SEED

Mixed-Use Multifamily

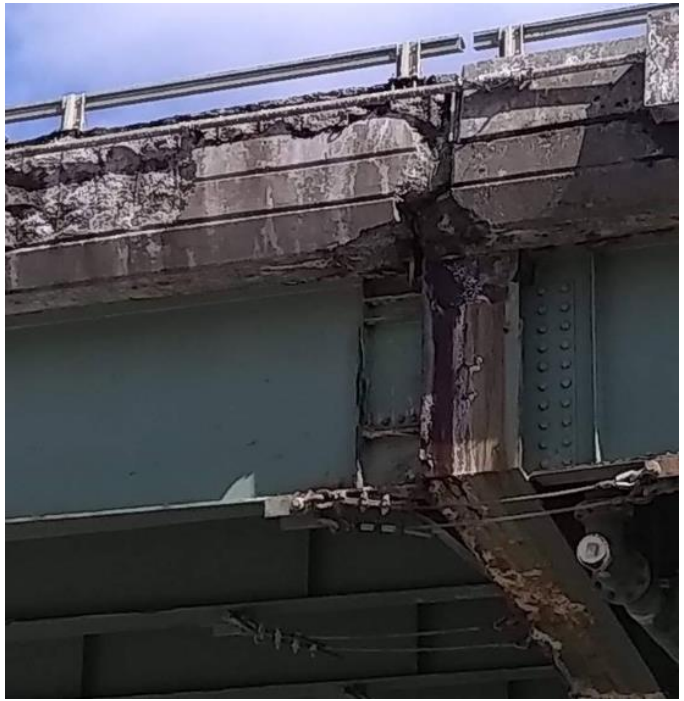
SYRACUSE
ENERGY
EFFICIENT DESIGN

State University of New York College of Environmental Science and Forestry,
Syracuse University

