

Option A - Wood vs. Steel Comparison	Steel Str's	Wood Str's
Typical Span Length	500	300
Structures per mile	11	18
Structure Quantity	127	212
Clearance above ground	45-ft	25-ft

12 miles

- 1. Preliminary values
- 2. Wood poles limited on height due to availability and strength.

Table 1

Option A - Steel vs. Wood Pole Construction

Table 2

Quantities include line segments Perche to Mill Creek and Mill Creek to Grindstone

Structure Type	Steel				Wood			
	Foundation Diameter (ft)	Pole Diameter (ft)	~ Qty.	% of Structure in Line	~Pole Qty	Pole Diameter (ft)	Guy Anchors	% of Structure in Line
Tangent	4-5	2.25-3	68	73%	120	1.5-2	0	83%
Small Angle	5-6	2.5-3	10	11%	10	1.5-2	4	7%
Large Angle	7-8	3-5	5	5%	5	1.5-2	4	3%
Deadend	7-8	4-5	8	9%	8	1.5-2	8-12	6%
Large Deadend	9-10	4-6	2	2%	2	1.5-2	12	1%

Total Structures 93

Total Wood Structures 145

Steel Poles

Wire clearance for steel structure line: ~45-ft

Typical span length for steel pole line: 500-ft

Wood Poles

Wire Clearance for wood structure line: ~25-ft (RUS Minimum clearance over roads = 23'-6")

Typical span length for wood pole line: 300-ft

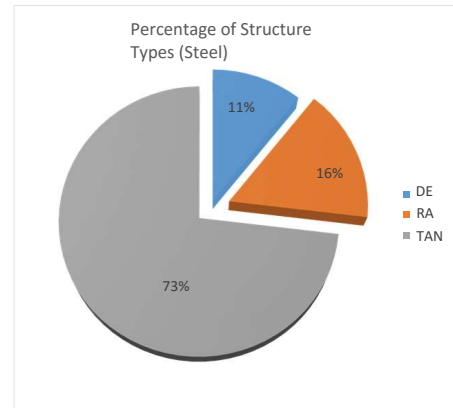
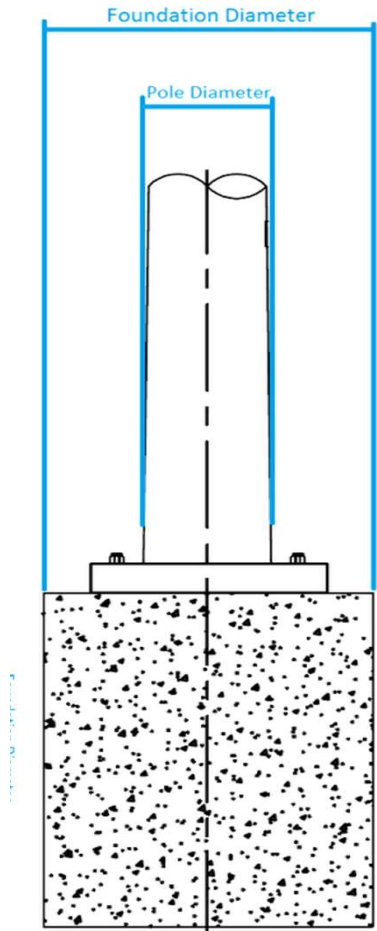
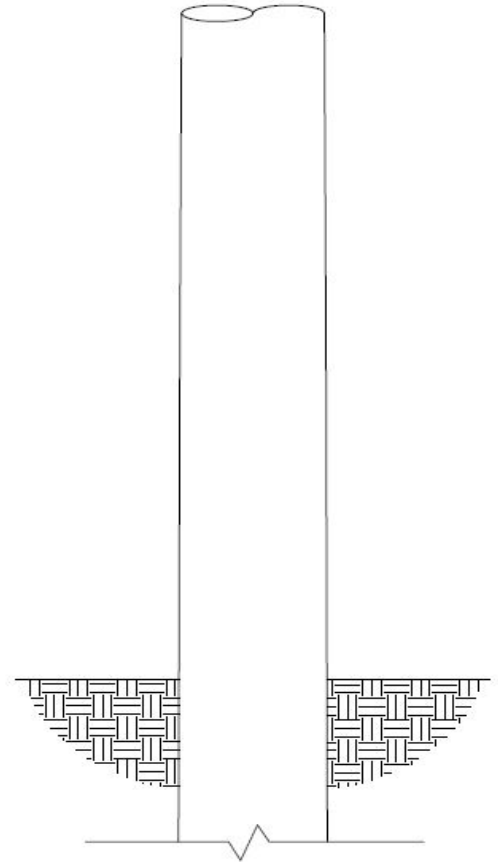
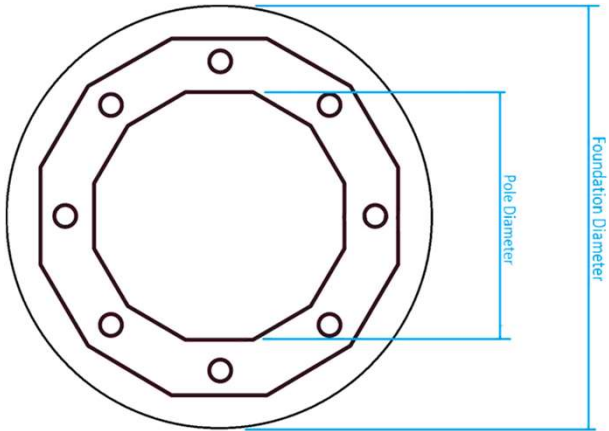


