
AASHTOWare BrDR 7.5.1
Report Tutorial
Substructure Results Report

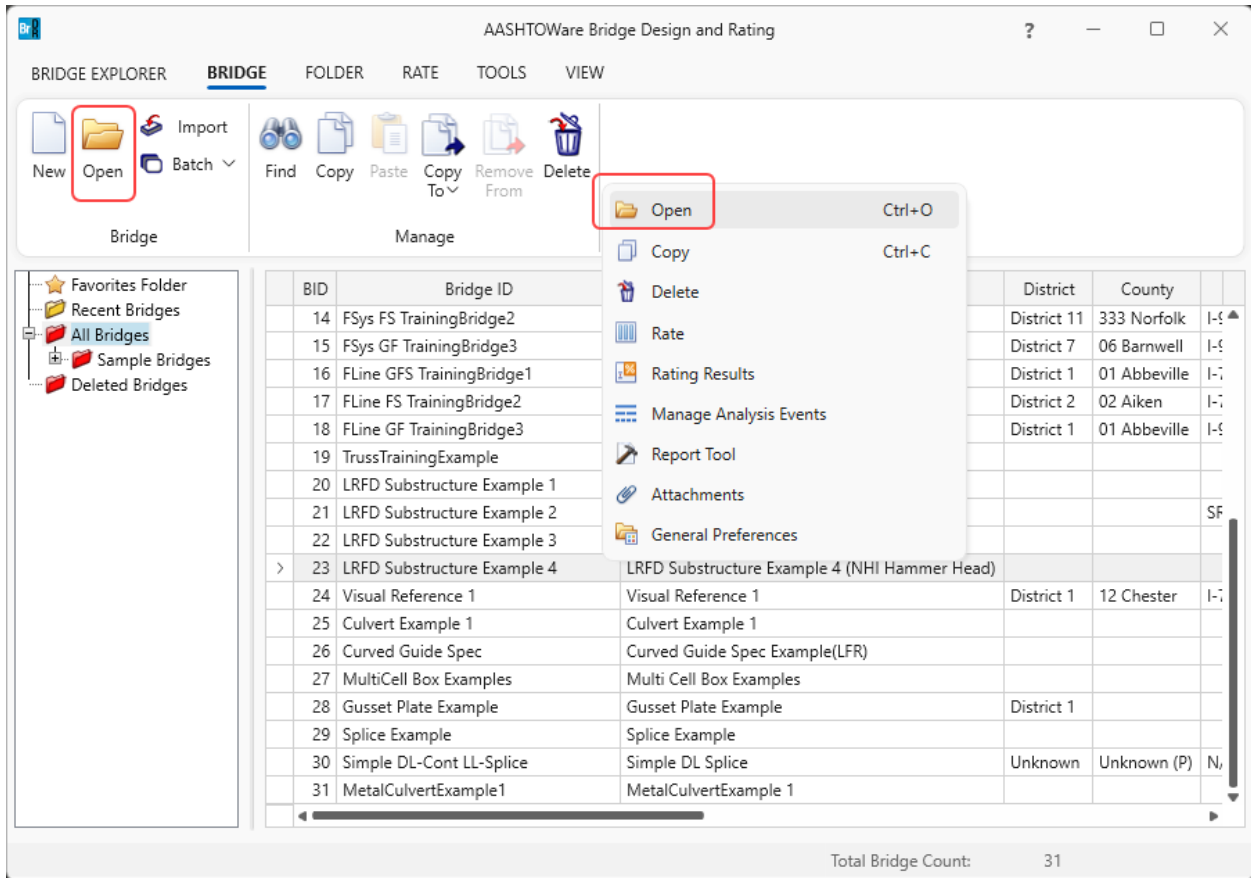
Substructure Results Report

Note: This tutorial is available from version 7.5.1 onward.

Topics Covered

- Table of Contents feature in substructure results report.

