DCVL

DESIGN

Proud to be MBE Certified

Crafting a Regenerative Approach

DCVL for Boston Society of Architects (BSA) Sustainability Education Committee (SEC); Tuesday, May 21, 2024

THANK YOU!

BSA

← All Knowledge Communities

SUSTAINABILITY EDUCATION COMMITTEE

As we acquire ecological literacy within the building-industry profession, the next question becomes: How can architects mitigate the effects of climate change through their buildings? Learn with us.

Sign up to receive committee alerts by email.

Co-chairs

Esther Huang / hsin1017@hotmail.com
Jeffrey Berg AIA / jeffrey.t.berg@wsp.com

Images: Center - https://www.architects.org/knowledge-communities/sustainability-education-committee

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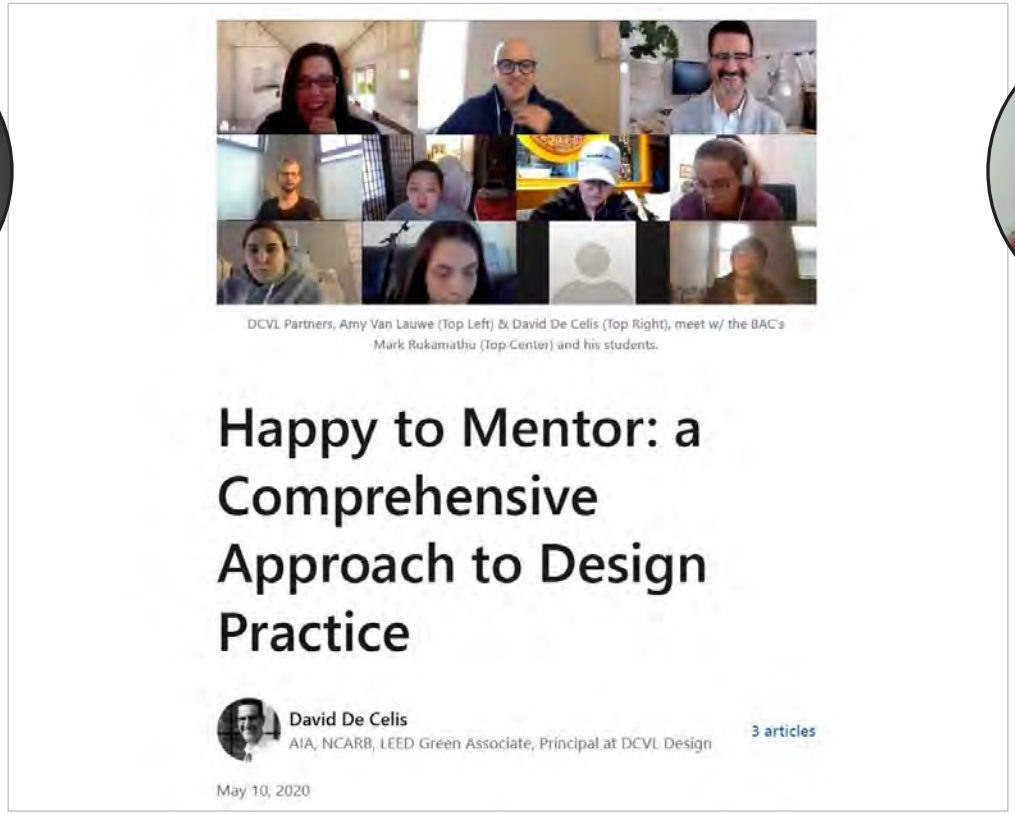
THANK YOU!



DCVL Partners, Amy Van Lauwe (Top Left) & David De Celis (Top Right), meet w/ the BAC's Mark Rukamathu (Top Center) and his students.

Happy to Mentor: a Comprehensive Approach to Design Practice

David De Celis
AIA, NCARB, LEED Green Associate, Principal at DCVL Design

3 articles

May 10, 2020

Images: Center by DDC on Linked-In

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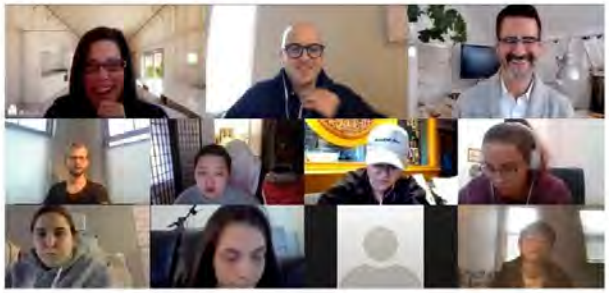


DCVL Partners, Amy Van Lauwe (Top Left) & David De Celis (Top Right), meet w/ the BAC's Mark Rukamathu (Top Center) and his students.

Wôpanâak

Massa-adchu-es-et (Massachusett)

Last updated on Tuesday, June 5th, 2018

Websites

Massachusett Tribe Website

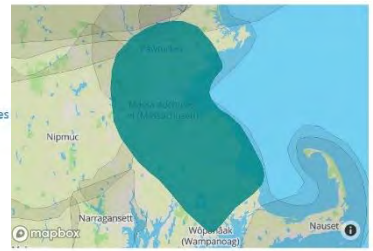
Mattakeeset Tribe of the Massachuset Indian Peoples

Praying Indians of Natick and Ponkapoaq

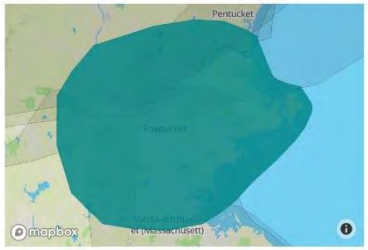
Passanageset Project Website

Related maps

- Massachuset (Languages)



Pawtucket



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Crafting a Regenerative Approach

DCVL for Boston Society of Architects (BSA) Sustainability Education Committee (SEC); Tuesday, May 21, 2024

Learning Objectives:

- Discuss how a regenerative design approach bolsters sustainability goals.
- Identify available resources and software for analyses of carbon footprints.
- Discuss how academic and advocacy work provide teaching and learning opportunities for ongoing professional development and community engagement.
- Explain how incorporating Passive House, zero energy, and universal design strategies help projects reach their sustainability goals while simultaneously promoting occupants' wellbeing.

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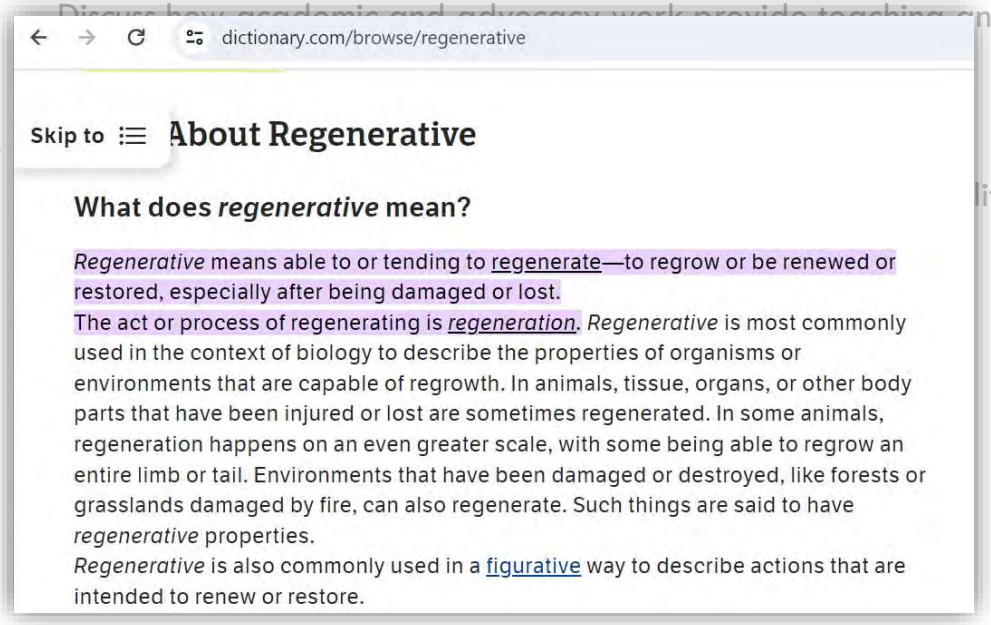

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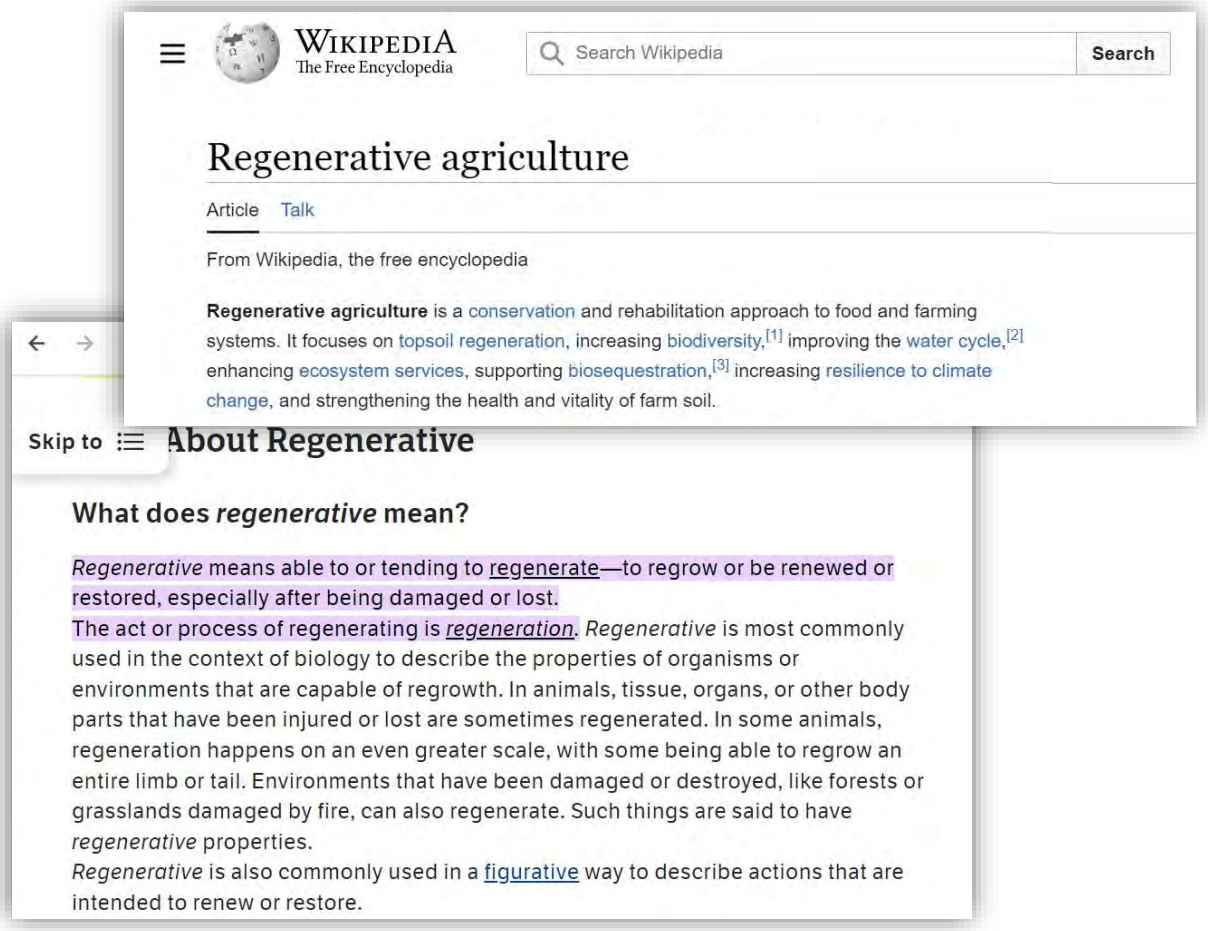

WIKIPEDIA
The Free Encyclopedia

Search Wikipedia | Search

Regenerative agriculture

Article Talk

From Wikipedia, the free encyclopedia

Regenerative agriculture is a conservation and rehabilitation approach to food and farming systems. It focuses on topsoil regeneration, increasing biodiversity,[1] improving the water cycle,[2] enhancing ecosystem services, supporting biosequestration,[3] increasing resilience to climate change, and strengthening the health and vitality of farm soil.

Skip to

About Regenerative

What does *regenerative* mean?

Regenerative means able to or tending to regenerate—to regrow or be renewed or restored, especially after being damaged or lost.
The act or process of regenerating is *regeneration*. *Regenerative* is most commonly used in the context of biology to describe the properties of organisms or environments that are capable of regrowth. In animals, tissue, organs, or other body parts that have been injured or lost are sometimes regenerated. In some animals, regeneration happens on an even greater scale, with some being able to regrow an entire limb or tail. Environments that have been damaged or destroyed, like forests or grasslands damaged by fire, can also regenerate. Such things are said to have *regenerative* properties.
Regenerative is also commonly used in a figurative way to describe actions that are intended to renew or restore.

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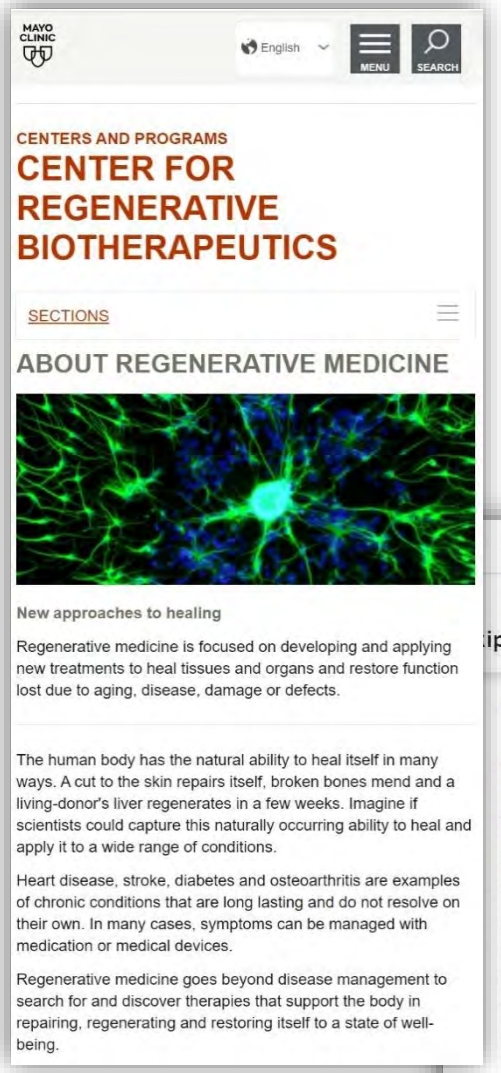
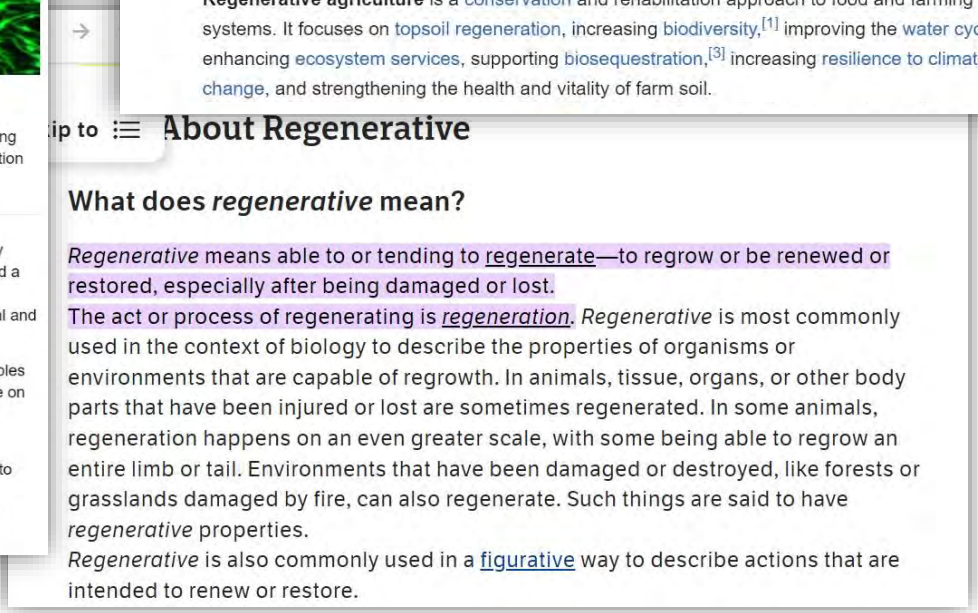
Crafting a Regenerative Approach





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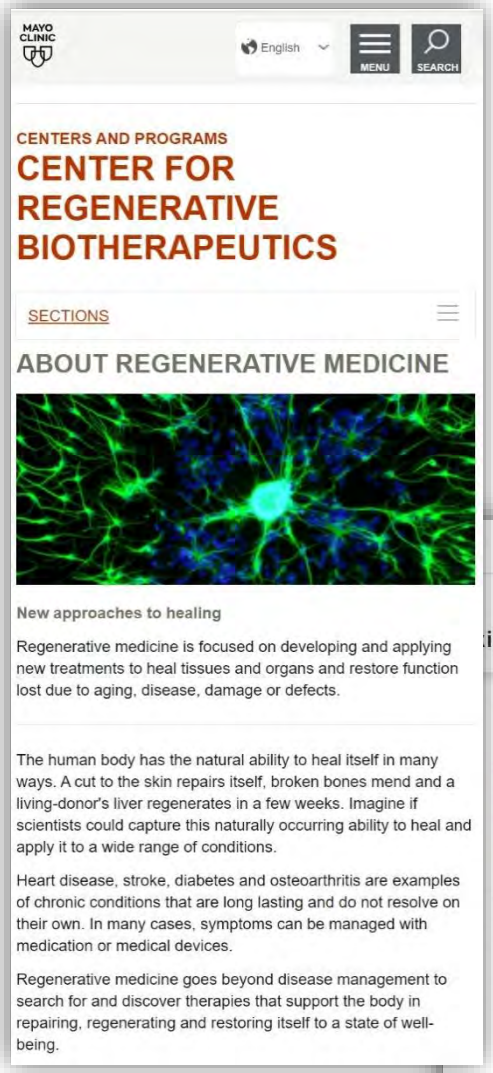