Syracuse, NY – Unwell Community

Existing Conditions

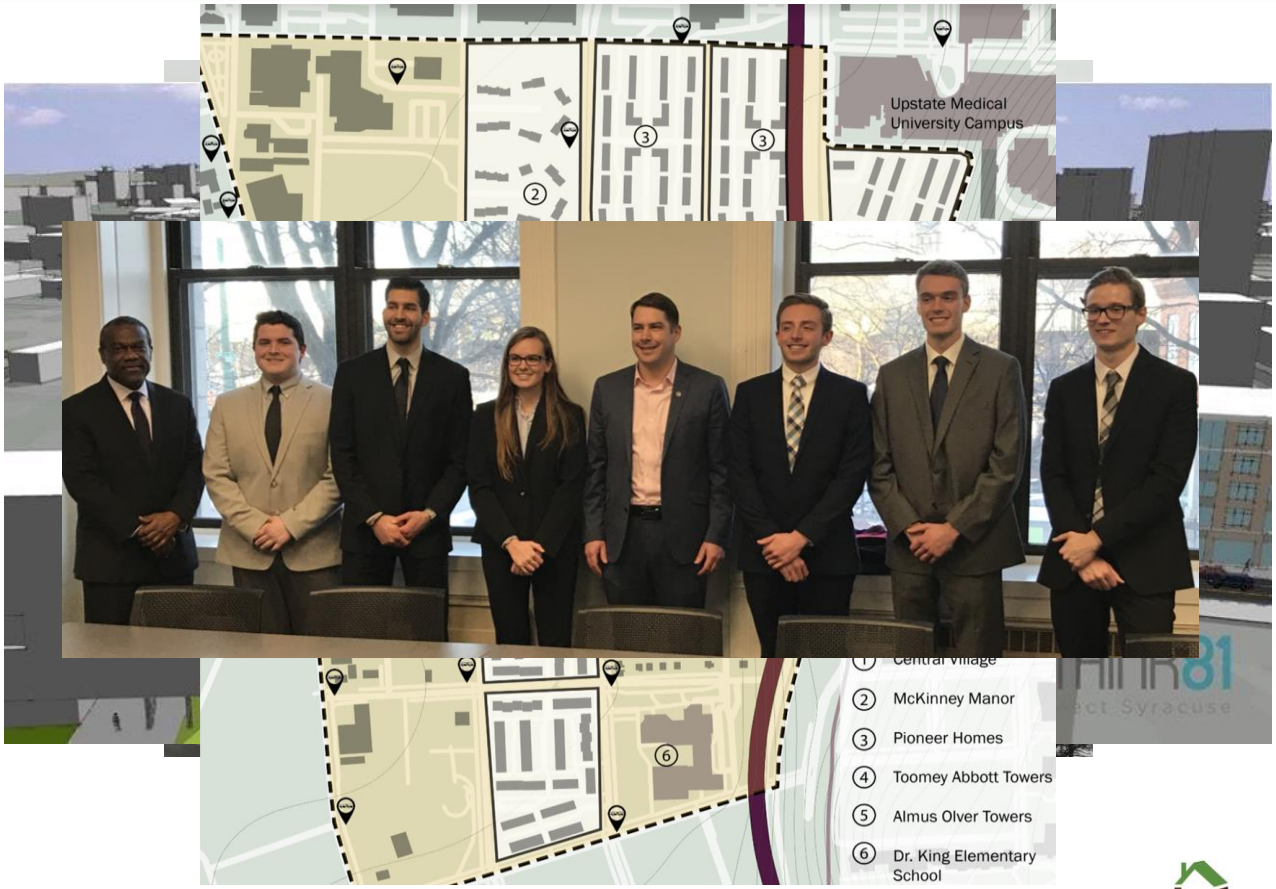
McKinney Manor Home



Interstate 81

Revitalization Plans

1. Rethink 81
2. Syracuse Surge
3. Syracuse Housing Authority Redevelopment



Meet the Team

Taite

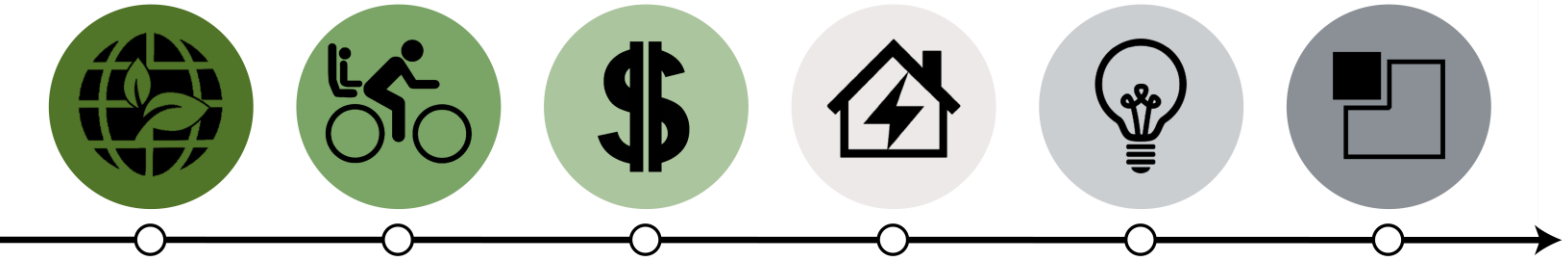
SHA

SYRACUSE HOUSING AUTHORITY

ARGUS

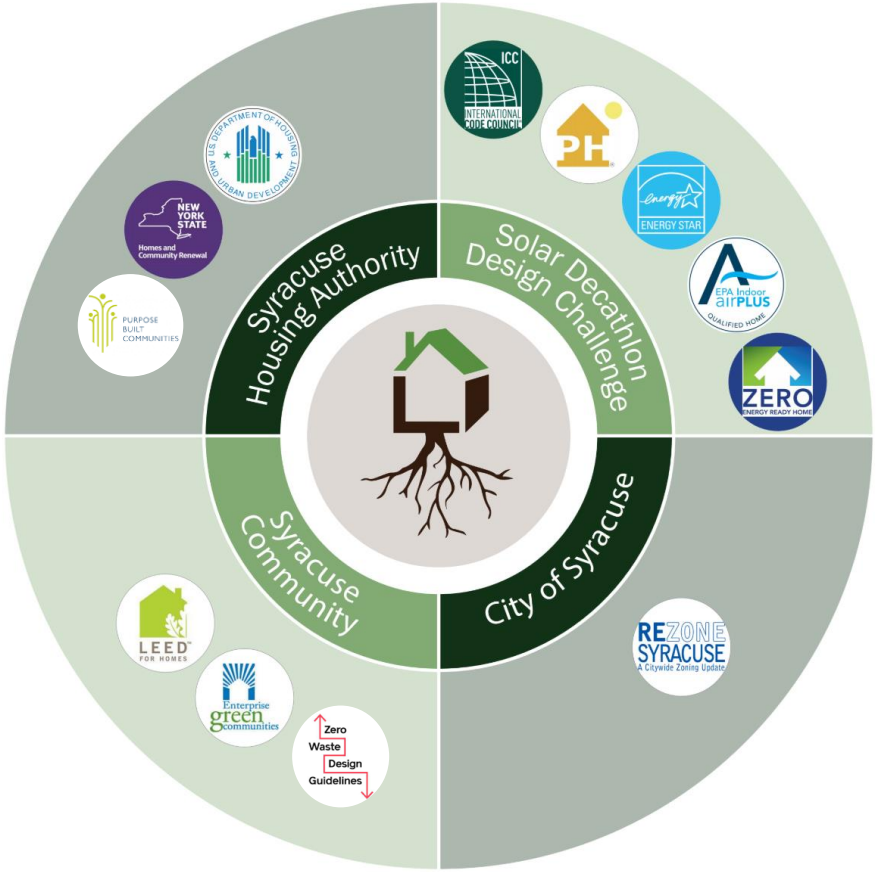
g+king ARCHITECTS

Design Goals



Codes and Standards

PURPOSE BUILT COMMUNITIES

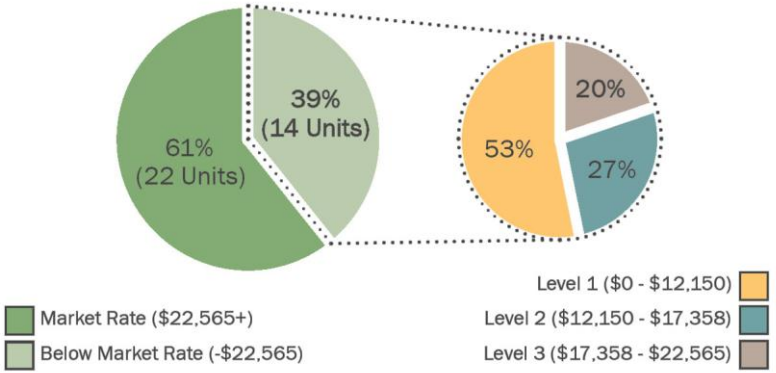


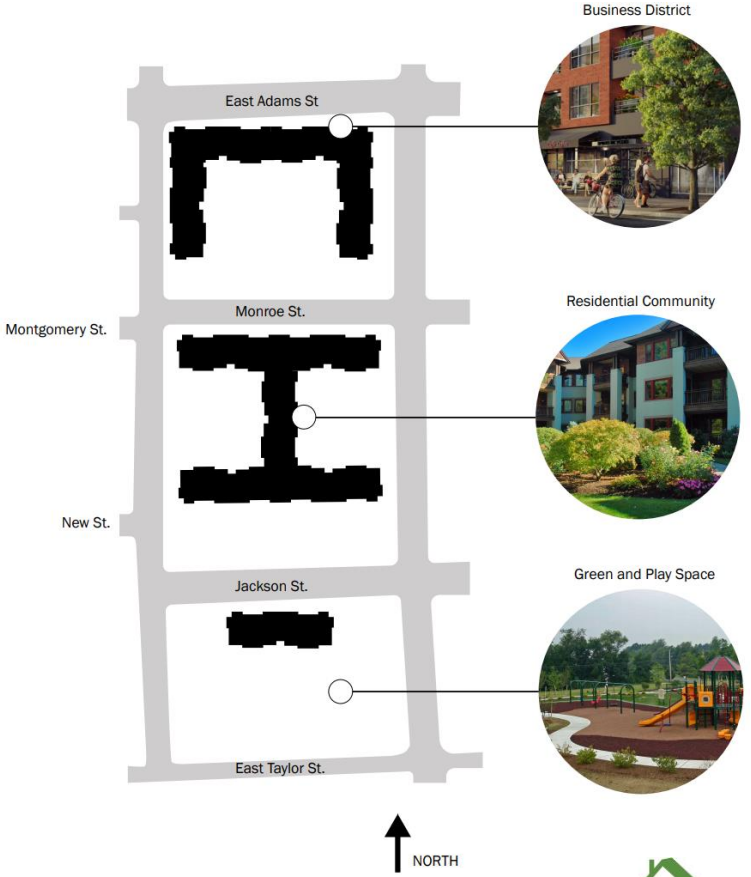
Enterprise green communities®

REZONE SYRACUSE
A Citywide Zoning Update

Intended Occupants

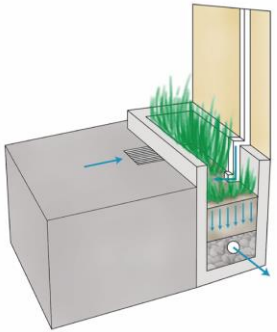
