



1



4



5



6




7



8

ask if
Admin Rule 68.20
applies

Publicly Funded Facilities



9

ask if
Admin Rule 68.20
applies

Publicly Funded Facilities
State Leased Facilities



10

ask if
Admin Rule 68.20
applies

Publicly Funded Facilities
State Leased Facilities
Public Accommodations



11

68.20(c): Public Accommodations

1. place of lodging
2. restaurant/bar
3. place of exhibition/entertainment
4. place of public gathering
5. sales or rental establishment
6. service establishment
7. terminal, depot, station
8. place of recreation
9. place of public display or collection
10. place of education
11. social service establishment
12. place of exercise or recreation

13

ask if Admin Rule 68.20 applies

- Publicly Funded Facilities
- State Leased Facilities
- Public Accommodations
- Commercial Facilities



14

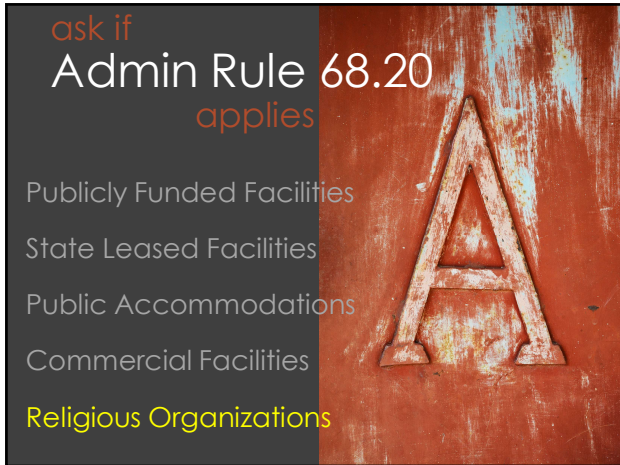
68.20(d): Commercial Facilities

- Non-residential use
- Operations affect commerce

- Office building
- Factory
- Warehouse



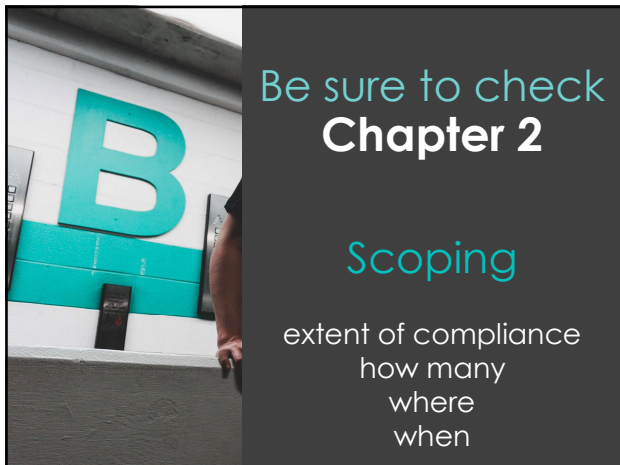
16



ask if
Admin Rule 68.20
applies

- Publicly Funded Facilities
- State Leased Facilities
- Public Accommodations
- Commercial Facilities
- Religious Organizations**

17



Be sure to check
Chapter 2
Scoping

extent of compliance
how many
where
when

18



TAS 201.1

TAS applies to ALL
new and altered elements and spaces
unless exempted or limited by scoping.

19

TECHNICAL
MEMO
2013

12

BOWLING ALLEY
Subject to TAS per 68.20(d)
Scoped in 206.2.11
At least 5% of lanes must comply.

HEALTH CARE PROVIDERS
Subject to TAS per 68.20(d)
Scoping- no exemptions
All exam rooms must be compliant.

201.1

20



**See
Chapter 3**

Building Blocks

the basics of
accessibility

21

302 floor/ground surface

303 changes in level

304 turning space


305 clear floor space

306 knee and toe clearance

307 protruding objects

308 reach ranges

309 operable parts



22


306 Knee & Toes Clearances

306.3.1 Knee Clearance

Space under an element between 9" and 27" a.f.f. is considered **knee clearance**. Knee clearance is:


- 11" deep min @ 9" a.f.f.
- 8" deep min @ 27" a.f.f.

Can be reduced at a rate of 1" for each 6" in height.



306.3.2/306.2.2 Maximum Depth

Toe clearance may extend 25" max under an element. Knee clearance may extend 25" max under an element at 9" a.f.f.



23




Details are in Chapters 4-10

Technical Requirements


The details of what's required for specific elements...

24

- 4 accessible routes
- 5 general site & building elements
- 6 plumbing
- 7 communication
- 8 special rooms, spaces & elements
- 9 built-in elements
- 10 recreation facilities



25



Chapter 3
&
Chapters 4-10

why have
two types
of technical
sections?

how does
that work?

26

302 Floor or Ground Surfaces

302.1 General
Floor or Ground Surfaces

Floor surface

- Finish
- Stairs
- Slope

302.2 Carpet, cont.


- Carpet
- Pile

302.3 Openings

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/4" diameter.

302.3 Openings

Elongated openings shall be placed so that the long dimension is **perpendicular** to the dominant direction of travel.



27

Compliance with 302 required:

- 403.2 Floor or Ground Surface. Walking surfaces. Floor or ground surfaces shall comply with 302.
- 404.2.4.4 Floor or Ground Surface. Maneuvering clearances. Within required
- 404.2.5 Thresholds. Thresholds in doorways shall comply with 302.
- 405.4 Floor or Ground Surface. Ramp runs. Ramp runs shall comply with 302.
- 405.7.1 Slope. Landings. Landings shall comply with 302 and 303.
- 407.4.2 Floor Surface. Elevator cars. Elevator cars shall comply with 302 and 303.
- 410.2 Floor Surface. Platform lifts. Platform lifts shall comply with 302 and 303.
- 502.4 Floor or Ground Surface. Parking spaces & access aisles. Parking spaces & access aisles shall comply with 302.
- 502.4 Floor or Ground Surface. Pull up spaces & access aisles. Pull up spaces & access aisles shall comply with 302.
- 503.4 Floor or Ground Surface. Stair treads. Stair treads shall comply with 302.
- 504.4 Thresholds. Thresholds in doorways shall comply with 302.
- 802.1.1 Floor Surface. Surface of wheelchair spaces shall comply with 302.

walking surfaces
maneuvering clearances
thresholds in doorways
ramp runs
landings
elevator cars
platform lifts
parking spaces & access aisles
pull up spaces & access aisles
stair treads
thresholds in assembly areas

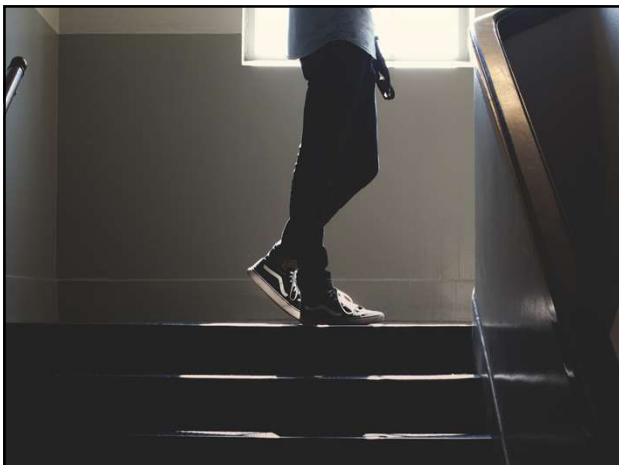
28



30



31



32



34



36



38



40

211 drinking fountains

211.1 General

"where provided"

~~Exception~~

- ~~• Except in holding/housing cells that aren't required to comply w/232~~

41

211 drinking fountains

211.1 General

211.2 Min Number

No fewer than 2

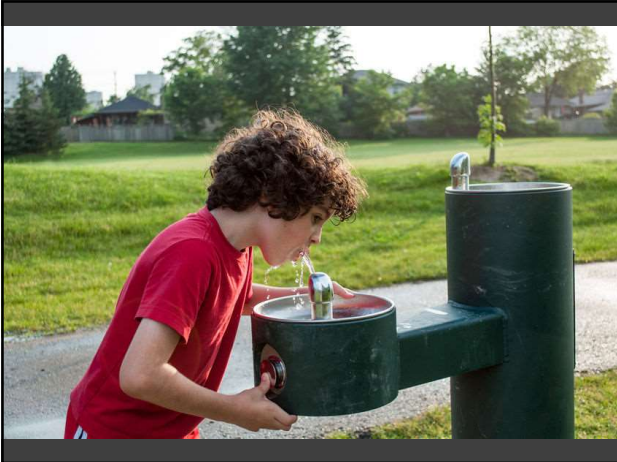
602.1-602.6

602.7

Exception

If one meets 602.1-602.6 and 602.7

42



43

211 drinking fountains

602.1-602.6

211.1 General 602.7

211.2 Min Number

211.3 More Than Min Number

50/50

Exception

Odd #? Your choice.

45

211 drinking fountains

602.1-602.6

602.7

47

211 drinking fountains

602.1 General

comply with 307 & 602

307 Protruding Object

49

211 drinking fountains

602.1 General

307

602.2 Clear Floor Space

305 forward approach, centered

306 knee & toe clearance

50

211 drinking fountains

305

306

602.1 General

307

602.2 Clear Floor Space

Exception

305 Parallel if children's use

Spout @ 30" a.f.f. & 3-½" from front

51

211 drinking fountains 305
306
602.1 General 307
602.2 Clear Floor Space
602.3 Operable Parts
309 Operable Parts

52

211 drinking fountains 305
306
602.1 General 307
602.2 Clear Floor Space 309
602.3 Operable Parts
602.4 Spout Height
36" max a.f.f.

53

211 drinking fountains 305
306
602.1 General 307
602.2 Clear Floor Space 309
602.3 Operable Parts
602.4 Spout Height
602.5 Spout Location
15" min from back
5" max from front

54

211 drinking fountains 305

306

602.1 General 307

602.2 Clear Floor Space 309

602.3 Operable Parts

602.4 Spout Height

602.5 Spout Location

602.6 Water Flow

4" high, 5" from front, 15-30°

Advisory- cup access

55

211 drinking fountains

602.1-602.6 (accessible)

305 CFS

306 Knee & Toe Clearance

307 Protruding Objects

309 Operable Parts

602.7 (standing)

Spout @ 38"-48" a.f.f.

