AASHTOWare BrDR 7.5.0

Feature Tutorial

LS1 – Limit State Selection

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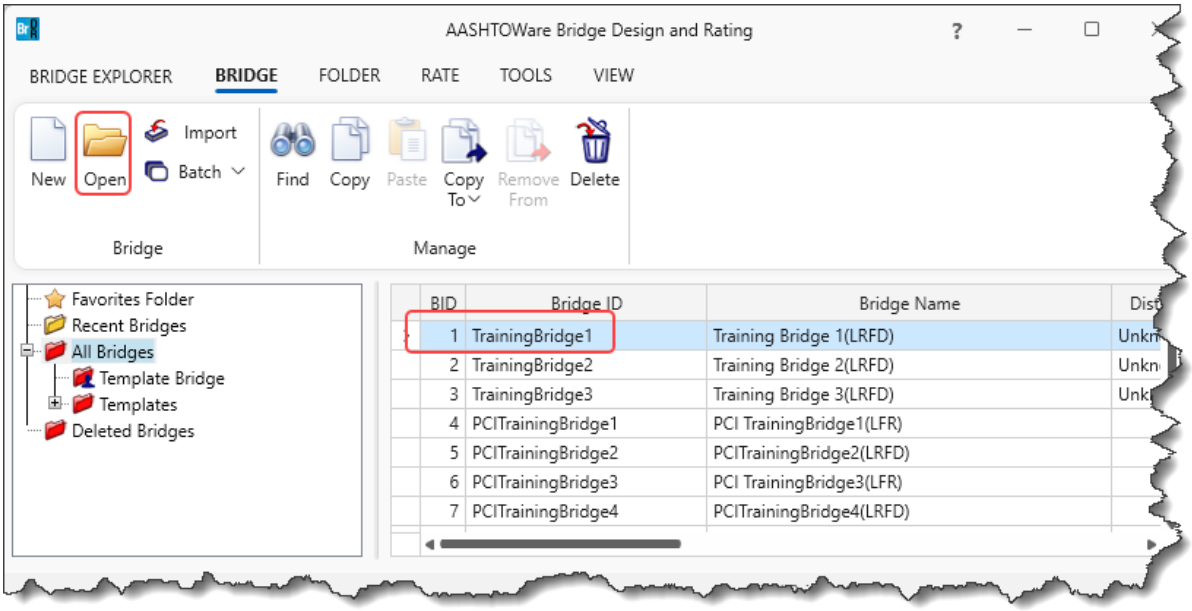
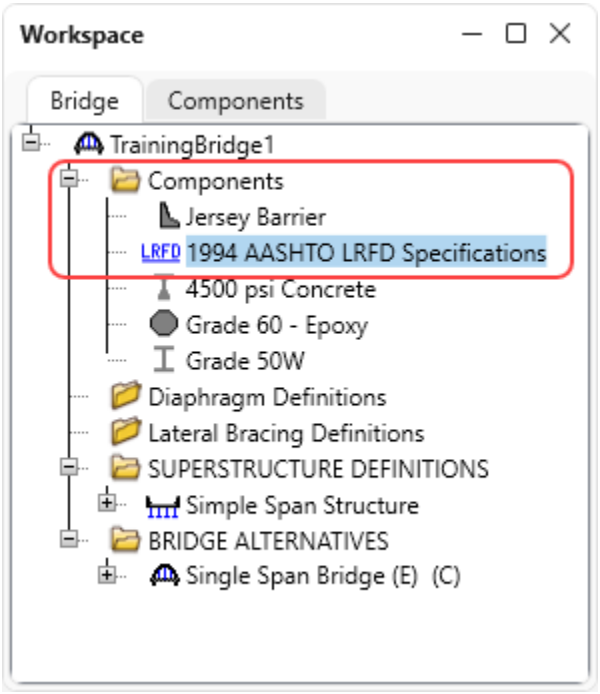
This example describes the selection of limit states for an LRFD spec check analysis. This example assumes you have access to **TrainingBridge1 (BID1)** provided in the sample database included with the software installation.

Select limit states for LRFD spec check analysis

From the **Bridge Explorer**, double click on **BID1 - TrainingBridge1** (or select and click **Open** from the **Bridge** group of the **BRIDGE** ribbon) to open the bridge.



From the **Bridge Workspace** tree, expand the **Components** folder and double click ok the **LRFD** factors window – **1994 AASHTO LRFD Specifications** as shown below.



