

A Area or Amperes  
AAA American Automobile Association  
AADT Annual Average Daily Traffic  
AASHTO American Association Of State Highway Officials  
AASHTO American Association Of State Highway And Transportation Officials  
ABC Asphalt Base Course  
Abd. Abandoned  
ABS Acrylonitrile-Butadiene-Styrene Pipe  
AC, Ac. Acre  
AC or Asph. Conc. Asphaltic Concrete  
Accel. Acceleration  
ACI American Concrete Institute  
Act. Actuated  
ADA The Americans With Disabilities Act  
Adh. Adhesive  
Adj. Adjust  
ADT Average Daily Traffic  
AFAD Automatted Flagger Assistance Device  
Agg. Aggregate  
Ah. Ahead  
AISC American Institute Of Steel Construction  
Alt. Alternate  
Al. Aluminum  
AM 12:00 Midnight Until 11:59 Noon  
ANSI American National Standards Institute  
ADS Apparent Opening Size  
Appl.. Applied, Application  
Apprh. Approach  
Approx. Approximate  
ARTBA American Road & Transportation Builders Association  
Artf. Artificial  
Asph. Asphalt  
Assem. Assembly  
Assn. Association  
Assoc. Associate, Association  
ASTM American Society For Testing And Materials  
ATPB Asphalt Treated Permeable Base  
Attn. Attention  
Attnuatr. Attenuator  
Aux. or Auxil. Auxiliary  
Ave. Avenue  
AWG American Wire Gauge  
AWS American Welding Society  
Az Azimuth

B to B Back to Back  
Basc. Bascule  
Bd. or Bnd. Bond or Bonded  
BC Bottle Cap or Bolt Circle  
B/C, B.C. Back Of Curb  
BCCMP Bituminous Coated Corrugated Metal Pipe Culvert  
BCPA Bituminous Coated Pipe Arch Culvert  
BCPCMP Bituminous Coated And Paved Corrugated Metal Pipe Culvert  
BCPPA Bituminous Coated And Paved Pipe Arch Culvert  
BCT Breakaway Cable Terminal  
BCWE Base Clearance Water Elevation  
BE Buried Electric  
Beg. Begin  
Bit. Bituminous  
Bk. Back  
BL, BLC, or B̄ Base Line, Base Line Control  
Bldg. Building  
Blkhd. Bulkhead  
BLDN Begin Length Of Need  
Blvd. Boulevard  
BM Bench Mark  
Bndry. Boundary  
Bdr. Border  
Bot. Bottom  
BO Basin Outlet  
BOS Beginning Of Survey  
BP Borrow Pit  
Bq. Becquerel

Br. Bridge  
Brg. Bearing  
Brkwy. Breakaway  
BT Buried Telephone Cable or Duct  
Btfly. Butterfly  
BW Barbed Wire, Bottom Width or Both Ways  
C Cantilever Length, Cut, Colorless, Coulomb or Cycle Length  
°C Degree Celsius  
C & G Curb And Gutter  
CA Coarse Aggregate  
Cap. Capacity  
CAP Corrugated Aluminum Pipe  
Caps. Capital Letters  
CASP Corrugated Aluminized Steel Pipe  
CATV Cable Television  
CB Catch Basin  
CBC Concrete Box Culvert  
CBS Concrete Box Structure  
CC, C/C, C to C, or C.C. Center to Center, Crash Cushion  
CCEW Center to Center Each Way  
CCTV Closed-Circuit Television  
CD Cross Drain, Cross Direction (Geotextiles)  
cd Candela  
Cem. Cement or Cemetery  
Cem'd. Cemented  
CFS Cubic Feet Per Second  
Ch. Channel  
Chchg. Channel Change  
Chg. Changeable  
CI Cast Iron  
CIP Cast Iron Pipe  
CIPL, C.I.P., C-I-P Cast In Place  
circ. Circumference  
Ckt. Circuit  
Cl. or Clear Clearance  
CL, C/L or C̄ Center Line  
CM Concrete Monument  
CMB Concrete Median Barrier  
CMP Corrugated Metal Pipe  
CMPA Corrugated Metal Pipe Arch  
Co. County or Company  
Col. Column  
Com. Commercial or Common  
CDMM Committee or By Committee  
Comp. Composite  
Con. Connect or Connection  
Conc. Concrete  
Const. Construct or Construction  
Contrl. Controller  
Cont. Continuation  
Contr. Contractor  
Coord. Coordinate  
Cor. Corner  
Corr. Corrugated  
CP Concrete Pipe  
CPE Corrugated Polyethylene Pipe  
CPT Cone Penetration Test  
CR Control Radius or County Road  
CRA Clear Recovery Area  
Crs. or Cse. Course  
CS Curve To Spiral  
CSP Corrugated Steel Pipe  
CT Clear Trunk  
CTPB Cement Treated Permeable Base  
Ctivr. Cantilever  
Ctr., Ctrs. Center  
CU or Cu Copper  
Culv. Culvert  
Cwt. Hundredweight  
CY, Cu. Yd., CY, or C.Y. Cubic Yard  
Cyl. Cylindrical

