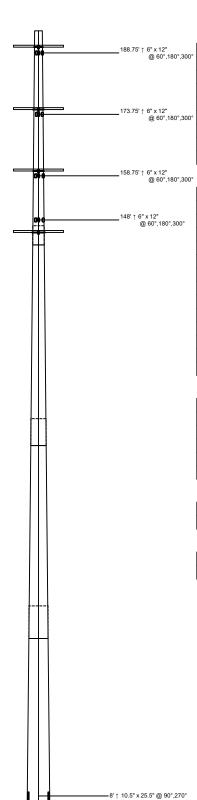
		SIZE	SIZES ARE PRELIMINARY AND MAY CHANGE UPON FINAL DESIGN	HANGE UPON FINAL DESIG	NS		
Length (ft)	53'-3"	/	236"	/	236"	/	52'-0"
Number Of Sides				18			
Lap Splice (ft)		8' - 0"		6' - 6"		A	
Top Diameter (in)	54.83"		44"		32.66"		21"
Bottom Diameter (in)			57.91"		46.57"		34.52"
Taper (in/ft)				0.26			
Grade				A572-65			
Weight (lbs)	23576		15455		10506		5454
Overall Steel Height (ft)				193			
_							



Designed Appurtenance Loading

Elev	Description Tx-Line			
190	Platform - 12' w/ Enhanced Support Rail			
190	(1) 30,000 sq. in. antenna loading (at top)	(12) 1 5/8"		
175	Platform - 12' w/ Enhanced Support Rail			
175	(1) 25,000 sq. in. antenna loading (below top)	(12) 1 5/8"		
160	Platform - 12' w/ Enhanced Support Rail			
160	(1) 25,000 sq. in. antenna loading (below top)	(12) 1 5/8"		
145	Platform - 12' w/ Enhanced Support Rail			
145	(1) 25,000 sq. in. antenna loading (below top)	(12) 1 5/8"		

Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	125 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	0.25 in
Risk Category	П
Exposure Category	D
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	87 ft
Seismic Importance Factor, le	1.00
0.2-sec Spectral Response, Ss	0.077 g
1-sec Spectral Response, S1	0.044 g
Site Class	D (DEFAULT)
Seismic Design Category	В
Basic Seismic Force-Resisting System	Telecommunication Tower (Pole: Steel)

Limit State Load Combination Reactions

Load Combination	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
1.2 D + 1.0 Wo	94.53	73.19	10746.65	18.33	10.95
0.9 D + 1.0 Wo	71.14	73.3	10573.38	17.94	10.69
1.2 D + 1.0 Ev + 1.0 Eh	95.74	2.36	396.24	0.72	0.43
0.9 D - 1.0 Ev + 1.0 Eh	69.55	2.38	389.47	0.7	0.42
1.0 D + 1.0 Wo (Service @ 60 mph)	78.85	15.11	2215.2	3.88	2.28

Base Plate Dimensions

Shape	Width	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Square	78"	2.75"	76"	28	2.25"

Material List

Display	Value
Α	4' - 9"

Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) Full Height Step Bolts
- This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2023 Florida Building Code.



Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814

-4' ↑ 10.5" x 25.5" @ 180°,360°

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Quote:	25-4717-JDS	
Customer:	NEXTOWER	
Site Name:	Windsor, FL NXFL-378	
Description:	194' Monopole	
Date:	4/11/2025 By: PC	Page: 1



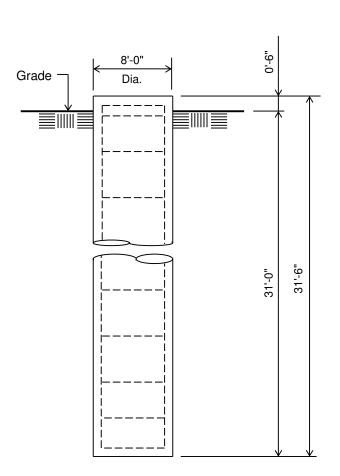
No.: 25-4717-JDS Date: 04/11/25

By: REB

Customer: NEXTOWER Site: Windsor, FL NXFL-378

194' Monopole

PRELIMINARY -NOT FOR CONSTRUCTION-



Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on presumptive sand soil as defined in ANSI/TIA-222-H-2017. It is recommended that a soil analysis of the site be performed to verify the soil parameters used in the design.

6) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

ELEVATION VIEW

(58.64 Cu. Yds.) (1 REQUIRED; NOT TO SCALE)

Rebar Schedule for Pier				
Pier	(48) #11 vertical rebar w/ #5 ties, (2) within top 5"			
FIEI	of pier, then 7" C/C			