A

AAC	Aluminum Arch Culvert
AADT	Annual Average Daily Traffic
ABC	Aggregate Base Course
Abut	Abutment
ACM	Asbestos Containing Materials
ADA	Americans with Disabilities Act
ADT	Average Daily Traffic
AE	Architect-Engineer, Architecture, Engineering
AEC	Architecture, Engineering and Construction
AGA	American Gas Association
Alt	Alternate
API	American Petroleum Institute
APL	Approved Products List
Approx	Approximate
APWA	American Public Works Association
AQCC	Air Quality Control Commission
ARE	Additional Requested Element (Design/Build Terminology)
AREMA	American Railway Engineering & Maintenance-of-Way Association
AHSTA	Ahead Station
ARA	Asphalt Rejuvenating Agent
ASBI	American Segmental Bridge Institute
ASD	Allowable Stress Design
ASOP	American Society of Photogrammetry
ASR	Alkali Silica Reactivity
ASSE	American Society of Sanitary Engineering, American Society of Safety Engineers
Asst	Assistant
ATB	Asphalt Treated Base
ATM	Active Traffic Management
AUTS	Actual Ultimate Tensile Strength

B

Bk to Bk	Back to Back
BEI	By Equal Increments
BM	Bench mark
BPF	Blows per Foot
BAFO	Best and Final Offer
Bbl	Barrels
BC	Bolt Circle
Beg	Begin
Bk	Back
Bldg	Building
BLM	Bureau of Land Management
Blvd	Boulevard
BMP	Best Management Practice
BNSF	Burlington Northern & Santa Fe Railroad
Bott	Bottom
BP	Bearing Pressure
Brg	Bearing
Bk Sta	Back Station
BT	Beginning of Transition
Btwn	Between

C

℄	Centerline
C&G	Curb and Gutter
CA	Concrete Arch
CAC	Concrete Arch Culvert
CAD	Computer Aided Design, Computer Aided Drafting
CADD	Computer Aided Design and Drafting
CBC	Concrete Box Culvert
CBG	Concrete Box Girder
CBGC	Concrete Box Girder Continuous
CBGCP	Concrete Box Girder Continuous Prestressed
CBGP	Concrete Box Girder Prestressed
CBGS	Concrete Box Girder Segmented
CBR	California Bearing Ratio
CCR	Code of Colorado Regulations, as amended
CDTPG	Concrete Double-Tee Prestressed Girder
CE	Construction Engineering
CF	Cubic Feet
CFS	Cubic Feet per Second
CG	Center of Gravity
CHP	Colorado Highway Patrol
CI	Cast Iron or Concrete on Rolled I-Beam
CIC	Concrete on Rolled I-Beam Continuous
CICK	Concrete on Rolled I-Beam Continuous & Composite
CICKP	Concrete on Rolled I-Beam Continuous & Composite Prestressed
CIK	Concrete on Rolled I-Beam Composite
CIKP	Concrete on Rolled I-Beam Composite Prestressed
CIP	Cast-in-Place or Cost in Place
CIR	Cold In-Place Recycling
Clr	Clear
cm	Centimeters
CM	Corrugated Metal
CMAQ	Congestion Mitigation Air Quality
CMP	Corrugated Metal Pipe
CMU	Concrete Masonry Unit
COC	Certificate of Compliance
Col	Column
Comp	Composite
Conc	Concrete
Conn	Connection
Const	Construction
Const Jt	Construction Joint
Cont	Continuous
Corr	Corrugated
CPE	Corrugated Polyethylene Pipe
CPG	Concrete Prestressed Girder (Precast)
CPGC	Concrete Prestressed Girder Continuous (Precast)
CPT	Corrugated Polyethylene Tubing
CR	County Road
CRF	Concrete Rigid Frame
CS	Curve to Spiral, Commercial Standard, Concrete Slab
CSC	Concrete Slab Continuous
CSG	Concrete Slab & Girder (Poured in Place)
CSGC	Concrete Slab & Girder Continuous (Poured in Place)
CSGCP	Concrete Slab & Girder Continuous Prestressed (Poured in Place)
CSGP	Concrete Slab & Girder Prestressed (Poured in Place)
Csk	Countersunk
CSL	Cross Hole Sonic Logging
CSP	Corrugated Steel Pipe or Concrete Slab Prestressed
CSPC	Concrete Slab Prestressed Continuous
CTB	Cement Treated Base
CTR	Certified Test Reports
Ctr	Center
CY	Cubic Yards
CZ	Clear Zone