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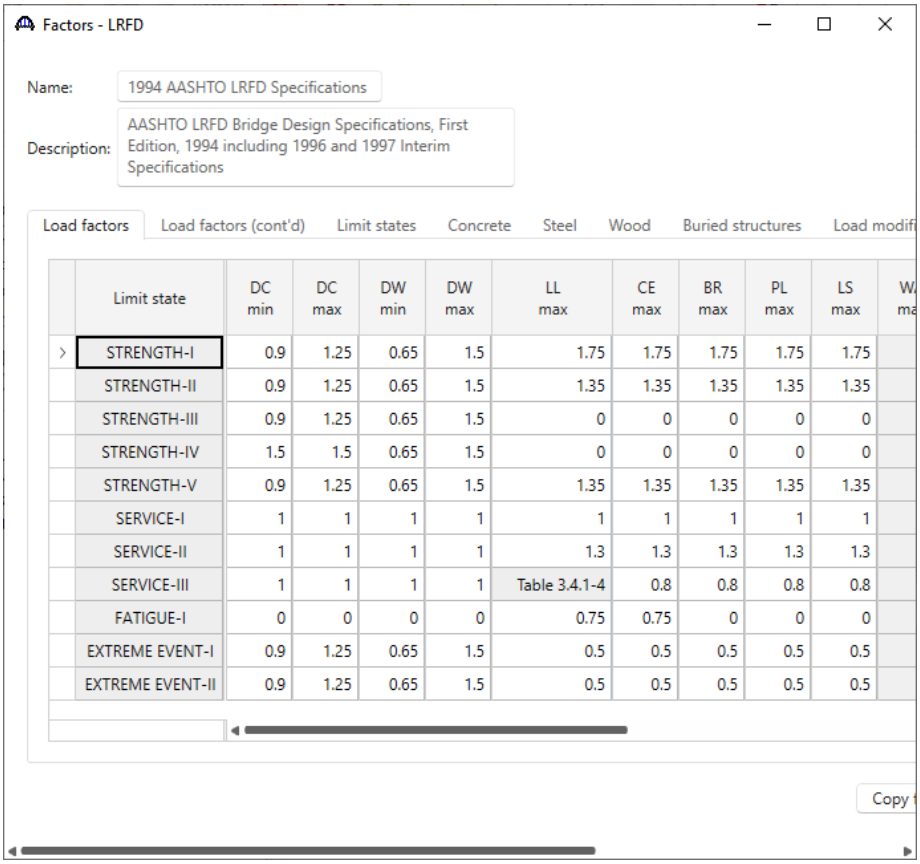
