			<u>SIGI</u>	NS & MARKE	RS			
DRAWING NUMBER	SHT.			DRAWING TIT	LE		DWG REV.	BOM REV.
A-30-00	1 – 1	GENERAL INF	ORMATION				Α	
A-30-01	1 – 4	DANGER SIGN	NS - INSTALLAT	ION PRACTICE			0/A/A/B	
A-30-02	1 – 3	STANDARD A	ERIAL CABLE N	MARKERS			F/C/0	
A-30-03	1 – 2	STANDARD F	OR OBSTRUCTI	ON MARKINGS F	OR POWER POL	ES	В	0
A-30-04	1 – 1	CUSTOMER IN	NSTALLED GRO	UND RESISTOR			В	
A-30-05	1 – 2	POLEMOUNT	APPARATUS LA	ABELING			D	В
A-30-06	1 – 2	REFLECTIVE	POLE STRIPES				-	-
		Sa	sk <b>Power</b> -	DISTRIBUTIO	ON STANDARD	S		
					N STANDARD	S		
			DESIGN CHK	DRN. <b>PP</b>				
	L M	MOEN	P PATEL	CHKD. LM		INDEX		
	D^	TE OF ISSUE:	2021-08-16	<b>2021-05-04</b> DRAWING NO: A	<u> </u> ∧_30_INDE∀	SHEET 1 of 1	-	REV. <b>J</b>

# SIGNS & MARKERS

ALL SIGNS AND MARKERS USED IN THE OVERHEAD DISTRIBUTION SYSTEM ARE NOT INCLUDED IN THIS SECTION. INCLUDED ARE THOSE OF GREATEST IMPORTANCE, COMMON USAGE, OR THOSE REQUIRING SPECIAL INSTALLATION OR APPLICATION GUIDELINES.

GUY GUARDS ARE INCLUDED IN THE GUYING & ANCHORING SECTION A-32-XX.

A POLE IDENTIFICATION NUMBER TAG IS TO BE INSTALLED ON ALL NEW OR REPLACED POLES AS SHOWN IN A-30-05.

	SaskPower - DISTRIBUTION STANDARDS							
DRN.	DESIGN CHK.	APPRO	VAL					
CHKD.				GENERAL INFORMATION				
DATE 99/10/27	DATE	DATE						
DATE OF ISSUE			DRAWING NO.	A-30-00	SHEET 1 OF 1	REV.	Α	

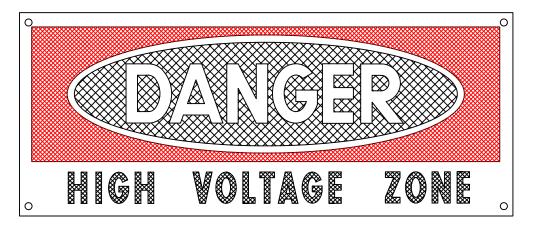
#### DANGER SIGNS

IT IS THE INTENTION OF THESE SIGNS TO PROVIDE ADEQUATE WARNING OF THE DANGER OF HIGH VOLTAGE TO LIFE AND LIMB IN AND AROUND ENERGIZED FACILITIES OF THE S.P.C. THE DIRECTION OF THE WARNING IS TO THE PUBLIC AT LARGE AND S.P.C. DIRECTLY EMPLOYED AND CONTRACT LABOUR.

THE METHOD EMPLOYED TO PROVIDE THE WARNING IS THROUGH THE USE OF CLEARLY LETTERED SIGNS LARGE ENOUGH TO READ FROM A SAFE DISTANCE.

