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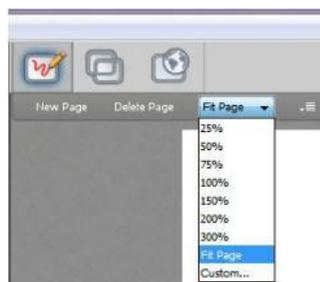


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Accessible Parking and Passenger Loading Zones – Advanced



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Presenters



Melissa Anderson



Bill Botten

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Session Agenda

- **Accessible Parking - ADA and ABA**
- **Accessible Passenger Loading Zones - ADA and ABA**
- **Accessible On-street Parking - proposed PROWAG**
- **Accessible On-street Passenger Loading Zones - proposed PROWAG**
- **Questions?**

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Accessible Parking Scoping §208 & F208

14

New Construction

Access Required

- **Parking is not required to be provided**
- **Where parking is provided, it must include accessible parking spaces**
- **Excludes commercial vehicle storage, law enforcement vehicles, or vehicle impound parking ***

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Accessible Parking Scoping

- **Where visitor, patron, or employee parking is provided**
- **Calculated on a facility by facility basis ***
- **A facility can be a single space, a parking lot, a parking floor within a building, or a stand alone parking structure**

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Accessible Parking Scoping

Location of Parking Space

- On shortest accessible route to accessible entrance
- On shortest accessible route to entrance to parking facility
- Dispersed to multiple accessible entrances

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Accessible Parking Scoping

208.2 Parking Spaces	
Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

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Accessible Parking Scoping

Related “Medical” Facilities



- **Hospital: 10% of spaces**
- **Rehabilitation and Outpatient Physical Therapy Facilities: 20%**
- **Doctor’s Offices: use table**
- **Medical Equipment Facilities: use table**
- **Use Zoning requirements to allocate %**

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Accessible Parking Scoping

Residential Facilities *



- **Resident Parking: one space for each required accessible dwelling unit**
- **Additional Resident Parking (where parking exceeds a 1 to 1 ratio): 2% of additional parking**
- **Non-Resident Parking: use table**

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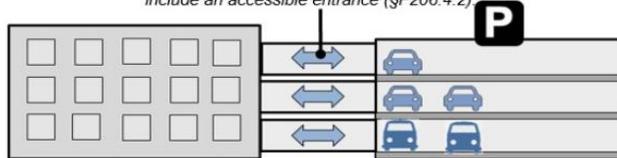
Garage Parking

The Standards apply to parking garages, including those provided below grade. At sites that also include surface lots, a garage is treated as a separate parking facility for scoping purposes.



Multi-Level Parking Garage with Direct Connections to Facility

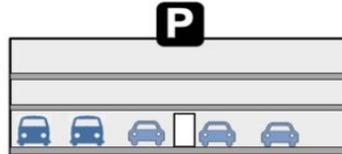
Each direct connection to a facility must include an accessible entrance (§F206.4.2)



Dispersing accessible spaces among accessible entrances requires placement of non-van accessible spaces on different levels. All van spaces can be grouped on one level (§F208.3, Ex. 1).

Multi-Level Parking Garage Not Serving a Particular Facility

In parking garages that do not serve a particular facility, accessible spaces must be located on the shortest accessible route to an accessible pedestrian entrance of the garage (§208.3).