Marketing Strategies



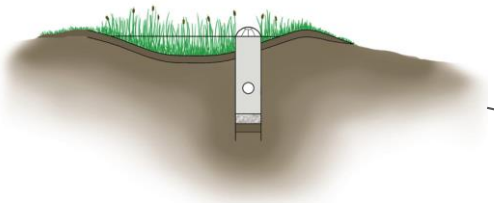

Business District
East Adams St
Residential Community
Monroe St.
Montgomery St.
New St.
Green and Play Space
Jackson St.
East Taylor St.
NORTH

Site Plan

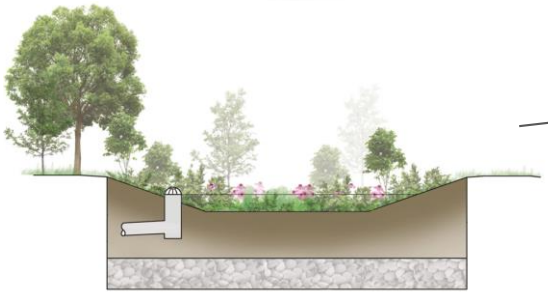
Stormwater Planter



Bioswale



Rain Garden



Site Plan

Floors 2 - 5

1 Bedroom - 711 sf.
2 Bedroom - 936 sf.

Two Bedroom Unit
One Bedroom Unit
Shared Space/Ammenities
Commercial Space
Mechanical Space

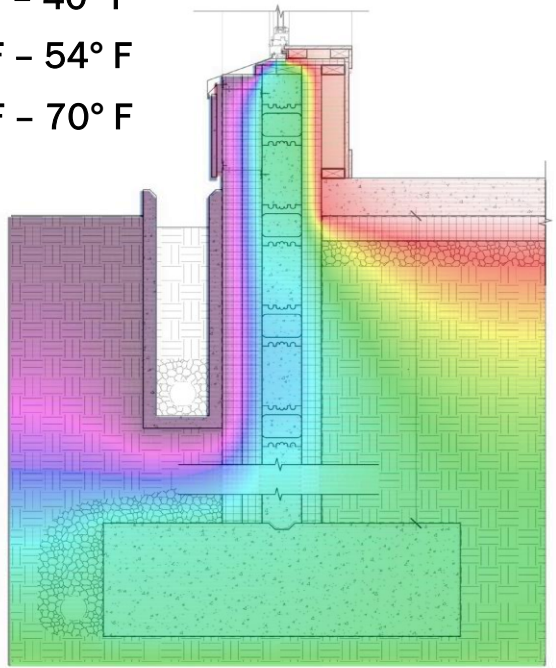
Lobby Interior

Ground Floor

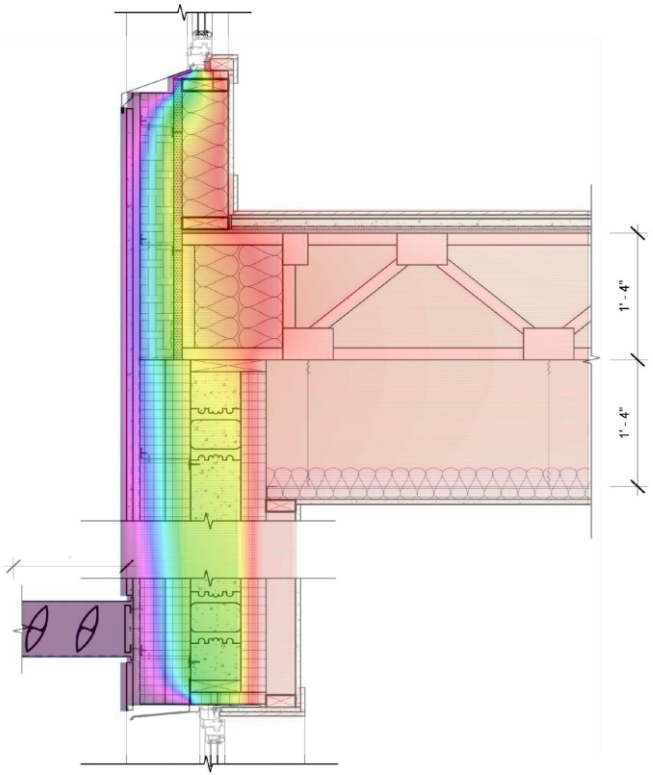
Two Bedroom Unit | One Bedroom Unit | Shared Space/Ammenities | Commercial Space | Mechanical Space

