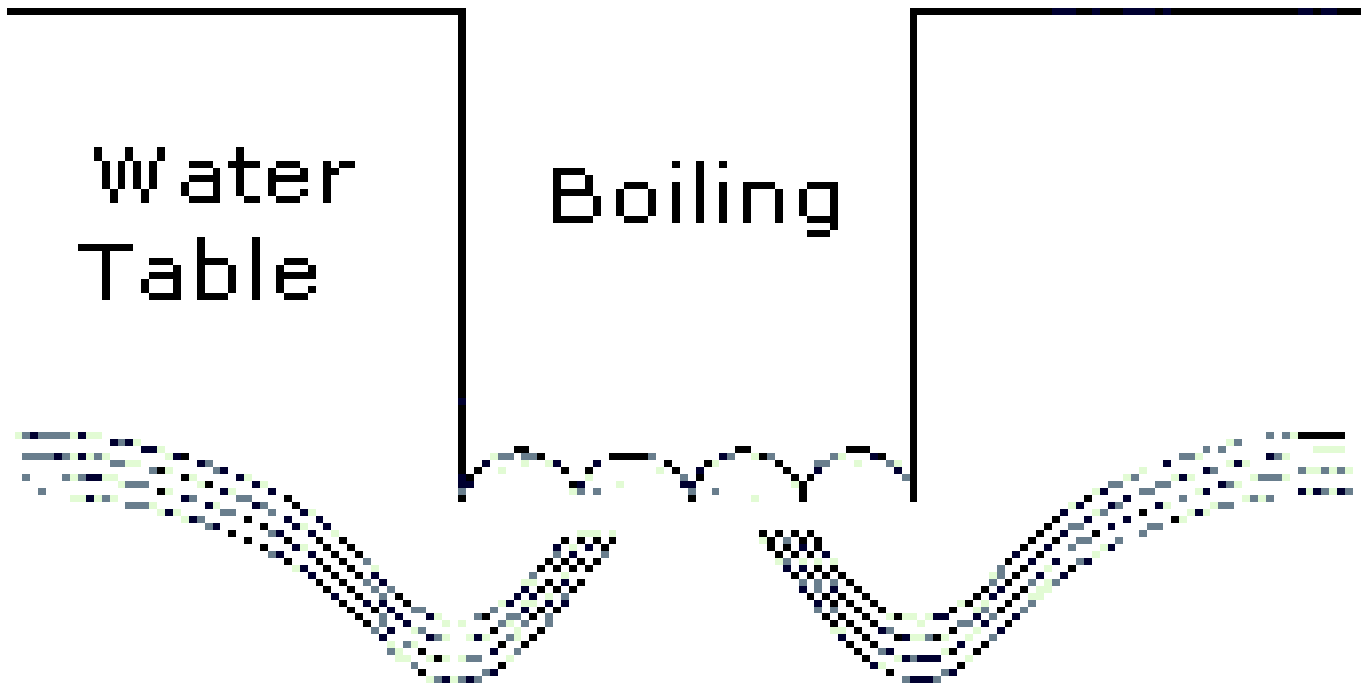
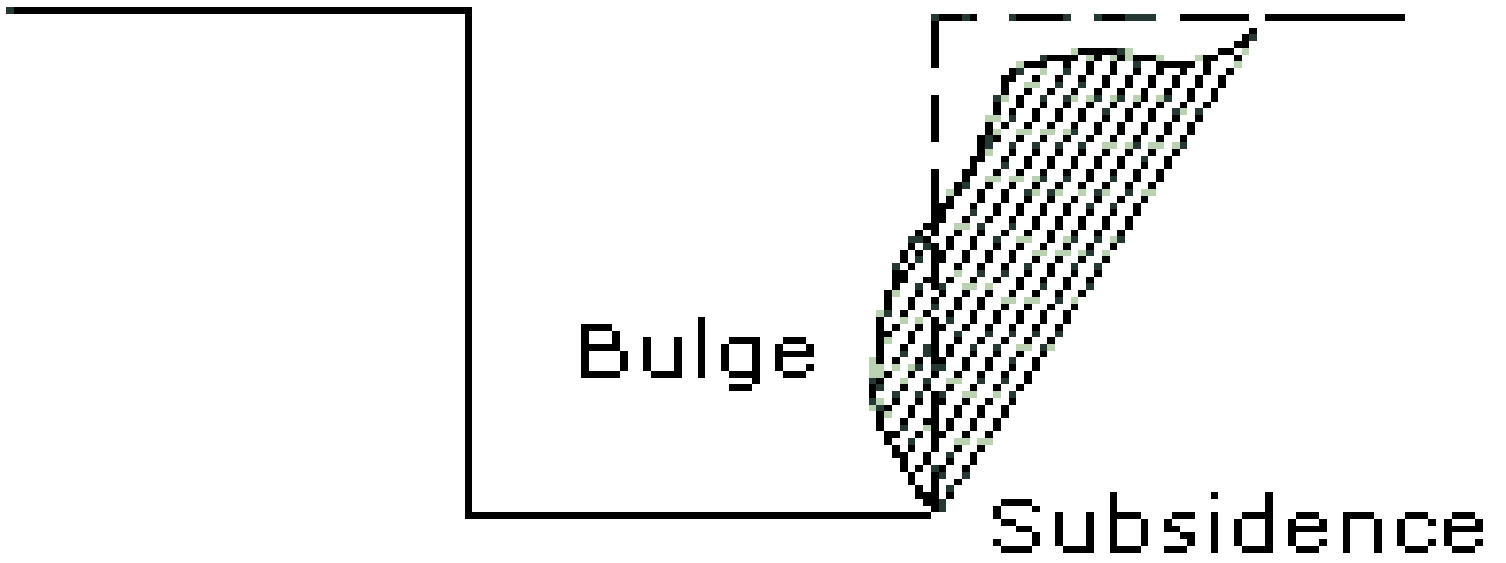