56

drinking fountains

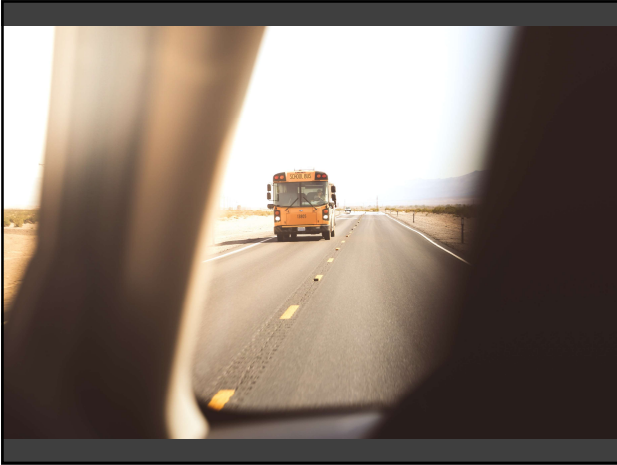
Ask if the law applies - Admin

Be sure to check Scoping 211

C (see) Chapter 3

Details are in 4 thru 10 6

58



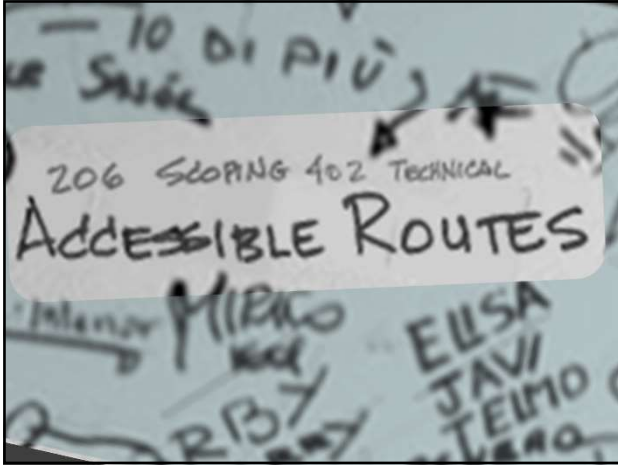
59



60



61



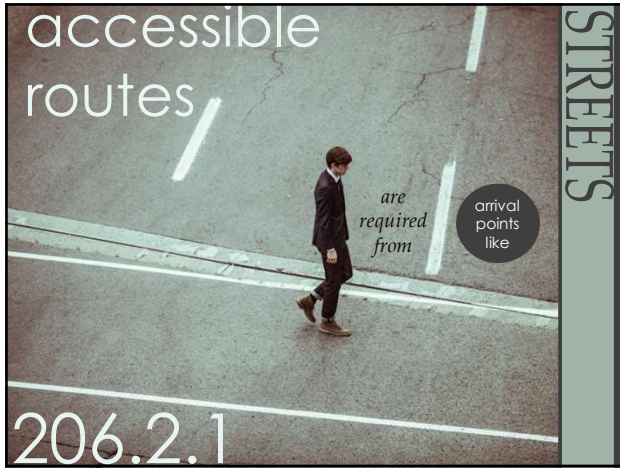
62



63



64



65



66



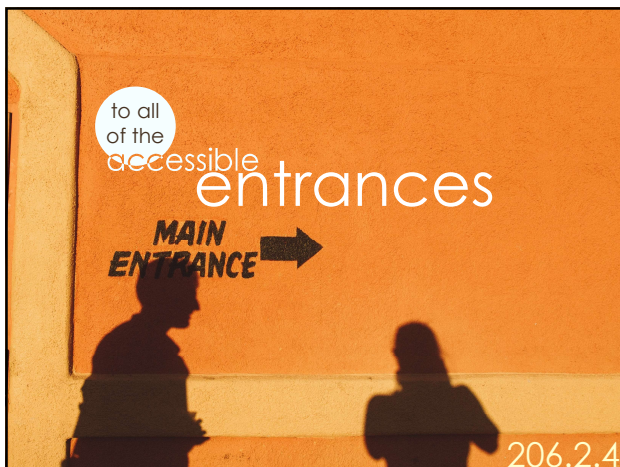
67



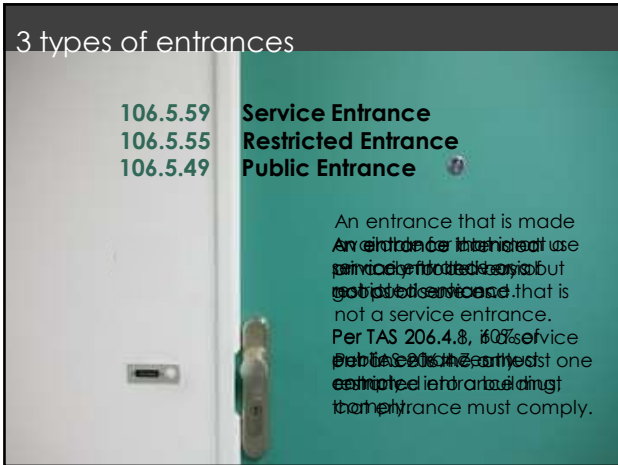
68



69



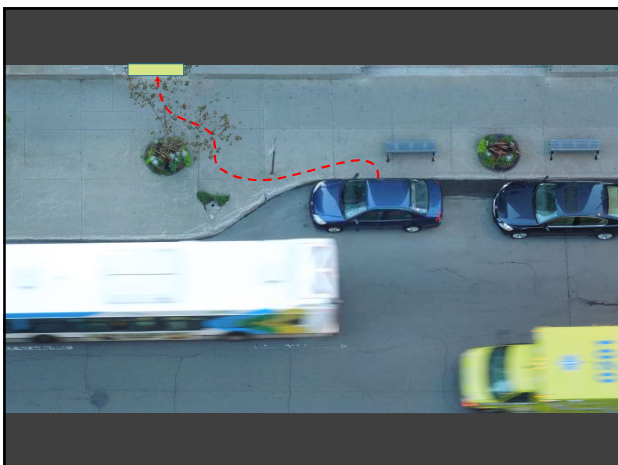
71



72



73



74



79



80



81

Let's take this
levels thing
a step further.

82

Accessible Routes

in specific situations

206.2.3 multi-story buildings

206.2.5 restaurants

206.2.8 employee work areas

83

At least one accessible route
shall connect each story and
mezzanine in multi-story
buildings and facilities.

206.2.3 multi-story buildings

84



85



86



87

accessible route

LULA

limited use/
limited
application
elevator

up to 25'




408

88

accessible route

**PLATFORM
LIFT**

up to 14'



410

89

vertical access



NO

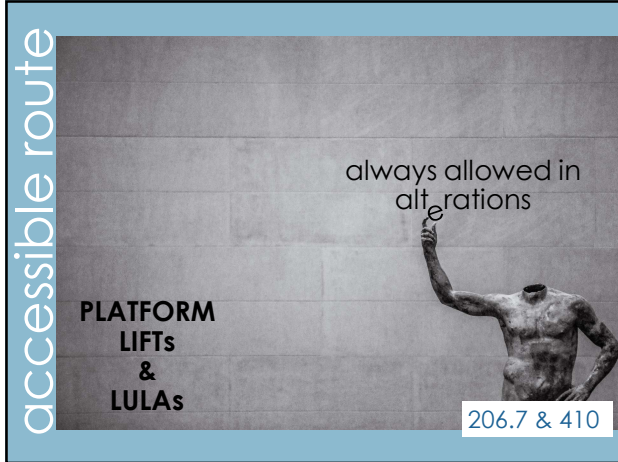


NO

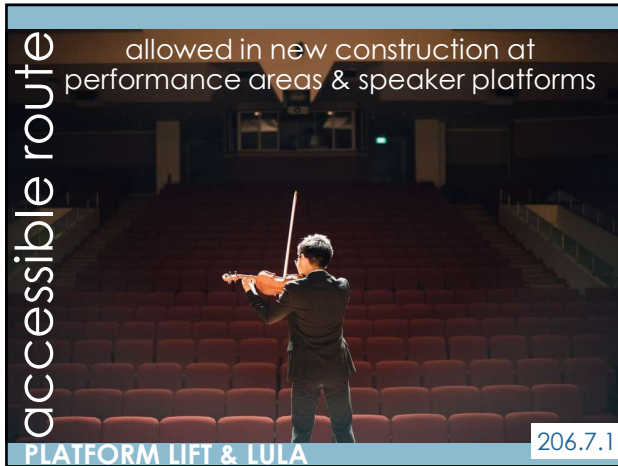


NO

90



91



92



93



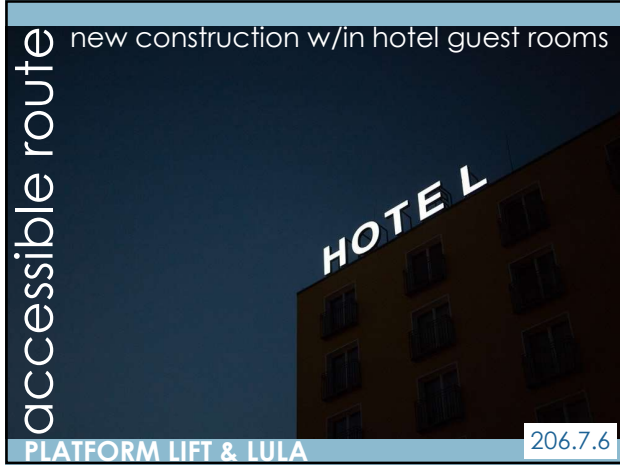
94



95



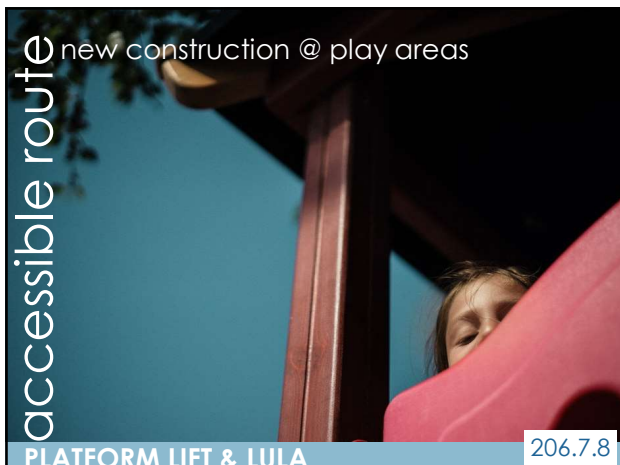
96



97



98



100



101



102




103

Exception 1
An accessible route is not required to connect
staircases not funded by public money
In private facilities OR
That have less than 3000 sq ft or have less than 3 stories some restrictions apply
Provided that it is not a shopping mall, professional office of healthcare provider, or used by a specified transportation provider.

206.2.3 multi-story buildings

104

not funded by public money
less than 3 stories
not a shopping mall, office of healthcare provider, or transportation provider



accessible route between floors not required

105

not funded by public money
less than 3000 sf per story
not a shopping mall, office of healthcare provider, or transportation provider



accessible route between floors not required

Newby-McMahon Building
701 La Salle
Wichita Falls
4 stories, 18'x10'

106

5 or more sales or rental establishments, or
places of public accommodation (68.20)

TECHNICAL
MEMO
2012

03

SHOPPING CENTER

If a shopping center
has more than one
story, an accessible
route is required to
all stories or
mezzanines.

206.2.3 Exception 1

107



accessible route between floors required

108

TECHNICAL
MEMO
2012

03

ONE STORY w/MEZZ

If a retail space has
only one story, an
accessible route is
not required to the
mezzanines.