D

D	Degree of Curvature, or Density
DB	Design Build
DAS	Deformed Anchor Stud
dB	decibels
DBA	Deformed Bar Anchor
Dbl	Double

GENERAL NOTES

1. ABBREVIATIONS SHOULD BE UPPER AND LOWER CASE LETTERS EXCEPT WHERE ALL UPPER CASE LETTERS ARE REQUIRED.
   Const Jt = Construction Joint
2. ACRONYMS SHALL BE ALL UPPER CASE LETTERS.
   CBC = Concrete Box Culvert
3. ABBREVIATIONS SHALL BE USED ONLY WHEN THE WORDS CANNOT BE COMPLETELY SPELLED OUT DUE TO MULTIPLE FACTORS, SUCH AS A LACK OF SPACE ON THE SHEET.

Deg, °F, °C,	Degrees (Thermal) - Degrees Fahrenheit, Degrees Celsius
Dgn	Design or MicroStation Drawing
DH	Design Height or Avg height for qty calculations
DHV	Design Hour Volume
DHW	Design High Water
DI	Ductile Iron
Dia	Diameter
DNR	Department of Natural Resources
DOW	Division of Wildlife (Colorado)
DRCOG	Denver Regional Council of Governments
DTD	Division of Transportation Development (CDOT)
DTM	Digital Terrain Model
Dwg	AutoCAD Drawing

E

e.g.	Exempli Gratia (For Example)
EA	Environmental Assessment
EATB	Emulsified Asphalt Treated Base
EB	Eastbound
EF	Each Face
Elev	Elevation
Engr	Engineer
EPA	Environmental Protection Agency
EPDM	Ethylene Propylene Diene Monomer-class rubber
Eq	Equal
ESAL	Equivalent Single Axle Load
Est	Estimate
ET	Ending of Transition
EVT	Event Point (InRoads Terminology)
EW	Each Way
E	Expansion Bearing
Exc	Excavation
Exp Jt	Expansion Joint
Ext	Exterior

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F

F	Fixed Bearing
FL	Flow Line
FAA	Federal Aviation Administration
FASB	Foamed Asphalt Stabilized Base
FCM	Fracture Critical Member
FDR	Full Depth Reclamation
Fed	Federal
FEMA	Federal Emergency Management Agency
FES	Flared End Section
FF	Far Face or Front Face
Fig	Figure
Fin	Finished
Fl	Floor
Flg	Flange
FM	Factory Mutual
FMM	Field Materials Manual
FPM	Feet Per Minute
FPS	Feet Per Second
FRA	Federal Railroad Administration
Freq	Frequency
FRP	Fiber Reinforced Polymer
FS	Planned Finish Surface
Ft	Feet
Ft Kip	Foot Kips
Ft Lb	Foot Pounds
FTA	Federal Transit Administration
Ftg	Footing
FWD	Falling Weight Deflectometer

G

Ga	Gage or Gauge
Gal	Gallons
Galv	Galvanized
Gd	Guided expansion bearing
Gir, G	Girder
GIS	Geographical Information System
GL	Girt Line
GPM	Gallons Per Minute
GPS	Global Positioning System
GRI	Geosynthetic Research Institute
GRS	Geosynthetic Reinforced Soil
GSI	Geosynthetic Institute