Accessible Parking Scoping

Van Accessible Spaces

- 1 van space for every 6 accessible spaces required
- There will always be at least one van space required



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Accessible Parking Scoping

Location of Parking Space

- Exception for vans in multi-level parking structures
- Exception allows placement in a different location if “substantially greater or equivalent accessibility is provided”

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Alterations

Standards apply based on:

- Planned scope of work
- Technical feasibility
- Primary function areas/path of travel



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Alterations

“Technical Infeasibility” = Existing physical/site constraints that prohibit compliance

Example: removing parking space to create van access aisle conflicting with minimum zoning requirements

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Alterations



Where renovation is more extensive, Technical Infeasibility is less likely

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Alterations

Technical Infeasibility

- **Determined case-by-case**
- **Based on existing constraints/conditions and scope of work**
- **Compliance required to the *maximum extent feasible***



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Alterations

Example: Parking Lot

Resurfacing and restriping of lot = alteration

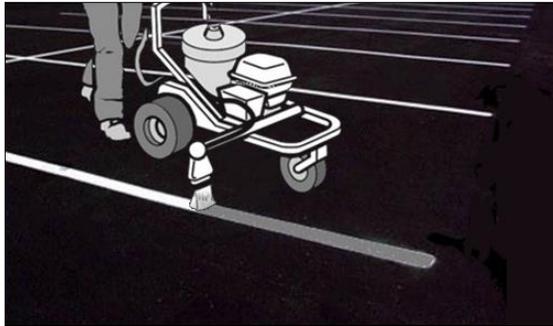


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Alterations

Example: Parking Lot

Repainting existing markings in place, filling potholes = maintenance (not an alteration)



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Parking Spaces

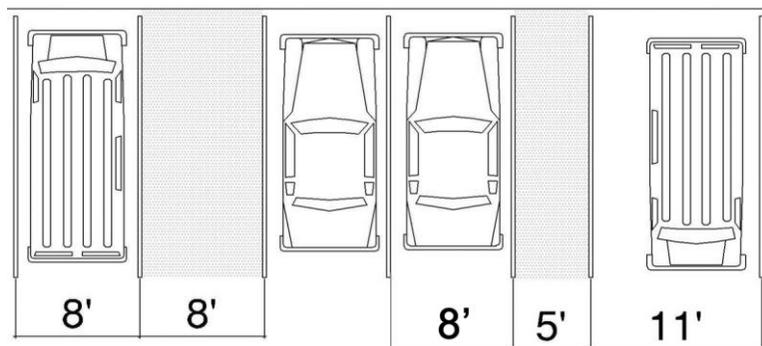
Technical Requirements

§502



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Vehicle Space



Measurement taken to Center Line of marked lines *

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Access Aisle

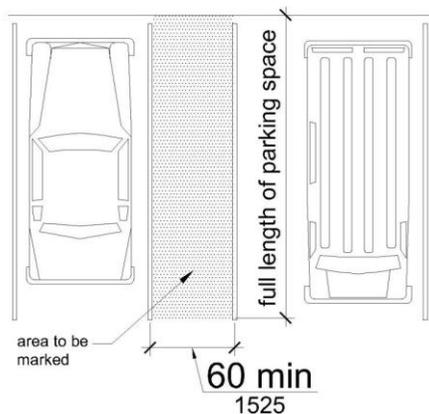
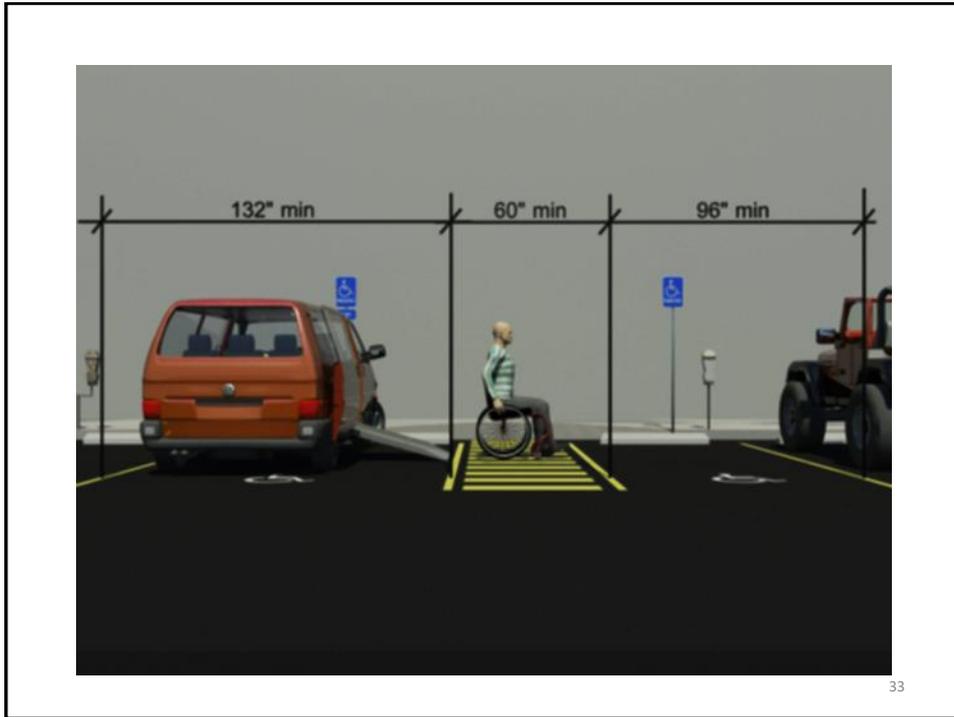


