
AASHTOWare BrDR 7.5.0
Report Tutorial
RPT – Report Tool Example

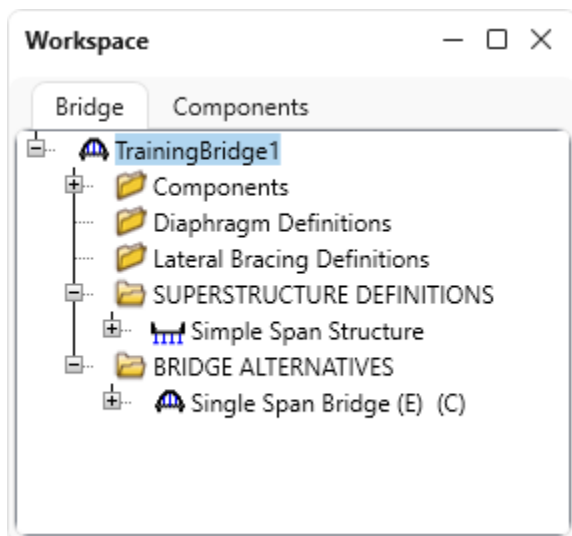
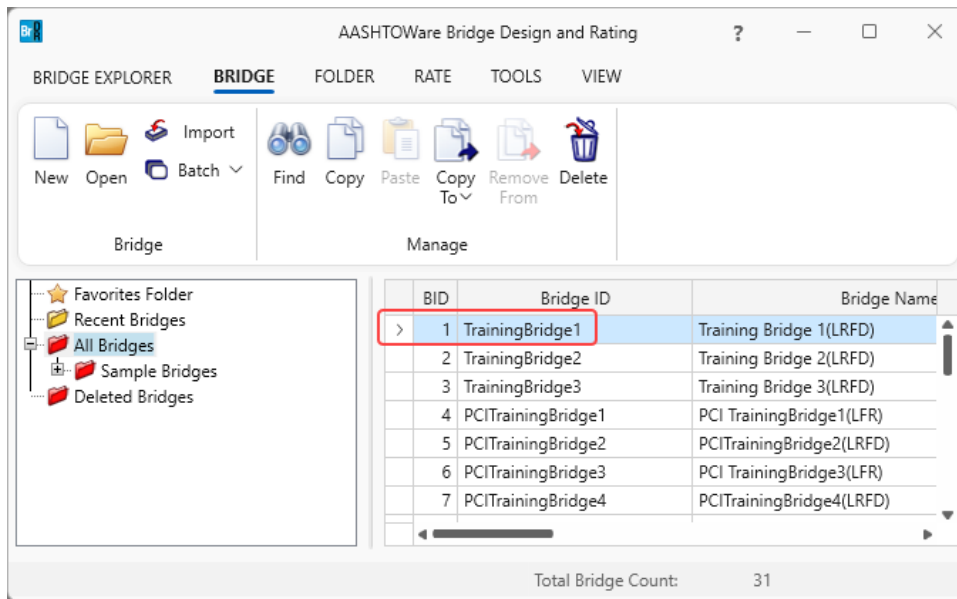
RPT – Report Tool Example

This example will illustrate the following topics for the Report Tool:

- Add groups and attributes.
- Delete groups and attributes.
- Save the selected groups and attributes to a report definition file.
- Generate a report.
- Merge two report definition files.

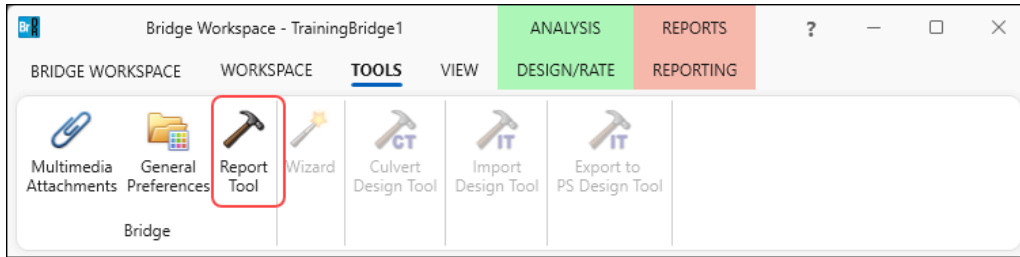
Add groups and attributes

Double-click **TrainingBridge1** from the **Bridge Explorer** to bring up its **Bridge Workspace** as shown below.

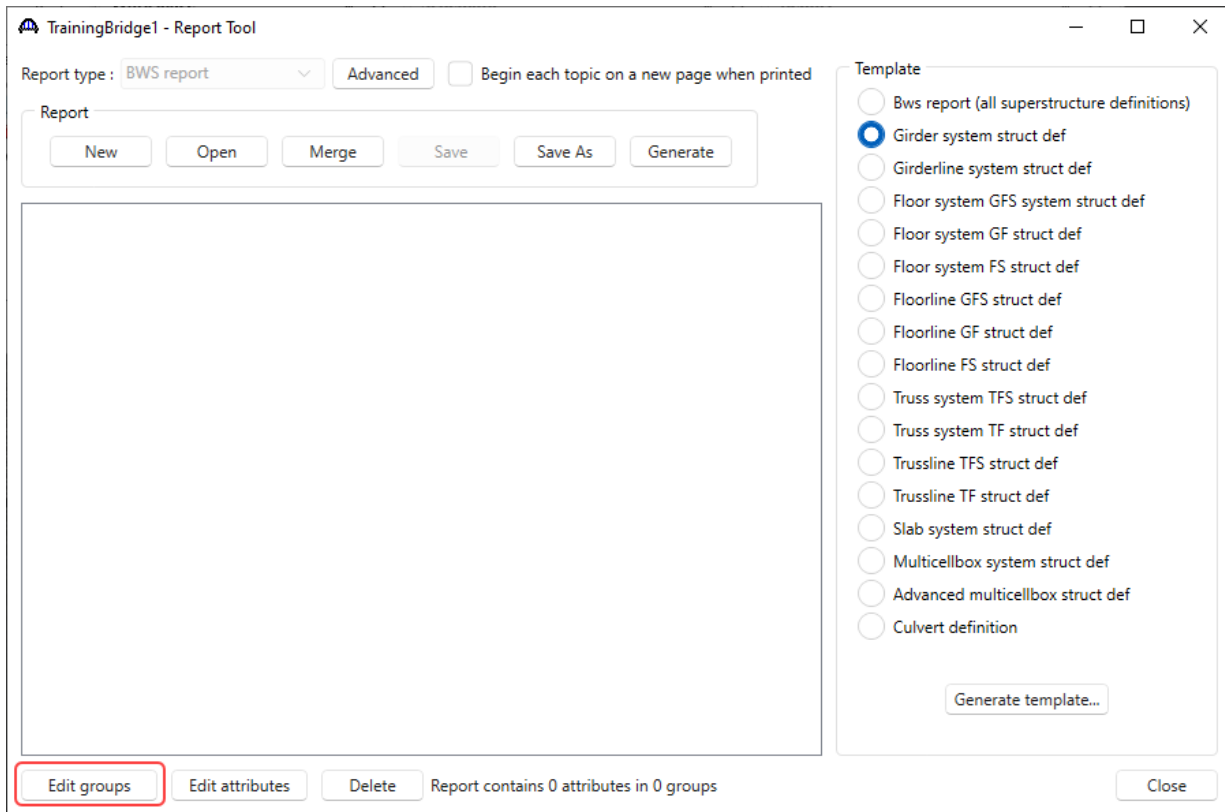


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From the **Bridge** group of the **TOOLS** ribbon, open the **Report Tool** by clicking on the **Report Tool** button as shown below.

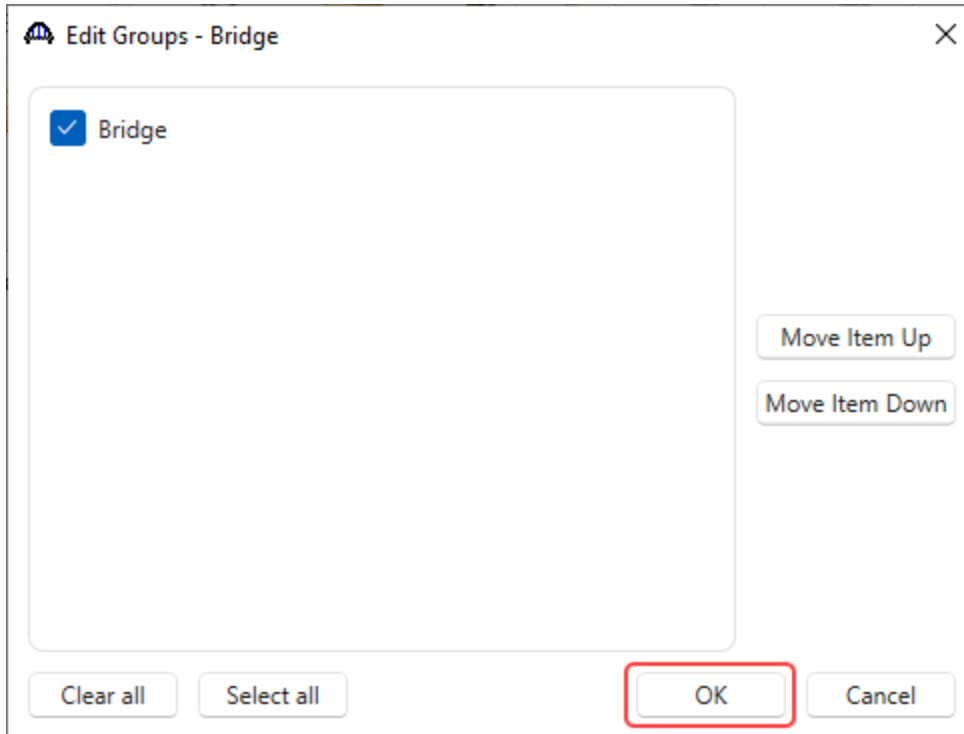


The following window appears. Click on the **Edit groups** button as shown below.