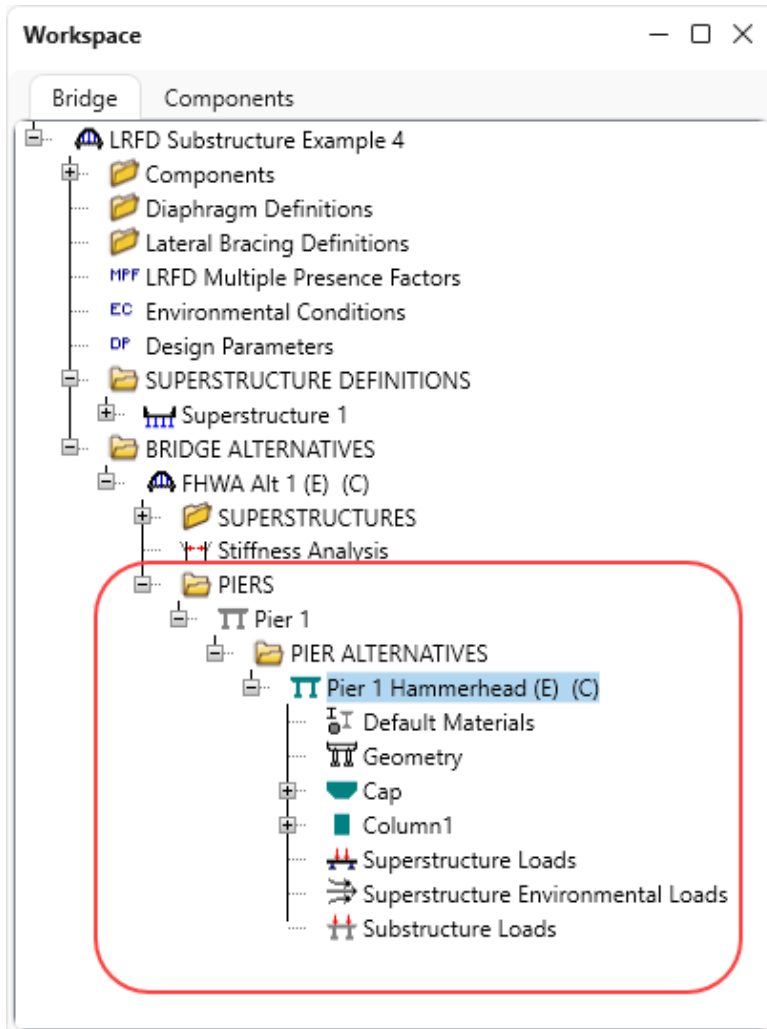
From the **Bridge Explorer**, select **LRFD Substructure Example 4 (BID23)** and double click (or right click and select **Open**, or select and click on the **Open** button from the **BRIDGE** ribbon) to open it as shown below.



Substructure Results Report

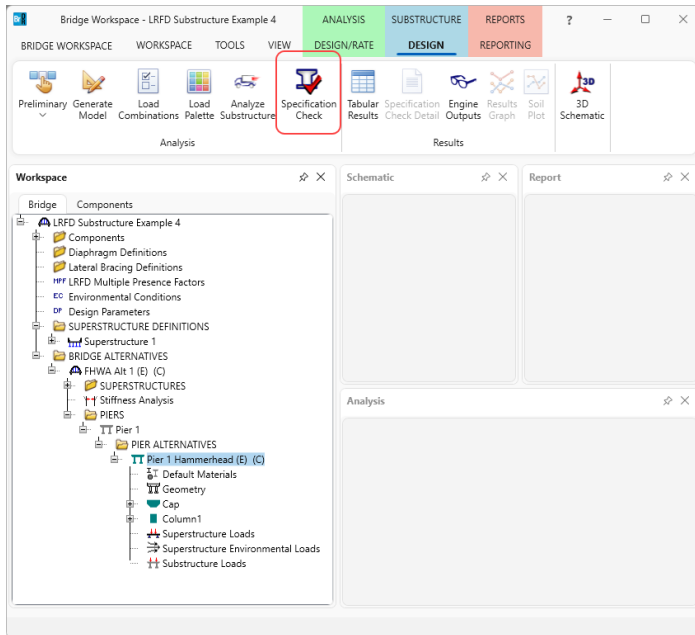
Expand **PIERS** -> **Pier1** -> **PIER ALTERNATIVES** -> **Pier 1 Hammerhead** nodes in the **Bridge Workspace** tree.

