THE MONTAGE By Montage Builders Northern Forest







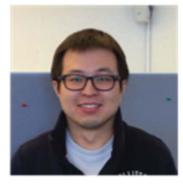














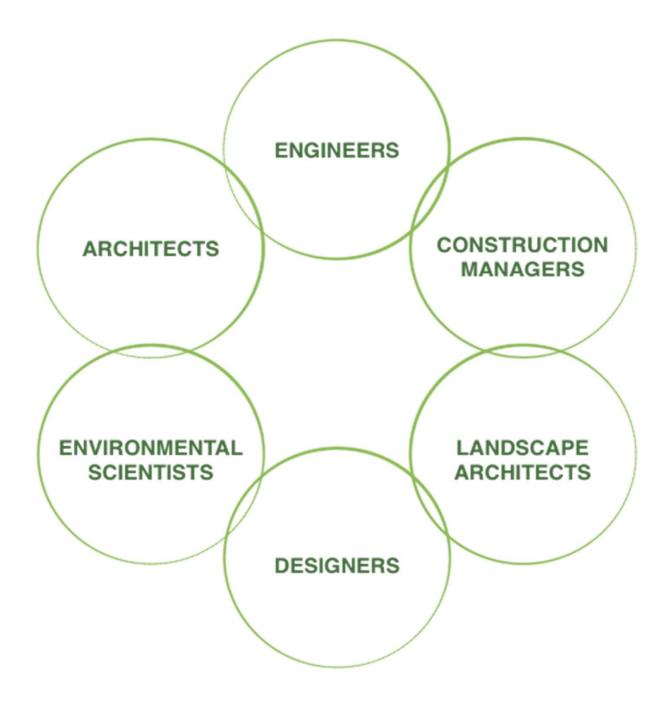












Weighted Decision matrix

Superior Wall Foundation													
Weight:	14.9	14.2	14.7	15.2	13.9	13.8	10	15.3	11.4	11.7	14.1	13.7	13.9
Attribute:	Design Challenge	Budget	Build- ability	Indoor Air Quality	Water MGMT	Visit- ablity	Net-Zero	Climate Change	Local	Recycled/ Recycl- able	Dur- ability	Resili- ence	No/Low Environ- mental Toxicity
David	97%	100%	100%	100%	100%	0%	95%	90%	85%	100%	100%	95%	70%
Jacek	95%	100%	100%	90%	100%	0%	100%	80%	75%	100%	100%	95%	89%
Gamika	90%	100%	95%	100%	100%	0%	90%	25%	15%	100%	100%	90%	73%
Jeff	95%	98%	100%	92%	100%	0%	100%	80%	75%	100%	100%	95%	65%
Zhauzhou	95%	99%	90%	95%	100%	0%	95%	52%	58%	100%	100%	95%	62%
Sarnai	94%	100%	100%	100%	100%	0%	100%	80%	75%	100%	100%	95%	80%
Mike	90%	100%	92%	89%	100%	0%	90%	25%	15%	100%	100%	90%	87%
Adam	87%	98%	100%	90%	100%	0%	100%	80%	75%	100%	100%	95%	90%
Talia	95%	99%	100%	95%	100%	0%	95%	52%	58%	100%	100%	95%	90%
Elizabeth	95%	100%	100%	100%	100%	0%	100%	80%	75%	100%	100%	95%	87%
Brent	90%	100%	88%	100%	100%	0%	90%	25%	15%	100%	100%	90%	95%
Andrew	95%	98%	100%	90%	100%	0%	100%	80%	75%	100%	100%	95%	89%
PJ	95%	99%	97%	95%	100%	0%	95%	52%	58%	100%	100%	95%	92%
Michelle	95%	98%	99%	90%	100%	0%	100%	80%	75%	100%	100%	95%	90%
Total %:	95%	99%	97%	95%	100%	0%	95%	52%	58%	100%	100%	95%	92%
Score:	14	14	15	14	14	0	10	8	7	12	14	13	9





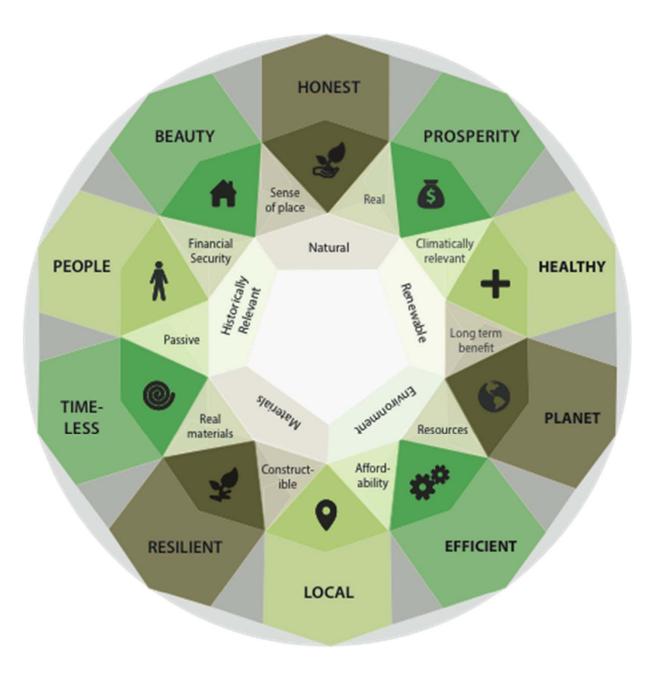
Design and build **regionally appropriate** and truly **sustainable** homes for our community

Holistic thinking and collaboration

Local Relevance







Performance Goals // HERS Index 50 or less







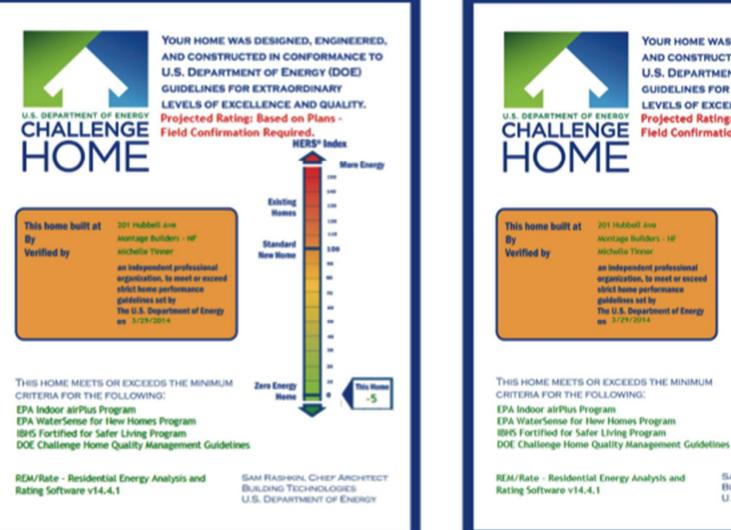
The Montage



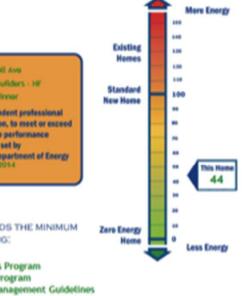
Focus first on one hundred-plus year components

Reduce the building's load while optimizing rapidly evolving "plug and play" mechanical systems.

