

Disclaimer: This checklist does not prevent the designer from knowing and designing to all of the relevant standards. This checklist is to be used as a guide, not a replacement for the Stormwater Design Standards or Rules and Regulations. More information can be found within the standards.

This Column For Staff	Applicant Column	
	 Legend: X = OK NA = NOT APPLICABLE	<p><u>Applicant Instructions:</u> Insert an "X" in the correct column for each applicable item submitted.</p>
		<p>Stormwater Permit Triggers</p> <p>Non-residential: 1,000 square feet of new or replaced impervious surface; or Non-residential: 500 square feet of new impervious surface within natural resource or associated buffer; or Residential: Three new lots created, or the parent parcel having the ability (area) to create three lots. Exemption requests per Rules and Regulations and Design Standards with appropriate description.</p>
		<p>STORM REPORT</p> <p>Report Includes: General</p> <p>Project Description Location of Project (Address/Parcel Number) Zoning Existing and Proposed drainage patterns and/or subbasin areas Proposed Land Use(s) / occupancy / any hazardous chemical use or storage Proposed Impervious Surfaces: types and areas of surfaces, e.g. area of vehicle maneuvering area and roof area Proposed Landscaped Surfaces: pervious areas Point(s) of discharge: directly to stream, public ROW, roadway surface, storm pipe, infiltration, other Point(s) of connection: if different from points of discharge Engineer's PE stamp and signature</p>
		<p>Report Includes: Specifically</p> <p>Stormwater Management Facility Design Calculations and/or Discussion Stormwater Conveyance Calculations and/or Discussion Source Controls Calculations and/or Discussion Erosion Prevention and Sediment Control Exhibits and/or Discussion</p>
		<p>Existing Conditions Description</p> <p>Existing Soil Conditions (based on Geotech report) Soil (Hydrologic Soil Group A, B, C or D) Groundwater information (Depth, seasonal, aquifer, etc) Infiltration rate (Infiltration Rate Testing Results, if applicable) Site topography extending 100 feet beyond the property line Describe Pre-Developed Hydrologic conditions Drainage Conditions (i.e. major drainage basins, local streams or creeks, outfalls, wetlands, groundwater) Points of Discharge (directly to stream, public ROW, roadway surface, storm pipe, infiltration, other) Offsite Drainage Natural resource, Geohazard, or Floodplain and/or associated buffers (established by Clack. Co.) Locations of known wells on or within 250 feet of property Vegetation (i.e. trees, other vegetation) Utilities onsite and access points (i.e. electric, gas, sewer, water, phone, cable) FEMA Floodplain Analysis (if applicable)</p>
		<p>Developed Site Drainage Conditions</p> <p>Describe the Stormwater Management Strategy being Implemented Emergency Overflow and connection / Point(s) of discharge (existing & proposed)</p>
		<p>Downstream Analysis</p> <p>Drainage Basin Description and Delineation Contributing Areas Description of impact to downstream conveyance systems or natural waterways post development Describe any public improvements required by the downstream analysis</p>

PLANS

All plans shall have the following:

Cover sheet with:

Clackamas County Planning File Number (e.g. Z#### or SC####)

Project Engineer's Name, Address, Phone Number

Applicant's Name, Address, Phone Number

Owner's Name, Address, Phone Number

Revision number

Plot date

Table of Contents

Vicinity Map

Map Scale

North Arrow

Engineer PE stamp and signature

Basin Map/Post-Developed Conditions Including

Project Boundaries

Offsite Contributing Basins

Onsite Drainage Basins (also known as "microbasins")

Approx. Locations of all Major Drainage Structures

Course of Stormwater from onsite to receiving body of water

Reference to the source of the topographic base map (e.g. USGS)

Points of connection and discharge

Emergency Overflow

APPENDICES OF STORM REPORT

Specifically Appendices should include:

Engineering Stormwater Review Checklist for Public and Private Construction this checklist with the legend completed with applicable items

Soils Report (Geotech report) with infiltration rates or tests, groundwater

BMP Sizing Tool Summary

On-site Hydraulic Design Computations

Basin map (showing proposed impervious area(s) & pervious areas in square feet)

Runoff Calculations

Conveyance System Capacity Calculations

Downstream Analysis Hydraulic Design Computations

Runoff Calculations (Pre-development vs Post-development)

Conveyance System Capacity Calculations (Pre-development vs Post-development)

Curb and catch basin inlet sizing

Energy Dissipater Calculations

Operations and Maintenance Plan

Landscape Plan

Operation and Maintenance Plan – Exhibits and/or Discussion

Landslide Hazard and Erosion Risk Areas Report, if applicable

UIC Registration Form, if applicable

Calculation Guidance

Onsite Retention

2-year, 24-hour post-developed runoff rate to a ½ of the 2-year, 24-hour pre-developed discharge rate;

Onsite stormwater management using LID

minimum: the first one-half-inch of rainfall in 24 hours Max retention is 96 hours

Stormwater facilities sized using the BMP Sizing Tool

Use "Forest" for Pre-Developed Site Cover

Use correct Hydrologic Soil Group (Per NRCS report or geotechnical report)

Reference Permits (if applicable, include them)

DEQ 1200C or UIC or NPDES or other

USCOE and/or DSL

US Fish and Wildlife

Other

References to Relevant Reports

Oak Lodge References

[Oak Lodge Standards Link](#)

Document Link

[Oak Lodge Development Permit](#)

Contact: Email and Phone

Permits@O 503-654-7765
LWSD.org

Updated Dec 19, 2022