CaldagTM 2020

Interpretive Manual & Checklist

Michael P. Gibbens



CalDAGTM 2020: Interpretive Manual & Checklist – 10th Edition

ISBN: 978-1-60983-938-3

First Printing: November 2019

Computer Graphics: Pete Karaiskos, Nicholas Karaiskos Additional figures reproduced with permission of the International Code Council® (ICC®)

Copyright © 2019 by

Michael P. Gibbens GIBBENS & ASSOCIATES, LLC 4258 Avenida Prado Thousand Oaks, CA 91360 Phone: (805) 870-0900

Published by International Code Council, Inc. 500 New Jersey Avenue, NW, 6th Floor Washington, DC 20001

ALL RIGHTS RESERVED. This publication is a copyrighted work owned by Michael P. Gibbens. All rights reserved, including the right of reproduction in whole or in part in any form. For information on permission to copy material exceeding fair use, please contact Michael P. Gibbens.

The information contained herein represents the author's interpretation of the combined codes and laws regulating both the State of California and the Federal requirements for complying with disabled accessibility guidelines. Though the author has made a good faith effort to provide you with the latest and most accurate information available, the information in this book may contain technical inaccuracies or typographical errors. As the field of disabled accessibility remains to be a dynamic and constantly changing domain, changes are periodically made to the material herein, and these changes may be incorporated into new editions of the product. The information contained in this publication is subject to change without notice and does not represent a commitment on the part of Gibbens and Associates, LLC. Final verification and approval for each project must be secured from regulatory authorities in their respective jurisdictions.

Trademarks: "International Code Council," the "International Code Council" logo, "ICC," the "ICC" logo and other names and trademarks appearing in this book are registered trademarks of the International Code Council, Inc., and/or its licensors (as applicable), and may not be used without permission.

CalDAG 2020

California DISABLED ACCESSIBILITY GUIDEBOOK INTERPRETIVE MANUAL & CHECKLIST

Tenth Edition, Printed in the United States of America

Author: Michael P. Gibbens

GIBBENS & ASSOCIATES, LLC 4258 Avenida Prado Thousand Oaks, California 91360 Phone: (805) 870-0900

Computer Graphics: Pete Karaiskos, Nicholas Karaiskos

Additional figures reproduced with permission of

the International Code Council® (ICC®)

Assistance: Cynthia L. Gibbens - Administration

Josh N. Shea – Information Technology

The information contained herein represents the author's interpretation of the combined codes and laws regulating both the State of California and the Federal requirements for complying with disabled accessibility guidelines. Though the author has made a good faith effort to provide you with the latest and most accurate information available, the information in this book may contain technical inaccuracies or typographical errors. As the field of disabled accessibility remains to be a dynamic and constantly changing domain, changes are periodically made to the material herein and these changes may be incorporated into new editions of the product. The information contained in this publication is subject to change without notice and does not represent a commitment on the part of Gibbens and Associates LLC. Final verification and approval for each project must be secured from regulatory authorities in their respective jurisdictions.

ACKNOWLEDGMENTS

I would like to express my appreciation for the continued support, dedication and hard work from the groups and individuals who have helped to make the CalDAG the successful and trusted resource that it has become.

I want to offer sincere thanks to my publisher, the International Code Council (ICC) and the following people who work with ICC.

Mark Johnson, Executive Vice-President and Director of Business Development.

Hamid Naderi, Senior Vice-President, Business and Product Development.

Cindy Rodriguez, Product Development Manager (newly-retired). A true professional in her work and one of the nicest people I have ever met. Thank you for your guidance and commitment to excellence. It has been a pleasure working with you all these years.

I also want to thank:

Josh Shea, my Information Technology guru. You try to keep me from living in the dark ages, and never cease to amaze me with your computer prowess.

Pete Karaiskos, thank you for all of your assistance in formatting; and to you and your son, Nicholas Karaiskos, for providing the hundreds of computer graphics that were exclusive to the CalDag over the years.

My wife, Cynthia Gibbens, for your continued support on all fronts, and for keeping things together for me and our family, I know it's not easy to live with a writer.

