

Sidewalk Accessibility Assessment with Daxbots

Small robots will help collect sidewalk accessibility information across the City of Pleasanton

This summer, The City of Pleasanton will survey it's public rights of way, one sidewalk at a time. Working with Bureau Veritas and Daxbot to collect accessibility information, The City will evaluate pedestrian facilities in public rights-of-way, Parks, Trails and public parking lots within the City limits. This work supports the City's ADA (Americans with Disabilities Act) Self-Evaluation and Transition Plan project, CIP 16437.

The Daxbot robots are designed for shared public environments. Data collection will be limited to information related to pedestrian infrastructure, and robots do not store personal information.

The robots move at walking speed along pedestrian pathways while collecting information on sidewalks and trails, curb ramps, signalized intersections, and transit stops. Using this technology also helps reduce the need for staff to gather the same information in or near traffic.

What this project included

Using robotic field-collection technology, the project team will document the existing conditions of pedestrian facilities to identify access barriers in the public right-of-way. This approach will produce a more detailed, consistent record of pedestrian infrastructure conditions and is expected to reduce time and costs compared with past traditional methods.

Field collection will be performed on approximately 360 miles of sidewalks and trails, 1,850 curb ramps, 125 signalized intersections, and 266 transit stops.



Why robots were used

The robots move at walking speed along pedestrian pathways while collecting information on sidewalks and trails, curb ramps, signalized intersections, and transit stops. Using this technology helps gather consistent data across a large area.

How this fits into the larger ADA plan

This sidewalk assessment is one part of the City of Pleasanton's ADA Self-Evaluation and Transition Plan. The broader effort reviews City-owned or City-managed facilities, programs, and public spaces to help identify barriers to access and support future improvements.

The full ADA evaluation includes sidewalks, trails, intersections, transit stops, parks, buildings, parking lots, and other public spaces under City responsibility. This work also helps support the City's eligibility for grant opportunities tied to accessibility improvements.

This assessment will give the City a clearer, more comprehensive picture of conditions across Pleasanton's pedestrian network. The information collected will help inform future planning and prioritization for accessibility improvements across public spaces that fall under City responsibility.

About Daxbot

Daxbot builds "good" robots for work in urban spaces. Its robots are designed to prioritize human safety, comfort, and privacy, helping cities, businesses, and project teams carry out fieldwork and other tasks more efficiently while keeping people at the center of the experience.

