Calculations done using existing single circuit wood poles with posts insulators for tangent structures and strain insulator configuration for dead-end and angle structures. Typical diagrams and example photos shown for reference only.

Calculations are done using worst case maximum sag conditions at minimum NESC conductor to ground clearances. This does not represent conditions along the entire line route but provides the maximum calculated field levels that could be encountered. Actual field levels at any point along the line will be less than those listed.

**Conductor:** 336.4 kcmil 18/1 ACSR (Merlin)

**Notes & Assumptions:**

**Voltage:** 34.5 kV Nominal, 36.25 kV Maximum (105%)

**Minimum NESC Clearance:** 18'-6" Phase, 15'-6" Neutral

**Current (Loading):** Line loading listed are the average daily loading and possible peak loading expected based on a 2018 line energization. Note that line loading varies throughout the day based on customer demand, these values are used to represent the highest possible field levels that would be experienced.

Calculations done using existing single circuit wood poles with posts insulators for tangent structures and strain insulator configuration for dead-end and angle structures. Typical diagrams and example photos shown for reference only.

Calculations are done using worst case maximum sag conditions at minimum NESC conductor to ground clearances. This does not represent conditions along the entire line route but provides the maximum calculated field levels that could be encountered. Actual field levels at any point along the line will be less than those listed.

**Typical Structure**