

Moral Imperative + Market Activation

Barry Price
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NEW ENERGY WORKS



BarryPriceArchitecture



TALK INSPIRED BE A SERIES OF EVOLVING CONVERSATIONS AMIDST A PROFESSIONAL COLLABORATION.



Different projects. Different places. Since 2015, the same result.

EVERY PROJECT

2015

Extremely high performance · Passive Building · Low embodied carbon

So we asked: how did we do that?

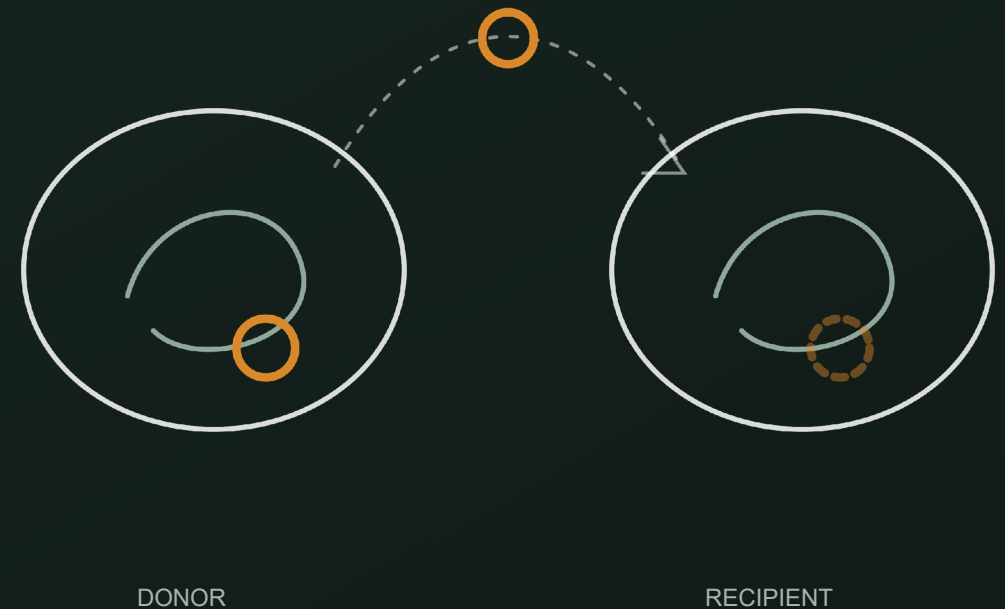
We looked back at how we work with clients, coworkers and collaborators, and tried to put into words what's made the difference.

TODAY



Don't replace the population. **Transfer the traits.**

Evolution doesn't only happen through generational replacement. Useful instructions can move horizontally through an existing population.





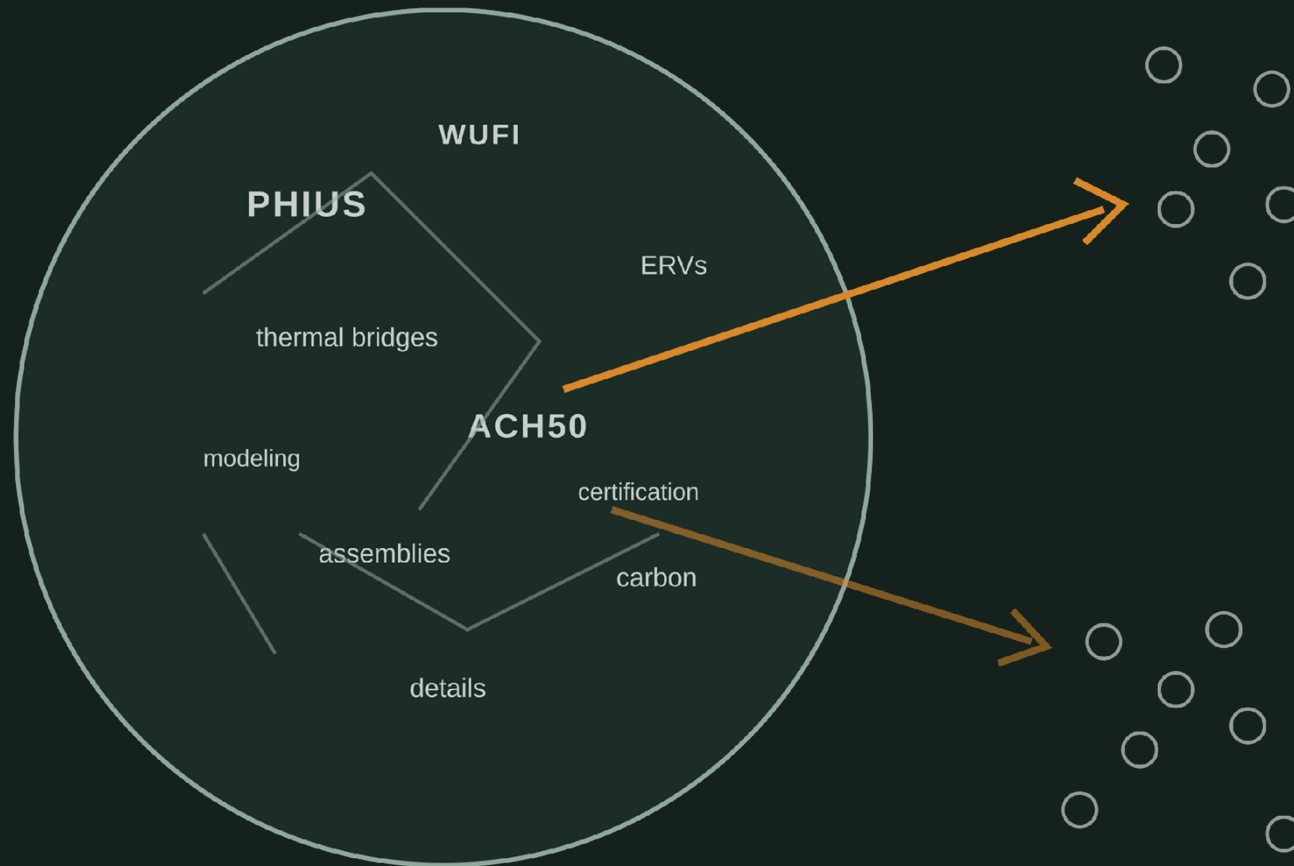


The traits aren't the problem. The transfer rate is.



We are not waiting for the invention of better building. We are waiting for proven practices to spread.





**Knowledge doesn't
spread because it
exists.**

PERFORATE THE BUBBLE

Move knowledge across professional, cultural
and project boundaries.

Where does the knowledge live?



IMPLEMENTERS

Know it. Believe it. Build it.



LATENT / READY

Believe it. Waiting to act.



UNEXPOSED / UNCONVINCED

Not yet connected to the value.

The objective is not conversion. It is **connection + transfer.**

Transfer is a process, not an event.



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A trait has transferred when it is integrated and expressed through behavior.

EXPOSURE IS NOT TRANSFER.

Airtightness has completed the transfer when nobody has to argue for airtightness anymore.

You don't have to transfer the entire genome in one project.



AIRTIGHTNESS

THERMAL CONTINUITY

MOISTURE RESILIENCE

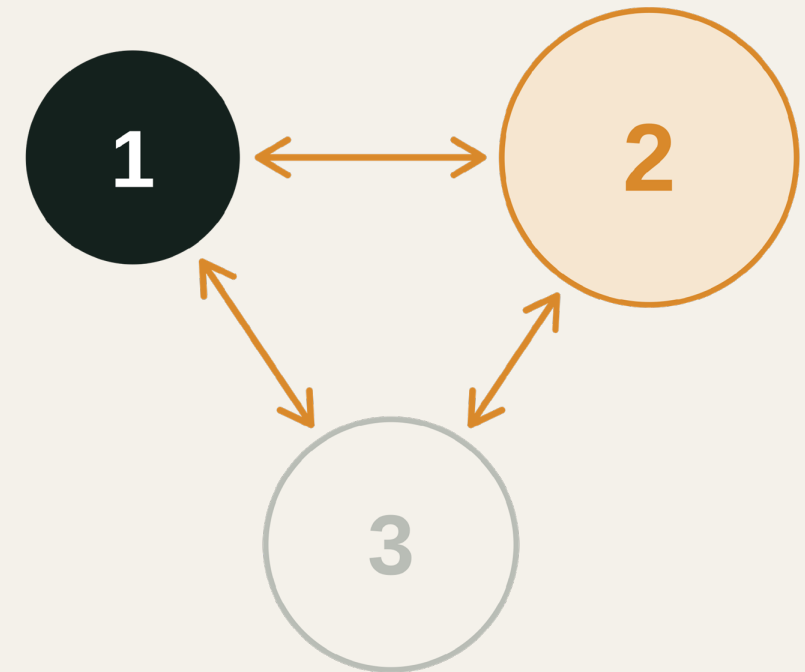
LOW CARBON

VERIFICATION

Transfer the traits. Normalize the behaviors. Change the population.

When the transfer succeeds...