The partially expanded **Bridge Workspace** is shown below.

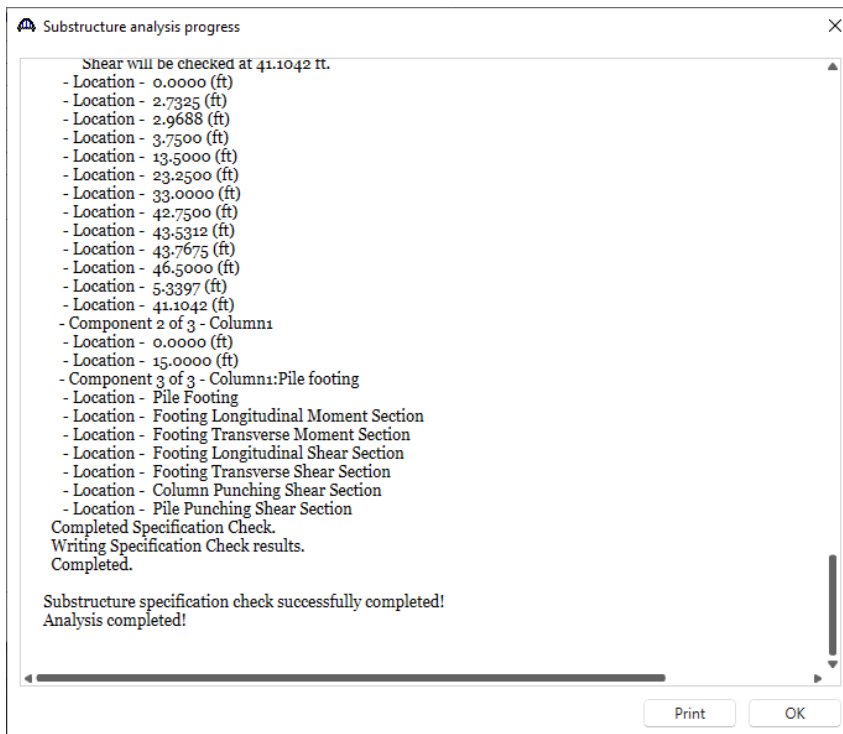


Substructure Results Report

With the Pier alternative **Pier 1 Hammerhead** selected, click on the **Specification Check** button from the **Analysis** group of the **SUBSTRUCTURE DESIGN** ribbon to run a specification check analysis for this pier alternative as shown below.

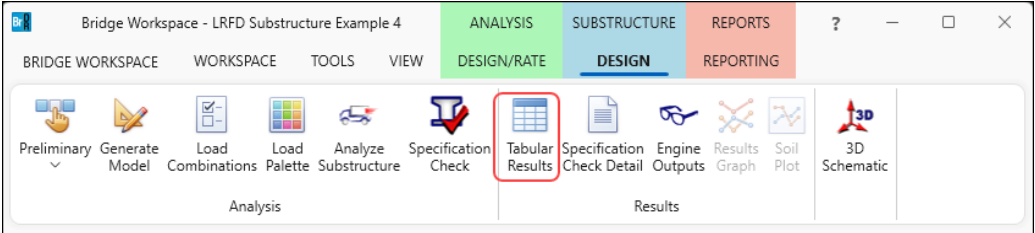


After the specification check is initialized, the bridge validation window will be displayed. Once the bridge validation is completed, click on the **Continue spec check** button to perform a specification check analysis. After the **Continue spec check** button is clicked the **Substructure analysis progress** window will be populated as shown below.

