

August 17, 2020

Donna Jerry, Health Care Administrator
Green Mountain Care Board
114 State St
Montpelier, VT 05620

RE: Questions from Green Mountain Care Board provided related to Docket No. GMCB-019-19con CON application to modernize SVMC's emergency department and hospital main entrance

Dear Donna Jerry,

Below find responses to request to provide an FGI checklist.

1. Provide a detailed FGI chart showing compliance with each individual requirement and any waiver(s) sought and reason(s) for the waiver(s).

SVMC will comply with all FGI guidelines that apply to the project. Attached is a checklist of which guidelines apply.

We thank the Green Mountain Care Board for considering this important project.



James Trimarchi, Director Planning
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COMPLIANCE CHECKLIST**IP12 Emergency Services**

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:

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

Instructions:

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

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

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

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

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

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

Facility Name:

DoN Project Number: (if applicable)

Southwestern Vermont Medical Center

Facility Address:

100 Hospital Dr, Bennington, VT 05201

Satellite Name: (if applicable)

Building/Floor Location:

Satellite Address: (if applicable)

Submission Dates:

Project Description:

Initial Date:

Proposed addition and renovations to the existing ED

Revision Date:

Architectural Requirements**Building Systems Requirements**

2.2-3.1

EMERGENCY SERVICES

2.2-3.1.3.2

ENTRANCE

2.1-6.2.1

X Vehicular drop-off & pedestrian entranceX at least one entrance is reachable from grade level(1) X Public roads signs direct ambulance traffic to ambulance entrance to EDX Vehicle traffic to public entrance(2) X Paved emergency access to permit discharge of patients from automobiles & ambulances be provided(3) X ED entrance is clearly marked(4) X Raised platform/dock used for ambulance discharge check if not included in projectX ramp or elevator/lift to grade level provided for pedestrian & wheelchair access(5) X Emergency vehicle entry cover/canopyX provides shelter for both patient & emergency medical crew during transfer between emergency vehicle & building(6) X Emergency bays sized to be compatible with horizontal & vertical vehicle clearances of EMS providers(7) X ED ambulance entrances provide min. 6'-0" in clear width to accommodate stretchers/ gurneys & expanded-capacity stretchers/ gurneys, mobile patient lift devices & accompanying attendants(8) lifts for patients of size are provided
 check if not included in project (only if not required by Patient Handling & Movement Assessment – see Section 1.2-4.3)

2.2-3.1.3.8

X Diagnostic service areas
X access to imaging & laboratory services is provided

2.2-3.1.3.3

RECEPTION & TRIAGE AREASX Emergency department designed to ensure that access control can be maintained at all times(1) X Reception or triage areas located to provide means for observation of main entrance to department & public waiting area

Architectural Requirements

Building Systems Requirements

- (2) X Public access points to treatment area are under direct observation of reception & triage areas
- (3) X Triage area
- (b) X provisions for patient privacy
X handwashing station provided in each triage room
X one handwashing station provided for every 4 triage bays or cubicles
- (d) X hand sanitation station provided for each triage bay or cubicle
- (e) X access to panic button for security emergencies

- Ventilation:
X Min. 12 air changes per hour Table 7.1
X Exhaust
X Negative pressure
- Power:
X Min. 6 receptacles in total Table 2.1-1
X convenient to head of gurney or bed
X At least 50% of receptacles connected to emergency power
- Nurse Call System:
X Patient station Table 2.1-2
X Staff assistance station
- Medical Gases:
X 1 OX, 1 VAC per station Table 2.1-3

2.2-3.1.3.4 **PUBLIC WAITING AREA**

- (1) X Public waiting area
- (a) X toilet facilities
- (b) X provisions for drinking water
- (c) X provisions for telephone access

- Ventilation:
X Min. 12 air changes per hour Table 7.1
X Exhaust
X Negative pressure
- Ventilation:
X Min. 10 air changes per hour Table 7.1
X Exhaust
X Negative pressure
X No recirculating room units

2.2-3.1.3.5 **COMMUNICATIONS WITH EMS**

- (1) X Communication connections to emergency medical services (EMS) be provided
- (2) X EMS base station is provided
 check if not included in project
X designed to reduce noise distractions & interruptions during radio transmissions

2.2-3.1.3.6 **GENERAL TREATMENT ROOMS OR AREAS**

- (1)(b) X Examination/treatment rooms for pelvic exams
X allow for foot of examination table to face away from door
- (2) X Single-patient treatment rooms

2.1-3.2.2.1

- (1) Space Requirements:
New Construction:
X min. clear floor area 120 sf
X min. clear dimension 10'-0"
or
Renovation:
X min. clear floor area 100 sf

- Ventilation:
X Min. 6 air changes per hour Table 7.1
- Lighting:
X Portable or fixed exam light 2.1-8.3.4.3(3)
- Power:
X Min. 8 receptacles in total Table 2.1-1

