

# ALABAMA

## DEPARTMENT OF TRANSPORTATION

### GUIDELINES FOR OPERATION

#### **SUBJECT: POST-DEVELOPMENT STORMWATER RUNOFF MANAGEMENT**

The following guidelines should be followed during drainage design on all ALDOT projects requiring new development and re-development let to contract after April 1, 2015.

Designers must provide features and practices that cause post-development hydrology to mimic pre-development hydrology of the site to the maximum extent practicable, working within the constraints of the project, at all locations of discharge. The basis for design to meet this requirement shall be small, frequent rain events up to and including the 95<sup>th</sup> percentile rain event for the site.

While working toward this design goal, initial consideration should be the use of decentralized practices and features near the source of the runoff. Design elements that utilize natural materials and processes will be considered whenever possible.

- Small, frequent rain events are those storm events with rainfall depths up to and including the 95<sup>th</sup> percentile event for a specific county.
- Pre-development and Post-development hydrology include both peak discharge and runoff volume.
- Pre-development hydrology is the existing hydrological condition of the site just prior to construction of the planned development or re-development.
- New Development describes the creation of a new transportation facility or a new support facility that causes a ground disturbance of greater than one acre.
- Re-Development with respect to transportation facilities describes non-maintenance work performed to or on an existing transportation facility that provides for an increased number of thru lanes of travel, and causes a ground disturbance of greater than one acre. Work on an existing road that does not result in an additional thru lane does not constitute re-development.
- Re-Development with respect to support facilities describes non-maintenance work performed to or on an existing support facility that causes a ground disturbance of more than one acre.

The Chief Engineer may approve exceptions to this policy so long as downstream property will not be significantly impacted, and the bed and bank structure of receiving stream channels will not be significantly degraded by the increased stormwater discharge. Justification for an exception will be described and quantified in a written request to the Chief Engineer, including a description of the analysis and conclusions regarding downstream impacts.

RECOMMENDED FOR APPROVAL: William J. Glauz  
STATE DESIGN ENGINEER

APPROVAL: Ronald G. Baldwin  
CHIEF ENGINEER

APPROVAL: John R. Cooper      11/24/14  
TRANSPORTATION DIRECTOR      DATE