Commercial Space

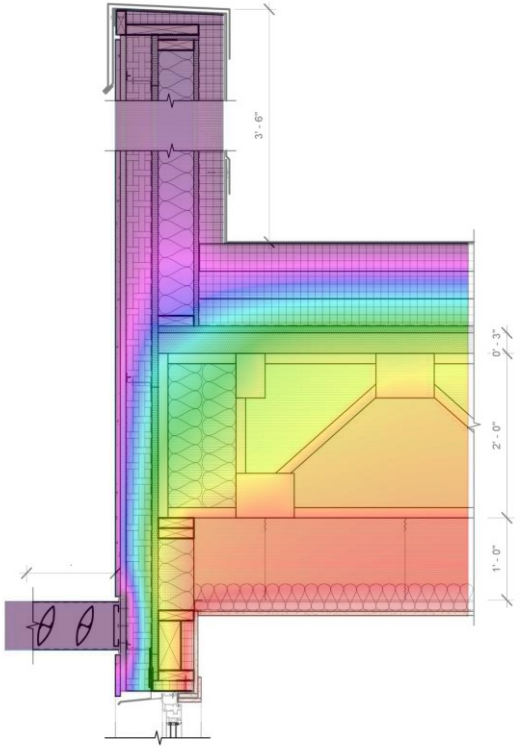
0° F – 12° F
12° F – 30° F
30° F – 40° F
40° F – 54° F
55° F – 70° F



Foundation Detail



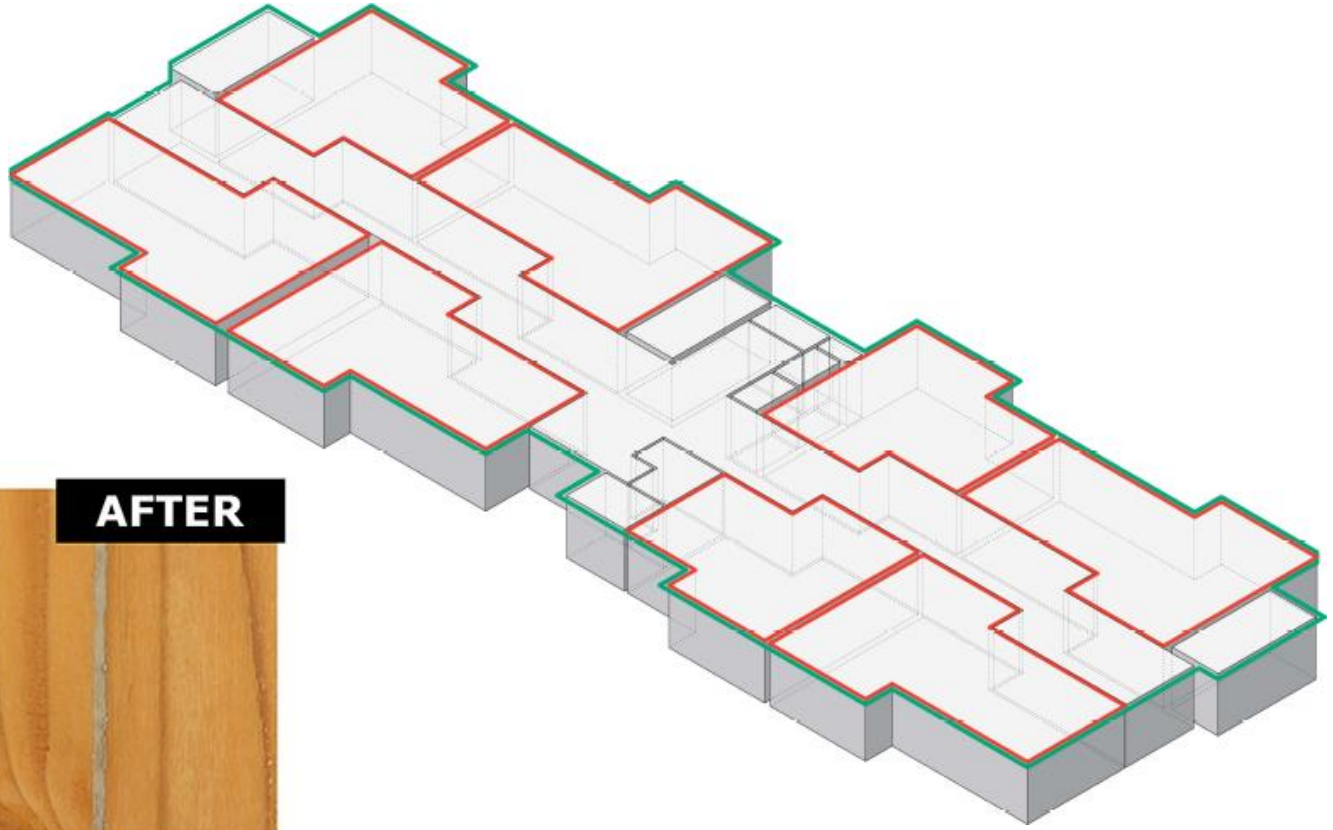
First Floor to Second Floor Connection

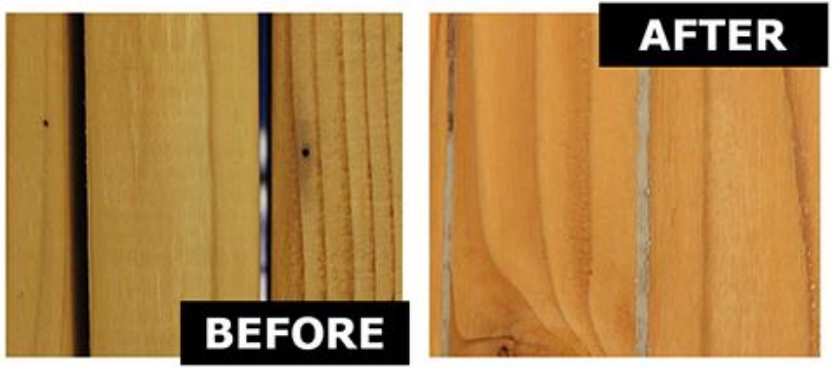


Parapet Detail

Air Sealing and Compartmentalization

PHIUS+ Multifamily	
Whole-Building air tightness:	≤ 0.050 CFM @50 Pa /sqft of building shell
Dwelling unit compartmentalization:	0.30 CFM @50 Pa / sqft of dwelling unit shell