D Degree Of Curvature, Depth, Density, Distance, Diameter or Directional Distribution  
DA Drainage Area or Deflection Angle  
DBH Diameter At Breast Height  
DBI Ditch Bottom Inlet  
Dbl. Double  
DCS Degree Of Curvature (Spiral)  
DD Dry Density  
DDHV Directional Design Hour Traffic  
Decel. Deceleration  
Deg. Degree  
Delin. Delineators  
Demobl. Demobilization  
Dept. Department  
Det. Detour, Detection, Detectable  
DFE Design Flood Elevation  
DGN or Dgn. Design  
DHV Design Hourly Volume  
DHW Design High Water  
DT Ditch  
DI Drop Inlet  
Dia. or D Diameter  
Dim. Dimension  
Disp. Disposal  
Dist. Distance  
DLS District Location Surveyor  
DMM Domestic Mail Manual  
DOT Department Of Transportation  
DPI or D.P.I. Ditch Point Intersection  
Dr. or DR. Drain, Drive or Design Review  
DR Design Review  
Driv. Driven  
Drwy. Driveway  
DS Design Speed  
DSL Design Service Life  
Dwg. Drawing  
E East or External Distance  
e Rate Of Superelevation  
E to E End to End  
EA or Ea. Each  
EB Eastbound  
EIA Electronic Industries Alliance  
El. or Elev. Elevation  
Elast. Elastomeric  
Elec. Electric  
Ellip. Elliptical  
Embk. Embankment  
Emul. Emulsified  
Encl. Enclosure  
Engr. Engineer  
EOS End Of Survey or Equivalent Opening Size  
E.P. or EOP Edge Of Pavement  
EPDM Ethylene Propylene Diene Monomer  
Eq. Equation or Equal  
Equip. Equipment  
Esmt. Easement  
Est. or Estm. Estimate  
Est. Establish or Established  
Etc. or etc. Et Cetera (And So Forth)  
ETP Electronic Tough Pitch  
EW Endwall  
Ex. Except, Example  
Exc. or Excav. Excavation  
Exist. Existing  
Exp. Expansion  
Ext. Extension  
Exwy. Expressway

The abbreviations listed are the standard for contract plans production. This list is not all inclusive. Other Department accepted abbreviations may be used when deemed more appropriate. Where special abbreviations are used a descriptive tabulation may be necessary in the plans.



2010 FDOT Design Standards

**STANDARD ABBREVIATIONS**

|               |           |
|---------------|-----------|
| Last Revision | Sheet No. |
| 07/01/09      | 1 of 3    |
| Index No.     |           |
| 001           |           |