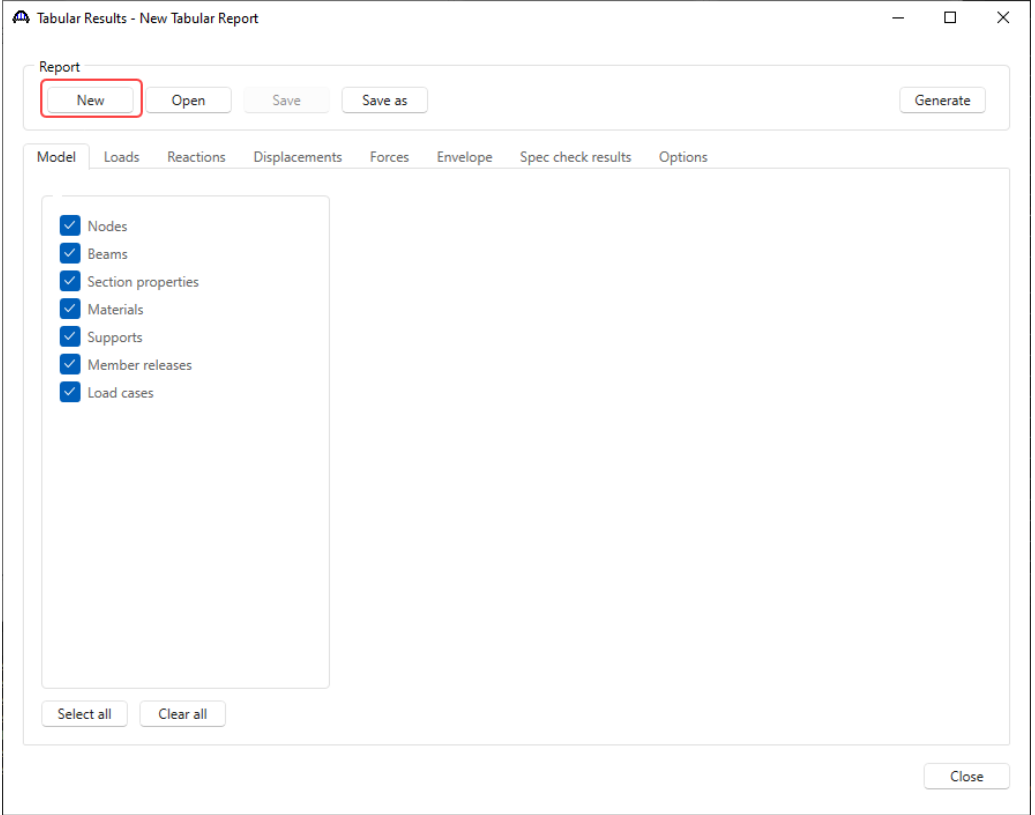


Substructure Results Report

After the substructure specification check is completed, click on the **OK** button to close the window. Then click on the **Tabular Results** button from the **Results** group of the **SUBSTRUCTURE DESIGN** ribbon as shown below.