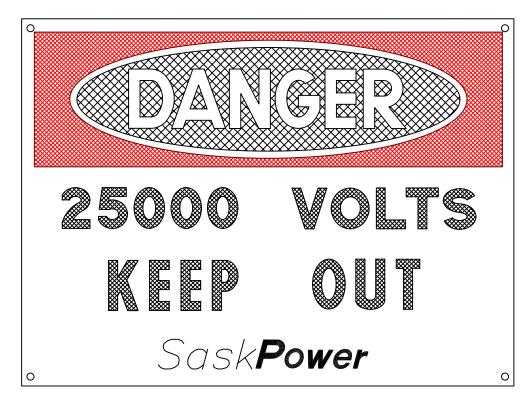
- 1. THE FOLLOWING CONDITIONS SHOULD BE PREVALENT IN ANY SITUATION:
  - (a) —THAT ALL FENCED AND HOUSE SUBSTATION, REGULATORS AND SIMILAR ENERGIZED FACILITIES BE LOCKED SECURELY ENSURING THAT NO ACCESS CAN BE GAINED AT ALL TIMES.
  - (b) —THAT SIGNS ARE MOUNTED AT A HEIGHT OF 1.5m FROM GRADE LEVEL.
  - (c) —THAT SIGNS ARE PERMANENTLY MOUNTED ON FENCES EVERY 13m OF FENCE LENGTH.
  - (d) -AT LEAST ONE SIGN SHALL APPEAR ON EACH SIDE OF A BUILDING OR OF THE PERIMETER OF FENCE.
  - (e) —A SIGN SHALL BE MOUNTED IN THE IMMEDIATE VICINITY OF EACH LOCKING POINT OF A GATE OR DOOR.
  - (f) -A SIGN SHALL BE PERMANENTLY MOUNTED ON: POLES WHERE CONDUCTORS, CABLES, CABLE IN CONDUIT, GROUND WIRES, SWITCHES, SWITCH HANDLES ETC. ARE ACCESSIBLE FROM GROUND LEVEL.
    - -POLES OF ALL NON-FENCED PLATFORM MOUNTED EQUIPMENT, THE SIGN SHALL BE ON THE INSIDE FACE OF  $\underline{\sf EACH}$  POLE.
    - -ALL GUYED POLES.
  - (g) -THAT SIGNS ARE MOUNTED ADJACENT TO THE CLIMBING QUADRANT OF POLE.
- 2. THE FOLLOWING IS IN ADDITION TO 1 ABOVE:
  - (a) —A SIGN SHALL BE PERMANENTLY MOUNTED ON ALL URBAN UNDERGROUND CABLE TAKE—OFF POLES, DIRECTLY ABOVE GUARD END, IN THE NEUTRAL SPACE LOCATION.
  - (b) —A SIGN SHALL BE PERMANENTLY MOUNTED ON ALL FARM TRANSFORMER POLES, DIRECTLY ABOVE THE SERVICE HEAD (DRIP LOOP) LOCATION OF THE LOAD SERVICE CABLE ON THE CUSTOMER ATTACHMENT POINT.

	SASKATCHEWAN POWER CORP. — DISTRIBUTION ENGINEERING STANDARDS							
DRN. CHKD.	B		SAFETY APP.	APPROVAL	DANGER SIGNS INSTALLATION PRACTICE			
DATE	86-11-26	DATE	DATE	DATE	INCONCENTION TRANSPORT			
DATE	OF ISSUE	87-02-01		DRAWING NO. A	A-30-01 SHEET 1 OF 4 REV. 0			



THE FOLLOWING SIGN SHALL BE INSTALLED ON FENCED FACILITIES OR BUILDINGS.

CODE 05-640-025 25000 V



#### NOTE:

- 1. USE 2 1/2" NAILS (CODE 7-63-10) TO ATTACH SIGNS TO WOOD POLES.
- 2. USE WIRE STRANDS TO ATTACH SIGNS TO CHAIN LINK FENCES.

		S	<u>ask<b>Power</b></u>	- DISTRIBUTION STANDARDS		STANDARDS		
DRN.	B	DESIGN CHK.	SAFETY APP.	APPROVAL		DANCED CIONS		
CHKD	. FTK					DANGER SIGNS INSTALLATION PRACTICE		
DATE	86-12-03	DATE	DATE	DATE	INSTALLATION PRACTICE			
DATE	OF ISSUE	87-12-01		DRAWING NO. A	-30-01	SHEET 2 OF 4 REV. A		

# GUIDELINE FOR PLACEMENT OF SIGNS SASKPOWER CODE 05-648-360

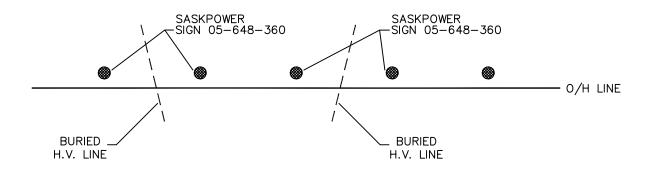
\* THE FOLLOWING APPLIES IN RURAL AREAS ONLY.

