

TERMS AND ABBREVIATIONS

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

TERMS

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

Shall, Must—Indicates a requirement for compliance unless a design exception is sought and approved.

Should—Indicates a strong preference for a given criterion.

May—Indicates a permissible criterion.

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

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

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

PCI—Precast/Prestressed Concrete Institute
PTI—Post-tensioning Institute
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
TRB—Transportation Research Board
USDOT—United States Department of Transportation

Terminologies Used Nationwide

ABC—Accelerated Bridge Construction
ASD—Allowable Stress Design
ADTT—Average Daily Truck Traffic
CIDH—Cast-in-Drilled-Hole
CIP—Cast-in-Place
CISS—Cast-in-Steel-Shell
CVN—Charpy V-notch
ERS—Earth Retaining System; Earthquake Resisting System
FCM—Fracture Critical Member
FE—Finite Element
HPS—High Performance Steel
HS—High Strength
LFD—Load Factor Design
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
PCC—Portland Cement Concrete
PC/PS—Precast/Prestressed



PT—Post-Tensioned; Post-Tensioning

QA—Quality Assurance

QC—Quality Control

RC—Reinforced Concrete

SIPMF—Stay-In-Place Metal Forms

UT—Ultrasonic Testing

WIM—Weigh-in-Motion

Caltrans Organizations

Caltrans—California Department of Transportation

DES—Division of Engineering Services

GS—Geotechnical Services

METS—Materials Engineering and Testing Services

PPMOE—Program/Project Management and Office Engineer

SM&I—Structure Maintenance and Investigation

SC—Structure Construction

BD—Bridge Design

SPB—Structure Policy Board

SES—Structure and Engineering Services

Technical Publications

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

AASHTO GSSID—AASHTO Guide Specifications for Seismic Isolation Design

AASHTO MBE—AASHTO Manual for Bridge Evaluation

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

BCM—Caltrans Bridge Construction Memos

BDD—Caltrans Bridge Design Details

BDM—Caltrans Bridge Design Memos

BDP—Caltrans Bridge Design Practice

BDPPM—Caltrans Bridge Design Process and Procedure Manual

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
SPD—Caltrans Structure Policy Directive
SP—Caltrans Standard Plans
SS—Caltrans Standard Specifications
SSP—Caltrans Standard Special Provisions
STP—Caltrans Structure Technical Policy
XS Sheets—Caltrans Bridge Standard Detail Sheets

Common Terminologies Used in Caltrans

CMP—Corrugated Metal Pipe
CPM—Capacity Protected Members
CRC—Corrosion Resistant Concrete
CSL—Cross-Hole Sonic Logging
ECR—Epoxy-Coated Reinforcement
EDA—Elastic Dynamic Analysis
EPS—Earthquake Protection Systems
ERE—Earthquake Resisting Element
ESA—Equivalent Static Analysis
FEE—Functional Evaluation Earthquake
FPSB—Friction Pendulum Sliding Bearing
GGL—Gamma-Gamma Logging
GP—General Plan
HDPE—High Density Polyethylene
IQA—Independent Quality Assurance
LRB—Lead-core Rubber Bearing



NTHA—Nonlinear Time History Analysis

PC RCB—Precast Reinforced Concrete Box

PE—Project Engineer

PJSA—Caltrans Plate Joint Seal Assembly

P&Q—Plans and Quantities

PS&E—Plans, Specifications, and Estimates

PVC—Polyvinyl chloride

RCB—Reinforced Concrete Box

RCP—Reinforced Concrete Pipe

RSP—Rock Slope Protection

SCM—Seismic Critical Member, Supplementary Cementitious Material

SEE—Safety Evaluation Earthquake

SHS—State Highway System



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