

Stonesthrow Drive Analysis

City of Wildwood, MO

Stonesthrow Drive is a proposed large-lot development in the City of Wildwood, Missouri. Concerned with pavement drainage from the proposed development, the City hired Intuition & Logic to analyze existing site conditions and development plans.



Intuition & Logic conducted a hydrologic analysis of the drainage areas contributing to runoff along Stonesthrow Drive to determine the flow rates for various storm frequencies. Using Manning's equation, the flows determined in the hydrologic analysis were used in the hydraulic analysis to determine flow depths, velocity and shear. This information provided an indication of erosion potential for each flow and which techniques would be most appropriate to control erosion. An alternatives analysis was completed to determine which management strategy was the preferred option, based on construction price, effectiveness and life-cycle cost.