

CITY OF KIRKLAND

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DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY

Policy D-3: TARGETED AND FULL DRAINAGE REVIEW REQUIREMENTS

Kirkland Municipal Code (KMC) Chapter 15.52 requires a storm drainage design for all projects that trigger a drainage review per KMC 15.52.050. All projects must collect and convey stormwater runoff in a manner that does not create a drainage problem (or aggravate an existing problem) on adjacent properties. Kirkland has adopted the 2016 King County Surface Water Design Manual (KCSWDM) and the Kirkland Addendum to the 2016 KCSWDM (Pre-Approved Plans Policy D-10) for development in Kirkland, effective January 1, 2017.

Below are the levels of drainage review used in Kirkland (based on project and site characteristics):

- Basic drainage review
- Simplified drainage review
- Targeted drainage review
- Full drainage review

This policy includes the drainage review criteria and applicable submittal requirements for projects requiring Targeted and Full drainage review. See Pre-Approved Plans Policy D-2 for details on Basic and Simplified drainage reviews.

A. Basic and Simplified Drainage Review

Typical **Basic** projects create between 500 and 1,999ft² *new impervious¹ plus replaced impervious² surface areas* and **Simplified** projects are single family residential creating 2,000ft² or more of new plus replaced impervious surface area, and do not contain critical areas. See Policy D-2 for details on Basic and Simplified drainage review criteria and requirements.

B. Targeted Drainage Review

Targeted drainage review is required for projects that meet the new/replaced impervious area criteria for Basic or Simplified, but also have additional characteristics that require a more in-depth level of review, such as:

- Projects containing or adjacent to a flood, erosion, steep slope, or landslide hazard areas,
- Projects containing or adjacent to surface water critical areas such as wetlands, streams, and lakes,
- Projects proposing to construct or modify a drainage pipe/ditch that is 12 in or more in size/depth, or receives runoff from a drainage pipe/ditch that is 12 in or more in size/depth,
- Projects are a redevelopment project proposing \$100,000 or more of improvements to an existing high-use site.

C. Full Project Drainage Review

Full drainage review is required for the following proposed projects (new or redevelopment):

- All non-single family residential projects that result in 2,000ft² or more of new plus replaced impervious surface area, OR
- Single family residential projects that exceed the Simplified drainage review level. For example:
 - Project results in 5,000ft² or more new plus replaced pollution generating impervious surface (PGIS) area,
 - Project results in ¾ acre or more pollution generating pervious surface (PGPS) area (like lawn, landscaped areas, grassed modular grid pavement, parks, and sports fields).

¹**New impervious surface** means the addition of a hard or compacted surface like roofs, pavement, gravel, or dirt; or the addition of a more compacted surface, like paving over pre-existing dirt or gravel.

²**Replaced impervious surface** means any existing impervious surface on the project site that is proposed to be removed (removal of building/concrete/asphalt down to bare soil) and re-established as impervious surface.

D. Drainage Submittal Requirements Table

DRAINAGE REVIEW SUBMITTALS		
Permit or Project	Drainage Review Level	Required for Drainage Review
Single Family Residential	If part of a subdivision	<ul style="list-style-type: none"> • Drainage Plan for individual site/lot (as shown on approved LSM) • Soil Report (if required) • CSWPP Plan
	Targeted	<ul style="list-style-type: none"> • Engineering Plans (as shown on approved LSM) • Drainage TIR • Soil Report (if required) • CSWPP Plan
	Full	<ul style="list-style-type: none"> • Engineering Plans (as shown on approved LSM) • Drainage TIR addressing ALL core requirements • Soil Report • CSWPP Plan
Commercial and Multi-Family	Targeted	<ul style="list-style-type: none"> • Engineering Plans • Drainage TIR • Soil Report (if required) • CSWPP Plan
	Full	<ul style="list-style-type: none"> • Engineering Plans • Drainage TIR addressing ALL core requirements • Soil Report (if required) • CSWPP Plan
Other Projects	Targeted or Full	<ul style="list-style-type: none"> • Engineering Plans • Drainage TIR • Soil Report (if required) • CSWPP Plan
<p>Notes:</p> <ol style="list-style-type: none"> 1. Engineering plans must be signed and stamped by a professional engineer registered in the state of Washington. 2. Drainage Technical Information Report (TIR) for additional information on TIR requirements, see the 2016 KCSWDM, section 2.3.1.1. 3. Soil Report is required for infiltration facilities and infiltrating flow control BMPs. For additional information on the soil report requirements, see Chapter 5.2 (2016 KCSWDM) for infiltration facilities, and Pre-Approved Plans Policy D-8 for flow control BMPs. 4. Construction Stormwater Pollution Prevention (CSWPP) Plan includes both erosion control measures and stormwater pollution prevention and spill measures. For more information, see Pre-Approved Plans Policy D-12. 5. For terminology clarifications, see definitions in the 2016 KCSWDM. 		