

Getting Started for First Time Users

Crack Midas Civil in 15 Minutes

Course Goals:

- How to locate user manuals
- How to find help online
- Get familiarized with midas Civil user interface
- Gain confidence by creating a simple bridge deck model under 10 minutes



Locating Midas Civil Manual in C drive

- Once you have installed the software, you can refer to the manuals and tutorials at C:\Program Files\MIDAS\midas Civil\Manual
- You can also find midas Civil online manual here http://manual.midasuser.com/EN_Common/Civil/895/index.htm



Access to Online Support

- When in doubt, you can submit your questions to our technical support team from this link once you set up your account for the support web page.
- You can also view midas Civil user forums and FAQs on this website.



MIDAS Customer Online Support

<https://globalsupport.midasuser.com/helpdesk/>

Advanced New ticket Ideas forum Login

FAQ for midas Civil (66 articles)

- > **Civil Tutorial Manual - Nonlinear Time History**
Updated: Friday, December 14, 2018 manual midas civil nonlinear time history
seismic analysis seismic isolator time history analysis tutorial
- > **Civil Tutorial Manual - Cable Force Tuning**
Updated: Friday, December 14, 2018 cable bridge cable force tuning cable pretension
cable stayed cable stayed bridge
- > **Civil Tutorial Manual - Cable Bridge Applications**
Updated: Friday, December 14, 2018 cable bridge cable force tuning cable pretension
cable stayed cable stayed bridge cables
- > **Civil Tutorial Manual - PSC Design (AASHTO-LRFD 12)**
Updated: Friday, December 14, 2018 aashto aashto lrfd manual psc psc design
tutorial
- > **[VIEW] Various display options**
Updated: Monday, September 4, 2017 display option element color midas civil
thickness

Q&A forum for midas Civil (479 articles)

- > **More stress options on global axis then on local axis** updated new
Updated: Tuesday, July 21, 2020
- > **Import/Export User Defined Vehicles**
Updated: Thursday, June 25, 2020 export vehicle import import vehicle
- > **Design to BS 5400**
Updated: Thursday, June 18, 2020 bs 5400
- > **Section Properties Tables - Graphics Display Error**
Updated: Tuesday, June 16, 2020
- > **Pile Spring parameter**
Updated: Monday, June 8, 2020 pile spring

[View all](#)

We try to stick to our general support policies of

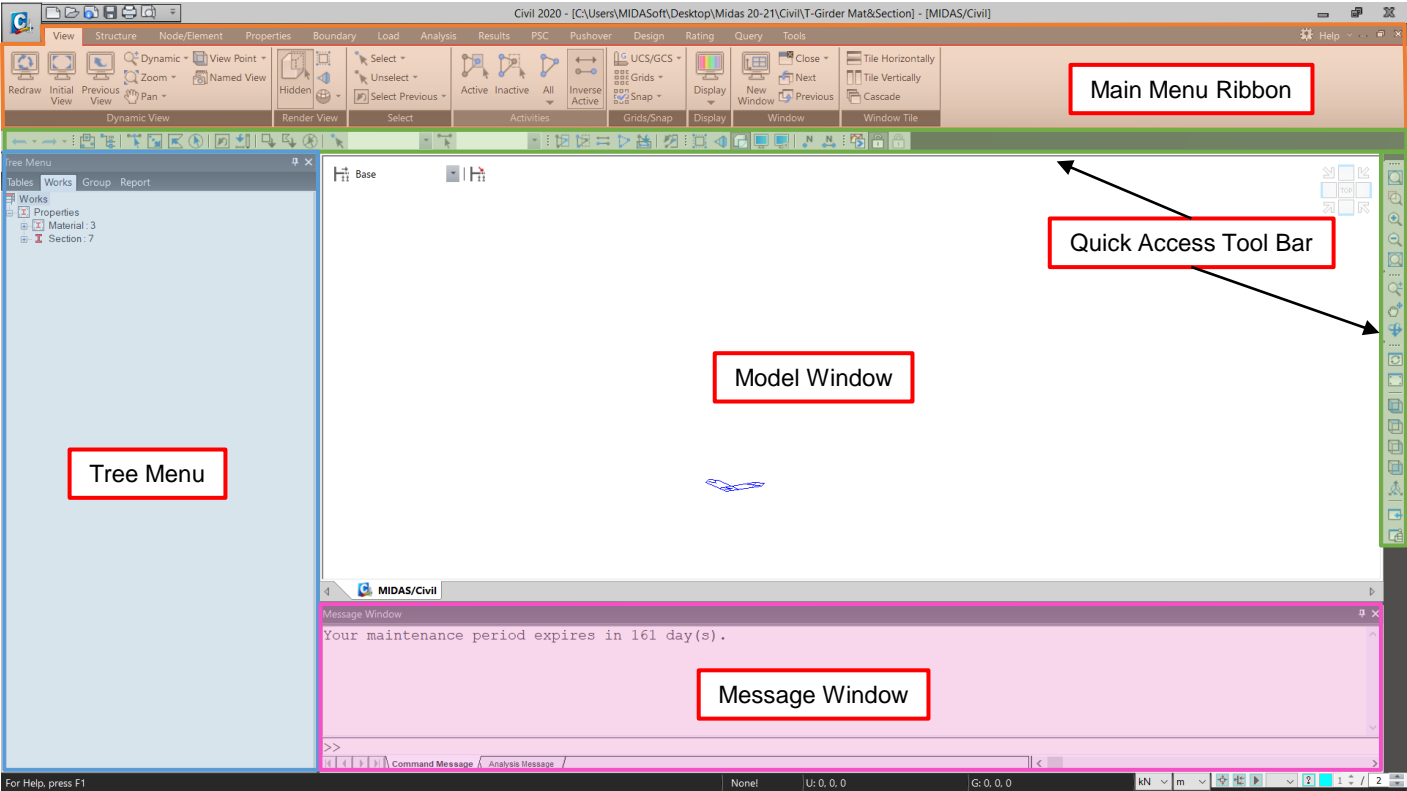
- First response within **24** hours
- Complete resolution within **3-4** business days