Airtightness	becomes assumed
Thermal continuity	becomes ordinary
Moisture resilience	becomes expected
Embodied carbon	becomes visible
Biogenic materials	becomes familiar
Testing	becomes normal
Performance	becomes baseline practice



1 ↔ 2 ↔ 3, not 1 → 2 → 3

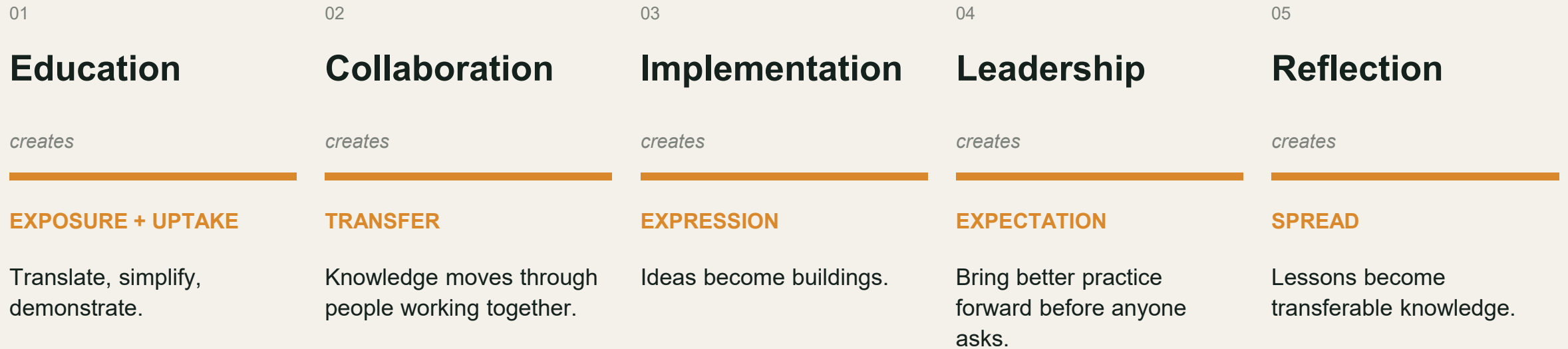


FOR THE REST OF THIS SESSION

How do we increase the **rate of transfer?**

Education · Collaboration · Implementation · Leadership · Reflection

Five modes of acceleration.



Education isn't the transfer itself. It's only one part of it.



1. Education: The process of imparting and acquiring knowledge, skills, values, and character through teaching, training, or study.



2. Collaboration: The act of two or more people or organizations working together to create, complete, or achieve a shared goal.



3. Implementation: The act of putting a plan, policy, idea, or design into action to make it active or effective.



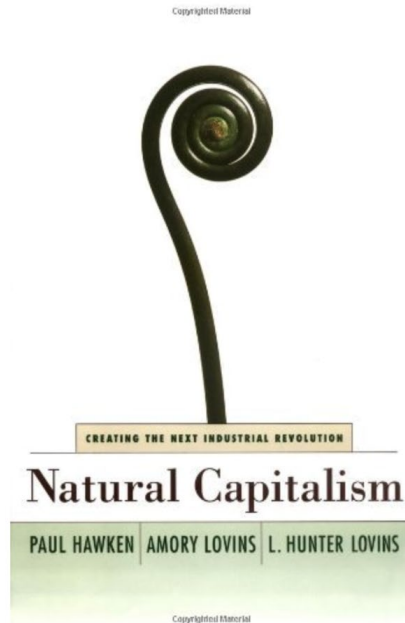
4. Leadership: The social process of influencing, inspiring, and guiding people working together to achieve a common goal.



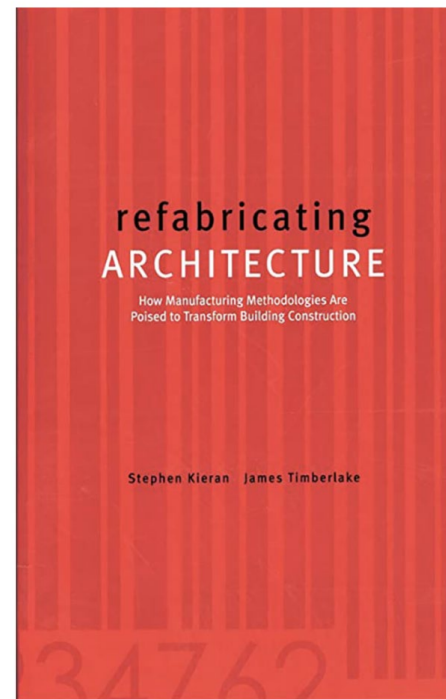
5. Reflection: A careful, deep thought about something.

1. **Education:** The process of imparting and acquiring knowledge, skills, values, and character through teaching, training, or study.