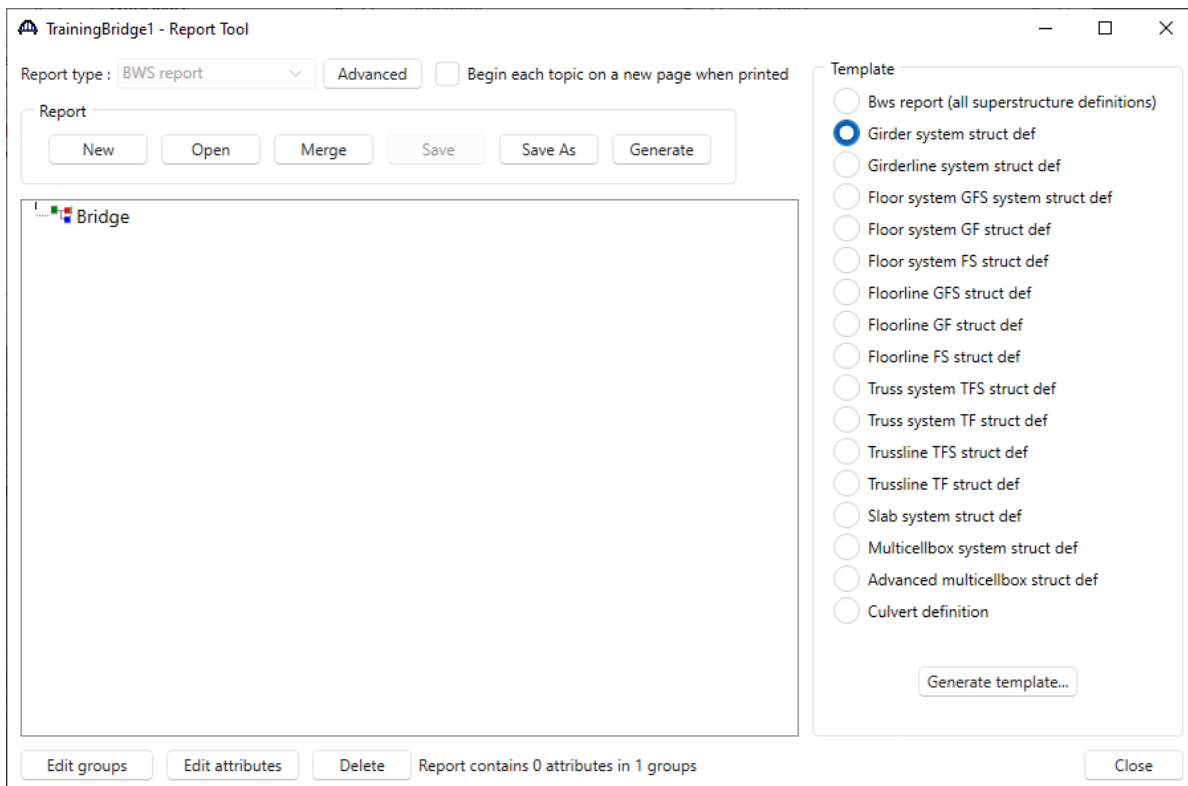


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Select the **Bridge** checkbox and click **OK** to add the **Bridge** group to the report definition and return to the **Report Tool**.

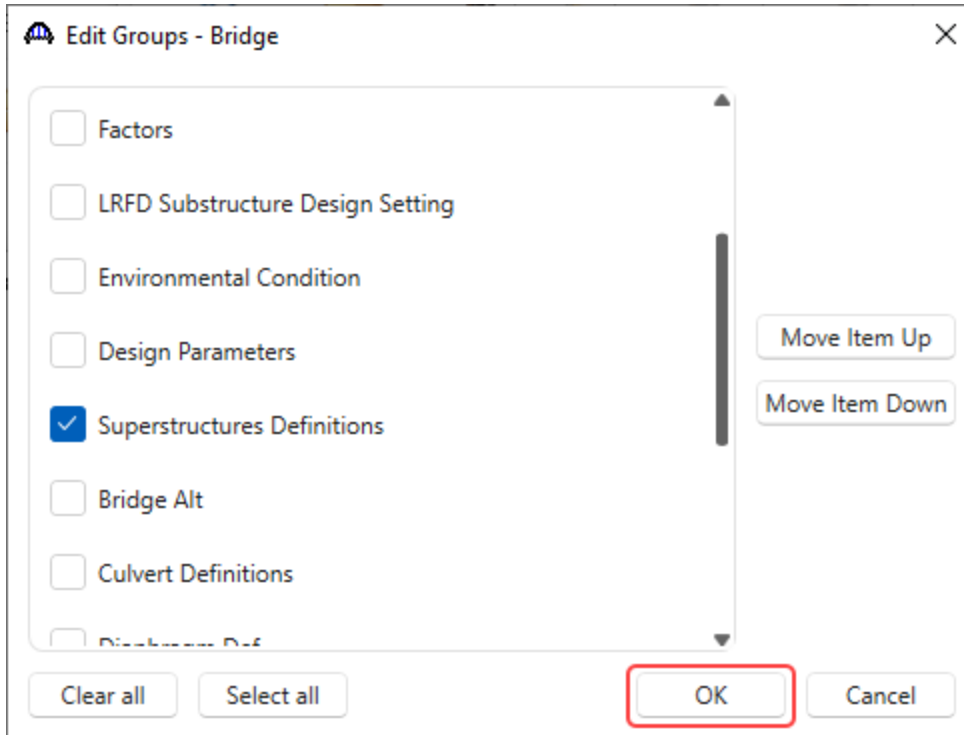


The **Report Tool** window is updated with **Bridge** group as shown below.

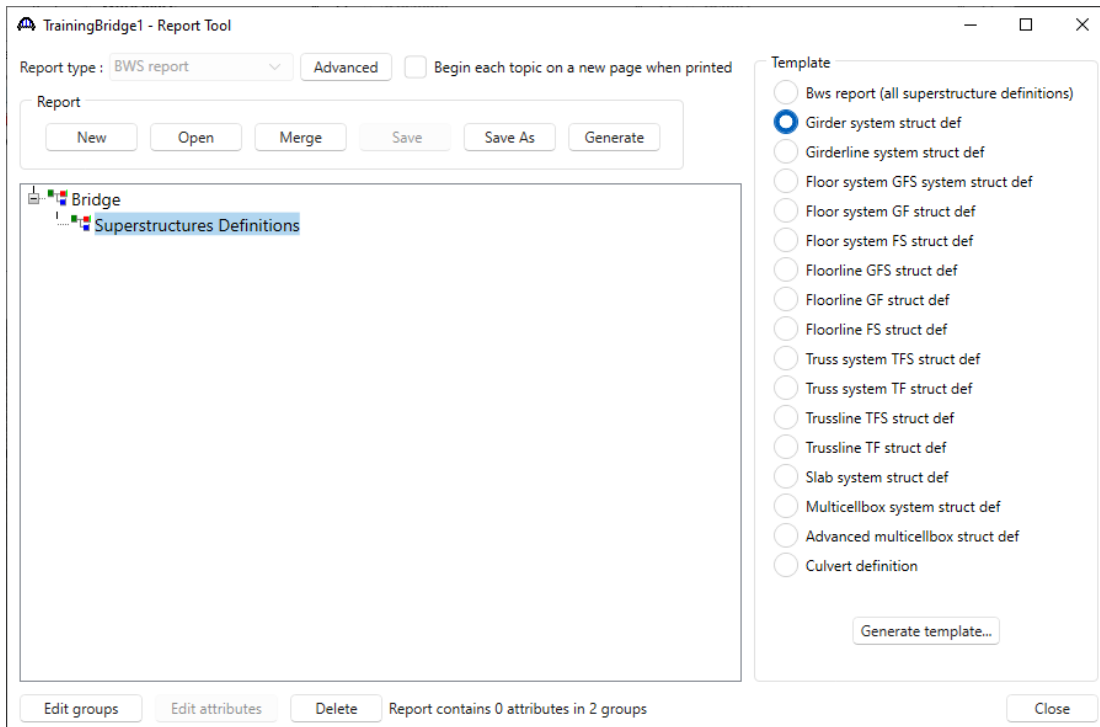


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Select the **Bridge** group and click on the **Edit groups** button to open the **Edit Groups – Bridge** window. Select the check box **Superstructure Definitions** and click **OK**. to add the superstructure definitions group to the report definition and return to the **Report Tool** window.

