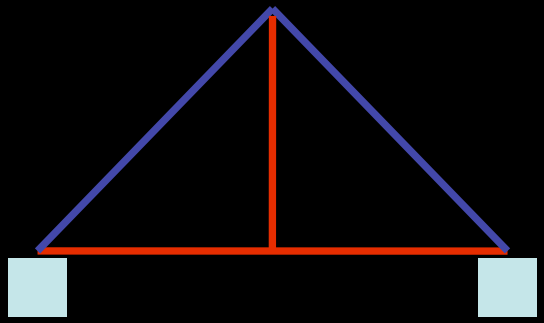
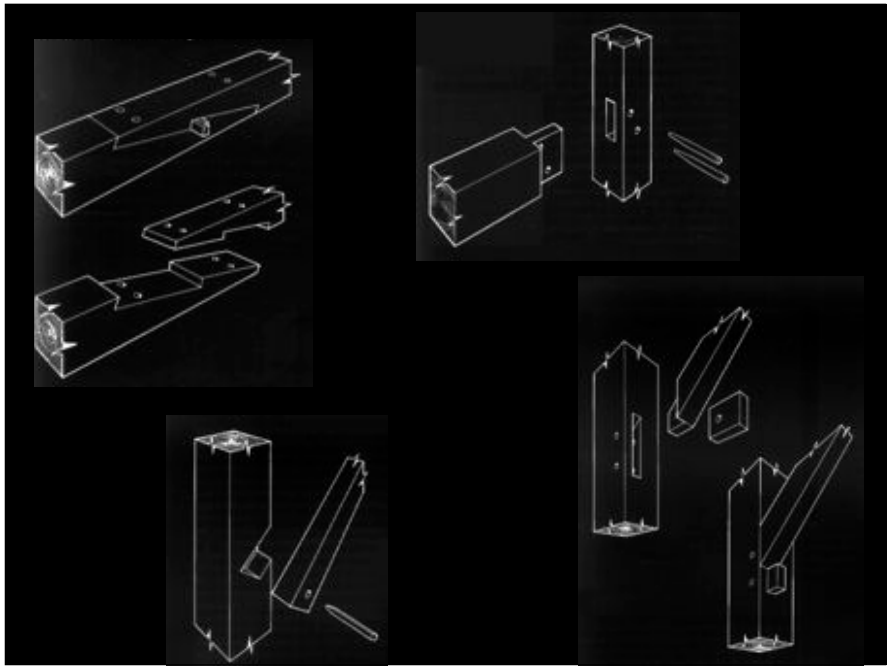
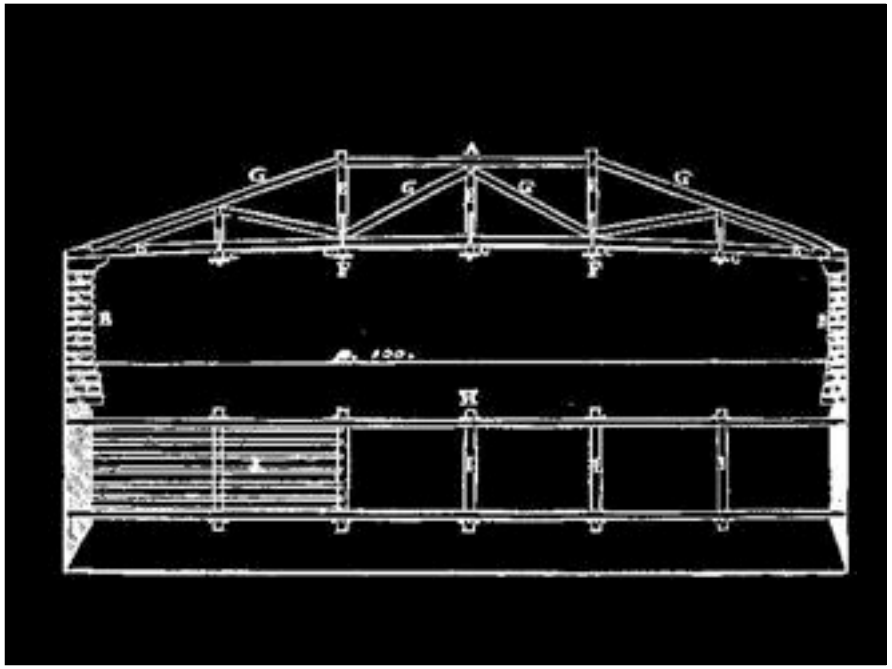
Covered Wooden Bridges

History of the wooden truss
Burr -> Town -> Long -> Howe
Evolution towards constructibility
Restoration and rehabilitation

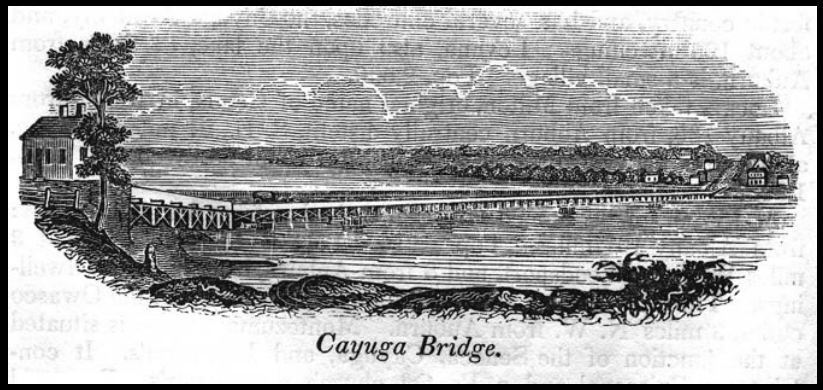




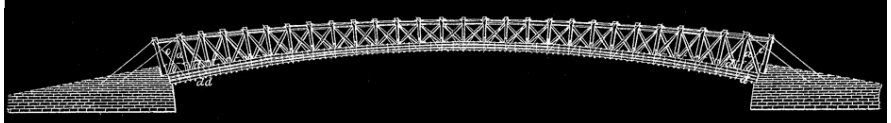
European Truss Bridges
(1570 - 1756)



