

AASHTOWare Bridge Rating/Design Training

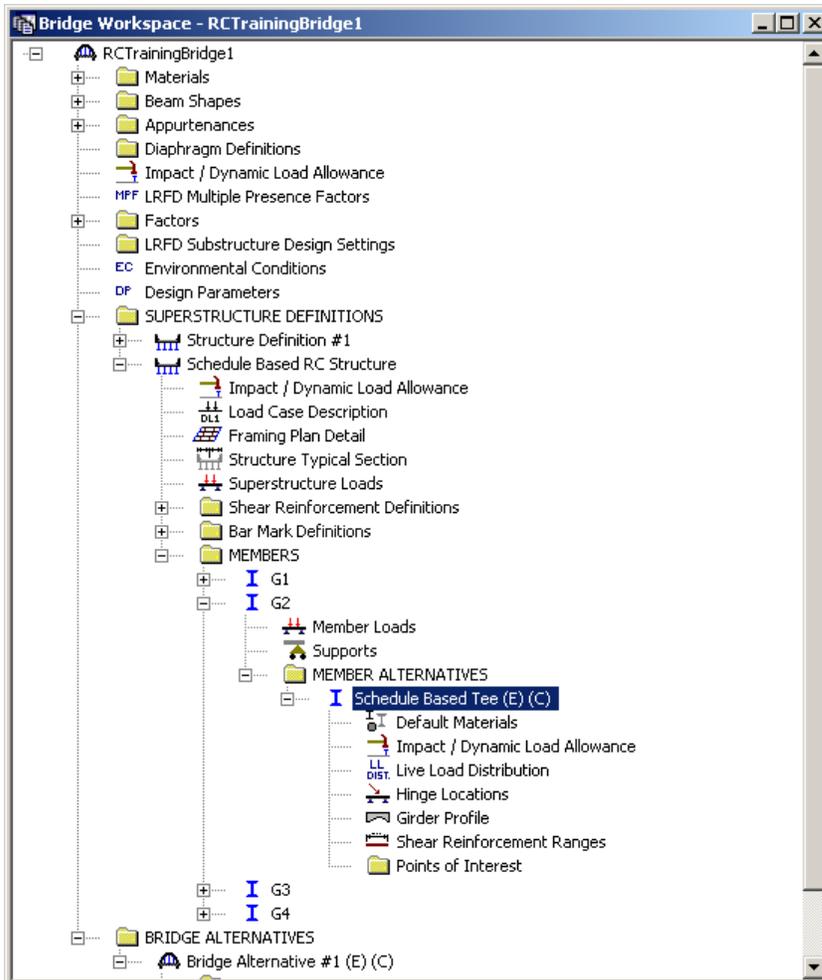
RC6 – Varied RC Tee Beam Section Properties (BrR/BrD 6.4)

This example describes how to enter varied RC tee beam cross section properties. This feature is only available in schedule based tee beam cross sections. This example assumes you have access to RCTrainingBridge1 (BID11) in the teaching database from the installation.

Topics Covered

- Enter varied RC tee beam section properties
- Compare spec check details at different locations

Open RCTrainingBridge1, open “Schedule Based Tee” Girder Profile window shown as below.



Type: Reinforced Concrete Tee

Section | Web Depth | Reinforcement

Allow flange width to vary

Tributary width: 96.0000 in

6.5000 in

24.0000 in

24.0000 in

A = in

Top Flange

Material: Class A (US)

Modular Ratio:

Eff. width (Std): 72.0000 in

Eff. width (LRFD): 96.0000 in

Struct. thick.: 6.5000 in

Other Parts

Material: Class A (US)

Modular Ratio:

OK Apply Cancel

Check “Allow flange width to vary” check box, enter data as shown below.