Source Control

Paperstone Countertops

-Made from Post-Consumer Recycled Paper
-Recyclable Material

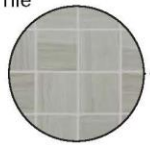
Dwyer Cabinets

-Made from 60% Recycled Content
-Low VOCs
-Immune to Pests and Bugs

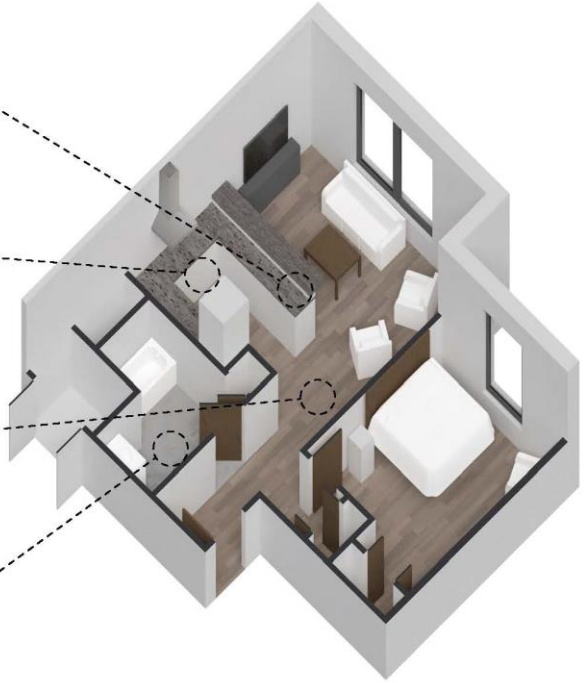
Armstrong Wood Laminate Flooring

-Made from Post-Consumer Recycled Paper
-Recyclable Material
-No VOCs

Java Joint Porcelain Tile

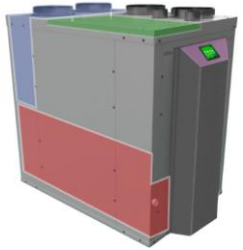


-Use Post Consumer Recycled Content
-Local Sourcing
-Tile Specific Recycling Program



RenewAire HE Series ERV

- Dual Premium Efficiency Motors
- MERV 13 FIlter
- AHRI Certified



CERV II ERV

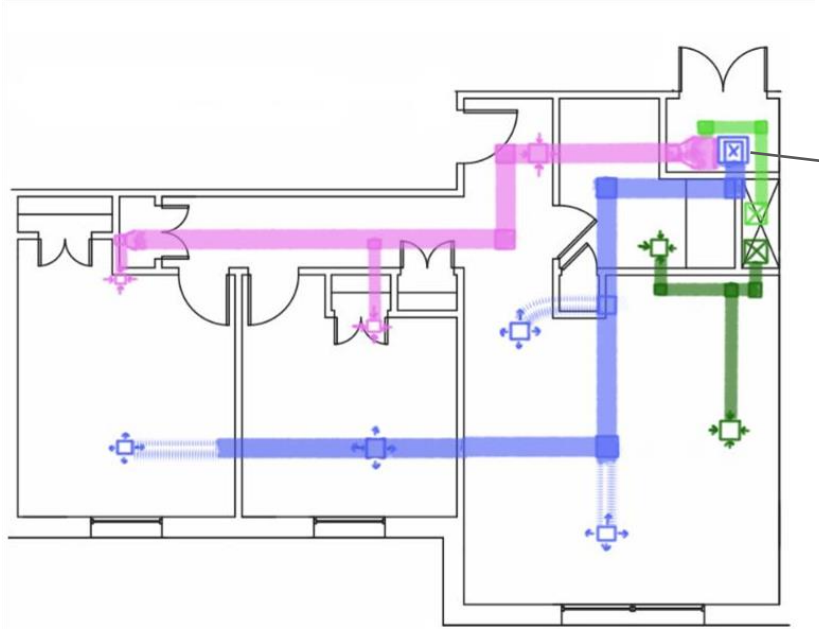
- Smart Control
- Monitoring
- Heat Pump

AEROSEAL®
Duct Sealing From The Inside

Duct Sealing

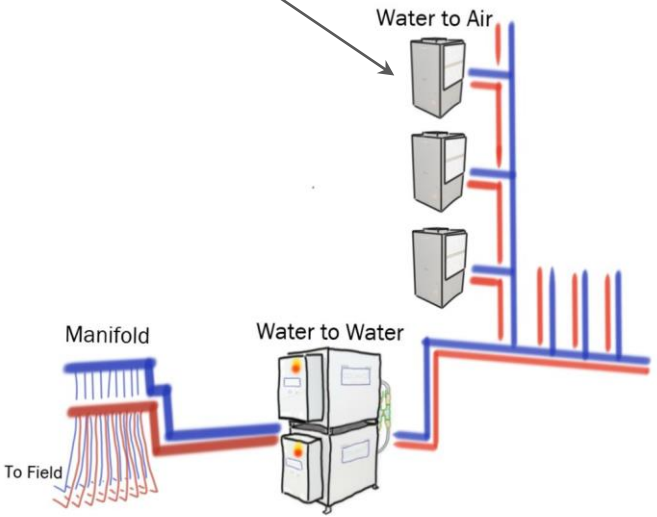
- Simple Process
- Extremely Low VOC Sealant
- Longevity

