



MINOR PROJECT Stormwater Form

Cowlitz County Department of Public Works / Stormwater Division

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This document is a template form designed to fulfill Cowlitz County Code 16.22, which requires projects meeting the criteria below to submit a stormwater site plan that complies with Minimum Requirements #1 through #5 from the Stormwater Management Manual for Western Washington.

ELIGIBLE PROJECTS

New construction, redevelopment and land disturbing projects that meet the following criteria are eligible to use this form:

- Disturbing at least 5,000 square feet but less than 6,999 of land that is not part of a larger common plan of development); **and/or**
- Creating and replacing (*in total*) at least 500 square feet but less than 1,999 square feet of hard surfaces

INSTRUCTIONS FOR USING THIS FORM

- Please complete all sections of this form and answer all questions as completely as possible:

SECTION 1: Site Drainage Plan

SECTION 2: Erosion and Sediment Control During Construction

- For all project plan drawings, either use the blank grid sheets provided in this packet or submit clean and legible site plans separately.
- Please submit this document with a completed and signed **Stormwater Plan Review Submittal Form**.

More information on meeting these requirements can be found in the Cowlitz Stormwater Guidelines document. For assistance please contact 360-577-3030.

APPLICANT/PROJECT ADDRESS

Applicant Name:
Project Address:
Project Description:

SECTION 1: SITE DRAINAGE PLAN

DRAINAGE DESIGN GUIDELINES

Check each box to certify that the following drainage guidelines and standards will be met on the project:

- Applicable setbacks for all drainage system components and stormwater management practices
- Minimum final grade (slope) of 2% away from building foundations
- Existing natural drainage patterns and outfalls preserved to the maximum extent practicable
- No *increase* in existing runoff sheet flow or concentrated flow discharges, or *new* runoff discharges, onto adjacent properties, unless a drainage easement is obtained and recorded with the adjacent property.
- An approved point of discharge (e.g. curb cut/street gutter, storm drain, roadside ditch, swale, or open water drain or ditch*, etc.) for all drainage collection and conveyance systems to ensure that they will not create a public nuisance, safety hazard or harm adjacent properties

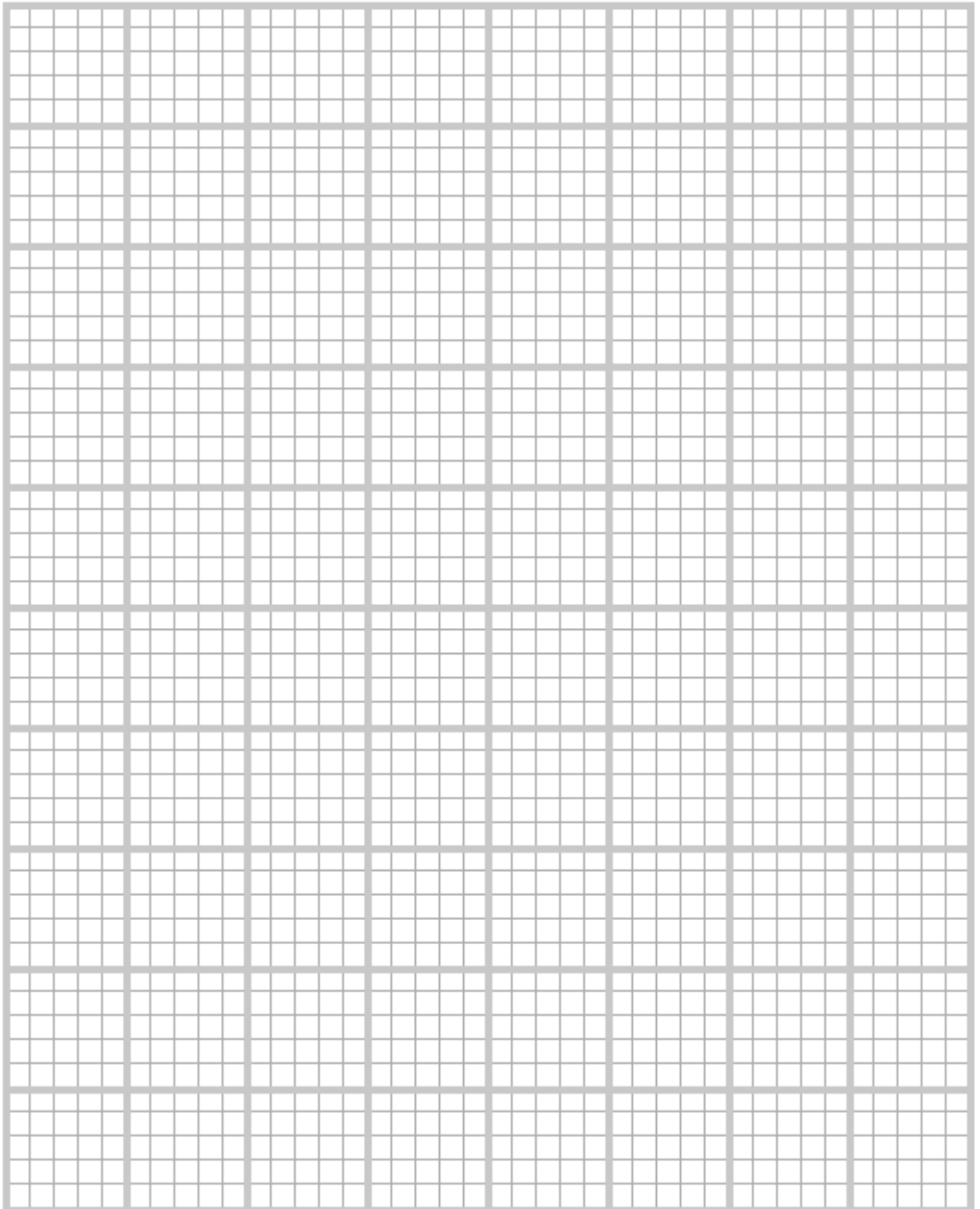
** Note: A permit is required to discharge to a Consolidated Diking Improvement District #1 (CDID#1) waterway (open water ditch or drain). Contact CDID#1 at 360-423-2493 or see www.cdid1.org for more information.*