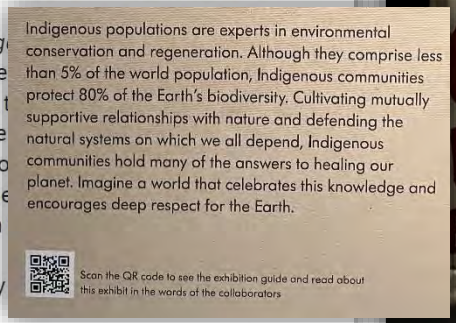

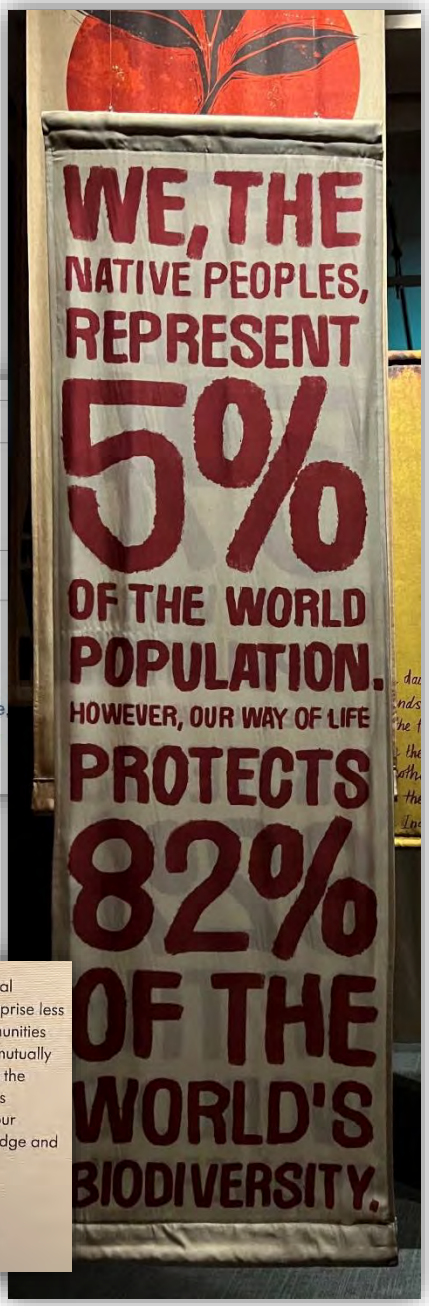

Right: Fabric Forest from *Our Time on Earth* exhibit by Choose Earth Collective w/ Célia Xakriabá & Sônia Guajajara.

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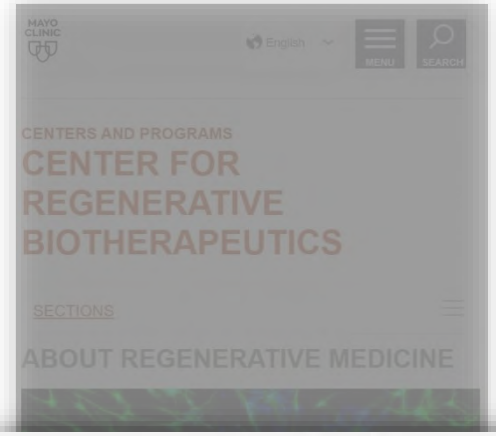
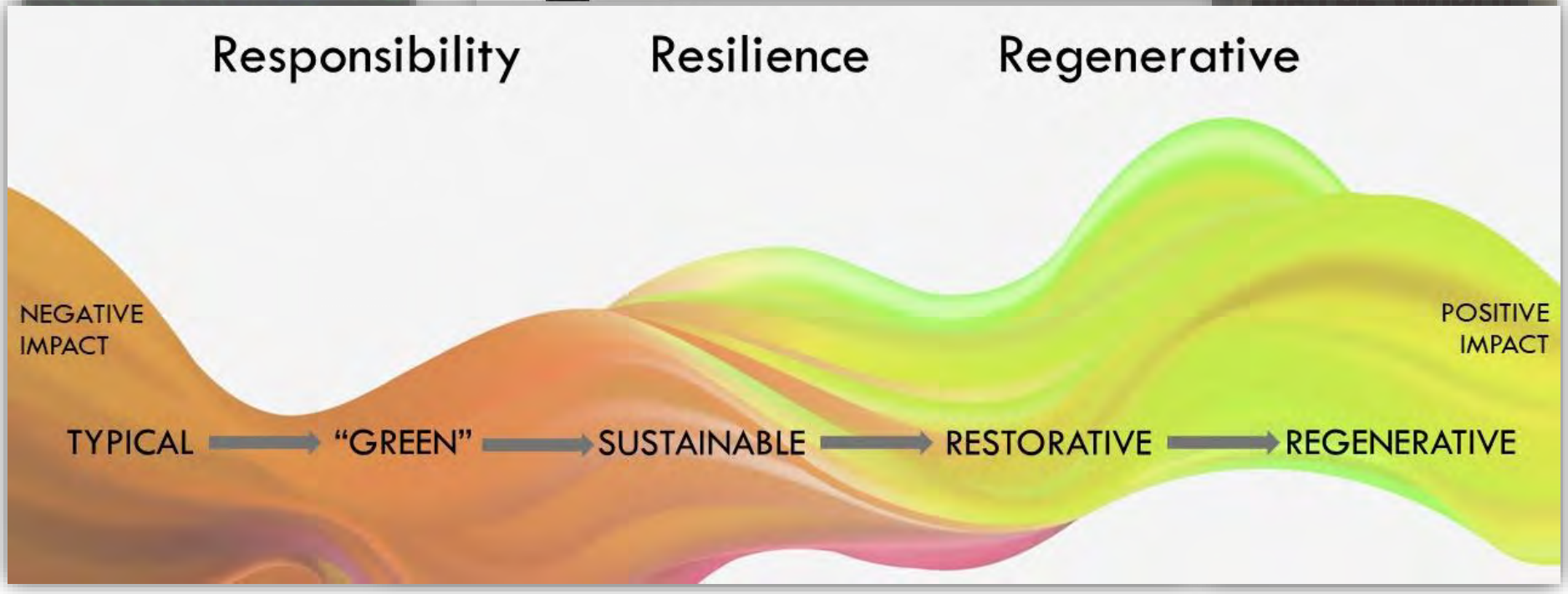
Crafting a Regenerative Approach





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Founding Partners / Role(s):

David De Celis, AIA
Principal / Project Architect
(He / Him / His / Latin-X)

- M-Arch, Harvard, GSD
- Over 35 yrs. Experience
- Specializes in: Ed/Institutional, Collaborative work-spaces, Theater/Assembly
- Academics: RISD, BAC, UM SoA

Amy Van Lauwe, AIA
Principal / Project Architect
(She / Her / Hers)

- M-Arch, Boston Architectural College
- Over 25 yrs. Experience
- Specializes in: Ed/Institutional, Food-service spaces, Passive Zero-Energy Construction
- Academics: BAC + Suffolk University

David typically handles projects with an emphasis on space planning, accessibility and FF&E; Amy focuses on zero-energy/passive projects, food service and new construction. Both Principals handle renovations, interiors, and LEED-certified projects. Because of our size and our experience with tight project schedules, we are both directly involved in each project from inception to close-out without hand-offs to other personnel. This ensure that project goals remain focused and streamlines communications.

DCVL Team/
Recent Graduates:
Kaylee and Joshua

Images: Clockwise from Top – B&W by M. Cahill, J. Troh, DDC

ARTS-EDUCATION-INSTITUTIONAL

COMMERCIAL

RESIDENTIAL

PLANNING-FEASIBILITY STUDIES

GARDENS

MILLWORK-GRAPHICS-FF&E

ARTS-EDUCATION-INSTITUTIONAL
Multi-Unit Dorm./Higher Ed.

COMMERCIAL

RESIDENTIAL
P.H./Renovations/Hybrid…

PLANNING-FEASIBILITY STUDIES

GARDENS

MILLWORK-GRAPHICS-FF&E

Crafting a Regenerative Approach

EXAMPLES: our Office/**DCVL** Design
+ **R E S I D E N T I A L** (x4) :

Crafting a Regenerative Approach

EXAMPLES: our Office/**DCVL** Design

About Us – HIS/HERstory

561 Windsor:
WFH Alternative!

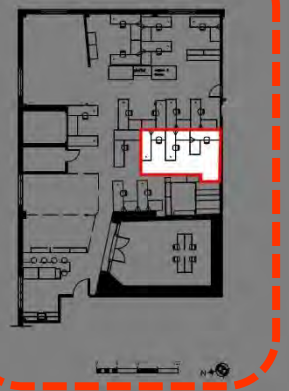
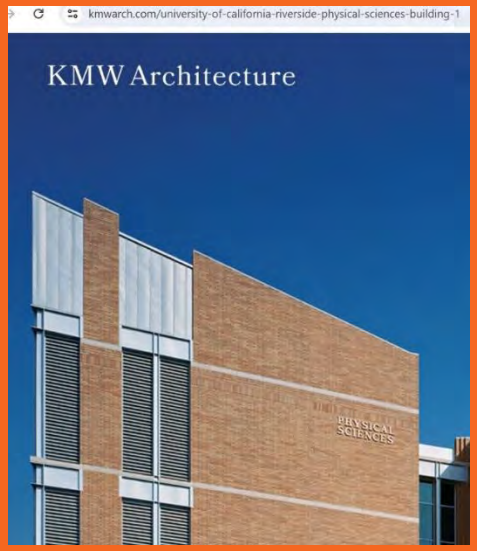


Image: CAD by DCVL ©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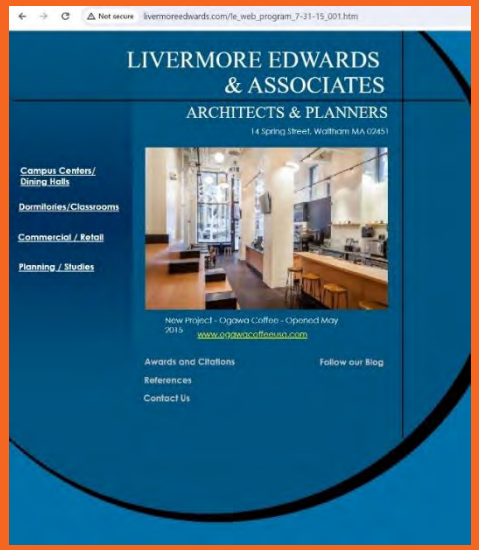
KMW Architecture
PHYSICAL SCIENCES


livermoreedwards.com/le_web_program_7-31-15_001.htm
LIVERMORE EDWARDS & ASSOCIATES
ARCHITECTS & PLANNERS
14 Spring Street, Waltham MA 02451
Campus Centers/ Dining Halls
Dormitories/Classrooms
Commercial / Retail
Planning / Studies
New Project - Ogawa Coffee - Opened May 2015
www.ogawacoffeeusa.com
Awards and Citations
Follow our Blog
References
Contact Us

Where were WE 2008…?

…the state of *Practice* and *Us* ?

DCVL Design, for **BSA SEC:** FIT-OUT for ARUP, 2008. 11,200 SF / $1.3M

2007-'08

Images: L by Narin Oun / R – study sketch by DDC

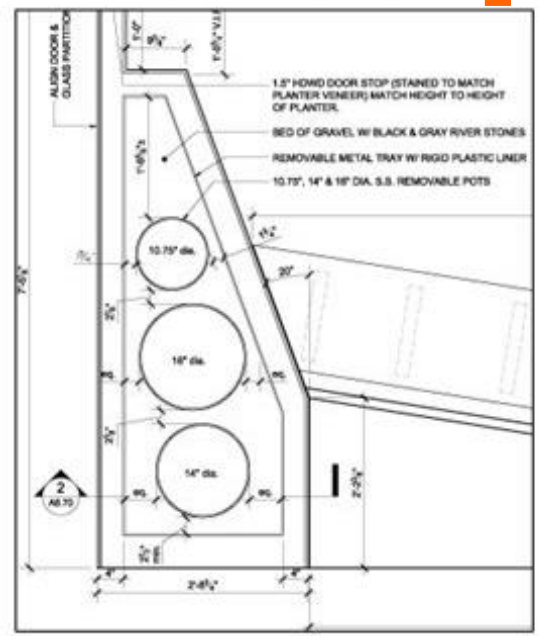
Image: by Narin Oun

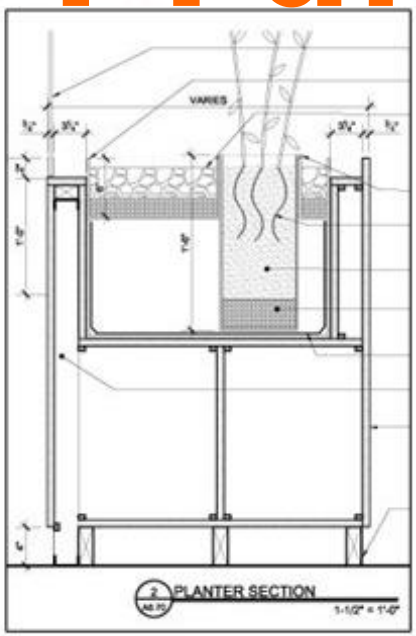
Images: by Narin Oun

2007-'08…

…*Terrapin* Pub's

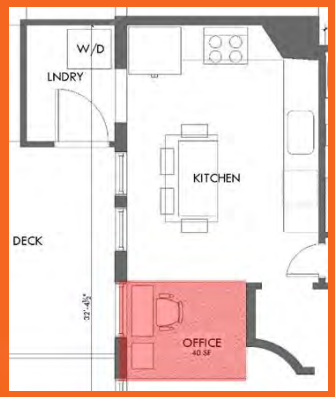
"14 Patt…" 9.14.2014






UP
Entry
Unit #2
Vestibule
Office
65 sf
Bedroom


THE AMERICAN INSTITUTE OF ARCHITECTS
Architect's Essentials
of
Starting a
Design Firm
• Step-by-step guidelines to understanding and evaluating the goals, risks, and rewards of starting a design firm
• Helpful strategies, information, and considerations for building a startup from the ground up
• Real-world knowledge for building or expanding a design firm
Peter Piven
Bradford Perkins


W/D
LNDRY
KITCHEN
DECK
OFFICE

DCVL PHILOSOPHY & BUSINESS MODEL

VISIONING
SWOT ANALYSIS
$$$
PARTNERSHIP AGREEMENT

DCVL PHILOSOPHY & BUSINESS MODEL

DESIGN
ACADEMICS
VOLUNTEERISM

"creating innovative, flexible spaces for the ways we live, work and learn"

Image: CAD by DCVL ©

Images by DDC

Crafting a Regenerative Approach

EXAMPLES: our Office/**DCVL** Design

561 Windsor:
WFH Alternative! …our Bldg./Space

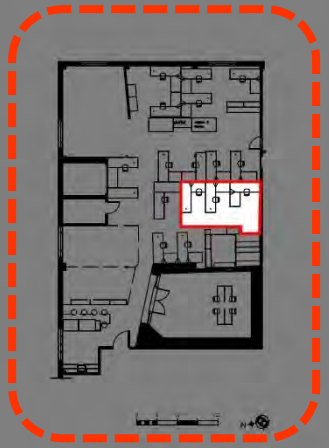


Image: CAD by DCVL ©

Hive Outside . . .

the hive
BOYNTON — YARDS

. . . & Inside


BOEHM ARCHITECTUR
BOUCHARD ENGINEE
CENTREPOINT ARCHI
DCVL
EJP CONSULTING GR
HIGHMARK LAND DE
MOMENTUM ARCHI
ROYER ARCHITECTS
STUDIO WATT O'KE

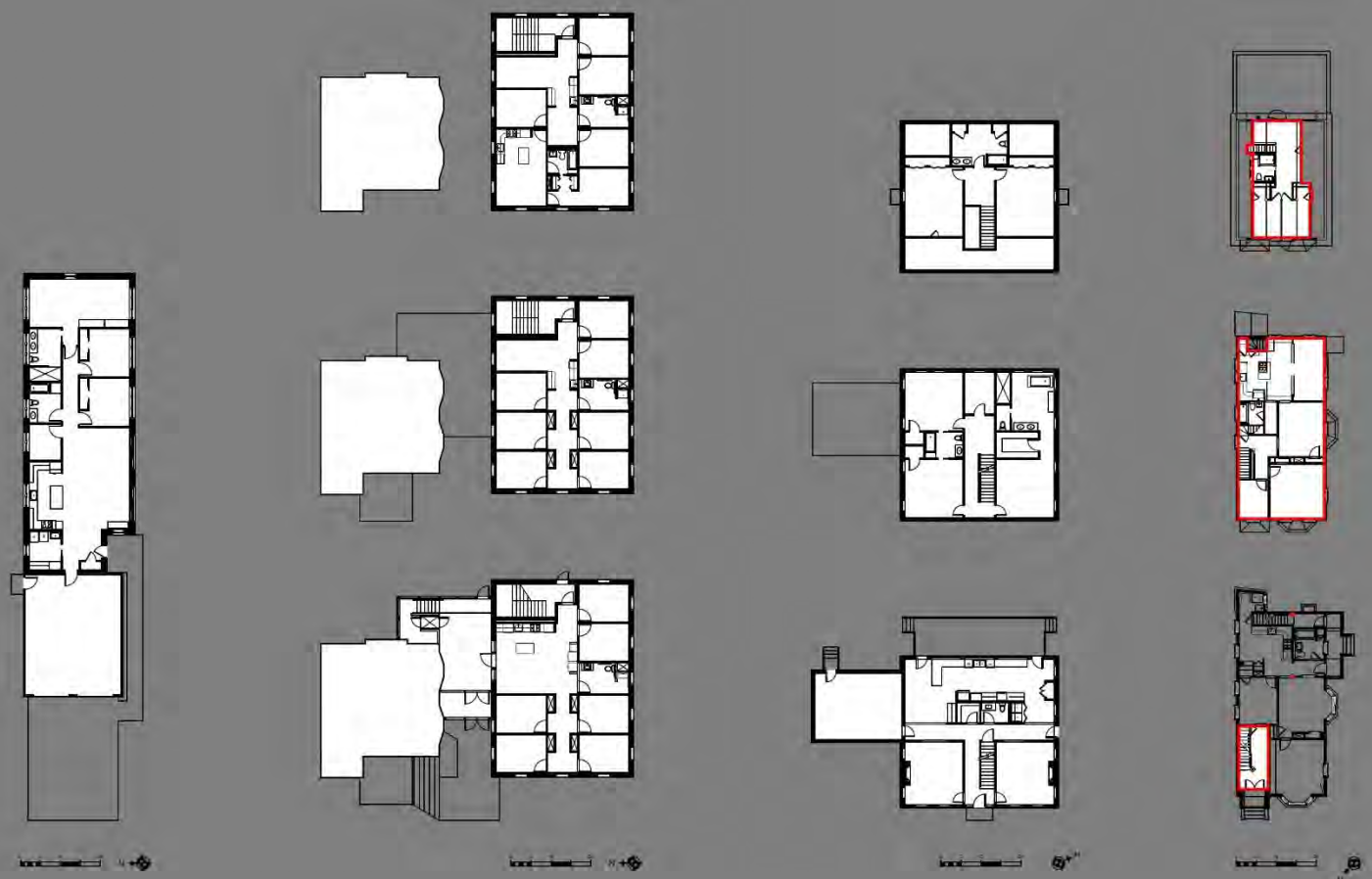

good green HOMES

. . . & Inside

Crafting a Regenerative Approach

RESIDENTIAL:

New Construction / Hybrid (x2) / Renovation



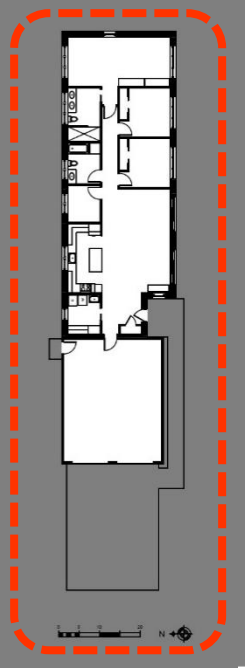
Crafting a Regenerative Approach

RESIDENTIAL:

New Construction / Hybrid (x2) / Renovation

Wilton:

Small, but BIG Impact

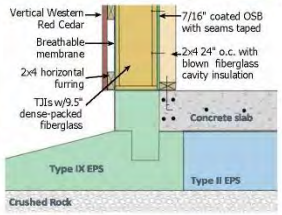


ZERO ENERGY READY HOME
U.S. DEPARTMENT OF ENERGY

U.S. DOE ZERO ENERGY READY HOME 2021 WINNER Housing Innovation Awards

DCVL Design

Wilton Zero-Energy Residence



PROJECT DATA

- **Layout:** 3 bdrm, 1 fl, 2,001 ft2
- **Climate:** IECC 5A, cold
- **Completed:** January 2021
- **Category:** Custom for Buyer <3,000 ft2

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 30; with PV -25
- **Annual Energy Costs: without PV** $1,450; with PV $200
- **Annual Energy Cost Savings:** (vs typical new homes) **without PV** $3,900; with PV $5,100
- **Annual Energy Savings:** without PV 14,100 kWh; with PV 8,400 kWh
- **Savings in the First 30 Years: without** PV $157,900; with PV $207,300

KEY FEATURES

- Walls: 2x4, 24" o.c. + Larsen truss, R-48 total: advanced framed walls with 3.5" blown fiberglass, 7/16" coated OSB taped, TJIs with 9.5" dense-packed fiberglass held by breathable membrane, 2x4 horizontal furring behind vertical Western Red Cedar.
- Roof: Vaulted ceilings with scissor truss, 5/8" coated OSB sheathing with taped seams, high-temperature underlayment, standing-seam metal roof, Cool Roof-certified.
- Attic: Vented R-76 total: two layers R-38 fiberglass batt in bottom cord of scissor truss.
- Foundation: Slab on grade: 12" R-48 EPS under slab, 9.5" R-38 EPS at slab edge. 10-mil poly vapor air barrier.
- Windows: Triple-pane, argon, low-e, aluminum-clad wood, awnings, U=0.147, SHGC=0.33.
- Air Sealing: 1.49 ACH50, continuous air barrier from below slab to peak of roof: under-slab barrier connected to wall and ceiling membrane with tapes and sealants, all holes sealed.
- Ventilation: ERV, MERV 8 filter, 131 CFM, 157 Watts, 78% SRE.
- HVAC: Ducted mini-split heat pump, 2.9 COP, 17 SEER. Passive solar design.
- Hot Water: Heat pump water heater, 66-gal, 3.35 COP. All hot water lines insulated to R-4.
- Lighting: 100% LED, large floor-to-ceiling windows for daylight.
- Appliances: ENERGY STAR refrigerator, dishwasher, 4 ceiling fans, exhaust fan, water heater.
- Solar: 11.5 kW, rooftop panels.
- Water Conservation: Low-flow fixtures, compact plumbing design, PEX piping.
- Energy Management System: N/A
- Other: EV charging; accessible shower, doors, and floorplan.

Home Energy Rating Certificate

Final Report

Rating Date: 2020-06-19
Registry ID: 259476935
Ekotrope ID: yvPWPkZd

HERS® Index Score: -25

Your home's HERS score is a relative performance score. The lower the number, the more energy efficient the home. To learn more, visit www.hersindex.com

Annual Savings $5,110

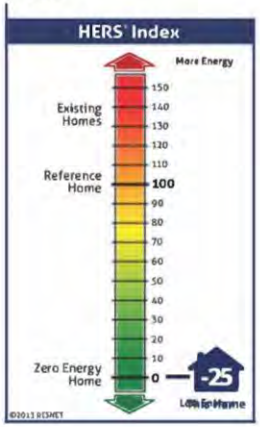
*Relative to an average U.S. home

Home:
42 Robbins Rd
Wilton, NH 03086

Builder:
Energy Vision Homes

Your Home's Estimated Energy Use:

	Use [MBtu]	Annual Cost
Heating	4.3	$204
Cooling	1.2	$58
Hot Water	2.2	$102
Lights/Appliances	18.1	$855
Service Charges		$222
Generation (e.g. Solar)	48.7	-$1,218
Total:	**25.8**	**$222**



Home Feature Summary:

Home Type:	Single family detached
Model:	Residence
Community:	N/A
Conditioned Floor Area:	2,001 ft²
Number of Bedrooms:	3
Primary Heating System:	Air Source Heat Pump • Electric • 2.96014068 COP
Primary Cooling System:	Air Source Heat Pump • Electric • 17 SEER
Primary Water Heating:	Water Heater • Electric • 3.35 Energy Factor
House Tightness:	683 CFM50 (1.49 ACH50)
Ventilation:	131 CFM • 157 Watts
Duct Leakage to Outside:	10 CFM @ 25Pa (0.83 / 100 s.f.)
Above Grade Walls:	R-48
Ceiling:	Attic, R-67
Window Type:	U-Value: 0.146, SHGC: 0.34
Foundation Walls:	N/A

This home meets or exceeds the criteria of the following:

ENERGY STAR v3
ENERGY STAR v3.1
2015 International Energy Conservation Code
2012 International Energy Conservation Code
2009 International Energy Conservation Code
2006 International Energy Conservation Code

Rating Completed by:

Energy Rater: Michael A Browne
RESNET ID: 3992602

Rating Company: Advanced Building Analysis, LLC
2 Woodlawn St, Amesbury, MA 01913
(978) 270-3911

Rating Provider: Energy Raters of Massachusetts
2 Woodlawn Street Amesbury, MA 01913
978-270-3911

Michael A Browne, Certified Energy Rater
Digitally signed: 8/4/20 at 1:55 PM

ekotrope

Ekotrope RATER - Version:3.2.3.2496
The Energy Rating Disclosure for this home is available from the Approved Rating Provider.
This report does not constitute any warranty or guarantee.

ENERGY STAR CERTIFIED NEW HOME

Address: 42 Robbins Rd Wilton, NH 03086
Built by: Energy Vision Homes
Verified by: Advanced Building Analysis, LLC
Date: Aug 4, 2020
ENERGY STAR® for Homes Version Number: 3.1
Optional Information: Verified using Ekotrope (Version 3.2.3.2496)

This home has been independently verified to meet EPA's strict guidelines for energy efficiency.
Learn more at energystar.gov

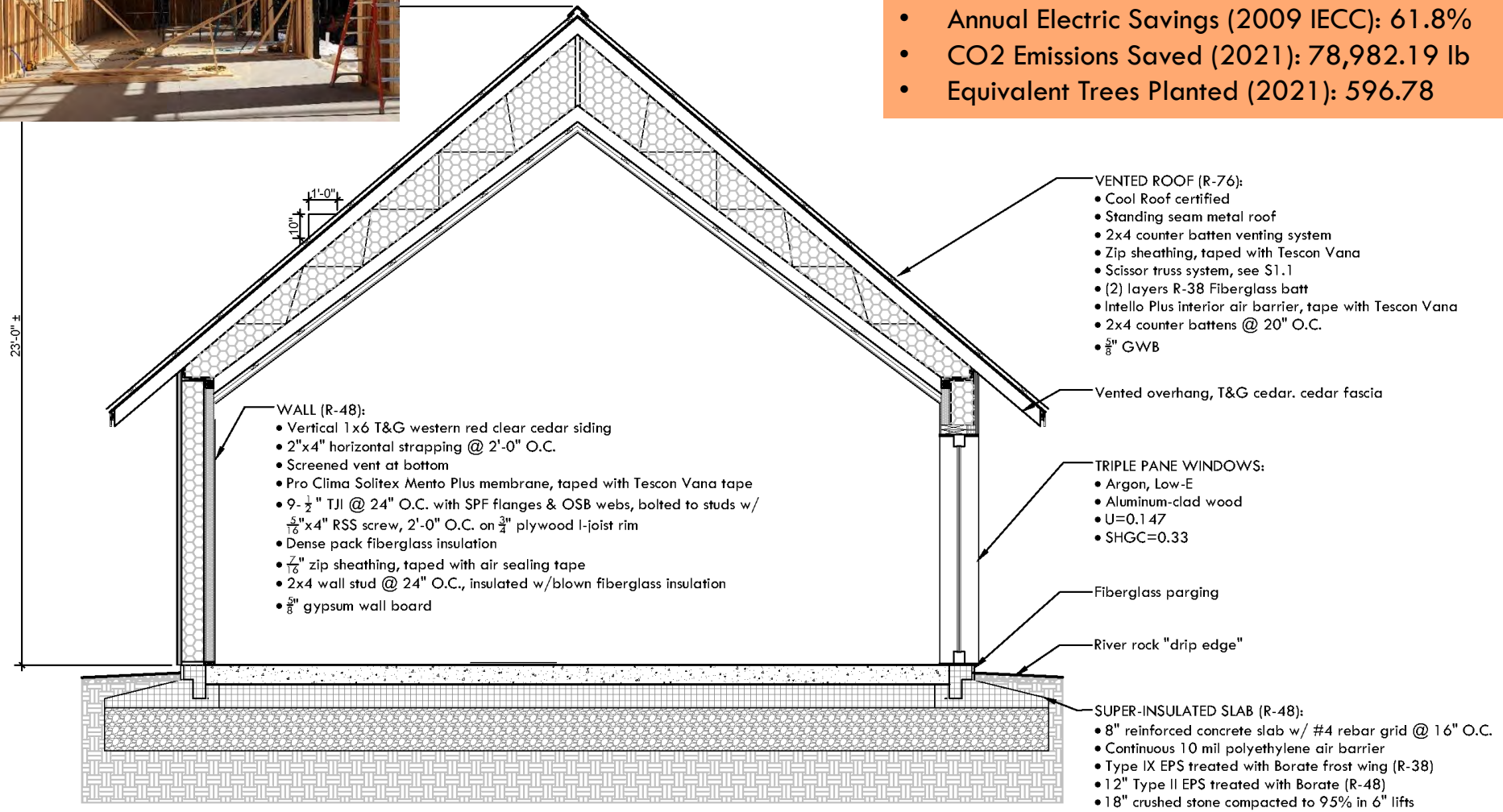
EPA Indoor airPLUS QUALIFIED HOME

Built by: Energy Vision Homes
Verified by: Advanced Building Analysis, LLC
Date: 2020-06-19

New homes that are Indoor airPLUS qualified meet U.S. Environmental Protection Agency guidelines for improved indoor air quality.
www.epa.gov/indoorairplus

CURRENT METRICS

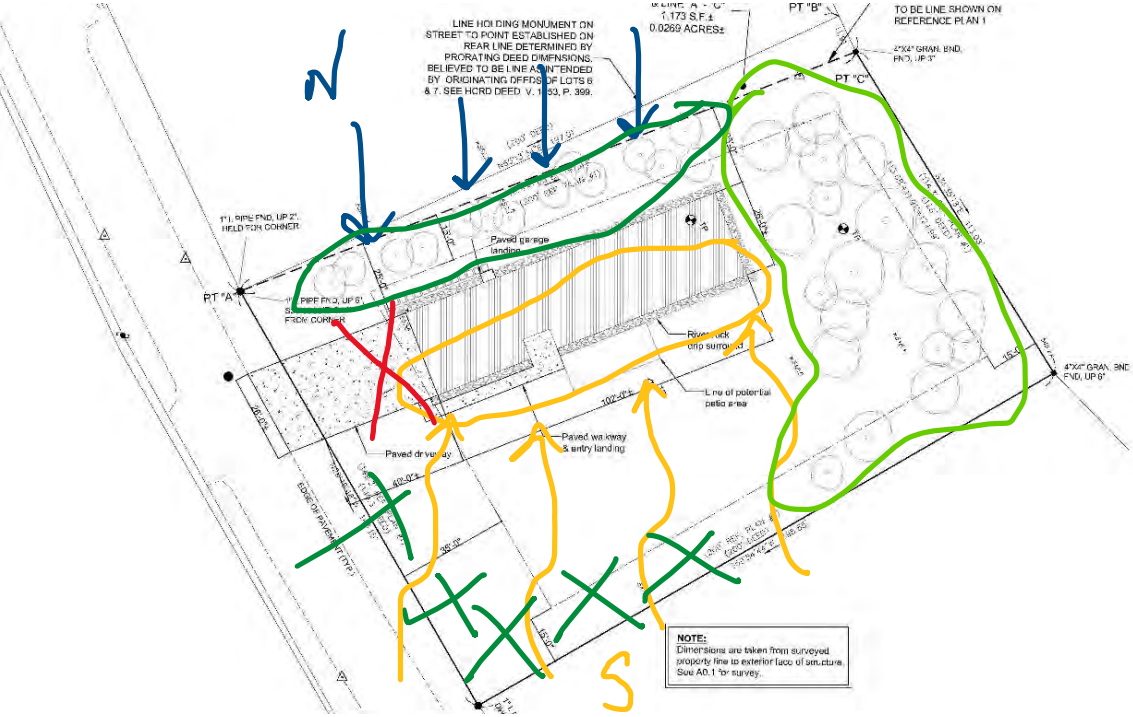
- March 2024 Energy Generated: 470.24 kWh
- March Electric Bill: -$1,192.13
- Lifetime energy (2021): 51.01 MWh
- Annual Electric Savings (2009 IECC): 61.8%
- CO2 Emissions Saved (2021): 78,982.19 lb
- Equivalent Trees Planted (2021): 596.78



Images: DCVL, Section by AVL, PIC by DDC.

SITE CONSIDERATIONS

- Connection to existing utilities
- Least invasive clearing
- Minimal impervious covering
- Improved site drainage



ONSITE CONSTRUCTION

- Modular too expensive
- Local manufacturers
- Local crews, small size

ONSITE CONSTRUCTION

- Congruent with stick framing experience
- Close coordination with CPHC G.C.
- Flat framing
- Crane lifting

Images (& Video) by DCVL. NOTE: the original 5.21.24 BSA webinar included a video – herein at right.

