

DRAFT FINAL ACCESSIBILITY GUIDELINES FOR OUTDOOR DEVELOPED AREAS

Date: October 19, 2009

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Introduction

Background

On June 20, 2007, the Access Board issued a Notice of Proposed Rulemaking (NPRM) to establish accessibility guidelines pursuant to the Architectural Barriers Act (ABA) for camping facilities, picnic facilities, viewing areas, outdoor recreation access routes, trails, and beach access routes that are constructed or altered by or on behalf of the Federal government. The NPRM was based on a Regulatory Negotiation Committee Report.

Public hearings on the NPRM were held in Denver, CO on July 24, 2007; in Washington, DC on September 6, 2007; and in Indianapolis, IN on September 26, 2007. An information meeting on beach access routes was also held in Washington, DC on July 23, 2008. Over 600 comments were received on the NPRM.

The Access Board prepared a draft of the final accessibility guidelines based on the NPRM and the comments on the NPRM. The Access Board reviewed the draft final accessibility guidelines with the accessibility program managers for the Federal land management agencies. The Access Board is making the draft final accessibility guidelines available for public review to provide an additional opportunity for other interested persons to participate in the rulemaking and comment on the document. After reviewing comments received on the draft final accessibility guidelines, the Access Board will proceed to issue the accessibility guidelines as a final rule.

Whom the Guidelines Apply To

The draft final accessibility guidelines apply to Federal land management agencies, including the U.S. Forest Service, National Park Service, Fish and Wildlife Service, Bureau of Land Management, Bureau of Reclamation, and Army Corps of Engineers. The draft final accessibility guidelines also apply to the following non-federal entities that construct or alter facilities on Federal lands on behalf of the Federal government:

- Private entities that construct or alter camping facilities, picnic facilities, or beach facilities on Federal lands pursuant to a concession contract or other arrangement with a Federal agency under which the Federal agency reviews or approves the design of the facility and has a property interest in the facility;
- State or local government entities that construct or alter camping facilities, picnic facilities, or beach facilities on Federal lands pursuant to an agreement with a Federal agency under which the Federal agency reviews or approves the design of the facility and has a property interest in the facility; and
- Non-profit organizations and State or local government entities that enter into partnerships with a Federal agency to construct or alter trails or viewing areas on Federal lands.

How to Submit Comments

Comments should be submitted by December 18, 2009 using any of the following methods:

- Federal eRulemaking Portal: <http://www.regulations.gov>. Follow the instructions on that website for submitting comments. The Regulations.gov ID for this docket is ATBCB-2009-0006.
- E-mail: outdoor@access-board.gov.
- Fax: 202-272-0081.
- Mail or Hand Delivery/Courier: Office of Technical and Informational Services, Architectural and Transportation Barriers Compliance Board, 1331 F Street NW, suite 1000, Washington, DC 20004-1111.

All comments received will be posted without change to <http://www.regulations.gov>, including any personal information provided.

Contact for Further Information

Bill Botten, Office of Technical and Information Services, Architectural and Transportation Barriers Compliance Board, 1331 F Street, NW, suite 1000, Washington, DC 20004-1111. Telephone number: 202-272-0014 (voice); 202-272-0082 (TTY). Electronic mail address: botten@access-board.gov.

General Issues

Format and Organization of Guidelines

The NPRM presented the accessibility guidelines for outdoor developed areas as a separate, self-contained document. The draft final accessibility guidelines for outdoor developed areas are formatted for incorporation into the Americans with Disabilities Act and Architectural Barriers Act (ADA-ABA) Accessibility Guidelines. The Access Board issued the ADA-ABA Accessibility Guidelines in 2004 to revise and update the accessibility guidelines for buildings and facilities covered by Americans with Disabilities Act and the Architectural Barriers Act. The General Services Administration and the Department of Defense have adopted the relevant chapters of the ADA-ABA Accessibility Guidelines as enforceable standards for the Architectural Barriers Act.

Outdoor developed areas can contain elements and facilities such as drinking fountains, parking areas, restrooms, play areas, boating facilities, and fishing platforms that are addressed in the ADA-ABA Accessibility Guidelines. Incorporating the accessibility guidelines for outdoor developed areas into the ADA-ABA Accessibility Guidelines organizes all the provisions necessary to make all the elements and facilities in these areas accessible in one document. The Access Board is developing a separate technical assistance document, in cooperation with the Federal land management agencies, to accompany the final accessibility guidelines. The document will explain in an easy to use format the provisions in the ADA-ABA Accessibility Guidelines that apply to outdoor developed areas.

The following new sections are added to the ADA-ABA Accessibility Guidelines:

ABA Chapter 2: Scoping Requirements

- F244 Camping Facilities
- F245 Picnic Facilities
- F246 Viewing Areas
- F247 Trails
- F248 Beach Access Routes

Chapter 10: Recreation Facilities

- 1011 Outdoor Constructed Features
- 1012 Parking Spaces within Accessible Camping Units and Picnic Units and Pull-Up Spaces at Recreational Vehicle Dump Stations

- 1013 Tent Pads and Tent Platforms
- 1014 Camp Shelters
- 1015 Viewing Areas
- 1016 Outdoor Recreation Access Routes
- 1017 Trails
- 1018 Beach Access Routes
- 1019 Conditions for Exceptions

Each section contains numbered provisions that address a single subject indicated by the heading or title of the provision. Non-mandatory advisory information is inserted in boxes after some provisions and is clearly identified. Plain language is used to make the provisions clearer and easier to understand. The Board seeks comment on whether:

- The provisions are clearly stated;
- Any language is not clear; or
- Clarity can be improved by adding figures or advisory information.

The draft final accessibility guidelines also amend several existing provisions of the ADA-ABA Accessibility Guidelines, including:

- New Exception 4 is added to the scoping provision for alterations in F202.3. Exception 4 is based on existing Exception 1 in F202.3. Exception 4 does not require an outdoor recreation access route to be provided where an element, space, or outdoor constructed feature is altered but the circulation path to the altered element, space, or outdoor constructed feature is not altered.
- New Exception 2 is added to the scoping provision for alterations to primary function areas in F202.4. Exception 2 does not require camping facilities, picnic facilities, viewing areas, trailheads, trails, and beach access routes to comply with F202.4 because the NPRM did not contain any scoping provision for alterations to primary function areas.
- New Exceptions 1, 2, and 3 are added to the scoping provision for accessible routes in F206.1 to clarify that accessible routes are not required where outdoor recreation access routes or beach access routes are provided, and where certain facilities are provided on trails.

Conditional Exceptions

The NPRM permitted exceptions to specific technical provisions where certain conditions exist. The conditions take into account limitations and other constraints posed by the existing outdoor environment. The conditions are contained in 1019 in the draft final accessibility guidelines.

The draft final accessibility guidelines separate the NPRM condition based on terrain or prevailing construction practices into two conditions for clarity as shown below.

NPRM Condition	Draft Final Guidelines Conditions
Compliance would not be feasible due to terrain or the prevailing construction practices.	Compliance is not feasible due to terrain.
	Compliance cannot be accomplished with the prevailing construction practices.

The draft final accessibility guidelines use the phrase “fundamentally alter” in place of “substantially alter” in the condition shown below. The phrase “fundamentally alter” is used in regulations implementing the Americans with Disabilities Act and Section 504 of the Rehabilitation Act to describe when compliance with certain requirements can be limited. The phrase “fundamentally alter” is used in the draft final accessibility guidelines to be consistent with those regulations. Federal agencies have experience applying the phrase “fundamentally alter” under Section 504 of the Rehabilitation Act and should apply the phrase in the same manner to the condition.

NPRM Condition	Draft Final Guidelines Condition
Compliance would substantially alter the nature of the setting or the purpose of the facility, or portion of the facility.	Compliance would fundamentally alter the function or purpose of the facility or the setting.

The draft final accessibility guidelines combine the NPRM conditions based on Federal, State, or local laws and on preservation of archaeological, cultural, historical, or other significant natural features into one condition as shown below. The draft final accessibility guidelines reference the specific Federal laws that the NPRM included in advisory information on the conditions, and adds the National Environmental Policy Act. These laws can limit construction in the outdoor environment. The draft final accessibility guidelines include a general reference to other Federal, State, or local laws the purpose of which is to preserve threatened or endangered species; the environment; or archaeological, cultural, historical, or other significant natural features. Archaeological, cultural, historical, or other significant natural features that are eligible for protection under Federal, State, or local laws are covered by the condition.

NPRM Conditions	Draft Final Guidelines Condition
Compliance would require construction methods or materials that are prohibited by Federal, State, or local regulations or statutes.	Compliance is precluded by the: <ul style="list-style-type: none"> • Endangered Species Act (16 U.S.C. §§ 1531 et seq.); • National Environmental Policy Act (42 U.S.C. §§ 4321 et seq.); • National Historic Preservation Act (16 U.S.C. §§ 470 et seq.); • Wilderness Act (16 U.S.C. §§ 1131 et seq.); or • Other Federal, State, or local law the purpose of which is to preserve threatened or endangered species; the environment; or archaeological, cultural, historical, or other significant natural features.
Compliance would cause substantial harm to cultural, historic, religious, or significant natural features or characteristics.	

The draft final accessibility guidelines contain additional exceptions to the technical provisions where the conditions exist. The conditional exceptions permitted in the draft final accessibility guidelines are shown in the table below.

Conditional Exceptions in Draft Final Guidelines			
Space or Facility	Exception	Type of Construction to Which Exception Applies	Technical Provisions to Which Exception Applies
Outdoor Constructed Features	1011.2 EXCEPTION 2	Alterations	Clear ground space at outdoor constructed features permitted to comply with provisions for size and location, firm and stable surface, and slope to the maximum extent feasible
Tent Pads and Tent Platforms	1013.2 EXCEPTION	New Construction Alterations	Clear ground space at tent pads and tent platforms permitted to comply with technical provisions to the maximum extent feasible
Camp Shelters	1014.1 EXCEPTION	New Construction Alterations	Camp shelters permitted to comply with technical provisions to the maximum extent feasible
Viewing Areas	1015.1 EXCEPTION	Alterations	Viewing areas permitted to comply with technical provisions to the maximum extent feasible
Outdoor Recreation Access Routes	1016.1 EXCEPTION 1	Alterations	Portions of an outdoor recreation access route at existing camping facilities, picnic facilities, and trailheads permitted to comply with technical provisions to the maximum extent feasible
	1016.1 EXCEPTION 2	New Construction Alterations	Portions of an outdoor recreation access route at viewing areas permitted to comply with technical provisions to the maximum extent feasible
Trails	1017.1 EXCEPTION 1	New Construction Alterations	Portions of a trail permitted to comply with technical provisions to the maximum extent feasible
Beach Access Routes	1018.1 EXCEPTION 1	New Construction Alterations	Portions of a beach access route permitted to comply with technical provisions to the maximum extent feasible

Where a conditional exception applies to the technical provisions for a facility, the exception is to be applied on a provision-by-provision basis. For example, if a portion of trail can fully comply with the technical provision for clear tread width but cannot fully comply with the technical provision for running slope, the conditional exception permits the portion of the trail to comply with the technical provision for running slope to the maximum extent feasible. The phrase “to the maximum extent feasible” means that the portion of the trail can depart from the technical provision for running slope to the extent necessary to address the condition.

Exceptions for Trails and Beach Access Routes

The NPRM contained an exception based on the Regulatory Negotiation Committee Report that addressed situations where it would be impractical to require an entire trail to comply with the technical provisions. These situations were described as follows:

- The combination of running slope and cross slope exceeds 40 percent for over 20 feet.
- A trail obstacle 30 inches or more in height extends across the full tread width of the trail.
- The surface is neither firm nor stable for a distance of 45 feet or more.
- The clear tread width is less than 12 inches for a distance of 20 feet or more.
- The conditional exceptions result in over 15 percent of the length of the trail departing from the technical provisions.

