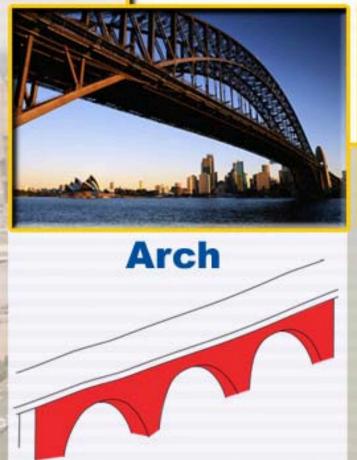
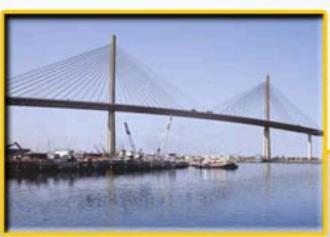


Bridge Terminology







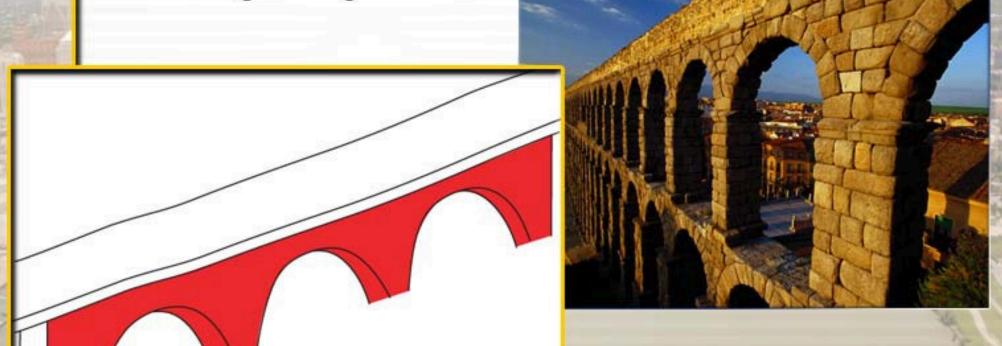




Arch:

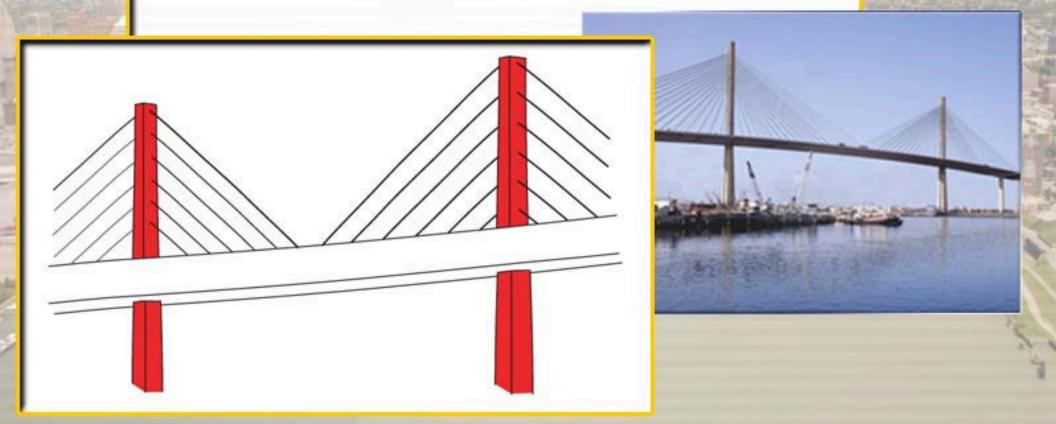
A semicircular structure that directs the weight

of the bridge along a curve.



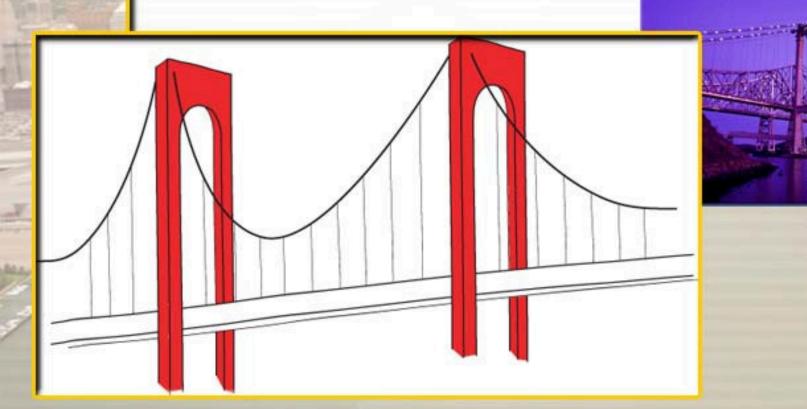
Cable-Stayed Bridge

A bridge in which a portion of the roadway is supported by diagonal cables attached to a pylon.



