Chapter 5: Green Infrastructure Practices

This Chapter presents planning and design of green infrastructure practices acceptable for runoff reduction.

Green infrastructure planning includes measures for preservation of natural features of the site and reduction of proposed impervious cover. The green infrastructure techniques include practices that enable reductions in the calculated runoff from contributing areas and the required water quality volume.

Section 5.1 Planning for Green Infrastructure: Preservation of Natural Features and Conservation Design

The first step in planning for stormwater management using green infrastructure is to avoid or minimize land disturbance by preserving natural areas. Development should be strategically located based on the location of resource areas and physical conditions at a site. Also, in finalizing construction, soils must be restored to the original properties and according to the intended function of the proposed practices. Preservation of natural features includes techniques to foster the identification and preservation of natural areas that can be used in the protection of water, habitat and vegetative resources. Conservation design includes laying out the elements of a development project in such a way that the site design takes advantage of a site's natural features, preserves the more sensitive areas and identifies any site constraints and opportunities to prevent or reduce negative effects of development. The techniques covered in this section are listed in Table 5.1.

Practice	Description
Preservation of Undisturbed Areas	Delineate and place into permanent conservation undisturbed forests, native vegetated areas, riparian corridors, wetlands, and natural terrain.
Preservation of Buffers	Define, delineate and preserve naturally vegetated buffers along perennial streams, rivers, shorelines and wetlands.
Reduction of Clearing and Grading	Limit clearing and grading to the minimum amount needed for roads, driveways, foundations, utilities and stormwater management facilities.
Locating Development in Less Sensitive Areas	Avoid sensitive resource areas such as floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats by locating development to fit the terrain in areas that will create the least impact.
Open Space Design	Use clustering, conservation design or open space design to reduce impervious cover, preserve more open space and protect water resources.
Soil Restoration	Restore the original properties and porosity of the soil by deep till and amendment with compost to reduce the generation of runoff and enhance the runoff reduction performance of post construction practices.

New York State Stormwater Management Design Manual

Lei Huang

New York State Stormwater Management Design Manual:

New York State Stormwater Management Design Manual ,2010 New York State Stormwater Management Design Manual Center for Watershed Protection, 2001 *Urban Storm Water Management Hormoz Pazwash*, 2011-04-28 Covering all elements of the storm water runoff process Urban Storm Water Management includes numerous examples and case studies to guide practitioners in the design maintenance and understanding of runoff systems erosion control systems and common design methods and misconceptions It covers storm water management in practice and in regulatio and Wastewater Engineering, Volume 1 Lawrence K. Wang, Mu-Hao Sung Wang, Nazih K. Shammas, 2024-04-16 WATER and WASTEWATER ENGINEERING The classic guide to water and wastewater engineering returns Water and wastewater engineering is a crucial branch of civil engineering dealing with water resources and with the challenges posed by water and wastewater Generations of engineers have developed techniques for purifying desalinating and transforming water and wastewater techniques which have only grown more critical as climate change and global population growth create new challenges and opportunities There has never been a more urgent need for a comprehensive guide to the management of water and its various engineering subdisciplines Water and Wastewater Engineering Hydraulics Hydrology and Management 4th edition offers key fundamentals in a practical context to engineers and engineering students Updated to address growing urbanization and industrialization with corresponding stress on water and wastewater systems this vital textbook has been fully revised to reflect the latest research and case studies This volume focuses primarily with hydrology and hydraulics along with chapters treating groundwater and surface water sources Readers of Hydraulics Hydrology and Management will also find Coverage of water supply water sources water distribution and more Detailed treatment of both sanitary sewer and urban stormwater drainage In depth analysis of infrastructure issues with respect to water resources pumping and handling This textbook is ideal for advanced students in civil environmental and chemical engineering departments as well as for early career engineers plant managers and urban and regional planners Clean Water and Sanitation Walter Leal Filho, Anabela Marisa Azul, Luciana Brandli, Amanda Lange Salvia, Tony Wall, 2022-07-09 The problems related to the process of industrialisation such as biodiversity depletion climate change and a worsening of health and living conditions especially but not only in developing countries intensify Therefore there is an increasing need to search for integrated solutions to make development more sustainable The United Nations has acknowledged the problem and approved the 2030 Agenda for Sustainable Development On 1st January 2016 the 17 Sustainable Development Goals SDGs of the Agenda officially came into force These goals cover the three dimensions of sustainable development economic growth social inclusion and environmental protection The Encyclopedia of the UN Sustainable Development Goals comprehensively addresses the SDGs in an integrated way It encompasses 17 volumes each devoted to one of the 17 SDGs This volume is dedicated to SDG 6 Ensure availability and sustainable management of water and sanitation for all Water and sanitation are fundamental to

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Design and Construction of Urban Stormwater Management Systems American Society of Civil Engineers,1993-01-01 Prepared by the Task Committee of the Urban Water Resources Research Council of ASCE Copublished by ASCE and the Water Environment Federation Design and Construction of Urban Stormwater Management Systems presents a comprehensive examination of the issues involved in engineering urban stormwater systems This Manual which updates relevant portions of Design and Construction of Sanitary and Storm Sewers MOP 37 reflects the many changes taking place in the field such as the use of microcomputers and the need to control the quality of runoff as well as the quantity Chapters are prepared by authors with experience and expertise in the particular subject area The Manual aids the practicing engineer by presenting a brief summary of currently accepted procedures relating to the following areas financial services regulations surveys and investigations design concepts and master planning hydrology and water quality storm drainage hydraulics and computer modeling

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Approaches to Water Sensitive Urban Design Ashok Sharma, Ted Gardner, Don Begbie, 2018-10-03 Approaches to Water Sensitive Urban Design Potential Design Ecological Health Economics Policies and Community Perceptions covers all aspects on the implementation of sustainable storm water systems for urban and suburban areas whether they are labeled as WSUD Low Impact Development LID Green Infrastructure GI Sustainable Urban Drainage Systems SUDS or the Sponge City Concept These systems and approaches are becoming an integral part of developing water sensitive cities as they are

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