Based on the report from first half of 2020:

- Currently we answer and resolve an average of **150** tickets per month from our clients in the US & Canada
- **77%** of our clients give us 5 out of 5 ratings on their satisfactory level on our technical support service.



Midas Civil User Interface

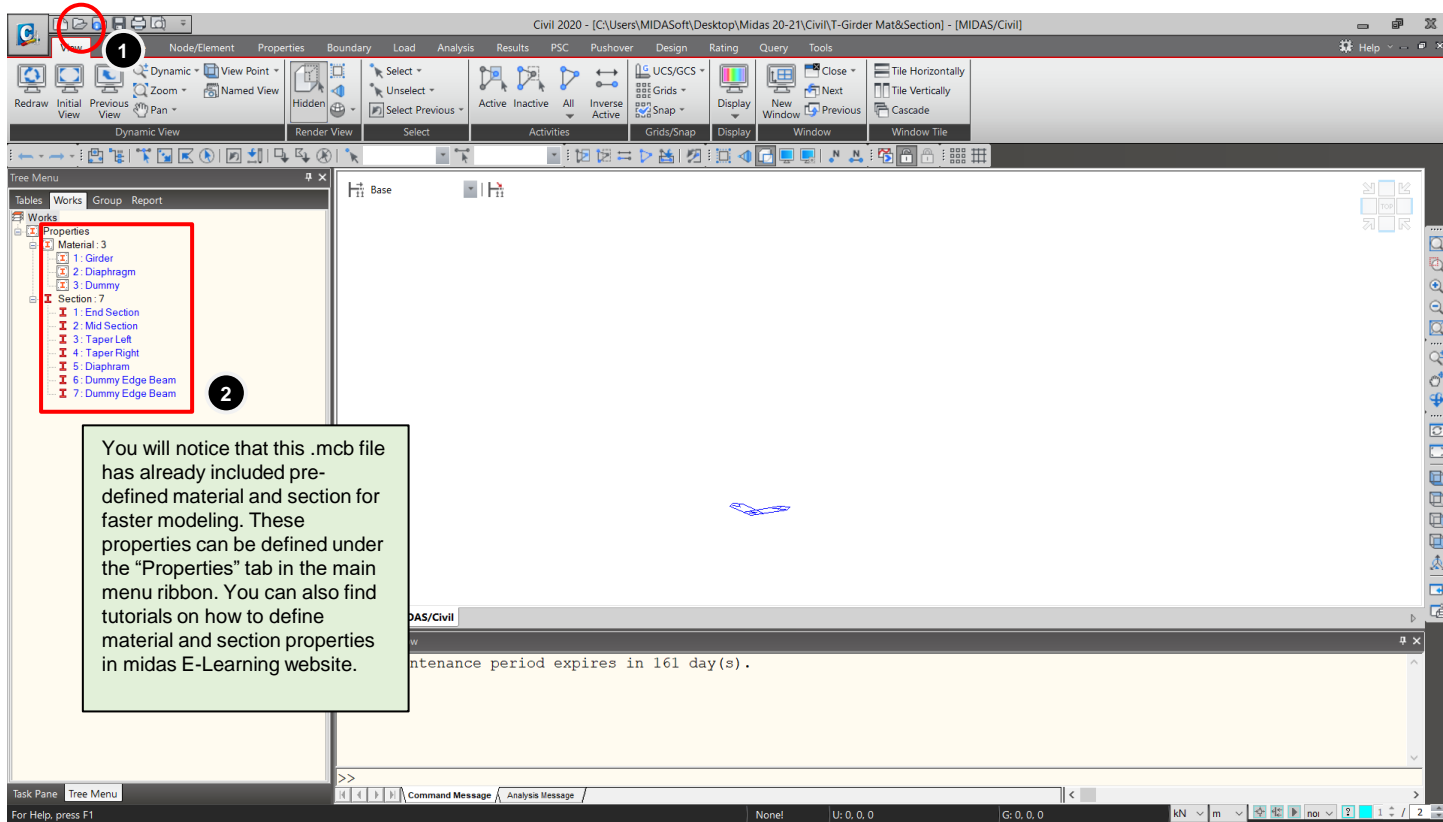


**Now it is time to get familiarized with midas Civil
and gain confidence by building a simple bridge
model from our step-to-step guide!**



Build A T-Girder Bridge Deck in 8 Minutes

- Step 1, download file “T-Girder Mat&Section.mcb” and open in midas Civil



The screenshot displays the midas Civil software interface. The main window shows a 3D view of a bridge deck structure. The Tree Menu on the left is expanded to show the 'Properties' tab, which includes