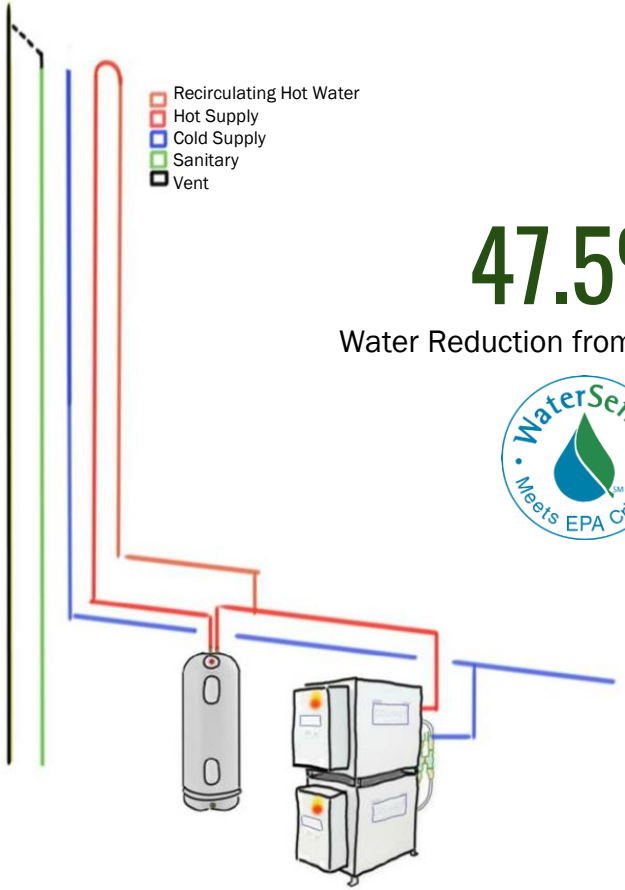
Space Heating and Cooling



Daikin SmartSource

- ¾ to 1 ton system

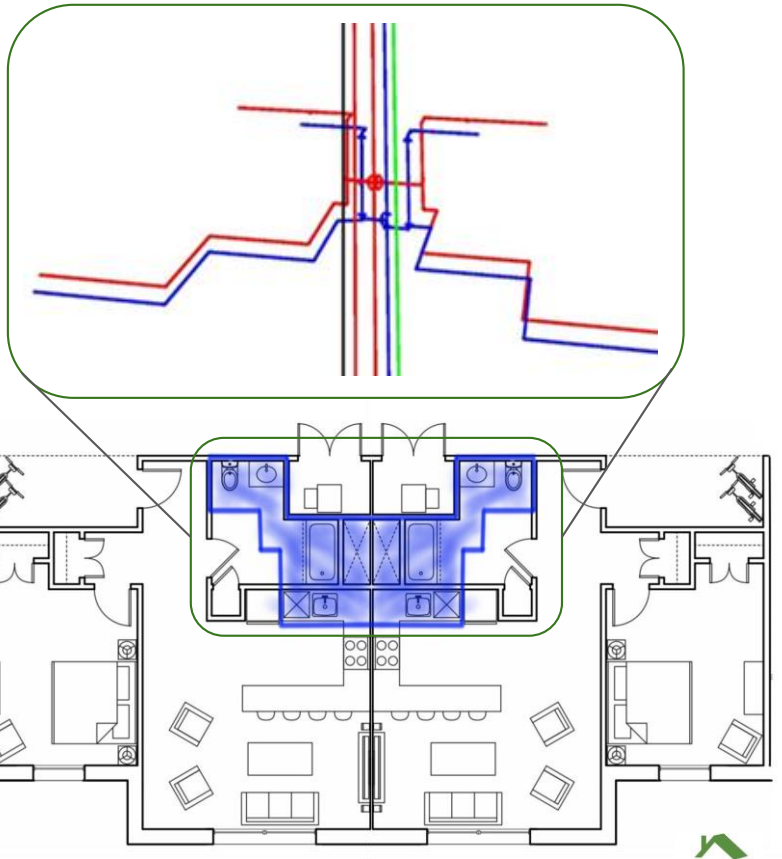




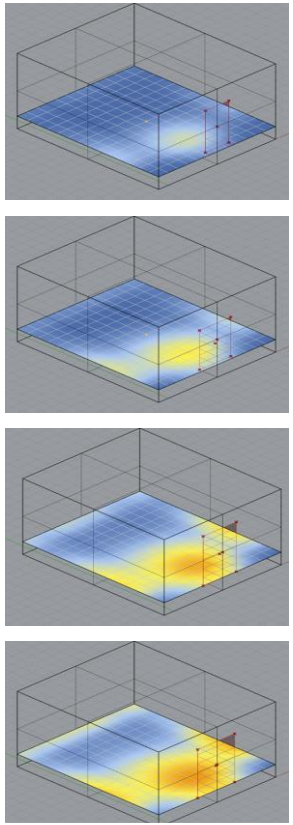
47.5%

Water Reduction from LEED Baseline

WaterSense Meets EPA Criteria

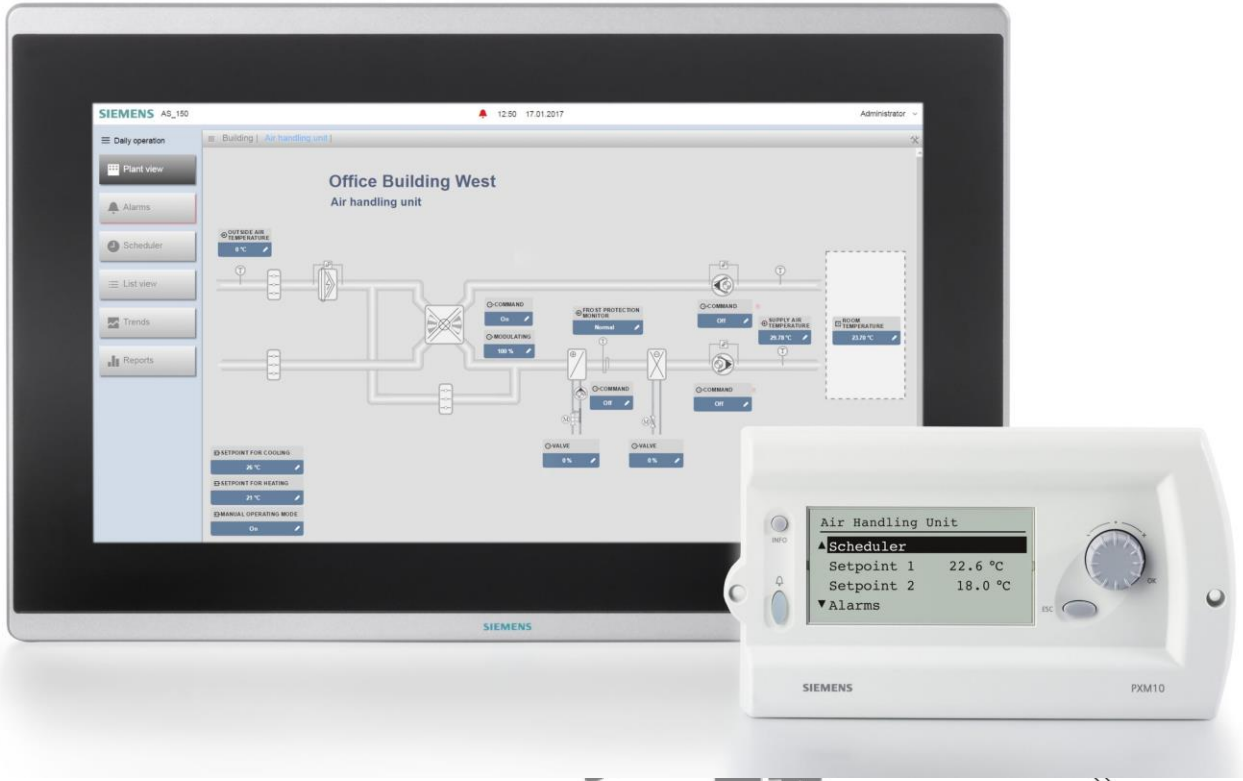


Grasshopper DIVA Simulation