The Montage The Montage No Solar



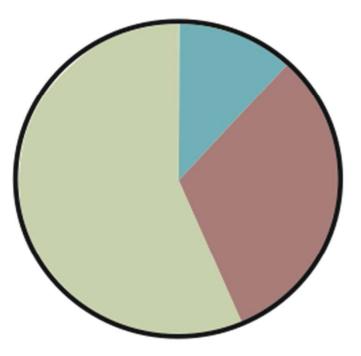
YOUR HOME WAS DESIGNED, ENGINEERED, AND CONSTRUCTED IN CONFORMANCE TO U.S. DEPARTMENT OF ENERGY (DOE) GUIDELINES FOR EXTRAORDINARY LEVELS OF EXCELLENCE AND QUALITY. Projected Rating: Based on Plans -Field Confirmation Required. HERS* Index



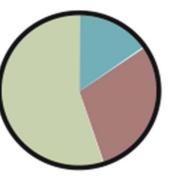
SAM RASHKIN, CHEF ARCHITECT BUILDING TECHNOLOGIES U.S. DEPARTMENT OF ENERGY

Energy Use Distribution

National Average



The Montage

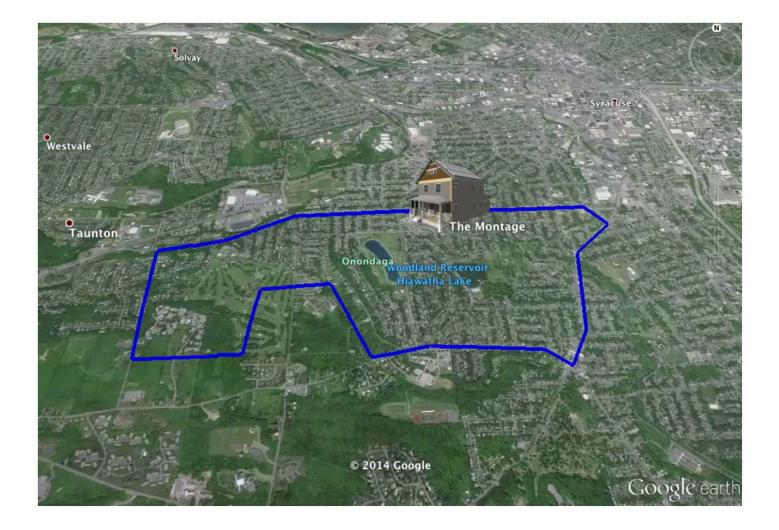




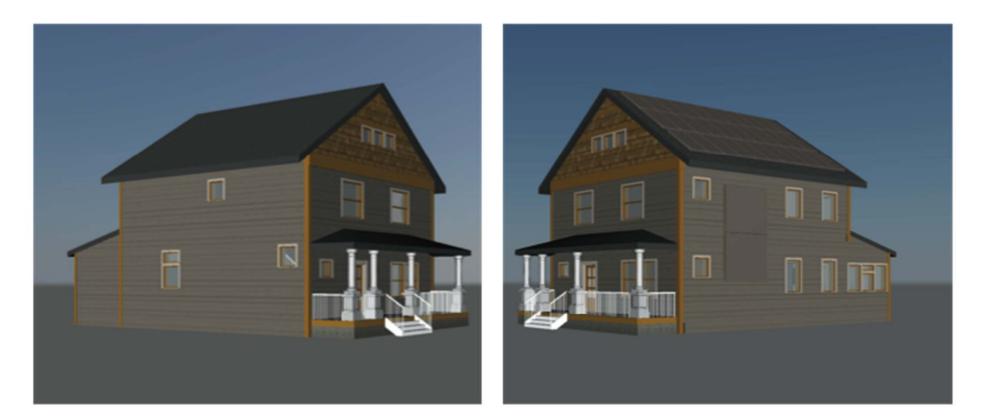
Syracuse, New York Strathmore Neighborhood



