

Minimized Impervious Area

Non-Structural Stormwater BMPs

This factsheet is part of our non-structural stormwater BMP series. To access this series and many other educational resources, please visit: spcwater.org.

Reducing Street Imperviousness (RSI) and **Reducing Parking Imperviousness (RPI)** are two **non-structural best management practices (BMPs)** that can be highly effective for stormwater management when incorporated into site design and development. RSI includes minimizing street widths and lengths; RPI includes reducing the impervious area associated with parking through practices such as designating overflow parking on an area that is pervious. Specific stormwater management functions of reducing impervious cover include runoff volume reduction, peak rate control, groundwater recharge, and improved water quality.



Photo Source: 2013 Louis Cook for Philadelphia Water Dept.

Reducing the impervious area associated with streets and parking can be done through a variety of innovative ways such as installing curb bump-outs (above) or using permeable pavers for parking areas.

Key Considerations for Reducing Street and Parking Imperviousness

- RSI can be achieved through alternative street layouts, on-street parking restrictions, minimizing radii of cul-de-sacs, and using permeable pavers
- Consult local fire code standards, construction codes, and ADA requirements
- Preventative stormwater management
- RPI can be achieved through narrowing traffic lanes, using slanted parking stalls, and utilizing pervious materials in the primary and/or overflow parking areas
- Reduction in paved area can significantly reduce costs
- RSI and RPI are components of Low Impact Development

BMP Profile

Name:

Reduce Street Imperviousness and Reduce Parking Imperviousness

Type:

Non-Structural

Grouping:

Reduce Impervious Cover

Stormwater

Management Benefits:

- Peak Rate Control
- Groundwater Recharge
- Volume Reduction
- Water Quality

Potential Applications:

- Residential
- Commercial
- Industrial



**For more information
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