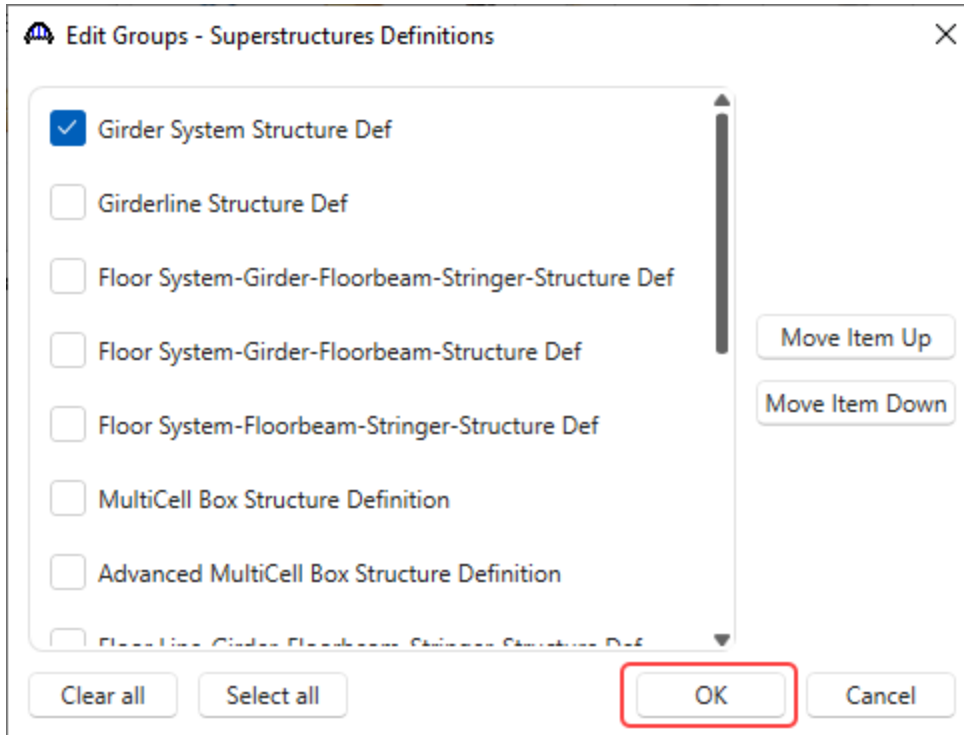


Expand the **Bridge** group to view the **Superstructure Definitions** group as shown below.

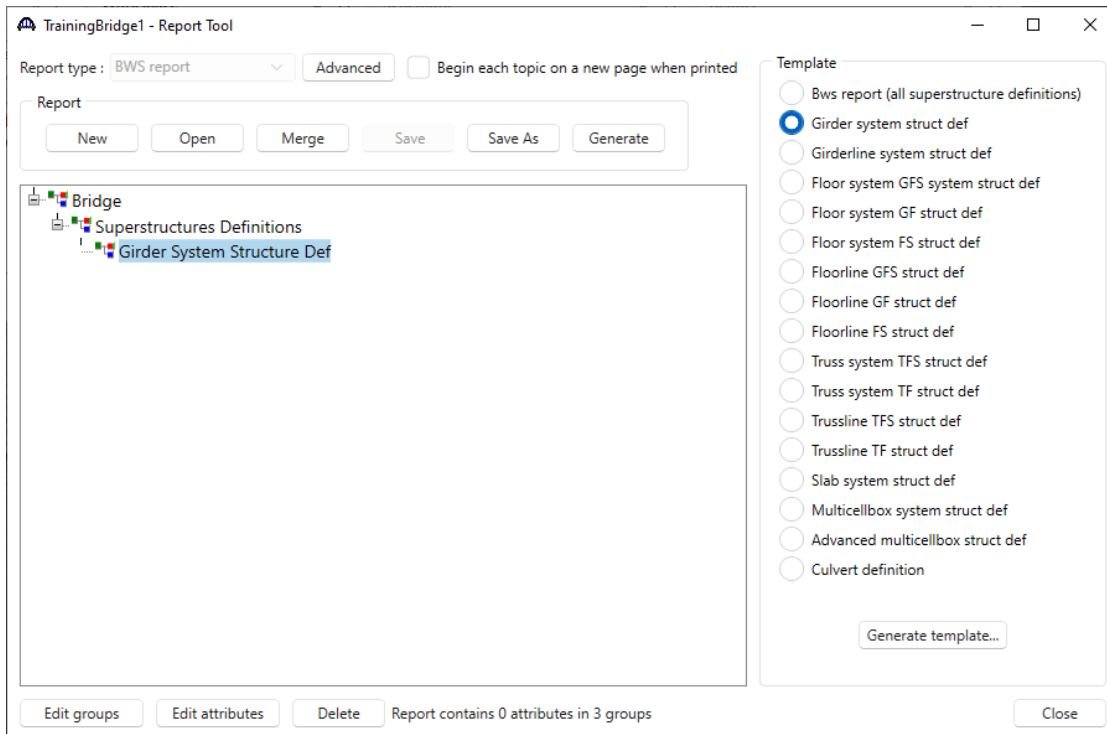


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Select the **Superstructures Definitions** group and click on the **Edit groups** button. Select the check box next to the **Girder System Structure Def** group and click **OK** to add the girder system structure definition to the report definitions and return to the **Report Tool**.

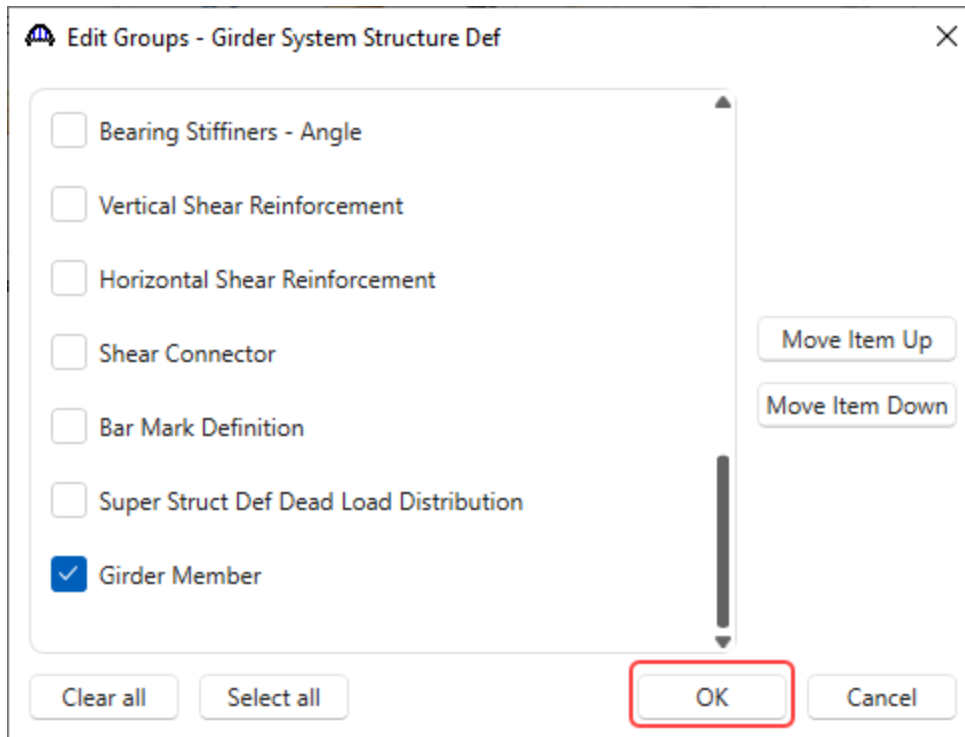


Expand the **Superstructures Definitions** group to view the **Girder System Structure Def** group as shown below.

