&	And
@	At
Δ	Delta or Deflection Angle
=	Equals
	Fish
||	Parallel
%	Percent
⊥	Perpendicular
Ø	Phase or Diameter
	Begin L.A. R/W
	End L.A. R/W
A.A.D.T.	Annual Average Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
Ab.	Abrupt
Abut.	Abutment
A.C.	Aluminum Cap/Asphalt Cement
A.C.L.	Access Control Line
Add. Exc.	Additional Excavation
Adj.	Adjusted
Aggr.	Aggregate
Ah.	Ahead
Alum.	Aluminum
A.P.	Anchor Plate
App. Exist. R/W	Apparent Existing Right-of-Way
App. P. L.	Apparent Property Line
Appl.	Application
Appr.	Approach
Approx.	Approximate
Art.	Article
Asph.	Asphalt
ASTM	American Society for Testing Materials
Ave.	Avenue
Avg.	Average
AWG	America Wire Gauge
Az.	Azimuth
B.	Barn
B.E.	Bridge End
Beg.	Begin
B.I.P.	Boiler Iron Pipe
Bit.	Bituminous or Bitumen
Bk.	Back or Bank
℄	Baseline
Bldg.	Building
Blk	Block
Blktp.	Blacktop
Blvd.	Boulevard
Bm.	Beam
B.M.	Bench Mark
Bndry.	Boundary
Bot.	Bottom
Br.	Bridge
Brg.	Bearing
Brk.	Brick
Br. S.	Bridge Seat
B.S.	Backsight
B. Spk.	Boat Spike
B.S.T.	Bituminous Surface Treatment
Bur.	Buried
Calc.	Calculated
C.A.P.	Corrugated Aluminum Pipe
C.A.T.	Crash Cushion/Attenuating Terminal Guard Rail End Treatment
Cb.	Curb
C.B.	Catch Basin
Cb.In.	Curb Inlet
Cb.L.	Curb Line
C.B.W.	Concrete Block Wall
C.C.	Corn Crib
C-C	Center to Center
Cdtn.	Condition
Cem.	Cemetery
C.G.M.P.	Corrugated Galvanized Metal Pipe
Ch.	Channel or Chain
Chan. Chg.	Channel Change
Chd.	Chord
C.I.	Cast Iron
C.I.P.	Cast Iron Pipe
Cir.	Circle
℄	Centerline
Cl.	Class or Clearance
C.L.	Corporation or City Limits
C.L.T.F.	Chain Link Type Fence
C.M.B.	Concrete Median Barrier
C.M.P.	Corrugated Metal Pipe
Co.	County or Company
C.O.	Clean Out
Col.	Column
Comp.	Compacted or Composite
Conc.	Concrete
Conc. P.	Concrete Pipe
Conn.	Connection
Const.	Construction or Construct
Cont.	Continuous
Cor.	Corner
Corr.	Corrugated
Cov.	Cover
C.P.	Catch Point
Cr.	Crushed or Creek
Crs.	Course
C. Stn.	Crushed Stone
Ct.	Court
Ctr.	Center
Cu.	Cubic
Cul.	Culvert
C.Z.	Clear Zone or Construction Zone
D	Distribution of Traffic
Dbl.	Double
Defl.	Deflection
Desc.	Description
Dest.	Destroyed
Det.	Detour or Detail
Detc.	Detector
D.H.	Drill Hole
D.H.V.	Design Hourly Volume