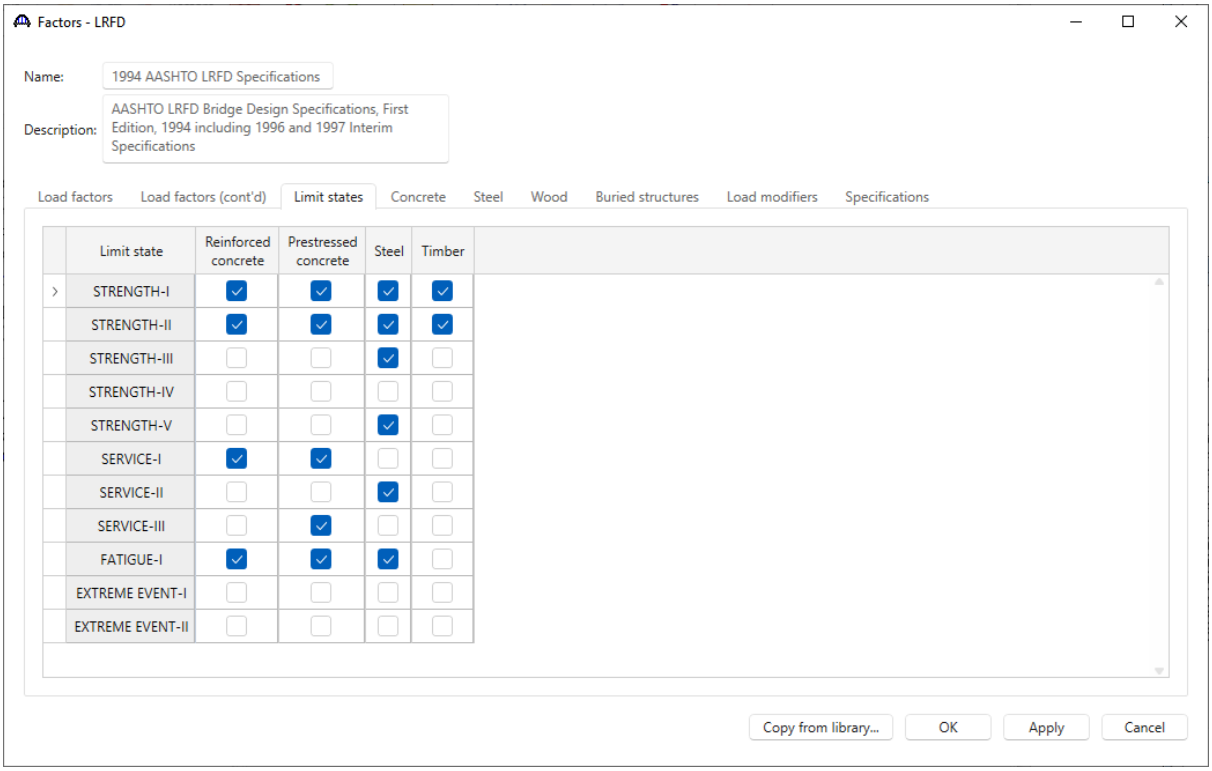
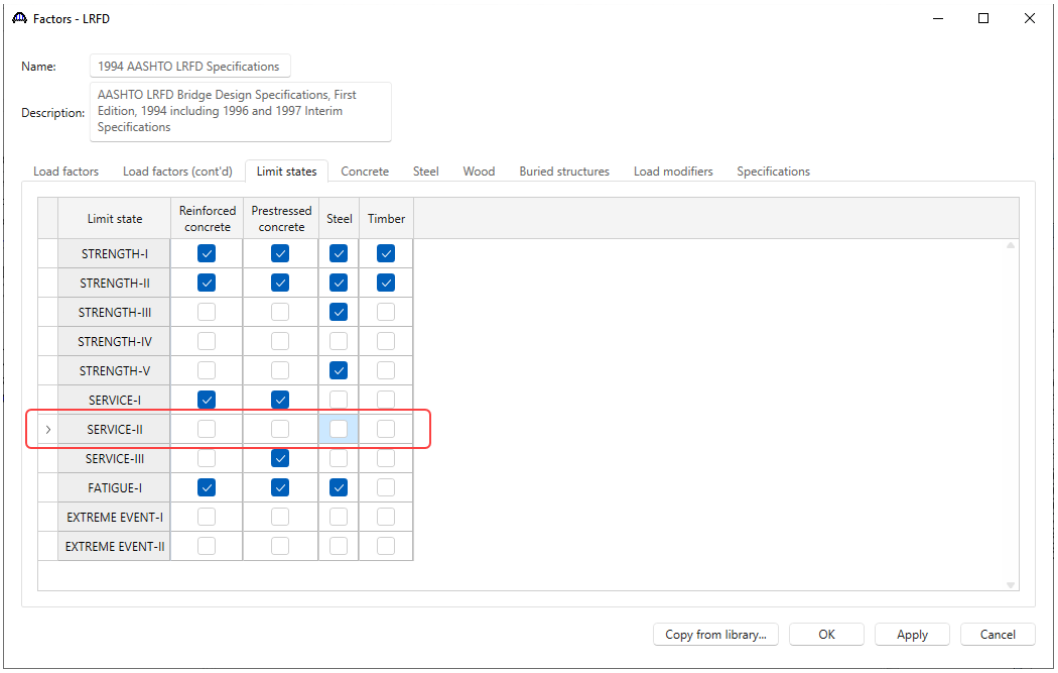