Each of you has had an impact on the success of this product, and I thank you.

Sincerely, Michael P. Gibbens, CASp The Author



ABOUT THE AUTHOR

Michael Patrick Gibbens, CASp, ICC, CASI, is a nationally recognized author, instructor and consultant on the interpretive and technical aspects of disabled accessibility compliance in commercial and residential applications for both public and private sectors. He has developed and presented hundreds of seminars on compliance with State and Federal access laws and guidelines throughout the country and has more than 30 years of experience as a disabled accessibility compliance consultant. In 1991, 6 months before the Americans with Disabilities Act (ADA) became enforceable, he had written the first nationally published manual for ADA compliance to facilitate site assessments and barrier removals, and was

presenting training seminars across the country. In California, he was the first to develop and publish compilations of the more stringent provisions between State and Federal accessibility mandates for the design and construction of Public Accommodations and Commercial Facilities (Federal ADA/State Title 24 standards) and multifamily residential projects (Federal FHAA/State HCD standards) in 1991. Mr. Gibbens' eighteenth book on disabled accessibility compliance, the *CalDAG 2020 (California Disabled Accessibility Guidebook)* began national distribution in November 2019. The *CalDAG* is the only publication in existence that documents the most stringent requirements between the California State accessibility requirements and the ADA. The California Council of the American Institute of Architects (CCAIA) has recognized the *CalDAG* as the foremost subject source on combined state and federal disabled accessibility compliance in the State of California.

Mr. Gibbens' expertise in the interpretation of the legal and technical provisions of disabled accessibility standards is regularly utilized by law firms for the resolution of complaints, allegations of non-compliance and lawsuits. He is experienced with both private sector and Department of Justice actions. When the very first complaint under the newly enacted ADA was registered with the Department of Justice against the Empire State Building, Mr. Gibbens was contracted to consult on-site with the building's architects and management to evaluate the complaint and work toward a resolution. Mr. Gibbens has also been approved by the State Bar of California to provide continuing legal education (MCLE) classes to attorneys on disabled access issues, and has been utilized by the federal Office of Civil Rights (OCR) to train their attorney's and investigators on state/federal accessibility compliance. He has served as a founding member of the California Design Safety and Accessibility Advisory Board (State Access Board), having been appointed by the State Architect, and has served on the Accessibility Code Advisory Committee for the State Building Standards Commission for over 20 years (5 years as past chairman). Mr. Gibbens is a California Certified Access Specialist (CASp), and is certified as an Accessibility/Usability Specialist by the International Code Conference (ICC).

Mr. Gibbens has completed facility compliance audits on virtually every category of occupancy covered under Titles II and III of the ADA and has served clients with facilities in all 50 states. He maintains continual contact with the Department of Justice and Access Board in Washington D.C. to keep abreast of new developments and proposed changes in the laws and standards. He has both designed and constructed improvements for the retrofit of facilities to provide compliance with State and Federal accessibility mandates, and is a consultant to a broad range of private businesses and governmental agencies.

ABOUT THE BOOK

For anyone who has endeavored to stay current with the constantly evolving disabled accessibility requirements contained in Part 2 of Title 24 of the California Code of Regulations (i.e., the California Building Code, or "CBC"), you know how difficult this task is/has been. The first edition of the CalDAG, in 1994, was the size of a phone book and contained not only a crossreferenced listing and checklist of the most stringent requirements and/or interpretations between state and federal laws and regulations, but also included the state and federal reference documents for instant cross-reference if desired. When the ADA Accessibility Standards (ADAAG) first became enforceable on January 26, 1992, there were hundreds of conflicts between California's requirements for disabled accessibility compliance and the federal requirements. Californian's were required to comply with the more stringent requirements of the federal accessibility provisions, however the state and local building officials were not legally allowed to enforce these federal provisions; hence the reason for writing the CalDAG. The original CalDAG was the end product of many thousands of hours of research. The purpose of this research was to determine the Federal Government's position on the accuracy of California's accessibility guidelines as they compared to those of the ADA, and to establish a relevant set of standards that reflected this position. The ultimate product was to have enough background documentation to support the application of these standards if challenged in a court of law. To accomplish this task, a countless number of contacts, both written and verbal, were initiated between appropriate federal and state offices charged with the dissemination, interpretation and enforcement of disabled accessibility guidelines. The majority of these contacts were with the heads of policy and interpretation of the various technical and legal departments. In addition, the expertise of many private attorneys was solicited for their position in various simulated situations to test probable outcomes in litigation. Since the original CalDAG, California has continually made significant modifications to the disabled accessibility provisions over the years, requiring constant awareness and dedication to understanding and keeping current with these changing requirements. The dedication to providing the most current and correct information between state and federal sources in a user-friendly format has continued throughout all of the previous editions of the CalDAG, and will hopefully be readily apparent in this edition.

