

EXHIBIT G

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EXHIBIT G – CONCEPTS OF PROPOSED FACILITIES

As stated in R14-3-219 of the Rules of Practice and Procedure Before Power Plant and Transmission Line Siting Committee, Exhibits to Application, Exhibit G:

“Attach any artist’s or architect’s conception of the proposed plan or transmission line structures and switchyards, which applicant believes may be informative to the committee.”

The following presents the concepts of proposed facilities for the Vail to Tortolita 230 kV Project. The Project is an upgrade of an existing transmission line owned and operated by Western Area Power Administration (WAPA). The 64-mile route will include the replacement of wood H-frame poles with steel monopoles in approximately 52 miles of existing transmission line right-of-way (ROW). The Project will also include four realignments outside the current ROW, totaling approximately 12 miles (Vail Lateral realignment [segment U4 in the Final Environmental Impact Statement [EIS], Old Vail Road realignment [segment U3aPC in the Final EIS], Tumamoc Hill realignment [segments TH1a and TH1 Option in the Final EIS], and Marana Airport realignment [segment MA-1 in the Final EIS]).

Set forth below is a list of attached sub-exhibits, which provide concepts of the proposed Project that Tucson Electric Power believes will be informative to the Siting Committee:

Exhibit G-1	Typical 230-kV direct embedded tangent tubular steel pole diagram
Exhibit G-2	Typical 230-kV tangent tubular steel pole diagram
Exhibit G-3	Typical 230-kV suspension angular tubular steel pole diagram
Exhibit G-4	Typical 230-kV dead-end tubular steel pole diagram
Exhibit G-5	Comparison of typical existing and proposed structure types

TRANSMISSION LINE STRUCTURES

230-kV Structures

The 230-kV double-circuit transmission line is proposed to be tubular steel structures (Exhibits G-1 through G-5). BLM and WAPA determined that the monopoles should be color treated to “shadow gray” per the BLM’s Environmental Color Chart, while also recognizing that tower types or treatment may be modified to minimize visual contrast (see Table 2-8 in the Final EIS, Exhibit B-1).

SUBSTATION FACILITIES

Substation improvements, which are needed to accommodate the 230-kV transmission line upgrade as part of the Upgrade Section, would generally include new yard expansions, line and/or bus compensation equipment, shunt reactor or shunt capacitors, switches and breakers, and installation of new transformers, in addition to construction laydown areas.