THIS DANGER SIGN IS USED TO DESIGNATE THE LOCATION OF THE CROSSING OF BURIED HIGH VOLTAGE CABLES. THIS IS TO ALLOW GUY AND ANCHORS TO BE INSTALLED FOR TAPS AND SIDE GUYS WITHOUT HITTING THE BURIED CABLES.

THE SIGNS SHOULD BE INSTALLED 1.5m ABOVE GRADE AND FACE TOWARDS THE BURIED FACILITY. IT IS MORE IMPORTANT THAT THE SIGN NOT BE IN THE CLIMBING QUADRANT OF THE POLE AND NOT INTERFERE WITH EQUIPMENT.

A STANDARD "DANGER" SIGN (05-640-000) IS STILL REQUIRED ACCORDING TO ITS OWN RULES.

#### **EXAMPLE:**

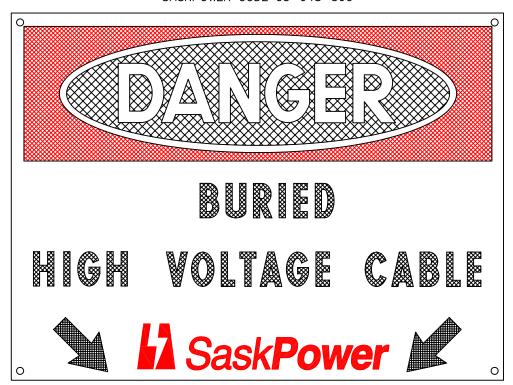


SEE DWG. A-30-01 SHT.4 FOR DESCRIPTION OF THIS SIGN.

SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

	SaskPower - distribution standards								
DRN. AJ	DESIGN CHK.	APPRO'	VAL		DANICED CICNIC				
CHKD.				DANGER SIGNS INSTALLATION PRACTICE					
DATE 97-09-11	DATE	DATE			1101/125/11014 110/01	1102			
DATE OF ISSUE	•		DRAWING NO.	A-30-01	SHEET 3 OF 4	REV. A			

#### SASKPOWER CODE 05-648-360

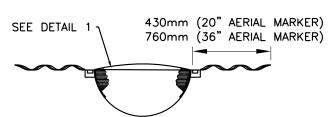


# NOTE:

- 1. SEE DWG. A-30-01 SHT.3 FOR GUIDELINES FOR THE PLACEMENT OF THESE TWO SIGNS. 2. USE SCREWS ( CODE 7-69-62 ) TO ATTACH SIGNS TO WOOD POLES.

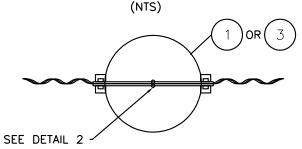
	Sask <b>Power</b> - distribution standards								
DRN.	DESIGN CHK.	APPRO	APPROVAL DANGER SIGNS						
CHKD.				INSTALLATION PRACTICE					
DATE 97-09-11	DATE	DATE							
DATE OF ISSUE	DATE OF ISSUE DRAWING NO. A-30-01 SHEET 4 OF 4 REV. B								

