

Applicant Jarrett Kest

Application # \_\_\_\_\_

Township of Berkeley Heights

Township Official

General Construction and Design & Grounds and Landscaping Considerations

<u>Applicant</u>	<u>Reviewed</u>	<u>Item</u>
( ) N/A	( )	Consider the orientation and design to maximize passive solar heat/cooling. For example, orient the building along its east-west axis to have a larger surface exposure to the south, and use deciduous vegetation to block the sun in the summer months and maximize light and heat in the winter months.
(✓)	( )	Minimize disturbance to soils and vegetation. Use proper planning to protect vegetation during construction and prevent damage to surrounding areas.
(✓)	( )	Create landscapes that use native plantings to limit the need for lawn chemicals and maintenance (mowing, trimming, watering). Consider using captured rainwater (rain barrel) or recycled grey water for irrigation.
(✓)	( )	Recycle and/or salvage non-hazardous construction and demolition debris.
(✓)	( )	Consider the use of renewable building materials and products. Consider choosing products with low VOCs and avoid products that contain hazardous chemicals (i.e. formaldehyde, cyanide).
(✓)	( )	The use of local construction companies and products (i.e. local and sustainable woods) is recommended.
( ) N/A	( )	Where practicable, place parking spaces in shaded areas and consider using paving materials with an SRI value >29 (this will reflect, not absorb solar heat).

Storm Water Management Considerations

<u>Applicant</u>	<u>Reviewed</u>	<u>Item</u>
(✓)	( )	Consider limiting impervious surfaces such as use of an open grid pavement system (at least 50% pervious).
(✓)	( )	Consider reducing impervious cover to promote infiltration that captures and treats storm water runoff from rainfall.
(✓)	( )	Consider avoiding runoff to other properties by installing an underground cistern or rain garden. This will keep water on your own property and out of the sewer.

Energy & Lighting Considerations

<u>Applicant</u>	<u>Reviewed</u>	<u>Item</u>
N/A ( )	( )	Consider providing natural daytime lighting as much as possible with skylights or solo tubes. Consider using triple-pane windows, with protection against sun damage.
N/A ( )	( )	Consider choosing energy-efficient light bulbs. Use solar lighting outdoors.
N/A ( )	( )	Consider use of motion sensor lighting where applicable. In commercial/industrial settings consider use of sensor controls.
N/A ( )	( )	Conserve energy, reduce electricity use and if possible incorporate renewable energy.
N/A ( )	( )	Consider choosing ENERGY STAR appliances.

Heating and Cooling Considerations

<u>Applicant</u>	<u>Reviewed</u>	<u>Item</u>
N/A ( )	( )	Consider Increasing amount of insulation by using 2 x 6 studs.
N/A ( )	( )	Consider installation programmable thermostats and attic fans to regulate heating and cooling.
N/A ( )	( )	Consider installation heat pumps to transfer energy heat and cold.
N/A ( )	( )	Consider use high efficiency boilers/furnaces.
N/A ( )	( )	Consider use light color roofing materials to limit heat absorbed by dark colored roofs. Consider tile or metal roofs.
N/A ( )	( )	Consider use roofing material with a solar reflectance index (SRI) equal or greater than 78 for low roofs and 29 for steep-sloped roofs.

Water Usage Considerations

<u>Applicant</u>	<u>Reviewed</u>	<u>Item</u>
N/A ( )	( )	Consider use of low-flow shower heads.
N/A ( )	( )	Consider installing dual-flush toilets.
N/A ( )	( )	If there are any other sustainable building practices not mentioned before, that will be used in this project, please describe: _____ _____ _____