Navigate to the **Limit Sates** tab. Default limit state selections are as shown below.

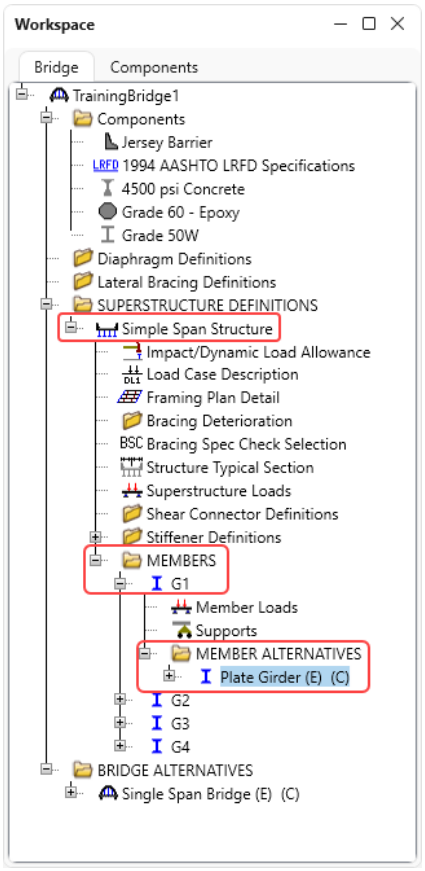


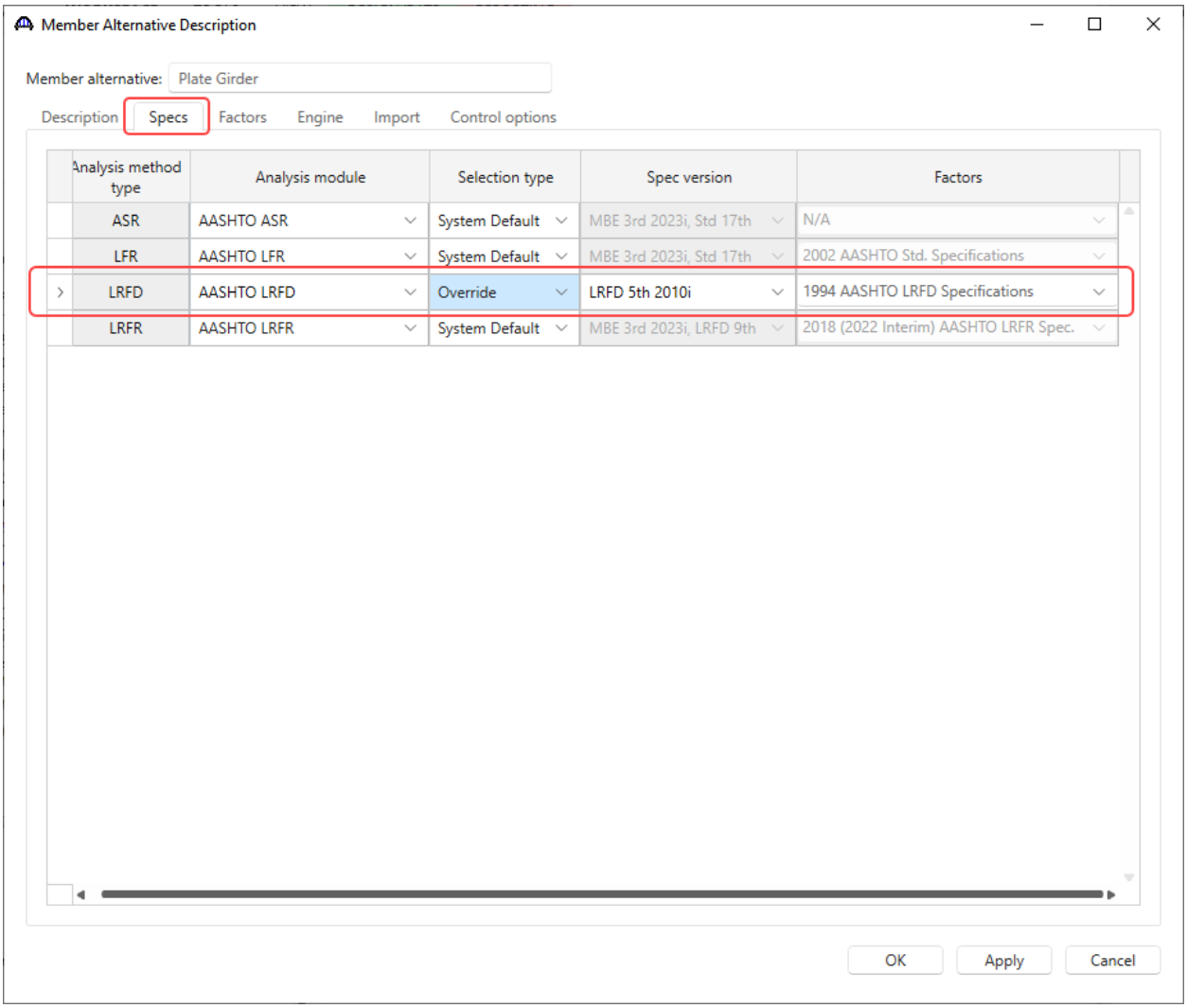
Uncheck **SERVICE-II** limit state in the **Steel** column.



