

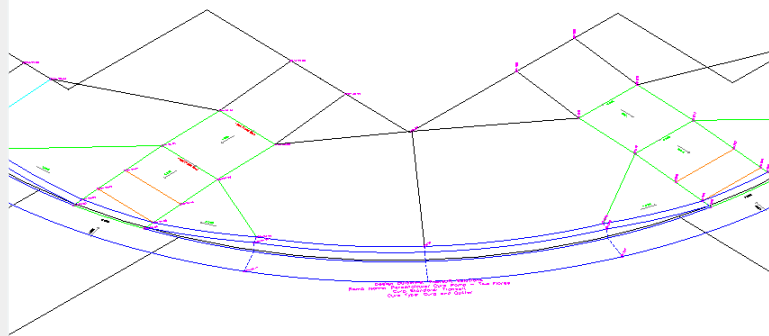


Curb Ramp Compliance in Minutes

3D design and retrofit software

3D Design and Retrofit Curb Ramp Within Design Parameters

Designing curb ramps presents a unique challenge, as each project site requires a customized approach to achieve the best possible outcome. Factors, such as surface conditions, slope, and other physical constraints, must all be meticulously considered. With countless sidewalk curb ramps needing to be retrofitted across North America, this overwhelming task demands significant time and resources to ensure pedestrian infrastructures are modernized to be accessible in compliance with design.



Ensure design compliance from the start

AQCESSRAMP™ revolutionizes the way curb ramps are designed by minimizing iteration cycles in the design process. Simply select your design guidelines and ramp design from our built-in templates and make any necessary adjustments with the convenience of instant notifications and compliance checks.

Generate the curb ramp geometry by applying default values, design conditions and standards from the policy makers to selected drawing elements. This tool incorporates the latest versions of design guidelines from all 50 US states plus FHWA, the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and the Public Right-of-Way Accessibility Guidelines (PROWAG) 2023, in addition to standard curb types from all 50 US State Departments of Transportation.



Save time with dynamic editing and automated calculations

Streamline your design with dynamic feedback, making each iteration nearly effortless. Geometry parameters are all linked, so modifications to any aspect or component of the ramp trigger automatic calculation updates and reflect onto the design instantly. During the editing process, the drag and drop grip points provide flexibility for quick on-the-fly edits, while the precision inputs ensure the accuracy you need.

The different grip points let you adjust the length of your ramp, landing length and curb ramp angle. You can also move the entire ramp along the sidewalk to find the most suitable location.



Optimize your design with superior control and flexibility

Enhance your design process with superior control and flexibility, allowing you to create optimal solutions tailored to your project's specific needs. Enjoy the flexibility of turning components on or off according to your needs. Whether you are working with single continuous geometry or multiple geometry elements, seamlessly generate curb ramps by selecting the geometry element(s) you need and placing it with the desired orientation by snapping it to reference geometry to automatically define its placement.

Effortlessly adjust the gutter counter slope between ramp sides, customize retaining wall height, and fine-tune vertical offsets to generate the curb ramp precisely as you envision.



Instant compliance notifications

With dynamic editing features and immediate feedback on ramp slopes, cross-slopes and elevations, engineers can produce optimal curb ramp designs efficiently. Instant notifications inform you whether you're adhering to your chosen design guidelines, or if there are any potential design errors and inconsistencies. Live feedback is provided when any calculated values fall outside the specified range.



For illustration purposes only

Designed in collaboration with Cities and State DOTs



Building your 3D model has never been easier

AQCESSRAMP can generate curb ramps using complex geometry elements that involve vertical information such as complex elements, feature lines, alignments, corridor models, etc.

Create a 3D digital terrain model of the curb ramp with just a few clicks. Easily integrate your 3D curb ramp model with your existing surfaces without the need of a CAD expert.



Reporting is a breeze

Generate geometrical summary, point coordinates with elevations, or station offset reports effortlessly with the reporting tool. With a simple click of a button, you can insert the report directly into the drawing, or save it as a .csv file viewable in any text editor.

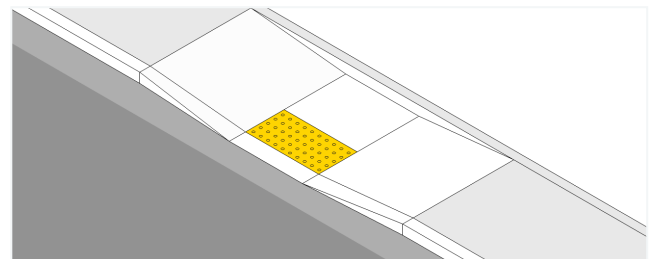
The following report types can be generated:

Geometric Summary Table: Outputs a table of the selected curb ramp's slopes, cross-slopes, and component dimensions.

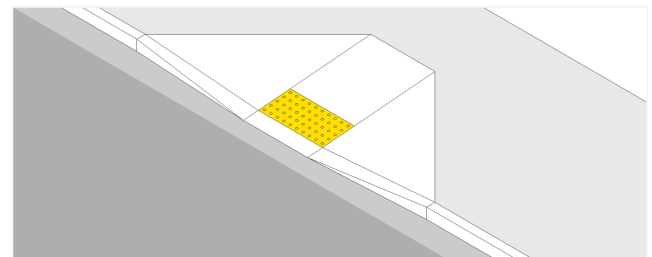
Point Coordinates Table: Outputs a table of the selected curb ramp's points and their x, y coordinates and optionally, their elevations.

Station Offsets Table: Outputs a table of the selected curb ramp's points and their distances from the first station of a chosen alignment.