201 Hubbell Ave., Syracuse, NY



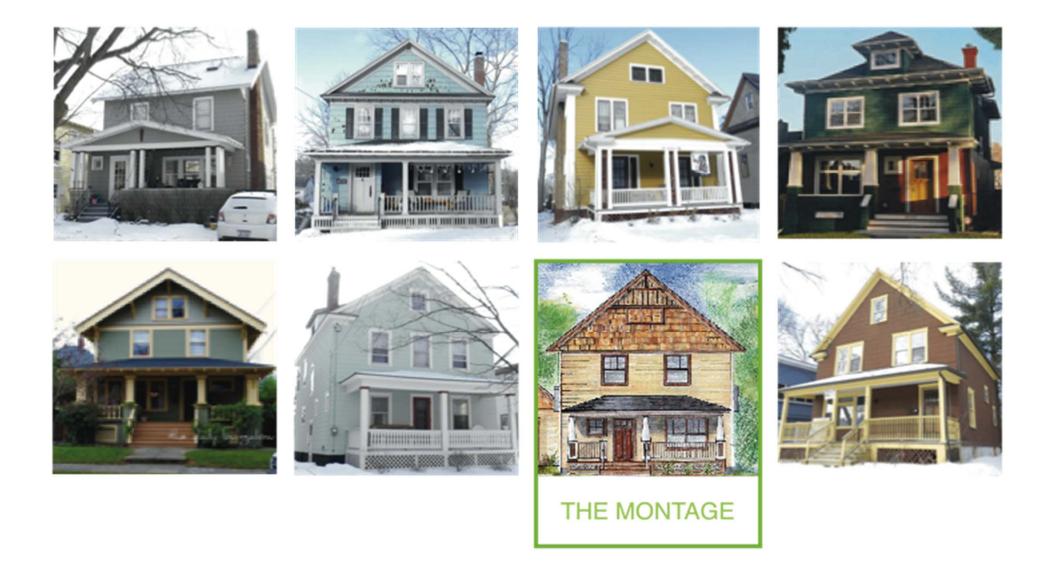
The Montage



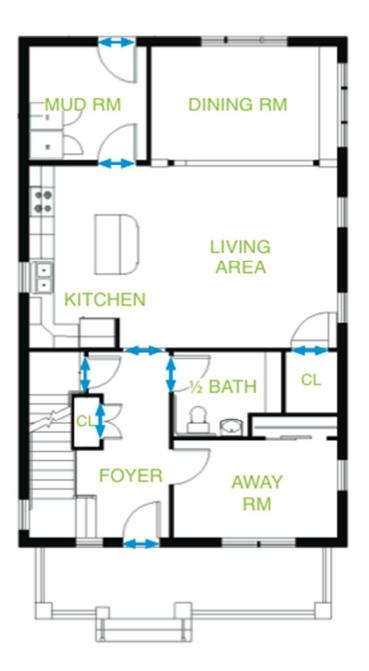
NORTH

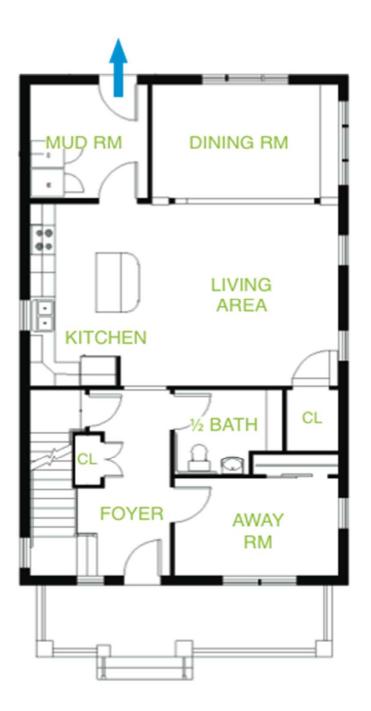
SOUTH

Pattern Language





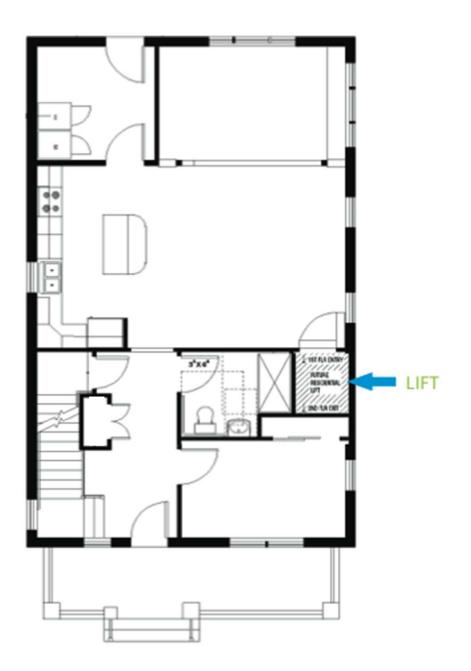


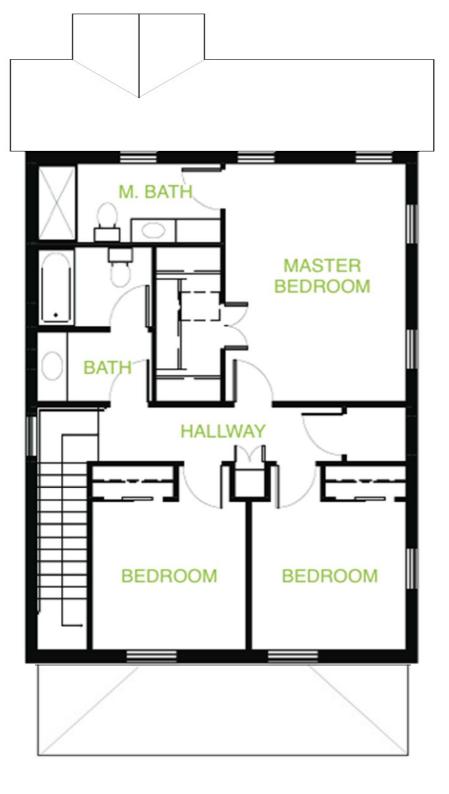


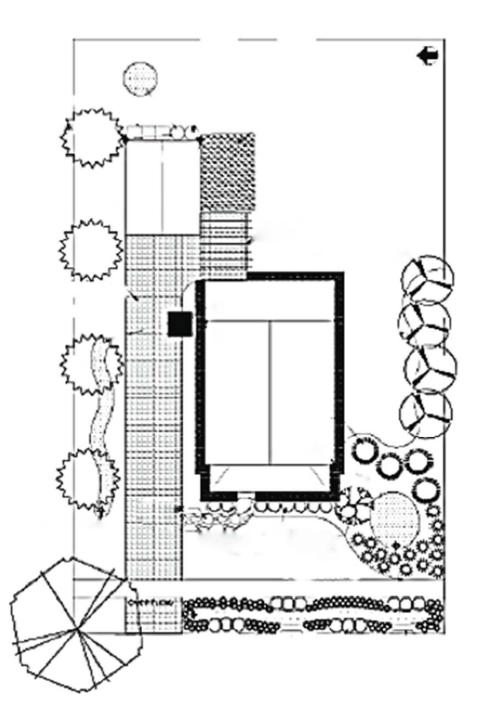


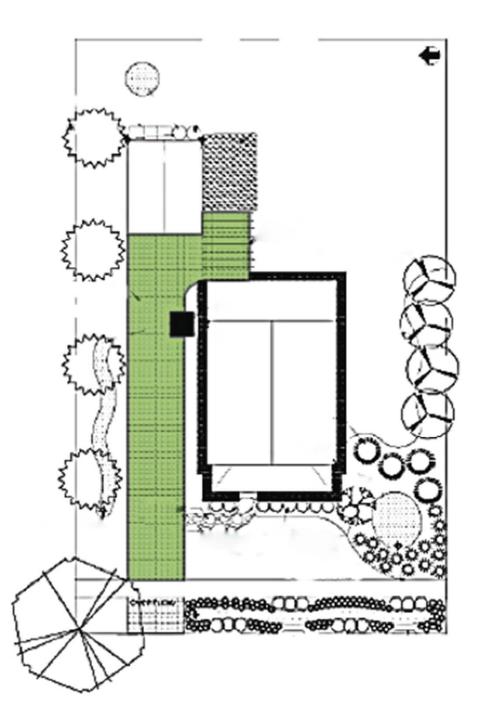