Click **OK** to apply the data and close the window.

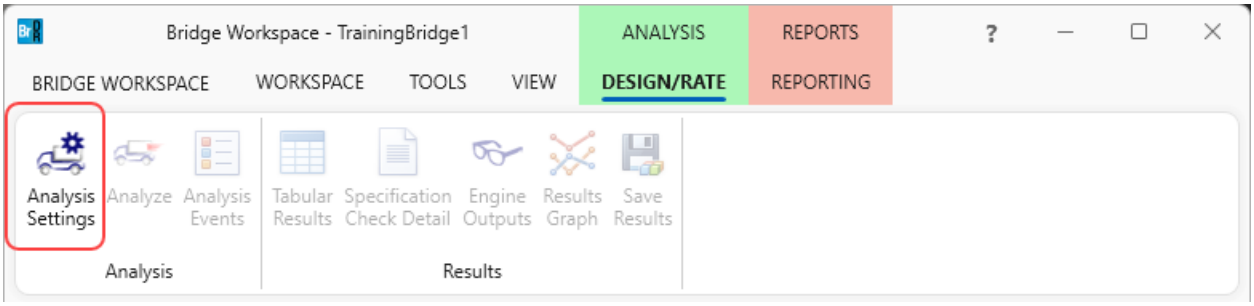
Open the member alternative window of **Simple Span Structure/G1/Plate Girder**, select the **Spec** tab, and change the LRFD spec selections as shown in the following windows.