a list of pre-defined materials and sections. A red box highlights the 'Properties' tab and its contents, with a circled '1' pointing to the 'Dynamic' button in the ribbon and a circled '2' pointing to the 'Properties' tab in the Tree Menu. A green callout box provides additional information about the pre-defined properties and sections.

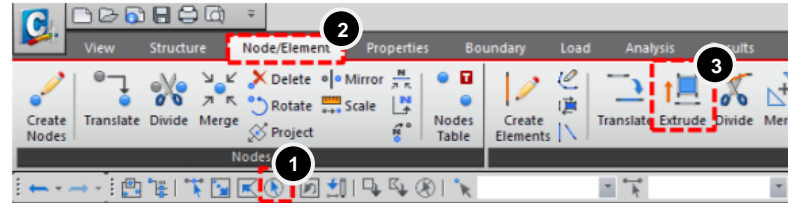
You will notice that this .mcb file has already included pre-defined material and section for faster modeling. These properties can be defined under the “Properties” tab in the main menu ribbon. You can also find tutorials on how to define material and section properties in midas E-Learning website.



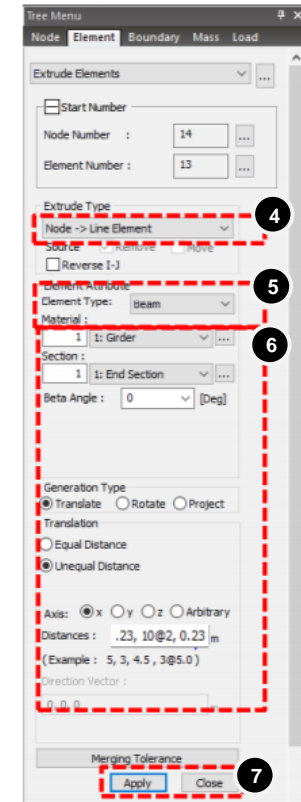
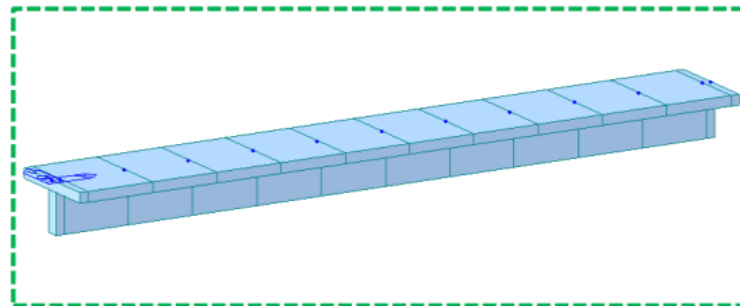
Build A T-Girder Bridge Deck in 8 Minutes