Some comments noted that the Regulatory Negotiation Committee Report contained two separate exceptions based on the situations described above. The comments preferred the two separate exceptions as contained in the Regulatory Negotiation Committee Report. The Access Board further considered the two separate exceptions contained in the Regulatory Negotiation Committee Report and found they have shortcomings. There can be situations other than those described in the first exception in the Regulatory Negotiation Committee Report where it would be impractical to require an entire trail to comply with the technical provisions. The second exception in the Regulatory Negotiation Committee Report does not distinguish between minor and significant departures from the technical provisions. Therefore, the Access Board revised the exceptions for trails in the draft final accessibility guidelines. The Access Board also added exceptions similar to the trails exceptions for beach access routes.

The exceptions for trails are contained in 1017.1, and the exceptions for beach access routes are contained in 1018.1 in the draft final accessibility guidelines. The exceptions are to be applied on a case-by-case basis to determine situations where it is impractical to require an entire trail to comply with the technical provisions or to provide a beach access route. The exceptions are to be applied as follows:

- Apply the conditional exceptions and determine what portions of a trail or beach access route cannot fully comply with the technical provisions. Those portions of the trail or beach access route are required to comply with the technical provisions to the maximum extent feasible.
- Evaluate the entire trail or beach access route and determine whether it is impracticable for the entire trail to comply with the technical provisions or to provide a beach access route. This determination takes into account what portions of the trail or beach access route can and cannot fully comply with the technical provisions, and the extent of compliance where full compliance cannot be achieved.
- Document the basis for the determinations, and maintain the documentation with the records for the construction or alteration project. The draft final accessibility guidelines do not prescribe any particular format for the documentation.

Notification When Entire Trail or Beach Access Route Exempted

The Access Board plans to monitor situations where the exceptions for trails and beach access routes result in exempting an entire trail or beach access route. A provision is added at F201.4.1 that requires Federal agencies to notify the Access Board when an entire trail or beach access route is exempted. The provision does not require approval or any other action on the part of the Access Board or the Federal agency. The Access Board will develop a sample form with assistance from the accessibility program managers for the Federal land management agencies that can be used to notify the Access Board when an entire trail or beach access route is exempted. The Access Board will use the information provided by the Federal agencies to develop additional guidance on exempting entire trails and beach access routes. Federal agencies are encouraged to seek technical assistance from the Access Board when considering exempting an entire trail or beach access route.

Outdoor Constructed Features

The NPRM contained individual scoping and technical provisions for picnic tables, fire rings, grills, fireplaces, wood stoves, trash and recycling receptacles, water hydrants, utility and sewage hookups, outdoor rinsing showers, benches, telescopes, and periscopes. The draft final accessibility guidelines use a new term “outdoor constructed features” to describe these elements, and the term is defined in F106.5 to include only these elements.

The NPRM contained various scoping provisions for outdoor constructed features based on the Regulatory Negotiation Committee Report as follows:

- At least 50 percent of picnic tables, fire rings, grills, and benches were required to be accessible. At least 40 percent of these outdoor constructed features were required to be connected to an outdoor recreation access route. Thus, the NPRM required at least 20 percent of these outdoor constructed features to be accessible and connected to an outdoor recreation access route (i.e., 40 percent of 50 percent = 20 percent). The other 30 percent of these accessible outdoor constructed features were not required to be connected to an outdoor recreation access route.
- Each fireplace, wood stove, and trash and recycling receptacle was required to be accessible and connected to an outdoor recreation access route.
- At least 20 percent of telescopes and periscopes were required to be accessible and connected to an outdoor recreation access route.
- At least one outdoor rinsing shower was required to be accessible and connected to an outdoor recreation access route.

The draft final accessibility guidelines revise and simplify the scoping provisions for outdoor constructed features as follows:

- Outdoor constructed features provided within accessible camping units and accessible picnic units are required to be accessible and connected to an outdoor recreation access route.
- An exception addresses the situation where more than one outdoor constructed feature of the same type is provided within an accessible camping unit or an accessible picnic unit. The exception requires no more than 20 percent but at least two of the same type of outdoor constructed feature provided within an accessible camping unit or an accessible picnic unit to be accessible and connected to an outdoor recreation access route.
- At least 20 percent of the outdoor constructed features provided in common use and public use areas serving accessible camping units and accessible picnic units are required to be accessible and connected to an outdoor recreation access route.
- At least 20 percent of outdoor constructed features provided at viewing areas and trailheads are required to be accessible and connected to an outdoor recreation access route.
- At least 20 percent of outdoor constructed features provided at each location on trails are required to be accessible. Outdoor constructed features provided on trails are not required to be connected to an outdoor recreation access route.

Unlike the NPRM, the draft final accessibility guidelines do not require an additional number of outdoor constructed features to be accessible without requiring them to be connected to an outdoor recreation access route because the ADA-ABA Accessibility Guidelines generally require accessible elements to be connected to a route that is accessible.

The scoping provisions for outdoor constructed features are minimum requirements. Federal agencies can exceed these minimum requirements and are encouraged to do so. The U.S. Forest Service and Army Corps of Engineers exceed these minimum requirements. Each outdoor constructed feature provided by the U.S. Forest Service and Army Corps of Engineers is accessible.

The technical provisions for outdoor constructed features are contained in 1011. The technical provisions for clear ground spaces in 1011.2 and operable parts in 1011.3 apply to all types of outdoor constructed features. A conditional exception is added to the clear ground space provision for alterations to existing facilities and is discussed under Conditional Exceptions. Exceptions are added to the technical provisions for operable parts in 1011.3 for certain outdoor constructed features based on the design or operation of the features. There are specific technical provisions for wheelchair spaces at picnic tables in 1011.4; for fire building and cooking surfaces in 1011.5; for water spouts in 1011.6; for shower heads on outdoor rinsing showers in 1011.7; and for eyepieces on telescopes and periscopes in 1011.8.

The clear ground space sizes in Table 1011.2.1 are based on the dimensions in 307.5 of the ADA-ABA Accessibility Guidelines for spaces that are confined on all or part of three sides. In outdoor environments, the clear ground spaces at outdoor constructed features can be confined

on all or part of three sides by adjoining surfaces that are not firm and stable or that have changes in level. The dimensions in 307.5 of the ADA-ABA Accessibility Guidelines provide additional clearance for these situations: 36 inches by 48 inches minimum for a forward approach, and 36 inches by 60 inches minimum for a parallel approach. The location of the outdoor constructed feature within the clear ground space is also specified in Table 1011.2.1. The size of the clear ground space at water hydrants is enlarged to allow individuals with disabilities to approach each side of the water hydrant.

The NPRM included scoping and technical provisions for utility sinks that are provided to clean large pots or equipment. The ADA-ABA Accessibility Guidelines include scoping and technical provisions for sinks, but exempt service sinks because they cannot comply with the technical provisions due to their configuration. Utility sinks are configured similar to service sinks. Therefore, an exception has been added to F212.3 of the ADA-ABA Accessibility Guidelines that exempts sinks in camping facilities and picnic facilities where a cooktop or conventional range is not provided. The exception is intended to apply to utility sinks. The ADA-ABA Accessibility Guidelines contain a separate scoping provision for lavatories (i.e., sinks in toilet rooms and bathing rooms) in F213.3.4 that is not affected by the exception.

Grab bars are not required on outdoor rinsing showers because they are not designed for transferring from a wheelchair or mobility device. The technical assistance document that accompanies the final accessibility guidelines will include recommended designs for grab bars on outdoor rinsing showers and for seat height, backs, and armrests on benches. The draft final accessibility guidelines do not include provisions for mobility storage devices because they typically are not provided at the facilities addressed in the guidelines.

Concrete, Asphalt, or Board Surfaces

A variety of ground surfaces can be used to provide accessible spaces and facilities in outdoor environments. The draft final accessibility guidelines distinguish between the types of ground surfaces used for certain maximum slopes and obstacle heights as shown in the table below. The 1:48 maximum slope and ½ inch obstacle height specified for concrete, asphalt, or board surfaces are based on the technical provisions for changes in level in 303.3 and 305.2 of the ADA-ABA Accessibility Guidelines. Beveling is not required. Concrete, asphalt, and board surfaces can achieve this maximum slope and obstacle height, unlike some other surfaces used in outdoor environments. The maximum slopes and obstacle heights specified for surfaces other than concrete, asphalt, or boards are the same as in the NPRM.

Technical Provisions for Certain Maximum Slopes and Obstacle Heights			
Space or Facility	Provision	Concrete, Asphalt, or Board Surfaces	All Other Surfaces
Outdoor Constructed Features			
Slope (any direction) of clear ground spaces	1011.2.3	1:48	1:48 EXCEPTION: 1:33 where necessary for drainage
Parking Spaces within Accessible Camping and Picnic Units and Pull-Up Spaces at Recreational Vehicle Dump Stations			

Technical Provisions for Certain Maximum Slopes and Obstacle Heights			
Space or Facility	Provision	Concrete, Asphalt, or Board Surfaces	All Other Surfaces
Slope (any direction) of parking and pull-up spaces	1012.5	1:48	1:48 EXCEPTION: 1:33 where necessary for drainage
Tent Pads and Tent Platforms			
Slope (any direction) of tent pads, tent platforms, and clear ground spaces	1013.3	1:48	1:48 EXCEPTION: 1:33 where necessary for drainage
Camp Shelters			
Slope (any direction) of clear ground spaces and floor spaces	1014.4	1:48	1:48 EXCEPTION: 1:33 where necessary for drainage
Viewing Areas			
Slope (any direction) of clear ground spaces and turning spaces	1015.6	1:48	1:48 EXCEPTION: 1:33 where necessary for drainage
Outdoor Recreation Access Routes			
Obstacles	1016.5	½ inch	1 inch
Cross slope	1016.7.2	1:48	1:33
Resting interval slope (any direction)	1016.8.3	1:48	1:33
Trails			
Tread Obstacles	1017.5	½ inch	2 inches
Cross slope	1017.7.2	1:48	1:20
Resting interval slope (any direction)	1017.8.3	1:48	1:20
Beach Access Routes			
Obstacles	1018.5	½ inch	1 inch
Cross slope	1018.7.2	1:48	1:33
Resting interval slope (any direction)	1018.8.2	1:48	1:33

Summary of Provisions

Camping Facilities

The definitions in F106.5 include two new terms: camping facility and camping unit. A camping facility is a site, or portion of a site, developed for outdoor recreational purposes that contains camping units. National forests and parks usually contain a number of separate camping facilities. A camping unit is an outdoor space in a camping facility used for camping that contains outdoor constructed features, parking spaces for recreational vehicles or other vehicles, tent pads or tent platforms, or camp shelters. A camping unit can contain some or all of the components listed in the definition.

Camping facilities on trails are addressed in the scoping provisions for trails in F247.5.1 and are discussed under Trails. All other camping facilities are addressed in the scoping provisions in F244.

The scoping provision in Table F244.2.1 specifies the minimum number of accessible camping units required in newly constructed camping facilities. For existing camping facilities, the scoping provision applies only to the camping units that are altered or added until the number of accessible camping units complies with the minimum number required for new construction.

An exception addresses the situation where individual components within camping units are altered to ensure that accessible components are located within accessible camping units. Under the exception, where a Federal agency is implementing a transition plan pursuant to Section 504 of the Rehabilitation Act and has designated specific camping units in an existing camping facility to become accessible, the agency is not required to comply with the scoping provisions when altering individual components within camping units that are not designated to become accessible under the transition plan.

The scoping provision in F244.2.3 requires accessible camping units to be dispersed within the camping facility to provide choices of camping units comparable to, and integrated with, those available to others.

The scoping provisions in F244.2.4 require:

- Outdoor constructed features within accessible camping units to comply with the technical provisions in 1011. These technical provisions are discussed under Outdoor Constructed Features.
- Parking spaces within accessible camping units for recreational vehicles and vehicles other than recreational vehicles to comply with the technical provisions in 1012. These technical provisions address minimum width, firm and stable surface, and maximum slope.
- Tent pads and tent platforms within accessible camping units to comply with the technical provisions in 1013. These technical provisions address clear ground space on usable sides of the tent pads and tent platforms, maximum slope, and maximum tent platform height. A conditional exception is added to the technical provisions for clear ground spaces and is discussed under Conditional Exceptions.
- Camp shelters within accessible camping units to comply with the technical provisions in 1014. These technical provisions address clear ground space, floor space, turning space, firm and stable surface, maximum slope, and maximum floor height. A conditional exception is added to these technical provisions and is discussed under Conditional Exceptions.

