

Transmission Line Construction

Construction of transmission lines involves the following activities:

- *Site Preparation*
- *Foundation Construction*
- *Structure Construction*
- *Wire-Stringing Operations*

Site Preparation

Tower locations are cleared of vegetation prior to construction of the towers. Access roads may need to be upgraded or new roads constructed to accommodate construction vehicles and equipment access to each tower site.



Transmission line tower construction site.



Foundation construction for an LST.

Foundation Construction

Most structures have a concrete foundation. The size of the foundation depends on the type of structure and the terrain. Foundation construction begins with the auguring of holes for footings (four for lattice steel towers [LSTs] and one for tubular steel poles [TSPs]). For LSTs, each hole is usually 3 to 4 feet wide and 15 to 30 feet deep. TSPs require one hole that is up to 8 to 12 feet wide and 40 to 60 feet deep. Regardless of the structure type, foundations typically have a slight projection above the ground.

After the footing holes are excavated, they are reinforced with steel and then concrete is poured into the holes. Once the concrete has cured, crews can begin the construction of the structure itself.

Structure Construction

Generally, structures are built from the ground up. Structures are assembled in sections near the new tower location and a crane is used to lift the sections into place. Crews then bolt the sections together.

TSPs are either completely assembled near the tower location and then erected at once, or are assembled in sections. The method used is determined by terrain and available space next to the structure site.

Tower erection is usually performed by crane, but helicopters are used in areas that are inaccessible to large ground-based construction equipment.



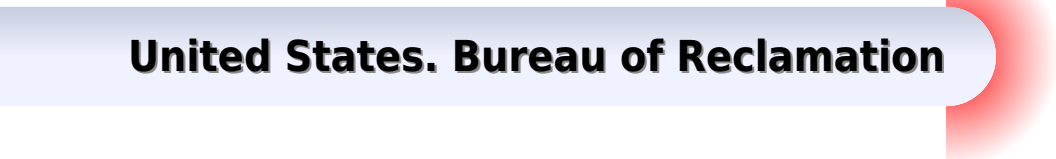
A crane carrying the top section of a LST for installation.



A sky crane helicopter carrying the top section of a LST.

Transmission Line Construction Guide Manual

United States. Bureau of Reclamation



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