



## 6.2 STEEL PEDESTRIAN BRIDGE SUPERSTRUCTURES

### 6.2.1 GENERAL

This policy addresses structure design requirements for steel pedestrian bridge superstructures. Pedestrian bridges are structures that cross highways, local roads, railroads, waterways, and other features. They are primarily designed for pedestrian, bicyclist, equestrian, or light-maintenance-vehicle traffic but are not designed for typical highway traffic.

### 6.2.2 STEEL PEDESTRIAN BRIDGE CLASSIFICATIONS

Steel pedestrian bridges must be classified as either a “standard bridge” or a “minor bridge.” These classifications herein are used in determining the design criteria for steel pedestrian bridge superstructures.

A steel pedestrian bridge is classified as a standard bridge if it satisfies one or more of the following:

- Bridge crosses over state highways, local roads, railroads, or waterways.
- Bridge provides a major link for the public to important service facilities such as schools, transportation hubs, public sports and convention facilities, libraries, and hospitals.

A steel pedestrian bridge not meeting the designation of a standard bridge should be classified as a minor bridge. A steel pedestrian bridge to be classified as a minor bridge must be approved through the Type Selection process.

### 6.2.3 DESIGN SPECIFICATIONS

Steel pedestrian bridge superstructures must be designed in accordance with the current versions of *AASHTO-CA BDS* (AASHTO, 2017; Caltrans, 2019), and *AASHTO LRFD GSDPB* (AASHTO, 2009 and 2015).

### 6.2.4 STEEL MEMBER IDENTIFICATION

All steel members in a standard bridge must be identified on the plans as a Fracture Critical Member (FCM), a Primary Member (Main Member), or a Secondary Member in accordance with Caltrans STP 6.1.



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All steel members in a minor bridge should be identified on the plans as a Primary Member (Main Member) or a Secondary Member in accordance with STP 6.1. For minor bridges, it is unnecessary to identify FCMs.

### 6.2.5 REFERENCES

1. AASHTO. (2009, 2015). *AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges*, 2<sup>nd</sup> Edition and 2015 Interim Revisions, American Association of State Highway and Transportation Officials, Washington DC.
2. AASHTO. (2017). *AASHTO LRFD Bridge Design Specifications*, 8th Edition, American Association of State Highway and Transportation Officials, Washington DC.
3. Caltrans. (2017). *Design Information Bulletin (DIB) 82-06, Pedestrian Accessibility Guidelines for Highway Projects*, California Department of Transportation, Sacramento, CA.
4. Caltrans. (2018a). *Highway Design Manual*, Sixth Edition, California Department of Transportation, Sacramento, CA.
5. Caltrans. (2018b). *Highway Design Manual*, Sixth Edition, California Department of Transportation, Sacramento, CA.
6. Caltrans. (2019). *California Amendments to AASHTO LRFD Bridge Design Specifications*, Eighth Edition, California Department of Transportation, Sacramento, CA.