



Sustainable Design Principles in the New Construction

Noted below are just *some* of the design principles being applied to the design and construction of the new Sanctuary and Connector Building. Most of these items would translate to LEED points were we pursuing actual LEED certification.

Reduce Reuse Recycle Reduce Reuse Recycle Reduce

Reduce

- ⊕ **Minimized downstream flooding with water detention facilities**
- ⊕ **Minimized irrigation/water use with low water planting**
- ⊕ **Reduced water usage with low-water plumbing fixtures**
- ⊕ **Reduced contamination of run-off water thru use of bio-swailes filtering**
- ⊕ **Reduced site impact beyond standards, as site maintains 47% open space against 25% requirement**
- ⊕ **Reduced need for air conditioning with a high reflectance, white roof**
- ⊕ **Reduced ozone pollution as air conditioning system will use zero CFC-based refrigerants**
- ⊕ **Minimized light pollution using "Dark Sky" principles**
- ⊕ **Reduced power usage by utilizing more daylight, efficient fixtures, mechanical shading, motion sensors and dimming systems**
- ⊕ **Radically reduced lighting load in sanctuary – reduced to 1/3 of previous**
- ⊕ **Reduced energy use (approximately 25-30% less than a standard church) by using energy efficient mechanical system as well as highly efficient, insulating building materials**
- ⊕ **Reduced building operating energy usage and cost by implementing building commissioning prior to occupancy**
- ⊕ **Reduced pollution through use of low VOC emitting materials in paints, coatings, adhesives, sealants, carpeting, among others**
- ⊕ **Reduced pollution during construction with erosion and sediment controls**
- ⊕ **Reduced internal pollution by filtering out construction dirt and chemicals prior to occupancy**
- ⊕ **Reduced interior scent pollution for sensitive individuals by creating a scent-free room with isolated air conditioning system**



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Re-use

- ⇒ **Minimized remodeling of the existing building preserves the already built environment**
- ⇒ **Re-use of 99% of the existing building saves energy and materials**
- ⇒ **Intense site planning preserved the maximum amount of the existing site and entailed a minimum disruption of existing soils, plants, hard-scapes**
- ⇒ **More than 50% of the wood products used in construction are sourced from certified, renewable forest resources**
- ⇒ **Minimized disruption of trees and shrubs uprooted by new construction; will be re-used, re-planted throughout the site**
- ⇒ **Re-use of current parking lot light poles in reconfigured parking areas**
- ⇒ **Re-use of existing interior doors and fixtures to the maximum extent possible**
- ⇒ **Re-use of current entry doors in the new gathering space**

Recycle

- ⇒ **A new portion of the new parking lot will use recycled asphalt that will be re-processed from demolition of the current parking areas**
- ⇒ **10-20% of the new construction materials will be made of recycled material**
- ⇒ **Trash enclosure expansion will provide for recycle bins and materials separation**
- ⇒ **Contractors will divert more than 30% of construction waste to re-cycling centers and not direct it to landfills**

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