

## USE OF ACTIVE BASIC STATIONS IN THE PERFORMANCE OF CADASTRAL WORKS WITH RESPECT TO REAL ESTATE OBJECTS

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**Relevance:** Currently, the most technological way of satellite positioning, which allows to determine the location of real estate in the established coordinate system, is the RTK mode, which, however, has some drawbacks. That's why current normative documents determine the requirements for using the static mode if necessary, which is mode labour-consuming but provides the opportunity to control satellite accuracy.

**Objective:** to propose efficient technological scheme for determination of reference points, fixing boundaries of land parcels and capital construction objects in the RTK mode with accuracy control of satellite positioning.

**Methods:** theory of mathematical processing of geodetic measurements with elements of mathematical statistics and the method of least squares.

**Results:** proposed technological scheme, which allows to effectively use the RTK mode with the control of the accuracy of satellite positioning.

**Key words:** cadastral block, territorial entity, cadastral engineer, Unified State Register of Real Estate, property object, land parcels, capital construction object, geodetic control, initial points, reference points, statistic mode, RTK mode, statistic criteria, root mean square error.

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