Figure 502.3
Parking Space Access Aisle

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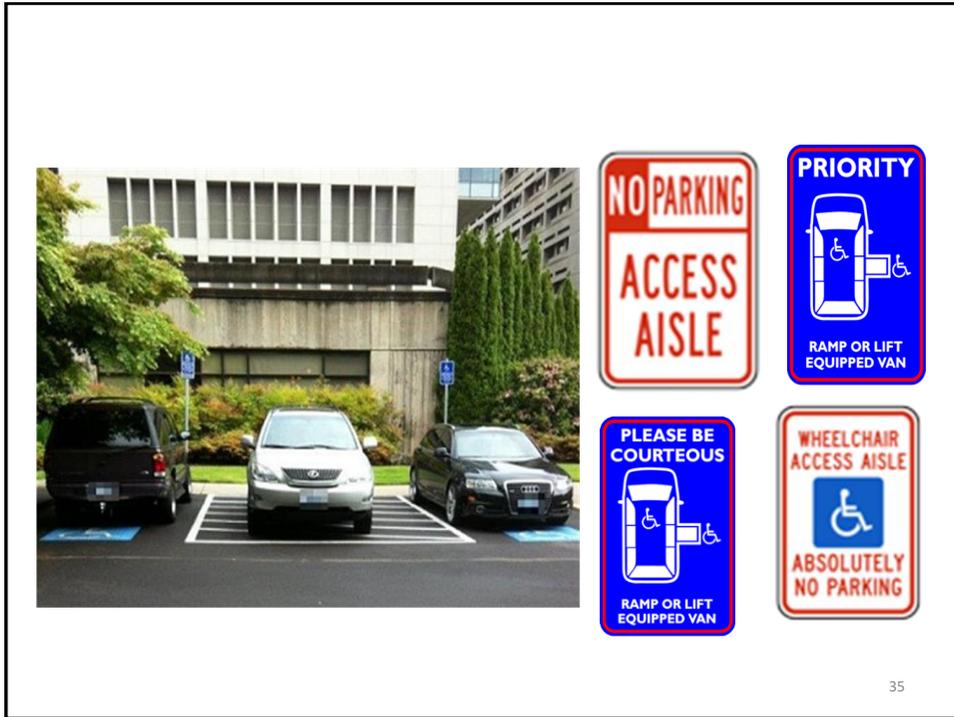
Access Aisle Markings

Guidelines Require

“marked so as to discourage parking in them” *

Specific requirements may be a function of local code for regulating parking

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Accessible Parking “Don’ts”



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Access Aisle

- Cannot overlap vehicle way
- Can be shared by two vehicle spaces
- Can be on either side of vehicle space except where angled parking is provided which requires the aisle on the passenger side of van spaces

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Van Access Aisle

Recommendation: Provide access aisle for vans on the passenger side so that drivers do not have to back into the space



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Parking Spaces

AR must connect to access aisles at accessible parking spaces



Recommendation: Connect AR to front of aisle to prevent travel behind parked cars

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Vertical Clearance for Vans



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Vehicle Overhang



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Parking Signs

§216.5 & F216.5

- Accessible parking signs are not required for lots with 4 or fewer spaces (including accessible spaces).



