

# Abbreviated Drainage Review - Engineered Civil Plan Checklist



Abbreviated Drainage Review – Engineered Site Plan Requirements		Document Name	Page Number	If NA, Explain
<a href="#">2021 KCSDM Vol II 1.4.2.1</a>	North arrow.			
<a href="#">2021 KCSDM Vol II 1.4.2.1</a>	Graphic scale.			
<a href="#">2021 KCSDM Vol II 1.4.2.1</a>	Title block.			
<a href="#">2021 KCSDM Vol II 1.4.2.1</a>	Revision block.			
<a href="#">2021 KCSDM Vol II 1.4.2.1</a>	Property boundaries.			
<a href="#">2021 KCSDM Vol II 1.4.2.1</a>	All easements to remain.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Existing utilities to remain, and all associated easements.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Existing structures (buildings, parking lots and driveways, etc.) to remain.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Existing natural features such as wetlands, streams, slopes and their associated buffers and applicable construction setback			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Plan sheets – Required sheet size is 22" x 34" unless waived by the director.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Datum – All datum shall be either NGVD29 or NAVD88.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Scale – Preferred horizontal scales are 1" = 20', 1" = 30', 1" = 40' or 1" = 50'. Minimum scale is 1" = 100' (make the scale as large as the plan sheet size can reasonably accommodate). Profiles shall use 1" = 5' or 1" = 10' vertical.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Owner, applicant, and agent information – Name, address, email address, and telephone number.			

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<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Engineer or person preparing the plans – Name, address, email address, and telephone number of the person preparing the plan (Engineer, if an engineered plan).			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Assessor’s tax parcel			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Vicinity map – Must be of sufficient clarity to locate the property.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Symbol legend			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Property boundaries with dimensions.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Structures and other impervious surfaces such as parking lots, driveways, patios, buildings, etc.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Roads and right of way including roadway and right of way widths, surfacing and road names.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Sanitary sewers and water utilities.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Common open space.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Public dedications.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Other manmade features affecting existing topography or proposed improvements.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	All existing and proposed: Easements and tracts.			

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<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Offsite waste treatment systems – Show the location of onsite and adjacent offsite waste treatment systems, such as septic tanks and distribution systems, and onsite and adjacent offsite wells and underground storage tanks, all in accordance with Kitsap Public Health District regulations.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Existing topography for the project site – At a minimum, topography shall be included for the limits of all land-disturbed area, flow-contributing area and the downstream flow path. Additional topography may be required to address relevant topographic features. Topographic contour lines must be shown as described in the plan type being prepared.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Land disturbing activity – Show proposed limits of land-disturbing activity.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Surface water discharge – Provide ground surface elevations for a reasonable "fan" around points of discharge extending at least 50 feet downstream of all point discharge outlets.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Flow direction – Provide arrows that indicate the direction of surface flow on all public and private property and for all existing conveyance systems.			
<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Hydrologic features – Provide spot elevations in addition to contour lines to aid in delineating the boundaries and depth of all existing floodplains, wetlands, channels, swales, streams, storm drainage systems, roads (low spots), bogs, depressions, springs, seeps, swales, ditches, pipes, groundwater, and seasonal standing water.			

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<a href="#">2021 KCSDM Vol II 1.4.2.2</a>	Revisions – Clearly identify on each sheet, by clouding or other visible notation, all revisions made.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Show the extent of cuts and fills by existing and proposed contours, profiles, and/or other explicit designations.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Notation of quantities, in cubic yards, of excavation and/or embankment throughout the project site.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Contour lines at 2-foot intervals from the best available source, with the source clearly identified. 5-foot contour intervals may be used in areas of steep slopes. Contours may be limited to the affected portion of the site.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Project datum.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Plan views of conveyance facilities (e.g., pipes, culverts, channels, swales, structures, etc.) showing the following:			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	a. Exact locations (e.g., station and offset, or dimensioning) of conveyance facilities.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	b. Conveyance facility sizes, types, materials, lengths of runs, and gradients.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	c. Structure identifier (catch basin or manhole number).			

