

O 133. INVESTIGATION OF URBAN FLOOD PROTECTION STRUCTURES AND THEIR PROBLEMS: A CASE STUDY OF KONYA FLOOD PROTECTION STRUCTURES

Abdul Raof Wahidi¹, Cengiz Kutsal², Şerife Yurdagül Kumcu³

¹*Civil Engineer, Necmettin Erbakan University*

²*Civil Engineer, State Hydraulic Works*

³*Assoc. Prof., Necmettin Erbakan University, Civil Engineering Department*

E-mail: yurdagulkumcu@gmail.com

ABSTRACT: Floods events occur frequently in Turkey. Therefore, like earthquake and other natural disasters, floods also should be taken in to measure in advance as well. Therefore, with all other operations, constructing flood protection structures with a good planning and project, their proper using and their protection is important for ensuring that floods do not become a disaster. With lack of precaution listed above sometimes flood put huge effects on areas where are not identified as risky areas on flood risk assessment maps. In this study, primarily, the concept of flood, the effects, causes, types and the principles of protection from flood are discussed. Secondly, the problems in the flood protection structures located in Konya province, Turkey, were exemplified by photographs and evaluated. Lastly the sources of the problems, their effects on infrastructures, farmlands and domestics identified and some suggestion are made.

Keywords: Floods, flood protections, flood risks, open channels, culverts