



OpenStreetMap US

Safe Routes to School

By Clifford Snow

What is SRTS

Safe Routes to School is an initiative that works to make it safe, convenient, and fun for children to walk and bicycle to and from schools. The goal is to get more children walking and bicycling to school, improve kids' safety, and increase health and physical activity.

Pedestrian Working Group

- **Sponsored by OpenStreetMap US, a local chapter of OSM**
- **Started February 23, 2024**
- **Focused on mapping sidewalks a separate ways**
- **Strongly influenced by the work of UW's Taskar Center for Accessible Technology**

What do Parents Need

- **Pedestrian maps**
- **Routing**
- **Walkability Isochrone**

How can OpenStreetMap Help

- **Map pedestrian ways**
- **Map streets for traffic calming features**
- **Detailed pedestrian and bike maps**
- **Provide pedestrian routing**
- **Provide isochrones walking areas**

Pedestrian Way

- **Mapping pedestrian ways**
 - Curbs
 - Sidewalks
 - Footpaths
 - Stairs
 - Crossings
 - Crossing islands
 - Tactile pads

Traffic Calming Features

"The primary purpose of traffic calming is to support the livability and vitality of residential and commercial areas through improvements in non-motorist safety, mobility, and comfort. These objectives are typically achieved by reducing vehicle speeds or volumes on a single street or a street network. Traffic calming measures consist of horizontal, vertical, lane narrowing, roadside, and other features that use self-enforcing physical or psycho-perception means to produce desired effects." Definition from US

Dept of Transportation

Traffic Calming Features

Speed Bumps



Chicane



Choker



Islands



Other Features needed for SRTS

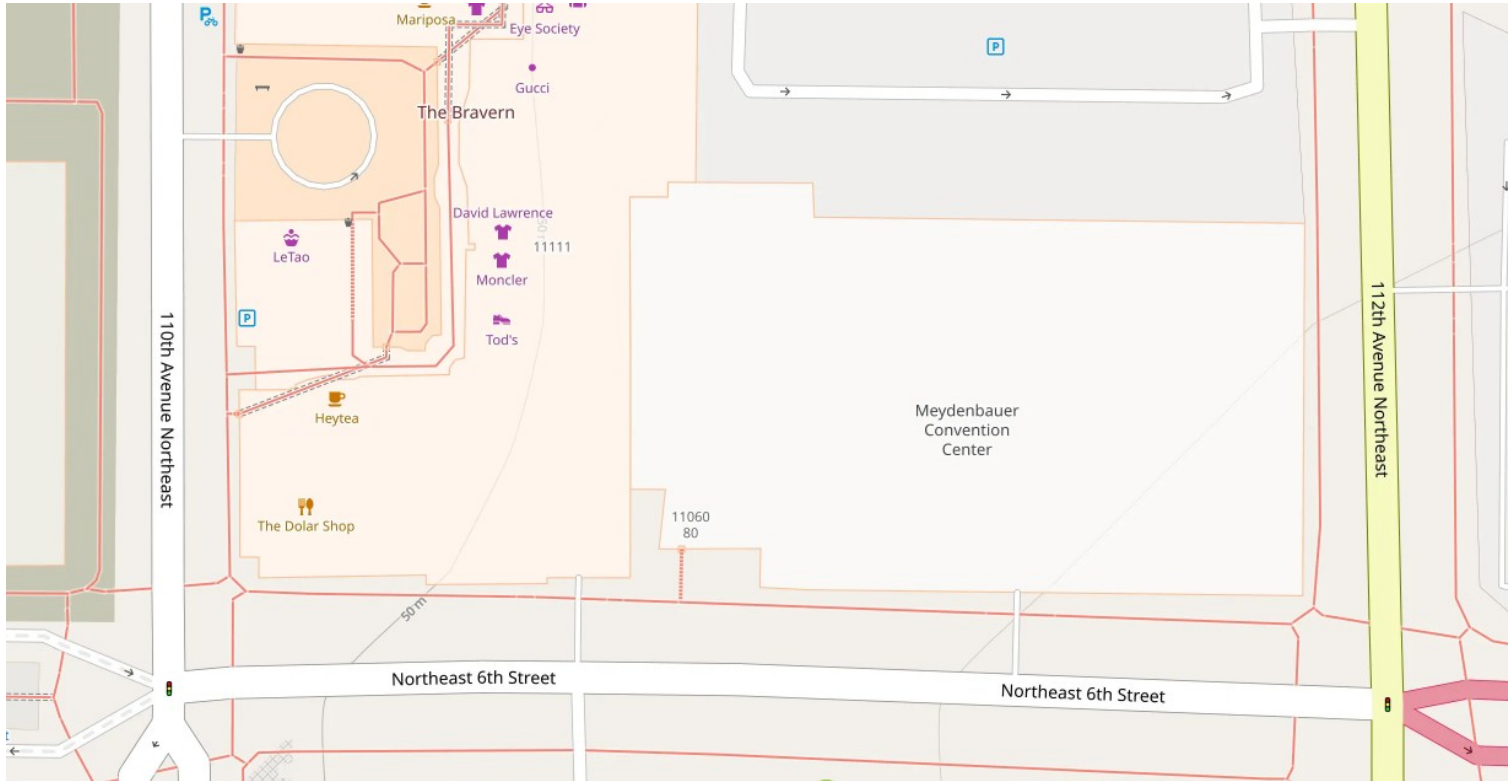
- Bike lanes
- Shared bike and car lanes
- Bike racks
- Entry points to Schools
- Railway Crossings
- Bridges

