

Research regarding design method of earth transportation tunnel canal

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Constructions along with earth transportation are increasing, such as earth bypass tunnel of dam reservoir and water conducting facilities. In this research, we aimed development of design method of transportation tunnels without earth accumulation, and examined and showed earth inflow condition setting method of earth transportation tunnels, as well as presented the relationship between canals condition and earth transportation capacity by organizing previous tests . In addition, regarding lacking conditions, we performed hydraulic test and collected the data. Moreover, we examined and organized the attitude of water canals' maintenance and management, as well as performed the test of normal concrete wear damage caused by sand gravel impact and water flow, to grasp the relationship between operation burden and concrete ablation value.

Keyword : earth bypass, earth transportation, dragging power, concrete ablation