

Contents

Preface	xiv	1.2-1.3	Environment of Care and Facility Function Considerations	
Acknowledgments	xix			
Major Additions and Revisions	xxiv	1.2-2	Functional Program	14
Glossary	xxix	1.2-2.1	Functional Program Requirement	
List of Acronyms	xxxiii	1.2-2.2	Functional Program Outline	
		1.2-2.3	Nomenclature	
		1.2-2.4	Use	
Part 1 General	1	1.2-3	Infection Control Risk Assessment	17
1.1 Introduction	3	1.2-3.1	General	
1.1-1 General	3	1.2-3.2	ICRA Considerations	
1.1-1.1 Application		1.2-3.3	Compliance Elements	
1.1-1.2 About this Document		1.2-3.4	Infection Control Risk Mitigation	
1.1-1.3 How to Use These Guidelines		1.2-4	Patient Safety Risk Assessment	20
1.1-2 Interpretations of Requirements	5	1.2-5	Patient Handling and Movement Assessment	20
1.1-2.1 Purpose of Interpretation		1.2-5.1	General	
1.1-2.2 Requesting an Interpretation		1.2-5.2	PHAMA Process	
1.1-3 Renovation	6	1.2-6	Design Considerations and Requirements	24
1.1-3.1 Compliance Requirements		1.2-6.1	Acoustic Design	
1.1-3.2 Affected Areas		1.2-6.2	Sustainable Design	
1.1-3.3 Unaffected Areas		1.2-6.3	Wayfinding	
1.1-3.4 Functional Requirements and Safety		1.2-6.4	Bariatric-Specific Design Considerations	
1.1-3.5 Conversion		1.2-6.5	Provisions for Disasters	
1.1-3.6 Undiminished Safety		1.2-7	Renovation	32
1.1-3.7 Long-Range Improvement		1.2-7.1	Phasing	
1.1-4 Government Regulations	6	1.2-7.2	Isolation	
1.1-4.1 Design Standards for the Disabled		1.2-7.3	Maintenance of Air Quality and Utilities	
1.1-4.2 Regulations for Wind- and Earthquake-Resistant Design for New Buildings		1.2-7.4	Nonconforming Conditions	
1.1-4.3 Flood Protection		1.2-7.5	Existing Conditions	
1.1-4.4 National Standards for the Protection of Patient Health Information		1.2-8	Commissioning	33
1.1-4.5 Environmental Regulations		1.2-8.1	HVAC Systems	
1.1-5 Building Codes and Standards	8	1.2-8.2	Plumbing Systems	
1.1-5.1 Safe Environment		1.2-9	Record Drawings and Manuals	35
1.1-5.2 Code Compliance		1.2-9.1	Drawings	
1.1-5.3 Equivalency		1.2-9.2	Equipment Manuals	
1.1-5.4 English/Metric Measurements		1.2-9.3	Design Data	
1.1-5.5 Referenced Codes and Standards		1.3 Site	39	
1.2 Planning, Design, Construction, and Commissioning	13	1.3-1	General	39
1.2-1 General	13	1.3-1.1	Application	
1.2-1.1 Application		1.3-2	Location	39
1.2-1.2 Planning, Design, and Implementation Process		1.3-2.1	Access	
		1.3-2.2	Availability of Transportation	
		1.3-2.3	Security	
		1.3-2.4	Availability of Utilities	

