbody>
</table>
Architectural Requirements

2.2-3.3.5.8(7)  ____ Clinical sink

2.2-3.3.5.8(8)  ____ Medication safety zone
(a)  ____ provided in postoperative patient care areas

2.1-2.8.8.1(2)
(a)  Design Promoting Safe Medication Use:
____ 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
(f)  ____ max. 45 dBA noise level caused by building systems

2.1-2.8.8.2(1)  ____ medication preparation room
(a)  ____ under visual control of nursing staff
(b)  ____ 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

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

2.2-3.3.5.8(9)  ____ Nourishment area
____ provided in unrestricted patient care area

2.1-2.8.9.2(1)  ____ handwashing station
2.1-2.8.9.2(2)  ____ work counter
2.1-2.8.9.2(3)  ____ refrigerator
2.1-2.8.9.2(4)  ____ microwave
2.1-2.8.9.2(5)  ____ storage cabinets
2.1-2.8.9.2(6)  ____ space for temporary storage of food service implements
2.1-2.8.9.3  ____ provisions for separate temporary storage of unused & soiled meal trays

Building Systems Requirements

Lighting:
____ Task-specific lighting level
2.1-2.8.8.1(2)(d)
min. 100 foot-candles

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

Nurse Call System:
____ Duty station (light/sound signal)  Table 2.1-2

MDPH/DHCFLC 02/19 IP14
Architectural Requirements

2.2-3.3.5.8(10)  (b) Ice-making equipment

(b) not located in semi-restricted area

2.2-3.3.5.8(12)

2.2-3.3.7.12
(1)(a) Soiled workroom or soiled holding room

(may be combined with Decontamination Room in Sterile Processing Facility)

(1)(b) separate soiled workrooms or holding rooms for unrestricted area and semi-restricted area

or

soiled workroom or holding room shared between unrestricted area and semi-restricted

direct access provided from semi-restricted area

separate entrance provided from unrestricted area

(c) soiled workroom or holding room do not have direct connection with operating rooms or other sterile activity rooms

2.1-2.8.12.2
(1)(a) soiled workroom

handwashing station

flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture

work counter

space for separate covered containers for waste & soiled linen

fluid management system is used

☐ check if not included in project

☐ electrical & plumbing connections that meet manufacturer requirements

☐ space for docking station

Ventilation:

☐ Min. 10 air changes per hour  Table 7.1

☐ Exhaust

☐ Negative pressure

☐ No recirculating room units

Nurse Call System:

☐ Duty station (light/sound signal)  Table 2.1-2

(2) fluid management system is used

☐ check if not included in project

2.1-2.8.12.3

soiled holding room

handwashing station or hand sanitation station

space for separate covered containers for waste & soiled linen

other provisions for disposal of liquid waste are made

Ventilation:

☐ Min. 10 air changes per hour  Table 7.1

☐ Exhaust

☐ Negative pressure

☐ No recirculating room units

Nurse Call System:

☐ Duty station (light/sound signal)  Table 2.1-2

2.2-3.3.7.12(3)

