



## Long Span Bridge Products



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# BOTTOMLESS ARCH BRIDGES and CULVERTS

LONG SPAN Bridge & Culvert, LLC provides civil engineers and land developers with the industry's most economical and versatile solutions for stream and wetland crossings. At a **typical savings of 30% or more compared to precast concrete** our bridges are offered in a variety of shapes and sizes each designed to handle highway loading. To assist you with your project LONG SPAN can provide stamped engineering designs for the entire structure, foundations and retaining walls. For more information please call us at 888-949-LSBC (5722).

## ADVANTAGES

- Typical Savings of 30% or more compared to precast concrete systems.
- Available in Spans from 5 feet to 83 feet in a variety of rises.
- Accommodates HS-20 & HS-25 or heavier highway loading.
- Can be manufactured with square or skewed ends, elbows or beveled ends.
- Headwalls and Wingwalls can be designed for cast-in-place concrete, segmental block or MSE panel walls.
- Structures are available in galvanized steel or aluminum alloy.

## APPLICATIONS

- Stream and Wetland Crossings.
- Bridge Replacement.
- Overpass/Underpass for Vehicles or Pedestrians.
- Railroad Grade Separations.
- Underground Storage.
- Utility Protection.



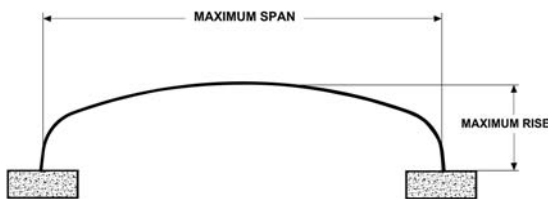
Arch with MSE Headwall



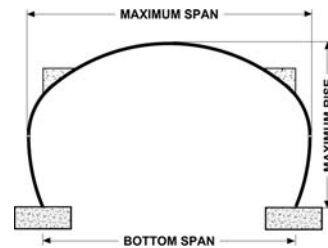
Multiple Arches with Concrete Headwall with Stone Form Liner



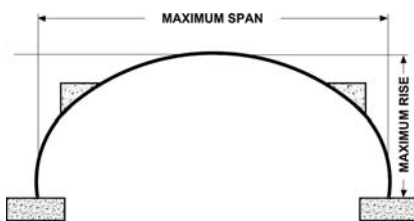
Twin Box Culvert with Concrete Headwall and Segmental Block Wingwalls



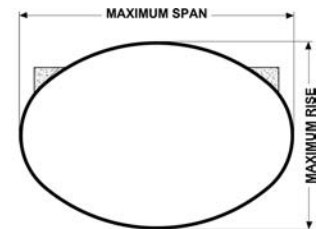
BOX CULVERT  
9'-8" X 2'-7" to 51'-0" X 13'-0"



HIGH PROFILE ARCH  
20'-1" X 9'-1" to 83'-8" X 25'-2"



LOW PROFILE ARCH  
19'-5" X 6'-9" to 51'-7" X 24'-2"



HORIZONTAL ELLIPSE  
19'-4" X 12'-9" to 40'-0" X 24'-7"

# PRE-FABRICATED BEAM BRIDGES

Our Pre-fabricated Beam Bridges provide a one stop source for stream and wetland crossings. We provide the manufacturing and engineering design of the entire bridge system from superstructure to abutments and foundations. Our Pre-fabricated Beam Bridges are used on State/County Department of Transportation, Private Developer Subdivision, Golf Course, Resort and National Park Service Projects.

## ADVANTAGES

- Spans from 16 feet to 150 feet of Any Width.
- Accommodates HS-20 & HS-25 Loading and can be designed for additional loading requirements.
- No cover required; apply asphalt paving or concrete directly on bridge deck. Can accommodate skewed road alignments.
- Manufactured of weathering steel that requires no maintenance. – Painted finishes available in a variety of colors.
- Delivered Pre-Assembled for quick bolt together modular field installation – Reducing field labor.
- More hydraulically efficient than other manufactured Bridge Systems.
- Environmentally Protective – Allows for Spanning entire wetland or stream.
- Steel guard rail system provided; Concrete Guard Rail systems can be poured in field.

## APPLICATIONS

- Wetland and Stream Crossings up to 150 feet or longer.
- Low Rise Situations.
- New Bridge Construction as well as Bridge Replacement on existing abutments.
- Vehicular or Pedestrian Crossings.



**Weathering Steel Bridge**



**Vehicle Overpass**



**Pave Directly over Bridge Deck or Pour Concrete on Bridge Deck**



**Double Diagonal Truss with Hardwood Deck**



**Beam Bridge Equipped with a Pedestrian Walkway**



**Quick Modular Assembly**



**Installation of Pre-Assembled Beam Bridge**

## OUR SERVICES

LONG SPAN Bridge & Culvert, LLC provides developer, engineers and contractors with the industry's most economical and comprehensive design-supply package for both Arch Bridges and Culverts and Pre-fabricated Beam Bridges.

### Services include:

- Initial Consultation and Technical Support.
- Cost Estimates.
- Full Engineering Design of Superstructure, Footings, Headwalls, Wingwalls, Abutments and Piers.
- Hydraulic and Scour Analysis.
- Foundation Soil Stabilization Design.
- Manufacture, Delivery and Assembly.



**Photo Disclaimer**

The pictures included herein are intended solely to provide viewers with a visual example of the types of structures that LSBC can design, manufacture and build for our clients, all pursuant to AASHTO and ASTM requirements. These pictures represent a variety of projects including LSBC's, Lane Enterprise's, and others merely to represent the wide variety of structures that LSBC's experienced team can provide for you.

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a subsidiary of  


3905 Hartside Drive  
STE 514  
Camp Hill, PA 17011

1 888 949 LSBC (5722)  
240.379.7752 Fax

[www.longspanbridge.com](http://www.longspanbridge.com)

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