Model Generation – Creating Elements (Girder)

- 1 Click on “Select All” to select the node no.1
- 2 Click on “Node/Elements”
- 3 Click on “Extrude”
- 4 Go to “Tree Menu”
- 5 Select Extrude Type “Node -> Line Element”
- 6 Select Element Type “Beam”
- 6 **Generating Elements:**
 Select Material “Girder”
 Select Section “End Section”
 Select Generation type “Translate”
 Select Translation “Unequal Distance”
 Select Axis “X”
 Distances > 0.23,10@2,0.23
 Click “Apply”
- 7 Click on “Close”



Node extruded to create elements



Build A T-Girder Bridge Deck in 8 Minutes

- Step 2, Creating girder elements

Model Generation – Translate Elements

- 1 To view the model in isometric view

Click on



- 2 Click on "Select All" to select the girder element

To copy the girder twice along +Y direction at a space of 3m each

- 3 Click on "Node/Element"

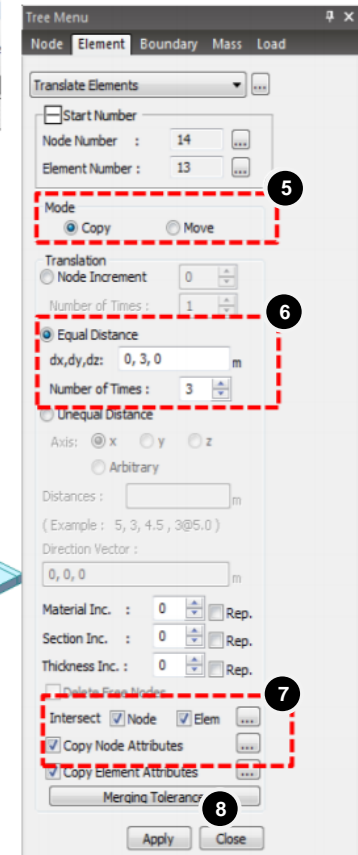
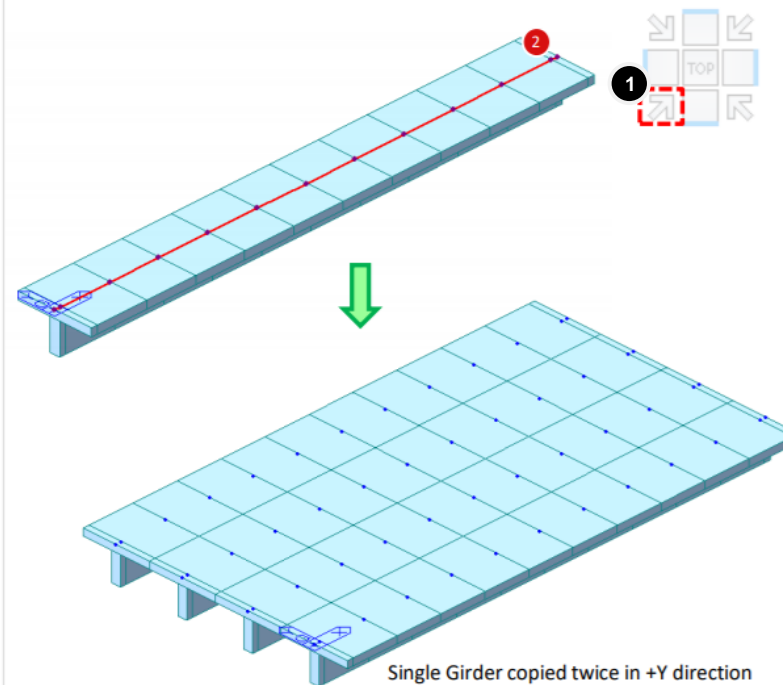
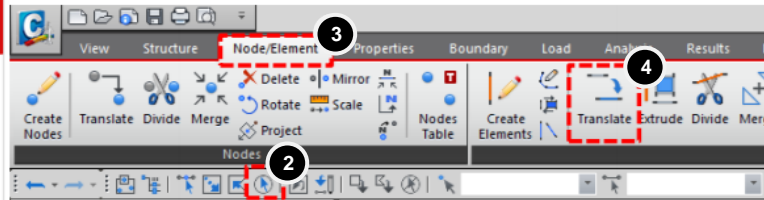
- 4 Click on "Translate Element"