|                       |  |                   |  |                   |   |                        |  |
|-----------------------|--|-------------------|--|-------------------|---|------------------------|--|
| F                     | Fill, Farad                                | HW or H.W.        | High Water or Hot Water                        | M                 | Mass, Middle Ordinate Length or Mega                      | N m                    | Newton Meter   |
| F or Final            | Final Quantity                             | Hwy.              | Highway  | m                 | Meter or Milli  | No.                    | Number   |
| F & I                 | Furnish & Install                          | Hyd.              | Hydraulic                                      | m <sup>2</sup>    | Square Meter or Meter Square                              | Nom.                   | Nominal  |
| F to F                | Face to Face                               | Hz                | Hertz  | m <sup>3</sup>    | Cubic Meter or Meter Cubed                                | Norm.                  | Normal   |
| FA                    | Federal Aid or Fine Aggregate              |                   |  | m <sup>3</sup> /m | Cubic Meter Per Meter                                     | N.P.                   | Non Plastic  |
| FAC                   | Florida Administrative Code                | I                 | External Angle (Delta), Interstate             | m/s               | Meters Per Second   | NPS                    | Nominal Pipe Size                                    |
| FAP                   | Federal Aid Project                        | Intchg. or Ichg.  | Interchange                                    | Mach.             | Machine   | NPT                    | National Pipe Thread                                 |
| FC                    | Friction Course                            | IES               | Illuminating Engineering Society               | Maint.            | Maintenance   | NRCP                   | Non-Reinforced Concrete Pipe                         |
| FD                    | French Drain                               | ID, I.D.          | Inside Diameter or Identification              | Matl.             | Material  | NS                     | Non Stress, Not Suitable or Near Side                |
| Fdn.                  | Foundation                                 | IMC               | Intermediate Metal Conduit                     | Max.              | Maximum   | NT, N&T                | Non Traffic, Nail & Tin                              |
| FDDT                  | Florida Department Of Transportation       | In.               | Inch or Inches                                 | MB                | Median Barrier  | NTS                    | Not To Scale   |
| FE                    | Floor Elevation                            | Inc.              | Incorporated or Including                      | MBM               | Thousand (Feet) Board Measure                             | NW                     | Northwest  |
| Fed.                  | Federal                                    | Incl. or Inc.     | Included                                       | MD                | Machine Direction (Geotextiles)                           |                        |  |
| Fert.                 | Fertilizer                                 | Ind.              | Industry or Industrial                         | Med.              | Median  | Opass                  | Overpass   |
| FES                   | Flared End Section                         | INV. or Inv.      | Invert   | Mega              | One Million   | Q to Q, o to o or O.D. | Out to Out   |
| FETS                  | Flared End Terminal Section                | IP                | Iron Pipe                                      | Memb.             | Member  | QA                     | Overall  |
| FH                    | Fire Hydrant                               | Install.          | Installed                                      | MES               | Mitered End Section                                       | Q.B.G.                 | Optional Base Group                                  |
| FHWA                  | Federal Highway Administration             | Isect.            | Intersection                                   | Mess.             | Message   | QC or Q.C.             | On Center  |
| Fig.                  | Figure                                     | Isl.              | Island   | Mfg.              | Manufactured or Manufacturer                              | OD or O.D.             | Outside Diameter                                     |
| Fin.                  | Finish                                     | IR                | Iron Rod                                       | MG                | 1000 Gallons  | OE                     | Overhead Electric                                    |
| F.L., FL or $\bar{F}$ | Flow Line                                  | ITE               | Institute Of Transportation Engineers          | MH, M.H.          | Manhole, Mounting Height                                  | OH, OHD or Ohd.        | Overhead   |
| FL, Fl. or Fla.       | Florida                                    | ITS               | Intelligent Transportation Systems             | MHW               | Mean High Water   | Opt.                   | Option, Optional or Optically                        |
| Flex.                 | Flexible                                   |                   |  | $\mu$             | Micro   | OT                     | Overhead Telephone                                   |
| FNQ                   | Fuse (Type Slow Burn)                      | J                 | Joule  | Mi.               | Mile  | Oz.                    | Ounce  |
| FDC                   | Fiber Optics Cable                         | JB                | Junction Box                                   | Micro             | One-Millionth   | $\Omega$               | Ohm  |