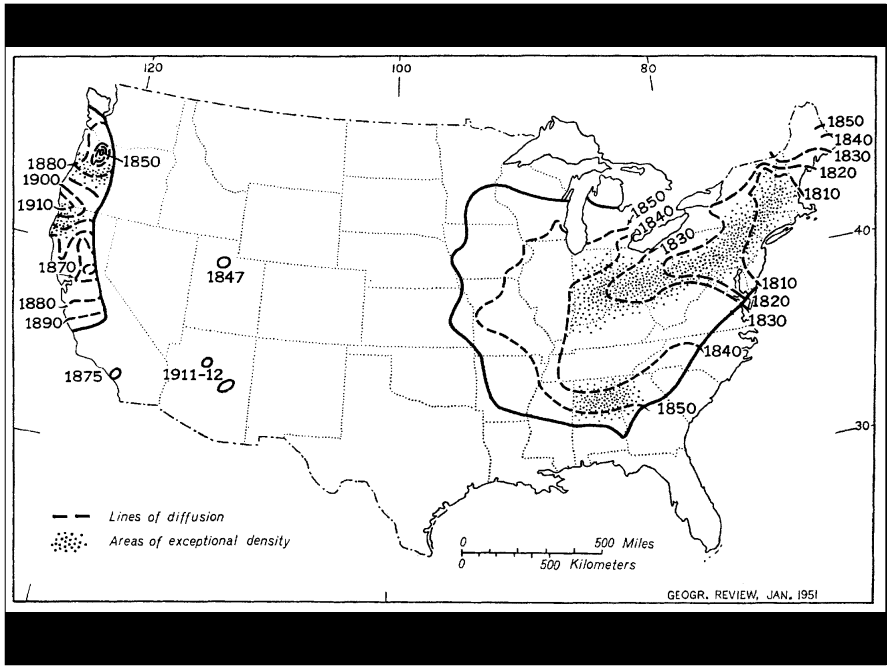
Early American Bridges



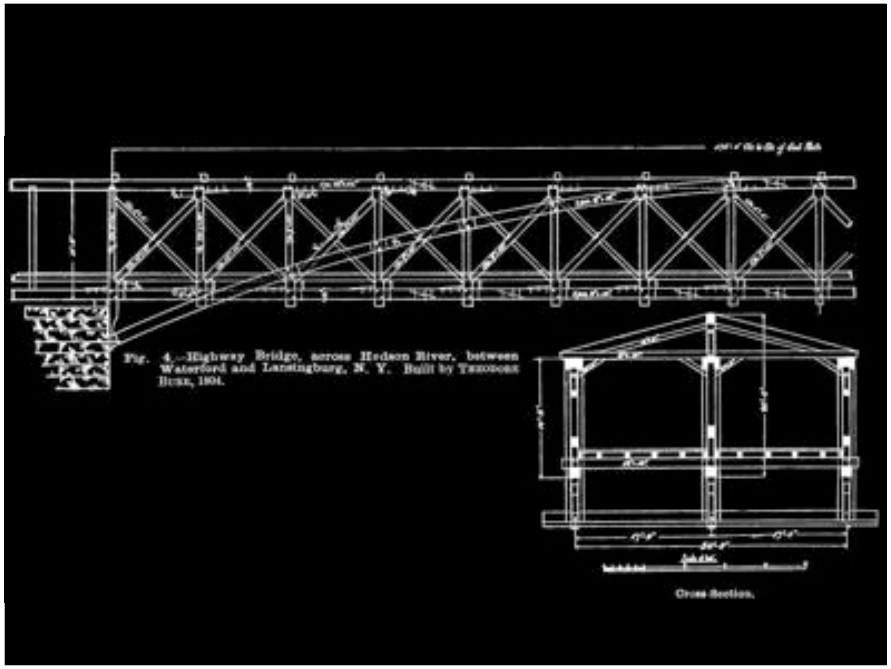
Permanent Bridge (1806)
Timothy Palmer

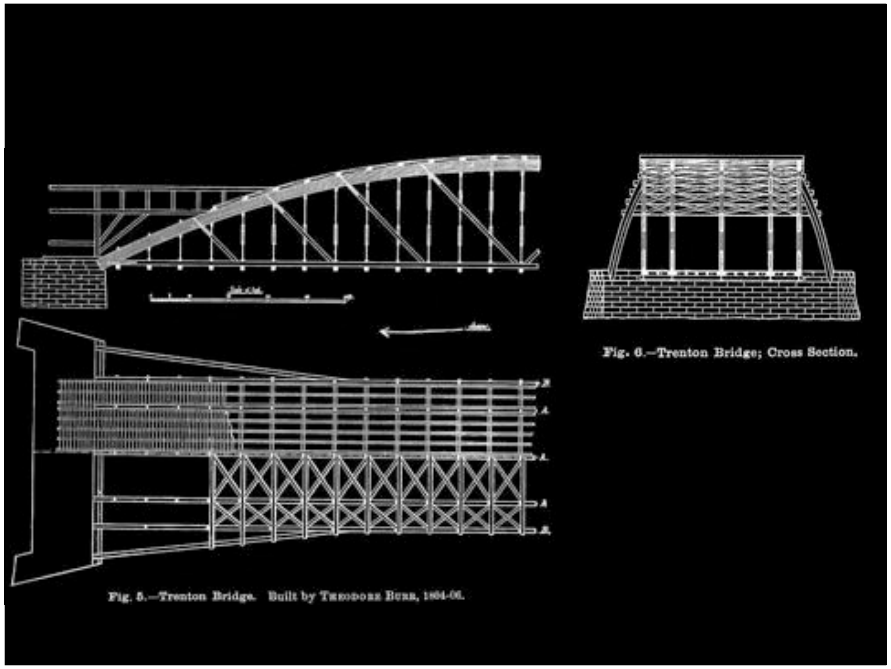


“The Colossus (1812)
Lewis Wernwag



Theodore Burr and the Burr Arch-Truss





