



Meeting Minutes
BSD – Sehome High School Sustainability Sub-Committee
May 1, 2017

Members Present:

Marty Atkins	Zach Ham
Jacqueline Brawley	Tim Jewitt
Steve Clarke	Michelle Kuss-Cybula
Ron Cowan	Mark Peterson
Pete Dawson	John Stimson
Patrick Durgan	Craig Snyder
Kurt Gazow	

Tim Jewett reviewed the sustainability elements that have already been incorporated into the building (see attached) and some of the constraints associated with adding certain sustainability elements at this point in the project (e.g. ground source heat pumps).

Mark Peterson talked about how we might be able to leverage Dawson's generous sustainability donation.

- Importance of identifying a specific sustainability element(s)
- Identifying an element(s) that is scalable
- Donor recognition
- Using local businesses and products
- Consider Dawson's donation as a challenge grant

The groups spent time brainstorming possible ideas:

- Solar array
- Anaerobic digester
- Battery storage
- Access to the detention facility for educational opportunities
- Zero waste
- Wind power
- Tunable LED lighting demo class
- Energy dashboard; interactive kiosk; 'have the building talk'
- Power generating exercise equipment
- Solar street/sidewalk
- Energy producing tiles
- Water catchment
- Water sculpture
- Interpretive signage
- Greenhouse

After discussion, the group decided that the top priority should be the installation of a solar array at the new Sehome, a first for the district. Secondary considerations included power generating exercise equipment and an energy dashboard/interactive kiosk.

Next steps include a final project decision by the end of May, contacting businesses, exploring grants and clarifying allowable donor recognition.

Meeting adjourned 4:05p.m.

SUSTAINABILITY GOALS

04.27.2017

STRATEGIES

SITE DEVELOPMENT

- Minimize site area disturbance and preserve trees to the greatest extent possible.
- Low- or zero-maintenance landscaping.
- Temporary irrigation system for establishment on a timed, water sensing controller.
- Use trails, views, and small gathering areas for small groups and outdoor laboratory study.

ENERGY

- Use building form, orientation, and program distribution to maximize load (and energy) reduction and improve thermal comfort.
- Plug load management with sweeping shut-off – all green outlets within the building will be swept off when areas of the building are not in use.
- Daylighting:
 - Building orientation, room arrangement, and glazing optimized for daylighting and energy savings.
 - Exterior sun shades to minimize heat gain and glare.
 - All regularly occupied spaces will be daylight, have views, and operable shade devices.
- Lighting controls:
 - Occupancy sensors.
 - Daylighting Controls for infinitely dimmable lighting.
- HVAC
 - Occupancy controls
 - Demand Control Ventilation
- 2 story building design minimizes envelope and impervious area
- Building Commissioning – the building will be certified by an independent third party to ensure the building functions as designed.
- Single structure to minimize envelope.
- All lighting (interior and exterior) is LED – super low energy – 0.6 watts / SF
- EUI (Energy Use Index) design to target is 28.9 kbtu/sf – average HS in Washington EUI is 68.
- Building energy use will be managed and monitored by an integrated system building wide.

WATER

- Domestic Water efficiency – reduce total potable water usage 30% beyond code required.

GENERAL DESIGN

- Management of building demolition diverting 75% of the construction waste from the landfill.
- Solid waste sorting stations – compost, recycling, garbage.
- Reusing the existing gym floor for student seating areas and wall treatment in the new school.
- Using materials that contain significant recycled content.
- Using Forest Stewardship Council Certified wood for all casework and gym floors.
- Using regionally sourced masonry products.
- Low VOC interior finishes including paint, carpet, and wainscot.
- Acoustic and audio enhancement of specific spaces to improve teaching and learning functionality.

User controls over temperature including a range of adjustability on the HVAC system and operable windows