

## WHAT IS LID?

Low impact development, or LID, is a stormwater management approach with the goal to mimic natural processes. Sensitive site design and the use of best management practices manage stormwater runoff close to its source. LID techniques infiltrate, filter, store, evaporate, and detain runoff. The impact of urbanization with increased impervious surfaces and large volumes of polluted runoff is therefore mitigated. LID helps to restore and/or maintain healthy water bodies and ground water levels.

## WHAT ARE STORMWATER BMPS?

Stormwater Best Management Practices (BMPs) are methods, measures, or practices used to manage the quantity and quality of urban runoff. They include management practices (such as nutrient management) or structural practices (such as rain gardens) designed to reduce runoff volume and to remove pollutants – sediment, nitrogen, phosphorous, and heavy metals – that are washed by rain and snow melt into nearby waters.

Examples of BMPs suitable for residential properties are green roofs, downspouts connected to rain barrels or cisterns, raingardens to collect roof runoff, and permeable pavement for driveways.

## WHO MAINTAINS STORMWATER BMPS?

Maintaining BMPs is a joint effort between the members of the community and the City of Boston. The City relies on local businesses and residents to help with routine maintenance such as trash removal and visual inspections after heavy rain. Non-routine or specialized maintenance, such as mulch replacement and repairs, are performed by City departments. Problems or damage should be reported immediately to the City. A schedule outlining the breakdown of responsibilities is included in this brochure.

## PEABODY SQUARE

The reconstruction of Peabody Square is the first Green Street project in Boston. Green Streets are one of the LID techniques that improve stormwater management. The implementation of raingardens and permeable pavement improves the square aesthetically and at the same time collects and treats stormwater runoff.

The project integrates planning, design, development and education about low impact designs and innovative stormwater retrofits across agencies.



*Peabody Square: Image showing planned permeable pavers.*

## CONTACT INFORMATION:

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## PEABODY SQUARE, BOSTON, MA

# Low Impact Development (LID) Stormwater Best Management Practices (BMPs): *Community Maintenance Guide*



*Peabody Square: Image showing planned rain garden*



Charles River Watershed Association

## RAIN GARDENS



Rain gardens are landscaped areas that collect and treat stormwater runoff using bioretention.

## PERMEABLE PAVERS



Paving blocks laid across a surface with spaces in between allow water to filter into the ground.

## STORMWATER PLANTERS



Stormwater planters are contained vegetated areas that collect and treat stormwater.

## PERMEABLE PAVEMENT



Permeable pavement allows rain and snow melt to infiltrate through, to be filtered into the ground.

## STORMWATER TREE PITS



Tree pits consist of an underground structure which collects and treats stormwater.

Things you and your community can do to help reduce pollution in stormwater runoff:

- Clean after your pets
- Don't dump into stormwater drains
- Reduce use of fertilizer and pesticides
- Compost/recycle yard waste,
- Don't wash cars on streets/driveway
- Use low impact snow removal salt

## MAINTENANCE SCHEDULE

Type of BMP	Maintenance Activity	Community	City of Boston
Rain Garden, Stormwater Planter, Stormwater Tree Pit	Remove trash, debris and sediment monthly and after heavy rains	X	
	Inspect plants and report weeds, invasive species, compromised plants monthly	X	
	Inspect drainage, check for sediments and eroded areas and report problems monthly and after heavy rains	X	
	Water plants	X (drought)	X (regular park schedule)
	Prune & weed twice during growing season		X
	Remove and reapply mulch annually in spring		X
Permeable Pavers, Permeable Pavement	Inspect and repair structural components twice a year		X
	Inspect drainage twice per year and after heavy rains	X (after heavy rains)	X
	Inspect for sediment build-up twice a year, and vacuum clean/powerwash if necessary (for pavers: replace joint material afterwards)		X
	For pavers: periodic weeding during growing season	X	
	Snow removal	X (adjacent to property)	X (public sidewalks and plazas)
	Infiltration rate test twice a year		X