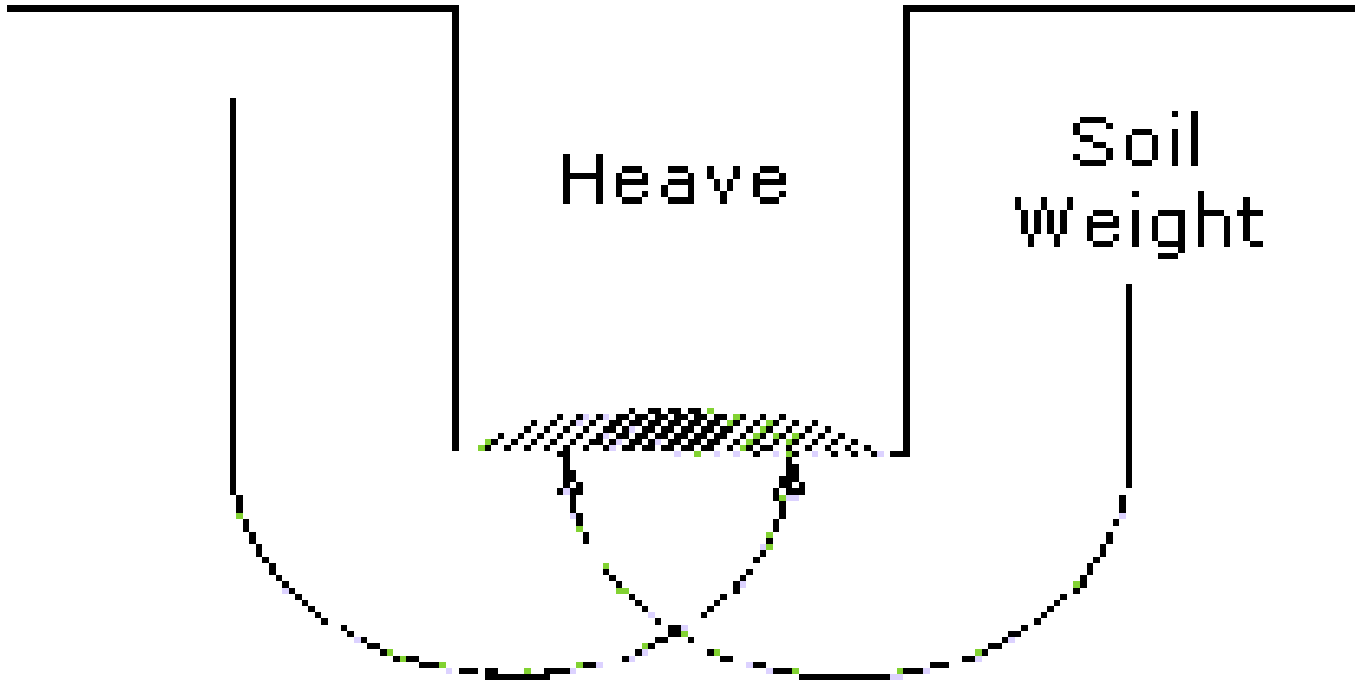
BOILING



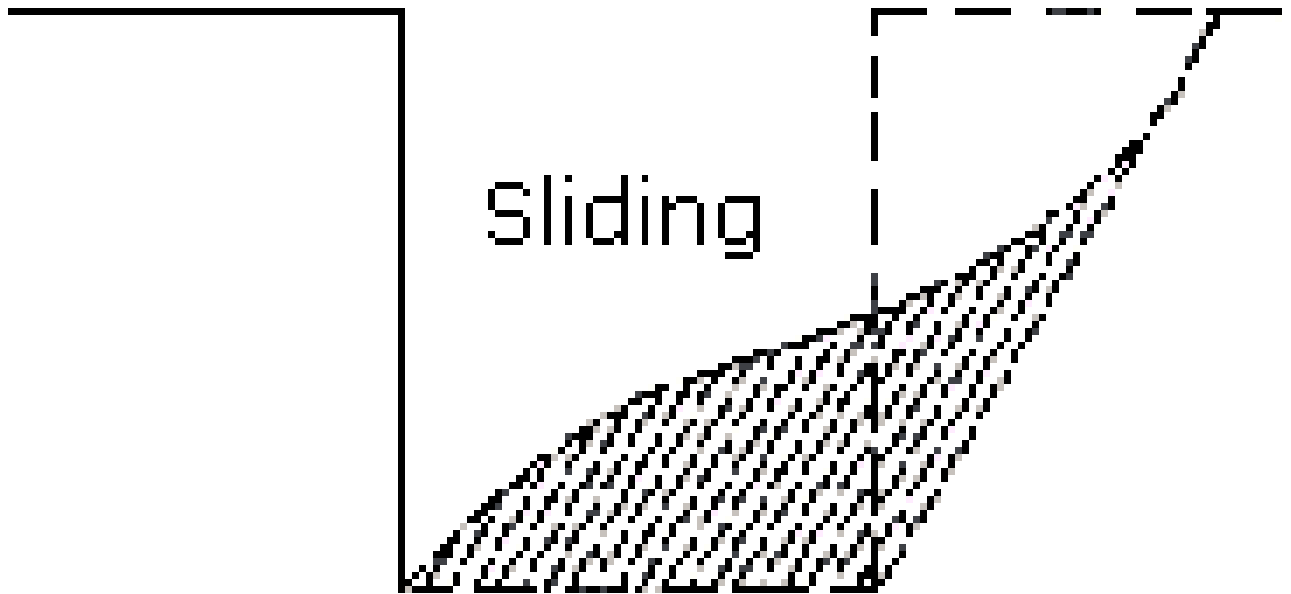
BULGE AND SUBSIDENCE



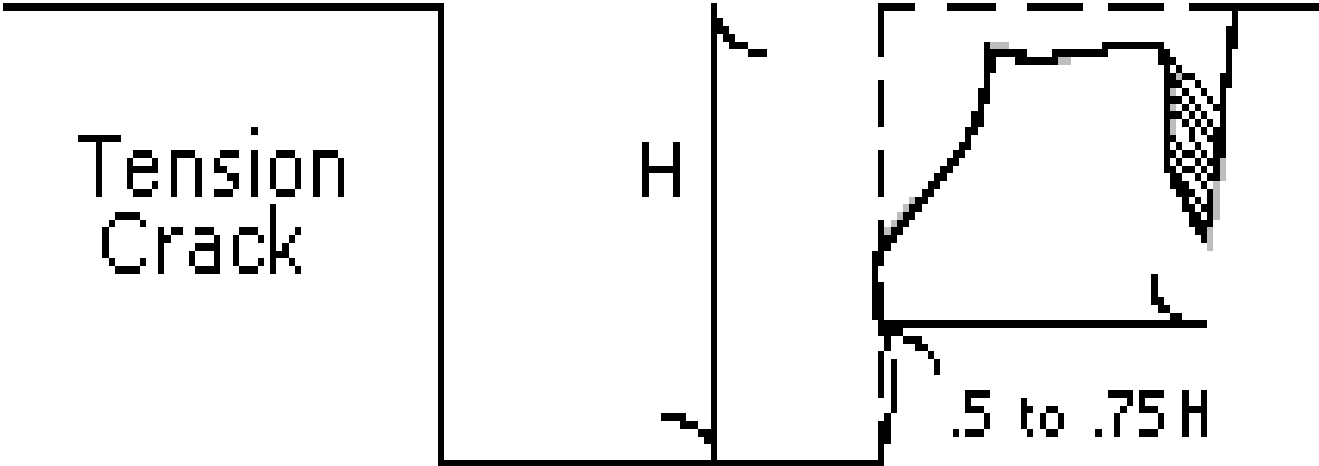
HEAVE AND SOIL WEIGHT



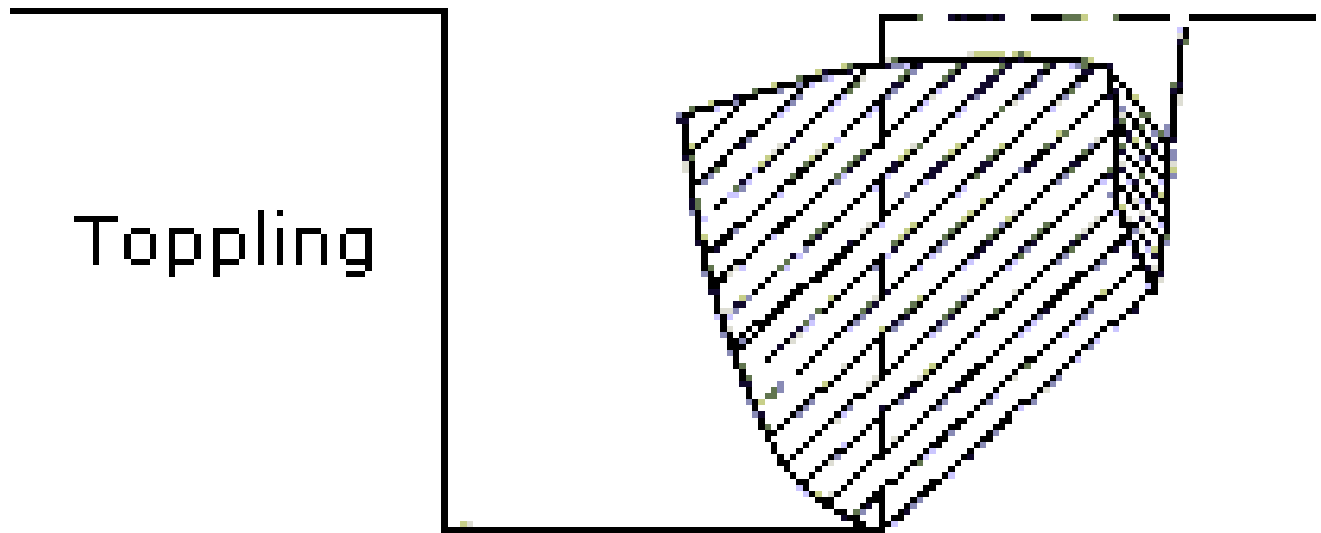
SLIDING



TENSION CRACK

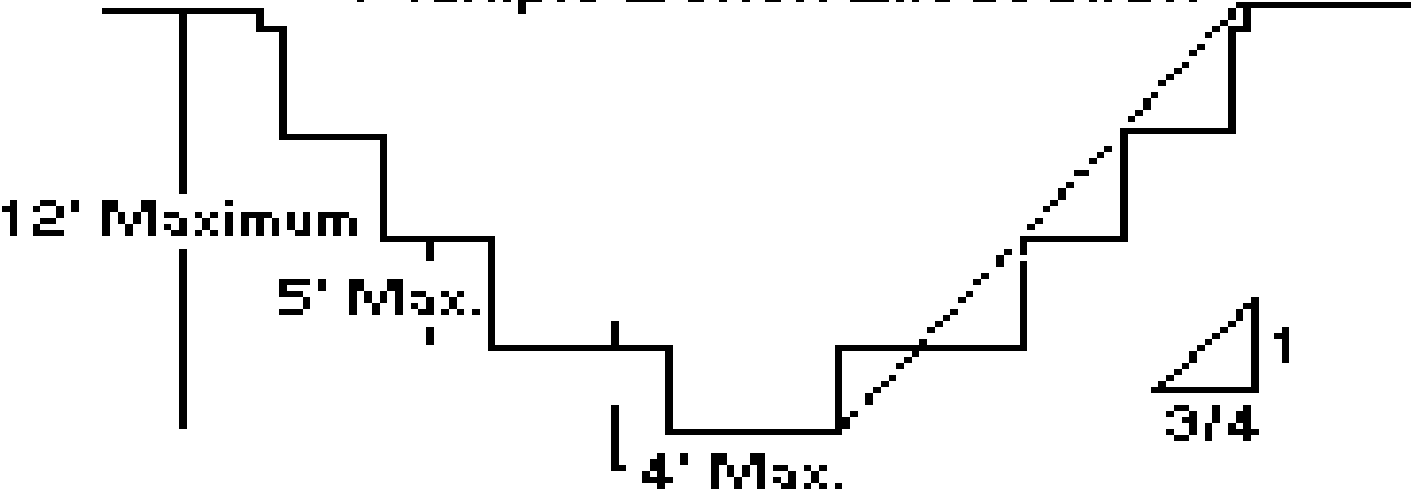


TOPPLING



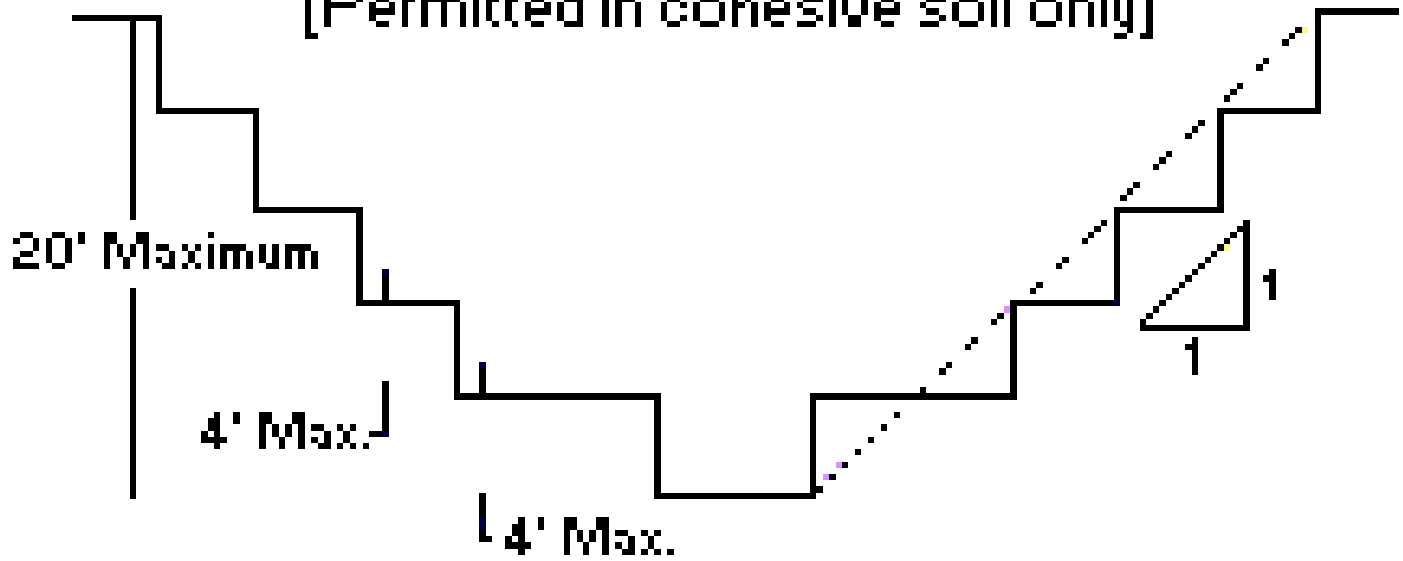
MULTIPLE BENCH EXCAVATION TYPE A SOIL

TYPE A SOIL
Multiple Bench Excavation



