

Appendix B – Alternative Structure Types

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APPENDIX B – ALTERNATIVE STRUCTURE TYPES

Alternative structure types have been identified for the Project where typical structures (identified in Chapter 2) may not be sufficient to respond to specific site conditions and engineering design needs. Alternative structure types also may be prescribed as mitigation for environmental impacts. The design of alternative structures may vary depending on the specific engineering or mitigation requirements for a particular location. The exact height and foundation requirements for each structure would be governed by terrain conditions and safety requirements for conductor clearance.

Alternative single-circuit structures include an H-frame deadend structure, H-frame running angle and deadend structures with down guys, three-pole running angle and deadend structures with down guys, and mono-pole tangent and deadend structures. Alternative structures also have been identified for conditions requiring double-circuiting and include double-circuit mono-pole tangent and deadend structures. The various alternative single- and double-circuit structures that may be used for the Project are illustrated in Figures B-1 through B-9.

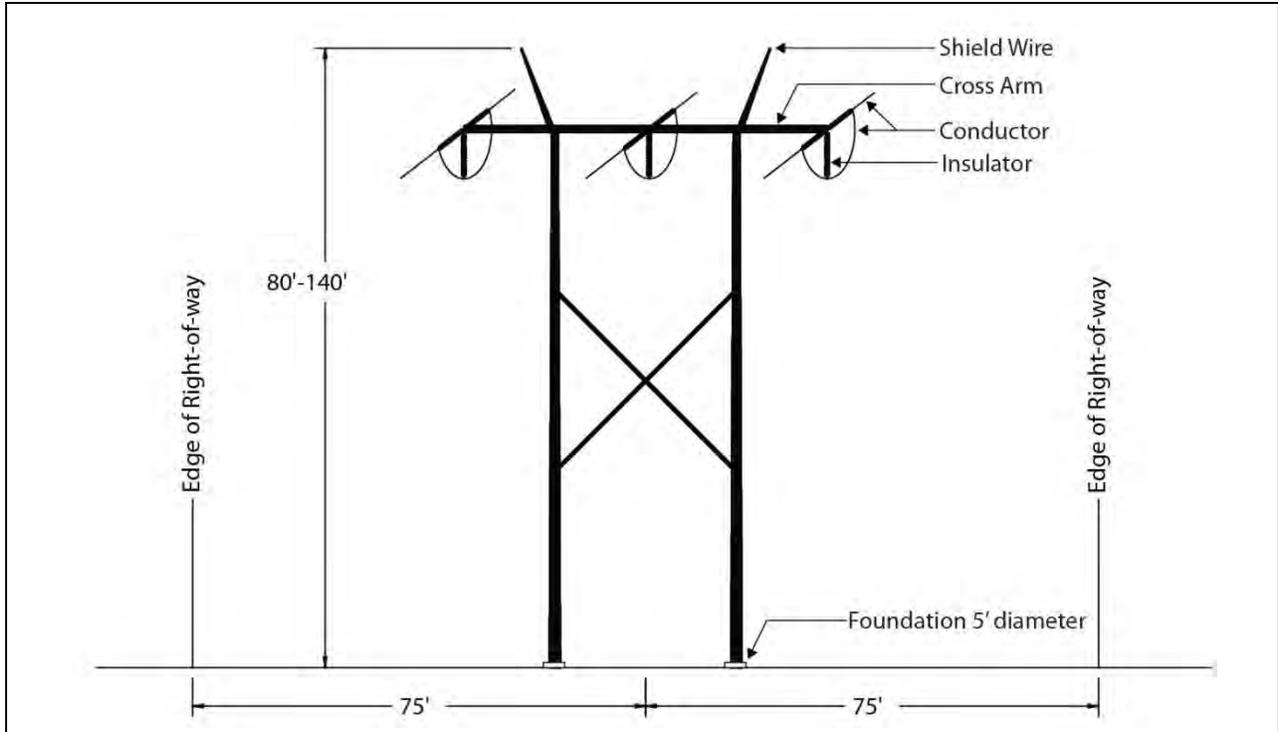


Figure B-1 Single-circuit H-frame Deadend Structure (for angles 0°–15°)

