

T28-









Artisans Group Architecture and Planning is an award winning, women owned design studio, committed to high performance, net zero resilient buildings and communities. As planners, designers and architects, we advocate for healthy, equitable, transformational spaces, and soulful sustainability at every scale of project. Driven by good building science, we put things on the planet with great care, leveraging decades of experience into lasting relationships, and hundreds of realized dreams.





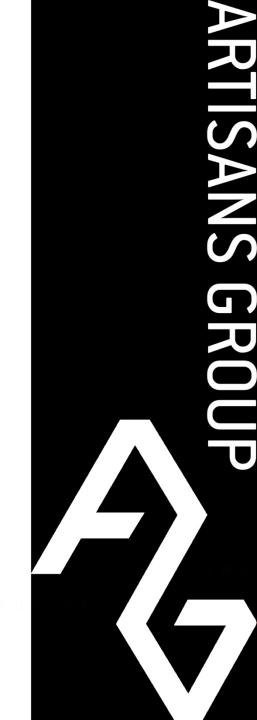








Who we are.

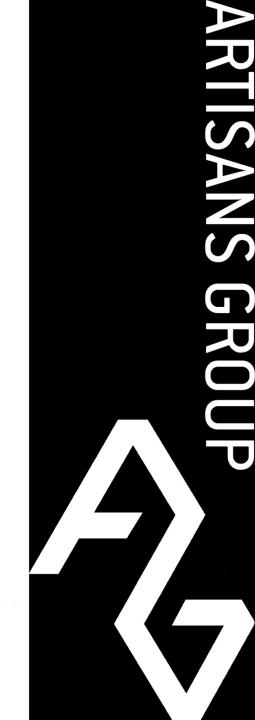








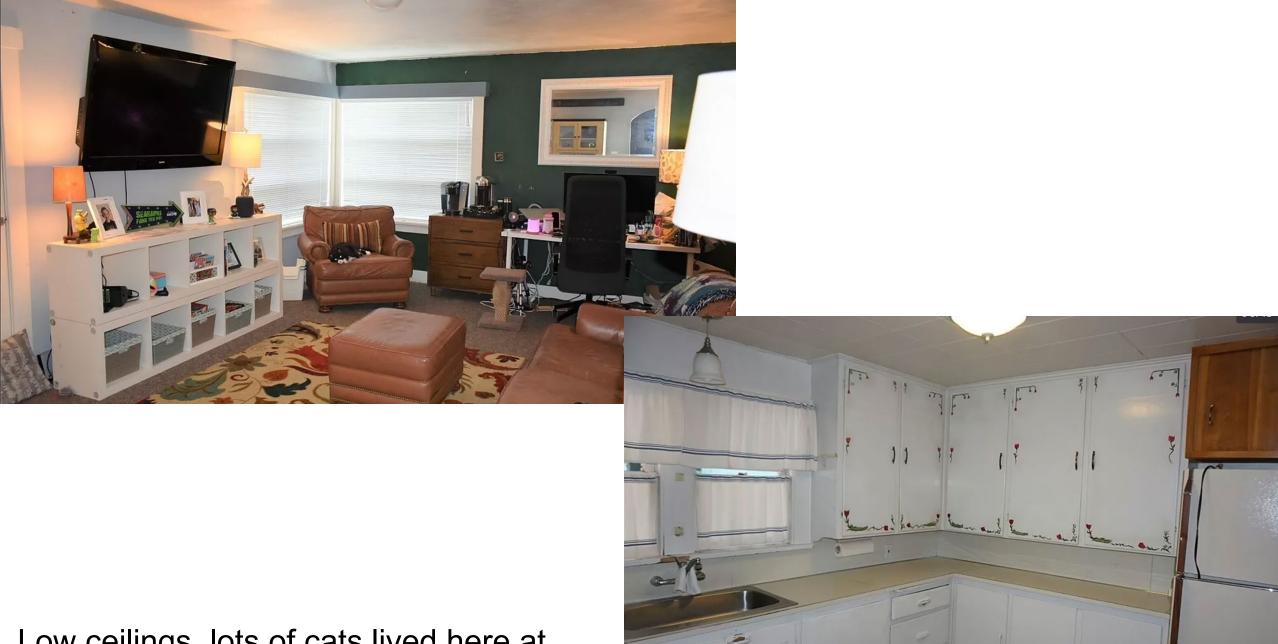
Where we started.