206.2.4 Exception 3

109



110



111

Exception 2
An accessible route is not required to connect to a story...

in a public facility
that has an occupant load of ≤ 5
does not contain public use space

206.2.3 MULTI-STORY FACILITIES

112

Exception 3

Detention centers & correctional facilities

Exception 4

Residential facilities

Exception 5

Multi-story rooms in transient lodging

Exception 6

Air traffic control towers

Exception 7

Qualified Historic Facilities

206.2.3 MULTI-STORY FACILITIES

113

Accessible Routes

in specific situations

206.2.3 multi-story buildings

206.2.5 restaurants

206.2.8 employee work areas

114

restaurants

An accessible route must be provided to all dining areas, including raised or sunken dining areas, and outdoor dining areas.

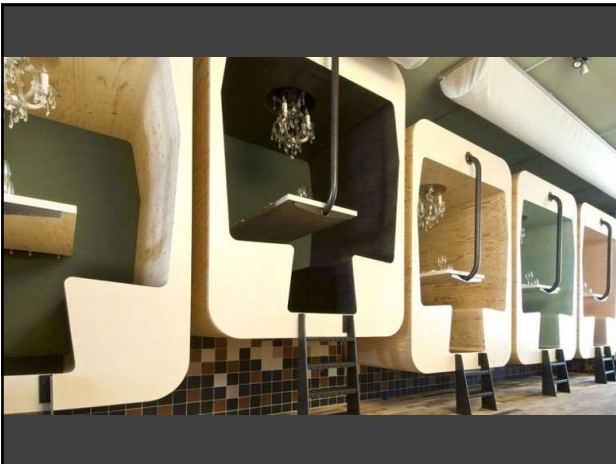
206.2.5



115



116



117

ACCESSIBLE ROUTE
Exception 1

in a multi-story building that is
exempt from providing an
accessible route
between stories

dining on a mezzanine
(not a story)

provides the same dining
experience (views,
entertainment, themes)



206.2.5 RESTAURANTS

118

Accessible Routes

in specific situations

206.2.3 multi-story buildings

206.2.5 restaurants

206.2.8 employee work areas

120

employee work area



all or any portion
of a space:

- used only by employees
- used only for work

121

employee work area

Approach, Enter, & Exit (203.9)

ability to "enter and back out of space"

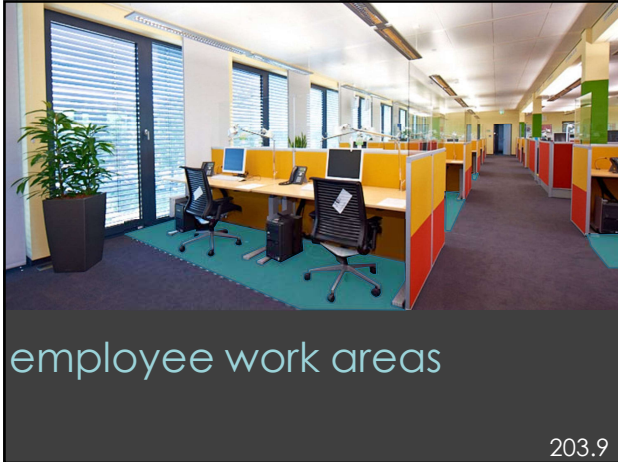
Accessible Common Use Circulation Path
within Employee Work Area (106.5.21)

- shared use by 2 or more people
- not for public use

Egress (207.1)

Fire Alarms (203.8)

122



123



124



125

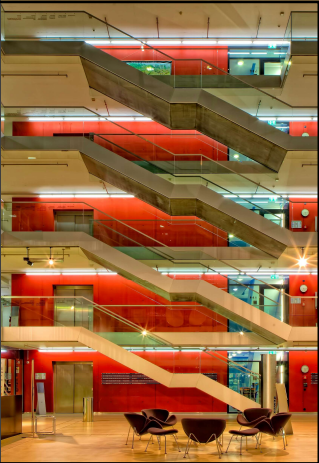
Accessible Routes

in specific situations

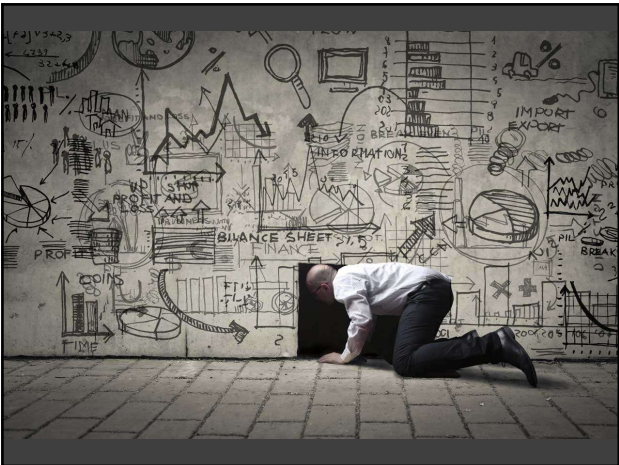
- 206.2.3 multi-story buildings
- 206.2.5 restaurants
- 206.2.8 employee work areas

126

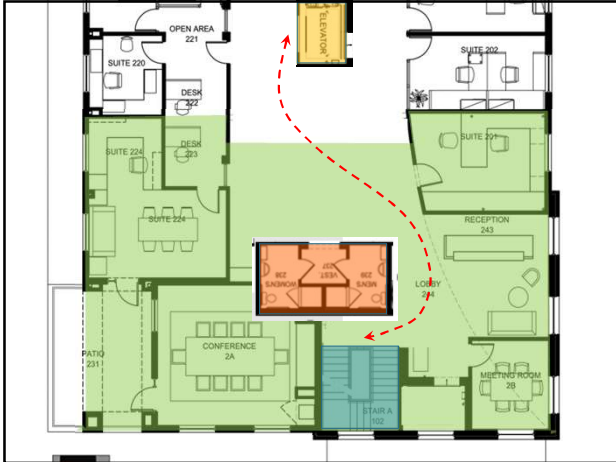
"in the
same area"



128



129



133

CIRCULATION PATH

An exterior or interior way of passage provided for pedestrian travel including, but not limited to...

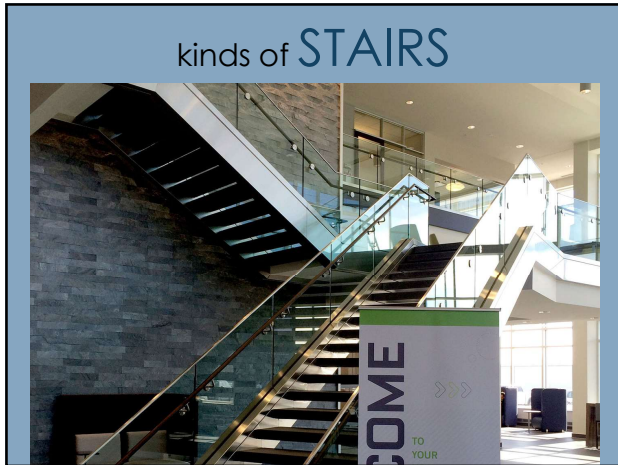
- walks
- hallways
- courtyards
- elevators
- platform lifts
- ramps
- stairways
- landings

106.5.19

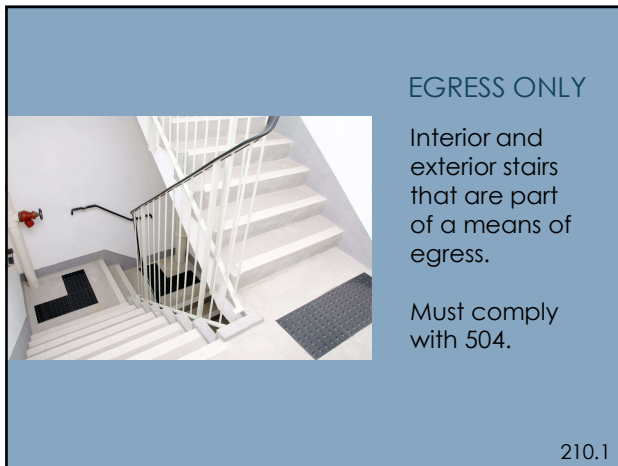
135

which brings us to...

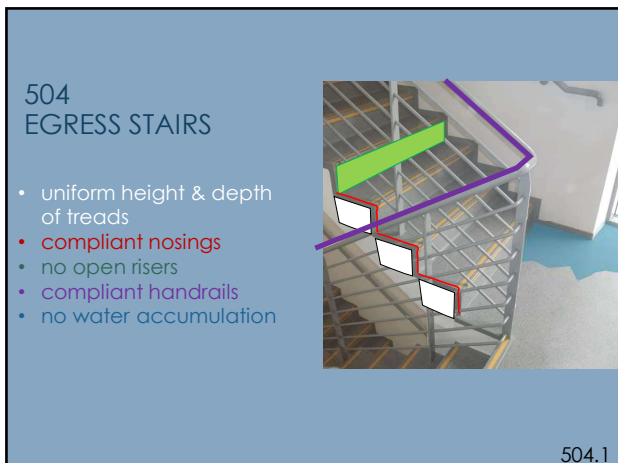
136



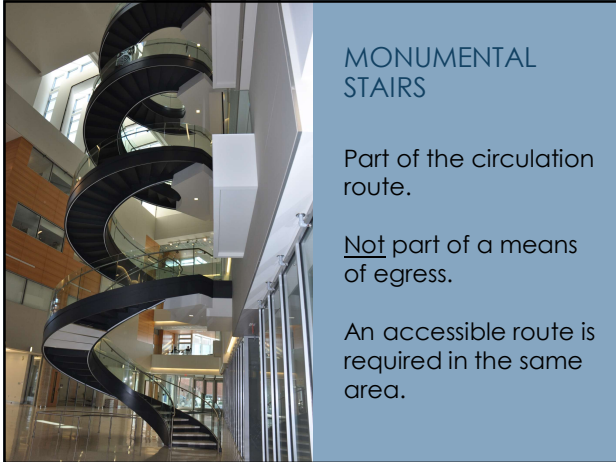
137



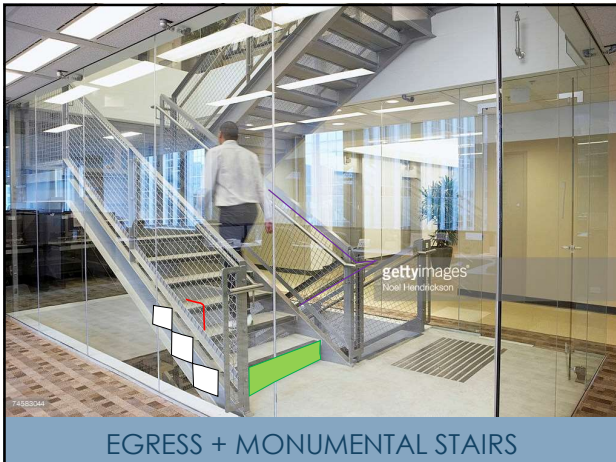
138



139



140



141



142



SOCIAL STAIRS used as ASSEMBLY AREA

Accessible route required nearby (206.3)
Wheelchair spaces at entry points (221.2.3.2 Ex 2)

143



In assembly areas, aisle stairs are not required to
comply with 504

210.1 Exception 3

144

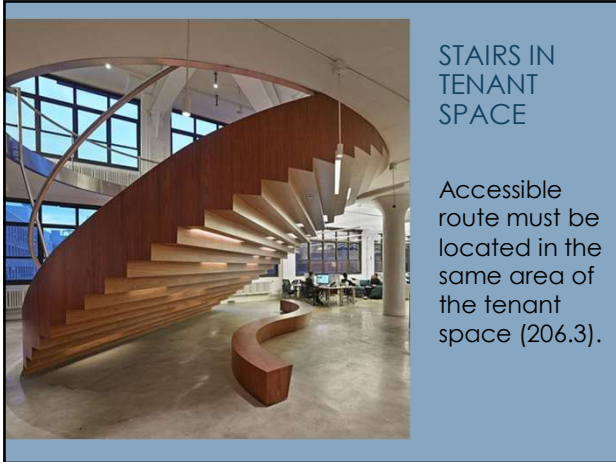


PLAY EQUIPMENT STAIRS

Stairs that connect play components are not required
to comply with 504.

