

DRAFT

LEED-NC 2.2CHECKLIST

PROJECT NAME: Lane Community College- Health & Wellness Facility

PROJECT NO.: 2805
DATE: August 28, 2008 Revised 6/23/09

LEED Categories														
	Required	Certain	Possible	Unlikely	Points	Client - LCC	Architect - SRG	Landscape - GW	Civil/Elec - BHE	MEP - Solarc	Com. Agent - Heery	Contractor	Phase	Notes
Sustainable Sites														
Prerequisite 1: Construction Activity Pollution Prevention	●				R		■		■			■	CD/CA	BHE - Determine erosion control plan conforms to EPA 2003 requirements
Credit 1: Site Selection		●			1	■	■						SD	LCC - Provide letter declaring site does not meet any of the prohibited criteria
Credit 2: Development Density & Community Connectivity				○	1	■	■	■					SD	LCC - Provide letter RE: density SRG - Provide density calcs., as req'd. SRG to review.
Credit 3: Brownfield Redevelopment				○	1								SD	site=57,600/43560 = 1.32 acres; bldg=42,000/1.32=31,818 sf per acre
Credit 4: Alternative Transportation														
- 4.1: Public Transporation Access		●			1	■							SD/DD	LCC - Get campus and bus route plans and highlight bldg. location to transit
- 4.2: Bicycle Storage & Changing Rooms		●			1	■	■	■		■			SD/DD	LCC - Provide Bicycle racks for 5% of FTE (366x.05=19) and showers for 0.5% FTE (366x.005=2). Todd will give SRG the count of showers in B5
- 4.3: Low Emitting & Fuel Efficient Vehicles			●		1	■	■						SD/DD/CD	LCC - Provide low emitting and fuel efficient vehicles for 3% of FTE (366x.03=11) and preferred parking. SRG will work with LCC on the actual FTE
- 4.4: Parking Capacity				○	1								SD	LCC - Marked Park'g for carpools & vanpools, for 5% of total provided parking spaces.
Credit 5: Site Development														
- 5.1: Protect or Restore Habitat			●		1	■	■						SD/CD	SRG/GW - To research and determine if we can meet this credit
- 5.2: Maximize Open Space			●		1	■	■						SD/CD	LCC - Provide letter stating the open space will be conserved for life of bldg - SRG to verify
Credit 6: Stormwater Design														
- 6.1: Quantity Control				○	1								DD/CD	
- 6.2: Quality Control		●			1			■	■				DD/CD	
Credit 7: Heat Island Effect														
- 7.1: Non-Roof		●			1	■	■	■					SD/DD/CD	GW - Demonstrate that 30% of impervious area will be shaded
- 7.2: Roof		●			1		■						DD/CD/CA	Use the Energy Star compliant roofing (white membrane)
Credit 8: Light Pollution Reduction		●			1	■			■				DD/CD/CA	SRG - Compare new campus stand. site lighting meets credit requirements. SRG will confirm with BHE-E lighting for sculpture
	Total Pts Avail.				14									
Sub-Total Points by Category		7	3	4	14									

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Water Efficiency														
Credit 1: Water Efficient Landscaping														
- 1.1: Reduce by 50%		●			1			■					SD/DD/CD	GW - Provide cut sheets & calcs. Demonstrating H2O consumpt. 50% less
- 1.2: No Potable Use or No Irrigation				○	1								DD/CD	
Credit 2: Innovative Wastewater Technologies				○	1					■			SD/DD/CD	Solarc - Reduce potable water use for building sewage conveyance by 50%. 6/23/09 Solarc calc
Credit 3: Water Use Reduction														
- 3.1: 20% Reduction		●			1					■			DD/CD	Solarc - Provide fixture cut sheets & H2O consumpt. is reduced by 20%. 6/23/09 Solarc calc
- 3.2: 30% Reduction		●			1	■				■			DD/CD	Solarc - Provide fixture cut sheets & H2O consumpt. is reduced by 30%. 6/23/09 Solarc calc
	Total Pts Avail.				5									
Sub-Total Points by Category		3	0	2	5									

