

# Lateral Pipe Bursting Technologies



**TT Technologies**

# ***TT Technologies, Inc.***

## Company Profile

- Trenchless construction equipment manufacturer
  - Pipebursting, Pipe Ramming, Horizontal Boring, Horizontal Directional Drilling, Etc.
- Trenchless is our **ONLY** business
  - Has been since 1991 (TT founded)
  - Technologies and experience since 1962
- Trenchless equipment used for:
  - Gas, Electric, Telecom, Water (sanitary, drinking and storm)

# JOB SITE LAYOUT

Positioning launch &  
exit pits

Traffic flow

Safety

Good communication

Minimal disruption

# HOST PIPE

VCP – Vitrified Clay Pipe

Cast Iron (no repairs)

Concrete (Non-reinforced)

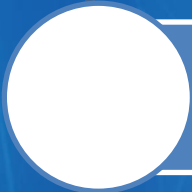
PVC (Poly Vinyl Chloride)

Asbestos Cement

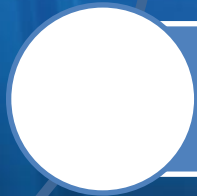
# LATERAL BURSTING



Mini-Tools



“Box” System



“Tug” System

# LATERAL BURSTING

*Hydraulically &  
Pneumatically  
Powered*

*Used in Various  
Situations*

*With Various  
Pipe Materials  
&  
Diameters*

*All Highly  
Portable &  
Powerful*

# Mini-Tools

*Compact,  
Rear  
Expander*

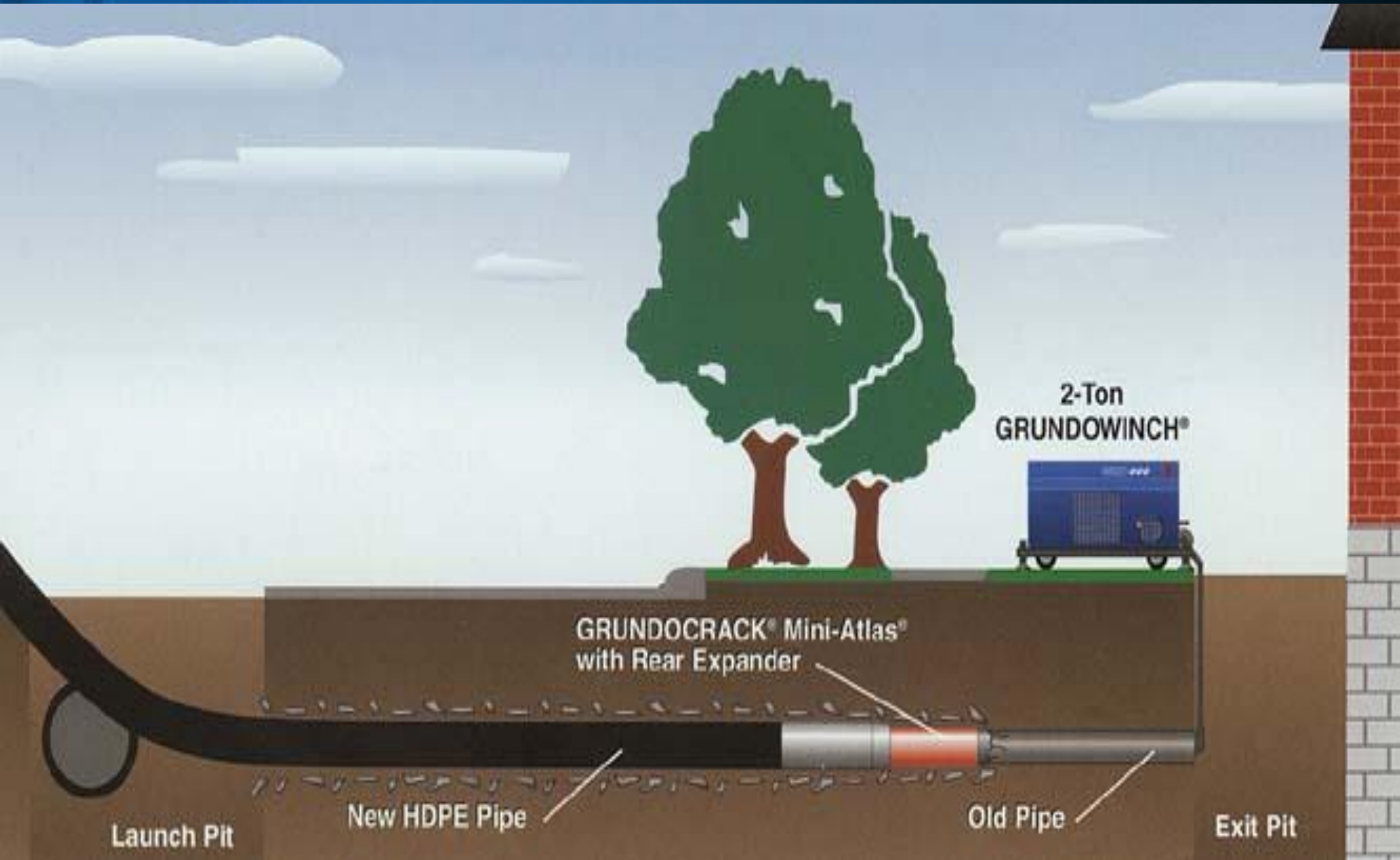
Tools 5 to  
10 inches  
in  
Diameter

Compact  
2-ton  
Capacity  
Winch

Laterals or  
Main Line  
Bursting



# MINI-TOOLS





# Pneumatic “Box” System

*Straight Barrel or Rear  
Expander*

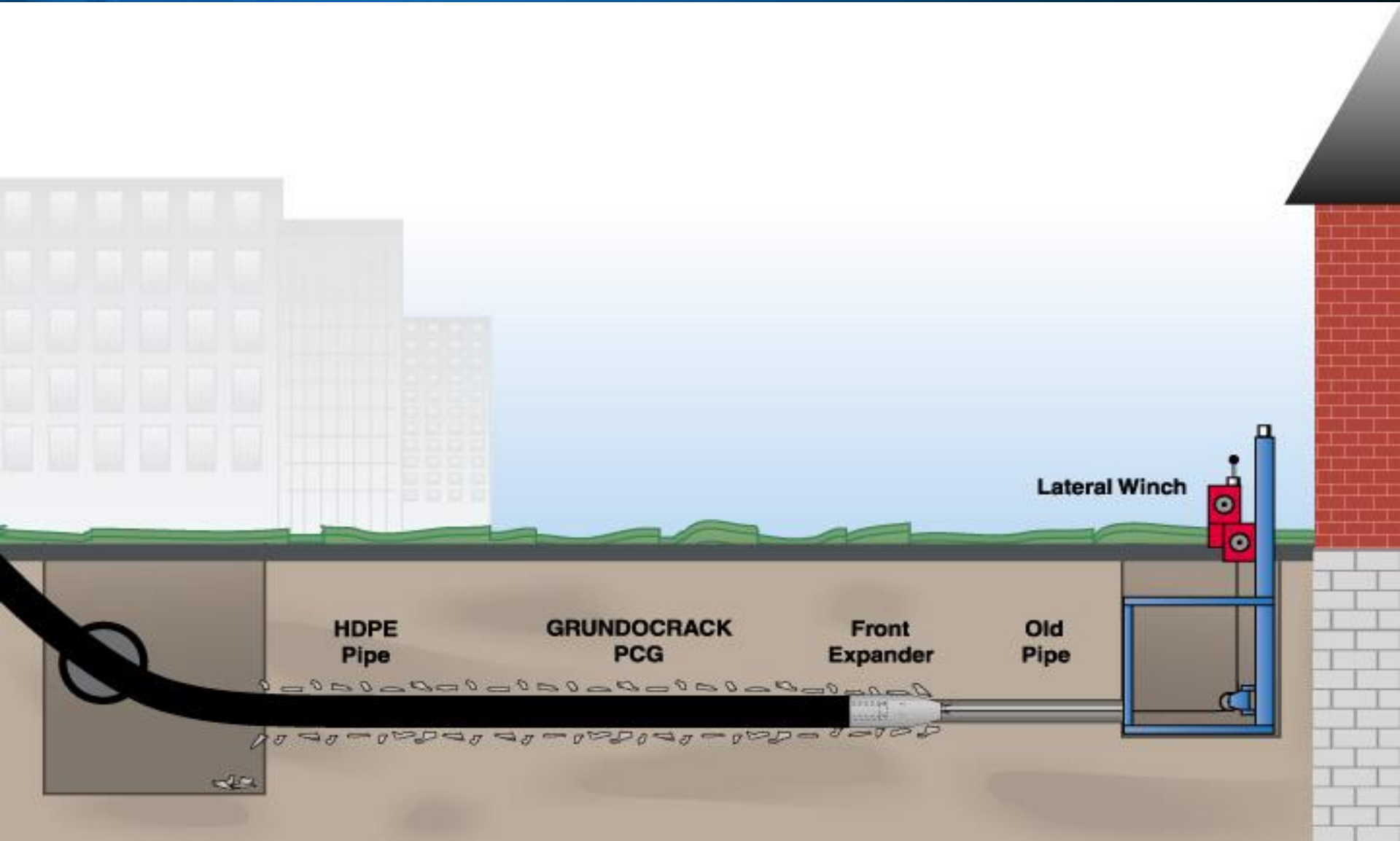
Various Sizes

Compact Pneumatic Winch

4-in. to 4-in., 4-in. to 6-in. &  
6-in.  
to 6-in.