CONTENTS

1.3-3	Site Features	39	2.1-5.4	Waste Management Facilities	
1.3-3.1	Roads		2.1-5.5	Environmental Services	
1.3-3.2	Pedestrian Walkways		2.1-5.6	Engineering and Maintenance Services	
1.3-3.3	Parking		2.1-6	Public and Administrative Areas	55
1.3-3.4	Emergency Access		2.1-6.1	Public Areas	
1.3-3.5	Landscape Design Features		2.1-6.2	Administrative Areas	
1.3-3.6	Transfer Support Features		2.1-6.3	Support Areas for Employees and Volunteers	
1.3-4	Environmental Pollution Control	41	2.1-7	Design and Construction Requirements	56
1.4	Equipment	43	2.1-7.1	Building Codes and Standards	
1.4-1	General	43	2.1-7.2	Architectural Details, Surfaces, and Furnishings	
1.4-1.1	Application		2.1-8	Building Systems	63
1.4-1.2	Equipment List		2.1-8.1	Reserved	
1.4-1.3	Drawing Requirements		2.1-8.2	Heating, Ventilation, and Air-Conditioning Systems	
1.4-2	Equipment Classification	43	2.1-8.3	Electrical Systems	
1.4-2.1	Building Service Equipment		2.1-8.4	Plumbing Systems	
1.4-2.2	Fixed Equipment		2.1-8.5	Communications Systems	
1.4-2.3	Movable Equipment		2.1-8.6	Electronic Safety and Security Systems	
1.4-3	Equipment Requirements	44	2.1-8.7	Special Systems	
1.4-3.1	Major Technical Equipment		2.2	Specific Requirements for General Hospitals	89
1.4-3.2	Electronic Equipment		2.2-1	General	89
1.4-4	Space Requirements for Equipment	44	2.2-1.1	Application	
1.4-4.1	Fixed and Building Service Equipment		2.2-1.2	Functional Program	
1.4-4.2	Movable Equipment		2.2-1.3	Site	
Part 2	Hospitals	45	2.2-2	Nursing Units	89
2.1	Common Elements for Hospitals	47	2.2-2.1	General	
2.1-1	General	47	2.2-2.2	Medical/Surgical Nursing Unit	
2.1-1.1	Application		2.2-2.3	Oncology Nursing Unit	
2.1-1.2	Functional Program		2.2-2.4	Pediatric and Adolescent Oncology Nursing Unit	
2.1-1.3	Site		2.2-2.5	Intermediate Care Unit	
2.1-2	Nursing Units and Other Patient Care Areas	47	2.2-2.6	Critical Care Unit	
2.1-2.1	General		2.2-2.7	Coronary Critical Care Unit	
2.1-2.2	Patient Room		2.2-2.8	Combined Medical/Surgical Critical Care and Coronary Care Unit	
2.1-2.3	Reserved		2.2-2.9	Pediatric Critical Care Unit	
2.1-2.4	Special Patient Care Rooms		2.2-2.10	Newborn Intensive Care Unit	
2.1-2.5	Support Areas for Patient Care—General		2.2-2.11	Obstetrical Unit	
2.1-2.6	Support Areas for Nursing Units and Other Patient Care Areas		2.2-2.12	Nursery Unit	
2.1-2.7	Support Areas for Staff		2.2-2.13	Pediatric and Adolescent Unit	
2.1-2.8	Support Areas for Families, Patients, and/or Visitors		2.2-2.14	Psychiatric Nursing Unit	
2.1-3	Diagnostic and Treatment Locations	53	2.2-2.15	In-Hospital Skilled Nursing Unit	
2.1-3.1	Reserved		2.2-2.16	Bariatric Care Unit	
2.1-3.2	Examination/Treatment Room or Area		2.2-3	Diagnostic and Treatment Locations	125
2.1-4	Patient Support Services	54	2.2-3.1	Emergency Services	
2.1-5	General Support Services and Facilities	54	2.2-3.2	Freestanding Emergency Care Facility	
2.1-5.1	Central Services		2.2-3.3	Surgical Services	
2.1-5.2	Linen Services		2.2-3.4	Diagnostic Imaging Services	
2.1-5.3	Materials Management Facilities		2.2-3.5	Interventional Imaging Services	
			2.2-3.6	Nuclear Medicine Services	
			2.2-3.7	Rehabilitation Therapy Service	
			2.2-3.8	Respiratory Therapy Service	
			2.2-3.9	Renal Dialysis Services	

2.2-3.10	Cancer Treatment/Infusion Therapy Service		2.3-4.3	Reserved	
2.2-3.11	Gastrointestinal Endoscopy Service		2.3-5	General Support Services and Facilities	182
2.2-3.12	Hyperbaric Suite		2.3-5.1	Reserved	
2.2-4	Patient Support Services	161	2.3-5.2	Reserved	
2.2-4.1	Laboratory Services		2.3-5.3	Reserved	
2.2-4.2	Pharmacy Services		2.3-5.4	Waste Management Facilities	
2.2-4.3	Dietary Services		2.3-5.5	Environmental Services	
2.2-5	General Support Services and Facilities	166	2.3-5.6	Engineering and Maintenance Services	
2.2-5.1	Central Services		2.3-6	Public and Administrative Areas	183
2.2-5.2	Linen Services		2.3-6.1	Public Areas	
2.2-5.3	Materials Management Facilities		2.3-6.2	Administrative Areas	
2.2-5.4	Waste Management Facilities		2.3-6.3	Support Areas for Employees and Volunteers	
2.2-5.5	Environmental Services		2.3-7	Design and Construction Requirements	183
2.2-5.6	Engineering and Maintenance Services		2.3-7.1	Building Codes and Standards	
2.2-5.7	Morgue Facilities		2.3-7.2	Architectural Details	
2.2-6	Public and Administrative Areas	171	2.3-8	Building Systems	183
2.2-6.1	Public Areas		2.3-8.1	Reserved	
2.2-6.2	Administrative Areas		2.3-8.2	Heating, Ventilation, and Air-Conditioning Systems	
2.2-6.3	Support Areas for Employees and Volunteers		2.3-8.3	Electrical Systems	
2.2-7	Design and Construction Requirements	171	2.3-8.4	Plumbing Systems	
2.2-8	Building Systems	171	2.3-8.5	Reserved	
2.2-8.1	Reserved		2.3-8.6	Electronic Safety and Security Systems	
2.2-8.2	Heating, Ventilation, and Air-Conditioning Systems		2.3-8.7	Special Systems	
2.2-8.3	Electrical Systems				
2.2-8.4	Plumbing Systems				
2.2-8.5	Communications Systems				
2.2-8.6	Electronic Safety and Security Systems				
2.2-8.7	Special Systems				
2.3	Specific Requirements for Small Primary Care Hospitals	175	2.4	Specific Requirements for Critical Access Hospitals (Reserved)	185
2.3-1	General	175	2.5	Specific Requirements for Psychiatric Hospitals	187
2.3-1.1	Application		2.5-1	General	187
2.3-1.2	Functional Program		2.5-1.1	Application	
2.3-1.3	Site		2.5-1.2	Functional Program	
2.3-1.4	Transfer and Service Agreements		2.5-1.3	Site	
2.3-2	Nursing Unit	176	2.5-1.4	Shared Services	
2.3-2.1	General		2.5-1.5	Environment of Care	
2.3-2.2	Small Hospital Nursing Unit		2.5-2	Nursing Units	189
2.3-3	Diagnostic and Treatment Services	179	2.5-2.1	General	
2.3-3.1	General		2.5-2.2	General Psychiatric Nursing Unit	
2.3-3.2	Examination/Treatment Room and Area		2.5-2.3	Child Psychiatric Unit	
2.3-3.3	Emergency Services		2.5-2.4	Geriatric, Alzheimer's, and Other Dementia Unit	
2.3-3.4	Surgical Services		2.5-2.5	Forensic Psychiatric Unit	
2.3-3.5	Imaging Services		2.5-3	Diagnostic and Treatment Locations	193
2.3-3.6	Telemedicine Service		2.5-3.1	Examination/Treatment Room	
2.3-3.7	Additional Diagnostic and Treatment Services		2.5-3.2	Imaging Suite	
2.3-4	Patient Support Services	182	2.5-3.3	Nuclear Medicine	
2.3-4.1	Laboratory Services		2.5-3.4	Rehabilitation Therapy Services	
2.3-4.2	Reserved		2.5-4	Patient Support Services	196
			2.5-4.1	Laboratory Service	
			2.5-4.2	Pharmacy Services	
			2.5-4.3	Dietary Services	