Architectural Requirements**Building Systems Requirements**

(2)(a)	<input checked="" type="checkbox"/> room size permits room arrangement with min. clearance 3'-0" at each side & at foot of exam table	<input checked="" type="checkbox"/> Min. 4 receptacles convenient to head of gurney or bed	
2.1-3.2.2.2		Nurse Call System:	
(2)	<input checked="" type="checkbox"/> storage for supplies	<input checked="" type="checkbox"/> Staff assistance station	Table 2.1-2
(3)	<input checked="" type="checkbox"/> accommodations for written or electronic documentation	<input checked="" type="checkbox"/> Emergency call station	
(4)	<input checked="" type="checkbox"/> space for visitor's chair	Medical Gases:	
(5)	<input checked="" type="checkbox"/> handwashing station	<input checked="" type="checkbox"/> 1 OX, 1 VAC, 1 MA per gurney	Table 2.1-3
2.2-3.1.3.6(2)(b)	<input checked="" type="checkbox"/> space for medical equipment		
	<input checked="" type="checkbox"/> view panel designed for patient visual privacy adjacent* to and/or in door		
2.2-3.1.3.6(3)	<input type="checkbox"/> Multiple-patient treatment rooms <input checked="" type="checkbox"/> check if <u>not</u> included in project		
2.1-3.2.3.1	Space Requirements:	Ventilation:	
(1)	<input type="checkbox"/> separate patient bays or cubicles with min. clear floor area 80 sf per patient care station	<input type="checkbox"/> Min. 6 air changes per hour	Table 7.1
(2)(a)	<input type="checkbox"/> min. 5'-0" between sides of adjacent* patient beds	Lighting:	
(2)(b)	<input type="checkbox"/> min. 4'-0" between sides of patient beds & adjacent* walls or partitions	<input type="checkbox"/> Portable or fixed exam light	2.1-8.3.4.3(3)
2.1-3.2.3.2(2)	<input type="checkbox"/> accommodations for written or electronic documentation	Power:	
2.1-3.2.3.2(3)	<input type="checkbox"/> space for visitor's chair	<input type="checkbox"/> Min. 8 receptacles in total	Table 2.1-1
2.1-3.2.3.3	<input type="checkbox"/> handwashing station	<input type="checkbox"/> Min. 4 receptacles convenient to head of gurney or bed	
(1)	<input type="checkbox"/> at least one handwashing station in each multiple-patient examination room	Nurse Call System:	
2.1-2.8.7.3(1)	<input type="checkbox"/> at least 1 handwashing station for every 4 patient care stations or fewer & for each major fraction thereof	<input type="checkbox"/> Staff assistance station	Table 2.1-2
2.1-2.8.7.3(2)	<input type="checkbox"/> handwashing stations evenly distributed	<input type="checkbox"/> Emergency call station	
2.1-3.2.3.4	<input type="checkbox"/> supply storage	Medical Gases:	
2.2-3.1.3.7	<input checked="" type="checkbox"/> Patient toilet room	<input type="checkbox"/> 1 OX, 1 VAC, 1 MA per gurney	Table 2.1-3
	<input checked="" type="checkbox"/> at least one for each 6 treatment rooms/spaces & for each fraction thereof	Ventilation:	
	<input checked="" type="checkbox"/> handwashing station	<input checked="" type="checkbox"/> Min. 10 air changes per hour	Table 7.1
		<input checked="" type="checkbox"/> Exhaust	
		<input checked="" type="checkbox"/> Negative pressure	
		<input checked="" type="checkbox"/> No recirculating room units	

Architectural Requirements

Building Systems Requirements

2.2-3.1.3.6(4) **GENERAL TRAUMA/RESUSCITATION ROOMS**

- (a) Designed for emergency procedures
- Single-patient T/R room
- Space Requirements:
- min. clear floor area 250 sf
- min. clearance 5'-0" provided around all sides of gurney
- or**
- (b) Multiple-patient T/R room
- Space Requirements:
- min. clear floor area 200 sf for each patient bay defined by privacy curtains
- min. clearance 5'-0" on all sides of gurney
- min. clearance 10'-0" between each patient bed or gurney
- (c) space for storage of supplies
- PACS film illuminators or other systems to allow viewing of images & films in room

Errata

- handwashing station
- space for code cart
- examination lights
- accommodations for written or electronic documentation
- physiological monitoring equipment
- storage for personal protective equipment

- 2.2-3.1.3.6(4)(e) doorways leading from ambulance entrance to trauma/resuscitation room have min. clear width 72 inches & min. height 83.5 inches

2.2-3.1.3.6(5)(a) **PEDIATRIC TREATMENT ROOMS OR AREAS**

- check if not included in project
- Location:
- pediatric treatment rooms located adjacent* to family waiting area & toilet room

2.2-3.1.3.6(2) Single-patient treatment rooms

- 2.1-3.2.2.1 (1) Space Requirements:
- New Construction:
- min. clear floor area 120 sf
- min. clear dimension 10'-0"
- or**
- Renovation:
- min. clear floor area 100 sf

Ventilation:	
<input checked="" type="checkbox"/> Min. 15 air changes per hour	Table 7.1
<input checked="" type="checkbox"/> Positive pressure	
<input checked="" type="checkbox"/> No recirculating room units	
Lighting:	
<input checked="" type="checkbox"/> Portable or fixed exam light	2.1-8.3.4.3(3)
Power:	
<input checked="" type="checkbox"/> Min. 16 receptacles in total	Table 2.1-1
<input checked="" type="checkbox"/> convenient to head of gurney or bed	
Nurse Call System:	
<input checked="" type="checkbox"/> Staff assistance station	Table 2.1-2
<input checked="" type="checkbox"/> Emergency call station	
Medical Gases:	
<input checked="" type="checkbox"/> 1 O ₂ , 3 VAC, 1 MA per gurney	Table 2.1-3

