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Concrete? AASHTO LRFD Bridge
Design Specifications: Loads and
General Information

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24EI

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LRFD Bridge Design
Specifications, Fifth Edition with
2011 Interim Revisions. The below
chart is a sample of those

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products. The charts can be accessed in Preliminary LRFD Design Charts which you can download below.

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STANDARD PRODUCTS AASHTO
Box Beams OCT 97 Dimensions
(inches) Type W H BI-36 36 27
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bottom in. Inertia in.⁴ Weight kip/ft
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– Prestressed Concrete July 2020
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considerations for skewed and
curved bridges. Designers shall
pay special attention to the haunch

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thickness of prestressed girders when they are used in conjunction with a high degree of vertical and horizontal curvature which could present challenges to meeting haunch dimension requirements.

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This book examines and explains material from the 9th edition of the AASHTO LRFD Bridge Design Specifications, including deck and parapet design, load calculations, limit states and load combinations, concrete and steel I-girder design, bearing design, and more. With increased focus on earthquake resiliency, two separate chapters – one on conventional seismic design and the other on seismic isolation applied to bridges – will fully address this vital topic. The

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primary focus is on steel and concrete I-girder bridges, with regard to both superstructure and substructure design. Features: Includes several worked examples for a project bridge as well as actual bridges designed by the author Examines seismic design concepts and design details for bridges Presents the latest material based on the 9th edition of the LRFD Bridge Design Specifications Covers fatigue, strength, service, and extreme event limit states Includes numerous solved problems and exercises at the end of each chapter to illustrate the concepts presented LRFD Bridge Design: Fundamentals and Applications will serve as a useful text for graduate and upper-level undergraduate

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civil engineering students as well as practicing structural engineers.

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Cycle Performance Analysis and
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Inspection Expands and rewrites
the Maintenance Inspection and
Rating chapter into three chapters:
Bridge Inspection, Steel Bridge
Evaluation and Rating, and
Concrete Bridge Evaluation and
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