Figure 1



Steel Pole Foundation Detail



Wood pole foundation detail

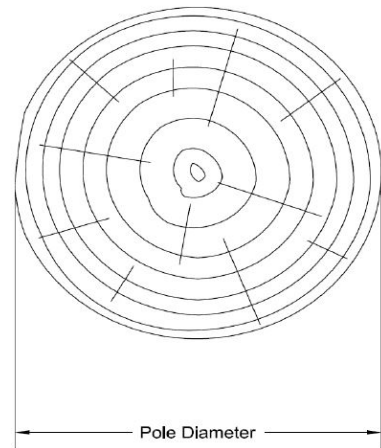
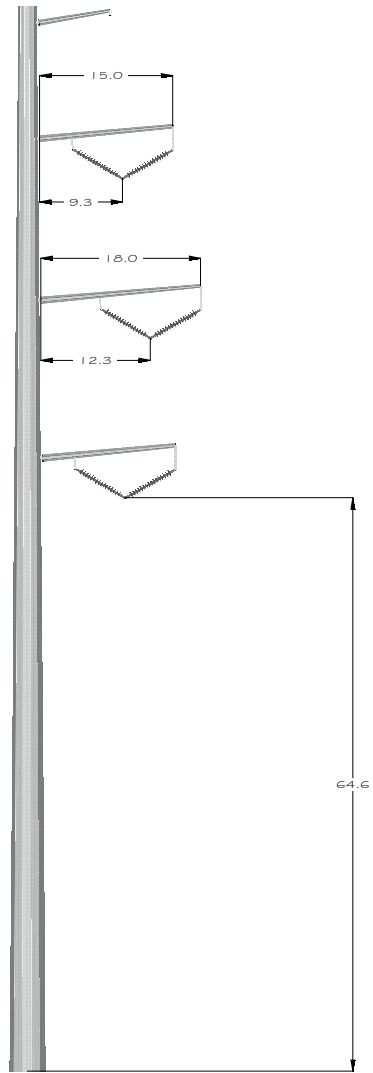


