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PRELIMINARY DESIGN

PCI BRIDGE DESIGN

MANUAL_____CHAP

TER 9, DESIGN

EXAMPLE 9.1a BULB-

TEE (BT-72), SINGLE

SPAN, COMPOSITE

DECK 9.1a.12.3

Required Interface

Shear

Reinforcement/9.1a.1

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3 Minimum
Longitudinal
Reinforcement
Requirement

**(PDF) PCI Bridge
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Drasko Basovic ...**
2017 National ABC
Conference – Pre-
Conference
Workshops W-08:
Today's Precast,
Prestressed Concrete

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Bridge Design

Wednesday,

December 6, 2017 –

1:00 p.m. to 5:00 p.m.

Introduction: This series of talks by members and staff of the Precast/Prestressed Concrete Institute (PCI) will focus on key elements of bridge design.

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STANDARD
PRODUCTS

AASHTO Solid and
Voided Slab Beams
OCT 97 Dimensions
(inches) ... See
chapter 6 for more
information. ...

AASHTO-PCI Bulb-
Tees 4612 Bridge
Manual APPENDIX B
6/30/03 3:13 PM
Page 7.

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TER 8 DESIGN
THEORY AND
PROCEDURE 8.7

Camber and
Deflection 8 ?63 (Mar
16) Table 8.7-1
Camber (deflection)
and rotation coeffi
cients for prestress

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force and loads* End
Rotation $M? F 6EI M?$
 $F 3EI M? F 2EI N? F 6$
 $16EI b1 FbN? F 6 2EI$
 $w? F 7 24EI$

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CHAPTER DESIGN
THEORY AND
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MANUAL _____
CHAPTER 9,
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DESIGN EXAMPLE

Chapter 5
9.1a BULB-TEE

(BT-72), SINGLE
SPAN, COMPOSITE
DECK 9.1a.8.5.4

Stresses from Deck
Shrinkage/9.1a.9

Strength Limit State

9.1a - 32 (Nov 11) It is likely, however, that the full calculated force from deck shrinkage will not occur because of the

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presence of
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DESIGN EXAMPLE
9.1a BULB-TEE
(BT-72 ... - PCI
PCI BRIDGE DESIGN
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TER 6 PRELIMINARY
DESIGN 6.9
Preliminary Design
Charts 6 - 33 (Jun 15)
Chart NEXT-1 NEXT
Type D Beams Chart**

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NEXT-2 NEXT Type

D x 96 Beams 50 55

60 65 70 75 80 85 90

28 32 36 40

MAXIMUM SPAN, FT

SECTION DEPTH,

INCHES MAXIMUM

SPAN VS SECTION

DEPTH NEXT D x 96

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9.1a BULB-TEE
(BT-72 ... - PCI**

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CHAPTER 2:
BRIDGE

EVALUATION Bridge
Design Manual: The
Connecticut Bridge
Design Manual, dated
7 Better than present
minimum criteria Per
Capita Income (PCI)
is used because the
income from which
taxes are paid has.
ASCE STANDARD,
SEI/ASCE 7-02

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Minimum Design
Loads for Buildings
and Other Structures
Designing. PCI Bridge
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SergioHale3352 -
Issuu**

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STRUCTURAL with spans in the 29.5 ft to 40 ft (9 m to 12 m) range. PCI Bridge Design Manual, Volumes One and Two, current edition.

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The Bridge Design Manual covers both preliminary and final design information for standard girders and

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most precast and precast, prestressed concrete products and systems used in bridge structures. The book is designed to explain and amplify the application of both the AASHTO Standard and LRFD Bridge Design Specifications.

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Precast Prestressed
Concrete Piles -
Chapter 20, Bridge
Design Manual, Sept.
2004, 1st Edition
(BM-20) This
publication was first
printed in the
Precast/Prestressed
Concrete Institute
Bridge Design
Manual, MNL-133, as
Chapter 20, Precast

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Piles.

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PRELIMINARY
DESIGN 6.3.2
Abutments/6.5.1
Product Types 6 - 13
(Nov 11) For precast
Page 20/33

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abutment walls, full capacity may be accomplished by means of field welding of connecting steel

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WSDOT Bridge
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July 2019 Chapter 5
Concrete Structures
5.0 General The

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provisions in this section apply to the design of cast-in-place (CIP) and precast concrete structures, both reinforced and prestressed. Design of concrete structures shall be based on the requirements and guidance cited

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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

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

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MANUAL BRIDGE
DESIGN CHAPTER 3
PLAN

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COMPOSITION -
NEW &
RECONSTRUCTION
PROJECTS 3.00
GENERAL
(12-17-2018) New
Construction and
Reconstruction (4R) is
defined as a new
bridge, a bridge
replacement, a
superstructure
replacement, a deck
replacement or

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widening of at least
one lane width
(including a lane used
for

**Rita L. Seraderian,
PE FPCI, LEED AP
Executive Director ...**

Updating the Bridge
Design Manual is a
continual process,
with revisions being
made periodically.

Suggestions for

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improvements and updating of this Manual are always welcome. Design changes will be issued through Design Memorandums, which will remain in effect until superseded by an update to the Bridge Design Manual.

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Design | NH
Department of ...**
MICHIGAN DESIGN
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DESIGN 8.02 TITLE
SHEET Care should
be taken to see that
the notes appearing
on the title sheet
actually apply to the
work being done on

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the project. Most of the standard notes included in the Design Manual relate to new construction. For rehabilitation projects the wording of some of these notes must be modified.

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AASHTO/PCI
Standard Products**

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Preliminary Design

6.9 Prelim. Design

Charts NEXT Type D

Beams NEXT Type F

Beams 6.10 Prelim.

Design Data NEXT

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Type D Beams NEXT
Chapter 5
Type F Beams

Chapter 9 – Design

Examples Example

9.7 NEXT Type 36 D

Single Span Non-

Composite Deck

Example 9.8 NEXT

Type 36 F Single

Span Composite

Deck PCI BRIDGE

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