(b) other provisions for disposal of liquid waste are made

2.2.3.3.5.9  SUPPORT AREAS FOR STAFF

Staff toilet room located in postoperative patient care area to maintain staff availability to patients
<table>
<thead>
<tr>
<th>Support Areas for Patients &amp; Visitors</th>
<th>Support Areas in Semi-Restricted Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Architectural Requirements</strong></td>
<td><strong>Building Systems Requirements</strong></td>
</tr>
<tr>
<td>2.2-3.3.5.10 SUPPORT AREAS FOR PATIENTS &amp; VISITORS</td>
<td></td>
</tr>
<tr>
<td>(1) Patient toilet room</td>
<td></td>
</tr>
<tr>
<td>(a) Location:</td>
<td></td>
</tr>
<tr>
<td>Directly accessible* to pre- &amp; postoperative patient care area</td>
<td></td>
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<tr>
<td>Errata</td>
<td></td>
</tr>
<tr>
<td>Private toilet room directly accessible* from each pre- &amp; postoperative single-patient room used for Airborne Infection Isolation (AII)</td>
<td></td>
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<tr>
<td>Check if not included in project</td>
<td></td>
</tr>
<tr>
<td>(Only if no AII rooms are provided in pre- &amp; post-operative areas)</td>
<td></td>
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<tr>
<td>(b) Number:</td>
<td></td>
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<tr>
<td>One patient toilet for each eight patient care stations or fewer &amp; for each major fraction thereof</td>
<td></td>
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<tr>
<td>2.2-3.3.6 SUPPORT AREAS IN SEMI-RESTRICTED AREA</td>
<td></td>
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<tr>
<td>2.2-3.3.6.2 Nurse or control stations</td>
<td></td>
</tr>
<tr>
<td>(1) Access through all entries to semi-restricted area must be controlled</td>
<td></td>
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<tr>
<td>(2) Nurse or control station located in semi-restricted area or</td>
<td></td>
</tr>
<tr>
<td>Nurse or control station located in unrestricted area</td>
<td></td>
</tr>
<tr>
<td>Directly accessible* to semi-restricted area</td>
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<tr>
<td>(3) Nurse or control stations permit direct visual observation of traffic into semi-restricted area</td>
<td></td>
</tr>
<tr>
<td>2.2-3.3.6.6 Hand scrub facilities</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.6.1 At least one hand scrub position for each cesarean delivery room, operating room &amp; Class 3 imaging room</td>
<td></td>
</tr>
<tr>
<td>Located next to entrance to each room</td>
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</tr>
<tr>
<td>2.1-2.8.6.2 One hand scrub station consisting of two scrub positions may be shared if located adjacent* to entrance of each room</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.6.3 Placement of scrub station does not restrict min. required corridor width</td>
<td></td>
</tr>
<tr>
<td>2.2-3.3.6.13(1) Emergency equipment storage</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.13.4(1) Each patient care unit has at least one emergency equipment storage location</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.13.4(2) Provided under visual observation of staff</td>
<td></td>
</tr>
<tr>
<td>2.1-2.8.13.4(3) Storage locations in corridors do not encroach on minimum required corridor width</td>
<td></td>
</tr>
</tbody>
</table>
Architectural Requirements

2.2-3.3.6.14
(1) Environmental services room
   __ not shared with other areas

(2) __ accessed from semi-restricted corridor

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

2.2-3.3.6.15
“SATELLITE” STERILE PROCESSING FACILITIES
☐ check if not included in project

2.1-5.1.2 (only if hospital includes a Central Processing Department or if contractual arrangements are made for off-site processing and support areas for off-site processing are provided in hospital)

2.1-5.1.2.1(2) __ Sterile processing facility meet requirements of semi-restricted area

2.1-5.1.2.1(3)
Layout:
   __ sterile processing facilities designed to provide one-way traffic pattern

2.1-5.1.2.2 __ Two-room sterile processing facility
☐ check if not included in project

(1)(a) __ decontamination room & clean workroom physically separated by wall containing door or pass-through window
   or
   __ built-in washer/disinfector with pass-through door or window

(1)(b) __ Sterilizer access room for maintaining equipment
☐ check if not included in project

(2) __ Decontamination room

(a) __ sized to meet min. equipment space & clearances needed for equipment used
   __ equipment shown on plans

(b) __ work counter(s)
   __ handwashing station
   __ three-basin sink with counter
   __ flushing-rim clinical sink or equivalent fixture
   or
   __ alternative methods for disposal of bio-waste

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

Building Systems Requirements

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

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<table>
<thead>
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<tr>
<td></td>
<td>instrument air outlet for drying instruments</td>
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<td>or</td>
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<td></td>
<td>portable compressed air for drying instruments</td>
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<td></td>
<td>storage for decontamination supplies &amp; personal protective equipment (PPE)</td>
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### Building Systems Requirements

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<td></td>
<td>Ventilation:</td>
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### Clean workroom

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<tbody>
<tr>
<td></td>
<td>sized to accommodate sterilization equipment used</td>
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<tr>
<td></td>
<td>or</td>
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<tr>
<td></td>
<td>separate storage room</td>
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### Sterile storage (provided for storage of sterile instruments & supplies)

