



**TOPIC: Structural Design – OSSC/16/#2**

**CODE: Oregon Structural Specialty Code, 2014 Edition  
Oregon Fire Code, 2014 Edition**

**REVISED: September 16, 2016 [Paul L. Scarlett] Director**

**REFERENCE: Chapter 16, Oregon Structural Specialty Code  
Section 503, Oregon Fire Code**

**SUBJECT: Elevated Private Driveways and Parking Decks –  
Structural Design Loads**

**QUESTION:** What are the structural loading requirements for private elevated driveways and parking decks?

**RESPONSE:** Private elevated driveway structures and parking decks will be subjected to the loading caused by heavy vehicles such as garbage trucks, delivery trucks, and moving vans. The Portland Bureau of Transportation (PBOT) requires ramps or decks that are constructed in the street right-of-way to meet the live load design requirements of the AASHTO HS- 20 Design Truck as a minimum. To meet PBOT standards, elevated private driveway structures and parking decks shall be designed to support the same vehicle load as the adjacent street or shoulder (HS-20 Design Truck minimum, see illustration on page 2). However, if fire apparatus access is provided by an elevated private driveway or parking deck that access must be designed and constructed to meet AASHTO HS-25 loading per requirements of the Oregon Fire Code.

Overhead barriers that restrict the height of vehicles entering a driveway or parking area will not be accepted as an alternative to providing the minimum structural load design.

OSSC/16/#2

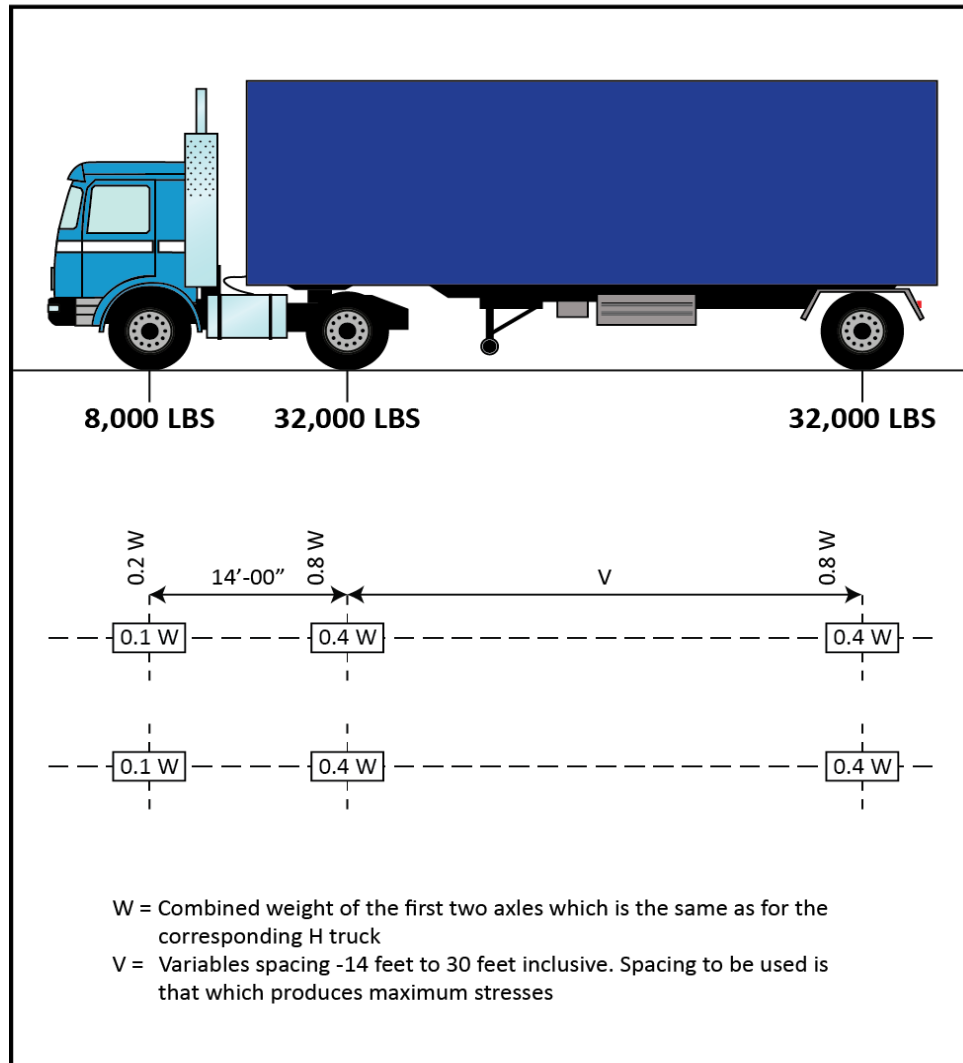
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Questions regarding the street design loads should be directed to the Portland Bureau of Transportation at 503-823-7002.

This figure illustrates the AASHTO HS-20 design truck.



Updates March 1, 1999 edition

Updates July 1, 1996 edition

Replaces Code Guide UBC/23/#2 which replaced Policy & Procedures # D-39