H

HAS	Headed Anchor Stud
HAZMAT	Hazardous Materials
HC	Horizontal Clearance
HCL	Horizontal Control Line
HCM	Highway Capacity Manual
Hd	Head
HDPE	High Density Polyethylene
HDPP	High Density Polypropylene
Hex Hd	Hexagonal Head
HID	High Intensity Discharge (Lamps)
HIR	Hot In-Place Recycling
HLMR	Highload Multi-Rotational
HMA	Hot Mix Asphalt
Horiz	Horizontal
HOV	High-Occupancy Vehicle
HP	Horsepower
HPC	High Performance Concrete
HS	High Strength
Ht	Height
HW	High Water
Hwy	Highway
Hyd	Hydraulic

I

ICEA	Insulated Cable Engineers Association
ID	Inside Diameter
IMP	Incident Management Plan
In. Kips	Inch Kips
In. Lb.	Inch Pounds
In.	Inches
Incl	Included
Int	Interior
Inv	Invert
IRI	International Roughness Index
ISO	International Organization for Standards
ITAA	Information Technology Association of America
ITS	Intelligent Transportation System
IVHS	Intelligent Vehicle Highway System

J

JB	Junction Box
JPCP	Jointed Plain Concrete Pavement
Jt	Joint

K

Kip	Thousand Pounds
KSF	kips per square foot
KSI	Kips per square inch
KW	Kilowatt

L

L	Length, Angle (steel)
Lb	Pounds
Lb/Ft	pound per foot
Lb/SY	Pounds per square yard
Lb-Ft	pound foot
LCCA	Life Cycle Cost Analysis
LED	Light Emitting Diode
LEED	Leadership in Energy and Environmental Design
LF	Linear Feet
LFD	Load Factor Design
LL	Liquid Limit
LLDPE	Linear Low-Density Polyethylene
LRFD	Load and Resistance Factor Design
LS	Lump Sum or Length of Spiral
Lt	Left
LTB	Lime Treated Base
LTDS	Required Long Term Design Strength
Lum	Luminaire

M

m	Meters
MA	Mobile Attenuator
Maint	Maintenance
MARV	Minimum Average Roll Value
Matl	Material
Max	Maximum
MBTA	Migratory Bird Treaty Act
MFBM	Thousand Foot Board Measure
Mfg	Manufactured or Manufacturer
MHT	Method of Handling Traffic
Mi	Mile
Min	Minimum
Misc	Miscellaneous
mm	Millimeters
MP	Milepost
MPH	Miles Per Hour
M_R	Resilient Modulus
MR	Modulus of Rupture

N

NAD	North American Datum
NAVD	North American Vertical Datum
NB	Northbound, Total Number of Blocks
N_{DES}	Recommended SuperPave™ Gyratory Design Revolution
NDT	Nondestructive Testing
NECA	National Electrical Contractors Association
NEPA	National Environmental Policy Act
NESC	National Electric Safety Code
NF	Near Face
NFPA	National Fire Protection Association
NGS	National Geodetic Survey
NGVD	National Geodetic Vertical Datum of 1929
NHS	National Highway System
NICET	National Institute for Certification of Engineering Technologies
NIP	Nail in Place
NMAS	Nominal Maximum Aggregate Size
No	Number
Nom	Nominal
NPDES	National Pollutant Discharge Elimination System
NPT	National Pipe Thread
NS	Near Side
NTCIP	National Transportation Communications for ITS Protocol
NTP	Notice to Proceed
NTS	Not to Scale

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O

OC	On Center
OD	Outside Diameter
OGFC	Open Grade Friction Course
OJT	On-the-Job Trainee or On-the-Job Training
Opp Hand	Opposite Hand
oz	Ounces

