



Section 1

Foreword & Acknowledgments

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Foreword

The material contained in the Ambulatory Care Design Guide is the culmination of a partnering effort within the Department of Veterans Affairs by the Veterans Health Administration and the Office of Construction & Facilities Management, Strategic Management Office. The goal of this Design Guide is to facilitate the design process and to ensure the quality of VA facilities while controlling construction and operating costs.

This document is intended to be used as a guide and to supplement current technical manuals and other VA criteria in planning hospital based Ambulatory Care Clinics. The Design Guide is not to be used as a standard design. Use of this Design Guide does not preclude the need for a functional and physical design program for each specific project. It is the project Architect's and Engineer's responsibility to develop a complete and accurate project design that best meets the users' needs and applicable code requirements.

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Introduction

The Ambulatory Care Design Guide is intended to be a graphic consolidation of existing Department of Veterans Affairs standards and criteria. It contains data from the following sources:

- ADA Standards for Accessible Design
- International Building Code, 2006
- NFPA 101
- Barrier-Free Design Guide PG-18-13
- Design and Construction Procedures PG-18-3
- Equipment Guide List PG-7610
- Equipment Reference Manual PG-18-6
- Fire Protection Design Manual
- Master Construction Specifications PG-18-1
- National CAD Standards and Details PG-18-4
- Physical Security Design Manual (Final Draft)
- Room Finishes, Door and Hardware Schedules PG-18-14
- Seismic Design Requirements H-18-8
- Signage Design Guide
- Space Planning Criteria for VA Facilities, (formerly Handbook 7610)
- Sustainable Design and Energy Reduction Manual (Final Draft)
- VA Technical Criteria (PG-18-10 Design Manuals) pertaining to Architectural, Interior Design, HVAC, Plumbing, and Electrical
- 2006 AIA Guidelines for Design and Construction of Health Care Facilities
- HVAC Design Manual for Hospital Projects
- Emergency Power & Water Supply During Natural Disasters, Phase 2
- Energy Conservation (EPACT 2005 and DOE – Final Rule)
- Energy Conservation (Executive Order No. 13423 Dated January 24, 2007: Strengthening Federal Environmental, Energy, and Transportation Management)
- Memorandum of Understanding (MOU): Federal Leadership in High Performance and Sustainable Buildings.
- Commissioning Guidelines (issuance pending)

The Design Guide refers to the above mentioned sources when data is either too detailed or too broad to be included in this guide. These sources can be accessed at www.va.gov/facmgt/standard.

The Ambulatory Care Design Guide was developed as a design tool to assist the medical center staff and the contracting officers in better understanding the choices that designers ask them to make, and to help designers understand the functional requirements necessary for proper operation of an Ambulatory Care Center based in a VA Hospital.

This Design Guide is not intended to be project-specific. It addresses the general functional and technical requirements for a typical VA Hospital Based Ambulatory Care facility. While this Guide contains information for the vast majority of space types required in Ambulatory Care facilities, it is not possible to foresee all future requirements. The project-specific space program is the basis for an individual project design. It is important to note that the guide plates in Section 4 are generic graphic representations intended as illustrations of VA's furniture, equipment, and personnel space needs. They are not meant to limit design opportunities.

Equipment manufacturers should be consulted for actual dimensions and utility requirements. Use of this Design Guide does not supersede the project architect's and engineers' responsibilities to develop a complete and accurate design that meets the user's needs and the appropriate code requirements within the budget constraints.



Abbreviations

A	Amperes
ABA	Architectural Barriers Act
AC/HR	Air Changes per Hour
ADA	Americans with Disabilities Act
AFF	Above Finished Floor
AI	Acquisition and Installation
AIDS	Acquired Immune Deficiency Syndrome
A & MM	Acquisition and Materiel Management
AR	As Required
AT	Acoustical Ceiling Tile
AT (SP)	Acoustical Ceiling Tile (with Sprayed Plastic Finish)
BC	Base Cabinet
C	Degree Celsius
CBOC	Community Based Outpatient Clinic
CC	Contractor Furnished Contractor Installed
CFM	Cubic Feet per Minute
CLG	Ceiling
CMU	Concrete Masonry Unit
CP	Carpet (without cushion broadloom)
CRS	Corrosion Resisting Steel (SS)
CT	Ceramic Tile
CT	Computerized Tomography
DG	Design Guide
EMS	Environmental Management Service
ER	Emergency Room
ETM	Exam Treatment Module
EtO	Ethylene Oxide Gas
EXH	Exhaust
F	Degrees Fahrenheit
FC	Foot-candle
FD	Floor Drain
FIXT	Fixture
FLUOR	Fluorescent
GFI	Ground Fault Circuit Interrupter
GI	Gastroenterology
GWB	Gypsum Wallboard
GYN	Gynecology
HAC	Housekeeping Aids Closet
HVAC	Heating, Ventilating and Air Conditioning
HP	Horsepower
HR	Hour
ICU	Intensive Care Unit
K	Kelvin
















