### **COMPLIANCE CHECKLIST**

#### **IP7 Neonatal Intensive 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 2022 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:

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

#### Instructions:

- 1. All requirement lines must be completed according to the following instructions and included in the plan submissions for Self-Certification Process or Abbreviated Review Process.
- 2. This checklist must be completed by the project architect or engineer based on the design actually reflected in the plans at the time of completion of the checklist.
- 3. Each requirement line (\_\_\_\_) of this Checklist must be completed exclusively with one of the following marks, unless otherwise directed in the checklist. If a functional space is not affected by a renovation project, the mark "E" may be indicated on the requirement line (\_\_\_\_) before the name of the functional space (associated requirements on indented lines below that name, or associated MEP requirements do not have to be completed in this case). If more than one functional space serves a given required function (e.g. patient room or exam room), that clarification should be provided in the Project Narrative, and the requirement lines are understood to only address the functional spaces that are involved in the project.
- **X** = Requirement is met, for new space, for renovated space, or for existing direct support space for an expanded service.
- E = Requirement relative to an existing suite or area that has been licensed for its designated function, is not affected by the construction project and does not pertain to a required direct support space for the specific service affected by the project. "E" must not be used for an existing required support space associated with a new patient care room or area.
- □ = Check box under section titles or individual requirements lines for optional services or functions that are not included in the project area.
- W = Waiver requested for specific section of the Regulations or FGI Guidelines, where hardship in meeting requirement can be demonstrated (a Physical Plant Waiver Form must be completed for each waiver request). An explicit floor plan or plan detail must be attached to each waiver request.
- 4. All room functions marked with "X" must be shown on the plans with the same name labels as in this checklist.
- 5. Mechanical, electrical & plumbing requirements are only partially mentioned in this checklist. The relevant section of the FGI Guidelines must be used for project compliance with all MEP requirements and for waiver references.
- 6. Oxygen, vacuum, medical air, waste anesthesia gas disposal and instrument air outlets (if required) are identified respectively by the abbreviations "OX", "VAC", "MA", "WAGD" & "IA".
- 7. Requirements referenced with "FI" result from formal interpretations from the FGI Interpretations Task Group.
- 8. The location requirements including asterisks (\*) refer to the definitions of the Glossary in the beginning section of the FGI Guidelines and reproduced in this checklist.

Facility Name:	DoN Project Num	nber: (if applicable)
Facility Address:	Patient Care Unit	Bed Complements:
	Current =	Proposed =
Satellite Name: (if applicable)	Building/Floor Location:	
Satellite Address: (if applicable)		
	Submission Date	s:
Project Description:	Initial Date:	
	Revision Date:	

#### **Architectural Requirements Building Systems Requirements** 2.2-2.9 **NEONATAL INTENSIVE CARE UNIT** 2.1-1.2.3 **Shared Services:** No combined functions unless specifically allowed in this checklist 2.2-2.9.1.2 Location: (1) all entries to NICU secured with controlled access by door locking or by direct or indirect visual observation (2) family entrance & reception area is clearly identified (3) reception area permits visual observation & contact with all traffic entering unit (4) NICU designed to protect physical security of infants parents & staff & to minimize risk of infant abduction 2.2-2.9.2 **NICU ROOMS & AREAS** 2.2-2.9.2.2 Multiple-infant rooms (1)(a) (including those with bays, cubicles or movable cubicle partitions) ☐ check if not included in project Space Requirements: Ventilation: Min. 4 air changes per hour Table 7-1 Lighting: 2.1-8.3.4.3(1) each infant care station contains General lighting min. clear floor area 150 sf per infant care bed (2)(a)Lighting for NICU bed aisle adjacent\* to each infant care permits staff observation of station with min. width 4'-0" patient (2)(b)minimizes glare fixed cubicle partitions $\square$ check if <u>not</u> included in project Power: Min. 16 receptacles in total Table 2.1-1 adjacent\* aisle with min. convenient to head of + Errata clear width 8'-0" to permit bed passage of equipment & personnel Nurse Call System: (3)(a)Staff assistance station for Table 2.1-2 min. clearance 8'-0" provided each bed between infant care beds Emergency call station for (3)(b)min. clearance 1 foot at head of each bed infant care bed Medical Gases: min. clearance 4'-0" between 3 OX, 3 VAC, 3 MA per bed Table 2.1-3 sides of infant care beds & any wall or other fixed obstruction 2.2-2.9.2.5(1) Handwashing Stations: every bed position located within

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20'-0" of handwashing station

## **Architectural Requirements** 2.2-2.9.2.2 Single-infant rooms (1)(b)☐ check if not included in project Space Requirements: min. clear floor area 180 sf (3)(b)min. clearance 1 foot at head of infant care bed min. clearance 4'-0" between sides of infant care beds & any wall or other fixed obstruction Handwashing Stations: handwashing station provided in 2.2-2.9.2.5(2) each room 2.2-2.9.2.3 Windows (1) at least one source of daylight is visible from infant care areas (2)(a)exterior windows glazed with insulating glass to minimize heat gain or loss (2)(b)exterior windows are situated at least 2'-0" from any part of infant bed exterior windows are sized to minimize radiant heat loss from infant (2)(c)all daylight sources are equipped with shading devices Each infant care station is designed to allow 2.2-2.9.2.4 visual privacy for infant & family 2.2-2.9.3 **NEONATAL COUPLET CARE ROOM** ☐ check if not included in project 2.2-2.9.3.1 Space requirements minimum clear floor area 300 sf (150 sf (1) for the infant care station & 150 sf for the mother's bed) 2.1-2.3.2.2 (2)(a)min. clearance 5'-0"at foot of bed (2)(b)min. clearance 5'-6" on non-transfer side of bed from edge of

