

ABBREVIATIONS

AMMETER, AMPERE, AMPS	DN	DOWN
ABANDON	DO	DITTO
ABOVE	DP	DISTRIBUTION PANELBOARD
ASPHALTIC CONCRETE/ALTERNATING CURRENT	DS	DISCONNECT SWITCH
ASPHALT CONCRETE PAVEMENT	DWG	DRAWING
ADS CORRUGATED POLYETHYLENE PIPE	E	EAST
AMP FRAME	EA	EACH
ABOVE FINISHED FLOOR	EC	ELECTRICAL CONDUIT
ABOVE FINISHED GRADE	ED	ELECTRICAL DUCT
AIR HANDLING UNIT	EF	EXHAUST FAN
AMPS INTERRUPTING CAPACITY	EGC	EQUIPMENT GROUND CONDUCTOR
ALUMINUM	EI	ELECTRICAL INTERLOCK
ALTERNATE	ELEC	ELECTRIC/ELECTRICAL
AMMETER	EL, ELEV	ELEVATION
AMPERE	ELT	EQUIPMENT LIGHT
AMERICAN NATIONAL STANDARDS INSTITUTE	EMBT	EMBEDMENT
AIRFIELD OPERATIONS AREA	EMT	ELECTRICAL METALLIC TUBING
APPROXIMATE	EMERG	EMERGENCY
ARCHITECTURAL	ENCL	ENCLOSURE
ASPHALT	ENGR	ENGINEER
AIRPORT SURVEILLANCE RADAR	EOP	EDGE OF PAVEMENT
AMERICAN SOCIETY FOR TESTING MATERIAL	EPR	ETHYLENE PROPYLENE RUBBER
AMP TRIP	EQ	EQUAL
AUTOMATIC TRANSFER SWITCH	EQUIP	EQUIPMENT
AUXILIARY	EQUIV	EQUIVALENT
AUTOMATIC	ETL	ELECTRICAL TESTING LABORATORY
AVERAGE	EW	EACH WAY
AMERICAN WIRE GAUGE	EW	ELECTRIC WATER COOLER
	EW	ELECTRIC WATER HEATER
BATTERY	EXIST	EXISTING
BOLT CIRCLE/BARE COPPER	EXH	EXHAUST
BETWEEN	EXJ	EXPANSION JOINT
BITUMINOUS	EXP	EXPOSED
BUILDING	EXT	EXTERIOR
BENCH MARK	E-W	EAST-WEST
BREAKER		
BOTTOM	F	FARENHEIT, FEEDER
	FAA	FEDERAL AVIATION ADMINISTRATION
CONDUCTOR	FACP	FIRE ALARM CONTROL PANEL
CABINET	FC	FOOT CANDLE
CATALOG	FD	FIELD DRILL, FLOOR DRAIN
CATCH BASIN OR CIRCUIT BREAKER	FDN	FOUNDATION
CONSTANT CURRENT REGULATOR	FDR	FEEDER
CEMENT	FH	FIRE HYDRANT
CUBIC FOOT	FHP	FRACTIONAL HORSEPOWER
CAST IRON	FIN	FINISHED
CAST-IN-PLACE	FIN FL	FINISHED FLOOR
CONSTRUCTION JOINT	FIXT	FIXTURE
CIRCUIT	FL	FLOOD LIGHT
CLEAR	FLEX	FLEXIBLE CONDUIT
CLASS OR CENTERLINE	FLR	FLOOR
CEILING	FLUOR	FLUORESCENT
CORRUGATED METAL PIPE,	FM	FACTORY MUTUAL
CENTRAL MECHANICAL PLANT	FO	FIBER OPTIC
CONDUIT ONLY	FS	FAR SIDE
COLUMN	FT	FOOT (FEET)
COMMUNICATION(S)	FTG	FOOTING
CONCRETE	FU	FUSE
CONDUIT	FUT	FUTURE
CONNECT/CONNECTION	FV	FULL VOLTAGE
CONSTRUCTION	FVR	FULL VOLTAGE REVERSING
CONTINUOUS	FVNR	FULL VOLTAGE NON-REVERSING
CONTRACTOR		
COORDINATE	G	GREEN INDICATING LIGHT OR GROUND (ELECTRICAL)
