MariBell Transmission Project

Typical
Structure

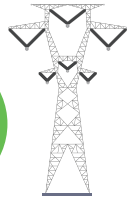
Why 765 kV Technology was selected

765 kV technology was identified in the Midcontinent Independent System Operator, Inc. (MISO) planning process as the preferred solution for the region, presenting several advantages:

- Efficiently carries large amounts of power while reducing overall project costs and reliably delivering electricity to customers throughout the region.
- Needs fewer transmission lines to carry the same amount of power.
- Requires fewer structures, reducing impact on land, communities and the environment.
- Provides additional capacity to power new manufacturing, homes, businesses and farms.

MISO's analysis showed that one 765 kV transmission line can carry as much power as six 345 kV single circuit lines— **minimizing the land needed** by as much as 70-80%.

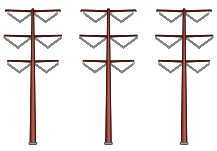
1



Double Circuit Tower
765/161 KV

~250 FT
Total right-of-way

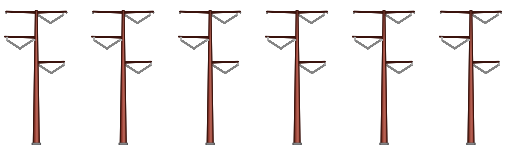
3



Double Circuit Towers
345 KV

450 FT
Total right-of-way

6



Single Circuit Towers
345 KV

900 FT
Total right-of-way

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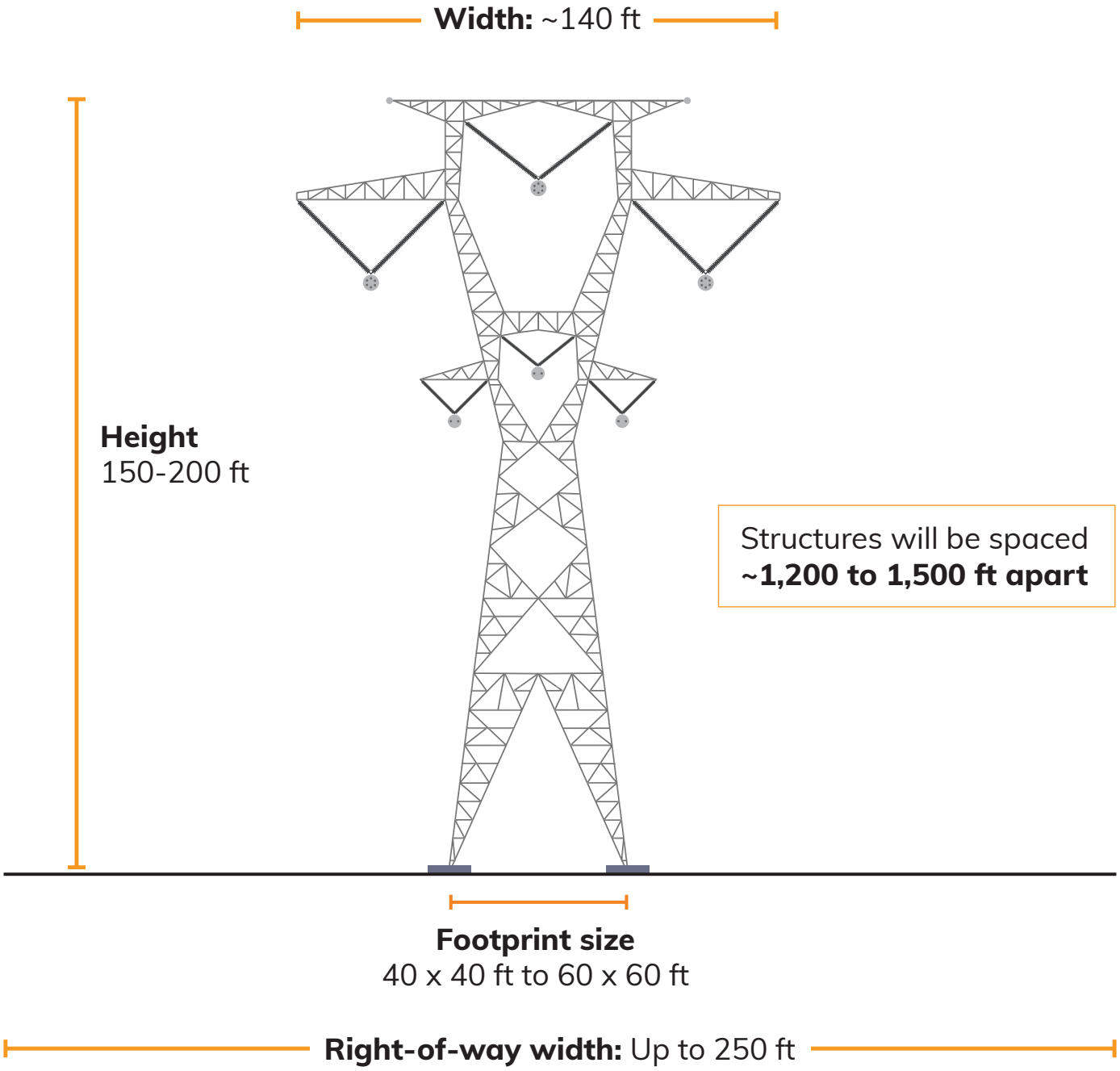
MariBell Transmission Project

Maribell transmission project structure type

This is an example of a double-circuit 765/161 kV steel lattice structure, similar to what could be used on the project.



NOTE: *Preliminary design, not to be used for construction.*