| FPM or fpm            | Feet Per Minute                            | Jct.              | Junction                                       | Mid.              | Middle  | P                      | Passenger Car & Light Delivery Truck                 |
| FPS or fps            | Feet Per Second                            | Jt.               | Joint  | Mil               | One-Thousandth Of An Inch                                 | P or Plan              | Plan Quantity  |
| FR or Fr.             | Frame                                      |                   |  | Mil.              | Military  | Pa                     | Pascal   |
| Frang.                | Frangible                                  | K                 | Design Hour Factor or Kelvin                   | Milli             | One-Thousandth  | Par.                   | Parallel   |
| Freq.                 | Frequency                                  | k                 | Kilo (prefix)                                  | Min.              | Minimum or Minute   | Pa.s                   | Pascal Second  |
| F.S.                  | Florida Statutes                           | kg                | Kilogram                                       | Misc.             | Miscellaneous   | Part.                  | Participation or Partition                           |
| Ft.                   | Foot or Feet                               | kg/m              | Kilogram Per Meter                             | mL                | Milliliter  | Pavt.                  | Pavement   |
| FTB                   | Floating Turbidity Barrier                 | kg/m <sup>2</sup> | Kilogram Per Square Meter                      | MLW               | Mean Low Water  | PC                     | Point Of Curvature                                   |
| FTBA                  | Florida Transportation Builder Association | kg/m <sup>3</sup> | Kilogram Per Cubic Meter                       | mm                | Millimeter  | PCBC                   | Precast Concrete Box Culvert                         |
| FTP                   | Florida Traffic Plans                      | Kilo              | One Thousand                                   | mobl.             | Mobilization  | PCC                    | Point Of Compound Curvature or Plain Cement Concrete |
| Furn.                 | Furnish                                    | Kip               | 1000 Pounds                                    | Mod.              | Modify or Modified  | PCE                    | Permanent Construction Easement                      |
|                       |  | km                | Kilometer                                      | Mol               | Mole  | PE                     | Professional Engineer                                |
|                       |  | km/h              | Kilometer Per Hour                             | Mon.              | Monument  | Ped                    | Pedestrian or Pedestal                               |
| G                     | Giga or Gauss                              | kn                | Knot   | MOT               | Maintenance Of Traffic                                    | Pen.                   | Penetration  |
| g                     | Gram or Gravity                            | kN                | Kilonewton                                     | MP                | Mile Post   | PG                     | Profile Grade  |
| Galv.                 | Galvanized                                 | kPa               | Kilopascal                                     | MPa               | Megapascal  | PGL                    | Profile Grade Line                                   |
| Ga.                   | Gauge or Gage                              | ksi               | Kips Per Square Inch                           | MPH or mph        | Miles Per Hour  | Ph.                    | Phase  |
| Ga. or Gal.           | Gallon                                     | kV                | Kilovolt                                       | MSL               | Mean Sea Level  | pH                     | Measure Of Acidity or Alkalinity                     |
| Gar.                  | Garage                                     | kVA               | Kilovolt Ampere                                | MSTCSD            | Minimum Specifications For Traffic Control Signal Devices | PI                     | Point Of Intersection                                |
| GD                    | Gutter Drain                               | kWh               | Kilowatthour                                   |                   |   | Pkg.                   | Parking  |
| GFI                   | Ground Fault Interrupter                   |                   |  | Mtd.              | Mounted   | Pkgwy.                 | Parkway  |
| GIP                   | Galvanized Iron Pipe                       | L                 | Length, Length Of Curve, Liter, Left           | MUTCD             | Manual On Uniform Traffic Control Device                  | PL or $\bar{P}$        | Property Line or Plate                               |
| GM                    | Gas Main                                   | 2-L               | Two-Lane                                       | MUTS              | Manual On Uniform Traffic Studies                         | PM                     | 12:00 Noon Until 11:59 Midnight                      |
| GP                    | Grade Point                                | 2L1W              | Two-Lane One-Way                               |                   |   | POC                    | Point On Curve                                       |
| Gr.                   | Grade, Guardrail or Grate                  | 2L2W              | Two-Lane Two-Way                               | N                 | North or Newton   | PDST                   | Point On Semi-Tangent                                |
| Gr. or Gro.           | Gross                                      | LA or L/A         | Limited Access                                 | N/m               | Newtons Per Meter   | POT                    | Point On Tangent                                     |
