





ADA uses language **identical** to Title VI of the Civil Rights Act of 1964, which addressed **race**, **color**, and **national origin**. The ADA forbids "<u>excluding from participation in</u>, <u>denying the benefits of</u>, or <u>subjecting anyone to discrimination</u>" on the basis of disability.

Civil Rights of 1964

ADA of 1990 – A Civil Right!

Title I – Employment

Title II - Public Services

Title III – Private Entities

- Title IV Telecommunications
- Title V Miscellaneous



The Architectural Barriers Act of 1968 and the Rehabilitation Act of 1973 were attempts to address systemic barriers to accessibility. Both were tied to entities receiving federal funding. The ADA dissolved the funding connection for accessibility and applies to All government entities.















General

FDM 222.1 – Reference the following conditions that support not providing a pedestrian facility in the Derign Variation documentation:
(3) The presence of other available means for pedestrian traffic. Other available means should meet the following requirements:
(c) flot result in a significant increase in travel time or trip length, exposure to motorized traffic, or substantial elevation changes.
(d) Provide appropriate locations to cross limited access, arterial or

collector roadways, or railroad corridors.

For Local projects, see documentation requirements in the FGB Ch 14.















Sidewalk FGB 8.B.1

FDM 222.2.1 – Continue sidewalk across **bridge** structures when sidewalk is provided on the approach roadway. Also provide sidewalk on **new** bridges where sidewalk or shared use path is not present along the roadway but may be included with a **future** project.



Sidewalk FGB 8.6.1 FDM 222.2.1 – Sidewalk should be constructed on both sides of the roadway; however, if sidewalk is constructed on both sides of the reasonable pedestrian access to destinations (e.g., transit stops, homes, places of work, stores, schools, post offices, libraries, parks) on the opposite side. See FDM 114! For RRR Projects, other than meeting detectable warning and curb ramp requirements, unaltered sidewalks that are not in compliance with FDM criteria, Standard Plans, or ADA requirements are not required to be reconstructed.

Identify opportunities for improvement as part of RRR!







Sidewalk Width

FDM 222.2.1.1 – Appropriate types of street furniture may vary based on **frequency** and **den/ity** of pedestrian activity. Street furniture must allow for minimum sidewalk **width** and **vertical** clearance as required in this section and **FDM 222.2.1.2**.

Refer to **FDM 223.5** for information on bicycle parking amenities and **FDM 225** for information on public transit facilities as related to use of sidewalk space.





Grades & Cross Slopes

FDM 222.2.1.3 – When sidewalk is **adjacent** to the roadway (i.e., located back of curb or consistent separation from curb), sidewalk grades may mirror **roadway profile**. When sidewalk is not



adjacent to a traveled way, sidewalk grades are **not** to exceed **5%**, unless accessible ramps* are provided.

5% [1:20] < ***ADA Accessible Ramp Criteria** ≤ 8.3% [1:12] See 2020 *FBC* (*https://floridabuilding.org*).







Longitudinal Grades

FDM 224.6 – When a shared use path is **adjacent** to the roadway (i.e., follows the roadway profile), shared use path grades may **mirror** the roadway **profile**. When not adjacent to a traveled way, shared use path grades are **not** to exceed



5%, unless accessible ramp/ are provided. Maximum ramp slopes are 8.33% and can have a maximum rise of 30 inches, with a level landing at least 60 inches in length.

Longitudinal Grades

FDM 224.6 – Grades greater than 5% cause difficultier for many path users including bicyclists. Table 224.6.1 provides maximum grades and distances for areas in which the **terroin** makes it necessary to use steeper grades on short sections.

Refer to *FDM* 224.11 for **control**, on grade changes.

