

LANSING BOARD OF

WATER &amp; LIGHT

# Water T&D Construction Standard

## STANDARD ABBREVIATIONS

APPLICATION: LBWL standard abbreviations for working drawings and written communications.

<b>A</b>	ABANDON	aband.
	ABOVE FINISH FLOOR	A.F.F.
	ABOVE FINISH GRADE	A.F.G.
	ALLEY	Aly.
	ALTERNATING CURRENT	AC
	ALUMINUM	ALUM. or Al.
	AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
	AMERICAN SOCIETY of SANITATION ENGINEERS	ASSE
	AMERICAN WATER WORKS ASSOCIATION	AWWA
	AMERICAN WIRE GAUGE	AWG
	AMPERE	A
	AMPERE-HOUR	Ah
	ANCHOR	Anc.
	APPROVED	App'd
	APPROXIMATE	approx.
	AS REQUIRED	AR
	ASSEMBLY	assy.
	ATTACHMENT	attach.
	AUTHORIZATION	Auth.
	AUTOMATED MAPPING/ FACILITIES MANAGEMENT	AM/FM
	AVENUE	Ave.
	AVERAGE	avg.
	AMERICAN WATER WORKS ASSOCIATION	AWWA
<b>B</b>	BENCH MARK	B.M.
	BILL OF SALE	B/S
	BOULEVARD	Blvd.
	BOUNDARY	bndry.
	BRITISH THERMAL UNIT	Btu
	BUILDING	Bldg.
<b>C</b>	CALORIE	cal
	CENTER LINE	C/L
	CENTIMETER	cm
	CIRCLE	cir.
	CIRCUIT	ckt
	CIRCULAR MIL	cmil
	CLEARANCE	clear.
	CLOSE	C
	CONCENTRIC	conc.
	COMMON	com.
	COMPRESSION	Comp.
	CONSTRUCTION	const.
	COPPER	Cu.

	COPPER TUBE SIZE	CTS
	CORNER	cor.
	CORPORATION	corp.
	COURT	Ct.
	CUBIC CENTIMETER	cm <sup>3</sup>
	CUBIC FEET (HUNDREDS)	CCF
	CUBIC FOOT PER MINUTE	CFM
	CUBIC METER	m <sup>3</sup>
	CUBIC METER PER SECOND	m <sup>3</sup> /S
	CYCLE PER SECOND (Hertz)	Hz
<b>D</b>	DEGREE (ANGLE)	o
	DEGREE CELSIUS	°C
	DEGREE FAHRENHEIT	°F
	DEGREE (TEMPERATURE)	deg.
	DIAMETER	dia.
	DIRECT CURRENT	dc
	DISTRIBUTION	dist.
	DIVISION	Div.
	DOUBLE CHECK DETECTOR ASSEMBLY	DCDA
	DRIVE	Dr.
	DUCTILE IRON	D.I.
	DUCTILE IRON PIPE	DIP
	DUCTILE IRON PIPE RESEARCH ASSOCIATION	DIPRA
<b>E</b>	EACH	ea.
	EAST	E.
	EAST OF	E/O
	ELECTRIC/ELECTRICAL	Elect.
	ELECTRONICALLY CONTROLLED REGISTER	ECR
	EQUIPMENT	eqpt.
	ESTIMATE	est.
	ETHYLENE PROPYLENE DIENE - MODIFIED (monomer)	EPDM
	EXTEND	ext.
<b>F</b>	FEMALE IRON PIPE	FIP or F.I.P.
	FIELD CHECK	fld.ck.
	FIBERGLASS	F.G.
	FIRE ALARM	FA
	FLANGE	FL. or FLG
	FLARED	FL
	FLARED COPPER	FLCU
	FLAT	fl.
	FOOT	ft.
	FOOT PER MINUTE	ft/min
	FOOT PER SECOND	ft/s
	FOOT POUND-FORCE	ft-lbf
	FOUNDATION	Fdn.
<b>G</b>	GALLON	gal.
	GALLON PER MINUTE	GPM
	GALVANIZED	Galv.
	GRAM	g
	GROUND	Grd.