Architectural Requirements**Building Systems Requirements**

(2)(a)	<input type="checkbox"/> room size permits room arrangement with min. clearance 3'-0" at each side & at foot of exam table	<input type="checkbox"/> Min. 4 receptacles convenient to head of gurney or bed	
2.1-3.2.2.2	<input type="checkbox"/> storage for supplies	Nurse Call System:	
(2)	<input type="checkbox"/> accommodations for written or electronic documentation	<input type="checkbox"/> Staff assistance station	Table 2.1-2
(3)	<input type="checkbox"/> space for visitor's chair	<input type="checkbox"/> Emergency call station	
(4)	<input type="checkbox"/> handwashing station	Medical Gases:	
(5)	<input type="checkbox"/> handwashing station	<input type="checkbox"/> 1 OX, 1 VAC, 1 MA per gurney	Table 2.1-3
2.2-3.1.3.6(2)(b)	<input type="checkbox"/> space for medical equipment		
	<input type="checkbox"/> view panel designed for patient visual privacy adjacent* to and/or in door		
2.2-3.1.3.6(3)	<input type="checkbox"/> Multiple-patient treatment rooms		
	<input checked="" type="checkbox"/> check if <u>not</u> included in project		
2.1-3.2.3.1	Space Requirements:	Ventilation:	
(1)	<input type="checkbox"/> separate patient bays or cubicles with min. clear floor area 80 sf per patient care station	<input type="checkbox"/> Min. 6 air changes per hour	Table 7.1
(2)(a)	<input type="checkbox"/> min. 5'-0" between sides of adjacent* patient beds	Lighting:	
(2)(b)	<input type="checkbox"/> min. 4'-0" between sides of patient beds & adjacent* walls or partitions	<input type="checkbox"/> Portable or fixed exam light	2.1-8.3.4.3(3)
2.1-3.2.3.2(2)	<input type="checkbox"/> accommodations for written or electronic documentation	Power:	
2.1-3.2.3.2(3)	<input type="checkbox"/> space for visitor's chair	<input type="checkbox"/> Min. 8 receptacles in total	Table 2.1-1
2.1-3.2.3.3	<input type="checkbox"/> handwashing station	<input type="checkbox"/> Min. 4 receptacles convenient to head of gurney or bed	
(1)	<input type="checkbox"/> at least one handwashing station in each multiple-patient examination room	Nurse Call System:	
2.1-2.8.7.3(1)	<input type="checkbox"/> at least 1 handwashing station for every 4 patient care stations or fewer & for each major fraction thereof	<input type="checkbox"/> Staff assistance station	Table 2.1-2
2.1-2.8.7.3(2)	<input type="checkbox"/> handwashing stations evenly distributed	<input type="checkbox"/> Emergency call station	
2.1-3.2.3.4	<input type="checkbox"/> supply storage	Medical Gases:	
2.2-3.1.3.7	<input type="checkbox"/> Patient toilet room	<input type="checkbox"/> 1 OX, 1 VAC, 1 MA per gurney	Table 2.1-3
	<input type="checkbox"/> at least one for each 6 treatment rooms/spaces & for each fraction thereof	Ventilation:	
	<input type="checkbox"/> handwashing station	<input type="checkbox"/> Min. 10 air changes per hour	Table 7.1
		<input type="checkbox"/> Exhaust	
		<input type="checkbox"/> Negative pressure	
		<input type="checkbox"/> No recirculating room units	

Architectural Requirements

Building Systems Requirements

- 2.2-3.1.3.6(5)(b) **Pediatric trauma/resuscitation rooms**
- 2.2-3.1.3.6(4) designed for emergency procedures

- (a) single-patient T/R room
 - Space Requirements:
 - min. clear floor area 250 sf
 - min. clearance 5'-0" provided around all sides of gurney
- or**
- (b) multiple-patient T/R room
 - Space Requirements:
 - min. clear floor area 200 sf for each patient bay defined by privacy curtains
 - min. clearance 5'-0" on all sides of gurney
 - min. clearance 10'-0" between each patient bed or gurney

- (c) space for storage of supplies
- PACS film illuminators or other systems to allow viewing of images & films in room

- Ventilation:
 - Min. 15 air changes per hour Table 7.1
 - Positive pressure
 - No recirculating room units
- Lighting:
 - Portable or fixed exam light 2.1-8.3.4.3(3)
- Power:
 - Min. 16 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:
 - 1 OX, 3 VAC, 1 MA per gurney Table 2.1-3

- Errata handwashing station
- space for code cart
- examination lights
- accommodations for written or electronic documentation
- physiological monitoring equipment
- storage for personal protective equipment

- 2.2-3.1.3.6(4)(e) doorways leading from ambulance entrance to trauma/resuscitation room have min. clear width 72 inches & min. height 83.5 inches

- 2.2-3.1.3.6(5)(c) Playroom or play area provided in waiting area

- 2.2-3.1.3.6(6) **TREATMENT ROOM FOR PATIENTS OF SIZE**
- 2.1-2.3.1 Need to provide spaces designed for safe care of patients of size described in Project Narrative

- 2.1-2.3.1.1 (2) Patient Handling & Movement Assessment (PHAMA) including need for expanded capacity lifts & architectural details supporting movement of patients of size is attached to Project Narrative

