MIOSHA Part 9. Excavation, Trenching, and Shoring Five Important Safety Rules

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3. Inspections must be an ongoing process. If the excavation does not have the proper slope or otherwise is dangerous, do not enter until you make it safe.
4. Keep spoils pile at least 2' back from the trench edge.
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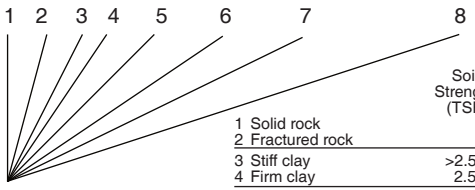
Table 1: Max Angle of Repose for Excavation Sides in Excess of 5' Depth



	Soil Strength (TSF)	Slope	Ratio
1 Solid rock		90°	
2 Fractured rock		75°	¼:1
3 Stiff clay	>2.5	63°	½:1
4 Firm clay	2.5	56°	2/3:1
5 Previously disturbed soil	1.5	45°	1:1
6 Granular soil wet	1.0	34°	1½:1
7 Saturated granular soil	<1.0	26°	2:1
8 Running soil		18°	3:1

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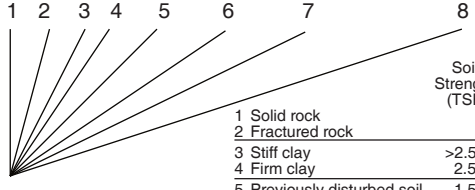

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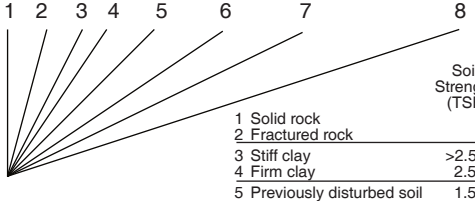

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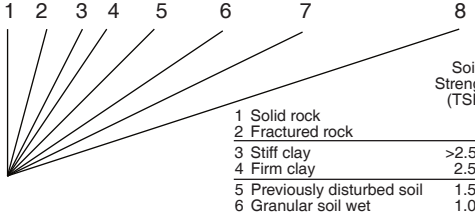

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