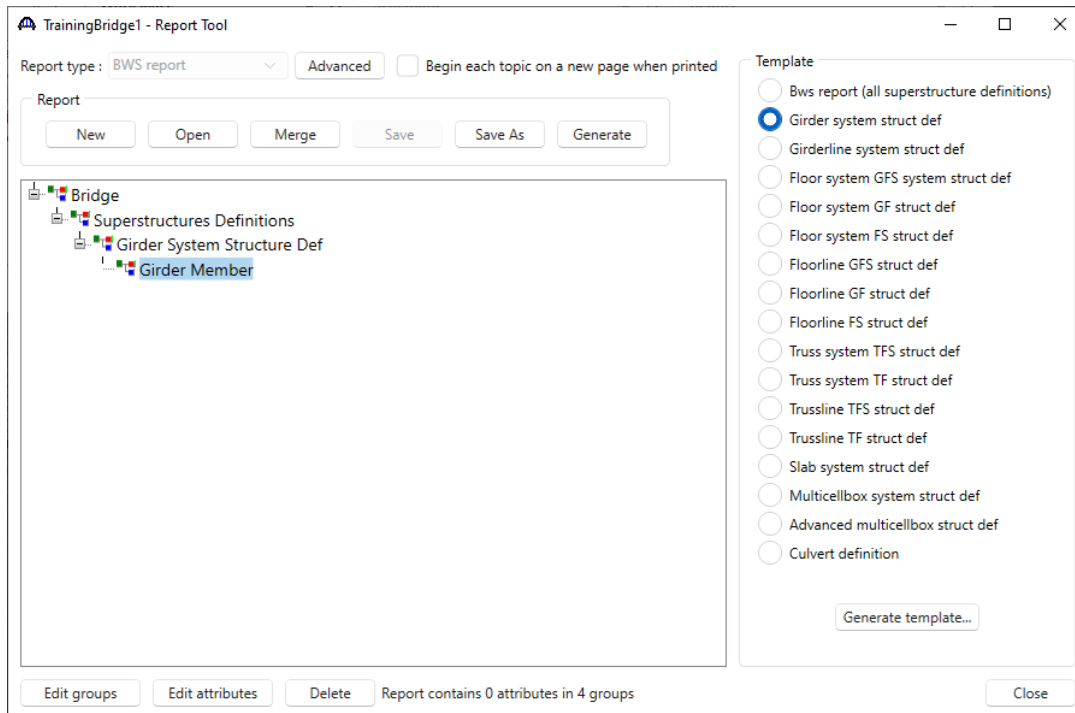


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Select the **Girder System Structure Def** group and click on the **Edit groups** button. Select the check box next to the **Girder Member** group and click **OK** to add the girder member group to the report definitions and return to the **Report Tool**.

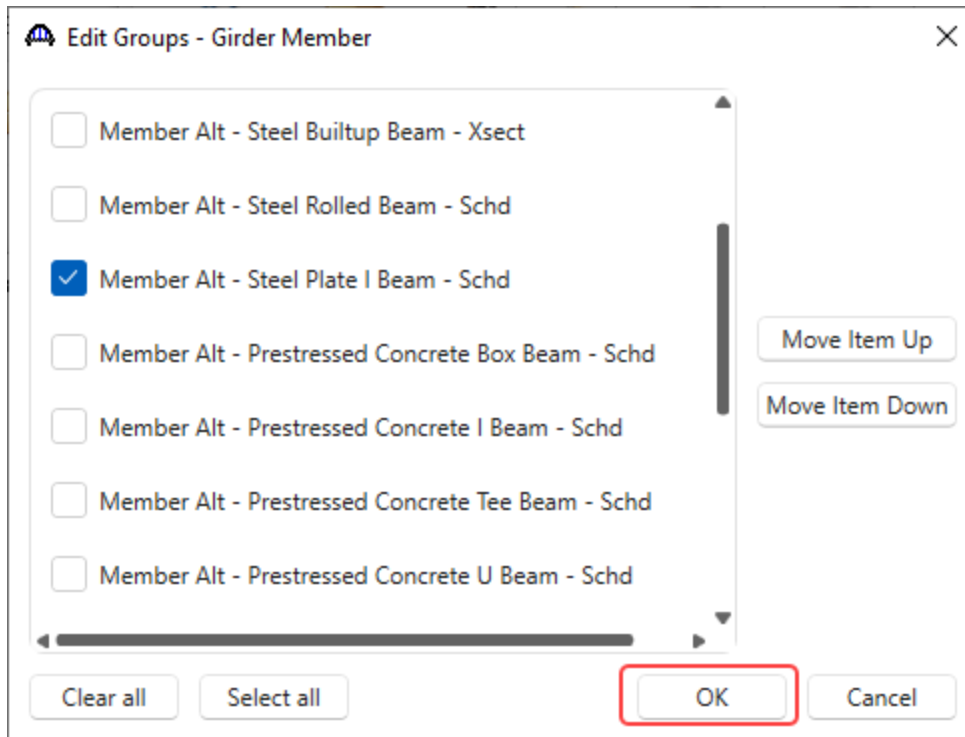


Expand the **Girder System Structure Def** group to view the **Girder Member** group as shown below.

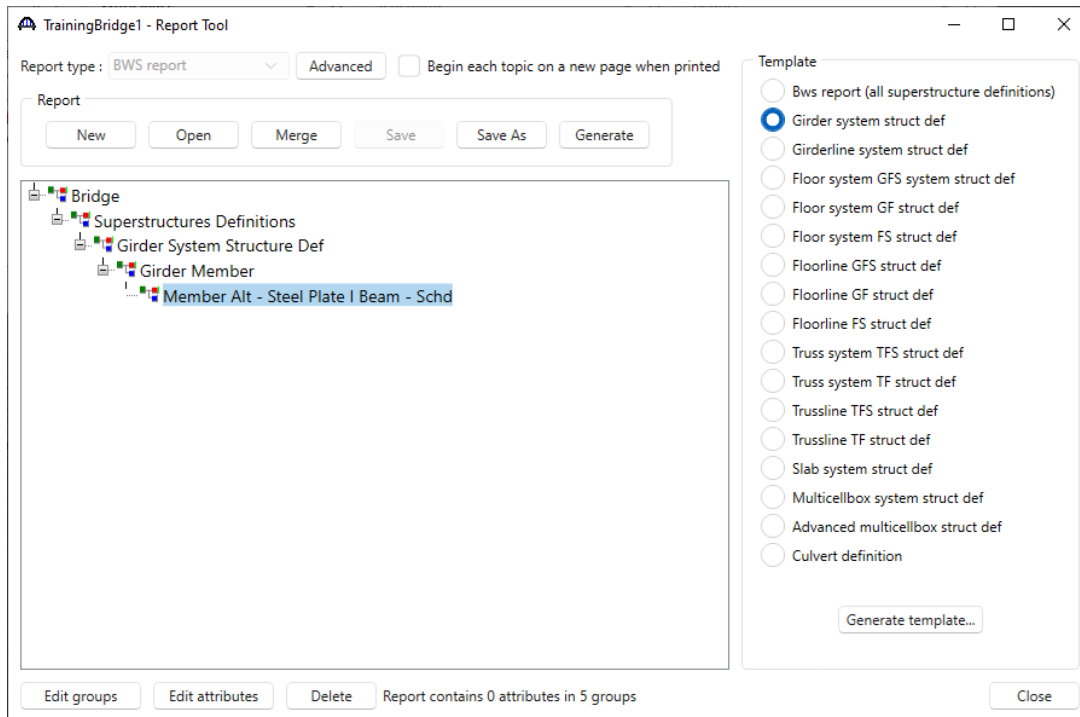


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Select the **Girder Member** group and click on the **Edit groups** button. Select the check box next to the **Member Alt-Steel Plate I Beam - Schd** group and click **OK** to add this group to the report definitions and return to the **Report Tool**.

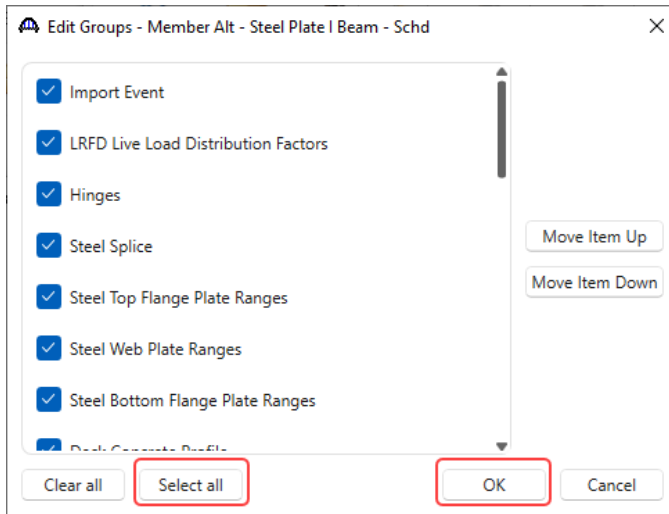


Expand the **Girder Member** group to view the **Member Alt-Steel Plate I Beam - Schd** group as shown below.

