6000’ - 96”Φ (Diameter)
Sixty 6” – 60”Φ Field Connections to 2000’ 102”Φ During 35 Day Turnaround in Tunnel
Economies of Steel

- Steel Pipe Construction 144” Φ & Greater
- Economy in Installation
- Longer Length Reduces Number of Field Joints
- Lighter Weight than Concrete
- Homogeneous Structural Composition
- Precision Rolled to Any Diameter
Penstock 7000’ – 90”Φ
**Strength of Steel**

- High Ductility
- Flexible Pipe Design – Works in Combination with the Soil
- High Strength – Handles High Working Pressures & Surges
- Great for Horizontal Directional Drilling
120” Φ Expansion Joint
12,000’ of Pipe
Almost Done!  90” Penstock
Install it Anywhere

• Underground or Aboveground
• Tunnels
• Power Plants & Penstocks
• Under Bridges
• Inside Structures
• Etc.
39,000’
84” Steel Pipe
152”Φ Steel Pipe Lowered 250’ into Shaft of Tunnel
54” Pipe Inside Structure

48” Φ Pipe Hangs on Bridge
Cooling Tower Connection

Field Joint
Steel Pipe Design is Adaptable

• Pre-Fabricated Fittings Customized to any Dimension
• Can be Easily Modified in the Field
60" Φ Pipe in Valve Vault
Connecting Water Main to Water Treatment Plant - 180” Diameter Steel Pipe
Special Fittings to Handle Large Thrusts
Adaptability of Steel Pipe
Steel Pipe Welded Joints

- Water Tight
- Welded Joints Provide Restraint from Full Thrust Forces & Zero Leakage
- Great Beam Strength
- Single Lap Welds are Normally Adequate
- Capable of Being Welded After Bedding & Backfilling
30,000’
120” Φ Pipe

Inside Pipe Weld
Field Joining Operations
Corrosion Resistant

- Tape Wrap Coatings
- Polyurethane Linings & Coatings
- Cement Mortar Linings & Coatings
- Assured Corrosion Protection
- Does Not Fail Catastrophically
54” Φ
60,000’
30” to
108” Φ Pipe