| GRC                   | Galvanized Rigid Steel Conduit             | Lat.              | Lateral or Latitude                            | N/m <sup>2</sup>  | Newtons Per Square Meter                                  | PP                     | Power Pole   |
| Grd.                  | Ground                                     | Lb.               | Pound  | N/m <sup>3</sup>  | Newtons Per Cubic Meter                                   | PPB                    | Pier Protection Barrier                              |
| GRI                   | Geosynthetic Research Institute            | LBS.              | Pounds   | N/mm <sup>2</sup> | Newtons Per Square Millimeter                             | Pr.                    | Pair   |
| gross km              | Gross Kilometer                            | lb/sy             | Pounds Per Square Yard                         | NA or N/A         | Not Available or Not Applicable                           | PRC                    | Point Of Reverse Curvature                           |
| Gr. Wt. or gr. wt.    | Gross Weight                               | LBR               | Limerock Bearing Ratio                         | N & C             | Nail & Cap  | Prct.                  | Precast  |
| Gttr.                 | Gutter                                     | LC                | Long Chord                                     | N & D             | Nail & Disk   | Prest.                 | Prestressed  |
|                       |  | LED               | Law Enforcement With Flashing Lights And Radar | NAVD              | National American Vertical Datum                          | Prob.                  | Probability  |
| H                     | Henry                                      | LFD               | Load Factor Design                             | NB                | Northbound  | Prod.                  | Product, Production, Producer or Produced            |
| h                     | Hour or Hecto                              | Lgth.             | Length   | NC                | National Coarse or Normal Crown                           | Prog.                  | Program or Progression                               |
| ha                    | Hectare                                    | Lin.              | Linear   | NCHRP             | National Cooperative Research Program                     | Proj.                  | Project or Projection                                |
| HAR                   | Highway Advisory Radio                     | lm                | Lumen  | NDCBU             | Neighborhood Delivery And Collection Box Unit             | PRM                    | Permanent Reference Monument                         |
| HB                    | Hay Bales                                  | Lmrk.             | Limerock                                       | NE                | Northeast   | Prop.                  | Proposed   |
| HC                    | Horizontal Clearance                       | LDS               | Limit Of Clear Sight                           | net km            | Net Kilometer   | Prov.                  | Provisions   |
| HD                    | High Density or Heavy Duty                 | Loc., LO          | Location                                       | NEMA              | National Electrical Manufacturers Association             | PRS                    | Portable Regulatory Sign                             |
| HD or Hd.             | Head                                       | Long.             | Longitude                                      | NGVD              | National Geodetic Vertical Datum of 1929                  | PS & E                 | Plans, Specifications And Estimates                  |
| HDPE                  | High Density Polyethylene                  | LRFD              | Load Resistance Factor Design                  | NGS               | National Geodetic Survey                                  | PSF or psf             | Pounds Per Square Foot                               |
| Hdl.                  | Headwall                                   | LS                | Length Of Spiral                               | NHS               | National Highway System                                   | PSI or psi             | Pounds Per Square Inch                               |
| HH                    | Heavy Hex                                  | LT                | Left Turn                                      | NHW               | Normal High Water   | PT                     | Point Of Tangency or Pressure Treated                |
| Hndrl                 | Handrail                                   | Lt.               | Left   | NIC               | Not In Contract   | PVC                    | Polyvinyl Chloride                                   |
| HDA                   | Hand/Off/Automatic                         | Ltd.              | Lighted or Limited                             | NJ                | New Jersey  | PW                     | Pressure Water                                       |
| Horiz. or Hor.        | Horizontal                                 | Lum.              | Luminaire                                      |                   |   |                        |  |
| HP                    | High Pressure or Horsepower                | L/W               | Lightweight                                    |                   |   |                        |  |
| Hr.                   | Hour                                       | lx                | Lux  |                   |   |                        |  |
| HS                    | High Strength                              |                   |  |                   |   |                        |  |
| HSHV                  | High Strength Horizontal Vertical          |                   |  |                   |   |                        |  |
| Hse.                  | House                                      |                   |  |                   |   |                        |  |
| Ht.                   | Height                                     |                   |  |                   |   |                        |  |