Exceptions address the situation where more than one component of the same type is provided within an accessible camping unit. The exceptions require no more than 20 percent but at least two of the same type of component to be accessible.

The scoping provision in F244.3 requires at least 20 percent of the outdoor constructed features in common use and public use areas that serve accessible camping units to be accessible. The scoping provision in F244.4 addresses pull-up spaces for recreational vehicles at dump stations.

The scoping provisions in F244.5 address outdoor recreation routes in camping facilities and are shown in the table below.

Scoping Provisions for Outdoor Recreation Access Routes in Camping Facilities	
Location	Outdoor Recreation Access Route Required to Connect
Accessible camping units	Accessible outdoor constructed features, elements, spaces, and facilities within each accessible camping unit
Common use and public use areas	Each accessible camping unit to accessible outdoor constructed features, elements, spaces, and facilities in common use and public use areas that serve the accessible camping unit
Recreational vehicle dump stations	Outdoor recreation access route not required to connect accessible camping units to recreational vehicle dump stations, provided outdoor recreation access route connects accessible vehicle pull-up space at the dump station to accessible outdoor constructed features, elements, spaces, and facilities at the dump station
Adjacent recreation facilities connected to camping facility by a circulation path	Accessible camping units to accessible route serving the adjacent recreation facility (e.g., accessible route serving entry point to a fishing platform)

The NPRM included a scoping provision for accessible recreational vehicle parking spaces in general use parking areas at camping facilities. This scoping provision has not been included in the draft final accessibility guidelines because providing accessible recreational vehicle parking spaces in general use parking areas raises issues affecting other facilities, in addition to camping facilities. The Access Board will consider these issues when the ADA-ABA Accessibility Guidelines are updated.

Picnic Facilities

The definitions in F106.5 include two new terms: picnic facility and picnic unit. A picnic facility is a site, or portion of a site, developed for outdoor recreational purposes that contains picnic units. A picnic unit is an outdoor space in a picnic facility used for picnicking that contains outdoor constructed features. A picnic unit can contain only one outdoor constructed feature (e.g., a picnic table or a grill).

Picnic facilities on trails are addressed in the scoping provisions for trails in F247.5.2 and are discussed under Trails. All other picnic facilities are addressed in the scoping provisions at F245.

The scoping provision in F245.2 requires at least 20 percent of picnic units in newly constructed picnic facilities to be accessible, where more than two picnic units are provided. In picnic facilities with two or fewer picnic units, each newly constructed picnic unit is required to be accessible. For existing picnic facilities, at least 20 percent of the picnic units that are altered or added are required to be accessible until the number of accessible picnic units complies with the minimum number required for new construction.

An exception addresses the situation where individual components within picnic units are altered to ensure that accessible components are located within accessible picnic units. Under the exception, where a Federal agency is implementing a transition plan pursuant to Section 504 of the Rehabilitation Act and has designated specific picnic units in an existing picnic facility to become accessible, the agency is not required to comply with the scoping provisions when altering individual components within picnic units that are not designated to become accessible under the transition plan.

The scoping provision in F245.2.3 requires accessible picnic units to be dispersed within the picnic facility to provide choices of picnic units comparable to, and integrated with, those available to others.

The scoping provisions in F245.2.4 require:

- Outdoor constructed features within accessible picnic units to comply with the technical provisions in 1011. These technical provisions are discussed under Outdoor Constructed Features.
- Parking spaces within accessible picnic units to comply with the technical provisions in 1012. These technical provisions address minimum width, firm and stable surface, and maximum slope.

An exception addresses the situation where more than one component of the same type is provided within an accessible picnic unit. The exception requires no more than 20 percent but at least two of the same type of component to be accessible.

The scoping provision in F245.3 requires at least 20 percent of the outdoor constructed features in common use and public use areas that serve accessible picnic units to be accessible.

The scoping provisions in F245.4 address outdoor recreation access routes in picnic facilities and are shown in the table below.

Scoping Provisions for Outdoor Recreation Access Routes in Picnic Facilities	
Location	Outdoor Recreation Access Route Required to Connect
Accessible picnic units	Accessible outdoor constructed features, elements, spaces, and facilities within each accessible picnic unit
Common use and public use areas	Each accessible picnic unit to accessible outdoor constructed features, elements, spaces, and facilities in common use and public use areas that serve the accessible picnic unit
Adjacent recreation facilities	Accessible picnic units to accessible route serving the adjacent

Scoping Provisions for Outdoor Recreation Access Routes in Picnic Facilities	
Location	Outdoor Recreation Access Route Required to Connect
connected to picnic facility by a circulation path	recreation facility (e.g., accessible route serving entry point to a play area)

Viewing Areas

Viewing areas are defined in F106.5 as an outdoor space developed for viewing a landscape or point of interest such as a mountain range, a valley, or a waterfall.

Viewing areas on trails are addressed in the scoping provisions for trails in F247.5.1 and are discussed under Trails. All other viewing areas are addressed in the scoping provisions in F246.

The scoping provisions require each distinct viewing location within a viewing area to comply with the technical provisions in 1015, including clear ground space, turning space, and unobstructed view. A conditional exception is added to the technical provisions for viewing areas and is discussed under Conditional Exceptions. An exception is added to 1015.3 that permits guardrails and other safety barriers to obstruct the view. Advisory 1015.3 recommends using see-thru panels or screened openings to create an unobstructed view where guardrails or other safety barriers are provided.

The scoping provisions require at least 20 percent of each type of outdoor constructed feature provided within a viewing area to be accessible. The scoping provisions also require an outdoor recreation access route to connect accessible parking spaces or other site arrival points to the accessible outdoor constructed features, elements, spaces, and facilities within the viewing area.

Outdoor Recreation Access Routes

The scoping provisions for outdoor recreation access routes are contained in the scoping provisions for camping facilities, picnic facilities, viewing areas, and trailheads. The scoping provisions are discussed under the Summary of Provisions for those facilities. Outdoor recreation access routes can only be provided at these facilities. Where a roadway serves as the general circulation path for pedestrians at these facilities, the outdoor recreation access route can be provided within the roadway. Outdoor recreation access routes are not required where camping facilities, picnic facilities, viewing areas, or outdoor constructed features are provided on trails.

The technical provisions for outdoor recreation access routes in 1016 address surface in 1016.2; clear width in 1016.3; passing spaces in 1016.4; obstacles in 1016.5; openings in 1016.6; slopes in 1016.7; resting intervals in 1016.8; and protruding objects in 1016.9. The technical provisions are the same as in the NPRM, except as follows:

- Conditional exceptions apply to each technical provision for alterations to existing camping facilities, picnic facilities, and trailheads. Conditional exceptions apply to each technical provision for both newly constructed viewing areas and alterations to existing viewing areas. The conditional exceptions are discussed under Conditional Exceptions.

- Where an outdoor recreation access route is provided within a roadway, the outdoor recreation access route is not required to comply with the passing space, slope, and resting interval provisions.
- Where concrete, asphalt, or boards are used, obstacles cannot exceed ½ inch in height and the cross slope and resting interval slope cannot exceed 1:48. These provisions are discussed under Concrete, Asphalt, or Board Surfaces.
- The NPRM exceptions for openings are included in 302.3 of the ADA-ABA Accessibility Guidelines.
- Where resting intervals are provided adjacent to the outdoor recreation access route, a turning space is required.

Trailheads

Trailheads are defined in F106.5 as an outdoor space developed to serve as an access point to a trail. The junction of two or more trails, where no other access point is provided to the trails, is not a trailhead.

The scoping provisions for trailheads are contained in F247.4. The provisions require new signs provided at trailheads on newly constructed or altered trails to include information on the length of the trail or trail segment; surface type; typical and minimum tread width; and typical and maximum running slope and cross slope. The U.S. Forest Service currently provides this information on trailhead signs posted on certain trails in national forests.

The scoping provisions require at least 20 percent of each type of outdoor constructed feature provided within a trailhead to be accessible. The scoping provisions also require an outdoor recreation access route to connect accessible parking spaces or other site arrival points to the accessible outdoor constructed features, elements, spaces, and facilities within the trailhead.

Trails

Trails are defined in F106.5 as a pedestrian route developed primarily for outdoor recreational purposes. A pedestrian route developed primarily to connect elements, spaces, or facilities within a site is not a trail.

The NPRM discussed shared-use paths that are developed for use by pedestrians and other groups such as bicyclists. Shared use paths are also called “hiker-biker trails.” The NPRM indicated that the scoping and technical provisions for trails apply to shared-use paths. The Access Board has further considered this issue and plans to conduct a separate rulemaking in the future to address shared use paths because they are also used for transportation purposes and may be subject to higher design standards.

The scoping provisions for trails are contained in F247. These provisions require trails to comply with the technical provisions for trails in 1017 when all the following conditions are met:

- The trail is newly constructed or altered so that the original design, function, or purpose of the trail is changed. Routine or periodic maintenance activities that are performed to return an existing trail to the condition to which the trail was originally designed are not alterations.
- The trail is designed for pedestrian use.
- The trail connects to a trailhead or to another trail that complies with the technical provisions in 1017.

The technical provisions for trails in 1017 address surface in 1017.2; clear tread width in 1017.3; passing spaces in 1017.4; obstacles in 1017.5; openings in 1017.6; slopes in 1017.7; resting intervals in 1017.8; protruding objects in 1017.9; and gates and barriers in 1017.10. The technical provisions are the same as in the NPRM, except as follows:

- Conditional exceptions apply to each technical provision for newly constructed and altered trails. The conditional exceptions are discussed under Conditional Exceptions.
- The exception based on situations where it is impractical to require the entire trail to comply with the technical provisions is revised. The exception is discussed under Exceptions for Trails and Beach Access Routes.
- Where concrete, asphalt, or boards are used, obstacles cannot exceed ½ inch in height and the cross slope and resting interval slope cannot exceed 1:48. These provisions are discussed under Concrete, Asphalt, or Board Surfaces.
- The NPRM exceptions for openings are included in 302.3 of the ADA-ABA Accessibility Guidelines.
- Where resting intervals are provided adjacent to the trail, a turning space is required.
- Provisions are added for gates and barriers constructed to control access to trails.

The scoping provisions for trails also address camping facilities, picnic facilities, viewing areas, and outdoor constructed features provided on trails. These facilities are required to comply with the applicable scoping and technical provisions for each facility, regardless of whether the trail complies with the technical provisions in 1017. Individuals with disabilities use trails that do not comply with the technical provisions of 1017 and, therefore, facilities provided on such trails are required to be accessible. Camping facilities, picnic facilities, viewing areas, and outdoor constructed features provided on trails are connected to a trail, and are not required to be connected to an outdoor recreation access route.

The draft final accessibility guidelines do not include provisions for pit toilets or warming huts. The technical assistance document that accompanies the final accessibility guidelines will include examples of pit toilets and discuss how provisions in 603 and 604 of the ADA-ABA Accessibility Guidelines can be applied to pit toilets.

Beach Access Routes

The scoping provisions for beach access routes are contained in F248. The provisions are revised from the NPRM based on the comments and information meeting. The Access Board also visited beaches where beach access routes are provided. The provisions require a permanent or removable beach access route to be provided when the entity that manages a beach engages in any of the following activities:

- Constructs or alters any of these facilities to serve the beach: circulation paths, parking facilities, toilet facilities, or bathing facilities.
- Undertakes a beach nourishment project.

There are three exceptions to the scoping provisions:

- A beach access route is not required where pedestrian access to the beach is not permitted.
- An entity is not required to expend more than 20 percent of the cost of constructing or altering the facilities to serve the beach to provide a beach access route.
- An entity is not required to expend more than 20 percent of the cost of the beach nourishment project to provide a beach access route.

Where a beach access route is required, the entity is required to provide at least one beach access route for each ½ mile of shoreline managed by the entity. The beach access route is required to coincide with or be located in the same area as pedestrian access points to the beach. An exception limits the number of beach access routes required to not exceed the number of pedestrian access points provided by the entity to the beach.

