

Direct-Bury Tower (6.0"OD)



Product Summary:

EasyStreet Systems provides a game-changing solution to 5G/small cell infrastructure demands—at a fraction of current construction methods.

Imagine a tower that can be easily installed into a 12" dia. bored-hole, secured with a 2-part foam mixture, set with a light-duty boom-truck, and blend with the surrounding aesthetic. Our product is light-weight, customizable and impacts the environment much less than traditional solutions. A 20'H EasyStreet direct-bury 6.0" Outer Diameter (OD) tower weighs ~100 lbs. as opposed to ~1,000 lbs for a steel tower, cutting installation costs significantly. The tower and foam-kit are all provided in an all-inclusive and easy to use kit.

Specifications

Applications:	4G/5G Small-Cell as well as Internet of Things (IoT) sites
Height Ranges:	20' typical (above grade; up to 10' embedment) but can be lower
Weight (Lbs.):	20'H above ground level (~28' total): 100
Outer Diameter:	6.0" Standard OD (5.5" ID)
Cable-Access:	5"H x 2.5"W handhole with secure cover 14" above grade
Conduit-Entry: (Below Grade)	5"H x 2.5"W oval port for conduit-routing (factory-installed or easily field-configured with standard tools)
Colors:	Gray, Black, Brown & Dark Green standard (custom available)
Construction:	Patented composite structure with reinforced UV-resistant coating.
Equipment:	Accommodates all Small Cell, Microwave and IoT equipment
Wind Speeds:	Up to 180 mph (depending on loading)
Structural:	Analysis per TIA-222, AASHTO and local building codes
Electrical:	Hand-hole and conduit-port available for routing power, fiber & data cables.

Contact us at:

EasyStreet Systems, Inc.
6021 E. Mansfield Ave.
Spokane, WA 99212
easystreetsystems.com

20'H 9.75" Diameter Base-Flange product shown to demonstrate how lightweight it is



Hurricane resistant composite-based direct-bury tower

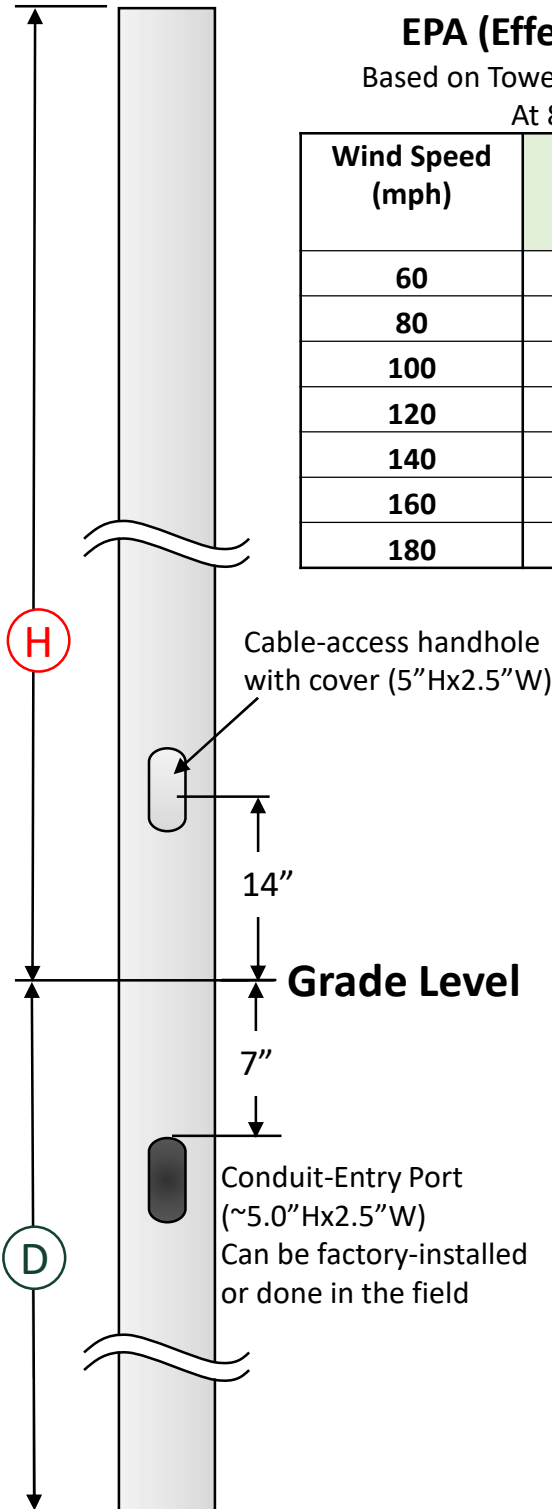
Height (H)	Depth (D)	Diameter	Standard Colors	Customer Options
15: 15' above grade	4: 4' embedded	6: 6.0" OD	G: Gray	Various light-mounts,
20: 20' above grade	6: 6' embedded		B: Black	luminaires, toppers,
25: 25' above grade	8: 8' embedded		N: Brown	IoT equipment, etc.
Custom Heights up to 25 Ft	Custom available		R: Green	

EPA (Effective Projected Area) Capacities for 20'H Towers

Based on Tower Overturning-Moment (OM) Load Capacity of 8,000 Ft-Lbs (8 Kip-Ft)

At 8,000 Ft-Lbs, there can be up to a 7% deflection at the tip

Wind Speed (mph)	20'H Above Grade Total EPA (SqFt) Pole + Equip	30'H Above Grade Total EPA (SqFt) Pole + Equip
60	85.5	57.0
80	48.1	32.1
100	30.8	20.5
120	21.4	14.2
140	15.7	10.5
160	12.0	Not Usable
180	9.5	Not Usable



Direct-Bury Foundation Capacity*

(Based on Soil Types and Overturning-Moment Capacity)

*Engineering study and data provided by Paul J. Ford Professional Engineering



Non-Cohesive Soils							
	Soil Properties			Foundation Depths (Ft) for Listed Applied Moment			
	Unit Weight (pcf)	Friction Angle (degree)	Cohesion (psf)	2 kip*ft	4 kip*ft	6 kip*ft	8 kip*ft
Poor	90	26	0	5.75	6.50	7.00	7.50
Average	110	30	0	5.25	5.75	6.25	6.50
Good	130	34	0	4.50	5.00	5.50	6.00

Cohesive Soils							
	Soil Properties			Foundation Depths (Ft) for Listed Applied Moment			
	Unit Weight (pcf)	Friction Angle (degree)	Cohesion (psf)	2 kip*ft	4 kip*ft	6 kip*ft	8 kip*ft
Poor	90	0	250	5.75	6.75	7.50	8.00
Average	110	0	600	4.00	4.50	5.00	5.25
Good	130	0	1000	4.00	4.00	4.00	4.25

Notes:

1. Foundation depth calculated for 12" dia. hole with foam backfill
2. Water table is assumed to be below the depth of the foundation
3. Frost depth is not considered