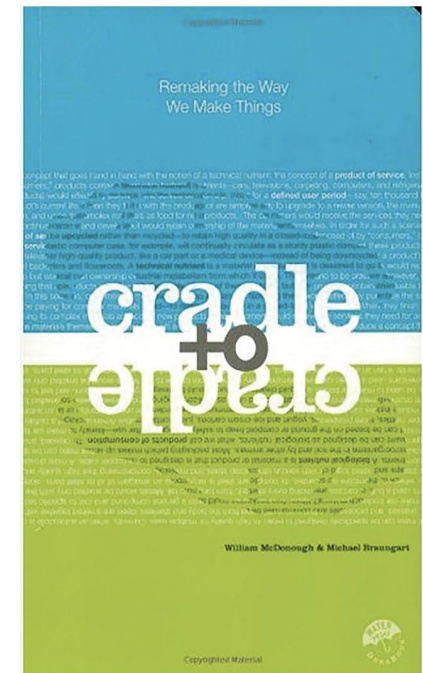




ECONOMICS OF SUSTAINABILITY



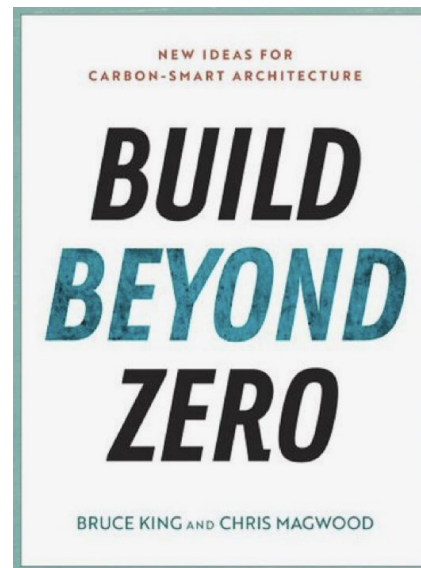
MASS CUSTOMIZATION



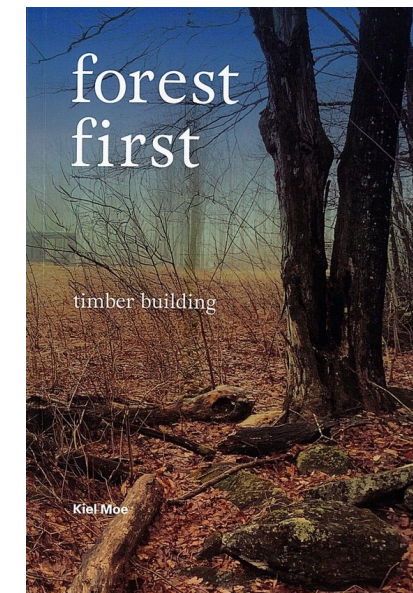
UPCYCLE NO RECYCLE



STORE RATHER THAN EMIT CARBON

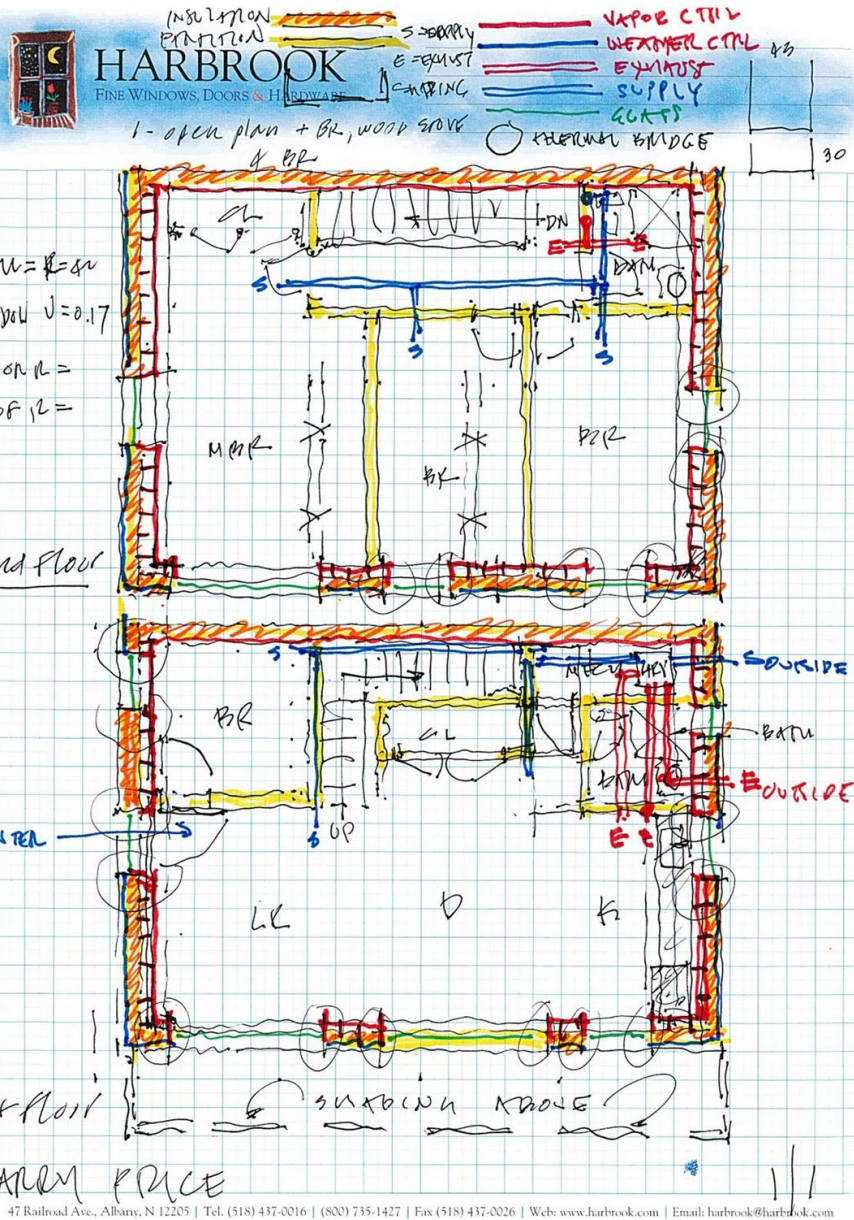
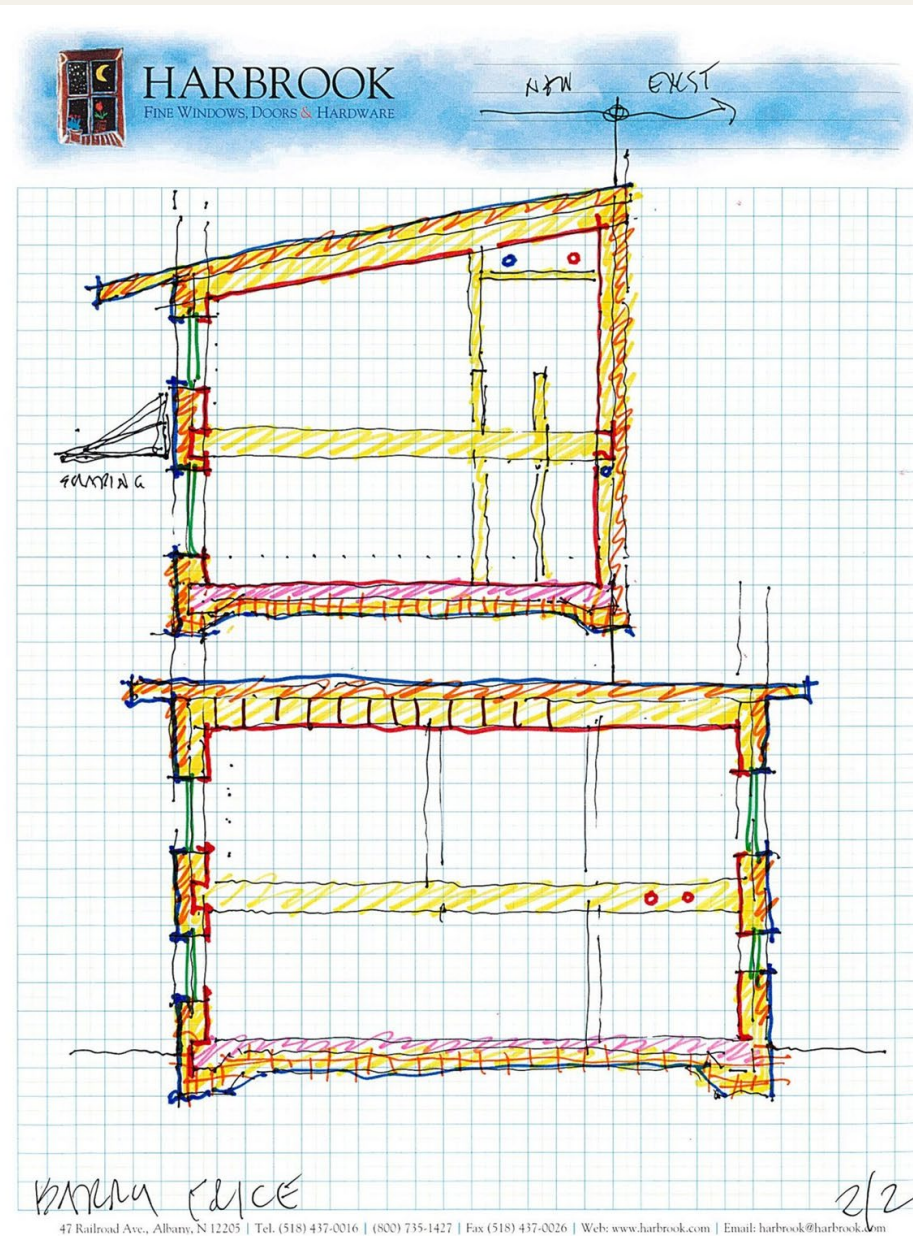


BUILDING FOR MASSIVE CARBON STORAGE

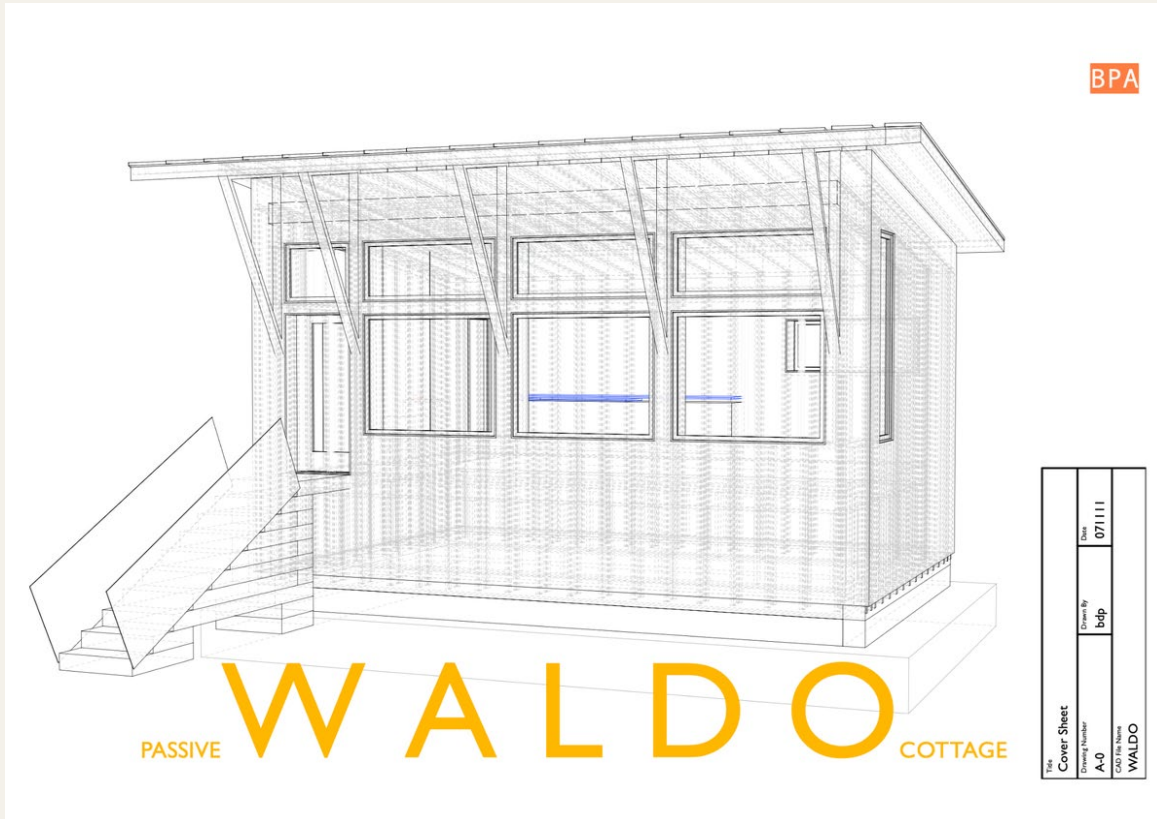
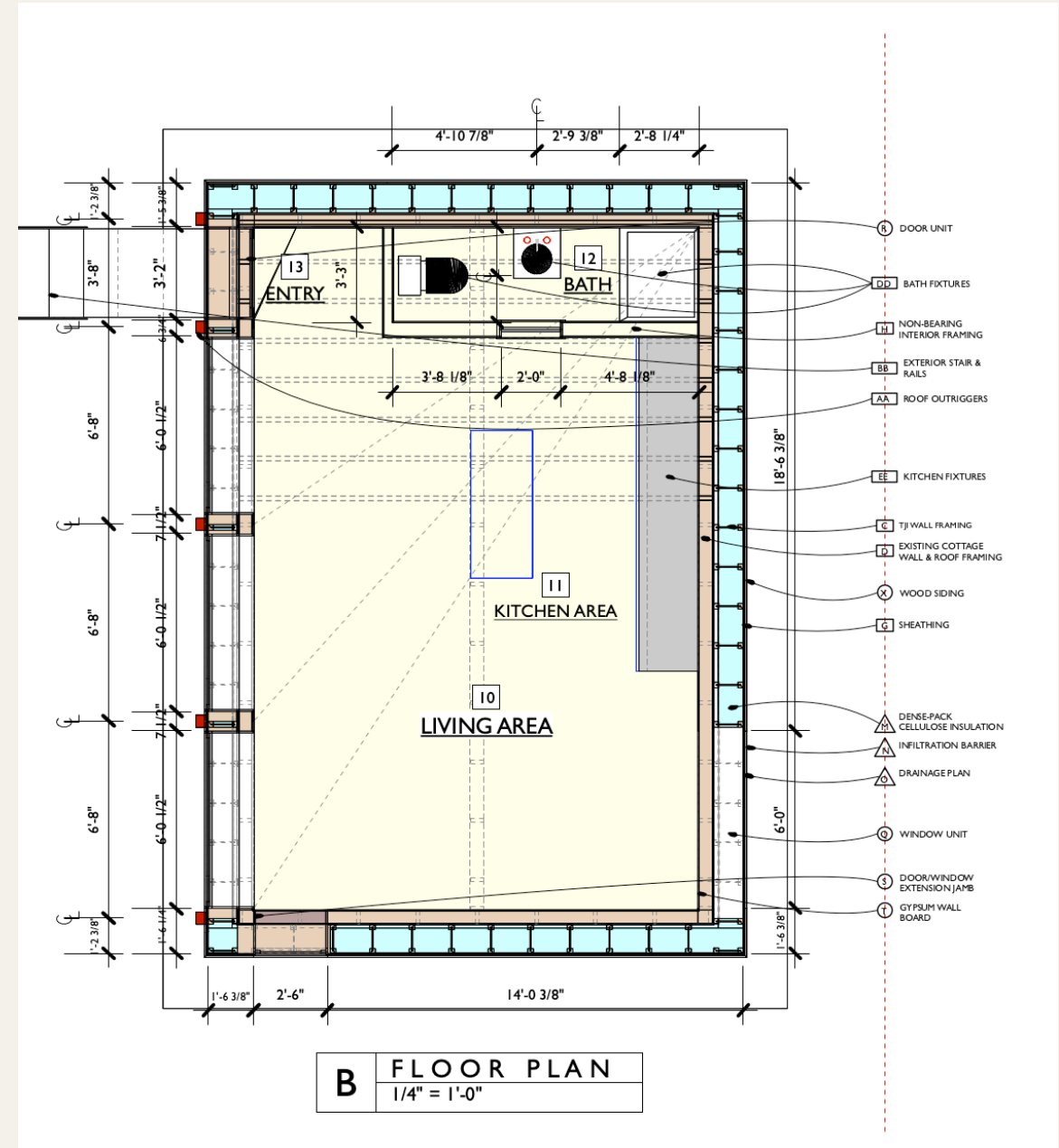


NON-EXTRACTIVE TIMBER BUILDING





2. Collaboration: The act of two or more people or organizations working together to create, complete, or achieve a shared goal.

