UBC Residential Environmental Assessment Program

Project Information

Developer: Prodigy Adera Projects Ltd. Architect:

Rositch Hemphill & Associates

Project Name: Prodigy Neighbourhood: UBC South Campus

Lot No.: 32

Street Address:

Project Stage: Design

UBC DP Reference No.:

Date: 21-Oct-13

MANDATORY CREDITS	Max	Score	?
Sustainable Sites (SS M)	10	10	0
Water Efficiency (WE M)	6	6	0
Energy & Atmosphere (EA M)	19	17	0
Indoor Environmental Quality (IEQ M)	11	11	0
Construction (CON M)	8	8	0
Innovation & Design Process (ID M)	2	2	0
Subtotal	56	54	0
OPTIONAL CREDITS	Max	Score	?
Sustainable Sites (SS)	10	8	0
Water Efficiency (WE)	25	20	0
Energy & Atmosphere (EA)	50	20	0
Materials & Resources (MR)	27	20	0
Indoor Environmental Quality (IEQ)	7	7	0
Construction (CON)	4	4	0
Innovation & Design Process (ID)	21	21	0
Subtotal	144	100	0
TOTAL	200	154	154

RFAP Rating:	GOL	D(1/10 -	160 nts)	

66 – 79 pts Basic Compliance 80 – 109 pts Bronze 110 - 139 pts Silver 140 - 169 pts Gold 170 – 200 pts Platinum

PART	ONE:	MANDATORY DESIGN CREDITS			
		Performance Category: Sustainable Sites (SS)	10	Points	
		The intent of the Sustainable Sites category is to reduce the negative impacts of development	, mainta	in the na	atural landscape, vegetation
			Score:	10	
SS		STORM WATER MANAGEMENT			
		Storm Water Management Plan	2	2	
		Develop a plan that integrates the on-site stormwater management system with the			
		neighbourhood-wide stormwater management principles and strategies, including controlling			
		of rate and/or quantity of run-off as required.			
SS	M2	NEW LANDSCAPING			
	M2.1	Adapted and Ecologically Sound Planting	2	2	
		Demonstrate that landscape design has minimized the need for pesticides and irrigation			
		through the selection of adaptive and drought-tolerant plants and consideration of the			
		principles of Integrated Pest Management and xeriscaping.			
SS	M3	ALTERNATIVE TRANSPORTATION			
	M3.1	Bicycle Storage	2	2	
		Provide covered storage facilities for securing bicycles in accordance with the UBC			
		Development Handbook.			
	M3.2	Contribution to Community Car Sharing	2	2	
		Contribute to the development of a community car-sharing network by funding the equivalent			
		of one community vehicle per 100 residential units.			
SS	M4	LIGHT POLLUTION REDUCTION			
		Light Pollution Reduction	2	2	
		Do not exceed Illuminating Engineering Society of North America (IESNA) illuminance	-	Ī -	
		requirements as stated in the Recommended Practice Manual: Lighting for Exterior			
		Environments.			
		Performance Category: Water Efficiency (WE)	6	Points	
		The intent of the Water Efficiency category is to encourage strategies that reduce the amount	-		rused for landscape irrigation
		The monte of the trade Emission accepts to to emissing strategies that reades the amount	Score:		acca for farfaccape irrigation
WE	M1	WATER EFFICIENT LANDSCAPING			
		Efficient Irrigation Technology and Rainwater Use	2	2	
		Design and install a water-efficient irrigation system that includes an automated controller,	_	_	
		rain or soil sensors and pressure regulator and for non-grass areas use a micro- or drip-feed			
		irrigation or install a temporary irrigation system.			
WE		WATER USE REDUCTION		I	
		Low-Flush Toilets	2	2	
		Specify and install low-flush or ultra low-flush toilets (max. 6 L per flush) for all water closets.	_	_	
	M2 2	Low-Flow Faucet Aerators	2	2	
	IVIZ.Z	Specify and install low-flow faucets with aerators in all bathroom sinks (max. 3.8 L per	2		
		minute) and in all kitchen sinks (max. 6.8 L per minute).			
		Performance Category: Energy & Atmosphere (EA)	19	Points	
		The intent of the Energy & Atmosphere category are to reduce depletion of non-renewable en			and to reduce environmental
		The mont of the Energy & Attitiosphere dategory are to reduce depiction of non-renewable on	Score:		and to reduce environmental
EA	M1	MINIMUM ENERGY EFFICIENCY MEASURES	JUJI G.	17	1
_, ,		Minimum Roof Insulation	1	1	
		Design the roof assembly with a minimum insulation value of R-40 for buildings with attic		Ι΄.	
		space and R-28 for cathedral ceilings/flat roofs.			
	M1 2	Minimum Exterior Wall Insulation	1	1	
		Design the exterior building envelope with a minimum insulation value of R-22 for non-	•	'	
		plesign the exterior building envelope with a minimum insulation value of K-22 for hon-			
	M1 2	Minimum Floor Insulation	1	1	
			'	'	
		Design floors above non-heated parkade areas with a minimum insulation value of R-30 for			
		framed floors and R-14 for slab floors.	/1	1	
		Energy Efficient Windows	4	4	
		Specify and install Energy Star-rated windows <i>or</i> windows with a maximum overall U-value			
		of 0.35 for vinyl frames or 0.50 or less for aluminum frames.	2	2	
		Minimum Furnace or Make-up Air Unit Efficiency	3	3	
		Specify and install furnaces and make-up air units with a minimum efficiency of 80%.	1	2	
	IVI I .O	Domestic Hot Water Chasify and install a gas DHW bailer with a minimum officiency of 900/ (mid officiency bailer)	2	2	
		Specify and install a gas DHW boiler with a minimum efficiency of 80% (mid-efficiency boiler)			