P

PC	Point of Curve
PCA	Portland Cement Association
PCBC	Concrete Box Culvert Precast
PCC	Point of Compound Curve
PCCP	Portland Cement Concrete Pavement
PDA	Pile Driving Analyzer
PE	Preliminary Engineering, or Professional Engineer or Permanent Easement
Ped	Pedestrian
PG	Profile Grade or Performance Grade
PGL	Profile Grade Line
PI	Point of Intersection
PL, Pl	Plate
PLS	Professional Land Surveyor
PM	Project Manager
PMBB	Plant Mix Bituminous Base
PMBP	Plant Mix Bituminous Pavement
PMSC	Plant Mix Seal Coat
POC	Point on Curve
POSS	Point of Slope Selection
POT	Point on Tangent
PPE	Personal Protective Equipment
PRC	Point of Reverse Curve
Proj	Project or Projection
psf	Pounds per square foot
psi	Pounds per square inch
PT	Point of Tangent
PTFE	Polytetrafluoroethylene
PTI	Post-Tensioning Institute
PUC	Public Utilities Commission
PVC	Poly Vinyl Chloride (pipe), Point of Vertical Curve
PVI	Point of Vertical Intersection
Pvmt	Pavement
PVT	Point of Vertical Tangency

Q

Q	Peak Discharge or Flow Volume
QA	Quality Assurance
QC	Quality Control
QMP	Quality Management Plan
QML	Qualified Manufacturers List

R

R	Radius
RA	Rubble Arch
RAC	Rubble Arch Culvert
rad	radians
RAP	Reclaimed Asphalt Pavement
RAS	Reclaimed Asphalt Shingles
RC	Reverse Crown
RCC	Roller Compacted Concrete
RCP	Reinforced Concrete Pipe
RCPC	Reinforced Concrete Pipe Culvert
Rdwy	Roadway
RE	Resident Engineer or Railroad Easement
Ref	Reference
Reinf	Reinforcing
Rem	Remove or Removal
Repl	Replace
Req	Required
Rev	Revised, Revision
RG	Riveted Plate Girder
RGC	Riveted Plate Girder Continuous
RL	Reinforcement Length
RME	Region Materials Engineer
rpm	Revolutions Per Minute
RSC	Rigid Steel Conduit
RSS	Reinforced Soil Slope
Rt	Right
RTD	Region Transportation Director or Regional Transportation District
RWIS	Road Weather Information System

S

SA	Steel Arch
SAC	Steel Arch Culvert
San	Sanitary
SB	Southbound
SBA	Small Business Administration
SBG	Steel Box Girder
SBGC	Steel Box Girder Continuous
SC	Spiral to Curve
Sch	Schedule
SCS	Spiral Curve Spiral
SDG	Steel Deck Girder
SDGC	Steel Deck Girder with Floor Beam System
SDGCK	Steel Deck Girder Continuous & Composite
SDI	Steel Decks Institute
SDT	Steel Deck Truss
Sdwk	Sidewalk
Sect	Section
SF	Square Feet
SH	State Highway
Shldr	Shoulder
SHPO	State Historic Preservation Office
SHRP	Strategic Highway Research Program
Sht	Sheet
SIGN	Overhead Sign
SIGNB	Overhead Sign-Butterfly
SIGNC	Overhead Sign-Cantilever
SIGND	Overhead Sign + Cantilever
Sim	Similar
SIP	Stay in Place
SJI	Steel Joists Institute
SLT	Steel Low Truss
SMA	Stone Matrix Asphalt
SN	Structural Number
Spa	Spaces or Spaced
Specs	Specifications
SpG	Specific Gravity
Spl	Splice
Sq In	Square Inches
Sq Mi	Square Miles
Sq	Square
SRW	Segmental Retaining Walls
SSE	Steel Stringer-Earth Filled
SSM	Steel Stringer-Metal Plank Deck
SSMC	Steel Stringer-Metal Plank Deck Continuous
SSPC	Society for Protective Coatings
SSS	Steel Stringer-Timber Deck
SSSC	Steel Stringer-Timber Deck Continuous
ST	Spiral to Tangent
St	Straight or Street
Sta	Station
Std	Standard
STG	Steel Thru Girder
Str	Structure, Structural
STT	Steel Thru Truss
SUSP	Suspension Bridge
SY	Square Yards
Sym	Symmetrical