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<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	d. Type of structure (e.g., Type 2 Catch Basin).			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	e. Top elevation and invert elevations in/out of structures.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	f. Outfalls.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	g. Energy dissipators.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Notes or references to details, cross-sections, profiles, etc.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Locations, types, and sizes of on-site stormwater management BMPs. Include details for construction as needed.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Cross-sections for at least the following:			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	a. Roadways, including access roads.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	b. Proposed conveyance facilities.			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	Standard plan notes per <a href="#">Appendix B</a> .			
<a href="#">2021 KCSDM Vol II 1.4.2.3</a>	In order to minimize duplication of information where plan and profile views appear on the same sheet, drainage facility information provided in the plan view can be limited to the following: structure identifier, type of structure, pipe types and materials, and lengths of runs.			

**Community Development**

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<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	Profile views shall be provided for drainage and roadways, including the following:			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	a. Existing and finished grades.			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	b. Existing underground utilities where such utilities cross proposed drainage facilities.			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	c. Conveyance facility (e.g., pipes, culverts, channels, swales, structures, etc.) sizes, types and materials, lengths of runs, gradients, structure types and identifying numbers (if multiple structures), invert elevations in/out of structures, and top elevations of structures.			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	Details of the connection to the drainage system and the energy dissipation structure.			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	Pavement restoration detail.			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	Existing drainage system with elevations and inverts for a minimum of 100 feet upstream and downstream of proposed connection.			

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<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	Proposed means of access to drainage structures.			
<b>Only Projects that Connect to a Drainage System in the Right of Way</b>	Conveyance calculations and energy dissipation calculations within the Drainage Report.			
<b>Only Projects that Construct Improvements in the Right of Way</b>	Exact lines, grades, and gradients of proposed roadways.			
<b>Only Projects that Construct Improvements in the Right of Way</b>	Profiles of drainage facilities and roadways, including the following:			
<b>Only Projects that Construct Improvements in the Right of Way</b>	a. Existing and finished grades.			
<b>Only Projects that Construct Improvements in the Right of Way</b>	b. Existing underground utilities where such utilities cross proposed drainage facilities.			
<b>Only Projects that Construct Improvements in the Right of Way</b>	c. Conveyance pipe, culvert, channel, and swale sizes, types and materials, lengths of runs, and gradients.			
<b>Only Projects that Construct Improvements in the Right of Way</b>	d. Structures, including types and identifying numbers (if multiple structures), invert elevations in/out of structures, and top elevations.			

<b>Abbreviated Drainage Review – Engineered Site Plan Requirements</b>		Document Name	Page Number	If NA, Explain
<b>Only Projects that Construct Improvements in Critical Areas or Critical Area Buffers</b>	The critical area being impacted (wetland, slope, stream, etc.) and the proposed mitigation, including details for construction.			
<b>Only Projects that Construct Improvements in Critical Areas or Critical Area Buffers</b>	Documentation from the professional engineer that the proposed mitigation design is in compliance with critical area codes and standards (may be stated on the face of the plans or in the Drainage Report).			
<b>Only Projects that Construct Improvements in Critical Areas or Critical Area Buffers</b>	Documentation of concurrence from wetland biologist, geotechnical consultant and/or other professional, as appropriate, that the engineered design meets the recommendation of the professional.			
<b>Only Projects that Construct Improvements in Critical Areas or Critical Area Buffers</b>	Profile of the drainage system per <a href="#">1.4.2.3 Site Plans and Profiles</a> if the project is associated with a steep or otherwise geologically hazardous slope, or waterfront slope.			
<b>Only Projects that Construct Improvements in Critical Areas or Critical Area Buffers</b>	Call-out including label and elevation of the Line of Ordinary High Water, if a waterfront parcel.			