210.1 Exception 4

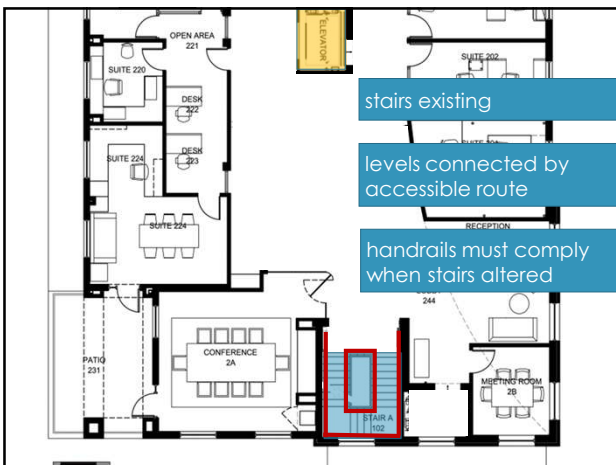
145



146



147



148

Primary Function

section



149

Primary Function

"A major activity for which the facility is intended"

$f(x)$

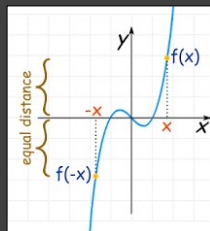
- Why is the space there?
- Do you go to there to use it?

150

Alterations affecting areas of

Primary Function must have compliant **Path of Travel** elements.

$$f(x) = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$



151



152



153



154

parking



- dispersed
- space + access aisle
- accessible route

155

restrooms



- clearances
- overlaps
- protruding objects

156

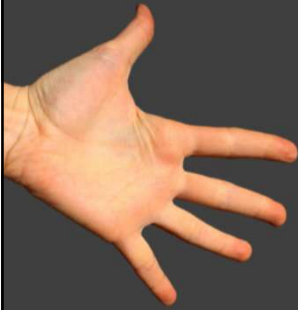
telephones



- clear floor space
- operable parts
- volume

157

drinking fountains



- at least two
- clear floor space
- protruding objects

158

That's basically it.



159

Well, just
one or two
more
things...



160

safe harbor



- alteration of primary fx
- path of travel 94 compliant
- not altered, 12 not req'd

161

Tenant Funding



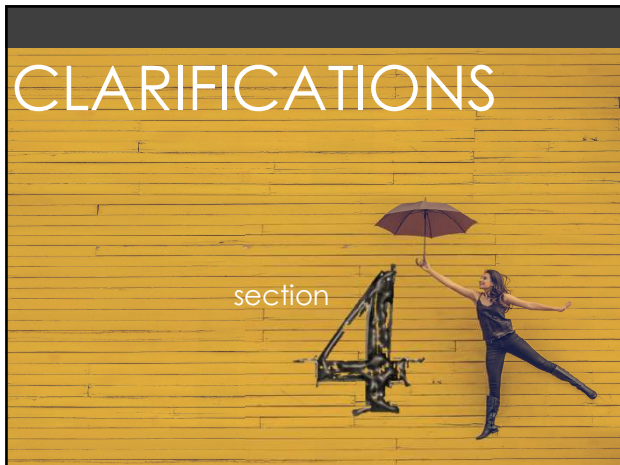
- tenant/owner \$
- $P(f_x)$, path of travel
- ultimate responsibility

162

That is all.



163



164



165

1. Do I have to register it?

TDLR: What type of facility is it
and who will be using it?

166

Admin Rule 68.20

**TAS APPLIES
TO ALL OF THESE**

Publicly Held Companies

Publicly Leased Facilities

Public Accommodations

Commercial Facilities

Religious Organizations

167

1. Do I have to register it?
2. So I have to register it?

TDLR: Is the Estimated Cost of Construction \$50,000 or more?

168

Estimated Cost of Construction

Rule 68.10(13)

All costs for construction of a project except:

- site acquisition
- architectural, engineering & consulting fees
- furniture & equipment (unless it is part of the m/e/p systems)

169

1. Do I have to register it? Yes
 2. So I have to register it? YES
 3. So do I have to register it? No....
- Just Kidding....

YES!!!

170



uhmm... idk

171



Well... What if...

172



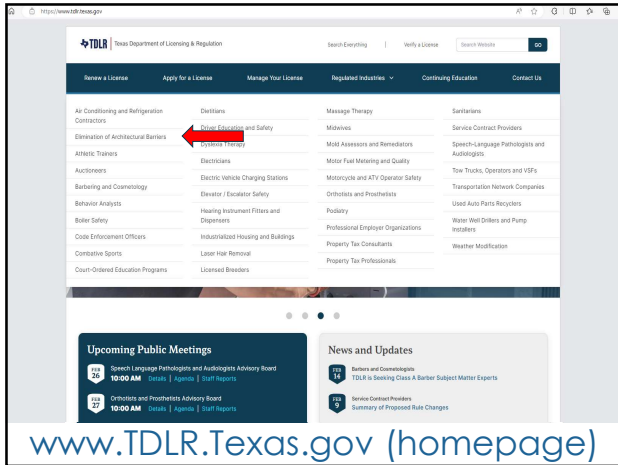
173



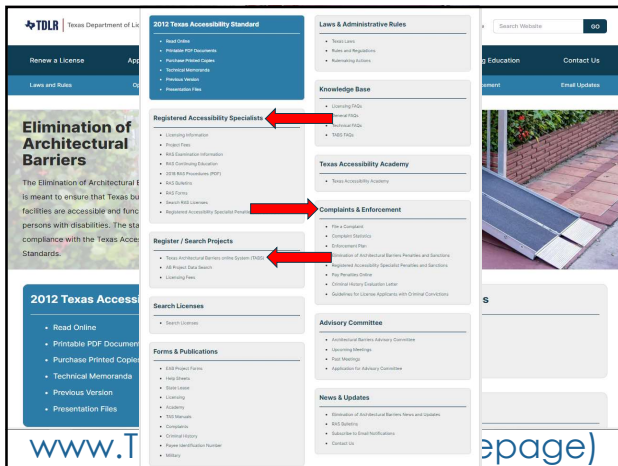
174



175



176



177



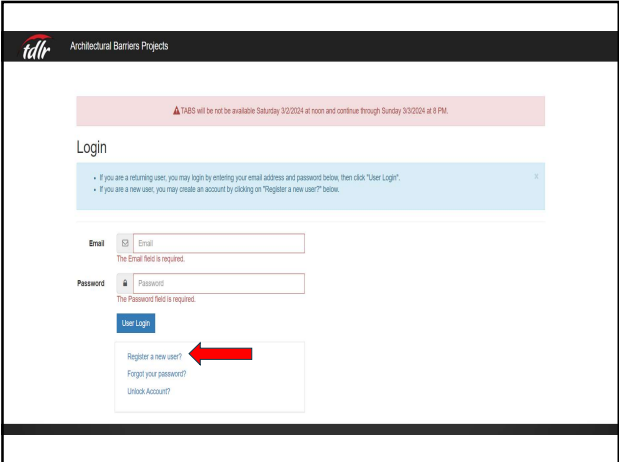
178

RAS,
Designers,
Architects,
Owners...

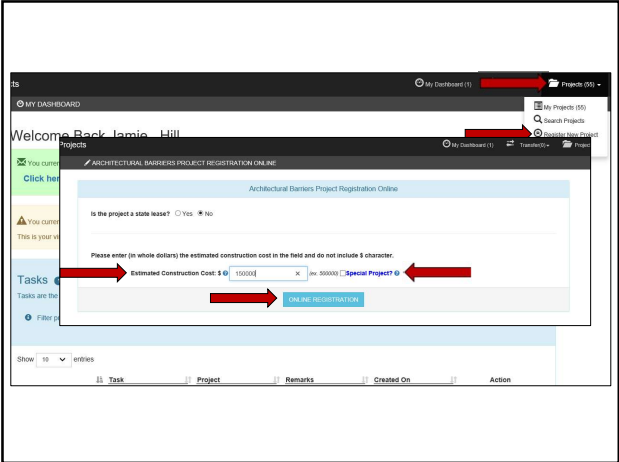
Anyone
with a
TABS
account!