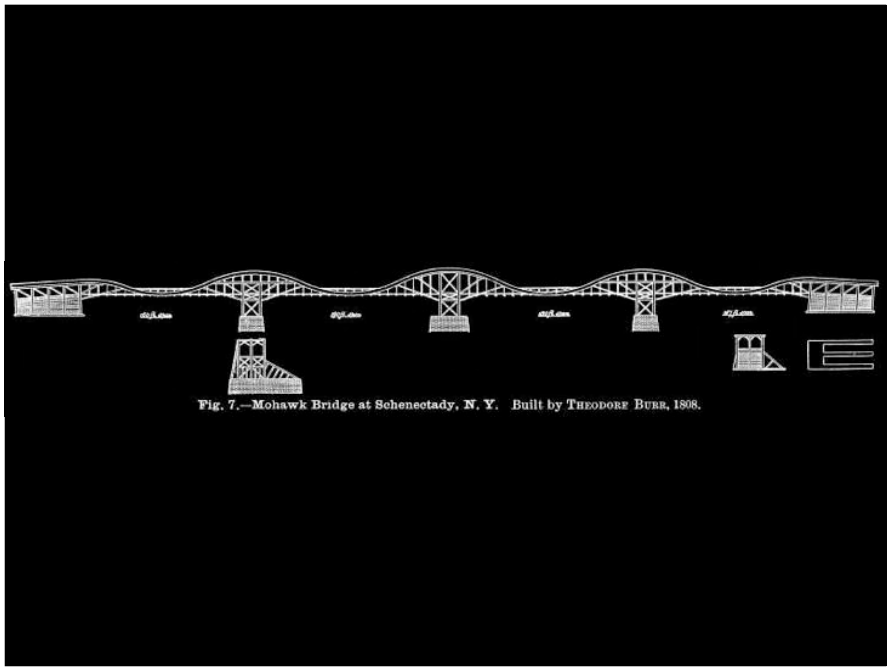
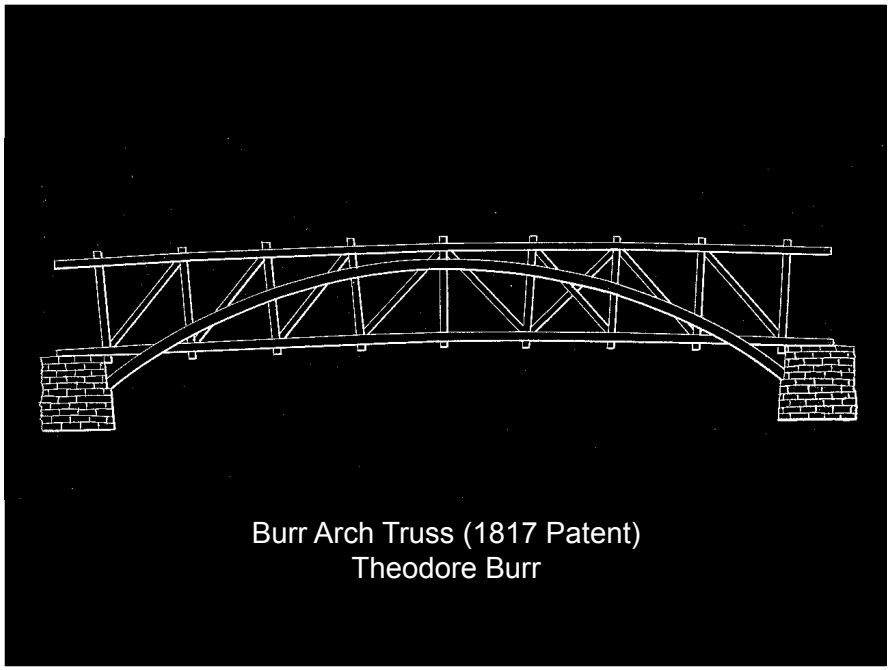
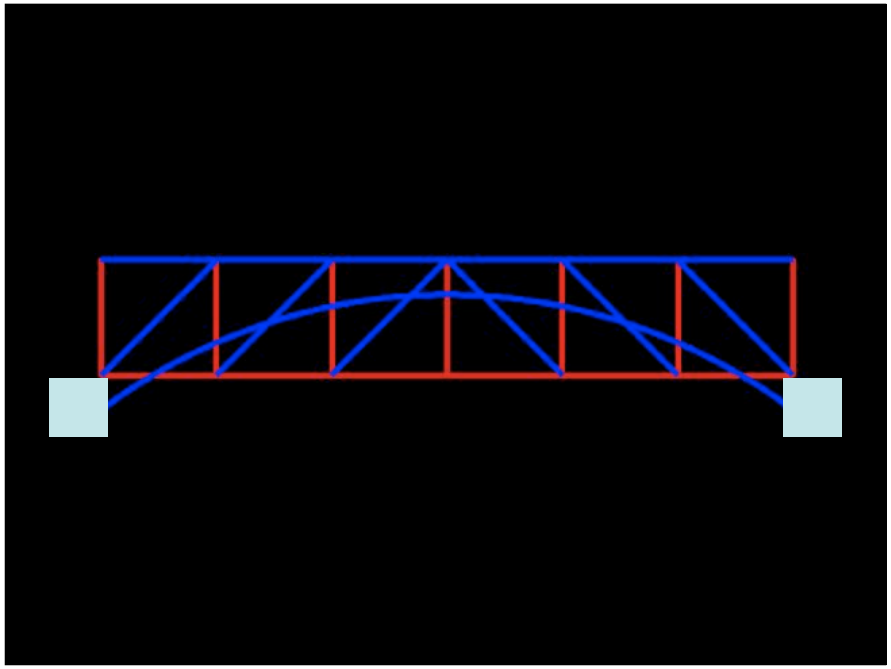
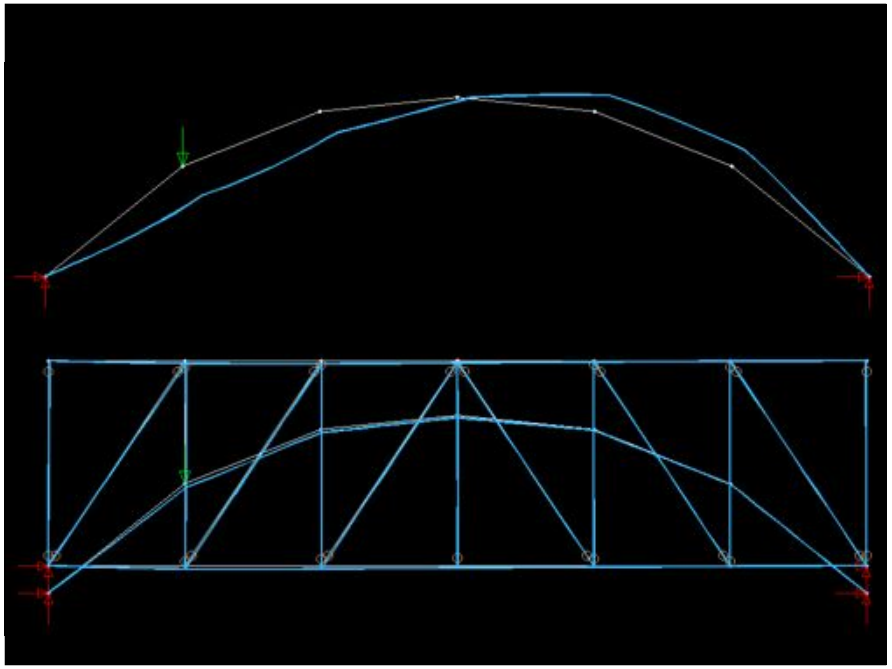


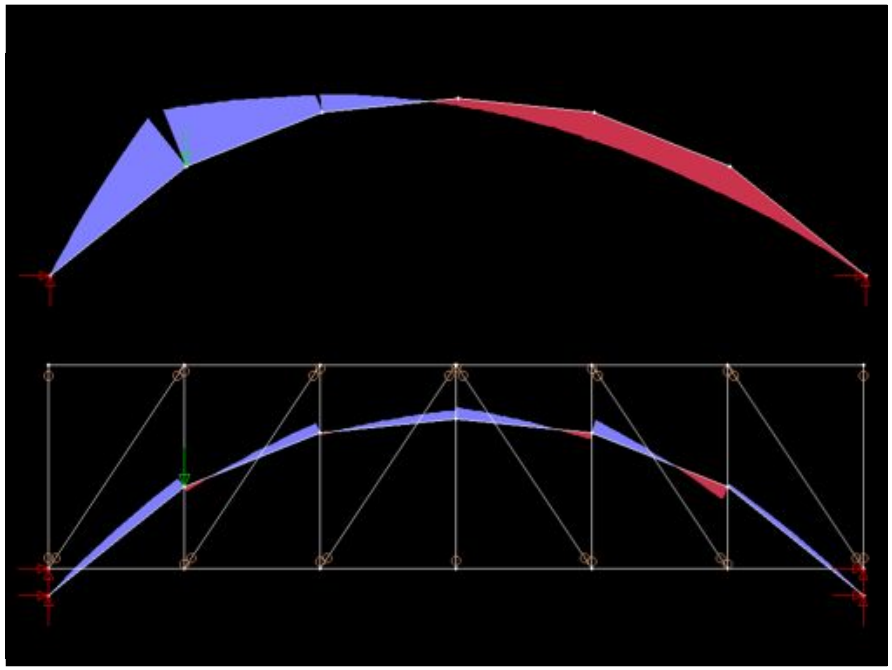
Fig. 7.—Mohawk Bridge at Schenectady, N. Y. Built by Theodore Burr, 1808.



