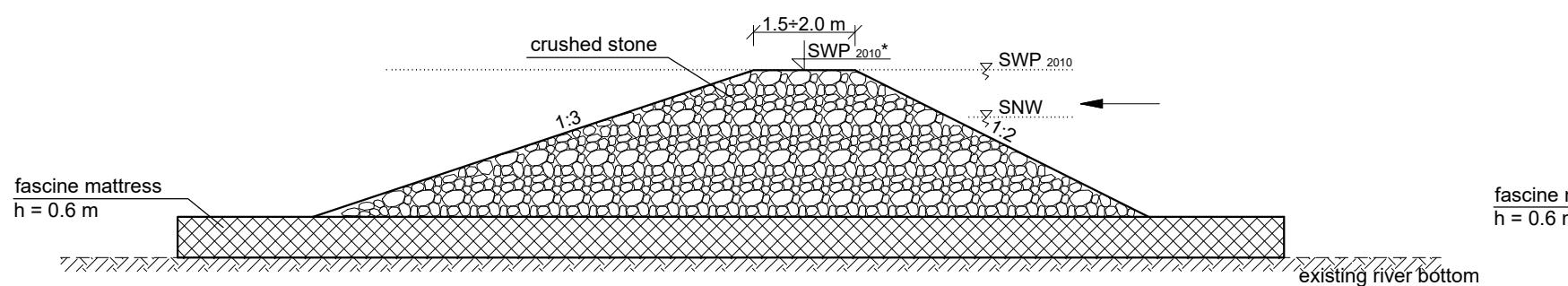


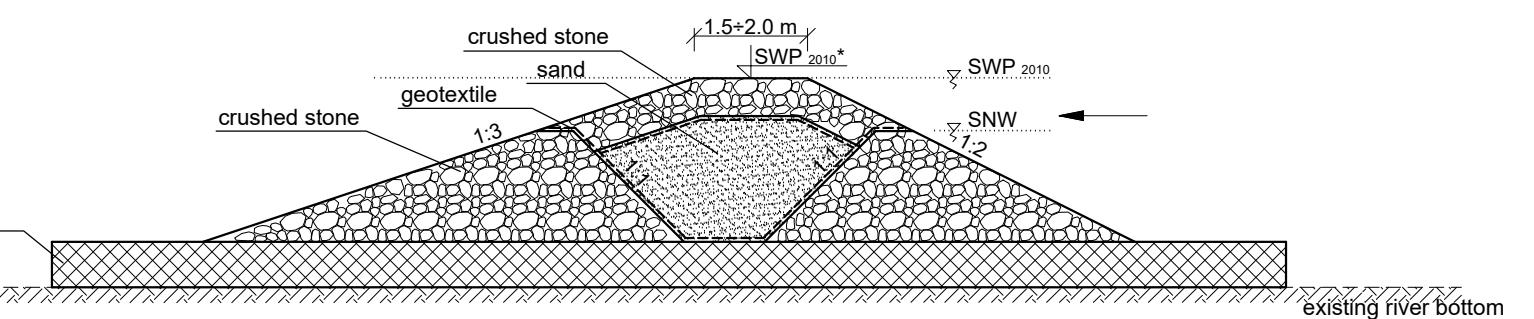
CONSTRUCTION OF NEWLY-DESIGNED GROYNES

Cross-section
Head part,
stream part - type 1
scale 1:100



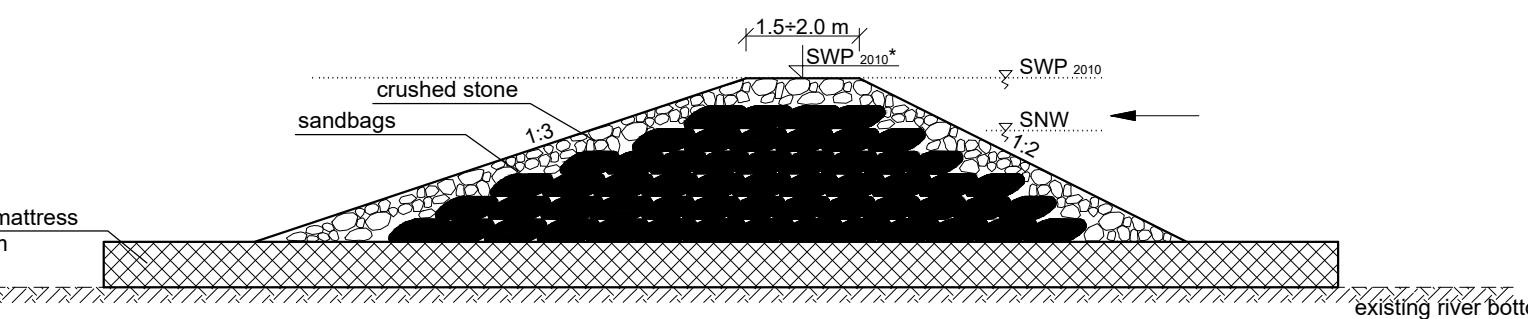
* SWP 2010; from 542.4 to 617.5 km
SWP 2010 - 0.5 m; from 617.6 to 694.0 km for KRC-W5