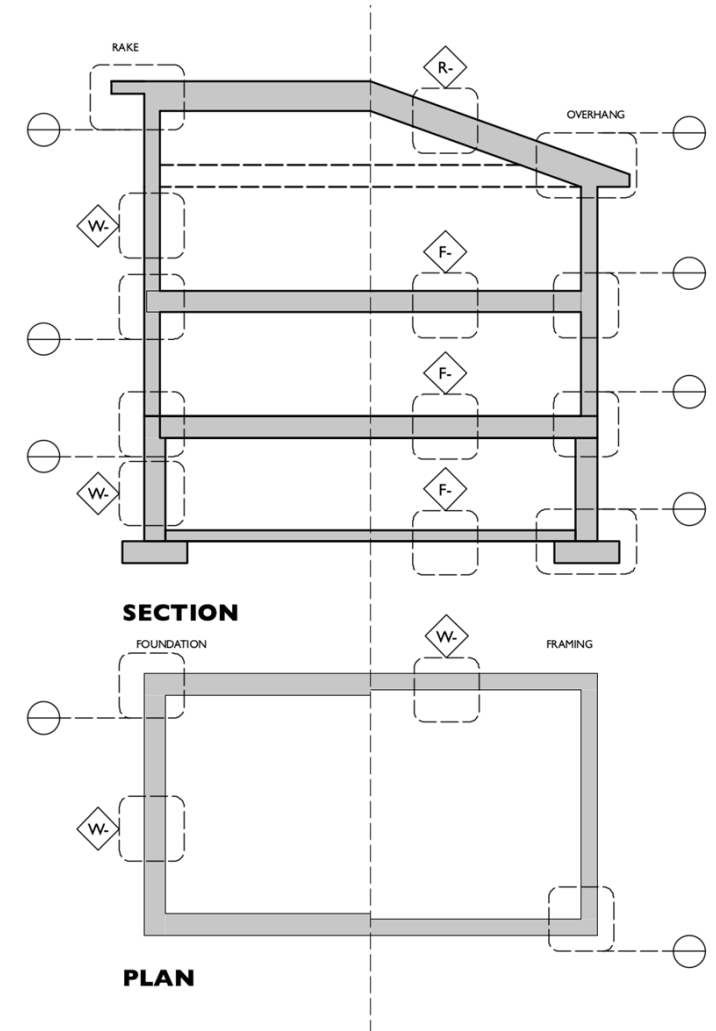




STEP OUT OF YOUR COMFORT ZONE, DISRUPT YOUR APPROACH.



3. Implementation: The act of putting a plan, policy, idea, or design into action to make it active or effective.



UTILITIZING THESE DOCUMENTS:

THESE DRAWINGS DIFFERENTIATE CONTINUOUS ENCLOSURE SYSTEMS INCLUDING ROOF, WALL AND FLOOR SYSTEMS FROM TERMINATIONS AND INTERSECTIONS OF THESE SYSTEMS.

WHEN SEEKING INFORMATION REGARDING CONTINUOUS INTERIOR AND EXTERIOR ENCLOSURES, SEE CONSTRUCTION ENCLOSURE TYPES (SHEET A-0.1).

WHEN SEEKING INFORMATION REGARDING TERMINATION DETAILS, REFER TO PLAN (A-2.2.1, A-2.4.1) AND SECTION DETAIL SHEETS (A-3.2, A-3.3, A-3.4, A-3.5 AND A-3.6).

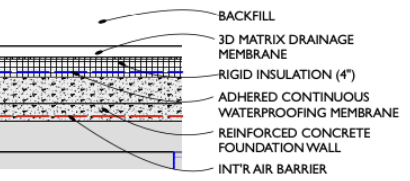
IDENTIFYING SURFACES, TRANSITIONS & INTERSECTIONS



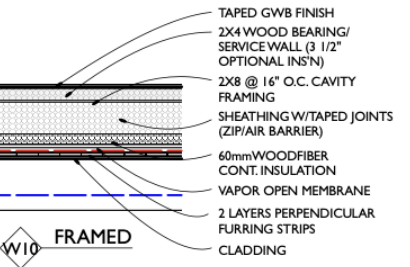
CONSTRUCTION ASSEMBLY KEY:

- 1. SEE FLOOR/ROOF PLANS AND CROSS SECTION DRAWINGS FOR REFERENCE.
- 2. SEE PLAN AND SECTION DETAILS FOR COORDINATION WITH CORNERS, OPENINGS FLASHINGS AND TERMINATIONS.

EXTERIOR WALL TYPES

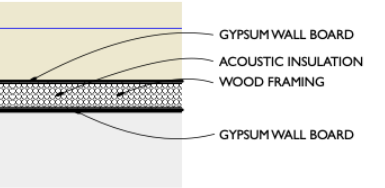


W1 FOUNDATION

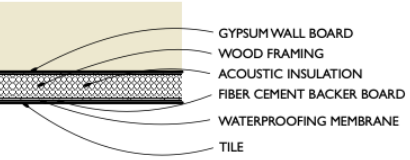


W10 FRAMED

INTERIOR WALL TYPES

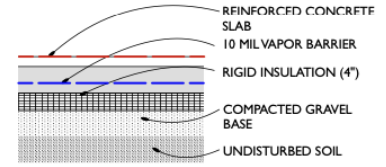


W20 PARTITION

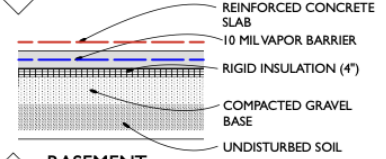


W21 TILED PARTITION

FLOOR TYPES

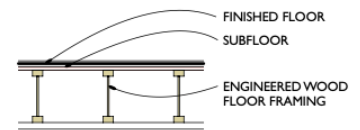


F1 GARAGE

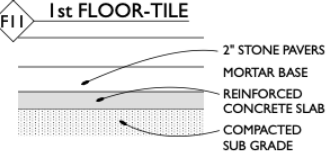


F2 BASEMENT

F2A CRAWL

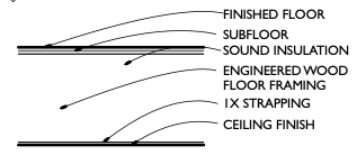


F10 1st FLOOR-WOOD



F11 1st FLOOR-TILE

F12 1st FLOOR-PORCH

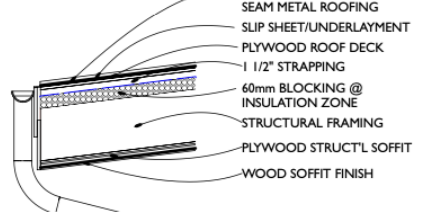


F20 2nd FLOOR-WOOD

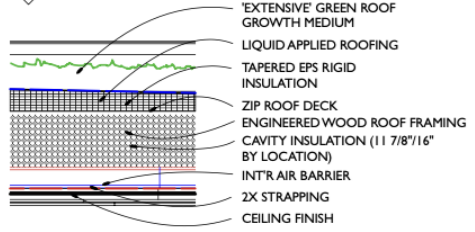
F21 2nd FLOOR-TILE

F23 2nd FLOOR-ATTIC

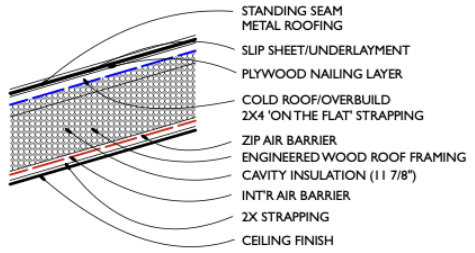
ROOF TYPES



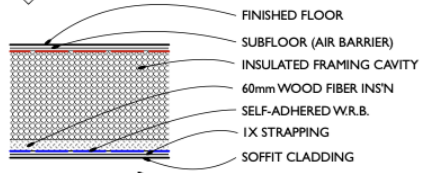
R1 UNCONDITIONED



R2 LOWER CONDITIONED



R3 UPPER CONDITIONED



R4 CANTILEVER

GUIDING PRINCIPLE FOR THIS PROJECT:

PLANNING & CONSTRUCTION ARE DRIVEN BY PASSIVE HOUSE CERTIFICATION CRITERIA INCLUDING:
HEATING ENERGY DEMAND: $\leq 4.75 \text{ kBtu}/(\text{sf} \cdot \text{yr})$ or BUILDING HEATING LOAD: $\leq 3.17 \text{ Btu}/\text{hr} \cdot \text{sf}$
COOLING DEMAND: $\leq 4.75 \text{ kBtu}/(\text{sf} \cdot \text{yr})$ + dehumidication contribution.
PRIMARY ENERGY DEMAND: $\leq 38 \text{ kBtu}/(\text{sf} \cdot \text{yr})$ or RENEWABLE PRIMARY ENERGY (PER) DEMAND: $\leq 19 \text{ kBtu}/(\text{sf} \cdot \text{yr})$
BUILDING AIRTIGHTNESS: $\leq 0.6 \text{ A.C.H. } 50$
EXCESS TEMPERATURE FREQUENCY: $(77^\circ\text{F}): \leq 10\%$
VENTILATION W/ $\geq 75\%$ HEAT RECOVERY.
ELECTRICITY DEMAND MAX: **0.765 W/CFM**

