

## Instructions for completing the HAMILTON COUNTY EARTHWORK APPLICATION

Item 1: Complete form legibly. Complete all applicable sections.

Project Description: general description of work to be completed, e.g., “new driveway with cut, fill, and 3-ft tall retaining wall.”

Table: fill in all lines. Use “same as line a” or “same as line c” if same party.

Item 2: Disturbed Area refers to total area of construction or denuded ground surface.

Project Title: selected name for project, e.g., “new Smith driveway.”

Item 3: Complete parts A, B, and C --OR-- initial if NO EARTHWORK REQUIRED.

**Volume:** total volume of excavation and/or fill , in cubic yards (CY)

**Depth:** refers only to the regrading of the site, not to depths of footing excavations, or depths of retaining wall backfill or the like.

**Slope:** refer to the following table and/or diagram:

HORIZONTAL RUN	VERTICAL RISE	RATIO	PERCENT	DEGREE
20	1	20H:1V	5	2.9
10	1	10H:1V	10	5.7
8	1	8H:1V	12.5	7.1
6	1	6H:1V	16.7	9.5
5	1	5H:1V	20	11.3
4	1	4H:1V	25	14.0
3	1	3H:1V	33.3	18.4
2	1	2H:1V	50	26.6
1.5	1	1.5H:1V	66.7	33.7
1.25	1	1.25H:1V	80	38.7
1	1	1H:1V	100	45.0
1	1.33	0.75H:1V -or- 1H:1.33V	133	53.1
1	1.5	0.67H:1V -or- 1H:1.5V	150	56.3
1	2	0.5H:1V -or- 1H:2V	200	63.4

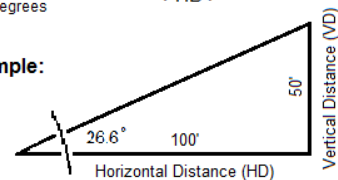
### SLOPE DETERMINATION FORMULAS

Slope Ratio: HD:VD

Slope Percent:  $\left(\frac{VD}{HD}\right) \times 100$

Slope Angle:  $\text{Arctan}\left(\frac{VD}{HD}\right)$   
degrees

**Example:**



Slope Ratio: 100:50 = 2:1

Slope Percent:  $\left(\frac{50}{100}\right) \times 100 = 50\%$

Slope Angle:  $\text{Arctan}\left(\frac{50}{100}\right) = 26.6^\circ$   
degrees

**Export / Import:** refers only to soil materials, not aggregate or other construction materials. Should be “No” if site earthwork is expected to “balance”. If “Yes” list location where soil will be borrowed or disposed of.

Item 4: Read and legibly complete form with printed name and signature, email, and address.

Per instructions, use ? or **UNKN** if an item is uncertain or unknown.

Contact the Hamilton County Soil and Water Conservation District with questions, 513-772-7645 (ask for “Earthwork”), or email at [earthworkpermits@hamilton-co.org](mailto:earthworkpermits@hamilton-co.org)