Green Building Guiding Principles

1. BVSD has a strong commitment to sustainability and goals which are supported by Board policy and outlined in detail in the District's Sustainability Management System and Sustainable Energy Plan. This document provides an overview of relevant areas for building and construction on BVSD sites, but is not comprehensive. Please review the technical specifications for more detail.

2. All **new schools** and buildings will be designed to meet **LEED v. 4.1 GOLD standard**. In addition, new buildings will be designed as zero net energy or zero net energy ready, targeting a site EUI of 18.7 for elementary schools and 19.0 for secondary schools.

3. All projects will be designed to maximize LEED points for Indoor Environmental Quality. All projects will target a CO_2 (ppm) of <1200 for occupied spaces. (ASHRAE Standard 62 recommends carbon dioxide (CO_2) concentration 700 ppm above the outdoor concentration as the upper limit for occupied classrooms (usually around 1,000 ppm)).

4. Schools identified for **deep energy retrofits** will reduce existing average kBtu/SF to the following levels, which represent an average reduction of approximately 50%: § secondary schools: 40 kBtu/SF § elementary schools: 35 kBtu/SF.

5. **All other projects will target a 20% reduction in energy use, or target 55 EUI (whichever is less)**. Other upgrades intended to boost sustainability include installing LED lighting in some locations, particularly gyms; replacing old, inefficient boilers with efficient models, replacing windows and installing pipe insulation. All projects call for energy modeling as well as commissioning of mechanical systems upon completion to ensure all systems are performing optimally. **New roof structures will be designed to be solar ready.** All projects will design and plan for future integration of renewables.

6. All projects will push **water efficiency** beyond code requirements and will decrease water consumption by 5% Kgals. Focus on local stormwater management; plumbing improvements based on design standards; use of independent meters for irrigation meters; landscape design and green school yards to optimize evapotranspiration irrigation systems; and use efficient and life-cycle costing to evaluate design choices and options.

7. Where these alternatives exist, all projects should use **materials** that are durable, repairable, and reusable or recyclable; limit toxins and indoor air pollutants; are made with high postconsumer recycled content; and are resource and energy efficient in their manufacturing, use and disposal.

8. All projects will target a **75% diversion rate for construction waste**. BVSD will provide contacts and priorities for waste reduction, collection and removal.

9. All projects will consider access to the site by all modes of transportation, with preference for **sustainable modes of transportation** including biking, walking, carpooling and busing. When redesigning existing sites, where reasonable, we will increase accessibility for sustainable modes of transportation including biking, walking, carpooling and busing. During any project, where reasonable, will will add infrastructure to support electric vehicle charging and bicycling (e.g. bike racks).

10. Projects should **support our educational mission** by striving to incorporate teachable moments such as lessons about the construction work in the school and energy efficient or sustainable features; designing features that teach, such as a truth wall; and including student groups in the design and construction process.

11. **Creating outdoor classrooms, access to outdoors and access to natural light** supports our sustainability goals. It is BVSD's goal that by 2026 all elementary schools will have green schoolyards and outdoor learning spaces that may include but are not limited to gardens, nature play areas and access to natural habitat. All secondary schools will have increased outdoor seating and shaded areas. The use of landscape plantings that require treatment with systemic pesticides, especially neonicotinoids, or have been pretreated with these pesticides is not allowed.