



## Use of Digital Terrain Modeling

KASL engineers utilize digital terrain modeling (DTM) computer applications for large and small projects to:

- design finished grade surfaces
- create cut/fill diagrams
- accurately estimate earthwork quantities
- adjust grades to minimize earthwork
- establish positive drainage patterns
- create 3-D images to assist with visualization of the finished ground surface

## Stormwater Drainage Studies and Design

KASL engineers utilize various computer applications to:

- model pre- and post- storm water conditions for your project site
- define 100-year flood plain limits
- size and design stormwater detention or retention basins
- size and design stormwater conveyance systems
- design stormwater inlet and outlet structures

## Stormwater Management Low-Impact Design

KASL has extensive experience with low-impact design features for on-site storm water management including:

- bio-swales
- bio-filtration
- mechanical filtration
- pervious concrete and pavers
- subsurface infiltration trenches and dry wells
- rainwater harvesting