	M1.7	Low-Flow Shower Heads	1	1	
		Specify and install water-saving showerheads with a maximum flow rate of 8.5 L per minute			
		in each shower.			
	M1 8	Energy Star Appliances	2	2	
	1011.0	Specify and install Energy Star-labelled dishwashers and refrigerators in each unit.	_	_	
	M11 O	Energy Star Clothes Washer	1	1	
	W1.9		'	'	
		Specify and install Energy Star-labelled clothes washers for each unit <i>or</i> if clothes washers			
		are provided only as an option, specify and offer only Energy Star models.			
	M1.10	Programmable Thermostats	2	0	Request variance - best
		Specify and install Energy Star-labelled programmable thermostats for at least the largest			practice prohibits when infloor
		heating zone in each unit.			hydronic heat is used
	M1.11	Common Area Lighting	1	1	
		Specify and install only non-incandescent lighting, such as fluorescent, compact fluorescent			
		or LED, in common areas.			
		Performance Category: Indoor Environmental Quality (IEQ)	11	Points	
		The intent of the Indoor Environmental Quality category is to provide guidance in achieving er			
		The intent of the indoor Environmental Quality eategory is to provide guidance in achieving or	Score:		crivirorimental quality through
IEQ	M1	LOW-EMITTING MATERIALS	Score.	- 11	
ILU			1	2	ı
	IVI I . I	Adhesives and Sealants	3	3	
		Specify and use adhesives, sealants and sealant primers that do not exceed the VOC limits			
		of the Canadian Environmental Choice/EcoLogo program <i>or</i> do not exceed the VOC limits			
		specified in the State of California's South Coast Air Management District Rule #1168.			
	M1.2	Paints	2	2	
		Specify and use paints and coatings that carry an EcoLogo label or those approved by the			
		Master Painter's Institute as having a minimum of MPI Environmental Level 2.			
		Floor Coverings	2	2	
		Specify and install floor covering systems that do not exceed the Carpet and Rug Institute	_	_	
		Green Label Indoor Air Quality Test Program or that carry the Canadian Environmental			
		Choice/Ecologo certification.			
IEQ	M2	INDOOR AIR QUALITY			<u> </u>
ILQ		Ventilation Effectiveness	1	1	I
	IVIZ. I		4	4	
		Droporo and implement an affactive air management atrategy that meets the requirements of			
		Prepare and implement an effective air management strategy that meets the requirements of			
		CSA F326 or ASHRAE-62.		D-!	
		CSA F326 or ASHRAE-62. Performance Category: Construction (CON)	8	Points	
		CSA F326 or ASHRAE-62.	8 e site and		d. The construction credits
2011	Ma	CSA F326 or ASHRAE-62. Performance Category: Construction (CON) The construction process can impose significant and lasting impact on the ecology of both the	8		d. The construction credits
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Performance Category: Innovation & Design Process (ID) The intent of Innovation & Design Process category is to provide incentive and credit for general design and other Score: Score: 2 ID M1 INTEGRATED DESIGN PROCESS M1.1 Goal-Setting Workshop Hold a goal setting workshop including the developer, design consultants and contractor to review the Residential Environmental Assessment Program, set goals for the project and assign responsibilities. PART TWO: OPTIONAL DESIGN CREDITS	er innovative practices that