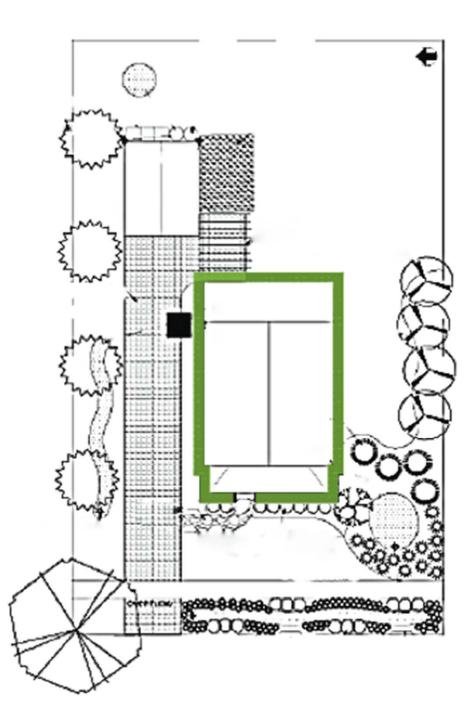


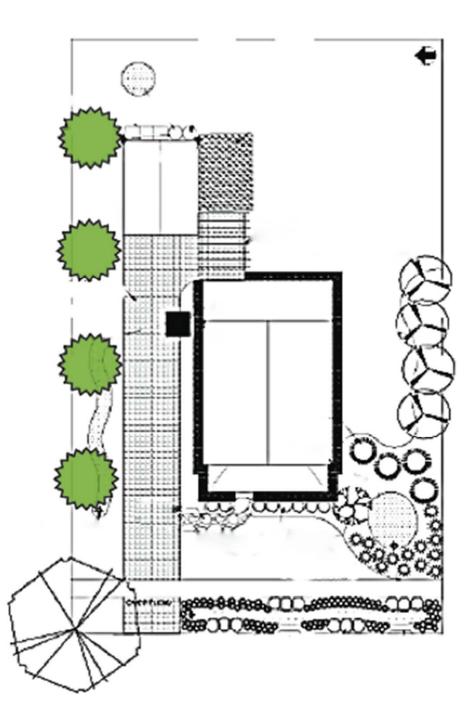


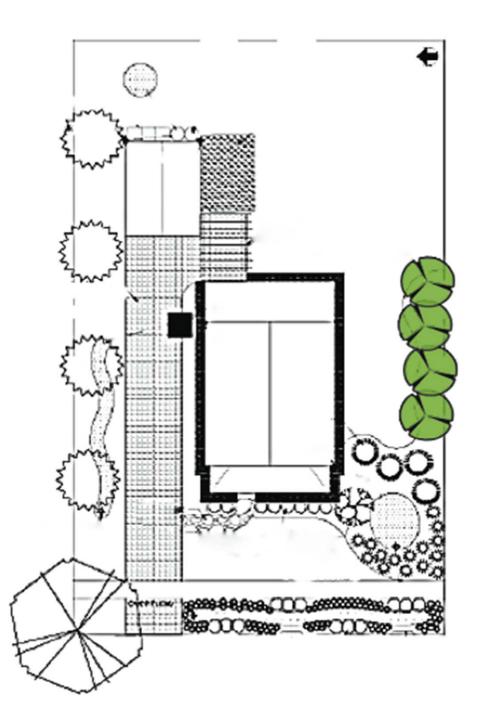


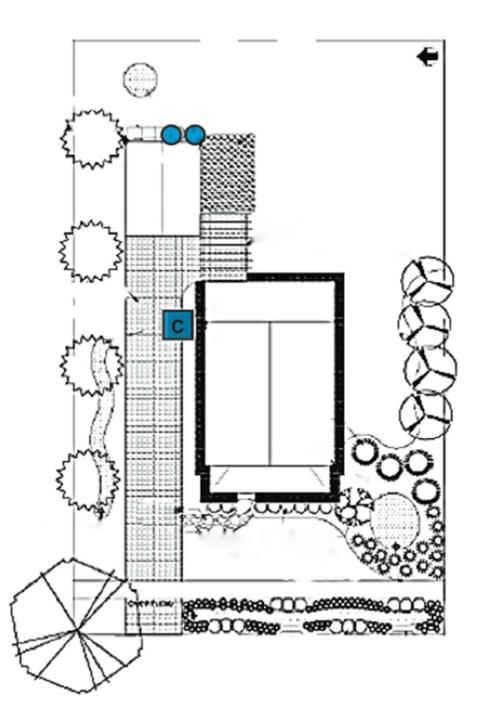


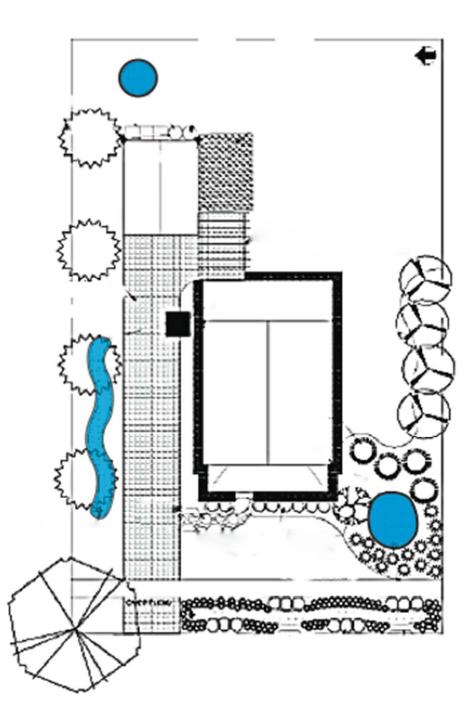










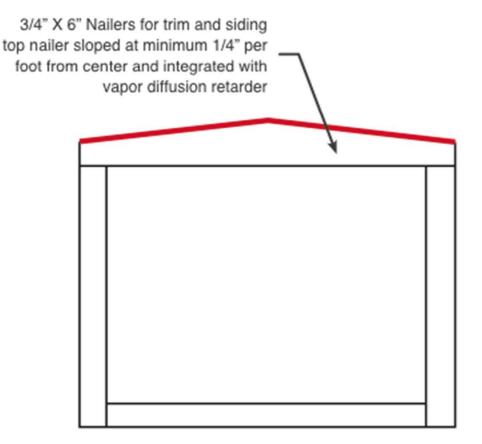


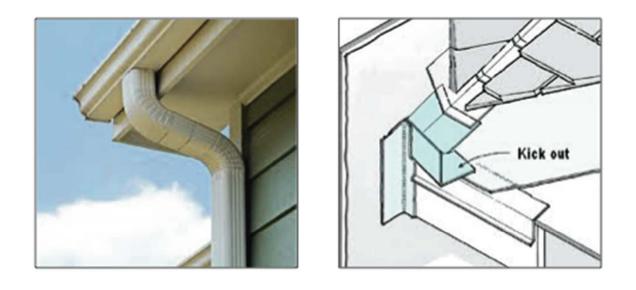
ENVELOPE DURABILITY



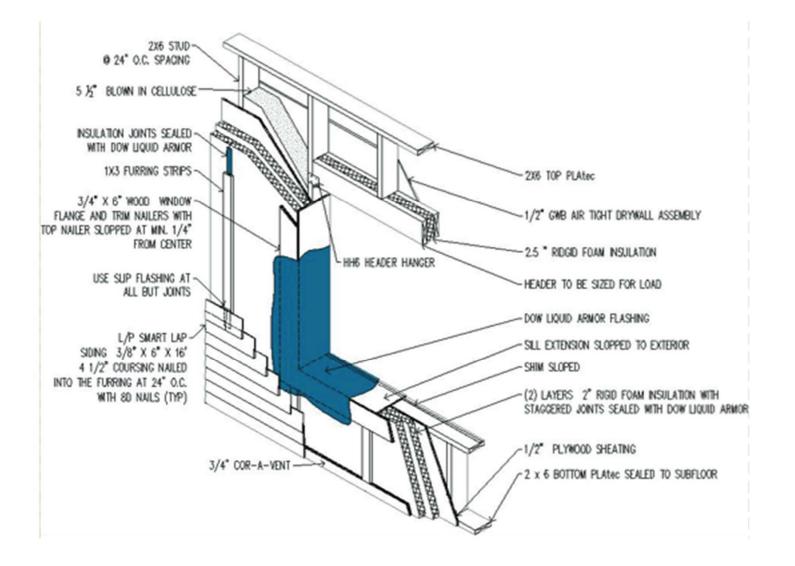