The 2010 ADA Standards were altogether different than the previous ADAAG. The new standards are in a completely new and different format from the previous standards, and a new section numbering system is being utilized. Consequently, since California has adopted the federal standards as a base document for Chapter 11B of the CBC, the California standards also have a new format and section numbering system. In previous editions of the CBC, Scoping requirements and technical standards could be found together in the same location. The new format has separated scoping requirements and technical requirements in different sections; in many instances the necessary requirements for a particular use, occupancy, or improvement type are scattered throughout the code. The CalDAG has been crafted to significantly reduce this situation by listing the scoping and technical requirements for a particular use and/or improvement type in the same section heading when it was plausible, even if a particular requirement is repeated in multiple locations throughout the book.

It's hard to believe that the CalDAG is celebrating its' twenty-sixth year in existence, and that this is the tenth edition. With California's adoption of the 2010 ADA standards into Chapter 11B of the CBC as a base document, and with the subsequent incorporation of those provisions adopted by California that are in addition to, or more stringent than, the federal accessibility requirements, the CBC disabled accessibility provisions are hopefully more stable now than they have ever been in the past. I sincerely hope that all of the information contained in the CalDAG helps the design and construction professional provide for correct disabled accessibility compliance, and that the numerous enforcement officials for the governing bodies in California can develop an increased level of consistency in the enforcement and interpretation of disabled accessibility requirements throughout the state.

TABLE OF CONTENTS

HOW TO USE THIS BOOK	1
DEFINITIONS AND GENERAL TERMINOLOGY	3
Chapter 1 PRIVATELY FUNDED VS. PUBLICLY FUNDED PROJECTS	21
FEDERALLY FUNDED PUBLICLY FUNDED PRIVATELY FUNDED MULTIPLE FUNDING SOURCES	21 22 23
Chapter 2 APPLICATION AND ADMINISTRATION	26
SCOPE EQUIVALENT FACILITATION DIMENSIONAL CONVENTIONS CONSTRUCTION AND MANUFACTURING TOLERANCES CALCULATION OF PERCENTAGES FIGURES MAINTENANCE OF ACCESSIBLE FEATURES APPLICATION BASED ON BUILDING USE TEMPORARY AND PERMANENT STRUCTURES CONSTRUCTION SUPPORT FACILITIES RELIGIOUS FACILITIES PUBLIC ACCOMMODATIONS LOCATED IN PRIVATE RESIDENCES EMPLOYEE WORK STATIONS	27 27 28 28 29 29 29 30 30 30
PRIVATELY-FUNDED MULTI-STORY BUILDING EXCEPTION UNREASONABLE HARDSHIP ACCESSIBILITY FOR EXISTING BUILDINGS AND FACILITIES ALTERATIONS GENERAL INFORMATION DETERMINING PRIMARY OBLIGATIONS IN ALTERATIONS UNREASONABLE HARDSHIP IN ALTERATIONS HARDSHIP WHEN ALTERATION COSTS DO NOT EXCEED THE ENR AVERAGE CONSTRUCTION COSTS EXCEED THE ENR AVERAGE CONSTRUCTION COST INDEX.	32 34 34 34 40 46
AVERAGE CONSTRUCTION COST INDEXPRIORITY FOR COMPLETING PATH OF TRAVEL REQUIREMENTS WHEN UNREASONABLE HARDSHIP OCCURS LEGAL AND PHYSICAL CONSTRAINTS THAT PROHIBIT FULL ACCESSIBILITY COMPLIANCE	47
EVADING PATH OF TRAVEL REQUIREMENTS BY PERFORMING A SERIES OF SMALL ALTERATIONS	

