Civil Solutions 2026.1

Design with Confidence Build with Precision

Plateia by CGS Labs

Ferrovia by CGS Labs

Aquaterra by CGS Labs

Autopath by CGS Labs

Autosign by CGS Labs

CGSLABS

Solutions 2026.1 | ROAD

Plateia by CGS Labs

Autopath by CGS Labs

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CGSLABS
A Transoft Solutions company

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Content:

1. Supported CAD platforms

CGS Labs Civil Solutions 2026.1 is now compatible with the new BricsCAD V26, as well as the latest versions of Autodesk AutoCAD & Civil 3D 2026.

With CGSLABS 2026.1 Civil Solutions, support for CAD platforms now includes the following CAD platforms:

Autodesk AutoCAD/Civil 3D	BricsCAD
2026	V26
2025	V25
2024	V24
2023	V23
2022	
2021	
2020	

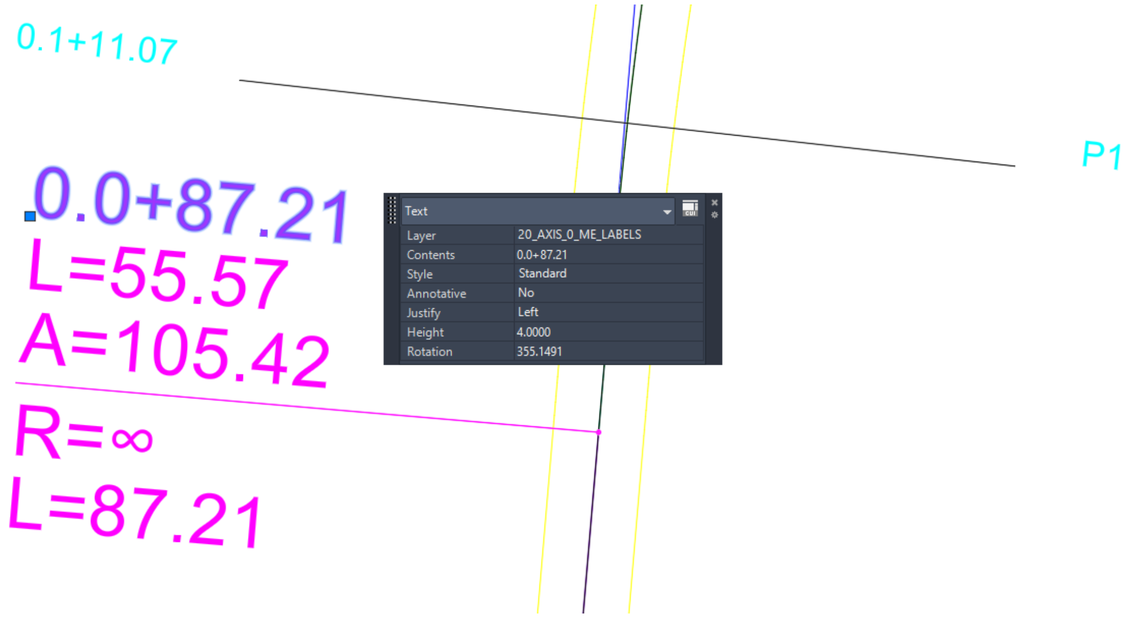
CGSLABS 2026.1 Civil Solutions is a minor version upgrade. Users can install the latest CGSLABS 2026.1 Civil Solutions on CGS Labs 2026.0 version and alongside with previous CGS Labs versions (e.g. 2025, 2024 or older).

2. PLATEIA

2.1. ENHANCEMENTS

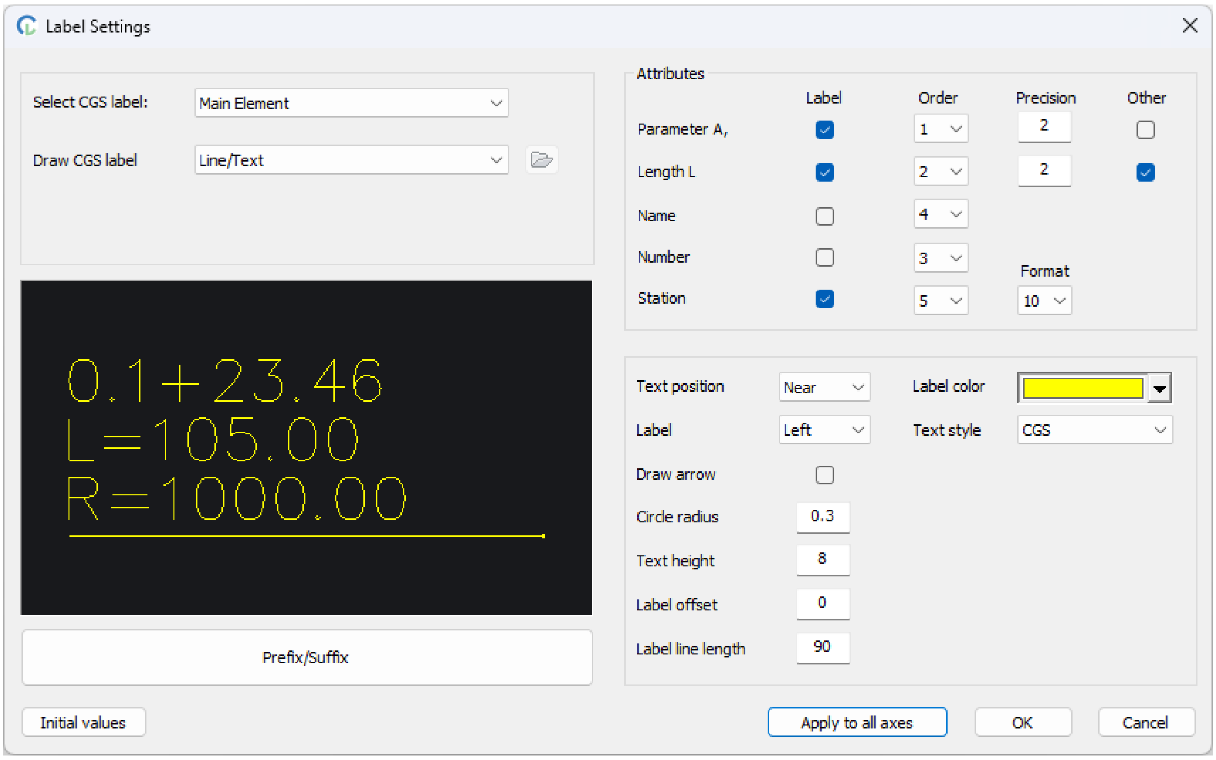
21A7 – Main Elements and Sample Lines Label Settings

The CGS labeling functionality has been enhanced with the reintroduction of an option to draw labels as text and line objects, not only as blocks. A new, more intuitive interface for modifying label settings has also been implemented. This interface includes a dynamic preview, tooltips, and provides easy access to all adjustable parameters for each label type. Currently, these improvements apply to Main Elements and Sample Lines labels. Additional settings have been added as well, such as label color, text style, text justification, and rotation.