	BILL OF MATERIALS							
NO.	QTY	CODE	DESCRIPTION					
1	1	5380050	20" ORANGE AERIAL MARKER BALL C/W HARDWARE					
1	1	5380051	20" WHITE AERIAL MARKER BALL C/W HARDWARE					
2	1	5380053	PREFORM FOR AERIAL MARKER 1/4" OHSW					
2	1	5380054	PREFORM FOR AERIAL MARKER 5/16" OHSW					
2	1	5380056	PREFORM FOR AERIAL MARKER 1/0 ACSR					
2	1	5380057	PREFORM FOR AERIAL MARKER 3/0 ACSR					
2	1	5380058	PREFORM FOR AERIAL MARKER 4/0 ACSR					
2	1	5380067	PREFORM FOR AERIAL MARKER ON 1/2" OHSW					
2	1	5380070	PREFORM FOR AERIAL MARKER 336.4 KCMIL AL TULIP					
2	1	5380071	PREFORM FOR AERIAL MARKER 477 KCMIL AL COSMOS					
3	1	5380060	36" ORANGE AERIAL MARKER BALL C/W HARDWARE					
3	1	5380061	36" WHITE AERIAL MARKER BALL C/W HARDWARE					
4	1	5380065	PREFORM FOR 36" AERIAL MARKER ON HAWK					
4	1	5380066	PREFORM FOR 36" AERIAL MARKER ON DRAKE					

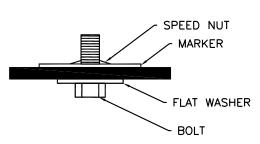


OR( 4 PLAN VIEW SIDE VIEW

LOWER HALF OF MARKER BALL WITH PREFORM

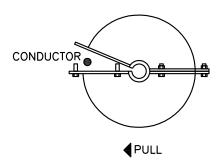


**DETAIL 1: PREFORM DETAIL** (NTS)



INSTALLED MARKER BALL (NTS)

DETAIL 2: CONNECTING BOLT ON FLANGE OF MARKER BALL (NTS)

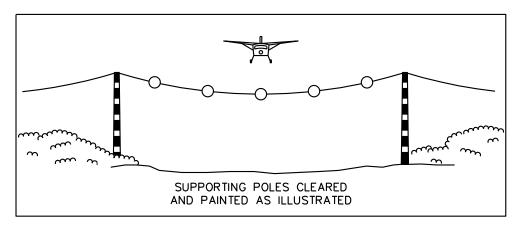


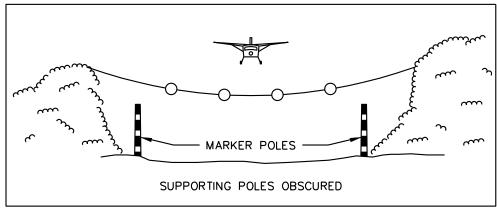
# NOTES:

- 1. INSTALL 20" AERIAL MARKERS 5380050 AND 5380051 ON LINES UP TO 115kV, AND 36" AERIAL MARKERS 5380060 AND 5380061 ON LINES UP TO 500kV.
- 2. PREPARE 3 WEEKS LEAD TIME FOR NON-STOCK PREFORMS.
- PERIMETER LIP THICKNESS IS 0.125".
  BOLT THE MARKER HALVES TOGETHER ALONG ONE SIDE OF THE MARKER ASSEMBLY. FLEX THE UNSECURED SIDE OF THE MARKER OVER THE CONDUCTOR AND PULL TO THE CENTER OF THE MARKER. WIND THE PREFORMS AROUND THE CONDUCTOR. SECURE THE REMAINING 4 BOLT POSITIONS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED SCALE: N.T.S.

	SaskPower - distribution standards								
APPROVAL DESIGN CHK. DRN. E.GOTANA STANDARD AERIAL									
L.MOEN	A.UHREN	CHKD.	CABLE MARKER BALLS						
		2017-10-03							
DATE OF ISSUE	2017-11-03	DRAWING NO. A	A-30-02 SHEET 1 of 3 REV. F						





20" AERIAL MARKERS: MAXIMUM SPACING IS 30 METRES 36" AERIAL MARKERS: MAXIMUM SPACING IS 45 METERS

20" Aerial Markers	< 90 m	90m - 120m	120m - 150m	150m - 180m	180m - 210m	210m - 240m	240m - 270m
Numbers of Markers	2	3	4	5	6	7	8
Spacing	S/3	S/4	S/5	S/6	S/7	S/8	S/9
Colour Pattern	0 - 0	0 - 0 - 0	0-0-0-0	0-W-0-W-0	O-W-O-O-W-O	O-W-O-W-O-W-O	O-W-O-W-W-O-W-O

