



NORTH AMERICAN DRILLERS

MINING APPLICATIONS

**World Leader In The Development
Of Mechanically Excavated Large
Diameter Shafts Utilizing
Blind Bore Drilling Techniques**

**Shaft Development Approaching
20' In Diameter And 2000' In Depth**



Shaft Applications Include:

- Access / Egress, Intake / Exhaust, Exploration, Utilities, And More

Unmatched Technology Paired With An Unwavering Dedication To Excellence

Blind Bore Drilling:

- Safest Means - All Work Safely Executed From The Surface
- Utilized In Complex Geologies
- Pre-Excavation Grouting Reducing Surface And Strata-Related Risks
- Capable Of Operating Small Urban Footprints

Directional Drilling:

- Proprietary Optical Drilling Technology
- Real-Time Monitoring And Steering
- Precision Drilling Deviation Less Than 1" in 550'

NAD approaches each project as a collaborative team effort working closely with the client to minimize the inherent risks of subsurface construction and maximizing the construction dollar.

Project Execution Typically Includes:

- Pre-Excavation Grouting Techniques Enhance Ground Stability
- Surface Casing Provides Access Through The Overburden
- Pilot Hole Development:
 - Controls Vertical Alignment
 - Verifies Pre-Excavation Grouting Program
- Shaft Reaming Process Utilizes Reverse Circulation Drilling
- Steel Shaft Lining Is Installed Safely From The Surface
 - Eliminates Need for Water Rings
 - Superior Ventilation Properties (Optimal K Factor)
- Tremie Grouting Of Annulus Secures Lining In Its Final Position



NAD's highly skilled engineers and qualified field personnel ensure accurate analysis and swift response across the globe. When complex geologies require cost effective and customized design alternatives, NAD personnel are well positioned to develop and fabricate the custom tools necessary to ensure success.

NAD provides a wide range of shaft solutions to the global market. Contact our team today to learn more.

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