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Performance Category: Sustainable Sites (SS) 10 Points	
The intent of the Sustainable Site category is to reduce the negative impacts of development, maintain the nature	ral landscape, vegetation
Score: 8	
SS 1 RECYCLING AND COMPOSTING	
1.1 In-Suite Recycling and Compost Separation 1 1	
Provide a space and system for simplified separation and collection of recycling and	
compostables in each suite or unit.	
1.2 On-Site Composting Facilities 1 1	
Designate space for compost collection at the building level <i>or</i> identify an appropriate	
location on the Landscape Plan for future on-site composting.	
1.3 Recycling Collection 3 3	
Provide for collection of domestic paper, plastic, glass and metal recyclables by contracting	
with a waste management company for the service.	
1.4 Off-Site Composting 2 2	
Provide for collection of compost for delivery to a centralized composting facility.	
SS 2 ALTERNATIVE TRANSPORTATION	
2.1 Alternative Fuel Vehicles 1 1	
For every eighty parking stalls, or fraction thereof, designate two parking stalls for use by	
alternatively-fuelled vehicles <i>and</i> provide electrical service suitable for a charging station for	
every two parking stalls designated for alternatively-fuelled vehicles. 2.2 Community Car Sharing Vehicle 2 0	
Provide a new vehicle and parking space to a community car-sharing network that is to be	
Provide a new vehicle and parking space to a community car-sharing network that is to be	
parked on-site. This is over and above the requirement of SS M3.2. Performance Category: Water Efficiency (WE) 25 Points	
, , , , , , , , , , , , , , , , , , ,	and for londonous inication
The intent of the Water Efficiency category is to encourage strategies that reduce the amount of potable water up	ised for landscape imgation
WE 1 WATER EFFICIENT LANDSCAPING Score: 20	
1.1 Reduce Potable Water Use 3 3	
Reduce potable water use for site irrigation needs by 50%.	
1.2 Eliminate Potable Water Use 5 0	
1.2 Eliminate Potable Water Use 5 Usininate potable water use for site irrigation needs.	
1.2 Eliminate Potable Water Use Eliminate potable water use for site irrigation needs. WE 2 WATER USE REDUCTION	
1.2 Eliminate Potable Water Use Eliminate potable water use for site irrigation needs. WE 2 WATER USE REDUCTION 2.1 Dual-Flush Toilets 5 0 3 3	
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EA	1	BASIC ENERGY EFFICIENCY MEASURES			
	1.1	Roof Insulation	1	0	
		Design the roof assembly with a minimum insulation value of R-60 for buildings with attic			
		space and R-40 for cathedral ceilings/flat roofs.			
	1.2	Exterior Wall Insulation	1	0	
		Design exterior building envelope with a minimum insulation value of R-28 for non-glazed			
		areas.			
	1.3	Energy Star Windows	2	2	
		Specify and install Energy Star-rated windows with a maximum overall U-value of 0.31 for			
		vinyl frames or 0.46 for aluminum frames.			
	1.4	Furnace or Make-Up Air Unit Efficiency	2	2	
		Specify and install furnaces and make-up air units with a minimum efficiency of 85%.			
	1.5	Domestic Hot Water	2	2	
		Specify and install a modulating DHW gas boiler with a minimum efficiency of 85% (mid-			
		efficiency boiler) or electric DHW heaters with an Energy Factor of 0.94 or higher.			