- 5 Go to "Tree Menu" > Mode "Copy"

- 6 Translation "Equal Distance"
dx,dy,dz > "0,3,0"
Number of times "3"

- 7 Check on "Intersect Node, Element, Copy Node Attributes, Copy Element Attributes"



- 8 Click "Apply"

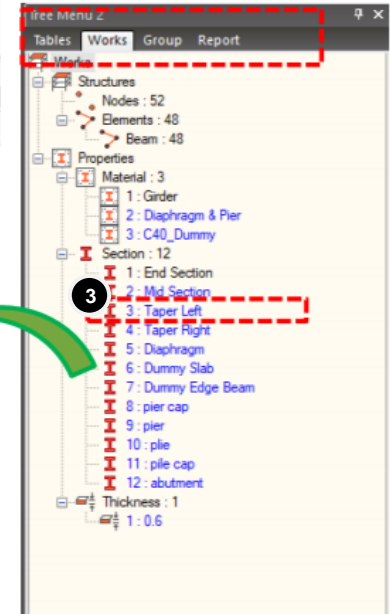
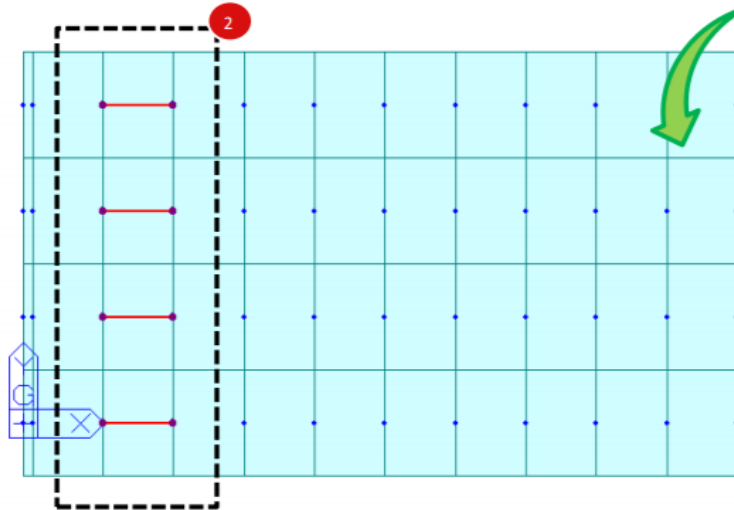
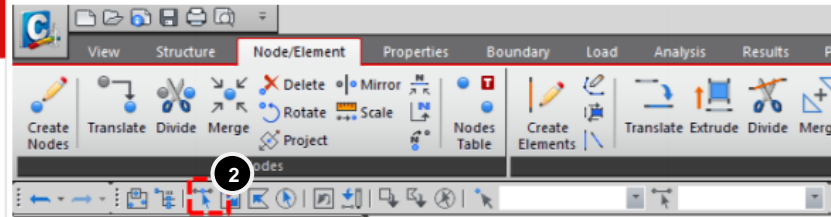


Build A T-Girder Bridge Deck in 8 Minutes

- Step 2, Creating girder elements

Model Generation – Translate Elements

- 1 To view the model in isometric view
Click on 
- 2 Click on “Select Single ”
Select the highlighted portion as shown in figure.
- 3 Go to Tree Menu
Select Section > Taper Left
Using Drag and drop option assign in model window.

