CODES, SYMBOLS

DRAWING NUMBER	SHT.	DRAWING TITLE	DWG REV.	BOM REV.
A-02-01	**1**	**CODE FOR LINE IDENTIFICATION**	**0**	**-**
A-02-01	**2**	**CODE FOR LINE IDENTIFICATION**	**0**	**-**
A-02-01	**3**	**CODE FOR LINE IDENTIFICATION**	**0**	**-**
A-02-01	**4**	**CODE FOR LINE IDENTIFICATION**	**0**	**-**
A-02-01	**5**	**CODE FOR LINE IDENTIFICATION**	**0**	**-**
A-02-01	**6**	**CODE FOR LINE IDENTIFICATION**	**0**	**-**
A-02-01	**7**	**CODE FOR LINE IDENTIFICATION**	**A**	**-**
A-02-01	**8**	**CODE FOR LINE IDENTIFICATION**	**A**	**-**
A-02-02	**1**	**SYMBOLS**	**A**	**-**
A-02-02	**2**	**SYMBOLS**	**B**	**-**
A-02-02	**3**	**SYMBOLS**	**B**	**-**
A-02-02	**4**	**SYMBOLS**	**B**	**-**
A-02-03	**1**	**METRIC CONVERSION**	**0**	**-**
A-02-03	**2**	**METRIC CONVERSION**	**0**	**-**
A-02-04	**1**	**MISCELLANEOUS ABBREVIATIONS**	**0**	**-**

*Sask**Power*** - DISTRIBUTION STANDARDS

APPROVAL	DESIGN CHK	DRN. **ARU**	
L. MOEN	**A. UHREN**	CHKD.	**INDEX**
		2016-10-20	

DATE OF ISSUE: 2016/11/08 | DRAWING NO: **A-02-INDEX** | **SHEET 1 OF 1** | REV. **F**

OVERHEAD PRIMARY LINE IDENTIFICATION

OVERHEAD PRIMARY LINES ARE DESCRIBED USING 9 BLOCKS. THESE BLOCKS ARE EXPLAINED BELOW.

1	2	3	4	-	5	6	7	-	8	9

BLOCK NO. 1
INDICATES THE POSITION OF THE GROUP OF PHASES. OMITTED IF DESCRIBING SINGLE PHASE CIRCUITS AND THE TOP CIRCUIT ON THE STRUCTURE FOR MULTIPLE CIRCUIT LINES.

BLOCK NO. 2
INDICATES THE NUMBER OF PHASES IN THE GROUP. OMITTED IF DESCRIBING SINGLE PHASE CIRCUITS.

BLOCK NO. 3
INDICATES THE PRESENCE OF NEUTRAL/SHIELD WIRES IN THE GROUP. OMITTED IF NO NEUTRAL/SHIELD WIRE PRESENT.

BLOCK NO. 4
INDICATES THE CONSTRUCTION CODE LETTER.

BLOCK NO. 5
INDICATES THE PHASE MULTIPLIER GIVING THE NUMBER OF PHASES IN THE GROUP, FOLLOWED BY AN 'x'. OMITTED FOR SINGLE PHASE CIRCUITS, OR IF ALL PHASES ARE IDENTICAL.

BLOCK NO. 6
INDICATES THE NUMBER OF CONDUCTORS PER PHASE IN THE GROUP. OMITTED IF ONLY ONE CONDUCTOR PER PHASE.

BLOCK NO. 7
INDICATES THE CONDUCTOR SIZE.

BLOCK NO. 8
INDICATES THE OPERATING VOLTAGE.

BLOCK NO. 9
INDICATES THE INSULATED VOLTAGE. OMITTED IF INSULATED VOLTAGE IS SAME AS OPERATING VOLTAGE.