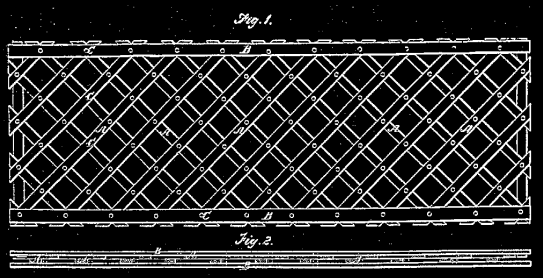
Burr Arch Truss (1817 Patent)
Theodore Burr

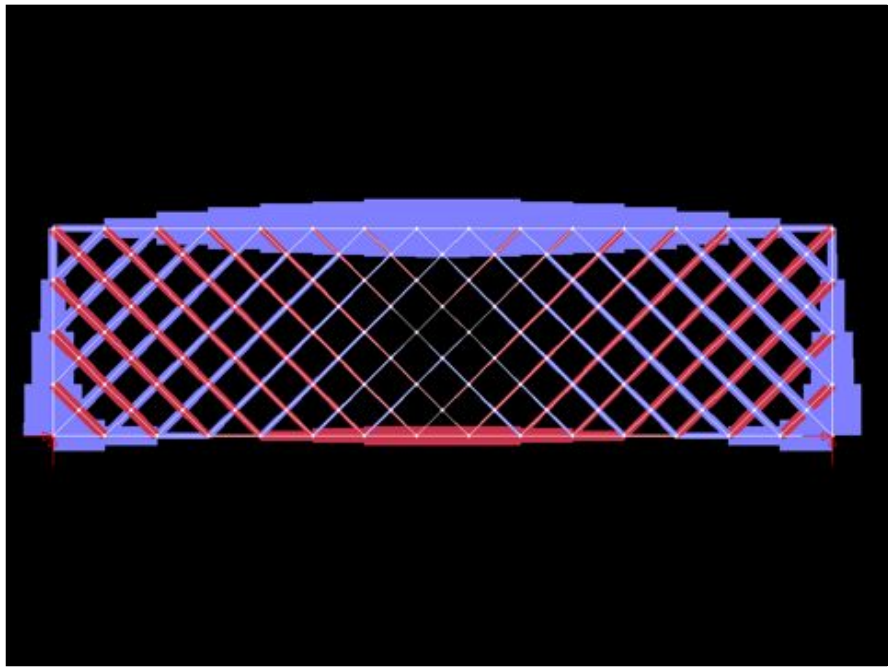


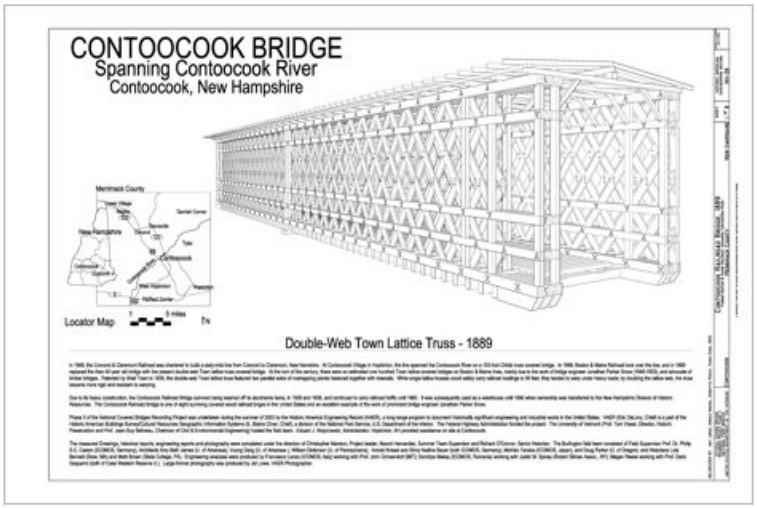




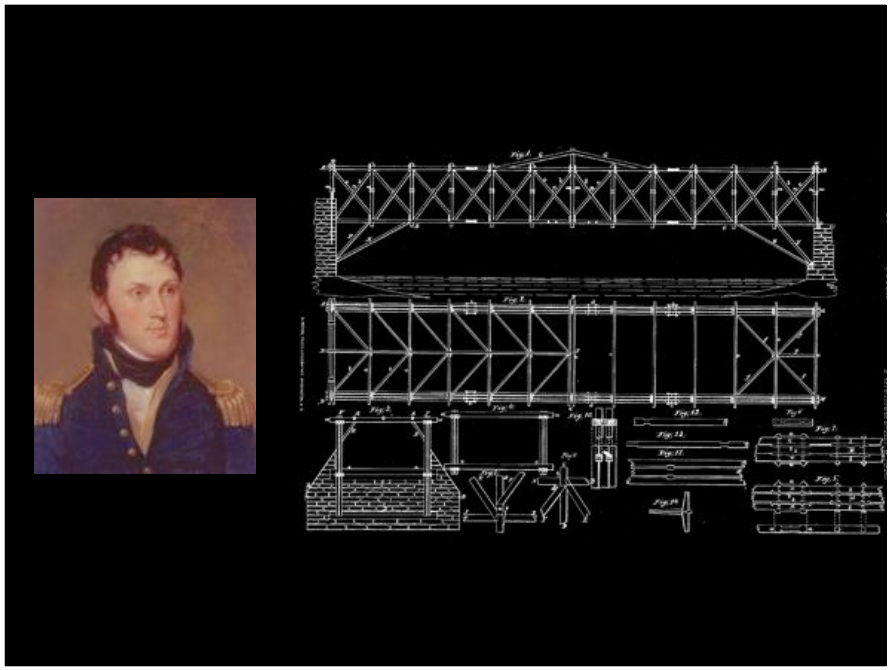
Ithiel Town and Town Lattice Truss

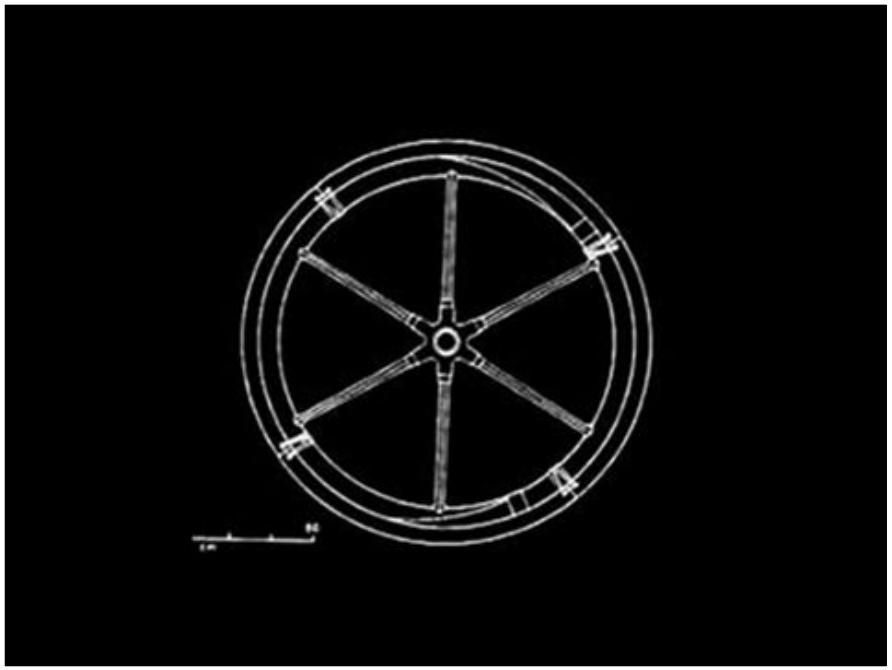


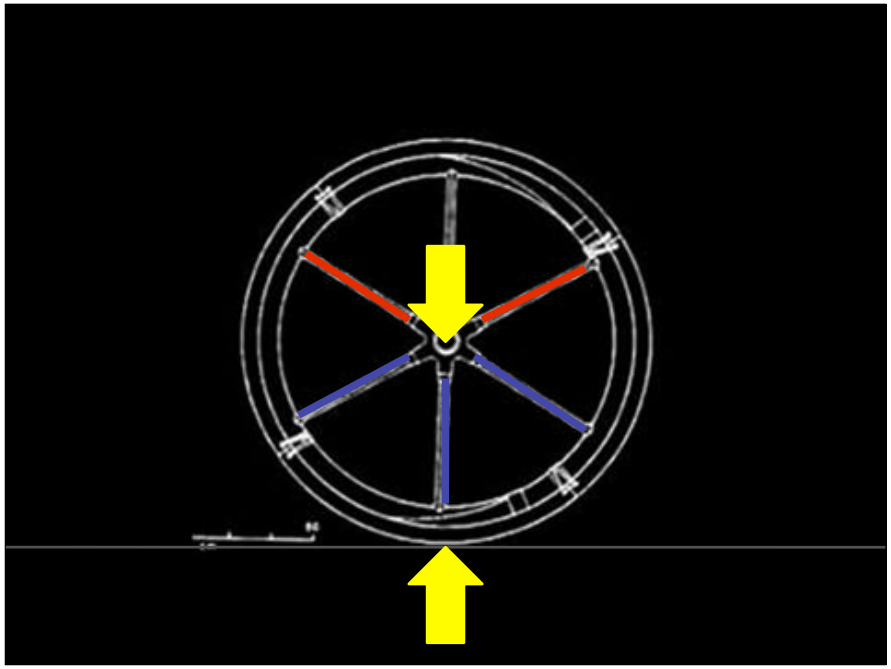


