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## Methods to Obtain the Horizontal Datum Plane for CSRm 3D Control Network

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Some methods to obtain the horizontal datum plane for CSRm 3D control network have been introduced and the character of each method has been analyzed also. The method of combine the level functions of laser tracker and digital level is considered the better one to obtain the precision horizontal plane for control network. In order to obtain the precision horizontal datum plane, the influence to height due to the curvature of geodetic level must be considered when using the digital level to measure the height of benchmarks and therefore the datum obtained by digital level must be corrected during the data processing.

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