DEPARTMENT OF PUBLIC WORKS
PRE-APPROVED PLANS POLICY

Policy D-9:  STORMWATER PUMP SYSTEM REQUIREMENTS

Pump systems may be used for conveyance of stormwater flows from a project site, if no other feasible option exists. If the Public Works Department approves the use of a pump system, it shall meet the following minimum requirements:

1) The pump system must be privately owned and maintained. The pump system must have a dual pump (alternating), unless otherwise approved by the Public Works Department.

2) The pump system shall be used to convey water from one location or elevation to another within the project site, prior to gravity discharge to the public storm drainage system.

3) The pump system must be connected to a natural gas generator system, or an overflow storage area designed to hold the storm drainage from the site for a 25 year storm event. The overflow storage area shall be equipped with a drain mechanism that allows the area to be pumped when the power is restored.

4) To determine the flow to size the pump, use an approved model per the 2016 King County Surface Water Design Manual at a 15 minute time step.

5) All pumps shall be equipped with an external visual and audible alarm system.

6) The pump system shall not violate any City ordinances or codes.

7) The gravity-flow components of the drainage system to and from the pump system must be designed so that pump failure does not result in flooding of a building or emergency access, or overflow to a location other than the natural discharge point for the project site. An overflow/flooding hold-harmless agreement may be required at the discretion of Public Works.

8) The pump system shall be designed by a licensed Civil Engineer.

9) No forced main system shall be directly connected to the City’s storm conveyance. All forced main from pump systems shall connect to a CB or yard drain on site and gravity to the storm system in the right-of-way.