Type: Reinforced Concrete Tee

Section | Web Depth | Web Width | Reinforcement

Allow flange width to vary

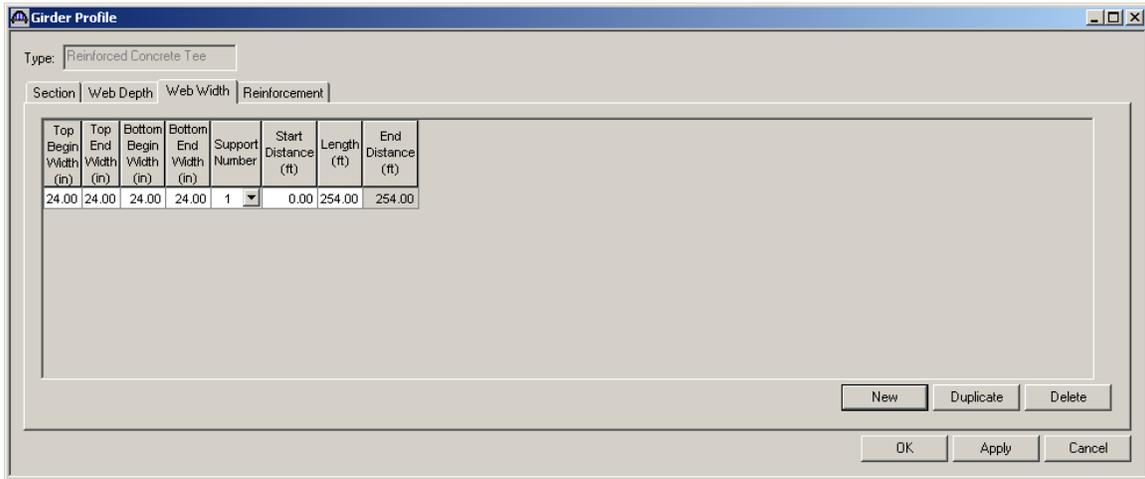
A = in

Top Flange Material	Other Parts Material	Support Number	Start Distance (ft)	Length (ft)	End Distance (ft)	Top Flange Total Thickness (in)	Top Flange Structural Thickness (in)	Start Tributary Width (in)	End Tributary Width (in)	Start Effective Flange Width (Std) (in)	End Effective Flange Width (Std) (in)	Start Effective Flange Width (LRFD) (in)	End Effective Flange Width (LRFD) (in)	Top Flange n	Other Parts n
Class A (US)	Class A (US)	1	0.00	57.50	57.50	6.50	6.50	72.00	96.00	60.00	72.00	72.00	96.00		
Class A (US)	Class A (US)	1	57.50	196.50	254.00	6.50	6.50	96.00	96.00	72.00	72.00	96.00	96.00		