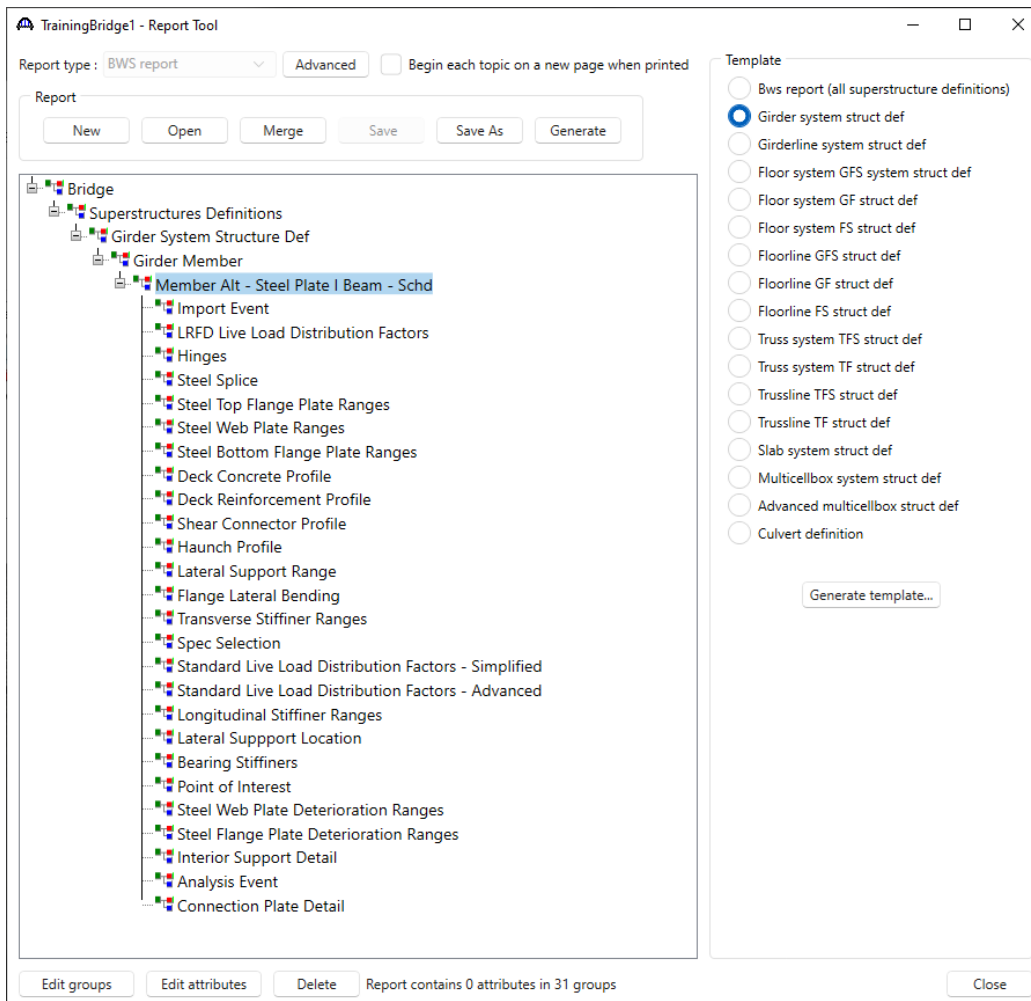


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Select the **Member Alt-Steel Plate I Beam - Schd** group and click on the **Edit groups** button. Click on the **Select All** button. Click **OK** to add all the groups to the report definitions and return to the **Report Tool**.



Expand the **Member Alt-Steel Plate I Beam - Schd** group to view all the added groups as shown below.



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Delete groups and attributes

Select the **Import Event** group and click on the **Delete** button to delete the selected group from the report definition.

Select the **Hinges** group and click on the **Delete** button to delete the selected group from the report definition.

Select the **Deck Reinforcement Profile** group and click on the **Delete** button to delete the selected group from the report definition.

Select the **Longitudinal Stiffener Ranges** group and click on the **Delete** button to delete the selected group from the report definition.

Select the **Steel Web Plate Deterioration Ranges** group and click on the **Delete** button to delete the selected group from the report definition.

Select the **Steel Flange Plate Deterioration Ranges** group and click on the **Delete** button to delete the selected group from the report definition.

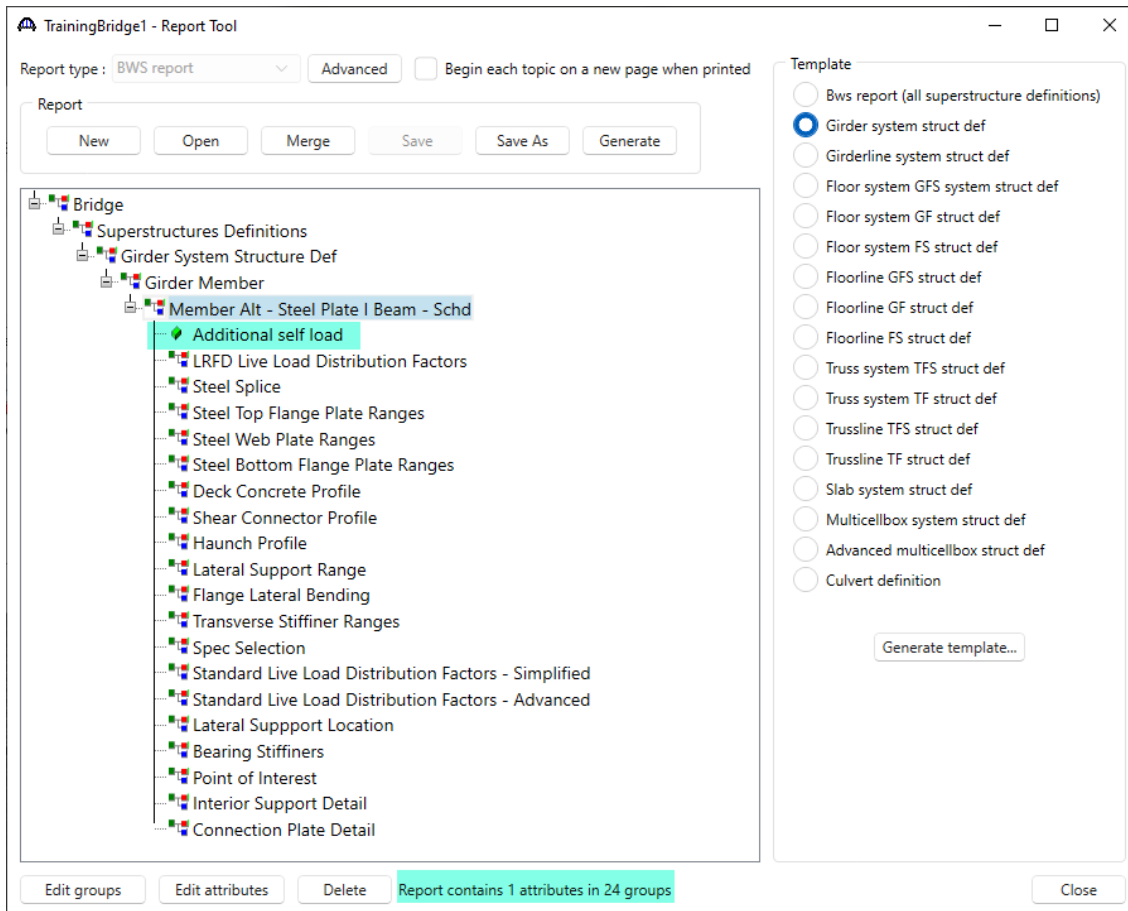
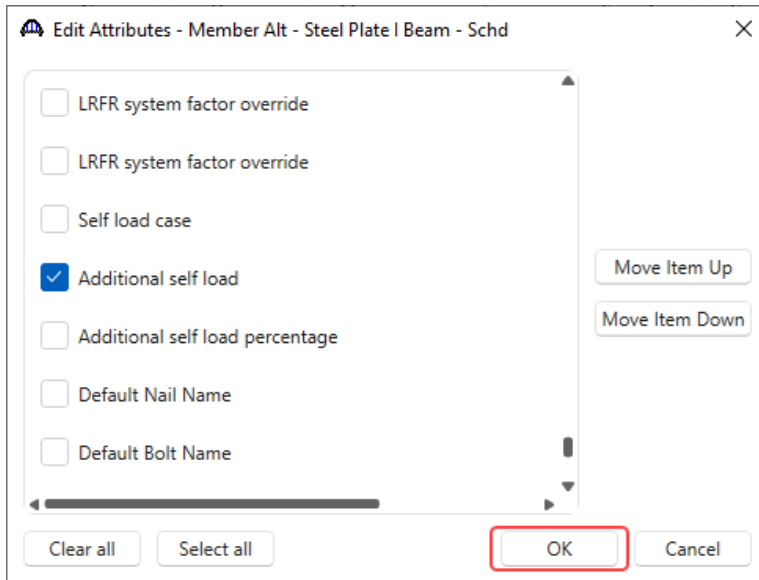
Select the **Analysis Event** group and click on the **Delete** button to delete the selected group from the report definition.

The updated **Member Alt – Steel Plate I Beam – Schd** group is shown below.

The screenshot displays the 'TrainingBridge1 - Report Tool' window. At the top, the 'Report type' is set to 'BWS report' with a dropdown arrow. To its right are 'Advanced' and 'Begin each topic on a new page when printed' (unchecked) options. Below this is a 'Report' section with buttons for 'New', 'Open', 'Merge', 'Save', 'Save As', and 'Generate'. The main area is a tree view under 'Bridge' containing 'Superstructures Definitions', 'Girder System Structure Def', and 'Girder Member'. Under 'Girder Member', the 'Member Alt - Steel Plate I Beam - Schd' group is selected and highlighted in blue. This group contains 24 sub-items: LRFD Live Load Distribution Factors, Steel Splice, Steel Top Flange Plate Ranges, Steel Web Plate Ranges, Steel Bottom Flange Plate Ranges, Deck Concrete Profile, Shear Connector Profile, Haunch Profile, Lateral Support Range, Flange Lateral Bending, Transverse Stiffener Ranges, Spec Selection, Standard Live Load Distribution Factors - Simplified, Standard Live Load Distribution Factors - Advanced, Lateral Support Location, Bearing Stiffeners, Point of Interest, Interior Support Detail, and Connection Plate Detail. To the right is a 'Template' panel with radio buttons for various report templates. The 'Girder system struct def' template is selected. A 'Generate template...' button is at the bottom of this panel. At the bottom of the window, there are buttons for 'Edit groups', 'Edit attributes', 'Delete', and a status bar indicating 'Report contains 0 attributes in 24 groups'. A 'Close' button is in the bottom right corner.

