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What is Prestressed Concrete? AASHTO

LRFD Bridge Design Specifications: Loads
and General Information

PCI Foundation Precast Bridge Studio

(PBS) at Sacramento State Fall 2018

LECTURE 10 DESIGN OF BRIDGE

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GIRDERS AND DESIGN OF
PRESTRESSED CONCRETE MiBridge
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Design Manual Chapter
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CHAPTER 6 PRELIMINARY DESIGN

6.5.1 Product Types/6.5.2 Design Criteria 6
- 14 (Nov 11) 6.10. Traditional sections such

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as rectangular box beams, AASHTO I
-beams and AASHTO-PCI Bulb-Tee
sections

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PCI BRIDGE DESIGN
MANUAL_____CHAPTER 8 DESIGN

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THEORY AND PROCEDURE 8.7 Camber
and Deflection 8 63 (Mar 16) Table 8.7-1

Camber (deflection) and rotation coeffi
cients for prestress force and loads* End

Rotation M $F 6EI$ M $F 3EI$ M $F 2EI$

N $F 6 16EI$ $b_1 F b N$ $F 6 2EI$ w $F 7$

$24EI$

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PCI BRIDGE DESIGN MANUAL CHAPTER DESIGN THEORY AND PROCEDURE

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comprehensive, electronic design manual
includes both preliminary and final design
information for standard girders and most

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precast and precast, prestressed concrete products and systems used for transportation structures. It contains background, strategies for economy, fabrication techniques, evaluation of loads, load tables, design theory and numerous complete design examples.

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Dwight Perrotte ...

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CHAPTER 9, DESIGN EXAMPLE 9.4.

BOX BEAM (BIII-48), SINGLE SPAN,
NONCOMPOSITE SURFACE. 9.4.15.6

Deflection Due to Live Load and

Impact/9.4.16 Transverse Post-Tensioning.

9.4 - 37 (Oct 15) Therefore, live load

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deflection is the greater of: . LT.

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BEAM (BIII-48), SINGLE SPAN ...
THE NEW PCI BRIDGE DESIGN
MANUAL and PCI Precast “ Folded
Slabs ” for Superelevation Transitions .
BDM HISTORY • The original BDM

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dates to Oct. 1997. – At that time,,y many States still used the old ... CHAPTER 9 – DESIGN EXAMPLES Design example 9.1a is the same as Example 9.4

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Design Manual features background, strategies for economy, fabrication techniques, evaluation of loads, load tables, design theory and numerous complete design examples.

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PCI has developed Preliminary Design Charts in accordance with the AASHTO. 2010. AASHTO LRFD Bridge Design Specifications, Fifth Edition with 2011 Interim Revisions. The below chart is a sample of those products. The charts can be accessed in Preliminary LRFD Design Charts which you can download below.

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Bridge Design - PCI

PCI Design Handbook. The authority for the design, manufacture, and use of precast, prestressed concrete. Purchase the 8th Edition

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PCI Bridge Design Manual, 3rd Edition (MNL-133-11) This comprehensive, electronic design manual includes both preliminary and final design information for standard girders and most precast and precast, prestressed concrete products and systems used for transportation structures. It contains background, strategies for

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economy, fabrication techniques, evaluation of loads, load tables, design theory and numerous complete design examples.

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Limits for Concrete 9.6.7.2 Stresses at
Transfer Length Section 9.6.7.3 Stresses at
Harp Points 9.6.7.4 Stresses at Midspan
9.6.7.5 Hold-Down Forces 9.6.7.6 Summary
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APPENDIX B AASHTO/PCI STANDARD

PRODUCTS AASHTO Box Beams OCT

97 Dimensions (inches) Type W H BI-36 36

27 BI-48 48 27 BII-36 36 33 BII-48 48 33

BIII-36 36 39 BIII-48 48 39 BIV-36 36 42

BIV-48 48 42 Properties Type Area in.² y

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bottom in. Inertia in.⁴ Weight kip/ft Max.
Span* ft BI-36 560.5 13.35 50,334 0.584 92
BI-48 692 ...

PCI Bridge Manual Appendix B,
AASHTO/PCI Standard Products
WisDOT Bridge Manual Chapter 19 –
Prestressed Concrete July 2020 19-7 19.3

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Pretensioned Member Design This section outlines several important considerations associated with the design of conventional pretensioned members.

19.3.1 Design Strengths

The typical specified design strengths for pretensioned members are:

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Prestressed Concrete
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Refer to PCI Bridge Design Manual for
additional design considerations for skewed
and curved bridges. Designers shall pay

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special attention to the haunch 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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The 2015 Bridge Design Manual was developed to provide guidance to design engineers, technicians, and inspection personnel engaged in bridge design, plan preparation, construction, and inspection activities for the New Hampshire Department of Transportation. It encourages uniform application of design

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methodology and criteria, as well as
standard details in plan preparation for
bridges and ...

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