Traditional Ecological Knowledge



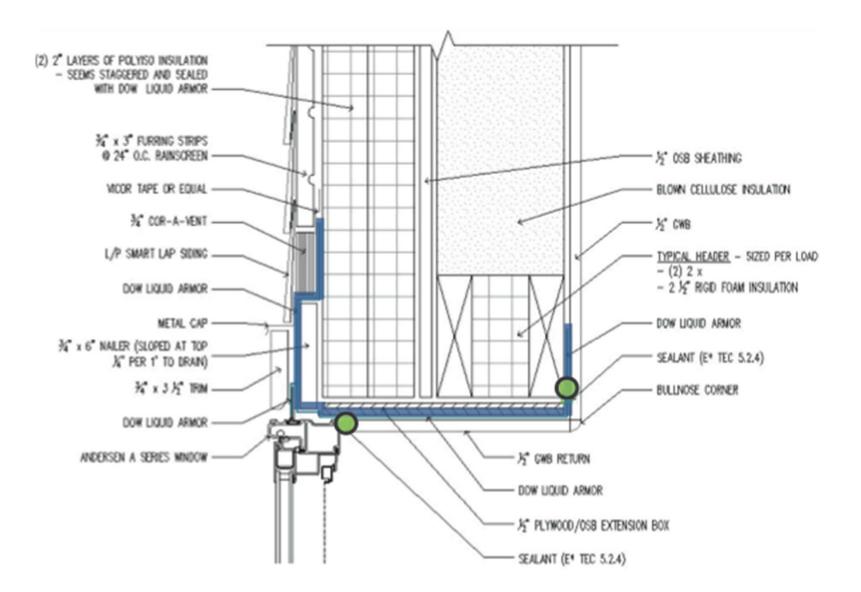


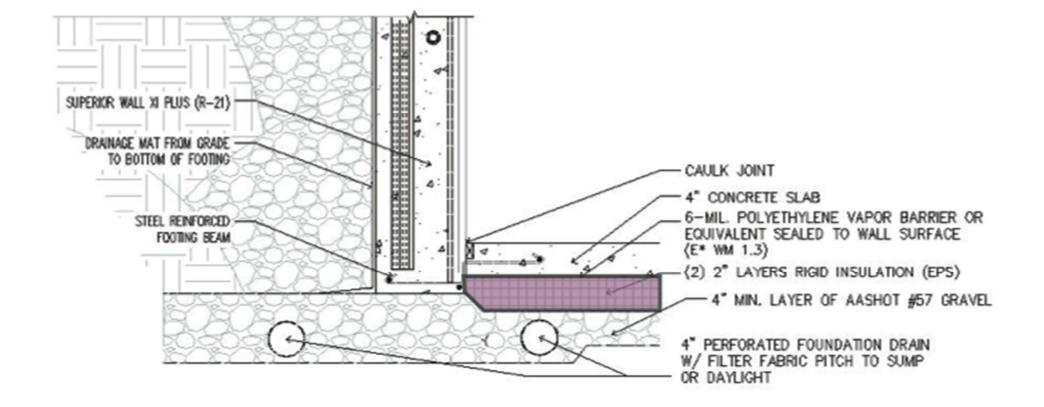


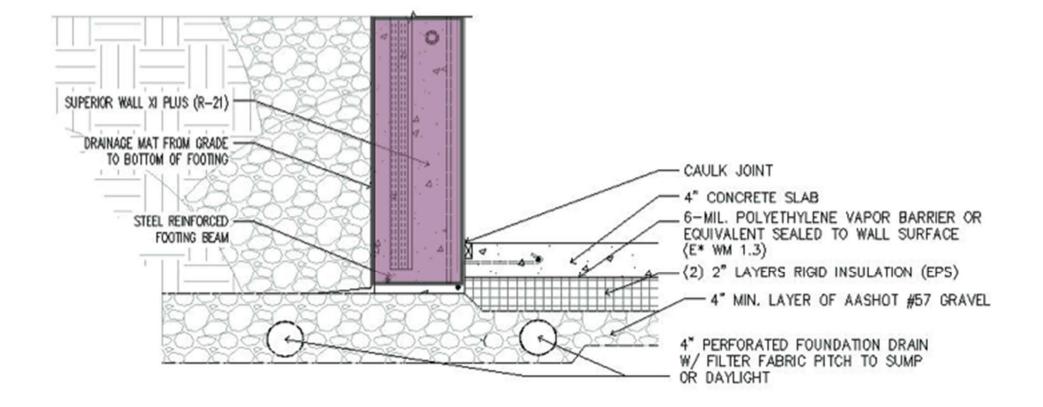


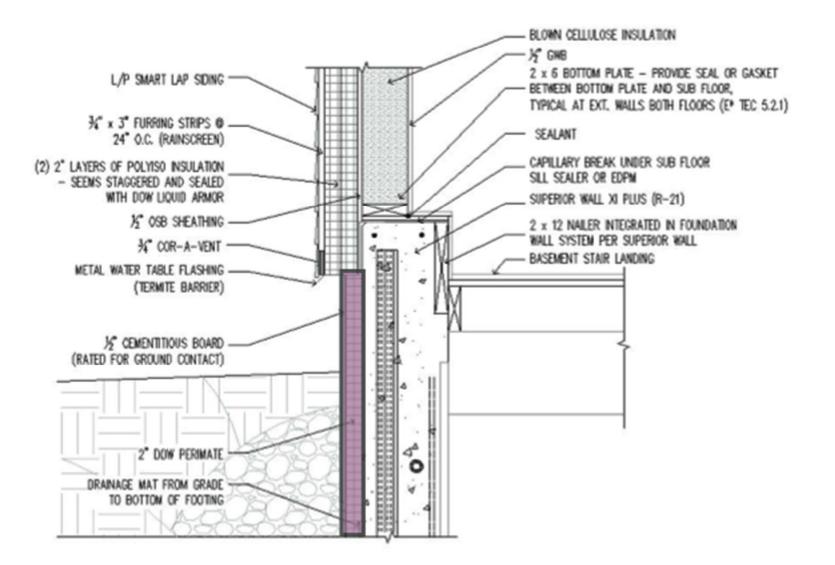


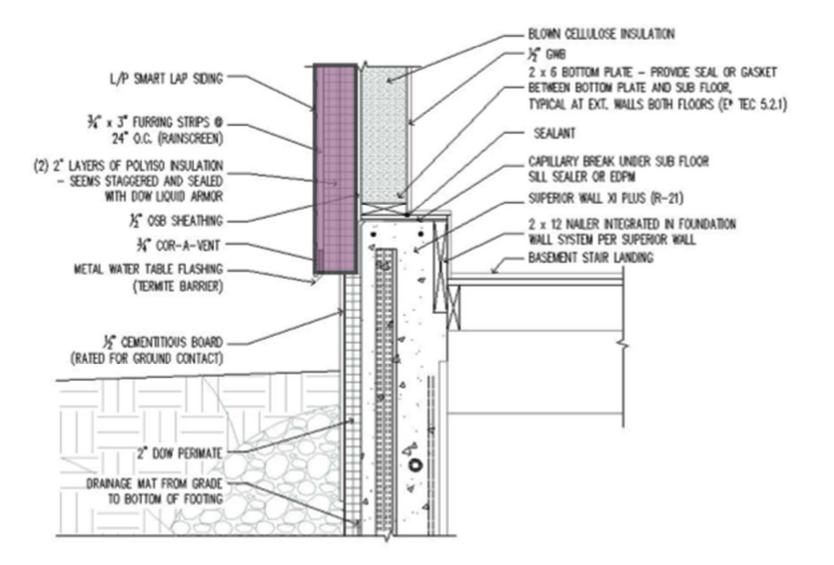
Typical Window Head Detail

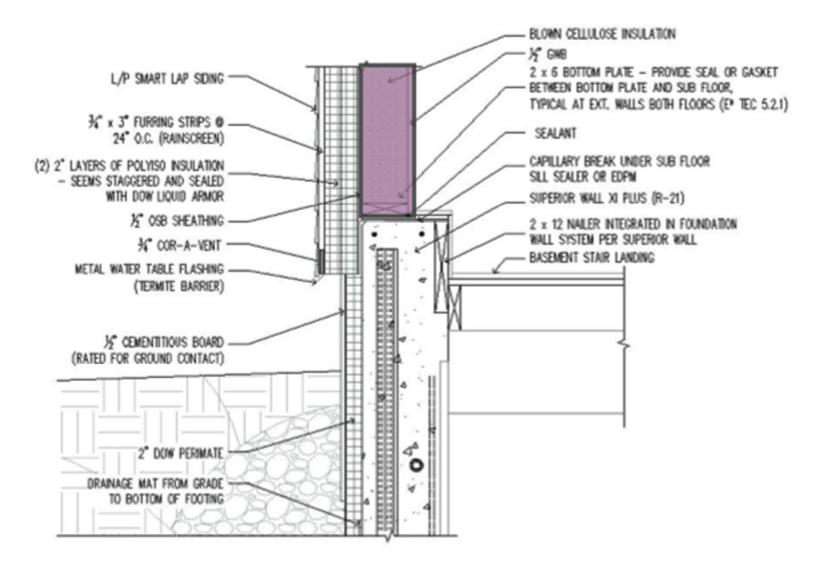


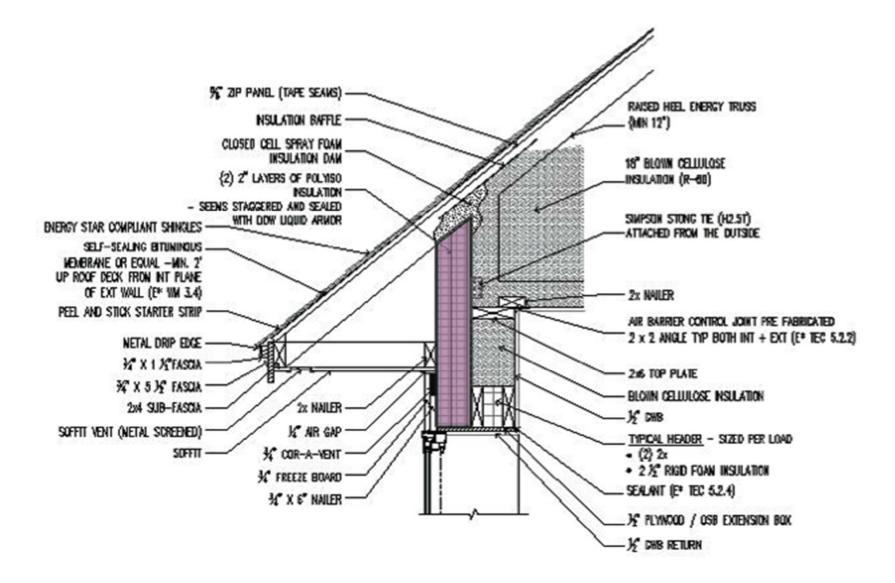