APPLICATION OF LINE IDENTIFICATION CODE FOR OVERHEAD PRIMARY LINES

BLOCK NUMBER	2	4	7	8
DESCRIPTION	NUMBER OF PHASES.	TYPE OF CONSTRUCTION.	GAUGE NO. AND KIND OF CONDUCTOR OR CODE NAME IN THE CASE OF ACSR AND ALUMINUM.	VOLTAGE, IN kV, NORMALLY LINE. IF SINGLE PHASE Y, TO GROUND.
EXAMPLE	**3**	**D**	**RAVEN**	**25**
EXPLANATION OF EXAMPLE	3 PHASE WIRES	DELTA CONSTRUCTION TYPE	1/0 ALUMINUM CONDUCTOR, STEEL REINFORCED	25 kV, LINE TO LINE

3D – RAVEN – 25

OTHER EXAMPLES:

V – 6HICON – 14.4 = **SINGLE PHASE #6 HICON, VERTICAL CONSTRUCTION, 14.4 kV LINE TO GROUND.**

3X – SPARROW – 25 = **3 PHASE SPARROW (#2 ACSR), ALL PHASE WIRES ON CROSSARM, 25 kV, LINE TO LINE.**

3D – 2xRAVEN, PIGEON – 25 = **3 PHASE, TWO PHASES RAVEN (1/0 ACSR), ON PHASE PIGEON (3/0 ACSR), 25 kV, LINE TO LINE.**

OVERHEAD SECONDARY LINE IDENTIFICATION

OVERHEAD SECONDARY LINES ARE DESCRIBED USING 8 BLOCKS. THESE BLOCKS ARE EXPLAINED BELOW.

1	-	2	3	4	5	+	6	7	8

BLOCK NO. 1
INDICATES IF THE CIRCUIT TYPE IS STREET LIGHT, NEUTRAL OR SECONDARY. OMITTED IF CIRCUIT TYPE IS SECONDARY.

BLOCK NO. 2
INDICATES THE CONSTRUCTION CODE LETTER. OMITTED IF CONSTRUCTION CODE IS 1R, NB, QX, DX, OR TX.

BLOCK NO. 3
INDICATES THE NUMBER OF RUNS ON CONDUCTORS PER PHASE. OMITTED IF RUNS IS '1'.

BLOCK NO. 4
INDICATES THE NUMBER OF PHASES IN THE GROUP, FOLLOWED BY AN 'x'. OMITTED IF CIRCUIT TYPE IS NEUTRAL, SINGLE PHASE OR CONSTRUCTION STYLE IS QX, DX OR TX.

BLOCK NO. 5
INDICATES THE PHASE CONDUCTOR SIZE.

BLOCK NO. 6
INDICATES THE NEUTRAL CONDUCTOR SIZE. OMITTED IF CONSTRUCTION CODE IS QX, DX, OR TX.

BLOCK NO. 7
INDICATES CONSTRUCTION STYLE FOR TYPES QX, DX, OR TX. OMITTED FOR ALL OTHER CONSTRUCTION STYLES.

BLOCK NO. 8
INDICATES THE SECONDARY OPERATING VOLTAGE.

BLOCK NO. 9
INDICATES THE INSULATED VOLTAGE. OMITTED IF INSULATED VOLTAGE IS SAME AS OPERATING VOLTAGE.

APPLICATION OF LINE IDENTIFICATION CODE FOR OVERHEAD SECONDARY LINES

BLOCK NUMBER	3	5	8
DESCRIPTION	NUMBER OF RUNS.	GAUGE NO. OF CONDUCTOR.	CONSTRUCTION STYLE
EXAMPLE	**2x**	**1/0**	**QX**
EXPLANATION OF EXAMPLE	2 RUNS OF 3 PHASE ON SINGLE PIN RACK	1/0 PHASE CONDUCTOR	QUADRAPLEX CONSTRUCTION

2x(1/0) QX

OTHER EXAMPLES:

N – 1/0 = 1/0 SECONDARY NEUTRAL

#2 TX – 480 = #2 TRIPLEX SECONDARY, 480 V.

3R2x2/0 + 2/0 = SECONDARY OF TWO 2/0 AND A 2/0 NEUTRAL ON A 3 PIN RACK.

X3xRAVEN = 3 PHASE RAVEN ON A CROSSARM.

ST – 1/0 QX = 1/0 QUADRAPLEX FOR STREET LIGHT CONTROL CIRCUIT.

