

# Climate Change Resiliency and Sustainability Building Development Guidelines

## Green Building

### Healthy & Efficient Green Buildings

- Projects should set a goal of achieving LEED Platinum or better. All projects must at minimum achieve LEED Silver.
- Projects should include strategies which reduce the use of natural resources. Projects should use materials that are plentiful and renewable
- Projects should include essential support systems that allow extended sheltering in place and include resilient energy resources during an extreme weather event or extended disruption of utility services.

PARTNER PUBLIC HEALTH DEPT.  
"HEALTHY GREEN COMMISSION"  
"HEALTH ACTION PLAN"  
ENTERPRISE - CREATIVE SUBSIDIES

### Greenhouse Gas Reduction

- Projects should prioritize non-mechanical energy efficiency solutions including increased building insulation and natural ventilation.
- Mechanical energy efficiency measures should include high performance heating, cooling, and hot water systems, energy recovery ventilation, and LED lighting.
- Projects should strive for net zero or net positive energy use. These strategies would reduce the amount of energy consumed by the project and/or increase the energy the project is able to produce. These systems include building-integrated or on-site PV and other on and off site clean and renewable energy sources.

### Higher Temperatures & Heat Events

- Projects should include strategies which reduce heat exposure and heat retention in and around the building.
- If appropriate to the building use, projects should include a cool/warm community room that can accommodate local residents during an extreme weather event or extended disruption of utility services.

### Intense Precipitation & Stormwater Flooding

- Projects should include strategies that reduce wastewater and stormwater discharge.
- Projects should include strategies to reduce the risk of stormwater flooding to essential building program. These strategies should elevate critical uses and building systems above flood path.

### Coastal Storms & Sea Level Rise

- Projects should include strategies to reduce the risk of coastal flooding by elevating critical uses and building systems above flood levels.

### Public Health

- Projects should include healthy indoor environments that are free of building contaminants, utilize high quality air filters, and are supplied with plenty of clean fresh air.



# Climate Change Resiliency and Sustainability Building Development Guidelines

## Green Site Infrastructure

### Greenhouse Gas Reduction

- Projects should include strategies which prioritize walking, bicycling and public transit over personal vehicle use.
- Projects should limit parking to what is necessary for new uses and Dudley Square to thrive, and provide parking for no and low emission vehicles and electric vehicle charging stations.

- PROJECTS SHOULD INCLUDE STRATEGIES  
- TRADE OFF EV FOR LESS PARKING

### Higher Temperatures & Heat Events

- Projects should include strategies to reduce urban heat island conditions at the site, and in the surrounding neighborhood. These strategies should increase shade and decrease heat absorption.

- NEW BUILDING & OLD BUILDINGS  
- GREENING PARKING LOTS

### Precipitation & Stormwater Flooding

- Projects should include strategies to both mitigate the impact of stormwater flooding to the site, and reduce the sites contribution to stormwater flooding throughout the neighborhood. These strategies should increase the ability of the site to absorb and retain water.

- INCREASED ABILITY ABSORB & RETAIN WATER

### Coastal Storms & Sea Level Rise

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Table Facilitator Name : John



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- LEED SILVER IS REQUIRED OR BETTER  
- RENEWABLE MATERIALS

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- HIGH PERFORMANCE / LOW COST  
- NET ZERO IF POSSIBLE (NET POSITIVE)

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- ADD MORE STREET TREES  
- TEMPERED PUBLIC SPACE  
- MORE SHADES

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- sharing excess energy produced on site with other buildings in area.

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+ add trees on the parcel itself  
+ preserve <sup>existing</sup> large healthy trees.  
+ provide space for trees to mature / all base green.  
+ credit to project that max. open space & permeable space

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- outdoor spaces must be away from traffic / roads / air pollution -  
- surface mat. for playgrounds be safe for children. / min. injury  
- constr. / post construction protection from dust & constr. debris



# Climate Change Resiliency and Sustainability Building Development Guidelines

## Green Site Infrastructure

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new proposal must minimize parking to min. parking ratio.

### Higher Temperatures & Heat Events

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day time keep in shade & not increase shade in mind. (by bldgs + trees)  
\* trees on sidewalk

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Table Facilitator Name: Pratima Courtney



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DEVELOPER / OPERATOR

COST TRADE-OFF ON A TIME LINE  
IRRELEVANT

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CHALLENGE - <sup>SOME</sup> COMMUNITY MEMBERS WILL <sup>WORRY</sup> ABOUT PARKING  
CHICKEN + EGG - LIGHT RAIL INVESTMENT  
CITY SHOULD ACT LIKE A CITY - 2 HR PARKING  
ARE THERE BUSINESSES DON'T NEED PARKING?  
NEIGHBORHOOD SCALE RETAIL.

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ACCESS - DEMONSTRATE  
"BEST PRACTICES"

TREES ON WASHINGTON STREET DAMAGED / MISSING / BROKEN  
WHAT IS THIS THE PUSH BACK? % LOT COVERAGE

STEWARDSHIP / MAINTENANCE CLAUSE

community benefit  
MANTA POOL

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