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<table>
<thead>
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<tbody>
<tr>
<td></td>
<td>area part of clean workroom</td>
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<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>separate storage room</td>
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</table>

### One-room sterile processing facility

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<table>
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<tbody>
<tr>
<td></td>
<td>consists of decontamination area &amp; clean work area</td>
</tr>
<tr>
<td></td>
<td>or</td>
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<tr>
<td></td>
<td>single entrance</td>
</tr>
<tr>
<td></td>
<td>located approximately equidistant from clean &amp; decontamination sides of room</td>
</tr>
<tr>
<td></td>
<td>or</td>
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<tr>
<td></td>
<td>two entrances</td>
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</tbody>
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### Decontamination area

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<table>
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<tr>
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<tbody>
<tr>
<td></td>
<td>countertop</td>
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<tr>
<td></td>
<td>or</td>
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<tr>
<td></td>
<td>two-basin sink for washing instruments</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>handwashing station</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>instrument-washing sink</td>
</tr>
<tr>
<td></td>
<td>or</td>
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<tr>
<td></td>
<td>storage for supplies</td>
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</tbody>
</table>
### Architectural Requirements

<table>
<thead>
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<th>Building Systems Requirements</th>
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</tbody>
</table>
| 1. | __ instrument air outlet for drying instruments  
|   | or  
|   | __ portable compressed air for drying instruments  
| 2. | __ instrument-washing sink separated from clean work area by 4'-0" foot distance from edge of sink  
|   | or  
|   | __ instrument-washing sink separated from clean work area by wall  
|   | or  
|   | __ instrument-washing sink separated from clean work area by screen  
|   | ___ screen extends min. 4'-0" above sink rim  
| 3. | __ clean work area  
|   | __ countertop  
|   | __ sterilizer  
|   | __ storage for supplies  
|   | __ instrument air outlet for drying instruments  
|   | or  
|   | __ portable compressed air for drying instruments  
| 4. | __ Equipment & supply storage  
|   | __ instrument & supply storage provided for sterile & clean instruments & supplies  
|   | __ Min. 4 air changes per hour  
|   | __ Positive pressure  
|   | __ No recirculating room units  
|   | Table 7.1  
| 2.1-5.1.2.4 |  
|   | __ separate room  
|   | or  
|   | __ portion of clean workroom  
|   |  
|   | __ space for case cart storage  
|   | _☐ _ check if not included in project  
|   | (only if case carts are not used in facility)  
|   |  
|   | __ clean/sterile medical/surgical supply receiving room  
|   | __ Min. 4 air changes per hour  
|   | __ Positive pressure  
|   | Table 7.1  
| 2.1-5.1.2.5 |  
|   | __ Support Areas for Staff:  
| 1(a) | __ separate changing areas provided for male & female staff (unisex changing area with one or more private changing rooms is permitted)  
| 1(b) | __ staff changing areas meet requirements  
| 1(c) | __ staff changing areas meet requirements  
| 2(a) | __ lockers
Architectural Requirements

(2)(b)  ____ toilet room

(2)(c)  ____ handwashing station

(2)(d)  ____ space for donning surgical attire

(2)(e)  ____ provision for separate storage of clean & soiled work attire

Building Systems Requirements

Ventilation:

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

2.2-3.3.7  SUPPORT AREAS DIRECTLY ACCESSIBLE TO SEMI-RESTRICTED AREA

2.2-3.3.7.12  ____ Soiled workroom or soiled holding room

(c)  ____ no direct connection with operating rooms or other sterile activity rooms

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

or

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

2.2-3.3.7.12(3)  ____ other provisions for disposal of liquid waste are provided and described in Project Narrative

2.2-3.3.7.13  ____ Clean equipment & supply storage for clean equipment & supplies used in semi-restricted & restricted areas

Ventilation:

___ Min. 4 air changes per hour  Table 7.1
___ Positive pressure
___ No recirculating room units

(1)  ____ general clean equipment & supply room separate from & have no direct connection with soiled holding room