179



180



181

Select Registrars

Search for

License#	Exp Date	Name	City	Zip	County	Phone
RAS_2	11/30/2024	DARR, DOUGLAS W	HOUSTON TX	77031	HARRIS	(713) 605-1903
RAS_8	11/30/2024	DARR, TERESA L	HOUSTON TX	77031	HARRIS	(713) 728-0924
RAS_12	12/13/2024	ROBERTS, ROBIN	HOUSTON TX	77002	HARRIS	(512) 291-5904
RAS_22	12/13/2024	WINNING, WILLIAM T III	HOUSTON TX	77069	HARRIS	(281) 622-0700
RAS_30	12/12/2024	STANTON, BRIAN GARY	HOUSTON TX	77020	HARRIS	(281) 255-9606
RAS_115	06/18/2024	WADWA, MAHESH	CYPRESS TX	77409	HARRIS	(832) 686-6561
RAS_119	04/08/2024	GARCIA, JULIO	HOUSTON TX	77064	HARRIS	(281) 433-7509
RAS_120	09/30/2024	BLOOM, JANEL CAROLINA	HOUSTON TX	77069	HARRIS	(281) 677-0700
RAS_118	01/08/2025	DIAM, NARESH K	HOUSTON TX	77062	HARRIS	(281) 670-1907
RAS_143	02/01/2025	HERMAN, MICHAEL	HOUSTON TX	77036	HARRIS	(281) 414-1833
RAS_148	01/08/2025	OTTEN, KENNETH	HOUSTON TX	77069	HARRIS	(713) 675-1029
RAS_150	02/01/2025	HUSZIA, ATTILA	HOUSTON TX	77069	HARRIS	(512) 677-0122
RAS_209	02/14/2025	LANE, LEONARD Q JR	HOUSTON TX	77027	HARRIS	(713) 621-6969
RAS_149	08/12/2024	MANTHEL, WILLIAM CHRISTOPHER	HOUSTON TX	77045	HARRIS	(713) 854-8494
RAS_489	12/28/2024	MURPHY, JEROME G	HOUSTON TX	77008	HARRIS	(713) 854-8494
RAS_1092	11/21/2024	ABDI, SHARAREH	KATY TX	77450	HARRIS	(713) 675-1529
RAS_1093	09/28/2024	DREPAUL, DAVID S	SPRING TX	77389	HARRIS	(281) 350-1917
RAS_1109	08/27/2024	TULLIER, DONALD A	HOUSTON TX	77008	HARRIS	(713) 894-6494
RAS_1118	02/10/2025	DANTE, DAVID M	HOUSTON TX	77081	HARRIS	(713) 894-6494
RAS_1130	12/17/2024	SZUTU, KAM Y	HOUSTON TX	77030	HARRIS	(713) 792-2080
RAS_1153	10/13/2024	MATHIS, JENNIFER KATHLEEN	HOUSTON TX	77008	HARRIS	(713) 894-8494
RAS_1157	11/27/2024	GREEN, ROBERT W	HOUSTON TX	77008	HARRIS	(713) 894-8494
RAS_1292	03/31/2024	ETHEREDGE, JAY D	HOUSTON TX	77060	HARRIS	(713) 973-2391
RAS_1243	01/31/2025	LEE, AMELIA Y C	HOUSTON TX	77077	HARRIS	(832) 228-3329
RAS_1295	01/31/2024	FULLER, LAURA G	KATY TX	77460	HARRIS	(281) 493-4143

If license not found, please contact Customer Service at 800-803-9202

182

RAS LICENSE

RAS SearchProject InformationContactsVerifyPayments

Select Registered Accessibility Specialist (RAS)

Enter RAS License Number : 16

16
ROBERT, RONSON
107 MEADOW WOODS DR
FORTNEEDASSISTANCE.COM
5127873687

Continue with RAS

Search for TDLR License Data

183

PROJECT REGISTRATION FORM

RAS SearchProject InformationContactsVerifyPayments

This information can only be updated at the time of project registration. The RAS assigned to this project (or TDLR) will make all future updates.

RAS License Information:

RAS# 16
ROBERT, RONSON, 107 MEADOW WOODS DR
Email: robertr@tdlrasassistance.com Phone: 5127873687

Estimated construction start date:

09/21/2019

Project Name:

REALLY SMALL PROJECT THAT WILL TAKE FOREVER

Physical Address: (Do not use a P.O. Box or in-care-of address)

1234 BORING FAKE ADDRESS STE 321

City:

Austin

State:

TX

Type of Work:

New Construction

Estimate of square footage:

5000

Type of Funds:

This project is privately funded, on private land for private use.

Estimated Construction Cost:

150000

Estimated construction completion date:

09/11/2021

Building or Facility Name:

SMALL PROJECT CENTRAL

Other Address: (optional)

Zip Code:

78704

County:

Travis

Scope Of Work:

SMALL NEW BUILDING WITH FANCY FEATURES

Is this project?: (TDLR Only)

Select

Save and Continue

Required Fields

185

53

MANAGE CONTACTS

RAS Project Information Contacts Verify Payments

Click toggle button (G) to expand or collapse the contact details.

OWNER'S DESIGNATED AGENT

☐ Add OWNER'S DESIGNATED AGENT contact

Designated Agent or Company Name *

Address 1 * Address 2 (optional)

Country * City * State * Zip Code * County *

United States Select

Contact Name (Optional) * Phone * Email *

Owner's Designated Agent
If an Agent is designated, an Owner Agent Designation Form must be filled out and uploaded to the project once a project number is assigned. The form can be found here: [Download Owner Agent Designation Form](#)

TENANT (if other than Owner)

Search contacts and vendors

Previous Page

186

REGISTRATION REVIEW

RAS Selected Project Information Contacts Verify Payments

Project Name: REALLY SMALL PROJECT THAT WILL TAKE FOREVER
Building or Facility Name: SMALL PROJECT CENTRAL
Address: 1234 BORING FAKE ADDRESS STE 321, Austin, Travis TX 78704
Scope of Work: SMALL NEW BUILDING WITH FANCY FEATURES
Estimate of square footage: 5000

Est. Start Date: 9/21/2019
Est. End Date: 9/11/2021
Estimated Cost: \$150,000
Job Class: New Construction
Owner Class: This project is privately funded, on private land for private use.
Private Funds Provided By Tenant?: No

Owner: SAMWELL TARLEY
Tenant: RAS: ROBERT JOHNSON
State Project?: No
Special category Project?: No
State Lease Number:

Project Contacts

Contact Type	Name	Address	Phone	E-mail	Type of License
Building Or Facility Owner	SAMWELL TARLEY	1234 CASTLE BLACK ATTHEWALL COLDCPLACE Alaska - 11111 United States	555555555	SAMWELL@WHITEWALKER.COM	

Confirm Project Registration

187

THANK YOU

RAS Selected Project Information Contacts Verify Payments

Success! Registration information stored successfully.

The registration fee for your project is \$175.00. Click on the **Make Payment** button below to make your NON-REFUNDABLE payment now.

- You can pay this TDLR Project Filing Fee by credit card (Visa, MasterCard, Discover, or American Express).
- If you are unable to pay the TDLR project filing fee by credit card, this project cannot be registered in the TABS system. You may however register this project by completing an Architectural/Engineer Project Registration form. You can mail this form along with a check or money order for the applicable project filing fee to TDLR at P.O. Box 12157, Austin, Texas, 78711. This form and payment can also be hand delivered to 820 Colorado, Austin, Texas, 78701.

The project registration number will be issued once payment is made if paying online, or once the form and payment have been received by TDLR if paying by mail. You can verify successful payments on the project management page.

If you are unable to complete the payment process for any reason, you will still be able to make the required payment by going to the project management page. Once there you will see a verify payment transaction link.

Make Payment

This is the only safe place to stop during registration!

The registration will 'time out' after 30 days.

This is where you find your unpaid projects.

My Dashboard (1) Projects (89) Log jessie.hill@tdlr.texas.gov

My Projects (50)
Search Projects
Register New Project
Unpaid Projects

188

UNPAID PROJECTS

Unpaid Projects 1

Show 10 entries

Project Name	Building Name	Estimated Cost	Address	City	Zip	Estimated Start Date	Estimated End Date	Created On	
REALLY SMALL PROJECT THAT WILL TAKE FOREVER	SMALL PROJECT CENTRAL	\$150,000	1234 BORING FAKE ADDRESS STE 321	Austin	78704	05/21/2019	05/11/2021		<div><div>View and Edit</div><div>Remove</div></div>

Showing 1 to 1 of 1 entries

Download

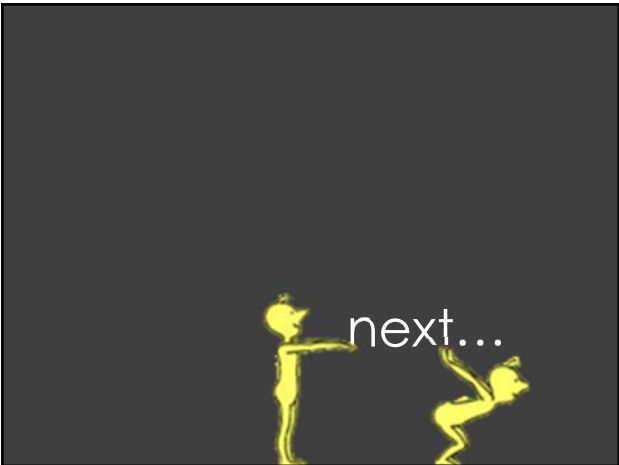
Don't panic if you are missing the remove button.
The program specialists get all the fun stuff

189



NON-REFUNDABLE registration fee

190

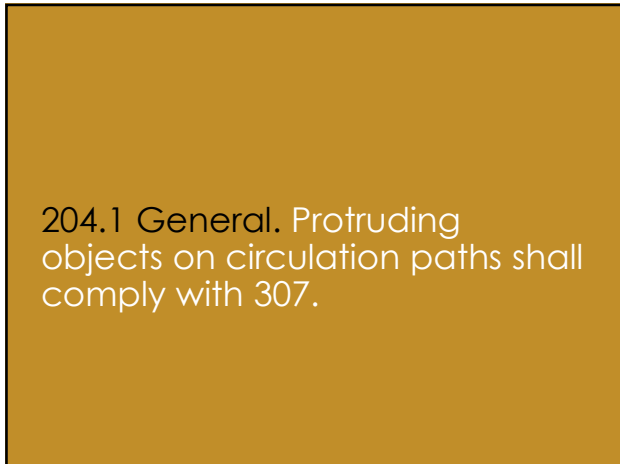


next...

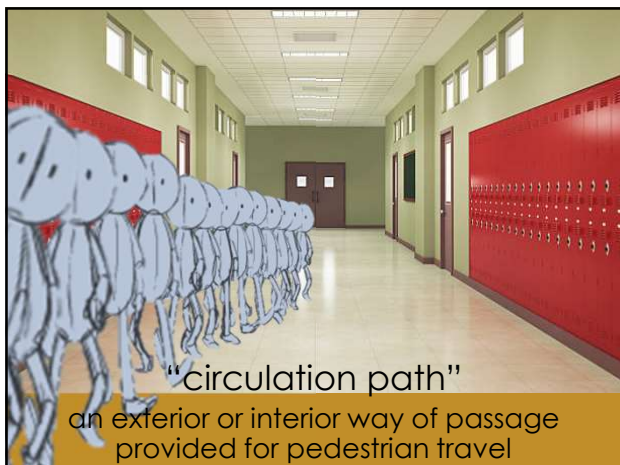
191



192



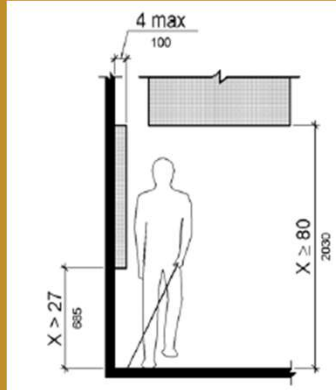
193



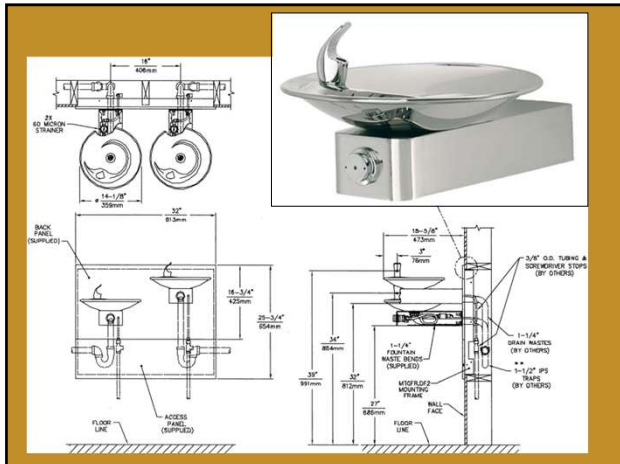
194

protruding object

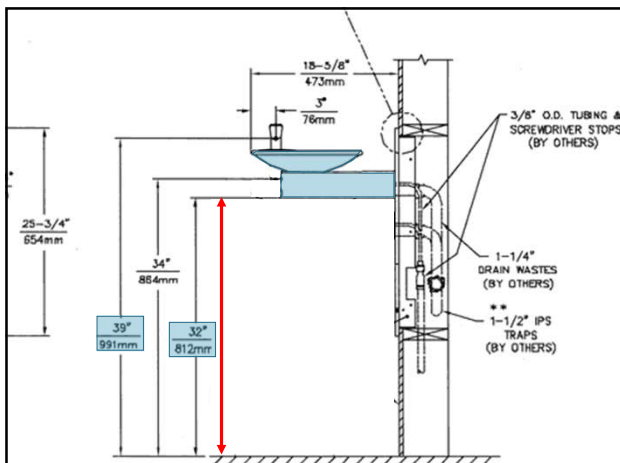
object with leading edges 27" to 80" a.f.f. that protrudes into the circulation path more than 4"