Next Steps

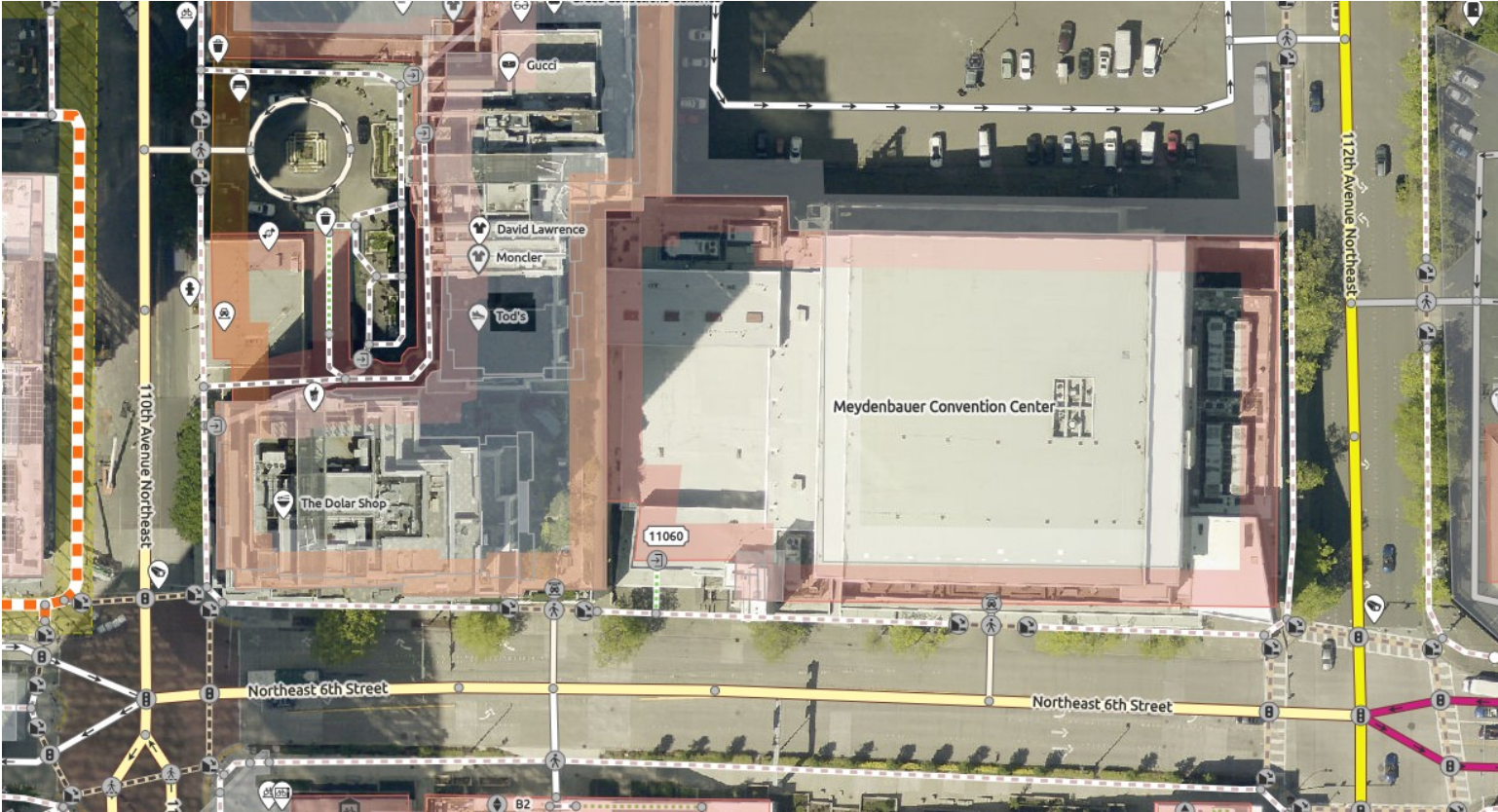
- **Pedestrian Map**

- Help contributors see what is and isn't mapped
- Help users see pedestrian infrastructure
- Help governments and user groups see what is needed to improve SRTS

Current Sidewalk Detail Insufficient



View in iD editor



Pedestrian Routing

- **OSM already has a number of routers suitable for pedestrians**
 - GraphHopper
 - OSRM
 - Valhala
- **Currently not adjustable for hills, steps, lack of curb ramps, etc.**

Why

- **By creating a network of sidewalks and crossings as well as bike lanes, pedestrians and bike riders and create a safe route to and from school.**
- **The route can be customized to avoid obstacles such as steep hills and steps or the lack of curb ramps for kids in wheelchairs.**

Ischrones



Marketing

- **Get the word out to SRTS group**
- **Invite government organizations**
- **Build SRTS mapping communities**

What does this mean for you

- **OSM hopes to support local SRTS groups with data to help them successfully convince local governments to improve pedestrian and bike safety for their children**

Some sources

- **Pedestrian Working Group** <https://openstreetmap.us/news/2024/02/pedestrian-working-group/>
- **UW Taskar Center** <https://tcat.cs.washington.edu/>
 - **AccessMap** <https://accessmap.app>
- **SRTS** <https://www.saferoutesinfo.org/>
- **WSDOT** <https://wsdot.wa.gov/business-wsdot/support-local-programs/funding-programs/safe-routes-school-program>
- WA Dept of Health
<https://doh.wa.gov/community-and-environment/schools/safe-routes-school>