36" Aerial Markers	< 135 m	135m - 180m	180m - 225m	225m - 270m
Numbers of Markers	2	3	4	5
Spacing	S/3	S/4	S/5	S/6
Colour Pattern	0 - 0	0 - 0 - 0	0-0-0-0	O-W-O-W-O

#### NOTES:

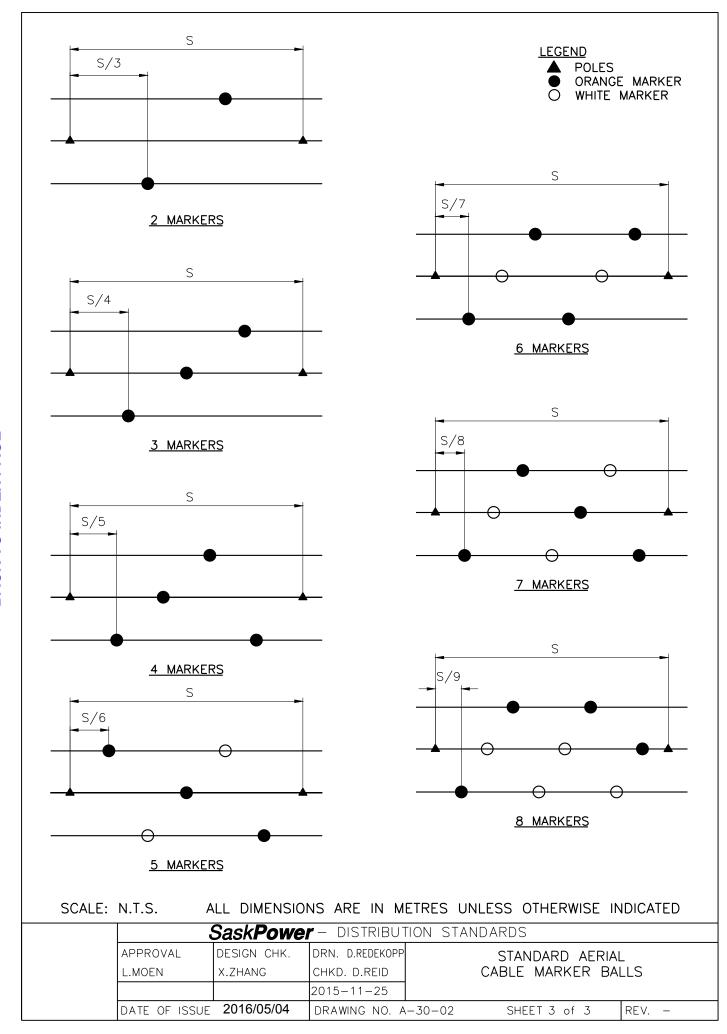
S: TOTAL SPAN LENGTH O: ORANGE MARKER

W: WHITE MARKER

- FOR ANY SPAN THAT IS GREATER THAN THE MAXIMUM SPAN FROM THE TABLE, PLEASE CONTACT THE STANDARDS GROUP. SEE DIAGRAM ON THE NEXT PAGE.
- 2. FOR SPANS GREATER THAN 180 METRES AERIAL MARKERS NEAREST THE POLES SHALL BE ORANGE ALTERNATING WITH WHITE MARKERS AT 45 METRE INTERVALS.

## SCALE: N.T.S. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE INDICATED

	SaskPower - distribution standards							
APPROVAL	DESIGN CHK.	DRN. D.REDEKOPP	STANDARD AERIAL					
L.MOEN	X.ZHANG	CHKD. D.REID	CABLE MARKER BALLS					
		2015-11-25						
DATE OF ISSUE	2016/05/04	DRAWING NO. A	-30-02 SHEET 2 of 3 REV	V. C				