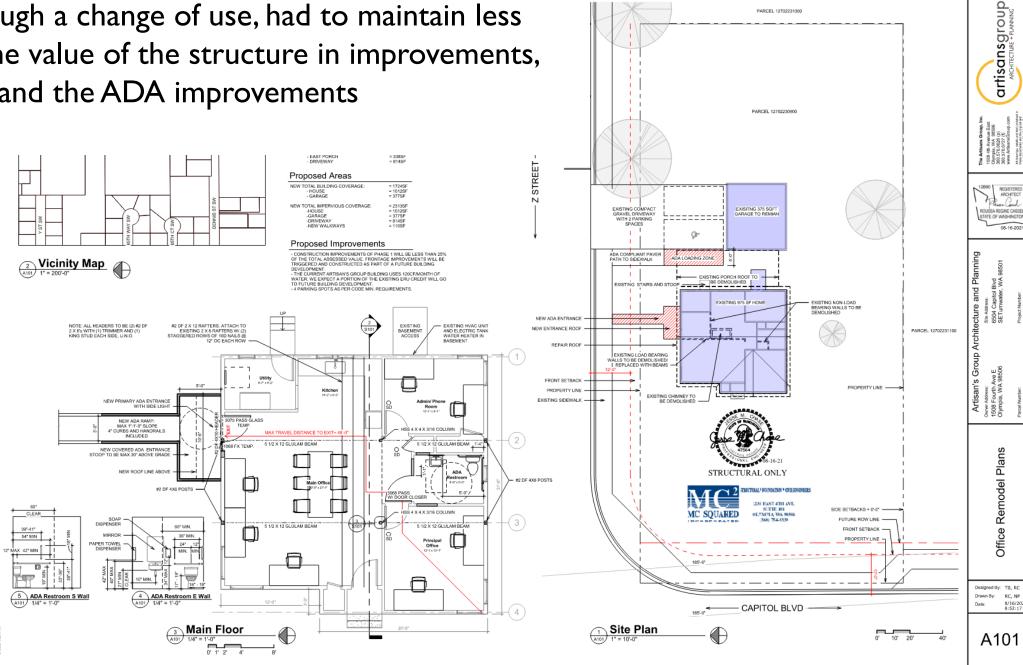
2y 2021

We bought a shitty house February 2021

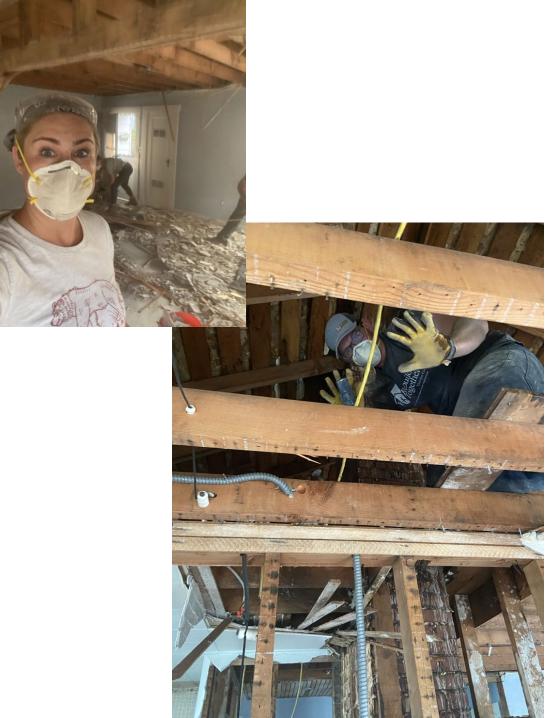


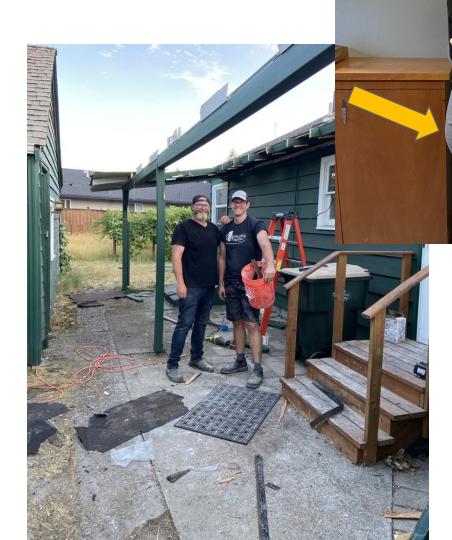
Low ceilings, lots of cats lived here at some point...also not an office legally.

We went through a change of use, had to maintain less than 25% of the value of the structure in improvements, minus repairs and the ADA improvements



PARCEL 12702231000







Scope creep!

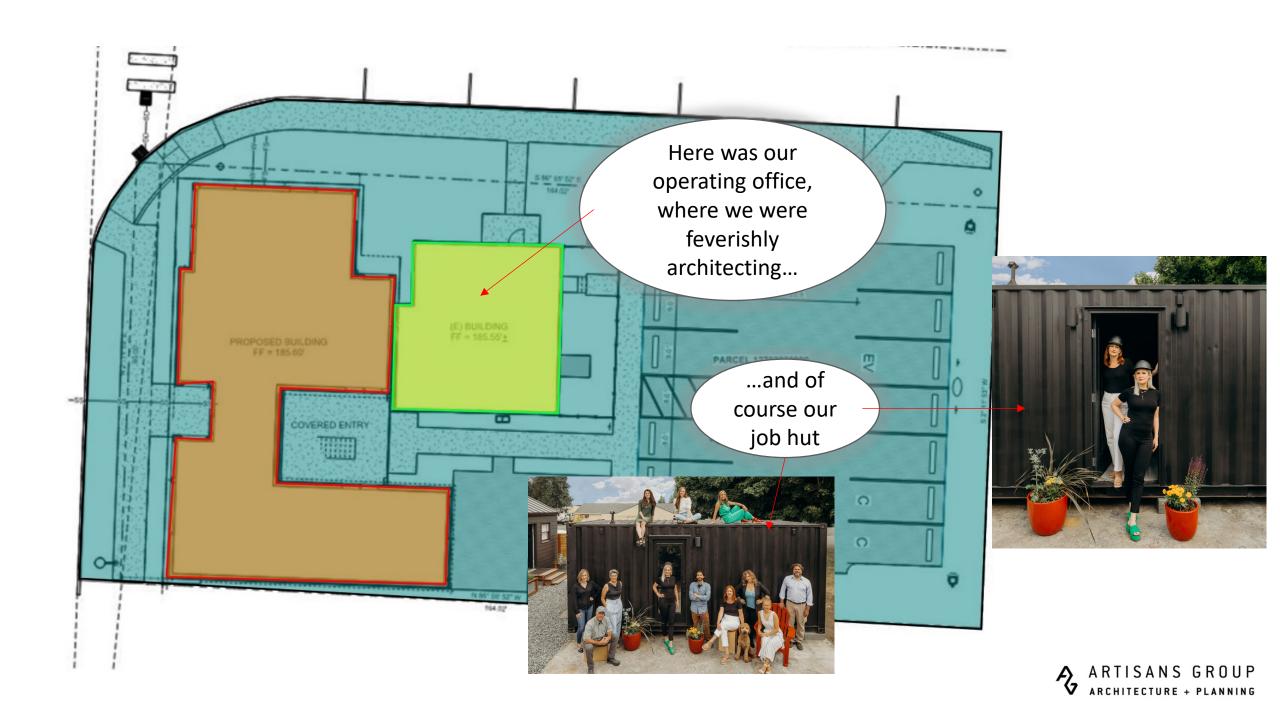
ARTISANS GROUP

ARCHITECTURE + PLANNING



We started out with a budget of 100K We spent 200K, NOT Passive building!



