

[Document Name] Abstract

[Title of Invention] CONSTRUCTION METHOD OF UNDERGROUND STRUCTURE

As a protecting work in a case of performing a jacking construction method of the concrete box body, since earth covering of the structure can be made shallow, an access road gradient becomes gentle, an underpass which is safe and easy to use can be installed, since an access road section can be reduced, it can be applied even in an existing city area, since an excavation depth of the entire work is shallow, a construction cost of the entire underpass is lowered, the structure can be made in a bright state where management is easy, since a box-shaped rigid-frame structure can be installed, the protecting work can be applied even in a case where a traverse length is long and since the box-shaped roof as the protecting work can be re-used, it is economical.

As a protecting work when a concrete box body to be installed as an underground structure is to be jacked, a box-shaped roof which is box-shaped cylindrical steel pipes each having a rectangular section are arrayed so as to match an outer edge of the concrete box body scheduled to be installed, this box-shaped roof is pushed in and penetrated between a starting vertical shaft and an arriving vertical shaft which is an entire length of a traverse section in advance, the concrete box body in which a cutting edge which is a cutting-face excavating work space made of steel is installed at a rear end thereof is installed, the box-shaped roof is pushed out while the cutting face is excavated in the cutting edge and the concrete box body is jacked, and the box-shaped roof and the concrete box body are replaced and installed.

[Selected Drawing] Fig. 1