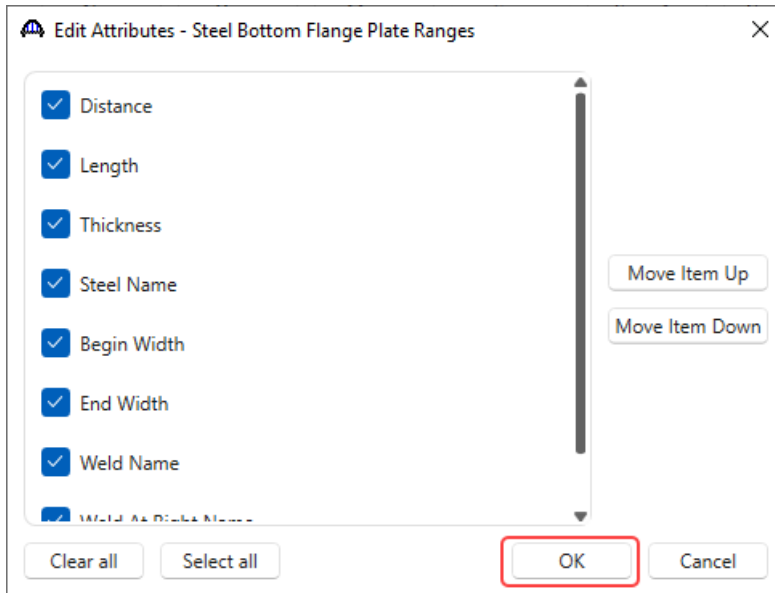
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Select the **Member Alt – Steel Plate I Beam – Schd** group and click on the **Edit attributes** button. Select the check box next to the **Additional self load** attribute. Click **OK** to add this attribute to the report definition and return to the **Report Tool**.

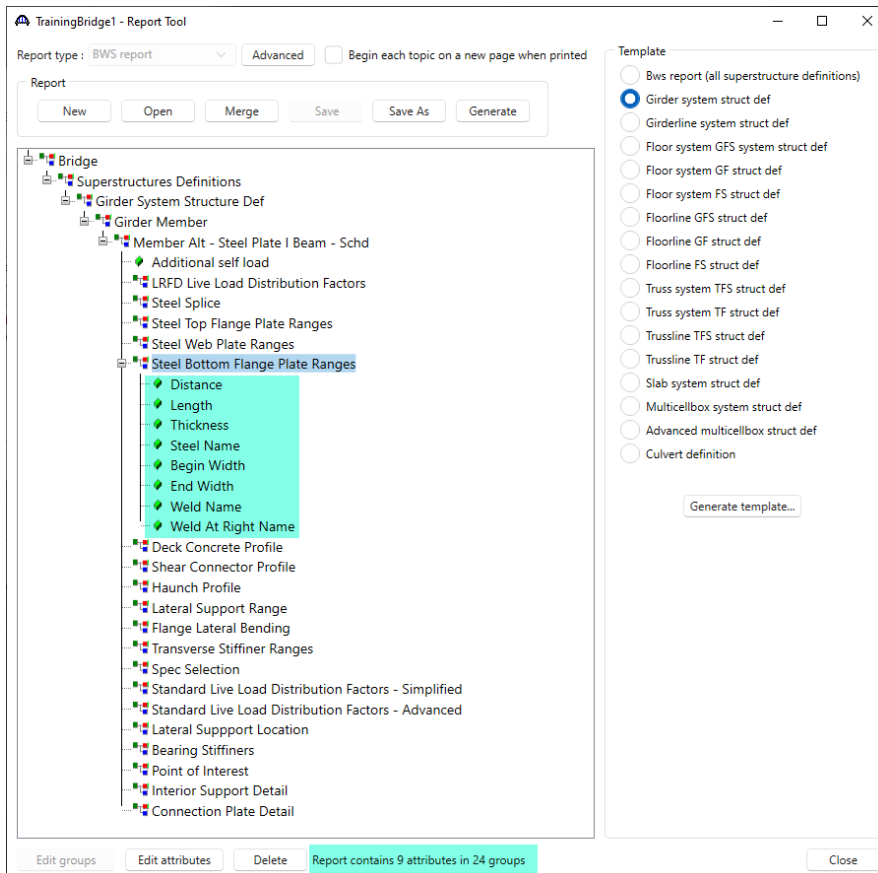


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Select the **Steel Bottom Flange Plate Ranges** group and click on the **Edit attributes** button. Click on the **Select All** Button, click **OK** to add all the attributes in the **Steel Bottom Flange Plate Ranges** group to the report definition and return to the **Report Tool**.

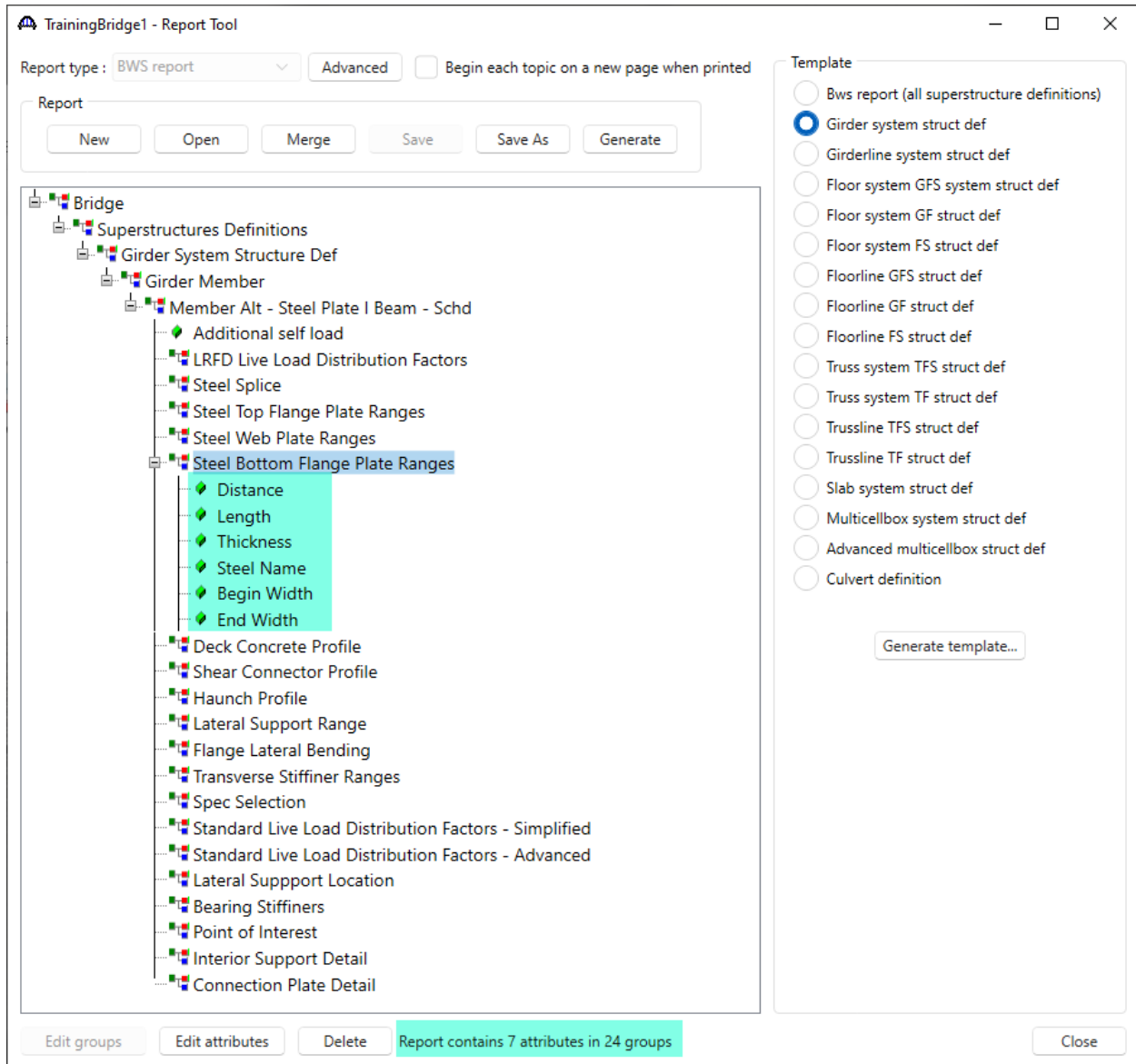


Expand the **Steel Bottom Flange Plate Ranges** group to view all the added attributes as shown below.