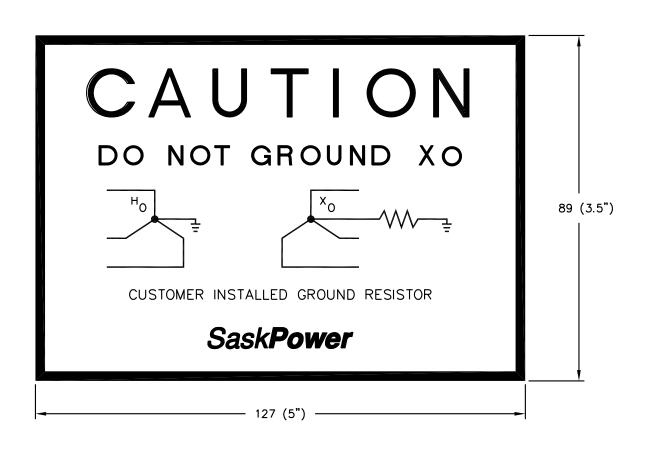
			BILI	OF MATER	AL					
ITEM NO.	CODE NO.	QUANTITY			DESCRIP <sup>*</sup>	ΓΙΟΝ				
VEXAR	5 378 006	0.4 ROLL	ORANGI	E VEXAR – 36"	x 62' PER ROI	_L				
VEXAR	5 378 008	0.6 ROLL	WHITE \	/EXAR - 36" x 6	2' PER ROLL					
PAINT	13 057 364	1	ORANG	PRANGE INTERNATIONAL PAINT (4 LITER CAN)						
NAILS	-	0.4 KG	32mm (1	1/4") GALVAN	IZED ROOFIN	IG NAILS (APPROX.90)				
	APPROVA		2. I	CLASS 3 - 5) NAILS AND OR	ANGE INTERN		LES			
	M. ERET		BAILEY	VEYAR NETTING						
	WI. EREI	L. C	AILE (	<b>2013-12-17</b>	01	ON POWER LINE POLES				
	<del></del>	SSUE: 201	14/03/21	DRAWING NO:	A 20 02	SHEET 1 OF 2	REV. 0			

		POLE LENGTH IN METRES (FT)						
POLE	COLOR	9.1	10.7	12.2	13.7	15.2	16.8	18.3
<del></del>		(30')	(35')	(40')	(45')	(50')	(55')	(60')
	ORANGE INTERNATIONAL PAINT	1,1 (3'-7")	1.3 (4'-3")	1.5 (4'-11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'-11")	2.3 (7'-7")
	WHITE VEXAR	1.1 (3'-7")	1.3 (4'-3")	1.5 (4'-11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'-11")	2.3 (7'-7")
	ORANGE VEXAR	1.1 (3'-7")	1.3 (4'-3")	1.5 (4'-11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'-11")	2.3 (7'-7")
	WHITE VEXAR	1,1 (3'-7")	1.3 (4'-3")	1.5 (4'-11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'-11")	2.3 (7'-7")
	ORANGE VEXAR	1.1 (3'-7")	1.3 (4'-3")	1.5 (4'-11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'-11")	2.3 (7'-7")
	WHITE VEXAR	1,1 (3'-7")	1.3 (4'-3")	1.5 (4'-11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'-11")	2.3 (7'-7")
	ORANGE INTERNATIONAL PAINT	1.1	1.3	1.5 (4'–11")	1.7 (5'-7")	1.9 (6'-3")	2.1 (6'–11")	2.3 (7'-7")
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								

#### NOTE:

- 1. THE TOP AND BOTTOM BANDS SHOULD BE PAINTED INTERNATIONAL ORANGE SINCE VEXAR IS FLAMMABLE.
- 2. VEXAR STRIPS SHOULD BE USED ON THE REST OF THE BANDS.
- 3. ORANGE AND WHITE STRIPS ARE TO BE EQUAL WIDTH.
- 4. OVERLAY SUCCESIVE STRIPS BY APPROXIMATELY 25mm (1").
- 5. EACH STRIP IS TO BE ONE-SEVENTH THE POLE HEIGHT ABOVE GROUND.
- 6. VEXAR NETTING SHOULD BE APPLIED AS DOUBLE THICKNESS.
- 7. WRAP THE VEXAR AROUND THE POLE AND USE 32mm GALVANIZED ROOFING NAILS TO NAIL THE TRAILING EDGE TO THE POLE.
- 8. NAIL EACH SIDE EVERY 25mm(1") AND OTHER AREAS 150mm(6") IN BOTH DIRECTIONS.