ELEVATOR REQUIREMENTS IN ALTERATIONS	
FLOW CHART - DETERMINATION OF DISPROPORTIONALITY	
ALTERATION EXAMPLES	
ADDITIONSGENERAL INFORMATION AND EXAMPLES	5/
BARRIER REMOVAL IN EXISTING BUILDINGS AND FACILITIES	
HISTORIC PRESERVATION	_
FEDERAL STANDARDS	
STATE STANDARDS	/1
Chapter 3 SCOPING AND TECHNICAL REQUIREMENTS OF ACCESSIBILITY APPLICABLE TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATIONS, COMMERCIAL FACILITIES AND PUBLIC HOUSING	75
1. GENERAL EXCEPTIONS	77
2. ACCESSIBLE ROUTES	
B. ENTRANCES	
4. ACCESSIBLE MEANS OF EGRESS	96
5. WALKING SURFACES	
3. PROTRUDING OBJECTS	
7. FLOOR OR GROUND SURFACES	
B. CHANGES IN LEVEL	
9. TURNING SPACE	
10. CLEAR FLOOR OR GROUND SPACE	
11. KNEE AND TOE CLEARANCE	
12. REACH RANGES	
13. OPERABLE PARTS	
14. DOORS, DOORWAYS AND GATES	
14A. MANEUVERING CLEARANCES AT DOORS AND GATES	136
15. RAMPS	
16. CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS	
17. ELEVATORS	151 160
17A. ELEVATOR LANDING REQUIREMENTS	161
17B. ELEVATOR HALL SIGNALS	
17C. ELEVATOR HOISTWAY SIGNS	
17D. ELEVATOR DOOR REQUIREMENTS	
17E. ELEVATOR CAR REQUIREMENTS	
17F. ELEVATOR CAR CONTROLS	
17G. ELEVATOR DESIGNATIONS AND INDICATORS OF CAR CONTROLS	
17H. ELEVATOR CAR POSITION INDICATORS	
17-A. DESTINATION-ORIENTED ELEVATORS	
17-AA. DESTINATION-ORIENTED ELEVATOR LANDING REQUIREMENTS.	
17-AB. DESTINATION-ORIENTED ELEVATOR DOOR REQUIREMENTS	184
17-AC. DESTINATION-ORIENTED ELEVATOR CAR REQUIREMENTS	
17-AD. DESTINATION-ORIENTED ELEVATOR CAR CONTROLS	
17-AE. DESTINATION-ORIENTED ELEVATOR DESIGNATIONS	
AND INDICATORS OF CAR CONTROL BUTTONS	188
17-AF. DESTINATION-ORIENTED ELEVATOR CAR POSITION	
INDICATORS	189
17-AG. DESTINATION-ORIENTED ELEVATOR FLOOR	
DESTINATION INDICATORS	189
18. LIMITED-USE/LIMITED-APPLICATION ELEVATORS	