Up to 150-ft. Runs

# “BOX” SYSTEM















# Static “Tug” System

*Hydraulic  
“Tugger” Winch*

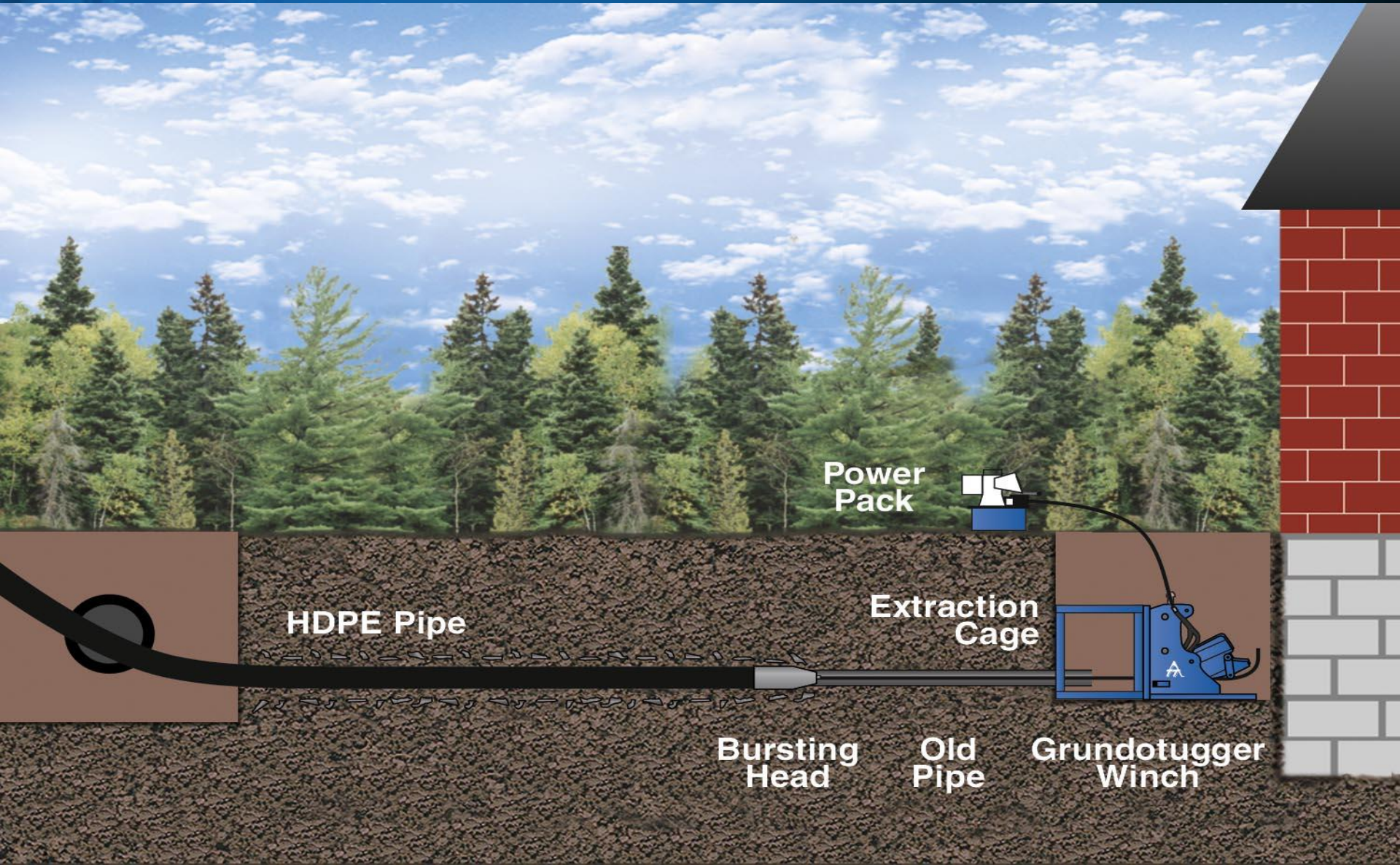
Fuse Pipe While  
Bursting

Negotiate 45°  
Bends

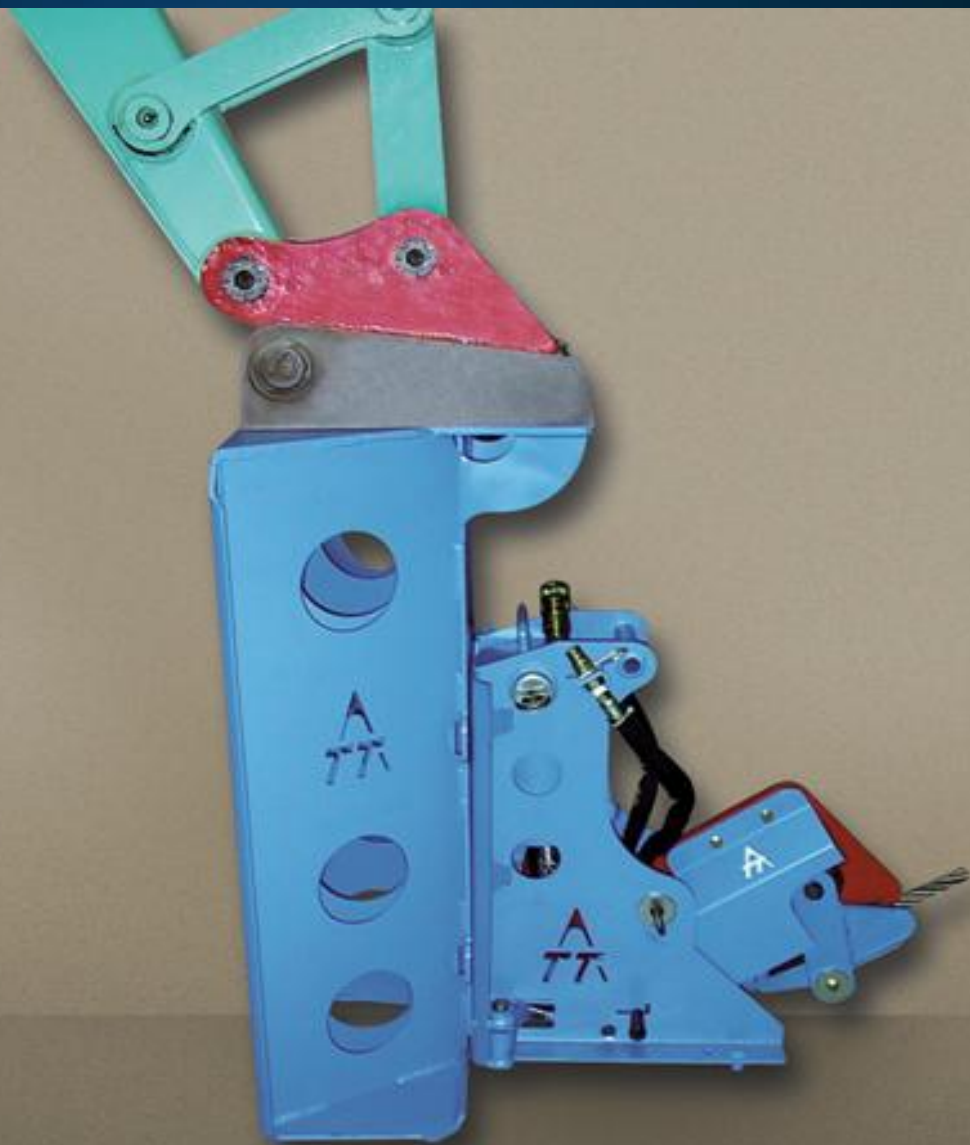
4-in. & 6-in.  
Laterals

