

Appendix I-A Low Impact Development BMPs

Introduction

This appendix lists the Low Impact Development (LID) stormwater management BMPs described in this manual that qualify as LID BMPs for the purposes set forth in Snohomish County codes, such as Chapter 30.63C SCC - Low Impact Development. Some of these BMPs, such as the on-site stormwater infiltration and dispersion BMPs set forth in Volumes III and V, must be implemented in certain projects according to requirements in Chapter 30.63A SCC (Drainage). Others, such as bioretention facilities, are LID BMPs by virtue of their scale or hydrologic function, and, if implemented, shall be factored into hydrologic modeling for a project, but these BMPs are not required by any Snohomish County code, including codes that require implementation of LID BMPs in certain geographic areas or certain types of development such as rural cluster subdivisions.

This appendix also lists LID BMPs that are not drainage facilities, but that qualify as LID BMPs for the purposes of Chapter 30.63C SCC, and that need to be considered in hydrologic modeling required by Chapter 30.63A SCC. An example is permeable pavement, a collective term for porous asphalt, porous concrete, permeable pavers and grid/lattice pavement systems. Permeable pavement is gaining wider usage for its ability to provide a pavement surface that infiltrates runoff. However, site-specific engineering design is required to ensure proper functioning of the pavement, including infiltration and structural stability. No single design is appropriate for every use or location, but general design guidelines have been compiled for pedestrian facility projects and are provided in EDDS Section 4-10, Permeable Pavement.

LID BMPs for which implementation is required by Chapters 30.63A and 30.63C SCC

Drainage facility LID BMPs

Snohomish County Drainage Manual Volume III

- Non-Pollution-Generating Surface (NPGIS) infiltration systems
- NPGIS dispersion systems
- NPGIS perforated stub-out connections

Snohomish County Drainage Manual Volume V

- Pollution-generating impervious surface (PGIS) concentrated flow dispersion
- PGIS sheet flow dispersion
- Soil quality and depth

LID BMPs for which implementation is not required by County code

Drainage facility LID BMPs

Snohomish County Drainage Manual Volume III

Bioretention facilities (basins, swales, and slopes)

Snohomish County Drainage Manual Volume V

Full dispersion

WSDOT Highway Runoff Manual, allowed pursuant to SCC 30.63A.140

Natural dispersion

Engineered dispersion

Other LID BMPs for which implementation is not required by County code

Permeable pavement

Vegetated roofs

Minimal excavation or pin-pile foundations