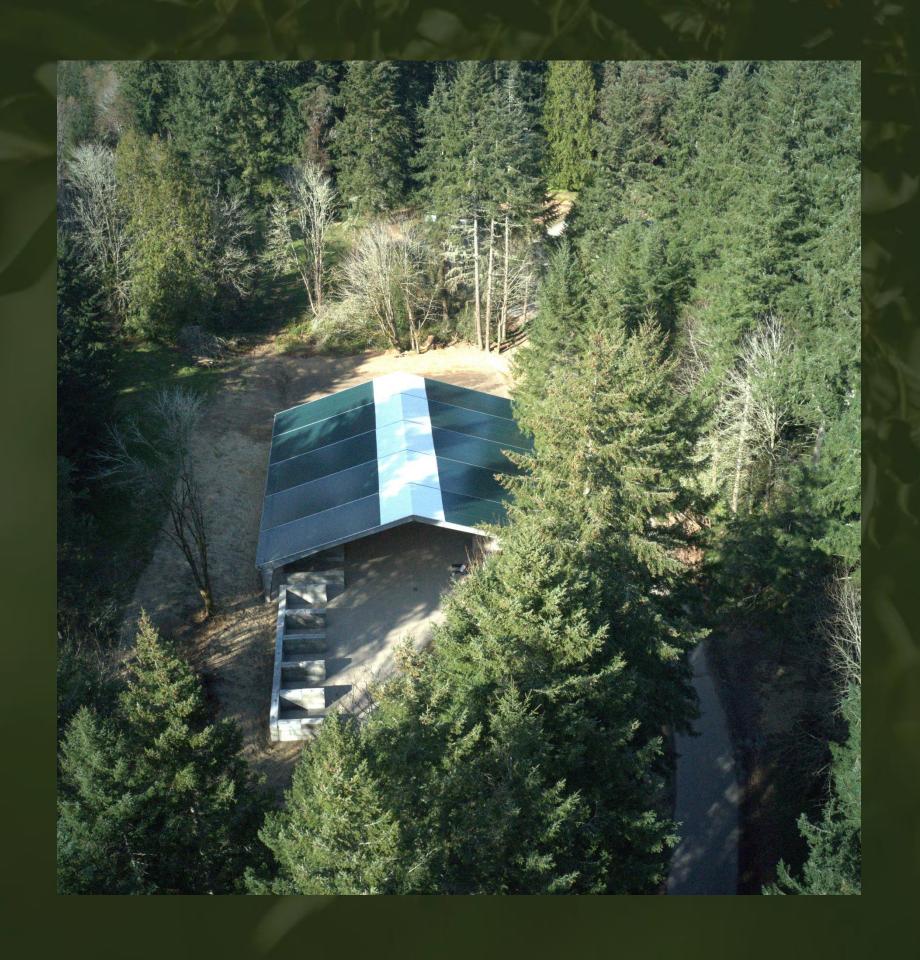




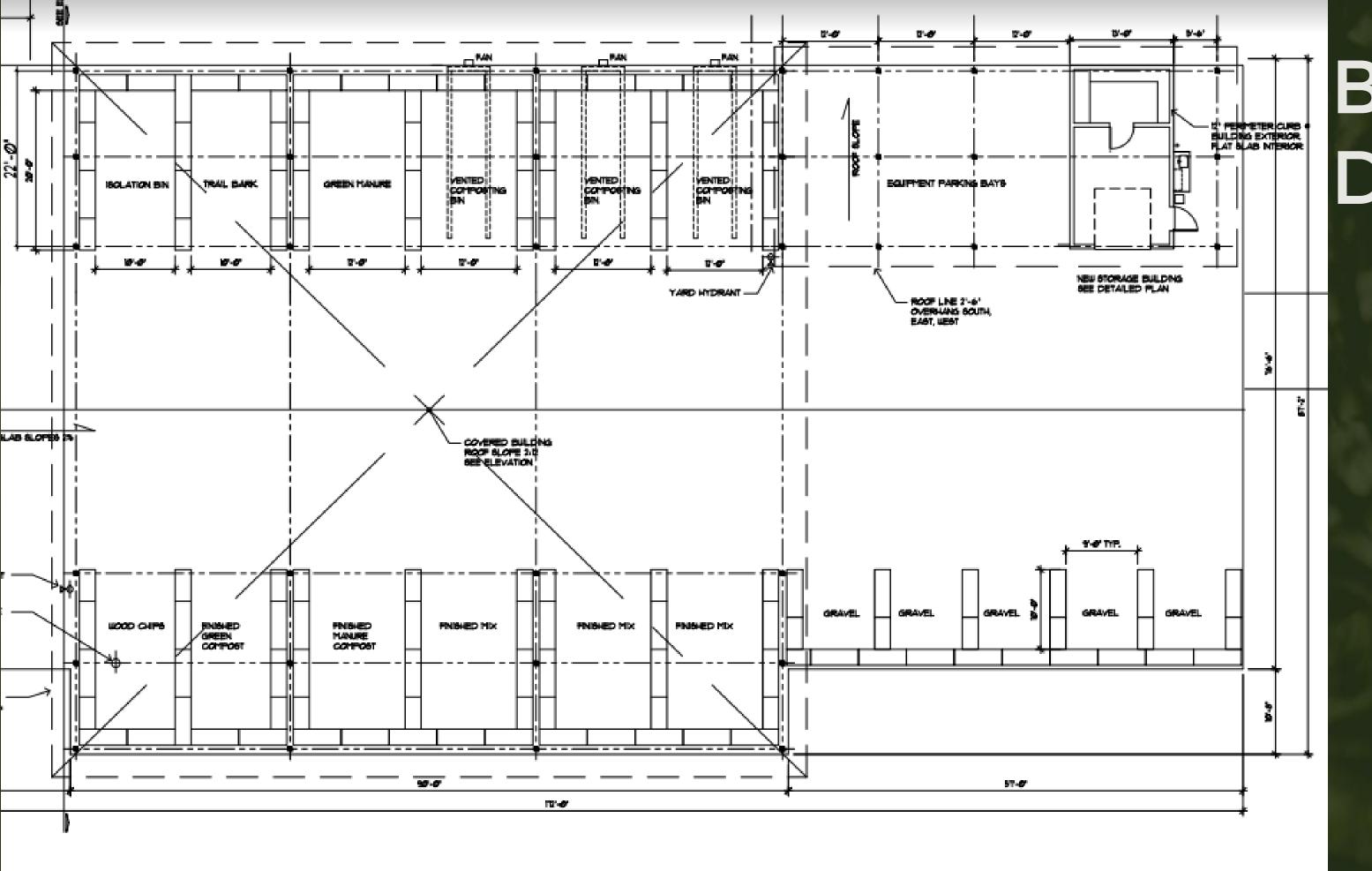
The Bloedel Reserve

- Horticultural Reserve on Bainbridge Island
- 65 acre campus estate
- Moved from fertilizers and pesticides to compost and compost teas 10 years ago
- Compost reduced pesticide and fertilizer use by 90% at the reserve



New Compost and Bulk Materials Building

- Building finished in 2021
- 3 bay ASP design saved \$1 Million
- Composts manure and green waste from grounds
- Compost used for disease suppression and nutrients