HEALTHY SYSTEMS

- ERV for fresh air MERV 8 filter, 131 CFM, 157 Watts, 78% SRE
- Mitsubishi Ducted mini-split heat pump, 2.9 COP, 17 SEER.
- PV for electricity & EV charging
- Thermal mass concrete floor
- Radiant heat bathroom floors

AGING IN PLACE

- Zero Thresholds
- 3’ Doors
- Wide Corridor
- Low Ramped Entry
- Direct Garage Access
- Light Levels/Options

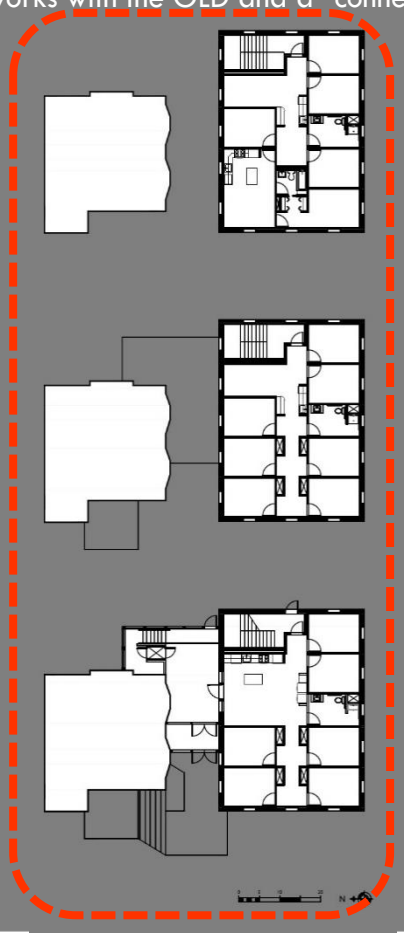
Crafting a Regenerative Approach

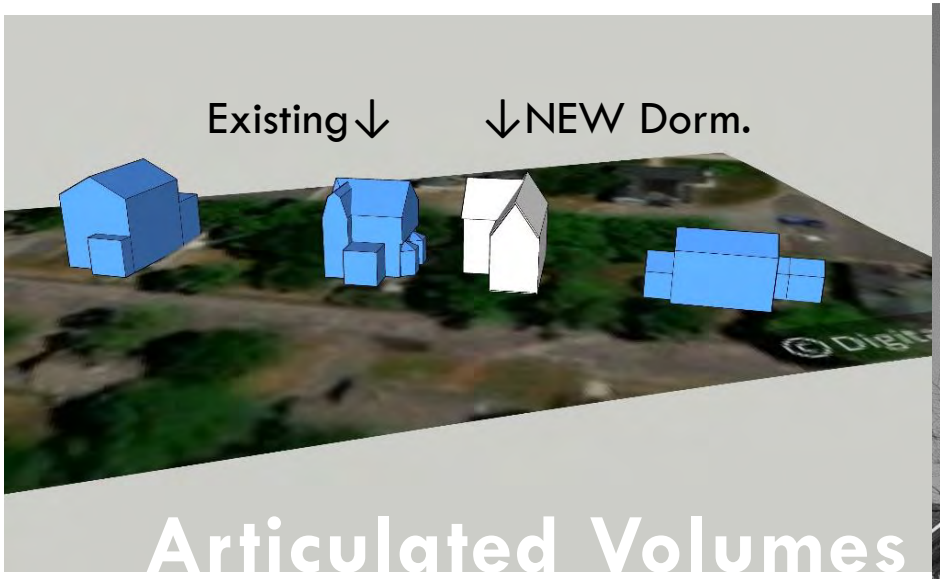
RESIDENTIAL:

New Construction / **Hybrid** (x2) / Renovation

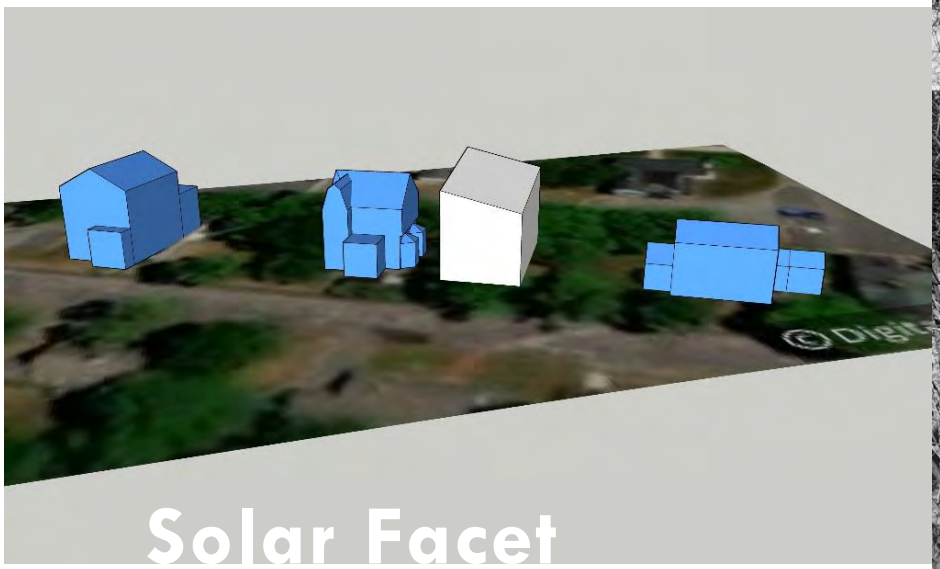
A "Buddy-Building" approach where the NEW works with the OLD and a "connector" unites OLD/NEW and addresses accessibility.

Hybrid-1:
Tufts
Multi-Unit

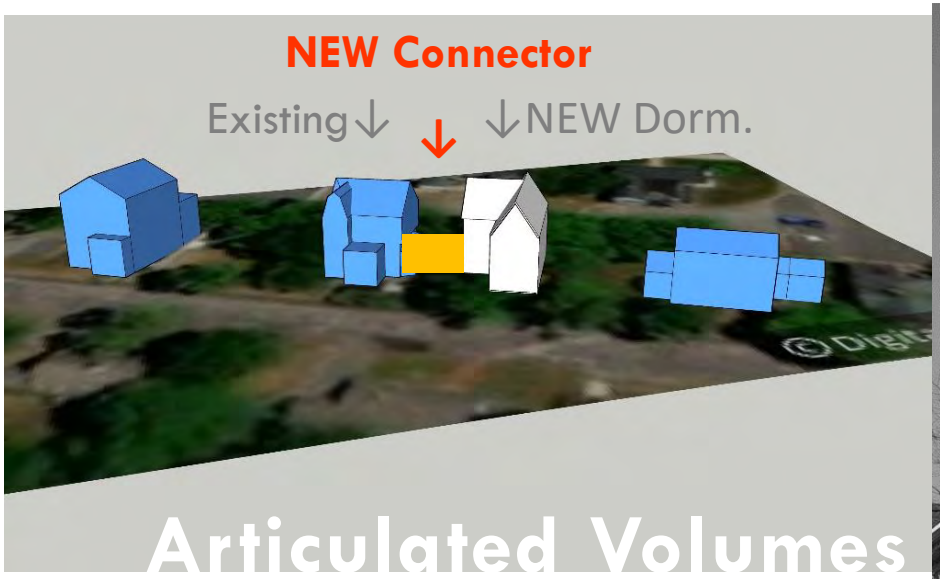




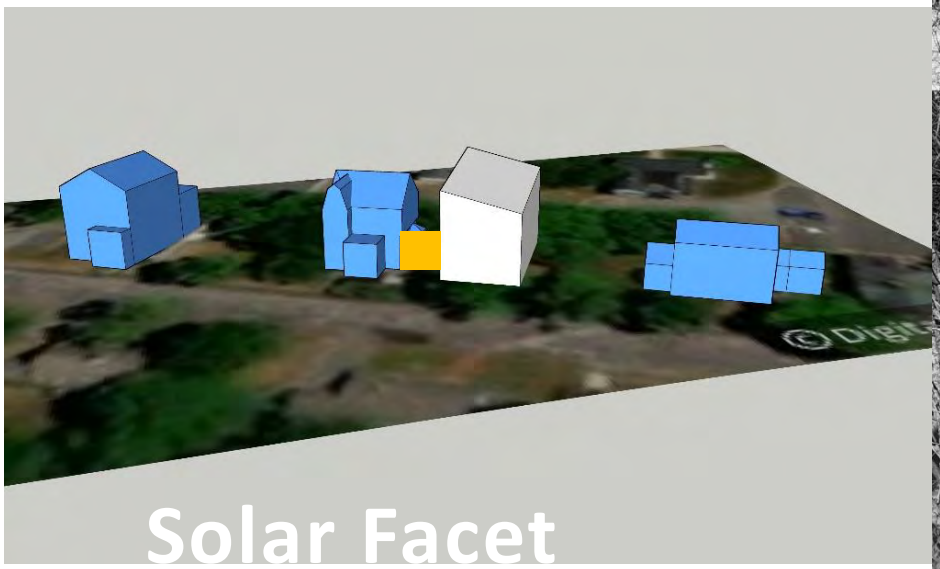
Articulated Volumes



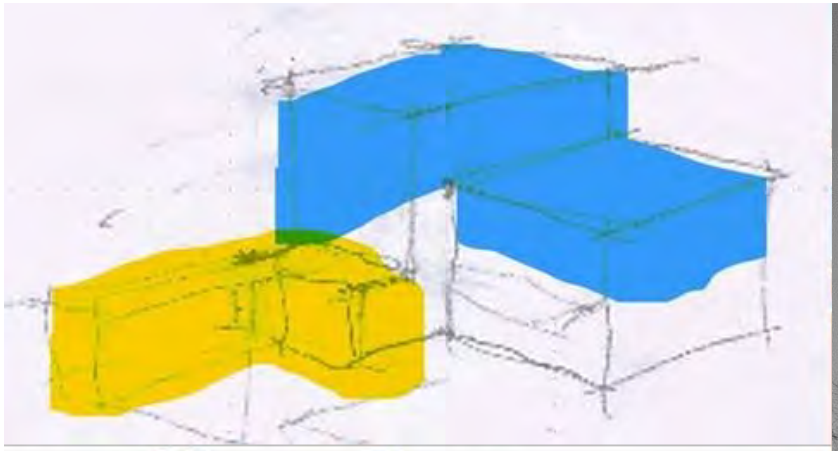
Solar Facet

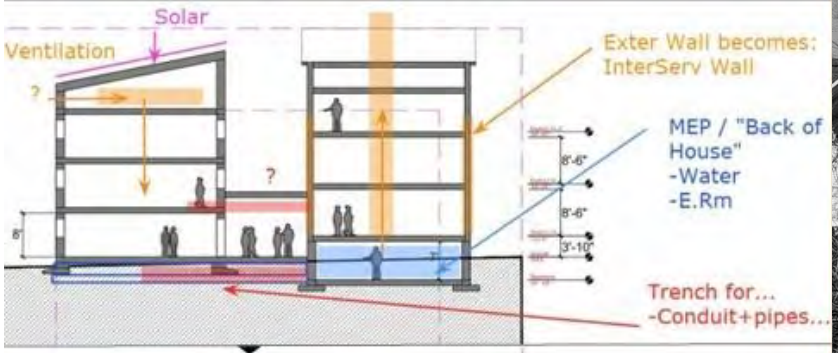


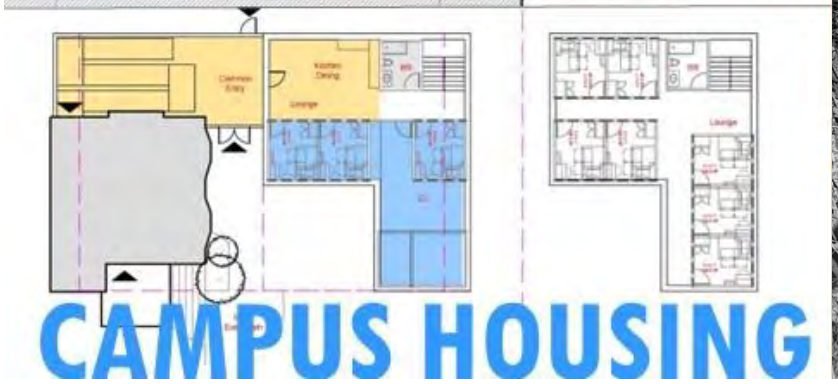
Articulated Volumes

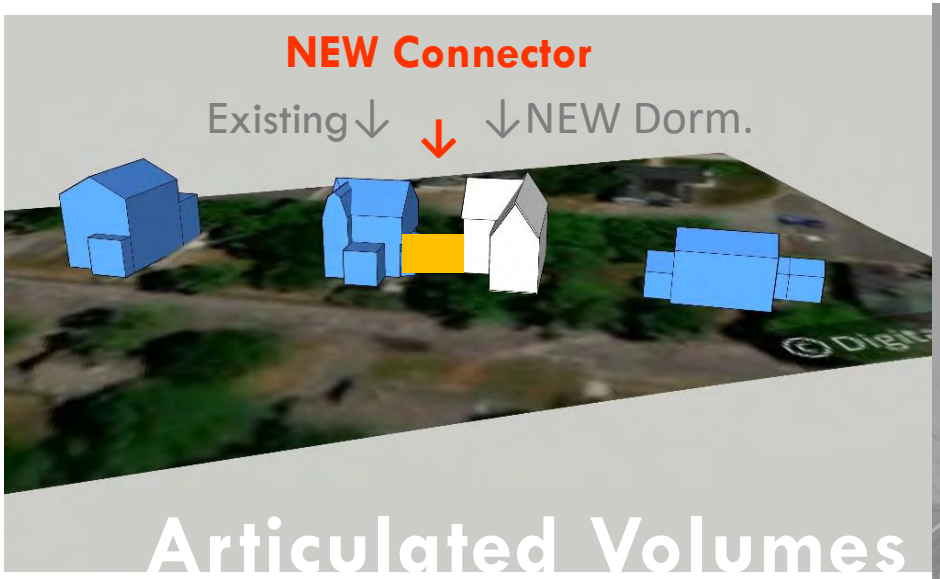


Solar Facet

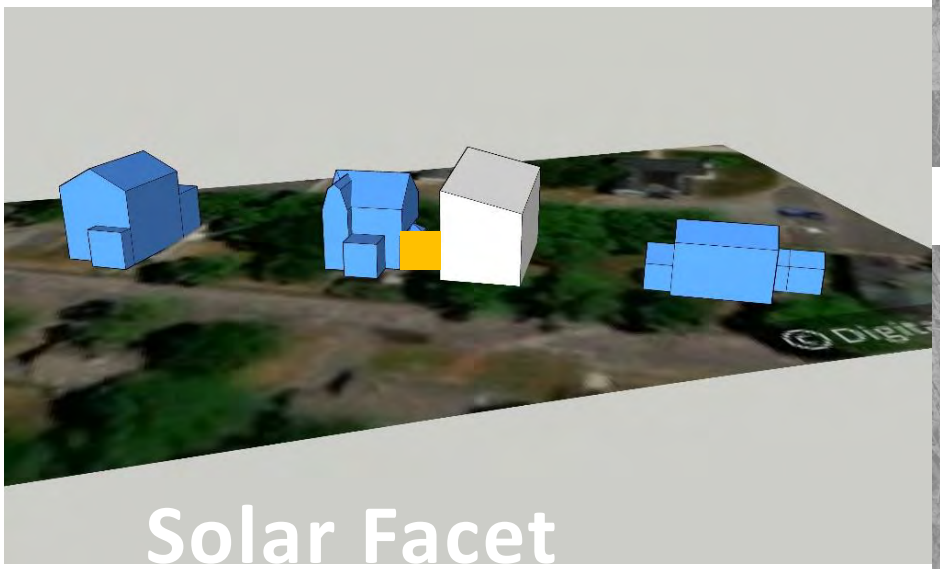



Solar
Ventilation
Exter Wall becomes:
InterServ Wall
MEP / "Back of House"
-Water
-E.Rm
Trench for...
-Conduit+pipes...


CAMPUS HOUSING



Articulated Volumes



Solar Facet

Crafting a Regenerative Approach

RESIDENTIAL:

New Construction / **Hybrid** (x2) / Renovation

"Generative Diagram" records & acknowledges the History of the Place + includes a strategy of *deconstruction* & refurbish for Re-Use.*

Hybrid-2: Hollis
c. 1821

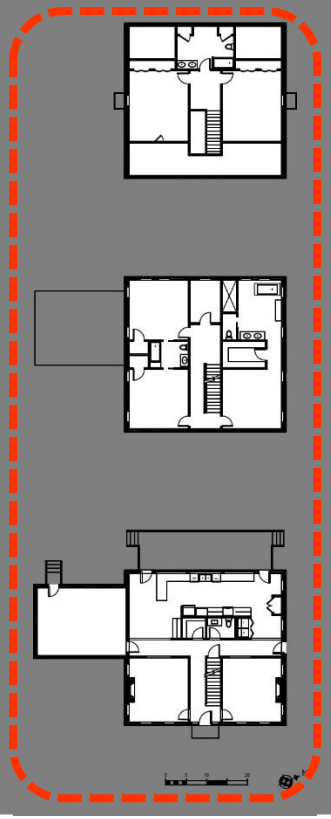
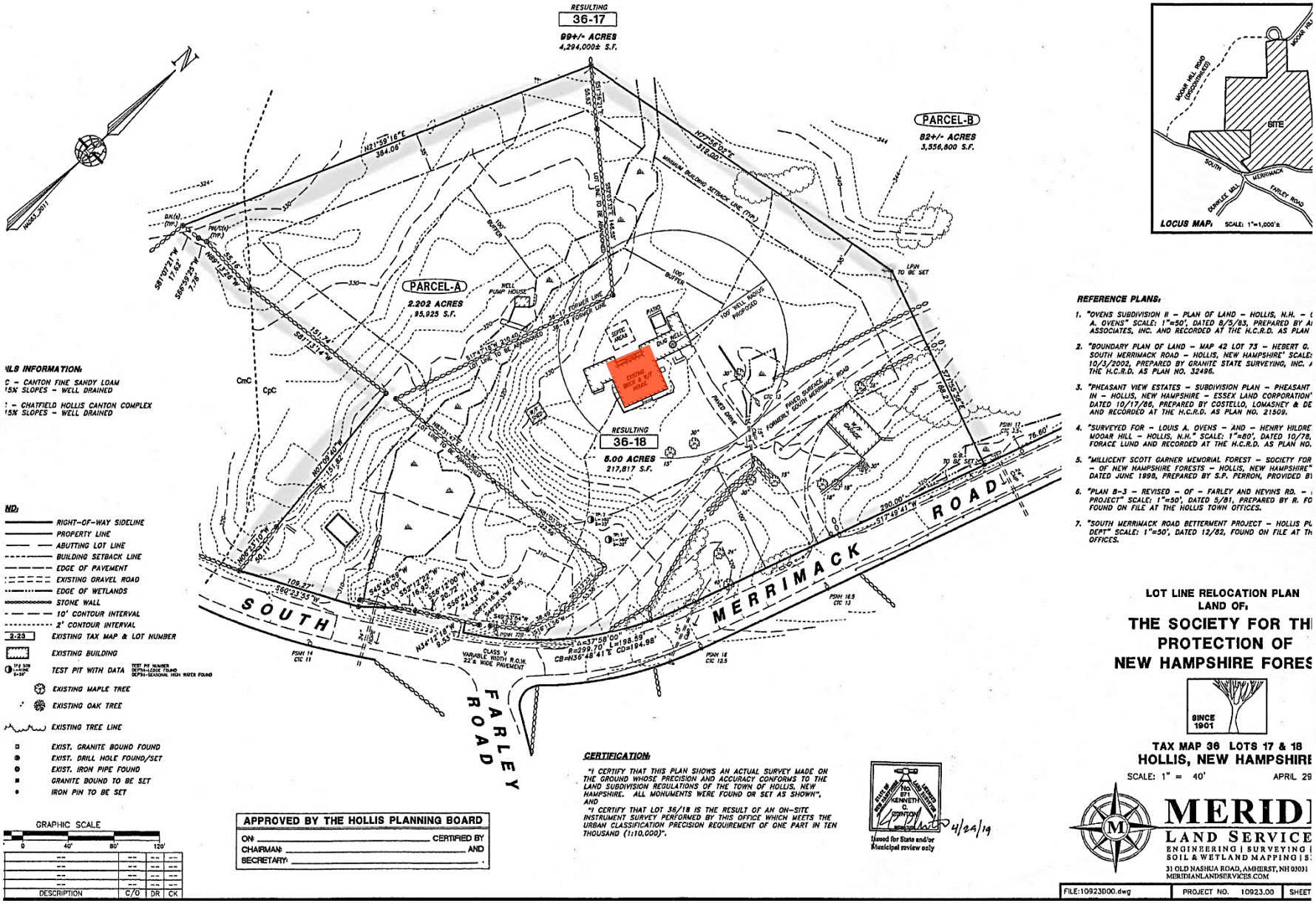


Image: CAD by DCVL © . For definition/use of term "deconstruction" see AIA 2023 Circularity Design doc (@ www.aiany.org).