	PRIVATE RESIDENCE ELEVATORS	
20.	PLATFORM LIFTS	196
21.	PARKING SPACES	200
22.	PASSENGER DROP-OFF AND LOADING ZONES AND BUS STOPS	215
23.	STAIRWAYS	217
24.	HANDRAILS	220
	DRINKING FOUNTAINS	
26.	TOILET FACILITIES AND BATHING FACILITIES	229
	26A. WATER CLOSETS AND WHEELCHAIR-ACCESSIBLE	
	TOILET COMPARTMENTS	235
	26B. AMBULATORY ACCESSIBLE TOILET COMPARTMENTS	247
	26C. WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE	
	26D. SIGNS FOR TOILET ROOMS AND BATHING ROOMS	
	26E. URINALS	
	26F. LAVATORIES AND SINKS	
	26G. BATHTUBS	
	26H. SHOWER COMPARTMENTS	
	STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS	
	ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS	
	TRANSFER TYPE SHOWER COMPARTMENTS	
07	26I. ADULT CHANGING FACILITIES	
	WASHING MACHINES AND CLOTHES DRYERS	
28.	SAUNAS AND STEAM ROOMS	285
	FIRE ALARM SYSTEMS AND CARBON MONOXIDE ALARM SYSTEMS	
30.	SIGNS	
	30A. RAISED CHARACTERS	
	30B. BRAILLE	
	30C. INSTALLATION HEIGHT AND LOCATION	
	30D. VISUAL CHARACTERS	
	30E. PICTOGRAMS	
	30F. SYMBOLS OF ACCESSIBILITY	
	30G. TOILET AND BATHING FACILITY SIGNS	
	30H. PEDESTRIAN TRAFFIC CONTROL BUTTONS	
	30I. TACTILE EXIT SIGNS	
	30J. DELAYED EGRESS LOCKS	
	30K. STAIRWAY IDENTIFICATION SIGNS	
		311
	TELEPHONES	
	DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE	
	ASSISTIVE-LISTENING SYSTEMS	325
34.	AUTOMATIC TELLER MACHINES, FARE MACHINES,	
	AND POINT-OF-SALE DEVICES	330
	TWO-WAY COMMUNICATIONS SYSTEMS	
36.	ASSEMBLY AREAS	340
	DRESSING, FITTING AND LOCKER ROOMS	
	MEDICAL CARE AND LONG-TERM CARE FACILITIES	356
39.	TRANSIENT LODGING GUEST ROOMS, HOUSING AT A PLACE OF	
	EDUCATION AND SOCIAL SERVICE CENTER ESTABLISHMENTS	
	KITCHENS, KITCHENETTES AND WET BARS	
	JUDICIAL FACILITIES	
	DETENTION FACILITIES AND CORRECTIONAL FACILITIES	
	RESIDENTIAL FACILITIES	
44.	TRANSPORTATION FACILITIES	394
	STORAGE	
46.	DINING SURFACES AND WORK SURFACES	403
47.	BENCHES	406

	SALES AND SERVICE	
	AMUSEMENT RIDES	
	RECREATIONAL BOATING FACILITIES	
	EXERCISE MACHINES AND EQUIPMENT	
	FISHING PIERS AND PLATFORMS	
	GOLF FACILITIES	
	MINIATURE GOLF FACILITIES	
	PLAY AREAS	
	SWIMMING POOLS, WADING POOLS AND SPAS	
	SHOOTING FACILITIES WITH FIRING POSITIONS	
	OUTDOOR DEVELOPED AREAS	461
59.	DEPOSITORIES, VENDING MACHINES, MAIL BOXES, FUEL DISPENSERS	
	AND ELECTRIC VEHICLE CHARGING STATIONS	
	WINDOWS	
	RELIGIOUS FACILITIES	
	PUBLIC ACCOMMODATIONS LOCATED IN PRIVATE RESIDENCES	
63.	COMMON-USE AND EMPLOYEE WORK AREAS	472
	DENDIAGO	
Ar	PPENDICES	
ΔΡ	PENDIX A - SELECTED CALIFORNIA STATUTES PERTAINING TO	
<i>7</i> \ 1	ACCESSIBILITY	473
	ACCECOIDIEIT	773
۸D	PENDIX B - RESOURCES FOR FURTHER INFORMATION; ORGANIZATIONS	
<u>Ar</u>	AND AGENCIES THAT PROVIDE MATERIALS AND SERVICES	
	REGARDING COMPLIANCE FOR DISABLED ACCESSIBILITY	
	REGARDING COMPLIANCE FOR DISABLED ACCESSIBILITY	ეეკ
IN	<u>IDEX</u>	E E 7
117		3 3/