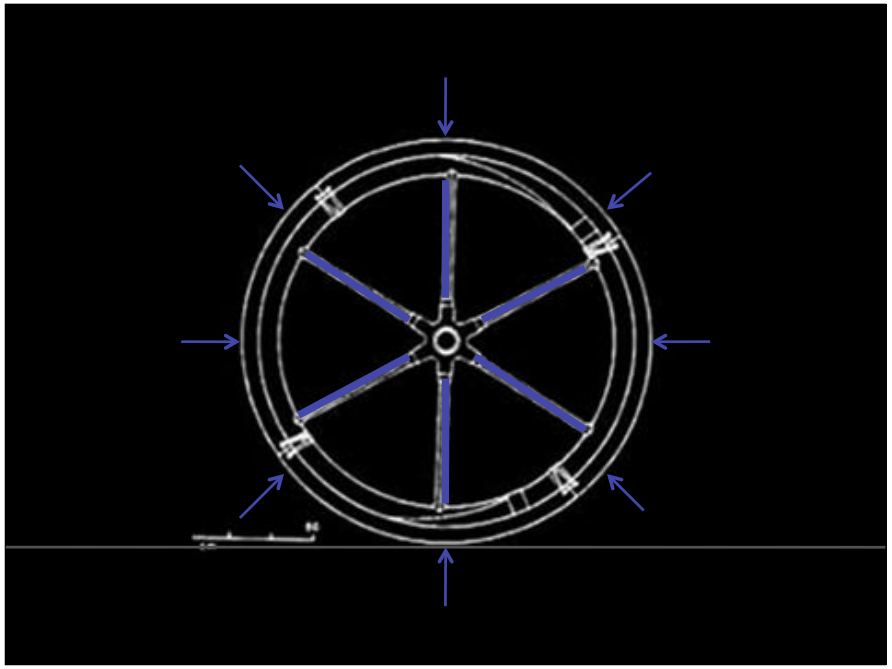


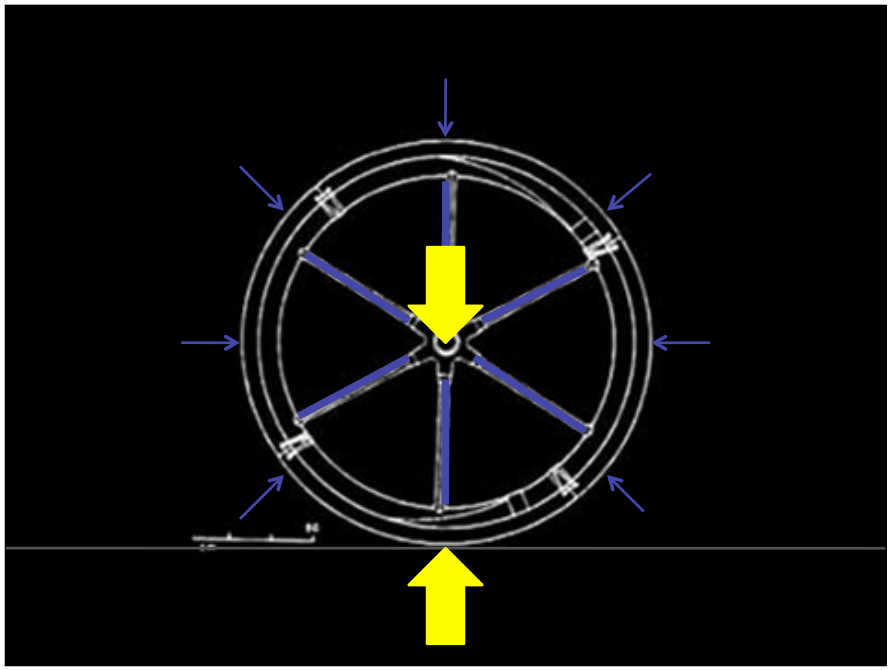
Stephen H. Long and the Long Truss

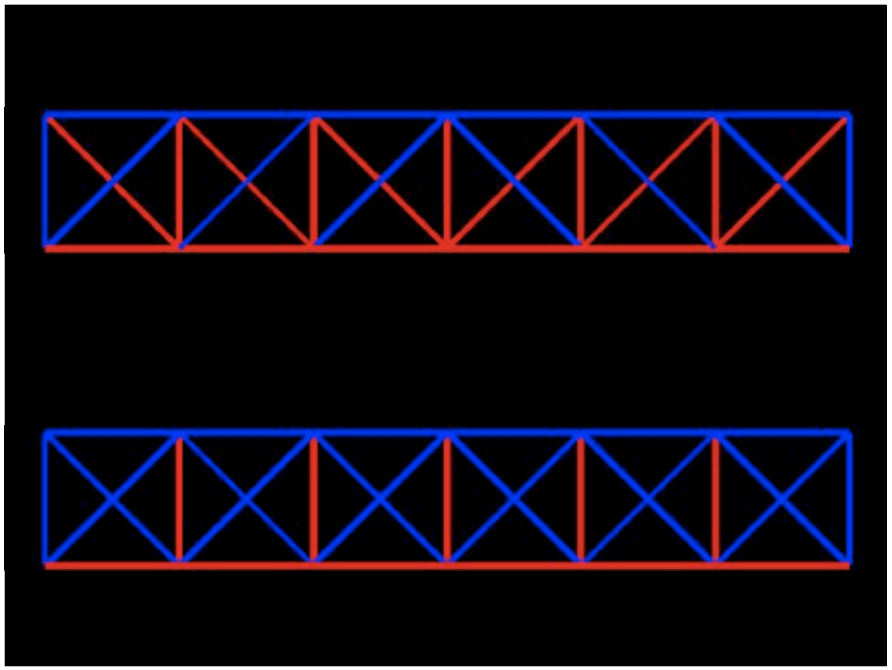


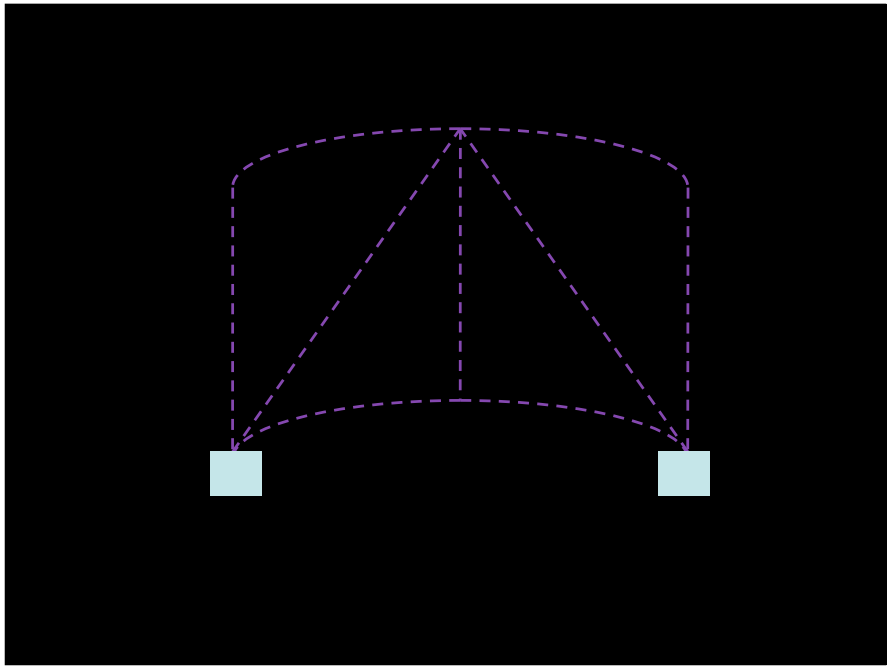


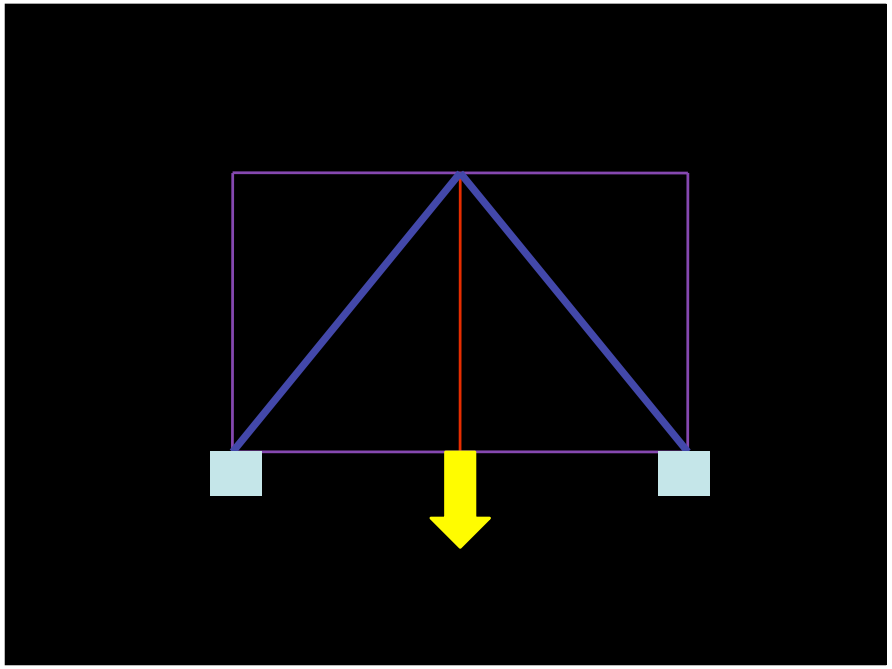


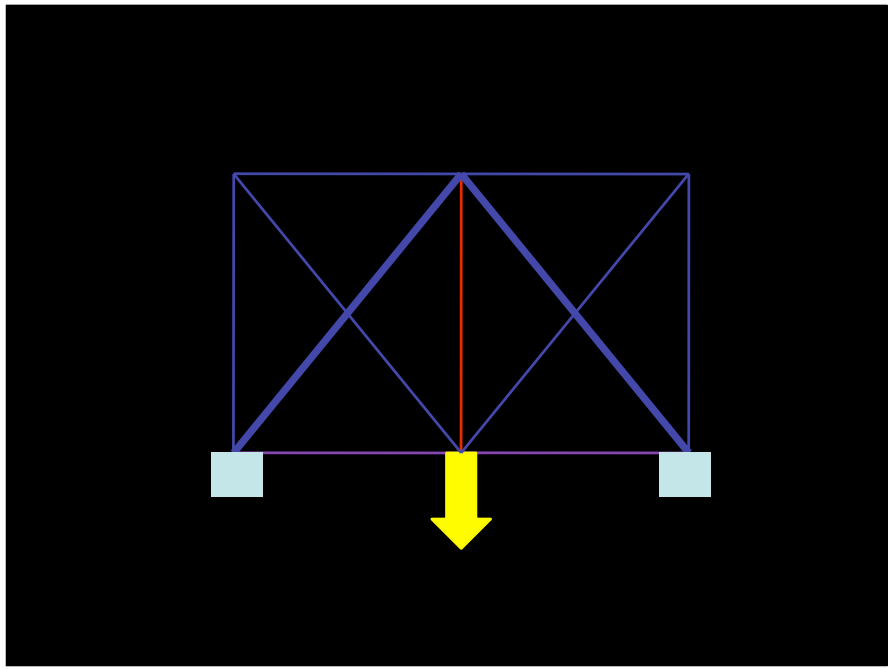


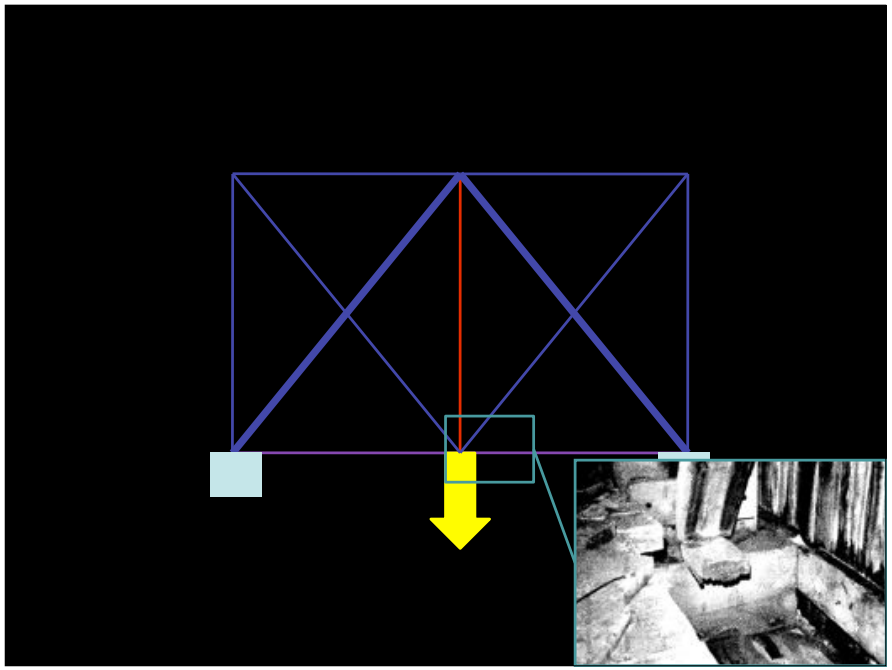


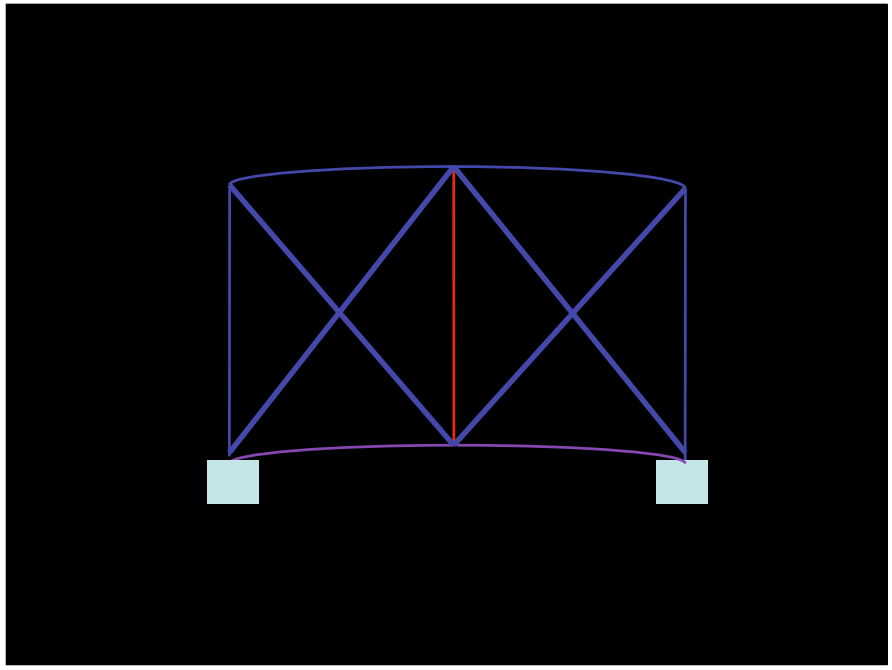