SOIL INFORMATION:

C – CANTON FINE SANDY LOAM 15% SLOPES – WELL DRAINED

– CHATFIELD HOLLIS CANTON COMPLEX 15% SLOPES – WELL DRAINED

LEGEND:

- RIGHT-OF-WAY SIDELINE
- PROPERTY LINE
- ABUTTING LOT LINE
- BUILDING SETBACK LINE
- EDGE OF PAVEMENT
- EXISTING GRAVEL ROAD
- EDGE OF WETLANDS
- STONE WALL
- 10' CONTOUR INTERVAL
- 2' CONTOUR INTERVAL
- 2-25 EXISTING TAX MAP & LOT NUMBER
- EXISTING BUILDING
- TEST PIT WITH DATA (TEST PIT NUMBER; DEPTH-LEDGE FOUND; DEPTH-SEASONAL HIGH WATER FOUND)
- EXISTING MAPLE TREE
- EXISTING OAK TREE
- EXISTING TREE LINE
- EXIST. GRANITE BOUND FOUND
- EXIST. DRILL HOLE FOUND/SET
- EXIST. IRON PIPE FOUND
- GRANITE BOUND TO BE SET
- IRON PIN TO BE SET

REFERENCE PLANS:

1. "OVENS SUBDIVISION II – PLAN OF LAND – HOLLIS, N.H. – [illegible] A. OVENS" SCALE: 1"=50', DATED 8/5/83, PREPARED BY A[illegible] ASSOCIATES, INC. AND RECORDED AT THE H.C.R.D. AS PLAN [illegible]
2. "BOUNDARY PLAN OF LAND – MAP 42 LOT 73 – HEBERT G. SOUTH MERRIMACK ROAD – HOLLIS, NEW HAMPSHIRE" SCALE: 10/3/2002, PREPARED BY GRANITE STATE SURVEYING, INC. [illegible] THE H.C.R.D. AS PLAN NO. 32496.
3. "PHEASANT VIEW ESTATES – SUBDIVISION PLAN – PHEASANT [illegible] IN – HOLLIS, NEW HAMPSHIRE – ESSEX LAND CORPORATION" DATED 10/17/86, PREPARED BY COSTELLO, LOMASNEY & DE[illegible] AND RECORDED AT THE H.C.R.D. AS PLAN NO. 21509.
4. "SURVEYED FOR – LOUIS A. OVENS – AND – HENRY HILDRE[illegible] MOOAR HILL – HOLLIS, N.H." SCALE: 1"=20', DATED 10/78, [illegible] FORACE LUND AND RECORDED AT THE H.C.R.D. AS PLAN NO.
5. "MILLICENT SCOTT GARNER MEMORIAL FOREST – SOCIETY FOR [illegible] – OF NEW HAMPSHIRE FORESTS – HOLLIS, NEW HAMPSHIRE" DATED JUNE 1998, PREPARED BY S.P. PERRON, PROVIDED B[illegible]
6. "PLAN 8-3 – REVISED – OF – FARLEY AND NEVINS RD. – [illegible] PROJECT" SCALE: 1"=50', DATED 5/81, PREPARED BY R. FO[illegible] FOUND ON FILE AT THE HOLLIS TOWN OFFICES.
7. "SOUTH MERRIMACK ROAD BETTERMENT PROJECT – HOLLIS PU[illegible] DEPT" SCALE: 1"=50', DATED 12/82, FOUND ON FILE AT TH[illegible] OFFICES.

APPROVED BY THE HOLLIS PLANNING BOARD

ON: _____ CERTIFIED BY

CHAIRMAN: _____ AND

SECRETARY: _____.

CERTIFICATION:

"I CERTIFY THAT THIS PLAN SHOWS AN ACTUAL SURVEY MADE ON THE GROUND WHOSE PRECISION AND ACCURACY CONFORMS TO THE LAND SUBDIVISION REGULATIONS OF THE TOWN OF HOLLIS, NEW HAMPSHIRE. ALL MONUMENTS WERE FOUND OR SET AS SHOWN", AND

"I CERTIFY THAT LOT 36/18 IS THE RESULT OF AN ON-SITE INSTRUMENT SURVEY PERFORMED BY THIS OFFICE WHICH MEETS THE URBAN CLASSIFICATION PRECISION REQUIREMENT OF ONE PART IN TEN THOUSAND (1:10,000)".

STATE OF NEW HAMPSHIRE — No. 877 — KENNETH C. COTTON — LAND SURVEYOR

4/24/19

Issued for State and/or Municipal review only

LOT LINE RELOCATION PLAN
LAND OF:
THE SOCIETY FOR TH[illegible]
PROTECTION OF
NEW HAMPSHIRE FORES[illegible]

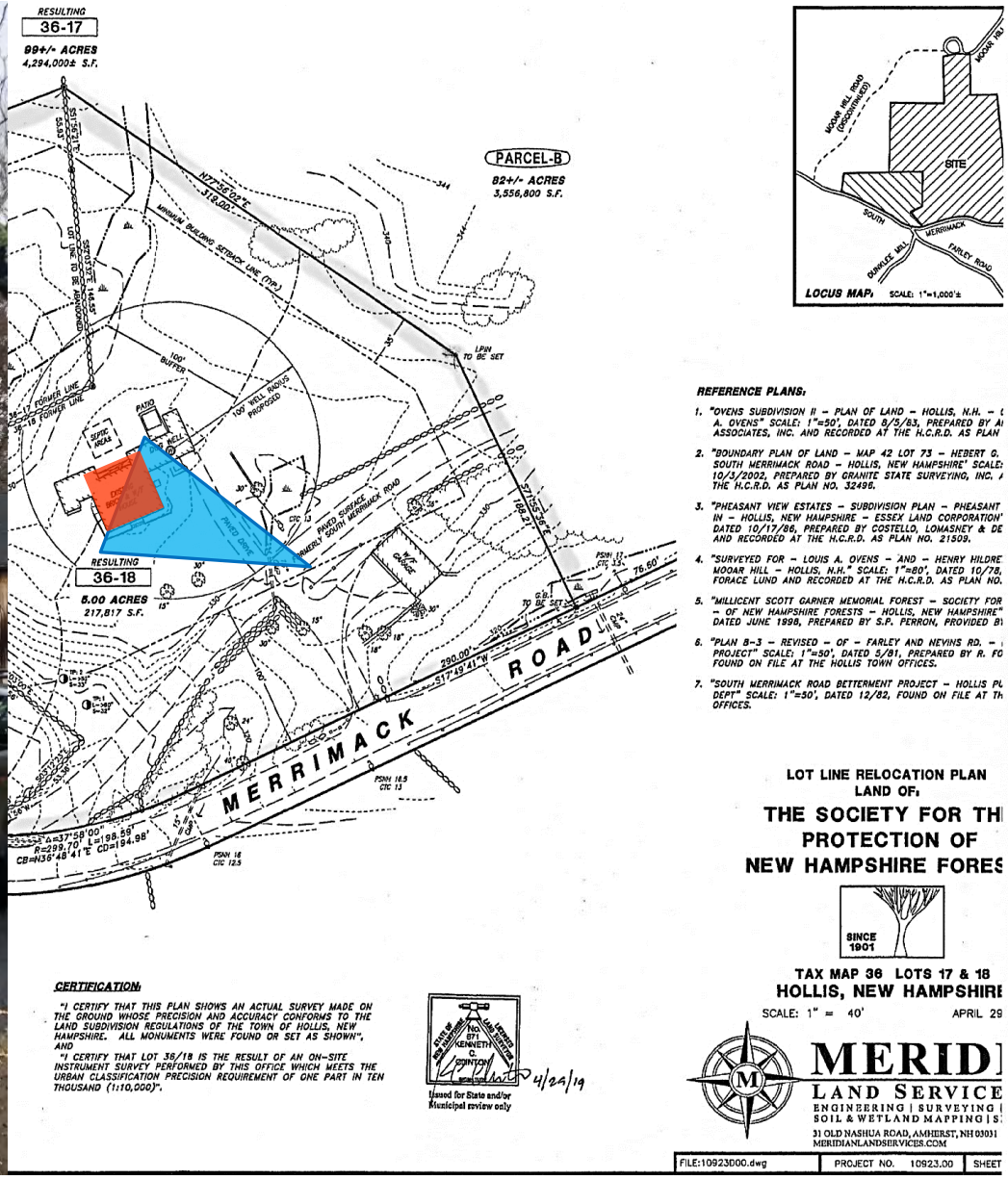
SINCE 1901

TAX MAP 36 LOTS 17 & 18
HOLLIS, NEW HAMPSHIR[illegible]

SCALE: 1" = 40' APRIL 29

MERIDI[illegible]
LAND SERVICE
ENGINEERING | SURVEYING |
SOIL & WETLAND MAPPING | S[illegible]
31 OLD NASHUA ROAD, AMHERST, NH 03031
MERIDIANLANDSERVICES.COM

FILE:10923D00.dwg | PROJECT NO. 10923.00 | SHEET


RESULTING
36-17
89+/- ACRES
4,294,000± S.F.
PARCEL-B
82+/- ACRES
3,556,800 S.F.
RESULTING
36-18
5.00 ACRES
217,817 S.F.
MERRIMACK ROAD
LOCUS MAP: SCALE: 1"=1,000'±
SITE
MOOAR HILL ROAD (DISCONTINUED)
SOUTH MERRIMACK
FARLEY ROAD
REFERENCE PLANS:
1. "OVENS SUBDIVISION II – PLAN OF LAND – HOLLIS, N.H. – L. A. OVENS" SCALE: 1"=50', DATED 8/5/83, PREPARED BY A ASSOCIATES, INC. AND RECORDED AT THE H.C.R.D. AS PLAN
2. "BOUNDARY PLAN OF LAND – MAP 42 LOT 73 – HEBERT G. SOUTH MERRIMACK ROAD – HOLLIS, NEW HAMPSHIRE" SCALE: 10/3/2002, PREPARED BY GRANITE STATE SURVEYING, INC. THE H.C.R.D. AS PLAN NO. 32498.
3. "PHEASANT VIEW ESTATES – SUBDIVISION PLAN – PHEASANT IN – HOLLIS, NEW HAMPSHIRE – ESSEX LAND CORPORATION" DATED 10/17/86, PREPARED BY COSTELLO, LOMASNEY & DE AND RECORDED AT THE H.C.R.D. AS PLAN NO. 21509.
4. "SURVEYED FOR – LOUIS A. OVENS – AND – HENRY WILDRE MOOAR HILL – HOLLIS, N.H." SCALE: 1"=20', DATED 10/78, FORACE LUND AND RECORDED AT THE H.C.R.D. AS PLAN NO.
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STATE OF NEW HAMPSHIRE
No. 871
KENNETH C. COTTON
LAND SURVEYOR
4/24/19
Issued for State and/or Municipal review only
LOT LINE RELOCATION PLAN
LAND OF:
THE SOCIETY FOR TH
PROTECTION OF
NEW HAMPSHIRE FORES
SINCE 1901
TAX MAP 36 LOTS 17 & 18
HOLLIS, NEW HAMPSHIRE
SCALE: 1" = 40'
APRIL 29
MERIDI
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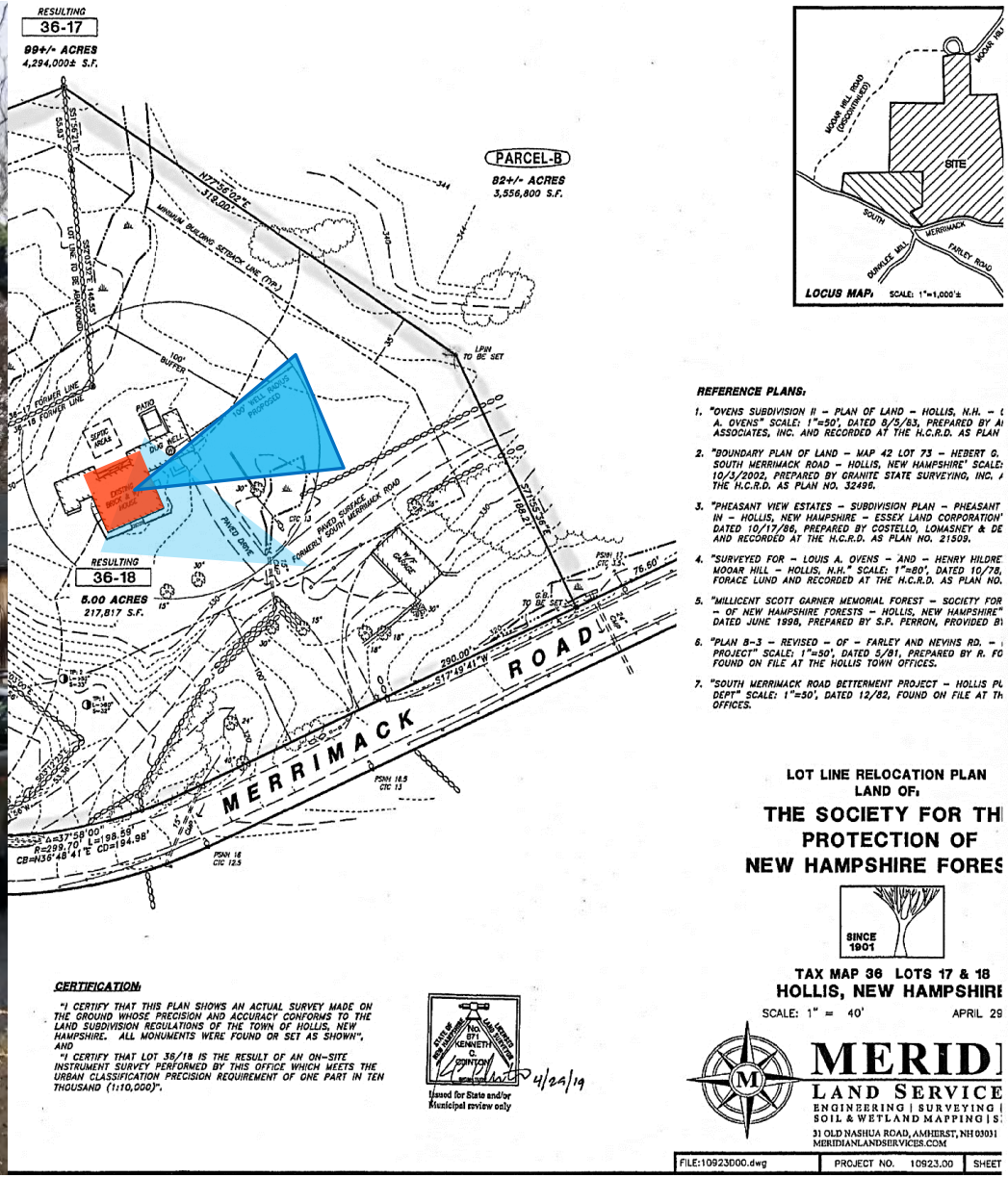
31 OLD NASHUA ROAD, AMHERST, NH 03031
MERIDIANLANDSERVICES.COM
FILE:10923D00.dwg
PROJECT NO. 10923.00
SHEET


RESULTING
36-17
89+/- ACRES
4,294,000± S.F.
PARCEL-B
82+/- ACRES
3,556,800 S.F.
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217,817 S.F.
MERRIMACK ROAD
LOCUS MAP: SCALE: 1"=1,000'±
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MOOAR HILL ROAD (DISCONTINUED)
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Image by DDC

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Images by DDC

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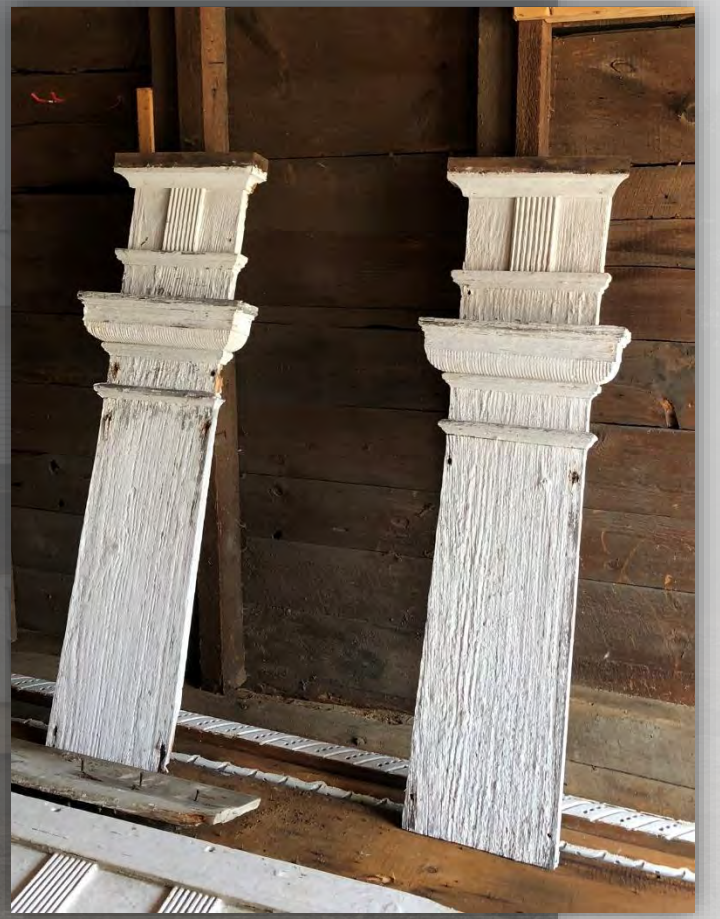