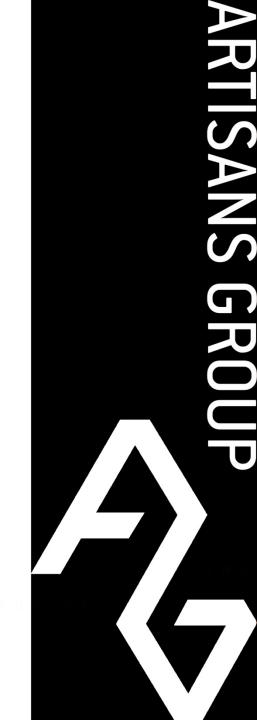






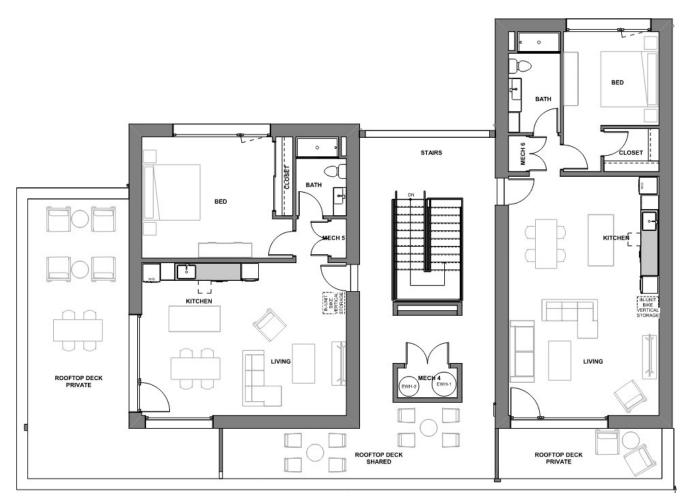
This is how long Land Use took us.....

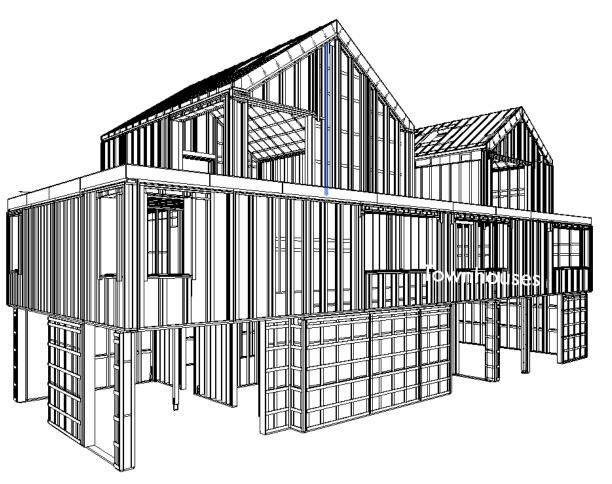
The Design, Assemblies, MEP.

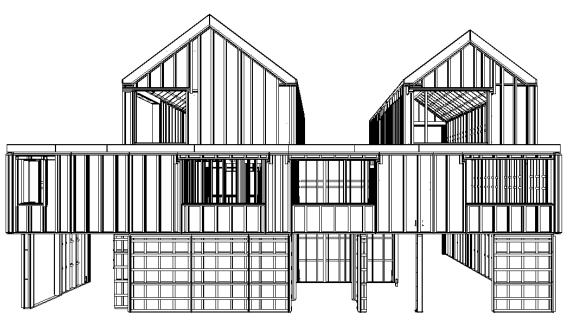














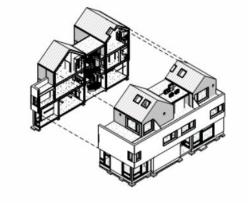






BUILDING SECTION LEGEND

OUTLINE OF CONTINUOUS AIR BARRIER





Sections



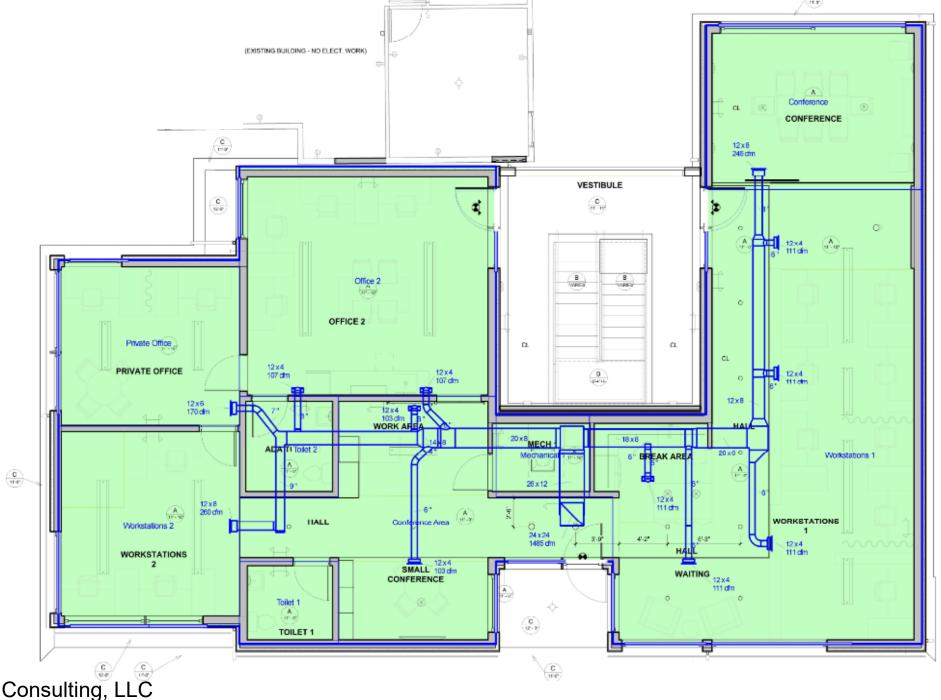




Aaron Barnett Build with Balance, LLC



Wesley Van Rite, P.E.