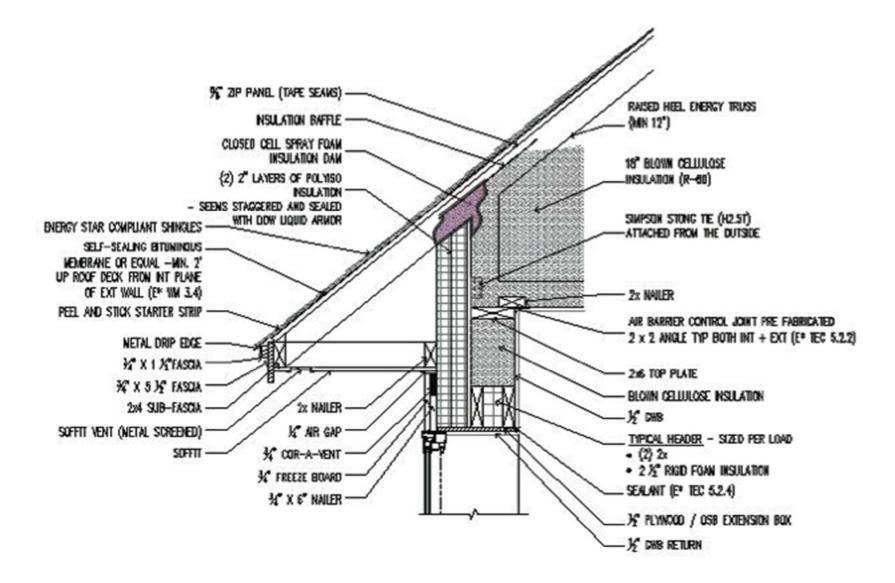


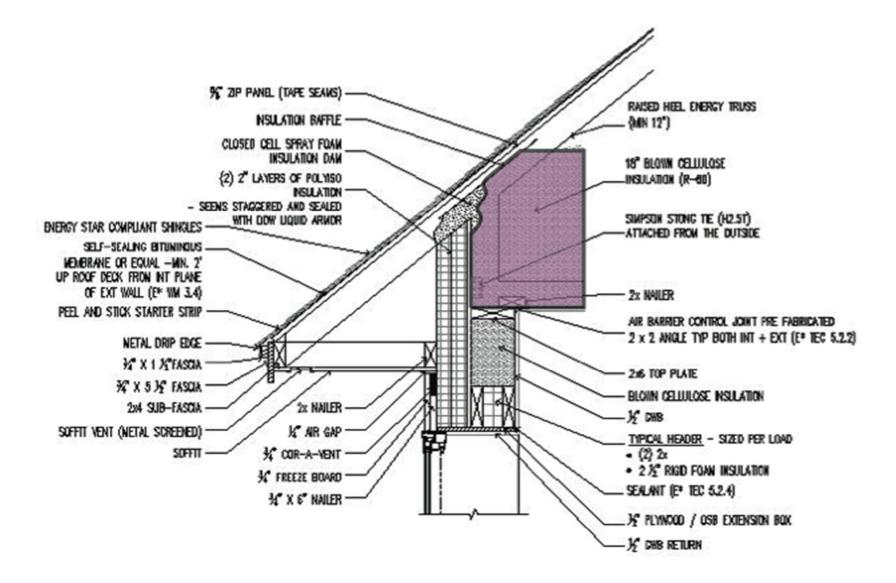


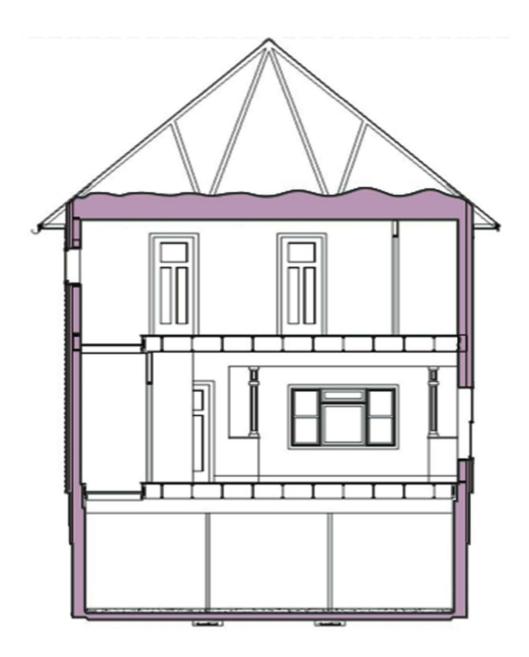




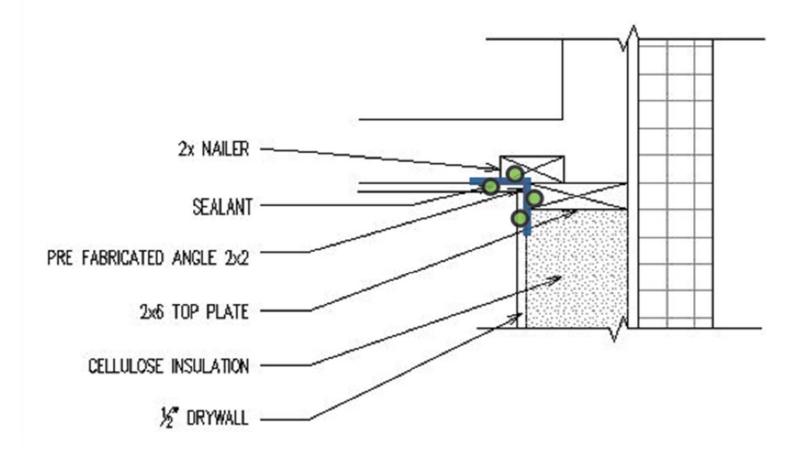






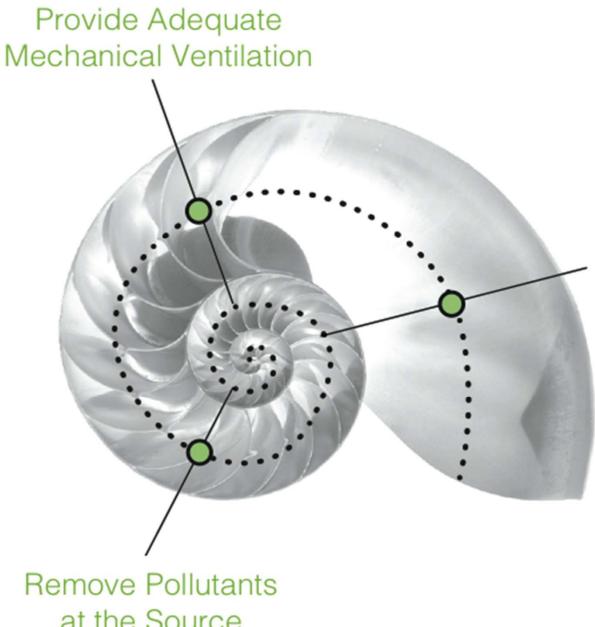


Typical Air Sealing Detail



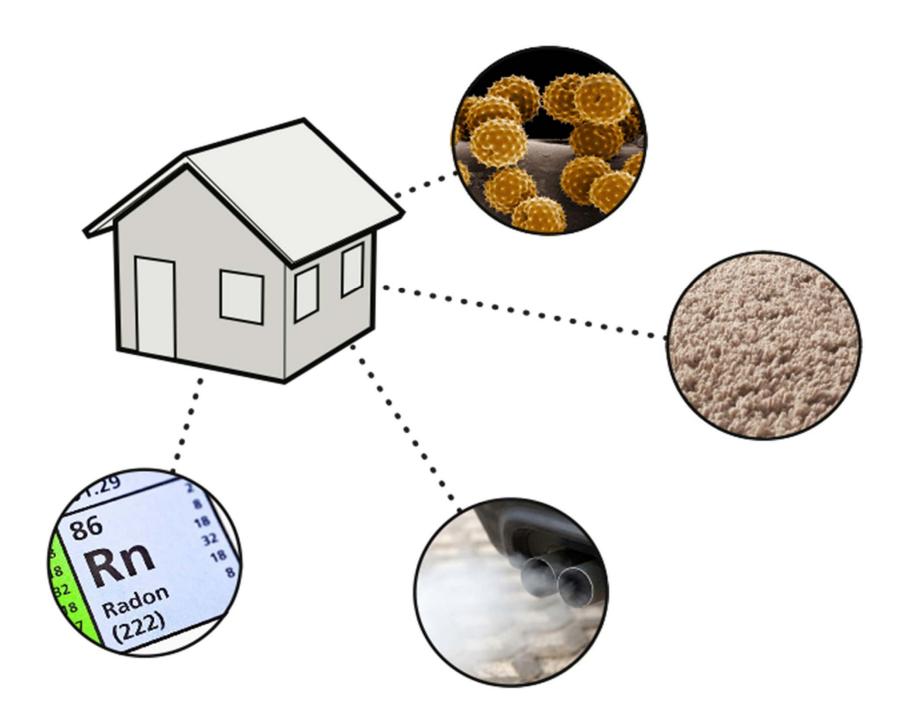
INDOOR AIR QUALITY





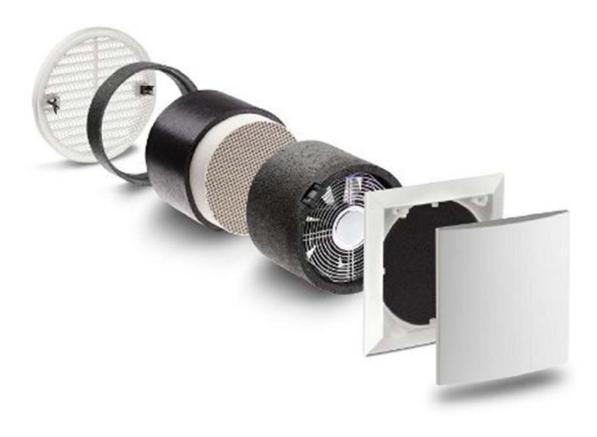
Operable Windows for Natural ventilation