Architectural Requirements**Building Systems Requirements**

2.1-2.3.1.3	Patient Lift System:		
(1)	<input checked="" type="checkbox"/> accommodations for patient handling provided by either overhead lift system or floor-based full-body sling lift & standing-assist lifts		
(2)	<input checked="" type="checkbox"/> lifts capable of accommodating projected weight of patients of size		
2.1-2.3.7	<input checked="" type="checkbox"/> Single-patient examination or treatment room (may be subdivided with cubicle curtains when not in use for patient of size)		
2.1-2.3.7.2	Space Requirements:	Ventilation:	
(1)(a)	<input checked="" type="checkbox"/> min. 5'-0" clearance at foot of expanded-capacity exam table	<input checked="" type="checkbox"/> Min. 6 air changes per hour	Table 7.1
(1)(b)	<input checked="" type="checkbox"/> min. 5'-0" clearance on non-transfer side of expanded-capacity exam table	Lighting:	
		<input checked="" type="checkbox"/> Portable or fixed exam light	2.1-8.3.4.3(3)
		Power:	
		<input checked="" type="checkbox"/> Min. 8 receptacles in total	Table 2.1-1
		<input checked="" type="checkbox"/> Min. 4 receptacles convenient to head of gurney or bed	
(1)(c)	Clearance on Transfer Side of Expanded Capacity Exam Table:	Nurse Call System:	
	<input type="checkbox"/> ceiling- or wall-mounted lift is provided: min. 5'-0" clearance	<input checked="" type="checkbox"/> Staff assistance station	Table 2.1-2
	or	<input checked="" type="checkbox"/> Emergency call station	
	<input checked="" type="checkbox"/> no ceiling- or wall-mounted lift is provided: min. 7'-0" clearance	Medical Gases:	
2.1-3.2.2.2		<input checked="" type="checkbox"/> 1 OX, 1 VAC, 1 MA per gurney	Table 2.1-3
(2)	<input checked="" type="checkbox"/> storage for supplies		
(3)	<input checked="" type="checkbox"/> accommodations for written or electronic documentation		
(4)	<input checked="" type="checkbox"/> space for visitor's chair		
(5)	<input checked="" type="checkbox"/> handwashing station		
2.2-3.1.3.6(2)(b)	<input checked="" type="checkbox"/> space for medical equipment		
	<input checked="" type="checkbox"/> view panel designed for patient visual privacy adjacent* to and/or in door		
2.1-2.3.8	<input checked="" type="checkbox"/> Equipment & Supply Storage		
	<input checked="" type="checkbox"/> accommodates size of expanded-capacity equipment (e.g. floor-based lifts lift, slings & accessories etc.)		
2.1-2.3.10	Special Design Elements for Spaces for Care of Patients of Size:		
2.1-2.3.10.1	<input checked="" type="checkbox"/> all plumbing fixtures, handrails, grab bars, patient lift equipment, built-in furniture & other furnishings & equipment designed to accommodate maximum planned patient weight		

Architectural Requirements

Building Systems Requirements

- 2.1-2.3.10.2
 (1) X Door Openings: (See Also Page 15)
X min. clear width 45.5" for path of travel
 of expanded-capacity wheelchairs to
 public areas & patient care areas
 (2) X min. clear width 57" to patient rooms
 (3) X min. clear width 45.5" to toilet rooms

- 2.2-3.1.3.6(b) Ceiling-lift or wall-mounted lifts
 check if not included in project
 min. clearance 5'-6" from edge of
 expanded-capacity patient table or
 bed provided on transfer side

- 2.2-3.1.3.7 X Patient toilet room
X at least one for each 6 treatment rooms
 & for each fraction thereof
X handwashing station

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

- 2.2-3.1.3.6(7) **GERIATRIC TREATMENT ROOM OR AREA**
 check if not included in project
 (a) Designed to accommodate needs of
 geriatric patients
 (b) Design of ED geriatric treatment rooms or
 areas is assessed for patient fall risks as
 part of safety risk assessment

- 2.2-3.1.3.6(8) **HUMAN DECONTAMINATION ROOM**
 (a) Location:
 New Construction:
X decon. room provided with
 outside entry door located as far
 as practical but no less than
 10'-0" from closest other entrance
or
 Renovations:
 decontamination room provided
 with outside entry door located
 as far as practical

- X Internal door of decontamination room
 provides direct access into ED corridor or
 treatment room
X Door swings into room
X Door lockable against ingress from corridor

- (b) Space Requirements:
X min. clear floor area 80 sf

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

- (c) Special Architectural Details:
X all smooth nonporous scrubbable non-
 absorptive non-perforated surfaces
X floor self-coving to height of 6 inches

Architectural Requirements

- (d) Special Plumbing System Requirements:
 room equipped with two hand-held shower heads with temperature controls
 floor drain to dedicated holding tank
 acid resistant fixtures
 portable or hard-piped oxygen
 portable suction

2.2-3.1.3.6(9)

FAST-TRACK AREA

- check if not included in project

(2)

___ Single-patient treatment rooms

Space Requirements:

- 2.2-3.1.3.6(9)(a) ___ min. clear floor area 100 sf
 2.1-3.2.2.1(2)(a) ___ room size permits room arrangement with min. clearance 3'-0" at each side & at foot of exam table
- 2.1-3.2.2.2(2) ___ storage for supplies
 2.1-3.2.2.2(3) ___ accommodations for written or electronic documentation
 2.1-3.2.2.2(4) ___ space for visitor's chair
 2.1-3.2.2.2(5) ___ handwashing station
 2.2-3.1.3.6(2)(b) ___ space for medical equipment
 ___ view panel designed for patient visual privacy adjacent* to and/or in door

2.2-3.1.3.6(3)

___ Multiple-patient treatment rooms

- check if not included in project

2.1-3.2.3.1

Space Requirements:

- (1) ___ separate patient bays or cubicles with min. clear floor area 80 sf per patient care station
 (2)(a) ___ min. 5'-0" between sides of adjacent* patient beds
 (2)(b) ___ min. 4'-0" between sides of patient beds & adjacent* walls or partitions
 2.1-3.2.3.2(2) ___ accommodations for written or electronic documentation
 2.1-3.2.3.2(3) ___ space for visitor's chair
 2.1-3.2.3.3 ___ handwashing station
 (1) ___ at least one handwashing station in each multiple-patient examination room
 2.1-2.8.7.3(1) ___ at least 1 handw. station for every 4 patient care stations or fewer & for each major fraction thereof
 2.1-2.8.7.3(2) ___ handwashing stations evenly distributed
 2.1-3.2.3.4 ___ supply storage