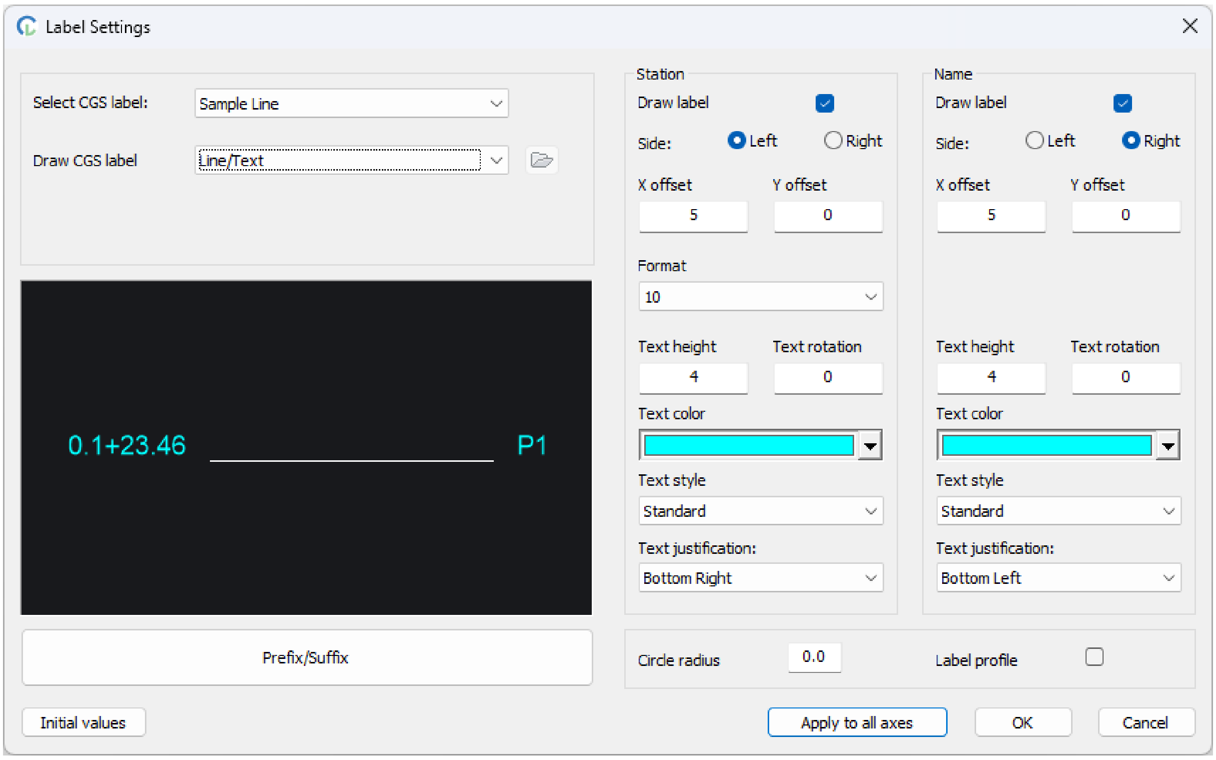


Internal changes have been made to store label settings independently for each alignment. This allows every alignment in the plan to maintain its own configuration—such as label colors, text heights, and other parameters—unlike previous versions.

Main Element Label Settings:



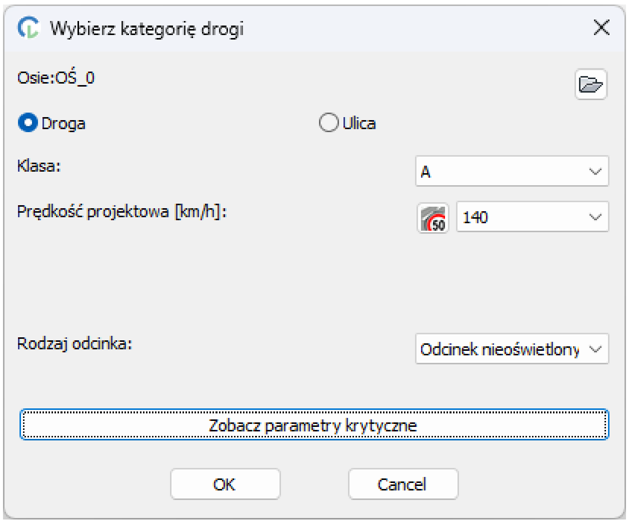
Sample Line Label Settings:

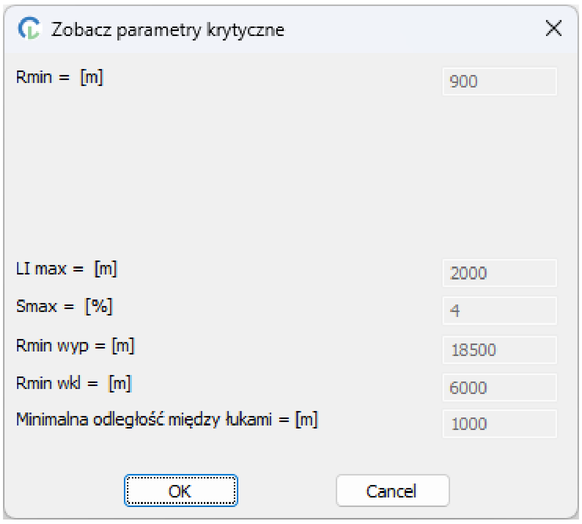


Plateia – Polish Standard Update

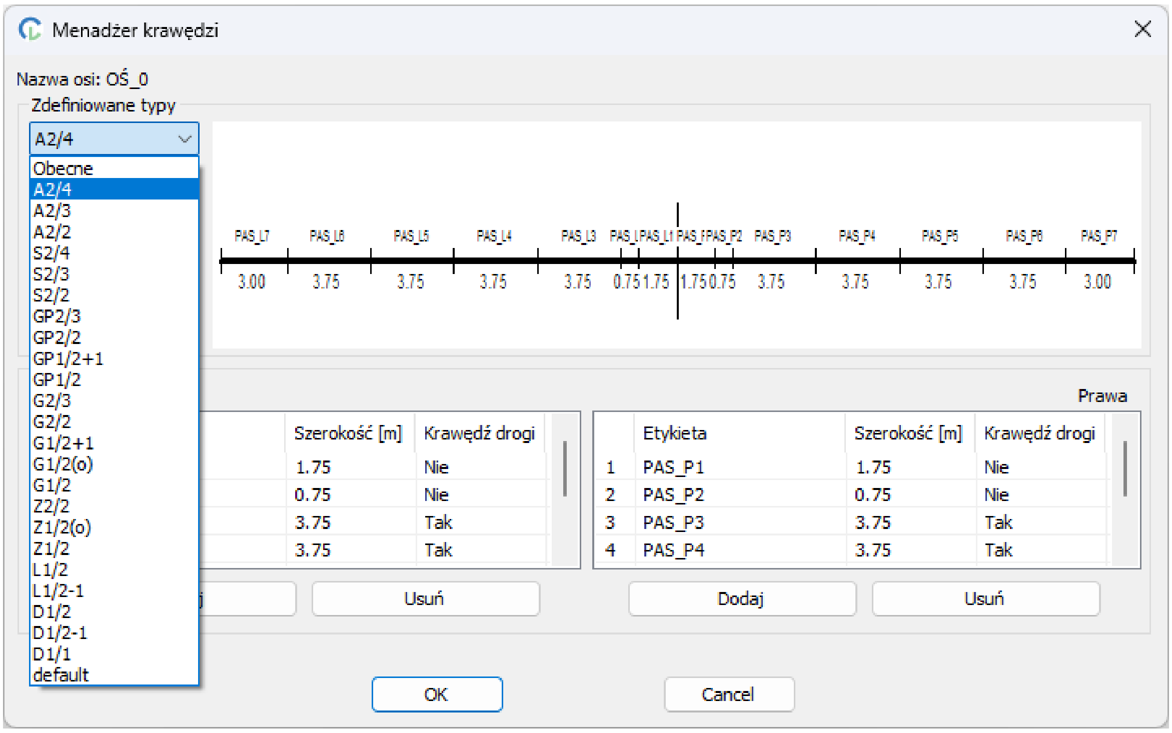
CGS now supports the latest Polish roadway design standards and guidelines (Dz.U. 2022 poz. 1518 and WR-D - Wytyczne projektowania odcinków dróg zamiejskich). Updates include adjustments to road categories, design speeds, minimum and maximum curve values, widening calculations, and other related parameters.

Updated road categories, design speeds and critical parameters:

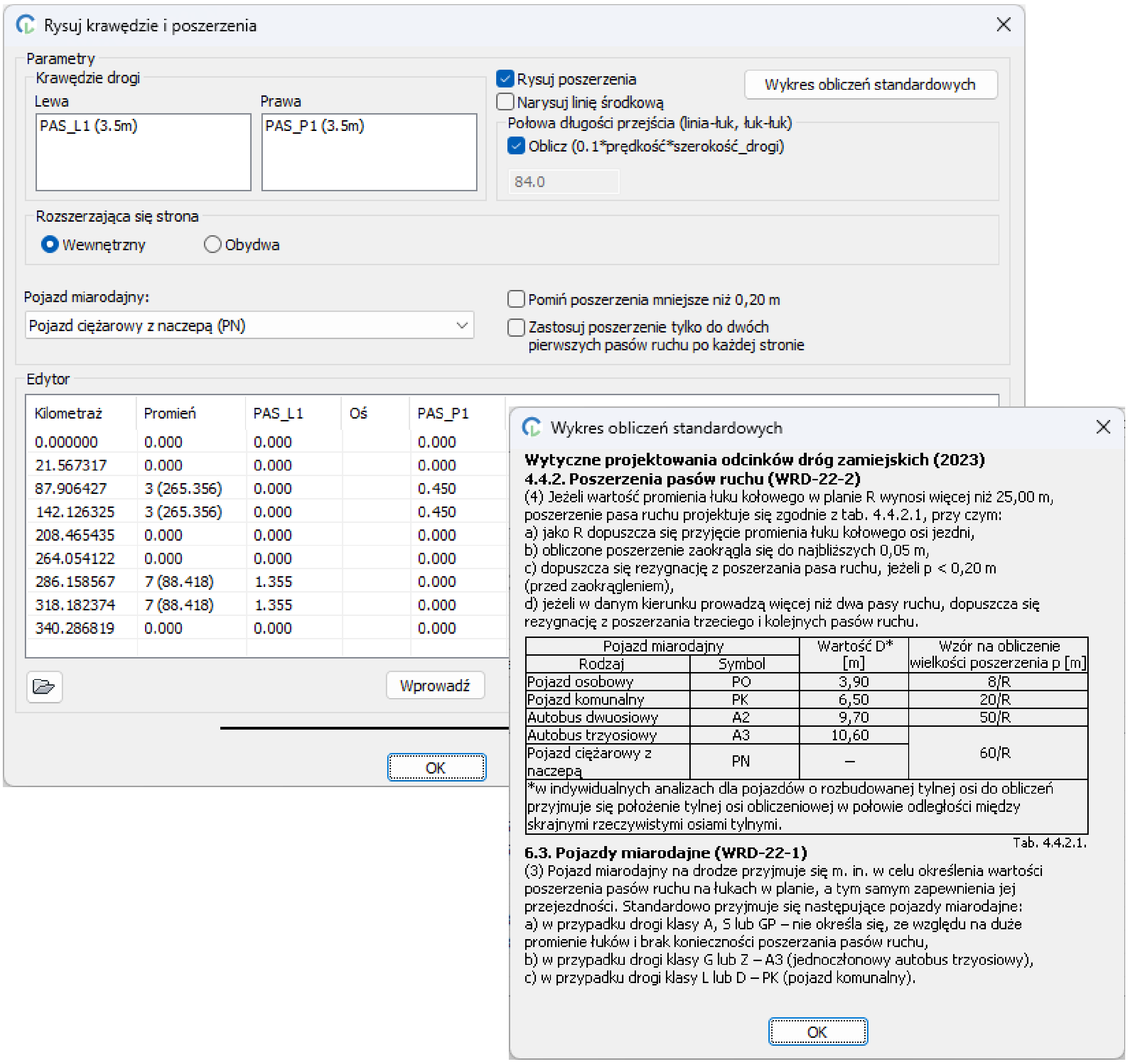




Updated lane definitions:



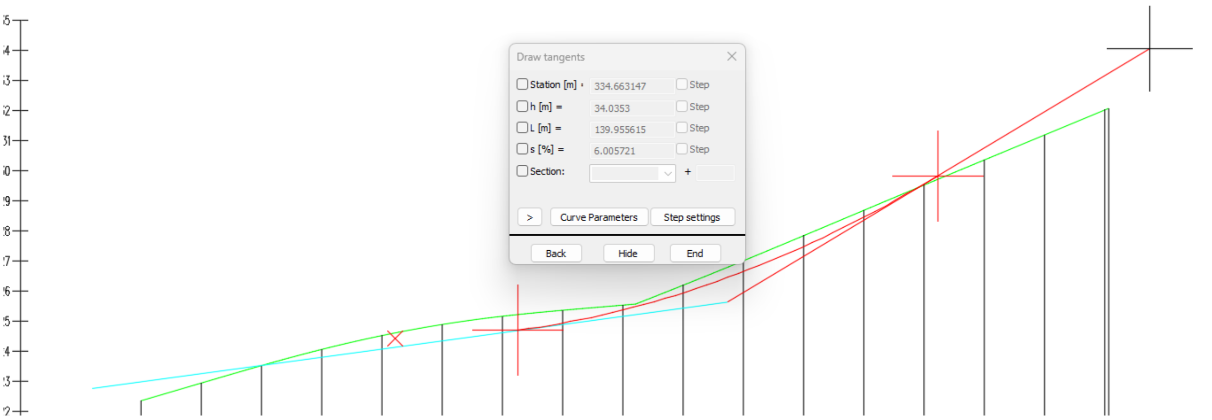
Updated curve widening calculation:



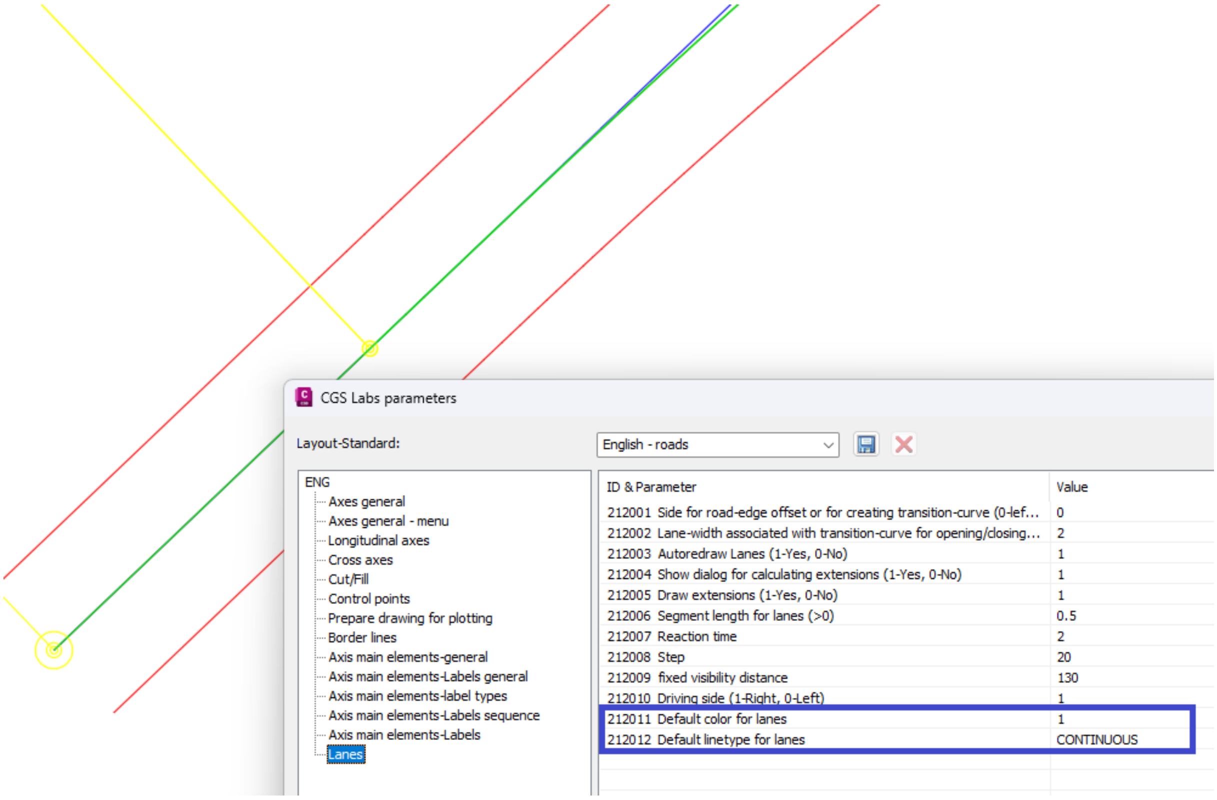
Some documentation for the Polish roadway standards is now included within the CGS installation. This primarily covers the guidelines used for the implementation (e.g., WR-D 22-2 for roadway geometry) and also includes a link to the official source.