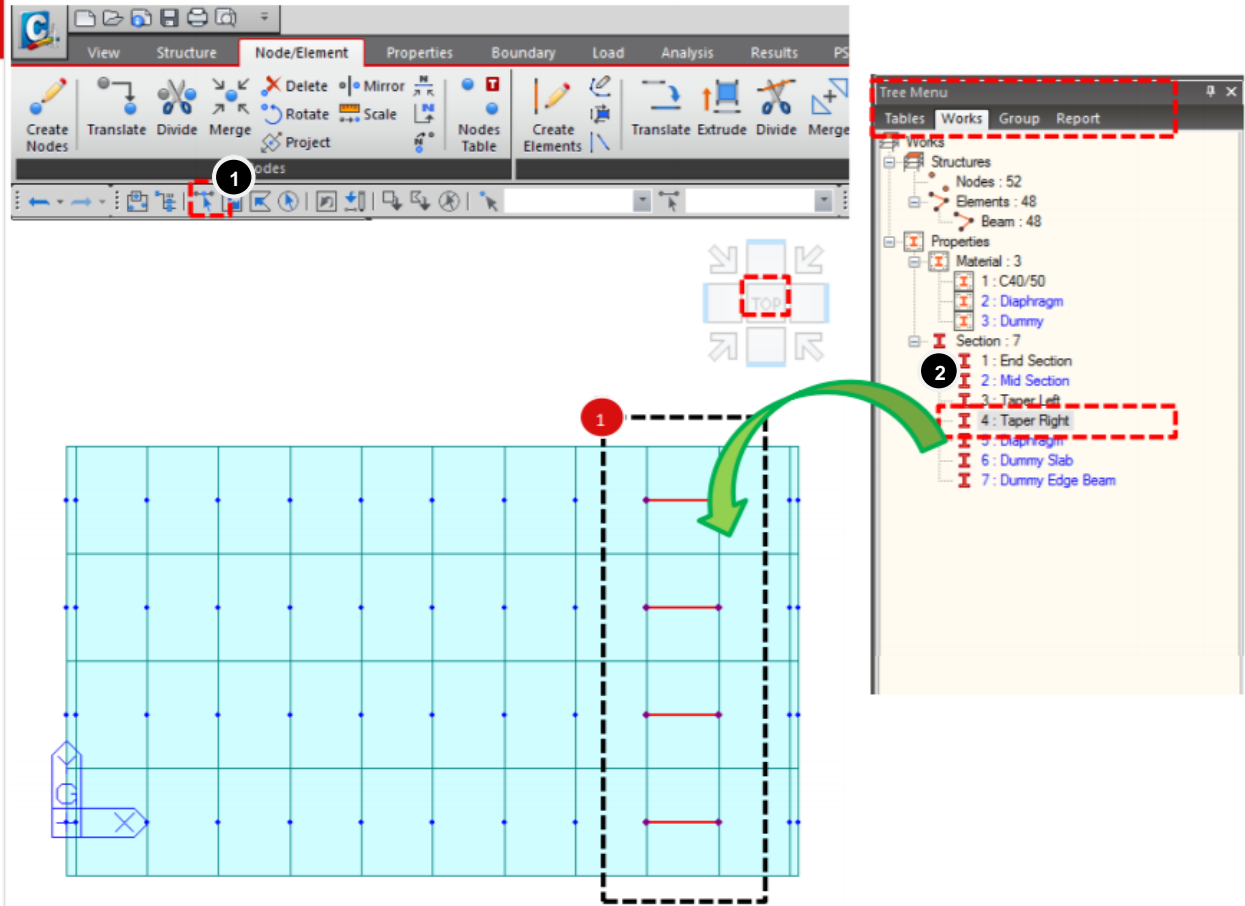


Build A T-Girder Bridge Deck in 8 Minutes

- Step 2, Creating girder elements

Model Generation – Translate Elements

- 1 Similarly,
Click on “Select Single”
Select the highlighted portion as shown in figure.
- 2 Go to Tree Menu
Select Section > **Taper Right**
Using Drag and drop option assign in model window.



Build A T-Girder Bridge Deck in 8 Minutes

- Step 2, Creating diaphragm elements

Model Generation – Creating Diaphragm

- 1 To view the model in Top view Click on



- 2 Click on “Node/Elements”
- 3 Click on “Create Elements”