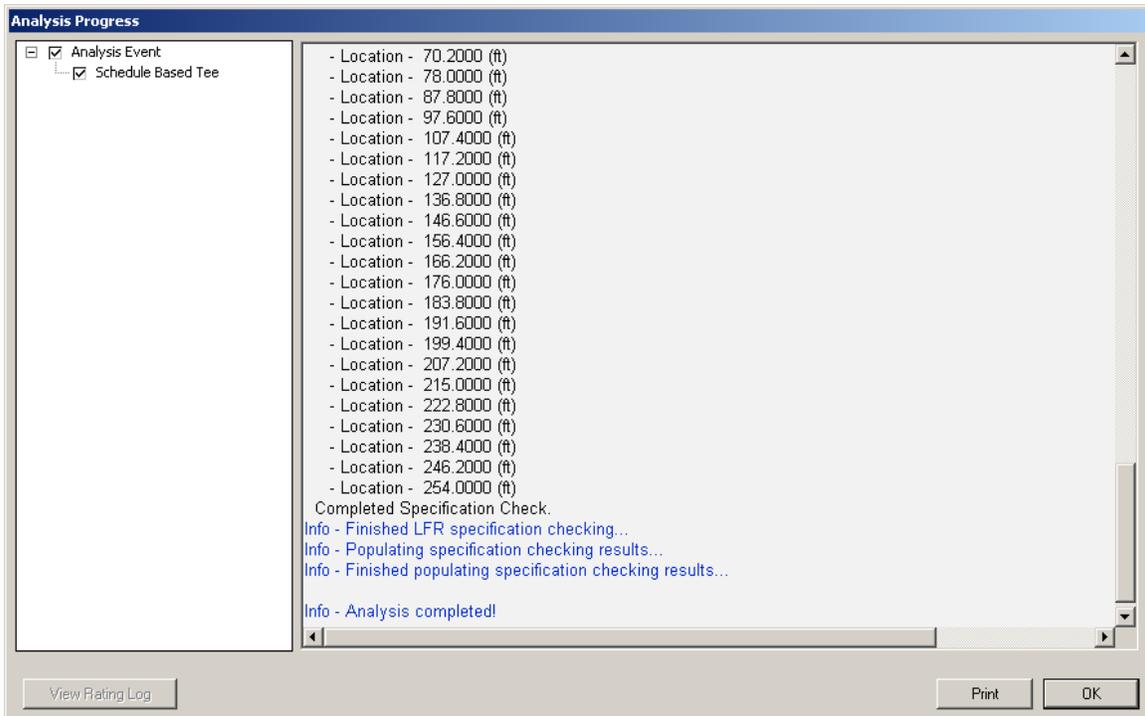
New Duplicate Delete

OK Apply Cancel

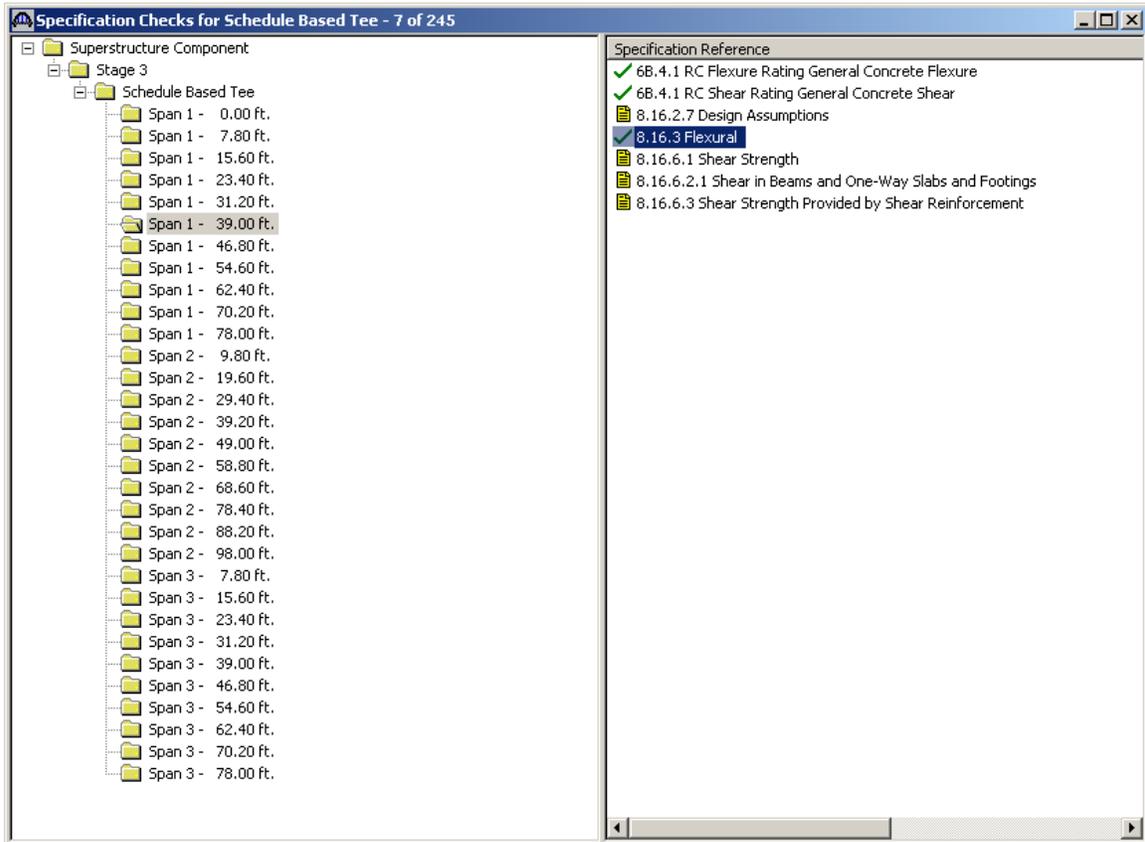
Select “Web Width” tab and enter constant web width as shown below.



Click OK button to save the change to memory and close the window.
Do LFD rating with HS20. Click OK in analysis progress window when analysis is complete.



Click “View Spec Check”  button to view article list.



Compare article “8.16.3 Flexural” at different locations, different flange widths are used for analysis.

