

Grading Drafting Conventions

Text

All proposed drawing text should be 1/8" height text.

WT=1 for proposed grading text.

Convention

Spots at all critical locations.

Top and toe slope lines with labels.

Slope arrows to show slope direction with callout of slope.

Use overland flow arrows liberally.

Spot Elevations

Use spot elevation cells with boxed elevation text. Cells are found in the CIVIL.CE8 library. Standard spot elevation cells are called **SPOT#** with # indicating the amount of digits in the fill-in box. Place cells at scale of the drawing and change the font to FT=3. Add text for FFE, TE, T/C or other indications of the spots location.

Choose a number of digits for spots and stick with it. Use a minimum of two digits prior to the decimal point. If the amount of digits used is less than the actual elevation, note the actual elevation of the site in the general notes. Ground elevations to tenths of a foot. Pavement elevations to hundredths of a foot.

Spots should normally be placed to read upright, but from the right is acceptable.

Place a tick mark (**SPOT**) at drawing scale, at the location of the elevation to be indicated.

Leader the elevation to the spot tick mark. Use a Smartline to the center of either end of the grade box. (**Don't cross leaders.**)

Other Cell Placement

The following cells can be used for grading plans placed at the drawing cell and converted to font FT=3 if required.

Flow Arrows: Plain Arrow (**FLOW**), 1 "/ft Slope (**SLP1**), 1/4" / ft (**SLP14**)

Slope lines: Existing Slope (**SLOPE**). New Slope (**NSLOPE**), Drop the cell and extend the slope line to the required distance. Note slope ratio along several locations on site, especially if different slopes exist. Slope lines should be parallel to a located top or bottom of slope. Top/bottom of slopes should be dimensioned on Geometrics plans.

Swale Slopes: Flow Direction (**FLOW1**), Swale Slope (**SWALE2**), Pavement slope arrow (**31**). Swales should be dimensioned on Geometrics plans.