The abbreviations listed are the standard for contract plans production. This list is not all inclusive. Other Department accepted abbreviations may be used when deemed more appropriate. Where special abbreviations are used a descriptive tabulation may be necessary in the plans.



**STANDARD ABBREVIATIONS**

|                      |   |
|----------------------|---|
| Q                    | Peak Discharge or Flow Volume                 |
| QPL                  | Qualified Products List                       |
| R                    | Right   |
| R or Rad.            | Radius  |
| R or Rng.            | Range   |
| rad                  | Radian  |
| rad/s                | Radian Per Second                             |
| RBAC                 | Rock Base Asphaltic Concrete                  |
| RBST                 | Rock Base Surface Treatment                   |
| RC                   | Reverse Crown                                 |
| RCP                  | Reinforced Concrete Pipe                      |
| RCPA                 | Reinforced Concrete Pipe Arch                 |
| Rd.                  | Road or Round                                 |
| Rdsd.                | Roadside                                      |
| Rdwy.                | Roadway                                       |
| Rec.                 | Recovery                                      |
| Rect.                | Reticuline or Rectangular                     |
| Ref.                 | Reference                                     |
| Refl.                | Reflective                                    |
| Reg.                 | Region, Regular, Registered or Regulation     |
| Reinf.               | Reinforced or Reinforcing                     |
| Rejuv.               | Rejuvenation                                  |
| Reloc.               | Relocated                                     |
| Rem.                 | Removal                                       |
| Repl.                | Replace                                       |
| Req. or Reqd.        | Required                                      |
| Res.                 | Residence or Residential                      |
| RGS                  | Rigid Galvanized Steel                        |
| RHW                  | Insulation (Moisture & Heat Resistant Rubber) |
| RM                   | Reference Monument                            |
| r/min                | Revolution Per Minute                         |
| RP                   | Reference Point                               |
| rpm                  | Revolution Per Minute                         |
| RPM                  | Raised Reflective Pavement Markers            |
| r/s                  | Revolution Per Second                         |
| RR                   | Railroad                                      |
| RSDU                 | Radar Speed Display Unit                      |
| Rsf.                 | Resurface                                     |
| Rt.                  | Right   |
| RU                   | Rack Unit                                     |
| R/W, RDW             | Right Of Way                                  |
| RX                   | Receive                                       |
| S or s               | Speed, South, Siemens, Or Second              |
| SAHM                 | Sand-Asphalt Hot Mix                          |
| SAN or San.          | Sanitary                                      |
| SB                   | Southbound                                    |
| SBAC                 | ShellBase Asphaltic Concrete                  |
| SBRM                 | Sand Bituminous Road Mix                      |
| SBST                 | ShellBase Surface Treatment                   |
| SC                   | Seal Coat or Spiral To Curve                  |
| Sch.                 | Schedule                                      |
| SCST                 | Sand-Clay Surface Treatment                   |
| SD                   | Side Drain, Storm Drain                       |
| SE                   | Southeast                                     |
| Sec.                 | Second  |
| Sect.                | Section                                       |
| Sed.                 | Sediment                                      |
| Sep.                 | Separator                                     |
| Seq.                 | Sequential                                    |
| Serv.                | Service                                       |
| SF                   | Adjustment Factor In Percent, Silt Fence      |
| SG                   | Subgrade                                      |
| SG                   | Specific Gravity                              |
| Sh. or Sht.          | Sheet   |
| Shldr.               | Shoulder                                      |
| SHW                  | Seasonal High Water                           |
| SIP                  | Stay In Place                                 |
| SP                   | Superpave                                     |
| Spa.                 | Space   |
| Spcg. or Sp.         | Spacing                                       |
| Spec.                | Specification                                 |
| SPT                  | Standard Penetration Test                     |
| Sq. Ft., SF, or S.F. | Square Foot                                   |
| Sq. In.              | Square Inch                                   |
| Sq. Yd., SY or S.Y.  | Square Yard                                   |
| SR or S.R.           | State Road                                    |
| SRAP                 | Spiral Rib Aluminum Pipe                      |