SaskPower - distribution standards								
APPROVAL	DESIGN CHK.	DRN. DC						
M. ERETH	L. BAILEY	CHKD.		NDARD FOR OBSTR				
		2013-08-22	MA MA	RKING ON POWER	POLES			
DATE OF ISSUE	2014/03/21	DRAWING NO. A	-30-03	SHEET 2 of 2	REV. B			



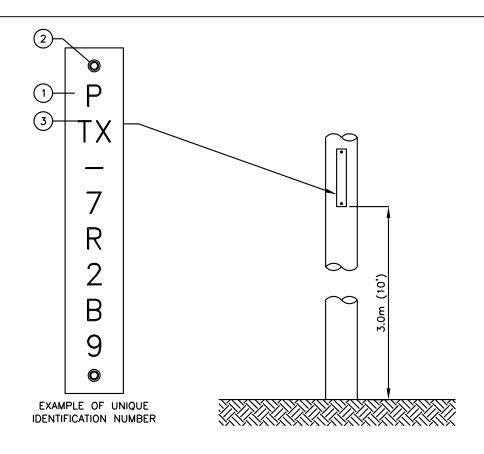
## SIGN USEAGE & INSTALLATION

- 1. THIS SIGN IS USED TO IDENTIFY TO PERSONNEL, THAT THE SECONDARY NEUTRAL IS NOT TO BE CONNECTED TO GROUND.
- 2. THE SIGN IS TO BE INSTALLED NEAR THE  ${\sf X}_{\sf O}$  BUSHINGS, CONNECTION POINT ON THE APPARATUS, AND THE METERING POINT, AS APPLICABLE.
- 3. THE SIGN IS TO BE USED WHERE A CUSTOMER HAS INSTALLED A RESISTOR BETWEEN THE SECONDARY NEUTRAL AND GROUND.
- 4. THE GROUND RESISTOR ON THIS CONNECTION IS USED BY THE CUSTOMER, FOR FAULT DETECTION.
- 5. AN INSULATED CONDUCTOR MUST BE USED TO CONNECT  $\mathbf{x}_{0}$  TO THE CUSTOMER'S NEUTRAL BUS.
- 6. WHEN METERING ON SECONDARY SIDE, METERING TO BE  $3\emptyset 3W$ .
- 7. STOCK CODE No. 05-646-585.

## SCALE: N.T.S. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED

3	SaskPower - distribution standards							
APPROVAL	DESIGN CHK.	DRN. E.GOTANA	CUSTOMER INSTALLED					
L.MOEN	A.UHREN	CHKD.	GROUND RESISTOR					
		2017-03-16						
DATE OF ISSUE	2017/05/03	DRAWING NO. A	A-30-04 SHEET 1 of 1 REV. B					

	BILL OF MATERIAL							
ITEM NO.	CODE NO.	QUANTITY			DESCRIPTIO	N		
1	05 640 006	1	SIGN - I	RI ANK – REFI	ECTIVE - 3"X18"			
2	7 69 64	0.02			2" HEX HEAD (1			
3	05 638 32X	3		R – DECAL BLA	•	oo/BOX)		
3	05 638 32A 05 638 329	1				2"		
3	05 638 4XX	5		SYMBOL – DECAL "DASH" BLACK 1 1/2"  LETTER – DECAL BLACK 1 1/2"				
				FOR A COMPLE LETTERS, NUM REFER TO SHE	BERS AND OTH	OCK CODES FOR ER ACCESSORIES,		
					ON STANDARD	S		
	APPROV		SIGN CHK					
	L. MOE	N D. I	DONAIS	CHKD.	POLEMOUN	T APPARATUS LABELING		
			<u> </u>	2018-11-09				
	DATE OF	ISSUE: ŒFJI	€FE€G	DRAWING NO:	A-30-05	SHEET 1 OF 2 REV. B		



SPC CODE	DESCRIPTION
05 638 320	NUMBER "0"
05 638 321	NUMBER "1"
05 638 322	NUMBER "2"
05 638 323	NUMBER "3"
05 638 324	NUMBER "4"
05 638 325	NUMBER "5"
05 638 326	NUMBER "6"
05 638 327	NUMBER "7"
05 638 328	NUMBER "8"
05 638 329	SYMBOL "-"
05 638 450	LETTER "A"
05 638 451	LETTER "B"

