



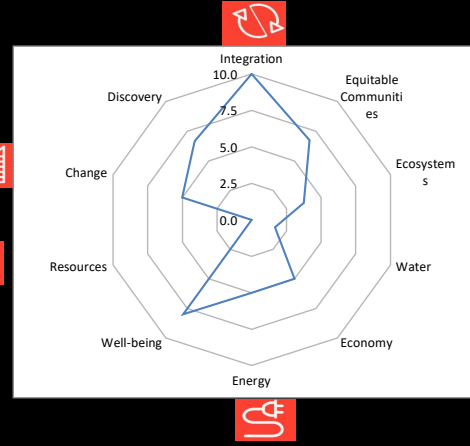
COMMON APP FOR DESIGN EXCELLENCE

AIA COTE Top Ten Toolkit

Enter information into the below fields to the best of your knowledge. Fields that are not applicable or where information is unavailable can be left blank.

The spider chart to the right is a visual representation of your project's performance as it relates to the AIA's Frameworks for Design Excellence (F4DE). The intent is to use it as a comparative tool where you can quickly visualize areas of strength and opportunities for growth or improvement. Higher performing measures will have longer spokes that reach the outermost concentric circles, while measures that have greater potential will align more with the core of the chart.

Please report any bugs via this link: <https://forms.gle/XXKfFB1Gq65PAwo7>. All reported issues will be reviewed by the COTE Network, and feedback will be incorporated into the next annual update.



PROJECT INFORMATION

Project Name
Client
Is client to remain confidential?

LOCATION + SIZE

Address
City
State / Province
Zip Code / Postal Code
Country
Climate Zone
California Climate Zone (if located in California)

Building use Primary building use | Percent of total area
Additional building use | Percent of total area (if any)
Additional building use | Percent of total area (if any)

Project Scope
Number of Stories
Total Floor Area
Site Area
Floor Area Ratio

COST DATA

Permit year
Total Construction (Building) Cost
Cost per GSF

USE DATA

Annual hours of operation (during normal use)
Typical occupancy
Total person hours

2030 COMMITMENT + RATING SYSTEM

2030 Challenge Goal
Is the submitting firm a signatory of the AIA 2030 Commitment?
Is the project recorded in the AIA 2030 Design Data Exchange (DDx)?
Is the project certified with a third party rating system?
If so, record the certification(s) and year(s) achieved (not targeted)

INPUTS

HT Residence
Confidential

2004 Pacific Ave.
Manhattan Beach
California
90266
United States
CA15

Building Type	Percentage of total GSF
Residential - Single family	100%
	100%

New Construction
1
1,400
5,040
0.28

2019
\$ 2,100,000
\$ 1,500

168
4
34,944

70%
Yes
Yes
No

UNITS / DEFINITION

For proj outside the cont'l US + Hawaii, find your US equivalent climate zone here → [US Equivalent Zip Codes](#)
Find your US climate zone here → [ASHRAE climate zones](#)
Find your California climate zone here → [CA climate zones](#)

Find building type definitions here → [EIA building type definitions](#)
Energy baselines are auto generated based on the Zero Tool → [Zero Tool](#)
For laboratory buildings, assign 100% of the area to Laboratory → [Lab21 Benchmarking](#)

GSF Conditioned space + non-conditioned programmed space

SF ← This is the intensity of land use (higher is better in a an urban setting)

USD Do not include land acquisition, soft costs, FFE, etc.
USD/GSF This auto calculated field can be overwritten

Hours/week For example, 24/7=168, Weekdays 9-5=40, Weekend 9-5=16
People Occupancy during normal use
Person-hours/year This calculated value is the building's intensity of use

Energy reduction from the Zero Tool baseline (CBECS 2003)
Learn more about the AIA 2030 Commitment here → [AIA 2030](#)
Learn more about the DDx here → [AIA 2030 DDX](#)

LINKS / SUPPORT



Measure 1

Good design elevates any project, no matter how small, with a thoughtful process that delivers both beauty and function in balance. It is the element that binds all the principles together with a big idea.

Good design elevates any project, no matter how small, with a thoughtful process that delivers both beauty and function in balance. It is the element that binds all the principles together with a big idea.

[AIA Framework for Design Excellence for detailed strategies](#)

UNITS / DEFINITION

LINKS / SUPPORT

Project Summary Statement

In a neighborhood known for its traditional mansions, the design ambition for this home was to challenge the suburban status quo by introducing a small, sustainable structure. On paper, its 1400 square feet disguise the density of design decisions that were required to craft a space that maximizes healthy rituals and environmentally sensitive living. From a full size heat-recovery lap pool, to passive ventilation system, to a super-insulated roof, every inch of the double gabled volume is calibrated to challenge convention and promote a responsible lifestyle.