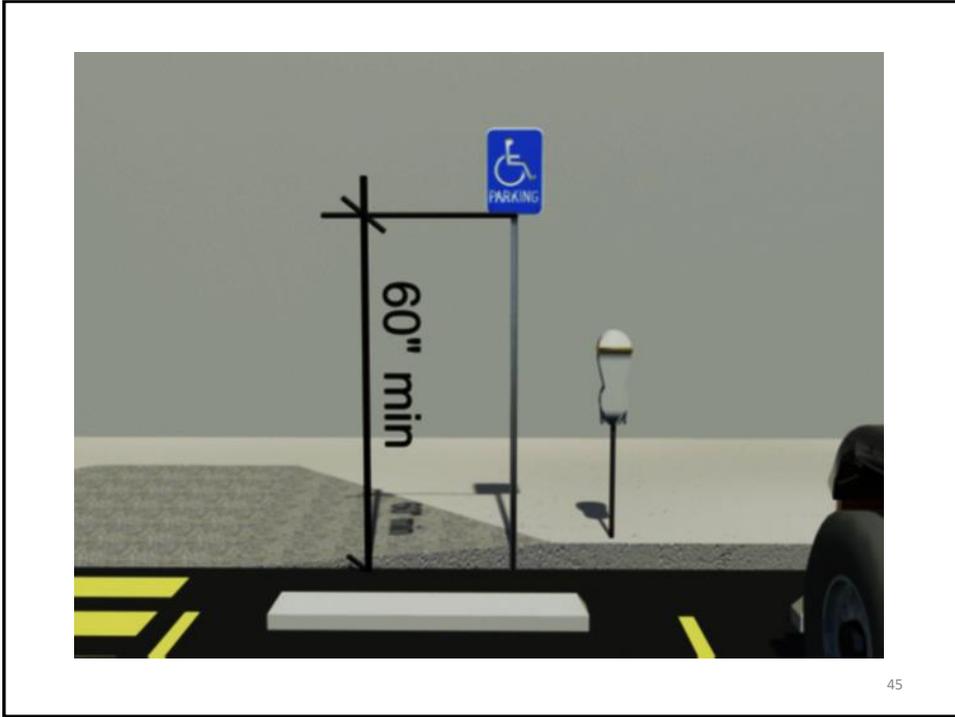
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Parking Space Signs

- International Symbol of Access required to designate and reserve accessible spaces
- 60 inches minimum to bottom of sign
- “Van Accessible” added for van spaces



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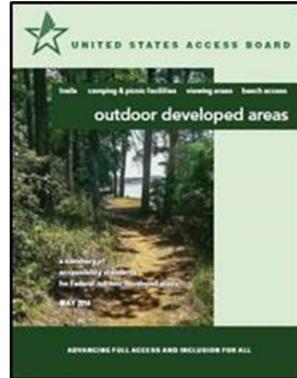
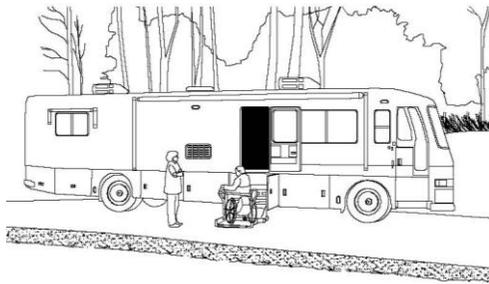


Temporary Parking



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RV and Trailer Parking



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Pay Stations



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Passenger Loading Zones

Scoping Requirements

§209 & F209



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New Construction

Accessible Passenger Loading Zone Scoping

- **At least one entrance to medical care & long term care facilities**
- **Mechanical access parking garage vehicle drop-off & pick-up areas ***

Valet Parking

Accessible spaces are required in parking facilities with valet parking because vehicles specially equipped for persons with disabilities may not be easily used by others. Further, valet parking may not be available at all hours a parking facility is open. An accessible passenger loading zone also is required at facilities with valet parking (§209.4).