DETAIL NOTE KEY

STRUCTURAL	THERMAL/MOISTURE	EXT'R/INTR'R FINISH	FLASHING PROFILES	SPECIALTY
A STRUCTURAL INSULATED PANEL OVERBUILD (SIP)	I CAVITY INSULATION	S EXTERIOR TRIM	01 OUTSIDE CORNER VERTICAL	AA INSECT SCREEN
B WOOD/ENGINEERED FRAME COMPONENT	J LOW EXPANSION FOAM SEALANT	T DOOR/WINDOW UNIT	02 INSIDE CORNER VERTICAL	BB CONCEALED FASTENER
C STEEL FRAME COMPONENT	K RIGID BOARD INSULATION	U SKYLIGHT UNIT	03 UNASSIGNED	CC GUTTER / LEADER
D WOOD BLOCKING	L PEEL AND STICK FORMABLE FLASHING	V EXTENSION JAMB (INTERIOR)	04 SIDING @ VENEER CAP	DD SUB-SURFACE LEADER
E COMBINATION SHEATHING/ INFILTRATION BARRIER (ZIP)	M SILL SEAL	W SIDING CLOSURE PLATE	05 WINDOW/DOOR HEAD/ SIDING TRANSITION STRIP	EE SHIM
F TREATED PLATE	N CAULK JOINT	X SHEETROCK RETURN	06 WINDOW SILL/ NO VENEER	FF BEAM/SOFFIT OFFSET
G REINFORCED CONCRETE COMPONENT	O CHAMFER STRIP FOR TRANSITION	Y INTERIOR TRIM	07 SIDEWALL TO SLOPED ROOF	GG VENEER CURB
H METAL FRAMING CONNECTOR	P COMPRESSIBLE DRAINAGE MATRIX	Z UNASSIGNED	08 SIDEWALL TO RAKED ROOF	HH METAL ROOF EDGE/VALLEY PROFILE
	Q CAPILLARY BREAK		09 WINDOW SILL/VENEER CAP	II MASONRY WEEP
	R FOOTING DRAIN ASSEMBLY		10 DOOR PAN/VENEER CAP	JJ HARDWOOD NAILER
			11 SIDING TERMINATION/ NO VENEER	

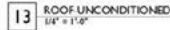
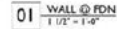




STRUCTURAL	THERMAL/HYDRO	EXTR/INT'L FINISH	FLASHING PROFILE	SPECIATY
A NON-PLUMBING BASE COMPONENT	A INSULATION	A EXTERIOR FINISH	A NON-PLUMBING BASE COMPONENT	A NON-PLUMBING BASE COMPONENT
B INS. THIN TOP COVER	B INSULATION	B EXTERIOR FINISH	B INS. THIN TOP COVER	B INS. THIN TOP COVER
C INS. THIN TOP COVER	C INSULATION	C EXTERIOR FINISH	C INS. THIN TOP COVER	C INS. THIN TOP COVER
D INS. THIN TOP COVER	D INSULATION	D EXTERIOR FINISH	D INS. THIN TOP COVER	D INS. THIN TOP COVER
E INS. THIN TOP COVER	E INSULATION	E EXTERIOR FINISH	E INS. THIN TOP COVER	E INS. THIN TOP COVER
F INS. THIN TOP COVER	F INSULATION	F EXTERIOR FINISH	F INS. THIN TOP COVER	F INS. THIN TOP COVER
G INS. THIN TOP COVER	G INSULATION	G EXTERIOR FINISH	G INS. THIN TOP COVER	G INS. THIN TOP COVER
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Z INS. THIN TOP COVER	Z INSULATION	Z EXTERIOR FINISH	Z INS. THIN TOP COVER	Z INS. THIN TOP COVER

DR. SAUNDERS WILL BE A GUEST, RESEARCHER MUST RUN LIST THROUGH
WITH JOHN CRICK, AROUND SUPERIOR, SOME AND LAY TO EXTENSION AND
RESEARCH, AND CURRENTLY WORKING ON IT (ALL RESEARCHING)

IRON LINED STEEL OR STAINLESS STEEL. BUT CONTINUOUS
IRON LININGS OF PLATING TO HAVE AN IRONED EFFECTIVE
SINCE TO COVER IRONING UNIT IS ALL FOR THAT ONE
STUDING IRONED COMPETING TARE IF ALL LAY
AND CORROSION CHARACTERISTICS, DURABILITY AND STRUCTURE OF AN



1. ALL COMPONENTS OF DRAINAGE PLANE MUST BE WEATHERLAPPED TO HELP INSURE WATER DRAINS AWAY FROM STRUCTURE.

- 1. ALL COMPONENTS OF DRAINAGE PLANE MUST BE WEATHERED TO HELP INSURE WATER DRAINS AWAY FROM STRUCTURE.
- 2. ALLY CONTINGUOUS FLASHING DRIP EDGES WHERE DRAINAGE IS AN FLANK BACK TOWARD STRUCTURE.
- 3. PROVIDE REDUNDANT DRAINAGE ELEMENTS PRIMARY ROOFING OR SIDING WITH WATERPROOF DRAINAGE PLANE BEHIND.
- 4. INSTALL FOUNDATION WATER PROTECTION & DRAINAGE TO HELP ENSURE GROUND RELATED MOISTURE PROBLEMS ARE AVOIDED.

- 1. VAPOR PROTECT OF ASSEMBLY SHOULD PROMOTE DATING OUTWARD AND PREVENT WEAVING IN SURFACE WHEN ALL TOWING DURING INWARD IN SURFACE
- 2. BUILDING COMPONENTS OUTBOARD OF PRIMARY INSULATION SHOULD BE PROTECTED FROM WEAVING OUTWARD DURING WEAVING OF PROPOSITE OUTWARD DURING WEAVING
- 3. BUILDING COMPONENTS SHOULD BE BACK WENTED TO PROMOTE OUTWARD DRYING OF ASSEMBLY
- 4. CLOTHED AIR/TIGHT/THIGHT/THIGHT COMPONENTS SHOULD BE VAPOR PROTECT FROM THE OUTWARD DURING OF ASSEMBLY
- 5. HEATING OUTBOARD OF PRIMARY INSULATION SHOULD BE USED OVER EXTENSIVE GROUND CRYM SOLID OR FINE BROADS
- 6. COMPONENTS INSURANCE OF PRIMARY INSULATION SHOULD BE USED OVER EXTENSIVE GROUND CRYM SOLID OR FINE BROADS
- 7. TRAPPING OF MOISTURE IN ASSEMBLY
- 8. WEAVING DIRECTION OF PRIMARY INSULATION FINE BROADS
- 9. AIR TIGHTNESS AND STRUCTURAL CAPABILITY
- 10. COMPONENTS INBOARD OF PRIMARY INSULATION SHOULD BE VAPOR PROTECT FROM THE INWARD DURING OF ASSEMBLY
- 11. THE GREATEST TO PRODUCE DAMAGE IS THE GREATEST TO PRODUCE A RETARDING IS INCORPORATED

IS A SCHEDULE OF VAPOR VARIABLE AIRTIGHT MATERIALS

LEAST VARIABLE	OSB: 0.5-2 PERMS
	PLYWOOD: 0.5-3.5 PERMS
	DBP: 1.2-8.5 PERMS
MOST VARIABLE	INTELL: 0.17-13.2 PERMS

11. MOISTURE DAMAGE RISK INCREASES WITH HIGHER LEVELS OF INSULATION AND/OR CEILING JOIST VAPOR RETARDING COMPONENTS. IF UNSURE OF RISK LEVEL, USE WUFI PRO SOFTWARE TO ANALYZE THE RISK. (75 CAN DO A WUFI PRO ANALYSIS FOR YOU)

FOR BIDDING
ONLY
NOT FOR
CONSTRUCTION

SECTIONS & DETAILS

ALL DRAWINGS CONFORM TO THE
BARRY PRICE ARCHITECTURE

either agreed (53%)