CONSTRUCTION CODE LETTER DEFINITIONS

V	**-**	**INDICATES VERTICAL CONSTRUCTION. IN GENERAL, V REFERS TO SINGLE PHASE LINES WITH THE PHASE WIRE ON A SKY PIN.**
X	**-**	**INDICATES CROSSARM CONSTRUCTION WILL ALL PHASE WIRES THE CROSSARM**
XS	**-**	**SAME AS 'X', ONLY ON STEEL POLE.**
D	**-**	**DELTA, INDICATES WOOD CROSSARM CONSTRUCTION WITH THE OUTSIDE WIRES ON THE CROSSARM AND THE CENTER WIRE ON A SKY PIN**
A	**-**	**INDICATES ALLEY ARM CONSTRUCTION**
1R, NB	**-**	**INDICATES SINGLE WIRE CONSTRUCTION OF A ONE PIN RACK OR UNIMOUNT. MOSTLY URBAN USAGE**
UG	**-**	**LINE IS UNDERGROUND**
H	**-**	**H-FRAME STRUCTURE CONSTRUCTION**
HS	**-**	**H-FRAME (HIGH STRUNG) STRUCTURE CONSTRUCTION**
T	**-**	**TOWER STEEL LATTICE STRUCTURE CONSTRUCTION**
W	**-**	**WISHBONE STRUCTURE CONSTRUCTION**
G	**-**	**GULFPORT STRUCTURE (2 POLE WOOD) CONSTRUCTION**
Y	**-**	**Y STRUCTURE CONSTRUCTION**
S	**-**	**INDICATES STEEL TRI-ARM CONSTRUCTION**
$	**-**	**INDICATES MODIFIED STEEL TRI-ARM CONSTRUCTION, WHERE A CROSSARM HAS BEEN ADDED AND THE TWO OUTSIDE WIRES FASTENED TO IT, THE CENTER WIRE REMAINING ON THE TOP TRI-ARM BRACKET**
SO	**-**	**INDICATES STAND OFF INSULATOR CONSTRUCTION**
LA	**-**	**INDICATES LAMINATED ARM CONSTRUCTION**
SC	**-**	**SIDE CROSSARM, USED FOR URBAN SECONDARY**

AUXILIARY PRIMARY SYMBOLS

U - **FOR UNDER, WHEN PLACED AHEAD OF ALL OTHER SYMBOLS IN A DESIGNATION INDICATES THAT THE CIRCUIT IS STRUNG UNDER ANOTHER CIRCUIT ON THE SAME POLE.**

R - **FOR RIGHT, IN CONJUNCTION WITH DOUBLE CIRCUITS INDICATES THE RIGHT-HAND CIRCUIT WHEN LOOKING DOWN THE LINE WITH THE BACK TO THE NORMAL SOURCE OF SUPPLY.**

L - **FOR LEFT, AS 'R' ABOVE, BUT REFERS TO LEFT HAND CIRCUIT.**

CONDUCTOR DESCRIPTION ABBREVIATIONS

HICON - **HICON H.S.C. 130 3 STRAND STEEL**

(W)HICON - **HICON "WIRE WRAPPED'**

CU - **SOLID COPPER**

STR. CU - **STRANDED COPPER**

CW - **COPPERWELD OR COPPERWELD COPPER, DEPENDING ON GAUGE NO.**

ACSR - **ALUMINUM CONDUCTOR STEEL REINFORCED**

ACSR-SB - **SMOOTH BODY ACSR**

CCSR **COPPER COATED STEEL REINFORCED**

ALW - **ALLUMOWELD**

AL - **ALL ALUMINUM**

DX - **DUPLEX SECONDARY CONDUCTOR**

TX - **TRIPLEX SECONDARY CONDUCTOR**

QX - **QUADRUPLEX SECONDARY CONDUCTOR**

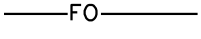
KEY TO LINE IDENTIFICATION


– O/H PRIMARY – LL=>72KV,

– O/H PRIMARY – LL=25KV, > 1 PHASE

– O/H PRIMARY – LG=14.4KV, 1 PHASE

– O/H SECONDARY



– O/H FIBRE OPTICS

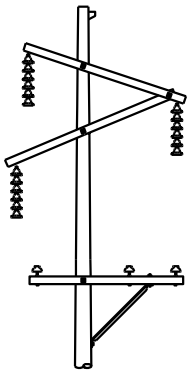
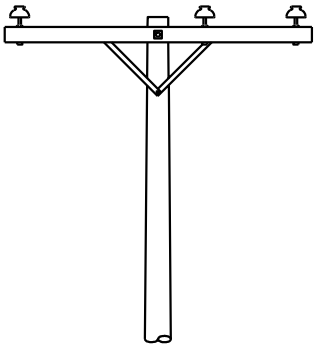
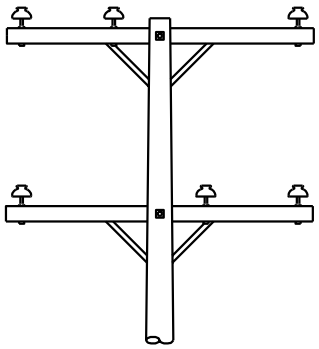
– O/H STREET LIGHT

