

GPS (Global Positioning System) for Construction Surveying

GPS is a satellite-based positioning system for land surveying which utilizes radio transmission with U.S. Department of Defense satellites. GPS is used to quickly establish point locations, distances between points, and area boundaries while maintaining high degrees of accuracy. Through the use of GPS instead of conventional sight surveying, surveyors are able to achieve an increase in productivity and a decrease in time duration when surveying land for construction. It enhances the entire construction process and allows for tight schedules to be met, regardless of weather conditions. GPS has few limitations. It has the ability to define precise positions of points regardless of distance, weather, or terrain. GPS enables the construction process to run smoothly due to its timeliness, accuracy and overall cost efficiency. Trimble Navigation, located in Sunnyvale, California, is the manufacturer of satellite based navigational and positioning products for surveying.

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