DATE	TIME
10/10/10	10:10 AM
10/10/10	10:10 AM

姓名	性别	年龄	职业	住址	联系电话
张三	男	35	教师	北京市朝阳区	13800000000
李四	女	28	医生	北京市海淀区	13900000000
王五	男	42	工程师	上海市浦东新区	13600000000
赵六	女	31	公务员	广州市天河区	13500000000
孙七	男	25	学生	北京市西城区	13400000000
周八	女	38	经理	深圳市南山区	13300000000
吴九	男	45	农民	河南省郑州市	13200000000
郑十	女	22	护士	浙江省杭州市	13100000000
陈十一	男	33	程序员	广东省深圳市	13000000000
冯十二	女	27	销售	江苏省南京市	12900000000
朱十三	男	36	律师	北京市东城区	12800000000
徐十四	女	29	会计	山东省青岛市	12700000000
马十五	男	41	作家	四川省成都市	12600000000
朱十六	女	24	设计师	福建省厦门市	12500000000
李十七	男	37	科学家	广东省广州市	12400000000
王十八	女	26	记者	上海市虹口区	12300000000
张十九	男	43	企业家	浙江省宁波市	12200000000
赵二十	女	32	教师	北京市昌平区	12100000000
孙二十一	男	23	学生	江苏省苏州市	12000000000
周二十二	女	39	经理	广东省佛山市	11900000000
吴二十三	男	46	农民	河南省新乡市	11800000000
郑二十四	女	21	护士	浙江省温州市	11700000000
陈二十五	男	34	程序员	广东省东莞市	11600000000
冯二十六	女	28	销售	江苏省无锡市	11500000000
朱二十七	男	35	律师	北京市丰台区	11400000000
徐二十八	女	30	会计	山东省济南市	11300000000
马二十九	男	40	作家	四川省绵阳市	11200000000
朱三十	女	25	设计师	福建省福州市	11100000000
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赵三十四	女	33	教师	北京市石景山区	10700000000
孙三十五	男	24	学生	江苏省南通市	10600000000
周三十六	女	40	经理	广东省惠州市	10500000000
吴三十七	男	47	农民	河南省开封市	10400000000
郑三十八	女	22	护士	浙江省嘉兴市	10300000000
陈三十九	男	35	程序员	广东省中山市	10200000000
冯四十	女	29	销售	江苏省常州市	10100000000
朱四十一	男	36	律师	北京市大兴区	10000000000
徐四十二	女	31	会计	山东省淄博市	09900000000
马四十三	男	41	作家	四川省南充市	09800000000
朱四十四	女	26	设计师	福建省漳州市	09700000000
李四十五	男	39	科学家	广东省汕头市	09600000000
王四十六	女	28	记者	上海市徐汇区	09500000000
张三十七	男	45	企业家	浙江省金华市	09400000000
赵四十八	女	34	教师	北京市顺义区	09300000000
孙四十九	男	25	学生	江苏省连云港市	09200000000
周五十	女	41	经理	广东省揭阳市	09100000000
吴五十一	男	48	农民	河南省洛阳市	09000000000
郑五十二	女	23	护士	浙江省衢州市	08900000000
陈五十三	男	36	程序员	广东省肇庆市	08800000000
冯五十四	女	30	销售	江苏省徐州市	08700000000
朱五十五	男	37	律师	北京市通州区	08600000000
徐五十六	女	32	会计	山东省泰安市	08500000000
马五十七	男	42	作家	四川省达州市	08400000000
朱五十八	女	27	设计师	福建省龙岩市	08300000000
李五十九	男	40	科学家	广东省汕尾市	08200000000
王六十	女	29	记者	上海市崇明区	08100000000
张三十一	男	46	企业家	浙江省台州市	08000000000
赵六十二	女	35	教师	北京市怀柔区	07900000000
孙六十三	男	26	学生	江苏省宿迁市	07800000000
周六十四	女	42	经理	广东省河源市	07700000000
吴六十五	男	49	农民	河南省安阳市	07600000000
郑六十六	女	24	护士	浙江省丽水市	07500000000
陈六十七	男</				

300314-10-1

ROTHNIG-HUBER RESIDENCE

105108

LOT 1CB
VALLEY VIEW ROAD

LAKE HILL, N.Y.

A-30

7A-5.9

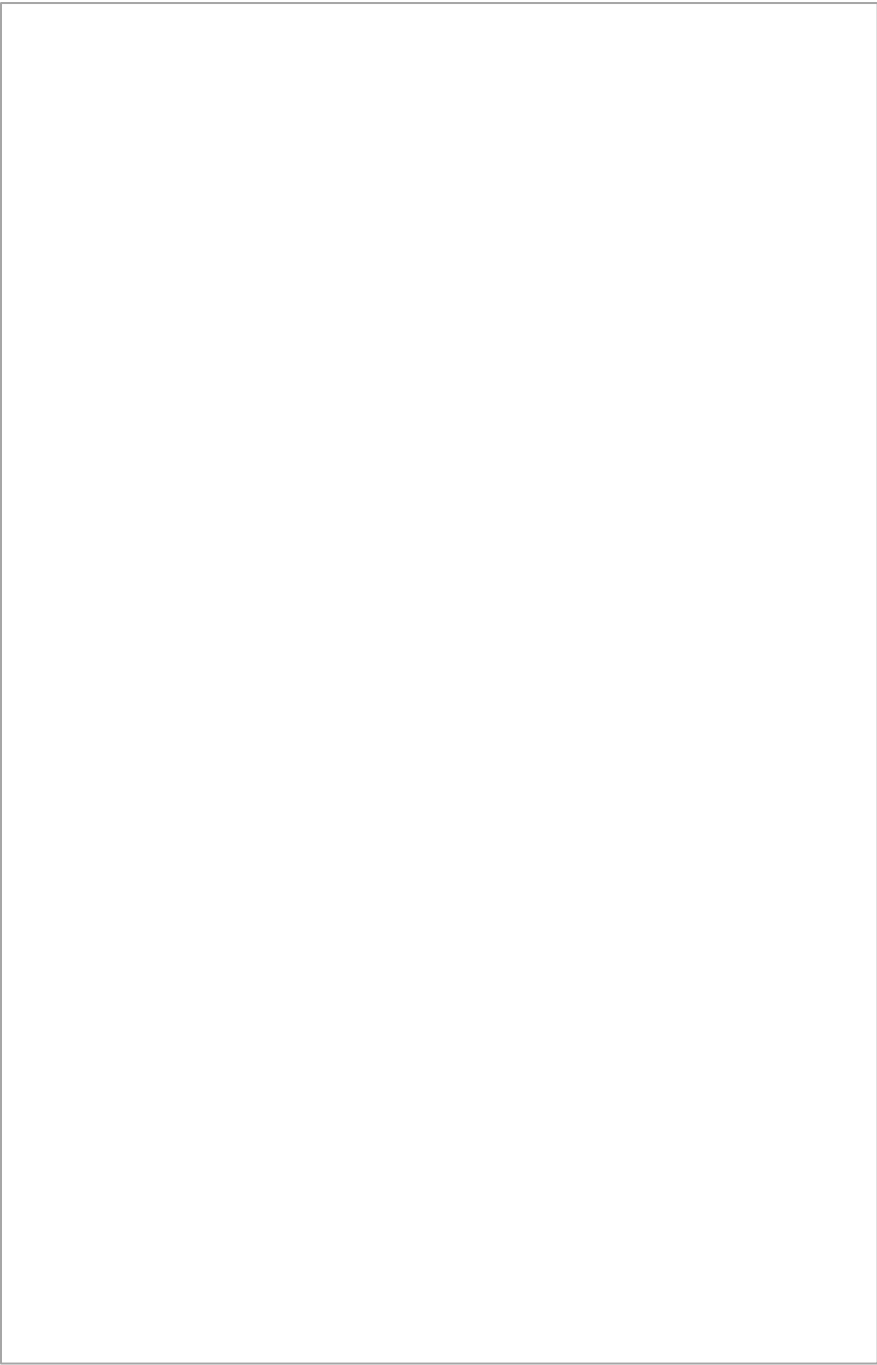
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CORD SET

01.03.17







DEMONSTRATE THE PROJECT SPECIFIC APPLICATIONS OF THE PRINCIPLES.



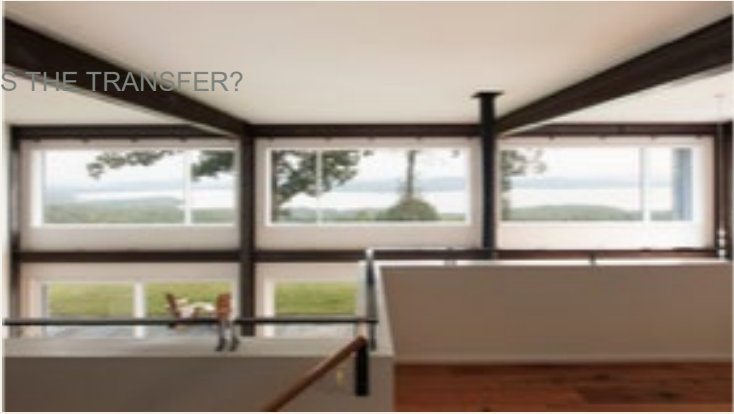


EMBRACE APPROACHES THAT EDUCATE AND MOTIVATE THE TEAM.





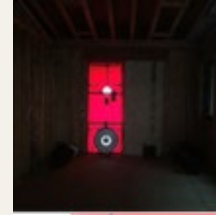
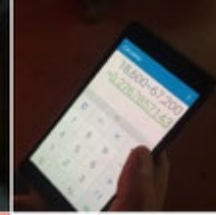
WHAT ACCELERATES THE TRANSFER?



BALANCE CLIENT ASPIRATIONS WITH PRINCIPLES.



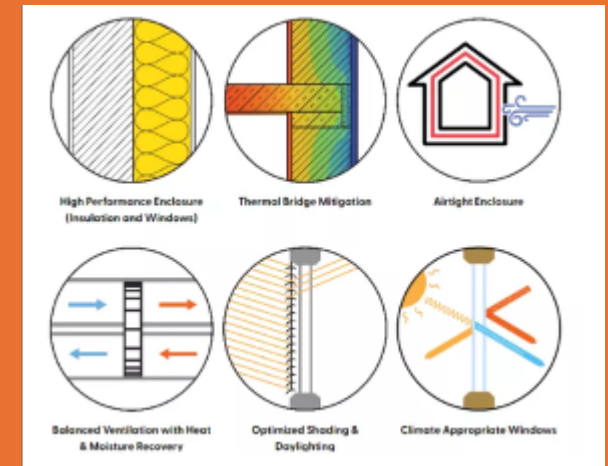
4. Leadership: The social process of influencing, inspiring, and guiding people working together to achieve a common goal.



CLIMATE CRISIS //

Buildings and their construction account for more than one third of the annual global energy use and energy-related carbon dioxide emissions.

