



**ORLAND  
PARK**

# 2019 Watershed Management Ordinance (WMO) Amendment

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## 2019 WMO AMENDMENT

- WMO Amendment adopted by MWRD board on May 16, 2019
- Key highlights include the use of new Bulletin 70 rainfall data and watershed-specific release rates for stormwater detention requirements
- Applies to development permit applications starting January 1, 2020

## BULLETIN 70 RAINFALL DATA

- For the last 30 years, the design of stormwater management facilities has been based on the Illinois State Water Survey (ISWS) Bulletin 70, which was originally released in 1989
- In March 2019, the Illinois State Water Survey (ISWS) released a new version of Bulletin 70 that accounts for the last 30 years of rainfall data

- Design rainfall depths have increased, with the 100-year, 24-hour rainfall depth increased by approximately one inch (7.58 inches vs. 8.57 inches of precipitation)

## WATERSHED-SPECIFIC RELEASE RATES

- Allowable release rates for stormwater detention sizing will be based on watershed-specific release rates. The current WMO release rate is 0.30 cfs/acre
- Based on a study of future development in Cook County, watershed-specific release rates have been adopted for the individual watersheds
- The Village of Orland Park is located almost entirely within the Cal-Sag Channel Watershed, which has been prescribed a watershed-specific release rate of 0.30 cfs. This maintains the allowable release rate for stormwater detention facilities

## WHAT DOES THIS MEAN FOR ORLAND PARK?

- Stormwater conveyance systems (storm sewers and overland flow routes) for new development will have to be upsized based on the higher rainfall depths
- The Village has a more restrictive allowable release rate for stormwater detention requirements (0.15 cfs/acre). The adoption of the higher rainfall depths will increase the required stormwater detention volume for new development by approximately 20%
- Retrofits to stormwater management system components may be necessary for new development on previously permitted sites