SITE DRAINAGE PLAN

On the next page or submitted separately, provide a drawing of the site showing the final proposed layout of the project to include the following items (this may be drawn by hand or drafted electronically):

- Location and footprint of all proposed impervious hard surfaces including structures, driveways, parking pads, sidewalks, decks, patios and accessory buildings
- Location of any retaining walls and embankments
- Proposed drainage collection and conveyance systems including roof downspouts, area drains, french drains, hard drainage pipes, sump pump discharges and open ditches/swales
- Drainage flow paths (shown with arrows) from roof downspouts and other hard surface areas (driveways, patios, etc.) to the eventual point of discharge from the project site.

SITE DRAINAGE PLAN DRAWING



SECTION 2: EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION

CONSTRUCTION EROSION AND SEDIMENT CONTROL MEASURES

For each topic below, select at least one **erosion and sediment control measure** that will be used on the project during the construction phase to reduce the potential for soil erosion and transport of sediment and pollutants from the site. If the item is not applicable to the site, check “*Not applicable*” and provide a rationale.

The numbers in parentheses reference the Best Management Practice (BMP) section in the Stormwater Management Manual for Western Washington, Volume II, where additional guidance and information on these measures can be obtained. Other approved measures not listed may be specified in the blanks provided; designs that involve engineering calculations should be prepared by a licensed engineer.

NOTE: This section will serve as the project’s Construction Stormwater Pollution Prevention Plan.

- *The erosion and sediment control measures identified below may need to be supplemented as on-site conditions dictate in order to effectively address erosion and sediment control for the project.*
- *Prior to land disturbance, a pre-construction inspection is required to ensure that all BMPs are in place and the site conforms to the plan.*

A. Preserve Vegetation and Mark Clearing Limits

Requirement: Retain topsoil and natural vegetation in an undisturbed state to the maximum extent practicable. Mark all clearing limits, sensitive areas and their buffers, and any trees that will be preserved. Limits shall be marked in such a way that any trees or vegetation to remain will not be harmed.

Applicable erosion and sediment control measures (*check all that will be used*):

- | | |
|--|---|
| <input type="checkbox"/> Preserving Native Vegetation (C101) | <input type="checkbox"/> Buffer Zones (C102) |
| <input type="checkbox"/> High Visibility Plastic Fence (C103) | <input type="checkbox"/> (Sediment) Fence – <i>orange only</i> (C233) |
| <input type="checkbox"/> Other _____ | |
| <input type="checkbox"/> not applicable – please explain why _____ | |

B. Construction Access

Requirement: Prevent vehicles from tracking soil from the site onto streets or neighboring properties by stabilizing the entrance with a rock pad. If possible, place the entrance where a future driveway will be located, as it may be possible to use the rock as a driveway base material. If sediment is tracked offsite, sweep or shovel it from the paved surface immediately.

Applicable erosion and sediment control measures (*check all that will be used*):

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Stabilized Construction Entrance (C105) | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Not applicable – please explain why _____ | |

C. Control Stormwater Runoff Flow Rates

Requirement: Protect properties and waterways downstream of the construction site from erosion by slowing down stormwater runoff from the site as much as possible.

Applicable erosion and sediment control measures (check all that will be used):

- Interceptor Swales & Dikes (C200)
- Check Dams (C207)
- Wattles (C235)
- Other _____
- Not applicable – please explain why _____

D. Sediment Controls

Requirement: Runoff from disturbed areas must pass through a sediment removal device. Sediment barriers are typically used to slow sheet flow of stormwater and allow the sediment to settle out behind the barrier.