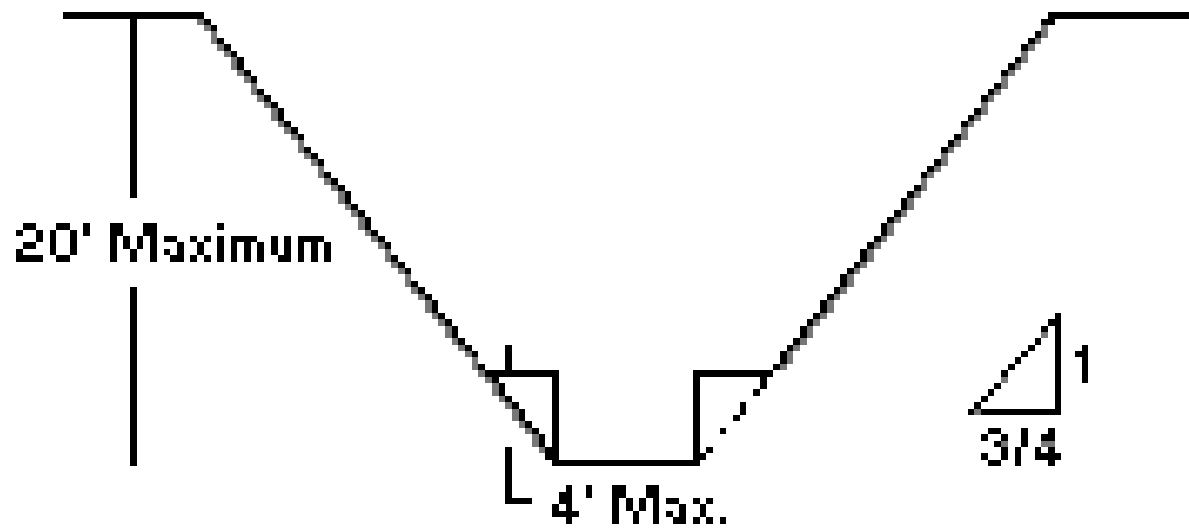
MULTIPLE BENCH TYPE B SOIL

TYPE B SOIL
Multiple Bench Excavation
[Permitted in cohesive soil only]



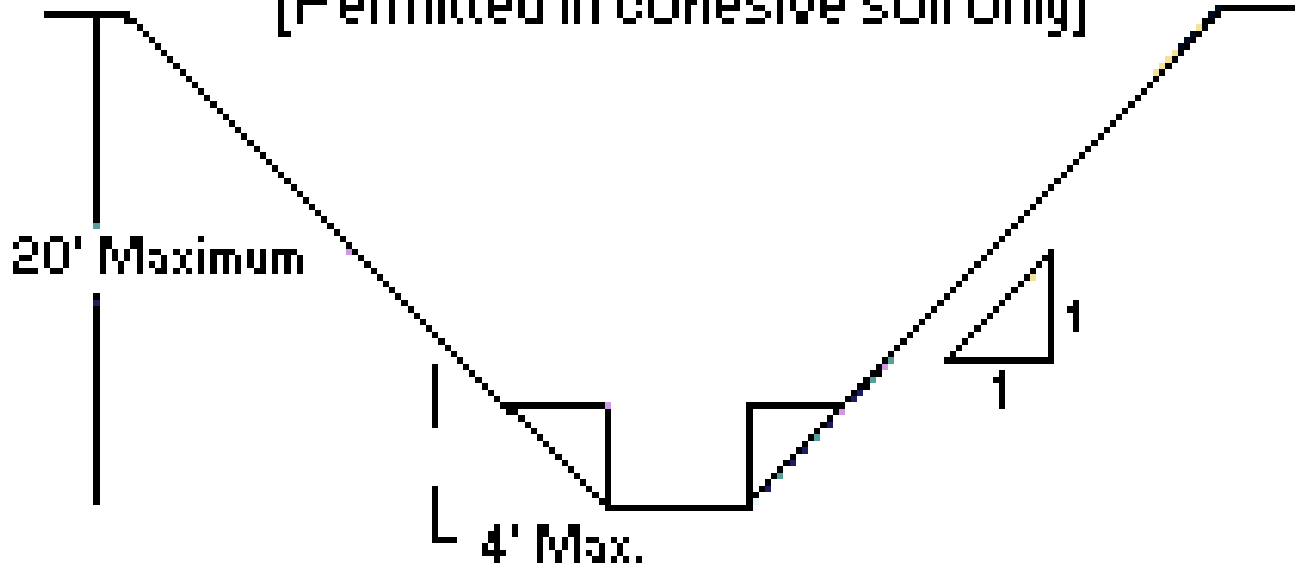
SIMPLE BENCH EXCAVATION TYPE A SOIL

TYPE A SOIL
Simple Bench Excavation



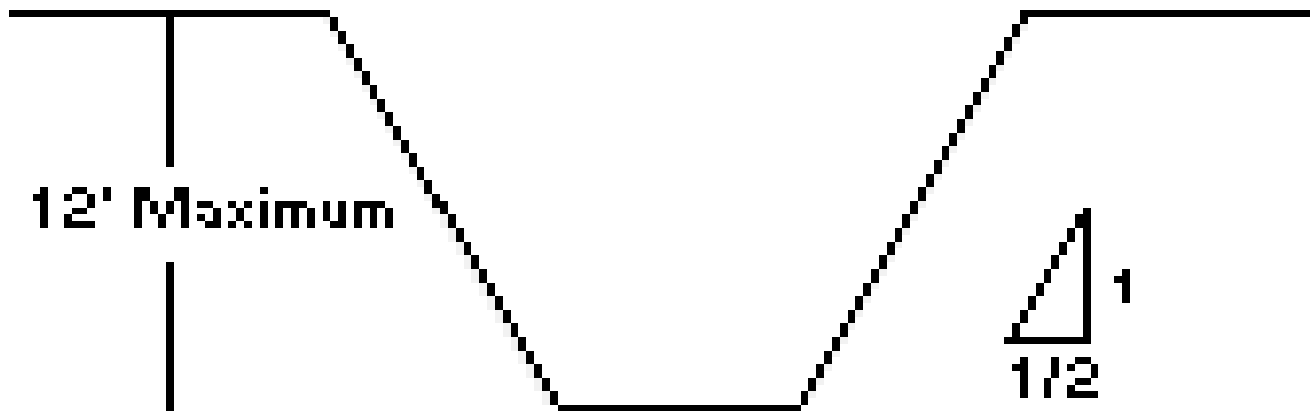
SIMPLE BENCH TYPE B SOIL

TYPE B SOIL
Single Bench Excavation
[Permitted in cohesive soil only]