CONTENTS

2.5-5	General Support Services and Facilities	197	2.6-6	Public and Administrative Areas	211
2.5-5.1	Central Services		2.6-6.1	Public Areas	
2.5-5.2	Linen Services		2.6-6.2	Administrative Areas	
2.5-5.3	Materials Management Facilities		2.6-6.3	Support Areas for Employees and Volunteers	
2.5-5.4	Waste Management Facilities		2.6-7	Design and Construction Requirements	212
2.5-5.5	Environmental Services		2.6-7.1	Building Codes and Standards	
2.5-5.6	Engineering and Maintenance Services		2.6-7.2	Architectural Details, Surfaces, and Furnishings	
2.5-6	Public and Administrative Areas	197	2.6-8	Building Systems	214
2.5-6.1	Public Areas		2.6-8.1	Reserved	
2.5-6.2	Administrative Areas		2.6-8.2	Heating, Ventilation, and Air-Conditioning Systems	
2.5-6.3	Support Areas for Staff and Volunteers		2.6-8.3	Electrical Systems	
2.5-7	Design and Construction Requirements	197	2.6-8.4	Plumbing	
2.5-7.1	Building Codes and Standards		2.6-8.5	Communications Systems	
2.5-7.2	Architectural Details, Surfaces, and Furnishings		2.6-8.6	Electronic Safety and Security Systems	
2.5-8	Building Systems	199	2.6-8.7	Special Systems	
2.5-8.1	Application				
2.5-8.2	Heating, Ventilation, and Air-Conditioning Systems				
2.5-8.3	Electrical Systems				
2.5-8.4	Plumbing Systems				
2.5-8.5	Communications Systems				
2.5-8.6	Electronic Safety and Security Systems				
2.5-8.7	Special Systems				
2.6	Specific Requirements for Rehabilitation Hospitals and Other Facilities	203	Part 3	Ambulatory Care Facilities	215
2.6-1	General	203	3.1	Common Elements for Outpatient Facilities	217
2.6-1.1	Application		3.1-1	General	217
2.6-1.2	Functional Program		3.1-1.1	Application	
2.6-1.3	Site		3.1-1.2	Functional Program	
2.6-2	Nursing Unit and Living Areas	203	3.1-1.3	Site	
2.6-2.1	General		3.1-2	Reserved	
2.6-2.2	Rehabilitation Nursing Unit		3.1-3	Diagnostic and Treatment Locations	218
2.6-2.3	Patient Living Areas		3.1-3.1	General	
2.6-3	Diagnostic and Treatment Locations	206	3.1-3.2	Examination and Treatment Rooms	
2.6-3.1	Medical Evaluation Unit		3.1-3.3	Reserved	
2.6-3.2	Other Required Units		3.1-3.4	Special Patient Care Rooms	
2.6-3.3	Optional Units		3.1-3.5	Support Areas for Patient Care—General	
2.6-4	Patient Support Services	209	3.1-3.6	Support Areas for Examination and Treatment Rooms	
2.6-4.1	Laboratory Service		3.1-3.7	Reserved	
2.6-4.2	Pharmacy Services		3.1-3.8	Support Areas for Patients	
2.6-4.3	Dietary Services		3.1-3.9	Diagnostic Imaging Services	
2.6-4.4	Home Health Service		3.1-4	Patient Support Services	223
2.6-5	General Support Services and Facilities	211	3.1-4.1	Laboratory Services	
2.6-5.1	Reserved		3.1-5	General Support Services and Facilities	223
2.6-5.2	Linen Services		3.1-5.1	Reserved	
2.6-5.3	Reserved		3.1-5.2	Linen Services	
2.6-5.4	Waste Management Facilities		3.1-5.3	Materials Management Facilities	
2.6-5.5	Environmental Services		3.1-5.4	Waste Management Facilities	
2.6-5.6	Engineering and Maintenance Services		3.1-5.5	Environmental Services	
2.6-5.7	Sterilization Facilities		3.1-5.6	Engineering Services and Maintenance	
			3.1-6	Public and Administrative Areas	226
			3.1-6.1	Public Areas	
			3.1-6.2	Administrative Areas	
			3.1-6.3	Support Areas for Staff	