CODE NAMES FOR ACSR AND ALUMINUM CONDUCTORS

HERRING – #6 ACSR–SB TYPE 200%
PICKEREL – #2 ACSR–SB TYPE 200%
SPARROW – #2 ACSR
ROBIN – #1 ACSR
RAVEN – 1/0 ACSR
QUAIL – 2/0 ACSR
PIGEON – 3/0 ACSR
PENGUIN – 4/0 ACSR
BRAHMA – 203.2 KCMIL 16/19 ACSR
PARTRIDGE – 266.8 KCMIL 26/7 ACSR
LINNET – 336.4 KCMIL 26/7 ACSR
PELICAN – 477 KCMIL 18/1 ACSR
HAWK – 477 KCMIL 26/7 ACSR
GROSBEAK – 636 KCMIL 26/7 ACSR
DRAKE – 795 KCMIL 26/7 ACSR
CURLEW – 1033.5 KCMIL 54/7 ACSR
IRIS – #2 AL
ASTER – 2/0 AL
PHLOX – 3/0 AL
OXLIP – 4/0 AL
DAISY – 266.8 KCMIL AL
TULIP – 336.4 KCMIL AL
COSMOS – 477 KCMIL AL

SaskPower – DISTRIBUTION STANDARDS			
APPROVAL	DESIGN CHK.	DRN. DC CHKD. FTK	CODE FOR LINE IDENTIFICATION
		86-09-23	
DATE OF ISSUE 2010-04-21		DRAWING NO. A-02-01 SHEET 7 of 8	REV. A

EXAMPLES

	U3A–RAVEN–25	3Ø – 3 WIRES ON ALLEY ARM CONSTRUCTION STRUNG UNDER ANOTHER CIRCUIT. CONDUCTOR RAVEN – 25,000 VOLTS LINE TO LINE.
	V–6HICON–14.4	RURAL CONSTRUCTION 1Ø WIRE. CONDUCTOR #6 HI–CON STRANDED STEEL. VOLTAGE 14,400 VOLTS LINE TO GROUND.
	3X–RAVEN–25	3Ø, 3 WIRES, ALL ON CROSSARM CONDUCTOR RAVEN 25,000 VOLTS LINE TO LINE.
	U3X–RAVEN–25	3Ø – 3 WIRES ON CROSSARM STRUNG UNDER ANOTHER CIRCUIT. CONDUCTOR RAVEN 25,000 VOLTS LINE TO LINE.

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. DC	DESIGN CHK.	SAFETY APP.	APPROVAL	CODE FOR LINE IDENTIFICATION
CHKD. FTK				
DATE 86-09-23	DATE	DATE	DATE	
DATE OF ISSUE 2007–04–16		DRAWING NO. A–02–01	SHEET 8 of 8	REV. A

SPC/AUTODRAFT

KEY TO LINE IDENTIFICATION

– 3ø O.H. PRIMARY

– 1ø O.H. PRIMARY

– O.H, SECONDARY, O/H STREET LIGHT SECONDARY, AND O/H SERVICES

POLES

– DISTRIBUTION POLE

– TRANSMISSION POLE

– STEEL STANDARD

MISCELLANEOUS LIGHT SYMBOLS

– ONE POLE STREET LIGHT RELAY

– TWO POLE STREET LIGHT RELAY

– PHOTO CELL

STATION COMPONENTS

– CIRCUIT BREAKER

– CIRCUIT SWITCHER

– NEUTRAL IMPEDANCE – RESISTOR

– NEUTRAL IMPEDANCE – REACTOR

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METERING POINTS

■ – METERING POINT (COMMERCIAL & RESIDENTIAL)

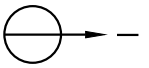
□ – METERING POINT (PRIMARY)

STREET LIGHTS

 – ALL STREET LIGHTS USE THE SAME SYMBOL

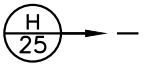
SYSTEM PROTECTION DEVICES

RECLOSER

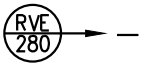


– INDICATE TYPE IN TOP HALF OF CIRCLE WITH RATING, (AMPS), IN BOTTOM HALF
– ARROW INDICATES DIRECTION OF FEED
– GIS SYMBOLS DON'T SHOW TYPE/SIZE OR AN ARROW ANYMORE THIS IS JUST KEPT IN THE CSM FOR CLARIFICATION ON SOME DRAWING

EXAMPLES



– 25 AMP TYPE "H" O.C.R.



