Sivan design was incorporated in 1995 becoming a world leading provider of customized enterprise level geospatial solutions, including National Land Projects, comprehensive GIS solution integrating with ERP capabilities, 3D GIS application and user friendly civil engineer CAD product.

CivilCAD 10 - Survey
- Surveying solutions and COGO calculations

CivilCAD 10 - Pipes
- Water engineering solutions

CivilCAD 10 - Standard
- Topography, land development and volumes calculations

CivilCAD 10 - Full Package
- The complete package

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Advanced Design Features
- Innovative function design including typical sections, islands, roundabouts and detailed reports.
- Define bridges and roadways in the design including earthworks volumes calculations and reports.
- Unique and advanced visibility evaluation mechanism with export and importing capabilities.
- Automatic and delete mechanisms of an overlapping area between two topographical lines.
- Ability to automatically create frequent backroads on the project revisions with quick restore capabilities.
- Load and save cost estimator’s data in Land XML format.
- Compressed 2D and 3D view of the project.
- Complex urban roads design using Extrude module.
- Comprehensive underground infrastructure information.
- Intelligent earthworks calculations per layer.

CiviCAD 10-Pipes
CiviCAD 10-Pipes includes complete set of tools for infrastructure pipelines planning including water, sewage, drainage, oil, gas, and telecommunication cables. Supporting both design and surveying aspects of underground and underground infrastructures, CiviCAD 10-Pipes offers limitless design capabilities.

Powerful Cross Section Design
- All layers associated with cross sections and design layers are differentiated and displayed according to the defined material and thickness.
- Ability to attach a ditch to an offset reference-line in the cross section.
- Detailed underground and upper ground utilities display in cross sections.
- Information layers can be separated to support authorities CAD standards.
- Single ditches and gutters definition according to cut, fill or in-between situations.
- Automatic height based side slopes cut or fill definition.
- Automatic emphasize of parallel and intersecting roads levels.
- Automatic side term design.
- Ability to define super elevation per cross section segment.
- Ability to accurately place objects in cross sections.

Detailed Section Design
- Ability to design sections in Drawing Environment Interface (AutoCAD).
- Receptors (Invert Levels) are displayed in the section’s slicing table.
- Broad look-out for defining depth plane, slopes, drops, manholes depth, manholes diameter, etc.
- Automatic design capabilities to shorten design process.
- Interactive updates between section and layout design.
- Simultaneous presentation of existing and designed ground levels.
- Detailed crossing infrastructures including depth and diameter.
- Water pressure valves positioning along a pipeline feature.

Comprehensive reports and plotting
- Volume calculations report generation.
- Detailed statistics, pipes quantities, size and depth, air valves and design details.
- Discharge report.
- Automatic division of sections according to the paper size for plotting.

CiviCAD 10-Roads
CiviCAD 10-Roads includes complete set of tools for road construction, road design, earthworks calculations, surveying, and above and underground infrastructure design. The software combines powerful design options, accurate and high-speed results, and enhanced usability setting new standards for roads engineers worldwide.

Horizontal and Vertical Alignment Design
- Changes made to certain segments of the road’s alignment are reflected in the vertical alignment.
- Automatic highlight of the cut fill transition point in horizontal alignment.
- Automatic road segments selection.
- Visual indication of cut/fill minimum and maximum extents.
- Complete horizontal alignment design set of tools including curve transition by clothoids or cubo-parabolas.