195



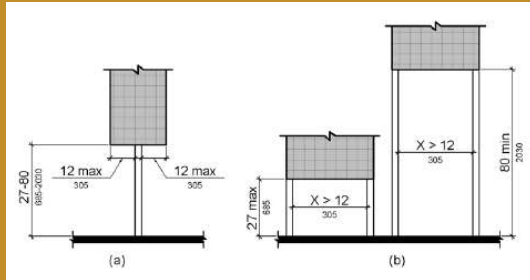
196



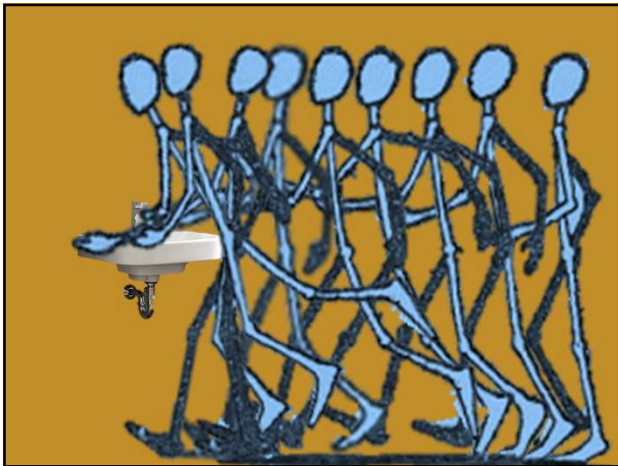
197

Objects mounted on posts or pylons shall overhang circulations paths 12" max when located 27" min and 80" max a.f.f.

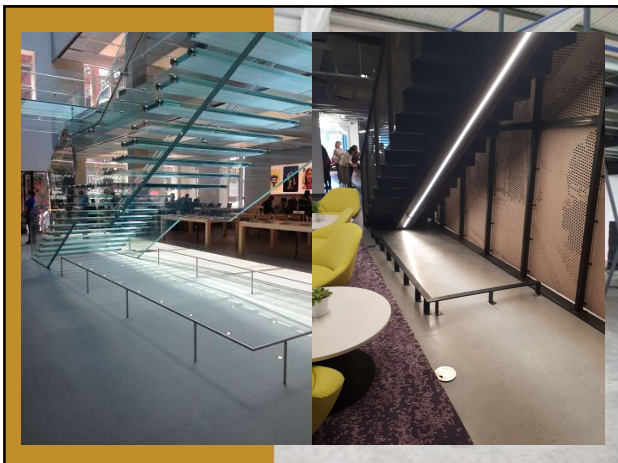
If being mounted between posts or pylons and the distance between them is greater than 12", the lowest edge of the sign shall be 27" max or 80" min a.f.f.



199



201



202



204



205



206



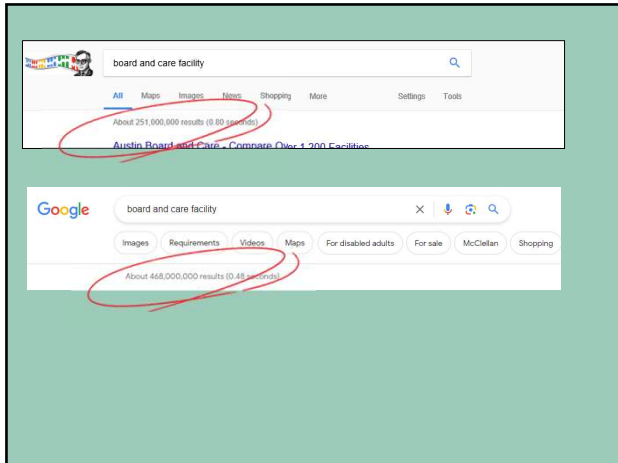
207



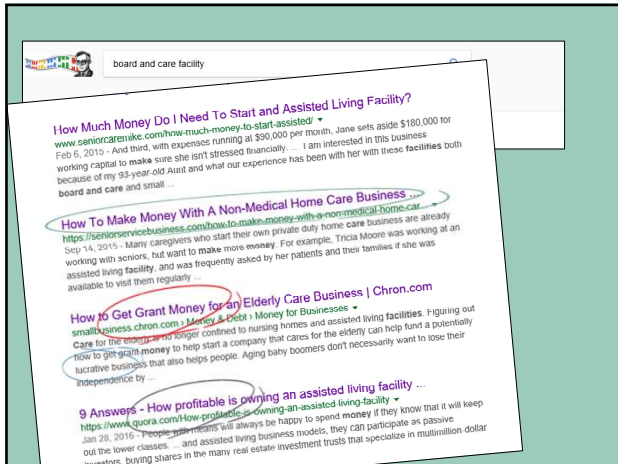
208



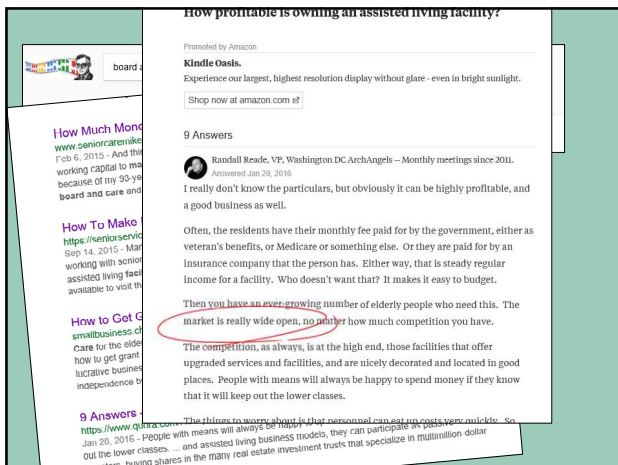
209



210



211



212

62

residential home to long term care facility



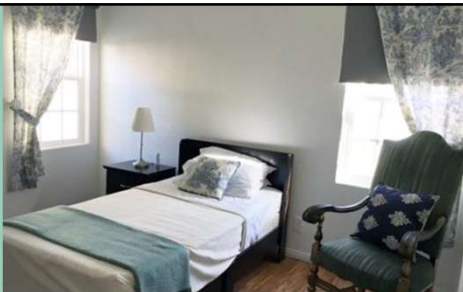
216



At least 50%, but no fewer than one, of each type of resident sleeping room must provide mobility features complying with 805.

TAS 223.3 Long-Term Care Facilities

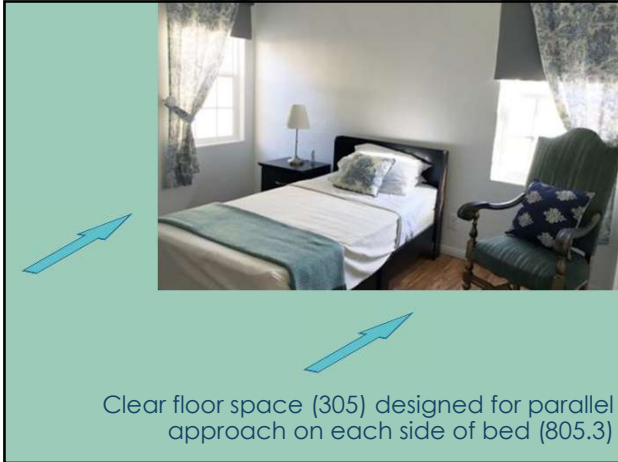
217



Turning space required within room (805.2)



