

# Structures Under Consideration

## for the TransWest Express Transmission Project



Photo credit: Manitoba Hydro



### Conceptual design

This direct current high-voltage transmission line is designed to carry as much power as possible to minimize land use needed while increasing the capacity, stability and reliability of the western power grid.

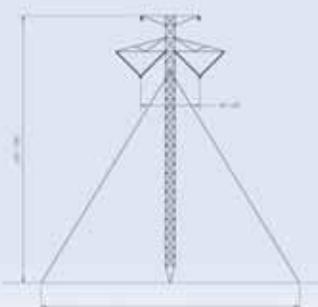
**Structure heights:** 100-180 feet

**Span between structures:** 900-1,500 feet

**Transmission line right-of-way width:** typically 250 feet

**Access road width:** typically 14-20 feet

### Guyed V-String Structure



- Uses least steel
- Requires least foundations
- Allows long span lengths

### Self-Supporting V-String Structure



- Uses more steel than guyed
- Requires larger foundations
- Allows long span lengths

### Tubular V-String Structure



- Uses most steel due to solid design
- Requires most concrete for foundations
- Supports shorter span lengths