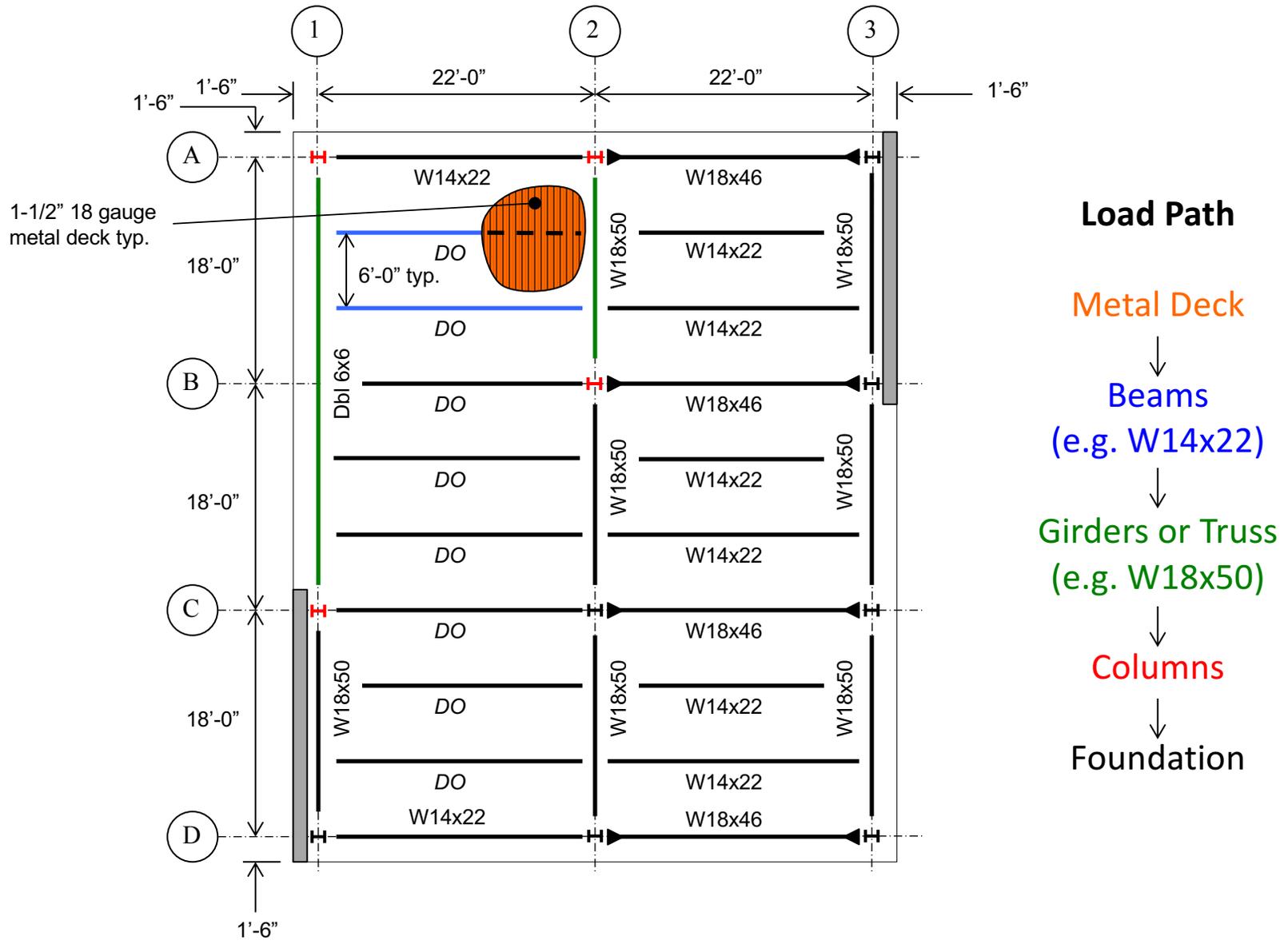


Tributary Area of Structural Members

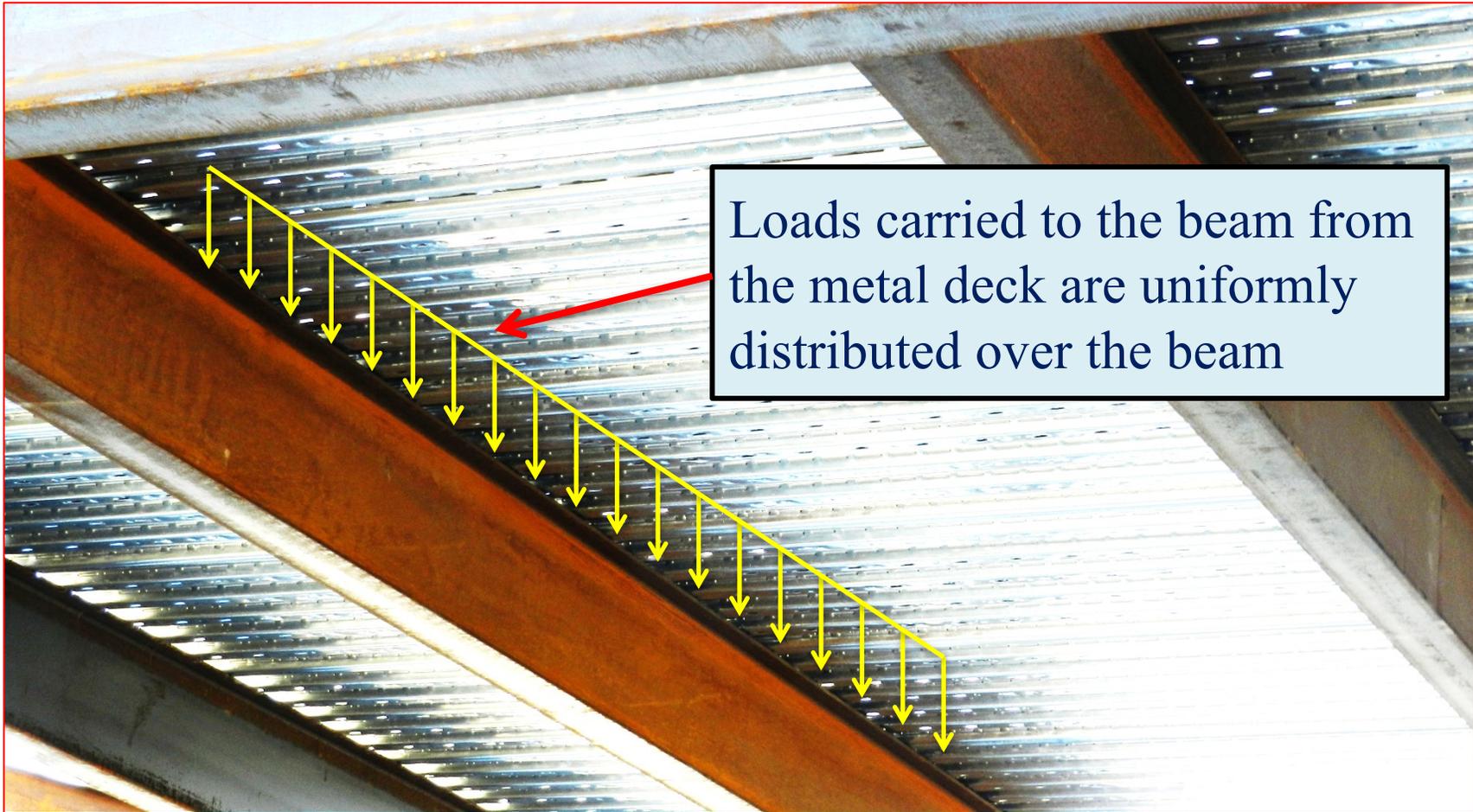
Steven Vukazich

San Jose State University

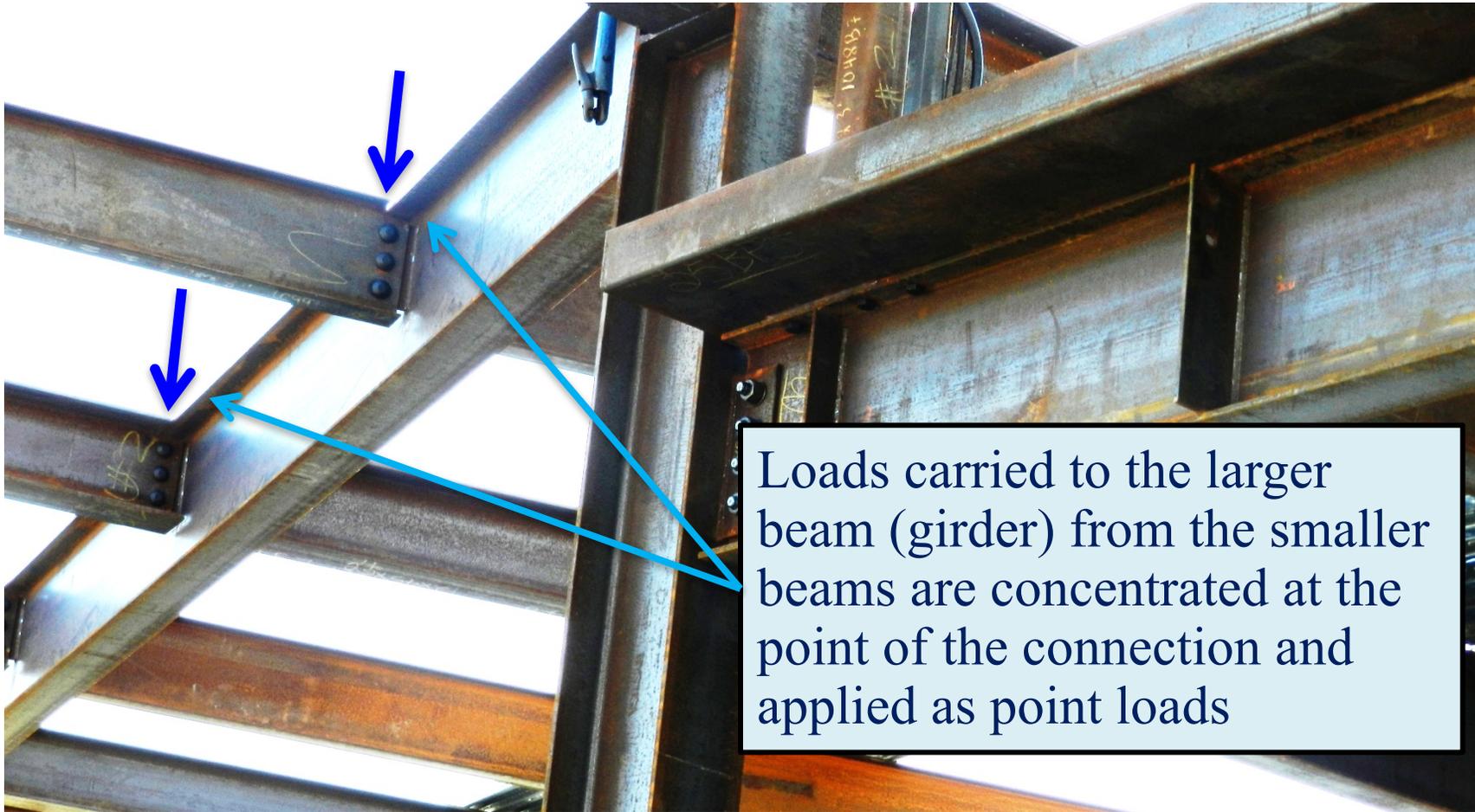
Vertical (Gravity) Load Path



