

FAC 8513 VEHICLE BRIDGE

FY22 SUC: \$28.09 SY

Source: Inflated from previous FY using ENR labor and material cost indices to measure actual inflation

Original Source: Three studies were used to revise the unit cost:

The “Historical Life Cycle (LC) Costs of Steel and Girder Bridges” report was prepared for the American Iron and Steel Institute and the Short Span Steel Bridge Alliance by Dr. Michael Barker, Professor of Civil Engineering at the University of Wyoming, May 2016, using data for multiple bridges (PennDOT Database), projected to 2014.

A Connecticut DOT life cycle cost study of the Moses Wheeler Bridge provides cost in 2009 dollars.

A Kentucky life cycle cost study (dissertation) of the bridge carrying Huntertown Road over the Bluegrass Parkway provides a cost estimate from 2015.

The resulting average of these three studies is:

Study	Cost/SF	Cost/SY	Year	Inflation	FY17 SUC
Michael Baker		\$ 3.52	2014	1.070819	3.76607
Connecticut	\$ 2.91	\$ 26.20	2009	1.163282	30.47799
Kentucky	\$ 3.72	\$ 33.50	2015	1.046557	35.05966
				Average	23.10124

Note: The Barker study is based data extracted from the Pennsylvania DOT database.