

Chapter 5 Progress of Restoration Work

Section 1 Progress of Trial Assembly

A trial assembly was conducted together with the dismantling work to examine the combination and fit of each block. A trial assembly yard was prepared in two locations, in the south and west, but in consideration of the work progress and space constraint, the trial assembly was implemented in order by part. The framework was finished being assembled most quickly, and is placed in the south trial assembly yard in its assembled state. The upper foundation was assembled over the period from the second half of FY2012 to the first half of FY2013 in the west trial assembly yard. After confirming the fit of newly supplemented sandstone, it was dismantled once to secure space for the repair of sandstone.

Trial assembly of the lower platform was commenced in the beginning of FY2014, and is currently ongoing.



Fig. 73: Trial assembly of the framework (viewed from the northeast)



Fig. 74: Trial assembly of the upper foundation (viewed from the northwest)



Fig. 75: Trial assembly of the lower platform (viewed from the west; June 10, 2014)

Section 2 Reassembly of the Platform Basement

Presently, the restoration work has been stopped after dismantling N25, and the top portion of the stone lines in the foundation lies exposed. Excavation of the foundation was decided to be terminated at this point, in order to preserve the original position of the stone lines in the foundation and maintain the original bearing capacity of the soil by leaving the bottom of the foundation digging ground as it is. At the 23rd Technical Session of the International Coordinating Committee held in June 2014, the necessity of exhibiting and disclosing the progress of the state of restoration was discussed, and the use of geotextile to rebuild the lower platform was recommended. Given this result, approaches were hastily made to Dr. Yoshinori Iwasaki, Chairman of Geo-Research Institute, and Dr. Mitsuharu Fukuda of Taisei Geotech to seek their onsite guidance, and policies for reassembly the lower platform using consolidated soil and geotextile were decided as described below.

Hereafter, full-fledged reassembly work is planned to begin after June. First, a compacted layer approximately 10cm deep made of consolidated soil will be laid on top of the stone lines in the foundation on the basement digging ground to protect the stones and attempt to stabilize N25. Then, reassembly work will begin in sequence from N25, with plans to complete reassembly tiers up to N22 during the first work period, which will run up to the next rainy season in September 2014. In that condition, reassembly work will be suspended during the rainy season, but the consolidated soil will be prepared. After the rainy season, N21 to N18 will be rebuilt during the second work period up to December 2014, and N17 and above will be reassembled during the third work period. Reassembly of the Southern Sanctuary in its entirety is thus planned to be completed by the end of FY2014.

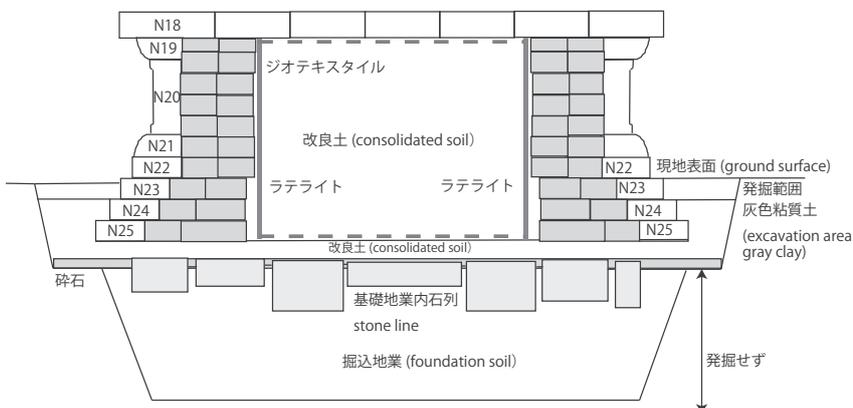


Fig. 76: Schematic diagram of the lower platform reassembly work