



***B. W. St. Clair***

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**WMDF-LD FI 130544  
Amendment**

This application moves the transmitter site to the building top in downtown Miami. The roof is an existing communications site and all local zoning and permits have been obtained.

Attached are drawings outlining the placement of the tower mounted to the side of the helipad structure. The tower extends 18 ft above the top of the helipad. The helipad is lined with antennas all the way around and the building is a major fixture in downtown Miami and is completely lit at night.

This amendment corrects the elevation data.

Respectfully submitted,

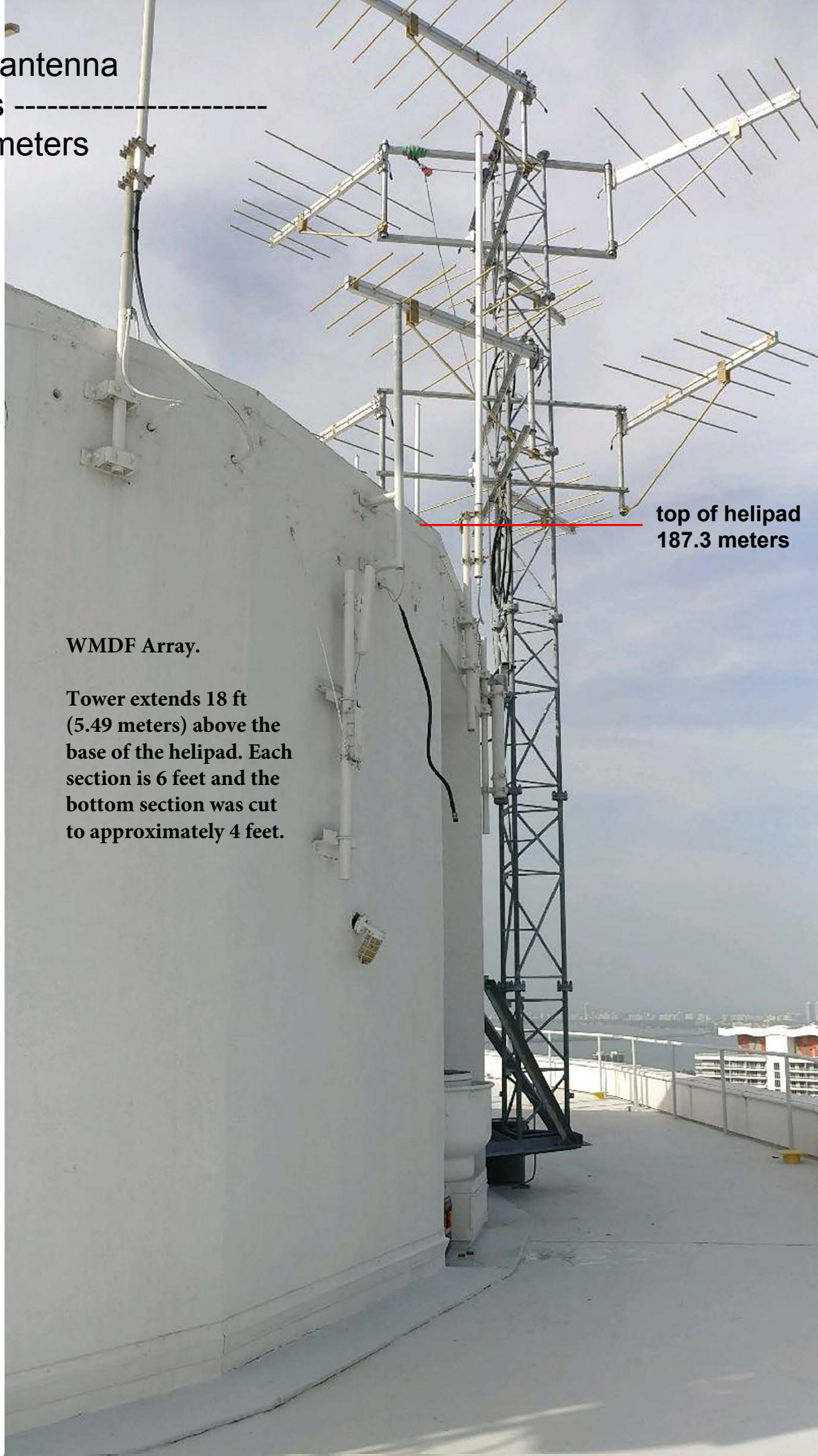
Susan Hansen  
Consultant  
August 12, 2020

