

# West Point Bridge Designer

## 3 Select the Deck Elevation and Support Configuration

### Deck Elevation

20 meters

### Support Configuration

- Standard abutments
- Arch abutments

4 meters

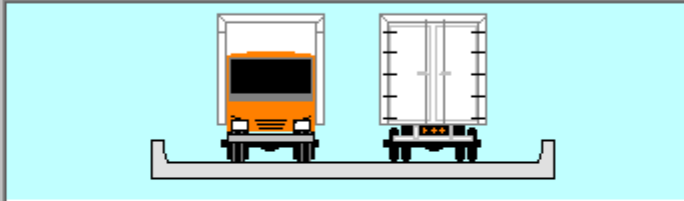
- No Pier (One Span)
- Pier (Two Spans)

Height of Pier:

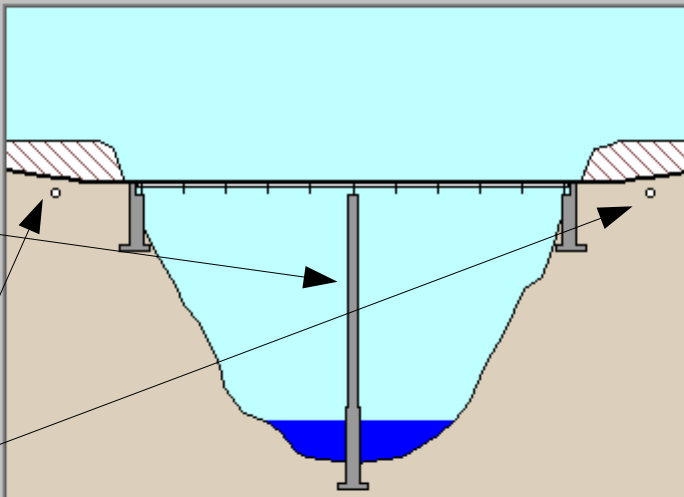
20 meters







- No Cable Anchorages
- One Cable Anchorage
- Two Cable Anchorages

### Deck Cross-Section



### Elevation View



-  = River Banks
-  = Excavation
-  = River
-  = Deck
-  = Abutment
-  = Pier

### Design Tip:



The total cost of the design is the Site Cost plus the Truss Cost. The Site Cost is shown below. The Truss Cost will be computed when you design the truss.

In general, configurations that increase the Site Cost tend to reduce the Truss Cost and vice versa. For example, a lower deck elevation usually increases the Site Cost because it requires more excavation; but, a lower deck also reduces the Truss Cost because it shortens the span length. Try to find the best balance between these two competing costs.

For more information on selecting a site configuration, click the Help button below.

Site Cost:

\$121,000.00 (Includes cost of deck, excavation, and supports; not steel trusses.)

Site Condition: 83A

Help...

Cancel

<< Back

Next >>

Finish