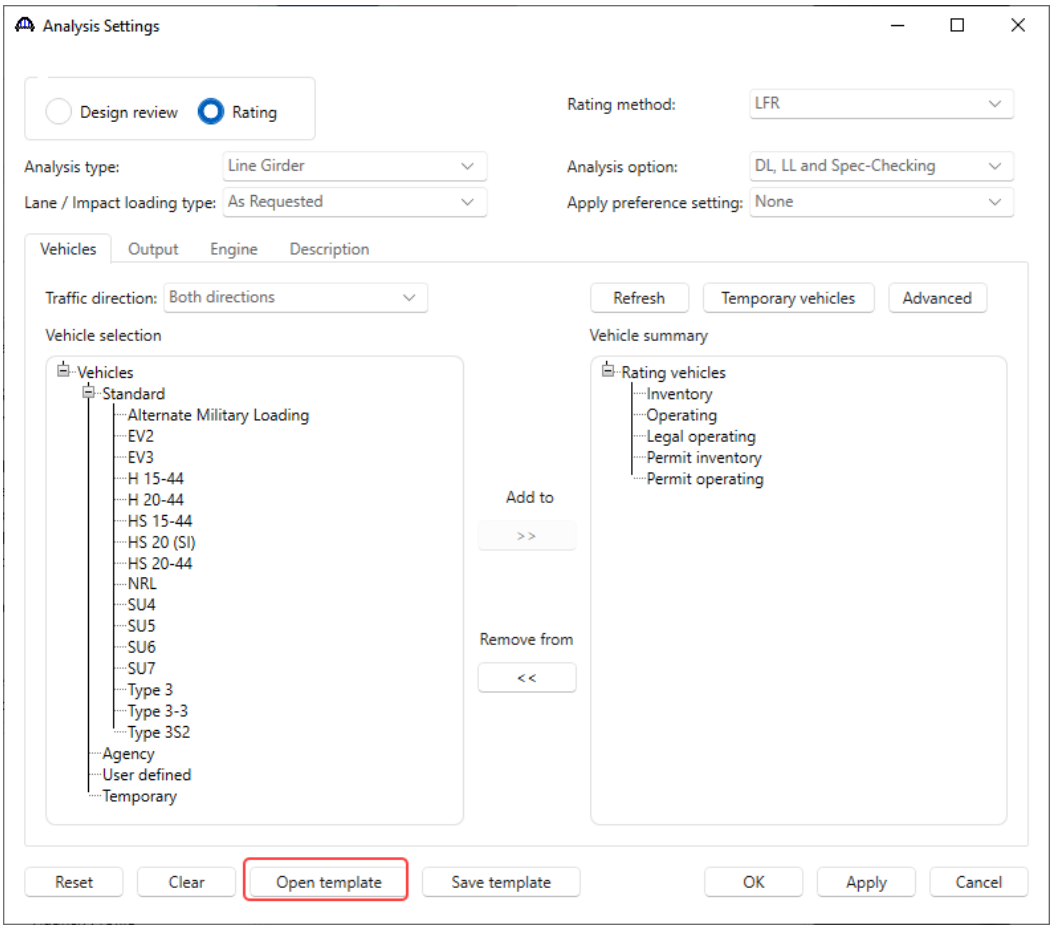


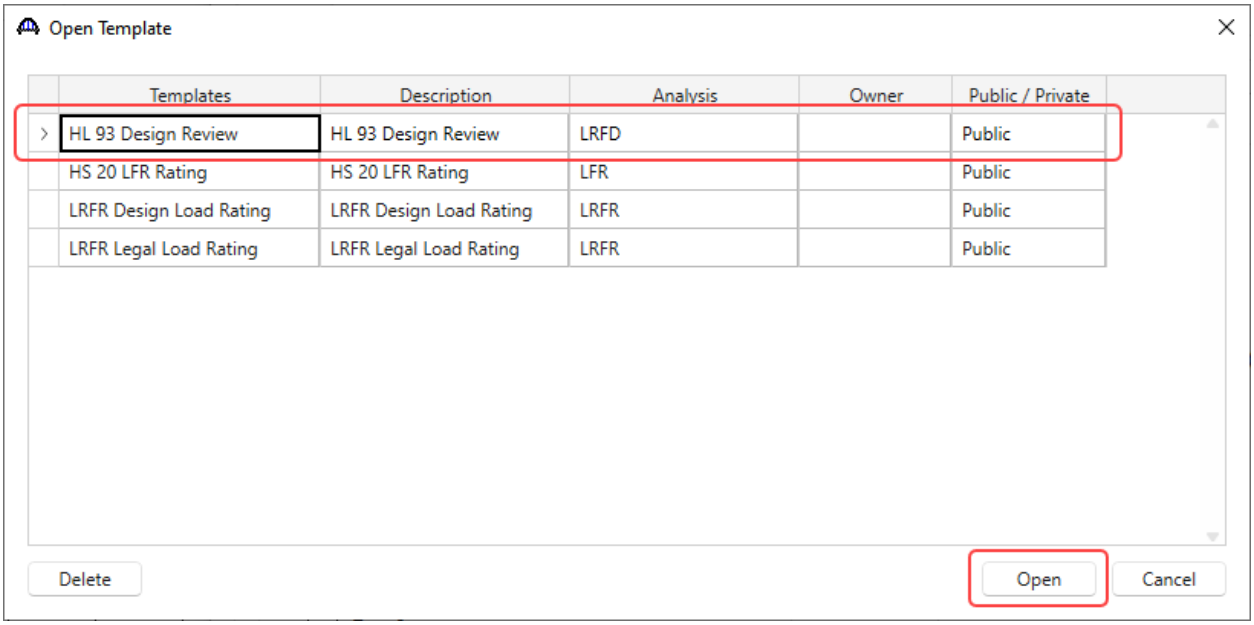
Click **OK** to apply the changes and close the window.

