

LID Site Planning and Design Techniques

The remainder of this chapter focuses on non-structural LID site planning and design techniques, which should be applied to the MEA (see Standard 1 in [Chapter 4 - Stormwater Management Standards and Performance Criteria](#)) prior to consideration of structural stormwater BMPs. Once LID site planning and design techniques have been considered and applied appropriately, structural stormwater BMPs should be used to manage the remaining required post-development stormwater runoff volume (see [Chapter 13 - Structural Stormwater BMP Design Guidance](#) and other sections of this Manual).

[Table 5- 1](#) summarizes and categorizes LID site planning and design techniques according to the three broad objectives described previously – avoiding, reducing, and managing impacts. The following sections describe each technique. Applications of these techniques and related LID site planning and design credits are described in later sections of this chapter.

Table 5- 1 LID Site Planning and Design Techniques

LID Objective	Site Planning and Design Technique
Avoid Impacts	<ul style="list-style-type: none"> ➤ Minimizing Soil Compaction ➤ Minimizing Site Disturbance ➤ Protecting Sensitive Natural Areas ➤ Preserving Vegetated Buffers ➤ Avoiding Disturbance of Steep Slopes ➤ Siting on Permeable and Erodible Soils ➤ Protecting Natural Flow Pathways ➤ Conservation and Compact Development
Reduce Impacts	<ul style="list-style-type: none"> ➤ Reducing Impervious Surfaces <ul style="list-style-type: none"> ○ Local Roads ○ Cul-de-sacs ○ Sidewalks ○ Driveways ○ Buildings ○ Parking Lots ➤ Preserving Pre-development Time of Concentration ➤ Use of Low Maintenance Landscaping
Manage Impacts at the Source	<ul style="list-style-type: none"> ➤ Disconnecting Impervious Surfaces (DCIA reduction) <ul style="list-style-type: none"> ○ Impervious Area (Simple) Disconnection <ul style="list-style-type: none"> ▪ Building Roof Runoff ▪ Road, Driveway, and Parking Lot Runoff ▪ Stormwater Runoff from Solar Arrays ○ Disconnection Using Structural Stormwater BMPs ➤ Conversion of Impervious Areas to Pervious Areas ➤ Source Controls