The technical provisions for beach access routes address connections in 1018.2; surface in 1018.3; clear width in 1018.4; obstacles in 1018.5; openings in 1018.6; slopes in 1018.7; resting intervals in 1018.8; protruding objects in 1018.9; and elevated dune crossings in 1018.10. The technical provisions are the same as in the NPRM, except as follows:

- Conditional exceptions apply to each technical provision for new construction and alterations. The conditional exceptions are discussed under Conditional Exceptions.
- An exception is added for situations where it is impractical to require a beach access route. The exception is discussed under Exceptions for Trails and Beach Access Routes.
- The clear width is increased to 60 inches minimum. At beaches that provide beach access routes, they are the preferred path of travel for many beach users, and the increased width is necessary to provide adequate space for individuals with disabilities to

pass other users and not go off into the sand. Passing spaces and turning space are not required because of the increased width.

- Removable beach access routes are not required to comply with the slope and resting interval provisions.
- Where concrete, asphalt, or boards are used, obstacles cannot exceed ½ inch in height and the cross slope and resting interval slope cannot exceed 1:48. These provisions are discussed under Concrete, Asphalt, or Board Surfaces.
- The NPRM exceptions for openings are included in 302.3 of the ADA-ABA Accessibility Guidelines.
- Where resting intervals are provided adjacent to the beach access route, a turning space is required.
- A provision is added to address elevated dune crossings. The provision requires handrails and edge protection on elevated dune crossings. Exceptions permit the clear width to be reduced to 48 inches minimum and do not require resting intervals.

Future Rulemaking

After the final accessibility guidelines are issued the Access Board plans to conduct additional rulemaking on outdoor developed areas for facilities constructed or altered with Federal grants or loans that are covered by the Architectural Barriers Act, and for public and private entities covered by the Americans with Disabilities Act. The Access Board also plans to address shared-use paths in these future rulemakings.

Regulatory Process Matters

These guidelines have been reviewed by the Office of Management and Budget pursuant to Executive Order 12866. The Access Board prepared a regulatory assessment for the guidelines. The regulatory assessment is available on the Access Board's website at <http://www.access-board.gov/outdoor/assessment.htm>. The guidelines apply to the new construction and alteration of outdoor developed areas by Federal agencies subject to the Architectural Barriers Act. The guidelines will primarily affect the following Federal land management agencies in the Department of Agriculture: Forest Service; in the Department of the Interior: National Park Service, Fish and Wildlife Service, Bureau of Land Management, and Bureau of Reclamation; and in the Department of Defense: Army Corps of Engineers.

Text of Draft Final Accessibility Guidelines

AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES

ABA CHAPTER 1: APPLICATION AND ADMINISTRATION

Add new defined terms to F106.5 as follows:

F106.5 Defined Terms

Camping Facility. A *site*, or portion of a *site*, developed for outdoor recreational purposes that contains *camping units*.

Camping Unit. An outdoor *space* in *camping facilities* used for camping that contains *outdoor constructed features*, parking *spaces* for recreational vehicles or other vehicles, tent pads or tent platforms, or camp shelters.

Outdoor Constructed Features. Picnic tables, fire rings, grills, fireplaces, wood stoves, trash and recycling receptacles, water hydrants, utility and sewage hookups, outdoor rinsing showers, benches, telescopes, and periscopes provided at outdoor recreation *facilities*.

Picnic Facility. A *site*, or portion of a *site*, developed for outdoor recreational purposes that contains *picnic units*.

Picnic Unit. An outdoor *space* in *picnic facilities* used for picnicking that contains *outdoor constructed features*.

Trail. A pedestrian route developed primarily for outdoor recreational purposes. A pedestrian route developed primarily to connect elements, spaces, or facilities within a site is not a trail.

Trailhead. An outdoor *space* developed to serve as an access point to a *trail*. The junction of two or more *trails*, where no other access point is provided to the *trails*, is not a *trailhead*.

Viewing Area. An outdoor *space* developed for viewing a landscape or point of interest such as a mountain range, a valley, or a waterfall.

Amend the following existing defined terms in F106.5 to remove the examples:

F106.5 Defined Terms

Circulation Path. An exterior or interior way of passage provided for pedestrian travel.

Walk. An exterior prepared surface for pedestrian use.

ABA CHAPTER 2: SCOPING REQUIREMENTS

Add new sections F201.4 and F201.4.1 as follows:

F201.4 Requirements Limited to Facilities Constructed or Altered by or on behalf of the Federal Government. The requirements in F244 through F248, and 1011 through 1019 shall apply only to *facilities* that are constructed or *altered* by or on behalf of the Federal government.

Advisory F201.4 Requirements Limited to Facilities Constructed by or on behalf of the Federal Government. *The scoping requirements for camping facilities in F244; picnic facilities in F245; viewing areas in F246; trails in F247; and beach access routes in F248 and the related technical requirements in 1011 through 1019 apply to Federal land management agencies, including the U.S. Forest Service, National Park Service, Fish and Wildlife Service, Bureau of Land Management, Bureau of Reclamation, and Army Corps of Engineers. The requirements also apply to non-federal entities that construct or alter camping facilities, picnic facilities, beach facilities, trails, or viewing areas on Federal lands on behalf of the Federal government pursuant to a concession contract, agreement, or other arrangement.*

F201.4.1 Notification When Entire Trail or Beach Access Route Exempted. Federal agencies shall notify the Access Board when an entire trail is exempted based on Exception 2 in 1017.1 or an entire beach access route is exempted based on Exception 2 in 1018.1.

Add term “outdoor constructed features” to F202.3 and add new Exception 4 to F202.3 as follows:

F202.3 Alterations. Where existing *elements, spaces, or outdoor constructed features* are *altered*, each *altered element, space, or outdoor constructed feature* shall comply with the applicable requirements of Chapter 2.

EXCEPTIONS: 1. Unless required by F202.4, where *elements or spaces* are *altered* and the *circulation path* to the *altered element or space* is not *altered*, an *accessible route* shall not be required.

2. In *alterations*, where compliance with applicable requirements is *technically infeasible*, the *alteration* shall comply with the requirements to the maximum extent feasible.

3. *Residential dwelling units* not required to be *accessible* in compliance with a standard issued pursuant to the Americans with Disabilities Act or Section 504 of the Rehabilitation Act shall not be required to comply with F202.3.

4. Where *elements, spaces, or outdoor constructed features* are *altered* in *camping facilities, picnic facilities, viewing areas, or trailheads* and the *circulation path* to the *altered element, space, or outdoor constructed feature* is not *altered*, an *outdoor recreation access route* shall not be required.

Advisory F202.3 Alterations. *Although covered entities are permitted to limit the scope of an alteration to individual elements or outdoor constructed features, the alteration of multiple elements or outdoor constructed features within a room or space may provide a cost-effective*

opportunity to make the entire room or space accessible. Any elements, spaces, or outdoor constructed features of the building or facility that are required to comply with these requirements must be made accessible within the scope of the alteration, to the maximum extent feasible. If providing accessibility in compliance with these requirements for people with one type of disability (e.g., people who use wheelchairs) is not feasible, accessibility must still be provided in compliance with the requirements for people with other types of disabilities (e.g., people who have hearing impairments or who have vision impairments) to the extent that such accessibility is feasible.

Add new Exception 2 to F202.4 as follows:

F202.4 Alterations Affecting Primary Function Areas. In addition to the requirements of F202.3, an *alteration* that affects or could affect the usability of or access to an area containing a primary function shall be made so as to ensure that, to the maximum extent feasible, the path of travel to the *altered* area, including the restrooms, telephones, and drinking fountains serving the *altered* area, are readily *accessible* to and usable by individuals with disabilities, unless such *alterations* are disproportionate to the overall *alterations* in terms of cost and scope as determined under criteria established by the Administrator of the General Services Administration, the Secretary of Defense, the Secretary of Housing or Urban Development, or the United States Postal Service.

EXCEPTIONS: 1. *Residential dwelling units* shall not be required to comply with F202.4.

2. *Camping facilities, picnic facilities, viewing areas, trailheads, trails, and beach access routes* shall not be required to comply with F202.4.

Amend F206.1 for clarity and add new Exceptions 1, 2, and 3 to F206.1 as follows:

F206.1 General. *Accessible routes* shall be provided in accordance with F206 and shall comply with Chapter 4. The Exceptions in 403.5, 405.5, and 405.8 regarding *common use circulation paths* in employee work areas shall not apply.

EXCEPTIONS: 1. *Accessible routes* shall not be required where outdoor recreation access routes are provided within *camping facilities* in accordance with F244.5, *picnic facilities* in accordance with F245.4, *viewing areas* in accordance with F246.3, or *trailheads* in accordance with F247.4.2.

2. *Accessible routes* shall not be required where *camping facilities, picnic facilities, viewing areas, or outdoor constructed features* are provided on *trails*.

3. *Accessible routes* shall not be required where beach access routes are provided in accordance with F248.

Add new Exception 2 to F212.3 as follows:

F212.3 Sinks. Where sinks are provided, at least 5 percent, but no fewer than one, of each type provided in each *accessible room or space* shall comply with 606.

EXCEPTIONS: 1. Mop or service sinks shall not be required to comply with F212.3.

2. In *camping facilities* and *picnic facilities*, sinks shall not be required to comply with F212.3 where a cooktop or conventional range is not provided.

Add new sections F244 through F248 as follows:

F244 Camping Facilities

F244.1 General. *Camping facilities, other than camping facilities on trails, shall comply with F244.*

Advisory F244.1 General. *Camping facilities on trails are addressed in F247.5.1.*

F244.2 Camping Units. *Camping facilities shall provide accessible camping units in accordance with F244.2.*

F244.2.1 Minimum Number. Newly constructed *camping facilities* shall provide *accessible camping units* in accordance with Table F244.2.1. Where a *camping facility* provides separate types of *camping units* for recreational vehicles only, for tent camping only, or for camp shelters only, Table F244.2.1 shall apply to each separate type of *camping unit* provided.

Table F244.2.1 Camping Units

Total Number of Camping Units Provided in Camping Facility	Minimum Number of Accessible Camping Units Required
1	1
2 to 25	2
26 to 50	3
51 to 75	4
76 to 100	5
101 to 150	7
151 to 200	8
201 and over	8, plus 2 percent of the number over 200

F244.2.2 Alterations. Where *camping units* are *altered* or *added*, the requirements of F244.2 shall apply only to the *camping units* that are *altered* or *added* until the number of *accessible camping units* complies with the minimum number required for new construction.

EXCEPTION: Where an entity is implementing a transition plan developed pursuant to regulations issued under Section 504 of the Rehabilitation Act that designates specific *camping units* to comply with F244.2, the entity shall not be required to comply with F244.2 when *altering* individual *outdoor constructed features* or *spaces* within *camping units* that are not designated to comply with F244.2.

Advisory F244.2.2 Alterations Exception. *This exception addresses the situation where a camping facility does not provide the minimum required number of accessible camping units,*

and individual outdoor constructed features or spaces within camping units are altered. Where a Federal agency is implementing a transition plan that designates specific camping units to become accessible, the Federal agency is not required to comply with F244.2 when altering individual outdoor constructed features or spaces within camping units that are not designated to become accessible under the transition plan. The exception does not apply where all the outdoor constructed features and spaces within a camping unit are altered. Where all the outdoor constructed features and spaces within a camping unit are altered, the altered camping unit is required to comply with F244.2 unless the minimum required number of accessible camping units is provided.