**EXHIBIT G-1: TYPICAL 230-KV DIRECT EMBEDDED TANGENT TUBULAR
STEEL POLE**

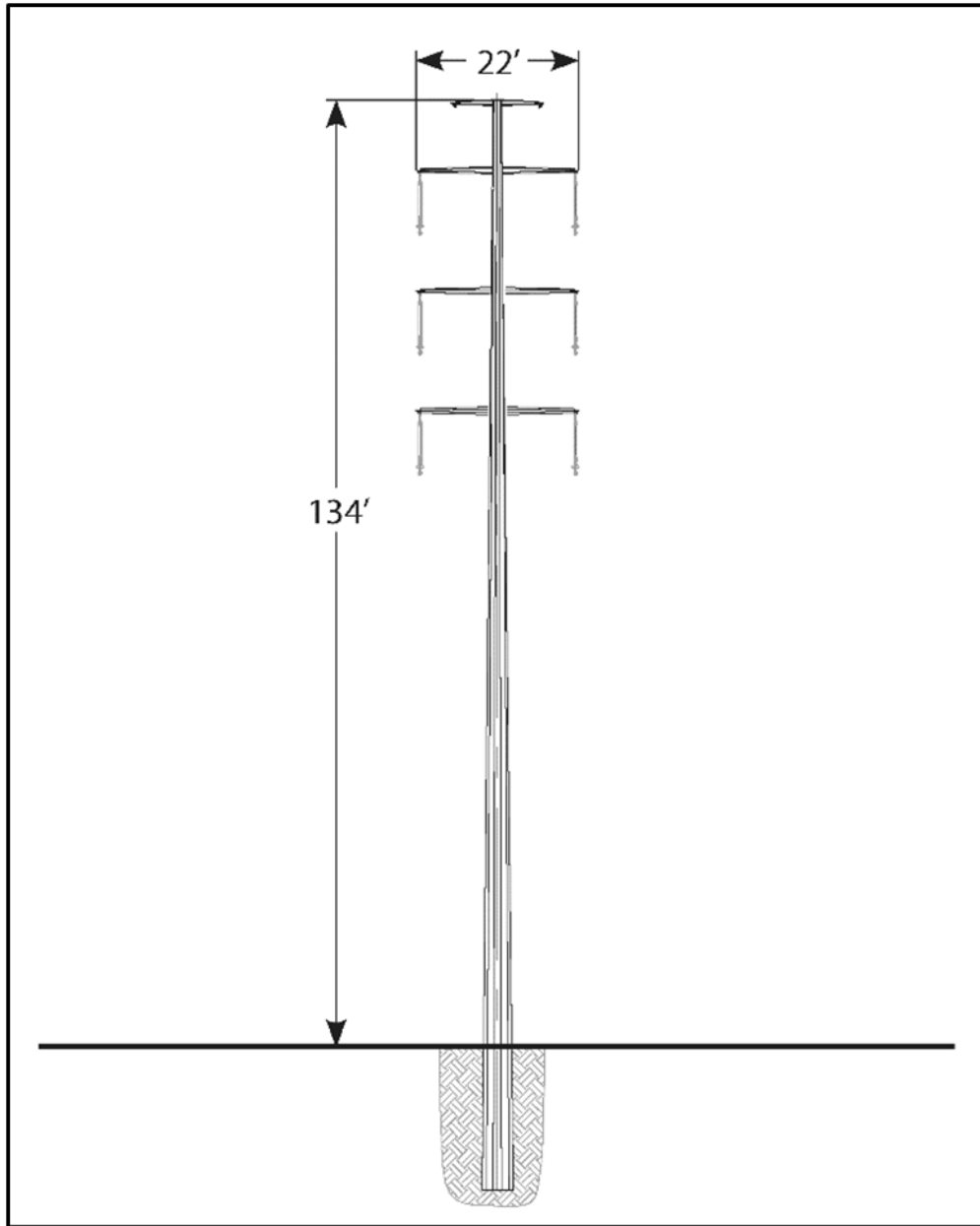


EXHIBIT G-2: TYPICAL 230-KV