Building Design



The ASP Process

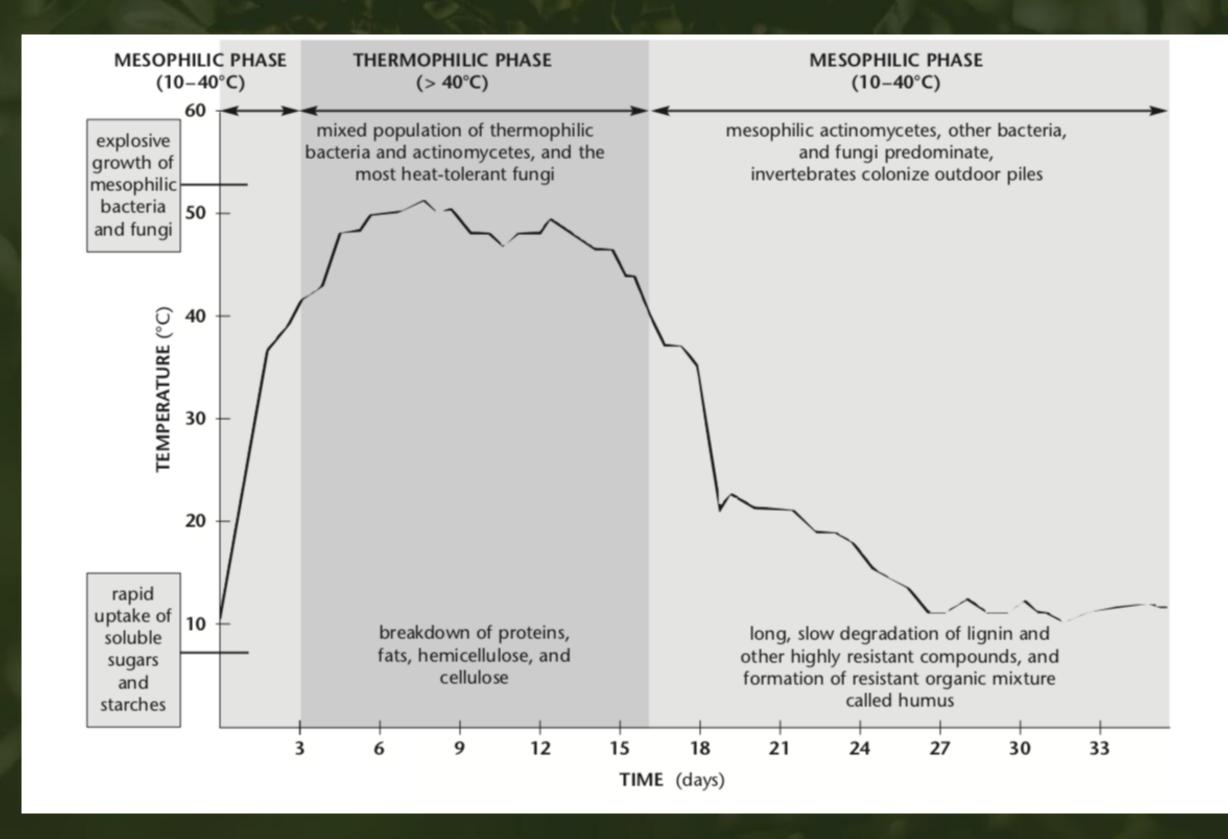
- Aerobic digestion
- Thermophilic temperatures
- Maintain O2 above 10-12%
- Optimum conditions for thermophilic composting







Thermophilic Composting Process



Source: Cornell University



Why Aerate Your Compost Pile?

- Reduces odor emissions
- Most influential factor in compost stability*
- Elevates oxygen levels
 Provides temperature control
- Enhances drying +/-

How much aeration should you use?

- Feedstock dependent (oxygen demand)
- Ranges from 1 cfm to 10 cfm per ton
- 1 cfm will cover oxygen demand
- Higher aeration rates mean more drying
- Decreases overall time for processing
- "the thermophilic phase lasted 13, 9 and 4 weeks for the aeration rates of 0.4, 0.6 and 0.9 L min⁻¹ kg^{-1dry wt}, respectively.*"

*The effects of aeration rate on generated compost quality, using aerated static pile method Waste Management Volume 29, Issue 2, February 2009, Pages 570-573



Other ASP Configurations

- Cone Composter
- Radial ASP
- Mass Bed
- Aerated Bins







About Green Mountain Technologies

- Our Mission:
- To Help Clients Compost Successfully
- Climate stability, waste reduction, nutrient cycling
- 30+ years Experience in the Composting Industry
- Based on Bainbridge Island, Washington



IN-VESSEL COMPOSTING
SYSTEMS

COMMERCIAL COMPOSTING FACILITY/DESIGN



For more information about Green Mountain Technologies



Please contact us: $mbb@compostingtechnology.com \\ sales@compostingtechnology.com \\ 800-610-7291$