3.1-7	Design and Construction Requirements	227	3.3-4	Patient Support Services	246
3.1-7.1	Building Codes and Standards		3.3-4.1	Laboratory Services	
3.1-7.2	Architectural Details, Surfaces, and Furnishings		3.3-5	Reserved	
3.1-8	Building Systems	230	3.3-6	Public and Administrative Areas	246
3.1-8.1	Reserved		3.3-6.1	Public Areas	
3.1-8.2	Heating, Ventilation, and Air-Conditioning Systems		3.3-6.2	Administrative Areas	
3.1-8.3	Electrical Systems		3.3-6.3	Support Areas for Staff	
3.1-8.4	Plumbing Systems		3.3-7	Design and Construction Requirements	247
3.1-8.5	Communications Systems		3.3-7.1	Building Codes and Standards	
3.1-8.6	Electronic Safety and Security System		3.3-8	Building Systems	247
3.1-8.7	Special Systems		3.3-8.1	General	
			3.3-8.2	Heating, Ventilation, and Air-Conditioning Systems	
			3.3-8.3	Electrical Systems	
			3.3-8.4	Plumbing Systems	
3.2	Specific Requirements for Primary Care Outpatient Centers	243	3.4	Specific Requirements for Freestanding Outpatient Diagnostic and Treatment Facilities	249
3.2-1	General	243	3.4-1	General	249
3.2-1.1	Application		3.4-1.1	Application	
3.2-1.2	Functional Program				
3.2-1.3	Site		3.5	Specific Requirements for Freestanding Urgent Care Facilities	251
3.2-2	Reserved		3.5-1	General	251
3.2-3	Diagnostic and Treatment Locations	243	3.5-1.1	Application	
3.2-3.1	Reserved		3.5-1.2	Reserved	
3.2-3.2	Examination and Treatment Rooms		3.5-1.3	Site	
3.2-3.3	Imaging Facilities		3.5-2	Reserved	
3.2-4	Patient Support Services	243	3.5-3	Diagnostic and Treatment Locations	251
3.2-4.1	Laboratory Services		3.5-3.1	Reserved	
3.2-5	Reserved		3.5-3.2	Examination and Treatment Rooms	
3.2-6	Public and Administrative Areas	243	3.5-3.3	Procedure Room	
3.2-6.1	Public Areas		3.5-3.4	Reserved	
3.2-6.2	Administrative Areas		3.5-3.5	Support Areas for Patient Care—General	
3.2-6.3	Support Areas for Staff		3.5-3.6	Support Areas for Diagnostic and Treatment Locations	
3.2-7	Reserved		3.5-3.7	Support Areas for Staff	
3.2-8	Building Systems	244	3.5-3.8	Reserved	
3.2-8.1	Reserved		3.5-3.9	Imaging Services	
3.2-8.2	Heating, Ventilation, and Air-Conditioning Systems		3.5-4	Patient Support Services	253
3.2-8.3	Reserved		3.5-4.1	Laboratory Services	
3.2-8.4	Plumbing		3.5-5	Reserved	
3.3	Specific Requirements for Small Primary Care (Neighborhood) Outpatient Facilities	245	3.5-6	Public and Administrative Areas	253
3.3-1	General	245	3.5-6.1	Public Areas	
3.3-1.1	Application		3.5-6.2	Administrative Areas	
3.3-1.2	Reserved		3.5-6.3	Support Areas for Staff	
3.3-1.3	Site		3.5-7	Design and Construction Requirements	254
3.3-2	Reserved		3.5-7.1	Reserved	
3.3-3	Diagnostic and Treatment Locations	245	3.5-7.2	Architectural Details	
3.3-3.1	Reserved				
3.3-3.2	Examination and Treatment Rooms				
3.3-3.3	Diagnostic Services				