### **Building Systems Requirements**

Ventilation: Min. 4 air changes per hour	Table 7-1
Lighting:  General lighting  Lighting for NICU bed permits staff observation of patient	2.1-8.3.4.3(1) (c)
minimizes glare	
Power:	Table 0.4.4
Min. 16 receptacles in total convenient to head of bed	Table 2.1-1
Nurse Call System:	
Patient station Staff assistance station Emergency call for each	Table 2.1-2
bed Medical Gases:	
3 OX, 3 VAC, 3 MA per bed	Table 2.1-3

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expanded-capacity patient bed

#### **Architectural Requirements Building Systems Requirements** (2)(c)Clearance on Transfer Side of Bed: patient room equipped with ceiling- or wall-mounted lifts rectangular clear floor area min. 10'-6" long by 5'-6" wide measured beginning 2'-0" from headwall or patient room not equipped with ceiling- or wall-mounted lifts rectangular clear floor area min. 10'-6" long by 7'-0" wide measured beginning 2'-0" from headwall 2.2-2.9.2.2 Single-infant care station (3)(b)min. clearance 1 foot at head of Ventilation: Table 7-1 infant care bed Min. 4 air changes per hour min. clearance 4'-0" between Lighting: sides of infant care beds & any General lighting 2.1-8.3.4.3(1)(c) wall or other fixed obstruction Lighting for NICU bed permits staff observation of patient minimizes glare Power: Min. 16 receptacles in total Table 2.1-1 convenient to head of bed Nurse Call System: Patient station Table 2.1-2 Staff assistance station Emergency call for each bed Medical Gases: 3 OX, 3 VAC, 3 MA per bed Table 2.1-3 2.2-2.9.3.2 Adult Patient Accommodations: 2.1-2.1.2 Patient Privacy: Provisions are made to address patient visual & speech privacy 2.1-2.2.5 Handwashing Station in Patient Room: \_\_\_ provided in patient room in 2.1-2.2.5.1 addition to that in toilet room adjacent to entrance to patient (1) room for use by health care personnel & others 2.1-2.2.6 Patient toilet room 2.1-2.2.6.2 serves no more than one patient room 2.1-2.2.6.3 Ventilation: (1) toilet Min. 10 air changes per hour Table 7-1 (2)handwashing station Exhaust bedpan washer Negative pressure (3)No recirculating room units 2.1-2.2.8 Patient Storage: separate wardrobe, locker, or

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closet suitable for garments & for

storing personal effects

# **Architectural Requirements**

# **Building Systems Requirements**

2.1-7.2.2.5	Windows in Patient Rooms:		
2.1-7.2.2.5(1)	each patient room provided with		
	natural light by means of window to		
	outside		
2.1-7.2.2.5(2)	operable windows in patient rooms		
	or suites		
	☐ check if not included in project		
	window operation is limited		
	with either stop limit/restrictor		
	hardware or open		
	guard/screen		
	prevents passage of 4-inch		
	diameter sphere through opening		
2.1-7.2.2.6	insect screens		
2.1-7.2.2.5(3)			
(a)	minimum net glazed area be no less		
	than 8% of required min. clear floor		
<i></i>	area of room served		
(b)	maximum 36 inches windowsill		
	height above finished floor		
2.2-2.9.3.3	Negratal acuplet care room combined		
2.2-2.9.3.3	Neonatal couplet care room combined with LDRP room		
(1)	min. clear floor area 435 sf		
2.2-2.9.2.2(3)	min. clear noor area 400 si		
2.2-2.3.2.2(3)	infant care bed		
	min. clearance 4'-0" between		
	sides of infant care beds & any		
	wall or other fixed obstruction		
2.2-2.10.3.2			
(2)(a)	min. clearance 6'-0" from foot of		
( /( /	bed to wall or fixed obstruction		
(2)(b)	min. clearance 5'-0" on transfer		
· / · /	side of bed to wall or fixed		
	obstruction		
(2)(c)	min. clearance 4'-0" on non-		
	transfer side of bed to wall or		
	fixed obstruction		
2.2-2.9.4	SPECIAL PATIENT CARE ROOMS		
2.2-2.9.4.2	Airborne infection isolation (AII) room		
(1)	provisions for observation of infant in		
	AII room from adjacent* areas of NICU		
2.1-2.4.2.2	complies with requirements applicable		
	to NICU patient rooms		
(1)	capacity one bed		
(2)	personal protective equipment (PPE)		
	storage at entrance to room		
(3)	handwashing station		
( )	nanawasiinig station		
2.1-2.4.2.3	Anteroom		
	☐ check if <u>not</u> included in project		
(1)	<del></del>	Ventilation:	
(')	provides space for persons to don personal protective equipment	Min. 10 air changes per hour	Table 7-1
	(PPE) before entering patient room	Exhaust	. 4510 7 1
	(i i L) belore entering patient room	No recirculating room units	
		<del>_</del>	