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Energy & Atmosphere																		
Prerequisite 1: Fundamental Commisioning of Bldg. Energy Systems	●				R	■	■			■	■	■	SD/CD/CA	Contractor - Develop commission plan per credit and provide letter				
Prerequisite 2: Minimum Energy Performance	●				R					■	■	■	SD/DD	Solarc & Contractor - Provide letter stating if energy design is based on code or ASHRAE				
Prerequisite 3: Fundamental Refrigerant Management	●				R	■	■			■			SD/DD	LCC - Provide equip. schedules and CFC phase out schedule. LCC will investigate central plant status				
Credit 1: Optimize Energy Performance																		
- 1.1: 10.5% New / 3.5% Existing		●			1		■			■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.2: 14% New / 7% Existing		●			1					■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.3: 17.5% New / 10.5% Existing		●			1					■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.4: 21% New / 14% Existing		●			1					■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.5: 24.5% New / 17.5% Existing		●			1					■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.6: 28% New / 21% Existing		●			1		■			■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.7: 31.5% New / 24.5% Existing		●			1					■			SD/DD/CD	Solarc - Provide Energy Cost Budget per ASHRAE 90.1-2004 + signed ECB form				
- 1.8: 35% New/ 28% Existing			●		1													
- 1.9: 38.5% New/ 31.5% Existing			●		1													
- 1.10: 42% New/ 35% Existing			●		1													
Credit 2: Renewable Energy																		
- 2.1: 2.5%			●		1				■	■			SD/CD	BHE - Utilize on-site renewable energy systems to offset building energy cost. BHE-E to determine building total load KW				
- 2.2: 7.5%				O	1								SD/CD					
- 2.3: 12.5%				O	1								SD/CD					
Credit 3: Enhanced Commissioning		●			1	■					■		DD/CD	LCC has contracted with Heery				
Credit 4: Enhanced Refrigerant Management				O	1					■			DD/CD	This being 'Unlikely' is based on Solarc investigation with LCC				
Credit 5: Measurement & Verification		●			1		■		■	■			CD/CA	SRG, Solarc & BHE - To determine scope of M&V per credit and first & long term costs. Cost component is not known yet				
Credit 6: Green Power		●			1	■							CD/CA	LCC to incur additional cost for a two year contract to provide 35% of Bldg. Electricity				
Total Pts Avail.															17			
Sub-Total Points by Category															10	4	3	17

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Materials & Resources														
Prerequisite 1: Storage & Collection of Recyclables	●				R	■	■					■	SD/DD	Speak with client regarding location of collection
Credit 1: Building Reuse														
- 1.1: Maintain 75% of Exist. Walls, Floor and Roof				O	1								SD	
- 1.2: Maintain 100% of Exist. Walls, Floor and Roof				O	1								SD	
- 1.3: Maintain 50% of Interior Non-Struct. Elements				O	1								SD	
Credit 2: Construction Waste Management														
- 2.1: Divert 50% from Disposal		●			1	■	■					■	SD/DD	LCL Develop a waste management plan
- 2.2: Divert 75% from Disposal		●			1	■	■					■	SD/DD	LCL Develop a waste management plan
Credit 3: Material Reuse														
- 3.1: Specify 5%				O	1								SD/DD/CD/CA	Use salvaged, refurbished or reused materials: at least \$450,000 +/-
- 3.2: Specify 10%				O	1								SD/DD/CD/CA	Use salvaged, refurbished or reused materials: at least 10%, of total value of mat'ls
Credit 4: Recycled Content														
- 4.1: 10% (post consumer +1/2 pre-consumer)		●			1		■					■	DD/CD/CA	Research material with manufacturer for content percentages, tabulate during construction
- 4.2: 20% (post consumer +1/2 pre-consumer)			●		1								DD/CD/CA	Research material with manufacturer for content percentages, tabulate during construction
Credit 5: Local/Regional Materials														
- 5.1: 10% Extracted, Processed and Mfg. Regionally		●			1		■					■	DD/CD/CA	SRG - Research and determine compliance; LCL will tabulate during construction
- 5.2: 20% Extracted, Processed and Mfg. Regionally			●		1								DD/CD/CA	SRG - Research and determine compliance; LCL will tabulate during construction
Credit 6: Rapidly Renewable Materials				O	1								DD/CD/CA	at least \$225,000 +/-
Credit 7: Certified Wood				O	1		■					■	DD/CD/CA	Determine 50% of wood-base products are certified
	Total Pts Avail.				13									
Sub-Total Points by Category		4	2	7	13									