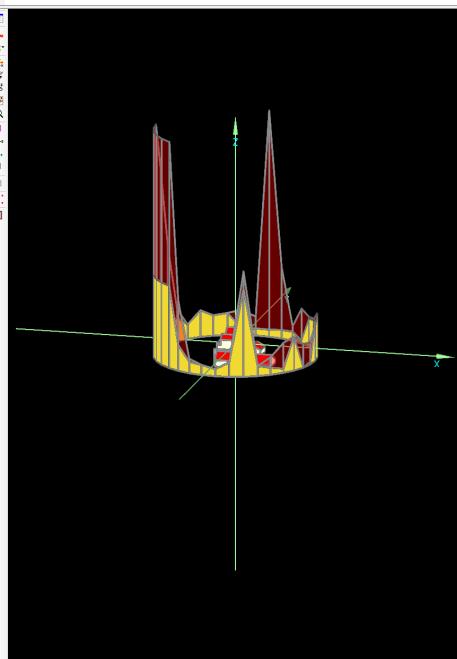


Principal at Engineered Projects Consulting, LLC

Table 0.5.3.2.0 Mixed-Use Certification Matrix								
Mixed-Use Certification Paths		Whole Building Certification		Partial Building Certification				
		Α	В	С	D			
Modeling & Certification	Separate energy models for residential & non-residential.	abla		abla				
	100% of the building floor area is modeled / certified.							
	≥ 50% of the building floor area must be modeled / certified.							
	Unknown non-residential spaces may not be certified alone.							
	Follows UF Protocol outlined in Phius Mixed-Use Approach.	abla	abla					
Source Energy Allowance	Determined for building by applying a mix of residential and non-residentia allowances to certified spaces.	V		✓				
	Determined for building by applying a mix of residential and non-residentia allowances to certified spaces.		abla		abla			
Space Conditioning Targets	Apply to the whole / certified portion of the building.	abla		N				
	Apply to partial building and must be met in each energy model.							







BUILDING INFORMATION

Category: Residential

Status: Under construction

Building type: New construction

Year of construction: 2024

Units:

Number of occupants: 12 (Design)

Occupant density: 351.6 ft²/Person



Boundary conditions

Climate: OLYMPIA AIRPORT WA

Internal heat gains: **1** Btu/hr ft²

Interior temperature: 68 °F

Overheat temperature: 77 °F

Building geometry

Enclosed volume: 53,618.9 ft³

Net-volume: 40,750.4 ft³

Total area envelope: 10,415.3 ft²

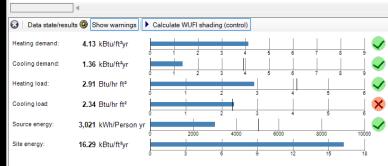
Area/Volume Ratio: 0.2 1/ft

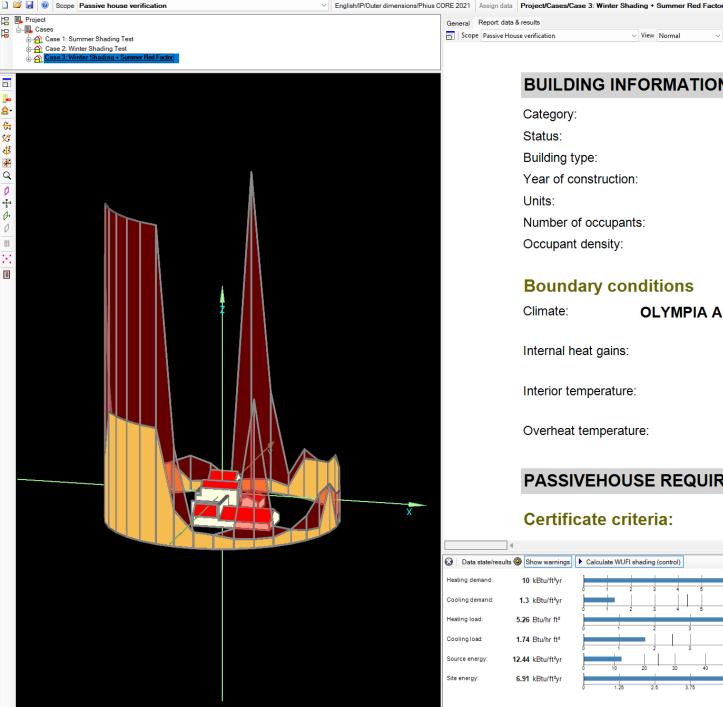
Floor area: **4,219.3** ft²

Envelope area/iCFA: 2.469

PASSIVEHOUSE REQUIREMENTS

Certificate criteria: Phius CORE 2021





BUILDING INFORMATION

Scope Passive House verification

Category: Non-residential

Status: In planning

View Normal

Building type: **New construction**

Year of construction: 2024

Units:

Number of occupants: 3 (Design)

Occupant density: 824.9 ft²/Person

Boundary conditions

Climate: **OLYMPIA AIRPORT WA**

Internal heat gains: **1.6** Btu/hr ft²

Interior temperature: **68** °F

Overheat temperature: **77** °F

Building geometry

Enclosed volume: 45,582 ft³

Net-volume: 34,642.3 ft3

Total area envelope: 6,552 ft²

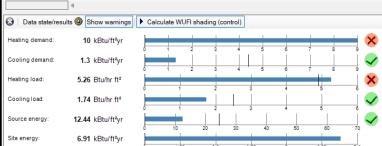
Area/Volume Ratio: **0.1** 1/ft

Floor area: 2,474.8 ft²

Envelope area/iCFA: 2.647

PASSIVEHOUSE REQUIREMENTS

Certificate criteria: Phius CORE 2021



Combined Targets						
Specific Total Heating Demand	9.2	kBtu/sf.yr				
Specific Total Cooling Demand	4.1	kBtu/sf.yr				
Specific Total Heating Load	4.4	Btu/hr.sf				
Specific Total Cooling Load	2.4	Btu/hr.sf				
Specific Total Source Energy Limit	39.9	kBtu/sf.yr				

Combined Results						
Specific Total Heating Demand	6.4	kBtu/sf.yr	V			
Specific Total Cooling Demand	1.3	kBtu/sf.yr	V			
Specific Total Heating Load	3.8	Btu/hr.sf	V			
Specific Total Cooling Load	2.1	Btu/hr.sf	~			
Specific Total Source Energy	20.1	kBtu/sf.yr	Q			