at the Source



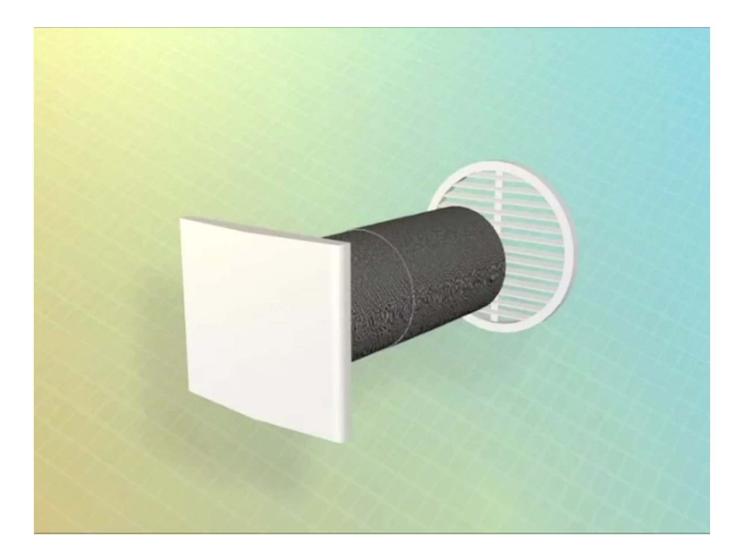
Lunos e2 HRV

Decentralized Heat Recovery System



Lunos e2 HRV

Decentralized Heat Recovery System



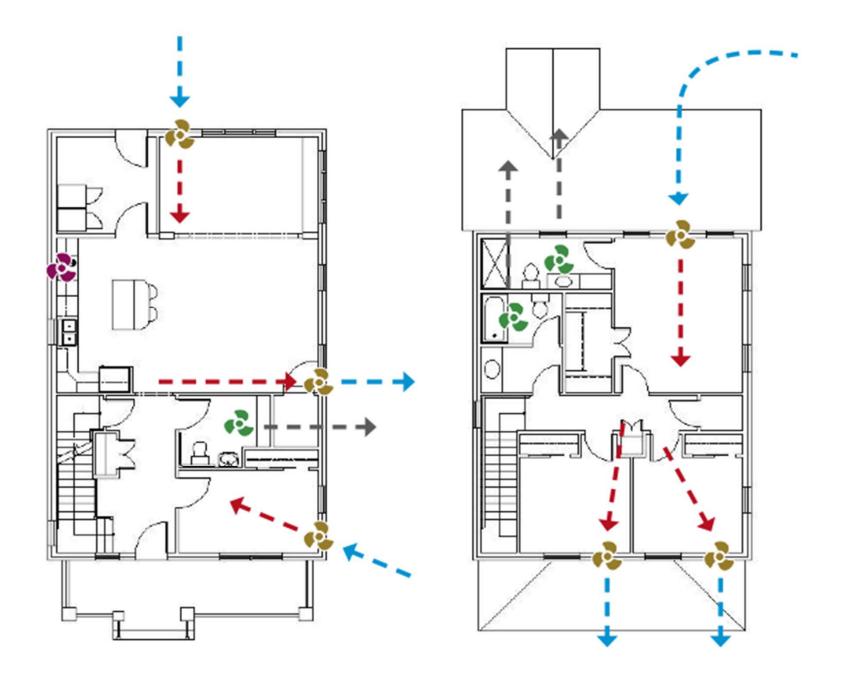
Local Exhaust Ventilation

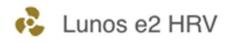
Panasonic WhisperGreen

Range Hood









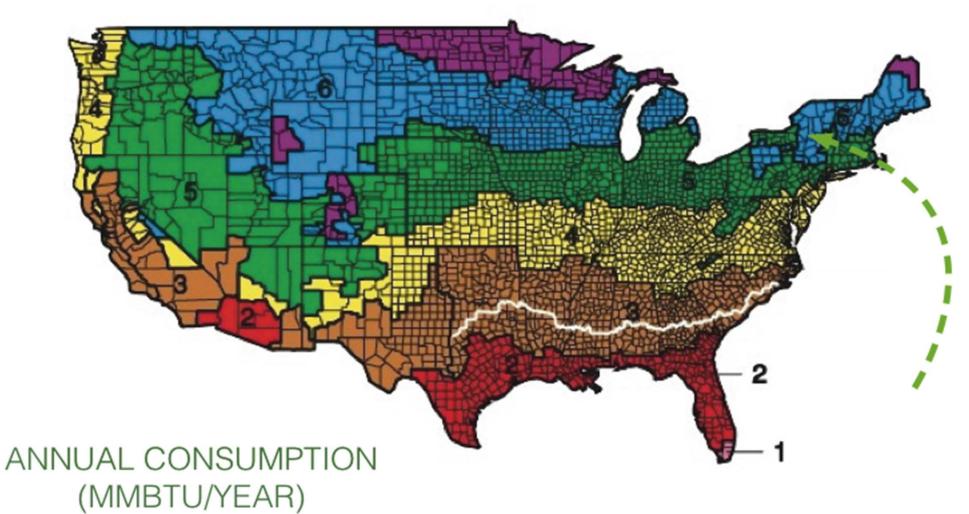
🔥 Lunos e2 HRV 🤹 Panasonic WhisperGreen Exhaust Fan 🤞 Rangehood



SPACE CONDITIONING

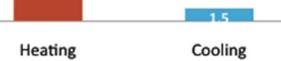






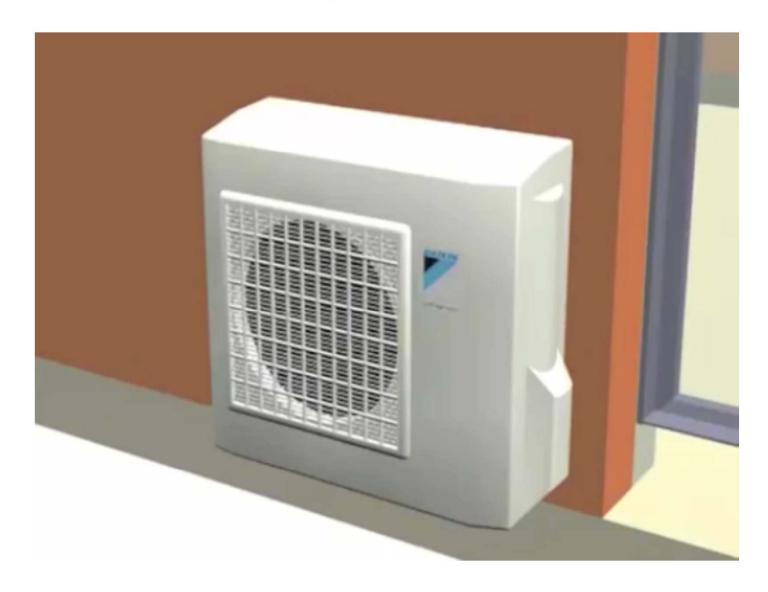


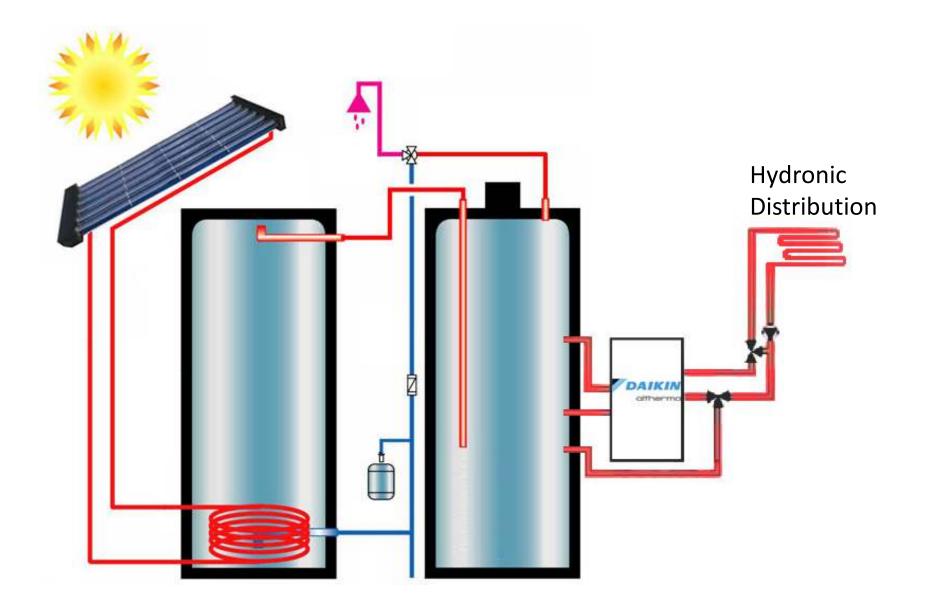
CLIMATE ZONE 5a



Daikin Altherma

Air-source to Water Heat Pump





Distribution

	Low temp Baseboard	Staple-up Radiant	Warm board Radiant
Energy consumption heating	3824 kWh	3199 kWh	2402 kWh
Energy cost heating	570 \$	477 \$	358 \$
Spare capacity	19777 BTU/h	20029 BTU/h	21490 BTU/h
Seasonal COP	2.3	2.8	3.7

