Anchors and Foundations for Telecom Industry

A CASE HISTORY

Site Owner: American Tower Corporation
Location: Gibson, LA

Tower Supplier: Allied Tower
Foundation Contractor: Lomas Construction
San Antonio, TX

Tower Type : Guyed (4 Levels)
Tower Height : 330'-0
Center (Base) Reactions:
- Maximum Compression 331.4 kips*
- Maximum Groundline Shear 6.1 kips
- *Plus weight of concrete pile cap of 40.0 kips

Design Load/Guy wire: 34.0 kips
Soil Profile:
- 0 - 80' Soft clay
- 80' plus Firm clay

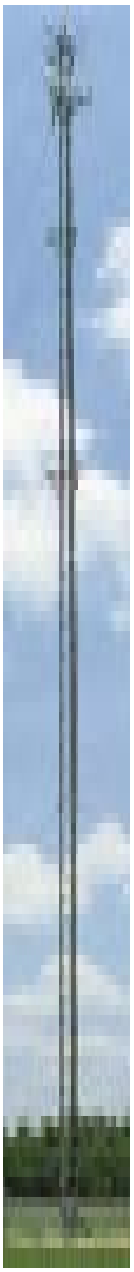
Center Piles:
16 Type HS with 85'-0 of plain extension
Ultimate Capacity (UCt) = UCb + UCf
UCt = 48.0 + 0.0 = 48.0 kips

Guy Anchors:
Two Type SS5 anchors per guy wire connected to an 18" Adjust-A-Grip® Deadend Grip

Installation Equipment:
John Deere 410D Heavy-lift backhoe equipped with a 12,500. ft-lb drive motor with an internal torque-monitoring device

Posi-Track equipped with a 15,000. ft-lb drive motor with an internal torque-monitoring device

• Individual guy wires, each to two anchors



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