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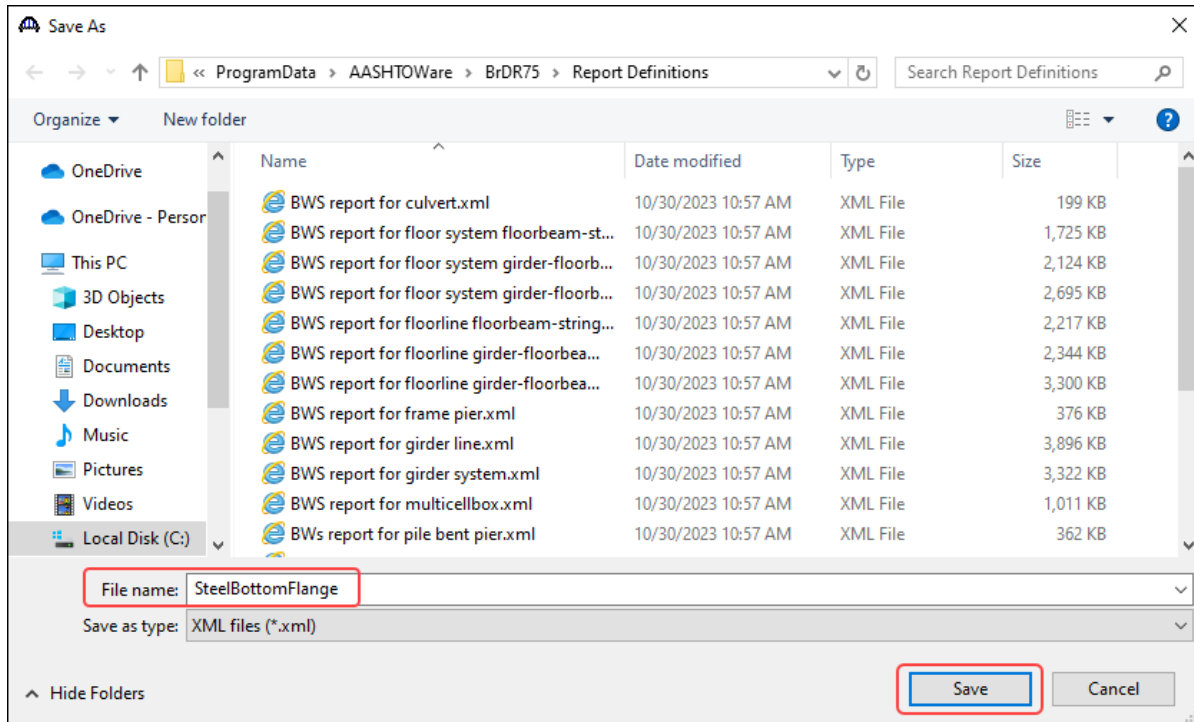
Select the **Weld At Right Name** attribute under **Steel Bottom Flange Plate Ranges** group and click on the **Delete** button to delete the **Weld At Right Name** attribute from the report definition. Similarly delete the **Weld Name** attribute as well. The updated **Report Tool** window is shown below.



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Save the selected groups and attributes to a report definition file

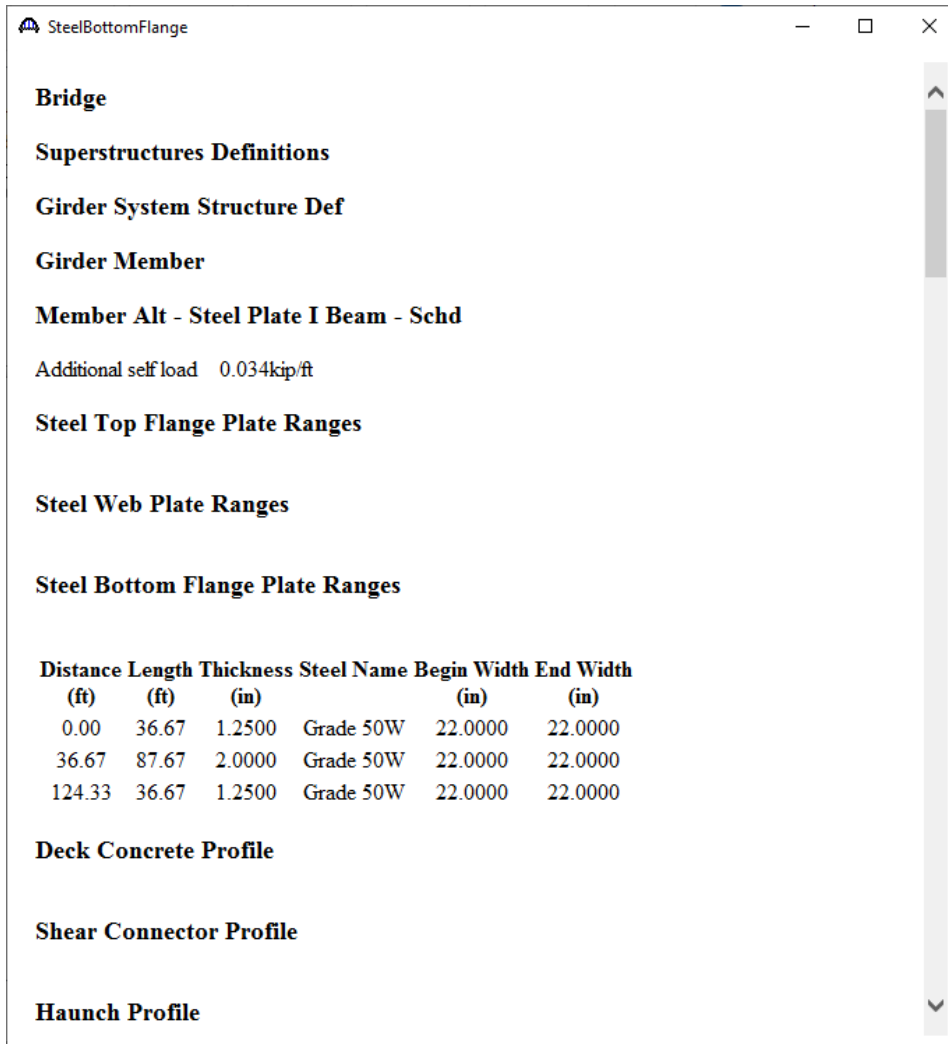
To save the selected groups and attributes to a report definition file, click on the **Save As** button and enter **SteelBottomFlange** as the **File name**. Click **Save** to save the report definition to a **SteelBottomFlange.xml** file.



RPT – Report Tool Example

Generate a report

Click on the **Generate** button in the **Report Tool** window to generate a report for **TrainingBridge1**. The report is based on the selected groups and attributes in the report definition.



The screenshot shows a window titled "SteelBottomFlange" with a scrollable report. The report content is as follows:

Bridge

Superstructures Definitions

Girder System Structure Def

Girder Member

Member Alt - Steel Plate I Beam - Schd

Additional self load 0.034kip/ft

Steel Top Flange Plate Ranges

Steel Web Plate Ranges

Steel Bottom Flange Plate Ranges

| Distance (ft) | Length (ft) | Thickness (in) | Steel Name | Begin Width (in) | End Width (in) |
|---------------|-------------|----------------|------------|------------------|----------------|
| 0.00 | 36.67 | 1.2500 | Grade 50W | 22.0000 | 22.0000 |
| 36.67 | 87.67 | 2.0000 | Grade 50W | 22.0000 | 22.0000 |
| 124.33 | 36.67 | 1.2500 | Grade 50W | 22.0000 | 22.0000 |