In addition to the updates for the Polish version of Plateia, two enhancements have been introduced for all versions:

- When drawing a profile line in the longitudinal section, the design line is now validated against critical parameters dynamically during drawing, not only after confirmation.

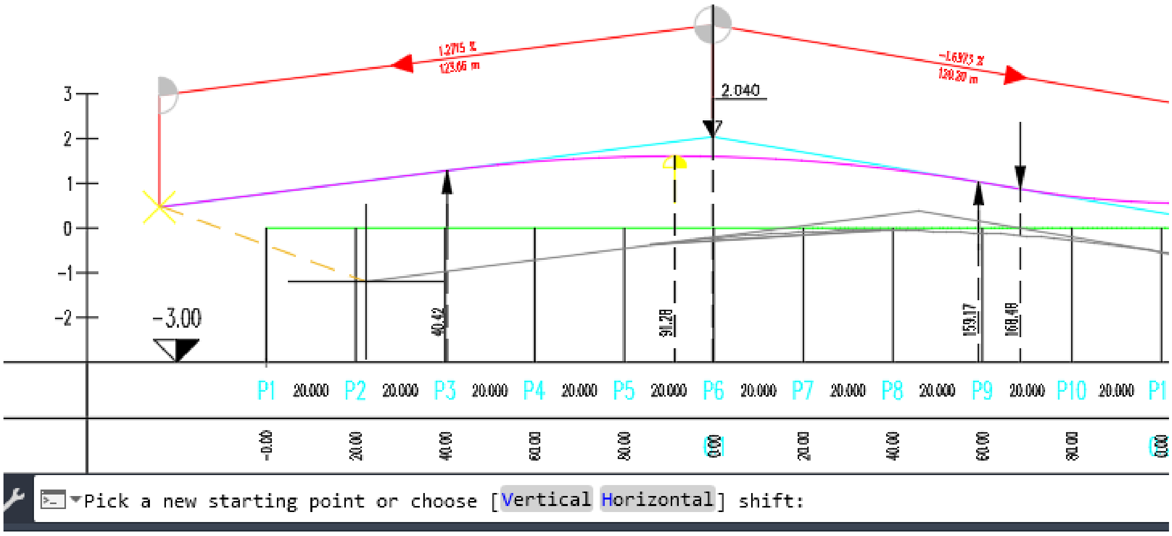


- New settings for lane colors and linetypes have been added.

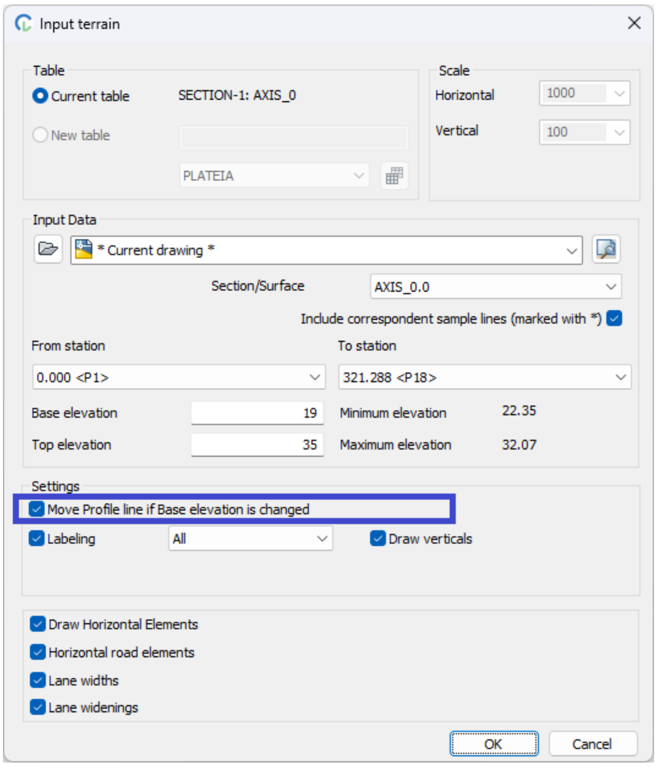


31H7 – Profile Line Vertical / Horizontal Shift

The functionality for moving profile line tangents (31H7) has been improved. It is now possible to shift the entire profile line horizontally or vertically. This is useful when the base elevation of the Profile View is modified, or when the horizontal alignment is changed or extended. The new functionality allows tangents and curves to be moved to any start location, or shifted horizontally or vertically by selecting a point or specifying an offset value.