F244.2.3 Dispersion. *Accessible camping units shall provide choices of camping units comparable to, and integrated with, those available to others.*

F244.2.4 Accessible Camping Units. *Accessible camping units shall comply with F244.2.4.*

EXCEPTIONS: 1. *Where accessible camping units contain more than one outdoor constructed feature or parking space of the same type, no more than 20 percent but not less than two of the outdoor constructed features or parking spaces of the same type shall be required to comply with F244.2.4.*

2. *Where accessible camping units contain more than one tent pad, tent platform, or camp shelter, no more than 20 percent but not less than two of the tent pads, tent platforms, or camp shelters shall be required to comply with F244.2.4.*

Advisory F244.2.4 Accessible Camping Units. *Accessible camping units are not required to be identified by signs. Entities should provide information on the location of accessible camping units on websites, in brochures, and at bulletin boards or information kiosks at the camping facility. Where entities operate reservation systems for camping units or assign camping units upon arrival, entities should establish policies to ensure that accessible camping units are available for persons with disabilities until all the camping units are occupied.*

F244.2.4.1 Outdoor Constructed Features. *Where provided within accessible camping units, outdoor constructed features shall comply with 1011.*

F244.2.4.2 Parking Spaces. *Where provided within accessible camping units, parking spaces for recreational vehicles shall comply with 1012.2, 1012.4, and 1012.5; and parking spaces for vehicles other than recreational vehicles shall comply with 1012.3, 1012.4, and 1012.5.*

F244.2.4.3 Tent Pads and Tent Platforms. *Where provided within accessible camping units, tent pads and tent platforms shall comply with 1013.*

F244.2.4.4 Camp Shelters. *Where provided within accessible camping units, camp shelters shall comply with 1014.*

F244.3 Outdoor Constructed Features in Common Use and Public Use Areas. *Where provided in common use and public use areas that serve accessible camping units, at least 20*

percent but not less than one of each type of *outdoor constructed feature* provided at each location shall comply with 1011.

F244.4 Recreational Vehicle Dump Stations. Pull-up *spaces* for recreational vehicles at dump stations shall comply with 1012.2, 1012.4, and 1012.5.

F244.5 Outdoor Recreation Access Routes. *Camping facilities* shall provide outdoor recreation access routes complying with 1016 in accordance with F244.5.

Advisory F244.5 Outdoor Recreation Access Route. *In alterations to existing camping facilities, there are exceptions in 1016.1 that can be used where conditions specified in 1019 apply.*

F244.5.1 Within Accessible Camping Units. At least one outdoor recreation access route shall connect *accessible outdoor constructed features, elements, spaces, and facilities* within each *accessible camping unit*.

F244.5.2 Common Use and Public Use Areas. At least one outdoor recreation access route shall connect each *accessible camping unit* with *accessible outdoor constructed features, elements, spaces, and facilities* in *common use* and *public use* areas within the *camping facility* that serve the *accessible camping unit*.

EXCEPTION: Outdoor recreation access routes shall not be required to connect *accessible camping units* and recreational vehicle dump stations, provided an outdoor recreation access route connects an *accessible vehicle pull-up space* at the dump station to *accessible outdoor constructed features, elements, spaces, and facilities* provided at the dump station.

F244.5.3 Adjacent Recreation Facilities. Where a *circulation path* connects *camping facilities* and adjacent recreation *facilities*, at least one outdoor recreation access route shall connect *accessible camping units* within the *camping facility* to an *accessible route* serving the adjacent recreation *facility*.

Advisory F244.5.3 Adjacent Recreation Facilities. *F244.5.3 does not modify the accessible route requirements in F206.2.1, F206.2.4, and F206.2.8 through F206.2.16 that apply to adjacent recreation facilities.*

F244.5.4 Location. Outdoor recreation access routes required by F244.5.2 and F244.5.3 shall coincide with or be located in the same area as general *circulation paths*.

Advisory F244.5.4 Location. *Where a vehicular way serves as the general circulation path for pedestrians at a camping facility, the outdoor recreation access route can be provided within the vehicular way.*

F245 Picnic Facilities

F245.1 General. *Picnic facilities*, other than *picnic facilities on trails*, shall comply with F245.

Advisory F245.1 General. *Picnic facilities on trails are addressed in F247.5.2.*

F245.2 Picnic Units. *Picnic facilities shall provide accessible picnic units in accordance with F245.2.*

F245.2.1 Minimum Number. *Newly constructed picnic facilities shall provide accessible picnic units in accordance with F245.2.1.*

F245.2.1.1 Picnic Facilities with Two or Fewer Picnic Units. *Where picnic facilities contain two or fewer picnic units, each picnic unit shall be accessible.*

F245.2.1.2 Picnic Facilities with More Than Two Picnic Units. *Where picnic facilities contain more than two picnic units, at least 20 percent but not less than two of the picnic units shall be accessible.*

F245.2.2 Alterations. *Where picnic units are altered or added, the requirements of F245.2 shall apply only to the picnic units that are altered or added until the number of accessible picnic units complies with the minimum number required for new construction.*

EXCEPTION: *Where an entity is implementing a transition plan developed pursuant to regulations issued under Section 504 of the Rehabilitation Act that designates specific picnic units to comply with F245.2, the entity shall not be required to comply with F245.2 when altering individual outdoor constructed features or spaces in picnic units that are not designated to comply with F245.2.*

Advisory F245.2.2 Alterations Exception. *This exception addresses the situation where a picnic facility does not provide the minimum required number of accessible picnic units, and individual outdoor constructed features or spaces within picnic units are altered. Where a Federal agency is implementing a transition plan that designates specific picnic units to become accessible, the Federal agency is not required to comply with F245.2 when altering individual outdoor constructed features or spaces within picnic units that are not designated to become accessible under the transition plan. The exception does not apply where all the outdoor constructed features and spaces within a picnic unit are altered. Where all the outdoor constructed features and spaces within a picnic unit are altered, the altered picnic unit is required to comply with F245.2 unless the minimum required number of accessible picnic units is provided.*

F245.2.3 Dispersion. *Accessible picnic units shall provide choices of picnic units comparable to, and integrated with, those available to others.*

F245.2.4 Accessible Picnic Units. *Accessible picnic units shall comply with F245.2.4.*

EXCEPTION: *Where accessible picnic units contain more than one parking space or outdoor constructed feature of the same type, no more than 20 percent but not less than two of the parking spaces or outdoor constructed features of the same type shall be required to comply with F245.2.4.*

Advisory F245.2.4 Accessible Picnic Units. *Accessible picnic units are not required to be identified by signs. Entities should provide information on the location of accessible picnic units on websites, in brochures, and at bulletin boards or information kiosks at the picnic facility.*

F245.2.4.1 Outdoor Constructed Features. Where provided within *accessible picnic units*, *outdoor constructed features* shall comply with 1011.

F245.2.4.2 Parking Spaces. Where provided within *accessible picnic units*, *parking spaces* shall comply with 1012.3, 1012.4, and 1012.5.

F245.3 Outdoor Constructed Features in Common Use and Public Use Areas. Where provided in *common use* and *public use* areas that serve *accessible picnic units*, at least 20 percent but not less than one of each type of *outdoor constructed feature* provided at each location shall comply with 1011.

F245.4 Outdoor Recreation Access Routes. *Picnic facilities* shall provide outdoor recreation access routes complying with 1016 where required by F245.4.

Advisory F245.4. Outdoor Recreation Access Route. *In alterations to existing picnic facilities, there are exceptions in 1016.1 that can be used where conditions specified in 1019 apply.*

F245.4.1 Within Accessible Picnic Units. At least one outdoor recreation access route shall connect *accessible outdoor constructed features, elements, spaces, and facilities* within each *accessible picnic unit*.

F245.4.2 Common Use and Public Use Areas. At least one outdoor recreation access route shall connect each *accessible picnic unit* with *accessible outdoor constructed features, elements, spaces, and facilities* in *common use* and *public use* areas within the *picnic facility* that serve the *accessible picnic unit*.

F245.4.3 Adjacent Recreation Facilities. Where a *circulation path* connects *picnic facilities* and adjacent *recreation facilities*, at least one outdoor recreation access route shall connect *accessible picnic units* within the *picnic facility* to an *accessible route* serving the adjacent *recreation facility*.

Advisory F245.4.3 Adjacent Recreation Facilities. *F245.4.3 does not modify the accessible route requirements in F206.2.1, F206.2.4, and F206.2.8 through F206.2.16 that apply to adjacent recreation facilities.*

F245.4.4 Location. Outdoor recreation access routes required by F245.4.2 and F245.4.3 shall coincide with or be located in the same area as general *circulation paths*.

Advisory F245.4.4 Location. *Where a vehicular way serves as the general circulation path for pedestrians at a picnic facility, the outdoor recreation access route can be provided within the vehicular way.*

F246 Viewing Areas

F246.1 General. *Viewing areas, other than viewing areas on trails, shall comply with F246.1.*

Advisory F246.1 General. *Viewing areas on trails are addressed in F247.6.3.*

F246.2 Distinct Viewing Locations. Each distinct viewing location within a *viewing area* shall comply with 1015.

Advisory F246.2 Distinct Viewing Locations. *Viewing areas can provide more than one distinct viewing location. For example, a viewing area can provide a distinct viewing location for observing a mountain range, and another distinct viewing location for observing a river. Distinct viewing locations within a viewing area can be designated by signs or other markers.*

F246.3 Outdoor Constructed Features. Where provided within *viewing areas*, at least 20 percent but not less than one of each type of *outdoor constructed feature* shall comply with 1011.

F246.4 Outdoor Recreation Access Routes.

At least one outdoor recreation access route complying with 1016 shall connect the following where provided at *viewing areas*:

1. *Accessible parking spaces* or other arrival points; and
2. *Accessible outdoor constructed features, elements, spaces, and facilities* within the *viewing area*.

Advisory F246.4. Outdoor Recreation Access Route. *There are exceptions in 1016.1 that can be used where conditions specified in 1019 apply.*

F247 Trails

F247.1 General. *Trails* shall comply with F247 where the *trail* is directly connected to:

1. A *trailhead*; or
2. Another *trail* complying with 1017.

EXCEPTION: *Trails* that are designed for use by other than pedestrians shall not be required to comply with F247.

Advisory F247.1 General. *On trails that contain trail segments, only the trail segments that directly connect to a trailhead or another trail segment complying with 1017 are required to comply with F247.*

Advisory F247.1 General Exception. *The Federal Trail Data Standards [<http://www.nps.gov/gis/trails/>] classify trails by their designed use and managed use. Under these standards, a trail has only one designed use that determines the design, construction, and maintenance parameters for the trail. Trails that have a designed use for hikers/pedestrians are required to comply with F247. A trail can have more than one managed use based on a management decision to allow other uses on the trail.*

F247.2 New Construction. Newly constructed *trails* shall comply with 1017.

Advisory F247.2 New Construction. *There are exceptions in 1017.1 that can be used where conditions specified in 1019 apply.*

F247.3 Existing Trails. *Alterations to existing trails that change the original design, function, or purpose of the trail shall comply with 1017.*

Advisory F247.3 Existing Trails. *Changing the overall grade, width, or surface of an existing trail, or rerouting an existing trail are examples of alterations that are required to comply with 1017. Routine or periodic maintenance activities that are performed to return an existing trail to the condition to which the trail was originally designed are not required to comply with 1017.*

F247.4 Trailheads. *Trailheads* shall comply with F247.4.

F247.4.1 Trailhead Signs. Where new signs are provided at *trailheads* on newly constructed or *altered trails*, the signs shall comply with 1017.11.

Advisory F247.4.1 Trailhead Signs. *New trailhead signs are required to comply with F247.5 regardless of whether the newly constructed or altered trails comply with 1017.*

F247.4.2 Outdoor Constructed Features. Where provided within *trailheads*, at least 20 percent but not less than one of each type of *outdoor constructed feature* provided shall comply with 1011.

F247.4.3 Outdoor Recreation Access Routes.

At least one outdoor recreation access route complying with 1016 shall connect the following where provided at *trailheads*:

1. *Accessible parking spaces* or other arrival points;
2. Starting point of the *trail*; and
3. *Accessible outdoor constructed features, elements, spaces, and facilities* within the *trailhead*.

Advisory F247.4.3 Outdoor Recreation Access Route. *In alterations to existing trailheads, there are exceptions in 1016.1 that can be used where conditions specified in 1019 apply.*

F247.5 Trail Facilities. Where provided on *trails*, *facilities* shall comply with F247.5.

Advisory F247.5 Trail Facilities. *Outdoor recreation access routes are not required at camping facilities, picnic facilities, or viewing areas provided on trails.*

F247.5.1 Camping Facilities. *Camping facilities* provided on *trails* shall comply with F244.2 and F244.3.

