it will overloadi he found Following down the Tuscarawas Trunk in the same that the addition wil not be effective to cause manner

accept 0400000 Beyond further apparent this, however, there was from other districts. drainage the north end can conclusion is rever, there would have to be compensating dethat the North End Trunk, be readily that the contemplated served by existing severage. a End Trunk, itself, can extension of city

North End Trunk lies in the occurence of surplus chosen arbitrarily established from judgement as where the discrepancy between theoretical demand sizes available yields a variable surplus. This characteristic of the upper end of all the trunk offers a felt. factor of safety where the effect of that the sumiler the capacity in minima. sewers and and commercial element Sewage Wave

intervals i for the three major trunks as determined Trunk at Charles Street as zero. with the concentration

Sippo Trunk 49.1 minutes North End Trunk 66.4 minutes Wooster Trunk 68.7 minutes

and not to the extensions in this report. With these is included, the differences would be somewhat more marked. These intervals apply to the sewer to the extensions in this report. the sewers of original designs report. With these latter designs

These time intervals signify that a wave from Wooster Trunk reaches Charles Street (the 48-inch Sewer size) about 20 minutes later than one from the Sippo Trunk. Inasmuch as the sewage flow varies with the hour of the day, this time difference results in a lag between maxima from the various branches. In other words, whereas the sewer sizes are determined upon the assumption that the peak discharge of one subarea is added to that from a second district, such simultaneity does not, in fact, occur except where the time of travel is similar in both branches.

the OF taken during capacity compensation Sewage designs. overload 13 his investigation of concentration periods was undering the design of the Tuscarawas Trunk to ascertain
ble reduction is size. It was concluded that any
ion was less than the probable error in the estimate
quantities. However, this factor is one of reserve
in the larger sizes as are certain other elements of 0 This statement is not severs. to be construed as justify-