# **Architectural Requirements**

# **Building Systems Requirements**

(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 $\mathrm{AII}$	
	room is in use as isolation room	
	edge seals provided along sides & top	
	of doorframe for any door into AII room	
(2) (a)	window treatments do not include	
	fabric drapes & curtains	
2.1-7.2.3.1(7)(a)	floors are monolithic & integral coved	
	wall bases are at least 6" high & tightly	
	sealed to wall	
2.1-2.4.2.5	room pressure visual or audible alarm	
2.2-2.9.8	SUPPORT AREAS FOR NICU	
2.2-2.9.8.2	Administrative center or nurse station	
2.1-2.8.2.1(1)	space for counters	
2.1-2.8.2.1(2)	handwashing station next to or directly	
	accessible*	
	or	
	hand sanitation dispenser next to or	
	directly accessible*	
2.2-2.9.8.3	Documentation area	
2.1-2.8.3.1	work surface to support documentation	
	process	
2.2-2.9.8.4	Nurse/supervisor office or station	
(1)	office space for intensive care medical	
	& nursing management/administrative personnel	
	immediately accessible* to intensive	
	care unit	
(2)	offices linked with unit by telephone or	
	intercommunications system	
2.2-2.9.8.5	Multipurpose room	

	Architectural Requirements	<b>Building Systems Requirements</b>	
(1)	at least one multipurpose room for each facility for patient conferences, reports, education, training sessions & consultation (may serve several patient care units & departments)		
(2) 2.2-2.9.8.8	readily accessible* to patient care unit		
2.1-2.8.8.1(2)	Medication safety zones  Design Promoting Safe Medication Use:		
(a)	medication safety zones located out of circulation paths		
(b)	work space designed so that staff	Lighting:	
,	can access information & perform required tasks	Task-specific lighting level min. 100 foot-candles	2.1-2.8.8.1(2)(d)
(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	Ventilation:	
(b)	work counter	Min. 4 air changes per hour	Table 7-1
	handwashing station	Lighting:	
	lockable refrigerator	Task lighting	2.1-2.8.8.1(2)(d)
	locked storage for controlled drugs		
	sharps containers		
	$\Box$ check if <u>not</u> included in project		
(c)	self-contained		
	medication-dispensing unit		
	□ check if <u>not</u> 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	Lighting:	
. ,	workroom or in alcove	Task lighting	2.1-2.8.8.1(2)(d)
(c)	handwashing station or hand		
	sanitation dispenser located next to stationary medication-		
	dispensing units or stations		
	and portioning armite or ordinario		
2.1-2.8.10	Ice-making equipment		
2.2-2.9.8.11			
2.1-2.8.11.2	Clean workroom or clean supply room clean workroom	Ventilation:	
2.1 2.0.11.2	used for preparing patient care items	Min. 4 air changes per hour	Table 7-1
(1)	work counter	Positive pressure	
(2)	handwashing station		
(3)	storage facilities for clean & sterile		
` '	supplies		
	or		
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	Architectural Requirements	Building Systems Requirements	
2.1-2.8.11.3	clean supply room used only for storage & holding as part of system for distribution of clean & sterile supplies	Ventilation: Min. 4 air changes per hour Positive pressure	Table 7-1
2.2-2.9.8.12 2.1-2.8.12.2	Soiled workroom or soiled holding room soiled workroom	Ventilation: Min. 10 air changes per hour	Table 7-1
(1)(a) (1)(b)	handwashing station flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture	Exhaust Negative pressure No recirculating room units	
(1)(c) (1)(d) (2)	work counter space for separate covered containers for waste & soiled linen fluid waste management system		
	is used □ check if <u>not</u> included in project		
(a) (b)	electrical & plumbing connections that meet manufacturer requirements		
(b)	space for docking station or		
2.1-2.8.12.3	soiled holding room	Ventilation: Min. 10 air changes per hour	Table 7-1
(1)	handwashing station or hand sanitation station	Exhaust Negative pressure	
(2)	space for separate covered containers for waste & soiled linen	No recirculating room units	
2.1-2.8.13.1 (1)	Clean linen storage stored in clean workroom or clean supply room or separate closet		
	or covered cart distribution system on each floor		
(2)	<ul><li>storage of clean linen carts in designated corridor alcoves, clean workroom or closets</li></ul>		
2.1-2.8.13.2	Equipment & supply storage room or alcoves sized to provide min. 10 sf per patient bed		
2.1-2.8.13.3	Storage space for gurneys, stretchers & wheelchairs		
2.2-2.9.8.13 (1)	Emergency equipment storage  each patient care unit has at least one emergency equipment storage location		
(2)	provided under visual observation of staff		

