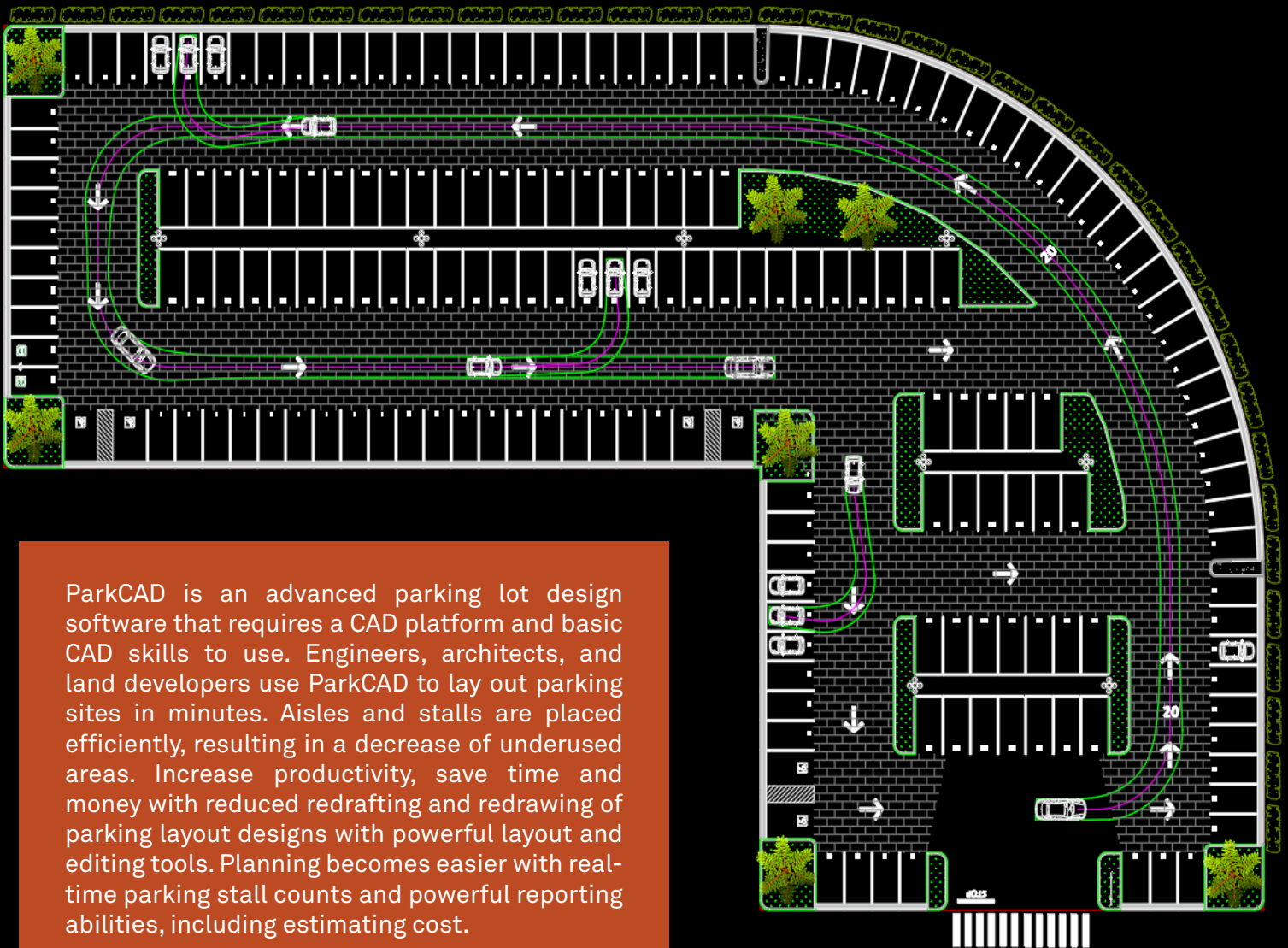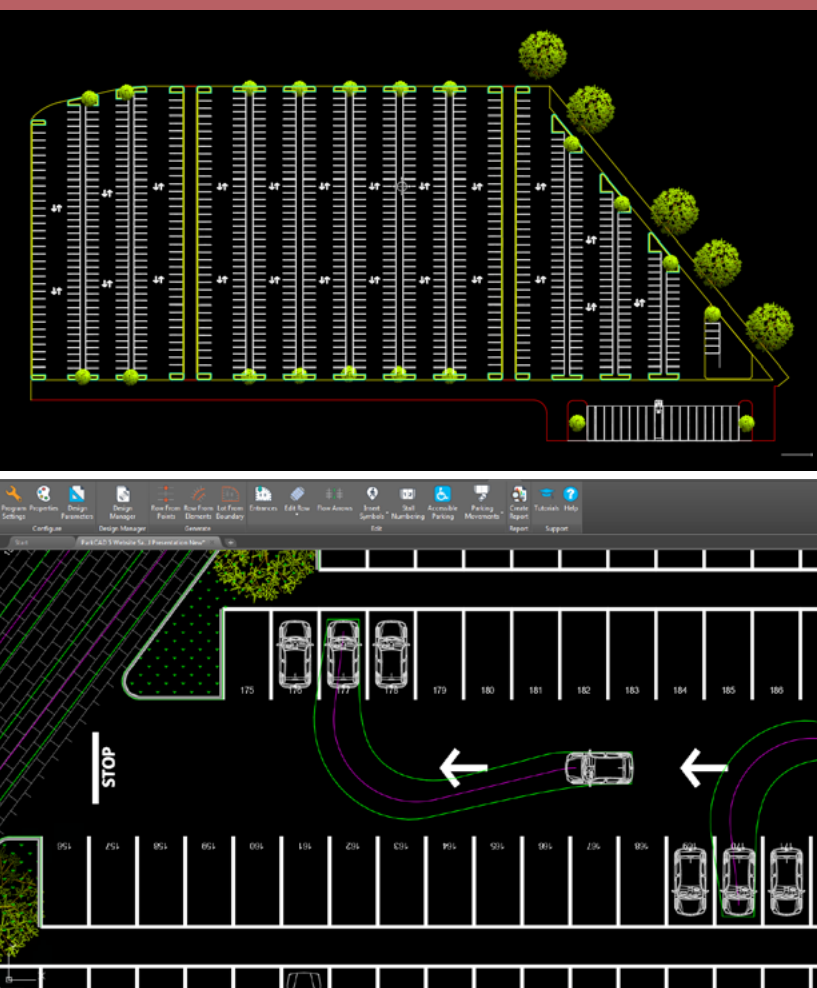# PARKCAD™

