

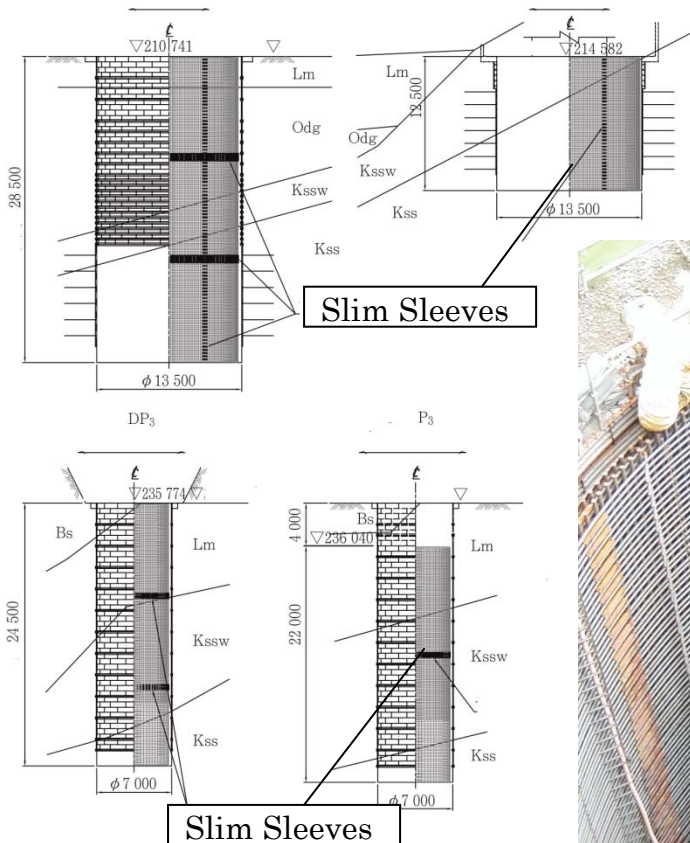
Ura Takao Bridge(Ken-O Expressway), Large Caisson

Owner: Central Nippon Expressway Co., Ltd.
 Design: Kajima Corp.
 Contractor: Kajima, Hazama JV
 Completed: March 2013
 Structure: 4 Span Continuous Waved Steel Web and Rigid Frame Box Girders

NMB Slim Sleeve: Total 11,000 S11U, S12U, S16U and S10U(685)~S16U(685)



Ura Takao Bridge located in between Hachioji Junction crossing Ken-O Expressway and Chuo Expressway, and Takaozan Tunnel required large diameter caissons to accommodate the environmental conditions. In order to rationalize the design requirements and construction process and to achieve a time saving, high strength rebars (Grade SD490 and SD390) were used and a rebar fabrication method using man lifts was applied along with NMB Slim Sleeves as the first grade reliable rebar splices on the Japan civil engineering code requirements. This method resulted in 15 days saving compared with scaffold platform construction and also 20 days saving on rebar fabrication work.



Large diameter caisson and slim sleeves installed (brown colored in photo)



(Unit in mm)