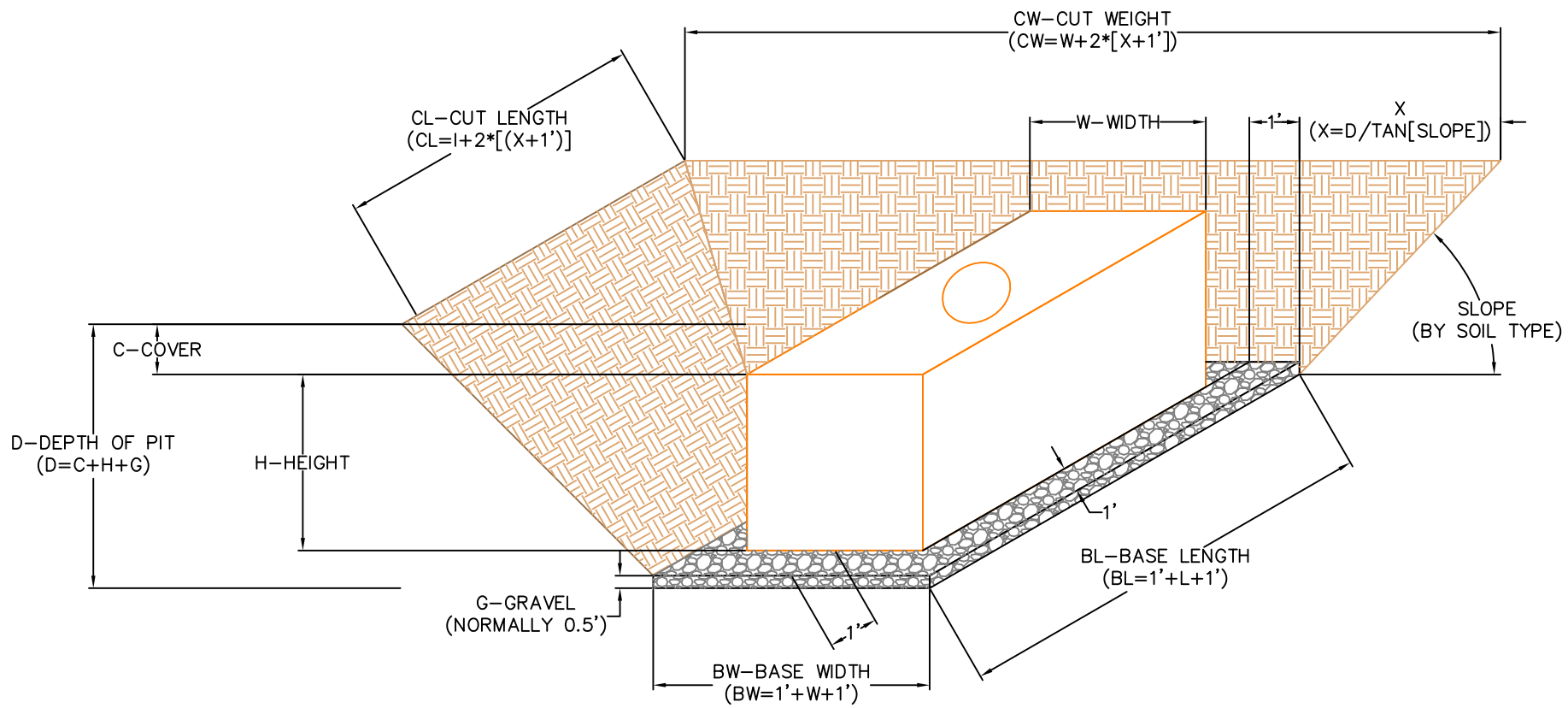


| Maximum Allowable Slopes | | |
|---|---|---|
| | **Maximum allow slopes (H:V) for excavations less than 20 feet deep** | |
| **Soil or Rock Type** | **Hortizonatal:Vertical** | **Maximum slope angle** |
| Stable Rock | Vertical | 90° |
| Type A[1] | 3/4:1 | 53° |
| Type B | 1:1 | 45° |
| Type C | 1.5:1 | 34° |
| | | |
| **Notes:** | | |
| 1. A short-term maximum allowable slope of 1/2H:1V (63°) is allowed in excavations in Type A soil that are 12 feet (3.67m) or less in depth. Short-term maximum allowable slopes for excavations greater that 12 feet (3.67m) in depth shall be 3/4H:1V (53°). | | |
| 2. Meassure from grade to bottom of trench. | | |
| 3. Sloping or benching for excavations greater than 20 feet shall be designed by a registered professional engineer. | | |

SHORT TERM SIMPLE SLOPES