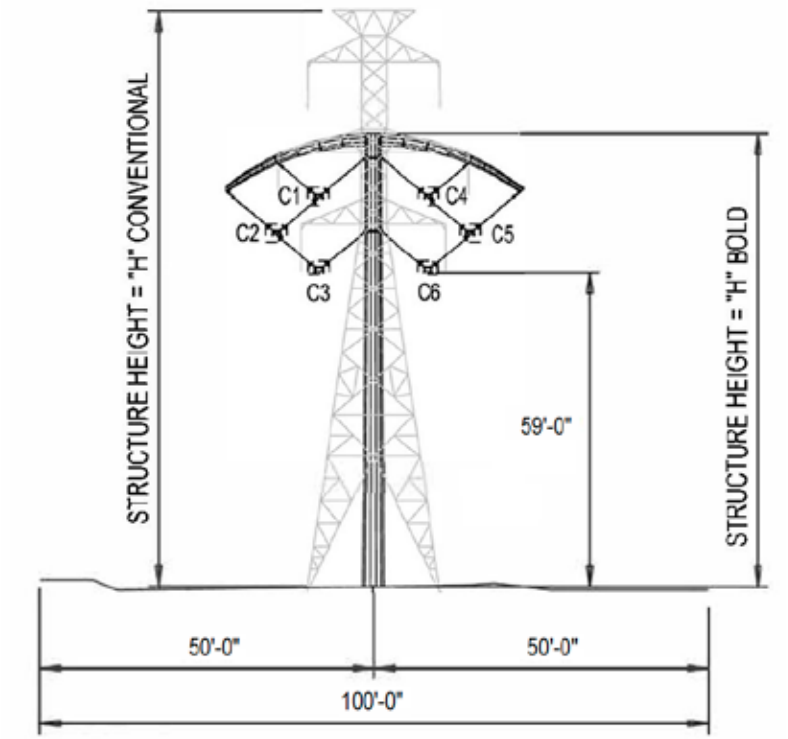
BOLD®

138-kV Specifications



Phase Conductor Bundle	Phase Spacing (Feet)	Structure Height (Feet)	Structure Width (Feet)
1-795 kCM ACSR Drake	10.5/10.5/13.5	85	53

*based on 900' span lengths

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Design	BOLD Designs
Phase Conductor Bundle	**1-795 kCM ACSR Drake**
	EACH CIRCUIT
Surge Impedance (Ω)	335
SIL (MW)	57
	BOTH CIRCUITS COMBINED
Resistive Loss[3] (MW/100 Miles)	24
Corona Loss[4] (MW/100 Miles)	0.05
Audible Noise @ROW Edge (dBA)[6][7]	12
Electric Field @ROW Edge (kV/m)[5][6]	0.26
Magnetic Field @ROW Edge (mG)[5][6]	38

NOTES

(1) All options currently represent best available data for phase spacing and bundle diameters. Project-specific requirements may vary.
(2) All options consider 2 x 0.646" dia. OPGW as the shield wires.
(3) 138-kV BOLD line loss based on 200 MVA loading in each of two-circuits.
(4) Yearly average corona loss (rain 20%, snow 2%, fair 78% of time).
(5) Results are shown for "superbundle" phase arrangement (1-2-3; 1-2-3, top-to-bottom); other arrangements are possible.
(6) 138-kV Right-of-way (ROW) width is 100 feet.
(7) Mean value of audible noise in rain at sea level.

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