Tapping *Site Planning and Design*

Kevin S. Holden, **RLA**, **ASLA**

Landscape Architecture
Community of Practice Leader
USACE

17 June 2010

US Army Corps of Engineers
BUILDING STRONG®

Report Documentation Page

Form Approved
OMB No. 0704-0188

1. REPORT DATE	2. REPORT TYPE	3. DATES COVERED
17 JUN 2010		**00-00-2010 to 00-00-2010**

4. TITLE AND SUBTITLE	5a. CONTRACT NUMBER
Tapping Site Planning and Design	5b. GRANT NUMBER
	5c. PROGRAM ELEMENT NUMBER
6. AUTHOR(S)	5d. PROJECT NUMBER
	5e. TASK NUMBER
	5f. WORK UNIT NUMBER
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) **US Army Corps of Engineers,Community of Practice Leader for Landscape ,Rock Island,IL,61204-2004**	8. PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)	10. SPONSOR/MONITOR'S ACRONYM(S)
	11. SPONSOR/MONITOR'S REPORT NUMBER(S)

12. DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release; distribution unlimited

13. SUPPLEMENTARY NOTES
Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 14-17 June 2010 in Denver, CO.

14. ABSTRACT

15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT **unclassified**	b. ABSTRACT **unclassified**	c. THIS PAGE **unclassified**	**Same as Report (SAR)**	**40**	

Site Planning and Design

1. How is ***Site Planning and Design*** foundational to sustainable development?

2. What role does the ***Landscape Architect*** play in collaboration with the Architect, Engineer, and Master Planner?

Quantitative

LEED 2009 for New Construction and Major Renovations

100 base points

(6 possible Innovation in Design and 4 Regional Priority points)

