UO Housing Central Kitchen and Woodshop

LEED 2009 for New Construction Scorecard - Schematic Design Summary (AET+LEED Gold)

6 June 2014

Available	Yes	Possible	Likely No	No			Responsibility	Comments
						SUSTAINABLE SITES		
0	X				SSp1	**Construction Activity Pollution Prevention**		
1	1				SSc1	**Site Selection**		
5	5				SSc2	**Development Density and Community Connectivity**		
1	1				SSc3	**Brownfield Redevelopment**	CC	Asbestos in existing houses; will need to document
6	6				SSc4.1	**Alternative Transportation -** Public Transportation Access		At edge of required proximity to EmX
1	1				SSc4.2	**Alternative Transportation -** Bicycle Storage and Changing Rooms		
3	3				SSc4.3	**Alternative Transportation -** Low-Emitting and Fuel-Efficient Vehicles		Potentially through bio-diesel stations
2	2				SSc4.4	**Alternative Transportation -** Parking Capacity		
1				1	SSc5.1	**Site Development** - Protect and Restore Habitat		Native/adaptive vegetation requried throughout
1	1				SSc5.2	**Site Development -** Maximize Open Space		Need 20% vegetated space inside property lines
1				1	SSc6.1	**Stormwater Design** - Quantity Control		
1	1				SSc6.2	**Stormwater Design -** Quality Control		
1				1	SSc7.1	**Heat Island Effect** - Nonroof		
1	1				SSc7.2	**Heat Island Effect** - Roof		
1		1			SSc8	**Light Pollution Reduction**		Difficult in residential neighborhood
26	22	1	0	3		Total Points for Sustainable Sites		
						WATER EFFICIENCY		
0	X				WEp1	**Water Use Reduction** - 20% Reduction		
2	2				WEc1.1	**Water Efficient Landscaping** - 50% Reduction		
2				2	WEc1.2	**Water Efficient Landscaping** - No Potable Water Use for Irrigation		
2				2	WEc2	**Innovative Wastewater Technologies**		
2	2				WEc3.1	**Water Use Reduction** - 30% Reduction		
1	1				WEc3.2	**Water Use Reduction** - 35% Reduction		Food service equipment not required to comply
1			1		WEc3.3	**Water Use Reduction** - 40% Reduction		
10	5	0	1	4		Total Points for Water Efficiency		
						ENERGY AND ATMOSPHERE		
0	X				EAp1	**Fundamental Commissioning of Building Energy Systems**		
0	X				EAp2	**Minimum Energy Performance**		
0	X				EAp3	**Fundamental Refrigerant Management**		
1	1				EAc1.1	**Optimize Energy Performance** - 12% / 8%		
1	1				EAc1.2	**Optimize Energy Performance** - 14% / 10%		
1	1				EAc1.3	**Optimize Energy Performance** - 16% / 12%		
1	1				EAc1.4	**Optimize Energy Performance** - 18% / 14%		
1	1				EAc1.5	**Optimize Energy Performance** - 20% / 16%		
1	1				EAc1.6	**Optimize Energy Performance** - 22% / 18%		
1	1				EAc1.7	**Optimize Energy Performance** - 24% / 20%		ECM Package 2: 26% energy unit savings
1	1				EAc1.8	**Optimize Energy Performance** - 26% / 22%		
1	1				EAc1.9	**Optimize Energy Performance** - 28% / 24%		
1	1				EAc1.10	**Optimize Energy Performance** - 30% / 26%		
1	1				EAc1.11	**Optimize Energy Performance** - 32% / 28%		ECM Package 3: 37% energy unit savings
1		1			EAc1.12	**Optimize Energy Performance** - 34% / 30%		
1		1			EAc1.13	**Optimize Energy Performance** - 36% / 32%		
1			1		EAc1.14	**Optimize Energy Performance** - 38% / 34%		
1			1		EAc1.15	**Optimize Energy Performance** - 40% / 36%		
1			1		EAc1.16	**Optimize Energy Performance** - 42% / 38%		
1			1		EAc1.17	**Optimize Energy Performance** - 44% / 40%		
1			1		EAc1.18	**Optimize Energy Performance** - 46% / 42%		
1			1		EAc1.19	**Optimize Energy Performance** - 48%+ / 44%+		
1		1			EAc2.1	**On-Site Renewable Energy** - 1%		
1		1			EAc2.2	**On-Site Renewable Energy** - 3%		
1		1			EAc2.3	**On-Site Renewable Energy** - 5%		
1				1	EAc2.4	**On-Site Renewable Energy** - 7%		
1				1	EAc2.5	**On-Site Renewable Energy** - 9%		
1				1	EAc2.6	**On-Site Renewable Energy** - 11%		
1				1	Eac2.7	**On-Site Renewable Energy** - 13%		
2	2				EAc3	**Enhanced Commissioning**		UO cost
2		1			EAc4	**Enhanced Refrigerant Management**		May be achieveable with walk-in heat recovery
3	3				EAc5	**Measurement and Verification**		
2			2		EAc6	**Green Power**		"Buying" a credit; cost not accounted for yet
35	16	1	7	10		Total Points for Energy and Atmosphere		

