

Bill of Material (BOM)

Black & Veatch	Date	1/5/2024
858-255-8260		
leeam@bv.com	Site Name	Keaton
		Missouri

Product Category	Manufacture Part #	Description	UOM	QTY
Proposed Tower Structure			EA	Owner Furnish
	120' Monopole	120' Sabre Monopole	EA	1
Outdoor Network Cabinet (ONC)			EA	Owner Furnish
	CUBE-SS4C2285Q3	Charles LTE Cabinet Single Bay which includes: Trilogy SeriesPower Plant HE 48VDC Elitek Flatpack2 Roxtec Hybrid Cable Entry Panel For PM639 Cabinet: 4 Ports CAMLLoc	EA	1
	Charles 97-002975-A	SAFT Battery Modules	EA	12
	CPAD-M1BUN4038	Charles Outdoor Network Cabinet Platform (HxWxD: 18"x60.5"x51.7")	EA	1
Router (SIAD)			EA	Owner Furnish
	Nokia 7705 SAR-AX which includes: (Not all items including licenses listed)	Nokia 7705 SAR-AX which includes: (Not all items including licenses listed)	EA	1
	3HE06791AA	SAR-8 SHELF V2 - Part No. 3HE06791AA		
	3HE02774AB	CONTROL SWITCH MODULE V2 (-48/+24 VDC) - Part No. 3HE02774AB - Qty. 2		
	3HE06792EA	FAN MODULE (SAR-8 V2) EXT. TEMP -48VDC - Part No. 3HE06792EA		
	3HE07943AA	2 PORT 10GE + 4 PORT 1GE SFP CARD - Qty. 2		
	3HE00027CA	SFP - GIGE SX - LC ROHS 6/6 DDM -40/85C (550 m) - Qty. 2		
	3HE11904AA	SFP - GIGE BASE-T RJ45 R6/6 DDM -40/85C - Qty. 2		
eNodeB				Owner Furnish
	Ericsson 8630	Ericsson 8630	EA	1
Remote Radio Heads				Owner Furnish
	2212 Radio	Ericsson 2212 B8 2T2R, 2x80 Output Power w/ mounting bracket	EA	2
Antennas				Owner Furnish
	Ericsson Kathrein 80010901	4-port sector antenna, 2x 698-960, 65" HPBW	EA	6
Tower Surge Supression (OVP)				Owner Furnish
	RCKDC-8140-PF-48	Overvolage Protection & Fiber Management Junction Box for RRHs	EA	1
Tower Equipment Mounting Hardware				
	C10855111C	12' Sabre HD MOVE Platform	EA	1
	C10851301	MOVE 12' Support Rail Tension Bracket Kit	EA	1
	C10112377	Tri Collar Mount 10"-40" Pole Diameter	EA	1
	C10900210	Pipe Antenna Mounting Kit 2-7/8" X 10'-0"	EA	12
Low Inductance Hybrid Trunk Cable - Single Mode 6 x 12				Owner Furnish
	TBD	1.55" dia 6AWG Hybrid Cable	FT	150
1x1 Hybrid Jumpers with Full Axs sleeve installed				
		1 X1 20' RRU/ 6-OVP Hybrid Tail Cable 2 SMF + 4x12Ga Con Weatherproof Sleeve	EA	3
Fiber Jumpers and Cleaning Tools				
	FJ-2SM-015-3M	3m Ruggedized LC-LC SM Duplex FTTA 2-Fiber Assembly w/ Fan-Outs	EA	6
	FCCT-L	Fiber Connector Cleaning Tool - LC	EA	1
	Commscope .5" Jumpers	20ft - contractor to field verify	EA	1
Commscope Hybrid Cable Installation Accessories				
	Nokia RRU Fiber Protection	Nokia RRU Fiber Protection	EA	6
	FA-R2CT	Nokia RRU Power Cable Seal Kit	EA	3
H-Frame and H-Frame Foundation				
	TBD	H-Frame Kit (LxH: 3'x 5') *contractor to verify length	EA	1
	4000 PSI Concrete Pier	H-Frame Pier Foundation (1" dia x 4' depth)	EA	2
	PS500EH	10 Ft. 7/8" x 1-5/8" Unistrut, Galvanized, Shallow, Elongated Hole	EA	6
	PS1100-3-1/2"EG	3-1/2" Unistrut Pipe Hanger Power Strut Pipe Hanger	EA	12
Electrical Ground Equipment				
	U6281-XL-200-ST9	Millbank Meter Socket w/ Main Load Center, 200A, 1 Phase	EA	1
	OL-VTVM	LED Vaporlight Work Light	EA	1
	GPSPLONASS-36-N-S	GPS Ant. 1559 MHz,1610.5 MHz, N-Female	EA	1
	TBD	GPS Coax to ONC Cabinet	FT	15