KW	Kilowatt
LB	Pound/Pounds
LLTS	Lockers, Lounges, Toilets & Showers
MCS	Master Construction Specifications
MOHS	Moh's Chemosurgery
MTD	Mounted
NFPA	National Fire Protection Association
NSF	Net Square Feet
NSM	Net Square Meters
OOCFM	Office of Construction & Facilities Management
OSD	Open Site Drain
PCP	Portland Cement Plaster
PG	Program Guide
PH	Phase
PL	Plaster
PREP	Preparation
PSIG	Pounds per Square Inch Gauge
QT	Quarry Tile
RB	Resilient Base
RSF	Resilient Sheet Flooring
SC	Special Coating (High Build Glazed Coating)
SD	Standard Detail
SF	Square Feet, Square Foot
SOPC	Satellite Outpatient Clinic
SPD	Supply, Processing and Distribution
SRC	Semi-Restricted Corridor
SS	Stainless Steel (CRS)
TELEC	Telecommunications
UC	Urgent Care
UFAS	Uniform Federal Accessibility Standards
V	Volts
VA	Department of Veteran Affairs
VACO	Veterans Affairs Central Office
VAMC	Veterans Affairs Medical Center
VC	VA Furnished Contractor Installed
VCT	Vinyl Composition Tile
VHA	Veterans Health Administration
VV	VA Furnished VA Installed
W	Watts
WSF	Welded Seamless Flooring
W/SF	Watts per Square Foot
W/SM	Watts per Square Meter
W/m ²	Watts per square meter



Legend of Symbols

SYSTEM	DESCRIPTION OF SYMBOLS	SYMBOL
Wiring devices And Power	Duplex receptacle, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Duplex receptacle, NEMA 5-20R-20 amp-mounted 3" (75 mm) above counter top/counter top back splash	
	Duplex receptacle with ground fault interrupter, NEMA 5-20R- 20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Duplex receptacle with ground fault interrupter, NEMA 5-20R- 20 amp-mounted 3" (75 mm) above counter top/counter top back splash	
	Weatherproof while in use duplex receptacle with GFI, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Quadruplex outlet, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted.	
	Quadruplex outlet, NEMA 5-20R-20 amp-mounted 3" (75 mm) above counter top/counter top back splash	
	Quadruplex outlet with ground fault interrupter, NEMA 5- 20R- 20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Quadruplex outlet with ground fault interrupter, NEMA 5-20R- 20 amp- mounted 3" (75 mm) above counter top/counter top back splash	
	Duplex receptacle on emergency power, NEMA 5-20R-20 amp-mounted 18" (450 mm) AFF unless otherwise noted	
	Quadruplex receptacle, NEMA 5-20R-20 amp- emergency power, mounted 18" (450 mm) AFF unless otherwise noted.	
	Special receptacle of the type required, mounted 18" (450 mm) AFF unless otherwise noted.	
	Electrical surface mounted multi-outlet raceway assembly, NEMA 5-20R receptacles at 2'-0" (600 mm) intervals, single or multiple channel as required-mounted 12" (300 mm) above counter.	
	Ceiling Junction box - purpose and location as noted.	
	Junction box in wall-purpose and location as noted, mounted 18" (450 mm) AFF unless otherwise noted.	
	Circuit Breaker- mounted 60" (1500 mm) AFF.	
Electrical, panelboard cabinet, flush mounted, so maximum height of top circuit breaker is no more than 78" (1980 mm) AFF.		

SYSTEM	DESCRIPTION OF SYMBOLS	SYMBOL
Wiring devices switches	Single pole switch- mounted 46" (1150 mm) AFF	S
	Single pole switch - suffix of "a", "b", or "c" indicates separate control of fixture(s) with same designation- mounted 46" (1150 mm) AFF	S ^a
	Dimmer switch- mounted 46" (1150 mm) AFF	S ^D
	Three-way switch- mounted 46" (1150 mm) AFF	S ³
	Door switch- See architectural for mounting location.	
	Emergency power off (EPO) push button- mounted 40" (1000 mm) AFF.	
Lighting Fixtures	2'x2' (600 mm x 600 mm) fluorescent fixture	
	1'x4' (300 mm x 1200 mm) fluorescent fixture	
	2'x4' (600 mm x 1200 mm) fluorescent fixture	
	Wall-mounted fluorescent fixture- mounted 92" (2300 mm) AFF unless otherwise noted.	
	2'x2' (600 mm x 600 mm) fluorescent fixture- emergency power	
	2'x4' (600 mm x 1200 mm) fluorescent fixture- emergency power	
	Recess light fixture	

SYSTEM	DESCRIPTION OF SYMBOLS	SYMBOL
Auxiliary Systems	Telephone data outlet-mounted 18" (450 mm) AFF unless otherwise noted	
	Telephone data outlet-mounted 3" (75 mm) above counter top/counter top back splash	
	Wall-mounted telephone outlet-mounted 48" (1200 mm) AFF unless otherwise noted	
	Video outlet type as noted in equipment list- mounted 18" (450 mm) AFF unless otherwise noted.	
	Security/ Duress-alarm button mounted 3" (75 mm) above counter top/ counter top back splash.	
	Nurse call dome light-ceiling mounted	
	Nurse call dome light-wall mounted 96" (2300 mm) AFF unless otherwise noted.	
	Nurse call duty station- mounted 54" (1350 mm) AFF unless otherwise noted.	
	Emergency nurse call- mounted 40" (1000 mm) AFF for shower installations mount within 18" (450 mm) of shower head and or 72" (1800 mm) AFF	
	Nurse call staff station- mounted 54" (1350 mm) AFF unless otherwise noted.	
	Security/duress-alarm button wall mounted 40" (1000 mm) unless otherwise noted.	
	Junction box-purpose and location as noted- mounted 18" (450 mm) AFF unless otherwise noted.	
	Door switch- See architectural for mounting location.	
Mechanical	Room humidistat-mounted 5'-0" (1520 mm) AFF	
Plumbing	Medical gas outlet (letter designates service)- mounted 48" AFF unless otherwise noted.	
	Sprinklerhead	