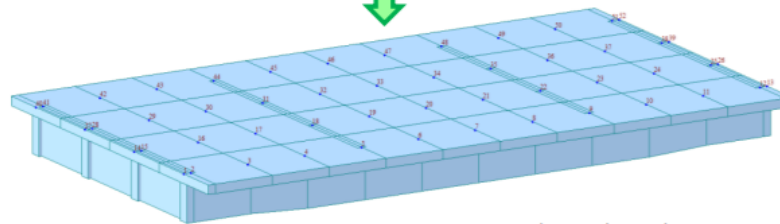
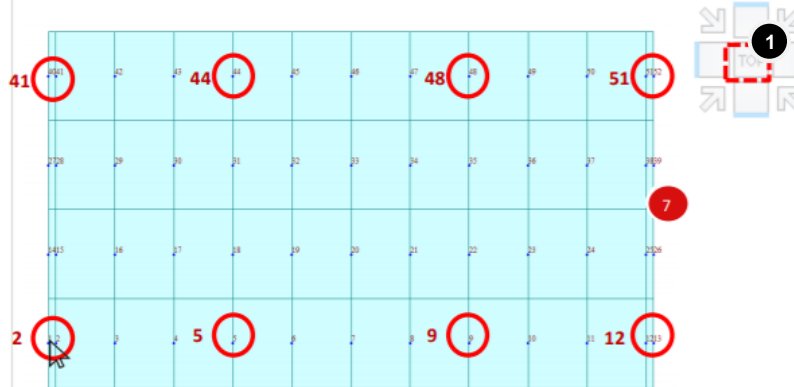
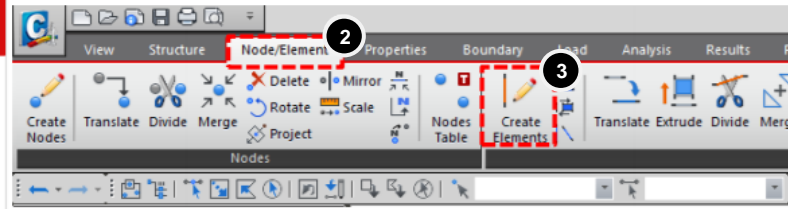
Go to “Tree Menu”

Generating Elements - Diaphragm:

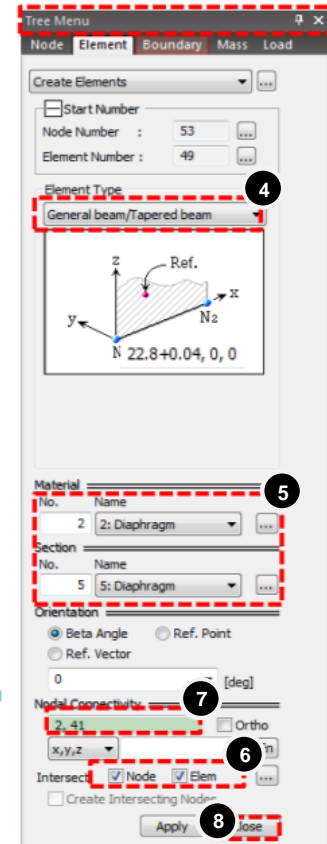
- 4 Element Type > General Beam/ Tapered Beam
- 5 Select Material > “Diaphragm & Pier”
Select Section > “Diaphragm”
- 6 Check **Node** and **Element** check box
- 7 Click in **Nodal Connectivity** box & then Click on Node no. 2 and 41 to create end diaphragm between those two nodes

Similarly create End diaphragm between
Nodes 5 and 44
Nodes 9 and 48
Nodes 12 and 51

- 8 Click on “Close”



Girders with Diaphragms



Nice! You have completed this tutorial! What's next?

- More in-depth tutorials and features of midas Civil can be found on midas E-Learning website. And you can access them anytime for free!

<https://www.midasoft.com/e-learning>

Exploring Midas Civil

💡 Graphic User Interface (GUI) (9:29)

Manual Modeling

💡 Simple Beam Modeling

💡 2D Frame Modeling

💡 3D Frame Modeling

💡 Truss Modeling

💡 Irregular Structure Plate Modeling

💡 Irregular Modeling: Skewed with 10th Point (7:00)

Wizard Modeling

💡 PSC Transverse Box

Complete Steel Composite Bridge

💡 Steel Composite Bridge Modeling Pt. 1 (12:53)

💡 Steel Composite Bridge Modeling Pt. 2 (15:25)

💡 Analysis Results (14:43)

💡 Design Code Checking (15:59)

Concrete Bridge

💡 T-Girder Bridge with Substructure Part 1

💡 T-Girder Bridge with Substructure Part 2

Culvert Bridge Engineering

💡 Introduction to Culvert Bridge (9:18)

💡 How to Model, Design and Analyze a Box Culvert

Creating New

💡 How To Create Nodes And Elements

💡 How To Model With Spreadsheets

💡 How To Quickly Model A Bridge

Inputs

💡 How To Model With CAD Files

💡 How To Use MCT Command Shell

💡 Practice Text Input With MCT Command Shell

💡 How To Check Section Offset

💡 How To Check Section Calculations

Modifying/Editing

💡 How To Update Section Properties Quickly

💡 How To Change Curvature Quickly

💡 How to Modify Load Combinations

💡 How to Review Pile Reaction in Table Format