Ice Bridge and Ice Bridge Foundation				
	WB-K110-B	Commscope Waveguide Bdrige Kit (HxL: 160"x10")	EA	1
		WBT12-3 Trapeze Kit, 3 rungs	EA	3
		WB-LB12-3 Support Bracket	EA	3
		MF-130 Direct Burial Pipe Column, 13'-4" (9' maximum spacing)	EA	2
	4000 PSI Concrete Pier	Ice Bridge Concrete Pier Foundation (1.5" dia x 3.5' depth)	EA	2
	C51499	Band-It Steel band	EA	1
	C25499	Band-It Buckle	EA	1
	LST-Q	SitePro 1 Standoff Bracket	EA	1
8-PIN Ret Cables (AISG)				
	CXTD-WM8PVWF-4M	4 Meter, 8 Pin Male to Female RET Control Cable	EA	6
Grounding Wire				
	TBD	#2 AWG Solid Copper Ground Wire	FT	150
	TBD	4/0 AWG Bare Stranded Copper Ground Wire	FT	200
	TBD	#6 AWG Stranded and Insulated Ground Wire	FT	100
Bus Bars and Grounding Rod				
	TBD	1/4"x4"x12" Universal 4x13-Hole Cu Buss Bar, Ground Bar w/Hardware	EA	2
	TBD	1/4" X 4" X 20" Ground Bar	EA	4
	5808	5/8" x 8ft Copper Clad Ground Rod	EA	6
Lugs (Grounding Materials)				
	22-38L-I	#2 AWG Lug, Two 3/8" Holes, Universal Spacing 3/4" to 1"	EA	25
	62-38-1-I	#6 AWG Lug, Two 3/8" Holes, 1" OC, Long Barrel	EA	12
	31769-1	3/8" x 1" Hardware Kit w/Lock washer & Nut, 10/Pkg	EA = 10/PK	10
Surge Arrestor & Breakers & Splitters				
	9100-0441	FEED LINE SURGE ARRESTOR GROUNDING KIT	EA	7
	BFD	FEED LINE SURGE ARRESTOR MOUNTING KIT	EA	6
	GPS-106NFM	GPS ANTENNA SURGE ARRESTOR	EA	1
	BFN	GPS ANTENNA SURGE ARRESTOR MOUNTING KIT	EA	1
Tapes and Weatherproofing				
	TBD	Weatherproofing Boot	EA	6
	35-BLUE3/4X66	Blue, 3/4" x 66' Electrical Tape	EA	2
	35-GREEN3/4X66	Green, 3/4" x 66' Electrical Tape	EA	2
	35-RED3/4X66	Red, 3/4" x 66' Electrical Tape	EA	2
	35-YELLOW3/4X66	Yellow, 3/4" x 66' Electrical Tape	EA	6
Miscellaneous Materials				
	CABLETAG	Fiber Tag for Coaxial Cable, 1.25" x 0.75"	EA	
	POWERTAG	Fiber Tag for Coaxial Cable, 1.25" x 0.75"	EA	75
Cadweld				
	CADWELD #GTC-1620	CADWELD CONNECTION TYPE GT MOLD, 4/0 MCM TO 5/8" GROUND ROD	EA	6
	CADWELD #TAC-202Q	CADWELD CONNECTION TYPE TA MOLD, 4/0 MCM RUN TO 4/0 MCM TAP	EA	7
	CADWELD #HKH-204	CADWELD CONNECTION TYPE HK MOLD, 4/0 MCM TO PIPE	EA	2
	CADWELD #LAC-20EK	CADWELD CONNECTION TYPE LA MOLD, 4/0 MCM TO 1/4"x3" AND WIDER BUSBAR	EA	2
	CADWELD #90PLUSF20	90 PLUS CADWELD WELDING MATERIAL	EA	10
	CADWELD #115PLUSF20	115 PLUS CADWELD WELDING MATERIAL	EA	19
	CADWELD #150PLUSF20	150 PLUS CADWELD WELDING MATERIAL	EA	37



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BLACK & VEATCH

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PROJECT NO:	409336.0036.2030
DRAWN BY:	VDP
CHECKED BY:	AL

7	09/16/24	PER JURISDICTION COMMENTS
6	07/01/24	PER CONTRACTOR COMMENTS
5	04/22/24	PER JURISDICTION COMMENTS
4	02/15/24	PER CLIENT COMMENTS
3	01/09/24	PER JURISDICTION COMMENTS
2	10/16/23	PER JURISDICTION COMMENTS
1	06/15/23	PER JURISDICTION COMMENTS
0	05/19/23	ISSUED FOR 100% CDs
REV	DATE	DESCRIPTION



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS
THEY ARE ACTING UNDER THE DIRECTION OF A
LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS
DOCUMENT.

AMEREN PLTE PROJECT
KEATON
3605 HWY K
O'FALLON, MO 63368
MONOPOLE

SHEET TITLE
BILL OF MATERIAL

SHEET NUMBER
BOM