	Manianum Langeth (fact)
Longitudinal Grade (%)	Maximum Length (feet)
6	800
7	400
8	300
9	200
10	100
11+	50
 When using a longer grade to the path to allow a bicyc Clear distances and sight of longer grades. 	e, consider adding 4 to 6 feet of additional width list to dismount and walk their bicycle. distances should be adjusted to accommodate

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Curb Ramps and Blended Transitions

Alpha-identification, have been provided in Index 522-002 for the various curb ramp options (e.g., CR-A, CR-B, etc.) to facilitate ease of callouts in the Plans. Use the curb ramp options as follows:

- CR-A, CR-B & CR-C where ramp and landing depths are not restricted.
- CR-D, CR-E, CR-F, CR-G and CR-H
 for linear pedestrian traffic.
- CR-K and CR-L where ramp and landing depths are restricted.

...but a SP detail is <u>NOT</u> a sitespecific design...it's a concept!



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Curb Ramps and Blended Transitions

FDM 222.2.2 - FGB 8.G.2

Include sidewalk curb ramps at the following locations:

- All **interrections** and driveways with **curbed** returns. Include a landing at the top of each ramp.
- On curbed roadways between intersections where a crorrwalk has been established.

Curb Ramps and Blended Transitions

FDM 222.2.2 - FGB 8.G.2

Pull boxes, manholes (and other utility covers), and other types of existing **surface features** in the location of a proposed curb ramp or detectable warning should be **relocated**.



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Curb Ramps and Blended Transitions

FDM 222.2.2 - FGB 8.G.2

When relocation is not feasible, adjust the feature to meet the ADA requirements for surfaces (including the provision of a nonslip top surface and adjustment to be flush with and at the same slope as the adjacent surface).











Curb Ramps

FDM 222.2.2 - FGB 8.G.2

When **altering** an existing pedestrian facility and conditions preclude a maximum curb ramp slope of **1:12**, provide a slope from **1:12** to **1:10** with a max. rise of **6**".



Provide a landing at all pedestrian **purbutton** locations. The landing must provide a clear area of **30" x 48"** directly in front of the pedestrian pushbutton to allow persons using a wheeled mobility device to actuate the button while remaining **Actionary**. Horizontally center the **48"** dimension on the pushbutton.

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Curb Ramps

FGB 8.B.1

FDM 222.2.2 – When compliance with Department curb ramp requirements is determined to be **technically infeasible** (i.e., no engineering solution is available), a **Design Variation** is required.

This may occur where existing right of way is inadequate and where conflicts may occur with **existing features** which cannot be feasibly relocated or adjusted (e.g., drainage inlets, signal poles, pull and junction boxes, etc.).









Crosswalks FGB 8.G.1.a

FDM 222.2.3 – Crosswalks are marked path/ where pedestrians can rafely cross a roadway. Marking of crosswalks helps driver/ better identify the intersection and guides pedertrian/ to the best crossing location. For details on crosswalk pavement markings, see Standard Plans, Index 711-001.

> Accessible parking details also provided in Index 711-001.



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Crosswalks FGB 8.G.1.a

TEM 5.2 also contains **criterio** and **guidelines** on additional treatments including signals, signing, pavement markings and other treatments at **midblock** and **unsignalized** intersections.

For crosswalk signing and pavement **marking**, see FDM 230, MUTCD, and Standard Plans, Index 711-001.

The maximum cross slope for crosswalks is 2%. For crosswalks located at **rignalized** intersections, midblock, or driveways, cross slope may exceed 2% but not greater than 5%.





Crosswalks

School Zone crosswalks have additional criteria for signing and pavement markings. For requirements for school signs and markings, see The Manual on Speed Zoning for Highways, Roads and Streets in Florida, Chapter 15.



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Intersections

FDM 222.2.3.1 – Provide crosswalk **marking** for all legs of a **signalized** intersection unless there is a documented, project-specific justification not to do so (e.g., physical constraints, safety concern).

When separated **right-turn lanes** are used, place crosswalks so that an approaching motorist has a **clear view** of the pedestrian, and the crossing **distance** is minimized. See *TEM*, **2.44** for signing criteria.







Intersections

FDM 222.2.3.1 -

For controlled intersections with six-lane divided roadways or crossing distances > 80', consider installing a **two-stage** pedestrian crossing with median **refuge island**. See **FDM 210** for more information on Intersection Refuge Islands and Hardened Centerlines.