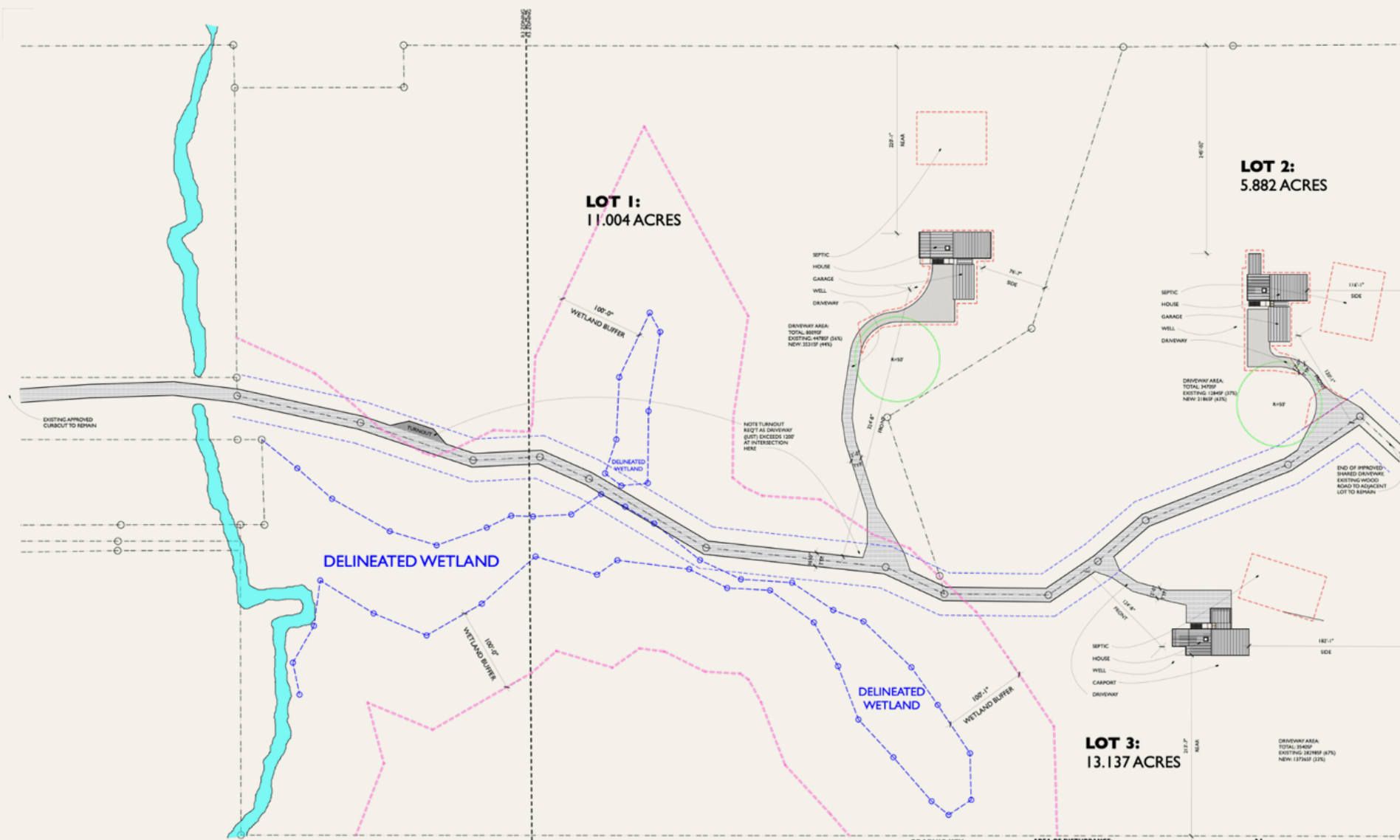
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CHALLENGE YOURSELF & YOUR TEAM WITH AMBITIOUS PROJECTS.





I/WE HEREBY GRANT MY/OUR APPROVAL TO THIS PLOT AND CONSENT TO THE FILING OF IT IN THE OFFICE OF THE ULSTER COUNTY CLERK.

SIGN _____ DATE _____

SIGN _____ DATE _____



SITE PLAN/SCOPE NOTES:

1. SITE DEVELOPMENT: THE INTENT IS TO SUBDIVIDE THE EXISTING 30 ACRE LOT INTO 3 LOTS EACH ACCOMMODATING A SINGLE FAMILY RESIDENCE.
2. DRAINAGE: NO CHANGES TO THE CONTOURS OF THE SITE ARE PROPOSED, WITH THE ONLY ADDITIONAL DRAINAGE TO BE FROM ADDITIONAL ROOF AREA. THIS SHALL BE DIRECTED UNDERGROUND TO DAYLITE ADJACENT TO THE TREELINE AT THE CENTER OF THE PROPERTY. NO SIGNIFICANT CONCENTRATED DRAINAGE WILL BE ADDED.
3. LANDSCAPE TREELINE TO REMAIN IS NOTED WHILE INDIVIDUAL TREES TO BE REMOVED HAVE NOT BEEN NOTED. THE INTENT IS TO MINIMIZE THE REMOVAL OF TREES OTHER THAN THOSE REQUIRED FOR CONSTRUCTION OF THE HOUSE, DRIVEWAY AND SEPTIC.
4. EXISTING ADJACENT ONLY 'WOODY' ROADS EXIST ON SITE AND ALL DRIVEWAYS ARE CONFIGURED TO UTILIZE THESE PREVIOUSLY 'DISTURBED' AREAS.

GRAPHIC KEY:

- NEW DRIVEWAY
- IMPROVED EXISTING WOOD ROAD
- EXTENT OF DISTURBANCE
- DELINEATED WETLAND
- 100' WETLAND BUFFER

AREA OF DISTURBANCE:

FOR ALL 3 SITES INCLUDING HOUSE SITE, ACTIVE SEPTIC AND EXTENT OF NEW DRIVEWAY THE TOTAL IS 42,513 S.F. (THIS INCLUDES A BUFFER FOR CONSTRUCTION ACCESS AROUND ALL DISTURBANCES)

NOTES:

1. PLANNING BOARD APPROVAL OF THIS MAP DOES NOT WAIVE ANY ZONING VIOLATIONS WHICH MAY EXIST WITH RESPECT TO THIS/ THESE LOT(S).
2. THIS SUBDIVISION IS FOR THE PURPOSES OF LEGALIZING THE 30 ACRE PARCEL SHOWN HEREON AND DOES NOT INTEND NOR DOES IT LEGALIZE ANY OTHER PARCELS OF LAND.

APPROVAL NOTES:

1. SURVEY SEE SHEET A-1.1 FOR ISOLATED PROPERTY SURVEY DRAWING.
2. WETLAND DELINEATION, BY MICHAEL NOWICKI, ECOSOL, ON MARCH 23, 2023.
3. A ROAD MAINTENANCE AGREEMENT IS BEING FILED SIMULTANEOUSLY WITH THIS SUBDIVISION MAP.

ZONING TABLE: SBL 32.0023-18.1

ZONE	MIN. LOT AREA	MAX. STRUCTURE COVERAGE	MIN. OPEN SPACE	MIN. YARD REQTS	FLOOR AREA RATIO
RS	1.5 ACRE	10%	50%	25 FT	0.25
ACTUAL LOT 1	11.004	9.30%	EXCEEDS	24 FT 7 IN	0.24
ACTUAL LOT 2	5.882	1.40%	EXCEEDS	124 FT 3 IN	0.013
ACTUAL LOT 3	13.137	0.80%	EXCEEDS	124 FT 3 IN	0.009

AREA OF DISTURBANCE:

FOR ALL 3 SITES INCLUDING HOUSE SITE, ACTIVE SEPTIC AND EXTENT OF NEW DRIVEWAY THE TOTAL IS 42,513 S.F. (THIS INCLUDES A BUFFER FOR CONSTRUCTION ACCESS AROUND ALL DISTURBANCES)

NOTES:

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3. A ROAD MAINTENANCE AGREEMENT IS BEING FILED SIMULTANEOUSLY WITH THIS SUBDIVISION MAP.

ARCHITECT:

BarryPrice Architecture
40 Box 124
Barnesville, NY 12819
848-474-1382
info@barryprice.com
www.barryprice.com

PROJECT NUMBER:

HOPKINS ARCHITECT+
20-175-004-2023

STRUCTURAL ENGINEER:

PROFESSIONAL ENGINEERING
2-14-0-000000

PLANNING CONSULTANT:

ECOSOL
2-14-0-000000

PROJECT:

MALLAM FAMILY REVOCABLE TRUST
SUBDIVISION &

DATE:

DRAWN:

SCALE:

DATE:

FILED:

A-1.0

FILED DATE:

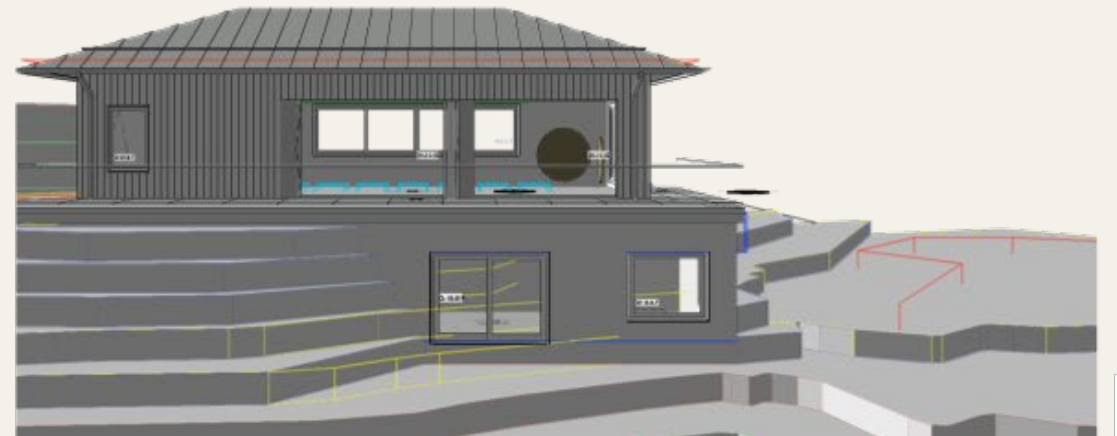
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WHAT ACCELERATES THE TRANSFER?