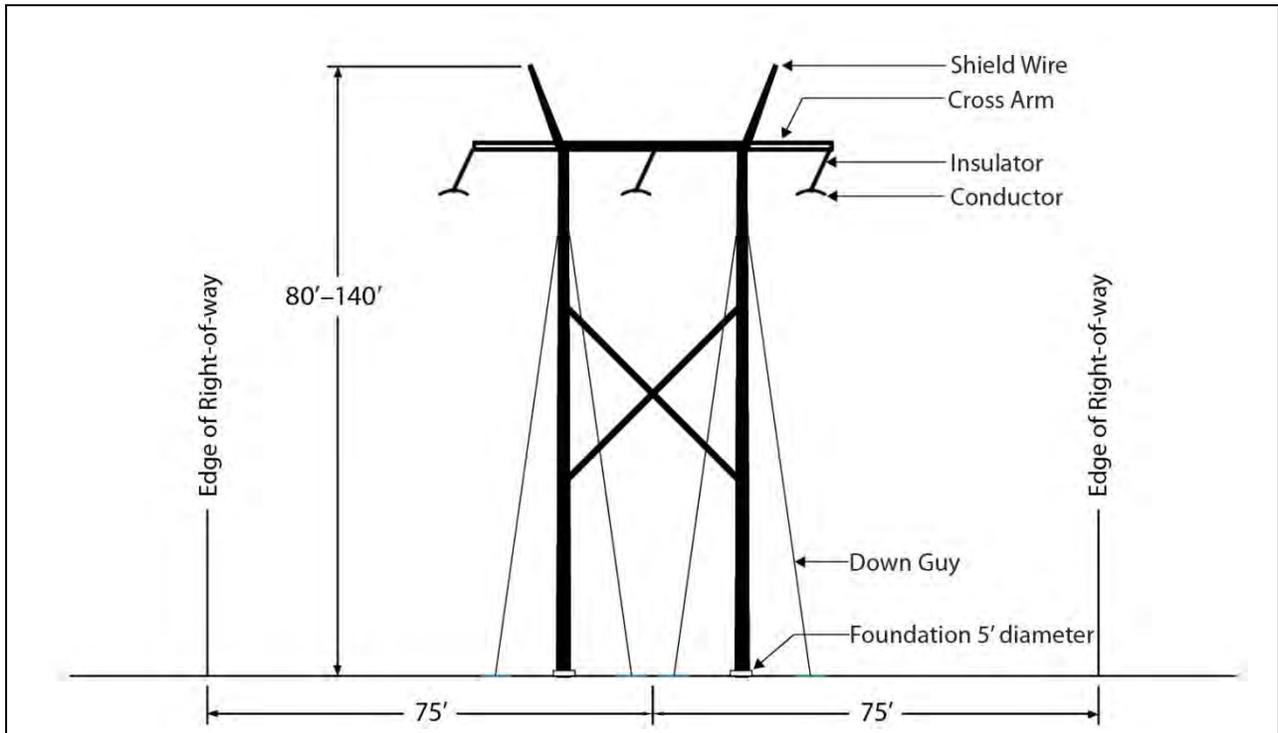


Figure B-2 Single-circuit H-frame Running Angle Structure with Down Guys (for angles 0°–15°)