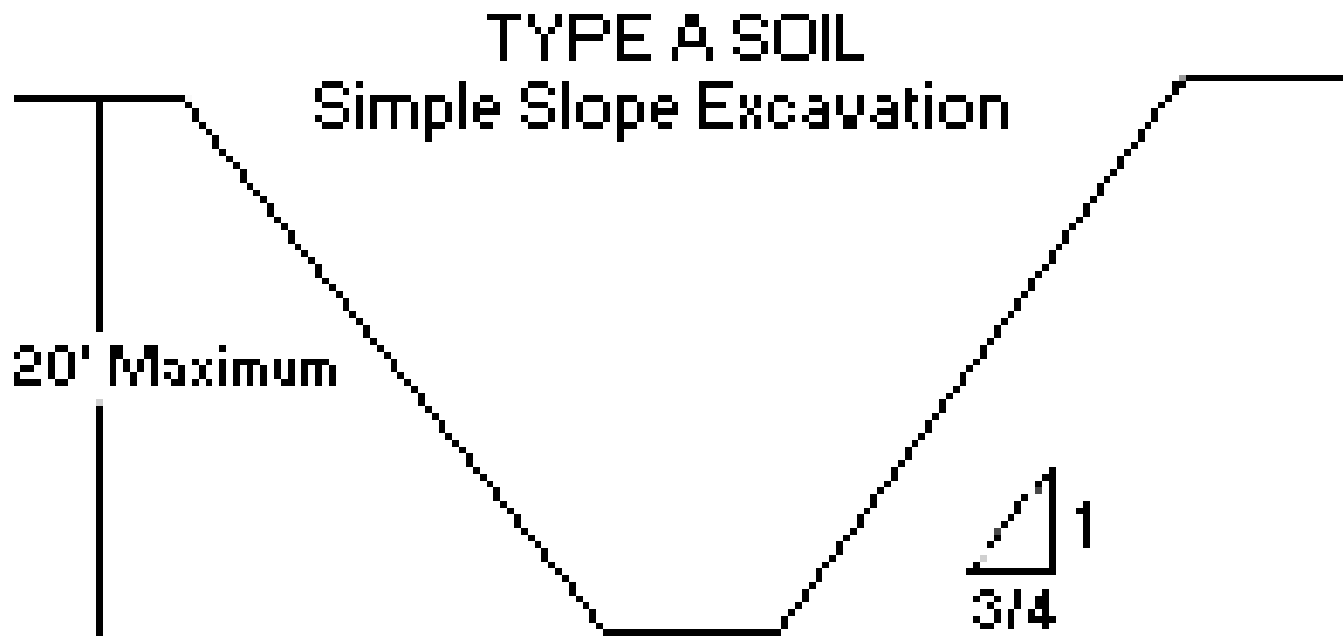


SIMPLE SLOPE SHORT TERM TYPE A SOIL

TYPE A SOIL
Simple Slope -- Short Term

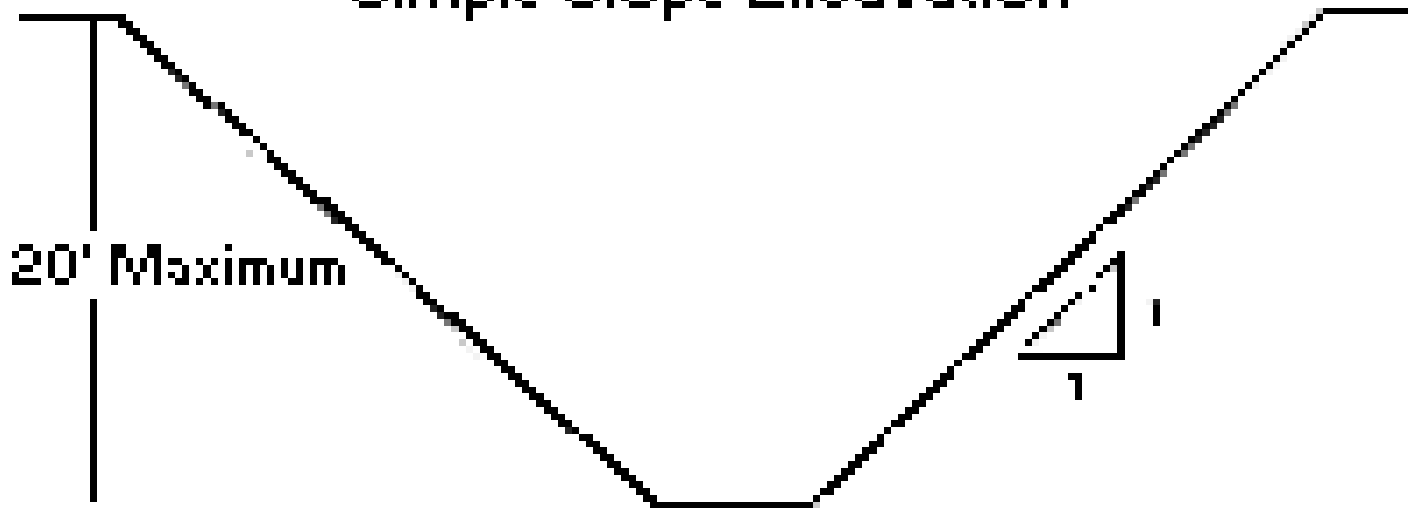


SIMPLE SLOPE TYPE A SOIL



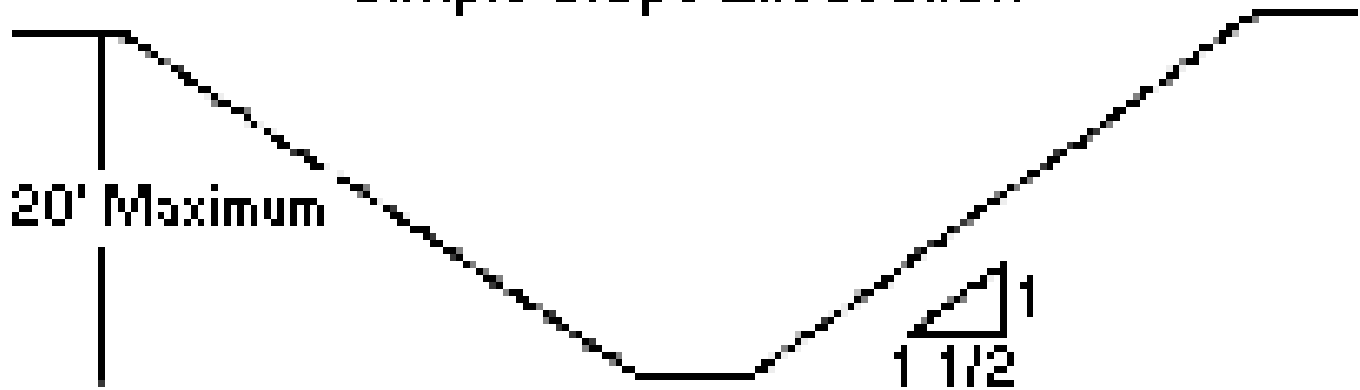
SIMPLE SLOPE TYPE B SOIL

TYPE B SOIL
Simple Slope Excavation

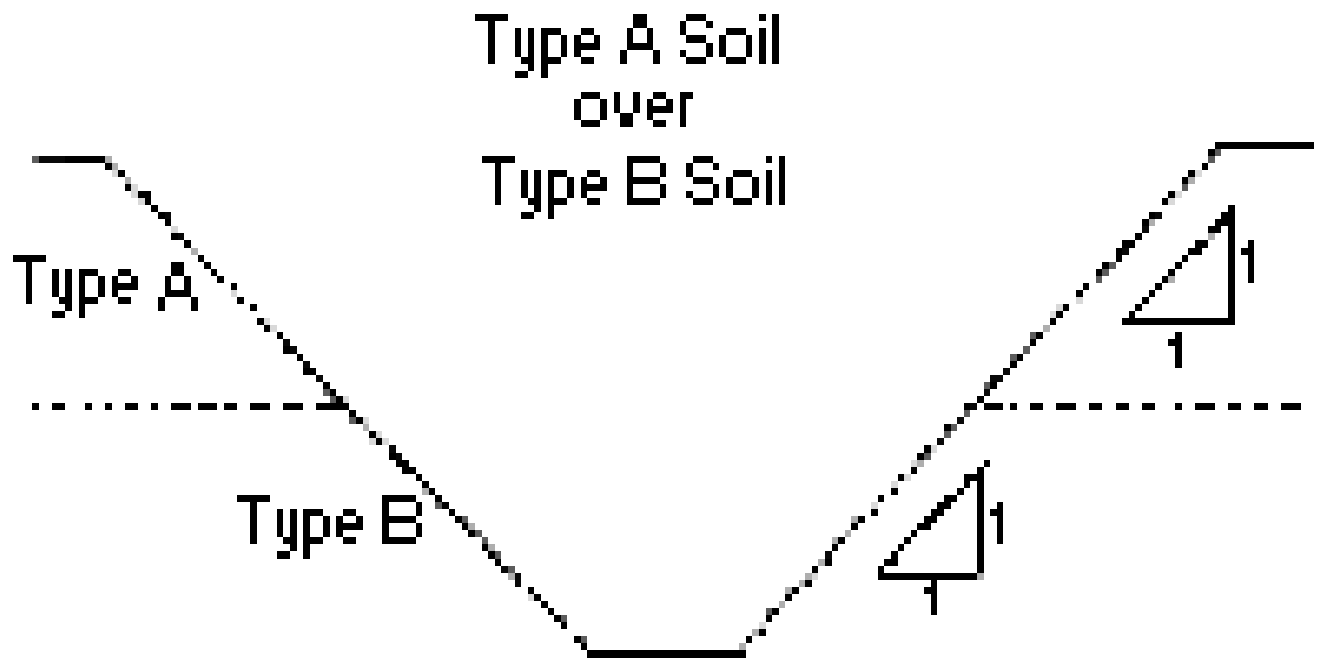


SIMPLE SLOPE TYPE C SOIL

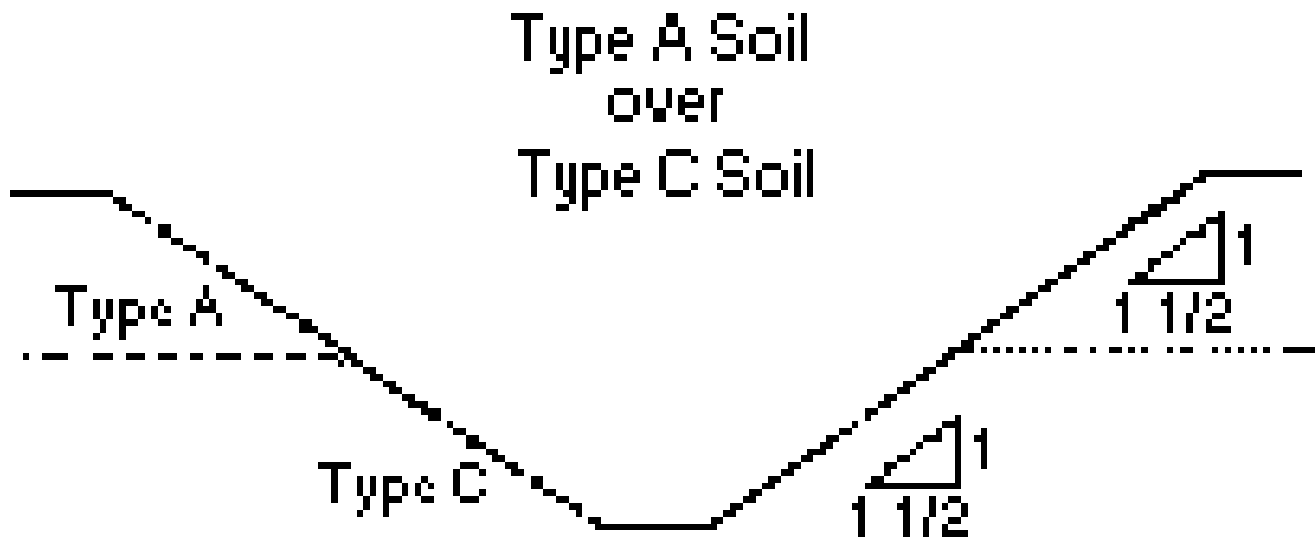
