Next Generation Work Process for Civil Engineering

midas CIM

Option Configuration Description

CIM

BIM Model Generation

- General 3D CAD Modeling Environment (Non-linear Pier/Pylon Modeling)
- Road Slope & Earthwork Modeling
- Tendon & Steel Bridge Reinforcement Modeling
- Rebar & Bolt Detailed Modeling
- 139 Point Libraries, including Abutments

BIM Interface for Collaboration and Open Integration

- Import/Export IFC & 3D CAD (Parasolid, DWG)
- Import midas Civil files
- Import Satellite Pictures & 3D Topographies
- Export to Google Earth

Simulation for Smart Design

- Sequential Placement of Concrete Members by Construction Stage
- Clash Check & 4D Construction Simulation
- Quantity Calculation by Construction Schedule/Construction Stage

BIM Modeling and Drawings Generation

- Create and Edit Drawings via midas Drafter
- Create Curved Drawings, 2D Plane Drawings & 3D ISO View Drawings
- Generate 3D PDF Drawings
- Generate Rebar Shop Drawings & Barlists including Rebar Shape

Analysis with CIM model

- Export to FEA NX Solid Modeler
- Export to GTS NX Solid Model
- Export to SoilWorks 2D Drawings

Option 1 — Curve Module

- Linear Structure Modeling
- Automatic Update based on Alignment changes (including Rebar)
- Provide 116 Curve Libraries, including Retaining Wall
- User Defined Environment for Library Creation (Neutral Text)

Option 2 — Assembly Module

- Entire Project Modeling based on Library Assemblage
- Automatic Update based on Alignment Changes (including Rebar)
- Super Elevation Features
- Smart Templates (Bridges, Tunnels)
- User Defined Environment for Smart Template Creation (Neutral Text)

Option 3 — Analysis Module

- Revision Update & midas Civil Export

Drafter

Link to 2D Drawings

- Generate Structural Drawings Linked with midas CIM (Automatic Update)
- Advanced Tool(LISP), M-Dream
- Identical Work Environment with AutoCAD
- Import/Export DWG/DXF format files (Compatible with AutoCAD)

CIM is delivered based on an annual subscription plan with all the features and options provided.