(2)  ____ min. 50 sf per operating room

____ min. 300 sf
<table>
<thead>
<tr>
<th>Architectural Requirements</th>
<th>Building Systems Requirements</th>
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<td><strong>2.2-3.3.8</strong></td>
<td></td>
</tr>
<tr>
<td><strong>OTHER SUPPORT AREAS IN SURGERY DEPARTMENT</strong></td>
<td></td>
</tr>
<tr>
<td>2.2-3.3.8.13(1)</td>
<td>___ Clean linen storage (may be in designated location in clean supply &amp; equipment storage room)</td>
</tr>
<tr>
<td>(3)</td>
<td>___ Storage space for gurneys, stretchers &amp; wheelchairs</td>
</tr>
</tbody>
</table>
| (5) | ___ Medical gas storage  
| | ____ space for supply & storage of medical gases used in facility including space for reserve cylinders provided  
| | ____ protected in accordance with NFPA 99 Health Care Facilities Code |
| (6) | ___ Storage for large clinical equipment  
| | ☐ check if not included in project  
| 2.2-3.3.8.16 | ___ Storage for blood, organs, tissue & pathological specimens  
| (1) | ___ equipment temperature controls alarms & monitoring  
| 2.1-4.1.2.3 | ___ Refrigerated storage facilities  
| (1) | ___ refrigerator  
| (2) | ___ blood storage facilities  
| 2.2-3.3.8.17 | ___ Area for preparation & examination of frozen sections  
| | ____ located in Surgical Department  
| | or  
| | ____ located in general laboratory  
| | ____ immediate results are obtainable  
| 2.2-3.3.9 | **SUPPORT AREAS FOR SURGERY DEPARTMENT STAFF** |
| 2.2-3.3.9.1 | ___ Staff lounge  
| 2.2-3.3.9.4 | ___ Staff changing area & toilet facilities  
| (1) | ___ one or more private changing rooms or areas for male & female staff working in semi-restricted & restricted areas of surgery department  
| (2)(a) | ___ lockers  
| (2)(b) | ___ showers  
| (2)(c) | ___ toilets  
| (2)(d) | ___ handwashing stations  
| (2)(e) | ___ space for donning & doffing surgical attire  
| (2)(f) | ___ provisions for separate storage of clean & soiled surgical attire  

Ventilation:  
___ Min. 10 air changes per hour  
___ Exhaust  
___ Negative pressure  
___ No recirculating room units.
2.2-3.3.10 SUPPORT AREAS FOR PATIENTS FAMILIES & VISITORS

2.2-3.3.10.3 (2) Patient changing area
☐ check if not included in project (only if patients are assigned private holding rooms or cubicles)
(1)(a) provisions for storing patients’ belongings during procedures
(1)(b) toilet room

2.2-3.3.10.4 Waiting area for families & visitors

ARCHITECTURAL DETAILS

CORRIDOR WIDTH:
2.1-7.2.2.1 Aisles, corridors & ramps required for exit access in a hospital not less than 8'-0" in clear & unobstructed width
or
Detailed code review incorporated in Project Narrative

2.1-7.2.2.2 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

2.1-7.2.2.3 DOORS & DOOR HARDWARE:
(1) Door Type:
(a) doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors
(b) sliding doors
□ check if not included in project
manual or automatic sliding doors comply with NFPA 101
detailed code review included in Project Narrative
no floor tracks

(2) Door Opening:
(a) min. 45.5” clear door width for diagnostic/treatment areas
min. 83.5” clear door height for diagnostic/treatment areas
(b) swinging doors for personnel use in addition to sliding doors
□ check if not included in project
min. clear width 34.5’
(3) Door Swing:
   (a) doors do not swing into corridors except doors to non-occupiable spaces & doors with emergency breakaway hardware

(4) Lever hardware or push/pull latch hardware

(5) Doors for Patient Toilet Facilities:
   (a) two separate doors
   or
   (b) door that swings outward
   or
   (c) door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)
   or
   (d) 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

2.1-7.2.2.7 GLAZING MATERIALS:
   (a) Glazing within 1 foot 6 inches of floor
      ☐ check if not included in project
      ☐ must be safety glass, wire glass or plastic break-resistant material