TYPE C SOIL
Simple Slope Excavation



TYPE A OVER TYPE B RATIO

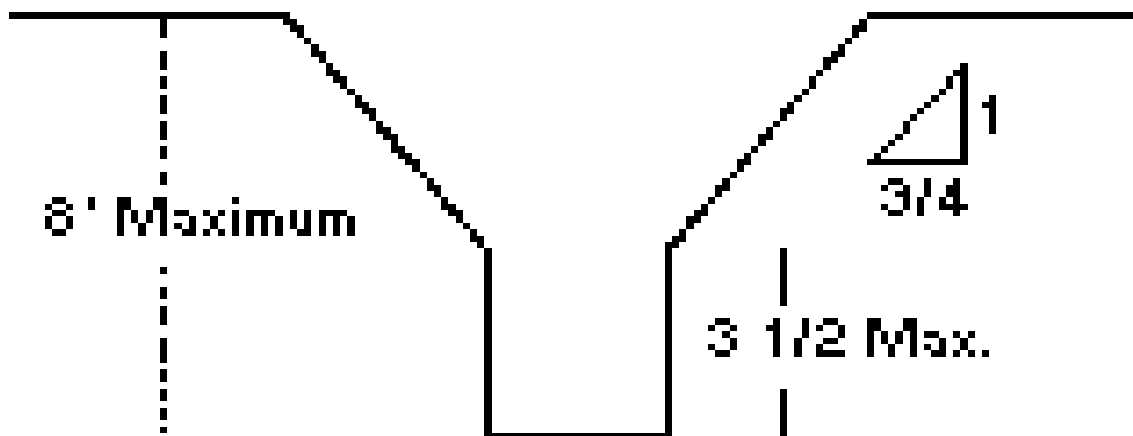


TYPE A OVER TYPE C SLOPE



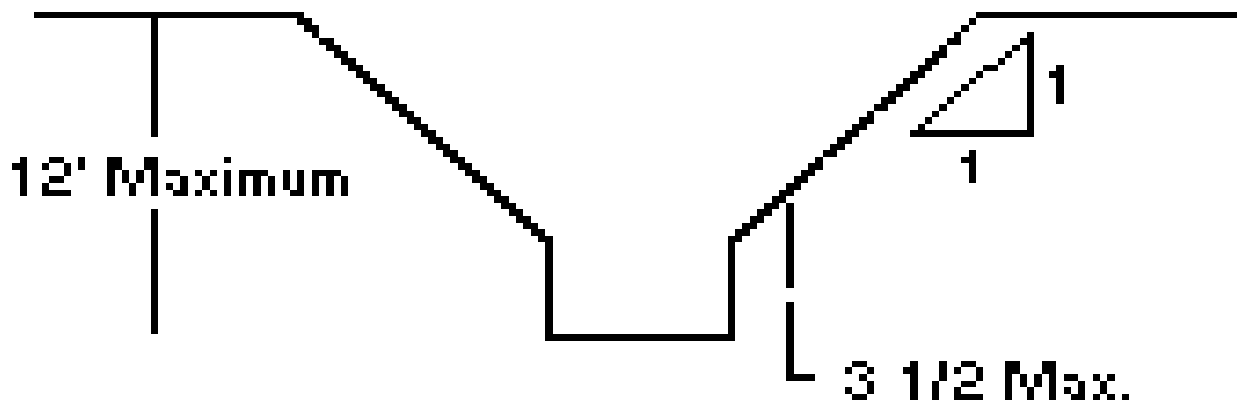
TYPE A SOIL 8' MAXIMUM UNSUPPORTED

TYPE A SOIL
Unsupported vertically sided lower portion
Maximum 8 Feet in depth



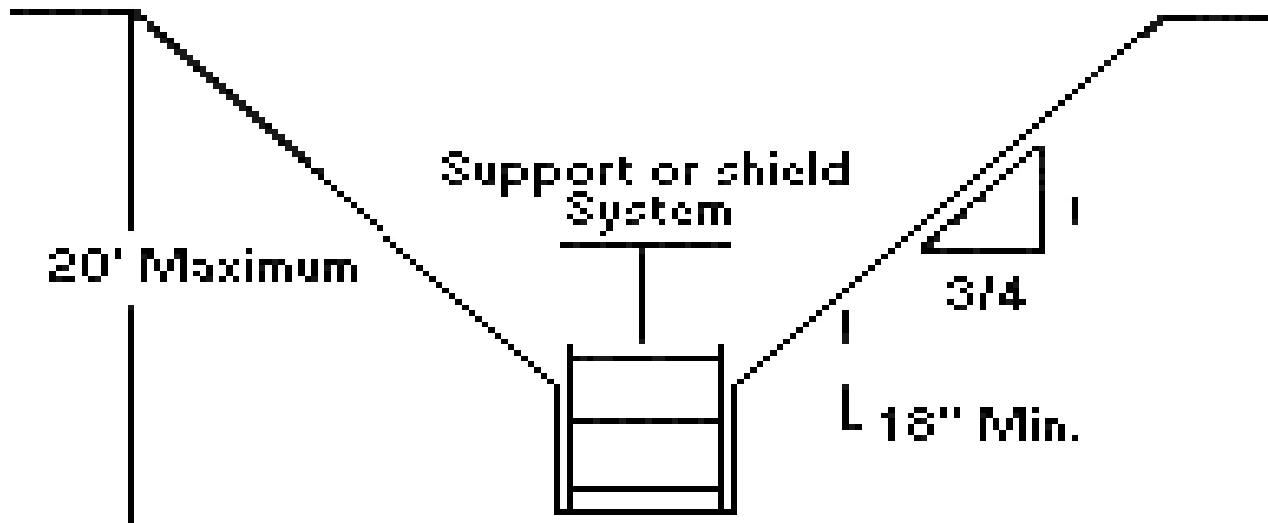
TYPE A SOIL 12' DEEP VERTICAL UNSUPPORTED

