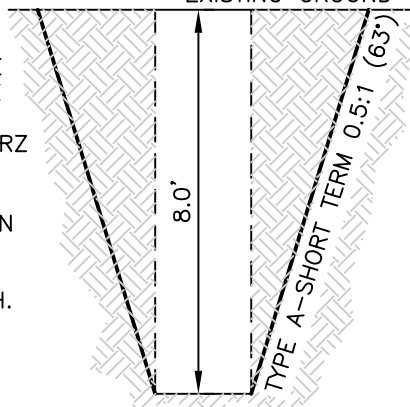


PROFILE HOLE EXCAVATION NOTES:

1. ACTUAL SLOPE MEANS SLOPE TO WHICH EXCAVATION FACE IS CUT.
2. MAXIMUM ALLOWABLE SLOPE MEANS STEEPEST INCLINE OF EXCAVATION FACE ACCESSIBLE FOR MOST FAVORABLE SITE CONDITIONS AS PROTECTION AGAINST CAVE-INS EXPRESSED AS RATIO OF HORIZONTAL DISTANCE TO VERTICAL (H:V).
3. SHORT TERM EXPOSURE MEANS LESS THAN OR EQUAL TO 24 HOURS THAT AN EXCAVATION IS OPEN.
4. 0.5H:1V SHORT TERM SLOPE IS FOR EXCAVATIONS 12-FT OR LESS IN DEPTH.

TRANSVERSE SECTION A
EXISTING GROUND



TRANSVERSE SECTION B

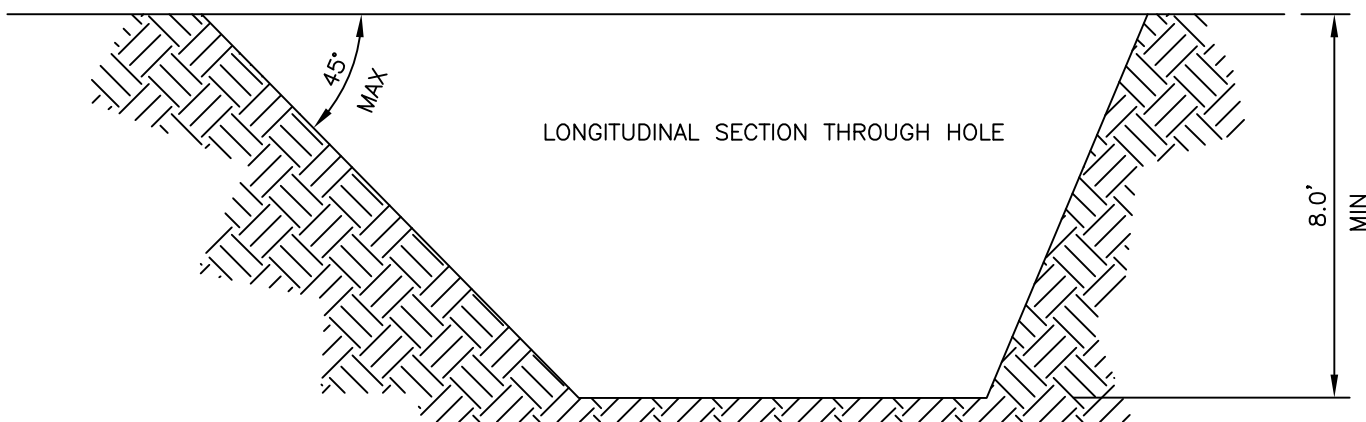
OSHA SOIL TYPE DESCRIPTIONS:

TYPE A SOIL: COHESIVE SOIL WITH UNCONFINED COMPRESSIVE STRENGTH = 1.5 TONS/SF (TSF) OR GREATER. CLAY, SILTY CLAY, SANDY CLAY LOAM; IN SOME CASES SILTY CLAY LOAM, SANDY CLAY LOAM. CEMENTED SOILS SUCH AS CALICHE AND HARDPAN. NO SOIL IS TYPE A IF:
 FISSURED, SUBJECT TO VIBRATION FROM HEAVY TRAFFIC, PILE DRIVING OR SIMILAR EFFECTS. SOIL PREVIOUSLY DISTURBED, SOIL PART OF A SLOPE, LAYERED SYSTEM WHERE LAYERS DIP INTO EXCAVATION ON A SLOPE OF 4:1 OR GREATER. SOIL SUBJECT TO OTHER FACTORS THAT WOULD REQUIRE A LOWER CLASSIFICATION.

OSHA SOIL TYPE DESCRIPTIONS:

TYPE B SOIL: COHESIVE SOIL WITH UNCONFINED COMPRESSIVE STRENGTH GREATER THAN 0.5 TSF BUT LESS THAN 1.5 TSF, GRANULAR COHESIONLESS SOILS INCLUDING ANGULAR GRAVEL, SILT, SILT LOAM, SANDY LOAM AND IN SOME CASES SILTY CLAY LOAM AND SANDY CLAY LOAM. PREVIOUSLY DISTURBED SOILS EXCEPT THOSE WHICH WOULD OTHERWISE BE CLASSIFIED AS TYPE C. SOIL MEETING UNCONFINED COMPRESSIVE STRENGTH OR CEMENTATION REQUIREMENTS FOR TYPE A, BUT IS FISSURED OR SUBJECT TO VIBRATION OR DRY ROCK, NOT STABLE OR MATERIAL PART OF A SLOPE WHERE LAYERS DIP INTO THE EXCAVATION ON A SLOPE OF 4H:1V, BUT ONLY IF SOIL WOULD OTHERWISE BE CLASSIFIED AS TYPE B.

TYPE C SOILS: COHESIVE SOIL WITH UNCONFINED COMPRESSIVE STRENGTH OF 0.5 TSF OR LESS, OR GRANULAR SOILS, INCLUDING GRAVEL, SAND AND LOAMY SAND OR SUBMERGED SOIL OR SOIL FROM WHICH WATER IS FREELY SEEPING OR SUBMERGED ROCK THAT IS NOT STABLE OR MATERIAL PART OF A SLOPE WHERE LAYERS DIP INTO THE EXCAVATION ON A SLOPE OF 4H:1V, BUT ONLY IF SOIL WOULD OTHERWISE BE CLASSIFIED AS TYPE B.



OSHA REQUIRED MAXIMUM EXCAVATION SLOPES

PROFILE HOLE CONFIGURATION