2.1-7.2.2.8 HANDWASHING STATIONS:
   (1)(c) Handwashing stations in patient care areas located so they are visible & unobstructed

   (3)
   (a) Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly
   (b) Countertops substrate
      ☐ check if not included in project
      ☐ marine-grade plywood (or equivalent material) with impervious seal
   (c) 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 & to ensure single-unit dispensing

2.1-7.2.2.9 GRAB BARS:
   (1) Grab bars anchored to sustain concentrated load 250 pounds
   (3) Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors

2.1-7.2.2.11 RADIATION PROTECTION:
   ☐ check if no radiation emitting equipment is included in project
   ☐ Protection for X-ray & Gamma-ray installations are shown in the plans
   ☐ Documentation for radiation protection has been submitted separately to the DPH Radiation Control Program

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 operating suites
   or
   (a) 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 FLOORING & WALL BASES:
2.1-7.2.3.1 SURFACES
   (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
(7)(a) ______ Floors are monolithic & integral
coved wall bases are at least 6" high
& tightly sealed to wall in rooms
listed below
  • Operating rooms
  • Procedure rooms where
cystoscopy, urology & endoscopy
procedures are performed
  • Airborne infection isolation (AII)
room & any anteroom
  • Protective environment (PE)
room & any anteroom
  • Sterile processing facility

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
(5) ______ 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) Semi-Restricted Areas:
□ check if not included in project
(a) ______ ceiling finishes are scrubbable,
non absorptive, non perforated,
& capable of withstanding
cleaning with chemicals
(b) ______ lay-in ceilings
  □ gasketed or each ceiling
tile weighs min. 1 lbs./sq. ft.
  □ no perforated, tegular,
serrated or highly textured
  tiles
  or
  ______ ceilings of monolithic construction
(c) Restricted Areas:
□ check if not included in project
(a) ______ ceilings of monolithic construction
(except for central diffuser array)
(b) ______ ceiling finishes scrubbable &
capable of withstanding cleaning &
disinfecting chemicals
(c) ______ access openings are gasketed

2.1-7.2.4 FURNISHINGS:
2.1-7.2.4.1 ______ Built-in furnishings upholstered with
impervious materials in patient
treatment areas with risks of
exposure & contamination from
bodily fluids & other fluids
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 Ventilation Upon Loss of Electrical
Power:
□ space ventilation & pressure
relationship requirements of
Table 7.1 are maintained for AII
Rooms & Operating Rooms in
event of loss of normal electrical
power

Part 3/6.1.2 Heating & Cooling Sources:
Part 3/6.1.2.1 ______ heat sources & essential
accessories provided in number &
arangement 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
□ capacity of remaining source or
sources is sufficient to provide
heating for operating rooms &
recovery rooms

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:**
- 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

**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 Exhaust Discharges for Infectious Exhaust Air:**
- ☐ 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
- Exhaust discharge outlets from AII rooms bronchoscopy & sputum collection exhaust & laboratory work area chemical fume hoods is located not less than 25 feet horizontally from outdoor air intakes, openable windows/doors & areas that are normally accessible to public

### 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
- ☐ One filter bank MERV 13 for laboratories (see Table 6.4)
- ☐ 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 3/6.5 HEATING & COOLING SYSTEMS:
- ☐ Radiant heating systems

**Part 3/6.5.3 ☐ check if not included in project**
- Ceiling or wall panels with exposed cleanable surfaces or radiant floor heating are provided in AII, PE, OR or procedure room

### Part 3/6.6 AIR DISTRIBUTION SYSTEMS:
- ☐ 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
- Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems

**Part 3/6.7 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 3/6.8.2 AII room exhaust systems or combination AII/PE rooms are not used for energy recovery**
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 not used from these exhaust airstream sources: waste anesthesia gas disposal, soiled or decontamination room

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.3  Min. number of total air changes required for positive pressure rooms is provided by total supply airflow
☐ 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 7.1 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
☐ 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 and/or mechanism to constantly 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