TYPE A SOIL
Unsupported vertically sided lower portion
Maximum 12 Feet in depth

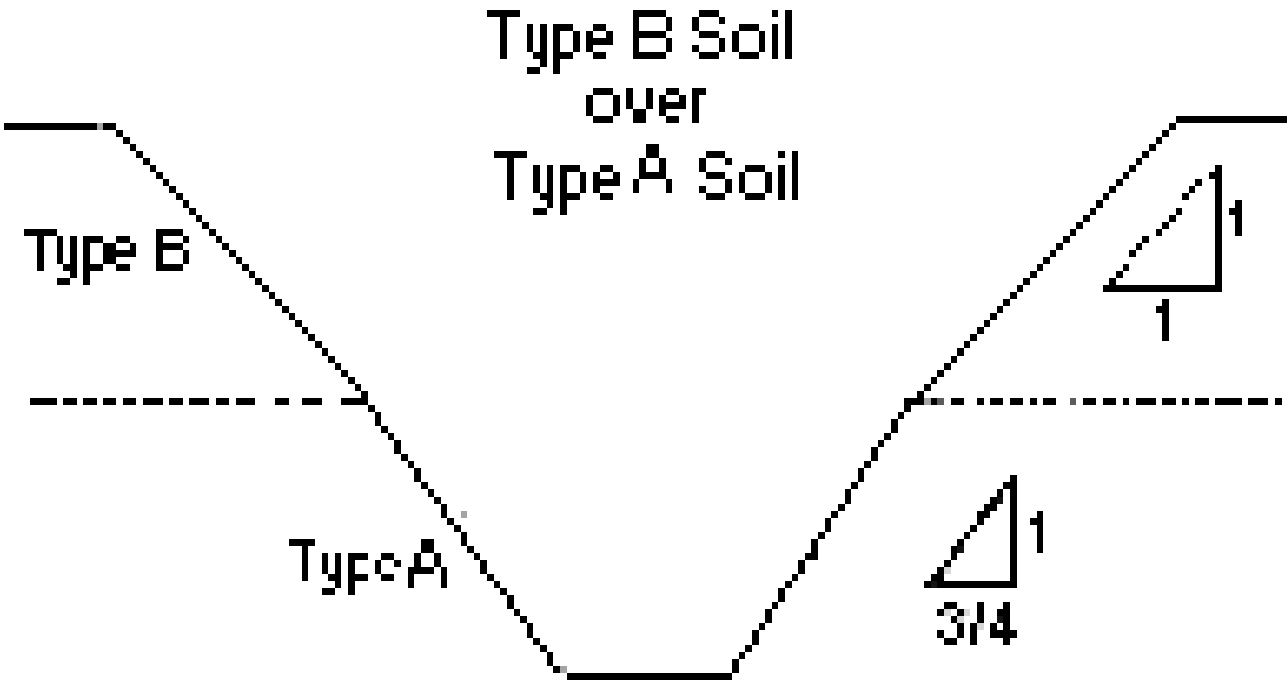


TYPE A SOIL VERTICALLY SHEILDDED

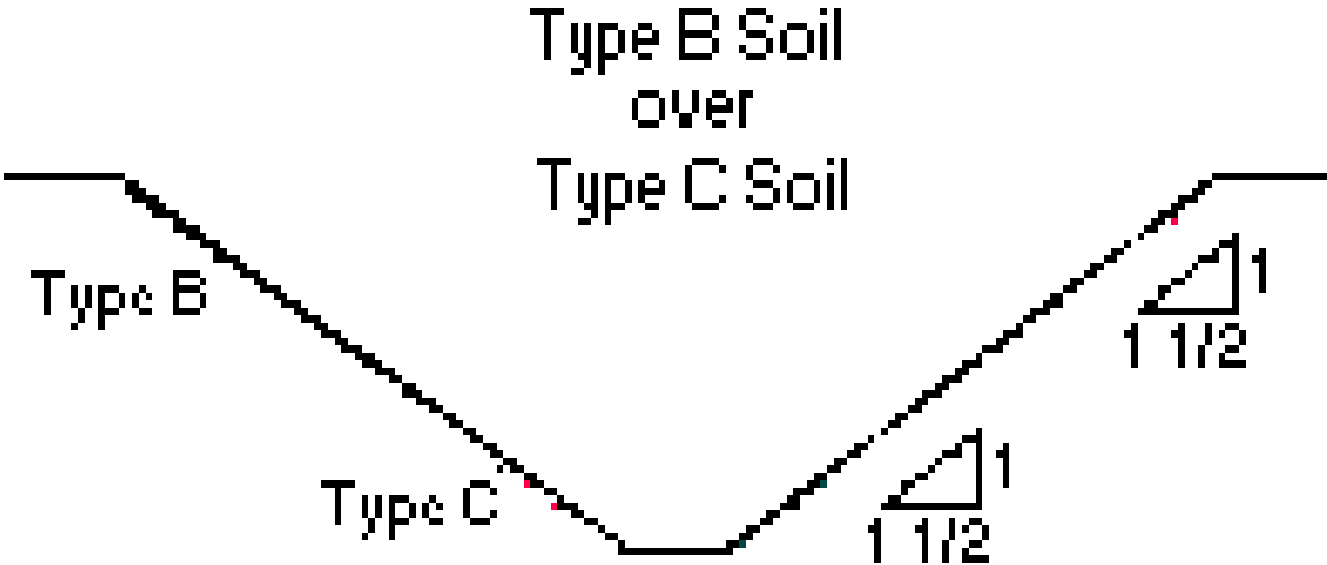
TYPE A SOIL
Supported or shielded
Vertically sided lower portion



TYPE B OVER TYPE A SOIL RATIO

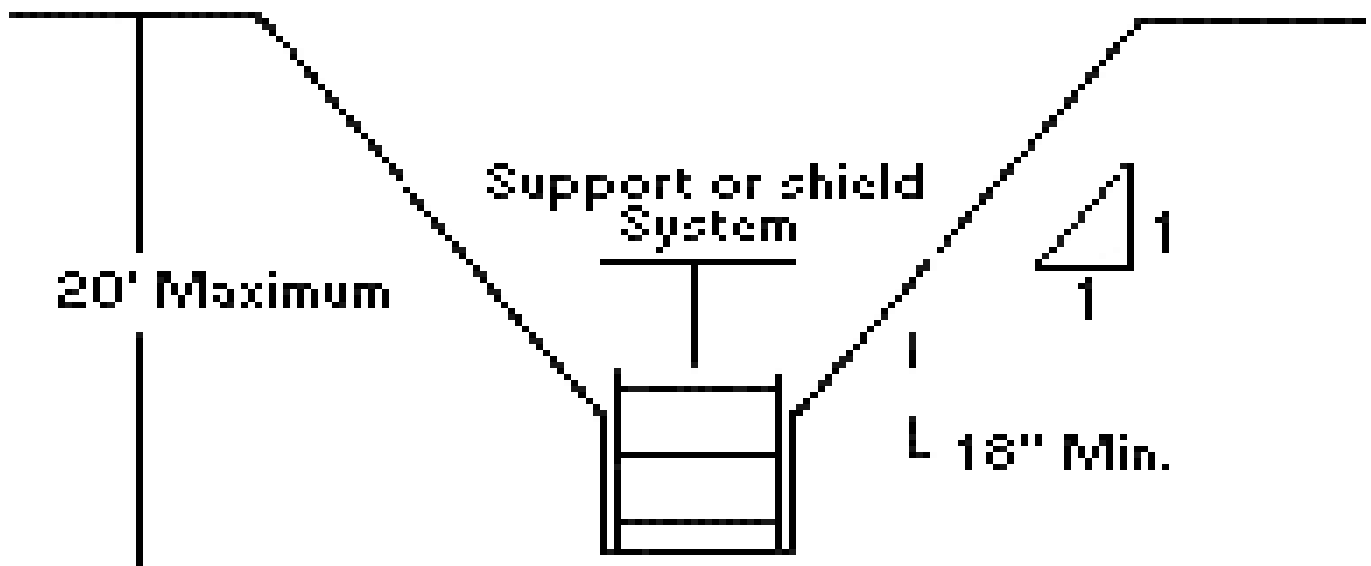


TYPE B OVER TYPE C SOIL SLOPE RATIO

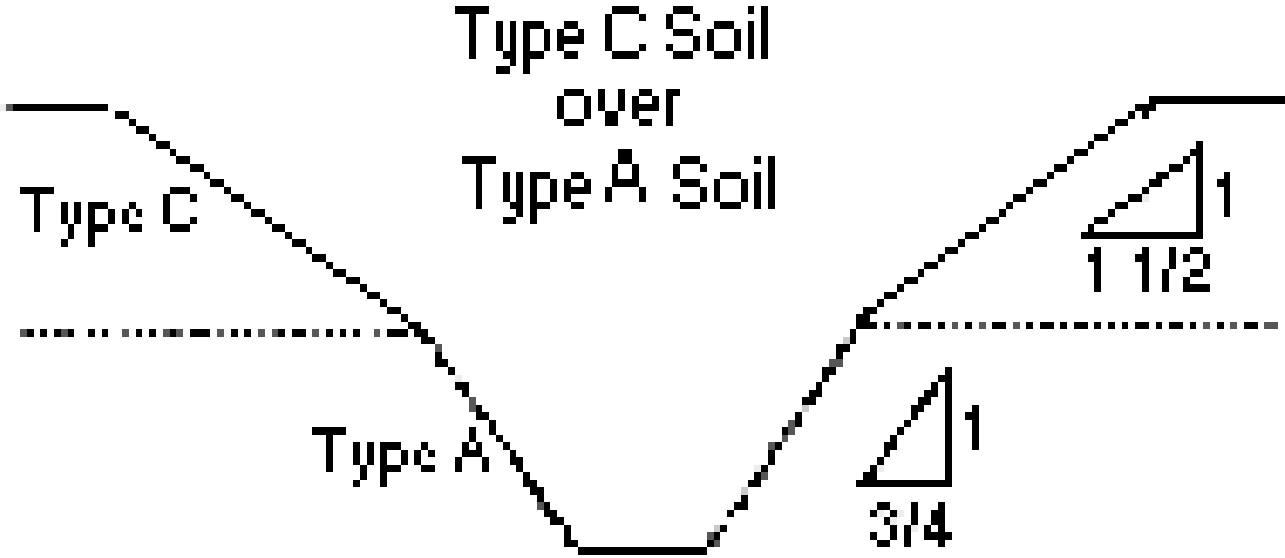


TYPE B SOIL VERTICALLY SHEILDED

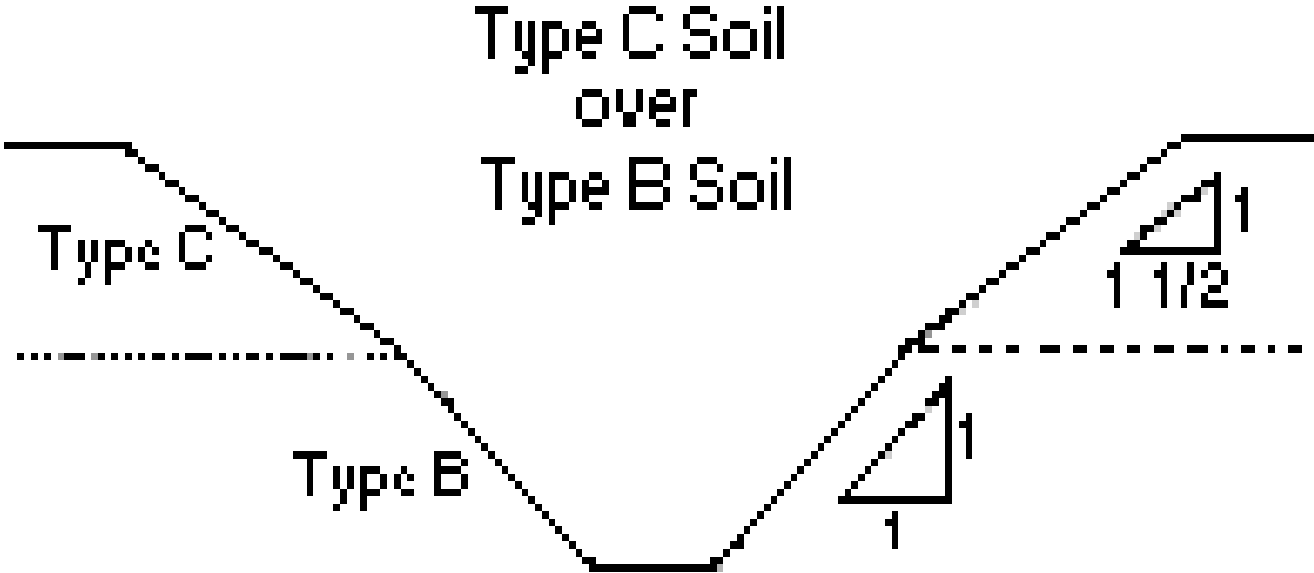
TYPE B SOIL
Supported or shielded
Vertically sided lower portion