Powerful CAD Software for Designing Parking Sites

ParkCAD is an advanced parking lot design software that requires a CAD platform and basic CAD skills to use. Engineers, architects, and land developers use ParkCAD to lay out parking sites in minutes. Aisles and stalls are placed efficiently, resulting in a decrease of underused areas. Increase productivity, save time and money with reduced redrafting and redrawing of parking layout designs with powerful layout and editing tools. Planning becomes easier with real-time parking stall counts and powerful reporting abilities, including estimating cost.

TRANSOFT SOLUTIONS™

Get instant feedback when designing and making edits to all types of parking layouts. Parking layouts can be completed in a few minutes using ParkCAD. Use powerful parking design tools to select a defined area to automatically create parking lots that conform to regional design criteria.

BENEFITS AND SOLUTIONS

Top: Design lots of any size and shape for passenger and commercial vehicle parking.
Bottom: Visualize vehicle movements and present your ideas.

ParkCAD can be used on a variety of different-sized parking lots from different jurisdictions. It is most effective in the conceptual phase of parking design.

THE COMPLETE PARKING DESIGN SOLUTION FOR DESIGNING AND EDITING

Multiple Parking Standards

Regional design guidelines ensure conformity to regulations. For North America, design standards include Institute of Transportation Engineers (ITE), American Institute of Architects (AIA), Urban Land Institute (ULI), and regional standards for over 20 jurisdictions from around the world. Custom Standards can be easily made, saved and shared to conform to local parking regulations.

Efficient Land Use

Select your parking boundary and let the software optimize which row layout and rotation produces the maximum number of parking spaces. Choose from a list of different possible solutions suggested by the software. Save and compare various iterations and develop the best layout option for detailed design.