Building Systems Requirements

Ventilation:

___ Min. 6 air changes per hour Table 7.1

Lighting:

___ Portable or fixed exam light 2.1-8.3.4.3(3)

Power:

___ Min. 8 receptacles in total Table 2.1-1

___ Min. 4 receptacles convenient to head of gurney or bed

Nurse Call System:

___ Staff assistance station Table 2.1-2

___ Emergency call station

Medical Gases:

___ 1 OX, 1 VAC Table 2.1-3

Ventilation:

___ Min. 6 air changes per hour Table 7.1

Lighting:

___ Portable or fixed exam light 2.1-8.3.4.3(3)

Power:

___ Min. 8 receptacles in total Table 2.1-1

___ Min. 4 receptacles convenient to head of gurney or bed

Nurse Call System:

___ Staff assistance station Table 2.1-2

___ Emergency call station

Medical Gases:

___ 1 OX, 1 VAC per patient Table 2.1-3

Architectural Requirements

Building Systems Requirements

- 2.2-3.1.3.6(9)(b) Waiting area
 - check if not included in project
 - located for immediate access to patient toilet room
 - min. two chairs per treatment room

- 2.2-3.1.3.7 Patient toilet room
 - at least one for each 6 treatment rooms/ spaces & for each fraction thereof
 - handwashing station

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

2.2-3.1.4 **SPECIAL PATIENT CARE AREAS**

- 2.2-3.1.4.2 Airborne infection isolation (AII) room
 - Location:
 - AII room visible from nurse station

- 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
 - edge seals provided along sides & top of doorframe for any door into AII room

- 2.2-3.1.3.6(2) Space Requirements:
 - 2.1-3.2.2.1 (1) New Construction:
 - min. clear floor area 120 sf
 - min. clear dimension 10'-0"
 - or**
 - Renovation:
 - min. clear floor area 100 sf

- Ventilation:
- Min. 12 air changes per hour Table 7.1
 - Exhaust
 - Negative pressure
 - No recirculating room units
 - Exhaust register located Part 3/7.2.1
 - directly above patient bed on ceiling or on wall near head of bed

- (2)(a) room size permits room arrangement with min. clearance 3'-0" at each side & at foot of exam table

- Lighting:
- Portable or fixed exam light 2.1-8.3.4.3(3)
- Power:
- Min. 8 receptacles in total Table 2.1-1

- 2.1-3.2.2.2(2) storage for supplies
- 2.1-3.2.2.2(3) accommodations for written or electronic documentation
- 2.1-3.2.2.2(4) space for visitor's chair
- (5) handwashing station

- Min. 4 receptacles convenient to head of gurney or bed
- Nurse Call System:
- Staff assistance station Table 2.1-2
 - Emergency call station

- 2.2-3.1.3.6(2)(b) space for medical equipment
- view panel designed for patient visual privacy adjacent* to and/or in door

- Medical Gases:
- 1 O₂, 1 VAC, 1 MA per patient Table 2.1-3

Architectural Requirements

Building Systems Requirements

2.2-3.1.4.3

SECURE HOLDING ROOMS

check if not included in project

- (1) X Locations facilitate staff observation & monitoring of patients in these areas
- (2) X Min. clear floor area 60 sf
X Minimum wall length 7'-0"
X Maximum wall length 11'-0"
- (3) X Designed to prevent injury to patients
- (a) X All finishes impact- tamper- & ligature-resistant
X Light fixtures impact- tamper- & ligature-resistant
X Ventilation diffusers & registers impact-tamper- & ligature-resistant
X Sprinklers impact- tamper- & ligature-resistant
- (b) X No electrical outlets
X No medical gas outlets
- (c) X No sharp corners edges or protrusions & walls be free of objects or accessories
- (d) X Patient room doors swing out & have hardware on exterior side only
- (e) X Small impact-resistant view panel or window provided in door for discreet staff observation of patient

Ventilation:

X Min. 6 air changes per hour Table 7.1

2.2-3.1.8

SUPPORT AREAS FOR EMERGENCY DEPARTMENT

- 2.2-3.1.8.2 X Administrative center or nurse station
 - (2) X nurse master station & central monitoring equipment be provided
 - (3) Decentralized nurse stations near clusters of treatment rooms
 check if not included in project
 - (4) visual observation of all traffic into unit & of all patients from 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*

2.1-2.8.2.2

- X Center for reception & communication
 - X self-contained
- or**
- combined with administrative center or nurse station

2.2-3.1.8.11

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

Ventilation:

X Min. 4 air changes per hour Table 7.1
X Positive pressure

Architectural Requirements

Building Systems Requirements

- 2.2-3.1.8.12 Soiled workroom or soiled holding room
 - 2.1-2.8.12.2 soiled workroom
 - (1)(a) handwashing station
 - (1)(b) flushing-rim clinical service sink with bedpan-rinsing device or equivalent flushing-rim fixture
 - (1)(c) work counter
 - (1)(d) space for separate covered containers for waste & soiled linen
 - (2) fluid management system is used
 - check if not included in project
 - (a) electrical & plumbing connections that meet manufacturer requirements
 - (b) space for docking station
- 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

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

- 2.2-3.1.8.13 Equipment & supply storage
- (1) Wheelchair & gurney storage area wheelchairs & gurneys for arriving patients
 - (2) Emergency equipment storage
 - 2.1-2.8.13.4(2) provided under visual observation by staff
 - (3) storage locations in corridors do not encroach on minimum required corridor width