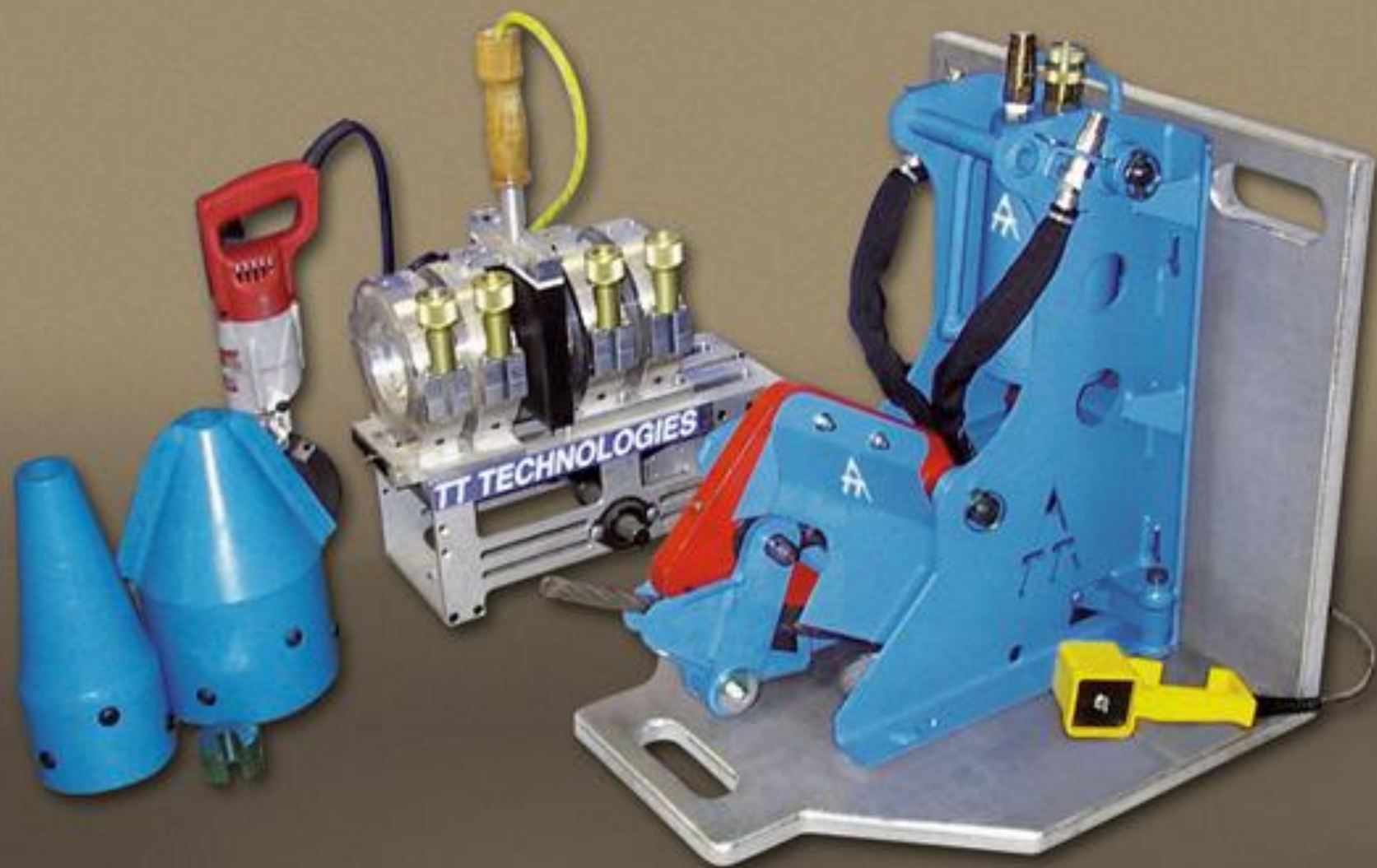


# “TUG” SYSTEM

















# CASE STUDY REVIEW



**Case  
Study  
#1**

**Dayton, OH**

80-ft. sewer lateral

4-in. VCP & PVC to 4-in. HDPE

Grundotugger Static Bursting System

6-inch bursting package