F247.5.2 Picnic Facilities. *Picnic facilities* provided on *trails* shall comply with F245.2 and F245.3.

F247.5.3 Viewing Areas. *Viewing areas* provided on *trails* shall comply with F246.2 and F246.3.

F247.6 Outdoor Constructed Features. Where *outdoor constructed features* are provided on *trails*, other than within *facilities* specified in F247.5, at least 20 percent but not less than one of each type of *outdoor constructed feature* at each location shall comply with 1011.

F248 Beach Access Routes

F248.1 General. Beach access routes complying with 1018 shall be provided where required by F248.1. Beach access routes shall be permanent or removable.

EXCEPTION: Beach access routes shall not be required where pedestrian access to the beach is not permitted.

Advisory F248.1 General. *There are exceptions in 1018.1 that can be used where conditions specified in 1019 apply. Removable beach access routes can be moved to a protected storage area during storms and other periods when the routes are subject to damage or loss.*

F248.1.1 Facilities Serving Beaches. Beach access routes shall be provided in a number complying with F248.2 where the entity that manages a beach constructs or *alters* any of the following *facilities* to serve the beach:

1. *Circulation paths;*
2. *Parking facilities;*
3. *Toilet facilities;* or
4. *Bathing facilities.*

EXCEPTION: An entity shall not be required to expend more than 20 percent of the costs of constructing or *altering* the *facilities* to provide beach access routes.

F248.1.2 Beach Nourishment. Beach access routes shall be provided in a number complying with F248.2 where the entity that manages a beach undertakes a beach nourishment project.

EXCEPTION: An entity shall not be required to expend more than 20 percent of the costs of a beach nourishment project to provide beach access routes.

F248.2 Minimum Number. Where beach access routes are required by F248.1, at least one beach access route shall be provided for each ½ mile (0.8 km) of shoreline managed by the entity.

EXCEPTION: The number of beach access routes shall not be required to exceed the number of pedestrian access points provided by the entity to a beach.

Advisory F248.2 Minimum Number Exception. Pedestrian access points to a beach include parking facilities that serve beaches, dune crossings, and stairways or ramps leading from boardwalks to the beach.

F248.3 Location. Beach access routes shall coincide with or be located in the same area as pedestrian access points to the beach.

CHAPTER 3: BUILDING BLOCKS

Add “diagonal” to last sentence of 302.3 and new Exception to 302.3 as follows:

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than ½ inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular or diagonal to the dominant direction of travel.

EXCEPTION: Elongated openings shall be permitted to be placed so that the long dimension is parallel to the dominant direction of travel provided the opening does not allow passage of a sphere more than ¼ inch (6.4 mm) diameter.

CHAPTER 10: RECREATION FACILITIES

Amend Advisory 1001.1 to read as follows:

1001.1 Scope. The provisions of Chapter 10 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

Advisory 1001.1 Scope. Unless otherwise modified or specifically addressed in Chapter 10, all other requirements in this document apply to the design and construction of recreation facilities.

The requirements in 1011 through 1019 apply only to outdoor recreation facilities designed, constructed, or altered by or on behalf of Federal agencies. The requirements for these outdoor recreation facilities differ due to limitations and other constraints posed by the existing outdoor environment.

Add new sections 1011 through 1019 as follows:

1011 Outdoor Constructed Features

1011.1 General. All *outdoor constructed features* shall comply with 1011.2 and 1011.3. *Outdoor constructed features* specified in 1011.4 through 1011.8 shall comply with those requirements, as applicable.

Advisory 1011.1 General. *The requirements in 1011 apply to outdoor constructed features provided within camping facilities, picnic facilities, viewing areas, and trailheads or on trails.*

1011.2 Clear Ground Space. A clear ground *space* complying with 1011.2 shall be provided at *outdoor constructed features*.

EXCEPTIONS: 1. Where individual *outdoor constructed features* are *altered* and the ground surface is not altered, the clear ground *space* shall not be required to comply with 1011.2.2 and 1011.2.3.

2. In *alterations*, where a condition in 1019 does not permit full compliance, the clear ground *space* shall comply with 1011.2 to the maximum extent feasible.

1011.2.1 Size and Location. The size and location of the clear ground *space* shall be in accordance with Table 1011.2.1. Unless otherwise specified in Table 1011.2.1, one full unobstructed side of the clear ground *space* shall adjoin or overlap an outdoor recreation access route or a *trail*, as applicable, or another clear ground *space*.

Table 1011.2.1 Clear Ground Space

Outdoor Constructed Feature	Minimum Size and Location
Picnic tables	36 inches (915 mm) along all usable sides of the table measured from the back edge of the benches
Fire rings, grills, fireplaces, and woodstoves	48 inches (1220 mm) by 48 inches (1220 mm) on all usable sides of the fire ring, grill, fireplace, or woodstove Center the <i>space</i> on each usable side of the grill, fireplace, and woodstove
Trash and recycling receptacles	36 inches (915 mm) by 48 inches (1220 mm) positioned for forward approach to the receptacle opening; or 30 inches (760 mm) by 60 inches (1525 mm) positioned for a parallel approach to the receptacle opening
Water hydrants	48 inches (1220 mm) by 72 inches (1830 mm) with the long side of the <i>space</i> adjoining or overlapping an outdoor recreation access route or <i>trail</i> , as applicable, or another clear ground <i>space</i> Locate the <i>space</i> so that the water spout is 11 inches (280 mm) minimum and 12 inches (305 mm) maximum from the rear center of the long side of the <i>space</i>
Utility and sewage hookups	30 inches (760 mm) by 60 inches (1525 mm) with the

Outdoor Constructed Feature	Minimum Size and Location
	<p>long side of the <i>space</i> adjoining or overlapping an <i>accessible parking space</i> or <i>pull-up space</i> for recreational vehicles</p> <p>Locate the <i>space</i> so that the hook-ups are at the rear center of the <i>space</i></p> <p>Bollards or other barriers shall not obstruct the clear ground space in front of the hook-ups</p>
Outdoor rinsing showers	<p>60 inches (1525 mm) by 60 inches (1525 mm) centered on the shower heads</p> <p>Locate the <i>space</i> so that the shower pedestal or wall with the shower head are at the rear end of the <i>space</i></p>
Benches	<p>36 inches (915 mm) by 48 inches (1220 mm) positioned near the bench with one side of the <i>space</i> adjoining an outdoor recreation access route or <i>trail</i>, as applicable</p> <p>The clear ground <i>space</i> shall not overlap the outdoor recreation access route or <i>trail</i>, or another clear ground <i>space</i></p>
Telescopes and periscopes	<p>36 inches (915 mm) by 48 inches (1220 mm) positioned for forward approach to the telescope or periscope</p> <p>Provide knee and toe clearance complying with 306 under the telescope or periscope</p> <p>Locate the <i>space</i> so that the eyepiece is centered on the <i>space</i></p>

Advisory 1011.2.1 Size and Location. *The usable sides of picnic tables, fire rings, grills, fireplaces, and woodstoves are the sides of the outdoor constructed feature that can be used for eating or serving food, building a fire, or cooking. All sides of picnic tables are generally usable, unless the picnic table is placed against a rock or tree that renders the side against the rock or tree not usable. All sides of fire rings and grills are generally usable, unless there is a wall or other structure on a side that renders the side not usable. The front sides of fireplaces and woodstoves are generally the usable side.*

1011.2.2 Surface. The surface of the clear ground *space* shall be firm and stable.

Advisory 1011.2.2 Surface. *A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.*

1011.2.3 Slope. The slope of the clear ground *space* surface shall not be steeper than 1:48 in any direction.

EXCEPTION: When the surface is other than asphalt, concrete, or boards, slopes not steeper than 1:33 shall be permitted where necessary for drainage.

1011.2.4 Openings. Openings in the clear ground *space* surface shall comply with 302.3.

1011.3 Operable Parts. *Operable parts* shall comply with 309.3 and 309.4.

EXCEPTIONS: 1. Fire rings, grills, fireplaces, wood stoves, water hydrants, and water utility hookups shall not be required to comply with 309.4.

2. Trash and recycling receptacles with hinged lids and controls to keep out large animals shall not be required to comply with 309.4.

3. Dumpster type trash and recycling receptacles shall not be required to comply with 309.3 and 309.4.

4. Sewage hatches shall not be required to comply with 309.3 and 309.4.

1011.4 Picnic Tables. Picnic tables shall provide at least one *wheelchair space* for each 24 linear feet (7320 mm) of usable table surface perimeter. *Wheelchair spaces* shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum. *Wheelchair spaces* shall be positioned for a forward approach to the table and provide knee and toe clearance complying with 306 under the table.

1011.5 Fire Rings, Grills, Fireplaces, and Wood Stoves. Fire rings, grills, fireplaces, and wood stoves shall comply with 1011.5.

Advisory 1011.5 Fire Rings, Grills, Fireplaces, and Wood Stoves. *Fire rings with double walls or insulation on the sides are recommended to prevent burns.*

1011.5.1 Fire Building Surfaces. Fire building surfaces shall be 9 inches (230 mm) minimum above the ground surface.

1011.5.2 Cooking Surfaces. Where provided, cooking surfaces shall be 15 inches (380 mm) minimum and 34 inches (865 mm) maximum above the ground surface.

1011.5.3 Raised Edges or Walls. Where fire rings, grills, or fireplaces are constructed with raised edges or walls, the depth of the raised edge or wall shall be 10 inches (255 mm) maximum.

1011.6 Water Spouts. Water spouts at water hydrants and water utility hook-ups shall be 28 inches (710 mm) minimum and 36 inches (915 mm) maximum above the ground surface.

1011.7 Outdoor Rinsing Showers. Outdoor rinsing showers shall provide at least two fixed shower heads. One fixed shower head shall be 48 inches (1220 mm) minimum and 54 inches (1370 mm) maximum above the ground surface, and one fixed shower head shall be 72 inches (1830 mm) minimum above the ground surface.

EXCEPTION: A hand-held shower spray unit complying with 608.6 shall be permitted instead of the fixed shower head 48 inches (1220 mm) minimum and 54 inches (1370 mm) maximum above the ground surface.

1011.8 Telescopes and Periscopes. Eyepieces on telescopes and periscopes shall be 43 inches (1090 mm) minimum and 51 inches (1295 mm) maximum above the ground surface.

1012 Parking Spaces within Accessible Camping Units and Picnic Units and Pull-Up Spaces at Recreational Vehicle Dump Stations

1012.1 General. Parking *spaces* within *accessible camping units* and *picnic units* and pull-up *spaces* at recreational vehicle dump stations shall comply with 1012.

1012.2 Recreational Vehicles. Parking *spaces* and pull-up *spaces* for recreational vehicles shall be 20 feet (6100 mm) wide minimum.

EXCEPTION: Where two adjacent parking *spaces* are provided for *recreational vehicles*, one parking *space* shall be permitted to be 16 feet (4880 mm) wide minimum.

1012.3 Other Vehicles. Parking *spaces* for vehicles, other than recreational vehicles, shall be 16 feet (4880 mm) wide minimum.

EXCEPTION: Where two adjacent parking *spaces* are provided for vehicles, other than recreational vehicles, one parking *space* shall be permitted to be 8 feet (2440 mm) wide minimum.

1012.4 Surface. The surface of parking *spaces* and pull-up *spaces* shall be firm and stable.

Advisory 1012.4 Surface. A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.

1012.5 Slope. The slope of the surface of parking *spaces* and pull-up *spaces* shall not be steeper than 1:48 in any direction.

EXCEPTION: When the surface is other than asphalt, concrete, or boards, slopes not steeper than 1:33 shall be permitted where necessary for drainage.

1013 Tent Pads and Tent Platforms

1013.1 General. Tent pads and tent platforms shall comply with 1013.

Advisory 1013.1 General. Tent pads and tent platforms are defined spaces with prepared surfaces for setting up and securing tents.

1013.2 Clear Ground Space. Clear ground *space* complying with 1013.2 shall be provided on all usable sides of tent pads and tent platforms.