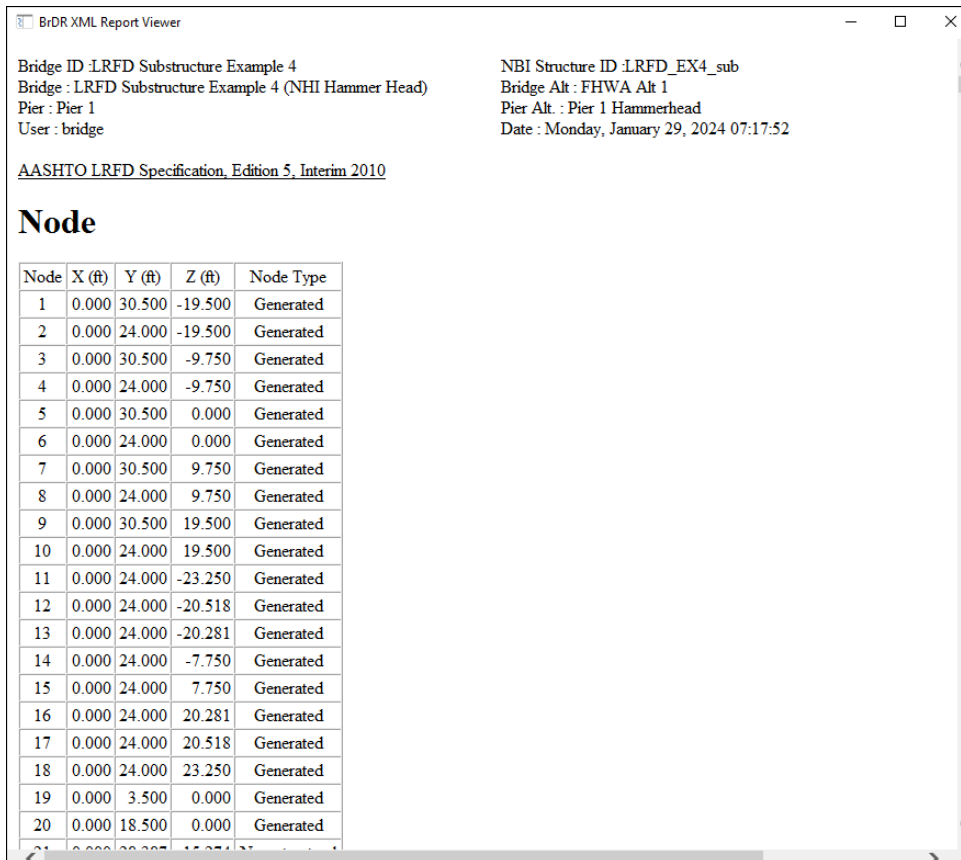
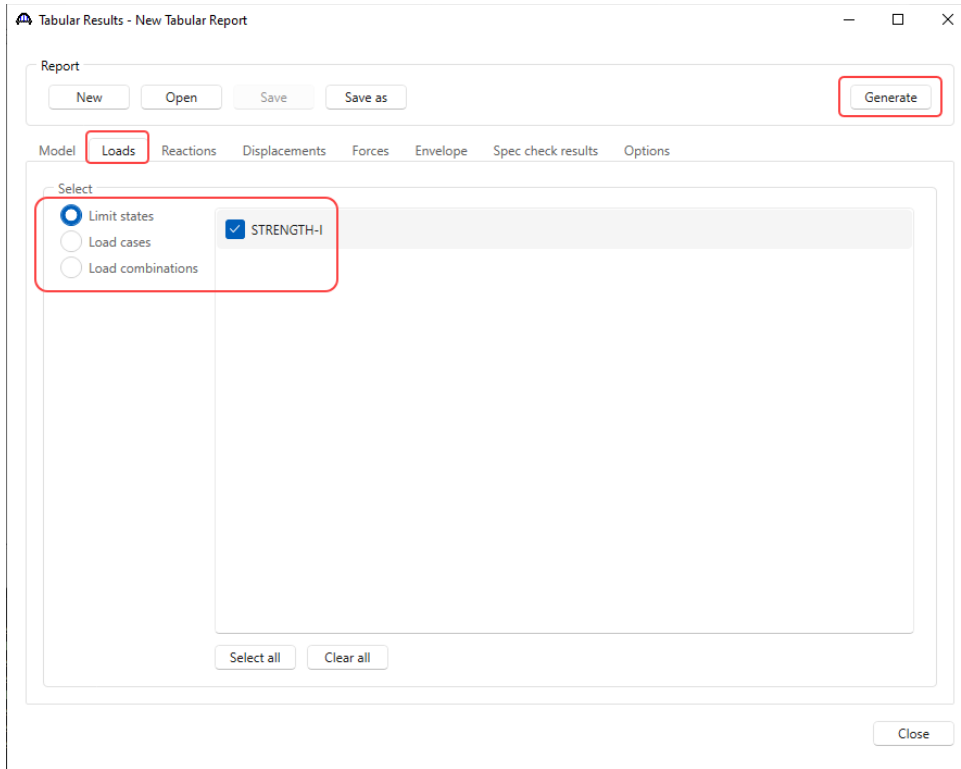


The following window appears. Click on the **New** button to open up a new report definition as shown below.