- 2.2-3.1.8.14 Environmental services room
- 2.1-2.8.14.2(1) service sink or floor-mounted mop sink
 - 2.1-2.8.14.2(2) provisions for storage of supplies & housekeeping equipment
 - 2.1-2.8.14.2(3) handwashing station
- or**
- hand sanitation station

- 2.2-3.1.8.16 Security station
- check if not included in project
 - located near emergency entrances & triage/reception area
 - means of observing public waiting areas
 - means of observing ED pedestrian ambulance entrance
 - means of observing ED ambulance entrance
 - means of controlling access

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

Architectural Requirements

Building Systems Requirements

- 2.2-3.1.8.17 (1) Human waste disposal facilities
 - provisions for disposal of solid & liquid waste provided in ED (e.g. clinical sink w/ bedpan-rinsing device in soiled workroom)

- 2.2-3.1.9 **SUPPORT AREAS FOR EMERGENCY DEPARTMENT STAFF**
 - Location:
 - staff support areas immediately accessible* to Emergency Department

- 2.1-2.9.1 Staff lounge
 - min.100 sf
- 2.1-2.9.2 Staff toilet room (permitted to be unisex)
 - 2.1-2.9.2.1 readily accessible* to each patient care unit
 - 2.1-2.9.2.2 toilet & handwashing station

- 2.1-2.9.3 Staff storage facilities
 - 2.1-2.9.3.1 securable closets or cabinet compartments for personal staff articles
 - located in or near nurse station

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

***LOCATION TERMINOLOGY:**

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

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

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

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

Architectural Details & MEP Requirements

- 2.1-7.2.2 **ARCHITECTURAL DETAILS**
 - 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
 - NFPA 101, 18.2.3.4
 - or
 - Detailed code review incorporated in Project Narrative

- Aisles, corridors & ramps in adjunct areas not intended for the housing, treatment, or use of inpatients not less than 44" in clear & unobstructed width
- or
- Detailed code review incorporated in Project Narrative

- 2.1-7.2.2.2 **CEILING HEIGHT:**
 - (1) Min ceiling height 7'-6" in corridors & in normally unoccupied spaces
 - (3) Min. height 7'-6" above floor of suspended tracks, rails & pipes located in traffic path for patients in beds & on stretchers

- X Min. ceiling height 7'-10" in other areas
- 2.1-7.2.2.3 DOORS & DOOR HARDWARE:
- (1) Door Type:
- (a) X doors between corridors, rooms, or spaces subject to occupancy swing type or sliding doors
- (b) X sliding doors
 - check if not included in project
 - X manual or automatic sliding doors comply with NFPA 101
 - X detailed code review included in Project Narrative
 - X no floor tracks
- (2) Door Opening:
- (a) X min. 45.5" clear door width for diagnostic/treatment areas
- X min. 83.5" clear door height for diagnostic/treatment areas
- (b) X swinging doors for personnel use in addition to sliding doors
 - check if not included in project
 - X min. clear width 34.5"
- (3) Door Swing:
- (a) X doors do not swing into corridors except doors to non-occupiable spaces & doors with emergency breakaway hardware
- (4) X Lever hardware or push/pull latch hardware
- (5) Doors for Patient Toilet Facilities:
- (a) two separate doors
 - or**
 - X door that swings outward
 - or**
 - door equipped with emergency rescue hardware (permits quick access from outside the room to prevent blockage of the door)
 - or**
 - sliding door other than pocket door

- (b) toilet room opens onto public area or corridor
 - check if not included in project
 - visual privacy is maintained
- 2.1-7.2.2.7 GLAZING MATERIALS:
 - X Glazing within 1 foot 6 inches of floor
 - check if not included in project
 - X must be safety glass, wire glass or plastic break-resistant material
- 2.1-7.2.2.8 HANDWASHING STATIONS:
- (1)(c) X Handwashing stations in patient care areas located so they are visible & unobstructed
- (3) (a) X Handwashing station countertops made of porcelain, stainless steel, solid-surface materials or impervious plastic laminate assembly
- (b) X Countertops substrate
 - check if not included in project
 - X marine-grade plywood (or equivalent material) with impervious seal
- (4) X Handwashing station casework
 - check if not included in project
 - X designed to prevent storage beneath sink
- (5) X Provisions for drying hands
 - check if not included in project (only at hand scrub facilities)
 - (a) X hand-drying device does not require hands to contact dispenser
 - (b) X hand-drying device is enclosed to protect against dust or soil & to ensure single-unit dispensing
- (6) X Liquid or foam soap dispensers
- 2.1-7.2.2.9 GRAB BARS:
- (1) X Grab bars anchored to sustain concentrated load 250 pounds
- (3) X Ends of grab bars constructed to prevent snagging clothes of patients staff & visitors
- 2.1-7.2.2.10 HANDRAILS:
- (1) X Handrails installed on both sides of patient use corridors
- (3) X Rail ends return to wall or floor
- (4) X Handrail gripping surfaces & fasteners are with 1/8-inch min. radius
- (5) X Handrails have eased edges & corners

- (6) X Handrail finishes are cleanable
- 2.1-7.2.2.12 **NOISE CONTROL:**
- (2) X Noise reduction criteria in Table 1.2-6 applicable to partitions, floors & ceiling construction are met in patient areas

