

TERMS AND ABBREVIATIONS

The Bridge Design Practice (BDP), 5th Edition, uses the following terms and standard abbreviations.

TERMS

AASHTO xx.x-x—Caltrans currently adopted *AASHTO LRFD Bridge Design Specifications* Equation xx.x-x

Article—Article in the Caltrans currently adopted *AASHTO LRFD Bridge Design Specifications and California Amendments*, i.e., *AASHTO-CA BDS-8*.

CA xx.x-x—Caltrans currently adopted *California Amendments* Equation xx.x-x

May—Indicates a permissible criterion.

Must—Synonymous with *Shall*, which indicates a requirement for compliance unless a design exception is approved.

Shall—Indicates a requirement for compliance unless a design exception is approved.

Should—Indicates a strong preference for a given criterion.

ABBREVIATIONS

For organizations of technical publications and common terminologies used more than once in a BDP chapter, the abbreviations should be used and written out within a parenthesis when they first appear.

National Organizations

AASHTO—American Association of State Highway and Transportation Officials

ACI—American Concrete Institute

AISC—American Institute of Steel Construction

AISI—American Iron and Steel Institute

AREMA—American Railway Engineering and Maintenance-of-Way Association

ASBI—American Segmental Bridge Institute

ASCE—American Society of Civil Engineers

ASTM—American Society for Testing and Materials

AWS—American Welding Society

FEMA—Federal Emergency Management Agency

FHWA—Federal Highway Administration



NCHRP—National Cooperative Highway Research Program

NHI—National Highway Institute

NOAA—National Oceanic and Atmospheric Administration

NSBA—National Steel Bridge Alliance

NTSB—National Transportation Safety Board

PCI—Precast/Prestressed Concrete Institute

PTI—Post-tensioning Institute

TRB—Transportation Research Board

USDOT—United States Department of Transportation

Common Terminologies Used in Caltrans

AADT—Annualized Average Daily Traffic

ABC—Accelerated Bridge Construction

ADT—Average Daily Traffic

ADTT—Average Daily Truck Traffic

ASD—Allowable Stress Design

CIDH—Cast-in-Drilled-Hole

CIP—Cast-in-Place

CISS—Cast-in-Steel-Shell

CMP—Corrugated Metal Pipe

CPM—Capacity Protected Members

CRC—Corrosion Resistant Concrete

CSL—Cross-Hole Sonic Logging

CVN—Charpy V-notch

ECR—Epoxy-Coated Reinforcement

EDA—Elastic Dynamic Analysis

EPS—Earthquake Protection System

ERE—Earthquake-Resisting Element

ERS—Earth Retaining System; Earthquake Resisting System

ESA—Equivalent Static Analysis

FCM—Fracture Critical Member

FEA—Finite Element Analysis

FEE—Functional Evaluation Earthquake

FE—Finite Element
FEM—Finite Element Model
FPSB—Friction Pendulum Sliding Bearing
GD—Geotechnical Designer
GGL—Gamma-Gamma Logging
GP—General Plan
HDPE—High Density Polyethylene
IQA—Independent Quality Assurance
JSA—Joint Seal Assembly
LFD—Load Factor Design
LRB—Lead-core Rubber Bearing
LRFD—Load and Resistance Factor Design
MSE—Mechanically Stabilized Embankment
MT—Magnetic Particle Testing
NBI—National Bridge Inventory
NDT—Nondestructive Testing
NHS—National Highway System
NSTM—Nonredundant Steel Tension Member
NTHA—Nonlinear Time History Analysis
P&Q—Plans and Quantities
PC RCB—Precast Reinforced Concrete Box
PC/PS—Precast/Prestressed Concrete
PCC—Portland Cement Concrete
PDCA—Probabilistic Damage Control Approach
PE—Project Engineer
PS&E—Plans, Specifications and Estimates
PSDC—Caltrans Project-Specific Design Criteria
PS—Prestressed
PT—Post-Tensioned; Post-Tensioning
PVC—Polyvinyl Chloride
QA—Quality Assurance
QC—Quality Control
RCB—Reinforced Concrete Box

RCP—Reinforced Concrete Pipe

RC—Reinforced Concrete

RSC—Rapid Strength Concrete

RSP—Rock Slope Protection

SCM—Seismic Critical Member, Supplementary Cementitious Material

SD—Structural Designer

SEE—Safety Evaluation Earthquake

SHS—State Highway System

SIPMF—Stay-In-Place Metal Forms

UHPC—Ultra-High Performance Concrete

UT—Ultrasonic Testing

WIM—Weigh-in-Motion

Caltrans Organizations

BD—Bridge Design

Caltrans—California Department of Transportation

DES—Division of Engineering Services

GS—Geotechnical Services

METS—Materials Engineering and Testing Services

OEEAR—Office of Earthquake Engineering Analysis & Research

PPMOE—Program/Project Management and Office Engineer

SC—Structure Construction

SES—Structure and Engineering Services

SM&I—Structure Maintenance and Investigation

SPB—Structure Policy Board

Technical Publications

AASHTO GSDPB—*AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges*

AASHTO GSSID—*AASHTO Guide Specifications for Seismic Isolation Design*

AASHTO MBE—*AASHTO Manual for Bridge Evaluation*

AASHTO-CA BDS-8—*AASHTO LRFD Bridge Design Specifications, 8th Edition and California Amendments to AASHTO LRFD Bridge Design Specifications, 8th Edition.*



BCM—Caltrans Bridge Construction Memos
BDD—Caltrans Bridge Design Details
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BDP—Caltrans Bridge Design Practice
BDPPM—Caltrans Bridge Design Process and Procedure Manual
BSD—Caltrans Bridge Standard Details Sheets
CBSSD—California Bridges and Structures Strategic Direction
CFR—Code of Federal Regulations
FWM—Caltrans Falsework Manual
LAPM—Caltrans Local Assistance Procedures Manual
NSSP—Caltrans Nonstandard Special Provisions
PSDC—Caltrans Project-Specific Design Criteria
PSP—Caltrans Project Special Provisions; Perforated Steel Pipe
SDC—Caltrans Seismic Design Criteria
SDSSB—Caltrans Seismic Design Specifications for Steel Bridges
SP—Caltrans Standard Plans
SPD—Caltrans Structure Policy Directive
SS—Caltrans Standard Specifications
SSP—Caltrans Standard Special Provisions
STP—Caltrans Structure Technical Policy