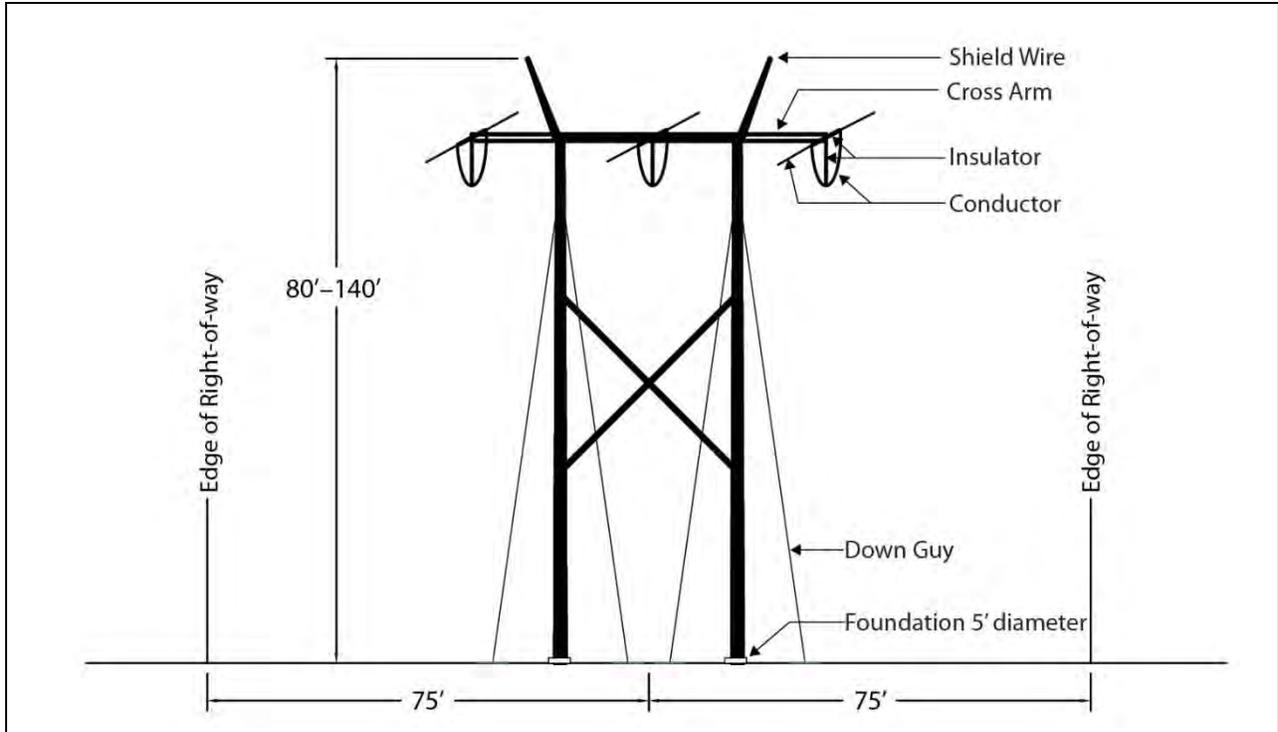


Figure B-3 Single-circuit H-frame Deadend Structure with Down Guys (for angles 5°–15°)

