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Annex 3.4 - Technical Drawings, Construction Activities
**Pipe Stringing**

**Pipe Bending**

**Pipe Welding**

**Motor Driven Welding Machine**

Source: Timberpro.com 2012 (retrieved November 2012)

Source: ERM SpA (December 2011)
Typical Trench for 48” Pipeline

NOTES:

A: ANGLE OF REPOSE OF SLOPE OF PIPE TRENCH DEPENDING ON SOIL CONDITIONS
60° IN ROCKS.
60° IN LEAST STIFFNESS COHESIVE SOIL LAYER
45° IN NON COHESIVE OR SOFT COHESIVE LAYER

B: HAS TO BE ADVISED BY CONSTRUCTION SUPERVISOR.
Examples of Hydraulic Breakers

Examples of Trenchers

Wheel Trencher

Chain Trencher

Example of Ripper attached to back of Bulldozer

Examples of Excavators

Trans Adriatic Pipeline (TAP)
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SOURCE (All Images): 
ILF (2012) Generic Description of Excavation Methods – 2012-02-10 – Ref. CPL00/ILF-100-F-TRS-0001_0D