

## 4.1.6 OBJECTIVE SIX

### 06 PROMOTE GREEN INFRASTRUCTURE



GREEN INFRASTRUCTURE STRATEGY

STORMWATER BMP DEMONSTRATION PARK DESIGN & CONSTRUCTION

GREEN STREETS CONCEPTUAL POLICY, DESIGN, AND PRIORITIZATION STUDY

GREEN STREETS DESIGN & CONSTRUCTION

**CREATING A NETWORK OF NATURAL AREAS AND SUSTAINABLY DESIGNED INFRASTRUCTURE SYSTEMS WILL ENHANCE THE ECOLOGICAL HEALTH AND LIVABILITY OF THE URBANIZING AREA.**

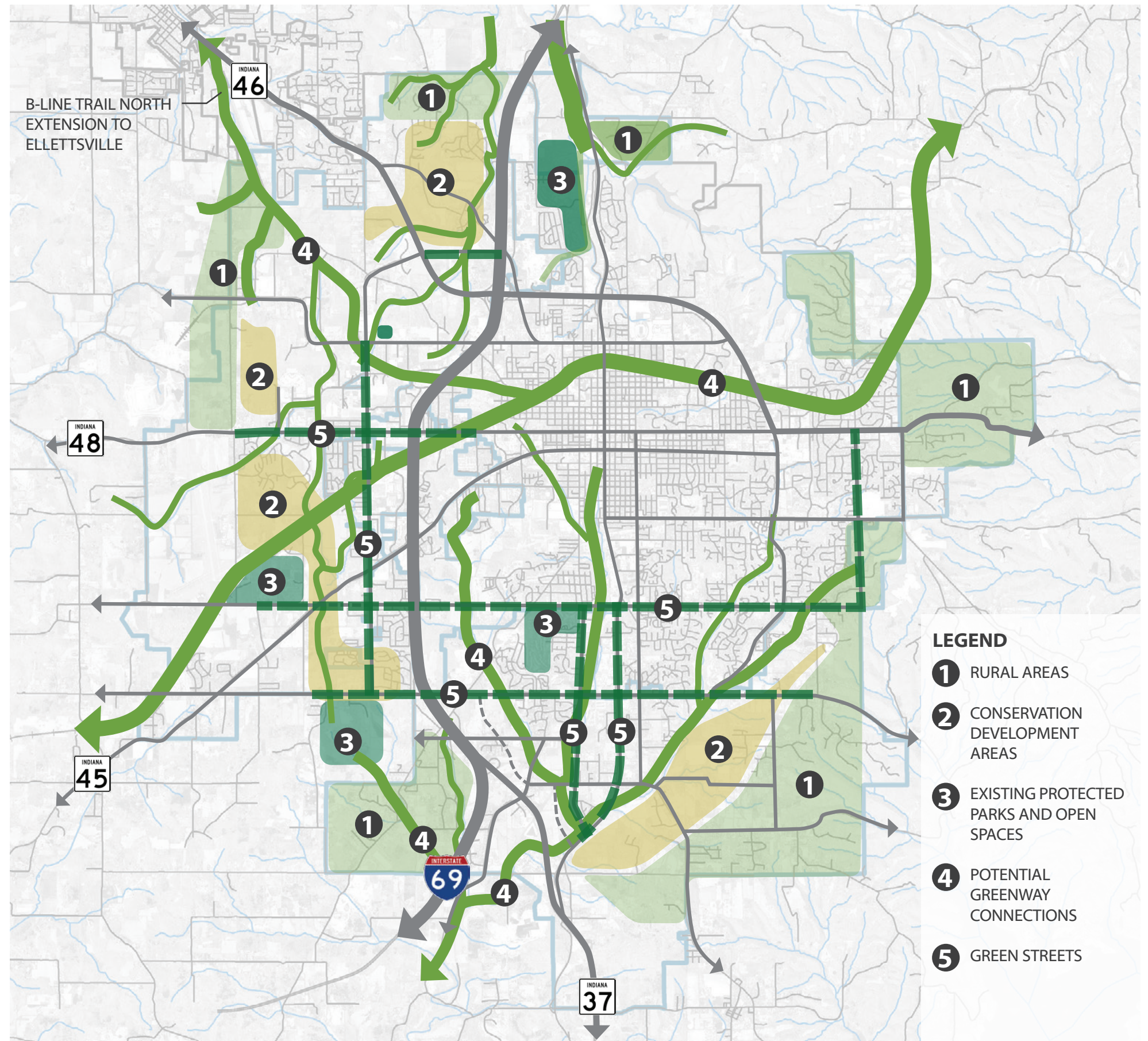
#### A. BACKGROUND

Stormwater management is a key site development consideration for new development within the urbanizing area. It is important to protect surface water quality for ecological health and diversity. Also, surface stormwater management systems help to recharge groundwater aquifers, many of which are sources of domestic potable water.

#### B. GREEN SPACE

##### GREENWAYS

Streams, riparian areas, and wetlands are important ecological areas and contribute significant character to the Urbanizing Area. In order to protect these fundamentally critical resources, development restrictions or other mechanisms should be explored.