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Environmental Quality														
Prerequisite 1: Minimum IAQ Performance	●				R		■			■			CD/CA	Obtain documentation from Solarc regarding compliance with ASHRAE 62.1-2004
Prerequisite 2: Environmental Tobacco Smoke Cntrl.	●				R	■	■			■			DD/CD	Obtain documentation from LCC regarding building policies prohibiting smoking
Credit 1: Outdoor Air Delivery Monitoring			●		1		■			■			DD/CD	SRG to speak to client about implementing sensors; Heery indicates this might be affordable. Solarc : this requires CO2 sensors in offices
Credit 2: Increased Ventilation				●	1		■			■			SD/DD	Obtain documentation from Solarc regarding compliance with ASHRAE 62.1-2004
Credit 3: Construction IAQ Management Plan														
- 3.1: During Construction		●			1		■					■	CD/CA	Develop an IAQ management plan and demonstrate compliance
- 3.2: Before Occupancy		●			1		■					■	CA	Obtain documentation from engineer describing building flush out procedures and times
Credit 4: Low Emitting Materials														
- 4.1: Adhesives and Sealants		●			1		■			■			DD/CD	Research and provide cut sheets/specifications
- 4.2: Paints & Coatings		●			1		■						DD/CD	Research and provide cut sheets/specifications/low VOC
- 4.3: Carpet Systems		●			1		■						DD/CD	Research and provide cut sheets/specifications
- 4.4: Composite Wood & Agrifiber Products		●			1		■						DD/CD	Research and provide cut sheets/specifications
Credit 5: Indoor Chemical and Pollutant Control				●	1		■			■			SD/CD	Provide documentation demonstrating compliance with credit/copy room exhaust
Credit 6: Controllability of Systems														
- 6.1: Lighting		●			1		■						DD/CD	Provide individual lighting controls for 90% (minimum) of the building occupants
- 6.2: Thermal Comfort		●			1								DD/CD	Provide individual controls for 50% of the building occupants (operable windows count without distance limitations in multi-occupant spaces).
Credit 7: Thermal Comfort														
- 7.1: Design		●			1					■			CD/CA	HVAC systems and the building envelope to meet requirements of ASHRAE 55-2004
- 7.2: Verification		●			1		■			■			DD/CD/CA	Implement a thermal comfort survey of occupants within six to 18 months after occupancy. LCC will do this
Credit 8: Daylight and Views														
- 8.1: Daylight 75% of Spaces			●		1		■						DD/CD/CA	Achieve a glazing factor of 2% in a minimum of 75% of all regularly occupied areas. SRG will do calculation to see if 75% of spaces qualify
- 8.2: Views of 90% of Spaces		●			1		■						DD/CD/CA	Demonstrate that 90% of spaces have direct line of site to exterior; SRG will calculate
	Total Pts Avail.				15									
Sub-Total Points by Category		11	2	2	15									

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Innovation in Design															
Credit 1: Innovation in Design															
- 1.1: Education		●			1	■	■						SD/DD/CD	To be determined	
- 1.2: Exemplary Performance Waste Recycling		●			1	■	■						SD/DD/CD	LCL will tabulate during construction	
- 1.3: Green Cleaning		●			1	■	■						SD/DD/CD	To be determined	
- 1.4: Universal Access		●			1	■	■						SD/DD/CD	To be determined	
- 1.5: Usolar thermal for PE building			●		1	■	■						SD/DD/CD	This only comes into play if we can't get a point for this in EA	
Credit 2: LEED Accredited Professional		●			1		■						SD/DD/CD/CA		
	Total Pts Avail.				6										
Sub-Total Points by Category		5	1	0	6										

	Total Pts Avail.				70									
Total Points by Category		40	12	18	70									

LEED ratings:
 Certified 26-32 points
 Silver 33-38 points
 Gold 39-51 points
 Platinum 52-69 points