Α	rchitectural Requirements	<b>Building Systems Requirements</b>
(3)	storage locations in corridors do not encroach on minimum required corridor width	
2.2-2.9.8.14 (1) (2) 2.1-2.8.14.2(1) 2.1-2.8.14.2(2) 2.1-2.8.14.2(3)	Environmental services room  not shared with other patient care units or departments directly accessible* to NICU service sink or floor-mounted mop sink provisions for storage of supplies & housekeeping equipment handwashing station  or hand sanitation station	Ventilation:  Min. 10 air changes per hour Table 7-1  Exhaust Negative pressure No recirculating room units
2.2-2.9.8.15 (1) (2) (3) (4) (5) (6) (7) (8)	Diagnostic Treatment & Service Areas: (provided in same building) respiratory therapy blood gas lab developmental therapy social work laboratory services pharmacy services radiology services other ancillary services	
2.2-2.9.8.16 _	Lactation support space immediately accessible* to NICU for lactation support & consultation	
(1)	handwashing station counter	
(2)(a)	refrigeration & freezing immediately accessible* to NICU	
(2)(b)	storage for pump & attachments & educational materials immediately accessible* to NICU	
2.2-2.9.8.17 (1)(a)	Infant feeding preparation facilities space for preparation & storage of formula & additives to human milk & formula provided in unit or other	
(1)(b)	location away from patient bedside  work area & equipment layout designed to provide for flow of materials from clean to soiled to maintain aseptic preparation space	
(2)	infant feedings prepared on-site  check if not included in project	
(a)	feeding preparation room with following spaces:  anteroom or anteroom area preparation area Storage space Cleanup area	

	Architectural Requirements	Building Systems Requirements	
(3)	space for mixing additives into liquid formula or human milk provided in unit or in another location away from patient bedside		
(4)	<ul> <li>provisions for human milk storage</li> <li>provided in designated space in infant</li> <li>feeding preparation room or in</li> <li>designated spaces on patient care unit</li> <li>separate from formula storage</li> </ul>		
(5)	Special Design Elements:		
2.1-7.2.3.1(6)	surfaces in food preparation sanitation/ warewashing & serving areas be non-absorbent smooth & easily cleaned		
2.1-7.2.3.2(3) (a)	walls non-absorbent, smooth, easily cleaned & light in color		
2.2-2.9.9	SUPPORT AREAS FOR STAFF		
2.2-2.9.9.1	Staff lounge		
	provided in or adjacent* to unit Staff locker room		
	Stan locker room provided in or adjacent* to unit		
	Staff toilet room	Ventilation:	
	provided in or adjacent* to unit	<ul> <li>Min. 10 air changes per hour</li> <li>Exhaust</li> <li>Negative pressure</li> <li>No recirculating room units</li> </ul>	Table 7-1
2.2-2.9.9.2 (2) 2.2-2.6.9.4	On-call staff accommodations (may be located outside NICU)	No recirculating room units	
(1)	accommodations for sleeping & rest		
(a)	space for chair		
(b)	space for bed		
(2)	individually secured storage for personal items		
(3)	communication system		
(4)	at least one toilet, shower & handwashing station	Ventilation: Min. 10 air changes per hour Exhaust	Table 7-1
		Negative pressure	
		No recirculating room units	
2.2-2.9.10	SUPPORT AREAS FOR FAMILIES, PATIENTS & VISITORS		
2.2-2.9.10.1	Family & visitor lounge	Communications:	
2.1-2.10.1	each patient care unit provides access	Public communication	2.1-2.10.1.6
2 1 2 10 1 1/1\	to lounge for family & visitors	services provided in each	
2.1-2.10.1.1(1)	accommodates at minimum 3 chairs & 1 wheelchair space	family & visitor lounge	
2.1-2.10.1.4	designed to minimize impact of noise & activity on patient rooms & staff functions		
2.2-2.9.10.1(2)	immediately accessible* to NICU		

## **Architectural Requirements** 2.2-2.9.10.2 Parent/infant room ☐ check if not included in project (3) (only if all NICU rooms are single-infant rooms) provided in NICU that allows parents & infants extended private time together communication linkage with NICU staff (1)(b)(1)(d)sleeping facilities for at least one parent (1)(e)sufficient space for infant's bed & equipment direct private access to sink, shower & (1)(a)toilet facilities 2.2-2.6.10.2 Place for meditation, bereavement & prayer 2.1-6.2.5 dedicated space accessible to the public **SPECIAL DESIGN ELEMENTS** 2.2-2.9.7 2.2-2.9.7.1 Architectural Details: \_\_\_ ceilings easily cleanable & non-friable (1)(a)ceiling construction limit passage of (1)(b)particles from above ceiling plane into clinical environment wall sound isolation complies with (2)Table 1.2-6 floor sound isolation complies with (3)Table 1.2-6 2.2-2.9.7.2 Lighting: \_\_\_ indirect lighting & high-intensity lighting (1) in NICU (2)color rendering index min. 80 \_\_\_ full-spectrum color index min. 55 \_\_\_ gamut area of no less than 65 & no

station

(3)

(4)

(5)(a)

### **Building Systems Requirements**

check if <u>not</u> included in project y if all NICU rooms are single-infant rooms)		
provided in NICU that allows parents & infants extended private time together communication linkage with NICU staff sleeping facilities for at least one parent sufficient space for infant's bed & equipment	Ventilation: Min. 4 air changes per hour Lighting: General lighting Lighting for NICU bed permits staff observation of patient minimizes glare Power:	Table 7-1 2.1-8.3.4.3(1) (c)
	Min. 16 receptacles in total convenient to head of bed	Table 2.1-1
	Nurse Call System:  Patient station  Staff assistance station  Emergency call for each bed  Medical Gases:	Table 2.1-2
	3 OX, 3 VAC, 3 MA per bed	Table 2.1-3
direct private access to sink, shower & toilet facilities	Ventilation: Min. 10 air changes per hour Exhaust Negative pressure No recirculating room units	Table 7-1
ce for meditation, bereavement & prayer dedicated space accessible to the public	No recirculating room units	
hitectural Details: ceilings easily cleanable & non-friable ceiling construction limit passage of particles from above ceiling plane into clinical environment wall sound isolation complies with Table 1.2-6 floor sound isolation complies with Table 1.2-6 nting: indirect lighting & high-intensity lighting in NICU color rendering index min. 80 full-spectrum color index min. 55 gamut area of no less than 65 & no greater than 100 controls be provided to enable lighting to be adjusted over individual patient		
care spaces darkening for body transillumination is available no direct ambient lighting in infant care		

