



## Engineering Department

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### **PORTLAND MINIMUM DRAINAGE REQUIREMENTS FOR DEVELOPMENT**

The City of Portland requires the following minimum drainage requirements for all new development.

- Drainage Calculations shall include the pre and post development flows for the 2, 5, 10, 25, and 100 year Storm Events. Illustrate differences between corresponding Pre and Post Development.
- If detention is required, pond must be sized to control the release of the 25 year storm event. The top of bank on the detention pond shall be designed with one (1) foot of freeboard from the maximum surface elevation of the 100 year storm event. The outlet control Structure shall be designed to control the release rate of the 2, 5, 10, and 25 year storm events to equal to or less than the corresponding pre development flow. The Outlet control structure and outlet pipe shall be able to pass the 100 year storm event. An emergency Spillway shall be constructed for the release of storm events larger than the 100 year Storm.
- Drainage calculations shall verify that the first one hundred (100) feet of the drainage swale downstream of the detention pond can handle the 25 year storm event.
- Storm drainage piping and swales shall designed for the 10 year storm event.