CONTENTS

3.5-8	Building Systems	254	3.7-7.2	Architectural Details, Surfaces, and Furnishings	
3.5-8.1	Reserved		3.7-8	Building Systems	270
3.5-8.2	Heating, Ventilation, and Air-Conditioning Systems		3.7-8.1	Reserved	
3.5-8.3	Electrical Systems		3.7-8.2	Heating, Ventilation, and Air-Conditioning Systems	
3.5-8.4	Plumbing Systems		3.7-8.3	Electrical Systems	
3.6	Specific Requirements for Freestanding Cancer Treatment Facilities	255	3.7-8.4	Plumbing Systems	
3.6-1	General	255	3.7-8.5	Communications Systems	
3.6-1.1	Reserved		3.7-8.6	Electronic Safety and Security Systems	
3.6-1.2	Functional Program		3.8	Specific Requirements for Office Surgical Facilities	271
3.6-1.3	Site		3.8-1	General	271
3.6-2	Reserved		3.8-1.1	Application	
3.6-3	Diagnostic and Treatment Locations	255	3.8-1.2	Size	
3.6-3.1	Reserved		3.8-2	Reserved	
3.6-3.2	Cancer Treatment Area		3.8-3	Diagnostic and Treatment Locations	271
3.6-3.3	Reserved		3.8-3.1	Reserved	
3.6-3.4	Special Patient Treatment Rooms		3.8-3.2	Reserved	
3.6-3.5	Reserved		3.8-3.3	Operating Rooms	
3.6-3.6	Support Areas for the Cancer Treatment Facility		3.8-3.4	Recovery Areas	
3.7	Specific Requirements for Outpatient Surgical Facilities	259	3.8-3.5	Support Areas for Patient Care—General	
3.7-1	General	259	3.8-3.6	Support Areas for Operating Rooms	
3.7-1.1	Application		3.8-3.7	Support Areas for Staff	
3.7-1.2	Functional Program		3.8-4	Reserved	
3.7-1.3	Site		3.8-5	General Support Areas and Facilities	272
3.7-2	Reserved		3.8-5.1	Sterilization Facilities	
3.7-3	Diagnostic and Treatment Locations	260	3.8-6	Reserved	
3.7-3.1	General		3.8-7	Design and Construction Requirements	273
3.7-3.2	Examination Room		3.8-7.1	Reserved	
3.7-3.3	Ambulatory Operating Rooms		3.8-7.2	Architectural Details, Surfaces, and Furnishings	
3.7-3.4	Pre- and Post-operative Holding Areas		3.9	Specific Requirements for Gastrointestinal Endoscopy Facilities	275
3.7-3.5	Support Areas for Patient Care—General		3.9-1	General	275
3.7-3.6	Support Areas for Surgical Service Areas		3.9-1.1	Application	
3.7-3.7	Support Areas for Staff		3.9-1.2	Functional Program	
3.7-3.8	Support Areas for Patients		3.9-1.3	Site	
3.7-4	Reserved		3.9-2	Reserved	
3.7-5	General Support Areas and Facilities	267	3.9-3	Diagnostic and Treatment Locations	275
3.7-5.1	Sterilization Facilities		3.9-3.1	Examination Room	
3.7-5.2	Linen Services		3.9-3.2	Endoscopy Procedure Suite	
3.7-5.3	Reserved		3.9-3.3	Pre- and Post-operative Holding Areas	
3.7-5.4	Reserved		3.9-3.4	Reserved	
3.7-5.5	Environmental Services		3.9-3.5	Support Areas for Patient Care—General	
3.7-6	Public and Administrative Areas	268	3.9-3.6	Support Areas for the Procedure Suite	
3.7-6.1	Public Areas		3.9-3.7	Support Areas for Staff	
3.7-6.2	Administrative Areas		3.9-3.8	Support Areas for Patients	
3.7-6.3	Support Areas for Staff		3.9-4	Patient Support Services	279
3.7-7	Design and Construction Requirements	268	3.9-4.1	Laboratory Services	
3.7-7.1	Building Codes and Standards				