### **Architectural Requirements**

### **Building Systems Requirements**

(5)(b)	any direct ambient lighting outside infant
	care station is located or framed to avoid
	direct line of sight from infant to fixture
(6)	lighting fixtures are cleanable
2.2-2.9.7.3	Noise Control:
	infant rooms, staff work areas, family
	areas, staff lounge & sleeping areas
	meet room noise criteria in Table 1.2-6.1

### \*LOCATION TERMINOLOGY:

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

<u>Adjacent</u>: Located next to but not necessarily connected to the identified area or room <u>Immediately accessible</u>: Available either in or adjacent to the identified area or room

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

### Architectural Details & MEP Requirements

2.1-7.2.2 2.1-7.2.2.1 NFPA 101, 18.2.3.3	ARCHITECTURAL DETAILS CORRIDOR WIDTH:  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  Aisles, corridors & ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear & unobstructed width  CEILING HEIGHT:	(2) (a) (b) (3) (a)	detailed code review incorporated in Project Narrative no floor tracks Door Opening to Patient Rooms: min 45.5" clear door width min 83.5" clear door height swinging doors for personnel use in addition to sliding doors check if not included in project min clear width 34.5" Door Swing: doors do not swing into corridors except doors in behavioral health units & doors
(1)	<ul><li>Min. ceiling height 7'-6" in corridors</li><li>&amp; in normally unoccupied spaces</li></ul>		to non-occupiable spaces (e.g. environmental services rooms &
(2)	Min. ceiling height 9'-0" in seclusion rooms & secure holding rooms		electrical closets) & doors with emergency breakaway
(3)	Min height 7'-6" above floor of		hardware
	suspended tracks rails & pipes located in traffic path for patients in beds & on stretchers	(4)	Lever hardware or push/pull latch hardware
	Min ceiling height 7'-10" in other areas	2.1-7.2.2.7	GLAZING MATERIALS: Glazing within 1 foot 6 inches of floor
2.1-7.2.2.3 (1) (a)	DOORS & DOOR HARDWARE: Door Type: doors between corridors rooms		□ check if <u>not</u> included in project □ must be safety glass wire glass or plastic break-resistant material
	or spaces subject to occupancy swing type or sliding doors	2.1-7.2.2.8 (1)(c)	HANDWASHING STATIONS: Handwashing stations in patient
(b)	sliding doors □ check if <u>not</u> included in project		care areas located so they are visible & unobstructed
	manual or automatic sliding doors comply with NFPA 101	(3)(a)	<ul> <li>Handwashing station countertops made of porcelain stainless steel sol- id-surface materials or impervious plastic laminate assembly</li> </ul>

(b) (4)	<ul> <li>Countertops substrate</li> <li>□ check if <u>not</u> included in project</li> <li><u>marine-grade plywood</u> (or equivalent material) with impervious seal</li> <li>Handwashing station casework</li> <li>□ check if <u>not</u> included in project</li> </ul>		combination AII/PE room  □ check if <u>not</u> included in project anteroom to AII & PE rooms □ check if <u>not</u> included in project soiled workroom & soiled holding room
(5) (a)	designed to prevent storage beneath sink Provisions for drying hands hand-drying device does not require hands to contact dispenser	2.1-7.2.3.2 (1)(a) (1)(b)	WALLS & WALL PROTECTION:  Wall finishes are washable  Wall finishes near plumbing fixtures are smooth, scrubbable & water-resistant Wall surfaces in areas routinely
(b)	<ul><li>hand-drying device is enclosed to protect against dust or soil &amp; to ensure single-unit dispensing</li></ul>	(2)	subjected to wet spray or splatter (e.g environmental services rooms) are monolithic or have sealed seams that
(6)	liquid or foam soap dispensers	(5)	are tight & smooth Wall protection devices & corner
2.1-7.2.2.12 (1)	NOISE CONTROL:  Recreation rooms exercise rooms		guards durable & scrubbable
(1)	equipment rooms & similar spaces	2.1-7.2.3.3	CEILINGS:
	where impact noises may be gener-	(1)	Ceilings provided in all areas
	ated are not located directly over	( )	except mechanical, electrical &
	patient bed areas		communications equipment rooms
	Or Special provisions are made to	(a)	Ceilings cleanable with routine
	<ul> <li>Special provisions are made to minimize impact noise</li> </ul>	(b)	housekeeping equipment  Acoustic & lay-in ceilings where used
	minimize impaet nelee	(b)	do not create ledges or crevices
(2)	Noise reduction criteria in Table 1.2-6		do not create loages of crevices
	applicable to partitions floors & ceiling	2.1-7.2.4.1	Built-In Furnishings:
	construction are met in patient areas		$\square$ check if <u>not</u> included in project
2.1-7.2.2.14	DECORATIVE WATER FEATURES:		upholstered with impervious
(1)	No indoor unsealed water features		materials in patient treatment
(2)	Covered fish tanks		areas
(-)	☐ check if <u>not</u> included in project	2.1-7.2.4.3	Privacy curtains in patient rooms &
	restricted to public areas		other patient care areas are washable
			☐ check if <u>not</u> included in project
2.1-7.2.3	SURFACES		
2.1-7.2.3.1	FLOORING & WALL BASES:	2.1-8.2	HEATING VENTILATION &
(1)	Flooring surfaces cleanable & wear-resistant for location	Part 3/6.1	AIR-CONDITIONING (HVAC) SYSTEMS UTILITIES:
(3)	Smooth transitions provided	Part 3/6.1.1	Ventilation Upon Loss of Electrical
( )	between different flooring materials		Power:
(4)	Flooring surfaces including those on		space ventilation & pressure
(5)	stairways are stable firm & slip-resistant		relationship requirements
(5)	Floors & wall bases of soiled workrooms, toilet rooms & other areas		of Tables 7.1 are maintained for AII Rooms & PE Rooms in event
	subject to frequent wet cleaning are		of loss of normal electrical power
	constructed of materials that are not		•
( <del>-</del> ) ( )	physically affected by cleaning solutions	Part 3/6.1.2	Heating & Cooling Sources:
(7)(a)	Floors are monolithic & integral	Part 3/6.1.2.1	heat sources & essential
	coved wall bases are at least 6" high & tightly sealed to wall in rooms		accessories are provided in number & arrangement sufficient
	listed below:		to accommodate facility needs
	airborne infection isolation (AII)		(reserve capacity) even when any
	room		one of heat sources is not
	protective environment (PE) room □ check if not included in project		operating
	<del></del> , ,	i de la companya de	

