

## 102 Glossary of Terms

### 102.1 General

The following definitions used in the FDOT Design Manual (FDM) are assigned for consistency of understanding and interpretation of the processes and criteria contained within. These definitions may not be consistent with AASHTO, MUTCD, NCHRP, or other documents referenced in this manual. When definition of terms conflict with other FDOT manuals, use the definitions provided in this chapter.

### 102.2 FDM Definitions

#### ***Access Classification***

A classification of a roadway that determines the standards to apply to the design of medians, median openings, connections and signal spacing. See **FDM 201** for additional information.

#### ***AADT***

Annual Average Daily Traffic (AADT), is the total volume of vehicle traffic of a roadway for a year divided by 365 days.

#### ***Area Designation (Rural, Urban, Urbanized)***

***Rural:*** Places outside the boundaries of concentrated populations that accommodate higher speeds, longer trip lengths and freedom of movement, and are relatively free of street and highway networks.

***Urban:*** A geographic region comprising as a minimum the area inside the United States Bureau of the Census boundary of an urban place with a population of 5,000 or more persons, expanded to include adjacent developed areas as provided for by Federal Highway Administration (FHWA) regulations. The FHWA Urban Boundary maps are available online at:

<http://www.fdot.gov/roadway/BufferMaps/Default.shtm>

***Urbanized:*** A geographic region comprising as a minimum the area inside an urban place of 50,000 or more persons, as designated by the United States Bureau of the Census, expanded to include adjacent developed areas as provided for by Federal Highway Administration regulations. Urban areas with

a population of fewer than 50,000 persons which are located within the expanded boundary of an urbanized area are not separately recognized.

### ***As-Built Plans***

The Contract Plans after construction is completed, all revisions including those occurring during construction, have been included and with the title on the key sheet changed to Final Plans.

### ***Bicycle Way***

Any road, path or way which by law is open to bicycle travel, regardless of whether such facilities are signed and marked for the preferential use by bicyclists or are to be shared with other transportation modes. Examples include bicycle lanes, paved shoulders, shared use paths, and traffic lanes.

### ***C-D Road***

Collector-Distributor Roads are limited access roadways provided within a single interchange, or continuously through two or more interchanges on a freeway segment. They provide access to and from the freeway, and reduce and control the number of ingress and egress points on the through freeway. They are similar to continuous frontage roads except that access to abutting property is not permitted.

### ***Context Classification***

Description of the land use and transportation context where a roadway is found. Roadways are designed to match the characteristics and demands defined by the appropriate Context Classification criteria. See ***FDM 200*** for additional information.

### ***Control Vehicle***

An infrequent vehicle allowed to encroach into adjacent lanes, curbs, and sidewalks of intersections or driveways when making turning movements. Geometric design of intersections and driveways are based on the design vehicle.

### ***Conventional Project***

Projects for which the preparation of the contract documents is a 'stand-alone' effort resulting in Plans, Specifications and Estimates (PS&E) package that is advertised for a Construction Contract. These projects are often referred to as "design-bid-build" projects.

### ***Design Speed***

A principal design control that regulates the selection of many of the project standards and criteria used for design. There are three categories of design speed:

**High Speed:** Design Speeds 50 mph and greater.

**Low Speed:** Design Speeds of 45 mph and less.

**Very Low Speed:** Design Speeds 35 mph and less.

### ***Design Vehicle***

Vehicles with representative weight, dimensions, and operating characteristics used to establish highway design controls for accommodating vehicles of designated classes. The design vehicle is the largest frequent user of a given roadway; see **FDM 201.6**.

### ***Functional Classification***

The grouping of streets and highways into classes, or systems, according to the character of service they are intended to provide.

**Arterial:** Divided or undivided roadways that provide continuous routes which serve through traffic, high-traffic volumes, and long average trip lengths. Arterials include expressways without full control of access, US numbered highways and principal state roads that connect cities and towns. Arterials are further classified by context.