– R.V.E. WITH 280 AMP PHASE TRIP

FUSES

– TYPE "T" OR TYPE "X" FUSE LINK; 12 AMP FUSE INDICATED

– TYPE "T" OR TYPE "X" FUSE LINK HEAVY; 12 AMP FUSE INDICATED

– CUTOUT WITH SOLID FUSE LINK

– TYPE "N" FUSE LINK; 10 AMP FUSE INDICATED

– TYPE "N" FUSE LINK HEAVY; 10 AMP FUSE INDICATED

FUSES AT ALTERNATE DISPLAY SCALES

 – FUSE AT CONNECTIVITY SCALE

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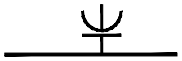
APPARATUS

— POLE MOUNT TRANSFORMER INSTALLATION
WITH KVA SIZE (50 KVA SHOWN)

— PLATFORM MOUNT TRANSFORMER INSTALLATION

— TRANSFORMER BANK – GROUND MOUNT

— REGULATOR INSTALLATION; POINT TOWARDS LOAD (RURAL)



— CAPACITOR INSTALLATION

— SOLID BLADE DISCONNECT OR G.O.P.T. SWITCH

N/C — NORMALLY CLOSED SWITCHES ARE NOT ANNOTATED
ALTERNATE DISPLAY SCALE USES RED DOT

N/O — INDICATES SWITCH NORMALLY CLOSED
ALTERNATE DISPLAY SCALE USED GREEN DOT

— AUTO TRANSFORMER INSTALLATION

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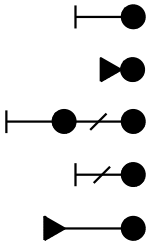
ANCHORING



— DOWN GUY

— PUSH BRACE

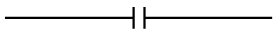
— OVERHEAD GUY AND ANCHOR

— SIDEWALK ANCHOR

— ROCK ANCHOR

MISCELLANEOUS

— GROUND



— OPEN POINT

— CHANGE OF CONDUCTOR AND/OR TYPE OF CONSTRUCTION INDICATED BY ARROWHEADS

— LOAD POINT

— GENERATING SOURCE

— STATION – SUBSTATION OR SWITCHING

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APPROVAL L.MOEN	DESIGN CHK. A.UHREN	DRN. D.REDEKOPP CHKD. 2016-10-04	SYMBOLS	
DATE OF ISSUE 2016/11/08		DRAWING NO. A-02-02	SHEET 4 of 4	REV. B

SPC/AUTODRAFT

LENGTH

FROM IMPERIAL TO METRIC	25.4 x INCHES = MILLIMETRES
	0.305 x FEET = METRES
	1.61 x MILES = KILOMETRES
FROM METRIC TO IMPERIAL	0.0394 x MILLIMETRES = INCHES
	3.281 x METRES = FEET
	0.621 x KILOMETRES = MILES

AREA

FROM IMPERIAL TO METRIC	645.2 x SQUARE INCHES = SQUARE MILLIMETRES
	0.093 x SQUARE FEET = SQUARE METRES
	0.836 x SQUARE YARDS = SQUARE METRES
	2.59 x SQUARE MILES = SQUARE KILOMETRES
	0.405 x ACRES = HECTARES
FROM METRIC TO IMPERIAL	0.00155 x SQUARE MILLIMETRES = SQUARE INCHES
	10.75 x SQUARE METRES = SQUARE FEET
	1.196 x SQUARE METRES = SQUARE YARDS
	0.386 x SQUARE KILOMETRES = SQUARE MILES
	2.47 x HECTARES = ACRES