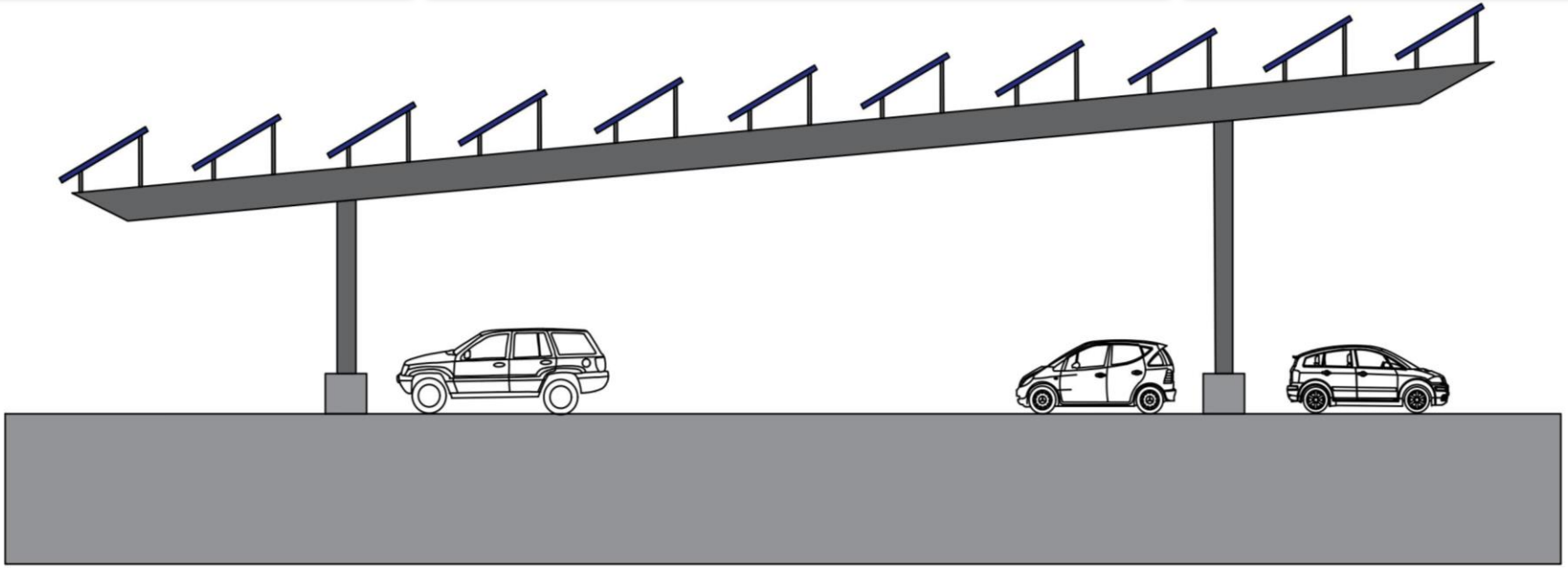


Sensored Occupancy-Zoned Lighting System

Demand Side Management



National Grid

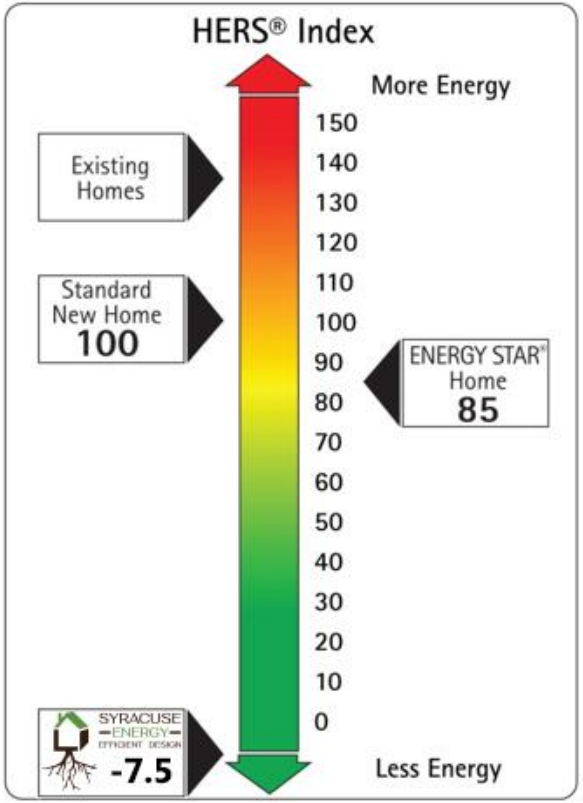


Solar Car Port

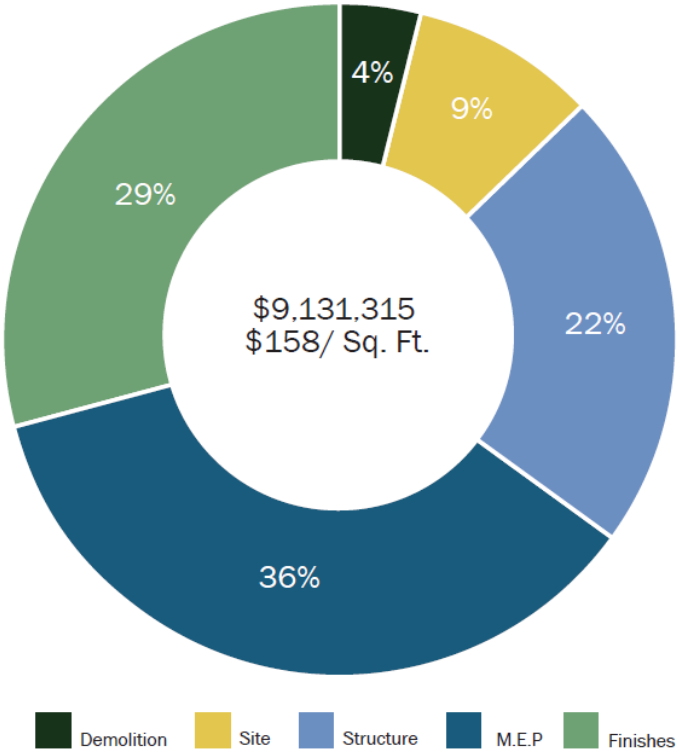
- Size: 208.8 kw
- Production: 253,976 kWh/year
- Cost: $750,000
- Cost With Incentives: $386,920 ($1.85/Watt)

TRACE 3D Plus

