



CITY OF POQUOSON

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Engineering Department

ENGINEERING DESIGN MEMORANDUM

April 5, 2000

TO: Design Professionals
FROM: Director of Engineering and Utilities *JB*
SUBJECT: Design Storms Used for Development Within the City

24 Hour Design Rainfall Depths for projects within the City of Poquoson shall be as follows:

1 Year	3.0 Inches
2 Year	3.7 Inches
5 Year	4.8 Inches
10 Year	6.0 Inches
25 Year	6.6 Inches
50 Year	7.4 Inches
100 Year	8.2 Inches

Rainfall Intensity used for Design shall be taken from the Norfolk I-D-F Curve

Tidal Elevations provided by the U.S. Army Corps of Engineers from a FEMA Study indicate that the following Tidal elevations shall be used based on NGVD 1929:

1 Year	3 Feet 9 Inches
2 Year	4 Feet 4 Inches
5 Year	5 Feet 1 Inch
10 Year	5 Feet 8 Inches

Storm Water Calculation Design Storms for projects developed within the City of Poquoson shall be as provided below.

Designs shall pass both of the following two storms without surcharging within the storm drain system:

- 10 Year Rainfall Event with a 2 Foot Tide Event
- 2 Year Rainfall Event with a 2 Year Tide Event

Designs shall be modeled to determine the effects of each of the following storms:

- 25 Year Rainfall Event with a 2 Foot Tide Event
- 100 Year Rainfall Event with a 2 Foot Tide Event
- 10 Year Rainfall Event with a 10 Year Tide Event

Flow in Oxford Run shall be considered to be 510 CFS for storm water calculations.