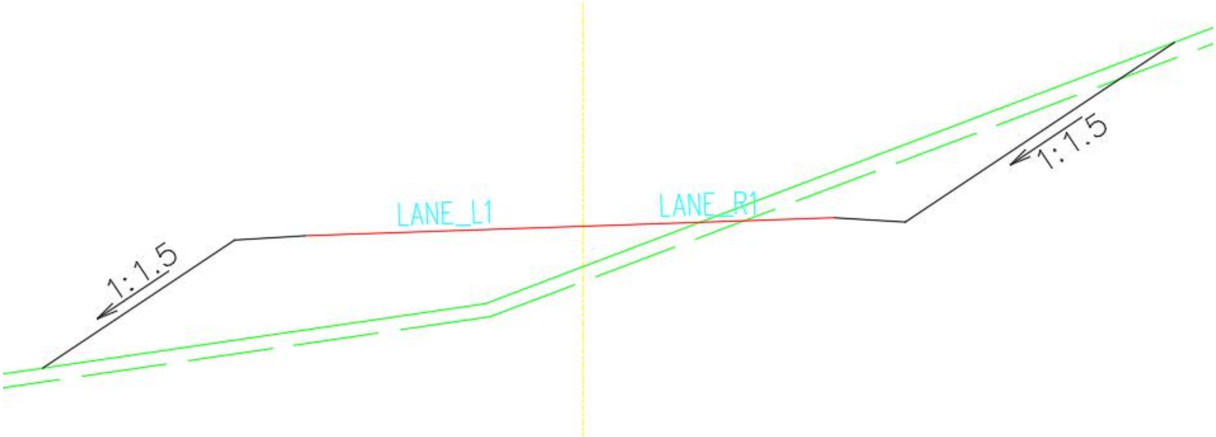


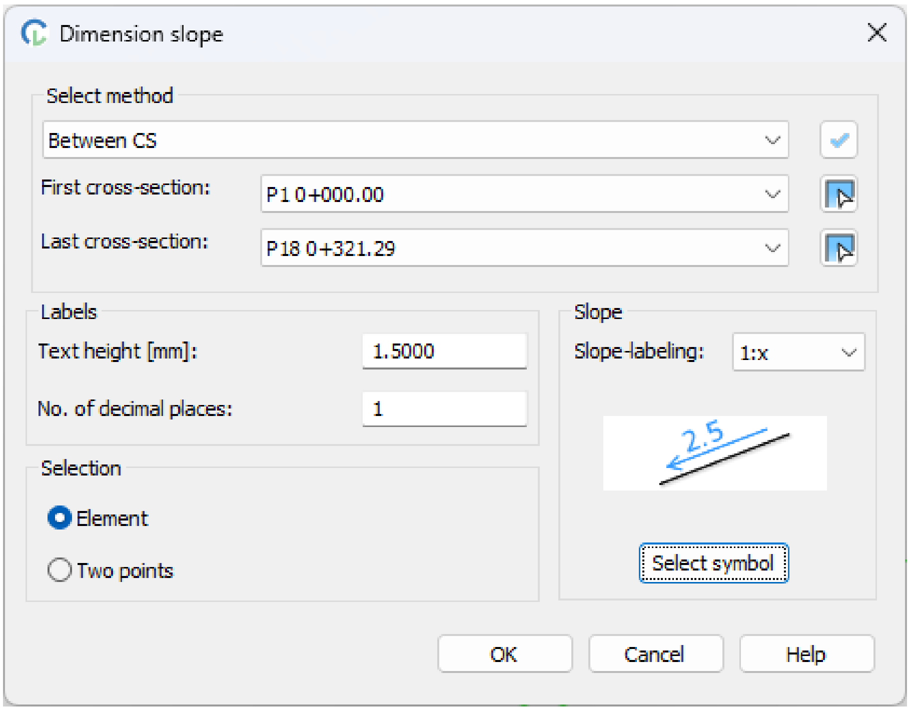
In addition, when using the 31D1 command, this behavior is now the default. If a Profile View already exists for the active alignment and the base elevation is changed, the profile line will shift accordingly.

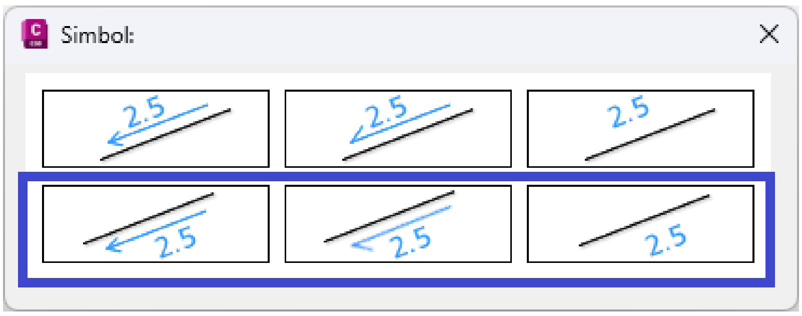


41J1 – Additional Slope Symbols Positions

You can now place slope labels below elements in cross sections. Previously, slope labels could only be positioned above. Based on user requests, this update adds three new options for placing slope symbols beneath elements.





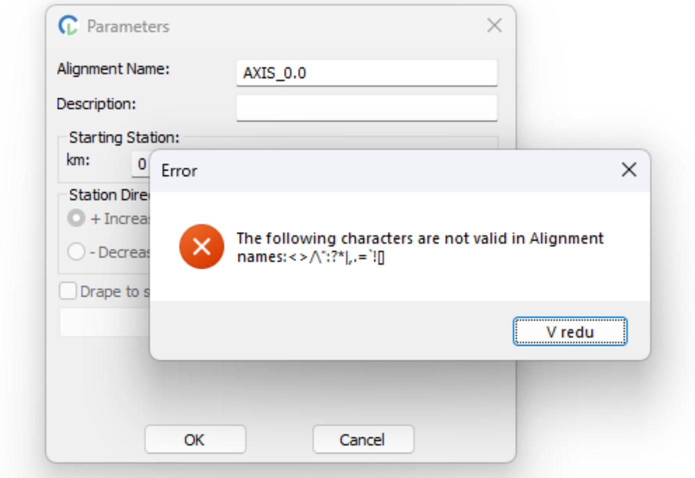


2.2. CHANGES

21C – Dot Character in Alignment Name No Longer Allowed

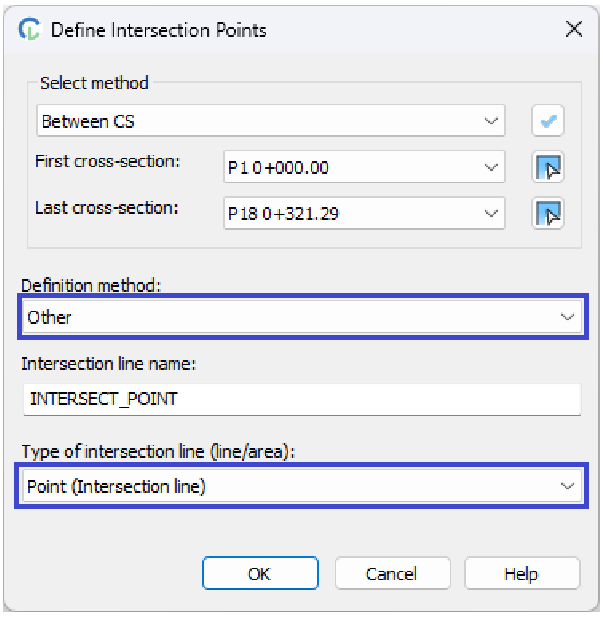
In previous versions, it was possible to include a dot (“.”) character in the alignment name when using the Alignment Manager (21C). However, using a dot caused issues in other functions — for example, when drawing the Profile View (31D1), certain operations failed or produced incorrect results.