3.9-5	General Support Services and Facilities	279	3.11 Specific Requirements for Psychiatric Outpatient Centers	289
3.9-5.1	Instrument Processing and Decontamination Facilities		3.11-1	General
3.9-5.2 through 3.9-5.4	Reserved		3.11-1.1	Application
3.9-5.5	Environmental Services	280	3.11-1.2	Functional Program
3.9-6	Public and Administrative Areas		3.11-1.3	Site
3.9-6.1	Public Areas		3.11-2	Reserved
3.9-6.2	Administrative Areas		3.11-3	Diagnostic and Treatment Areas
3.9-6.3	Support Areas for Staff		3.11-3.1	General
3.9-7	Design and Construction Requirements	281	3.11-3.2	Areas for Patient Services
3.9-7.1	Building Codes and Standards		3.11-3.3	Reserved
3.9-7.2	Architectural Details, Surfaces, and Furnishings		3.11-3.4	Reserved
3.9-8	Building Systems	282	3.11-3.5	Reserved
3.9-8.1	Reserved		3.11-3.6	Support Areas for the Psychiatric Outpatient Center
3.9-8.2	Heating, Ventilation, and Air-Conditioning Systems		3.11-3.7	Support Areas for Staff
3.9-8.3	Reserved		3.11-4	Reserved
3.9-8.4	Plumbing Systems		3.11-5	Reserved
3.9-8.5	Electronic Safety and Security Systems		3.11-6	Public and Administrative Areas
3.10 Specific Requirements for Renal Dialysis Centers	283		3.11-6.1	Public Areas
3.10-1	General	283	3.11-6.2	Administrative Areas
3.10-1.1	Application		3.11-7	Design and Construction Requirements
3.10-1.2	Functional Program		3.11-7.1	Security
3.10-1.3	Site		3.11-7.2	Architectural Details
3.10-2	Reserved		3.12 Specific Requirements for Outpatient Rehabilitation Facilities	293
3.10-3	Diagnostic and Treatment Locations	283	3.12-1	General
3.10-3.1	Examination Room		3.12-1.1	Application
3.10-3.2	Dialysis Treatment Area		3.12-1.2	Functional Program
3.10-3.3	Home Training Room		3.12-1.3	Site
3.10-3.4	Special Patient Care Rooms		3.12-2	Reserved
3.10-3.5	Support Areas for Patient Care—General		3.12-3	Diagnostic and Treatment Locations
3.10-3.6	Support Areas for the Renal Dialysis Treatment Center		3.12-3.1	Reserved
3.10-3.7	Support Areas for Staff		3.12-3.2	Physical/Occupational Therapy Treatment Space
3.10-3.8	Support Areas for Patients		3.12-3.3	Other Patient Care Areas
3.10-4	Reserved		3.12-3.4	Facilities for Other Services
3.10-5	General Support Services and Facilities	286	3.12-3.5	Support Areas for Patient Care—General
3.10-5.1	Dialysis Support Facilities		3.12-3.6	Support Areas for Treatment and Other Patient Care Areas
3.10-6	Public and Administrative Areas	286	3.12-3.7	Reserved
3.10-6.1	Public Areas		3.12-3.8	Support Areas for Patients
3.10-6.2	Administrative Areas		3.12-4	Reserved
3.10-7	Reserved		3.12-5	General Support Services and Facilities
3.10-8	Building Systems	287	3.12-5.1 through 3.12-5.4	Reserved
3.10-8.1	Reserved		3.12-5.5	Environmental Services
3.10-8.2	Heating, Ventilation, and Air-Conditioning Systems		3.12-6	Public and Administrative Areas
3.10-8.3	Reserved		3.12-6.1	Public Areas
3.10-8.4	Plumbing Systems		3.12-6.2	Administrative Areas

CONTENTS

3.12-7	Design and Construction Requirements	296	4.1-8.5	Communications Systems	
3.12-7.1	Reserved		4.1-8.6	Electronic Safety and Security Systems	
3.12-7.2	Architectural Details, Surfaces, and Furnishings		4.1-8.7	Special Systems	
3.12-8	Building Systems	296	4.2	Specific Requirements for Nursing Facilities	325
3.12-8.1	Reserved		4.2-1	General	325
3.12-8.2	Heating, Ventilation, and Air-Conditioning Systems		4.2-1.1	Application	
3.12-8.3	Reserved		4.2-1.2	Functional Program	
3.12-8.4	Plumbing Systems		4.2-1.3	Site	
			4.2-1.4	Renovation	
			4.2-1.5	Planning, Design, Construction, and Commissioning	
			4.2-1.6	Equipment	
Part 4	Residential Health Care Facilities	297	4.2-2	Resident Areas	326
4.1	Common Elements for Residential Health Care Facilities	299	4.2-2.1	Reserved	
4.1-1	General	299	4.2-2.2	Resident Unit	
4.1-1.1	Application		4.2-2.3	Resident Living Areas	
4.1-1.2	Functional Program		4.2-3	Diagnostic and Treatment Locations	331
4.1-1.3	Site		4.2-3.1	Rehabilitation Therapy	
4.1-1.4	Renovation		4.2-4	Patient Support Services	332
4.1-1.5	Planning, Design, Construction, and Commissioning		4.2-4.1	Reserved	
4.1-1.6	Equipment		4.2-4.2	Reserved	
4.1-2	Resident Areas	300	4.2-4.3	Dietary Facilities	
4.1-2.1	General		4.2-5	General Support Services and Facilities	333
4.1-2.2	Resident Unit		4.2-5.1	Reserved	
4.1-2.3	Resident Living Areas		4.2-5.2	Linen Services	
4.1-3	Diagnostic and Treatment Locations	305	4.2-5.3	Reserved	
4.1-3.1	Physical/Occupational Rehabilitation Therapy Provisions		4.2-5.4	Waste Management Facilities	
4.1-4	Patient Support Services	306	4.2-5.5	Environmental Services	
4.1-4.1	Reserved		4.2-5.6	Engineering and Maintenance Services	
4.1-4.2	Reserved		4.2-6	Public and Administrative Areas	334
4.1-4.3	Dietary Facilities		4.2-6.1	Public Areas	
4.1-5	General Support Services and Facilities	306	4.2-6.2	Administrative Areas	
4.1-5.1	Reserved		4.2-7	Design and Construction Requirements	335
4.1-5.2	Linen Services		4.2-8	Building Systems	335
4.1-5.3	Materials Management Facilities		4.3	Specific Requirements for Hospice Facilities	337
4.1-5.4	Waste Management Facilities		4.3-1	General	337
4.1-5.5	Environmental Services		4.3-1.1	Application	
4.1-5.6	Engineering and Maintenance Services		4.3-1.2	Functional Program	
4.1-6	Public and Administrative Areas	307	4.3-1.3	Site	
4.1-7	Design and Construction Requirements	307	4.3-1.4	Renovation	
4.1-7.1	Building Codes and Standards		4.3-1.5	Planning, Design, Construction, and Commissioning	
4.1-7.2	Architectural Details, Surfaces, and Furnishings		4.3-1.6	Equipment	
4.1-8	Building Systems	312	4.3-2	Hospice Areas	337
4.1-8.1	General		4.3-2.1	General	
4.1-8.2	Heating, Ventilation, and Air-Conditioning Systems		4.3-2.2	Hospice Unit	
4.1-8.3	Electrical Systems		4.3-2.3	Resident Living Areas	
4.1-8.4	Plumbing Systems		4.3-3	Diagnostic and Treatment Locations	338
			4.3-3.1	Rehabilitation Therapy	