Describe your project. Emphasize design achievements including design intent and program requirements. Describe specific ways in which you achieved and integrated these goals and requirements and any other distinguishing aspects of your project.

Client Impact Statement

200 words max

Relate how the project came to be, including the client's goals and what impact the finished project has made on the client, users, and/or the community.

Statement of Design Excellence

Describe this project's approach to sustainability through design. How does the project use architectural design to benefit the occupants, community, and planet. For example, when outdoor temperatures are extreme and air quality is poor due to pollution or wildfire smoke, how does the project conserve energy and protect the occupants? (This question addresses real impact. No fluff.)

Measure 2
Ghvljq#iru#Htxlwdeoh#Frppxqlwlv

Design solutions affect more than the client and current occupants.
Good design positively impacts future occupants and the larger community.

[AIA Framework for Design Excellence for detailed strategies](#)

COMMUNITY ENGAGEMENT

Community engagement level

INPUTS

Informing

UNITS / DEFINITION

[Learn more about community engagement](#)

LINKS / SUPPORT

[Arnstein's Ladder of Citizen Participation](#)

Community stakeholder narrative

Were notable community engagement efforts part of the process? If so, briefly describe them. For all submittals, describe ways in which the project improves or contributes to the surrounding community or natural landscape.

SOCIAL JUSTICE, EQUITY, DIVERSITY, AND INCLUSION

Does the project benefit people who are not directly associated with the project?

Yes

If so, provide an example:

MOBILITY AND ACCESS

Walk Score

93

Transit Score

60

Bike Score

60

This link will assign a score (0-100) for non-vehicle transportation opportunities based on the project's address. Report a unique score for walking, biking, and public transit

[Walk Score](#)

Alternative strategies for remote / rural projects (if applicable):

Briefly describe design strategies used to limit the negative impacts of vehicular transportation that might not be reflected by the scores above.

NARRATIVE

Design for Equitable Communities Narrative

Neighbors in the community were shocked and delighted to see a new home being built at a more modest scale. The previous owner of the property, now an elderly gentleman, had expected to feel a sense of loss when his previous home was demolished. However, when walking through the new space, experiencing the soulfulness of the home, and feeling the connection to the landscape, he's become a huge fan of the project. The clients own one vehicle, and are more often seen riding their bikes around town. The backyard pool serves as a communal resource for multiple neighborhood children. During covid, swim instructors would come to the home, and teach lessons as groups of children would arrive and depart at their respective time slots. A local neighborhood newsletter celebrated the home as a new model for responsible living. Though the clients adore their home, it's become quite a favorite in the neighborhood.

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Measure 3 AIA Framework for Design Excellence for detailed strategies
 Ghvljq#iru#Hfrv|vwhpv Good design mutually benefits human and nonhuman inhabitants.

Site Context / Environment
 Was the site previously developed?
 Does the landscape design provide habitat for local fauna and pollinators?
 What percentage of the landscape design is native vegetation?
 Does the site design align with dark sky standards?
 Does project comply with recognized bird collision deterrence criteria?
 If yes, identify the standard or legislation used.

INPUTS	
Suburban	
Yes	
Yes	
50%	
No	
No	

UNITS / DEFINITION
 This will help the jury understand the project's context
 Building on previously developed sites is generally preferable
 Answer yes if the images in the design awards submission demonstrate clear design strategies for supporting wildlife
 Answer yes if all exterior lighting is full cutoff and indoor lighting does not leak onto the site at night
 Answer yes if you used a standard, i.e. ABC Prescriptive Criteria, LEED Credit, NYC Local Law 15, CSA A460; or other from a list of "recommended" or "recommended with reservation" legislation summarized by ABC.

LINKS / SUPPORT
[Int'l Dark-Sky Association](#)
[ABC's Bird-Friendly Building Design Existing Ordinances List](#)

Design for Ecosystems Narrative
 The design supports ecological health by carefully preserving the existing vegetation on the property. Protective barriers were constructed to guard the existing landscape from damage during construction. Additionally, a drip irrigation system sustained the plants during the course of construction. New site walls were soft-stacked in an organic pattern in order to avoid damaging the root system. And finally, new wood property line fences were carefully scribed to the trunks of the existing trees. Two small courtyards bring the occupants into close proximity to nature. The first courtyard is positioned directly opposite the front door. The geometry of the roof above this courtyard is elliptical, emphasizing the path of the sun across the southern sky. This small outdoor space

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Measure 4 AIA Framework for Design Excellence for detailed strategies
 Ghvljq#iru#Zdwhu Good design conserves and improves the quality of water as a precious resource.

