# Developing VDOT's Bicycle and Pedestrian Treatments Website



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#### Introduction

- In November 2021, VDOT launched a "Bicycle and Pedestrian Treatments" webpage, which provides information on eighteen design treatments.
- While some treatments, such as bicycle lanes, are already somewhat commonplace, others may be more unfamiliar to Virginians.
- The treatments are organized into the following categories:
  - Pedestrian Crossing Treatments
  - Intersection Safety Treatments
  - Bicycle Facilities
  - Bicycle Treatments at Intersections

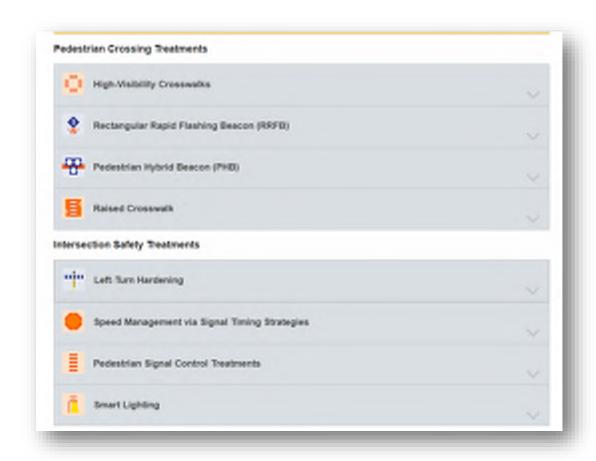
#### Inspiration

- Innovative Intersections and Interchanges webpage
  - Provides information on different types of innovative intersections and interchanges, locations where they are constructed or planned for construction in Virginia, and links to additional resources.



#### Inspiration

- We saw a need to publicize and provide examples of bicycle and pedestrian treatments that are potentially unfamiliar to several audiences:
  - Planners
  - Engineers
  - Decision makers
  - General public
  - Public affairs



#### Supporting Plans/Policies

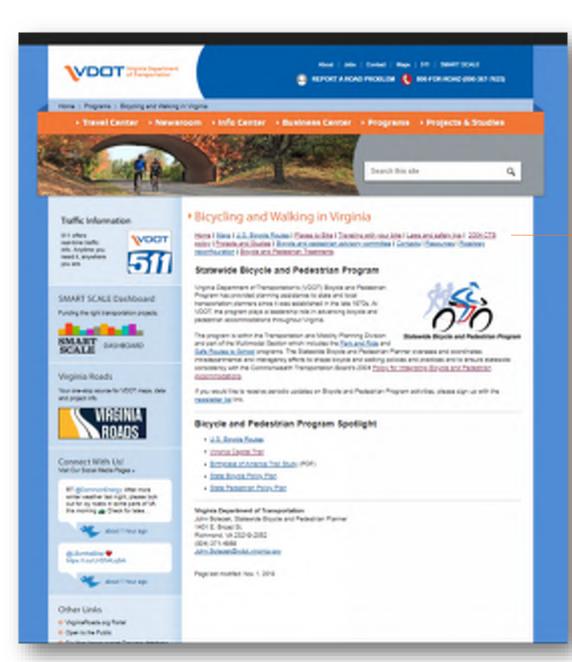
- VTRANS (Virginia's Transportation Plan) Goals and Objectives
  - Objective B.3: Increase the accessibility to jobs via transit, walking, and driving in metropolitan areas.
  - Objective C.2: Reduce the number of non-motorized fatalities and serious injuries
  - Objective E.3: Increase the number of trips traveled by active transportation (bicycling and walking)
- CTB Policy for Integrating Bicycle and Pedestrian Accommodations (2004)
  - A framework for VDOT to accommodate bicyclists and pedestrians in the planning, funding, design, construction, operation, and maintenance of Virginia's transportation network.



#### Supporting Plans/Policies

- 2022-2026 Arrive Alive Plan
  - Action: Provide outreach materials that are current and available from partners to advise and educate all road users on safe practices. This includes motorists when driving near and around pedestrians and bicyclists and facility use by bicyclists and pedestrians.
- VDOT Pedestrian Safety Action Plan (PSAP) (2018)
  - This plan identified and addressed locations with a history of pedestrian safety crashes and proactively addressed pedestrian crash risk through identifying priority corridors.





Bicycling and Walking in Virginia

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#### **Treatments**

- Pedestrian Crossing Treatments
  - High-Visibility Crosswalks
  - Rectangular Rapid Flashing Beacons (RRFB)
  - Pedestrian Hybrid Beacon (PHB)
  - Raised Crosswalk
- Intersection Safety Treatments
  - Left-Turn Hardening
  - Speed Management via Signal Timing Strategies
  - Pedestrian Signal Control Treatments
  - Smart Lighting

- Bicycle Facilities
  - Side Path
  - Shared Use Path
  - Traditional Bicycle Lane
  - Buffered Bicycle Lane
  - Separated Bicycle Lane
  - Contraflow Bicycle Lane
- Bicycle Treatments at Intersections
  - Green Pavement Markings
  - Bikes at Roundabouts
  - Bike Boxes & Two-Stage Left-Turn Box
  - Protected Intersection

Contraflow Bicycle Lane



Pedestrian Hybrid Beacon





<u>Treatment Animations YouTube Playlist</u>

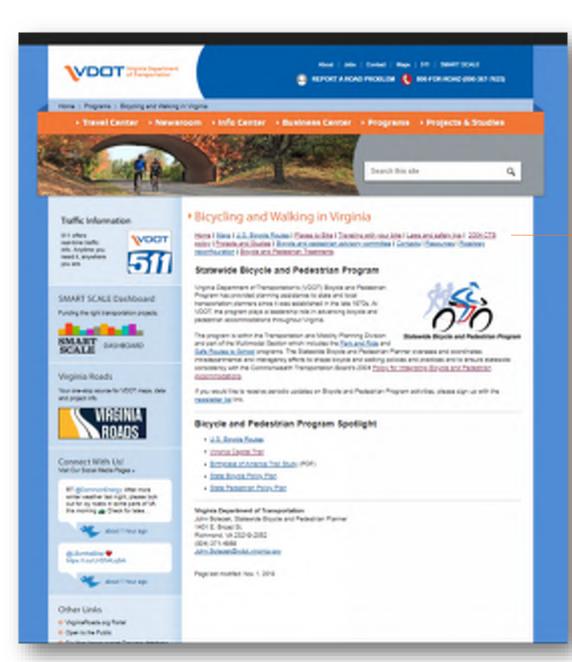
Protected Intersection





Left-Turn Hardening





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# Thank you! Questions?