Use Current CAD Platform

Designers can use their current CAD platform without the need to convert file types or upload files to an external server. ParkCAD is available on AutoCAD, Microstation, and BricsCAD, making it a versatile parking design solution for every engineer.
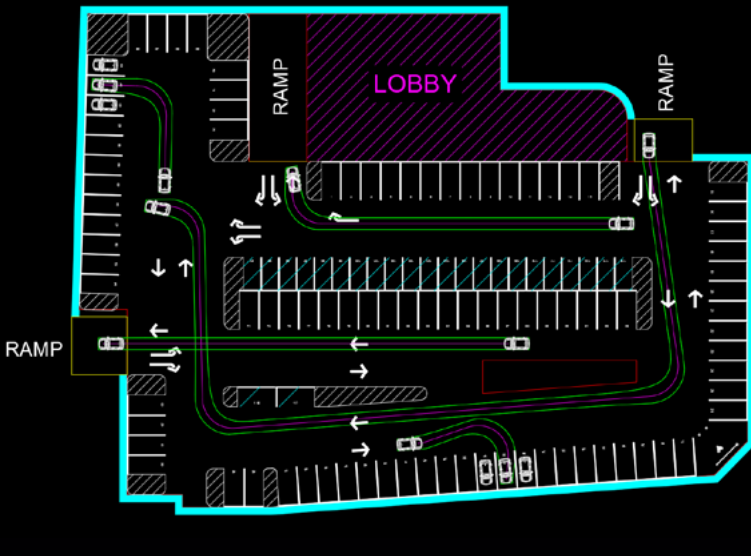
Increased Productivity

Be more productive by reducing drafting time, especially when it comes to modifications, and focus more on engineering decision-making.
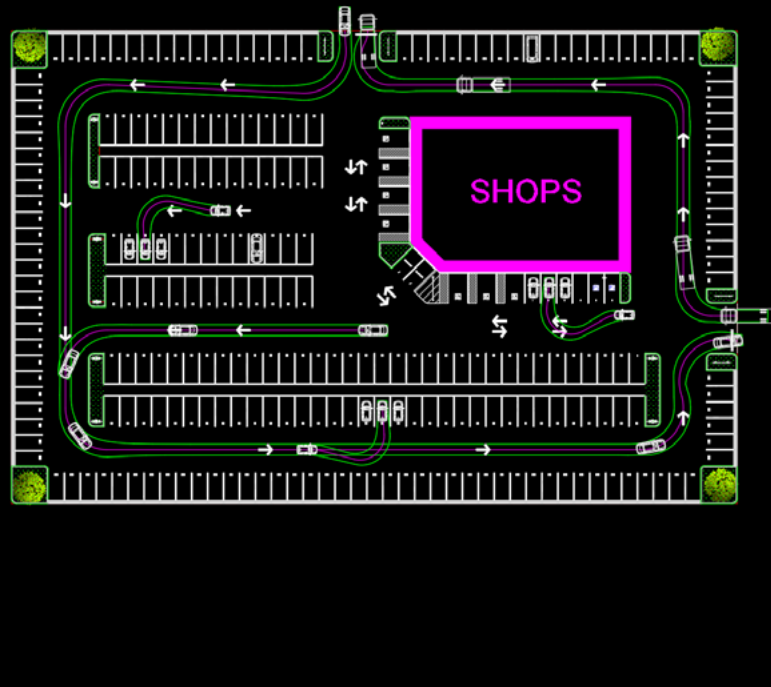
Tools to Consider Traffic Flow

You can now add traffic flow arrows with ParkCAD 5.0 to determine the direction of vehicle movement for either one-way or two-way traffic. Use the arrows to visualize vehicle movement within the parking lot.

DESIGN WITH CONFIDENCE

TRANSOFT SOLUTIONS

Parking design for different types of projects.

Improved presentation.