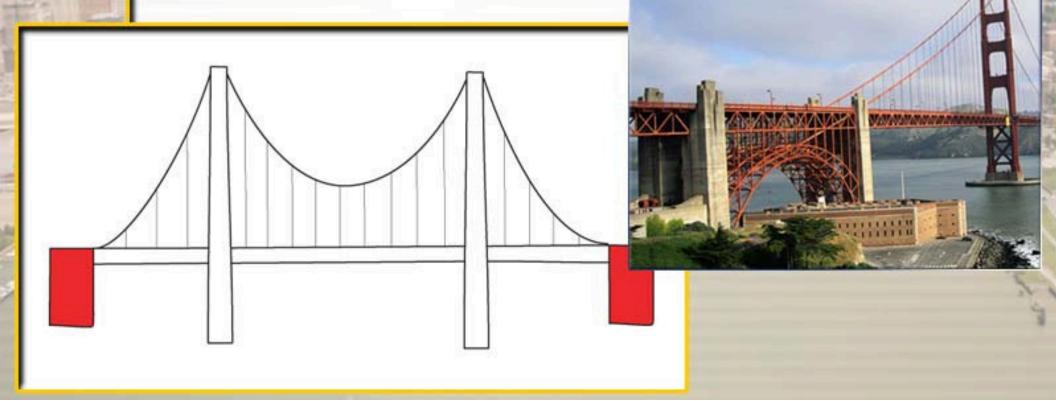
Suspension Bridge:

A bridge in which the roadway is hung from strung cables that pass over two towers.



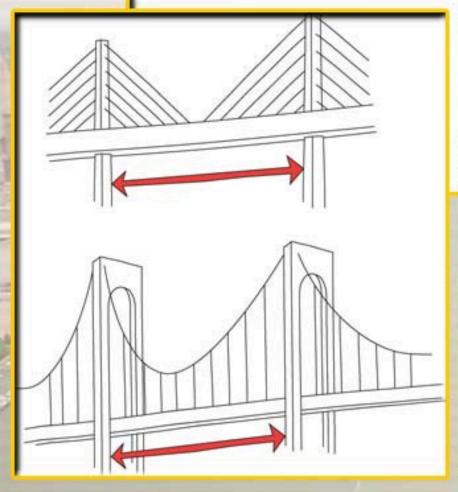
Anchorage:

A foundation structure that secures suspension bridge cables on land and allows them to bear the weight of the bridge.



Span:

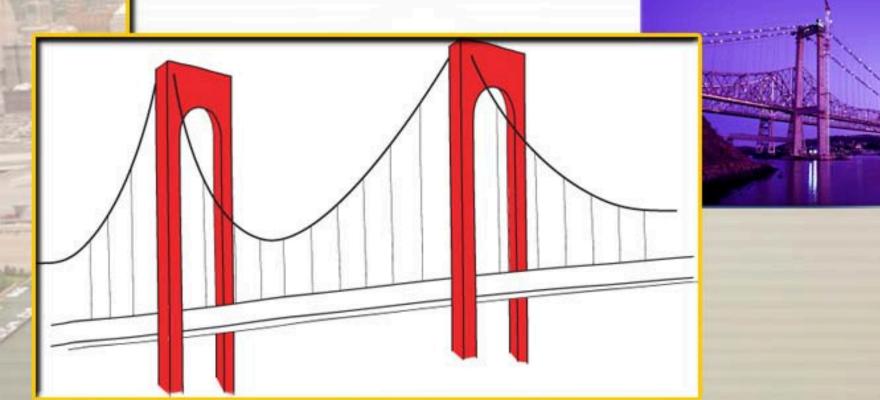
The distance between two supports of a bridge.