FDM 222.2.4 - FGB 8.G.6

Provide an ADA accessible route for pedestrians at railroad crossings by **extending** proposed or <u>existing</u> **ridewalk** or shared use paths through the rail crossing.









At-Grade Railroad Crossings

FDM 222.2.4 -

An **audible** device, such as a bell, is used in conjunction with the traffic control signals, if traffic control signals are in operation at a crossing that is used by **pedertrianr** or bicyclists. Additional information is located in the **MUTCD** regarding additional signals, signs, or pedestrian gates and designing **crossing** for shared use paths.

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FDM 222.2.4 – Flangeway **gaps** are necessary to allow the passage of



train wheel flanges; however, they pose a potential **hozord** to pedestrians who use wheelchairs because the gaps can **entrop** the wheelchair casters. A maximum flangeway gap is required for all at-grade pedestrian rail crossings of **2** ½" for all **non-freight** rail track and **3**" for **freight** rail track.

Provide Perpendicular crossing!

Bicycles, too!



Curb Extensions (Bulb-Outs)

FDM 222.2.6 – Consider the use of curb extensions (a.k.a. bulb-outs) in **conjunction** with on-street parking at intersections or midblock locations where there is a crosswalk, provided there is **adequate** width for existing

traffic movements. Curb extensions **/horten** the crossing **dirtance**, and provide additional space at intersections, allowing pedestrians to see and be **/een** before entering a crosswalk.





Pedestrian Signals

FDM 222.2.7 – See *FDM* 232.6 for **information** on pedestrian signals. Pedestrian **detector** assemblies and pedestrian **control** signals are detailed in *Standard Plans*, Indexes 653-001 and 665-001.












Street Furniture

FDM 222.2.11 – Street furniture may include **benches**, lighting fixtures, transit shelters, and bicycle parking. These items may be placed within the R/W under certain **conditions**.





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Ensure items **do not obstruct** sight distance or visibility of pedestrians at crosswalks. Do not use street furniture on **curb extensions**.

Street Furniture

FDM 222.2.11 -

Refer to FDM 223.5 for information on bicycle parking **generities**, and FDM 225 for



information on public transit facilities. Appropriate types of street furniture may vary based on **frequency** and **density** of pedestrian activity. Street furniture must allow for minimum sidewalk **width** and **lateral offset** requirements identified in *FDM* 2222.1.1 and 222.2.1.2.

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Detectable Warnings

FDM 222.3 – Detectable warnings are a distinctive surface **pattern** of **domer** detectable by **cane** or underfoot that alert people with **virion** impairments of their approach to street **crorringr**.

> Not an alignment indicator!











Pedestrian Drop-off Hazards and Railings

FDM 222.4 -FGB 8.F A pedestrian drop-off hazard is a steep or abrupt downward slope that can be **hozordou** to pedestrians.













Pedestrian Drop-off Hazards

FDM 222.4 -

The **Andard** height for Pedestrian/Bicycle Railing is **42**". Provide **48**" **tall** Pedestrian/Bicycle Railing when all three of the following conditions exist:



(1) Bicyclists **permitted** to travel within **3'** of railing.

(2) Path is on a **downhill** grade > 5%.

(3) There is a horizontal **curve** having **radius** less than that specified for the design speed of the bicycle facility. Taller railing should not extend more than **20'** beyond the point of tangency of the horizontal curve.

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FDM 222.4 - FGB 8.F

Pedestrian railings are not required where **W-beam** guardrail is **installed** at the back of the sidewalk or shared use path.

> Pedestrian/Bicycle railings (42" in height) are **not required** where traffic railings **reparate** the vehicular traffic from the pedestrian or bicycle facility.

Where Pedestrian/Bicycle Railing is used, the Department will cover the cost only for standard galvanized *steel* or standard **aluminum** railing. If the Local Agency desires a **painted** railing, they are required to provide the additional **funding** and commit to cover the **maintenance** cost.