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New Construction

Accessible Passenger Loading Zone **Scoping cont.**

- **For all other facility types: Where Provided**
- **Requires one accessible zone for every 100 linear feet of loading zone space ***

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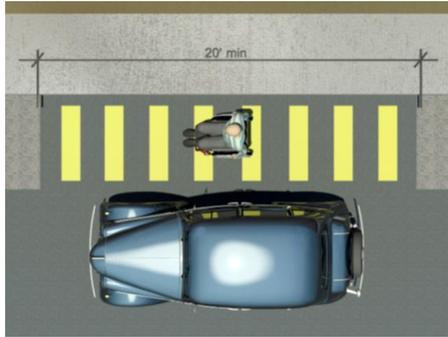
Passenger Loading Zones

Technical Requirements

§503

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Vehicle Space and Access Aisle



Ground Surfaces.

- Vehicle pull-up spaces and access aisles serving them shall be firm, stable and slip resistant.
- Access aisles shall be at the same level as the vehicle pull-up space
- Changes in level are not permitted
- EXCEPTION: Slopes not steeper than 1:48 shall be permitted

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Access Aisle

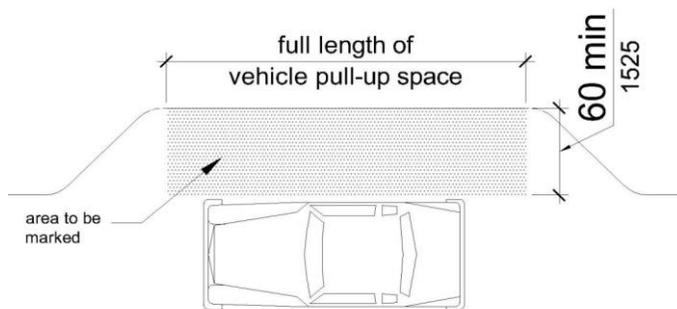
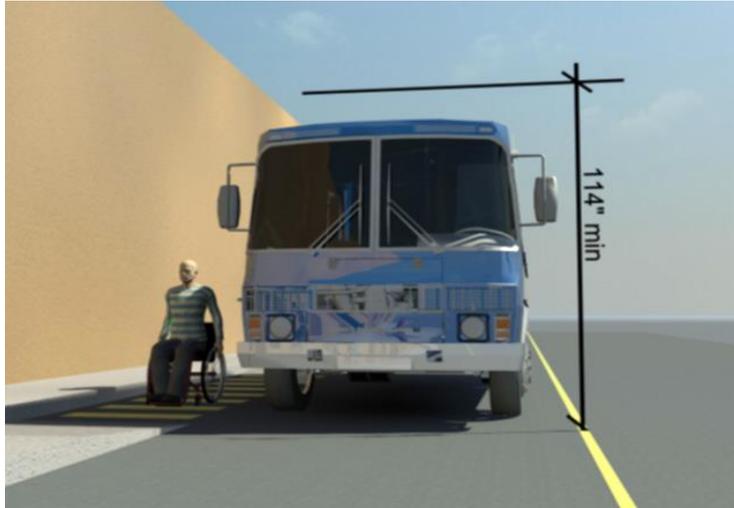


Figure 503.3
Passenger Loading Zone Access Aisle

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Vertical Clearance



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Electric Vehicle Charging Stations