Images by DCVL

REUSED:

- Interior Doors
- Mantels
- Wainscot
- Wood Floors
- Hardware
- Plumbing Fixtures
- Exterior Friezes
- Exterior Trims

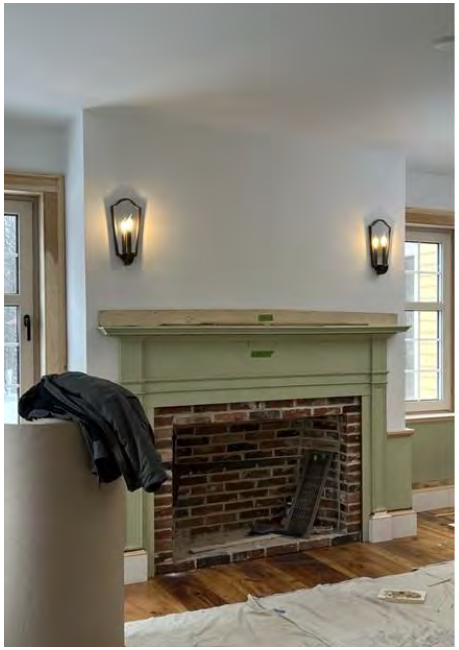
REUSED:

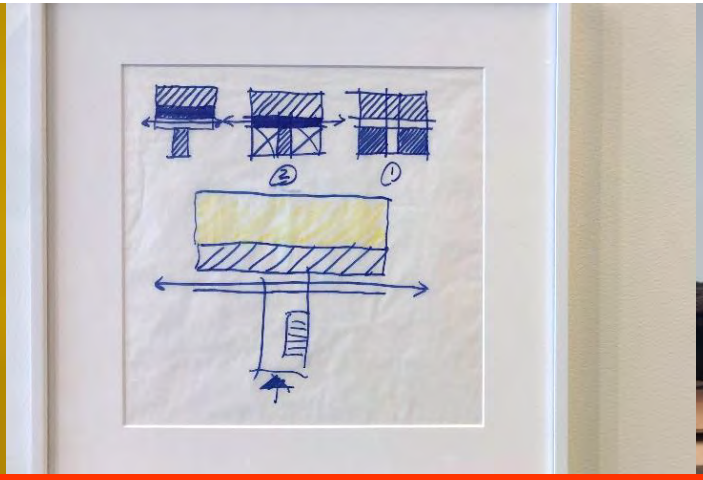
- Exterior Trims
- Exterior Pilasters
- Brick
- Granite
- Wood Beams
- Original Window

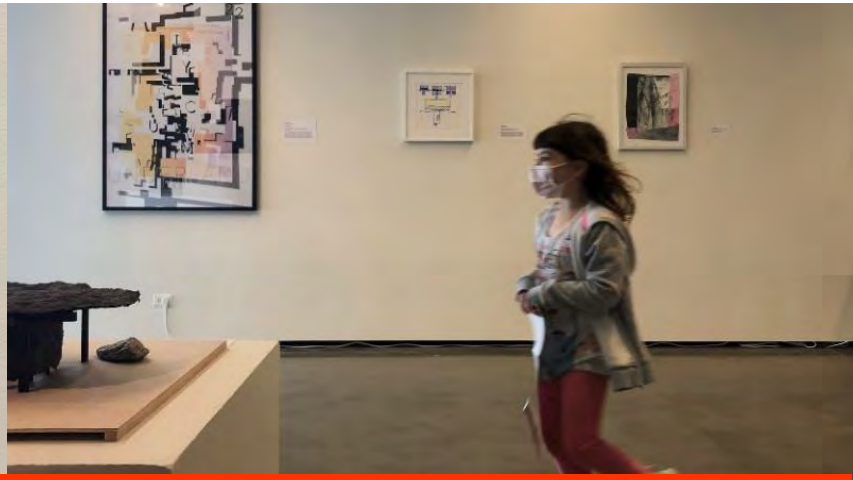
Before…

Images by DDC

Images by DDC



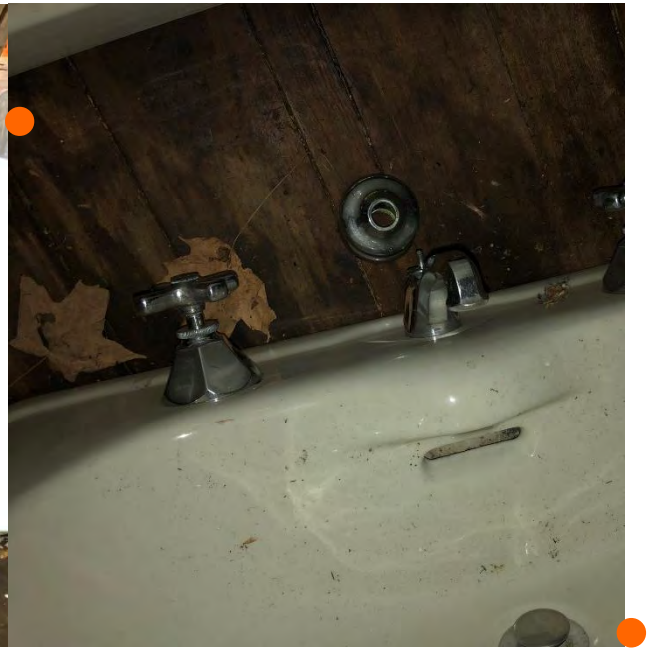




"Generative Diagram" sketch by David T. De Celis, RISD Faculty Exhibition '21 graphics by Ramon Tejada.

Images: Top – DCVL, Bott – by DDC

Before . . .



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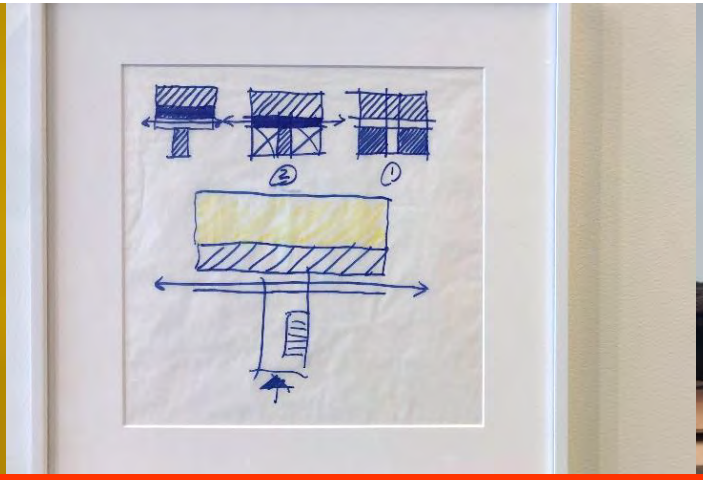
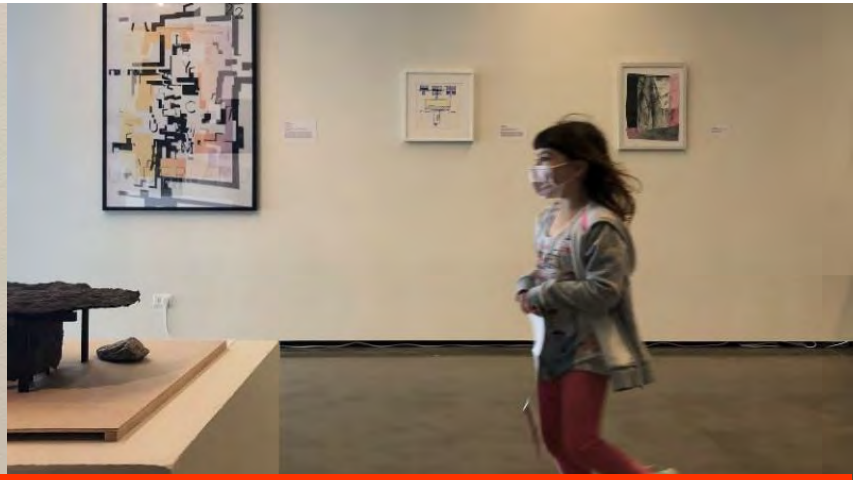


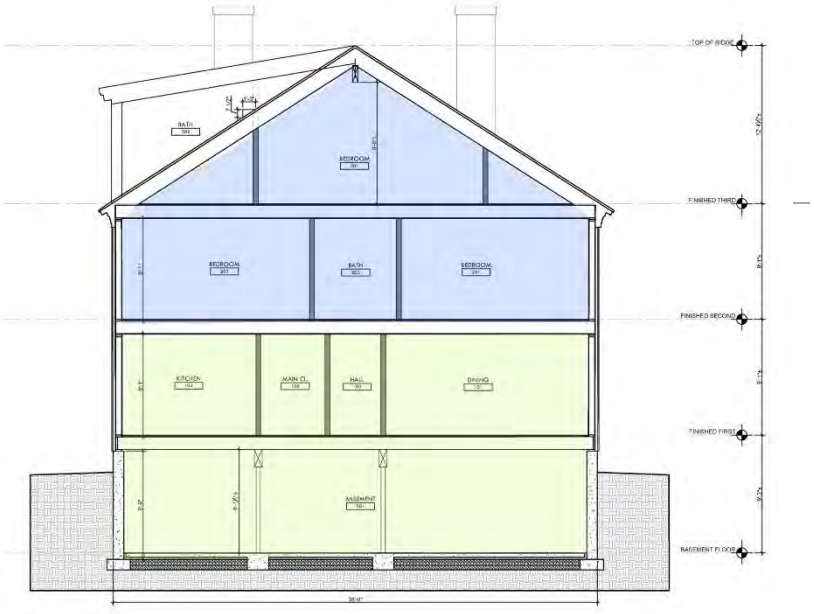


"Generative Diagram" sketch by David T. De Celis, RISD Faculty Exhibition '21 graphics by Ramon Tejada.

Images: Top – DCVL, Bott – by DDC

HEALTHY SYSTEMS/ENVELOPE

- Multi-unit ERV for fresh air
- Multi-unit Mitsubishi air heat pump for heating/cooling to accommodate SF and structure efficiently
- Triple pane casement windows for increased natural ventilation
- “6/6” historic style AND technology

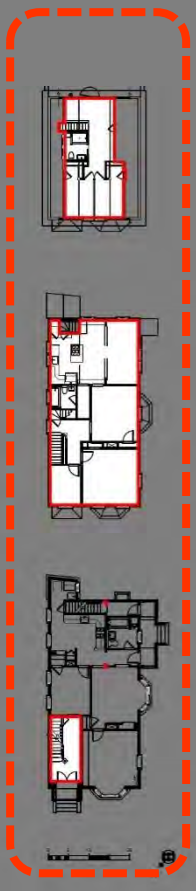


Crafting a Regenerative Approach

RESIDENTIAL:

New Construction / Hybrid (x2) / **Renovation**

Windsor Residence:
a *Strategic*
Renovation /
Work-in-progress



RISD Dept. of Interior Architecture
INTAR-2315-01 Building Materials

Precedents / Practice:

…Material / History/
Research / Structure…

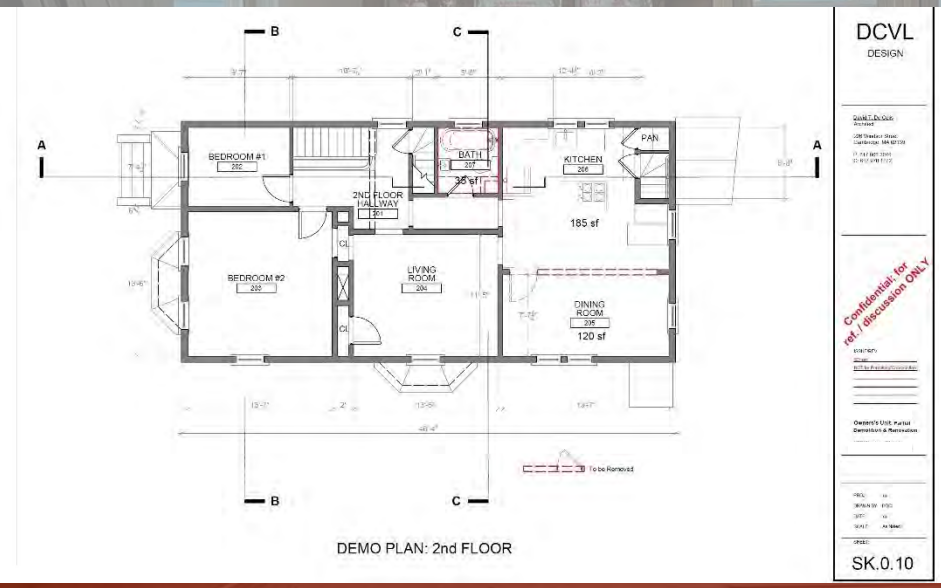
Excerpt for BSA Webinar 5.21.24

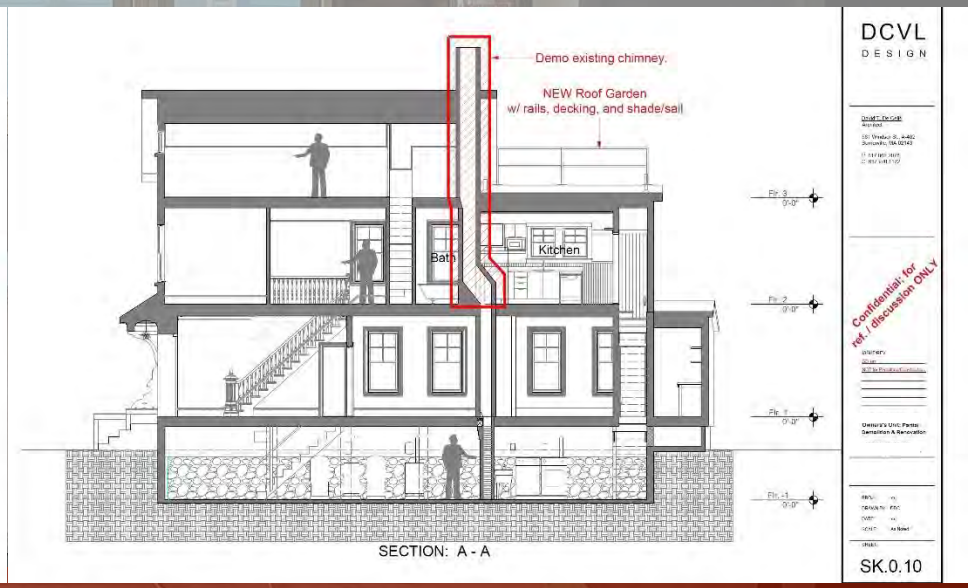
Fall term 2023 – David T. De Celis

DCVL© – current work – Windsor Street

RISD Dept. of Interior Architecture
INTAR-2315-01 Building Materials

Precedents / Practice:





RISD Dept. of Interior Architecture
INTAR-2315-01 Building Materials

Precedents / Practice:

…Material / History/
Research / Structure…

Fall term 2023 – David T. De Celis

DCVL Design Principal/CFO David Tomás De Celis on site of a current renovation project in Cambridge, MA. © D.T. De Celis

What to Keep… What to Demo… How to Adapt?

David De Celis
AIA, NCARB, LEED Green Associate, Principal at DCVL Design

3 articles

May 11, 2023

Open Immersive Reader

What to Keep… What to Demo… How to Adapt? In architectural renovation and adaptive reuse work at DCVL Design we often hear these questions. It's something that our founding partners, Amy Van Lauwe and David De Celis, constantly think about–not only in the office, but with their design students as well (Amy teaches at the Boston Architectural College + Suffolk University, and David teaches in RISD's INTAR department which specializes in adaptive reuse).

How we stay true to an existing structure—respecting its role in architectural history—while also engaging a future-forward mindset, is a question we're constantly designing around. The answer usually comes in the form of a multi-pronged approach; for instance, expressing architectural-form and character of space, while also improving practical and performative aspects, namely

Excerpt for BSA Webinar 5.21.24

https://www.linkedin.com/posts/david-de-celis-66a75974_activity-7062530663312154624-okdT?utm_source=share&utm_medium=member_desktop

RISD Dept. of Interior Architecture
INTAR-2315-01 Building Materials

Precedents / Practice:

…Material / History/ Research / Structure…

Fall term 2023 – David T. De Celis

Wood

Interiority, 2020, Vol. 3, No. 2, 201-218
DOI: 10.7454/in.v3i2.97
ISSN 2615-3386 (online)
ISSN 2614-6584 (print)

The Charms of an American Queen Anne: Rediscovered *a-lá* COVID-19

David T. De Celis

Boston Architectural College/ Rhode Island School of Design USA

Abstract

This moment, the 2020 COVID-19 pandemic, has provided an opportunity—sometimes forced via crisis, or via moments of quiet reflection—to consider inside, interior time and space, in new ways. Architectural styles have come to us from foreign lands. Numerous domestic structures were influenced by British events from the 1700s–1800s. These styles—these architectures—were transformed by local/regional/national influences and events—events like this current international pandemic—that push the proverbial pause button, and cause us to re-think design. The author, who now resides and works (along with his family) in an 1886 Queen Anne style home, contemplates the various attributes and transformations of domestic architectures and the influences that shape them over time, asking: Why Queen Anne in America? How was it Victorian? And why is it relevant today? Empirical methods include observations and precedents-analysis, design work, the study of technological advances and interior-architecture history of the Victorian era. Emphasis on domesticity acknowledges both past and present by recognizing the importance of domestic architecture from the late 1700s through the 1800s, and into the present. Thus, we better understand how/why the Queen Anne style became ubiquitous in New England, and how its attributes of innate flexibility may help us today.