218



219



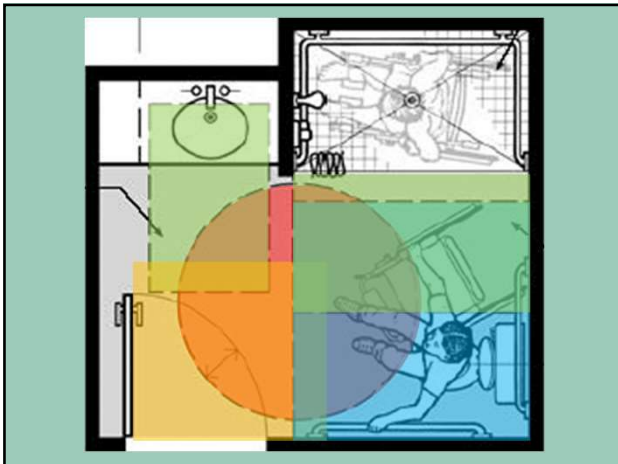
220



221



222



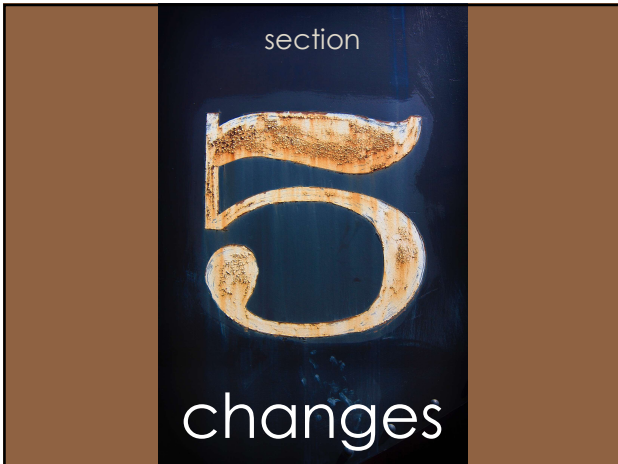
223



224



225



226



227



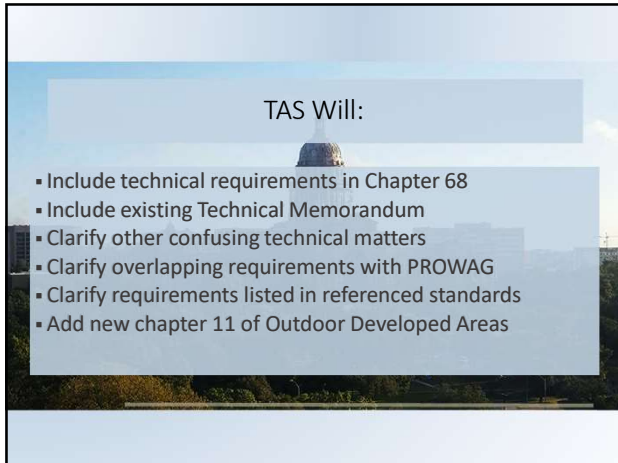
228



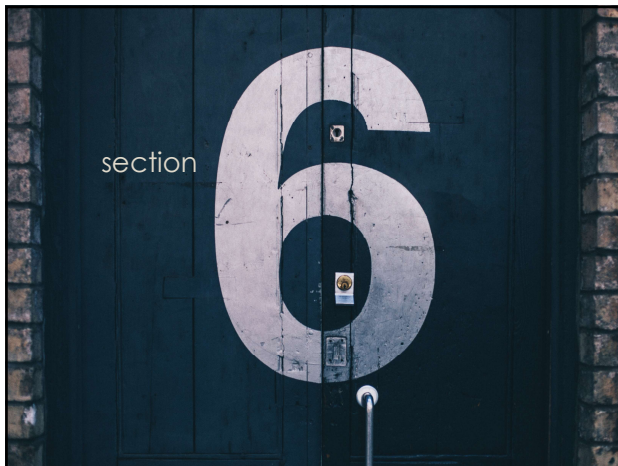
229



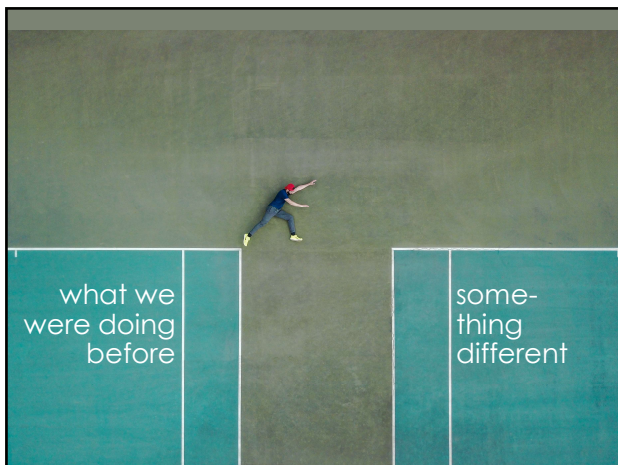
230



232



238



239



**ADA
+ TAS**

- Developed for buildings and facilities
- Difficult to adapt to pedestrian elements in the public ROW

(old AB Admin Code 68.102 = 7 para, 10 sentences)

240

**Accessibility Guidelines for
Pedestrian Facilities in the Public
Right-of-Way**

- Published by the Architectural and Transportation Compliance Board on July 26, 2011, 36 CFR Part 1190
- May 15, 2017:
 - Adopted by TXDOT
 - TDLR AB approved alternative standard
- Old Admin Code 68.102 removed from standards
- Final rule published by Access Board on August 8, 2023

241

presenting

“PROWAG”

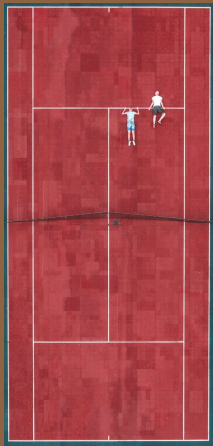
Public Right-of-Way Accessibility Guidelines

242

Public ROW projects that are permitted or whose plans are issued after **May 15, 2017:**

May use either TAS or PROWAG if no federal DOT money is involved.

Must use PROWAG when federal DOT money is provided.



243

PROWAG or TAS

Cannot use part of one

and part of the other.



244

PROWAG and TAS



Unlike other referenced codes, RAS will inspect for compliance to PROWAG just as they do for TAS.

245

PROWAG Chapters

- Ch R1 Application and Administration
- Ch R2 Scoping
- Ch R3 Tech Requirements
- Ch R4 Supplementary Tech Requirements

246

NEED TO KNOW DEFINITIONS

PUBLIC RIGHT-OF-WAY- Public land acquired for or dedicated to transportation purposes, or other land where there is a legally established right for use by the public for transportation purposes.

PURPOSE of the guidelines is to ensure pedestrian facilities located in public right-of-way are readily accessible to and usable by pedestrians with disabilities. Pedestrian travel is the principal means of independent transportation.

247

NEED TO KNOW DEFINITIONS

Paths

PEDESTRIAN ACCESS ROUTE- An accessible, continuous, and unobstructed path of travel for use by pedestrians with disabilities within a pedestrian circulation path.

PEDESTRIAN CIRCULATION PATH- A prepared exterior or interior surface provided for pedestrian use in the public right-of-way.

SIDEWALK- That portion of a highway between the curb line, or the lateral line of a roadway, and the adjacent property line, or on easements of private property, that is paved or improved and intended for use by pedestrians.

SHARED USE PATH- A multi-use path designed primarily for use by bicyclists, pedestrians, and other authorized motorized and non-motorized users, for transportation purposes, and that may also be used for recreation. Shared use paths are physically separated from motor vehicle traffic by an open space or barrier and are either within the highway or other public right-of-way.

248

NEED TO KNOW DEFINITIONS

Paths

HIGHWAY- A general term denoting a public way for purposes of vehicular travel, including the entire area within the public right-of-way.

ROADWAY- That portion of a highway improved, designed, or ordinarily used for vehicular travel and parking lanes, but exclusive of the sidewalk, berm, or shoulder.

STREET- See Roadway

TRANSITIONAL SEGMENT- The portion of a pedestrian circulation path that connects adjacent surfaces with different slopes or dimensions to provide a smooth transition - no requirements on maximum distance

249

NEED TO KNOW DEFINITIONS

Curbs and Crosswalks

CURB - A raised feature along the side of a street that delineates the edge of the roadway or pedestrian circulation path.

STANDARD CURB HEIGHT - The typical height of a curb according to local standards for a given road type, but usually between 3 inches (75 mm) and 9 inches (230 mm) high relative to the surface of the roadway or gutter.

CURB LINE- A line at the face of the curb that marks the transition between the curb and the gutter or street.

CURB RAMP- A sloped connection that is cut through or built up to a curb. Curb ramps may be perpendicular or parallel to the curb or to the street they serve or be a combination thereof.

250

NEED TO KNOW DEFINITIONS

Curbs and Crosswalks

CROSSWALK- That part of a roadway that is located at an intersection included within the connections of the lateral lines of the pedestrian circulation paths on opposite sides of the highway measured from the curbs, or in the absence of curbs, from the edges of the traversable roadway. OR in the absence of a pedestrian circulation path on one side of the roadway, the part of the roadway included within the extension of the lateral lines of the pedestrian circulation path at right angles to the center line. OR any portion of a roadway at an intersection or elsewhere distinctly indicated as a pedestrian crossing by pavement parking lines on the surface.

251

NEED TO KNOW DEFINITIONS

Pedestrian elements

ACCESSIBLE PEDESTRIAN SIGNAL - A device that communicates information about *pedestrian* signal timing in non-visual formats such as audible tones or speech messages, and vibrating surfaces.

PEDESTRIAN ACTIVATED WARNING DEVICES- Devices that are installed in conjunction with a warning-sign and are activated to alert vehicle operators to the presence of a pedestrian, such as rectangular rapid flashing beacons

PEDESTRIAN CHANGE INTERVAL- An interval during which the flashing upraised hand (symbolizing "don't walk") signal indication is displayed

PEDESTRIAN HYBRID BEACON- A Special type of hybrid beacon used to warn and control traffic at an unsignalized location to assist pedestrians in crossing a street at a marked crosswalk

252

NEED TO KNOW DEFINITIONS

Parking

BLOCK PERIMETER- The near side of the streets surrounding a block. For example, on a square block bounded by Main Street to the south, Pine Street to the north, 1st Street to the east, and 2nd Street to the west, the *block perimeter* includes the north side of Main Street, the south side of Pine Street, the west side of 1st Street, and the east side of 2nd Street.

253

PROWAG vs TAS



254



accessible route

36" wide min.
TAS 403.5.1

48" wide min.
PROWAG R302.2
60" @ medians & islands
PROWAG R302.2.1
**Excludes the width of the curb*

255




accessible route

36" wide min.
TAS 403.5.1

Must extend the full width
provided for pedestrians
PROWAG R302.2.2
**cannot be reduced to less than 48"*

256



running slope

the running slope of walking surfaces cannot be
steeper than 1:20 (5%)
TAS 403.3

pedestrian access routes along a highway right-of-
way cannot exceed the general grade established
for the adjacent street
**does not make it a ramp* PROWAG R302.4.1 EXCEPTION

257



running slope

the running slope of walking surfaces cannot be steeper than 1:20 (5%)
TAS 403.3

pedestrian access routes contained within a crosswalk and the roadway design requires superelevation at the crosswalk the grade can be the same as the superelevation

PROWAG R302.4.3 EXCEPTION

258



cross slope -not in a crosswalk

the cross slope of walking surfaces cannot be steeper than 1:48 (2.08%)
TAS 403.3

at pedestrian route not contained within a crosswalk is 2.08% max

PROWAG R302.5.1

*EXCEPTION of R302.5 for pedestrian route from parallel on street parking if at end of block face or nearest midblock crossing to sidewalk

259



cross slope -within a crosswalk

the cross slope of walking surfaces cannot be steeper than 1:48 (2.08%)
TAS 403.3

at pedestrian street crossings with yield or stop control, the cross slope of the pedestrian access route is 2.08% max

PROWAG R302.5.2.1

260



cross slope -within a crosswalk

the cross slope of walking surfaces cannot be steeper than 1:48 (2.08%)
TAS 403.3

at pedestrian street crossings without yield or stop control, the cross slope of the pedestrian access route is 5% max

PROWAG R302.5.2.2

261



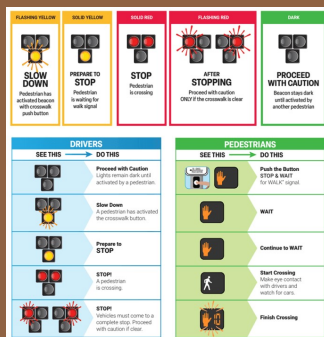
cross slope -within a crosswalk

the cross slope of walking surfaces cannot be steeper than 1:48 (2.08%)
TAS 403.3

at pedestrian street crossings with a control signal or hybrid beacon, the cross slope of the pedestrian access route is 5% max

PROWAG R302.5.2.3

262



263



cross slope

the cross slope of walking surfaces cannot be steeper than 1:48 (2.08%)
TAS 403.3

at midblock pedestrian street crossings, the cross slope of the pedestrian access route can be equal the street or highway grade

PROWAG R302.5.2.4

264

running slope cross slope



TAS - NOT COMPLIANT
PROWAG - COMPLIANT

265

transitional segments

Where pedestrian facilities are altered, they must be connected by a pedestrian access routes comply with R302 to an existing pedestrian circulation path. A transition segment may be used.