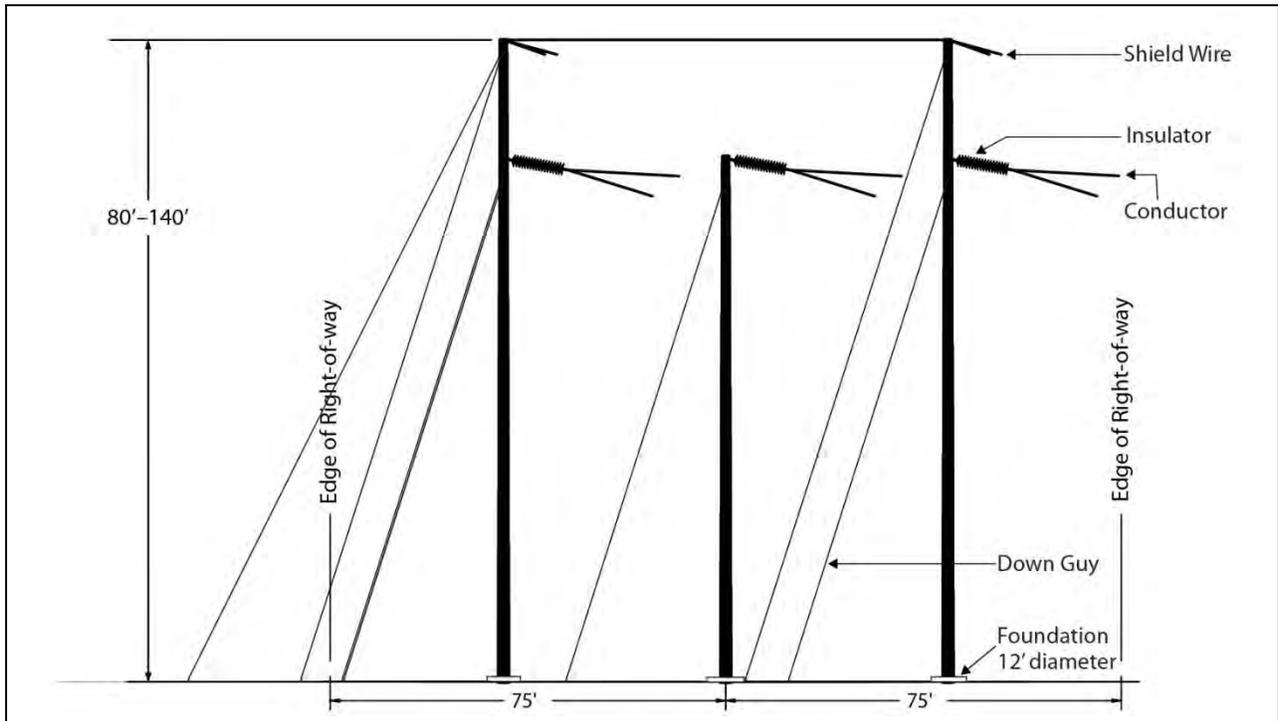


Figure B-4 Single-circuit Three-pole Running Angle Structure with Down Guys (for angles 5°–10°)

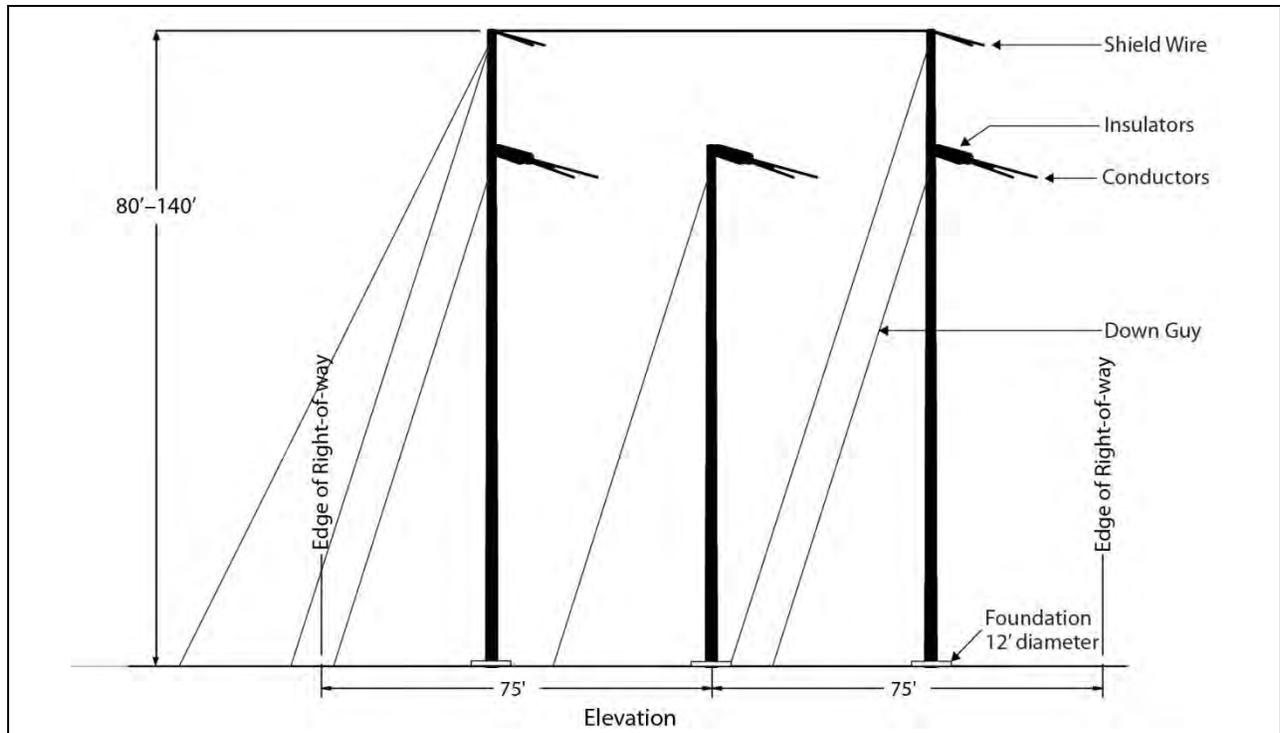


Figure B-5 Single-circuit Three-pole Deadend Structure with Down Guys (for angles 30°–90°)

