

[Title of Invention] CONSTRUCTION METHOD OF UNDERGROUND
STRUCTURE

[Document Name] Abstract

5 The present invention provides a construction method capable of
constructing a structure in a ground by towing the structure made of a full-size
precast concrete, such as in case of excavatingly advancing to construct an
underground structure having a greater width in a ground under a railroad,
road, or the like in a direction traversing it, which construction method is
extremely high in safety.

10 Moreover, when the geology of the cross section is rock formations, it is
difficult to perform horizontal boring with a small caliber, so even if a
pipe roof with a large caliber is installed as a protection work,
the frictional force on the top surface of the case at the time of towing the
case (between the upper ground and the concrete box top),
15 the movement of the pipe roof can be suppressed.

Prior to towing of the concrete box, pipe roof is constructed in an upper portion,
frame is installed in the tag end of concrete box so that even overhang on
this concrete box,
the above-mentioned frame is connected mutually by the towing member
20 inserted in the above-mentioned pipe roof,
the front side of concrete box is excavated as well as,
using the towing jack installed in the edge of the towing member the precast
concrete box toward in the underground structure building ground.

25 Fig. 6