4.3-4	Patient Support Services	339	4.4-8	Building Systems	348
4.3-4.1	Reserved		4.4-8.1	General	
4.3-4.2	Reserved		4.4-8.2	Heating, Ventilation, and Air-Conditioning Systems	
4.3-4.3	Dietary Facilities		4.4-8.3	Electrical Systems	
4.3-5	Reserved		4.4-8.4	Plumbing Systems	
4.3-6	Reserved		4.4-8.5	Communications Systems	
4.3-7	Design and Construction Requirements	339	4.4-8.6	Fire Alarm and Detection Systems	
4.3-7.1	Building Codes and Standards		4.4-8.7	Special Systems	
4.3-7.2	Architectural Details, Surfaces, and Furnishings				
4.3-8	Building Systems	339	Part 5 Other Health Care Facilities		351
4.3-8.1	Reserved		5.1 Mobile, Transportable, and Relocatable Units		353
4.3-8.2	Heating, Ventilation, and Air-Conditioning Systems		5.1-1	General	353
4.3-8.3	Electrical Systems		5.1-1.1	Application	
4.3-8.4	Plumbing Systems		5.1-1.2	Reserved	
4.3-8.5	Communications Systems		5.1-1.3	Site	
4.3-8.6	Electronic Safety and Security Systems		5.1-2	Reserved	
4.4 Specific Requirement for Assisted Living Facilities		341	5.1-3	Diagnostic and Treatment Locations	355
4.4-1	General	341	5.1-3.1	Mobile Units	
4.4-1.1	Application		5.1-3.2	Transportable Units	
4.4-1.2	Functional Program		5.1-3.3	Relocatable Units	
4.4-1.3	Site		5.1-3.4	Reserved	
4.4-1.4	Renovation		5.1-3.5	Support Areas for Patient Care—General	
4.4-1.5	Planning, Design, Construction, and Commissioning		5.1-3.6	Support Areas for Mobile, Transportable, and Relocatable Units	
4.4-1.6	Equipment		5.1-3.7	Support Areas for Patients	
4.4-2	Resident Living Environment	342	5.1-4	Reserved	
4.4-2.1	General		5.1-5	Reserved	
4.4-2.2	Resident Unit or Private Living Area		5.1-6	Public and Administrative Areas	356
4.4-2.3	Resident Living Areas		5.1-6.1	Public Areas	
4.4-3	Reserved		5.1-7	Design and Construction Requirements	356
4.4-4	Patient Support Services	346	5.1-7.1	Building Codes and Standards	
4.4-4.1	Reserved		5.1-7.2	Architectural Details and Surfaces for Unit Construction	
4.4-4.2	Reserved		5.1-8	Building Systems	358
4.4-4.3	Dietary Services		5.1-8.1	Reserved	
4.4-5	General Support Services and Facilities	346	5.1-8.2	Heating, Ventilation, and Air-Conditioning Systems	
4.4-5.1	Reserved		5.1-8.3	Electrical Systems	
4.4-5.2	Linen Services		5.1-8.4	Plumbing Systems	
4.4-5.3	Reserved		5.1-8.5	Communications Systems	
4.4-5.4	Waste Management Facilities		5.1-8.6	Safety and Security Systems	
4.4-5.5	Environmental Services		5.2 Freestanding Birth Centers		363
4.4-5.6	Engineering and Maintenance Services		5.2-1	General	363
4.4-6	Public and Administrative Areas	347	5.2-1.1	Application	
4.4-6.1	Public Notice Area		5.2-1.2	Functional Program	
4.4-6.2	Private Meeting Space(s)		5.2-1.3	Site	
4.4-7	Design and Construction Requirements	347			
4.4-7.1	Building Codes and Standards				
4.4-7.2	Architectural Details, Surfaces, and Furnishings				