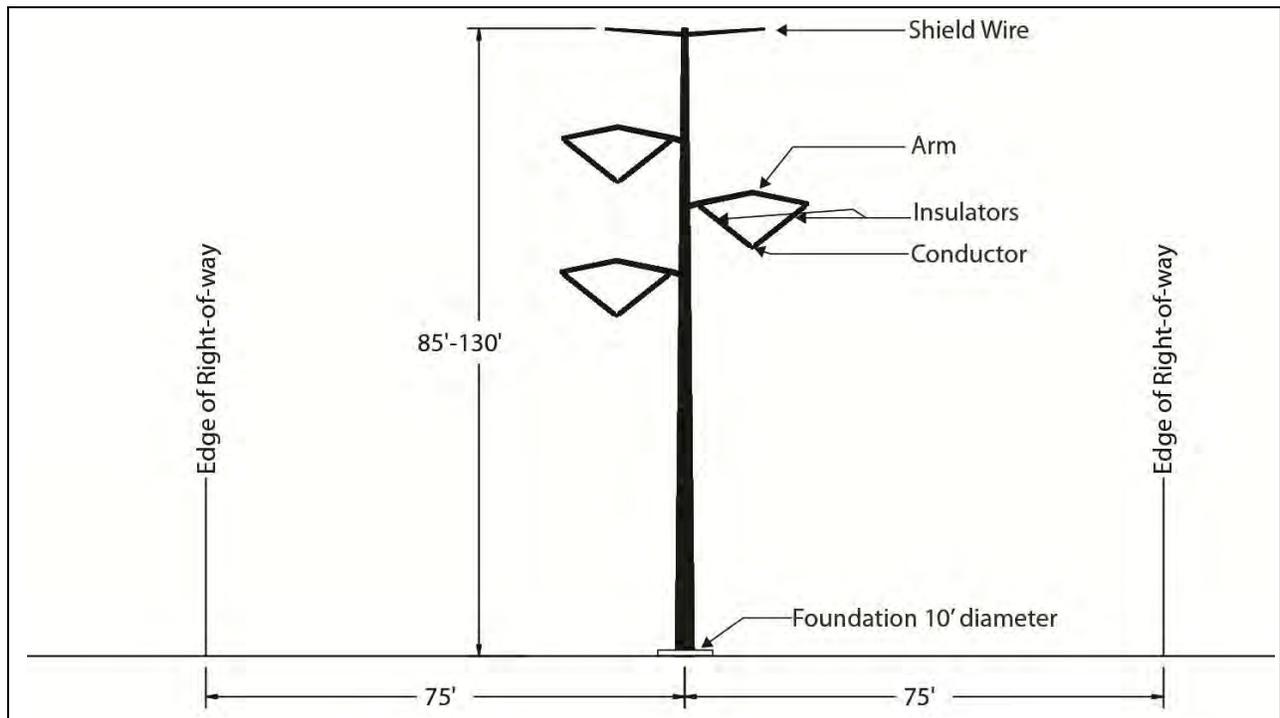


Figure B-6 Single-circuit Mono-pole Tangent Structure (for angles 0°–5°)