Dia.	Diameter
Diaph.	Diaphragm
Dim.	Dimension
Dist.	Distance or District
Dn.	Down
Dp.	Deep
Dr.	Drain or Drive
Dt.	Ditch
Drwg.	Drawing
E	East
Ea.	Each
E.B.	Eastbound
E.B. L.	Eastbound Lane
E.F.	Each Face
E.G.	Edge of Gutter
Elec.	Electric
El.	Elevation
E.M.	Edge of Metal (surface)
Emb.	Embankment
Eq.	Equation
Esmt.	Easement
E.T.L.	Edge of Traveled Lane
E.T.W.	Edge of Traveled Way
Exc.	Excavation
Exist.	Existing
Exp.	Expansion
Ext.	Extension
Fa.	Face
F.A.	Federal Aid
F.B.C.P.C.S.	Fully Bituminous Coated Perforated Corrugated Steel
F.Div.	Field Division
Fdn.	Foundation
Fe.	Fence
Fert.	Fertilizer
F-F	Face to Face
F.F.	Front Face
F.F.T.F.	Farm Field Type Fence
F. Hyd.	Fire Hydrant
Fig.	Figure
Fin.	Finish
Fix.	Fixed
Fl.	Flush
F.L.	Flow Line
Flg.	Flange
F.O.	Fiber Optic
F.P.	Fence Post
F.R.	Frontage Road
F.S.	Far Side or Foot of Slope
F.T.	Farm Tile
Ftg.	Footing
Fut.	Future
Fwy.	Freeway
G.	Garage
g	Gram
Galv.	Galvanized
G.B.A.	Gravel Barrel Array Impact Attenuator
G.B.E.S._ _	Grated Box End Section (Pipes)
Gdr.	Girder
Geod.	Geodetic
G.L.	Gas Line
G.P.	Guy Pole
G.P.S.	Global Positioning System
G.R.	Guard Rail
Grav.	Gravel
G.R.E.A.T. __	GREAT Unit (Bays)
G.R.E.T.	Guard Rail End Treatment
Grnd.	Ground
Gr.Sep.	Grade Separation
G.S.	Gravel Surfacing
G.S.P.	Galvanized Steel Pipe
Gut.	Gutter
G.V.	Gas Valve
ha	Hectare
H.H.	Hand Hole
Hdw.	Headwall
H.I.	Height of Instrument
H.	House
Horiz.	Horizontal
H.P.S.V.	High Pressure Sodium Vapor
H.S.	High Strength
Ht.	Height
H.W.	High Water
H.W.L.	High Water Line
Hwy.	Highway
I	Interstate
I.C.	Incidental Construction
I.D.	Inside Diameter
I.F.	Inside Face
IMSA	International Municipal Signal Association
In to In	Inside to Inside
Inc.	Incorporated
Incl.	Included
Inlt.	Inlet
Instr.	Instrument
Inters.	Intersection
Intch.	Interchange
Inv.	Invert
I.P.	Iron Pipe
I.P.B.	Iron Pipe Buried Below Plow Depth
I.P.F.	Iron Pin Flush
I.P.L.	Iron Pin Lightly Buried
I.P.N.F.	Iron Pin Not Found
Jct.	Junction
Jt.	Joint
kg	Kilogram
km	Kilometer
L	Length of Curve, Liter or Loop
L.A.	Limited Access
L.A.R/W.	Limited Access Right of Way
L.C.	Long Chord
L_C	Length of Circular Curve
L.D.	Loop Detector
Leng.	Length or Lengthen
Ln.	Lane

LRFD	Load Resistance Factor Design
L.S.	Land Surveyor
L.S.R.	Local Service Road
Lt.	Left
Lt. P.	Light Pole
L.W.	Low Water
m	Meter
mm	Millimeter
m^2	Square Meter
m^3	Cubic Meter
mm^2	Square Millimeter
Mac.	Macadam
Matl.	Material
Max.	Maximum
Mbox.	Mailbox
Mdwl.	Mudwall
Meas.	Measured
Med.	Median
Mh.	Manhole
Min.	Minimum, Mineral or Minute
Misc.	Miscellaneous
Mkr.	Marker
ML.	Mainline
Mncpl.	Municipal
M.O.	Mid Ordinate
Mom.	Moment
Mon.	Monument
M.P.C.	Mid-Point of Curve
N	North
N.B.	Northbound
N.B.L.	Northbound Lane
N.C.	Normal Crown
N.E.	Northeast
Neg.	Negative
NEMA	National Electrical Manufacturers Association
N.E.P.L.	No Evidence of Property Line
N.F.	Near Face
N.G.	Natural Gas
N.G.S.	National Geodetic Survey
Nl.	Nail
Nly.	Northerly
No. or #	Number
N.S.	Near Side
N.W.	Northwest
O.C.	On Centers or Overhead Crossing
O.D.	Outside Diameter
O.F.	Outside Face
Off.	Offset
Oh.	Overhang or Overhead
O-O	Out to Out
O.P.O.C.	Offset Point on Curve
O.P.O.S.T.	Offset Point of Semi-Tangent
O.P.O.T.	Offset Point on Tangent
Out.	Outlet
P	Power Cable or Pipe
P. or Pg.	Page
P.B.	Pull Box
P.C.	Point of Curve (Beginning of Curve)
P.C.C.	Point of Compound Curve or Portland Cement Concrete
Ped.	Pedestrian
Pen.	Penetration
Perf.	Perforated
P.G.	Profile Grade
P.I.	Point of Intersection
Pl.	Place or Plate
P.L.	Property Line
Plas.	Plastic
P.M.P.	Perforated Metal Pipe
P.O.C.	Point on Curve
Pos.	Positive
P.O.S.T.	Point on Semi-Tangent
P.O.T.	Point on Tangent
P.O.V.C.	Point on Vertical Curve
Pp.	Pages
P.P.B.	Pedestrian Push Button
P.R.C.	Point of Reverse Curve
Prest.	Prestressed
Priv.	Private
Proc.	Processing
Proj.	Project or Projected
Prot.	Protect, Protector or Protection
P.S.D.	Paved Side Ditch
Pt.	Point
P.T.	Point of Tangent (End of Curve)
Pub.	Public
Pv.C.	Polyvinyl Chloride
P.V.C.	Point of Vertical Curve
P.V.I.	Point of Vertical Intersection
Pvm't.	Pavement
P.V.T.	Point of Vertical Tangent
Pwp.	Powerpole
Pwr.	Power (Lines)
Q	Peak Discharge (Water)
R.	Range or River
Rad. or R.	Radius
R.C.	Rapid Curing, Reinforced Concrete or Remove Crown
R.C.P.	Reinforced Concrete Pipe
Rd.	Road
Rdl.	Radial
Rd. N.	Road Nail
Rd NF.	Road Nail Flush
Rd NL.	Road Nail Lightly Buried
Rdwy.	Roadway
Rec.	Record or Recommended
Ref.	Reference
Reinf.	Reinforcement, Reinforcing, Reinforced
Req'd.	Required
Ret.	Retaining
Rev.	Revised
R.M.	Reference Monument
R.P.	Reference Point