Applicable erosion and sediment control measures (check all that will be used):

- Silt (Sediment) Fence (C233)
- Vegetated Strip (C234)
- Wattles (C235)
- Sidewalk Subgrade Curb Barrier
- Other _____
- Not applicable – please explain why _____

E. Stabilize Soils

Requirement: Protect exposed soils and stockpiles from rain, flowing water, and wind by covering them or planting grass.

During the wet season from October 1 through April 30, no soils or stockpiles shall remain exposed or unworked for more than 2 days. From May 1 to September 30, no soils or stockpiles shall remain exposed and unworked for more than 7 days.

Applicable erosion and sediment control measures (check all that will be used):

- Mulching (C121)
- Plastic Covering (C123)
- Compost (C125)
- Other _____
- Not applicable – please explain why _____

F. Protect Slopes

Requirement: Protect slopes by diverting water away from the top of the slope and establishing vegetation on slopes.

Applicable erosion and sediment control measures (check all that will be used):

- Nets & Blankets (C122)
- C130 Surface Roughening (C130)
- Pipe Slope Drain (C204)
- Other _____
- Element is not applicable – please explain why _____

G. Protect Drain Inlets

Requirement: Protect all storm drain inlets during construction so that site runoff does not enter the inlets without first being filtered to remove sediment. Install catch basin protection on all catch basins within 500 feet downstream of the project. Once the site is fully stabilized, catch basin protection must be removed.

Applicable erosion and sediment control measures (check all that will be used):

- Storm Drain Inlet Protection (C220) Other _____
- Element is not applicable – please explain why _____

H. Stabilize Channels and Outlets

Requirement: Stabilize all temporary and permanent conveyance channels and their outlets.

Applicable erosion and sediment control measures (check all that will be used):

- Nets & Blankets (C122) Check Dams (C207)
- Outlet Protection (C209) Other _____
- Element is not applicable – please explain why _____

I. Control Pollutants

Requirement: Handle and dispose of all pollutants, such as chemicals, paint, petroleum products, and concrete (wet and dry) to keep them out of rain and stormwater. Provide cover and containment for liquid materials and handle all concrete and concrete waste appropriately

Applicable erosion and sediment control measures (check all that will be used):

- Materials on Hand (C150) Concrete Handling (C151)
- Material Delivery, Storage and Containment (C153)
- Other _____
- Element is not applicable – please explain why _____

J. Control Dewatering

Requirement: If dewatering is needed, assess the condition of the pumped water. Clean, non-turbid dewatering water, such as groundwater, can be discharged to the stormwater system as long as it does not cause downstream erosion or flooding. Dirty or contaminated dewatering water must be filtered or may be discharged to the local sanitary sewer, if permitted.

Applicable erosion and sediment control measures (check all that will be used):

- Dewatering Plan (approved by Public Works Department)
- Element is not applicable – please explain why _____

K. Maintain Erosion and Sediment Control Measures

Requirement: Maintain and repair erosion and sediment control measures as needed. Inspect all measures at least weekly and after every storm event. Keep an erosion control inspection log on site and available for review by County staff at all times. Remove all temporary erosion and sediment control measures within 30 days after final site stabilization or if the measure is no longer needed.

Applicable erosion and sediment control measures (check all that will be used):

- Materials on Hand (C150) Certified Erosion and Sediment Control Lead [CESCL] (C160)
- Other _____

L. Manage the Project

Requirement: Coordinate all work before initial construction with subcontractors and other utilities to ensure no areas are prematurely worked. Designate an erosion control inspector for the construction site. The Certified Erosion and Sediment Control Lead (CESCL) or inspector must have the skills to assess site conditions and construction activities that could impact the quality of stormwater discharges and the effectiveness of erosion and sediment control measures used to control them. The erosion control inspector must be on the site or on-call 24 hours a day.

Applicable erosion and sediment control measures (check all that will be used):

- Certified Erosion & Sediment Control Lead (C160) Name: _____
- Non-CESCL designated inspector Name: _____

M. Protect Low Impact Development Practices

Requirement: Protect the proposed permanent Low Impact Development (LID) practices and areas (identified in Section 2) from compaction and damage from erosion and sediment during construction.

Applicable erosion and sediment control measures (check all that will be used):

- Buffer Zone (C102) High Visibility Plastic Fence (C103)
- Check Dams (C207) Triangular Silt Dike (C208)
- Brush Barrier (C231) Silt Fence (C233)
- Vegetated Strip (C234) Other _____
- Element is not applicable – please explain why _____

CONSTRUCTION EROSION AND SEDIMENT CONTROL SITE PLAN

On the next page or submitted separately, provide a drawing of the site showing the construction phase of the project to include the following items (this may be drawn by hand or drafted electronically):

- All areas to be cleared and graded, including cut and fill areas if applicable
- Boundary limits of existing trees and vegetation to be protected
- Location of all erosion and sediment control measures selected for topics A-M

CONSTRUCTION EROSION AND SEDIMENT CONTROL SITE PLAN DRAWING

