



CITY OF POQUOSON

Engineering

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2024

TO: Design Professionals

FROM: City Engineer *SRC*

SUBJECT: Design Storms Used for Development Within the City of Poquoson

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:	6.9 Inches
50 Year:	8.1 Inches
100 Year:	9.4 Inches

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

Tidal Elevations below shall be used:

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

Storm Water Design Calculations 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

The Flow Rate in Oxford Run shall be considered 550 CFS for stormwater calculations.