Keywords: architecture, domestic, Queen Anne, flexibility, COVID-19

Correspondence Address: David T. De Celis, Boston Architectural College & Rhode Island School of Design, 226 Windsor Street, Cambridge, MA 02139, USA. Email: david@dcvl-design.com

…for BSA Webinar 5.21.24

L – "Building Movers" pic by DDC ©

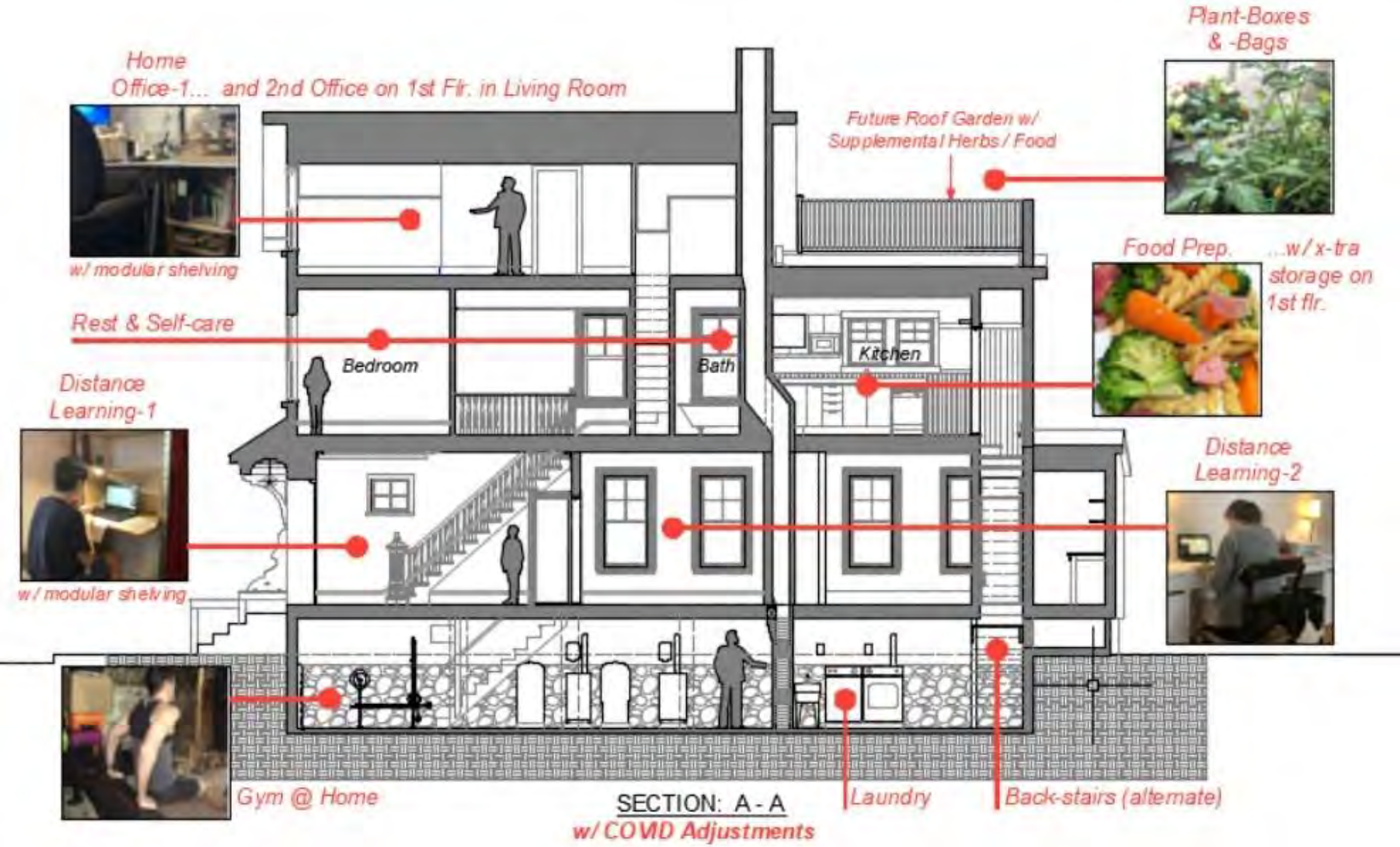
RISD Dept. of Interior Architecture
INTAR-2315-01 Building Materials

Precedents / Practice:

…Material / History/ Research / Structure…

Excerpt for BSA Webinar 5.21.24

L – "Overseas Highway" by K. Storm, 1994 / **R** – "Building Movers" pic by DDC ©

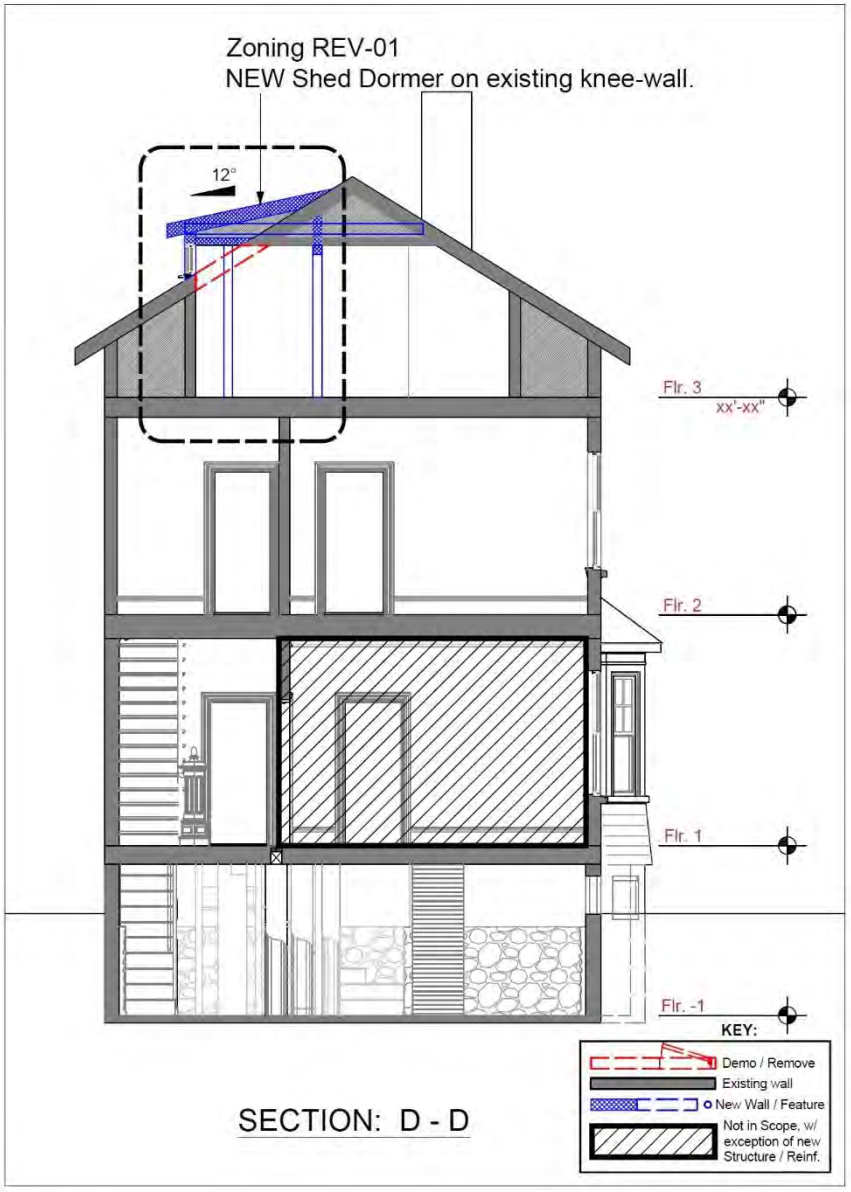


Fall term 2023 – David T. De Celis

DCVL – current work, Windsor Street; composite section by DDC ©, for Interiority

ENERGY $$$ / METRICS:

Before	After	Delta
$384/mnth	**$256**/mnth	**$128**
Gas/Elect: $232/$152	Gas/Elect: $145/$111	
kWh		
12.84	**5.89**	***Half!***



Images: Top L – https://toyotomiusa.com/product/tad-t40lw-r-portable-air-conditioner-and-heat-pump/ others by DDC

DCVL PHILOSOPHY & BUSINESS MODEL

SUFFOLK UNIVERSITY BOSTON

DESIGN

ACADEMICS

VOLUNTEERISM

R.I.S.D. Department of Interior Architecture Fall 2023
INTAR-2315-01 Building Materials

Building Materials in the Technical and Tectonic Arts — History, Theory and Practice:
INSTRUCTOR: David T. De Celis, AIA e: ddecelis@risd.edu c: 617.970.1172

LAB-Wood Carbon Footprint

		Qingzhan Dai (Fiona)	Kunal Duzgun ("ku-tooda")	Siya Gidhar ("see-ya")	Abby Haus	Kylee Hong	Hsin-Yu Lee (Rebecca)	Pilar Rivera	Kiya Smith ("Key-ya")	Gowing Uhenoy	Rageshre Varma	John Zhao
		1	2	3	4	5	6	8	9	10	11	12
I.	Proposed Project Site/Location	Dorm Flr PVD	Platform PVD/Varied	Coffeetable PVD	Bookshelf PVD	Side-table PVD	wall-Shelf	Box PVD	180of flr'g VT	Sill shelf PVD	Chess brd-table PVD	Vrd Chest PVD
					2.8 ft² *	10ft² *						
II.	Vol/Quantity	2.000 m³	0.019 m³	0.731 m³	0.074 m³	0.283 m³	1.287 m³	0.0004 m³	45.307 m³	0.0045 m³	0.0459 m³	0.058 m³
III.	1 Species	Wh Oak	Poplar Ply w/ Beech Vnr	Camatillo	Fir	Maple	Cypress	Cherry	Distressed Oak	Plyboo	BloodWd	African Mahogany
	Proj. Quantity	2.000 m³	0.019 m³									
	CO2e to Gate	25.080	3.689 kg/m³	130.800 lb	419.500 lb	110.320 lb	20.030 lb	0.945 lb	88.802 lb	19.760 lb	126.920 lb	100.110 lb
	CO2e to Site	4.090	2.700 kg/m³	11.030 lb	3.130 lb	0.160 lb	7.660 lb	0.090 lb	201.670 lb	0.280 lb	40.000 lb	2.040 lb
	TOTAL - 1	**29.170**	**6.389** kg/m³	**141.830** lb	**422.630** lb	**110.480**	**27.690** lb	**1.035** lb	**290.472** lb	**20.040** lb	**166.920** lb	**102.150** lb
	CO2/Unit	**14.585**	**339.840** kg/m³	**193.995** kg/m³	**5,711.216** kg/m³		**21.515** kg/m³	**2,587.500** kg/m³	**6.411** kg/m³		**3,637.887** kg/m³	**1,761.207** kg/m³
	2 Species	Bamboo	MDF	E. Wh. Pine	Cherry Ply	Bubinga	Bamboo	E Red Cedar	Kebony	HrdWd Ply	TulipWd	Aromatic Cedar
	Proj. Quantity	2.000 m³	0.019 m³									
	CO2e to Gate	78.620	14.283 kg/m³	85.600 lb	10.390 lb	416.640 lb	5.179 lb	0.945 lb	12409.930 lb	0.186 lb	25.600 lb	8.750 lb
	CO2e to Site	75.620	4.120 kg/m³	1.740 lb	7.750 lb	1.440 lb	9.170 lb	0.030 lb	153.600 lb	0.070 lb	7.500 lb	10.920 lb
	TOTAL - 2	**154.240**	**18.403** kg/m³	**87.340** lb	**17.640** lb	**418.080**	**14.349** lb	**0.975** lb	**12,563.530** lb	**0.256** lb	**33.100** lb	**19.670** lb
	CO2/Unit	**77.120**	**978.883** kg/m³	**119.464** kg/m³	**238.378** kg/m³	**1477.314**	**11.149** kg/m³	**2,437.500** kg/m³	**277.298** kg/m³	**56.889**	**721.388** kg/m³	**339.138** kg/m³
			Verify								OK	

Averages: As Of 21-Sep 111.086 | 1819.334 | 908.2681

ACADEMICS

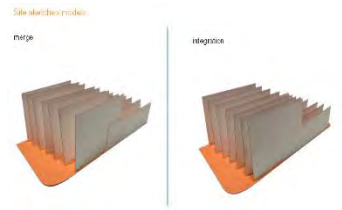
ACADEMICS

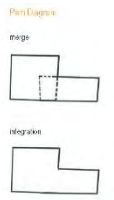
This matrix (mid) of Bio-polymer sheets is the product of a Bio-Lab assignment in David's RISD/INTAR Materials class. It was produced by course students & TA in RISD's NatureLab Biodesign Makerspace, under the tutelage of Director Jennifer Bissonnette and her staff (Fall '23)**.**

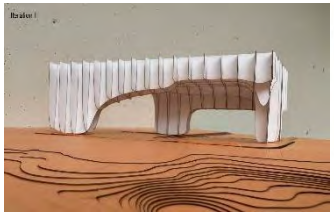
Media: Binder clips, Wax paper, Tape, and Bio-Polymer Sheets made with potato starch, gelatin, and glycerin.

SUFFOLK UNIVERSITY BOSTON

DCVL Design, for BSA SEC: ACADEMICS & REGENERATIVE THINKING

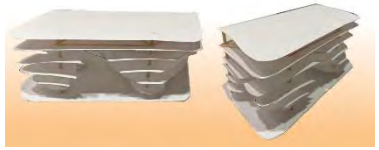






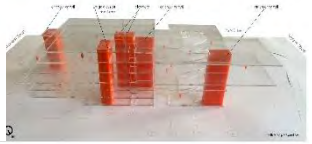
Study model 1 for column placement

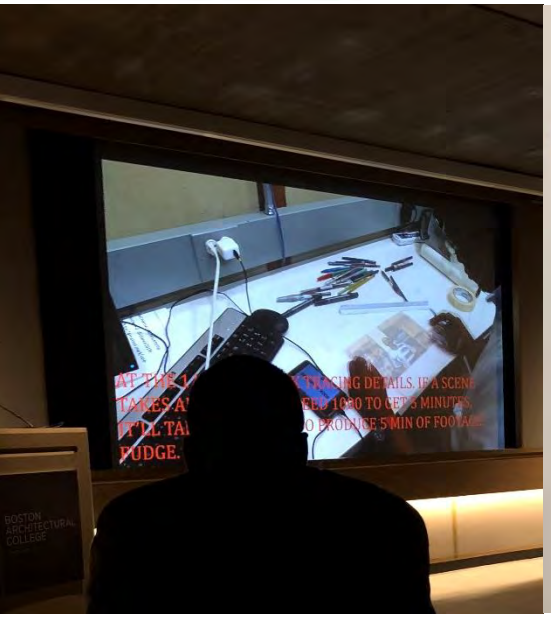
Iteration III - Program



Study model 2 for column placement

Iteration IV





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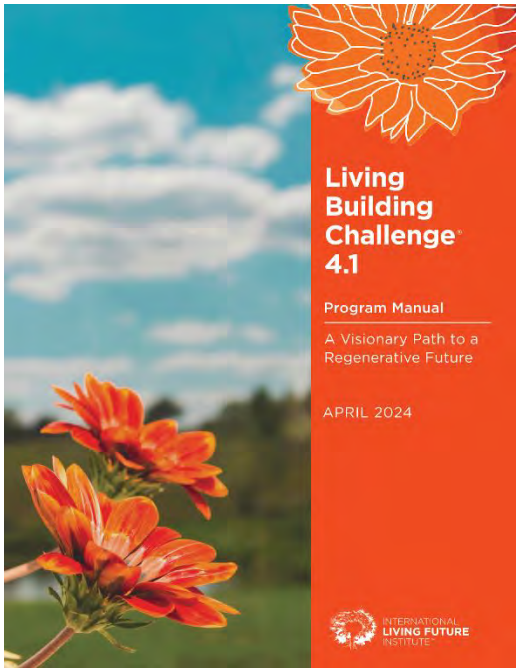


CARBON CONSCIENCE

epic.