- **The Standards do not include specific provisions for electric vehicle (EV) charging stations.**
- **Advisable to address access to EV charging stations so that they are usable by people with disabilities.**
- **If provided, accessible spaces at EV charging stations cannot count toward the minimum number of accessible car and van parking spaces required in a parking facility.**

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Proposed Public Right of Way Accessibility Guidelines (PROWAG)

- 2013 Supplemental Notice of Proposed Rulemaking (SNPRM) can be found under Shared Use Paths
- Status – We are completing the final package to go to the Office of Management and Budget
- It will become an enforceable Standard after we publish the Final Text in the Federal Register and it is adopted by the Department of Transportation and the Department of Justice

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Scoping for On-street Parking

Table R214 On-Street Parking Spaces

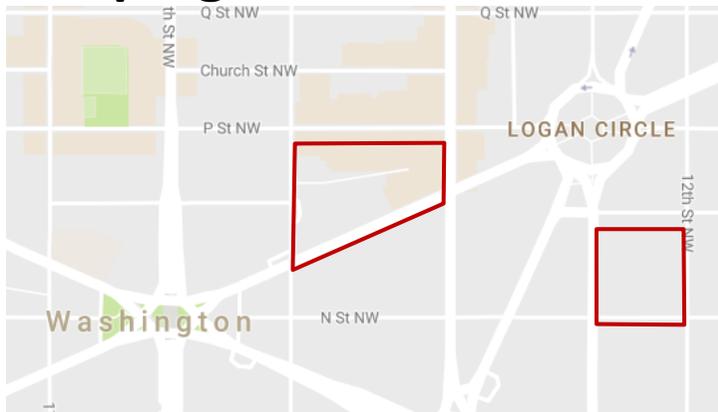
Total Marked or Metered Parking Spaces	Minimum Number of Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 and over	4% of total

No requirement for van parking

- R214 The number of accessible spaces is based on the total marked or metered spaces on a block perimeter
- Where parking pay stations are provided and the parking is not marked, each 20.0 ft. where parallel parking is permitted = one parking space

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Scoping for On-street Parking



R214 The number of accessible spaces is based on the total marked or metered spaces on a block perimeter

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On-street Parking



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Scoping for On-street Parking Signs

- **R211.4 Accessible Parking Space and Passenger Loading Zone Signs.** Accessible parking spaces and accessible passenger loading zones shall be identified by signs displaying the International Symbol of Accessibility
- **At accessible parallel parking spaces and accessible passenger loading zones, the signs shall be located at the head or foot of the parking space or passenger loading zone**
- *** The Manual on Uniform Traffic Control Devices provides sign height requirements for signs placed in the right of way - 7 ft. to the bottom of the sign**

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Technical Requirements for On-street Parking §309

- **Parallel Parking**
 - **Wide right of way**
 - **Narrow right of way**
- **Perpendicular or Angled Parking**



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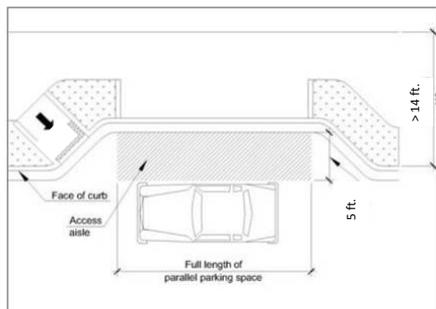
Technical Requirements §309

- **Wide Right of Way** - Where the width of the adjacent right-of-way exceeds 14 ft., an access aisle shall be provided
 - 5 ft. minimum width
 - at street level
 - the full length of the parking space
 - shall not encroach on the vehicular travel lane
 - connects to a pedestrian access route

Grade and cross slope can match street

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On-Street Parking Access Aisle



- Where the width of the adjacent sidewalk or available right-of-way exceeds 14 ft. an access aisle is required
- In alterations where the street or sidewalk adjacent to the parking spaces is not altered, an access aisle shall not be required provided the parking spaces are located at the end of the block face.

