



### 3.11 Need Category: Pedestrian Safety

**Measure:** Utilization of roadway segments included in VDOT's Pedestrian Safety Action Plan (PSAP) Priority Corridors

**What it means:** Roadway areas that may require attention based on pedestrian safety factors

**Applicable VTrans Travel Market:** Statewide

#### Identification of Needs

- Data Sources:
  - VDOT Traffic Engineering, Geospatial database developed for PSAP
- Year of analysis: 2018, based on calendar year 2012–2016 crash data
- Period of analysis: all days, 24-hour days
- Calculations:
  1. Identify roadway segments included in VDOT PSAP Priority Corridors.



2. **Threshold for VTrans Mid-term Need for Pedestrian Safety:** Roadway segments included in PSAP Priority Corridors are identified as those with a VTrans Mid-term Need for Pedestrian Safety.



#### 4.2.10 Prioritization within Pedestrian Safety Need Category

**Applicable VTrans Travel Market:** Statewide

**Utilized for:** Establishing Construction District Priority Locations

##### **Severity of VTrans Mid-term Need for Roadway Safety**

- Source data:
  - Scores used to establish priority corridors within VDOT Pedestrian Safety Action Plan (PSAP)
- Calculations
  - Assign PSAP scores to roadway segments. If a segment has more than one PSAP score assigned, retain the maximum score.

##### **Magnitude of VTrans Mid-term Need for Pedestrian Safety**

- The PSAP score takes into account magnitude.

##### **Prioritizing within Pedestrian Safety Need Category**

Prioritization within this VTrans Mid-term Needs Category occurs in the following manner:

- Sort the Severity values in descending order and assign the following scores based on mileage<sup>1</sup> to develop VDOT Construction District-specific *Very High*, *High*, *Medium*, and *Low* categorizations for VTrans Mid-term Need for Pedestrian Safety.
  - *Very High* (Score 7): Top 5% of the total mileage
  - *High* (Score 6): 5.001%–10%
  - *High* (Score 5): 10.001%–15%
  - *Medium* (Score 4): 15.001%–20%
  - *Medium* (Score 3): 20.001%–25%
  - *Low* (Score 2): 25.001%–50%
  - *Low* (Score 1): Bottom 50.001%–100%

If VTrans Mid-term Need for Pedestrian Safety has fewer than 20 total miles of Needs in a VDOT Construction District, the following method is used:

- Sort the Severity values in descending order and assign the following values based on mileage:
  - *Very High* (Score 7): Top 0–5 miles
  - *High* (Score 6): 5.001–10 miles
  - *High* (Score 5): 10.001–15 miles
  - *Medium* (Score 4): 15.001–20 miles

<sup>1</sup> Where prioritization values do not break exactly at the percentile categories, assign all values to the higher category until there is a new prioritization value. For example, if the top 7% of roadway miles all have the same score, then 7% of miles would be classified as *Very High*.