

SURFACE WATER DESIGN MANUAL UPDATE

Based on adoption of: 2016 *King County Surface Water Design Manual* and Sammamish Addendum



Current Pond Design:

*Little or no landscaping
Not visually aesthetically pleasing
Unattractive street view*



Proposed New Pond Design:

*Incorporates native plants
Wildlife friendly
Aesthetically pleasing*

- Major Changes -

- Low Impact Development (LID) techniques required for all new and replaced impervious surfaces
- Feasibility/Infeasibility criteria are clearly defined
- ‘Cafeteria Menu’ approach for selection of bio-retention, limited infiltration, and/or permeable pavement Low Impact Development (LID) techniques
- Flow control and water quality facilities may be required for medium sized projects
- Prescriptive, non-engineered approach to Low Impact Development (LID) design

Project Size	Typical Project	Project Drainage Required with New Manual	Impacts of Change
< 1,999 sf of new plus replaced impervious surface	Addition to a single-family house (patio/parking area/etc.) Or new single-family house	<ul style="list-style-type: none"> • No Drainage review required* 	No Change
Small - <2,000 - 5,000 sf of new plus replaced impervious and pollution generating impervious surface	Single-family in-fill (Tear down/Rebuild) City Capital Improvement Projects (CIP)	<ul style="list-style-type: none"> • Increased drainage design/review required • Low Impact Development (LID) required to maximum extent feasible • No flow control/water quality facility required 	Potentially Small Change
Medium - > 5,000 - 9,999 sf of new plus replaced impervious surface	2-4 lot short-plat, large single-family house City Capital Improvement Projects (CIP)	<ul style="list-style-type: none"> • Increased drainage design/review required • Low Impact Development (LID) techniques required to maximum extent feasible • Potential flow control/water quality facility required 	Potentially Large Change
Large - 10,000 sf or greater of new plus replaced impervious surface	Large commercial facility, plat of > 4 lots City Capital Improvements Projects (CIP)	<ul style="list-style-type: none"> • Increased drainage design/review required • Low Impact Development (LID) techniques required to maximum extent feasible • Flow control/water quality facility required 	Potentially Small Change

*Development in Inglewood Historic Plat has drainage review required when proposing greater than 500 sf of new plus replaced impervious surface.

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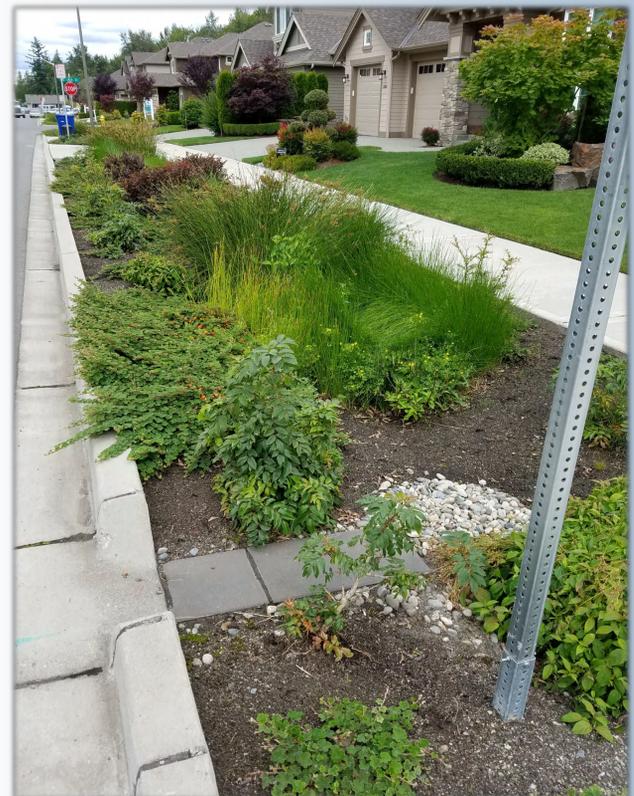
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REQUIRES LOW IMPACT DEVELOPMENT TECHNIQUES & FEASIBILITY ASSESSED IN THE FOLLOWING ORDER:

- 1) Full Dispersion
- 2) Full Infiltration
- 3) Limited Infiltration, Bio-retention, Pervious Pavements (*Cafeteria Menu*)
- 4) Basic Dispersion
- 5) Reduced Impervious Footprints and/or Preservation of Native Vegetation



Full Dispersion to a Vegetated Flow Area



*Full Infiltration/Limited Infiltration/
Bio-retention*



*Pervious Pavement
(Grasscrete)*



Basic Dispersion from a downspout