Contents

Acknowledgments ix

Introduction xi
History xi
Summary xii

Chapter 1
GENERAL GUIDELINES 1
by Marcela Abadi Rhoads, AIA RAS
General Guidelines 1
Building Blocks 2
Accessible Routes 9
General Site 10
  Changes in Level 16
Accessible Entrances 16
  Interior Accessible Route 17
Plumbing Fixtures 18
Communication Features 23
Summary 25
Chapter 2
RETAIL AND MIXED-USE FACILITIES  27
by Marcela Abadi Rhoads, AIA RAS
Introduction  27
Shopping Malls  28
  Site Arrival Points  28
  Minimum Number of Parking Spaces Closest to the Entrances  29
  Accessible Route to Entrances  32
  Accessible Entrances  38
  Interior Accessible Route to Spaces  38
  Retail Spaces  41
  Checkout and Sales Counters  43
  Dressing and Fitting Rooms  44
  Employee Areas  46
  Common-Use Spaces  52
  Food Court  56
  Play Areas  60
Strip Shopping Center  61
  Site Arrival Point  63
  Parking  66
  Accessible Route  66
  Tenant Entrances  66
Lifestyle Center  72
  Parking  72
  Accessible Route  74
  Residential Facilities/Offices on Upper Floors  75
Summary  81

Chapter 3
PRIMARY EDUCATION  85
by Wally Tirado, ICC RAS
Introduction  85
Administrative Areas  86
  Employee Work Areas  87
  Service Areas  88
  Service Yards and Loading Docks  89
General Application for Children Areas  89
  Reach Ranges and Operating Mechanisms  92
  Dining and Work Surfaces  92
Toilet Rooms and Elements  97
  Drinking Fountains  98
Toilet Compartments 99
Water Closets and Accessories 99
Mirrors 102
Lavatories and Sinks 102
Dressing and Fitting Rooms 104
Signage 104
Ramps and Stairs 106
Assembly Areas 108
Outdoor Play Areas 111
Transportation Facilities 112
  Passenger Loading Zones 112
  Bus Loading Zones 112
Summary 113

Chapter 4
SECONDARY AND POSTSECONDARY EDUCATION 117
by Wally Tirado, ICC RAS
Introduction 117
Accessible Sites and Parking 118
  Bus Loading Zones 118
  Location and Dispersion of Parking 120
  Leased/Assigned Parking 121
  Playing Fields and Exterior Athletic Facilities 122
General Accessible Areas 127
  Security Barriers 128
  Temporary Structures and Facilities 129
Assembly Areas 129
  Classrooms 130
  Other Box Seating and Outdoor Seating 132
  Performance Areas 135
  Assistive Listening Systems (ALS) 141
  Ticket Booths and Concession Stands 142
Libraries 142
Physical Education Facilities 143
  Exercise Machines and Equipment 143
  Dressing, Fitting, and Locker Rooms 146
Swimming Pools 148
Other Spectator Sports Areas 150
Dining Facilities 151
Administrative Areas 153
Housing at a Place of Education 158
  Kitchens 159
  Multi-Bedroom 159
Chapter 5
HOSPITALITY  163
by Jeromy Murphy, AIA RAS
Introduction  163
New Construction  164
Existing Facilities  164
Public and Guest Areas  164
Guest Rooms with Mobility Features or Communications Features  173
Examples  177
Summary  179

Chapter 6
HEALTHCARE AND SENIOR LIVING COMMUNITIES  183
by Greg Hunteman, AIA RAS
Introduction  183
Different Types of Healthcare  183
Alterations to Existing Healthcare and Long-Term Care Facilities  184
General Guidelines  186
Accessible Routes  186
Individual Spaces  190
Patient and Resident Sleeping Rooms  191
Summary  198

Chapter 7
AMUSEMENT PARKS AND PLAY AREAS  201
by Marcela Abadi Rhoads, AIA RAS
Site Arrival  202
Play Areas  204
Ground Play Components  206
Elevated Play Components  209
Accessible Route  210
Entry Points and Seats  217
Play for Visually and Hearing Impaired  217
Amusement Rides  217
Fishing Piers  229
Summary  231
Chapter 8
HISTORIC PRESERVATION AND REMODELS  235
by Marcela Abadi Rhoads, AIA RAS
Alterations  236
Entrances  242
Accessible Route  242
Path of Travel Elements  243
Tenant Finish-Outs  244
Alterations of Medical Care Facilities’ Patient Rooms  245
Alterations of Transient Lodging Sleeping Rooms  246
Alterations of Holding Cells  247
Alterations of Residential Dwelling Units  248
Alterations of Restaurants  249
Alterations of Dressing Rooms and Lockers Rooms  249
Disproportionality: The 20% Rule  249
Series of Smaller Alterations  250
Safe Harbor  251
Historic Facilities  252
Summary  254

Chapter 9
RESIDENTIAL PROJECTS  259
by Jeromy Murphy, AIA RAS
Introduction  259
   Residential versus Transient Lodging  259
   Applicability  260
   Public and Common Use Spaces  263
      Residential Dwelling Units  265
Summary  270

Chapter 10
UNIVERSAL DESIGN BEYOND THE ADA  273
by Marcela Abadi Rhoads, AIA RAS
PRINCIPLE ONE: Equitable Use  274
   Principle One Design Guidelines  274
PRINCIPLE TWO: Flexibility in Use  277
   Principle Two Design Guidelines  278
PRINCIPLE THREE: Simple and Intuitive Use  282
   Principle Three Design Guidelines  282