TANGENT TUBULAR STEEL POLE

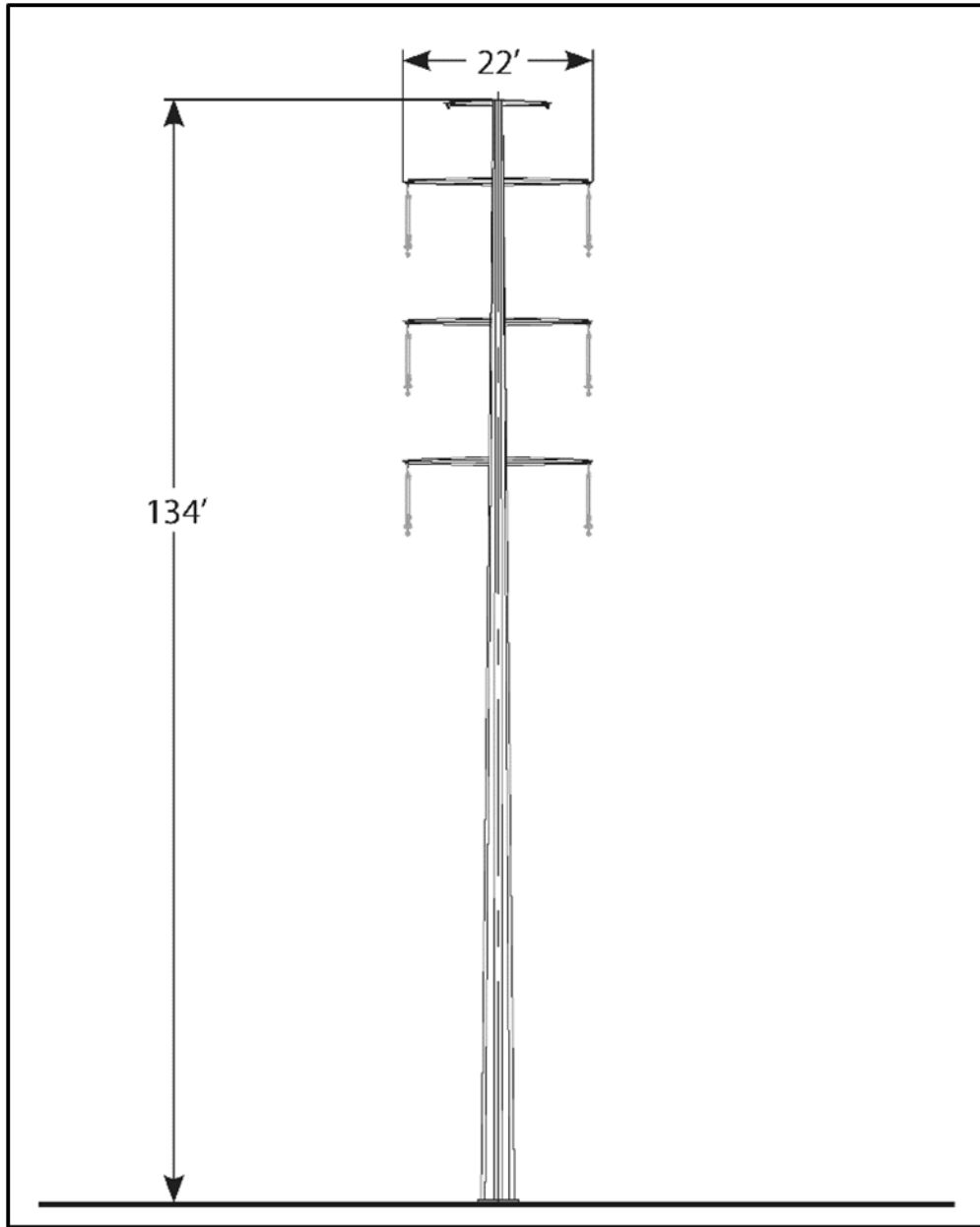


EXHIBIT G-3: TYPICAL 230-KV SUSPENSION ANGULAR TUBULAR STEEL POLE