Cross-section
Stream part - type 2
scale 1:100



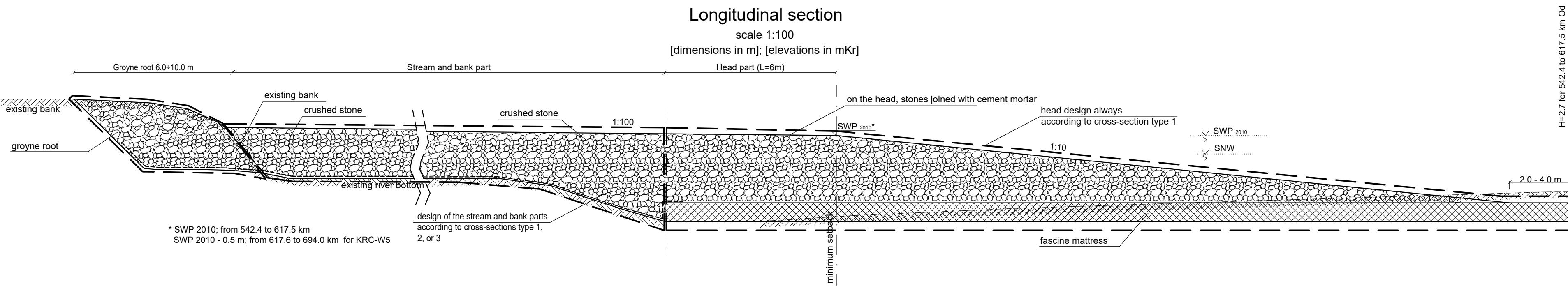
* SWP 2010; from 542.4 to 617.5 km
SWP 2010 - 0.5 m; from 617.6 to 694.0 km for KRC-W5

Cross-section
Stream part - type 3
scale 1:100



* SWP 2010; from 542.4 to 617.5 km
SWP 2010 - 0.5 m; from 617.6 to 694.0 km for KRC-W5

Longitudinal section
scale 1:100
[dimensions in m]; [elevations in mKr]



* SWP 2010; from 542.4 to 617.5 km
SWP 2010 - 0.5 m; from 617.6 to 694.0 km for KRC-W5

COMMENTS:

1. The type of construction of the stream part will depend on the availability of building materials.
2. The surface of the groyne crest may be constructed as a paved structure for all three types.

Project unit: SWECO	Project unit: Sweco Consulting Sp.z o.o. 60-829 Poznań, ul. Franklina Roosevelt 22; Tel. (0-61) 864 93 00; Fax. (0-61) 864 93 01 Office in Szczecin 71-641 Szczecin, ul. Łyskowskiego 16; Tel. 605 071 242
Employer: State Water Management Polish Waters Regional Water Management Authority in Szczecin ul. Tama Pomorska 13a 70-030 Szczecin	Project title: Odra-Vistula Flood Management Project Contract 5.4: Design and Construction Supervision for works, Project Management, Technical Assistance and Training Technical Support for the Project and Strengthening of PIU's Institutional Capacity for RZGW in Szczecin
Project No.: 353688	
Subject of document: IB.2 Modernisation works on border Odra, Stage I: Modernisation works on border Odra to enable winter icebreaking Stage II: Reconstruction of river control infrastructure	
Type of document: EMP Trade: Hydro engineering Date: 04.2020 Function: Title, full name Chief designer: mgr inż. Witold Samolong Designer: mgr inż. Łukasz Gontarz Checked by: mgr inż. Marek Chmielewski Prepared by:	Figure title: Construction of newly-designed groynes Fig. No: 1 Signature B2/Sz/76 ZAP/0004/P0OK/11 Engineering licence in construction and structures ZAP/0001/P0OK/14 Engineering licence in construction and structures

RECONSTRUCTION OF THE EXISTING GROYNE