This issue has now been resolved. The use of a dot and other special characters in alignment names is no longer allowed. When attempting to enter a name containing this character, the user is notified with a warning message.



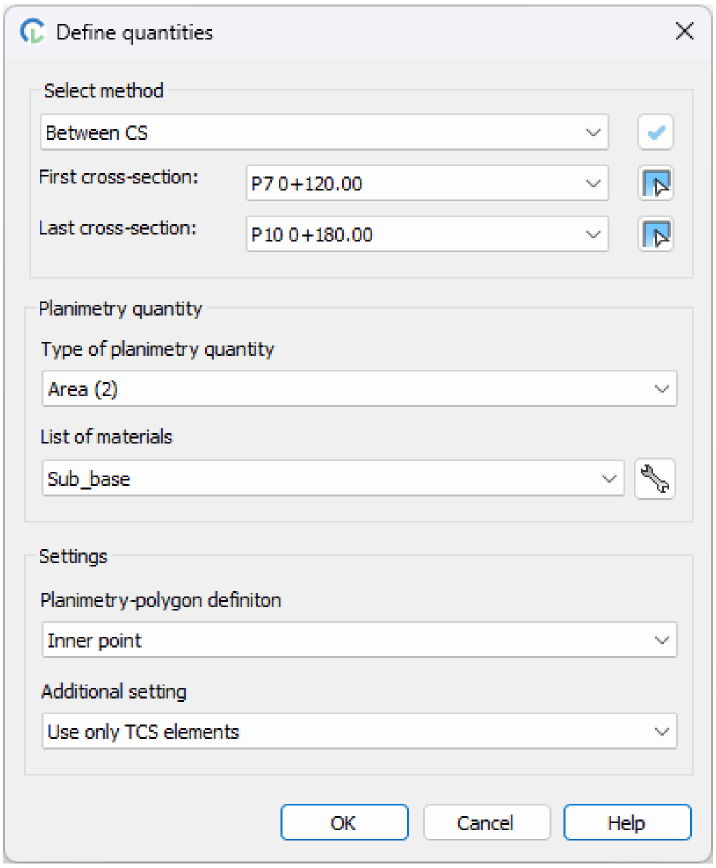
41K1 – Default Option for Intersection Points

The most commonly used option for drawing intersection points in cross sections is to place them as user-defined at a single point or location. This configuration is now set as the default.



41M1 – Selected Options Are No Longer Reset

Previously, when using 41M1 to define planimetry settings, options had to be selected in order from top to bottom. Selecting items out of order—for example, profiles at the end—would reset previously chosen options. This behavior has now been corrected.



2.3. FIXES

CGS UI – Resolved Multiple Issues With Screen Scale Resolution

There were several dialogs and texts which didn't scale well with the Windows resolution scale. If the user used 125, 150%, 200% (or other) scaling, the text within the dialogs was hardly visible. This has now been resolved for a few commands such as: Planimetry quantities (41M3), Property Manager and Property Set Editor.

CGS – Performance improvement of certain functions

Some functions previously checked whether the user had requested to interrupt the loading process using the ESC key. This check, in certain cases, caused a noticeable slowdown in data loading within the function. Since this feature was not necessary and was not used in practice, it has been removed.

This change results in faster performance of functions related to terrain reading when creating the longitudinal profile (31D1) and its refreshing (31X), terrain reading for cross sections (41E1) and their refreshing (41X), as well as several other functions such as 3D slopes (21P2), CGS terrain creation (11L1), editing or deleting TCS elements (41I),…

21C – Start Station Decimals Are Now Correctly Displayed

When defining a start station, the entered stationing values (km + m) were not preserved correctly after confirmation. The decimal part of the "m" value was automatically extended with excessive precision (for example, entering km: 581 and m: 843.352 resulted in 843.3519999999999 after pressing OK).

This issue has now been fixed. The entered start station values are now stored and displayed exactly as input, ensuring correct precision and consistent numerical representation across all dialogs and calculations.

21E3 – TP Labels No Longer Duplicated When Continuing an Alignment

Previously, when continuing an existing alignment, already drawn tangent polygon (TP) label elements were not removed before new ones were added. As a result, lines, block tables, circles, and TP text names were duplicated each time. This issue has now been resolved

21FB – Convert to Tangent Polygon Issue on Certain Combinations

When converting an alignment to a tangent polygon, the main elements were not preserved. In cases where two curves were separated by a partial spiral and both radii were very similar (within less than 10%), the partial spiral was converted to a regular spiral with different values. This issue has now been resolved, and the main elements are correctly retained after conversion.

21J1 – Freeze When Projecting Alignment to CGS Points on Autodesk Platform

On the Autodesk (ACAD) platform, projecting alignment to CGS points in specific conditions caused the application to freeze when projecting to the longitudinal alignment. This issue occurred when using function 21J1. The problem did not occur when projecting only to sample lines, and it was not present on the BricsCAD platform. The issue has now been resolved.

21P1 – Jump 3D Road Edge Not Created on Missing Sections Anymore

If a 2D lane polyline was modified so that a portion was trimmed or removed, this change was also reflected in the generated 3D road edge polyline. However, when a jump was defined, the additional 3D jump polyline was not trimmed as expected. This behavior has now been corrected. The additional jump 3D polyline is now generated in the same way as the normal 3D road edge and is only shown on the section where 2D lane is present.

31C4 – Edit Table No Longer Changes the Color of Horizontal Elements Rubric

After confirming command 31C4 for editing the active table in the profile view, the color of horizontal elements in the rubric (LRO_2) was incorrectly changed to white. The predefined color is now preserved and no longer changes during editing.

31C9 – Move Profile View No Longer Offsets Tangent Polygon Tables

Previously, when a Profile View was moved (31C9) and then refreshed (for example, by 31X), tangent polygon label tables were incorrectly displaced vertically (Y offset) due to how position data was stored for each table. This behavior has now been corrected, and moving the Profile View no longer affects table positions.

31D1 – Incorrect Stationing of Vertical Segments in Profile View

In specific cases where an alignment element was nearly vertical, profile stations were calculated incorrectly. The tolerance used to determine whether a line element is treated as vertical or horizontal has been adjusted. As a result, vertical segments are now correctly identified, and stationing is calculated accurately.