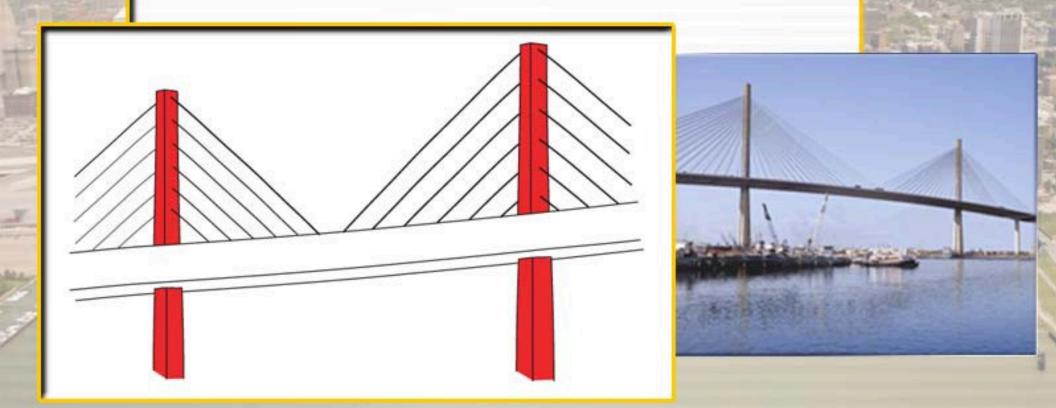
Tower:

The vertical element in suspension bridges from which cables are hung.



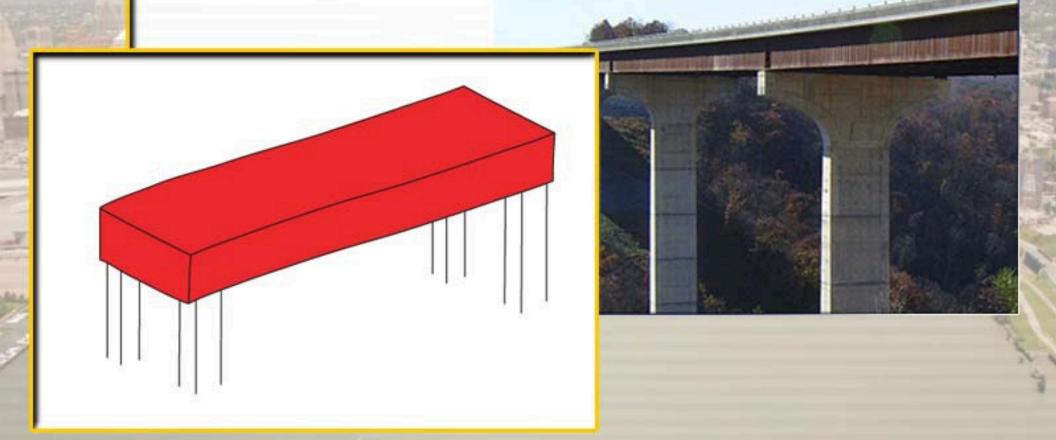
Pylon:

The vertical structural element form which cables radiate in a cable-stayed bridge.



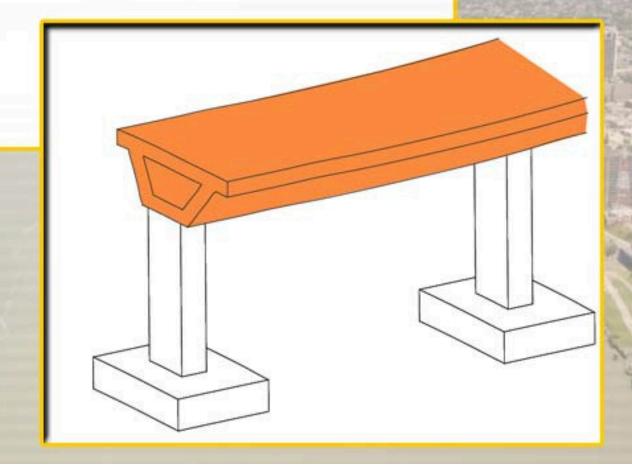
Beam:

A rigid, usually horizontal structural element.



Superstructure:

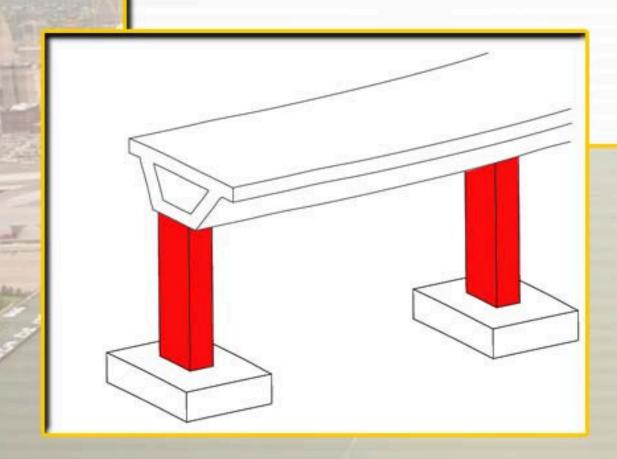
The horizontal portion of the bridge that directly supports the roadway.