TYPE C OVER TYPE A SOIL SLOPE RATIO

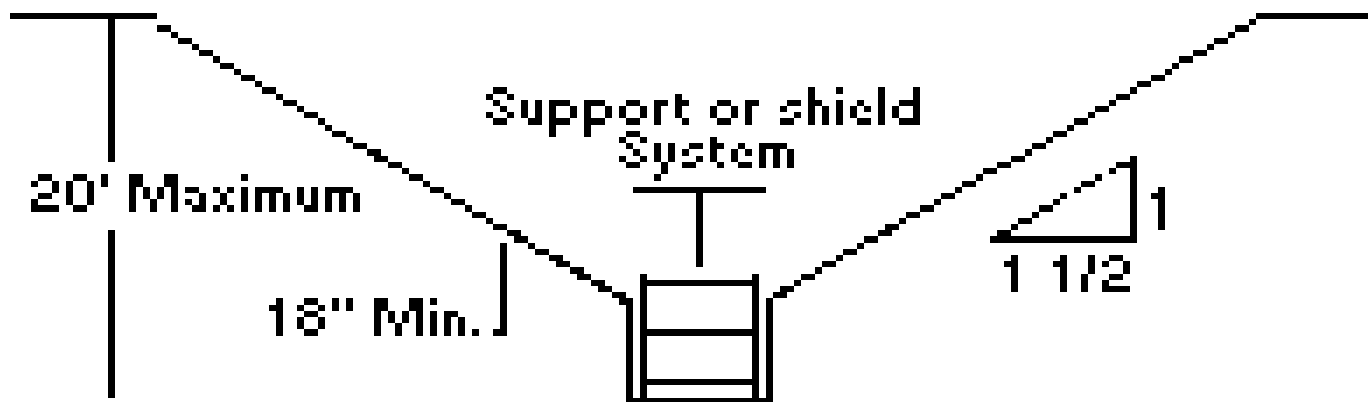


TYPE C OVER TYPE B SOIL SLOPE RATIO

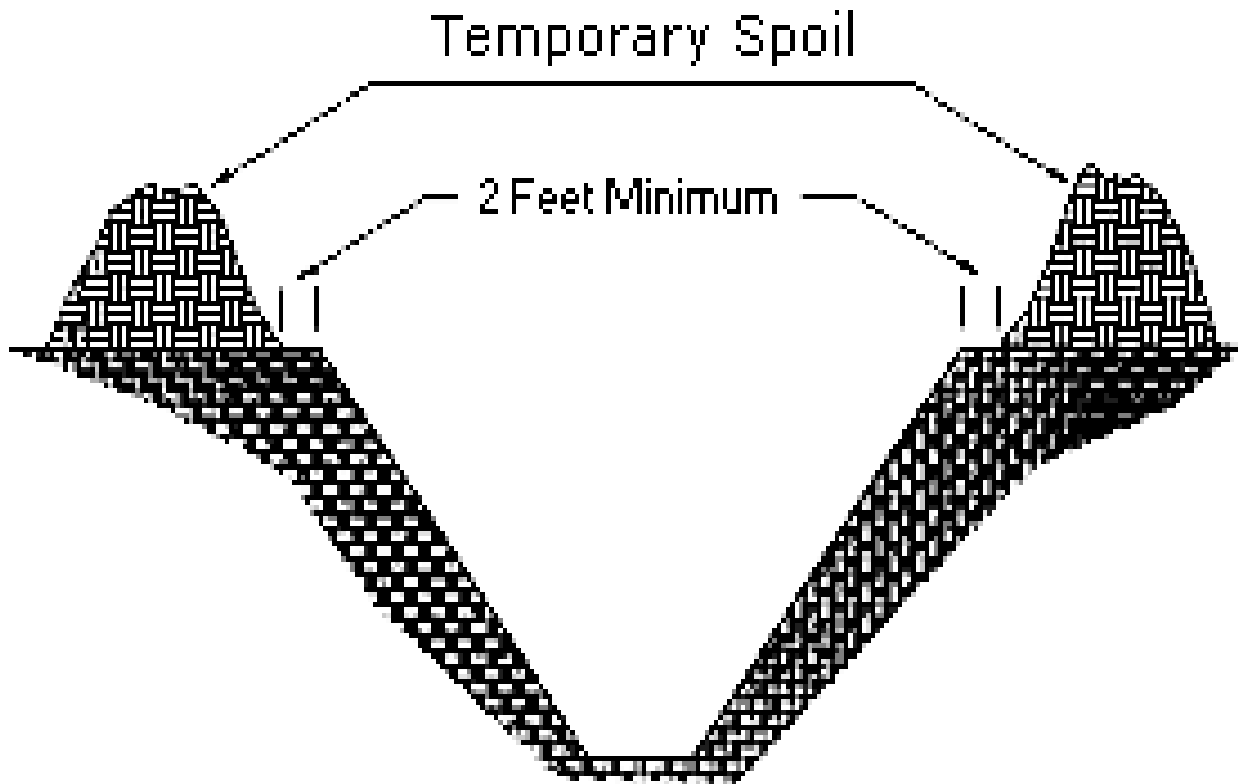


TYPE C SOIL SUPPORT RATIO

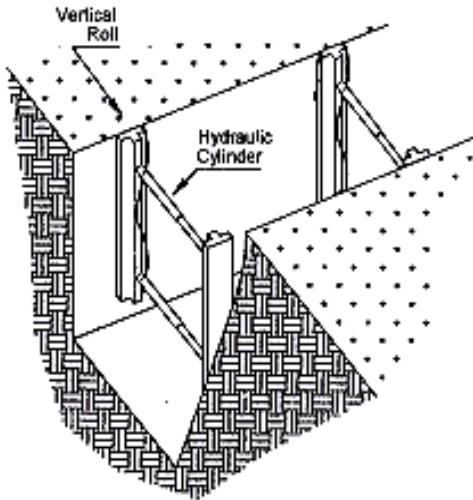
TYPE C SOIL
Supported or shielded
Vertically sided lower portion



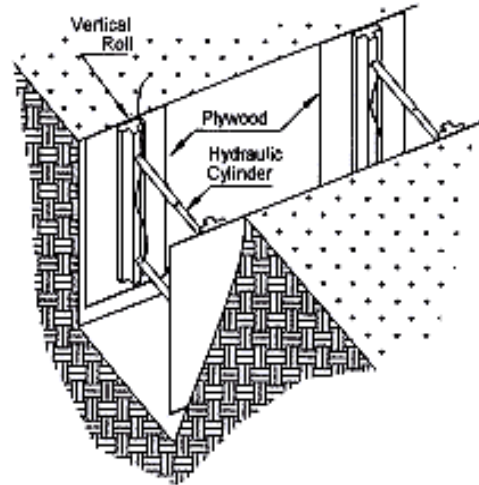
TEMPORARY SOIL PILE



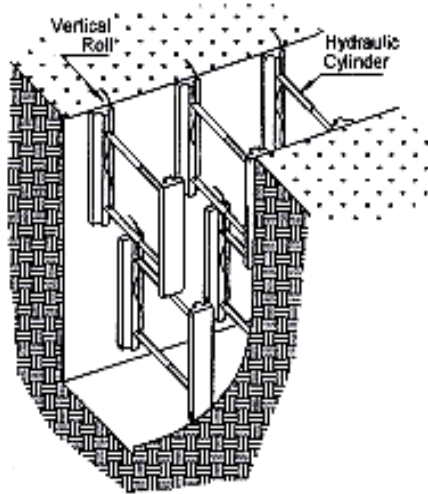
ALUMINUM HYDROLIC SHORING



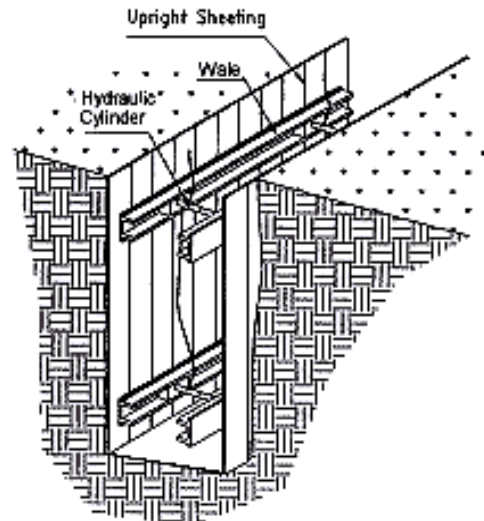
Vertical Aluminum Hydraulic Shoring
(Spot Bracing)