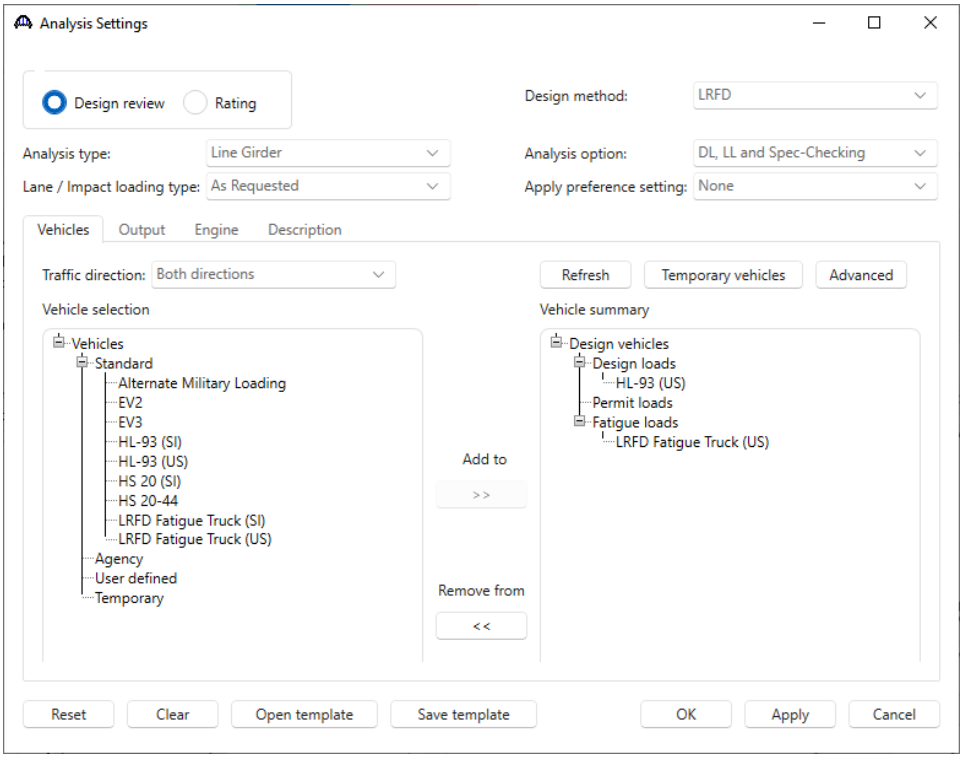
From the **Analysis** group of the **DESIGN/RATE** ribbon, click on the **Analysis Settings** button as shown below.



Click on the **Open template** button in the **Analysis Settings** window. Select the **HL 93 Design Review** template. The updated **Analysis Settings** window is shown below.

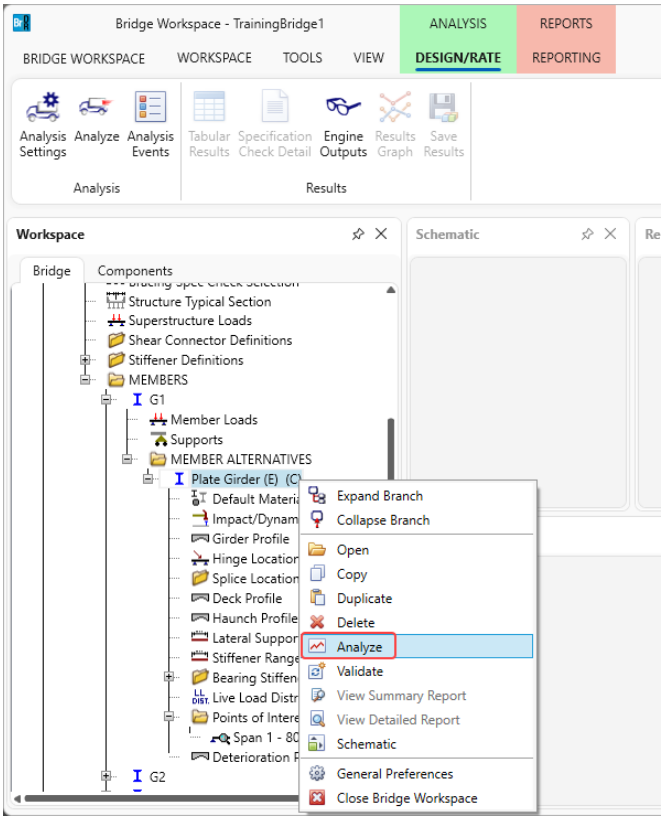






Click **OK** to apply the settings and close the window.

To analyze, right click on **Plate Girder** and select **Analyze**.