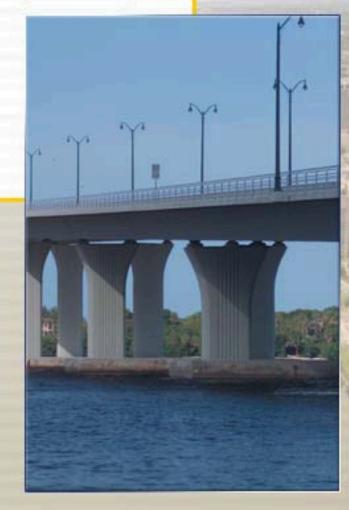


Pier:

A vertical column or columns holding up a bridge

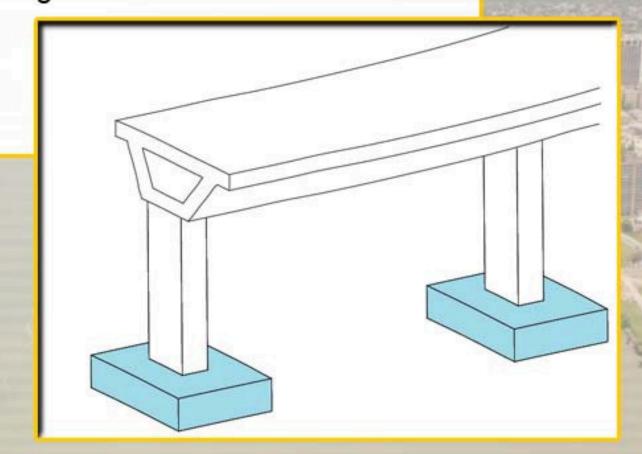
or other structure.





Foundation:

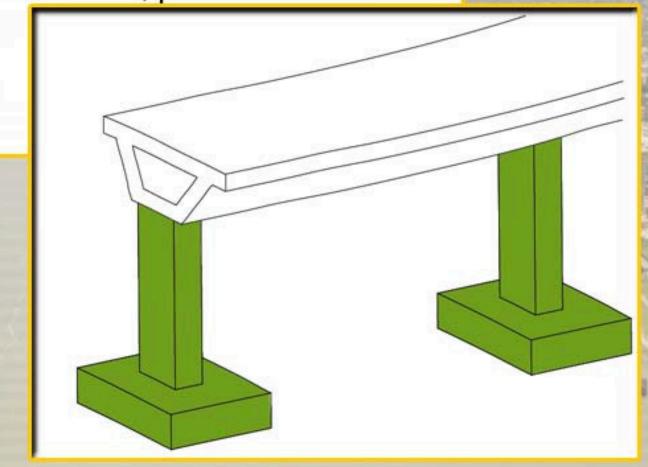
The element of the bridge that connects the pier or abutment to the ground.





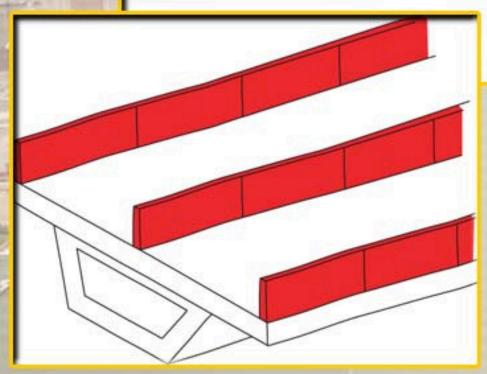
The vertical components of the bridge; usually comprised of the abutments, piers and the

foundations.



Traffic Barrier:

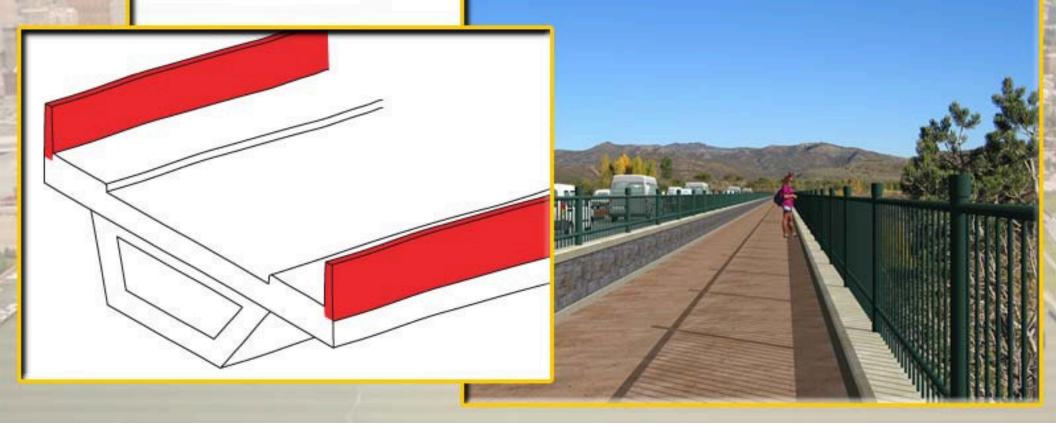
Vertical element on deck of bridge that separates traffic lanes and defines the edge of the traffic area.





Pedestrian Barrier:

Vertical element on deck of bridge that provides fall protection for pedestrians at the edge of the sidewalk.



Structural Requirements for DRIC Bridge:

- Clear navigation channel 1,700 ft x 152 ft
- Deck Width (6-Lanes)
 Possible piers in river
 - Vessel collision
 - Vessel routes
- Geotechnical
 - Place on competent rock
- Wind/Ice Effects on large bridges
- Security
- Engineering Standards (US & Canada)



Structural Requirements for DRIC Bridge:

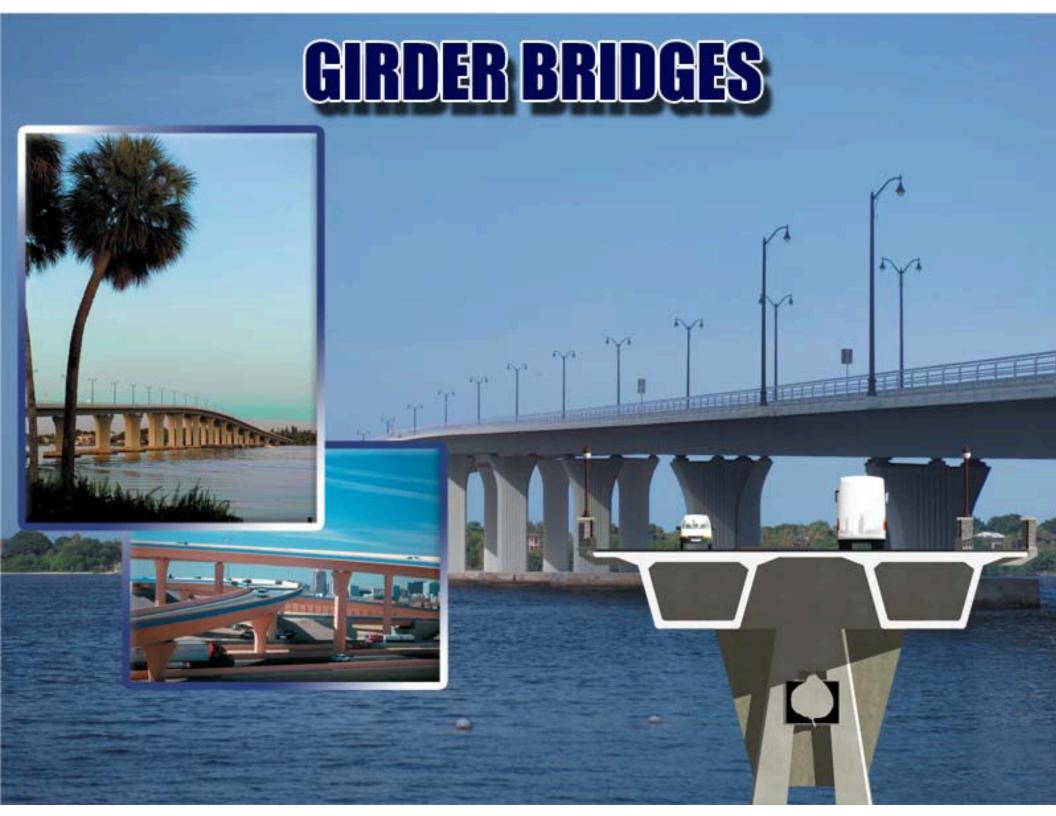
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 - Place on competen
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Significant Bridges:

A Significant Bridge utilizes the most efficient technology to meet both the functional and cultural needs while remaining at harmony with it's environment. A Significant Bridge will leave a lasting impression with the user.







ARCH BRIDGES