Warm Board

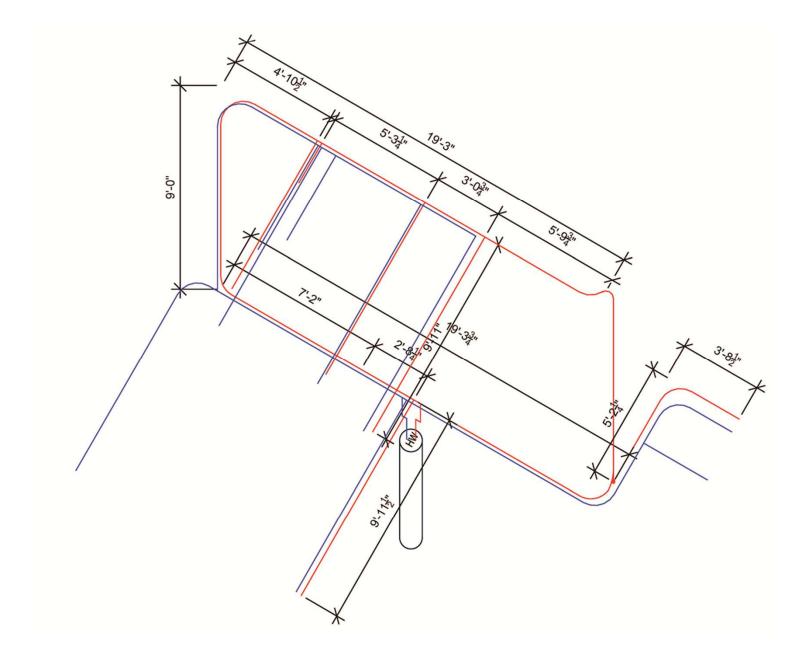


DOMESTIC HOT WATER



PLANET

Plumbing Riser Diagram



Hot Water Wait Time (Seconds)



NET ZERO



PROSP	ERITY
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HIGH EFFICIENCY

- HVAC
- Lighting
- Appliances
- Construction





Solar Study

Winter Solstice



Net Zero



Energy

Water Ready

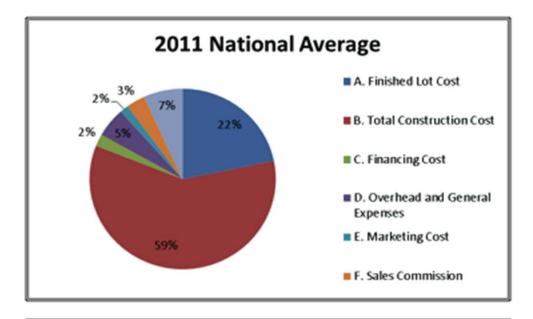
Money

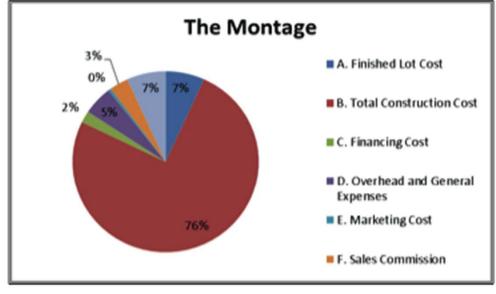
Fossil Fuels

FINANCIAL



Sales Price Breakdown





• 2011 NAHB AVERAGE

- \$310,618
- \$134 / SF

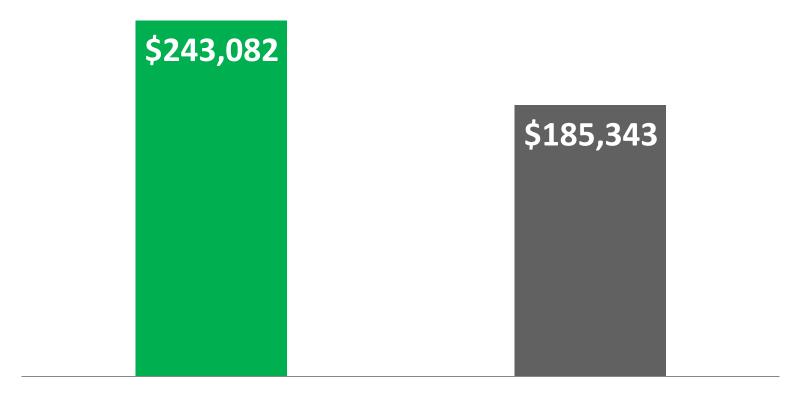
• THE MONTAGE

- \$321,977
- \$169 / SF

• DIFFERENCE:

- \$11,359
- 3.65% Increase

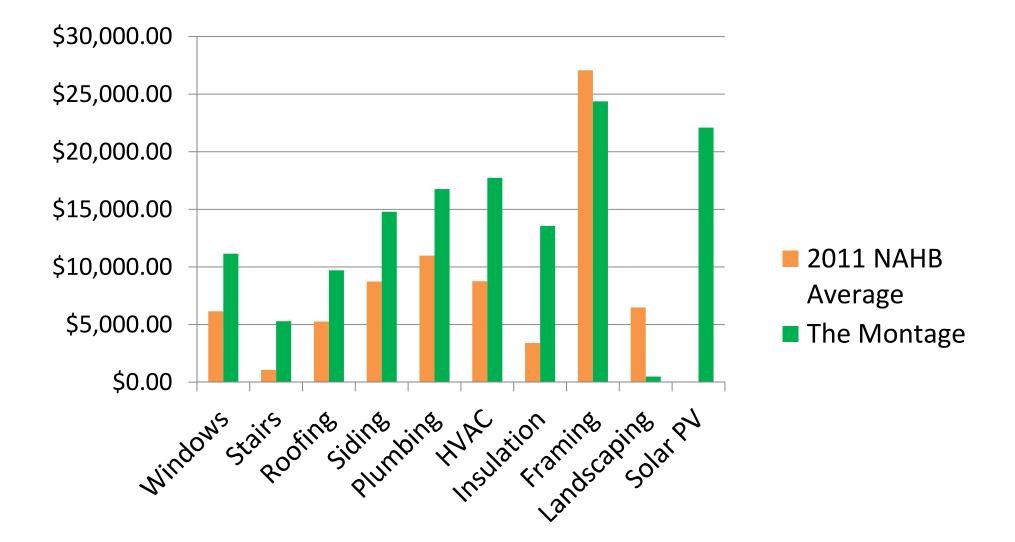
Construction Cost



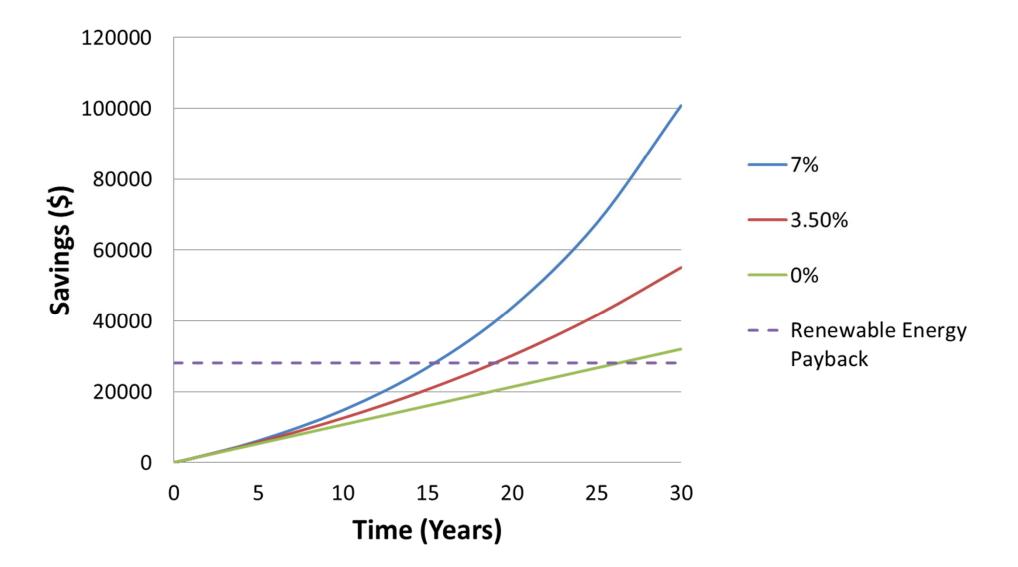
The Montage

2011 National Average

Construction Cost



Utility Cost Savings



THANK YOU!





QUESTIONS?