**Collector:** Divided or undivided roadway which serves to link arterials with local roads or major traffic generators. They serve as transition link between mobility needs and land use needs. Collectors may include minor state roads, major county roads, and major urban and suburban streets. Collectors on the SHS are further classified by context.

**Freeway:** The terms Freeway, Interstate, Toll Road, and Expressway are often used synonymously when establishing criteria within this manual. A Freeway is a divided highway that provides full control of access (i.e., Limited Access) and is intended for long distance trips. Interstate is a federally-funded network of freeways that must meet national design criteria and operational standards. Toll Road is a general term for any road that requires the user to pay to use all or a portion of the road. Expressways are freeways situated in major metropolitan areas with primary service for commuters; and may or may not be tolled. Movement of traffic, free of interference and conflicts, is of primary importance for these types of facilities. Essential elements include medians, grade separations, interchanges, and, in some cases, collector-distributor roads and frontage roads. Freeways may be further classified as rural, urban, or urbanized.

### ***Grade Separation***

A crossing of two roadways, or a roadway with a railroad or pedestrian pathway, at different levels.

## **Highway**

A highway is a high-speed roadway (divided or undivided) intended for travel between destinations like cities and towns.

## **Intersection**

Intersection types can be categorized by intersection basic type, functional classification, control type, area type, or a combination of these classifiers, depending on the element of design.

## **Lanes**

**Auxiliary Lane:** The designated widths of roadway pavement marked to separate speed change, turning, passing and weaving maneuvers from through traffic. They may also provide short capacity segments.

**Bicycle Lane:** A bicycle lane (bike lane) is a portion of a curbed roadway which has been designated by striping and special pavement markings for use by bicyclists.

**Express Lane:** An express lane is a type of managed travel lane physically separated from general use lanes, or general toll lanes, within a roadway corridor. Express lanes use dynamic pricing through electronic tolling in which toll amounts are set based on traffic conditions.

**General Use Lane:** Any untolled traffic lane that is not set aside for a specific purpose such as Express lanes.

**HOV Lane:** Special designated travel lanes reserved for high occupancy vehicles (HOV); e.g. buses and car pool vehicles. They may be adjacent to general use lanes or separated.

**Travel Lane:** A travel lane is the designated portion of a roadway intended to carry motorized through traffic. Generally, travel lanes equate to the basic number of lanes for a facility; e.g. 4-lane divided highway has 4 travel lanes.

**Traffic Lane:** The term traffic lane may be used synonymously with traveled way in this manual. See definition for traveled way.

## **Local Agency Funding Agreement (LFA)**

An agreement used when Local Agencies provide funds to the Department for a specific project, often that are not on the State Highway System. The conveyance of funds and

work to be accomplished are documented with a signed Local Agency Funding Agreement. The Agreement typically includes provisions for additional funding for contingency. These Agreements must be coordinated through the Comptroller's office and is covered by procedure locally funded agreements (non-PTO) – financial provisions and processing (**Topic Number: 350-020-300-n**).

### ***Local Road***

Roadways which provide high access to abutting property, low average traffic volumes, and short average trip lengths. Local roads may include minor county roads, minor urban and suburban subdivision streets, and graded or unimproved roads.

### ***Low Volume and High Volume***

Certain operating characteristics and driver expectancy on highways. Standards for these controls are based on area type and are given in **Table 102.1.1**.

**Table 102.1.1 AADT Thresholds for Low and High Volume Roadways**

Facility	Urban		Rural	
	Low Volume AADT	High Volume AADT	Low Volume AADT	High Volume AADT
<b>Freeway</b>				
4-Lane Facility	57,000	69,000	46,000	56,000
6-Lane Facility	86,000	103,000	69,000	83,000
8-Lane Facility	114,000	138,000	92,000	111,000
<b>Arterial</b>				
2-Lane Facility	16,000	20,000	9,000	14,000
4-Lane Facility	37,000	43,000	38,000	47,000
6-Lane Facility	55,000	64,000	58,000	71,000
8-Lane Facility	69,000	80,000	--	--
<b>Collector</b>				
2-Lane Facility	11,000	16,000	8,000	13,000
4-Lane Facility	37,000	45,000	30,000	38,000
<p><b>LOW VOLUME ROADWAYS:</b> Design Year AADT is <math>\leq</math> low volume AADTs shown.  <b>HIGH VOLUME ROADWAYS:</b> Design Year AADT is <math>\geq</math> high volume AADTs shown.</p>				