Part 3/7.4.1  Operating Rooms
☐ check if not included in project
☐ Each OR has individual temperature control
☐ OR is provided with primary supply diffuser array designed as follows:
☐ airflow is unidirectional downwards & average velocity of diffusers is 25 to 35 CFM/ft²
☐ diffusers are concentrated to provide airflow pattern over patient & surgical team
☐ coverage area of primary supply diffuser array extends min. 12" beyond footprint of surgical table on each side
☐ no more than 30% of portion of primary supply diffuser array is used for non-diffuser uses
☐ additional supply diffusers provided within room outside of primary supply diffuser array
☐ check if not included in project
each OR has at least two low sidewall return or exhaust grilles spaced at opposite corners or as far apart as possible with bottom of these grilles installed approximately 8" above floor

Part 3/7.4.3  Imaging Procedure Rooms
☐ check if not included in project
☐ Anesthetic gases are administered
☐ ventilation requirements for operating rooms are met
☐ or
☐ No anesthetic gases are administered

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) 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

2.1-8.3.2.3 Ground-Fault Circuit Interrupters in Critical Care Areas:
☐ check if not included in project
(2) each receptacle individually protected by single GFCI device

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

2.1-8.3.5 ELECTRICAL EQUIPMENT

2.1-8.3.5.1 Handwashing sinks & scrub sinks that depend on building electrical service for operation are connected to essential electrical system
☐ check if not included in project

2.1-8.3.5.2 Electronic health record system servers & centralized storage provided with uninterruptible power supply

2.1-8.3.6 ELECTRICAL RECEPTACLES

2.1-8.3.6.1 Receptacles In Corridors:
(1) duplex-grounded receptacles for general use installed 50'-0" apart or less in all corridors
duplex-grounded receptacles for general use installed within 25'-0" of corridor ends

2.1-8.3.6.3 Essential Electrical System Receptacles:
(1) cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification
(2) 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) 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
(3)(a) non-recirculated fixture branch piping max. length 25'-0"
(3)(b) no installation of dead-end piping (except for empty risers mains & branches for future use)
(3)(c) any existing dead-end piping is removed
☐ check if not included in project
(4)(a) 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 operating rooms, procedure rooms, sterile processing facilities, 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 that is not open to restricted area

2.1-8.4.2.6 Floor Drains:
(a) no floor drains in procedure rooms, operating rooms, Class 2 & Class 3 imaging rooms
(b) floor drain in dedicated cystoscopy procedure room
☐ check if not included in project
recessed floor sink with automatic trap primer
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 in handwashing stations are designed with basins that will reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed & medications are prepared.
(2) Sink basins have nominal size of no less than 144 square inches.
(3) Sink basins have min. dimension 9 inches in width or length.
(4) 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.
(6) Sink basins are 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
☐ check if not included in project
☐ 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.

2.1-8.4.3.4 Ice-Making Equipment:
☐ copper tubing provided for supply connections to ice-making equipment.

2.1-8.4.3.5 Clinical Flushing-Rim Sinks:
(1) Trimmered 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.

2.1-8.4.3.6 Scrub Sinks:
(1) Freestanding scrub sinks are trimmed with foot, knee or electronic sensor controls.
(2) No single-lever wrist blades except for temperature pre-set valve.

2.1-8.4.4 MEDICAL GAS & VACUUM SYSTEMS
☐ Station outlets provided as indicated in Table 2.1-3.

2.1-8.5.1 CALL SYSTEMS
2.1-8.5.1.1(1) Nurse call stations provided as required in Table 2.1-2.
2.1-8.5.1.1(2) Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1-2.
2.1-8.5.1.1(4) Call system complies with UL 1069 “Standard for Hospital Signaling & Nurse Call Equipment”.
2.1-8.5.1.1(5) Wireless nurse call system:
☐ check if not included in project
☐ complies with UL 1069

2.1-8.5.1.2(4) Nurse call system provided in each patient care area as required in Table 2.1-2.

2.1-8.5.1.3 Bath Stations:
☐ bath station that can be activated by patient lying on floor provided at each patient toilet
(1) Alarm in these areas can be turned off only at bath station where it was initiated.
(3) Toilet bath stations located on the side of toilets within 12” of front of toilet bowl & 3’-0” to 4’-0” above floor

2.1-8.5.1.5 Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call.

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.