Computation of Curve Staking out Coordinates on the Excel Spreadsheet

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SUMMARY

COMPUTATION OF CURVE STAKING OUT COORDINATES ON THE EXCEL SPREADSHEET

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ABSTRACT

A procedure for the computation of curve setting out data on the Excel spreadsheet is outlined. An Excel worksheet with interrelated sheets computes the curve setting out data. In sheet one the included angles are computed from the coordinates entries of the intersection points of the straights. In sheet two curve elements for the various curves are computed from the entries of the radii and lengths of the transition curves and the included angles computed in sheet one. Sheet three computes the chainages of the principal points of the curves and the coordinates of these points. The sheets that follow compute the coordinates of the points along the centre-line by alternating between straights and curves.

Computation of Curve Staking out Coordinates on the Excel Spreadsheet (8671) Gacoki Thomas Gicira (Kenya)