Deck Carries Uniform Load to Beams

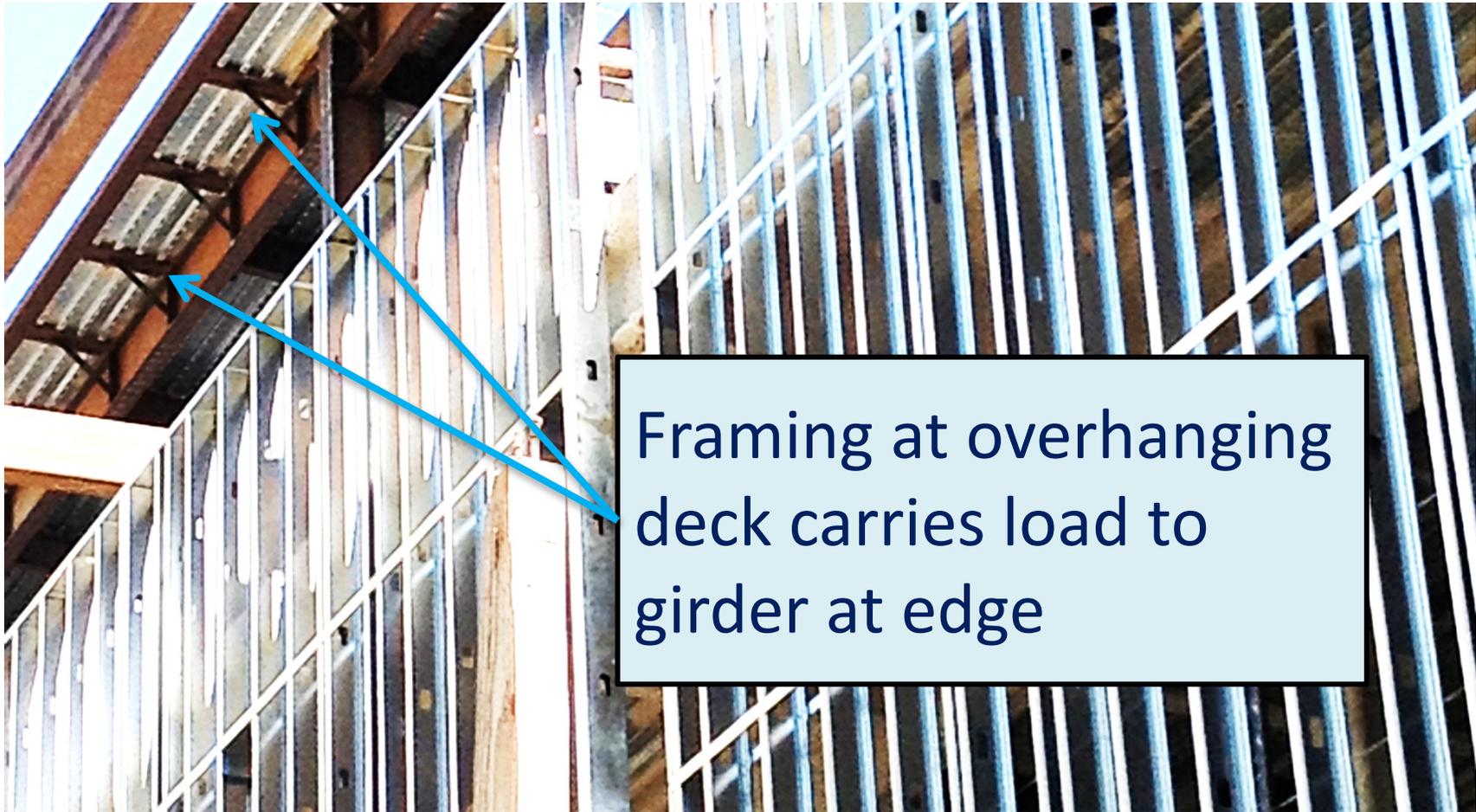


Vertical (Gravity) Load Path



Loads carried to the larger beam (girder) from the smaller beams are concentrated at the point of the connection and applied as point loads

