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CONSTRUCTION IIA-3 ASTM A36 $F_y = 36$ ksi $F_u = 58$ ksi From
AISC Manual Table 1-1, the geometric properties are as follows:

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Beam W36 231 $t_w = 0.760$ in. Column W14 90 $t_f = 0.710$ in.
From Chapter 2 of ASCE/SEI 7, the required strength is:

EXAMPLE II.A-1 ALL-BOLTED DOUBLE-ANGLE CONNECTION **Given**

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Manual Companion (Design Examples & Tables) The v15.1 Companion to the AISC Steel Construction Manual is a resource that supplements the 15th Edition Steel Construction Manual and is keyed to the 2016 Specification for Structural Steel Buildings. The v15.1 Companion is an update of the v15.0 Design Examples with the design examples and tables split into two separate volumes.

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15th Edition AISC Steel Construction Manual, is referred to as the AISC Manual. 2. The source of equations or tabulated values taken from the AISC Specification or AISC Manual is noted along the right-hand edge of the page. 3. Values are presented to three significant figures throughout this Companion. iii

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma Step II.

Determine the effective lengths • According to Table C-C2.1 of the AISC Manual (see page 16.1 - 189): - For pin-pin end conditions about the minor axis $K_y = 1.0$ (theoretical value); and $K_y = 1.0$ (recommended design value) - For pin-fix end conditions about the major axis

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CHAPTER 3. COMPRESSION MEMBER DESIGN 3.1 INTRODUCTORY CONCEPTS

December 7, 2017. (Chicago, IL) - AISC is offering several new resources that complement the 15th Edition Steel Construction Manual, released this past summer. Included are the v15.0 Design Examples, v15.0 Shapes Database, v15.0H Historic Shapes Database, Basic Design Values Cards and Interactive Reference List.

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CONSTRUCTION LRFD ASD 3 1.50 kips 12.0 ft 12 in./ft 0.90(50 ksi) 4 1.20 in. br req y M Z F I 3 1.67 1.00 kip 12.0 ft 12 in./ft 50 ksi 4 1.20 in. br req y M Z F: From AISC Manual Table 3-2, select a W8u13 member with $Z_x = 11.4 \text{ in.}^3$ and $I_x = 39.6 \text{ in.}^4$

EXAMPLE A-6.2 POINT STABILITY BRACING OF A WT-SHAPE COLUMN ...

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CE 405: Design of Steel Structures – Prof. Dr. A. Varma • In Figure 4, M_y is the moment corresponding to first yield and M_p is the plastic moment capacity of the cross-section. - The ratio of M_p to M_y is called as the shape factor f for the section. - For a rectangular section, f is equal to 1.5. For a wide-flange section, f is equal to 1.1. ...

Chapter 2. Design of Beams - Flexure and Shear

6300. Design - 6320. Structural Steel Connections, Joints and Details • General Provisions (Section NJ1) • Types of Structural Welds and Their Applications (Section NJ2 and AISC Manual Part 8) • Types of Structural Bolts and Bolted Connections (Section

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NJ3 and AISC Manual Part 7)

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