Is stormwater managed on site?
 Is potable water used for irrigation?
 Is potable water used for cooling?
 Is grey/blackwater reused on site?
 Does the project design meet EPA "Water Sense" goals for indoor plumbing fixtures?
 Is rainwater collected and stored on site?

INPUTS	
No	
Yes	
No	
No	
No	
No	

UNITS / DEFINITION
 Answer yes if design strategies prevent most runoff into municipal sewers or natural waterways
 Projects are encouraged to develop irrigation strategies based on collected or recycled water
 Projects are encouraged to develop HVAC strategies that conserves potable water
 Answer yes if recycled water is reused on site, such as for toilet flushing or irrigation
 Answer yes if indoor fixture flowrates are at least 20% more efficient than code
 Answer yes if collected water offsets potential potable water use

LINKS / SUPPORT
 Does the project incorporate approaches to water conservation that go beyond code requirements? If so, briefly describe them.

Design for Water Narrative
 Lap Pool & Hydronic System - In addition to daily fitness routines, the pool is used as part of the home's hydronic heat system and is integrated into the boiler exchange. The thermal mass of the pool supports the heat of the radiant floors.
 Solar Hot Water - Solar panels on the roof warm the water used for the heat exchange systems, connecting the radiant floors and leveraging the thermal mass of the pool. These solar panels are located only on the south-facing slope of the gable roof.
 Hydronic Floors - Radiant heated floors provide the most efficient heat to the occupants of the home, serving six separate zones.
 Heat Exchange System - The house has a single boiler system with four separate heat exchangers: Solar Hot Water, Hydronic Floors, Pool Pump & Domestic Hot Water.

Does the project incorporate approaches to water conservation that go beyond code requirements? If so, briefly describe them.

Measure 5 AIA Framework for Design Excellence for detailed strategies
 Ghvljq#iru#Hfrqrp| Good design adds value for owners, occupants, community, and planet, regardless of project size and budget.

Building efficiency / right sizing
 Cost Per GSF

INPUTS	
\$	350

UNITS / DEFINITION
 GSF/Occupant *Based in the inputs above*
 USD/GSF *Reference from Cost Data above*

LINKS / SUPPORT

Describe strategies taken to "right size" the building
 While most homes in this neighborhood are well over 4,000sf, this home is a modest 1,400sf. The client and design team were committed to demonstrating that a small footprint can make a big impact.

Reference the above autogenerated metric to describe efforts taken to "right size" the building

Does the project address issues of affordability?	No
Does the project reduce built area by designing spaces for multiple purposes?	Yes

If yes, elaborate in the narrative below
If yes, elaborate in the narrative below

Design for Economy Narrative
While most new homes in the neighborhood are well above 4,000sf, this 1,400 sf home demonstrates that a small footprint can still make a significant impact. Though the floor plan is modest, the soaring ceilings create a feeling of abundance and sanctuary. In order to create this feeling of generosity, several spaces are required to serve multiple functions. The outdoor courtyard also serves as the yoga studio. The trellised patio also serves as the dining room. The loft above the kid's room expands the utility of the space. Additionally, nearly every wall (and below every bench) is a built-in storage solution. The breakfast nook features a custom 3-legged table, allowing easier access to the storage below the banquet.

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Measure 6 | Ghvljq#iru#Hghuj | Good design reduces energy use and eliminates dependence on fossil fuels while improving building performance, function, comfort, and enjoyment | AIA Framework for Design Excellence for detailed strategies

BASELINE + CODE	INPUTS	UNITS / DEFINITION
Energy Code that the project was designed to meet? Benchmark EUI Estimated EUI based on applicable energy code	California Title-24 2019	kBtu/sf/yr ← This is baseline is auto generated based on building type kBtu/sf/yr ← This is baseline is auto generated based on the local energy code
ENERGY PERFORMANCE How are you reporting energy performance for this project? EUI Gross (Energy consumed on site from all sources) EUI offset from onsite renewables EUI Net (Gross EUI minus EUI offset from onsite renewables) Reduction from benchmark, including renewables Does the project meet the 2030 Challenge? Percentage of project's total energy use met by renewables		How to determine EUI from Title 24 → Measured energy is always preferred Add up the total annual energy and divide it by gross square feet For projects with solar or wind, divide annual generation by GSF If no onsite renewables, enter 0 ← This autogenerated metric is the project's total energy reduction ← It's important for our industry to aim high
ENERGY CONSERVATION PROCESS + STRATEGIES If the project was modeled, what type of energy model was performed? Was the energy model used to inform decisions during design? Did the project follow prescriptive performance to meet the energy code?	Design energy model Energy performance model Yes	A design energy model is best. Compliance models have limited ability to influence design Modeling energy is a good start, but the real benefit is when its used a tool to improve design Best practice is to achieve the prescriptive code criteria at a minimum

LINKS / SUPPORT
[EUI from Title 24](#)
Note: Interior only, landscape, and master planning projects do not need to list an EUI. If EUI is not applicable to your project, list energy conservation strategies here.