PROWAG R202.2



266

transitional segments

Transitional segments may be used to connect new or altered pedestrian access routes to existing pedestrian circulation paths, and the differences between adjacent surface characteristics shall be minimized to provide a smooth transition.

PROWAG R203.2

*variance required



267



curb ramps @ intersection

Diagonal Curb Ramps,

TAS 406.6

There are two kinds of curb ramps:

Perpendicular - 304.2

Parallel - 304.3

PROWAG R304

268



curb ramps @ intersection

Typically, two curb ramps must be provided at each street corner.

PROWAG preamble & analysis of R207

In alterations, where existing physical constraints make compliance with R203.6.1.1 technically infeasible, a single curb ramp complying with R304 shall be permitted at the apex of the intersection corner.

PROWAG R203.6.1.1

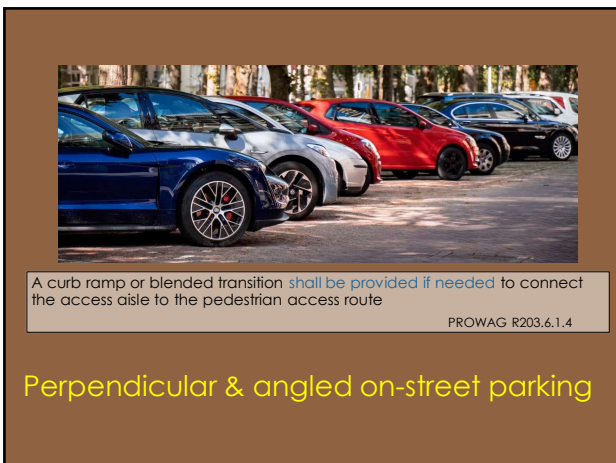
269



270



271



272

alternate accessible route

Where pedestrian circulation path or transit stop is temporarily closed by construction, maintenance operations, or similar conditions, an alternate pedestrian access route or transit stop shall be provided to comply with R204.

PROWAG R201.2



273

alternate accessible route

Signs identifying alternate pedestrian route must be provided in advance of decision points and comply with R410, with proximity actuated audible signs as well.

PROWAG R303.2

Surface on alternate pedestrian route must comply with R302.6 or not be less accessible than temporary closed path.

PROWAG R303.3

Clear width on alternate pedestrian route must be 48" wide minimum (exclude width of curb) or not be less accessible than temporary closed path.

PROWAG R303.4

274

alternate accessible route

Where an alternate pedestrian route crosses a curb, a curb ramp or blended transition complying with R304 must be provided.

PROWAG R303.5

Where a channelizing device is used to delineate an alternate pedestrian route, continuous edging must be provided. Top of 32" minimum above walking surface. Bottom of 2" maximum above walking surface. Gaps in edging are allowed at pedestrian or vehicle turns or cross.

PROWAG R303.6

Where temporary pedestrian signal heads are provided at crosswalk as part of an alternate pedestrian route, R307 compliant pushbuttons or passive detection devices must be provided.

PROWAG R303.7

275

transit stops

Where accessible transit stops are temporarily not accessible due to construction, maintenance operations, or other similar conditions **alternate transit stops that comply must be provided.**

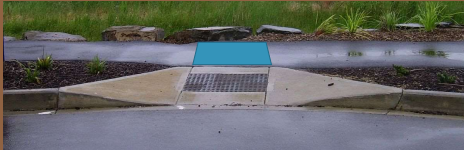
PROWAG R204.2

passenger loading zone

Where a permanently designed passenger loading zone is temporarily not accessible due to construction, maintenance operations, or other similar conditions **and a temporary passenger loading zone provided it must comply.**

PROWAG R204.3

276



landings

Ramp landings must be the same width as the ramp (36" min) and 36" long minimum

TAS

Ramp landings must be the same width as the ramp (48" min) and 48" long minimum.

PROWAG R304.3.4 & R304.2.5

278



refuge islands

Landings in refuge islands must be at least 36" wide

TAS 406.7

The clear width of the access route in medians and refuge islands must be at least 5' wide.

PROWAG R302.2.1

279

signal heads & warning device

Where provided, must comply with operable parts

TAS 205.1

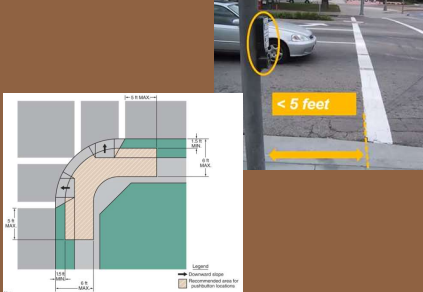
at pedestrian **street crossings with a control signal or hybrid beacon**, the signal head must:

- Have a compliant activation
- Be located no greater than 5' from side of curb ramp but not within 10 feet of a second button at same corner
- Be **parallel** to its associate crosswalk
- Have activation of compliant (R308) **audible and vibrotactile** walk indicators
- Locator tone lasting **.15 seconds or less and repeat at 1 second intervals** unless another audible indication from space

PROWAG R206.2

280

signal heads & warning device



281

signal heads & warning device



In **alterations**, if 10 feet cannot be achieved buttons must provide speech walk message complying with R308.3.2

PROWAG R308.3.2

282

Speech Walk Messages

What did that thing say....?

R308.3.2

"Wait to cross Broadway at Grand." – walk intervals are not timed

"Broadway, Walk sign is on to cross Broadway" – walk intervals are timed with vehicles not an actuator

"Walk sign is on for all crossings." – pedestrian crossings

"Wait" – actuator is pressed

283

signal heads & warning device

Where provided, must comply with operable parts

TAS 205.1

at pedestrian street crossings with a control signal or hybrid beacon, the signal head must:

- Have a compliant activation
- Be located no greater than 5' from side of curb ramp but not within 10 feet of a second button at same corner
- Be parallel to its associate crosswalk
- Have activation of compliant (R308) audible and vibrotactile walk indicators
- Locator tone lasting .15 seconds or less and repeat at 1 second intervals unless another audible indication from space

PROWAG R206.2

284

signal heads & warning device

Where provided, must comply with operable parts

TAS 205.1

OR

at pedestrian street crossings with a control signal or hybrid beacon, the signal head must provide passive detection or pretimed operation audible & vibrotactile inductions that:

- Audible and vibrotactile (that vibrate during walk interval) walk indication during walk intervals.
- Specific message verbiage (R308.3.2.1 – 308.3.2.4)
- 5 dBa louder than ambient sound with max of 100 dBa

PROWAG R206.2

285

clear spaces

Changes in level >2.08% are not permitted in CFS.
TAS 305.2

*cant be located on the ramp

Surfaces of clear spaces can have a running slope consistent with the grade of the adjacent ped access route, IF it conforms to requirements of R302.4 (5% running slope).

PROWAG R404.2 EXCEPTION



286

reach

Obstructed High Reach.
TAS 308.3.2

Forward reach over an obstruction is not permitted.
PROWAG R406.2

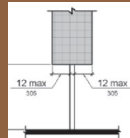
Obstructed side reach is allowed for 10" maximum.
PROWAG R406.3



287

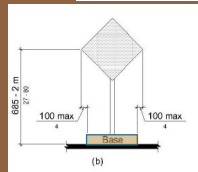
post mounted object

Free-standing objects mounted on posts can overhang circulation paths 12" max
TAS 307.3



Where objects are mounted on free-standing posts or pylons, the objects can overhang pedestrian circulation paths 4" max measured from the post or pylon base.

PROWAG R402.3



288

post mounted objects

The base must be 2½" thick minimum.
PROWAG R402.3



289



290

TAS - COMPLIANT
PROWAG - NOT COMPLIANT



291



detectable warnings

detectable warnings are required at bus or train platform boarding areas

TAS 705 & 810.5.2

292



detectable warnings

Detectable warning surfaces shall be provided at:
Curb ramps and blended transitions at pedestrian street crossings

PROWAG R205.2

293

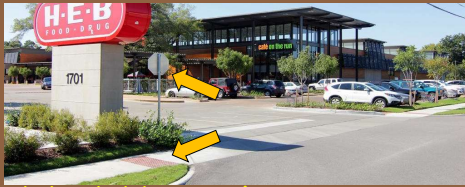


detectable warnings

Detectable warning surfaces shall be provided at:
At-grade pedestrian refuge islands > 6' long

PROWAG R205.3

294



detectable warnings

Where commercial driveways are provided with yield or stop control, detectable warning surfaces should be provided at the junction between the pedestrian route and the vehicular route.

PROWAG R205.7

295



detectable warnings

Detectable warning surfaces should not be provided at crossings of residential driveways since the pedestrian right-of-way continues across residential driveway aprons.

PROWAG R205.7

296



detectable warnings

detectable warning surfaces... shall extend the full length of the public use area of the platform

TAS 705.2

Some detectable warning products require a concrete border for proper installation. The concrete border should not exceed 2".

PROWAG R305.2

297



street parking

Where parking pay stations are provided and the parking is not marked, each 20 ft of block perimeter where parking is permitted shall be counted as one parking space.

PROWAG R211.2

298

street parking

Total Number of Metered or Designated Parking Spaces	Minimum Required 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 percent of total

299

street parking

- EXCEPTIONS: 1. On-street parking spaces designated exclusively as residential parking shall not be required to comply with R211 and shall not be counted for purposes of Table R211.
2. On-street parking spaces designated exclusively for commercial or law enforcement vehicles shall not be required to comply with R211 and shall not be counted for purposes of Table R211.
3. Where on-street parking spaces are altered, the requirements of R211 shall apply only to the affected parking spaces until the minimum number of accessible on-street parking spaces as specified in Table R211 are provided

PROWAG R211.1

300



street parking

Parking and access aisle: Changes in level are not permitted
TAS 502.4

303



street parking – parallel

Must be 24' long and 13' wide
Cannot encroach the traveled way (the roadway)
PROWAG R310.2.1.

305

street parking

In alteration of parking space, but not pedestrian circulation path..

Parking space can be same dimension as other parking provided

IE at the end of block face or nearest a midblock crosswalk AND a curb ramp is provided serving the crosswalk

PROWAG R310.2.1 EXCPECTION 1



306

street parking

In an alteration, where providing required dimensions would result in right of way width to be ≤ 9 ft

Parking space can be same dimension as other parking provided

IF at the end of block face or nearest a midblock crosswalk AND a curb ramp is provided serving the crosswalk

PROWAG R310.2.1 EXCEPTION 2



307

DONE!



QUESTIONS?

308