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Specifically, riparian buffers preserve natural habitat along biodiverse corridors, and also provide an opportunity to extend multi-use paths as part of the recreation bikeway system. Streams should be buffered to preserve the 100-year floodplain, or where flood zones have not been designated, by a minimum 50-foot buffer, measured from the normal high water mark.

### C. RURAL CONSERVATION AREAS

Rural conservation areas are critical to protect the rural and natural sense of place within the Urbanizing Area. The rural character of the Urbanizing Area should be preserved wherever possible through various mechanisms.

Development should be restricted along primary rural roadways through a 200 minimum setback requirement.

Where possible, critical rural land should be preserved through development mechanisms such as a Transfer of Development Rights (TDR) or agricultural preservation easement.

TABLE 4.X: XXXXXXXXXXXX

E. IMPLEMENTATION STEPS					
STRATEGY		ACTION	CODE	TYPE	LEAD
1	FURTHER DEVELOP A GREEN INFRASTRUCTURE STRATEGY	<ul style="list-style-type: none"> <li>+ Examine current design and development standards for stormwater management, open space networks, sensitive ecological areas, and wildlife corridors and habitats.</li> <li>+ Update regulatory policies to facilitate the development of a high performance and interconnected green infrastructure system.</li> <li>+ Potentially combine this with Recreation and Parks update</li> </ul>	4.1.6.1	Public Policy	Monroe County
2	CREATE STORMWATER BMP DEMONSTRATION PARK	<ul style="list-style-type: none"> <li>+ Select sites and determine project partners</li> <li>+ Generate conceptual design</li> <li>+ Develop project scope(s) and magnitude(s) of cost</li> <li>+ Develop funding strategy and sources</li> <li>+ Develop schematic design through final design</li> <li>+ Select contractor and proceed with construction</li> </ul>	4.1.6.2	Public Parks Infrastructure	Monroe County
3	STUDY GREEN STREETS CONCEPTUAL POLICY, DESIGN, AND PRIORITIZATION	<ul style="list-style-type: none"> <li>+ Generate conceptual design</li> <li>+ Develop project scope and magnitude(s) of cost</li> <li>+ Develop funding strategy or agreement</li> <li>+ Determine potential funding sources</li> <li>+ Potential to combine projects with 'Complete Streets' referenced above</li> </ul>	4.1.6.3	Public Parks Infrastructure	Monroe County
4	DESIGN AND CONSTRUCT GREEN STREETS	<ul style="list-style-type: none"> <li>+ Develop schematic design through final design</li> <li>+ Finalize project scope(s) and magnitude(s) of cost</li> <li>+ Prioritize projects for construction</li> <li>+ Select contractor and proceed with construction</li> </ul>	4.1.6.4	Arts Program	Public/Private Partnership

### D. GREEN STREETS

Green streets seamlessly incorporate sustainable design and stormwater best management practices (BMP's) into the design of streets with various scales and functions. This often simultaneously creates more comfortable and attractive human spaces and better supports urban ecological systems.

#### STORMWATER MANAGEMENT

Stormwater management should be incorporated into key streets through strategic retrofits with surface stormwater planters, bioswales, rain gardens or other BMP's.

#### ECOLOGICAL SUPPORT

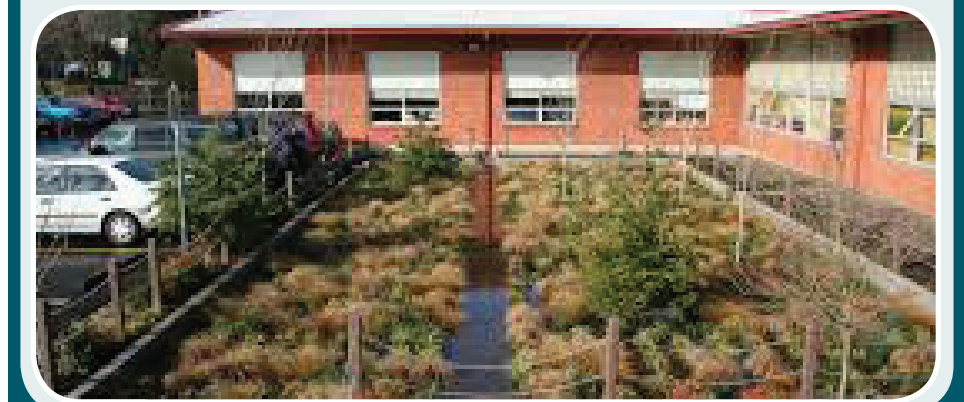
Streets are capable of providing significant habitat through the use of native or adapted street trees and ground level plantings. These support native wildlife and provide shade, color, texture and other experiential benefits to commercial corridors and neighborhoods.

## CREATE A STORMWATER BMP DEMONSTRATION PARK



Stormwater Best Management Practices are critical in constructed environments to filter and manage stormwater runoff within developed areas. Examples include green streets, bioswales, pervious pavements, rain gardens, large constructed wetlands, and green roofs. There are many functional benefits to these techniques including reduction of erosion, thermal and chemical pollution, loss of habitat and wildlife, etc.

A demonstration park should be constructed using these techniques in order to clearly make the point that BMP's can be built in many shapes, sizes, and design aesthetics while being beautiful, effective, and economical.



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