

**Purpose, Description & Considerations**

● **demonstrate and model environmentally responsible design & construction practices:**

- minimize carbon footprint in materials choice & construction
- use locally sourced & recycled materials when possible
- use non-toxic materials
- use materials that are renewable and manufactured in environmentally healthy and responsible ways
- use best practices for disposal, reuse and handling of construction waste and debris

- **model and make evident the three R's - reduce, reuse, recycle**
- **develop and make available a green practices inventory list for each schoolyard project**
- **increase green landscape**
  - introduce plants and trees into the urban landscape to provide shade, improve air quality
  - use native plants
  - provide animal habitat
- **encourage personal responsibility for environmental actions & stewardship**

- **water management**
  - provide permeable paver surfaces
  - direct run-off water in to planted zones when possible
  - use low water use plantings
- **environmental justice**

address environmental neglect of urban neighborhoods by investment in safe and healthy places to play and build community
- **use design to identify schoolyard environment as a safe and beautiful place to promote active recreation and health**

**Design Checklist (design components)**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> trees (with protection)                  | <input type="checkbox"/> minimize carbon footprint                | <input type="checkbox"/> demonstrate for students examples of green technology |
| <input type="checkbox"/> low water shrubs                         | <input type="checkbox"/> locally sourced materials                | <input type="checkbox"/> play equipment / green manufacturer                   |
| <input type="checkbox"/> storm water re-use for plant maintenance | <input type="checkbox"/> reuse materials on site                  | <input type="checkbox"/> solar powered lights                                  |
| <input type="checkbox"/> MWRA "don't dump" sign at storm drain    | <input type="checkbox"/> use of recycled materials                | <input type="checkbox"/> safety surface (recycled non-toxic material)          |
| <input type="checkbox"/> permeable pavers                         | <input type="checkbox"/> non-toxic construction materials         |  |
|   | <input type="checkbox"/> green inventory (score card) for project |  |

**Illustrations**



*use of natural boulders (locally sourced from nearby site) to separate vehicles from schoolyard play areas*

*non-toxic painted graphics*

*play equipment selected for recycled content and low carbon footprint*



*trash barrel / solar compactor*



*tree clusters to create shade*



*solar powered lights*



*permeable pavers*



*sign at storm drain*



*an inventory of green elements in SY & OC Design*