|                |   |
|----------------|---|
| SRASP          | Spiral Rib Aluminized Steel Pipe  |
| SRCP           | Steel Reinforced Concrete Pipe  |
| SRD            | State Road Department   |
| SRSP           | Spiral Rib Steel Pipe   |
| SS             | Sanitary Sewer  |
| SSMD           | Solid State Modular Design  |
| ST             | Surface Treatment or Spiral To Tangent                                  |
| St. or ST.     | Street  |
| Sta.           | Station   |
| Stab.          | Stability or Stabilization  |
| STB            | Staked Turbidity Barrier  |
| Std.           | Standard  |
| Stg.           | Strong  |
| Stge.          | Storage   |
| Stl.           | Steel   |
| Str.           | Structure   |
| Sty.           | Story   |
| SU             | Single Unit Trucks  |
| Sub. or Subs.  | Subsoil   |
| Sub. or Subst. | Substitute  |
| Subgr.         | Subgrade  |
| Suppts.        | Supports  |
| SUR or Sur.    | Survey  |
| Surf.          | Surface   |
| SW             | Southwest   |
| SW or Swk.     | Sidewalk  |
| Sys. or Syst.  | System  |
| Sv             | Sievert   |
| Sym.           | Symmetrical   |
| T              | Tangent, Length Of Curve, Percent Trucks, Tesla,                        |
| T, TWP or Twp. | Township  |
| t              | Metric Ton  |
| tan.           | Tangent   |
| TBM            | Temporary Bench Mark  |
| TC             | Tangent To Curve  |
| TCB            | Temporary Concrete Barrier  |
| TCE            | Temporary Construction Easement   |
| TCP            | Terra Cotta Pipe  |
| TCZ            | Traffic Control Zone  |
| TDLC           | Transportation Design For Livable Communities                           |
| Tel.           | Telephone   |
| Temp.          | Temperature or Temporary  |
| Theo.          | Theoretical   |
| THRMP/LSTC     | Thermoplastic   |
| THW or THWN    | Insulation (Flame Retardant, Moisture And Heat Resistant Thermoplastic) |
| Thick.         | Thickness   |
| Tk             | Thick, Thickness or Truck   |
| Tn.            | Ton   |
| Traf.          | Traffic   |
| Trans.         | Transition, Transverse, Translate or Transportation                     |
| Treat.         | Treatment   |
| TS             | Tangent To Spiral   |
| TSC            | Length Of Tangent (Spiral Curve)  |
| TTC            | Temporary Traffic Control   |
| TVSS           | Transient Voltage Surge Suppression                                     |
| TX             | Transmit  |
| Typ.           | Typical   |
| Upass.         | Underpass   |
| UG             | Underground   |
| UL             | Underwriters Laboratories   |
| Ult.           | Ultimate  |
| Ultd.          | Unlimited   |
| Unddr.         | Underdrains   |
| Undrdwy.       | Underroadway  |
| UNL or Undl.   | Unloaded  |
| Untr.          | Untreated   |
| UPS            | Uninterruptible Power Supply  |
| USC & GS       | US Coast and Geodetic Survey (now National Geodetic Survey)             |
| USGS           | US Geological Survey  |
| USPS           | United States Postal Service  |
| Util.          | Utilities   |
| UV             | Ultraviolet   |

