

Preliminary Sustainability Evaluation Matrix

Arlington High School

June 12, 2018

Sustainability Subcommittee
Preliminary Evaluation Matrix (+ / 0 / -)

CRITERIA	ALT 1	ALT 2	ALT 3	ALT 4	Key Considerations/Differences
Energy/Carbon <ul style="list-style-type: none"> · Net zero (maximize onsite energy production/minimize use) · Planning for a future free of fossil fuels · Living Building Challenge 	0	0	0	-	Geothermal heat pump potential Rooftop solar energy potential
Passive Design <ul style="list-style-type: none"> · For maximum energy efficiency (EE) · For resiliency · Easy to maintain level of EE over time 	-	+	++	0	Total exterior wall area: rank is 1, 4, 2, 3 (most to least) All new vs. some existing exterior walls
Waste flow management <ul style="list-style-type: none"> · Easy to manage separation & collection · Reduce/eliminate waste (organics, disposable tableware, etc.) 	0	0	0	0	All options expected to be similar Alt. 4 may have some aesthetic issues wrt placement
Building as teaching tool <ul style="list-style-type: none"> · Green spaces & biophilia · Grow some of our own food · School as part of the curriculum · Preparing students for green careers 	0	0	0	-	All options expected to be similar except Alt. 4 wrt options for outdoor space/courtyards; Alt.1 may be slightly better than 2 & 3.
Healthy indoor environment <ul style="list-style-type: none"> · Building materials · Furniture · Fresh air, but not being wasteful of energy · Acoustics 	0	0	0	-	Proximity of classrooms to Mass Ave.
Transportation <ul style="list-style-type: none"> · Maximizes use of bike path and public transit · EV-ready parking · Designed for autonomous vehicles 	0	0	0	-	Alt. 4 may result in greater congestion & idling at pickup/drop-off