Pg. 67 Guidebook (6.3.1.2) - Non-permanent occupants in multifamily bldgs

- . First Floor Occupancy # = 51 Occupants on first floor according to planset
 - o Subtract: Hall (102), Hall (108), Mech (106), Tenant Space 3, Tenant Space 3
 - o 51-2-1-1-13 = 34 Occupants
- . Workers Calc # of employees equated to full time occupants
 - o 3 workers @ 8 hrs/day = 1 full time occupant
 - o 34 workers @ 8 hrs/day = 11 full time occupants
 - o Per calculator provided by PHIUS = 8 full time occupants
- . Visitors Calc appropriate energy use of visitors estimated and documented
- o 4 visitors a day using _____ energy
- . Occupancy per SF by room utilizing number from Pg. G004 of the reference plan
 - o Conference 101 15 sf/person
 - o Workstations 1 103 131 sf/person

 - o Kitchenette 105 81 sf/person

 - o Work Area 107 105 sf/person
 - o Small Conference 109 13 sf/person

 - o Workstations 2 111 104 sf/person
 - o Private office 112 104 sf/person
 - o Office 121 99 sf/person
- Green represents rooms that don't have most of the occupancy throughout the

Pg. 67 Guidebook (6.3.1.3) - Number of Units and Floors

- Residential 1 for every dwelling unit
- Non-Residential 1

Pg. 81 Guidebook (6.6.2) - Utilization Pattern (Non-Residential)

Begin & End Utilization (hr) - 0900 - 1700, AKA 9AM-5PM

Annual Utilization per yr -

6 holidays + 105 weekend days / year = 111 days off per year

365 - 111 = 254 Annual Utilization per year

Illumination Level - Referenced values on Pg.200 of Guidebook

- o Conference 101 500 lux
- o Workstations 1 103 500 lux
- o Waiting 104 300 lux
- o Kitchenette 105 500 lux
- o Mech 106 100 lux
- o Work Area 107 500 lux
- o Small Conference 109 500 lux
- o Toilet 110 200 lux
- o Workstations 2 111 500 lux
- o Private office 112 500 lux

Setpoint Temp - Assuming 68 degrees Farenheight for heating reduction temperature

- o Office 121 500 lux
- o Toilet 122 200 lux

Setpoint Temp - Room, assuming 71 degrees Farenheight

- · Relative Absence
 - o Conference 101 0.5
 - o Workstations 1 103 0.3
 - o Waiting 104 0.5
 - o Kitchenette 105 0.8
 - o Mech 106 0.98
 - o Work Area 107 0.3
 - o Small Conference 109 0.5
 - o Toilet 110 0.9
 - o Workstations 2 111 0.3

- o Private office 112 0.3 o Office 121 - 0.3
- · Part Use

cos

Pg. 82 Guideb Occupant qu occupancy. DHW distribu

shown under

- Average

Pg. 82/83 Gui - PC. Mo

o Appendix D - Table 8A, 8B & 8D

- 3.4 GHz processor, 32 GB RAM, n=1, NA, 72
- 2.9 GHz processor, 32 GB RAM, n=3, NA, 58
- 686 mm LED flat screen, n=2, 40, 26
- Monitor (TV)
 - o Appendix D Table 8D
 - 1016 mm 8W, 240W Nameplate Power
- Copier, Printer
 - o Appendix D Table 9
 - Multifunction printer (copy, print, scan) Large, Multilaser, Office type, 40 pages per minute, 1500 W, Peak heat Gain 433W
- Projector, resolution 1024 x 768
 - o Appendix D Table 10
 - 340, 308
 - 1000 hrs/yr

Pg. 83/84 Guidebook (6.6.2.3) - Kitchen Equipment

- Coffee Grinder
 - o Appendix D Table 10
 - 2 uses per day
 - = 100W
 - (100W per pot * 2 pots per day = 200W/day) / 1000 = 1.95 kW/day / 24hr/day = 0.0083 kWh/day * 254 days/yr = 2.12 kWh/yr (see "Email Justification" for why used this number)
- Coffee Maker
 - o Appendix D Table 10
 - · 6 hours of use a day
 - Up to 12 cups, 950, 780
 - = 100W

Pg. 84 Guidebook (6.6.2.4) - (Electric) Lighting

Pendant Fixtures

* 11' Lintel Height

16' Window Width

Guidebook)

17.375 ft wide, 12.8125 ft depth, 11.8333333 ft height

0.05*4 = 0.2W/SF)] = 1.1375 W/SF

Operating Hours: 3 hrs/day x 254 days/yr = 762 hrs/yr (Pg. 197

(1 L36 + 4 L1) = [(150W/160SF = 0.9375 W/SF) + (8W/160SF =

223SF/2474.8SF = 0.09

o Conference 101

■ 90°

o Workstations 1 103

Triple pane

(975W per pot * 2 pots per day = 1950W/day) / 1000 = 0.219

days/yr = 20.63

this number)

000 = 5.6 kW/day

1000 = 1.2

mber)

yr = 12.7 kWh/yr

. 19' Window Width

* 8.21875 ft wide, 12.85416667 ft depth, 11 ft height

- Operating Hours: 3 hrs/day (Pg. 197 Guidebook)

o Kitchenette 105

- Pendant Fixtures

- . 19' Window Width
- 9.45833333 ft wide, 5.82291667 ft depth, 11 ft height
- . Operating Hours: 9 hrs/day (Pg. 197 Guidebook)
- (L7 * 2) + (L4) = (5.8W + 120W) = 125.8W/80SF = 1.57W/SF

- 49SF/2474.8SF = 0.02

o Work Area 107

- Suspended Linear Fixture
- 105SF/2474,8SF = 0.04
- N/A

- 18 W/F * 8 feet = 144W /392SF = 0.37W/Sf

o Small Conference 109

- Pendant Fixture
- 65SF/2474.8SF = 0.03
- . 5' Window Width
- Operating Hours: 3 hrs/day (Pg. 197 Guidebook)
- 60W/65SF = 0.92 W/SF

- * 11' Lintel Height
- . 7' Window Width
- * 17.375 ft wide, 38.85416667 ft depth, 11.8333333 ft height
- Guidebook)
- 1.47W/SF
- . 4.96 feet of window on façade, other half is part of the Waiting

