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PCI BRIDGE DESIGN
MANUAL _____ CHAPTER
6 PRELIMINARY DESIGN

6.5.1 Product

Types/6.5.2 Design

Criteria 6 - 14 (Nov 11)

6.10. Traditional
sections such as
rectangular box
beams, AASHTO I

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-beams and AASHTO-
PCI Bulb-Tee sections

**PCI Bridge Design
Manual - 3rd Edition,
First Release ...**

PCI BRIDGE DESIGN
MANUAL____CHAPTER
8 DESIGN THEORY AND
PROCEDURE 8.7

Camber and Deflection

8 -63 (Mar 16) Table

8.7-1 Camber

(deflection) and

rotation coefficients

for prestress force and

loads* End Rotation Ml

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F 6EI Mℓ F 3EI Mℓ F 2EI
Nℓ F 6 16EI b1 FbNℓ F 6
2EI wℓ F 7 24EI

**PCI BRIDGE DESIGN
MANUAL CHAPTER
DESIGN THEORY
AND PROCEDURE**

PCI BRIDGE DESIGN
MANUAL _____ CHAPTER
9, DESIGN EXAMPLE
9.1a BULB-TEE (BT-72),
SINGLE SPAN,
COMPOSITE DECK
9.1a.12.3 Required
Interface Shear
Reinforcement/9.1a.13

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Minimum Longitudinal
Reinforcement
Requirement 9.1a - 38
(Nov 11 w/errata date
April 12) where c =
cohesion factor, ksi

CHAPTER 9, DESIGN EXAMPLE 9.1a BULB- TEE (BT-72 ... - PCI

part of the 8-in. deck.
Design live load is
AASHTO LRFD HL-93.
The design will be
carried out in
accordance with the
AASHTO LRFD Bridge

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Design Specifications,
2nd Edition, 1998, and
including through the
2003 Interim Revisions.

PCI BRIDGE DESIGN
MANUAL CHAPTER 9,
SECTION 9.6 JUL 03
9.6.1 INTRODUCTION

Figure 9.6.1-1

Longitudinal Section
Bulb-Tee ...

**PCI BRIDGE DESIGN
MANUAL TABLE OF
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papers.

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MNL133 - PCI Bridge
Design Manual, 3rd
Ed., FREE PDF PCI
Bridge Design Manual,
3rd Edition FREE PDF
(MNL-133-11E) This
comprehensive,
electronic design
manual includes both
preliminary and final
design information for

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standard girders and most precast and precast, prestressed concrete products and systems used for transportation structures.

Item Detail - MNL133 - PCI Bridge Design Manual, 3rd Ed ...

PCI BRIDGE DESIGN
MANUAL CHAPTER 9,
DESIGN EXAMPLE 9.4
BOX BEAM (BIII-48),
SINGLE SPAN,

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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 deflection is the
greater of: Δ_{LT}

**PCI BRIDGE DESIGN
MANUAL BOX BEAM
(BIII-48), SINGLE
SPAN ...**

PCI BRIDGE DESIGN
MANUAL APPENDIX B

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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 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 ...

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**PCI Bridge Manual
Appendix B,
AASHTO/PCI
Standard Products**

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

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Design Charts which you can download below.

Bridge Design - PCI

This publication was first printed in the Precast/Prestressed Concrete Institute Bridge Design Manual, MNL-133, as Chapter 20, Precast Prestressed Concrete Piles. It is reprinted in this form as a convenience for designers and others with an interest in

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precast, prestressed
concrete...

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PCI BRIDGE DESIGN
MANUAL CHAPTER 12
NOTATION CURVED
AND SKEWED BRIDGES

A = area A = area of
cross-section of the
precast beam A_c =
total area of the
composite section A_{cp}
= total area enclosed
by outside perimeter of
concrete cross-section
 a = a length defined in

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Figure 12.4.1.1-1 $B =$
width $b_v =$ effective
web width $C =$
coefficient to compute
centrifugal force

PCI Bridge Manual Chapter 12 - sefindia.org

The 2015 Bridge
Design Manual was
developed to provide
guidance to design
engineers, technicians,
and inspection
personnel engaged in
bridge design, plan

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preparation, construction, and inspection activities for the New Hampshire Department of Transportation. It encourages uniform application of design methodology and criteria, as well as standard details in plan preparation for bridges and ...

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Manual | Bridge
Design | NH**

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Department of ...

WisDOT Bridge Manual
Chapter 19 -

Prestressed Concrete
July 2020 19-7 19.3

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

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pretensioned members
are: Prestressed I-
girder concrete ...

WisDOT Bridge Manual Chapter 19 - Prestressed Concrete

MICHIGAN DESIGN
MANUAL BRIDGE
DESIGN CHAPTER 3
PLAN COMPOSITION -
NEW &
RECONSTRUCTION
PROJECTS 3.00
GENERAL (12-17-2018)
New Construction and

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Reconstruction (4R) is defined as a new bridge, a bridge replacement, a superstructure replacement, a deck replacement or widening of at least one lane width (including a lane used for

**Bridge Design
Manual - Chapter 3**
manual. Chapter 2,
Limit States and Loads.
General information on

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limit states and on load factors. Chapter 3, Superstructure Design. Policy on LRFD design of specific bridge superstructure components. Chapter 4, Substructure Design. Policy on LRFD design of specific bridge substructure components. Chapter 5, Other Designs. Design guidelines ...

**Bridge Design
Manual - LRFD (LRF)**

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**PRECAST
PRESTRESSED
CONCRETE BRIDGE
DESIGN MANUAL.
VOLUMES 1 AND 2.** The
PCI Bridge Design
Manual as of October
1997 contains: Two
loose-leaf notebooks
(Volume 1 and ...

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PRESTRESSED
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DESIGN MANUAL.
VOLUMES ...**

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CPCI launched its first ever webinar series to present each chapter of the CPCI Fifth Edition Design Manual. The webinars were presented by the Chapter Editors to CPCI members, engineers, owners/developers, designers and AEC professionals, from May to October, 2018,

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and are still available for viewing.

CPCI Design Manual - Canadian Precast Prestressed Concrete ...

The PCI Bridge Design Manual (2003) addresses the lateral stability of slender members in Chapter 8.10 which outlines a procedure for calculating a factor of safety against cracking for a hanging beam.

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Lifting Analysis of Precast Prestressed Concrete Beams

Bridge Manual Chapter
7 on Accelerated

Bridge Construction

(pdf) Videos: 2017 ABC
Lightbulb (8 minutes)

2016 Local Roads GRS-
IBS Bridge

Replacement Project,
built with help of FHWA
AID grant (4 minutes)

ABC Bridge Standards
(GRS, PBE – Piers)

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