<b>H</b>	HEIGHT	Ht.
	HIGH DENSITY POLYETHYLENE	HDPE
	HIGH STRENGTH	H/S
	HIGH VOLTAGE	HV
	HIGHWAY	Hwy.
	HORIZONTAL	hor.
	HORIZONTAL DIRECTIONAL DRILLING	HDD
	HORSEPOWER	hp
	HOUR	h
	HYDRANT	HYD.
<b>I</b>	INCH	in.
	INCHES PER SECOND	in/s
	INFRARED	IR
	INSIDE DIAMETER	I.D.
	INSTALLATION	inst. or I/S
	INSULATION	Insul.
	INTERSECTION	inters.
<b>J</b>	JOB ORDER	JO
	JOINT	jt.
<b>K</b>	KILOGRAM	kg
	KILOHM	k $\Omega$
	KILOMETER	km
	KILOMETER PER HOUR	km/h
	KILOVOLT	kV
	KILOWATT	kW
<b>L</b>	LITER	l
	LITER PER SECOND	l/s
	LOW FREQUENCY	LF
<b>M</b>	MAINTENANCE WORK ORDER	MWO
	MALE IRON PIPE	MIP or M.I.P.
	MANAGER	Mgr.
	MAN HOLE	MH
	MANUFACTURER	Mfr.
	MAXIMUM	Max.
	MECHANICAL	Mech.
	MECHANICAL JOINT	MJ
	MEGACYCLE PER SECOND (MEGAHERTZ)	MHz
	MEGAVOLT/AMPS	MVA
	MEGAWATT	MW
	MEGOHM	M $\Omega$
	METER	m
	MICROAMPERE	$\mu$ A
	MICROSECOND	$\mu$ s
	MICROWATT	$\mu$ W
	MILE (STATUTE)	mi.
	MILLIAMPERE	mA
	MILLIMETER	mm
	MILLIMETER OF MERCURY, CONVENTIONAL	mmHg
	MILLISECOND	ms
	MILLIVOLT	mV

	MILLIWATT	mW
	MINIMUM	Min.
	MINUTE (ANGLE)	'
	MINUTE (TIME)	min
<b>N</b>	NATIONAL SANITATION FOUNDATION	NSF
	NEUTRAL	neut.
	NEWTON METER	N-m
	NO CHARGE	N/C
	NOMINAL PIPE SIZE	NPS
	NORMALLY CLOSED	N.C.
	NORMALLY OPEN	N.O.
	NORTH	N.
	NORTH OF	N/O
	NOT TO SCALE	NTS
	NUMBER	No.
<b>O</b>	OHM	$\Omega$
	ONE THOUSAND CIRCULAR MILS	Kcmils or MCM
	OPEN	O.
	ORIGINAL	orig.
	OUNCE (AVOIRDUPOIS)	oz.
	OUTSIDE DIAMETER	O.D.
	OVERHEAD	OH
	OVERHEAD GROUND WIRE	OHG
<b>P</b>	PART	prt.
	PHASE	$\emptyset$
	PLAIN END	P.E.
	POINT	pt.
	POUND	lb.
	POUND FORCE FOOT	lbf-ft
	POUND-FORCE PER SQUARE INCH	lbf/in <sup>2</sup>
	POUND PER SQUARE INCH	psi
	POWER FACTOR	PF
	PRIMARY	PRI
	PRIVATE BRANCH EXCHANGE	PBX
	PROPOSED	prop.
	PURCHASE	purch.
<b>Q</b>	QUADRANT	Quad.
	QUANTITY	Qty
<b>R</b>	RADIO-FREQUENCY INTERFERENCE	RFI
	RECORD	rec.
	REDUCED PRESSURE ZONE DETECTOR ASSEMBLY	RPDA a.k.a. (RPZ)
	REINFORCING	reinf.
	RELINQUISH	relinq.
	RELOCATE	reloc. or R/L
	REMOVE	rem. of R/M
	REPLACE	repl.
	REQUIRED	req'd.
	REVISED or REVISION	Rev.
	REVOLUTION PER MINUTE	rpm
	REVOLUTION PER SECOND	r/s

	RIGHT-OF-WAY	R.O.W.
	ROOT-MEAN-SQUARE	rms
<b>S</b>	SALVAGE	salv.
	SECOND (ANGLE)	"
	SECOND (TIME)	s
	SECONDARY	sec.
	SECTION	sect.
	SIDEWALK	sw
	SILICON CONTROLLED RECTIFIER	SCR
	SOUTH	S.
	SOUTH OF	S/O
	SPECIFICATION	Spec.
	SQUARE FOOT	ft <sup>2</sup>
	SQUARE INCH	in <sup>2</sup>
	SQUARE METER	m <sup>2</sup>
	SQUARE YARD	yd <sup>2</sup>
	STAB JOINT	SJ
	STANDARD	std.
	STANDARDS COMMITTEE & EVALUATION COMMITTEE	SC/EVC
	STREET	St.
	SUPPLEMENT	suppl.
	SWITCH YARD	SwYd
<b>T</b>	TEMPERATURE	Temp.
	TOUCH READ / PIT LID	TR/PL
	TOWNSHIP	Twp.
	TRANSFER	trnsf. or T/F
	TRANSFORMER	XMFR or xmfr
	TRANSMISSION	trnsm.
	TRANSMISSION & DISTRIBUTION	T&D
	TYPICAL	Typ.
<b>U</b>	ULTRAVIOLET	UV
	UNDERGROUND	U.G.(for cable & duct)
	UNDERGROUND RESIDENTIAL DISTRIBUTION	U.R.D.(for direct burial)
	UNDERGROUND/STREET LIGHTING	USL
<b>V</b>	VERTICAL	Vert.
	VOLT-AMPERE (REACTIVE)	var
	VOLT	V
<b>W</b>	WATT	W
	WATT-HOUR	Wh
	WEATHER PROOF	WP
	WEST	W.
	WEST OF	W/O
	WITH	W/
	WORK ORDER NUMBER	W.O.
<b>Y</b>	YARD	yd