Top of antenna  
array is -----  
192.8 meters

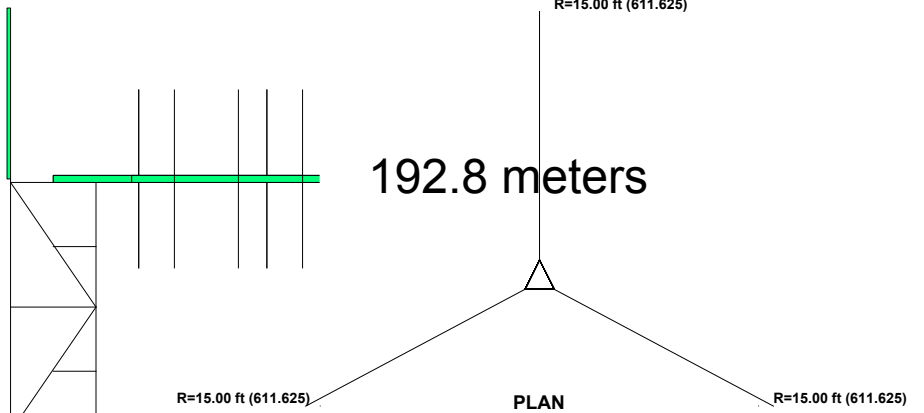
top of helipad  
187.3 meters

**WMDF Array.**

Tower extends 18 ft  
(5.49 meters) above the  
base of the helipad. Each  
section is 6 feet and the  
bottom section was cut  
to approximately 4 feet.



Section	T6	T5	T4	T3	T2	T1
Legs		SR 2			SR 1 3/4	
Leg Grade						
Diagonals						
Diagonal Grade						
Top Girts						
Bottom Girts						
Horizontals						
Sec. Horizontals						
Top Guy Pull-Offs						
Face Width (ft)						
# Panels @ (ft)						
Weight (K)						



DESIGNED APPURTENANCE LOADING			
TYPE		ELEVATION	
Lightning Rod		632.625	
CL46 2x44		CL46 2x44	622.625
CL46 2x44		CL46 2x44	622.625
CL46 2x44		CL46 2x44	622.625
CL46 2x44		CL46 2x44	622.625
CL46 2x44		CL46 2x44	622.625

MATERIAL STRENGTH					
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

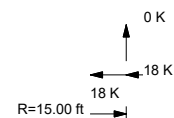
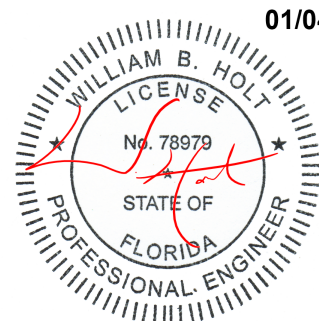
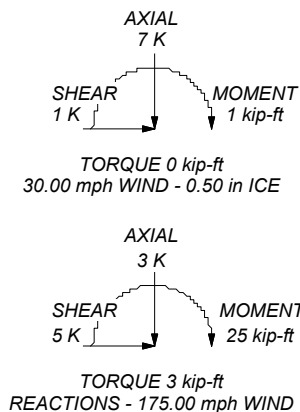
- ### TOWER DESIGN NOTES
1. Tower designed for Exposure C to the TIA-222-G Standard.
  2. Tower designed for a 175.00 mph basic wind in accordance with the TIA-222-G Standard.
  3. Tower is also designed for a 30.00 mph basic wind with 0.50 in ice. Ice is considered to increase in thickness with height.
  4. Deflections are based upon a 60.00 mph wind.
  5. Tower Risk Category II.
  6. Topographic Category 1 with Crest Height of 0.00 ft
  7. TOWER RATING: 72.8%

LC=13.85 ft IT=10%  
ALL REACTIONS  
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 16 K  
SHEAR: 2 K

UPLIFT: -8 K  
SHEAR: 1 K



ALL REACTIONS ARE FACTORED

**World Tower Company**  
 1213 Compressor Drive  
 Mayfield, KY  
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