Part 3/6.1.2.2	capacity of remaining source or sources is sufficient to provide for domestic hot water & to provide heating for intensive care nursery & inpatient rooms  Central cooling systems greater than 400 tons (1407 kW) peak cooling load □ check if not included in project number & arrangement of cooling sources & essential accessories is sufficient to support owner's facility operation plan upon breakdown or routine maintenance of any one of cooling sources	Part 3/6.3.2.2	exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10'-0" above adjoining roof level exhaust discharge outlets from AII rooms is located not less than 25'-0" horizontally from outdoor air intakes, openable windows/doors & areas that are normally accessible to public
Part 3/6.2 Part 3/6.2.1	AIR-HANDLING UNIT (AHU) DESIGN:  AHU casing is designed to prevent water intrusion resist corrosion & permit access	Part 3/6.4 a.	FILTRATION:  —— Particulate matter filters, min. MERV-8 provided upstream of first heat exchanger surface of any airconditioning system that combines
Part 3/6.3	OUTDOOR AIR INTAKES & EXHAUST		return air from multiple rooms or
Part 3/6.3.1 Part 3/6.3.1.1	Outdoor Air Intakes:  located such that shortest distance from intake to any specific potential outdoor contaminant source be equal to or greater than separation distance listed in Table 6-1  located min of 25 ft from cooling towers & all exhaust & vent discharges air intakes located away from public access all intakes designed to prevent entrainment of wind-driven rain contain features for draining away precipitation equipped with birdscreen of mesh no smaller than 0.5 inches intake in areaway  check if not included in project bottom of areaway air	b. c. d. h. Part 3/6.5 Part 3/6.5.3	introduces outdoor air  Outdoor air filtered in accordance with Table 7-1  Air supplied from equipment serving multiple or different spaces is filtered in accordance with Table 7-1  Air recirculated within room is filtered in accordance with Table 7-1 or Section 7.1(a)(5)  For spaces that do not permit air recirculated by means of room units & have minimum filter efficiency of MERV-14, MERV-16 or HEPA in accordance with Table 7-1, the min. filter requirement listed in Table 7-1 is installed downstream of all wet-air cooling coils & supply fan  HEATING & COOLING SYSTEMS:  Radiant heating systems  check if not included in project ceiling or wall panels with
Part 3/6.3.2 Part 3/6.3.2.1	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  Exhaust Discharges: ductwork within building is under negative pressure for exhaust of	Part 3/6.7 Part 3/6.7.1	exposed cleanable surfaces or radiant floor heating are provided in AII room PE room & burn unit  AIR DISTRIBUTION SYSTEMS:  pressure relationships required in tables 7.1 maintained in all modes of HVAC system operation  Spaces that have required pressure relationships are served by fully
	contaminated air (i.e air from AII rooms)		ducted return systems or fully ducted exhaust systems Inpatient facilities are served by fully ducted return or exhaust systems

