



1.2 TERMS AND ABBREVIATIONS

1.2.1 GENERAL

This policy defines terms and standard abbreviations used in the Structure Technical Policy (STP).

1.2.2 TERMS

Article—Article in the Caltrans currently adopted AASHTO LRFD Bridge Design Specifications and California Amendments.

Must —Indicates a requirement for compliance.

Shall —Indicates a requirement for compliance unless a Design Exception in accordance with SPD 1-3 is approved.

Should—Indicates a strong preference for a given criterion.

May —Indicates a permissible criterion.

1.2.3 ABBREVIATIONS

For Caltrans' organizations, technical publications, and common terminologies used in Caltrans which used more than one time in an STP, the abbreviation should be used and written out within a bracket after the terminology when they first appear.

1.2.3.1 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

1.2.3.2 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
FCM—Fracture Critical Member
FE—Finite Element
LFD—Load Factor Design
LRFD—Load and Resistance Factor Design
MSE—Mechanically Stabilized Earth
MT—Magnetic Particle Testing
NBI—National Bridge Inventory
NDT—Nondestructive Testing
NHS—National Highway System
PCC—Portland Cement Concrete



PC/PS—Precast/Prestressed Concrete

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

1.2.3.3 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

SD—Structure Design

SPB—Structure Policy Board

SP&I—Structure Policy and Innovation

1.2.3.4 Technical Publications

AASHTO-CA BDS—AASHTO LRFD Bridge Design Specifications and California Amendments

AASHTO GSSID—AASHTO Guide Specifications for Seismic Isolation Design

AASHTO MBE—AASHTO Manual for Bridge Evaluation

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

BCM—Caltrans Bridge Construction Memos

BDD—Caltrans Bridge Design Details Manual

BDM—Caltrans Bridge Design Memos



BDP—Caltrans Bridge Design Practice Manual
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
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

1.2.3.5 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

PDCA—Probabilistic Damage Control Approach

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