CONCRETE PIPE	GALV	GALVANIZED
CAPPED	GB	GROUND BEAM
CONTROL POWER TRANSFORMER	GCB	GAS CIRCUIT BREAKER
CONTROL RELAY	GEC	GROUNDING ELECTRODE CONDUCTOR
PVC COATED RIGID STEEL	GEN	GENERATOR
CONTROL SWITCH/CONTROL STATION	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
CANADIAN STANDARDS ASSOCIATION	GFI	GROUND FAULT INTERRUPTER
CURRENT TRANSFORMER	GND	GROUND
CENTRAL TERMINAL EXPANSION	GR	GRADE, GROUND ROD
CENTER	GRS	GALVANIZED RIGID STEEL
CONTROL	GV	GATE VALVE
CURRENT TEST SWITCH		
COPPER	H	HEIGHT (HIGH)
CUBIC YARD	HBS	HIGH BUS SUPPORT
	HCO	ANNUNCIATOR HORN CIRCUIT
DUCT BANK	HSS	HIGH BUS DISCONNECT SWITCH SUPPORT
DIRECT BURIAL CABLE	HEX	HEXAGONAL
DIRECT CURRENT	HF	H-FRAME
DIRECT DIGITAL CONTROL	HH	HANDHOLE
DEDICATED	HID	HIGH INTENSITY DISCHARGE
DETAIL	HK	HOOK
DIAMETER	HMI	HUMAN-MACHINE INTERFACE
DIFFERENTIAL	HOA	HAND-OFF-AUTO
DIMENSION	HORIZ	HORIZONTAL
DUCTILE IRON PIPE	HP	HORSEPOWER
DISCONNECT	HPS	HIGH PRESSURE SODIUM
DISTRIBUTION	HTR	HEATER
	HV	HIGH VOLTAGE
	HZ	HERTZ

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I/O	CURRENT, INTERLOCK INPUT/OUTPUT PANEL	PA	PUBLIC ADDRESS
IC	INTERRUPTING CAPACITY	P	PANEL, POLE, PHASE, POWER
ID	INSIDE DIAMETER/DIMENSION	PAV	PAVEMENT
IE	INVERT ELEVATION	PB	PUSH BUTTON
IJB	INSTRUMENT JUNCTION BOX	PBX	PRIVATE BRANCH EXCHANGE
ILS	INSTRUMENT LANDING SYSTEM	PC	POINT OF CURVATURE, PIECE
IN	INCH	PCC	PORTLAND CEMENT CONCRETE
INCL	INCLUDING	PCF	POUND PER CUBIC FOOT
INST	INSTANTANEOUS	PCS	PORT CONSTRUCTION SERVICES
INSTR	INSTRUMENT	PE	PHOTOELECTRIC SENSOR
INV	INVERT	PERF	PERFORATED
IPS	IRON PIPE SIZE	PF	POWER FACTOR
IWS	INDUSTRIAL WASTE SEWER	PH OR #	PHASE
		PKG	PACKAGE
		PL	PLATE
J, JB	JUNCTION BOX	PLCS	PLACES
JCT	JUNCTION	PMI	PADMOUNT FAULT INTERRUPTOR
JT	JOINT	PNL	PANEL
		PNLBD	PANELBOARD
K	KIRK INTERLOCK, KIP	POS	PORT OF SEATTLE
KCMIL	THOUSAND CIRCULAR-MIL	PR	PAIR
KO	KEY OPERATED	PREFAB	PREFABRICATED
KSI	1000 POUNDS PER SQUARE INCH	PRI	PRIMARY
KV	KILOVOLT	PROJ	PROJECT
KVA	KILOVOLT AMPERE(S)	PS	POWER SUPPLY
KVAR	KILOVOLT AMPERES REACTIVE	PSE	PUGET SOUND ENERGY
KVARH	KILOVAHOUR	PSF	POUND PER SQUARE FOOT
KW	KILOWATT	PSI	POUND PER SQUARE INCH
