

WASHINGTON SUBURBAN SANITARY COMMISSION

HYDRAULIC INFORMATION SHEET

SITE UTILITY NO.: _____

200' SHEET NO.: _____

PART 1 – INFORMATION PROVIDED BY THE APPLICANT

LOCATION OF WORK

The information provided by the WSSC represents the normal operating conditions expected in the water system. A specific flow and pressure are not guaranteed to be delivered.

LOT	BLOCK	SUBDIVISION	TOWN		NAME PRINTED	DATE
BUILDING ADDRESS (HOUSE NO., STREET NAME)			NO. OF STORIES	ZIP		
TYPE STRUCTURE (STORE, DWELLING, ETC.)		SPECIFIC USE	COUNTY	NAME OF COMPANY		PHONE
			<input type="checkbox"/> PG <input type="checkbox"/> MONT.	ADDRESS OF COMPANY		

INVERT ELEVATION OF WSSC MAIN* _____ ft.
 FIRST FLOOR ELEVATION _____ ft.
 TOP FLOOR ELEVATION _____ ft.

DOMESTIC FLOW

PEAK FLOW _____ gpm

FIRE SPRINKLER SYSTEM

REQUIRED FLOW _____ gpm
 ELEVATION OF HIGHEST SPRINKLER HEAD _____ ft.

SITE UTILITY FIRE HYDRANT SYSTEM

REQUIRED FLOW AT LAST FIRE HYDRANT _____ gpm
 ELEVATION OF LAST FIRE HYDRANT _____ ft.
 REQUIRED FLOW AT ADJACENT FIRE HYDRANT _____ gpm
 ELEVATION OF ADJACENT FIRE HYDRANT _____ ft.

FIRE STANDPIPE SYSTEM

REQUIRED FLOW _____ gpm
 ELEVATION OF TOP OUTLET _____ ft.

PART 2 – INFORMATION PROVIDED BY WSSC**

LOW DOMESTIC PRESSURE* _____ psi
 HIGH PRESSURE* _____ psi
 LOW PRESSURE WITH FIRE FLOW OF 1500-GPM* _____ psi
 LOW PRESSURE WITH THE REQUESTED SPRINKLER FLOW* _____ psi
 LOW PRESSURE WITH THE REQUESTED FIRE STANDPIPE FLOW* _____ psi

*AT THE POINT OF CONNECTION

****EXPIRES WITH THE ASSOCIATED SITE UTILITY PLAN (3 YEARS FROM SITE UTILITY APPROVAL DATE)**

THIS COMPLETED DOCUMENT SHALL BE DELIVERED TO THE APPROPRIATE COUNTY BUILDING OFFICIAL IN CONJUNCTION WITH THE BUILDING PERMIT APPLICATION.

INSTRUCTIONS

A properly prepared Hydraulic Information Sheet (HIS) must be submitted to the WSSC before the issuance of a plumbing permit for all site utility or minor site utility service applications. A HIS may be requested by WSSC prior to the issuance of other permits or services. Blank HIS's may be obtained from the Permit Services Unit of the WSSC.

The HIS is divided into two parts. Part I contains the information to be provided by the applicant and used by the WSSC. The information required on Part I should be developed as follows:

1. Domestic peak flow shall be based on a fixture unit count (such as the Hunter Method).
2. Elevation shall be expressed in feet above mean sea level.
3. For fire hydrant elevation, use top of frost casing or ground elevation at the fire hydrant.
4. Write "NONE" for "REQUIRED FLOW" if a particular type system will not be used.
5. If the HIS is for an addition to an existing site utility, all flows shall represent the new total for the site utility.

The information contained on Part II of the HIS is established by the WSSC after reviewing Part I. The information provided on Part II is intended to be used as follows:

1. The "LOW DOMESTIC PRESSURE" is the lowest pressure expected in the WSSC main at the point of connection under non-fire flow conditions. This pressure should be used for the sizing of plumbing components with regard to pressure loss.
2. The "HIGH PRESSURE" is the highest pressure expected in the WSSC main at the point of connection. This pressure should be used for the design of plumbing components with regard to strength of materials and blocking.
3. The "LOW DOMESTIC PRESSURE" and the "LOW PRESSURE WITH FIRE FLOW OF 1500 gpm" are intended for use by the parties involved in design of fire protection systems. Using these two pressures, a graph of the flow vs. pressure for the point of connection may be constructed. The "LOW DOMESTIC PRESSURE" may be considered the low pressure at zero flow or a static condition. This point is plotted on hydraulic exponential grid ($n=1.85$) graph paper. The "LOW PRESSURE WITH FIRE FLOW OF 1500 gpm" is also plotted and a straight line is drawn between the two points. The pressure, for any flow less than 1500 gpm is required, or a pressure less than 20 psi results, then a new HIS should be submitted stating the required flow in the appropriate space in Part I.
4. The "LOW PRESSURE WITH THE REQUESTED SPRINKLER FLOW" is a point taken off the graph constructed as explained in (3). The formula used is:
[$\{(\text{Sprinkler Flow} / \text{Fire Flow})^{1.85}\} * (\text{Low Domestic Pressure} - \text{Low Pressure @ connection with Fire Flow})$].

NOTE: The information on this form shall be provided by the owner to all interested parties involved in the design and construction of the subject building(s). This information will NOT be provided to individual design companies by the WSSC.