	1.6	Boiler Management System	2	2	
		Install and implement a boiler management system to match the boiler operation to the			
		building loads and optimize the boiler controls for maximum energy savings or specify			
		electric DHW heaters with an Energy Factor of 0.96 or higher.			
	1.7	Low-Flow Shower Heads	2	0	Not Achievable - press. valve
		Specify and install low-flow showerheads (max. 5.7 L per minute) in each unit.			will not work and complaints
	1.8	Compact Fluorescent Lights	2	2	
		Specify and install compact fluorescent lamps for lighting of in-suite circulation areas such as			
		corridors, entries, landings, etc.			
	1.9	Occupancy Sensors for Parkade Lighting	2	2	
		Install occupancy sensors for lighting over parking areas of the parkade. Lighting over the			
		drive-aisle and exits, as well as other emergency or security lighting should remain			
		unswitched.			
	1.1	Bundle Bonus (25% < MNECB)	3	0	
		Achieve credits EA 1.1 to EA 1.9, which is roughly equivalent to reducing energy use by 25%			
		below the <i>Model National Energy Code for Buildings or</i> demonstrate equivalent			
		achievement with energy modeling (see <i>Note</i> on page 44 of the REAP Reference Guide).			
EA	2	ADDITIONAL ENERGY EFFICIENCY MEASURES		4	
	2.1	Minimum Floor Insulation	1	1	
		Design floors above non-heated parkade areas with a minimum insulation value of R-42 for			
	2.2	framed floors and R-20 for slab floors.		_	
	2.2	High-Performance Energy Star Windows	2	0	
		Specify and install Energy Star-rated windows with a maximum overall U-value of 0.26 for			
	2.2	vinyl frames or 0.42 for aluminum frames.	1	_	-
	2.3	Heat Recovery System	2	0	
	2.4	Design and install a heat recovery system with a minimum 50% overall effectiveness. Geoexchange DHW Heating System	5	0	+
	2.4		Э	U	
		Design and install a geoexchange DHW heating system to supply a minimum of 25% of the			
	2.5	peak DHW heating load and 70% of the total DHW energy load. Bundle Bonus (40% < MNECB)	3	0	
	2.0	If Credit EA 1.10 (25% < MNECB) has been achieved, this credit is available for also	J	U	
		achieving credits EA 2.1 to EA 2.4, which is roughly equivalent to reducing energy use by			
		40% below the <i>Model National Energy Code for Buildings or</i> demonstrate equivalent			
		performance with energy modeling (see <i>Note</i> on page 44 of the REAP Reference Guide).			
EA	3	ADVANCED ENERGY EFFICIENCY MEASURES			
		Domestic Hot Water	2	2	
	J. I	Specify and install a condensing DHW gas boiler with a minimum efficiency of 92% (high-	۷.		
		efficiency boiler) <i>or</i> electric DHW heaters with an Energy Factor of 1.00 or higher.			
	3.2	Advanced Energy Performance (50% < MNECB)	5	0	
	J.2	Demonstrate that energy use is 50% below the <i>Model National Energy Code for Buildings</i> .	,		
EA	4	ENERGY METERING			1
		Gas Sub-Metering	2	2	Substitute hydronic heat BTU
	•••	Provide separate metering for measuring natural gas consumption in individual units.	_	l -	meters for gas meters
EA	5	RENEWABLE ENERGY			,store to gue motore
		Solar Access Study	1	1	Photo-voltaic System
		Undertake shading and solar access studies to evaluate the potential for the installation or			
		retrofit of solar energy collection systems.			
		W .		-	