EXCEPTION: Where a condition in 1019 does not permit full compliance, the clear ground space shall comply with 1013.2 to the maximum extent feasible.

1013.2.1 Size. The clear ground *space* shall be 48 inches (1220 mm) wide minimum.

1013.2.2 Surface. The surface of the clear ground *space* shall be firm and stable. The surface shall allow use of tent stakes and other tent securement devices.

Advisory 1013.2.2 Surface. A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.

1013.3 Slope. The slope of the surface of tent pads, tent platforms, and clear ground *spaces* shall not be steeper than 1:48 in any direction.

EXCEPTION: When the surface is other than asphalt, concrete, or boards, slopes not steeper than 1:33 shall be permitted where necessary for drainage.

1013.4 Height. Tent platforms shall be 19 inches (485 mm) high maximum measured from the clear ground *space* to the tent platform surface.

1014 Camp Shelters

1014.1 General. Camp shelters shall comply with 1014.

EXCEPTIONS: 1. Camp shelters shall not be required to comply with 307.

2. Where a condition in 1019 does not permit full compliance with a specific requirement in 1014, the camp shelter shall comply with the specific requirement to the maximum extent feasible.

Advisory 1014.1 General. Camp shelters are typically small structures that are enclosed on three sides and have a roof or overhang.

1014.2 Clear Ground Space. A clear ground *space* shall be provided at the *entrance* to the camp shelter. The clear ground *space* shall be 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum, and shall be positioned for a parallel approach to the camp shelter. One full unobstructed side of the clear ground *space* shall adjoin or overlap an outdoor recreation access route or *trail*, as applicable, or another clear ground *space*.

1014.3 Surface. The surface of the clear ground *space* at the *entrance* to the camp shelter and the surface of the floor *space* within camp shelters shall be firm and stable.

Advisory 1014.2 Surface. A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.

1014.4 Slope. The slope of the surface of the clear ground *space* at the *entrance* to the camp shelter and the surface of the floor *space* within camp shelters shall not be steeper than 1:48 in any direction.

EXCEPTION: When the surface is other than asphalt, concrete, or boards, slopes not steeper than 1:33 shall be permitted where necessary for drainage.

1014.5 Floor Height. Where the floor at the *entrance* to the camp shelter is elevated above the ground surface, the floor shall be 19 inches (485 mm) high maximum measured from the clear ground *space* to the floor surface.

1014.6 Turning Space. Where level entry or ramped entry is provided, a turning *space* complying with 304.3 shall be provided within camp shelters.

1015 Viewing Areas

1015.1 General. *Viewing areas* shall comply with 1015.

EXCEPTION: In *alterations*, where a condition in 1019 does not permit full compliance with a specific requirement in 1015, the *viewing area* shall comply with the specific requirement to the maximum extent feasible.

1015.2 Clear Ground Space. A clear ground *space* shall be provided at each distinct viewing location. The clear ground space shall be 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum, and shall be positioned for either forward or parallel approach to the viewing location. One full unobstructed side of the clear ground *space* shall adjoin or overlap an outdoor recreation access route or *trail*, as applicable, or another clear ground *space*.

1015.3 Unobstructed View. An unobstructed view shall be provided between 32 inches (815 mm) and 51 inches (1295 mm) above the clear ground *space* at each distinct viewing location that extends the entire side of the clear ground *space* facing the landscape or point of interest.

EXCEPTION: Where guardrails or other safety barriers are provided to protect visitors from drop-offs, the guardrails or other safety barriers shall be permitted to obstruct the view.

Advisory 1016.3 Unobstructed View. *See-thru panels or screened openings can be installed to create an unobstructed view above 32 inches (815mm) where guardrails or other safety barriers are provided to protect visitors from drop-offs.*

1015.4 Turning Space. A turning *space* complying with 304.3 shall be provided within viewing areas.

1015.5 Surface. The surface of clear ground *spaces* and turning *spaces* shall be firm and stable.

Advisory 1015.5 Surface. *A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.*

1015.6 Slope. The slope of the clear ground *space* and turning *space* surface shall not be steeper than 1:48 in any direction.

EXCEPTION: When the surface is other than asphalt, concrete, or boards, slopes not steeper than 1:33 shall be permitted where necessary for drainage.

1016 Outdoor Recreation Access Routes

1016.1 General. Outdoor recreation access routes shall comply with 1016.

EXCEPTIONS: 1. In *alterations* to existing *camping facilities, picnic facilities, and trailheads* where a condition in 1019 does not permit full compliance with a specific requirement in 1016 on a portion of an outdoor recreation access route, that portion of the outdoor recreation access route shall comply with the specific requirement to the maximum extent feasible.

2. At *viewing areas*, where a condition in 1019 does not permit full compliance on a portion of an outdoor recreation access route with a specific requirement in 1016, that portion of the outdoor recreation access route shall comply with the specific requirement to the maximum extent feasible.

3. Where outdoor recreation access routes are provided within *vehicular ways*, outdoor recreation access routes shall not be required to comply with 1016.4, 1016.7, and 1016.8.

1016. 2 Surface. The surface of outdoor recreation access routes and their related passing *spaces* and resting intervals shall be firm and stable.

Advisory 1016.2 Surface. *A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.*

1016.3 Clear Width. The clear width of outdoor recreation access routes shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

1016.4 Passing Spaces. Outdoor recreation access routes with a clear width less than 60 inches (1525 mm) shall provide passing *spaces* complying with 1016.4 at intervals of 200 feet (61 m) maximum. Passing *spaces* and resting intervals shall be permitted to overlap.

Advisory 1016.4 Passing Spaces. *Entities should consider providing either a 60 inches (1525 mm) minimum clear width on outdoor recreation access routes, or passing spaces at shorter intervals if the clear width is less than 60 inches (1525 mm), where an outdoor recreation access route is:*

- *Heavily used;*
- *Adjoins outdoor constructed features that are heavily used;*
- *A boardwalk; or*
- *Not at the same level as the ground surface adjoining the outdoor recreation access route.*

1016.4.1 Size. The passing *space* shall be either:

1. A *space* 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or
2. The intersection of two outdoor recreation access routes providing a T-shaped *space* complying with 304.3.2 where the base and the arms of the T-shaped *space* extend 48 inches (1220 mm) minimum beyond the intersection. Vertical alignment at the intersection of the outdoor recreation access routes that form the T-shaped *space* shall be nominally planar.

1016.5 Obstacles. Obstacles on outdoor recreation access routes and their related passing *spaces* and resting intervals shall comply with 1016.5.

1016.5.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, obstacles shall not exceed ½ inch (13 mm) in height measured vertically to the highest point.

1016.5.2 Other Surfaces. Where the surface is other than specified in 1016.5.1, obstacles shall not exceed 1 inch (25 mm) in height measured vertically to the highest point.

Advisory 1016.5 Obstacles. The vertical alignment of joints in concrete, asphalt, or board surfaces can be obstacles. Natural features such as tree roots and rocks on outdoor recreation access routes can also be obstacles. Where an outdoor recreation access route is provided within a vehicular way, traffic calming devices can be obstacles. Where possible, obstacles on outdoor recreation access routes should be separated by a distance of 48 inches (1220 mm) minimum so persons who use wheelchairs can maneuver around the obstacles.

1016.6 Openings. Openings in the surface of outdoor recreation access routes and their related passing *spaces* and resting intervals shall comply with 302.3.

Advisory 1016.6 Openings. Spaces between the boards in a boardwalk and drainage grates are examples of openings. Where possible, drainage grates should be located outside the minimum clear width of the outdoor recreation access route.

1016.7 Slopes. The slopes of outdoor recreation access routes shall comply with 1016.7.

1016.7.1 Running Slope. The *running slope* of any segment of an outdoor recreation access route shall not be steeper than 1:10. Where the *running slope* of a segment of an outdoor recreation access route is steeper than 1:20, the maximum length of the segment shall be in accordance with Table 1016.7.1, and a resting interval complying with 1016.8 shall be provided at each end of the segment.

Table 1016.7.1 Running Slope and Resting Intervals

Running Slope of Segment of Outdoor Recreation Access Route		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20	1:12	50 feet (15 m)

1:12	1:10	30 feet (9 m)
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Advisory 1016.7.1 Running Slope. *Running slope can also be expressed as a percentage (grade).*

1016.7.2 Cross Slope. The *cross slope* shall comply with 1016.7.2.

1016.7.2.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, the *cross slope* shall not be steeper than 1:48.

1016.7.2.2 Other Surfaces. Where the surface is other than specified in 1016.7.2.1, the *cross slope* on other surfaces shall not be steeper than 1:33.

1016.8 Resting Intervals. Resting intervals shall comply with 1016.8.

1016.8.1 Length. The resting interval length shall be 60 inches (1525 mm) long minimum.

1016.8.2 Width. Where resting intervals are provided within an outdoor recreation access route, resting intervals shall be at least as wide as the widest segment of the outdoor recreation access route leading to the resting interval. Where resting intervals are provided adjacent to an outdoor recreation access route, the resting interval clear width shall be 36 inches (915 mm) minimum.

1016.8.3 Slope. Resting intervals shall have a slope complying with 1016.8.3.

1016.8.3.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, the slope shall not be steeper than 1:48 in any direction.

1016.8.3.2 Other Surfaces. Where the surface is other than specified in 1016.8.3.1, the slope on other surfaces shall not be steeper than 1:33 in any direction.

1016.8.4 Turning Space. Where resting intervals are provided adjacent to an outdoor recreation access route, a turning *space* complying with 304.3.2 shall be provided. Vertical alignment between the outdoor recreation access route, turning *space*, and resting interval shall be nominally planar.

1016.9 Protruding Objects. Constructed *elements* on outdoor recreation access routes and their related resting intervals and passing *spaces* shall comply with 307.

Advisory 1016.9 Protruding Objects. *Protruding objects on outdoor recreation access routes and their related resting intervals and passing spaces can be hazardous for persons who are blind or have low vision. Signs and other post mounted objects are examples of constructed elements that can be protruding objects.*

1017 Trails

1017.1 General. *Trails* shall comply with 1017.

EXCEPTIONS: 1. Where an entity determines that a condition in 1019 does not permit full compliance with a specific requirement in 1017 on a portion of a trail, that portion of the *trail* shall comply with the specific requirement to the maximum extent feasible. The entity shall document the basis for the determination, and shall maintain the documentation with the records for the construction or *alteration* project.

2. Where an entity determines that it is impracticable for an entire *trail* to comply with 1017, the *trail* shall not be required to comply with 1017. The entity shall document the basis for the determination, and shall maintain the documentation with the records for the construction or *alteration* project.

Advisory 1017.1 General Exception 1. *Exception 1 can be applied to specific requirements in 1017 on a portion of a trail where full compliance with the requirement cannot be achieved due to any of the conditions in 1019.*

Advisory 1017.1 General Exception 2. *An entity should first apply Exception 1 to determine the portions of a trail where full compliance with the specific requirements in 1017 cannot be achieved. An entity should then evaluate the entire trail, taking into account the portions of the trail that can and cannot fully comply with the requirements in 1017 and the extent of compliance where full compliance cannot be achieved to determine whether it would be impracticable for the entire trail to comply with 1017. The determination is made on a case-by-case basis.*

1017.2 Surface. The surface of *trails* and their related passing *spaces* and resting intervals shall be firm and stable.

Advisory 1017.2 Surface. *A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.*

1017.3 Clear Tread Width. The clear tread width of *trails* shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear tread width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

1017.4 Passing Spaces. *Trails* with a clear tread width less than 60 inches (1525 mm) shall provide passing *spaces* complying with 1017.4 at intervals of 1000 feet (300 m) maximum. Where the full length of the *trail* does not comply with 1017, the last passing *space* shall be located at the end of the *trail* segment complying with 1017. Passing *spaces* and resting intervals shall be permitted to overlap.

Advisory 1017.4 Passing Spaces. Entities should consider providing either a 60 inches (1525 mm) minimum clear tread width, or passing spaces at shorter intervals if the clear tread width is less than 60 inches (1525 mm), where a trail is:

- Heavily used;
- A boardwalk; or
- Not at the same level as the ground surface adjoining the trail.