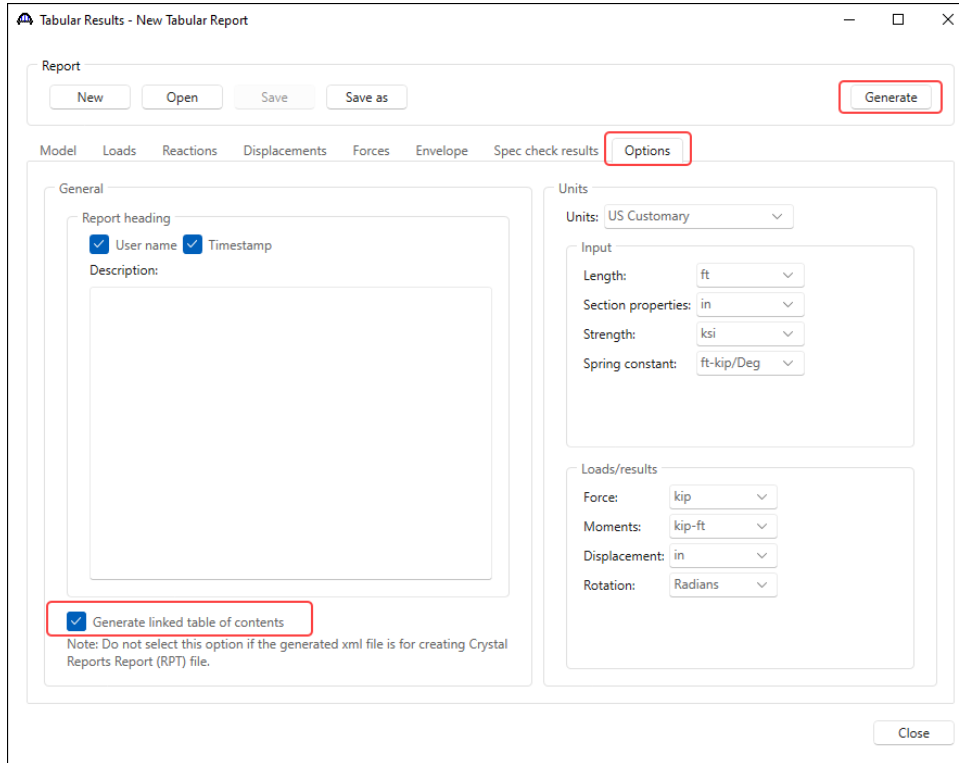
Substructure Results Report

Navigate to the **Loads** tab. Select **Strength-I limit state** and click on the **Generate** button to generate the report.