***Maintenance Agreement***

An agreement with a Local Agency for the maintenance responsibilities of a federally funded project. This agreement is required for construction projects let by FDOT for work not on the State Highway System and must be obtained prior to the authorization for construction of the project.

***Match Existing***

This term is used when the construction a proposed element (e.g. roadway, sidewalk, striping) may need to be adjusted at the termini to harmonize with the existing element being connected to. For Resurfacing Projects, this term is used when the existing

pavement cross slopes are not intentionally modified or changed; i.e. applicable to constant depth milling and resurfacing.

### ***Paratransit***

Comparable transportation service required by the American with Disabilities Act (ADA) for individuals with disabilities who are unable to use fixed route transportation systems. The specific requirements and parameters for this service, including eligibility and service requirements, are contained in 49 CFR Part 37, Subpart F.

### ***Pedestrian Access Route***

A continuous and unobstructed path of travel provided for individuals with disabilities within or coinciding with a pedestrian way.

### ***Pedestrian Way***

A space for pedestrian travel separated from traffic lanes. Sidewalks, shared use paths, footpaths and shoulders are pedestrian ways; however, footpaths and shoulders are not Pedestrian Access Routes, since they lack specific improvements or provisions to accommodate persons using mobility aids.

### ***Projects of Division Interest (PoDI)***

PoDIs are projects that have an elevated risk, contain elements of higher risk, or present a meaningful opportunity for FHWA involvement to enhance meeting program or project objectives. Project selection is risk-based. Stewardship and oversight activities will be directed toward addressing identified risks. This may include retaining certain project approvals, where permissible, or directing stewardship or oversight activities to a specific phrase or element of the project. Additional information is included in ***FDM 128***.

### ***Production Date***

The committed completion date for final plans (as described in ***FDM 301.2.5***) and Certifications (e.g., utilities, permits, R/W, environmental). Marks the date that the project is ready for the Plans, Specifications, and Estimates (PS&E) Submittal(s).

### ***Ramp***

A turning roadway that connects a Freeway to a crossing roadway within an interchange. The components of a ramp are a terminal at each leg and a connecting road. The geometry of the connecting road ramp usually involves some curvature and a grade.

### ***Roadway***

Roadways consist of prepared surfaces (asphalt or concrete pavement) for use by vehicles, including shoulders and adjacent bicycle lanes. A divided roadway provides a separation between opposing traffic lanes.

### ***Shoulder Break***

Point of intersection of the shoulder slope plane and the embankment or ditch slope plane; i.e. where the full-width shoulder slope of 0.05 or 0.06 “breaks” to a front slope of 1:X.

### ***Strategic Intermodal System (SIS)***

A transportation system comprised of facilities and services of statewide and interregional significance, including appropriate components of all modes. The highway component includes all designated SIS Highway Corridors, Emerging SIS Highway Corridors, SIS Intermodal Connectors, and Emerging SIS Highway Intermodal Connectors.

### ***Streets***

The local system which provides direct access to residential neighborhoods and business districts, connects these areas to the higher order road systems and offers the highest access to abutting property; sometimes deliberately discouraging through-traffic movement and high speeds.

### ***Traveled Way***

The traveled way is the portion of the roadway for the movement of vehicles, exclusive of shoulders and bicycle lanes. The traveled way includes travel lanes and auxiliary lanes.

### ***Truck Traffic***

Truck traffic is sometimes used as a qualifying control. Truck traffic is expressed as a percent of the AADT or daily count (24 hr.).