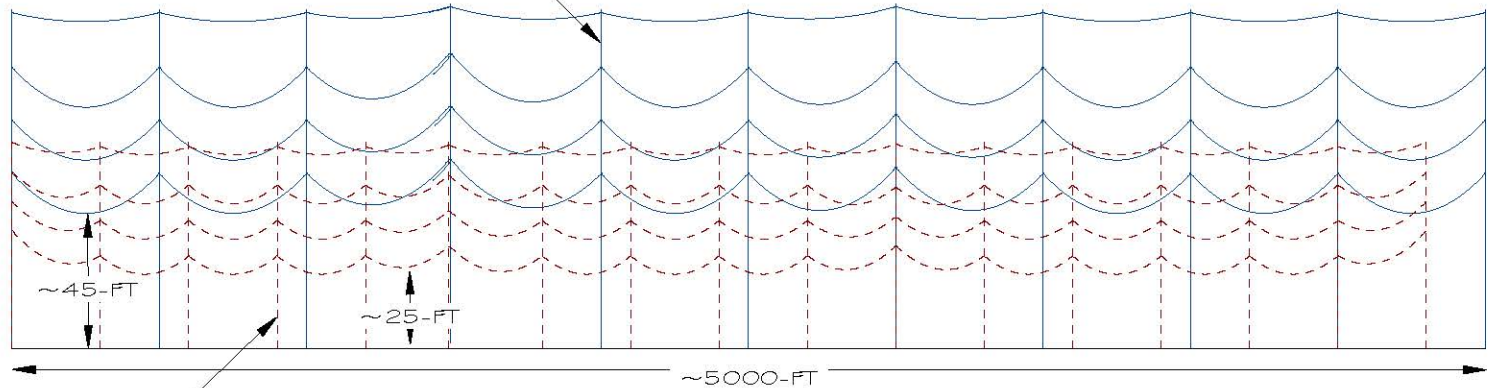
Figure 2



Longitudinal

Figure 3

STEEL POLES - ~500-FT SPANS
45-FT CLEARANCE ABOVE GROUND
POLE HEIGHT 100-150-FT ABOVE GROUND



~45-FT

~25-FT

~5000-FT

WOOD POLES - ~300-FT SPANS
25-FT CLEARANCE ABOVE GROUND
POLE HEIGHT ~70-90-FT ABOVE GROUND

STEEL VS. WOOD TYPICAL SPAN LENGTHS

Figure 4

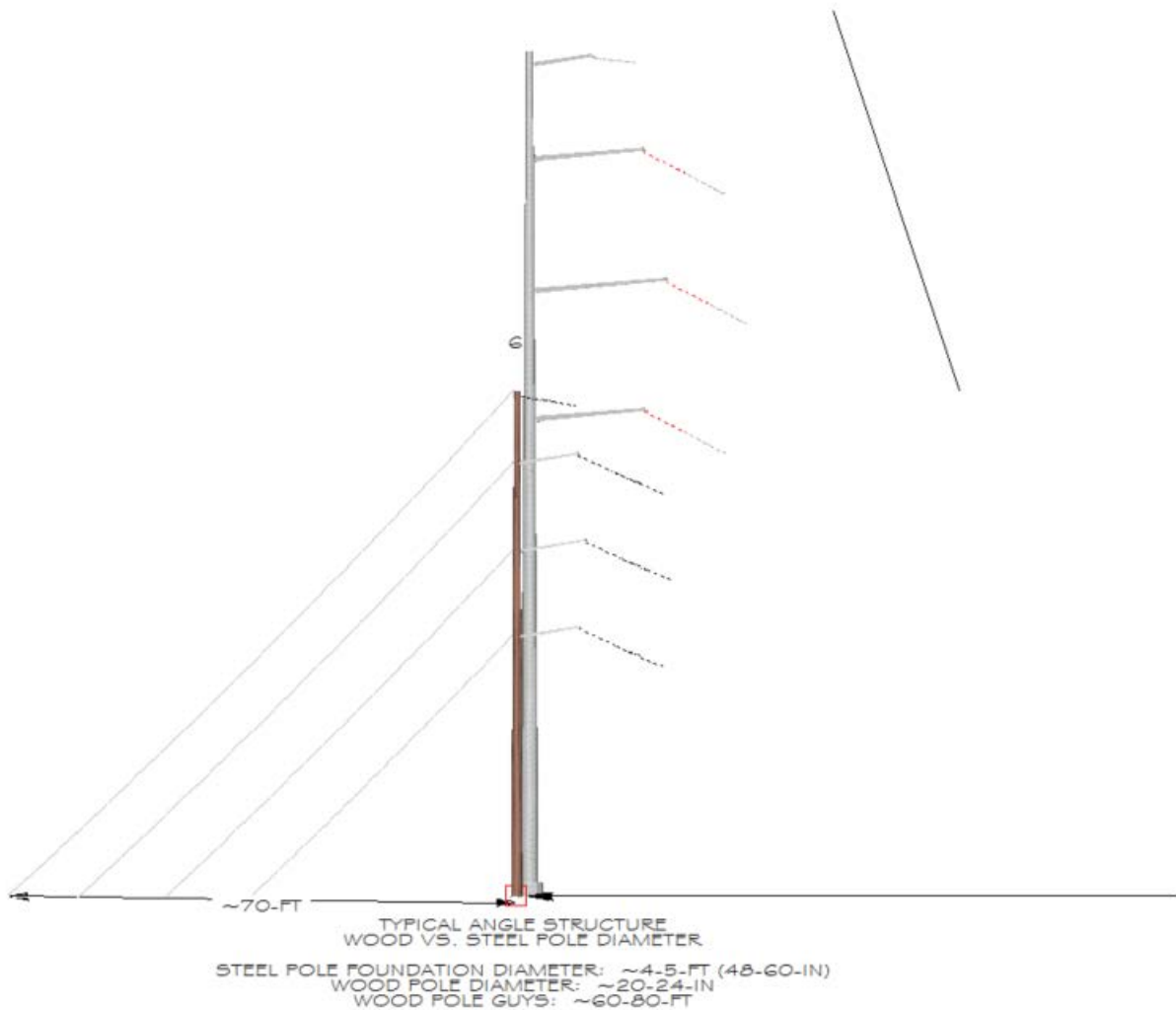


Figure 5