Design for Energy Narrative
No Air Conditioning - At first, the owners were nervous about not having a traditional air conditioning system. However, through a lengthy education process, they decided to deploy a more holistic approach to the home's performance. This slender 1" vent is the only visible evidence of the ERV (Energy Recovery Ventilation) system.
No Recessed Lighting - The primary spaces in the home avoid the use of recessed lighting, relying instead on ample natural daylighting.
Ceiling Fans - Ceiling fans are used in all primary spaces to provide air circulation. Shades at windows reduce heat gain.

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Measure 7 | Ghvljq#iru#Zhoo0Ehlqj | Good design supports health and well-being for all people, considering physical, mental, and emotional effects on building occupants and the surrounding community. | AIA Framework for Design Excellence for detailed strategies

INPUTS	UNITS / DEFINITION
Do regularly occupied spaces have operable windows?	Generally, can an occupant easily access fresh air?
Were glazing strategies studied to optimize daylight against excess heat gain?	This would most likely take the form of building simulation modeling
Is indoor air filtered with MERV 13 or better?	Is air being filtered to protect equipment or to protect occupants? (>MERV 13)
Was ventilation, either natural or mechanical, optimized for occupant health?	Answer yes if the project is designed to achieve a maximum CO2 of less than 1000ppm
Was a "Chemicals of Concerns" list used to inform material selection?	Were specific toxic chemical intentionally avoided, resulting in material substitutions?

LINKS / SUPPORT
Living Product Challenge / Living Building Challenge Red List / Declare
HPD Collaborative
Cradle to Cradle / Level / UL Lense
WELL Building Standard
Healthier Hospitals Initiative Safer Chemicals
Kaiser Permanente Facilities Design Program

Design for Well-being Narrative
Everyday, the homeowners swim. Everyday, they are drawn to experience the courtyards. Everyday, they open their outwing casement windows. Everyday, they engage their garden. Hosting has become a special occasion, as their small home educates their neighborhood on the potency of compact design. Even the journey to their front door is unique. Rather than entering at the street and walking down an interior hallway, this journey includes a garden path down a landscaped side yard. The story of the home emphasizes the landscape that preexisted the home. Guests will notice the slender lap pool, little courtyards, and timeless exterior materials, all before stepping into the home.

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[TEN Key Daylight & Electric Light Metrics](#)



Measure 8 Ghvljq#iru#Uhrxufhv

Good design depends on informed material selection, balancing priorities to achieve durable, safe, and healthy projects with an equitable, sustainable supply chain to minimize possible negative impacts to the planet.

[AIA Framework for Design Excellence for detailed strategies](#)

	INPUTS	UNITS / DEFINITION	LINKS / SUPPORT
Did the project reuse an existing structure?	No	<i>Embodied Carbon: What you can do right now→</i> <i>Rounded to the nearest 10%</i> <i>If "Other" or "Mix", please specify in the narrative</i> <i>This is the future of climate focused design</i> <i>This is typically reported in kg-CO2e</i> <i>If "Other", please specify in the narrative</i> <i>Answer yes if an analysis of available local or recycled materials influenced design decisions</i> <i>Answer yes if 95%+ wood is certified</i> <i>Embodied Carbon Visualization→</i>	High Impact
What percent of the existing structure was reused?	Wood Frame		
Identify the primary structural system			
Was a whole building environmental Life Cycle Analysis (LCA) conducted?			
Provide total predicted embodied carbon results and units	Wood Frame		
Were design strategies implemented to substantially reduce material or embodied carbon?	Wood Structure		
If yes, please select from the following:			
Was local and/or recycled content a major criterion for material selection?			
Was wood used on this project FSC certified?			
Design for Resources Narrative			
<p>The home was designed as a family heirloom, embracing personal selections while balancing a timeless palette. Rather than importing an exotic wood, the rear trellis was constructed of domestic lumber. The client embraced the natural aging process and invited the landscape to eventually overtake, encapsulate, and ultimately protect the lumber. Rather than poured concrete slabs, the exterior hardscape is defined by traditional black and white cobblestones. This prevents the unsightly cracks that plague concrete slabs and again, allows the natural aging process to be one of beauty. The interior wood floors were carefully sourced from Madera, a hardwood company known for their commitment to sustainably sourced, treated, and transported products. All custom carpentry and custom furniture was designed and produced locally. Though the wallpaper was imported from Europe, the client considers the hand-painted silk coverings to be the treasured art within the home.</p>		<p>Rawlrdqdo#surpswv=</p> <p>0#Lqqrwdlyh#vrxufqj#ri#pdwhuldov#####0#Uhxvh#ru#xvh#ri#uhf folog#pdwhuldov</p> <p>0#Hillflhqw#xvh#ri#pdwhuldov#Ilqlvkhv#####0#Exloglqj#uhxvh</p> <p>0#Orz#fduerq#frqfuhw#ru#rwkhu#orz#hperglhg#fduerq#vwudwhjlv</p> <p>0#Zkdw#idfvrwv#sulrulwlv,#zhuh#frqvlghuhg#lq#pdnlqj#pdwhuldov#vhonflwrq#ghflvrqvb##</p> <p>0#Krz#g#surmhfw#pdwhuldov#dgg#surxgfw#uhgxfh#hperglhg#fduerq#dgg#hqlurqphqdo#lpsdfwvB##</p> <p>0#Krz#gchv#wkh#surmhfw#surprwh#}hur#zdvwh#wkuxjkrxw#lww#olih#f fobB##</p> <p>0#Krz#oxqj#zloo#wkh#surmhfw#odvw/#dgg#krz#grhvwkdw#dihfw# rxu#pdwhuldov</p>	