*Location, Tree Root Intrusion*



































**Case  
Study  
#2**

**Spokane, WA**

60-ft. sewer lateral

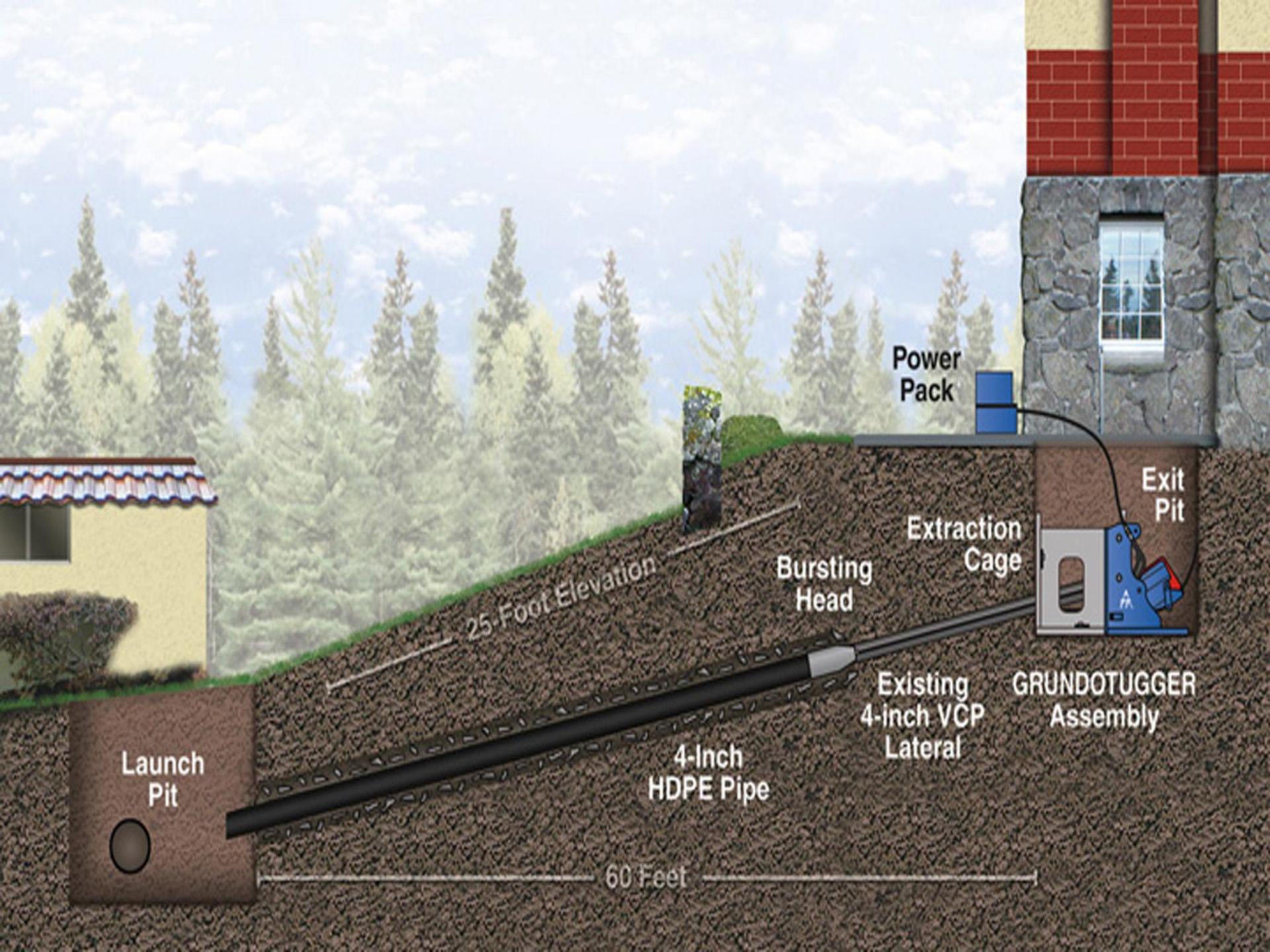
4-in. VCP to 4-in. HDPE

Grundotugger Static Bursting System

6-inch bursting package

*Location, Landscaping, Elevation*