Framing at Deck Overhang



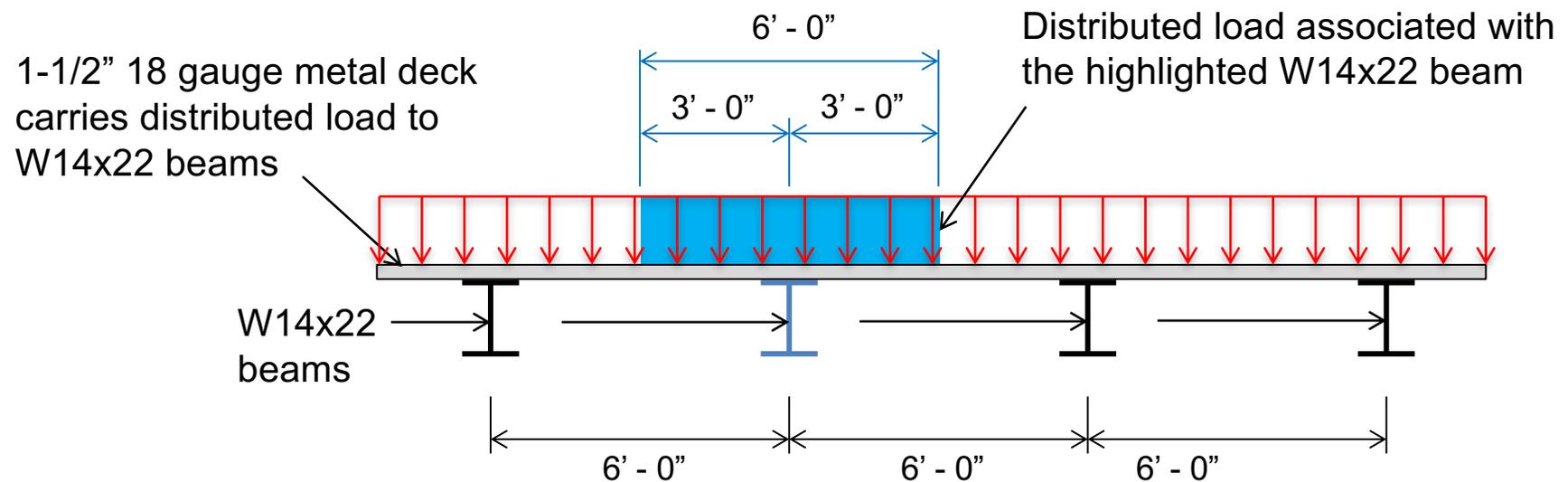
Concept of Tributary Area

Tributary area is the area associated with loading a structural member

Tributary area is an approximate relative measure of how much load a member takes in the load path.

Consider a Uniformly Distributed Load on the Roof Level of the CE 160 Lab Building

Cross Section of Structural Members at the Roof Level



Tributary Area of Members in CE 160 Lab Building