|                 |   |
|-----------------|---|
| V               | Volt, Velocity, Volume or Hourly Volume             |
| Var.            | Varies, Variable or Variance                        |
| VC              | Vertical Curve                                      |
| VCP             | Vitrified Clay Pipe                                 |
| VECP            | Value Engineering Change Proposal                   |
| Veh.            | Vehicle   |
| Vert.           | Vertical  |
| VF              | Vertical Foot                                       |
| Vh              | Verified Horizontal Location                        |
| VMS             | Variable Message Sign                               |
| Vol.            | Volume  |
| VP              | Vertical Panel                                      |
| VPD or Vpd.     | Vehicles Per Day                                    |
| VPH or Vph.     | Vehicles Per Hour                                   |
| VPHPL or Vphpl. | Vehicles Per Hour Per Lane                          |
| VRMS            | Volts Root Mean Square                              |
| Vv              | Verified Vertical Elevation                         |
| Vvh             | Verified Vertical Elevation And Horizontal Location |
| VW              | Variable Width                                      |
| W               | Width, Wide, West or Watt                           |
| W/C             | Water-Cement Ratio                                  |
| WB              | Westbound   |
| Wb.             | Weber   |
| WB40            | Intermediate Semi Trailer                           |
| WB50            | Large Semi Trailer                                  |
| WB62            | Interstate Semi Trailer                             |
| WB67D           | Tandem Semi Trailer                                 |
| WM              | Water Main  |
| W.P.I.          | Work Program Item                                   |
| WT              | Water Table Or Weight                               |
| WWF             | Welded Wire Fabric                                  |
| WWR             | Welded Wire Reinforcing                             |
| X               | Coordinate Value (East-West Direction) or Extra     |
| X Rd.           | Cross Road  |
| Xing.           | Crossing  |
| Xsec.           | Cross Section                                       |
| Y               | Coordinate Value (North-South Direction)            |
| Yd.             | Yard  |
| Yr.             | Year  |

**UNITS OF MEASURE**

| US MEASUREMENT     |                           |
|--------------------|---------------------------|
| AC                 | Acre                      |
| AS                 | Assembly                  |
| BU                 | Bushel                    |
| CF                 | Cubic Foot                |
| CD                 | Cleanout                  |
| CY                 | Cubic Yard                |
| EA                 | Each                      |
| ED                 | Each Day                  |
| GA                 | Gallon                    |
| GM                 | Gross Mile                |
| LB                 | Pound                     |
| LF                 | Linear Foot               |
| LM                 | Lane Mile                 |
| LO                 | Per Location              |
| LS                 | Lump Sum                  |
| LU                 | Luminaire                 |
| MB                 | Thousand Board Measure    |
| MG                 | Thousand Gallons          |
| MH                 | Man Hour                  |
| NM                 | Net Mile                  |
| PA                 | Per Analysis              |
| PB                 | Per Building              |
| PE                 | Pile                      |
| PI                 | Per Intersection          |
| PL                 | Plant                     |
| PM                 | Per Mile                  |
| PS                 | Per Set                   |
| PW                 | Per Well                  |
| SI                 | Square Inch               |
| SF                 | Square Foot               |
| SY                 | Square Yard               |
| TN                 | Ton                       |
| METRIC MEASUREMENT |                           |
| AS                 | Assembly                  |
| CD                 | Cleanout                  |
| DA                 | Day                       |
| EA                 | Each                      |
| ED                 | Each Day                  |
| GK                 | Gross Kilometer           |
| HA                 | Hectare                   |
| HR                 | Hour                      |
| KG                 | Kilogram                  |
| KL                 | Kiloliter                 |
| KM                 | Kilometer                 |
| LI                 | Liter                     |
| LK                 | Lane Kilometer            |
| LO                 | Per Location              |
| LS                 | Lump Sum                  |
| LS/AS              | Lump Sum Per Assembly     |
| LS/DA              | Lump Sum Per Day          |
| LS/EA              | Lump Sum Per Each         |
| LS/HA              | Lump Sum Per Hectare      |
| LS/KG              | Lump Sum Per Kilogram     |
| LS/LS              | Lump Sum Per Lump Sum     |
| LS/MT              | Lump Sum Per Metric Ton   |
| LS/MI              | Lump Sum Per Linear Meter |
| LS/M2              | Lump Sum Per Square Meter |
| LU                 | Luminaire                 |
| MH                 | Man Hour                  |
| MO                 | Month                     |
| MT                 | Metric Ton                |
| M1                 | Meter                     |
| M2                 | Square Meter              |
| M3                 | Cubic Meter               |
| NK                 | Net Kilometer             |
| PA                 | Per Analysis              |
| PB                 | Per Building              |
| PI                 | Per Intersection          |
| PL                 | Plant                     |
| PW                 | Per Well                  |

The abbreviations listed are the standard for contract plans production. This list is not all inclusive. Other Department accepted abbreviations may be used when deemed more appropriate. Where special abbreviations are used a descriptive tabulation may be necessary in the plans.