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Technical Requirements §309

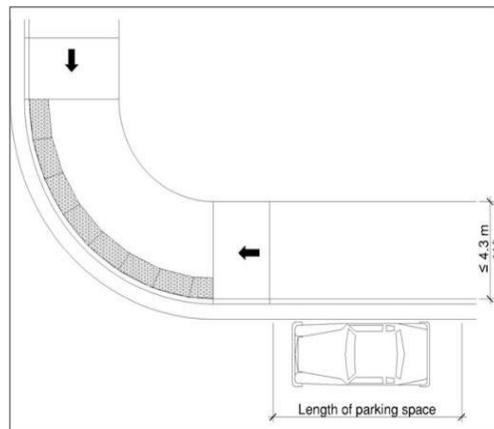
Narrow Right of Way - An access aisle is not required where the width of the available right-of-way is less than or equal to 14 ft.

- **When an access aisle is not provided, the parking spaces shall be located at the end of the block face**

***Very simple low cost way to improve access in a community**

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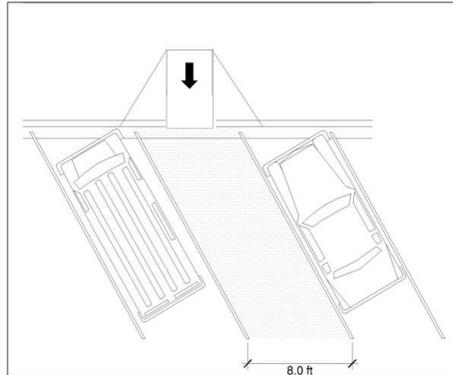
On-Street Parking



- **Narrow right of way – an access aisle is not required**

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On-Street Parking



- **Angled (or perpendicular) on-street parking**
- **Access aisle 8 ft. minimum width**
- **Marked to discourage parking**
- **May be shared**

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On-Street Parking

Parking meter displays and information

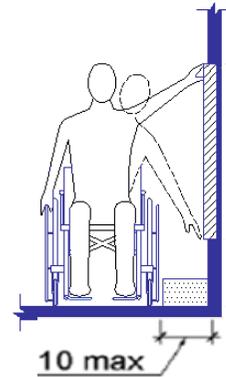


- **Information must be visible from a point 3.3 ft. max above the center of the clear space**
- **Operable parts requirements must be met**

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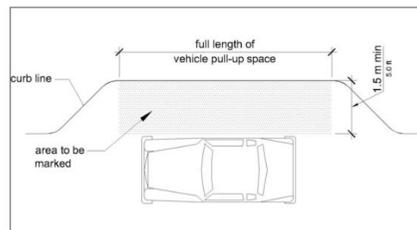
Reach Ranges

- Height above surface
48" maximum
15" minimum
- Side reach within 10"
- Forward reach – no obstruction or space



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Passenger Loading Zones



- **Width.** Vehicle pull-up space shall be 8 ft. wide min.
Access aisles shall be 5 ft. wide min.
- **Length.** Access aisles shall extend the full length of the vehicle pull-up space and a min. of 20 ft.
- **Marking.** Access aisles shall be marked so as to discourage parking in them.
- **Surfaces.** Access aisle surfaces shall comply with R302.7.

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Design Considerations

- Accessible parking spaces should be located where the street has the least crown and grade and close to key destinations.
- The sidewalk adjacent to accessible parallel parking spaces should be free of signs, street furniture, and other obstructions to permit deployment of a van side-lift or ramp or the vehicle occupant to transfer to a wheelchair or scooter.

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Design Considerations

- Accessible parallel parking spaces located at the end of the block face are usable by vans that have rear lifts and cars that have scooter platforms.



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Technical Assistance

- Publications and guides
- On-line guides
- Newsletter
- Webinar series



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