Measure 9 Ghvljq#iru#Fkdqjh

Adaptability, resilience, and reuse are essential to good design, which seeks to enhance usability, functionality, and value over time.

[AIA Framework for Design Excellence for detailed strategies](#)

	INPUTS	UNITS / DEFINITION	LINKS / SUPPORT
What is the designed lifespan of the building?	30	<i>30yrs for stick frame; 100yrs for concrete, steel, heavy timber; 1000yrs for solid masonry</i> <i>Answer yes if the structural members are bolted, rather than nailed or welded</i> <i>Answer yes if the building can be easily used for a different purpose in the future</i> <i>Select the appropriate resiliency measure using the dropdown</i> <i>Answer yes if design features anticipate future climates or social conditions</i> <i>ex: wildfire smoke, flooding, extreme temperatures, etc.</i>	AIA Guide
Was the building designed for disassembly?	No		
Was future flexibility design into the program?	No		
Can the building remain useful for the short term without utility power?	Yes, Renewable Energy w/Battery		
Has the design considered the impact of climatic change over the building's lifespan?	Yes		
Identify a local risk that the project has been designed to mitigate	Power Outage		
If other, list here:			
Design for Change Narrative			
<p>As the family grows and the children become more mature, the design team acknowledges that changes will be part of the lifecycle of the home. This influenced the design to make some furniture permanent built-ins, while others are intended to function for a few years. Custom bunks beds will serve the family for approximately five years and will then graduate to a different family. In 10 years, the bathroom may receive a cosmetic remodel and the bedroom may receive new furniture. However, the shell of the home is designed with a spirit of flexibility and timelessness.</p>		<p>Rawlrdqdo#surpswv=</p> <p>0#Vwudwhjlv#iru#ixwuh#fkdqjh2dgdswdlrq</p> <p>0#Krz#gchv#wkh#surmhfw#dgguhvv#ixwuh#ulvvn#dgg#yxqghudelolwlv#iurp#vrfldo/#lfrqrplf/#dgg#hqlurqphqdo#</p> <p>fkdqjhB</p> <p>0#Krz#l#wkh#surmhfw#ghvljqg#iru#dgdswdlrq#wr#dqwflsdwh#ixwuh#xvhv#ru#fkdqjlgj#pdunhwvB</p> <p>0#Krz#schv#ukh#surmhfw#dgguhvv#dgg#surmhfw#surprwh#}hur#zdvwh#wkuxjkrxw#lww#olih#f fobB##</p>	

