CITY OF PORTLAND, MAINE · RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/27/17

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	81%	Pass
Diagonals	101%	Pass
Horizontals	87%	Pass
Guys	62%	Pass
Leg Bolts	66%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Base Axial (kips)	355.8	111%
Anchor 1 Uplift (kips)	100.3	40%
Anchor 1 Shear (kips)	65.8	82%

The structure foundation was found to be inadequate through analysis based on geotechnical and foundation information. Modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
260.0	Andrew ETW200VS12UB	T-Mobile	0.180	0.029	0.021
	RFS ATMA4P4DBP-VA20				
	Ericsson Radio 4478 B71				
	Radio Waves G3-2.4				
	RFS APXVAA24_43-U-A20				
230.0	Radio Waves HPD6-4.7NS	US Dept. of Homeland	0.163		0.050
142.0	Radio Waves HPD4-4.7		0.111		0.044

***Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G**