- 2.1-7.2.3 **SURFACES**
- 2.1-7.2.3.1 **FLOORING & WALL BASES:**
- (1) X Flooring surfaces cleanable & wear-resistant for location
- (3) X Smooth transitions provided between different flooring materials
- (4) X Flooring surfaces including those on stairways are stable, firm & slip-resistant
- (5) X 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) X Floors are monolithic & integral coved wall bases are at least 6" high & tightly sealed to wall in rooms listed below
 - X Trauma room
 - X Airborne infection isolation (AII) room & any anteroom

- 2.1-7.2.3.2 **WALLS & WALL PROTECTION:**
- (1)(a) X Wall finishes are washable
- (1)(b) X Wall finishes near plumbing fixtures are smooth, scrubbable & water-resistant
- (2) X Wall surfaces in areas routinely subjected to wet spray or splatter are monolithic or have sealed seams that are tight & smooth
- (5) X Wall protection devices & corner guards durable & scrubbable
- 2.1-7.2.3.3 **CEILINGS:**
- (1) X Ceilings provided in all areas except mechanical, electrical & communications equipment rooms
 - (a) X Ceilings cleanable with routine housekeeping equipment
 - (b) X 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 at least one pound per square foot
 - no perforated, tegular, serrated or highly textured tiles
- or**
- ceilings of monolithic construction

- (3) **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 X 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 X Privacy curtains in patient care areas are washable

- 2.1-8.2 **HEATING VENTILATION & AIR-CONDITIONING (HVAC) SYSTEMS**
- Part 3/6.1 **UTILITIES:**
- Part 3/6.1.1 Ventilation Upon Loss of Electrical Power:
 - X space ventilation & pressure relationship requirements of Table 7.1 are maintained for AII Rooms, Trauma Rooms in event of loss of normal electrical power

Part 3/6.1.2 Part 3/6.1.2.1	<p>Heating & Cooling Sources: <input checked="" type="checkbox"/> heat sources & essential accessories provided in number & arrangement sufficient to accommodate facility needs (reserve capacity) even when any one of heat sources or essential accessories is not operating due to breakdown or routine maintenance <input checked="" type="checkbox"/> capacity of remaining source or sources is sufficient to provide heating for trauma rooms</p>	Part 3/6.3.1.4	<p>intake in areaway <input checked="" type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> bottom of areaway air intake opening is at least 6'-0" above grade <input type="checkbox"/> bottom of air intake opening from areaway into building is at least 3'-0" above bottom of areaway</p>
Part 3/6.1.2.2	<p>Central cooling systems greater than 400 tons (1407 kW) peak cooling load <input checked="" type="checkbox"/> check if <u>not</u> included in project <input type="checkbox"/> number & arrangement of cooling sources & essential accessories is sufficient to support facility operation plan upon breakdown or routine maintenance of any one of cooling sources</p>	Part 3/6.3.2 Part 3/6.3.2.1	<p>Exhaust Discharges for Infectious Exhaust Air: <input type="checkbox"/> check if <u>not</u> included in project <input checked="" type="checkbox"/> ductwork within building is under negative pressure for exhaust of contaminated air (i.e. air from AII rooms) <input checked="" type="checkbox"/> exhaust discharge outlets with contaminated air located such that they reduce potential for recirculation of exhausted air back into building</p>
Part 3/6.2 Part 3/6.2.1	<p>AIR-HANDLING UNIT (AHU) DESIGN: <input checked="" type="checkbox"/> AHU casing is designed to prevent water intrusion, resist corrosion & permit access for inspection & maintenance</p>	Part 3/6.3.2.2	<p><input checked="" type="checkbox"/> exhaust discharge outlets with contaminated air is arranged to discharge to atmosphere in vertical direction at least 10 feet above adjoining roof level <input checked="" type="checkbox"/> exhaust discharge outlets from laboratory work area chemical fume hoods discharge with stack velocity of at least 2500 fpm</p>
Part 3/6.3 Part 3/6.3.1 Part 3/6.3.1.1	<p>OUTDOOR AIR INTAKES & EXHAUST DISCHARGES: Outdoor Air Intakes: <input checked="" type="checkbox"/> located min. of 25'-0" from cooling towers & all exhaust & vent discharges <input checked="" type="checkbox"/> outdoor air intakes located such that bottom of air intake is at least 6'-0" above grade <input checked="" type="checkbox"/> air intakes located away from public access</p>		<p><input checked="" type="checkbox"/> 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</p>
Part 3/6.3.1.3	<p><input checked="" type="checkbox"/> intakes on top of buildings <input type="checkbox"/> check if <u>not</u> included in project <input checked="" type="checkbox"/> located with bottom of air intake min. of 3'-0" above roof level</p>	Part 3/6.4	<p>FILTRATION: <input checked="" type="checkbox"/> Two filter banks for inpatient care (see Table 6.4) <input checked="" type="checkbox"/> Filter Bank No. 1: MERV 7 <input checked="" type="checkbox"/> Filter Bank No. 2: MERV 14 <input checked="" type="checkbox"/> 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</p>
		Part 3/6.4.1	<p><input checked="" type="checkbox"/> Filter Bank No. 1 is placed upstream of heating & cooling coils</p>