SPC CODE	DESCRIPTION
05 638 452	LETTER "C"
05 638 453	LETTER "D"
05 638 454	LETTER "E"
05 638 455	LETTER "F"
05 638 456	LETTER "G"
05 638 457	LETTER "H"
05 638 458	LETTER "I"
05 638 459	LETTER "J"
05 638 460	LETTER "K"
05 638 461	LETTER "L"
05 638 462	LETTER "M"
05 638 463	LETTER "N"

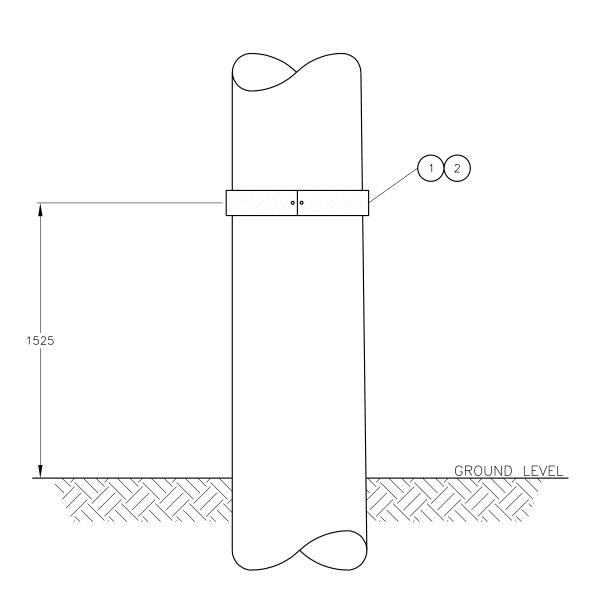
SPC CODE	DESCRIPTION
05 638 465	LETTER "P"
05 638 466	LETTER "Q"
05 638 467	LETTER "R"
05 638 468	LETTER "S"
05 638 469	LETTER "T"
05 638 470	LETTER "U"
05 638 471	LETTER "V"
05 638 472	LETTER "W"
05 638 473	LETTER "X"
05 638 474	LETTER "Y"
05 638 475	LETTER "Z"

NOTE:
1. TAGS ARE TO FACE ROAD.

# APPROVED FOR CONSTRUCTION

SaskPower - distribution standards								
APPROVAL	DESIGN CHK.	DRN.E.GOTANA						
L.MOEN	D.DONAIS	CHKD.	POLEMOUNT APPARATUS LABELING					
		2018-12-12						
DATE OF ISSUE	G€FJË€FË€G	DRAWING NO. A	A-30-05 SHEET 2 of 2 REV. D					

	BILL OF MATERIAL						
ITEM NO.	CODE NO.	QUANTITY			DESCRIPTION	l	
1	7 69 64	0.04	SCREW	– WOOD – #14	X 2" – HEX HEAD	) (100/BOX)	
2	05 640 006	2	SIGN – E	BLANK – REFLE	CTIVE - 3" X 18"	•	
	1						
				,	N STANDARDS	3	
	APPROVA L MOEN		SIGN CHK ATEL	DRN. <b>PP</b> CHKD. <b>LM</b>	REFLEC	TIVE POLE STRIP	ES
	L MOLIN F FAIEL			2021-05-04			
	DATE OF	ISSUE: 202	1-08-16	DRAWING NO:	A-30-06	SHEET 1 OF 2	REV



## NOTES:

- 1. DO NOT COVER UP ANY OTHER POLE MARKINGS.
- 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

# SCALE: N.T.S.

.,				
		Sask <b>Powe</b> l	r- distribut	TION STANDARDS
	APPROVAL	DESIGN CHK.	DRN.D.REDEKOPP	
	L.MOEN	P.PATEL	CHKD.	REFLECTIVE STRIPES
			2021-02-01	
	DATE OF ISSUE	2021-08-16	DRAWING NO. A	A-30-06 SHEET 2 of 2 REV. <b>0</b>