Waiting 104

- 73SF/2474.8SF = 0.03

- 4W * 2 lamps = 8W/73SF = 0.1095 = 0.11W/SF
- - 80SF/2474.8SF = 0.03

o Mech 106

- 8.22916667 ft wide, 5.82291667 ft depth, 11.8333333 ft height
- Operating Hours: 0 hrs/day (Pg. 197 Guidebook)
- LPD: 1.5 W/SF

- . 12.85416667 ft depth, 8.21875 ft wide, 11 ft height
- Operating Hours: 9 hrs/day (Pg. 197 Guidebook)

- Triple pane
- . 11' Lintel Height

- Suspended Linear Fixtures 392SF/2474.8SF = 0.16

- Triple pane

- Operating Hours: 9 hrs/day x 254 days/yr = 2286 (Pg. 197
- * 18 W/F * 8 feet = 144W fixtures * 4 fixtures = 576W/392SF =

- Wall Wash Fixture
- 90°
- Triple pane
- * 11' Lintel Height

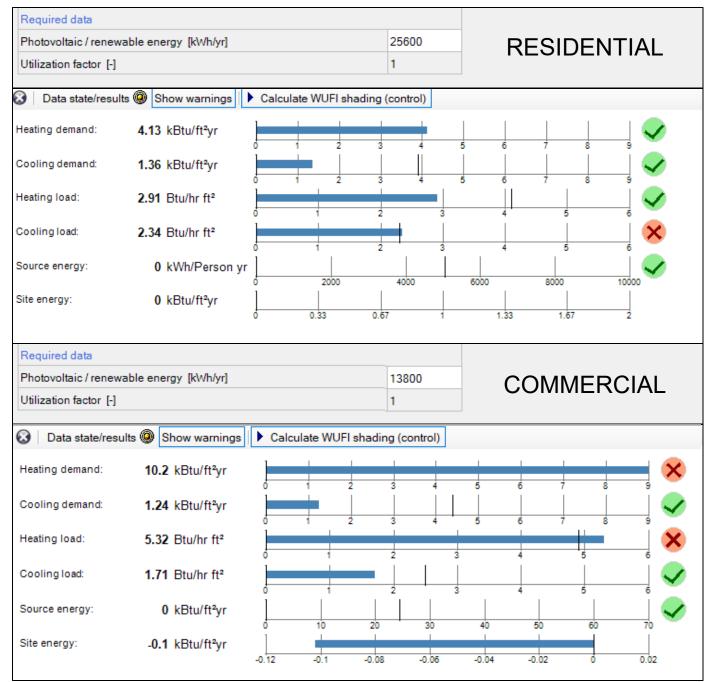
- N/A
- * 11' Lintel Height

- · Semi-Flush Ceiling Mounted Fixture
- N/A
- - 180°

 - . 12.8516667 ft wide, 7 ft depth, 11 ft height



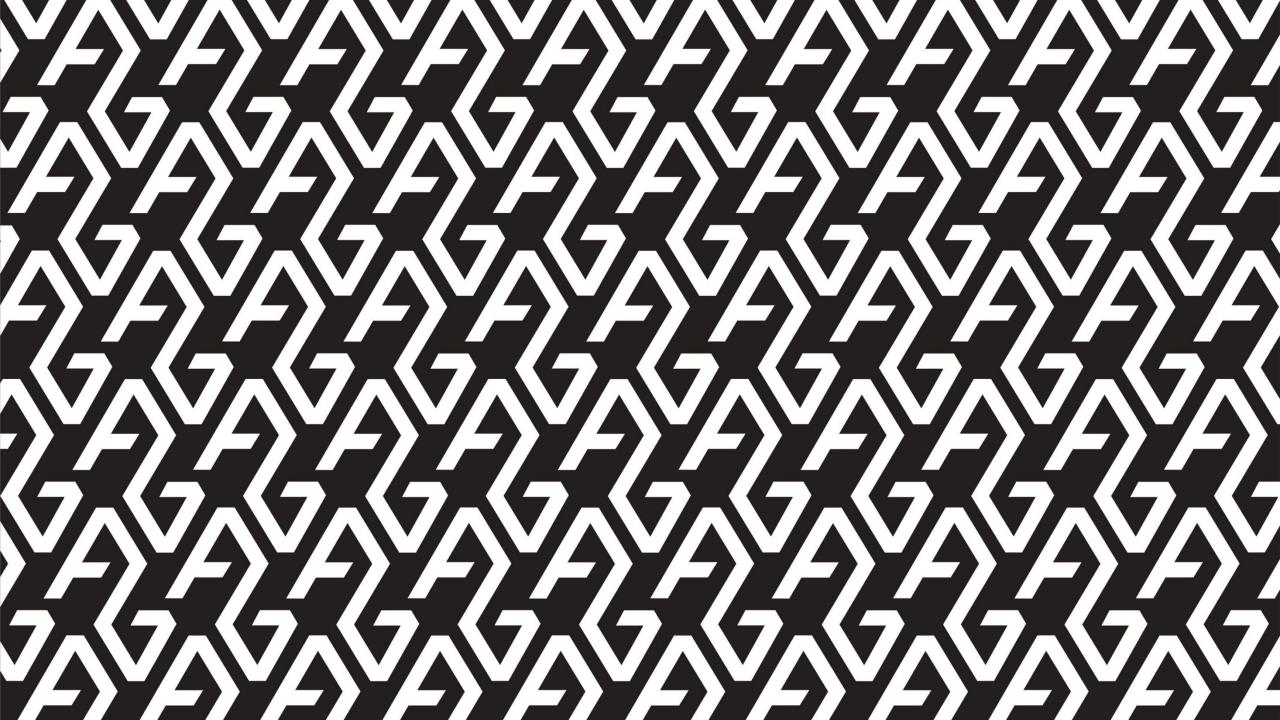




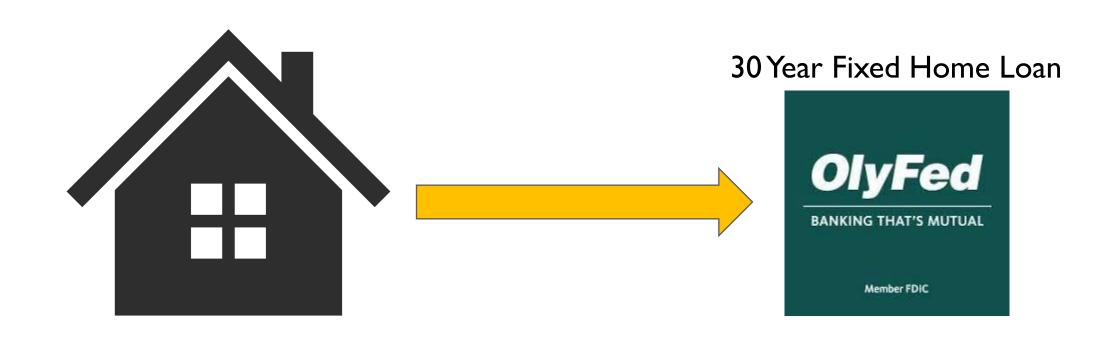


35kW Needed 10kW Installing





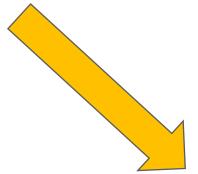
The Proforma And Financing.

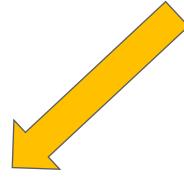