- 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:
- Part 3/6.5.3 Radiant heating systems
 - check if not included in project
 - ceiling or wall panels with exposed cleanable surfaces or radiant floor heating are provided in AII room, PE room, OR or procedure room
- Part 3/6.7 AIR DISTRIBUTION SYSTEMS:
- Part 3/6.7.1 Maintain pressure relationships required in tables 7.1 in all modes of HVAC system operation
 - Spaces that have required pressure relationships are served by fully ducted return systems or fully ducted exhaust systems
 - Inpatient facilities & recovery rooms are served by fully ducted return or exhaust systems
- Part 3/6.7.2 Air Distribution Devices:
 - supply air outlets comply with Table 6.7.2
- Part 3/6.7.3 Smoke Barriers:
 - HVAC zones coordinated with compartmentation to minimize ductwork penetrations of fire & smoke barriers.
- Part 3/6.8 ENERGY RECOVERY SYSTEMS:
 - check if not included in project
- 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: ED waiting rooms & triage, ED human decontamination, waste anesthesia gas disposal & soiled holding 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
 - complies with Table 7.1
 - room unit receive filtered & conditioned outdoor air
 - serve only a single space
 - provides min. MERV 6 filter located upstream of any cold surface so that all of air passing over cold surface is filtered
- Part 3/7.2 ADDITIONAL ROOM-SPECIFIC REQUIREMENTS:
- Part 3/7.2.1 Airborne Infection Isolation (AII) Rooms
 - check if not included in project
 - AII rooms have permanently installed device 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
 - 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
- Part 3/7.4.1 Trauma Rooms
 - check if not included in project
 - Each TR has individual temperature control
 - TR 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
- 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 that depends 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
 - non-recirculated fixture branch piping max. length 25'-0"
 - (3)(a) no installation of dead-end piping (except for empty risers mains & branches for future use)
 - (3)(c)

(3)(b)	<u>X</u> any existing dead-end piping is removed <input type="checkbox"/> check if <u>not</u> included in project	(8)	<u>X</u> sinks used by staff, patients, & public have fittings that can be operated without using hands (may be single-lever or wrist blade devices)
(4)(a)	<u>X</u> water-heating system supplies water at temperatures & amounts indicated in Table 2.1-4	(a)	<u>X</u> blade handles <input type="checkbox"/> check if <u>not</u> included in project <u>X</u> at least 4 inches in length <u>X</u> provide clearance required for operation
2.1-8.4.2.6	Drainage Systems:	(b)	<u>X</u> sensor-regulated water fixtures <input type="checkbox"/> check if <u>not</u> included in project <u>X</u> meet user need for temperature & length of time water flows <u>X</u> designed to function at all times and during loss of normal power
(1)(a)	<u>X</u> drainage piping installed above ceiling of or exposed in rooms listed below piping have special provisions (e.g. double wall containment piping or oversized drip pans) to protect space below from leakage & condensation <ul style="list-style-type: none"> • Procedure rooms • Trauma rooms • Electronic data processing areas • Electric closets 	2.1-8.4.3.4	Ice-Making Equipment: <u>X</u> copper tubing provided for supply connections to ice-making equipment
(1)(b)	<u>X</u> drip pan for drainage piping above ceiling of sensitive area <input type="checkbox"/> check if <u>not</u> included in project <u>X</u> accessible <u>X</u> overflow drain with outlet located in normally occupied area that is not open to restricted area	2.1-8.4.3.5	Clinical Flushing-Rim Sinks:
(2)	Floor Drains:	(1)	<u>X</u> trimmed with valves that can be operated without hands (may be single-lever or wrist blade devices)
(a)	<u>X</u> no floor drains in trauma rooms	(a)	<u>X</u> handles are at least 6 in. long
2.1-8.4.3	PLUMBING FIXTURES	(2)	<u>X</u> integral trap wherein upper portion of water trap provides visible seal
2.1-8.4.3.1(1)	<u>X</u> Materials used for plumbing fixtures are non-absorptive & acid-resistant	2.1-8.4.4	MEDICAL GAS & VACUUM SYSTEMS <u>X</u> Station outlets provided as indicated in Table 2.1-3
2.1-8.4.3.2	Handwashing Station Sinks:	2.1-8.5.1	CALL SYSTEMS
(1)	<u>X</u> sinks in handwashing stations are designed with basins that will reduce risk of splashing to areas for direct patient care & medication preparation	2.1-8.5.1.1	(1) <u>X</u> Nurse call stations provided as required in Table 2.1-2
(2)	<u>X</u> sink basins have nominal size of no less than 144 square inches <u>X</u> sink basins have min. dimension 9 inches in width or length	(2)	<u>X</u> Nurse call systems report to attended location with electronically supervised visual & audible annunciation as indicated in Table 2.1-2
(3)	<u>X</u> sink basins are made of porcelain, stainless steel or solid-surface materials	(4)	<u>X</u> Call system complies with UL 1069 "Standard for Hospital Signaling & Nurse Call Equipment"
(5)	<u>X</u> water discharge point min. 10" above bottom of basin	(5)	Wireless nurse call system <input type="checkbox"/> check if <u>not</u> included in project ___ complies with UL 1069
(7)	<u>X</u> anchored so that allowable stresses are not exceeded where vertical or horizontal force of 250 lbs. is applied	2.1-8.5.1.3	Bath Stations: <u>X</u> bath station that can be activated by patient lying on floor provided at each patient toilet

- (1) X alarm in these areas can be turned off only at bath station where it was initiated
- (3) X 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 X Emergency call stations are equipped with continuous audible or visual confirmation to person who initiated the code call
- 2.1-8.5.3 **EMERGENCY COMMUNICATION SYSTEM**
- X Emergency-radio communication system provided in each facility
- 2.1-8.5.3.1 X operates independently of building's service & emergency power systems during emergencies
- 2.1-8.5.3.2 X frequency capabilities to communicate with state emergency communication networks
- 2.1-8.6.2 **ELECTRONIC SURVEILLANCE SYSTEMS**
- check if not included in project
- 2.1-8.6.2.2 X monitoring devices are located so they are not readily observable by general public or patients
- 2.1-8.6.2.3 X electronic surveillance systems receive power from essential electrical system