Deck Concrete Profile

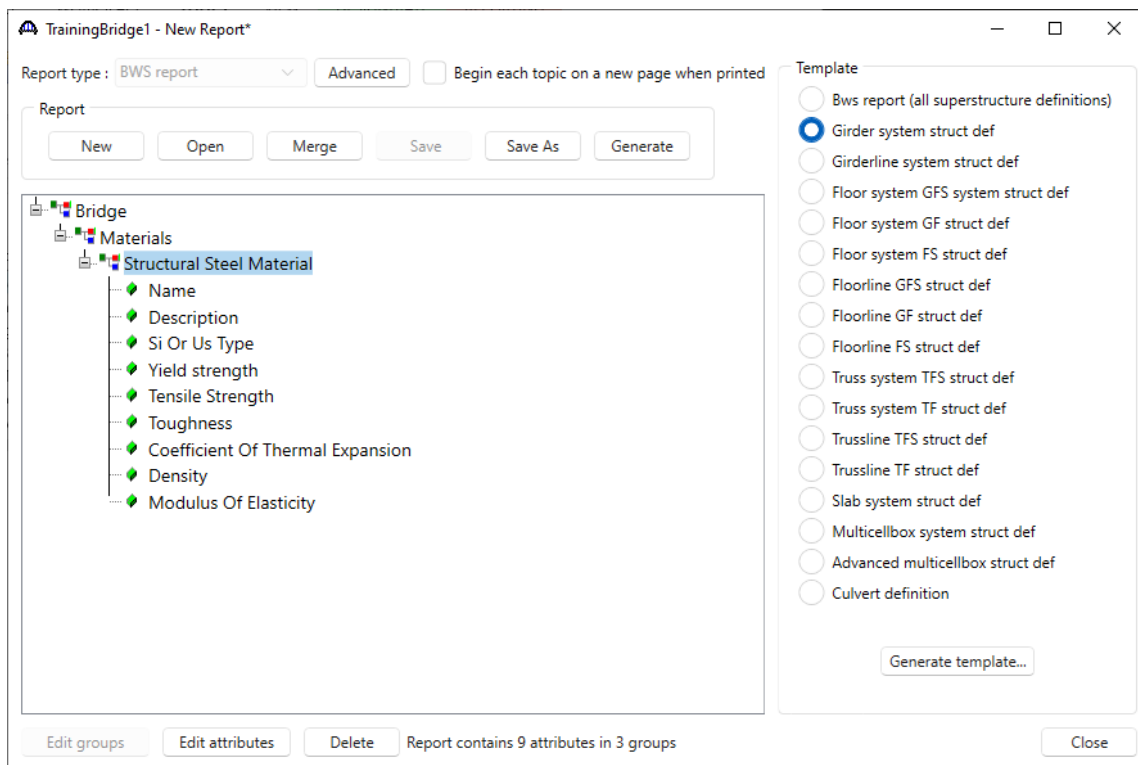
Shear Connector Profile

Haunch Profile

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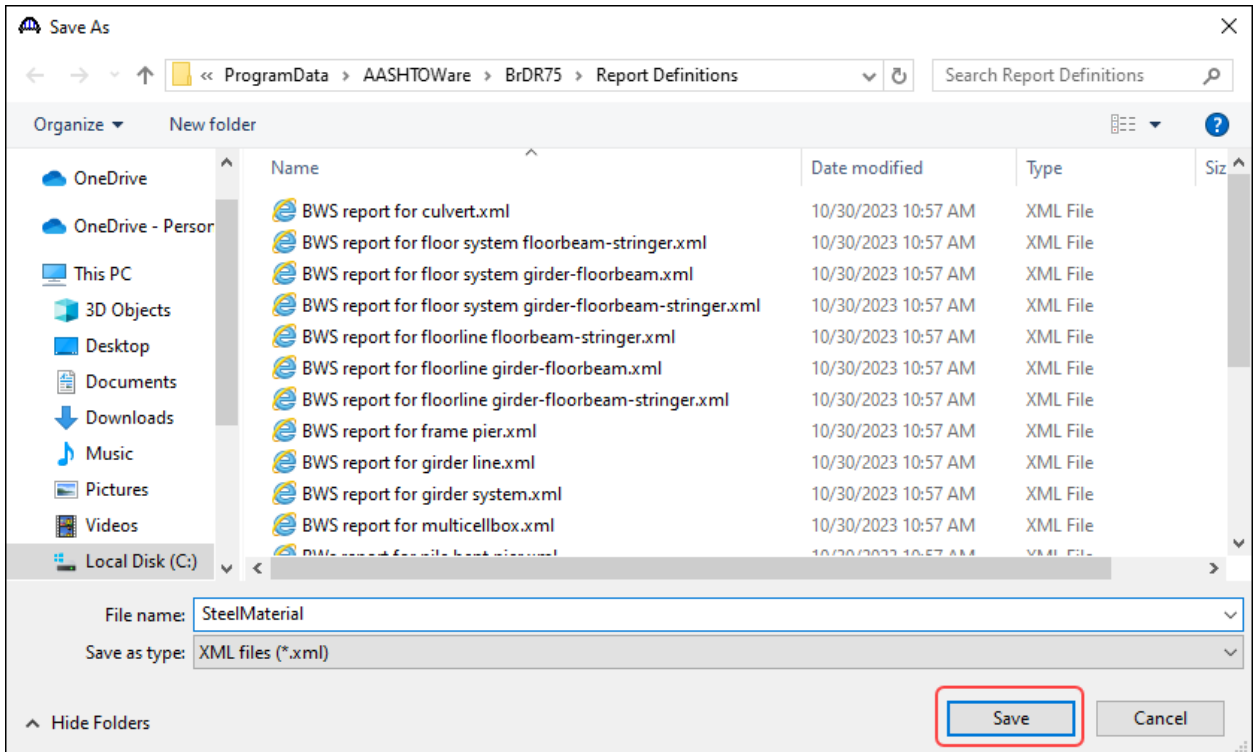
Merge two report definition files

1. Click on the **New** button to create a new report definition.
2. Click on the **Edit groups** button and select the check box next to the **Bridge** group. Click **OK** to add the **Bridge** group to the report definition and return to the **Report Tool**.
3. Select the **Bridge** group and click on the **Edit groups** button. Select the check box next to the **Materials** group. Click **OK** to add the **Materials** group to the report definition and return to the **Report Tool**. Expand the **Bridge** group.
4. Select the **Materials** group and click on the **Edit groups** button. Select the check box next to the **Structural Steel Material** group. Click **OK** to add the **Structural Steel Material** group to the report definition and return to the **Report Tool**.
5. Select the **Structural Steel Material** group and click on the **Edit attributes** button. Click on the **Select All** button. Click **OK** to add all the attributes in the **Structural Steel Material** group to the report definition and return to the **Report Tool**. Expand the **Structural Steel Material** group.



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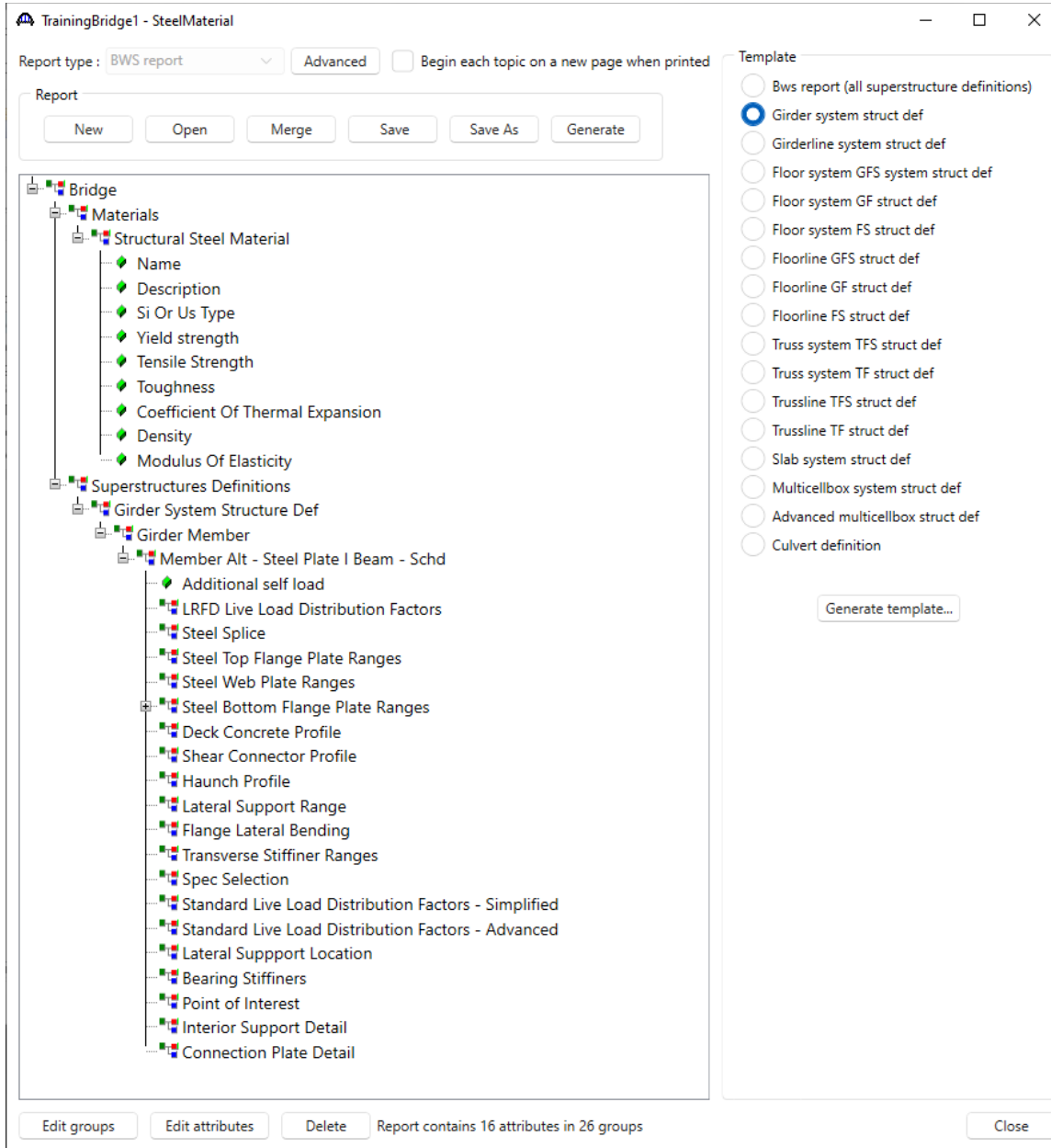
- Click on the **Save As** button and enter **SteelMaterial** as the **File name** edit box. Click **Save** to save the report definition to **SteelMaterial.xml** file.



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Click on the **Merge** button and select the **SteelBottomFlange.xml** to merge this template with the **SteelBottomFlange.xml** template.

Now in the **Report Tool** window, the **SteelMaterial** template is merged with the **SteelBottomFlange** template as shown below.



Click **Save** to save the merged report definition to **SteelMaterial.xml** file. Or click **Save As** to save to another report definition file.