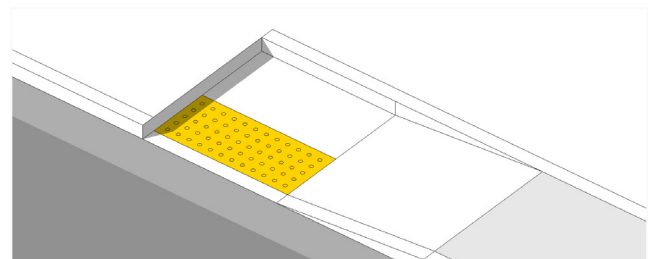
Parallel Ramp



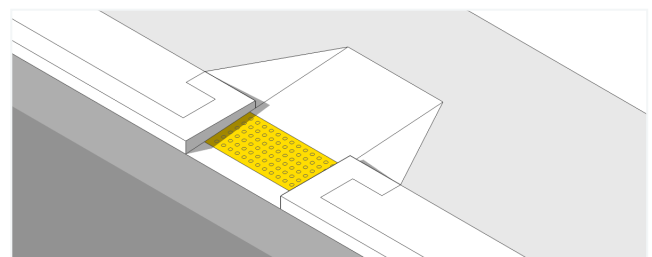
Perpendicular Ramp



Single Slide Parallel Ramp



Perpendicular Ramp with Plant Area

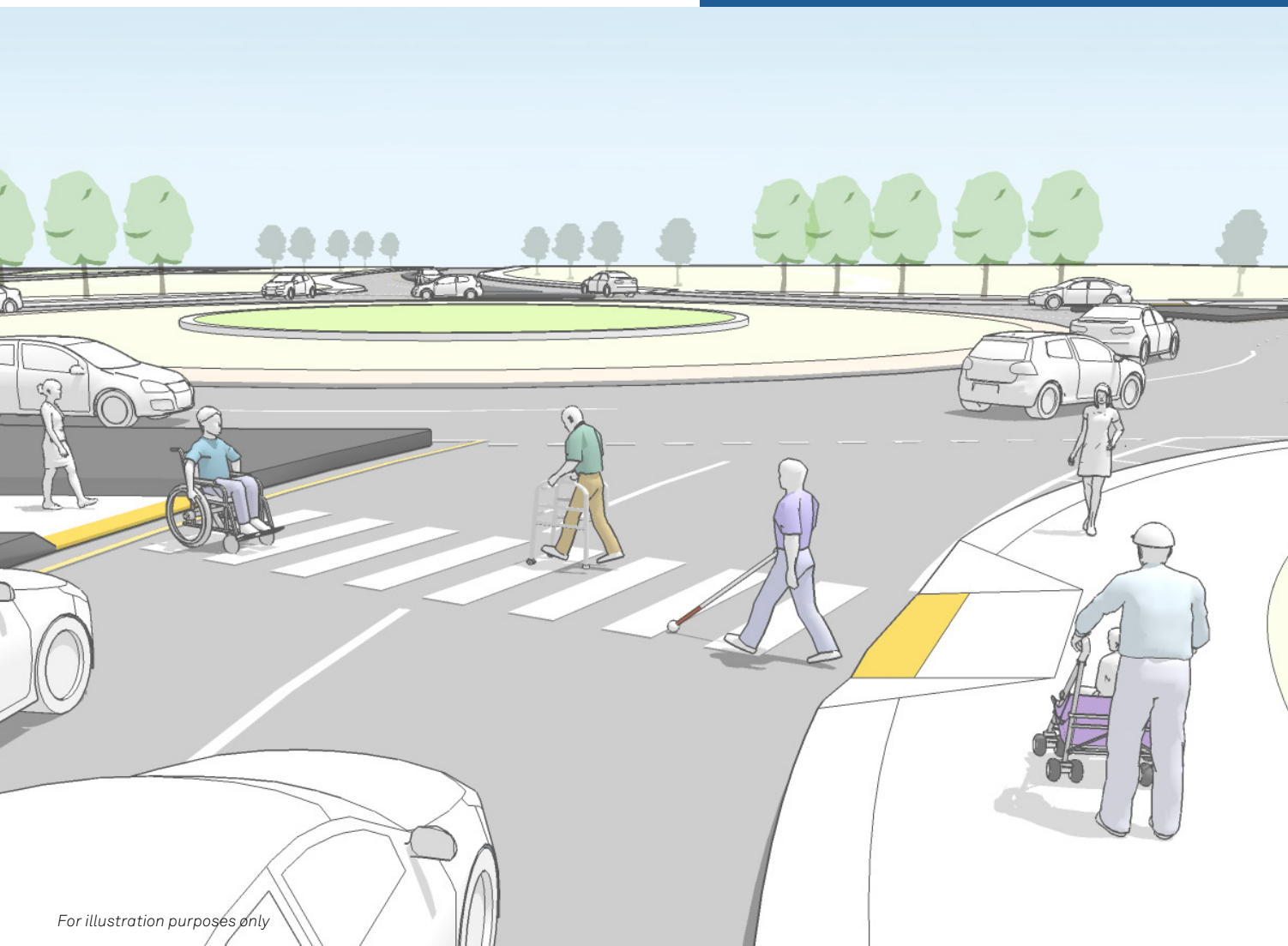


Platform & System Requirements

CAD Platform Compatibility
(64 bit, except Bentley V8i series):

This software is compatible with major CAD platforms, including Autodesk® AutoCAD®, Autodesk® Civil 3D®, Bentley® MicroStation® and Bentley® OpenRoads Designer.

For details on platform and system requirements, including the list of all supported versions, please visit the product compatibility page using the QR code below.



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