1.2 TERMS AND ABBREVIATIONS

1.2.1 GENERAL

This Bridge Design Memo (BDM) defines terms and standard abbreviations used in the BDMs. Unless indicated otherwise, interpret the meaning of a term or abbreviation used in the BDMs as defined in this memo.

1.2.2 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*.

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.

1.2.3 ABBREVIATIONS

The abbreviations and acronyms herein need not be spelled out or redefined in other BDMs.

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

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

1.2.3.2 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

1.2.3.3 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—Structures and Engineering Services

SMI—Structure Maintenance and Investigation

SPB—Structure Policy Board

1.2.3.4 Commonly Referenced Manuals and Publications

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

AASHTO GSSID—AASHTO Guide Specifications for Seismic Isolation Design

AASHTO MBE—AASHTO The Manual for Bridge Evaluation

AASHTO-CA BDS-8—8th Edition of the *AASHTO LRFD Bridge Design Specifications* and accompanying *California Amendments*

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*

BSD—Caltrans *Bridge Standard Details Sheets*

CFR—Code of Federal Regulations

FWM—Caltrans *Falsework Manual*

GM—Caltrans *Geotechnical Manual*

LAPM—Caltrans *Local Assistance Procedures Manual*

NSSP—Caltrans *Nonstandard Special Provisions*

PSP—Caltrans *Project Special Provisions*

SDC—Caltrans *Seismic Design Criteria*

SDSSB—Caltrans *Seismic Design Specifications for Steel Bridges*

SP—Caltrans *Standard Plans*

SS—Caltrans *Standard Specifications*

SSP—Caltrans *Standard Special Provisions*

STP—Caltrans *Structure Technical Policy*