

7/30/2024 RE: STRELO Ultra Well TX 212070 5700 E Saunders St Webb County

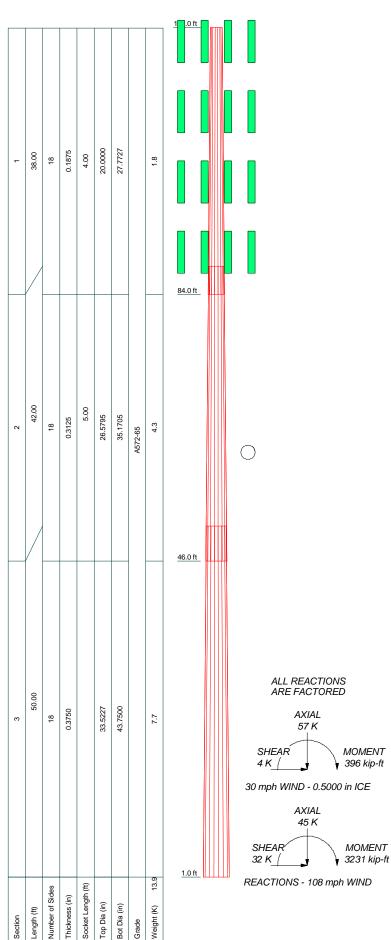
American Tower proposes a 122' Monopole Tower within a fenced compound at the above location that will be able to collocate up to 4 carriers. Tower Designs attached.

Thanks,

Lori Pritchett 07/30/2024

Lori Pritchett

Project Manager Site Development, West Region American Tower Corporation 281-622-0662 lori.pritchett@americantower.com



### **DESIGNED APPURTENANCE LOADING**

TYPE	ELEVATION	TYPE	ELEVATION
Antennas + Mount (EPA 175 ft2 / 5,200 lbs)	120	Antennas + Mount (EPA 150 ft2 / 4,700 lbs)	100
Antennas + Mount (EPA 175 ft2 / 5,200 lbs)	110	Antennas + Mount (EPA 125 ft2 / 4,500 lbs)	90

#### **MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

#### **TOWER DESIGN NOTES**

- Tower designed for Exposure C to the TIA-222-H Standard.
  Tower designed for a 108 mph basic wind in accordance with the TIA-222-H Standard.
  Tower is also designed for a 30 mph basic wind with 0.50 in ice. Ice is considered to increase in thickness with height.

- Deflections are based upon a 60 mph wind. Tower Risk Category II. Topographic Category 1 with Crest Height of 0.00 ft 6. Topographic Category 1 v7. TOWER RATING: 100%

#### **Additional Notes:**

- Bulk EPA wind loading takes no reductions for shielding or directional factors.
- Foundation designed to a maximum of 90% capacity

# Preliminary Design

## Not For Fabrication

Estimated Total Structure Wt. = 14903 lbs



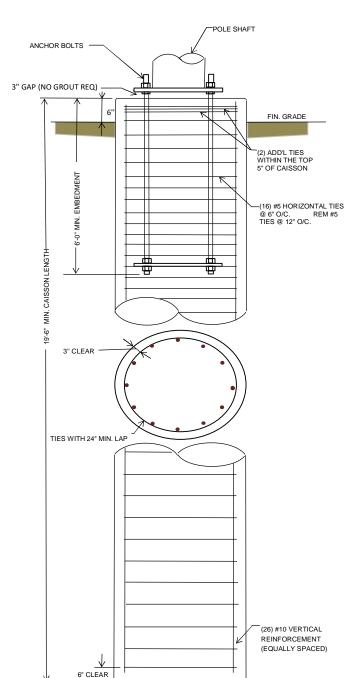
Design may not be used without written permission from Michael F. Plahovinsak, PE

BASE PLATE: 2.25" x 56.75" ROUND (50 KSI) ANCHOR BOLTS: (14) ANCHORS ON 50.75" B.C 2.25 in. A615 GR. 75 X 7'-0"

Michael Plahovinsak, P.E. 18301 State Route 161 Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com

<sup>lob:</sup> 122-ft Monopole - MFP #23524-318			
Project: 212070 STRELO Ultra Well			
Client: 24-0600	Drawn by: JC	App'd:	
Code: TIA-222-H	Date: 05/31/24	Scale: NTS	
Path: C:\Users\jorge\Dropbox\MFP Enginee	ring Files\Projects\235-TAPP\23524-318\235	Dwg No. E-1	

#### FOUNDATION NOTES:



6'-0" DIAMETER -

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT PROVIDED BY:

GEOTECH: TOWER ENGINEERING PROFESSIONALS

REPORT NO.: 339682.952583 REPORT DATE: 5/22/24

2. FOUNDATION CONCRETE STRENGTH SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI .

3. ESTIMATED CONCRETE VOLUME = 20 CUBIC YARDS.

4. ANCHOR RODS: 2 1/4"ø x 7'-0" LONG, WITH MIN.6'-0" EMBEDMENT INTO CONCRETE.

5. THE FOUNDATION WAS DESIGNED FOR THE FOLLOWING LOADS:

 MOMENT:
 3590 FT-KIPS

 SHEAR:
 36 KIPS

 AXIAL:
 45 KIPS

6. GEOTECHNICAL REPORT INDICATES GROUNDWATER MAY BE ENCOUNTERED AT 17 FT BELOW GRADE.

- PRELIMINARY FOUNDATION DESIGN - NOT FOR CONSTRUCTION

Michael F. Plahovinsak, P.E
18301 State Route 161 W
Plain City, OH 43064
Phone: 614-398-6250
email: mike@mfpeng.com

122-ft monopole - MFP #23524-318				
212070 STRELO Ultra Well				
TAPP	Mike			
TIA-222-H	05/31/2024			
PRELIMINARY FOUNDATION				