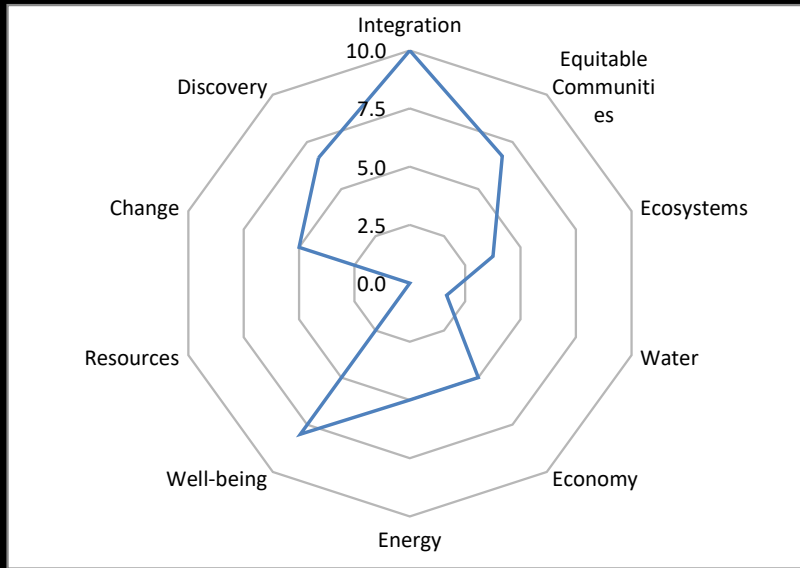


Measure 10 Ghvljq#iru#Glvfryhu|

Every project presents a unique opportunity to apply lessons learned from previous projects and gather information to refine the design process.

[AIA Framework for Design Excellence for detailed strategies](#)

	INPUTS	UNITS / DEFINITION	LINKS / SUPPORT
Was a post occupancy evaluation planned for or will it be conducted on this project?	No	<i>This is an important strategy for achieving any of the above performance criteria</i> <i>This is an important strategy for understanding and providing for occupants needs</i> <i>Discovery should lead to improvements</i>	LINKS / SUPPORT
Was an occupant satisfaction survey planned for or will it be conducted on this project?	Yes		
Were improvements made (or will they be made) during occupancy based on findings?	Yes		
Design for Discovery Narrative			
<p>During the design process, the client embraced an open mind towards discovering new approaches to suburban living. This home stands in sharp contrast to the predictable, over-sizes, generic and wasteful template of most luxury homes. Though the interior square footage is less than half of the average home in the neighborhood, the impact it makes is clear. Everyone who enters the home is struck by the generous ceiling heights, cheerful palette, clever solutions, and integration of outdoor space. This home demonstrates a unique pairing of modesty and exuberance. It was born from a conviction that a home can be both emotionally delightful and intellectually stimulating.</p>		<p>Rawlrdqdo#surpswv=</p> <p>0#Vwudwhjlv#iru#ixwuh#fkdqjh2dgdswdlrq</p> <p>0#Ohvvrq#ohduqhg#,#zkdw#zrxog# rx#g#gliluhqwo B</p> <p>0#Krz#glg#wkh#surmhfw#ghvljqg#surfhw#irvwhu#d#orqj0whup#uhodwlrqvkls#ehwhhg#ghvljqghuv/#xvhuv/#dgg#</p> <p>rshudwrv#wr#hqvuh#ghvljqg#lqwhqwrqvw#dub#uhdo hg#dgg#wkh#exloglqj#surmhfw#shuirupdqfh#fdq#lpsuryh#</p> <p>ryhu#wlphB</p>	



Project Summary Statement

In a neighborhood known for its traditional mansions, the design ambition for this home was to challenge the suburban status quo by introducing a small, sustainable structure. On paper, 1400 square feet disguise the density of design decisions that were required to craft a space that maximizes healthy rituals and environmentally sensitive living. From a full size heat-recovery lap pool, to passive ventilation system, to a super-insulated roof, every inch of the double gabled volume is calibrated to challenge convention and promote a responsible lifestyle.

Client Impact Statement

200 words max

Statement of Design Excellence

0

Design for Equitable Communities Narrative

Neighbors in the community were shocked and delighted to see a new home being built at a more modest scale. The previous owner of the property, now an elderly gentleman, had expected to feel a sense of loss when his previous home was demolished. However, when walking through the new space, experiencing the soulfulness of the home, and feeling the connection to the landscape, he's become a huge fan of the project. The clients own one vehicle, and are more often seen riding their bikes around town. The backyard pool serves as a communal resource for multiple neighborhood children. During covid, swim instructors would come to the home, and teach lessons as groups of children would arrive and depart at their respective time slots. A local neighborhood newsletter celebrated the home as a new model for responsible living. Though the clients adore their home, it's become quite a favorite in the neighborhood.

Design for Ecosystems Narrative

The design supports ecological health by carefully preserving the existing vegetation on the property. Protective barriers were constructed to guard the existing landscape from damage during construction. Additionally, a drip irrigation system sustained the plants during the course of construction. New site walls were soft-stacked in an organic pattern in order to avoid damaging the root system. And finally, new wood property line fences were carefully scribed to the trunks of the existing trees. Two small courtyards bring the occupants into close proximity to nature. The first courtyard is positioned directly opposite the front door. The geometry of the roof above this courtyard is elliptical, emphasizing the path of the sun across the southern sky. This small outdoor space invites curved shadows to enter the home and dance across the floor.