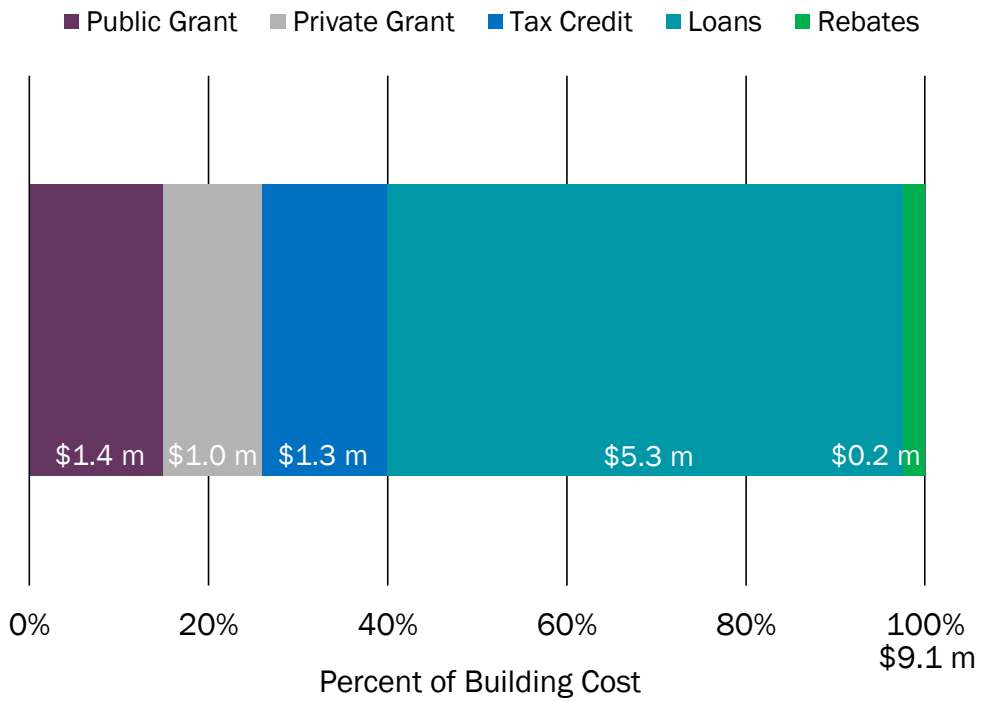
Net Source EUI:	33.6 kBTU/ft^2
Net Site EUI:	10.6 kBTU/ft^2
Annual Electric consumption:	487,761 kWh
Annual Electric production:	335,872 kWh
Annual Water consumption:	11.38 million gal.



SEED Building Cost



SEED Financing



Community Impact

27	City blocks remade
1000+	Public housing units transformed
118	Acres covered