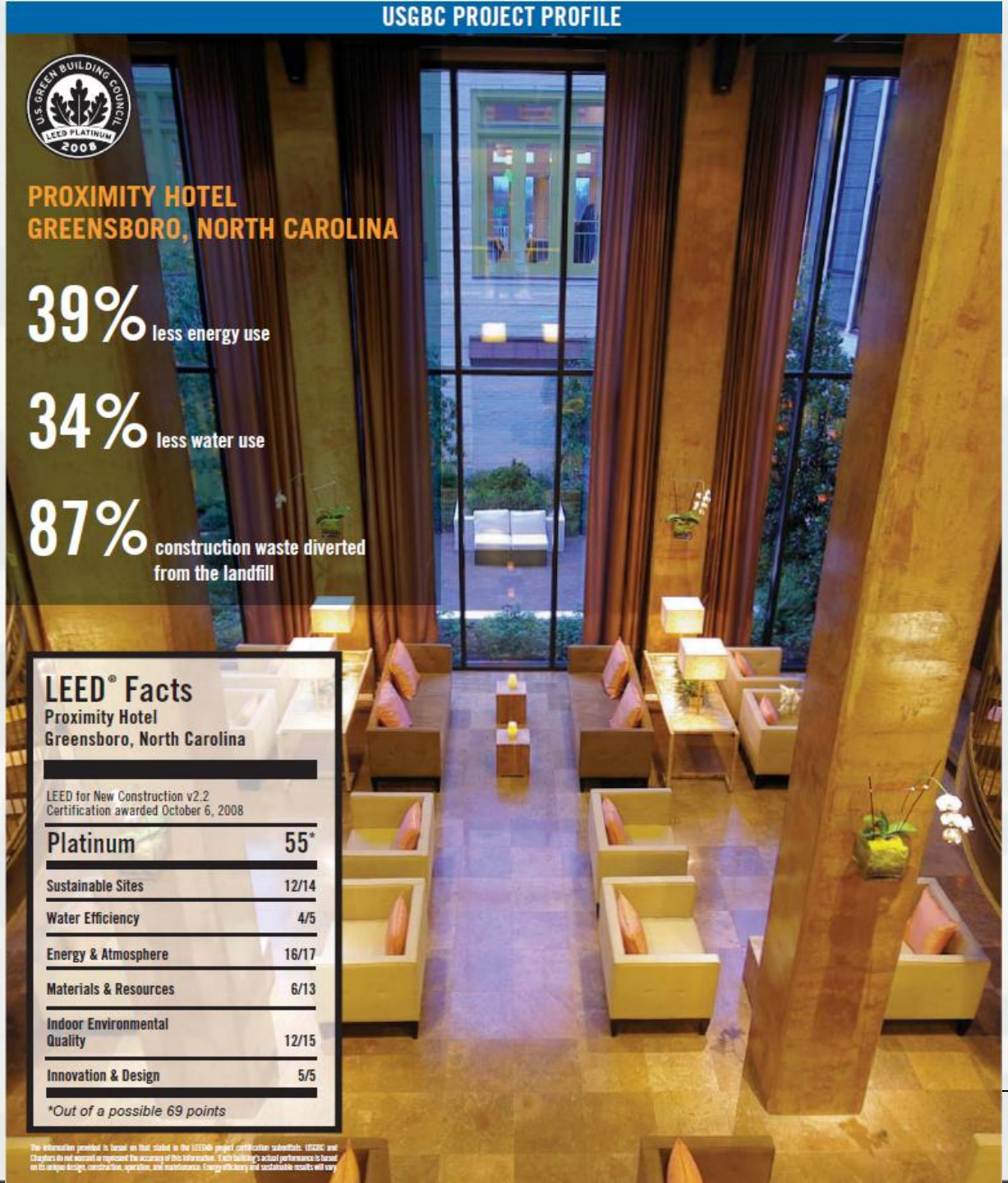
Certified: 40–49 points

Silver: 50–59 points

Gold: 60–79 points

Platinum: 80 points and above

50 possible points from The Site



Quantitative

12 of 55 points from ***sustainable sites*** Category

BUILDING STRONG®

Qualitative

Qualitative

The Landscape Architect (LA)

The Landscape Architect (LA)

Washington Mutual Center Green Roof
Seattle, Washington

Washington Mutual Center Green Roof

Seattle, Washington

Washington Mutual Center Green Roof
Seattle, Washington

Washington Mutual Center Green Roof
Seattle, Washington

Washington Mutual Center Green Roof
Seattle, Washington

Washington Mutual Center Green Roof
Seattle, Washington

Washington Mutual Center Green Roof
Seattle, Washington

Washington Mutual Center Green Roof
Seattle, Washington

NE Siskiyou Green Street
Portland, Oregon

NE Siskiyou Green Street
Portland, Oregon

NE Siskiyou Green Street
Portland, Oregon

NE Siskiyou Green Street

Portland, Oregon

NE Siskiyou Green Street

Portland, Oregon

NE Siskiyou Green Street

Portland, Oregon

NE Siskiyou Green Street
Portland, Oregon

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

The Red Ribbon, Tanghe River Park
Qinhuangdao City, Hebei Province, China

High Line Park
New York City, New York

High Line Park
New York City, New York

High Line Park
New York City, New York

High Line Park
New York City, New York

High Line Park
New York City, New York

Site Planning and Design

is foundational to

sustainable development.


REWARDS
FOR STEWARDSHIP
When we create sustainable landscapes, the landscapes give back:
Cleaner water and air
Cooler cities
Carbon capture that mitigates climate change
Resource conservation and regeneration
Greater energy efficiency
Habitat conservation and biodiversity
Lower costs and improved performance from stormwater management
Better living conditions

LEED Points

Sustainable Sites	26 Possible Points
☐ Prerequisite 1 Construction Activity Pollution Prevention	Required
☐ Credit 1 Site Selection	**1**
☐ Credit 2 Development Density and Community Connectivity	**5**
☐ Credit 3 Brownfield Redevelopment	**1**
☐ Credit 4.1 Alternative Transportation—Public Transportation Access	**6**
☐ Credit 4.2 Alternative Transportation—Bicycle Storage and Changing Rooms	**1**
☐ Credit 4.3 Alternative Transportation–Low-Emitting and Fuel-Efficient Vehicles	**3**
☐ Credit 4.4 Alternative Transportation—Parking Capacity	**2**
☐ Credit 5.1 Site Development—Protect or Restore Habitat	**1**
☐ Credit 5.2 Site Development—Maximize Open Space	**1**
☐ Credit 6.1 Stormwater Design—Quantity Control	**1**
☐ Credit 6.2 Stormwater Design—Quality Control	**1**
☐ Credit 7.1 Heat Island Effect—Non-roof	**1**
☐ Credit 7.2 Heat Island Effect—Roof	**1**
☐ Credit 8 Light Pollution Reduction	**1**

LEED Points

24 Possible Points

Water Efficiency 10	
☐ Prerequisite 1 Water Use Reduction	Required
☐ Credit 1 Water Efficient Landscaping	**2-4**
☐ Credit 2 Innovative Wastewater Technologies	**2**
☐ Credit 3 Water Use Reduction	**2-4**
Materials and Resources	
☐ Credit 3 Materials Reuse	**1-2**
☐ Credit 4 Recycled Content	**1-2**
☐ Credit 5 Regional Materials	**1-2**
☐ Credit 6 Rapidly Renewable Materials	**1**
☐ Credit 7 Certified Wood	**1**
Innovation in Design	
☐ Credit 1 Innovation in Design	**1-5**
☐ Credit 2 LEED Accredited Professional	**1**