VOLUME

FROM IMPERIAL TO METRIC	16387 x CUBIC INCHES = CUBIC MILLIMETRES
	16.387 x CUBIC INCHES = CUBIC CENTIMETRES
	0.0283 x CUBIC FEET = CUBIC METRES
	0.765 x CUBIC YARDS = CUBIC METRES
	4.546 x GALLONS = LITRES
FROM METRIC TO IMPERIAL	0.000061 x CUBIC MILLIMETRES = CUBIC INCHES
	0.061 x CUBIC CENTIMETRES = CUBIC INCHES
	35.33 x CUBIC METRES = CUBIC FEET
	1.307 x CUBIC METRES = CUBIC YARDS
	0.22 x LITRES = GALLONS

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS

DRN. DC	DESIGN CHK.	SAFETY APP.	APPROVAL	METRIC CONVERSION
CHKD. FTK				
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DATE OF ISSUE 87-02-01	DRAWING NO. A-02-03	SHEET 1 of 2	REV. 0

SPC/AUTODRAFT

MASS

FROM IMPERIAL TO METRIC	454 x POUNDS = GRAMS
	0.454 x POUNDS = KILOGRAMS
	0.907 x TONS = TONNES
FROM METRIC TO IMPERIAL	0.0022 x GRAMS = POUNDS
	2.20 x KILOGRAMS = POUNDS
	1.10 x TONNE = TONS

FORCE

FROM IMPERIAL TO METRIC	4.448 x POUNDS FORCE = NEWTONS
FROM METRIC TO IMPERIAL	0.225 x NEWTONS = POUNDS FORCE

NOTE: FORCE (WEIGHT) = MASS x ACCELERATION (DUE TO GRAVITY)
$N = kg \times m/s^2$ OR $lbf = lb \times ft/s^2$
GRAVITATIONAL ACCELERATION = $9.81 m/s^2$ OR $32.2 ft/s^2$

VELOCITY

FROM IMPERIAL TO METRIC	0.305 x FEET PER SECOND = METRES PER SECOND
	1.61 x MILES PER HOUR = KILOMETRES PER HOUR
FROM METRIC TO IMPERIAL	3.28 X METRES PER SECOND = FEET PER SECOND
	0.621 x KILOMETRES PER HOUR = MILES PER HOUR

PRESSURE

FROM IMPERIAL TO METRIC	6.895 x POUNDS FORCE PER SQUARE INCH = KILOPASCALS
FROM METRIC TO IMPERIAL	0.145 x KILOPASCALS = POUNDS FORCE PER SQUARE INCH

TEMPERATURE

FROM IMPERIAL TO METRIC	(°F−32) x 0.556 = °C (DEGREE CELSIUS)
FROM METRIC TO IMPERIAL	(°C x 1.8) + 32 = °F (DEGREE FAHRENHEIT)

SASKATCHEWAN POWER CORP. — DISTRIBUTION ENGINEERING STANDARDS				
DRN. DC	DESIGN CHK.	SAFETY APP.	APPROVAL	METRIC CONVERSION
CHKD. FTK				
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SPC/AUTODRAFT

UNITS OF IMPERIAL MEASURE

lb = POUNDS (MASS)
tn = TON

lbf = POUND (FORCE)
psi = POUND (FORCE) PER SQUARE INCH

UNITS OF METRIC MEASURE

mm = MILLIMETRES
cm = CENTIMETRES
m = METRE
km = KILOMETRES
m^2 = SQUARE METRE
m^3 = CUBIC METRE
m/s = METRE/SECOND
ha = HECTARE = 10,000 m^2

L = LITRE = 1000 cm^3
mL = MILLILITRE
g = GRAM
mg = MILLIGRAM
kg = KILOGRAM
t = TONNE = 1000 kg
N = NEWTON
Pa = PASCAL = N/m^2
kPa = KILOPASCAL = kN/m^2

VARIOUS

SIN = SINE OF AN ANGLE
COS = COSINE OF AN ANGLE
TAN = TANGENT OF AN ANGLE
AWG = AMERICAN WIRE GUAGE
DIA = DIAMETER
kcmil = THOUSAND CIRCULAR MILS (FORMERLY MCM)
HT = HEIGHT

SASKATCHEWAN POWER CORP. – DISTRIBUTION ENGINEERING STANDARDS					
DRN. DC	DESIGN CHK.	SAFETY APP.	APPROVAL	MISCELLANEOUS ABBREVIATIONS	
CHKD. FTK					
DATE 86-10-23	DATE	DATE	DATE		
DATE OF ISSUE 87-02-01		DRAWING NO. A-02-04	SHEET 1 of 1		REV. 0