Where the full length of the trail does not comply with 1017, placing the last passing space at the end of the trail segment complying with 1017 enables a person using a wheelchair to turn around and exit the trail.

1017.4.1 Size. The passing space shall be either:

1. A space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or
2. The intersection of two trails providing a T-shaped space complying with 304.3.2 where the base and the arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection. Vertical alignment at the intersection of the trails that form the T-shaped space shall be nominally planar.

1017.5 Obstacles. Tread obstacles on trails and their related passing spaces and resting intervals shall comply with 1017.5.

1017.5.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, tread obstacles shall not exceed ½ inch (13 mm) in height measured vertically to the highest point.

1017.5.2 Other Surfaces. Where the surface is other than specified in 1017.4.1, tread obstacles shall not exceed 2 inches (50 mm) in height measured vertically to the highest point.

Advisory 1017.5 Tread Obstacles. The vertical alignment of joints in concrete, asphalt, or board surfaces can be tread obstacles. Natural features, such as tree roots and rocks, within the trail tread can also be tread obstacles. Where possible, tread obstacles should be separated by a distance of 48 inches (1220 mm) minimum so persons who use wheelchairs can maneuver around the obstacles.

1017.6 Openings. Openings in the surface of trails and their related passing spaces and resting intervals shall comply with 302.3.

EXCEPTION: Openings shall be permitted to be to be a size that does not permit passage of a ¾ inch (19 mm) sphere where openings that do not permit the passage of a ½ inch (6.4 mm) sphere cannot be provided due to the conditions in 1019.

1017.7 Slopes. The slopes of trails shall comply with 1017.7.

1017.7.1 Running Slope. No more than 30 percent of the total length of a trail shall have a running slope steeper than 1:12. The running slope of any segment of a trail shall not be steeper than 1:8. Where the running slope of a segment of a trail is steeper than

1:20, the maximum length of the segment shall be in accordance with Table 1017.7.1, and a resting interval complying with 1017.8 shall be provided at each end of the segment.

Table 1017.7.1 Running Slope and Resting Intervals

Running Slope of Trail Segment		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20	1:12	200 feet (61 m)
1:12	1:10	30 feet (9 m)
1:10	1:8	10 feet (3050 mm)

Advisory 1017.7.1 Running Slope. Running slope can also be expressed as a percentage (grade).

1017.7.2 Cross Slope. The *cross slope* shall comply with 1017.6.2.

1017.7.2.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, the *cross slope* shall not be steeper than 1:48.

1017.7.2.2 Other Surfaces. Where the surface is other than specified in 1017.7.2.1, the *cross slope* on other surfaces shall not be steeper than 1:20.

1017.8 Resting Intervals. Resting intervals shall comply with 1017.8.

1017.8.1 Length. The resting interval length shall be 60 inches (1525 mm) long minimum.

1017.8.2 Width. Where resting intervals are provided within the *trail* tread, resting intervals shall be at least as wide as the widest segment of the *trail* tread leading to the resting interval. Where resting intervals are provided adjacent to the *trail* tread, the resting interval clear width shall be 36 inches (915 mm) minimum.

1017.8.3 Slope. Resting intervals shall have a slope complying with 1017.8.3.

1017.8.3.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, the slope shall not be steeper than 1:48 in any direction.

1017.8.3.2 Other Surfaces. Where the surface is other than specified in 1017.8.3.1, the slope on other surfaces shall not be steeper than 1:20 in any direction.

1017.8.4 Turning Space. Where resting intervals are provided adjacent to the *trail* tread, a turning *space* complying with 304.3.2 shall be provided. Vertical alignment between the *trail* tread, turning *space*, and resting interval shall be nominally planar.

1017.9 Protruding Objects. Constructed *elements* on *trails* and their related resting intervals and passing *spaces* shall comply with 307.

Advisory 1017.9 Protruding Objects. *Protruding objects on trails and their related resting intervals and passing spaces can be hazardous for persons who are blind or have low vision. Signs and other post mounted objects are examples of constructed elements that can be protruding objects.*

1017.10 Gates and Barriers. Where gates or barriers are constructed to control access to *trails*, gates and barriers shall comply with 1017.10.

1017.10.1 Clear Width. Gate openings and openings in barriers for hiker passage shall provide a clear width complying with 404.2.3.

1017.10.2 Gate Hardware. Gate hardware shall comply with 404.2.7.

1017.11 Trail Signs. *Trail* signs shall include the following information:

1. Length of the *trail* or *trail* segment;
2. Surface type;
3. Typical and minimum tread width;
4. Typical and maximum *running slope*; and
5. Typical and maximum *cross slope*.

1018 Beach Access Routes

1018.1 General. Beach access routes shall comply with 1018.

EXCEPTIONS: 1. Where an entity determines that a condition in 1019 does not permit full compliance with a specific requirement in 1018 on a portion of a beach access route, that portion of the beach access route shall comply with the specific requirement to the maximum extent feasible. The entity shall document the basis for the determination, and shall maintain the documentation with the records for the construction or *alteration* project.

2. Where an entity determines that it is impracticable to provide a beach access route complying with 1018, a beach access route shall not be required. The entity shall document the basis for the determination, and shall maintain the documentation with the records for the construction or *alteration* project.

3. Removable beach access routes shall not be required to comply with 1018.7 and 1018.8.

Advisory 1018.1 General Exception 1. *Exception 1 can be applied to specific requirements in 1018 on a portion of a beach access route where full compliance with the requirement cannot be achieved due to any of the conditions in 1019.*

Advisory 1018.1 General Exception 2. *An entity should first apply Exception 1 to determine the portions of a beach access route where full compliance with the specific requirements in 1018 cannot be achieved. An entity should then evaluate the entire beach access route, taking into*

account the portions of the beach access route that can and cannot fully comply with the requirements in 1018 and the extent of compliance where full compliance cannot be achieved to determine whether it would be impracticable to provide a beach access route. The determination is made on a case-by-case basis.

1018.2 Connections. Beach access routes shall connect an entry point to the beach to the:

1. High tide level at tidal beaches;
2. Mean high water level at river beaches; or
3. Normal recreation water level at lake, pond, and reservoir beaches.

1018.3 Surface. The surface of beach access routes and their related resting intervals shall be firm and stable.

***Advisory 1018.3 Surface.** A stable surface remains unchanged by applied force so that when the force is removed, the surface returns to its original condition. A firm surface resists deformation by indentations.*

1018.4 Clear Width. The clear width of beach access routes shall be 60 inches (1525 mm) minimum.

1018.5 Obstacles. Obstacles on beach access routes and their related resting intervals shall comply with 1018.5.

1018.5.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, obstacles shall not exceed ½ inch (13 mm) in height measured vertically to the highest point.

1018.5.2 Other Surfaces. Where the surface is other than specified in 1018.5.1, obstacles shall not exceed 1 inch (25 mm) in height measured vertically to the highest point.

***Advisory 1018.5 Obstacles.** The vertical alignment of boards on a beach access route or removable sections of a beach access route can be obstacles. Where possible, obstacles on beach access routes should be separated by a distance of 48 inches (1220 mm) minimum so persons who use wheelchairs can maneuver around the obstacles.*

1018.6 Openings. Openings in the surface of beach access routes and their related resting intervals shall comply with 302.3.

1018.7 Slopes. The slopes of beach access routes shall comply with 1018.7.

1018.7.1 Running Slope. The *running slope* of any segment of a beach access route shall not be steeper than 1:10. Where the *running slope* of a segment of a beach access route is steeper than 1:20, the maximum length of the segment shall be in accordance with Table 1018.7.1, and a resting interval complying with 1018.8 shall be provided at each end of the segment.

Table 1018.7.1 Running Slope and Resting Intervals

Running Slope of Segment of Beach Access Route		Maximum Length of Segment
Steeper than	But not Steeper than	
1:20	1:12	50 feet (15 m)
1:12	1:10	30 feet (9 m)

Advisory 1018.7.1 Running Slope. Running slope can also be expressed as a percentage (grade).

1018.7.2 Cross Slope. The *cross slope* shall comply with 1018.7.2.

1018.7.2.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, the *cross slope* shall not be steeper than 1:48.

1018.7.2.2 Other Surfaces. Where the surface is other than specified in 1018.7.2.1, the *cross slope* on other surfaces shall not be steeper than 1:33.

1018.8 Resting Intervals. Resting intervals shall comply with 1018.8.

1018.8.1 Size. Resting intervals shall be 60 inches (1525 mm) by 60 inches (1525 mm) minimum.

1018.8.2 Slope. Resting intervals shall have a slope complying with 1018.8.2.

1018.8.2.1 Concrete, Asphalt, or Boards. Where the surface is concrete, asphalt, or boards, the slope shall not be steeper than 1:48 in any direction.

1018.8.2.2 Other Surfaces. Where the surface is other than specified in 1018.8.2.1, the slope on other surfaces shall not be steeper than 1:33 in any direction.

1018.9 Protruding Objects. Constructed *elements* on beach access routes and their related resting intervals shall comply with 307.

Advisory 1018.9 Protruding Objects. Protruding objects on beach access routes and their related resting intervals can be hazardous for persons who are blind or have low vision. Signs and other post mounted objects are examples of constructed elements that can be protruding objects.

1018.10 Elevated Dune Crossings. Where elevated dune crossings are part of beach access routes, handrails complying with 505 and edge protection complying with 405.9 shall be provided on the elevated dune crossings.

EXCEPTIONS: 1. The clear width of elevated dune crossings shall be permitted to be reduced to 48 inches (1220 mm) minimum.

2. Elevated dune crossings shall not be required to comply with 1018.8.

1019 Conditions for Exceptions

1019.1 General. The conditions in 1019 are the basis for using the exceptions to the requirements in Chapter 10 for outdoor constructed features, tent pads and tent platforms, camp shelters, viewing areas, outdoor recreation access routes, trails, and beach access routes.

Advisory 1019.1 General. *The following exceptions in Chapter 10 permit a facility to comply with a specific requirement to the maximum extent feasible where a condition in 1019 applies:*

- *Outdoor Constructed Features – 1011.2 Exception (clear ground space in alterations);*
- *Tent Pads and Tent Platforms – 1013.2 Exception (clear ground space);*
- *Camp Shelters – 1014.1 Exception (clear ground space);*
- *Viewing Areas – 1015.1 Exception (any requirement in alterations);*
- *Outdoor Recreation Access Routes – 1016.1 Exception 1 (any requirement in alterations to existing camping facilities, picnic facilities, and trailheads) and 1016.1 Exception 2 (any requirement at viewing areas);*
- *Trails – 1017.1 Exception 1 (any requirement); and*
- *Beach Access Routes – 1018.1 Exception 1 (any requirement).*

On outdoor recreation access routes, trails, and beach access routes, the above exceptions apply only on the portion of the route where the condition applies. The outdoor recreation access route, trail, or beach access route is required to fully comply with the requirements in Chapter 10 at all other portions of the route where the conditions do not apply.

There are additional exceptions that apply to an entire trail or beach access route in 1017.1 and 1018.1.

1019.2 Conditions.

1. Compliance is not feasible due to terrain.
2. Compliance cannot be accomplished with the prevailing construction practices.
3. Compliance would fundamentally alter the function or purpose of the facility or the setting.
4. Compliance is precluded by the:
 - Endangered Species Act (16 U.S.C. §§ 1531 et seq.);
 - National Environmental Policy Act (42 U.S.C. §§ 4321 et seq.);
 - National Historic Preservation Act (16 U.S.C. §§ 470 et seq.);
 - Wilderness Act (16 U.S.C. §§ 1131 et seq.); or
 - Other Federal, State, or local law the purpose of which is to preserve threatened or endangered species; the environment; or archaeological, cultural, historical, or other significant natural features.

Advisory 1019.2 Conditions. *Entities should consider all design options before determining whether the conditions in 1019.2 apply. The laws referenced in Condition 4 can limit construction in the outdoor environment. Condition 4 also applies where archaeological,*

cultural, historical, or other significant natural features are eligible for protection under Federal, State, or local law.