R.P.M.	Raised Pavement Marker
R.R.	Railroad
R.R. Spk.	Railroad Spike
Rt.	Right or Route
Rte.	Route
R/W	Right-of-Way
R/W Mkr.	Right-of-Way Marker
Rwy.	Railway
S	South
S.	Shed
San.	Sanitary Sewer
S.B.	Southbound
S.B.L.	Southbound Lane
Sched.	Schedule
Sdwk.	Sidewalk
S.E.	Southeast
Sec.	Section or Second
Sec. Line	Section Line
Ser. Rd.	Service Road
S.G.	Subgrade
Sht.	Sheet
Shldr.	Shoulder
Sig.	Signal
S.L.D.	Sea Level Datum
Sly.	Southerly
Spa.	Spaces, Spacing
Spec. Prov.	Special Provision
Spk.	Spike
Spl.	Special or Splice
Sq.	Square
S.R.	State Road or State Route
S.S.	Stainless Steel
St.	Street
Sta.	Station
Std.	Standard
Std. Spec.	Standard Specifications
Stiff.	Stiffener
Stk.	Staked or Stake
Stl.	Steel
Str.	Structure, Structural
Subd.	Subdivision
Subgr.	Subgrade
Supstr.	Superstructure
Surf.	Surface or Surfacing
Surv.	Survey
S.W.	Southwest or Sidewalk
Sym.	Symmetrical
T.	Tangent Length or Township (as T-6-N)
t	Metric Ton
Tan.	Tangent
T.B.	Test Boring
T.B.M.	Temporary Bench Mark
Tbr.	Timber
Tel.	Telephone
Tel.C.	Telephone Cable
Tgp.	Telegraph Pole
Tfp.	Telephone Pole
Temp.	Temperature or Temporary
T.O.	Top of Opening
T.O.B.	Top of Bank
T.O.P.	Top of Pipe
T.O.S.	Top of Slope
Topog.	Topographic
T.P.	Turning Point
Trans.	Transmission Line or Transition
Trav.	Traverse
T.T.	Transmission Tower
Twp.	Township (as Center Township)
T.W.L.T.L.	Two-Way Left-Turn Lane
Typ.	Typical
U.	Unit
Ug.	Underground
Uncl.	Unclassified
U'pass.	Underpass
U.S.C. & G.S.	U.S. Coast & Geodetic Survey
U.S.Co.E.	U.S. Corps of Engineers
U.S.F.S.	U.S. Forest Service
U.S.G.S.	U.S. Geological Survey
U.S.P.L.S.	U.S. Public Land Survey
V	Design Speed or Velocity
V.C.	Vertical Curve
Veh.	Vehicle, Vehicular
Vert.	Vertical
W	West, Wide Flange Beam or Water
W/	With
W.B.	Westbound
W.B.L.	Westbound Lane
Wd.	Wood
W.L.	Water Line
Wly.	Westerly
W.P.	Working Point
Wt.	Weight
W.T.	Water Table
W.V.	Water Valve
W.W.	Wing Wall or Woven Wire
Xing.	Crossing
Xsec.	Cross Section

PLAN ABBREVIATIONS

Figure 14-3B