TAKE A CLOSER LOOK AT THE KEY FEATURES IN PARKCAD

Set-Up

- Draw the boundaries of the parking areas with CAD tools and place them on correct layers/levels for use by ParkCAD. Colors and layers can be customized in ParkCAD or use the default settings.
- Easily choose between default settings or set your desired dimension and size of stalls, islands, aisles, and symbols.
- The software uses guidelines to ensure conformity to regulations in many different jurisdictions.
- Designers can now save, update, and load multiple design iterations of a parking layout in a single drawing.
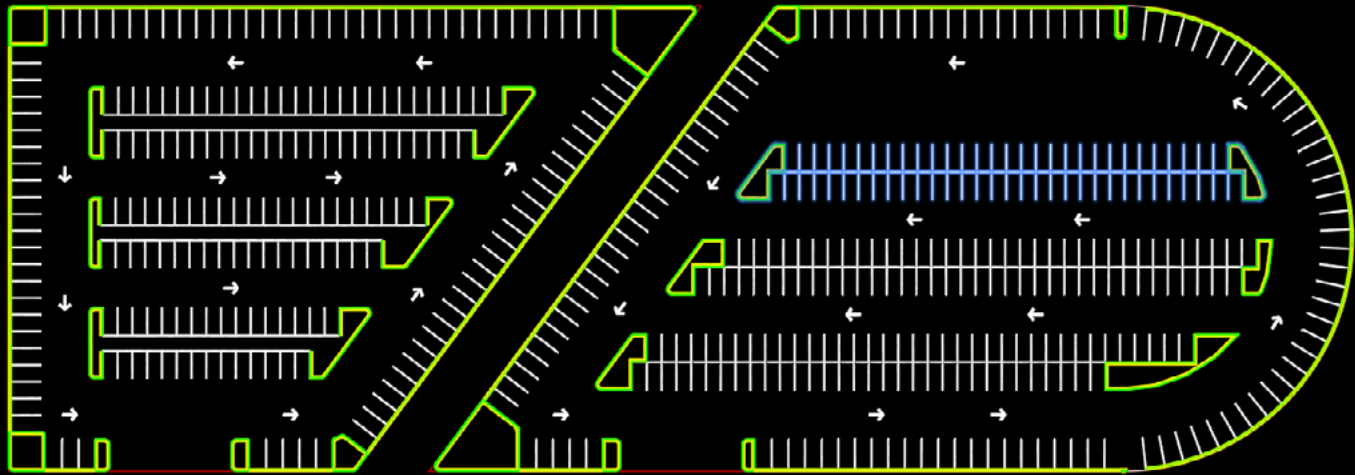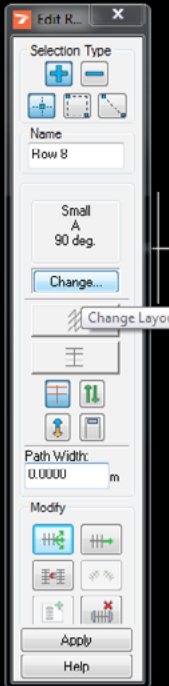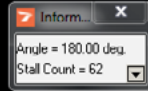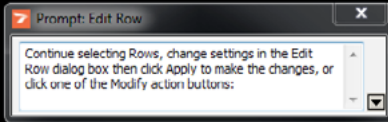
Parking Design

- Take seconds, not hours, to lay out parking rows and aisles using ParkCAD. Individual rows can also be made point-to-point or by using pre-drafted CAD objects, such as lines, curves, polylines, or complex chains.
- Create more complex parking layouts using parking lot boundaries that include lines and curves for creating rows and aisles.
- Place parking around other objects such as buildings or roadways by defining the outer parking boundary and selecting one or more areas where parking is excluded.
- Let the software determine which row layout and rotation produces the maximum number of parking spaces within a parking boundary.

- Add accessible parking based on your region's guidelines. Receive up-to-date reports ensuring regulations are met.
- Consider traffic flow to create efficient parking lot movements with one-way or two-way traffic.

Parking Editing

- Use ParkCAD's powerful editing tools to reduce time spent editing parking layouts. Designers can resize lots to meet adjusted boundaries while keeping previous edits. Row length can be adjusted by dragging end points and stall sizes and angles can be changed.
- Designers can leave room for landscaped areas by removing oversized drive aisles and by minimizing the area of paved surfaces. Users can also update the lot's perimeter boundaries and reduce the parking site footprint.
- Increase safety and improve aesthetics by distributing underused aisle space with centre walkways or landscaped areas between parking rows.
- Create custom parking stalls, such as valet parking, police, taxi/bus stands, shopping cart pick-up/drop-off, or use any customized symbol. Custom stalls are reported separately.
- Parking islands can be classified as concrete, landscape, or painted. ParkCAD can apply curbs and hatches to custom or standard islands.
- Present attractive presentations using realistic paint line widths, arrows, symbols, curbs, and patterns from an extensive library of CAD blocks and hatches.

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Editing Tools.

Reporting

- Calculate the percentage of accessible parking stalls by selecting groups of parking rows and lots.
- All ParkCAD objects in the layout such as lengths, areas, and quantities, can be calculated and reported.
- Estimate construction costs of the designed parking arrangement by assigning unit costs to the 2D entities.
- Parking lot professionals can now visualize vehicle movement with ParkCAD. See vehicles enter, circulate around aisles, access parking stalls, and exit the parking lot.

ABOUT TRANSOFT SOLUTIONS

HEAD OFFICE — *North America*

Transoft Solutions, Inc. develops innovative and easy to use software for transportation professionals. Since 1991, civil engineers and technologists, architects, and city planners across federal agencies, state DOTs, airport authorities, cities, ports, and infrastructure consultants have come to rely on Transoft's field researched design solutions.

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