Design for Water Narrative

100 words max

Design for Economy Narrative

100 words max

Design for Energy Narrative

100 words max

Design for Well-being Narrative

100 words max

Design for Resources Narrative

100 words max

Design for Change Narrative

100 words max

Design for Discovery Narrative

100 words max

Structural Systems	Reuse Components	Embodied Carbon Reduction Strategies	Local Risk List	Community Engagement	Percent Native
Concrete		Wood Structure	Drought	1 Manipulation 0.25	10%
Steel		Optimized Concrete Admixtures	Earthquakes	2 Therapy 0.50	20%
Heavy Timber		Reduction in Total Materials	Extreme Temperatures	3 Informing 0.75	30%
Mass Timber		Low-Carbon Insulation	Flooding	4 Consultation 1.00	40%
Wood Frame		Low-Carbon Exterior Cladding Material	Grid Instability	5 Placation 1.25	50%
Mix		Reduction in Glazing	Hail	6 Partnership 1.50	60%
Other		Low-Carbon Refrigerants	Pandemic / Epidemic	7 Delegation 1.75	70%
		Other	Power Outage	8 Citizen Control 2.00	80%
			Social Unrest		90%
			Other		100%
Energy				Passive Functionality	
Measured / Actual (from Utility Bills)				No, Not Habitable without P	0
Modeled / Predicted (from Energy Model)				Yes, Passive Survivability	0.56
None (Energy Code)				Yes, Fossil Fuel Generator	0.83
				Yes, Renewable Energy w/B	1.67