Vertical Aluminum Hydraulic Shoring
(With Plywood)

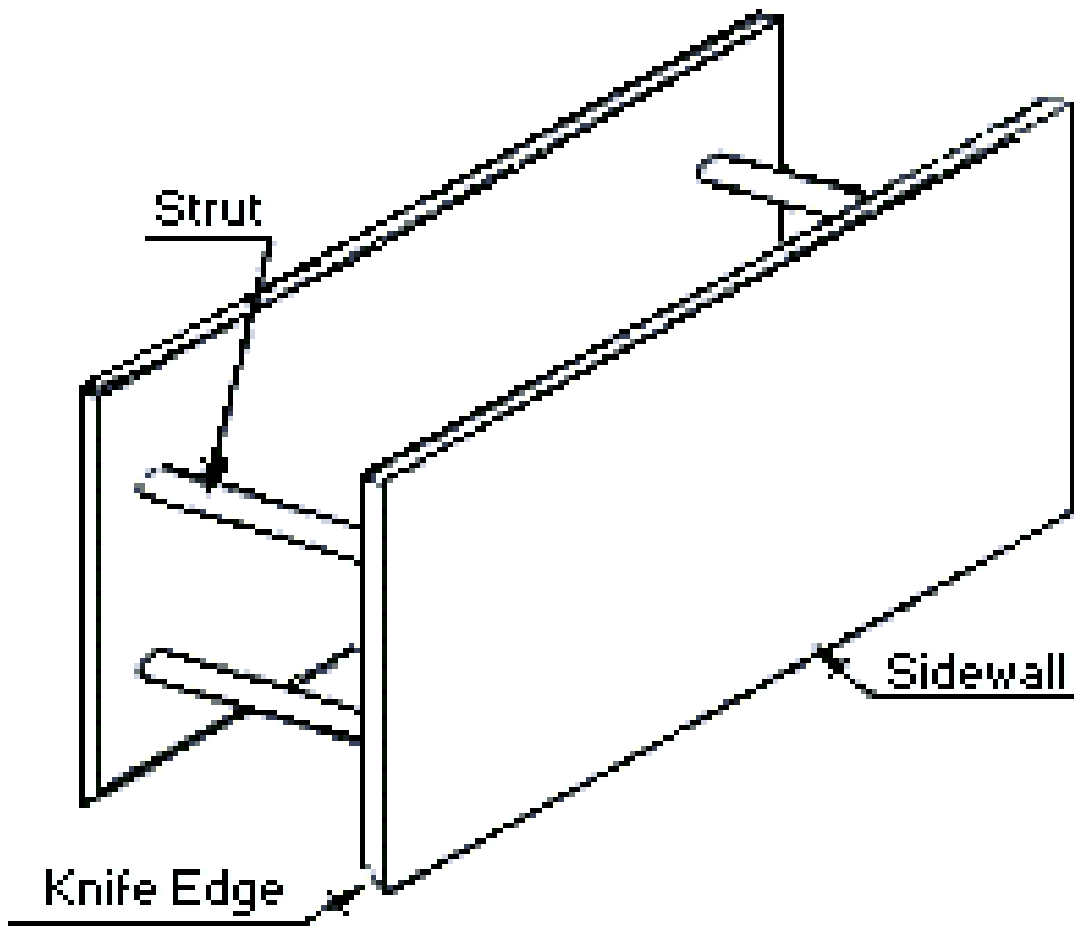


Vertical Aluminum Hydraulic Shoring
(Stacked)

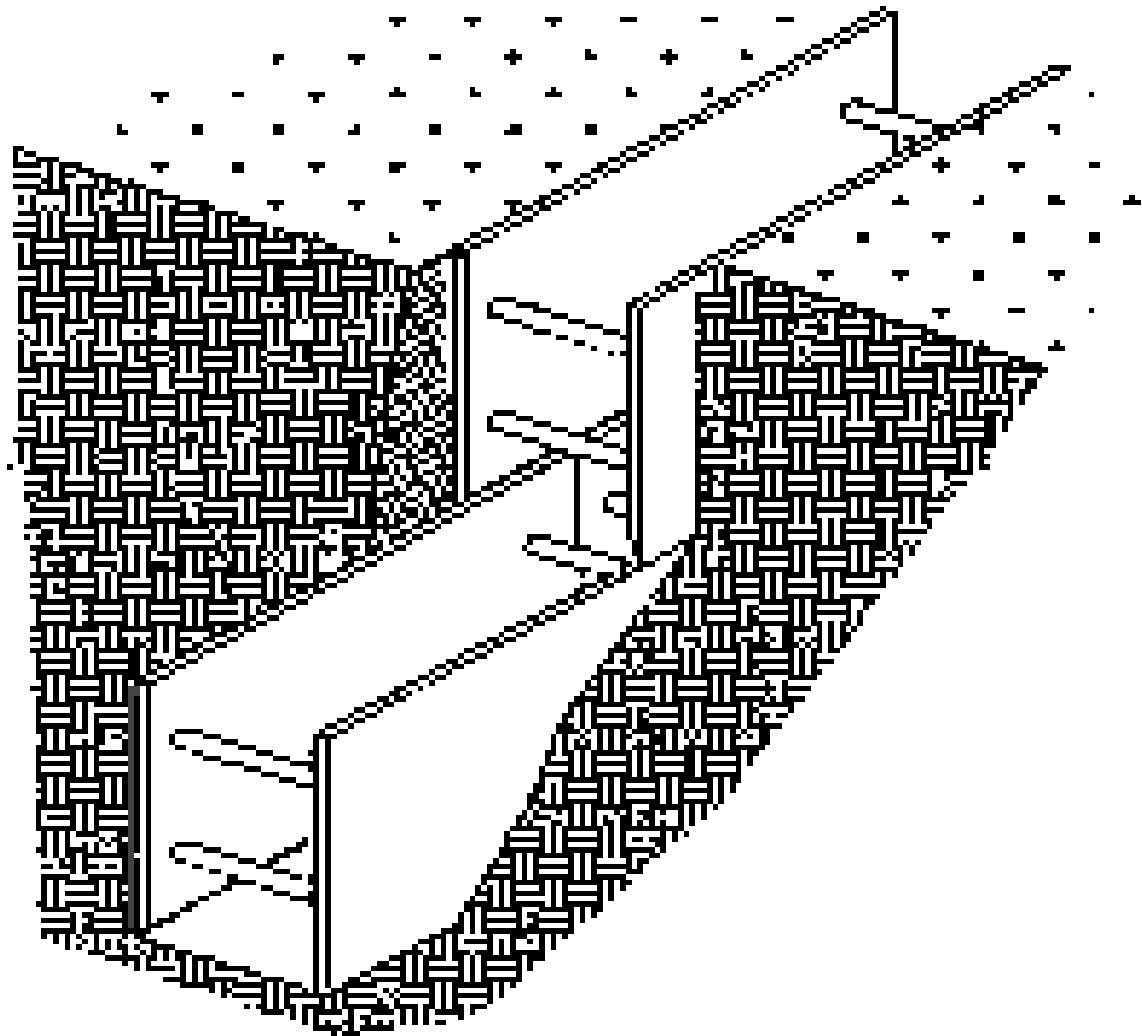


Aluminum Hydraulic Shoring Water System
(Typical)

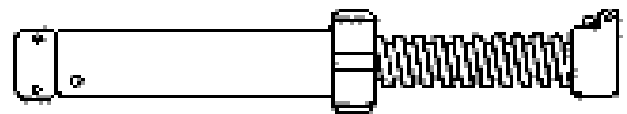
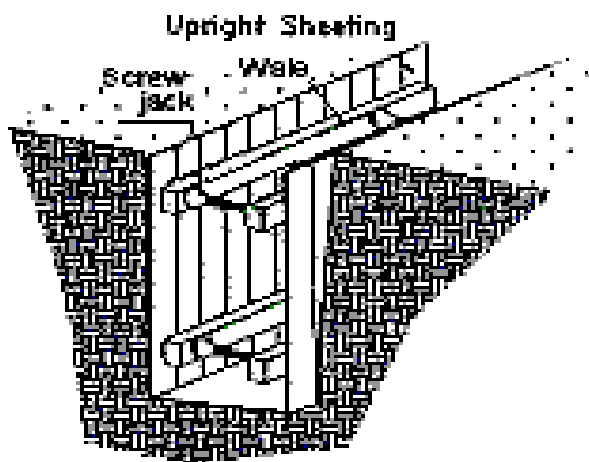
TRENCH BOX



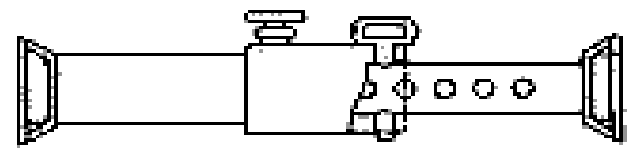
TRENCH BOX STEP DOWN



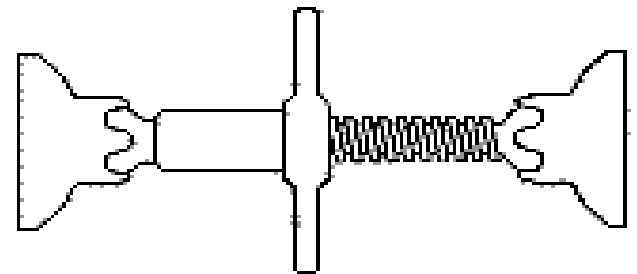
SHEETING JACKS



Pneumatic / hydraulic jacks



Screw jack



SHEETING WALE