CONTENTS

5.2-2	Birth Center Facilities	364	5.3	Adult Day Health Care Facilities	369
5.2-2.1	General		5.3-1	General	369
5.2-2.2	Birthing Room		5.3-1.1	Application	
5.2-2.3	Newborn Care Area		5.3-1.2	Functional Program	
5.2-2.4	Reserved		5.3-1.3	Site	
5.2-2.5	Support Areas for Mother and Newborn Care—General		5.3-2	Participant Care Locations	369
5.2-2.6	Support Areas for Staff, Mothers, and Newborns		5.3-2.1	Participant Activity Space	
5.2-2.7	Support Areas for Staff		5.3-2.2	Rest or Private Area	
5.2-3	Reserved		5.3-2.3	Dining Area	
5.2-4	Patient Support Services	366	5.3-2.4	Outdoor Area	
5.2-4.1	Reserved		5.3-2.5	Reserved	
5.2-4.2	Reserved		5.3-2.6	Support Areas for Participant Care Locations	
5.2-4.3	Dietary Services		5.3-2.7	Support Areas for Staff	
5.2-5	General Support Areas and Facilities	366	5.3-2.8	Support Areas for Participants	
5.2-5.1	Reserved		5.3-3	Diagnostic and Treatment Locations	371
5.2-5.2	Reserved		5.3-3.1	Treatment Room or Nurse Station	
5.2-5.3	Materials Management Facilities		5.3-3.2	Support Areas for the Treatment Location	
5.2-5.4	Waste Management Facilities		5.3-4	Reserved	
5.2-5.5	Reserved		5.3-5	General Support Services and Facilities	371
5.2-5.6	Engineering and Maintenance Services		5.3-5.1	through 5.3-5.4 Reserved	
5.2-6	Reserved		5.3-5.5	Environmental Services	
5.2-7	Design and Construction Requirements	367	5.3-6	Public and Administrative Areas	372
5.2-7.1	Building Codes		5.3-6.1	Public Areas	
5.2-7.2	Architectural Details and Surfaces		5.3-7	Design and Construction Requirements	372
5.2-8	Building Systems	367	5.3-8	Building Systems	372
5.2-8.1	Reserved		5.3-8.1	General	
5.2-8.2	Heating, Ventilation, and Air-Conditioning Systems		5.3-8.2	Heating, Ventilation, and Air-Conditioning Systems	
5.2-8.3	Electrical Systems		5.3-8.3	Electrical Systems	
5.2-8.4	Plumbing Systems		5.3-8.4	Plumbing Systems	
5.2-8.5	Reserved				
5.2-8.6	Security Systems		Part 6	Ventilation of Health Care Facilities	373
5.2-8.7	Special Systems			ANSI/ASHRAE/ASHE Standard 170-2008: <i>Ventilation of Health Care Facilities</i>	375
			Index		393

List of Tables

Table 1.2-1: Design Room Sound Absorption Coefficients	35
Table 1.2-2: Minimum–Maximum Design Criteria for Noise in Interior Spaces	35
Table 1.2-3: Design Criteria for Minimum Sound Isolation Performance Between Enclosed Rooms	36
Table 1.2-4: Design Criteria for Speech Privacy for Enclosed Rooms and Open-Plan Spaces	36
Table 1.2-5: Maximum Limits on Footfall Vibration in Health Care Facilities	36
Table A1.2-a: Categorization of Health Care Facility Sites by Exterior Ambient Sound	37
Table 2.1-1: Surfaces and Furnishings for a Typical Nursing Unit in a General Hospital	83
Table 2.1-2: Ventilation Requirements for Areas Affecting Patient Care in Hospitals and Outpatient Facilities	84
Table 2.1-3: Electrical Convenience Receptacle Requirements for Clinical Areas	85
Table 2.1-4: Location of Nurse Call Devices	86
Table 2.1-5: Hot Water Use—General Hospital	87
Table 2.1-6: Station Outlets for Oxygen, Vacuum, and Medical Air Systems in Hospitals	88
Table A2.1-a: Sound Transmission Loss or Attenuation Through Horizontal and Vertical Barriers in NICUs	87
Table 3.1-1: Station Outlets for Oxygen, Vacuum, and Medical Air in Outpatient Facilities	242
Table 4.1-1: Ventilation Requirements for Areas Affecting Resident Care in Nursing Facilities	323
Table 4.1-2: Hot Water Use—Nursing Facilities	323
Table 4.1-3: Minimum Maintained Average Illuminance	324
Table 5.1-1: Stair Requirements for Mobile and Transportable Units	361