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T

T&B	Top and Bottom
T&E	Threatened & Endangered Species
T	Tons
TAS	Threaded Anchor Stud
TBC	Timber Box Culvert
TC	Tangent to Curve
TCD	Traffic Control Devices
TCP	Traffic Control Plan
TD	Timber Stringer (Untreated) Concrete Deck
TDH	Total Dynamic Head
Temp	Temporary or Temperature
Thd	Thread
THHN	Thermoplastic High Heat-resistant Nylon coated (Insulation designation for wire)
THWN	Thermoplastic High Water-resistant Nylon coated (Insulation designation for wire)
TIG	Tungsten Inert Gas (Welding)
TLA	Timber Laminated Arch (Gluelam)
TLS	Timber Laminated Stringer (Gluelam)
TLT	Timber Low Truss
TM	Timber Stringer (Untreated) Metal Deck
TMP	Transportation Management Plan
Tot	Total
TPI	Threads per Inch
TS	Tangent to Spiral, Timber Stringer (Untreated) Timber Deck
TSLAB	Timber Slab
TTC	Timber Culvert
TTD	Timber Stringer-Concrete Deck
TTM	Timber Stringer- Metal Deck
TTS	Timber Stringer- Timber Deck
TTT	Timber Thru Truss
TUNC	Tunnel-Concrete Lined
TUNR	Tunnel-Thru Rock-No Lining
Typ	Typical

U

UG	Underground
UNC	Uniform National Coarse (screw thread)
UNCC	Utility Notification Center of Colorado
UNF	Uniform National Fine (screw thread)
UNO	Unless Noted Otherwise
UPRR	Union Pacific Railroad
UPS	Uninterruptible Power Supply
USACE	United States Army Corp of Engineers
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USFWS	United States Fish and Wildlife Service
USGS	US Geological Survey
Util	Utility or Utilities
UV	Ultraviolet

V

VC	Vertical Curve
VCP	Vitrified Clay Pipe
Veh	Vehicle
Vert	Vertical
VFA	Voids Filled With Asphalt
VMA	Voids in the Mineral Aggregate
VMS	Variable Message Sign
Vol	Volume
VPC	Vertical Point of Curvature
VPI	Vertical Point of Intersection
VPT	Vertical Point of Tangency

W

W/C	Water-Cement Ratio
WALL	Retaining Wall
WB	Westbound
WBS	Work Breakdown Structure
WF	Wide Flange (Steel section)
WG	Welded Girder
WGC	Welded Girder Continuous
WGCK	Welded Girder Continuous & Composite
WGCKP	Welded Girder Continuous, Composite Prestressed
WGK	Welded Girder Composite
WGKP	Welded Girder Composite Prestressed
WIMS	Weigh-In-Motion Station
WP	Work Point
WQCD	Water Quality Control Division (Colorado Department of Public Health and Environment)
WRI	Wire Reinforcement Institute
WS	Water Surface
WSN	Weighted Structural Number
Wt	Weight
WWF	Welded Wire Fabric, typically referred to very light gauge wire for crack control
WWR	Welded Wire Reinforcement

Y

Yd	Yard

SYMBOLS

400	#4 REBAR BENDING SHAPE
500	#5 REBAR BENDING SHAPE
600	#6 REBAR BENDING SHAPE
@	at
&	and
ϕ ⌀	Diameter
°, ', ''	Degrees, Minutes, Seconds
', ''	Feet, inches
#	Number or Pound
Ⓔ	Epoxy Coated Rebar
Ⓝ	Non-Epoxy Coated Rebar
XX	Girder Label
°F	Fahrenheit
°C	Celsius
≈	Approximate
#	Interstate Highway
#	US Highway
#	State Highway

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