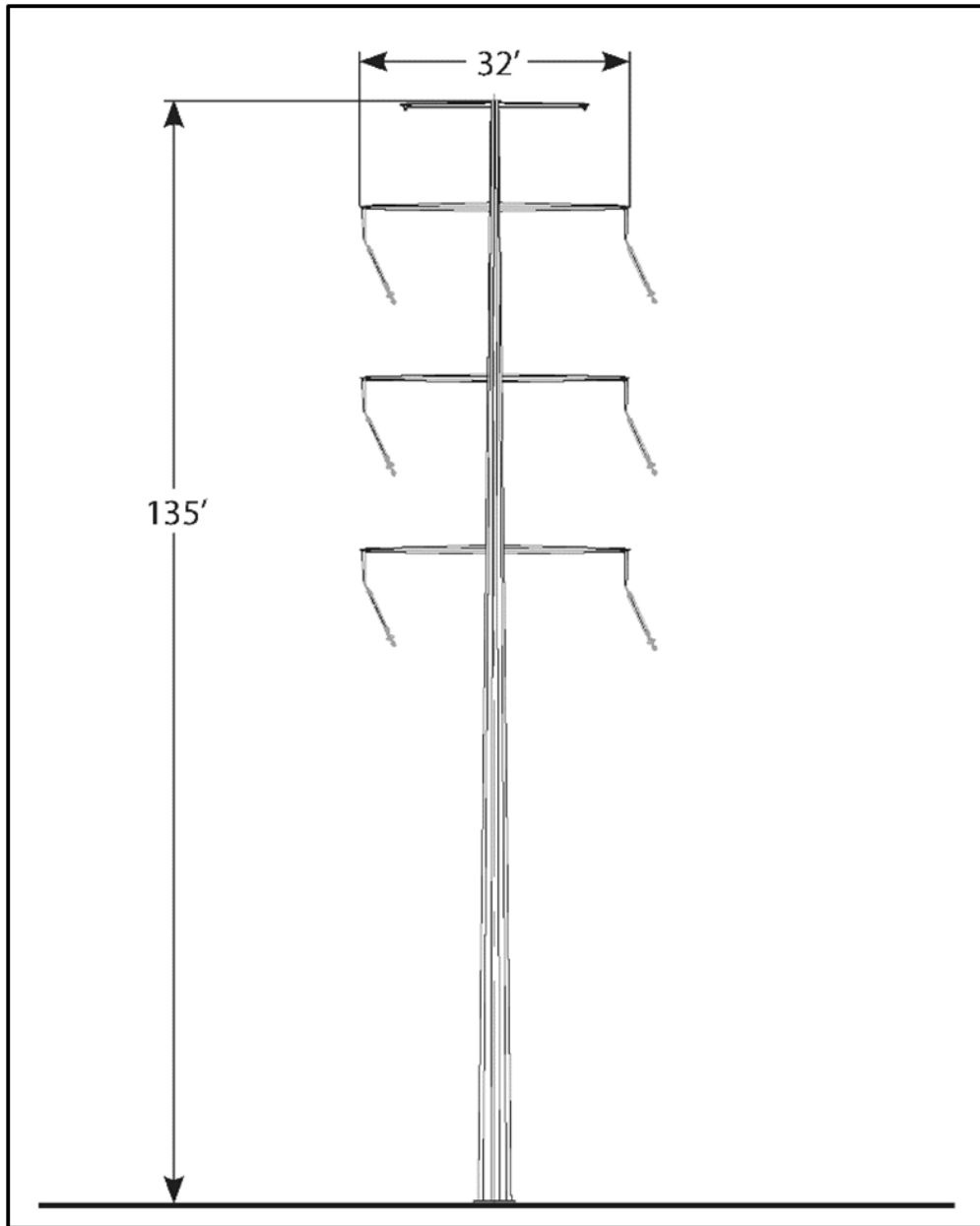


EXHIBIT G-4: TYPICAL 230-KV DEAD-END TUBULAR STEEL POLE

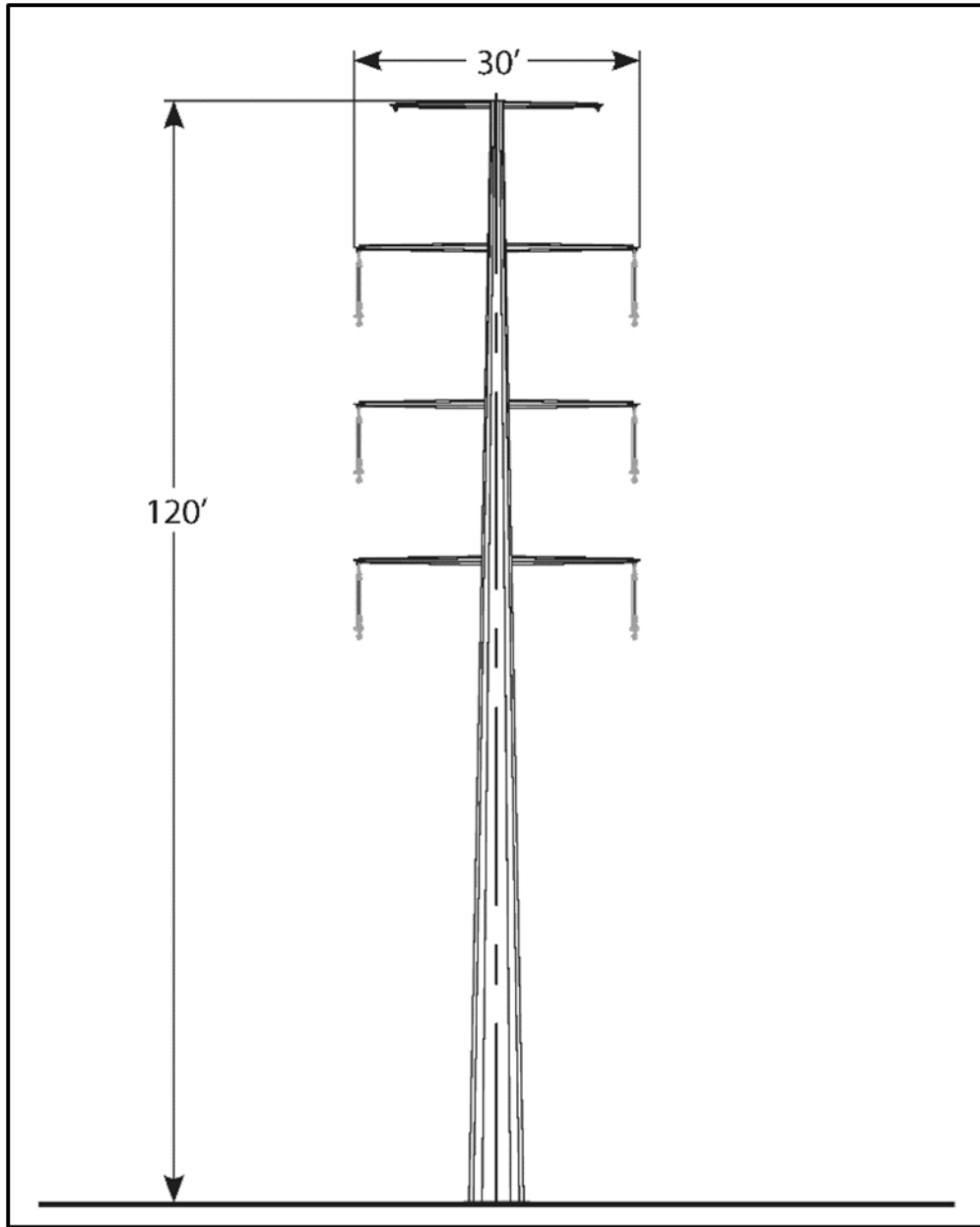
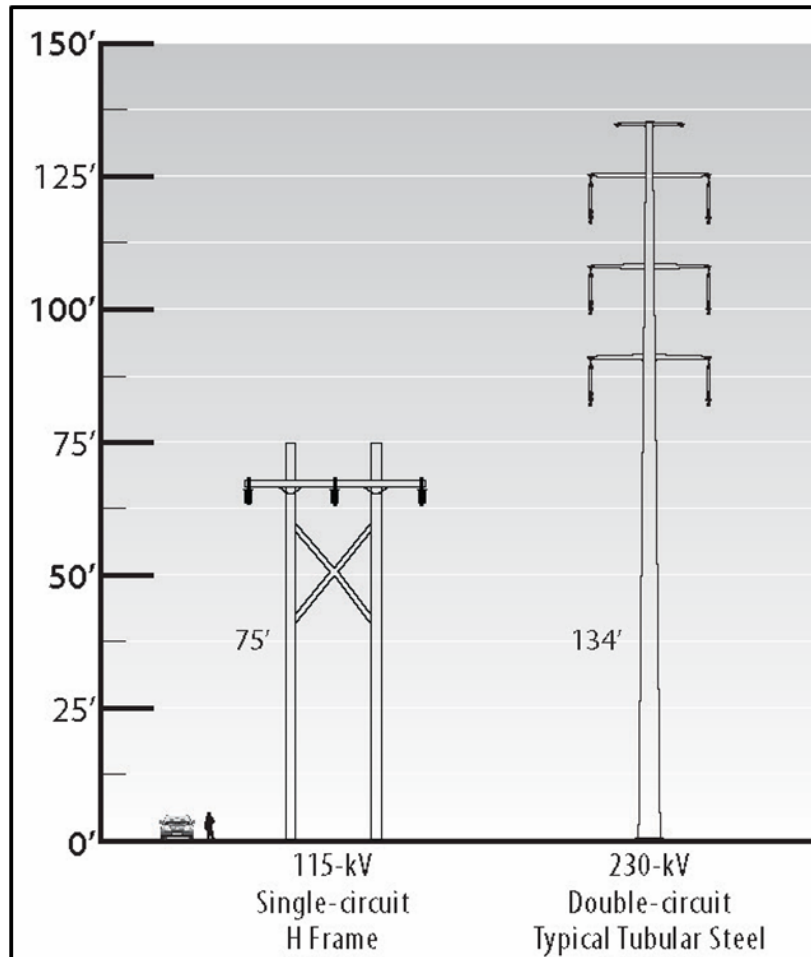


EXHIBIT G-5: COMPARISON OF TYPICAL EXISTING AND PROPOSED STRUCTURE TYPES



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