Part 3/6.7.2	Air Distribution Devices: supply air outlets comply with Table 6-2		Exhaust air from AII rooms, associated anterooms & toilet rooms: is discharged directly to outdoors
Part 3/6.7.3	Smoke Barriers:  HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.		without mixing with exhaust air from any other non-AII room or exhaust system  or is discharged into the general exhaust stream, provided the
Part 3/6.8	ENERGY RECOVERY SYSTEMS:  ☐ check if not included in project		All exhaust air first passes through a HEPA filter (all exhaust ductwork kept under
Part 3/6.8.1	Located upstream of filters required by Part 3/6.8.4	Part 3/7.2.1	negative pressure)  Exhaust air grille or register in
Part 3/6.8.2	AII room exhaust systems or combination AII/PE rooms are not	1 411 0/7.2.1	patient room is located directly above patient bed on ceiling or on
Part 3/7	used for energy recovery SPACE VENTILATION - HOSPITAL SPACES:		wall near head of bed
Part 3/7.1.a	<ul><li>Spaces ventilated according to Table 7-1</li><li>Air movement is from clean to less-</li></ul>		Anteroom  ☐ check if <u>not</u> included in project
Part 3/7.1.a.1	clean areas		AII room is at negative pressure with respect to anteroom
Part 3/7.1.a.3	<ul> <li>Min number of total air changes</li> <li>required for positive pressure rooms</li> <li>is provided by total supply airflow</li> </ul>		Anteroom is at negative pressure with respect to corridor
	Min number of total air changes required for negative pressure rooms	Part 3/7.2.2	Protective Environment (PE) Rooms  ☐ check if not included in project
Dest 2/7.4 c. F	is provided by total exhaust airflow	Part 3/7.2.2	Supply air diffusers are located above patient bed
Part 3/7.1a.5	<ul> <li>Air recirculation through room unit</li> <li>□ check if <u>not</u> included in project</li> <li>□ complies with Table 7-1</li> <li>□ room unit receive filtered &amp;</li> <li>conditioned outdoor air</li> </ul>		Exhaust grilles or registers are located near patient room door     PE rooms have permanently installed device to constantly
	<ul><li>serve only single space</li><li>provides min MERV 8 filter</li><li>located upstream of any cold</li></ul>		monitor differential air pressure between room & corridor Visual means is provided to indicate whenever positive differential
	surface so that all of air passing over cold surface is filtered	Part 3/7.2.3	pressure is not maintained  Combination Airborne Infectious Isolation/
Part 3/7.2	ADDITIONAL ROOM-SPECIFIC	1 41 67 .2.0	Protective Environment Room (AII/PE)  □ check if not included in project
Part 3/7.2.1	REQUIREMENTS: Airborne Infection Isolation (AII) Rooms  ☐ check if <u>not</u> included in project		<ul><li>Supply air diffusers are located above patient bed</li></ul>
	AII rooms have permanently installed device and/or mechanism to		<ul><li>Exhaust grilles or registers are located near patient room door.</li><li>Anteroom</li></ul>
	constantly monitor differential air pressure between room & corridor		☐ check if <u>not</u> included in project anteroom is at positive pressure
	Local visual means is provided to indicate whenever negative differential		with respect to both AII/PE room & corridor or common space
	pressure is not maintained Air from AII room is exhausted		or
	directly to outdoors		anteroom is at negative pressure with respect to both AII/PE room & corridor or common space

	<ul> <li>First device monitors pressure         differential between AII/PE room &amp;         anteroom         Second device monitors pressure         differential between anteroom &amp;         corridor or common space</li> </ul>		night-lights used by staff that illuminate path from entry to bedside are switched at room entrance night-light color temperature 2,700K or warmer
	Local visual means are provided to indicate whenever differential pressures are not maintained	(2)(a)	<ul> <li>Corridors in patient care units have general illumination with provisions for reducing light levels at night</li> </ul>
2.1-8.3 2.1-8.3.2.2 (1)	Panelboards:  panelboards serving life safety branch circuits serve floors on which they are located & floors immediately above & below	(3)	Exam/treatment rooms: portable or fixed exam light Food & nutrition areas: light sources in kitchen &
(2)	<ul> <li>panelboard critical branch         circuits serve floors on which         they are located         <ul> <li>panelboards not located in exit</li> </ul> </li> </ul>	(7)	diffuser or lens or use fixtures designed to contain fragments  Uplight fixtures installed in patient care areas are covered
2.1-8.3.3	enclosures or exit passageways POWER-GENERATING & -STORING EQUIPMENT	2.1-8.3.5 2.1-8.3.5.1	ELECTRICAL EQUIPMENT: Handwashing sinks that depend on
2.1-8.3.3.1 (1)	Essential electrical system or emergency electrical power essential electrical system		building electrical service for operation are connected to essential electrical system
(2)	complies with NFPA 99 emergency electrical power complies with NFPA 99	2.1-8.3.6 2.1-8.3.6.1	ELECTRICAL RECEPTACLES: Receptacles In Corridors:
2.1-8.3.4 2.1-8.3.4.1(1)	LIGHTING:  Luminaires in patient areas shall have smooth, cleanable, impact-resistant lenses concealing light source	(1)	<ul> <li>duplex-grounded receptacles for general use installed 50'-0" apart or less in all corridors</li> <li>duplex-grounded receptacles for general use installed within 25'-0" of corridor ends</li> </ul>
2.1-8.3.4.1(2)	Luminaires dissipate heat such that touchable surfaces will not burn occupants or ignite materials.	2.1-8.3.6.3	Essential Electrical System Receptacles:
2.1-8.3.4.2 (1) (a)	Patient rooms: provide general level of illumination provide exam level of illumination (may be dimmable & limited to	(1)	<ul> <li>cover plates for electrical receptacles supplied from essential electrical system are distinctively colored or marked for identification</li> <li>same color is used throughout</li> </ul>
(b)	patient care station) no incandescent & halogen		facility
(e)	light sources  light sources are either encapsulated or covered by diffuser or lens or use fixtures designed to contain fragments	2.1-8.4 2.1-8.4.2 2.1-8.4.2.1(3)	PLUMBING SYSTEMS  Plumbing & Other Piping Systems:  no plumbing piping exposed overhead or on walls where possible accumulation of dust or soil may create cleaning problem
(f)	Night-lighting: at least one night-light fixture located in each patient room	2.1-8.4.2.5 (2)	Heated potable water distribution systems: heated potable water distribution systems serving patient care areas are under constant recirculation to provide continuous hot water at each hot water outlet

