

LEED v4 for BD+C: New Construction and Major Renovation		Project Name: Norwell Public Library	
Project Checklist		Date: 19-Jan-17	
Y ? N			
	Credit		
	Integrative Process		1
<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>
<b>Location and Transportation</b>			
	Credit		16
	LEED for Neighborhood Development Location		16
1	Credit	Y	1
	Sensitive Land Protection		2
	Credit	Y	2
	High Priority Site		5
	Credit	Y	5
	Surrounding Density and Diverse Uses		5
	Credit	Y	5
	Access to Quality Transit		1
1	Credit	Y	1
	Bicycle Facilities		1
	Credit	Y	1
	Reduced Parking Footprint		1
1	Credit	Y	1
	Green Vehicles		
<b>4</b>	<b>0</b>	<b>14</b>	<b>0</b>
<b>Sustainable Sites</b>			
	Prereq	Y	10
Y	Construction Activity Pollution Prevention		Required
1	Credit	Y	1
	Site Assessment		2
1	Credit	Y	2
	Site Development - Protect or Restore Habitat		1
	Credit	Y	1
	Open Space		3
1	Credit	Y	3
	Rainwater Management		2
	Credit	Y	2
	Heat Island Reduction		1
1	Credit	Y	1
	Light Pollution Reduction		
<b>5</b>	<b>0</b>	<b>11</b>	<b>0</b>
<b>Water Efficiency</b>			
	Prereq	Y	Required
Y	Outdoor Water Use Reduction		Required
Y	Indoor Water Use Reduction		Required
Y	Prereq	Y	Required
1	Credit	Y	2
	Building-Level Water Metering		6
3	Credit	Y	6
	Outdoor Water Use Reduction		2
	Credit	Y	2
1	Credit	Y	1
	Cooling Tower Water Use		
	Water Metering		
<b>22</b>	<b>0</b>	<b>33</b>	<b>0</b>
<b>Energy and Atmosphere</b>			
	Prereq	Y	Required
Y	Fundamental Commissioning and Verification		Required
Y	Prereq	Y	Required
Y	Minimum Energy Performance		Required
Y	Prereq	Y	Required
Y	Building-Level Energy Metering		Required
Y	Fundamental Refrigerant Management		Required
3	Credit	Y	6
	Enhanced Commissioning		18
14	Credit	Y	1
	Optimize Energy Performance		2
	Credit	Y	2
	Advanced Energy Metering		3
2	Credit	Y	1
	Demand Response		2
2	Credit	Y	1
	Renewable Energy Production		2
1	Credit	Y	1
	Enhanced Refrigerant Management		
2	Credit	Y	2
	Green Power and Carbon Offsets		
		<b>55</b>	<b>0</b>
		<b>0</b>	<b>0</b>
		<b>TOTALS</b>	<b>Possible Points: 110</b>
		Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110	

## **Norwell Public Library**

### **Energy Efficient and Sustainable design elements include:**

- (1) A highly efficient building envelope. Includes high levels of roof, ceiling and foundation insulation with minimal thermal bridging. Air tight installation of windows, skylights, doors and mechanical louvers minimizes air infiltration and heat loss.
- (2) The massing and footprint of the building create a 'C' shaped south-facing Courtyard to extend seasonal use of the landscaped outdoor spaces; and offer inspirational views from inside the library.
- (3) The building interior is designed with maximum use of natural daylight, minimizing artificial light during daytime hours. At night high efficiency indirect lighting is used throughout mixed with direct task and display lighting for specific areas.
- (4) High efficiency plumbing fixtures reduce water use by 30%.
- (5) Wood products used in the building have a net negative carbon footprint.
- (6) A 32-panel, 13.3kW photovoltaic system that will reduce the building's demand for power, saving over \$2,000 annually.
- (7) Linoleum flooring is specified which uses 11% recycled content and 70% renewable material.
- (8) The landscaping does not require a permanent irrigation system.
- (9) Many of the building materials used include recycled content: 75% of structural steel, 38% of carpeting, and 32% of ceramic tile.
- (10) High efficiency vehicles are encouraged by the use of charging stations and priority parking spaces.