CiviCAD 10-Solution Suite provides civil professionals with a complete software solution. From surveyors and contractors to designers and engineers, whether road design, CiviCAD 10 Solution Suite offers wide-ranging solutions to meet all their needs including road construction and design, earthworks calculations, detailed design including earthworks volumes calculations and reports, complete design evaluation mechanism with export and importing capabilities, automatic alert and delete mechanisms of an overlapping area between two topographical lines, ability to automatically create frequent backroads on the project revisions with quick restore capabilities, load and save cost estimator’s data in Land XML format, compressed 2D and 3D view of the project, detailed underground and upper ground utilities display in cross sections, information layers can be separated to support authorities CAD standards, single ditches and gutters definition according to cut, fill or in-between situations, automatic height based side slopes cut or fill definition, automatic emphasize of parallel and intersecting roads levels, automatic side term design, ability to define super elevation per cross section segment, ability to accurately place objects in cross sections. Detailed Section Design focuses on ability to design sections in Drawing Environment Interface (AutoCAD), receptors (invert levels) are displayed in the section’s slicing table, broad look-out for defining depth plane, slopes, drops, manholes depth, manholes diameter, etc., automatic design capabilities to shorten design process, interactive updates between section and layout design, simultaneous presentation of existing and designed ground levels, detailed crossing infrastructures including depth and diameter, water pressure valves positioning along a pipeline feature, comprehensive reports and plotting - volume calculations report generation, detailed statistics, pipes quantities, size and depth, air valves and design details, discharge report, automatic division of sections according to the paper size for plotting. CiviCAD 10-Roads includes complete set of tools for road construction, road design, earthworks calculations, surveying, and above and underground infrastructure design. The software combines powerful design options, accurate and high-speed results, and enhanced usability setting new standards for roads engineers worldwide. Horizontal and Vertical Alignment Design focuses on changes made to certain segments of the road’s alignment are reflected in the vertical alignment, automatic highlight of the cut fill transition point in horizontal alignment, automatic road segments selection, visual indication of cut/fill minimum and maximum extents, complete horizontal alignment design set of tools including curve transition by clothoids or cubo-parabolas. Powerful Cross Section Design includes all layers associated with cross sections and design layers are differentiated and displayed according to the defined material and thickness, ability to attach a ditch to an offset reference-line in the cross section, detailed underground and upper ground utilities display in cross sections, information layers can be separated to support authorities CAD standards, single ditches and gutters definition according to cut, fill or in-between situations, automatic height based side slopes cut or fill definition, automatic emphasize of parallel and intersecting roads levels, automatic side term design, ability to define super elevation per cross section segment, ability to accurately place objects in cross sections. CiviCAD 10-Pipes includes complete set of tools for infrastructure pipelines planning including water, sewage, drainage, oil, gas, and telecommunication cables. Supporting both design and surveying aspects of underground and underground infrastructures, CiviCAD 10-Pipes offers limitless design capabilities. Pipeline Layout Design focuses on pipeline search by name with duplicate naming alert mechanism, display the pipeline’s name near the manhole, ability to display a crossing point between pipelines alignment and layout tools, pipelines alignment and layout tools, actual size manholes, pilers and pipes display in both layout and section design, layout extraction from drawings. Reservoirs and Dams Design includes unique method for reservoir, dams and ponds design (combined with the Roads package), detailed earthworks calculations, production of operational plans (scrapper plane and sections), levels based capacity computations, multi ponds design supporting shared embankments and slopes, special features allowing reservoir bottom-surface elevations design. CiviCAD 10-Survey provides surveyors with a professional tool to fully meet their field-to-office requirements and needs. Direct interface with standardized surveying equipment (BMW & coordinates). Unique solutions for least squares square adjustments including polygon network and free network. Surveyor coordinates editor for easy manipulation and filtering. Easy to use setup tool from office-to-field. Complete menu for geometric computations (CCDG). User-defined sets of codes and their presentation as blocks in the drawing. CiviCAD 10-Standard CiviCAD 10-Standard package appended to the Survey package a full set of features for handling contour lines and land development calculations. The package simplifies broad work processes from the input, via area maps production, to a successful conveyance out of the final set-up stages. Automatic creation and processing of contour lines, Automatic and automatic solutions for handling open and closed breaklines. Visual aids differentiate breaklines on the drawing. Simultaneous work with existing and designed 3D models. Fast and easy creation of ground sections between any two points. Cross quantities calculation and visualization using earthworks grid, triangles grid, or parcles. Volume calculations report generation. Wide range solutions for handling lots and their side-stopes. Zero line drawing and earthworks contours line.