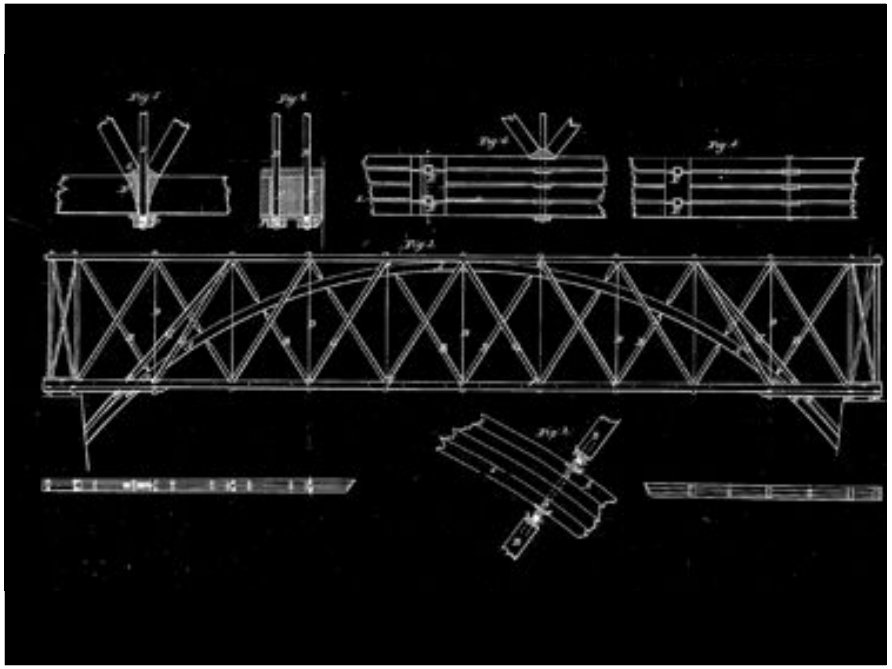


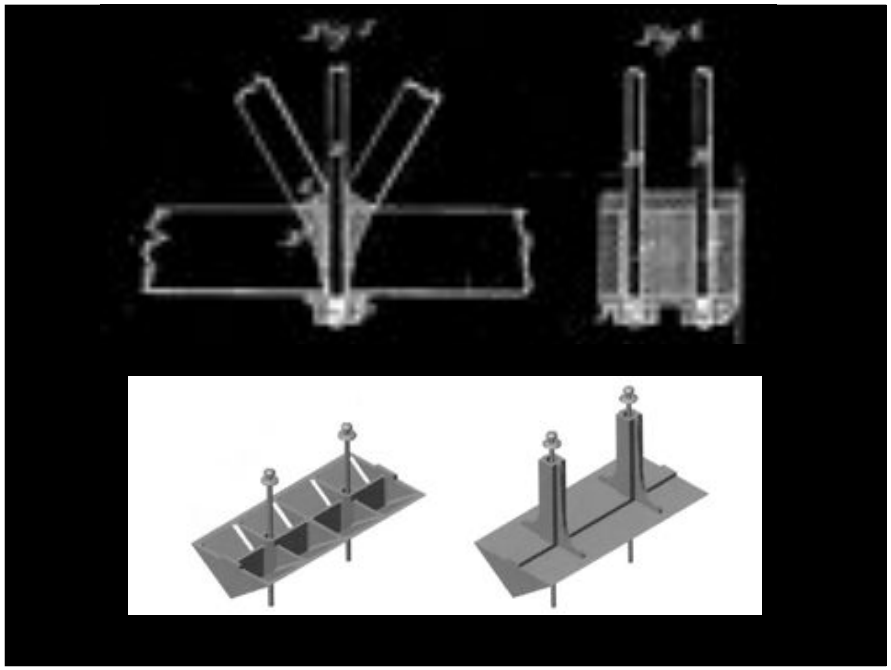


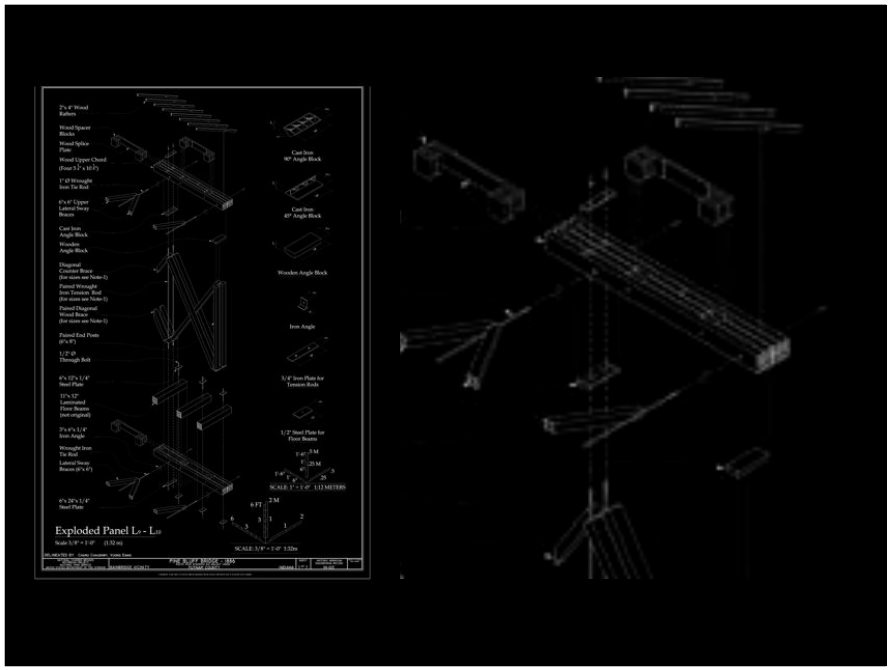


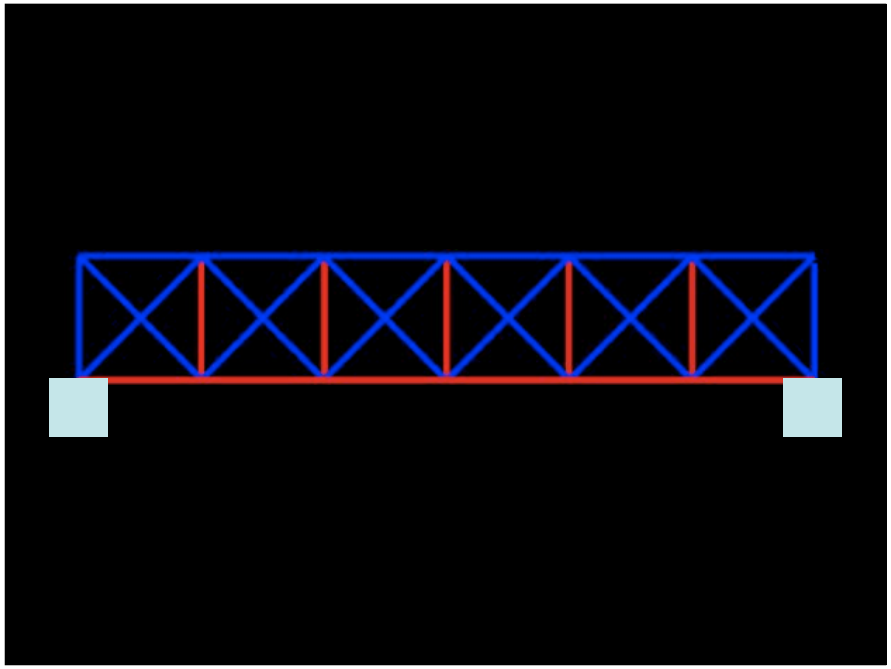


William Howe and the Howe Truss

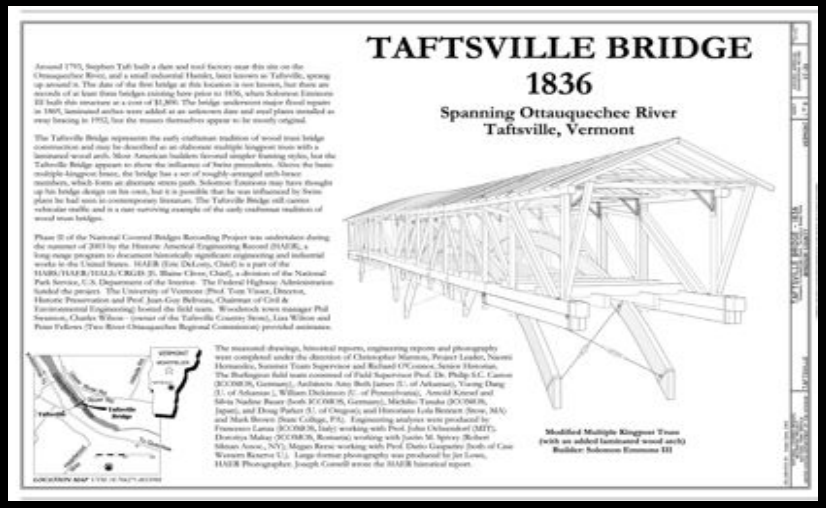





Exploded Panel L2 - L10



Future of Covered Wooden Bridges


TAFTSVILLE BRIDGE
1836
Spanning Ottauquechee River
Taftsville, Vermont
Modified Multiple Kingpost Truss
(with an added laminated wood arch)
Builder: Solomon Emmons III




Oakland Bay Bridge

-Read the article
-Identify issues of permanence, safety, economy, elegance, social, constructibility, efficiency regarding the bridge
-Sketch the form and draw a load path diagram for a load to the right of the main tower

Oakland Bay Bridge

-Read the article
-Identify issues of permanence, safety, economy, elegance, social, constructibility, efficiency regarding the bridge
-Sketch the form and draw a load path diagram for a load to the right of the main tower
-In groups of three, discuss issues of efficiency, economy and elegance
-Report to the class