KWH	KILOWATT HOUR	PT	POINT OF TANGENCY, POINT
KWHD	KILOWATT HOUR DEMAND	PTVC	POINT OF TANGENCY, VERTICAL CURVE
		PVC	POLYVINYL CHLORIDE
		PWR	POWER
L	LENGTH, ANGLE, LIGHT, LOCAL		
LB	POUND, LOADBREAK	QTY	QUANTITY
LBS	POUNDS, LOW BUS SUPPORT		
LC	LIGHTING CONTACTOR	R	RADIUS, REMOTE, OR RED INDICATING
LCP	LOCAL CONTROL PANEL		
LDSS	LOW BUSS DISCONNECT SUPPORT SWITCH		
LED	LIGHT EMITTING DIODE	RCP	REINFORCED CONCRETE PIPE
LF	LINEAR FEET/FOOT	REC'D	RECEIVED
LIN	LINEAR	REC	RECEPTACLE
LO	LOW	RED	REDUCER
LONGIT	LONGITUDE	REF	REFERENCE
LP	LIQUID PETROLEUM	REINF	REINFORCEMENT
LS	LIMIT SWITCH	REQD	REQUIRED
LT	LIGHT	REV	REVISION/REVISED
LTC	LOAD TAP CHANGER	RGS	RIGID GALVANIZED STEEL
LTG	LIGHTING	RM	ROOM
LTS	LIGHTS	ROW	RIGHT-OF-WAY
LV	LOW VOLTAGE	RP	RADIUS POINT
L-L	LINE-TO-LINE	RPM	REVOLUTIONS PER MINUTE
		RTU	REMOTE TERMINAL UNIT
M	MOTOR	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
MAX	MAXIMUM	RVNR	REDUCED VOLTAGE NON-REVERSING
MC	MISCELLANEOUS CHANNEL	R/W	RUNWAY, RIGHT-OF-WAY
MCC	MOTOR CONTROL CENTER		
MCM	MILLION CIRCULAR MILS	S	SOUTH, SEWER MANHOLE
MCP	MOTOR CIRCUIT PROTECTOR	SA	SURGE ARRESTOR
MCOV	MAXIMUM CIRCUIT OPERATING VOLTAGE	SC	SECTIONALIZING CABINET
MECH	MECHANICAL	SCADA	SUPERVISORY CONTROL AND
MEMB	MEMBRANE		
MFM	MULTIFUNCTION METER		
MFR	MANUFACTURER	SCH	SCHEDULE
MG	MOTOR GENERATOR	SD	SOFT DRAWN (COPPER), STORM DRAIN
MH	MANHOLE	SEC	SECOND, SECONDARY
MIN	MINIMUM	SECT	SECTION
MISC	MISCELLANEOUS	SF	SQUARE FOOT/FEET
MLO	MAIN LUGS ONLY	SHLD	SHIELD OR SHIELDED
MON	MONUMENT	SHT	SHEET
MR	MULTI-RATIO	SI	SQUARE INCH/INCHES
MTD	MOUNTED	SIM	SIMILAR
MTG	MOUNTING	SK	SKETCH
MTR	MOTOR	SOGM	SWITCH OPERATOR GROUND MAT
MTS	MAIN TERMINAL SECURITY	SP	SPACED, SPACING
MVA	MEGAVOLT-AMPERE	SPDT	SINGLE POLE DOUBLE THROW
		SPEC	SPECIFICATION(S)
		SPP	STEEL POWER POLE
N	NORTH/NEUTRAL	SQ	SQUARE
NC	NORMALLY CLOSED	SS	SANITARY SEWER
NE	NORTHEAST	SSS	SWITCH SUPPORT STRUCTURE
NEC	NATIONAL ELECTRICAL CODE	SSTL	STAINLESS STEEL
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	ST	STREET
		STA	STATION
NEUT	NEUTRAL	STD	STANDARD
NIC	NOT IN CONTRACT	STEP	SOUTH TERMINAL EXPANSION PROJECT
NO	NORMALLY OPEN	STL	STEEL