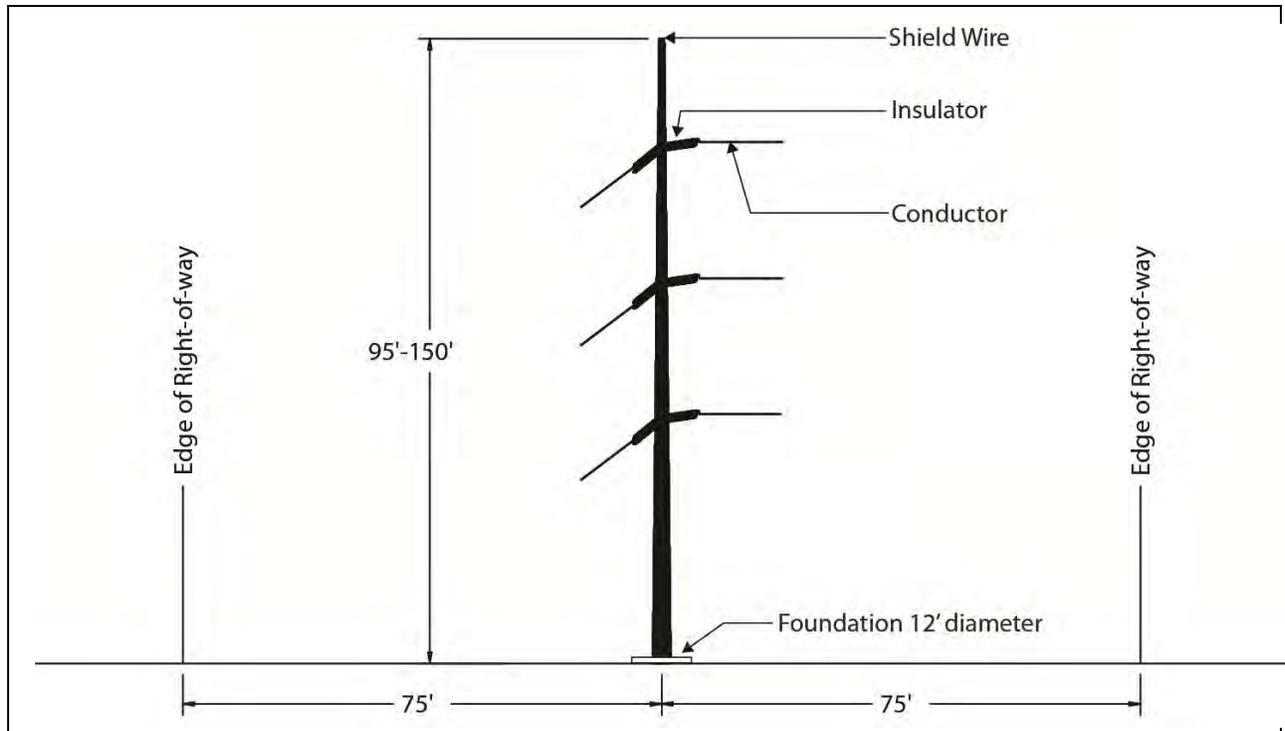


Figure B-7 Single-circuit Mono-pole Deadend Structure (for angles 5°–90°)

