GUIDE TO LOW IMPACT DEVELOPMENT PRACTICES

IMPERVIOUS REDUCTION

Low-impact development (LID) is a process to manage rain water "at the source" using natural vegetation and inexpensive, small-scale practices. LID can be applied to new construction or as a retrofit to existing development.

What is it?		How does it help?
☐ **Depave** The removal of unnecessary pavement and impervious surfaces		• One-inch of rain fall on a 1,000 square foot roof will generate over 620 gallons of water! • Removing impervious surfaces (such as pavement) will restore the absorptive capability of underlying soils and minimize stormwater runoff
☐ **Permeable Pavers** Interlocking concrete pavers or open-grid eco-pavers allow runoff to soak into the underlying soil		• Pavers with un-mortared joints allow water to pass through and soak into the ground • The sub-surface gravel base will temporarily hold water and slowly release it into the soil • Pavers are a good aesthetic option for patios, driveways or small parking lots
☐ **Permeable Pavement** Specially engineered pavements that allow water to soak through to underlying soils while still maintaining structural strength		• Pervious concrete and permeable asphalt have larger pore spaces that allow water to pass through • The sub-surface gravel base will temporarily hold water and slowly release it into the soil • Pervious concrete and permeable asphalt are more cost effective for larger projects such as parking lots • Underlying soils must have infiltration rate greater than .5-inches per hour
☐ **Ecoroof** Roof systems that are entirely or partially covered with soil and plants to manage stormwater		• Specially-mixed soils help absorb rainfall, which provides significant reduction in runoff volume • Vegetation provides habitat for birds and pollinators • The soil layer provides insulation that helps lower heating and cooling costs for the building • An ecoroof can last twice as long as a conventional roof, thus reducing replacement costs

Visit **www.conservationdistrict.org** to learn more about the urban conservation program and additional services offered by the Clackamas Soil and Water Conservation District.

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