NO.	NUMBER	STIA	SEA-TAC INTERNATIONAL AIRPORT
NPP	NON-PERFORATED PIPE	STM	STEAM
NTS	NOT TO SCALE	STR	STRUCTURAL
N-S	NORTH-SOUTH	SUB	SUBSTITUTION
		SUBSTA	SUBSTATION
		SUPT	SUPPORT
OC	ON CENTER	SV	SOLENOID VALVE, SWITCH VAULT
OD	OUTSIDE DIAMETER/DIMENSION	SVC	SERVICE
OHW	OVERHEAD WIRE	STR	STRUCTURAL
OL	OVERLOAD	SURF	SURFACE
OP	OPERATED	SW	SWITCH
OPP	OPPOSITE	SWB	SWITCHBOARD
OPER	OPERATOR		

SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYNC	SYNCHRONOUS
SYNCS	SYNCHROSCOPE
SY	SQUARE YARD/YARDS
SYS	SYSTEM
T	TELEPHONE PEDESTAL, THERMOSTAT
TAN	TANGENT
TB	TERMINAL BOARD, TERMINAL BLOCK
TBD	TO BE DETERMINED
TC	TOP OF CURVE
TD	TIME DELAY
TE	TOP ELEVATION
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL, TERMINATION
TESCP	TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN
THHN	HEAT-RESISTANT THERMOPLASTIC
THWN	MOISTURE-AND-HEAT RESISTANT THERMOPLASTIC
THRU	THROUGH
TMH	TELEPHONE MANHOLE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOP	TOP OF PAVEMENT
TOS	TOP OF SUPPORT OR STEEL
TOW	TOP OF WALL
TP	TURNING POINT
TRAN	TRANSVERSE
TS	TUBE STEEL
TSP	TWISTED-SHIELDED-PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
T/D	TRANSDUCER
T/L, TL	TAXILANE
T/W	TAXIWAY
T&B	TOP AND BOTTOM
UBC	UNIFORM BUILDING CODE
UF	UNDER FLOOR
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UMC	UNIFORM MECHANICAL CODE
UN	UNLESS NOTED
UNC	UNIFIED NATIONAL COARSE THREAD
UNO	UNLESS NOTED OTHERWISE
UPC	UNIFORM PLUMBING CODE
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLT
VAR	VOLT AMPERE REACTIVE
VARM	VAR METER
VERT	VERTICAL
VFI	VACUUM FAULT INTERRUPTER
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VOL	VOLUME
VS	VERSUS
VSD	VARIABLE SPEED DRIVE
VT	VOLTAGE TRANSFORMER
VTS	VOLTAGE TEST SWITCH
W	WIDE FLANGE, WATT, WIDTH, WEST WHITE INDICATING LIGHT, WATER
WH	WATTHOUR
WM	WATTMETER
W/O	WITHOUT
WP	WEATHERPROOF
WPP	WOOD POWER POLE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
W/	WITH
X	REACTANCE
XFMR	TRANSFORMER
XHHW	MOISTURE/AND HEAT RESISTANT CROSS LINKED SYNTHETIC POLYMER
XMTR	TRANSMITTER
XP	EXPLOSION PROOF
&	AND
@	AT
#	NUMBER
%	PERCENT
%Z	PERCENT IMPEDANCE
Ø	PHASE

DRAWING TITLE

