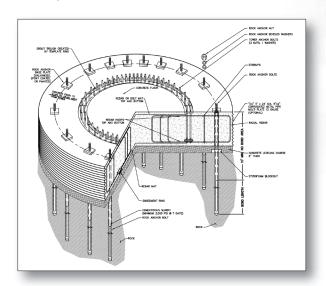
ANCHOR DEEP FOUNDATIONS

Advantages

- Ability to support the largest available turbine systems
- Anchor foundation systems excel in every soil type (See table A, page 2)
- Reduced footprint and site disturbance
- Reduction and potential elimination of blasting requirements
- Increased stiffness and long-term reliability
- Maximizes material and resource efficiencies
- Superior for mountain and remote access sites





= Not recommended

Rock Anchor Deep Foundation BRITISH COLUMBIA ALBERTA ASKARCHEWAN MANITOBA ONTARIO ONT

Helical and Soil Deep Anchor Foundation BRITISH OOLUMBIA ALBERTA ASSATCHEWAN MANITOBA ONTARIO QUEBEC NV AZ NV AZ







= Soil Anchor

Black











Site Conditions						
Site Conditions	Tensionless Pier Foundation (Deep)	Rock Anchor Foundation (Deep)	Soil Anchor Flight Auger (Deep)	Soil Anchor Auger Cast Pile (Deep)	Soil Anchor Helical (Deep)	Gravity Spread Foundation (Shallow)
Valley/Plains	В	Not Recommended	В	А	Α	В
Hills	А	С	А	В	В	В
Mesa	Α	Α	D	Not Recommended	Not Recommended	В
Mountain	А	Α	Not Recommended	Not Recommended	Not Recommended	С
Ground Conditions						
Hard Rock	А	Α	Not Recommended	Not Recommended	Not Recommended	С
Soft Rock	А	A-	С	Not Recommended	D	В
Very Dense/Hard Soil	А	Not Recommended	Α	D	С	B+
Soil with Boulders and Cobbles	A-	Not Recommended	Not Recommended	Not Recommended	Not Recommended	В
Soil Dry to Moist	A-	Not Recommended	A-	D	А	В
Silty Soil Dry to Moist	B+	Not Recommended	B+	В	A-	B-
Clay Soil Day to Moist	A-	Not Recommended	С	D-	С	В
Granular Soil Shallow Ground Water	D	Not Recommended	Not Recommended	А	А	C+
Silty Soil Wet	D	Not Recommended	D	D	В	C+
Clay Soil Wet	C+	Not Recommended	D	D	В	В
Organic Soil	D	Not Recommended	С	В	В	C+
Combined Ground Conditions						
Soil Over Shallow Rock	А	А	Not Recommended	Not Recommended	Not Recommended	В
Soil Over Deep Rock	B+	С	D	Not Recommended	Not Recommended	В
Intermittent Soil and Rock	B+	A-	Not Recommended	Not Recommended	Not Recommended	B+
Landfill Over Rock	Not Recommended	A*	Not Recommended	Not Recommended	Not Recommended	D
Landfill Over Soil	Not Recommended	Not Recommended	Not Recommended	Not Recommended	A*	D
Mine Spoil	В	D	Not Recommended	Not Recommended	Not Recommended	С
Hazardous Conditions						
Seismic	А	Α	Α	А	Α	D
Liquefaction	А	n/a	Not Recommended	А	А	Not Recommended
Flood Water Inundation	Α	Α	Α	Α	Α	С
Flood Scour and Erosion	А	А	Α	Α	А	D
Storm Surge	Α	Α	Α	Α	Α	D
Frost Depth	А	Α	B+	B+	B+	С
Creeps and Landslide	С	D	D	С	С	Not Recommended
Water Sensitive Collapsible Soil (Loess)	А	Not Recommended	Α	С	А	D
Remediation						
Stability/Tilt Pressure Grouting	В	В	В	В	В	С
Structural Concrete Addition Stability/Tilt	В	С	В	В	В	D
Anchor Addition Stability/Tilt	С	Α	Α	Α	Α	С
Corrosive Conditions	В	В	В	В	В	В
Longevity						
Fatigue Failure	Α	B+	В	В	В	D
Post Tensioned by Horizontal Reinforcing	n/a	А	А	А	А	С

^{*} Coupled with Compression Pipe Pile







