

A Area or Amperes  
AAA American Automobile Association  
AADT Annual Average Daily Traffic  
AASHD 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  
Bbl. Barrel  
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 Base Line, Base Line Control  
Bldg. Building  
Bikh. Bulkhead  
BLON 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 C Concrete 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  
Dist. Distance  
Disp. Disposal  
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  
EQS 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

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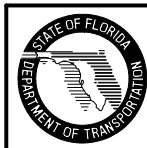
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F	Fill, Farad	Hwy.	Highway	M	Mass, Middle Ordinate Length or Mega	NJ	New Jersey
F or Final	Final Quantity	Hyd.	Hydraulic	m	Meter or Milli	N m	Newton Meter
F & I	Furnish & Install	Hz	Hertz	m <sup>2</sup>	Square Meter or Meter Square	No.	Number
F to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

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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  
 Rd. 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 Shell Base Asphaltic Concrete  
 SBRM Sand Bituminous Road Mix  
 SBST Shell Base 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  
 Traf. Traffic  
 Theo. Theoretical  
 THRMPLSTC Thermoplastic  
 THW or THWN Insulation (Flame Retardant, Moisture And Heat Resistant Thermoplastic)  
 Thick. Thickness  
 Tk Thick, Thickness or Truck  
 Tn. Ton  
 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. Year  
 Yr.

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

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