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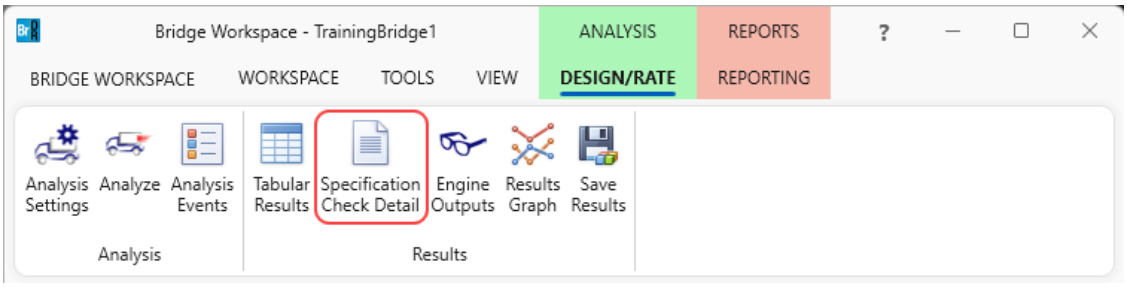
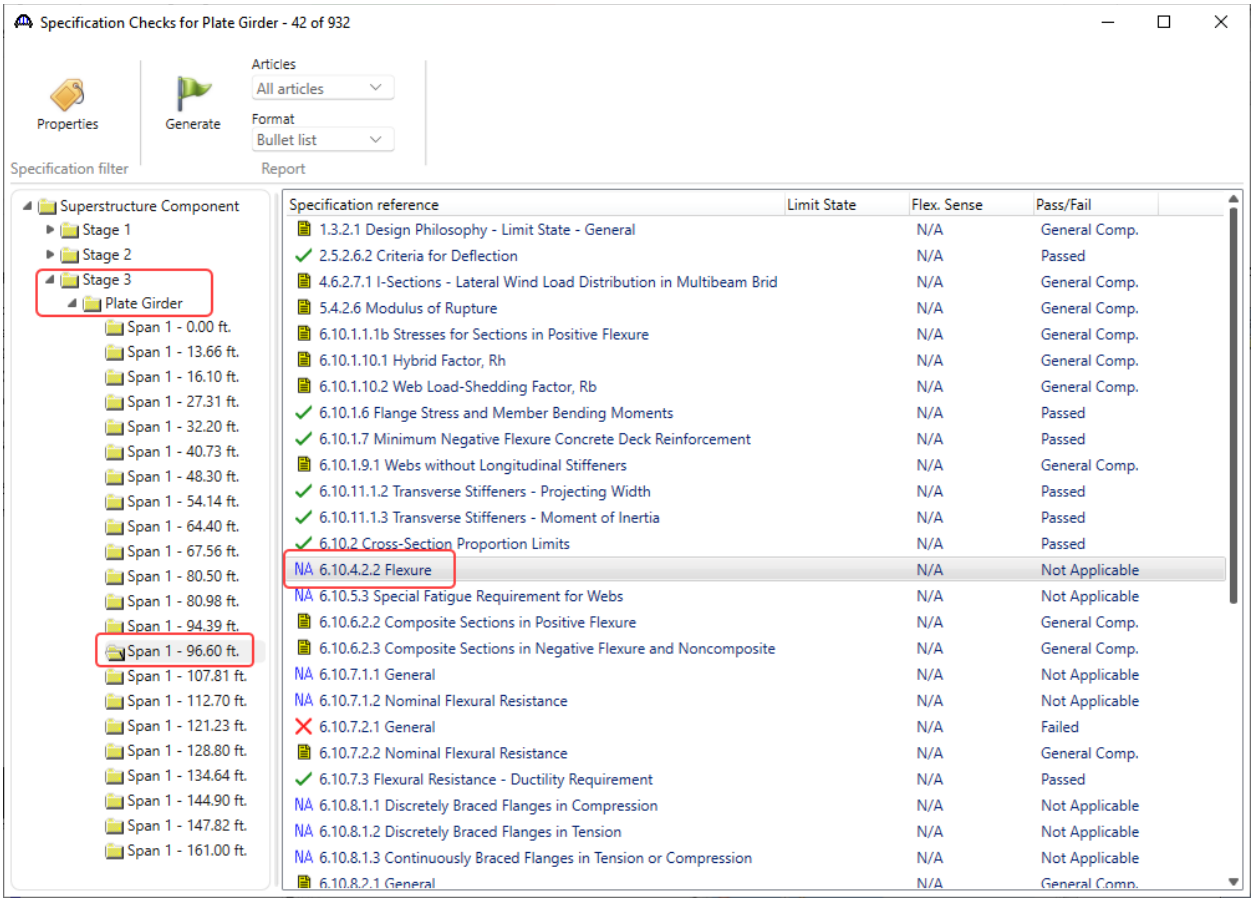
After the LRFD analysis is completed, click on the **Specification Check Detail** button from the **Results** group of the **DESIGN/RATE** ribbon and navigate to **Stage 3->Plate Girder->Span 1 96.60 ft. -> 6.10.4.2.2 Flexure**.





Since Service –II limit state is not selected for LRFD spec check, article 6.10.4.2.2 is not applicable.