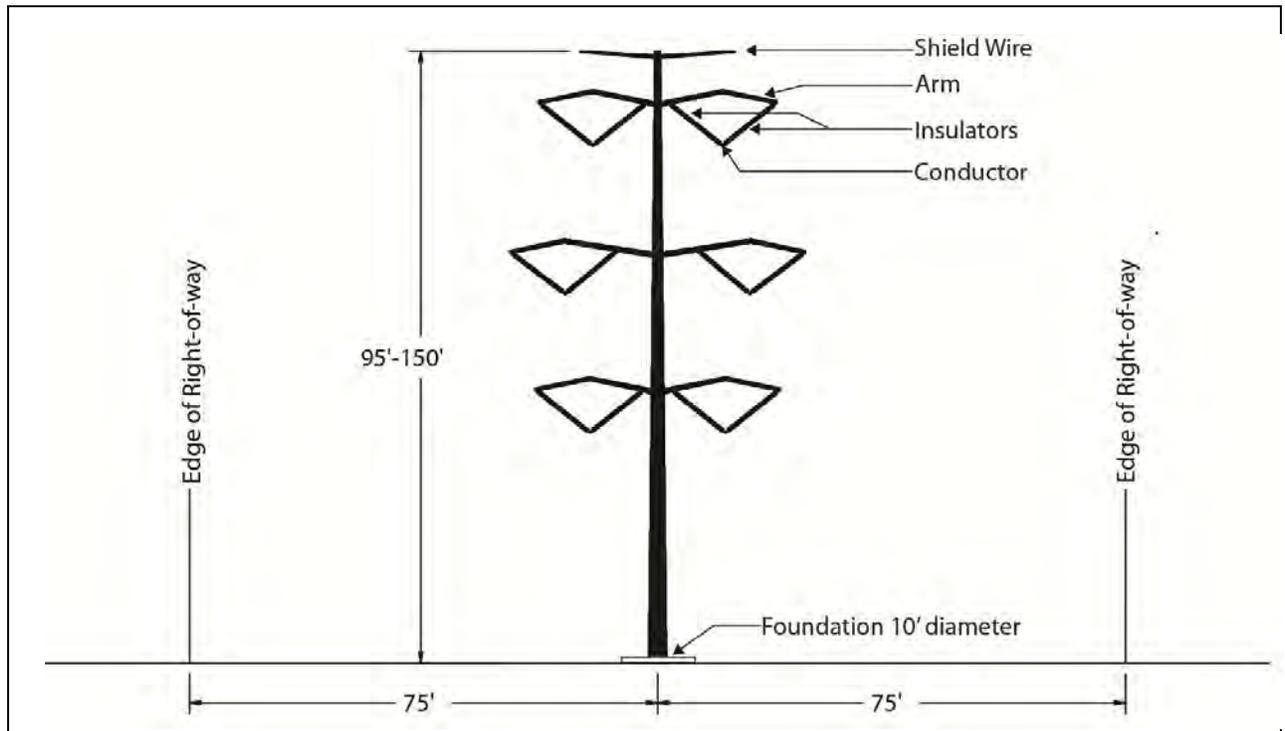


Figure B-8 Double-circuit Mono-pole Tangent Structure (for angles 0°–5°)

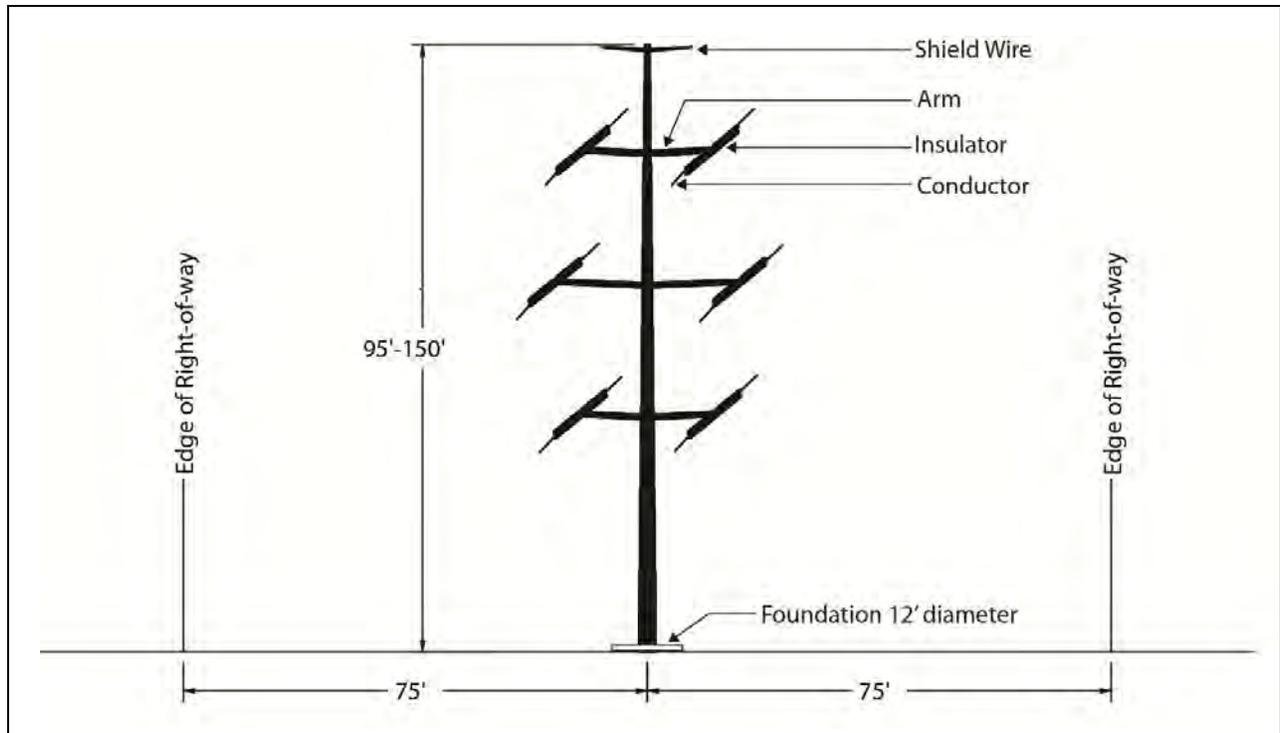


Figure B-9 Double-circuit Mono-pole Deadend Structure (for angles 5°–90°)