CARE

Kaleidoscope: Embodied Carbon Design Tool

C6

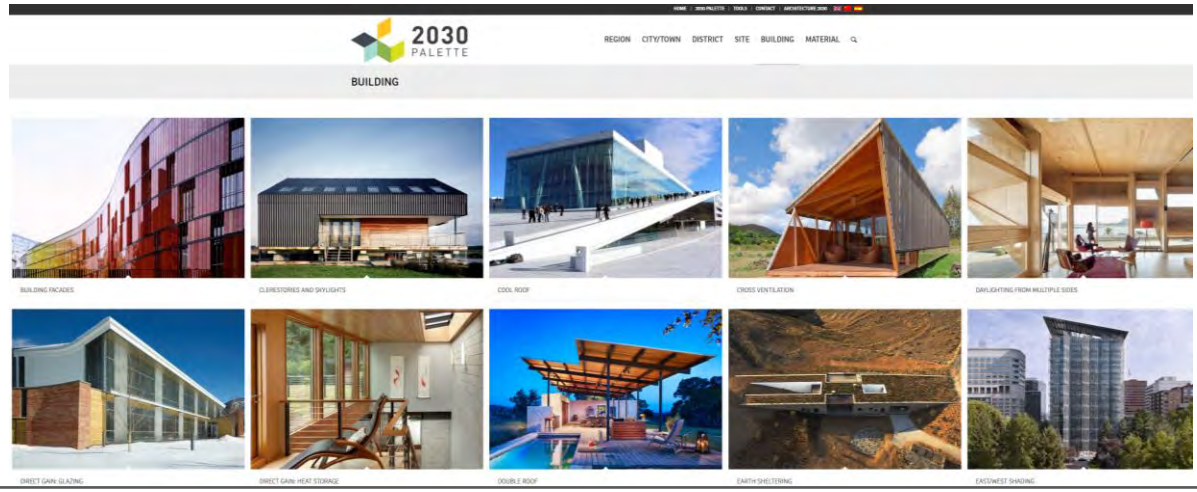
WUFI®

AIA Framework for Design Excellence

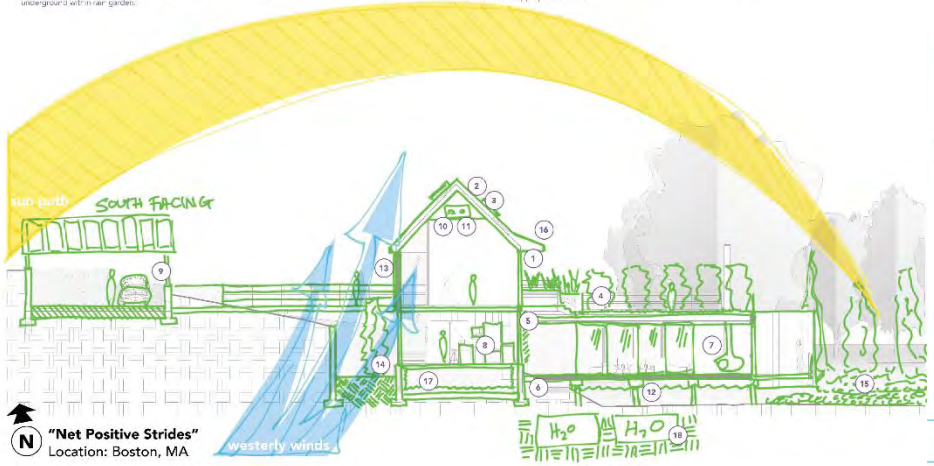
The world today is facing broad and complex challenges that threaten every aspect of our lives. The architect's call to protect the health, safety, and welfare of the public has a new and broader meaning amid challenges such as increasing climate extremes and social inequity. Architects everywhere must recognize that our profession can harness the power of design to contribute to solutions addressing the most significant needs of our time. Every project can be used as a platform for addressing big problems and providing creative solutions. Every line drawn should be a source of good in the world.

The Framework for Design Excellence represents the defining principles of good design in the 21st century. Comprised of 10 principles and accompanied by searching questions, **the Framework seeks to inform progress toward a zero-carbon, equitable, resilient, and healthy built environment.** These are to be thoughtfully considered by designer and client at the initiation of every project and incorporated into the work as appropriate to the project scope. The Framework is intended to be accessible and relevant for every architect, every client, and every project, regardless of size, typology, or aspiration.

The Framework for Design Excellence challenges architects with a vision the profession strives to achieve.



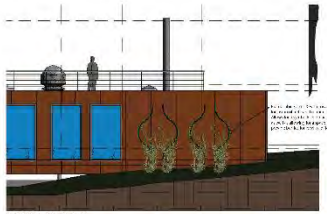
1 Replace all windows and skylights with lithium high performance triple pane glass (advanced comfort, low E)
2 Remove existing roofing material, add appropriate level of insulation to achieve R-value of 70, finish with new standing seam metal roof (better heat management)
3 Remove existing ground solar array and reinstall on southern roof face(s)
4 Re-design roof deck to be green. Integrate kitchen garden and rainwater reclamation system for watering the garden. Provide water pump system for nearby water storage. Reuse existing water collection tanks located underground within rear garden.
5 Add retractable roof overhang to south facing walls (especially first floor) for summer sun shading - design rotatable slat system for varied sun paths/desired light throughout year
6 Install river rock around perimeter of foundation for better rainwater drainage
7 Replace/retrofit existing fireplace with electric insert or remove entirely
8 Renovate existing kitchen with induction range and high efficiency appliances/plumbing. Replace existing bathroom fixtures with efficient models.
9 Install charging port for electric cars. Add carport with green roof and/or solar panels and replace existing paving with pervious material
10 Replace current air handling system (if any) with new HRV system - install new attic space if needed for location
11 Provide automatic ventilation system to optimize performance of passive air flow through house (operable windows change based on weather)
12 Insulate bottom of existing floor deck of living room
13 Provide outboard insulation at all exterior walls to achieve appropriate R-value
14 Plant deciduous foliage around first floor exterior to provide better views in summers and shading in winter
15 Replace existing grass lawn cover with clover, microclover and wildflowers. For all other landscaping, utilize native plants. Clover requires less maintenance, local plants are better for overall environment.
16 Add roof overhang to southern facing wall
17 Insulate existing crawl space to provide desired R-value
18 Relocated water tanks underground - install rain garden nearby for added runoff protection from flooding



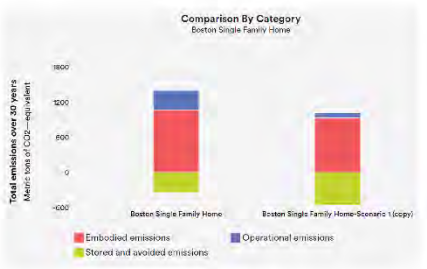
Payette

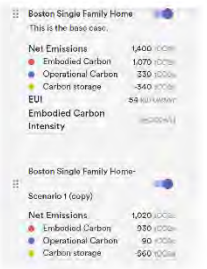
ASSIGNMENT 7:
Biophilia : Natural Analogues Patterns

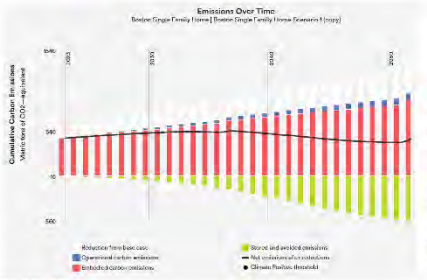
"Natural Analogues addresses organic, non-living and indirect evocations of nature. Objects, materials, colors, shapes, sequences and patterns found in nature, manifest as artwork, ornamentation, furniture, décor, and textiles in the built environment."
- Terrapin Bright Green LLC

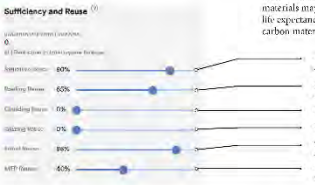


JOSHUA ZIEHWEIN









ASSIGNMENT 8:
Embodied Carbon

This assignment's focus was on calculating, comparing and understanding the embodied carbon of the pre alteration structure from the start of the semester, and the current retrofitted design we have been developing. The following comparison of embodied carbon is calculated under the assumption that the retrofitted design will reuse existing building materials, such as already cast concrete, when logically applicable.

Following the calculations done through the EPIC Carbon Calculator, it was clear that there was a staggering difference in operational carbon between the two designs thanks to the building's low site EUI and addition of Photovoltaics. Over the course of a 30 year period, there was a 73% reduction in our retrofitted designs operational carbon. In addition to this, the retrofitted design provided a 13% reduction in embodied carbon. This change comes across as so minimal due to the reuse of many existing building materials in the retrofitted design. While the materials have a higher embodied carbon, the argument could be made that continuing to use existing materials, such as the buildings concrete and stone, to the end of their life expectancy is the more environmentally conscious choice rather than removing and reconstructing with virgin materials that possess less embodied carbon. Also controversial, there is the consideration that higher embodied carbon materials may sometimes be a wiser choice depending on their life expectancy when compared to certain lower embodied carbon materials.

JOSHUA ZIEHWEIN

DCVL PHILOSOPHY & BUSINESS MODEL

DESIGN

ACADEMICS

VOLUNTEERISM

Images by DDC

DCVL Design, for **BSA SEC**: our MANIFESTO, a Tripartite Vision: VOLUNTEERISM & ADVOCACY…

VOLUNTEERISM &/or ADVOCACY

NON-PROFITS:

- …like BSA
- Outdoor Teach'g Org's

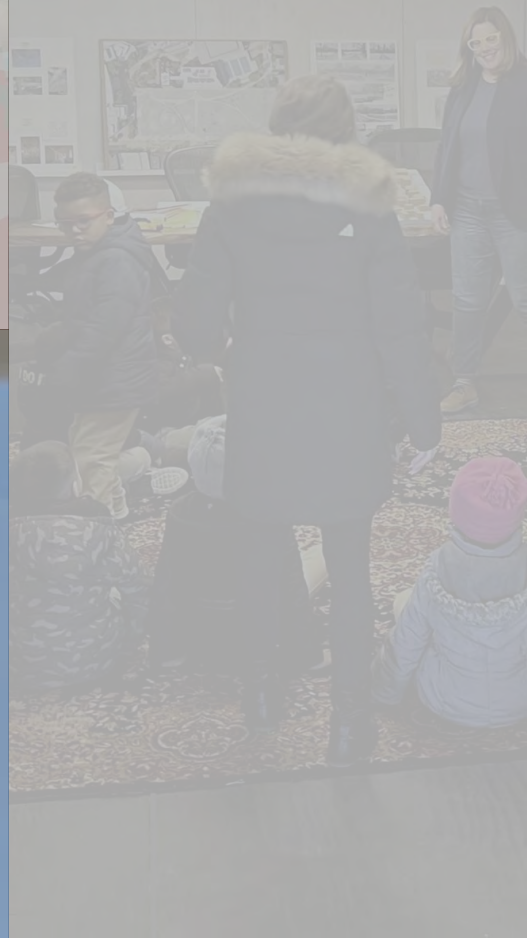
VOLUNTEERISM &/or ADVOCACY

NON-PROFITS:

- …like BSA
- Outdoor Teach'g Org's

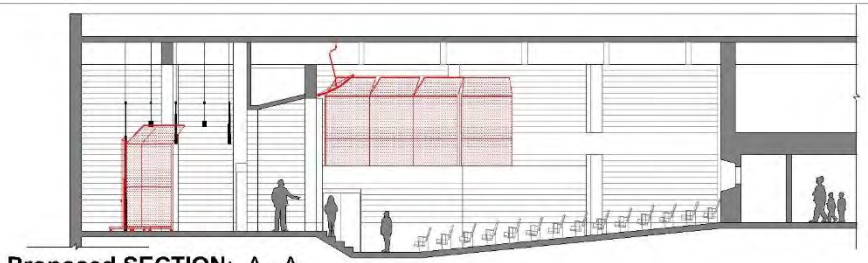
MENTORING:

- ACE &/or Shadowing



DCVL Design, for **BSA SEC:** our MANIFESTO, a Tripartite Vision: VOLUNTEERISM & ADVOCACY…

Perspective Sketch: Showing *Wenger-Basic* Acoustic Shells (upright) + *Diva* (ceiling)



Proposed SECTION: A - A

NON-PROFITS:

- …like BSA
- Outdoor Teach'g Org's

MENTORING:

- ACE &/or Shadowing

VOLUNTEERING:

- Public Schools…

…PTO-to-Dyslexia/Bldg.

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VOLUNTEERING:

- Public Schools…
  …PTO-to-Dyslexia/Bldg.
- Library Group +
- Attend Design Juries

DCVL Design, for **BSA SEC:** our MANIFESTO, a Tripartite Vision: VOLUNTEERISM & ADVOCACY…

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BAC STUDIO COLLABORATES WITH CAMBRIDGE ARTS COUNCIL TO MAKE ARTS MORE VISIBLE AND ACCESSIBLE

ADVANCED MASTER OF ARCHITECTURE STUDENTS DESIGN A PROPOSAL FOR AN URBAN ARTS CENTER IN CAMBRIDGE, MA

Master of Architecture students working in a discussion group with Lillian Hsu, director of public art, Cambridge Arts Council. Photo by Allison Postlethwait

DATE POSTED
03/11/2015

FOR MORE INFORMATION
communications@the-bac.edu

CATEGORIES
Students, Architecture

SOURCE
Boston Architectural College
Story by Allison Postlethwait

Boston Architectural College (BAC) advanced Master of Architecture students are stepping outside of the classroom and into the community to make the arts more visible, more relevant, and more accessible. Under the instruction of David T. De Celis, a principal at DCM Design, students in Architecture Studio 4 are developing proposals for a charter school and community center for visual and performing arts in Central Square in Cambridge, MA during the Spring 2015 semester.

On Monday, March 2, BAC students met with local visual and performing art leaders at the Cambridge Arts Council for a design charrette to brainstorm a wish-list for an ideal urban center for the arts. Members in attendance included:

- Lace Campbell, director and producer for Beyond the 4th Wall
- Sarah Carrier, landscape architect
- Peter DeMuro, director of the Dance Complex
- Jeremy Gaucher, public art administrator, Cambridge Arts Council
- Lillian Hsu, director of public art, Cambridge Arts Council
- Mela Lyman, painter and Cambridge resident
- Rika McMally, director of art conservation, Cambridge Arts Council

Participants broke into discussion groups led by BAC students to examine what spatial elements work well in

NON-PROFITS:

- …like BSA
- Outdoor Teach'g Org's

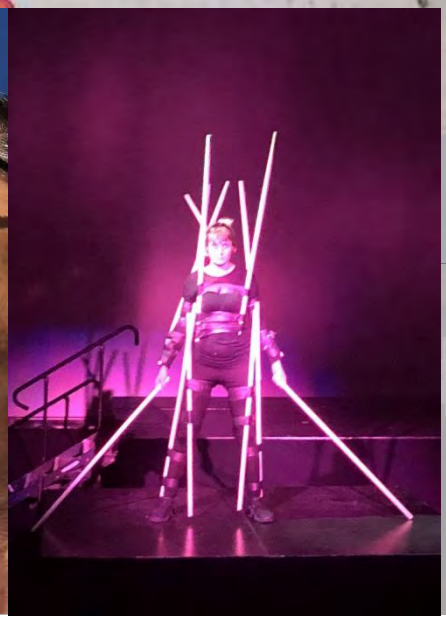
MENTORING:

- ACE &/or Shadowing

VOLUNTEERING:

- Public Schools…
  …PTO-to-Dyslexia/Bldg.
- Library Group +
- Attend Design Juries
- Public Commissions…

DCVL Design, for **BSA SEC:** our MANIFESTO, a Tripartite Vision: VOLUNTEERISM & ADVOCACY…



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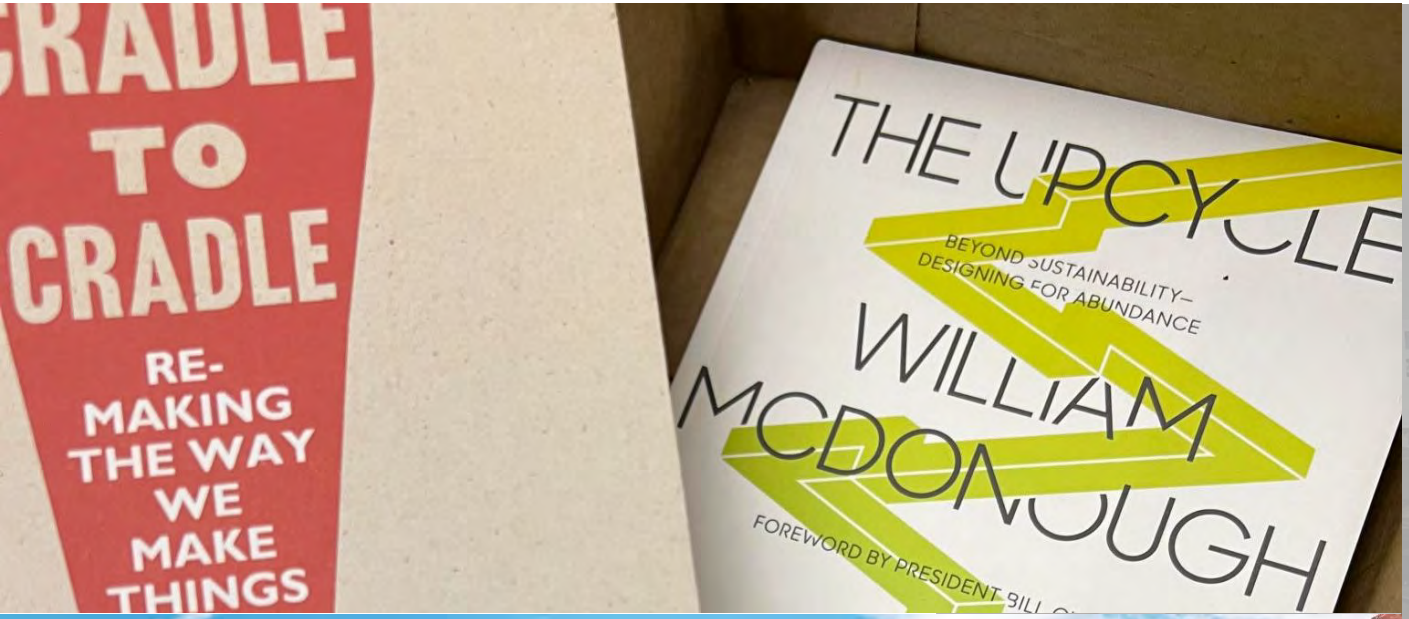
TEACHING/CEU:

- Your Alma Maters or…
  …local design school?
- Attend their Conferences…



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- Attend their Conferences…

SHARE / CELEBRATE!
- On the "night-stand"…
- Work/successes of others

Images: Top by DDC / Bott rendering by *CambridgeSeven* for City of Cambridge, 2024.

DCVL PHILOSOPHY & BUSINESS MODEL

DESIGN

ACADEMICS

VOLUNTEERISM

"creating innovative, flexible spaces for the ways we live, work and learn"

Images by DDC

DCVL

DESIGN

Proud to be MBE Certified

THANK YOU!

BSA SUSTAINABILITY EDUCATION COMMITTEE

Co-chairs: Jeffrey Berg & Esther Huang

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— END —