Pedestrian Drop-off Hazards

FDM 222.4 -

The Department will cover the cost of the **standard** Infill Panel Types shown in the **Standard Plans**. If the Local Agency desires a railing having **Custom** Infill Panels which increases the cost over standard infill panels, they are required to provide the additional **funding** to cover the initial premium cost. In addition, a maintenance agreement will be needed to address the **responsibilities** associated with maintaining Custom Infill Panels.



























General

FDM 240.1 – For TMPs, *ignificant* projects are defined as:

(1) A project that, alone or in combination with other concurrent projects nearby, is **anticipated** to cause *rustained* work zone impacts.

(2) All **interstate** system projects within the **boundaries** of a designated Transportation Management Area (**TMA**) that occupy a location for more than **three** days with either intermittent or continuous **lane closures**.



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General

FDM 240.1 – Significant projects may require a **multidiscipline** TMP team to plan, **coordinate**, implement, monitor, and evaluate the details of the TMP **elements**.

Depending on the project **logistics**, the team **composition** may include FHWA, local government, and business **representatives**.

General	Transportation Management Plan (TMP) Form Responsible Professional Engineer FDOT Project Manager State Road
FDM 240.1 – Complete the Transportation Management Plan Form, form 240 (See FDM 103). This form is required for all projects (significant or not) to document compliance with the 23 CFR 630 , Subpart J.240.1.1 , TMP Reference Documents .	Project Description: Project Limits (MP): From Project Limits (MP): From Project Limits (MP): From Project Description: Project Project Description: Project Project Description: Project Project Description: Project Description: Project Project Description: Project Project Description: Project Project Description: Project Project Project: Project Project Project: Project Project Project: Project Project Project: Project Project Project Project: Project Project Project Project: Project Project Project Project: Project Proj































Temporary Traffic Control Devices

FDM 240.2.2.1 – If the work zone **interrupt** the continuity of an existing bicycle or pedestrian way, then **provide** signs directing non-motorists alongside or around the work zone and **back** to the bicycle or pedestrian way.

See the *Standard Plans*, **102** Series for **required** work zone signs and placement.





Temporary Traffic Control Devices

FDM 240.2.2.1 -

Modify existing guide signs to show changes made necessary by the construction **operations**. If existing guide signs are to be removed during construction, make provisions for **temporary** guide signing. The temporary sign should be black on orange with the legend designed in accordance with *MUTCD* **requirements** for permanent guide signing.







Temporary Traffic Control Devices

FDM 240.2.2.8 – Temp Traffic Signal Provide sufficient **signal timing for pedestrians** where a pedestrian crossing is present.

Include temporary traffic signals in the TTCP in accordance with *FDM* **240.2.1.12**.




















































Pedestrian and Bicycle Accommodations

102-3.4 Pedestrian and Bicycle Accommodations: Provide accommodations for pedestrians as shown in the Temporary Traffic Control (TTC) plans or as directed by the Engineer. Accommodate pedestrians with a safe, accessible travel path around work sites separated from mainline traffic in compliance with the Americans with Disabilities Act (ADA) Standards for Transportation Facilities (i.e., stable, firm, slip-resistant, and free of any obstruction or hazards such as holes, debris, mud, construction equipment, and stored material. When a work operation requires a sidewalk or pedestrian way closure for 60 minutes or greater, provide a pedestrian detour or temporary pedestrian way. Provide and maintain pedestrian detours and temporary pedestrian ways that are <u>ADA-compliant</u> as described above. Provide appropriate signs for advanced notification of sidewalk closures and marked detours. Only approved pedestrian longitudinal channelizing devices may be used to close or delineate a pedestrian walkway.

Provide accommodations for the closure of bicycle facilities (i.e., marked bicycle lanes or paved outside shoulders 4 feet or greater in width on non-limited access roadways) as shown in the TTC plans or as directed by the Engineer.

Existing businesses in work areas are to be provided with adequate entrances for vehicular and pedestrian traffic during business hours.















