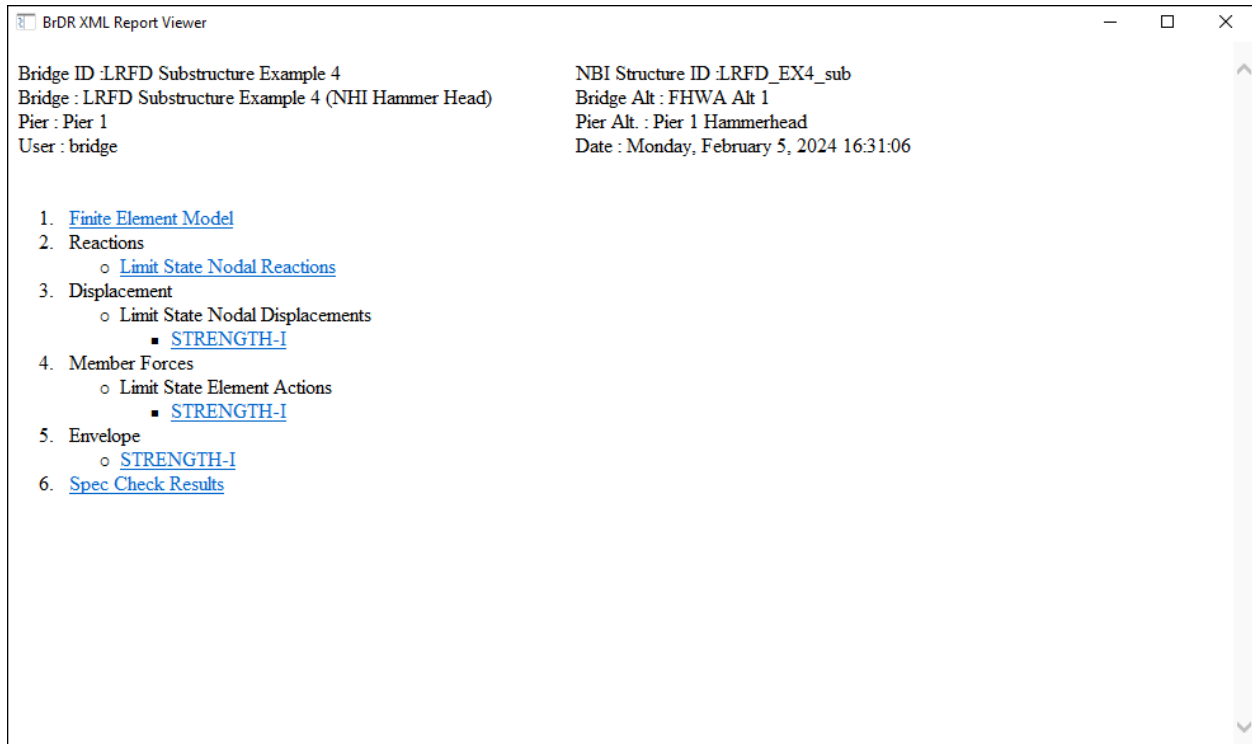


Substructure Results Report

The linked table of contents report is generated by checking the **Generate linked table of contents** check box on **Options** tab as shown below.

