

# 2.0 : Cycles Unlimited—one local effort

## 2.1 : the idea

Cycles Unlimited is a local bicycle retailer that had the need to expand into a larger space. They saw this as an opportunity to create an entirely new environmentally friendly and sustainable structure using the LEED system, as it was an idea that was not being implemented in the local retail market. Through research and discussions with LEED members, Cycles knew that a building of this type would not carry any additional cost over a building constructed using standard methods. After jumping more than a few obstacles, as most pioneers will have to do, the structure was ready to build.

## 2.2 : the scorecard

This scorecard is used in new construction following the LEED system. Outlined below are the areas that have available points and in which areas the new Cycles Unlimited building will attempt to gain these points. The ● symbol represents an area that will be achieved and the ● symbol represents an area that is pending review upon completion. Also, highlighted points are further discussed on accompanying boards as listed.

### sustainable sites

- Construction Activity Pollution Prevention see 2.3
  - Site Selection
  - Development Density & Community Connectivity
  - Brownfield Redevelopment
- Alternative Transportation: Public Transportation Access see 2.3
- Alternative Transportation: Bicycle Storage & Changing Rooms see 2.3
  - Alternative Transportation: Low Emitting & Fuel Efficient Vehicles
- Alternative Transportation: Parking Capacity see 2.3
- Site Development: Protect or Restore Habitat see 2.3
- Site Development: Maximize Open Space see 2.3
- Storm water Design: Quantity Control see 2.3
- Storm water Design: Quality Control
- Heat Island Effect: Non-Roof see 2.3
- Heat Island Effect: Roof see 2.4
- Light Pollution Reduction see 2.3

### water efficiency

- Water Efficient Landscaping: Reduce by 50% see 2.3
- Water Efficient Landscaping: No Potable Water Use or No Irrigation
- Innovative Wastewater Technologies see 2.5
- Water Use Reduction: 20% Reduction
- Water Use Reduction: 30% Reduction

### energy and atmosphere

- Fundamental Commissioning of the Building Energy Systems
- Minimum Energy Performance see 2.5
- Fundamental Refrigerant Management
- Optimize Energy Performance see 2.5
- On-Site Renewable Energy
- Enhanced Commissioning
  - Enhanced Refrigerant Management
- Measurement & Verification
- Green Power

### materials and resources

- Storage & Collection of Recyclables
  - Building Reuse: Maintain 75% of Existing Walls, Floors & Roof
  - Building Reuse: Maintain 95% of Existing Walls, Floors & Roof
  - Building Reuse: Maintain 50% of Interior Non-Structural Elements
- Construction Waste Management: Divert 50% From Disposal
- Construction Waste Management: Divert 75% From Disposal
- Materials Reuse: 5%
- Materials Reuse: 10%
- Recycled Content: 10% (post-consumer + 1/2 pre-consumer)
- Recycled Content: 20% (post-consumer + 1/2 pre-consumer)
- Regional Materials: 10% Extracted, Processed & Manufactured Regionally
- Regional Materials: 20% Extracted, Processed & Manufactured Regionally
- Rapidly Renewable Materials
- Certified Wood see 2.5

### indoor environmental quality

- Minimum IAQ Performance
- Environmental Tobacco Smoke (ETS) Control see 2.5
- Outdoor Air Delivery Monitoring see 2.5
- Increased Ventilation see 2.5
- Construction IAQ Management Plan: During Construction
- Construction IAQ Management Plan: Before Occupancy
- Low-Emitting Materials: Adhesives & Sealants see 2.5
- Low-Emitting Materials: Paints & Coatings see 2.5
- Low-Emitting Materials: Carpet Systems see 2.5
- Low-Emitting Materials: Composite Wood & Agrifiber Products see 2.5
- Indoor Chemical & Pollutant Source Control
- Controllability of Systems: Lighting see 2.5
- Controllability of Systems: Thermal Comfort see 2.5
- Thermal Comfort: Design
- Thermal Comfort: Verification
- Daylight & Views: Daylight 75% of Spaces see 2.4
- Daylight & Views: Views for 90% of Spaces see 2.4

### innovation and design process

- Innovation in Design
- LEED Accredited Professional