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MATERIALS AND RESOURCES

Available	Yes	Possible	Likely No	No	Code	Credit		Notes
0	X				MRp1	**Storage and Collection of Recyclables**		
1				1	MRc1.1a	**Building Reuse** - Maintain Existing Walls, Floors, Roof, 55%		
1				1	MRc1.1b	**Building Reuse** - Maintain Existing Walls, Floors, Roof, 75%		
1				1	MRc1.1c	**Building Reuse** - Maintain Existing Walls, Floors, Roof, 95%		
1				1	MRc1.2	**Building Reuse** - Maintain Interior Nonstructural Elements		
1	1				MRc2.1	**Construction Waste Management** - 50%	CC	Housing demo documentation need ed
1		1			MRc2.2	**Construction Waste Management** - 75%		Separate materials on site for higher diversion
1				1	MRc3.1	**Materials Reuse** - 5%		
1				1	MRc3.2	**Materials Reuse** - 10%		
1	1				MRc4.1	**Recycled Content** - 10%		
1		1			MRc4.2	**Recycled Content** - 20%		
1	1				MRc5.1	**Regional Materials** - 10%		
1		1			MRc5.2	**Regional Materials** - 20%		
1				1	MRc6	**Rapidly Renewable Materials**		
1		1			MRc7	**Certified Wood**		Cost premium
14	**3**	**4**	**0**	**7**		Total Points for Materials and Resources		

INDOOR ENVIRONMENTAL QUALITY

Available	Yes	Possible	Likely No	No	Code	Credit		Notes
0	X				IEQp1	**Minimum Indoor Air Quality Performance**		
0	X				IEQp2	**Environmental Tobacco Smoke (ETS) Control**		
1	1				IEQc1	**Outdoor Air Delivery Monitoring**		
1	1				IEQc2	**Increased Ventilation**		
1	1				IEQc3.1	**Indoor Air Quality Management Plan** - During Construction		
1	1				IEQc3.2	**Indoor Air Quality Management Plan** - Before Occupancy		Flush out period assumed
1	1				IEQc4.1	**Low Emitting Materials** - Adhesives and Sealants		
1		1			IEQc4.2	**Low Emitting Materials** - Paintings and Coatings		Confirm if epoxy paints can meet requirements
1	1				IEQc4.3	**Low Emitting Materials** - Flooring Systems		
1	1				IEQc4.4	**Low Emitting Materials** - Composite Wood and Agrifiber Products		
1		1			IEQc5	**Indoor Chemical and Pollutant Source Control**		Walk-off mats at entrances
1			1		IEQc6.1	**Controllability of Systems** - Lighting		
1			1		IEQc6.2	**Controllability of Systems** - Thermal Comfort		
1	1				IEQc7.1	**Thermal Comfort** - Design		
1	1				IEQc7.2	**Thermal Comfort** - Verification		UO to be responsible for verification
1			1		IEQc8.1	**Daylight and Views** - Daylight		
1	1				IEQc8.2	**Daylight and Views** - Views		Need to define "regularly occupied spaces"
15	**10**	**2**	**3**	**0**		Total Points for Indoor Environmental Quality		

INNOVATION IN DESIGN

Available	Yes	Possible	Likely No	No	Code	Credit		Notes
1	1				IDc1.1	**Innovation in Design**		Innovation: Integrated Design
1	1				IDc1.2	**Innovation in Design**		Innovation: TBD
1	1				IDc1.3	**Innovation in Design**		Innovation: TBD
1	1				IDc1.4	**Innovation in Design**		Exemplary Performance: TBD
1	1				IDc1.5	**Innovation in Design**		Exemplary Performance: TBD
1	1				IDc2	**LEED Accredited Professional**		
6	**6**	**0**	**0**	**0**		Total Points for Innovation in Design		

REGIONAL PRIORITY

Available	Yes	Possible	Likely No	No	Code	Credit		Notes
	1			1	RPc1.1	**SSc3** - Brownfield Redevelopment		
				1	RPc1.2	**SSc5.1** - Protect and Restore Habitat		
				1	RPc1.3	**WEc2** - Innovative Wastewater Solutions		
				1	RPc1.4	**MRc1.1** - Building Reuse		
				1	RPc1.5	**MRc3** - Material Reuse		
		1			RPc1.6	**MRc7** - Certified Wood		Cost premium
4	**1**	**1**	**0**	**4**		Total Points for Regional Priority (4 total allowed from the six available)		

110	**63**	**9**	**11**	**28**	**Total Points**
Available	Yes	Possible	Likely No	No	

Total Points Possible
Certified: 40-49
Silver: 50-59
Gold: 60-79
Platinum: 80+

LEED Gold Associated Costs (preliminary list, may not be complete):

USGBC Registration/Certification Fees	$4,000
LEED Plaque	$660
Design Team Documentation	$12,500
Bio-diesel fueling station	$2,350-7,300 for station; plus installation
Enhanced Commissioning	UO Cost; to be confirmed
Measurement & Verification	Estimated range of $15,000-$20,000
Green Power (purchase of renewable energy credits)	Estimated range of $1,000-$3,000
FSC Certified Wood	$22,700
Thermal Comfort- Verification	UO Cost; to be confirmed
Educational Program/Dashboard	UO Cost; to be confirmed

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