

Sustainable Goals and High Performance Features (WSSP)

The Canyon View Elementary will comply with the Washington Sustainable School Protocol (WSSP). The WSSP has been implemented by OSPI as a way to comply with the state law which mandates high performance state facilities.

The draft Sustainable Mission Statement for Canyon View Elementary is: *“The design for the Modernization and Addition to Canyon View Elementary shall work to maximize staff and student performance through the following sustainable strategies: day-lighting, air quality, efficient use of space, energy efficiency, water conservation and quality acoustics.”*

The attendees of the Eco-Charette identified those Sustainable Building Goals that were important to the users of Canyon View Elementary:

- Day-lighting/Lighting Quality through Glare and Light Controls
- Air Quality, adequate volume of fresh comfortable temperature air
- Space, adequate space and efficient layout of space to allow quality performance
- Energy Efficiency, especially for HVAC and lighting systems
- Water conservation – Interior and Exterior
- Education for Sustainable Design, using the project to educate students about sustainability

The team created a list of important and attainable goals/credits from the WSSP score card:

Site - Selection & Use

- Sensitive Areas
- Greenfields
- Central Locations
- Joint use of On-Site Facilities
- Joint Use of Off-Site Facilities

Site - Transportation

- Public Transportation
- Bicycles (lanes & security)

Site - Stormwater Management

- On-Site Infiltration
- Stormwater (runoff) Treatment or Reduction

Site - Outdoor Surfaces

- Heat Island Reduction through Roof Design

Site - Outdoor Lighting

- Light Pollution Reduction

Site - Water - Outdoor Systems

- Scheduling Water Controller

Water – Indoor Systems

- Potable Water Use for Building Sewage reduction (45%)
- Potable Water Use Reduction (20% - 30%)

Materials – Waste Reduction & Efficient Use

- Site Waste Management – Waste Reduction
- Building Structure/Shell Reuse (50% - 75%)

Materials – Environmental Procurement

- Certified Wood (20%, 50%, chain-of-custody)
- Eliminate Ozone-Depleting Substances
- Region/Local Materials (20% manufactured 20% extracted)

Energy – Efficiency

- Superior Energy Performance

Energy - Commissioning

- Additional Commissioning

Energy - Management

- Energy Management

Indoor Environmental Quality – Electric Lighting Quality

- Electric Lighting Quality

Indoor Environmental Quality – Indoor Air Quality

- Low-Emitting Interior Finishes
- Ducted HVAC Returns
- Particle Arrestance Filtration

Indoor Environmental Quality – User Controls

- User Controls (operable windows)
- User Controls (temperature & lighting)

Extra Credit – Integrated Design

- Eco-Charrette

Extra Credit - Operations

- Life Cycle Cost Analysis

The following are the list of goals/credits from the WSSP score card that the team determined to be important and possibly attainable:

- Dedicated Community use of facilities
- Heat Island Reduction through Landscaping
- Construction Waste Reduction
- 75% Building Shell/Structure re-use
- Low-emitting materials, Furnishings
- Enhanced audio (sound system in classrooms)

The possible credits amount to a total of 9 credits, which might result in a final score of 46.

To summarize the preliminary score card indicates that the project should achieve a score of 37 just short of the minimum required score of 40. The probable list includes a total of nine points, of which at least three or more will need to be converted to “yes” in order to comply with WSSP requirements. Further verification of each item by the owner and design team is necessary. This process will continue through out the entire design process. The “yes” items will need to be finalized by the end of the Design Development Stage. Similarly the “yes” items will also be required in the implementation of the design, in the construction documents, and in the verification during construction.