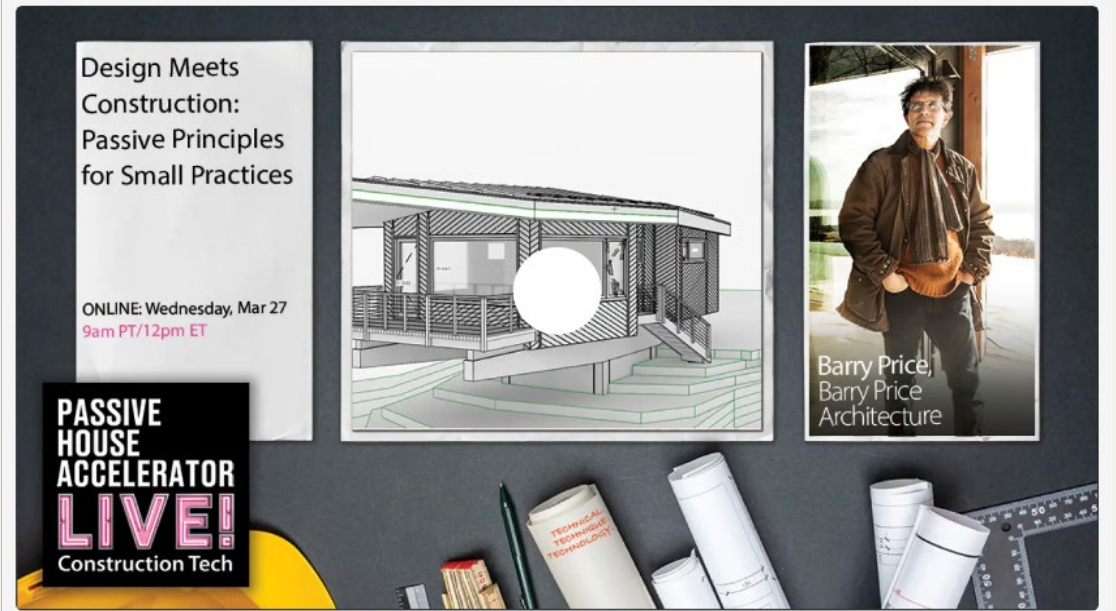




REMEMBER THE GOAL REMAINS TO DELIVER INSPIRING BUILDINGS.

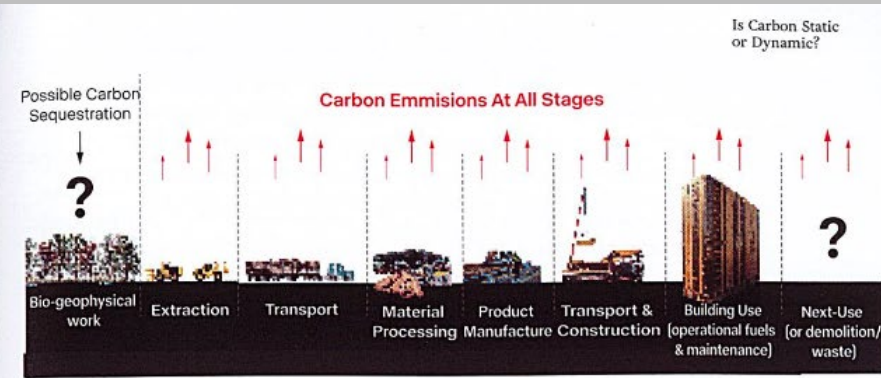
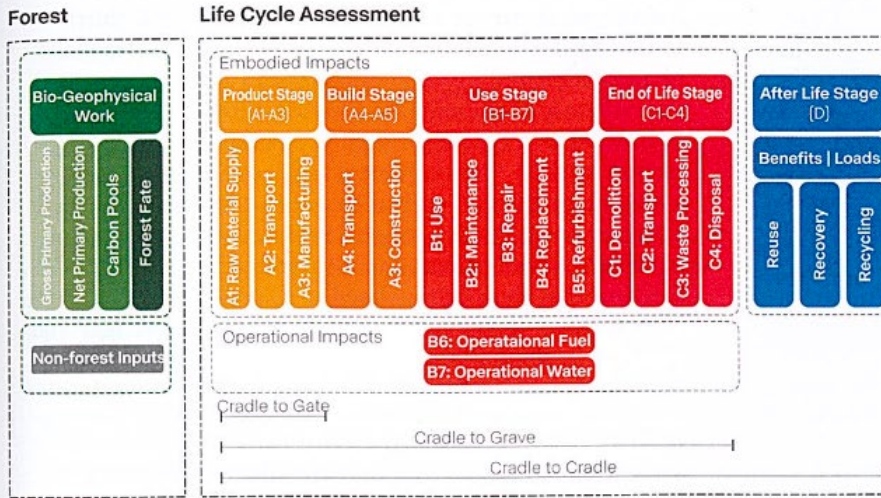


5. Reflection: A careful, deep thought about something.



EMBRACE OPPORTUNITIES TO SHARE EXPERIENCE AND LESSONS..





Product-Centric Market Metaphors (Receiver Theory of Value)

The Terrestrial Ecology and Carbon Cycling of Timber Building Technics (Donor Theory of Value)

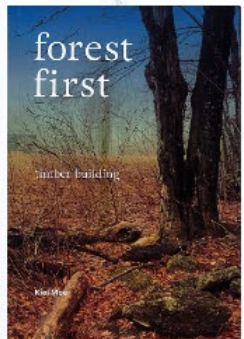


Figure 2: The bio-geophysical work of the forest is the only source of carbon sequestration and thus forest dynamics and trajectories ought to shape the functional unit of timber building carbon accounting.

SECTION	CATEGORY
Footings & Slabs	CONTINUOUS CONCRETE FOOTINGS
Footings & Slabs	CONCRETE COLUMN FOOTINGS, PADS & PIERS
Footings & Slabs	CONCRETE SLABS
Footings & Slabs	REBAR FOR CONTINUOUS FOOTINGS
Footings & Slabs	REBAR FOR COLUMN FOOTINGS, PADS & PIERS
Footings & Slabs	REINFORCING MESH FOR SLAB
Footings & Slabs	SUB-SLAB INSULATION
Structural Elements	STRUCTURAL TIMBER
Exterior Walls	LIGHT WOOD FRAME WALLS
Exterior Walls	STRUCTURAL SHEATHING
Exterior Walls	CAVITY INSULATION
Exterior Walls	CONTINUOUS INSULATION
Exterior Wall Cladding	EXTERIOR WALL CLADDING
Exterior Wall Cladding	STRAPPING / FURRING
Exterior Wall Cladding	INTERIOR CLADDING FOR EXTERIOR WALLS
Windows	WINDOWS - TRIPLE-GLAZED
Interior Walls	LIGHT WOOD FRAME INTERIOR WALLS
Interior Walls	CLADDING FOR INTERIOR WALLS
Floors	LIGHT WOOD FLOOR FRAMING
Floors	SUB FLOORING

CONCRETE NOTES

- ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE: ACI 318-19 & THE NEW YORK STATE BUILDING CODE w/ EMPHASIS ON CH. 19 - CONCRETE.
- CONCRETE SHALL CONSIST OF THE FOLLOWING:
 - READY MIX CONCRETE (ASTM C94)
 - 28 DAY COMPRESSIVE STRENGTH - ASTM C 39/C 39M (UNLESS NOTED)
 - FOOTING 3,500 PSI
 - WALL/PIER 4,000 PSI
 - INTERIOR SLAB 3,000 PSI
 - EXTERIOR SLAB 4,000 PSI
 - MAX. WATER / CEMENT RATIO 0.50
 - 0.0% AIR CONTENT
 - MAX. WATER / CEMENT RATIO 0.50
 - MAX AGGREGATE CONTENT SIZE OF 3/4 INCH (ASTM C33)
 - MAX SLUMP OF 3" + OR - AN INCH (ASTM C143)
 - FIBERMESH OR APPROVED EQUAL: 1.5 LBS / CUBIC YARD (WHEN INDICATED)
 - PORTLAND CEMENT: ASTM C 150, TYPE 1 OR ASTM C 395, TYPE II
 - CLEAN POTABLE DRINKING WATER
 - AIR CONTENT TO BE 6% +/- 1.5% (INTERIOR SLABS TO HAVE 0% AIR)
 - FLY ASH (CLASS F) ASTM C-618
- REINFORCING STEEL SHALL CONSIST OF THE FOLLOWING:
 - REINFORCING BARS: ASTM -A 615 GRADE 60 KSI
 - WELDED WIRE FABRIC: ASTM A 185
- CONTRACTOR TO TAKE ANY AND ALL FEASIBLE STEPS TO REDUCE THE CARBON FOOTPRINT OF THE FOUNDATION SYSTEM, INCLUDING BUT NOT LIMITED TO:
 - USE OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS, BUT NOT LIMITED TO: FLY ASH (CLASS F) ASTM C-618 (UP TO 25% REPLACEMENT)
 - USE OF RECYCLED CONCRETE AGGREGATE (RCA), ASTM C33, NOTIFY ENGINEER & PROVIDE MIX DOCUMENTATION FOR REVIEW
 - FOR NYS, MAXIMUM GLOBAL WARMING POTENTIAL (GWP) TARGET VALUE FOR LOW EMBODIED CARBON CONCRETE IS 360 kg CO₂e/m³ (KILOGRAMS OF CARBON DIOXIDE EQUIVALENT PER CUBIC YARD), TARGET VALUE TO BE SET BY CONTRACTOR





THE NUMBER OF PROJECTS YOU'LL REALIZE IF YOU WAIT FOR OWNERS TO ASK YOU.



WHAT ACCELERATES THE TRANSITION?



ONCE YOU EMBRACE AN APPROACH, YOU WON'T LOOK BACK.

How do we **accelerate** the transfer?

01

Education

A professional obligation.

Practitioners as translators and advocates.

02

Collaboration

Shared ownership.

The responsibility to challenge assumptions.

03

Implementation

Agility on site.

Refinement and iteration, embraced.

04

Leadership

Proactive, not reactive.

High performance as baseline, before anyone asks.

05

Reflection

Capture and share.

Lessons learned shape the next project.

Questions, stories and pushback welcome.

25 MIN