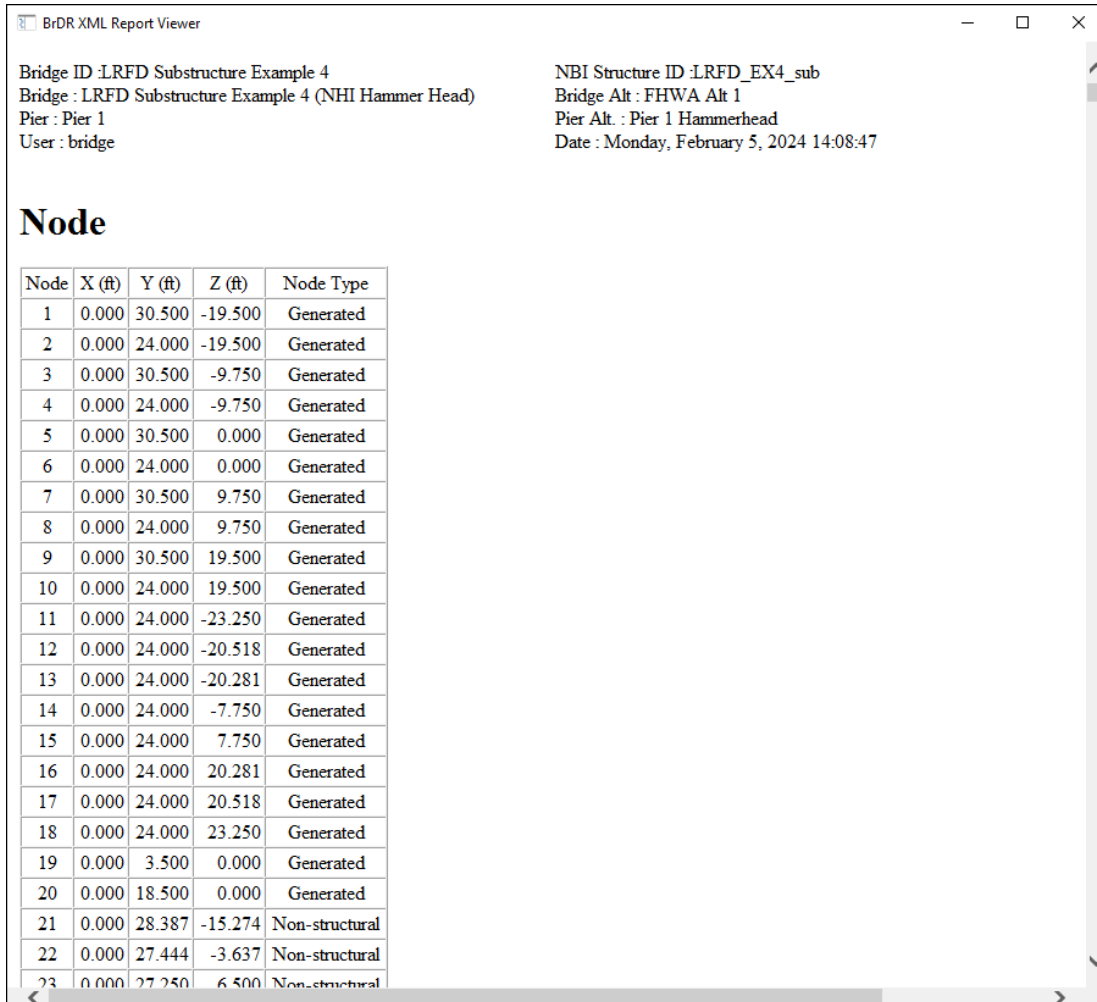


Click the **Generate** button to generate the report. The generated linked table of contents report is as shown below.



Substructure Results Report

Click on the **Finite Element Model** link to view the **Finite Element Model** report as shown below. Similarly, all other reports can be viewed by clicking on the corresponding links, which would open reports on new tabs.



The screenshot shows a window titled "BrDR XML Report Viewer" with the following information:

Bridge ID :LRFD Substructure Example 4
Bridge : LRFD Substructure Example 4 (NHI Hammer Head)
Pier : Pier 1
User : bridge

NBI Structure ID :LRFD_EX4_sub
Bridge Alt : FHWA Alt 1
Pier Alt. : Pier 1 Hammerhead
Date : Monday, February 5, 2024 14:08:47

Node

Node	X (ft)	Y (ft)	Z (ft)	Node Type
1	0.000	30.500	-19.500	Generated
2	0.000	24.000	-19.500	Generated
3	0.000	30.500	-9.750	Generated
4	0.000	24.000	-9.750	Generated
5	0.000	30.500	0.000	Generated
6	0.000	24.000	0.000	Generated
7	0.000	30.500	9.750	Generated
8	0.000	24.000	9.750	Generated
9	0.000	30.500	19.500	Generated
10	0.000	24.000	19.500	Generated
11	0.000	24.000	-23.250	Generated
12	0.000	24.000	-20.518	Generated
13	0.000	24.000	-20.281	Generated
14	0.000	24.000	-7.750	Generated
15	0.000	24.000	7.750	Generated
16	0.000	24.000	20.281	Generated
17	0.000	24.000	20.518	Generated
18	0.000	24.000	23.250	Generated
19	0.000	3.500	0.000	Generated
20	0.000	18.500	0.000	Generated
21	0.000	28.387	-15.274	Non-structural
22	0.000	27.444	-3.637	Non-structural
23	0.000	27.250	6.500	Non-structural