	5.2	Future Solar Technologies Pre-plumb buildings for future adoption of solar hot water or photovoltaic technologies.	2	2	Photo-voltaic System
ŀ	5.3	Install Solar Technologies	3	0	
	0.0	Utilize solar technologies such as photovoltaic panels or solar domestic hot water heating		Ŭ	
,		systems.			
	5.4	Green Power Certificates Contract with BC Hydro to purchase Green Power Certificates equivalent to the electricity	3	0	
		use of the building for the first two years following occupancy.			
		Performance Category: Materials & Resources (MR)	27	Points	
		The intent of the Materials & Resources category is to encourage design strategies that reduce			terial resources, reduce
MR	1	RECYCLED CONTENT AND REUSED MATERIALS	Score:	20	
IVIIX	1.1	Reused Building Materials	2	0	
		Use salvaged, refurbished, or reused materials for at least 5% of the total cost of building			
	1.0	materials.			
	1.2	Reused Building Materials	3	0	
	1.3	Recycled Content Materials	10	8	
		Specify and use building materials with the following recycled content levels (one point per			
		recycled material, with a bonus 10th point for including all nine materials).			
		☐ Common area carpet with minimum 25% recycled content	Y/N	Υ	
		☐ Dimensional wall lumber with minimum 75% recycled content	Y/N	Ν	
		☐ Drywall with minimum 15% recycled content	Y/N	Υ	
		☐ Batt insulation with minimum 40% recycled content	Y/N	Υ	
		□ Doors contain minimum 15% recycled material	Y/N	Υ	
		·			
		☐ Concrete with min. 20% fly ash content, excluding suspended slabs	Y/N	Y	
		☐ Concrete with min. 40% fly ash content, excluding suspended slabs	Y/N	Υ	
		☐ Cabinetry with minimum 20% recycled content	Y/N	Υ	
		☐ MDF products with minimum 50% recycled content	Y/N	Υ	
MR		REGIONAL MATERIALS			•
	2.1	Regionally Manufactured Building Materials	2	2	
		Use a minimum of 20% (by value) of building materials and products that are manufactured within a radius of 800 km (500 miles).			
1	2.2	Regionally Sourced Building Materials	2	2	
		Of the materials from Credit MR 2.1, use a minimum of 50% (by value) of building materials			
		and products that are extracted, harvested or recovered (as well as manufactured) within a			
MR	3	radius of 800 km (500 miles). CERTIFIED AND NON-ENDANGERED FOREST PRODUCTS			
		Dimensional Lumber	3	3	
		Demonstrate that a minimum of 50% of the total value of dimensional lumber is certified in			
		accordance with either the Forest Stewardship Council (FSC) or the Canadian Standards			
	3.2	Association Z809 (CSA). Plywood	2	2	
	3.2	Demonstrate that a minimum of 50% of the total value of plywood used is certified in		2	
		accordance with either the Forest Stewardship Council (FSC) or the Canadian Standards			
	2.2	Association Z809 (CSA).	2	2	
	3.3	Renewable Hardwood Floors Specify and install bamboo floors <i>or</i> hardwood floors certified in accordance with the Forest	3	3	
		Stewardship Council or CSA Z809. If floors are offered only as an option, specify and offer			
		only bamboo or renewable products with third-party certification.			
		Performance Category: Indoor Environmental Quality (IEQ) The intent of the Indoor Environmental Quality entenancials applicated indoor environmental Quality entenancials applicated indoor environmental Quality entenancials and indoor environmental Quality entenancials and indoor environmental Quality entenancials and indoor environmental Quality (IEQ)	7	Points	through the throughtful and a through
		The intent of the Indoor Environmental Quality category is to achieve enhanced indoor environmental Control of the Indoor Environmental Co	nmental Score:	quality 1	trirough the thoughtful selection
IEQ	1	LOW-EMITTING MATERIALS	50010.	,	
	1.1	Low VOC Paints	3	3	
		Specify and use paints approved by the Master Painter's Institute as having a minimum of			
	1.2	MPI Environmental Level 3. Urea Formaldehyde-Free Cabinetry	2	2	Request we meet "no added
	1.2	Specify and install interior cabinetry doors and boxes that are urea formaldehyde-free.		_	urea formaldehyde" rather