	non-recirculated fixture branch piping does not exceed 10 feet in length	(2)	sink basins have nominal size of no less than 144 square inches sink basins have min dimension
(3)(a) (3)(c)	no installation of dead-end piping (installation of empty	(3)	9 inches in width or length sink basins are made of
(-)(-)	risers mains & branches for future use is permitted)		porcelain stainless steel or solid-surface materials
(3)(b)	Renovations:	(5)	water discharge point of faucets is at least 10 inches
	<ul><li>☐ check if <u>not</u> included in project</li><li> dead-end piping is removed</li></ul>	(7)	above bottom of basin anchored so that allowable
2.1-8.4.2.6 (1)(a)	Drainage Systems: drainage piping above ceiling of		stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied
	or exposed in rooms listed below piping have special provisions to protect space below from leakage & condensation	(8)	sinks used by medical/nursing staff, patients & public have fittings that can be operated without using hands (may be single-lever or wrist
	<ul><li>operating rooms</li><li>delivery rooms</li><li>procedure rooms</li><li>trauma rooms</li></ul>	(a)	blade devices) blade handles □ check if <u>not</u> included in project
	<ul> <li>trauma rooms</li> <li>nurseries</li> <li>central kitchens</li> <li>one-room sterile processing</li> </ul>	(b)	at least 4 inches in length provide clearance required for operation sensor-regulated water fixtures
	facilities  clean workroom of two-room sterile processing facilities  pharmacies  Class 2 & 3 imaging rooms	(=)	□ check if <u>not</u> included in project <u> </u>
	electronic mainframe rooms     (EFs & TERs)		designed to function at all times & during loss of normal power
	<ul> <li>main switchgear</li> <li>electrical rooms</li> <li>electronic data processing areas</li> </ul>	2.1-8.4.3.4	Ice-Making Equipment: copper tubing provided for supply connections to ice-making equipment
(1)(b)	<ul><li>electric closets</li><li>drip pan for drainage piping</li></ul>	2.1-8.4.3.5	Clinical Sinks:  ☐ check if <u>not</u> included in project
	above ceiling of sensitive area □ check if <u>not</u> included in project accessible	(1) (a)	<ul><li>trimmed with valves that can are operated without hands (may be single-lever or wrist</li></ul>
	overflow drain with outlet located in normally occupied area that is not open to restricted area	(b) (2)	blade devices) handles are at least 6 in long integral trap wherein upper portion of water trap provides
2.1-8.4.3 2.1-8.4.3.1(1)	PLUMBING FIXTURES:  Materials used for plumbing fixtures	2.1-8.4.3.7	visible seal  Human waste disposal systems:
( )	are non-absorptive & acid-resistant	(2)	bedpan washer-disinfector system
2.1-8.4.3.2 (1)	Handwashing Station Sinks:  designed with basins & faucets that reduce risk of splashing to areas where direct patient care is provided, sterile procedures are performed, medications are	(a) (b)	located in soiled workroom electrical & plumbing connections that meet manufacturer requirements are provided
	are performed, medications are prepared or food is prepared	(3)	or disposable bedpan macerator system
		(a)	installed in soiled workroom

(b)	electrical & plumbing connections per manufacturer requirements are provided	2.1-8.6.2	ELECTRONIC SURVEILLANCE SYSTEMS  ☐ check if not included in project
2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS  Station outlets provided as indicated in Table 2.1-3	2.1-8.6.2.1	<ul> <li>Display screens in patient areas are mounted in tamper-resistant enclosure that is unobtrusive</li> <li>Display screens are located so they</li> </ul>
2.1-8.5.1 2.1-8.5.1.1(1) 2.1-8.5.1.1(2)	CALL SYSTEMS  Nurse call stations provided as required in Table 2.1-2  Nurse call systems report to attended location with electronically supervised visual & audible annunciation as	2.1-8.6.2.3	are not readily observable by general public or patients Electronic surveillance systems receive power from essential electrical system
2.1-8.5.1.1(4)	indicated in Table 2.1-2  Call system complies with UL 1069  "Standard for Hospital Signaling & Nurse Call Equipment"		
2.1-8.5.1.1(5)	<ul><li>Wireless nurse call system</li><li>□ check if not included in project</li><li>complies with UL 1069</li></ul>		
2.1-8.5.1.2 (1)	Patient Call Stations:  each patient sleeping bed except nursery beds provided with patient call station equipped for		
(2)(a)	two-way voice communication indicator light that remains lighted as long as voice circuit is operating		
(2)(b) (3)(a)	reset switch for canceling call visible signal in corridor at patient's door Multi-Corridor Patient Areas:  check if not included in project additional visible signals at corridor intersections		
(3)(b)	visible & audible signal at the nurse master station of patient care units or patient care areas		
2.1-8.5.1.2(4)	Nurse call system provided in each patient care area as required in Table 2.1-2		
2.1-8.5.1.5	Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call		