Building Type				Energy Benchmarking			Carbon Benchmarking Fuel Breakdown Table: lbs. CO2/kBtu for each fuel source *Assume natural gas					Embodied Carbon Benchmarking		Water Benchmarking		Building type aggregates					
Primary Use	Secondary Use	Tertiary Use	All Uses	Building Type	EUI	LPD	Building Category (Carbon)	Fuel Breakdown				Benchmark Carbon Lbs./sf/yr	Building Category (embodied carbon)	Lbs. CO2/sf	Building Category (Water)	Water Use Intensity (Gal/sf/yr)	Carbon Breakdown	EUI Breakdown	Water Breakdown	Embodied carbon	LPD Breakdown
								Electricity	Natural gas	Fuel oil	District heat*										
0%	0%	0%	0%	Bank	77	1.0	Office	70%	23%	1%	6%	0.0	Commercial	67	Office	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Bar / night club	52	1.2	Public assembly	57%	28%	1%	13%	0.0	Commercial	67	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Convention Center	66	1.1	Public assembly	57%	28%	1%	13%	0.0	Commercial	67	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Courthouse	118	1.2	Office	70%	23%	1%	6%	0.0	Commercial	67	Office	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Education - College / University	120	1.2	Education	54%	35%	3%	0%	0.0	Educational	96	Education	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Education - K-12 School	75	1.2	Education	54%	35%	3%	0%	0.0	Educational	96	Education	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Education - Other	76	1.2	Education	54%	35%	3%	0%	0.0	Educational	96	Education	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Education - Preschool	75	1.2	Education	54%	35%	3%	0%	0.0	Educational	96	Education	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Food - Fast Food	534	1.5	Food service	54%	44%	0%	0%	0.0	Commercial	67	Restaurant**	215.0	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Food - Grocery Store	213	1.5	Food sales	79%	21%	0%	0%	0.0	Commercial	67	Grocery Store	23.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Food - Restaurant	302	1.5	Food service	54%	44%	0%	0%	0.0	Commercial	67	Restaurant**	215.0	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Food - Sales	225	1.5	Food sales	79%	21%	0%	0%	0.0	Commercial	67	Grocery Store*	23.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Food - Service	351	1.5	Food service	54%	44%	0%	0%	0.0	Commercial	67	Restaurant**	215.0	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Laboratory	370	1.4	Inpatient	51%	37%	3%	9%	0.0	Educational	96	Inpatient	49.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Library	104	1.3	public assembly	57%	28%	1%	13%	0.0	Cultural/Institution:	92	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Lodging - Hotel	94	1.0	Lodging	54%	39%	1%	0%	0.0	Lodging	57	Lodging	41.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Lodging - Residence Hall	89	1.0	Lodging	54%	39%	1%	0%	0.0	Lodging	57	Lodging	41.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Medical - Hospital	227	1.2	Inpatient	51%	37%	3%	9%	0.0	Healthcare	75	Inpatient	49.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Medical - Office	59	1.0	Health care	51%	37%	3%	9%	0.0	Healthcare	75	Outpatient	15.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Medical - Outpatient surgery	73	1.2	Outpatient	67%	27%	0%	0%	0.0	Healthcare	76	Outpatient	15.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Meeting Hall	52	1.2	public assembly	57%	28%	1%	13%	0.0	Civic Building	50	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Movie Theater	95	1.6	public assembly	57%	28%	1%	13%	0.0	Cultural/Institution:	92	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Museum	95	1.6	public assembly	57%	28%	1%	13%	0.0	Cultural/Institution:	92	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Office	90	1.0	Office	70%	23%	1%	6%	0.0	Commercial	67	Office	14.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Performing arts	95	1.6	public assembly	57%	28%	1%	13%	0.0	Cultural/Institution:	92	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Public Assembly	66	1.1	public assembly	57%	28%	1%	13%	0.0	Civic Building	50	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Public Safety - Police, fire, etc.	90	1.0	Public safety	55%	31%	2%	0%	0.0	Civic Building	50	Public order and safety	42.1	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Recreation (Visitor Center)	66	1.1	public assembly	57%	28%	1%	13%	0.0	Civic Building	50	Public Assembly	25.7	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Religious Worship	46	1.3	Religious worship	47%	50%	3%	0%	0.0	Cultural/Institution:	92	Religious Worship*	7.3	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Residential - Assisted Living	124	1.0	Multifamily	60%	35%	5%	0%	0.0	Lodging	57	Senior Care*	60.2	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Residential - Multifamily	79	0.7	Multifamily	60%	35%	5%	0%	0.0	Multifamily mid-rise	56	Multifamily Housing	42.0	0.0	0.0	0.0	0.0	0.0
100%	0%	0%	100%	Residential - Single family	37.5	0.7	Single Family						Single family detach	55	Single family detached		0.0	37.5	0.0	55.0	0.7
0%	0%	0%	0%	Retail - Box Store	47	1.5	Retail (other than mall)	77%	20%	2%	0%	0.0	Commercial	67	Retail*	8.0	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Retail - Convenience Store	192	1.5	Retail (other than mall)	77%	20%	2%	0%	0.0	Commercial	67	Retail*	8.0	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Retail - General	72	1.5	Retail (other than mall)	77%	20%	2%	0%	0.0	Commercial	67	Retail*	8.0	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Retail - Mall	107	1.5	Enclosed and strip malls	66%	34%	0%	0%	0.0	Commercial	67	Enclosed and strip malls	11.8	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Self Storage	31	0.8	Warehouse and storage	66%	32%	0%	0%	0.0	Commercial	67	Warehouse and storage	3.4	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Services - General	77	1.4	Service	47%	45%	6%	0%	0.0	Commercial	67	Mercantile	12.6	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Warehouse	26	0.8	Warehouse and storage	66%	32%	0%	0%	0.0	Commercial	67	Warehouse and storage	3.4	0.0	0.0	0.0	0.0	0.0
0%	0%	0%	0%	Warehouse - Refrigerated	127	0.8	Warehouse and storage	66%	32%	0%	0%	0.0	Commercial	67	Warehouse and storage	3.4	0.0	0.0	0.0	0.0	0.0
			SUM		100%										SUM	0.0	0.0	37.5	0.0	55.0	0.7

The metrics below are not intended to be asked at this time, but some may be added in the future

ADDITIONAL PERFORMANCE METRICS

Percent of indoor potable water reduction	%	https://www.usgbc.org/RESOURCES/INDOOR-WATER-USE-CALCULATOR
Percent of stormwater managed on site	%	
Percentage of occupied areas daylight		<i>Not sure we have a way to ask about daylighting that is simple</i>
Number of Bike racks		
Number of showers		
Parking Spaces provided		
Parking Spaces required by code		
Is potable water used for cooling?	Y/N	
Is potable water used for irrigation	Y/N	
Rainwater reclamation?	Y/N	
Stormwater Quality	drop-down	
Predicted Gross EUI	kBTU/SF/Year	
Actual Gross EUI	kBTU/SF/Year	
Percent from Renewable Energy		
Lighting Power Density	Watts/SF	
Window Wall Ratio		
Regularly occupied space - percent daylight		
What percentage have quality views?		
Do occupants control their lighting levels		
Number of EPD speed		
Percentage of construction waste diverted from landfill		
Total cost of Recycled, regional, with certifications (declare, cradle to Cradle)		

METRICS BEYOND SCOPE - SEE TOP TEN

- Occupants Commuting by Alternative Transportation
- Predevelopment Development Vegetated
- Post Development Vegetated
- Percentage that is native
- Percentage that is turf
- ACOUSTICS
- VOC
- CO2