

## WHY LID ?

### LID is simple and effective.

The result is a hydrologically functional landscape that generates less surface runoff, less pollution, less erosion, and less overall damage to lakes, streams, and coastal waters.

### LID is economical.

If designed correctly it can cost less than conventional stormwater management systems to construct and maintain.

### LID is flexible.

It offers a wide variety of structural and non-structural techniques to provide for both runoff quality and quantity benefits.

### LID is practical.

It reduces the need for large, unsightly land consuming detention basins.

## Instructors

### Scott Horsley

Scott Horsley has 25 years experience in site and land use planning. He has been an innovator in the development of Smart Growth and LID techniques. He has served as a consultant to the U.S. Environmental Protection Agency, the Inter-American Development Bank, the States of Hawaii and Massachusetts, and numerous local governments and private organizations throughout the United States and abroad. He is coauthor of the Massachusetts Smart Growth Toolkit, and is an instructor for an LID certification course.

### Richard Claytor, P.E.

Rich Claytor is a Professional Engineer with more than 24 years of practical experience in civil engineering planning and design, construction administration, and LID design. He has authored a variety of publications on stormwater design and implementation, including one of the first LID design manuals. He has presented at more than 100 training workshops and conferences. Rich coauthored the model LID bylaw in the Smart Growth Toolkit and works with numerous clients integrating LID into site design.

Horsley Witten Group  
90 Route 6A  
Sandwich, MA 02563

FIRST-CLASS  
U.S. POSTAGE  
PAID  
SANDWICH, MA  
PERMIT NO. 7

## Where and When?

**Georgetown, MA**      **September 19**  
The Georgetown Club, 258 Andover Street

**Plymouth, MA**      **September 26**  
The Pinehills, The Summer House

**Providence, RI**      **October 3**  
Providence Biltmore, 11 Dorrance Street

Sponsored by:

**Horsley Witten Group**  
Sustainable Environmental Solutions  
(508) 833-6600  
[www.horsleywitten.com](http://www.horsleywitten.com)

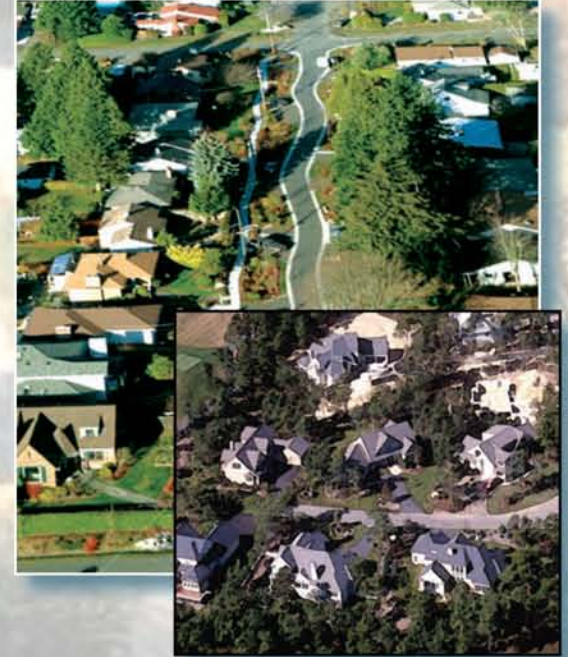


Offices  
Sandwich • Newburyport • Providence

# LID

## Low Impact Development

## WORKSHOP FOR DEVELOPERS, DESIGNERS & REGULATORS



An alternative approach to  
site design.

## Why Attend This Workshop?

Low-impact development (LID) is an alternative approach to site design that is natural resource based and incorporates a wide variety of low-cost structural and non-structural techniques. LID is a hot topic with state and local permitting agencies throughout the nation. Local zoning laws are being revised to incorporate smart growth and LID provisions. Conventional development using standard engineering practices commonly is a lengthy, time-consuming permitting process that results in sprawl, with environmental impacts and a reduction in real estate values.

This hands-on, practical short course covers land planning principles, design criteria, permitting strategies and uses real case studies. You will learn how to:

- Increase real estate values;
- Reduce construction and maintenance costs; and
- Reduce permitting time.

## Some LID Techniques



**Bioretention**

Vegetated areas that collect, treat, and infiltrate rainwater.

Shallow drainage channels that slow runoff and filter it.



**Vegetated Swales**



**Cisterns and Rain Barrels**

Tanks and underground containers that store rainwater for landscaping.

Paving surfaces that allow rainwater to percolate into the ground (year-round).



**Permeable Paving**



**Low-Impact Roadways**

Narrow roadways and cul-de-sac alternatives that reduce runoff.

Clustered development with open space.



**Open Space Residential Design**

## Agenda

8:30	Registration
9:00	Overview of Course / Introduction
9:30	The Context for LID - Smart Growth: Better Site Planning
10:15	Break
10:30	LID Techniques: Bioretention Cisterns / Rain Barrels Low-Impact Roadways Open Space Residential Design Permeable Paving Vegetated Swales
12:00	Lunch
1:00	Local Case Studies
2:00	Implementing LID • common misconceptions • making it work
3:00	Permitting Strategies
4:00	Wrap Up - Additional Q&A

## Register

To register go to: [www.horsleywitten.com/lidregister](http://www.horsleywitten.com/lidregister)

private..... \$250

government official ..... \$150

Early registration discount available.