*Notable:*



Power Pack

Exit Pit

Extraction Cage

Bursting Head

25-Foot Elevation

GRUNDOTUGGER Assembly

Existing 4-inch VCP Lateral

4-Inch HDPE Pipe

Launch Pit

60 Feet

















**Case  
Study  
#3**

**Mobile, AL**

110-ft. sewer lateral

4-in. Cast Iron to 4-in. HDPE

Grundotugger Static Bursting System

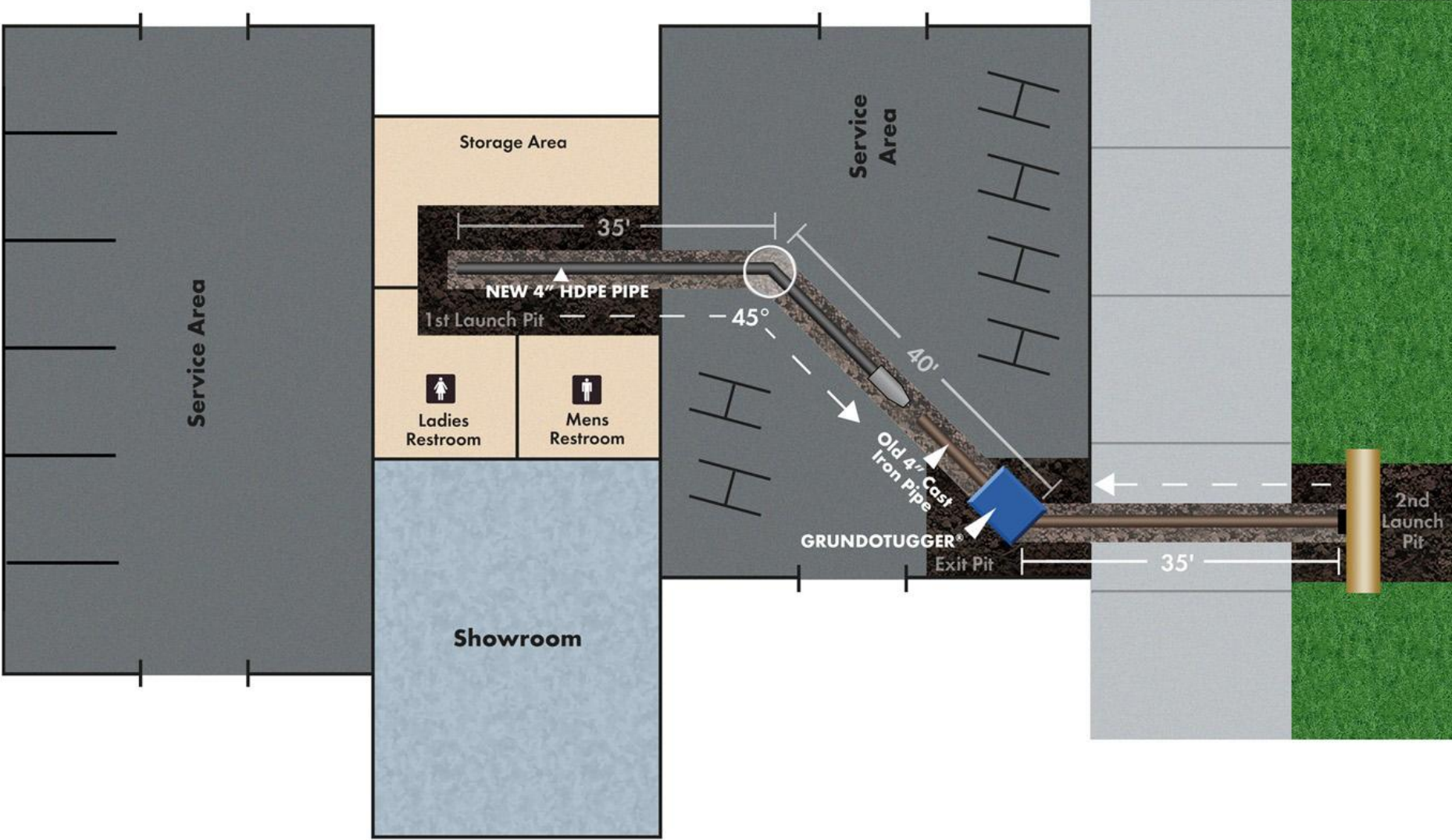
6-inch bursting package

*Location, 45-degree turns, Time Frame*

*Notable:*



# AUTOMOTIVE SERVICE CENTER











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