31E2 – Rubric Projection Line Not Recognized as a Regular Projection Line

Using Rubric projection lines in Profile view (31E2) and using projection points in cross sections (41K2) could resulted in incorrect heights as it took the height from rubric projection line instead of graphic projection line. This has now been fixed.

31K3 – Incorrect Export of User Defined station to the Jumps File

If user-defined stations were specified in the jumps table and these data were exported to an external file (JMP), the records were incorrectly ordered in the list, which also resulted in an incorrect data import. The export process has been updated – the data are now verified and properly sorted by stations before export.

41GB – Improved TCS Block Hatch Color Conversion

Previously, if hatches inside user blocks were placed ByLayer and that layer had an assigned color, the color was not applied correctly when converting to a CGS block or planimetry. In those cases, the color was changed to default white. This logic has now been improved: the new layer will retain the correct color, and if multiple hatches have different colors, they will be converted with the hatch color set to ByColor.

41F1 – Roadway Not Drawn When Multiple Records Were at the Same Station

When, for example, a correspondence axis and a regular axis were placed at the same station, Plateia could not read the data correctly, resulting in the roadway not being drawn in the cross sections (while it was shown correctly in the longitudinal profile). This issue has now been fixed, and the roadway is now displayed correctly in the cross sections as well.

41M3 – Decimal Delimiter Now Supported in Hatch Scale

Previously, entering a new decimal delimiter for hatch scale was not possible, as only integers were accepted. This issue has now been resolved, and decimal delimiters can be used.

41X – Interactive TCS Dimensions No Longer Disappear

When using interactive option to label TCS elements dimension (41J2), those labels were deleted when cross sections were refreshed because the parameters were incorrect. This has been now fixed. Also, the selection of elements was subsequently changed for TCS dimensioning for easier use.

52D1 – Fillets Now Drawn in All Cases

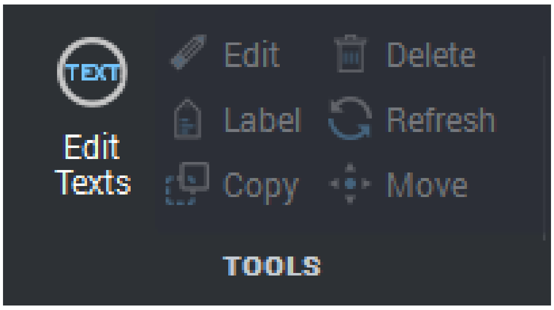
In certain cases, fillets were not previewed or drawn as expected. This issue primarily occurred when an alignment ended with a curve and multiple intersections were detected between the two alignments. The problem has now been resolved, ensuring that only a single intersection point is recognized and fillets are correctly created

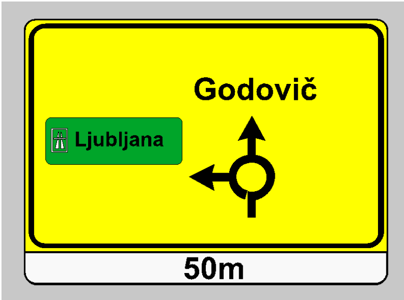
3. AUTOSIGN

3.1. ENHANCEMENTS

55H7 - Edit Texts on signs with the text entities

You can now easily update texts on signs without deleting them. Just run the **Edit Texts** command, make your changes and recreate the 3D model. The command works with signs that use TEXT entities ("_temp" signs).



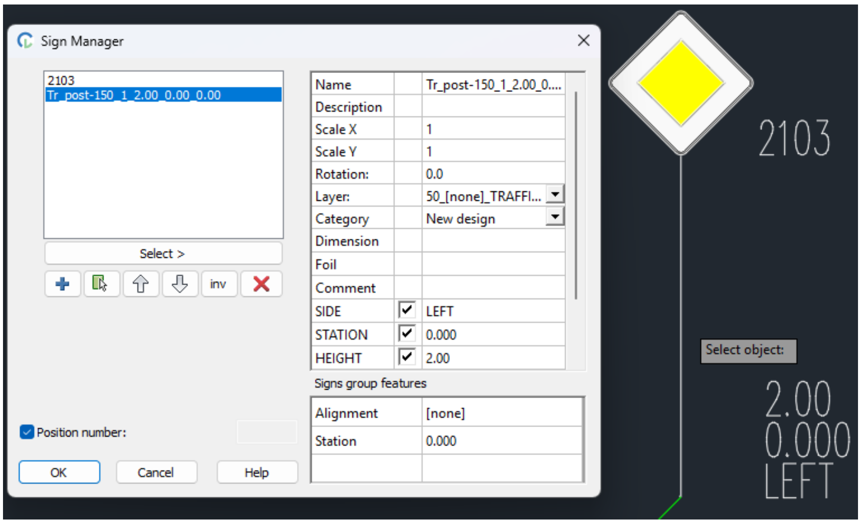


Autosign Recalls Your Last-Used Settings

Autosign now remembers your settings for traffic sign and markings elements, saving your last-used parameter values for each drawing. In new drawings, default values are called from database.

55H1 - Editing Post Attributes

Similar to how you could edit sign attributes in the previous versions, you can now edit post attributes. You can control visibility of attributes and content. Post attributes are now organized in a single column.



55H1 - Rotation of the signs

The sign rotation attribute now uses degrees instead of radians.

3.2. FIXES

55D3 - Ghost island creation

Ghost island tool was not working correctly. The hatches were overlapping, the hatch direction setting and the filled tip option were not working. These problems were fixed.

55J1 - Draping ghost island to the surface

Draping ghost island to the surface did not work properly. The 3D model for ghost island is now enhanced.

55J1 - Draping longitudinal markings to the surface in BricsCAD

The longitudinal markings were not properly draped to the surface in BricsCAD, but now this is solved.

55J1 – Duplicated 3D cross markings and coloring

3D cross markings and coloring were duplicated when draped to the surface. This is now fixed.

3.3. LIBRARIES

Polish library update

Polish library has been updated (added missing signs and road markings, signs fixed for 3D model creation, hatch colors are now set to “ByLayer”).

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