



Urban Drainage Design Manual

U.S. Department of Transportation, Federal Highway Administration

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Urban Drainage Design Manual U.S. Department of Transportation, Federal Highway Administration (Hydraulic Engineering Circular 22, Third Edition) This publication provides a comprehensive and practical guide for the design of storm drainage systems associated with transportation facilities. Design guidance is provided for the design of storm drainage systems which collect, convey, and discharge stormwater flowing within and along the highway right-of-way. Methods and procedures are given for the hydraulic design of storm drainage systems. Design methods are presented for evaluating rainfall and runoff magnitude, pavement drainage, gutter flow, inlet design, median and roadside ditch flow, structure design, and storm drain piping. Procedures for the design of detention facilities are also presented, along with an overview of storm water pumping stations and urban water quality practices.

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