	1.3	Urea Formaldehyde-Free Composite Wood Products	2	2	
		Specify and install interior composite wood products, such as flooring, doors, trim, etc., that			
		are urea formaldehyde-free.			
		Performance Category: Construction (CON)	4	Points	
		The construction process can impose significant and lasting impact on the ecology of both the	-		d. The Construction credits
		The second section process of the second section of the section of the second section of the section of the second section of the section	Score:	4	
CON	1	CONSTRUCTION IAQ MANAGEMENT PLAN	000.0.		
	1.1	Indoor Air Quality Management Plan	2	2	
		Prepare and implement an Indoor Air Quality (IAQ) Management Plan for the construction	_	_	
		and pre-occupancy phases of the building.			
ŀ	1.2	Flushout	2	2	
		Conduct a minimum two-week continuous building flushout with new filtration media at 100%	_	_	
		outside air after construction ends and prior to occupancy <i>or</i> conduct a baseline indoor air			
		quality test.			
		Performance Category: Innovation & Design Process (ID)	21	Points	
		The intent of the Innovation & Design Process category is to provide incentive and credit for g	eneral d	lesign ar	nd other innovative practices
			Score:	21	·
ID	1	INTEGRATED DESIGN			
ľ	1.1	Green Building Specialist	2	2	
		Engage an expert in green buildings and sustainable construction practices to provide advice			
		on effective green building strategies to the design team.			
ľ	1.2	Energy Performance Screening	1	1	
		Utilize Natural Resource Canada's online CBIP screening tool			
		(http://cbipscreen.nrcan.gc.ca/) to determine the general energy performance of the building			
		design.			
		Energy Modeling Workshop	2	2	
		Model the energy performance of the building and hold a workshop with the design team and			
		contractor to evaluate the results and optimize the design of the building.			
ID		UNIVERSAL DESIGN		1	
	2.1	Design for Safety and Accessibility	1	1	
		Demonstrate that at least 25% of the units in the building have been designed to meet the			
		SAFERhome standards (http://www.saferhomesociety.com/), which address issues of			
ļ		accessibility, children's safety, seniors and aging in place.			
	2.2	Design for Security and Crime Prevention	2	2	
		Demonstrate that the design has been reviewed by an accredited Crime Prevention Through			
		Environmental Design (CPTED) practitioner (http://www.designcentreforcpted.org/).			
ID	3	MARKET TRANSFORMATION			
עו			1	1	
	3.1	Educate the Sales Staff Develop marketing materials based on the environmental performance of the project and	ı	'	
		ensure the sales staff is aware of and knowledgeable about the green building features.			
ŀ	3.2	Educate the Homeowner	1	1	
	J.Z	Develop a homeowner's manual that describes all of the sustainable features of the project.	'	'	
ID	4	ACADEMIC LINKS			
		Enhance Research or Further Student Development	5	5	
		Collaborate with UBC students and/or faculty on a research project or other opportunities to			
		enhance the academic mission of the University and integrate it with the community.			
ID	5	INNOVATIVE DESIGN			
ľ	5.1	Innovative Design or Exemplary Achievement	2	2	DE ready
		Demonstrate exceptional performance above the requirements set by one of the existing			-
		credits or the implementation of an innovative design strategy not specifically addressed by			
		any of the existing credits.			
	5.2	Innovative Design or Exemplary Achievement	2	2	Occupancy sensors in
		Demonstrate exceptional performance above the requirements set by one of the existing			bathroom and corridors, quiet
		credits <i>or</i> the implementation of an innovative design strategy not specifically addressed by			bathroom fans
ļ		any of the existing credits.			90% MAU
	5.3	Innovative Design or Exemplary Achievement	2	2	100% of lumber and plywood
		Demonstrate exceptional performance above the requirements set by one of the existing			CSA Z809
		credits <i>or</i> the implementation of an innovative design strategy not specifically addressed by			
		any of the existing credits.			