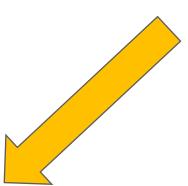
Banking Strategy- If you are privileged to have bought a home before you understand a 30 year fixed mortgage!





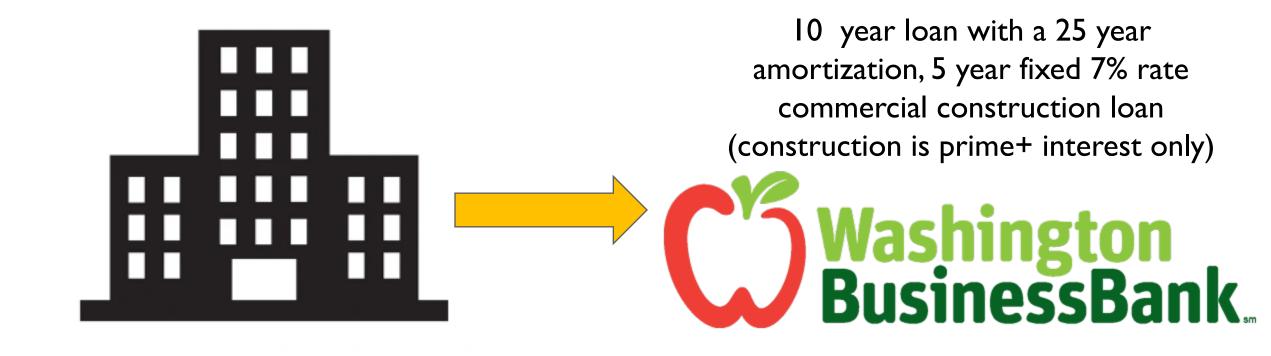


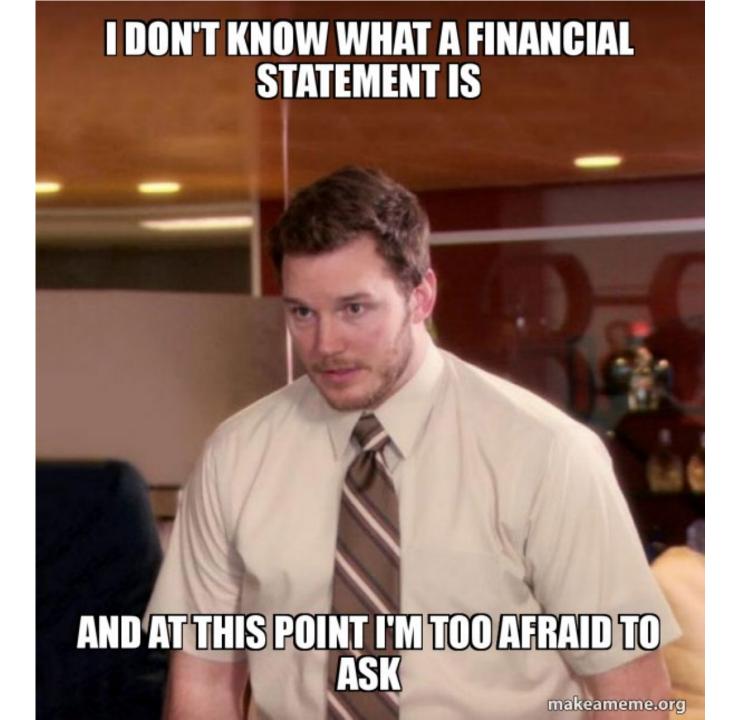












	FEBRUARY	MARCH	APRIL	MAY
Enter the date of the first Monday of each month>				
Neighbor Maintenance Agreement				
Civil Permit Submital			Permitting	
Building Permit Submital			Permitting	
Phius design-certification submital				
Go out to Bid				
Windows ordered				
Order Appraisel				
Loan Process				
SITE WORK				



THIRD FLOOR



Square Footage: Office Square Footage New Office 3,123 sf Existing Office 980 sf Office Hut 155 sf Courtyard Rooftop Deck 463 sf **Total Owner** Occupied Space 5,221 sf Apartment Square Footage Apartment A 760 sf Apartment B 797 sf Apartment C 758 sf Apartment D 727 st Apartment E 945 sf 971 sf Apartment F

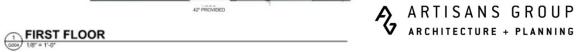
Total Apartment 4,958 sf Owner Occupied 51% Tenant Occupied 49% Rent Calculation:

Leasable Office Space
3,730 at x \$3 at = \$11,190

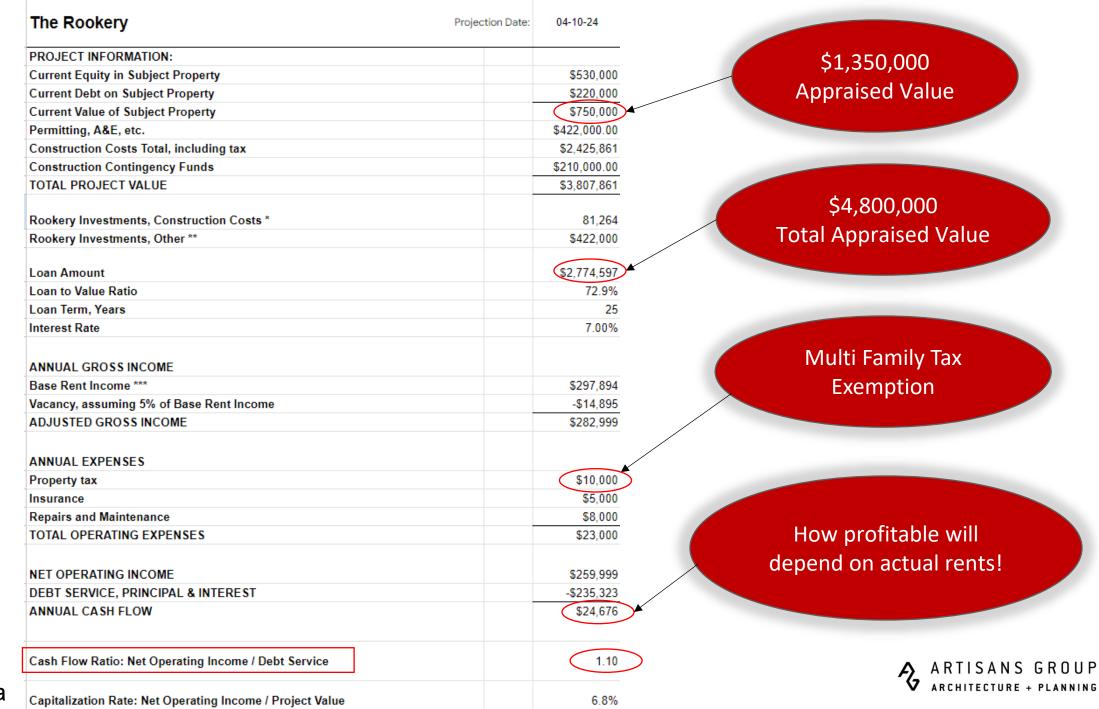
Leasable Arpartments
Apartment A 780 at x \$2.75 = \$2,090
Apartment B 797 at x \$2.75 = \$2,192
Apartment C 727 at x \$2.75 = \$2,599
Apartment D 727 at x \$2.75 = \$2,599
Apartment E 945 at x \$2.75 = \$1,599
Apartment E 945 at x \$2.75 = \$2,599
Apartment F 971 at x \$2.75 = \$2,599
Apartment F 971 at x \$2.75 = \$2,599
Apartment F 971 at x \$2.75 = \$2,599
Total Apartment Rents
4,958 at x \$2.75 at = \$13,635

Total Rents for the building:
\$24,825





*	Rookery Investments, Other **									
	Civil Engineering		\$85,000.00	paid						
	Survey and Staking, Easment		\$7,100.00	paid						
	Soil Testing	\$3,995.00	paid							
	Landscape Architect									
	Structural Engineering									
	Interior Design Services									
	Architectural Services									
	Consutling									
	Easement legal									
	BEE Consulting									
	Appraisal		\$4,700.00	paid						
	PHIUS		\$4,550.00	paid						
	Permitting Costs		\$128,048.34	paid						
		TOTAL	\$524,168.34							



The Proforma

The Rookery	Projection Date	9.15.2025
PROJECT INFORMATION:		
Current Equity in Subject property		\$530,000
Current debt on subject property		\$216,009
Current value of subject property		\$746,009
Permitting, A&E, Etc.		\$396,120
Construction Costs Total, Including Tax		\$2,422,255
Construction Contingency Funds		\$214,000
TOTAL PROJECT VALUE (plus overidges)		\$4,036,384
Rookery Investments, Construction Costs *		\$110,000
Rookery Investments, Other (overridges total \$258K)		\$654,120
Loan Amount		\$2,771,000
Loan to Value Ratio		68.7%
Loan Term, Years		25
Interest Rate		6.32%
ANNUAL GROSS INCOME Base Rent Income ***		\$20E 4E6
		\$285,456
Vacancy, assuming 5% of Base Rent Income ADJUSTED GROSS INCOME		\$14,273 \$299,729
ANNUAL EXPENSES		Q 200,120
Property Tax		\$10,000
Insurance		\$5,000
Repairs & Maintenance & Utilities		\$8,500
TOTAL OPERATING EXPENSES		\$23,500
NET OPERATING INCOME		\$276,229
DEBT SERVICE, PRINCIPAL & INTEREST		\$220,716
ANNUAL CASH FLOW		\$55,513
Cash Flow Ratio: Net Operating Income / Debt Service		1.25
Capitilization Rate: Net Operating Income / Project Value		6.8%



Builder's Cost Breakdown

DATE:	3.0	08.24					Washington BusinessBank
BORROWE	R: The Rook	cery Olympia	, LLC				Core Values-
CONTRAC	TOR:						-
PROPERTY ADDRESS:				6504 C	apitol Blv	d SE, Tur	nwater, WA 98501

	ITEM	СО	ST BREAKDOWN	REMARKS
1	Plans/Arch/Surveys & Engineering			
2	Road bore	\$	11,660.00	
3	Temp. Power/Excavation	\$	187,904.00	
o	Footings & Foundation/Concrete	\$	65,725.00	
5	Framing Material/Insulation	\$	640,000.00	
6	gypcrete float	\$	20,000.00	
7	Interior Framing Labor and Materials	\$	40,000.00	
8	Roofing	\$	57,200.00	
9	Windows/Sliders/	\$	17,000.00	
10	Plumbing (rough)	\$	139,745.00	
11	Electrical (rough)	\$	209,360.00	
12	Sprinkler sys.	\$	21,450.00	
13	Masonry Veneer & Chimney	\$	-	
14	Prefab Fireplace	\$	-	
15	WINDOW SET LABOR	\$	25,000.00	
16	Siding & Soffits/MATERIAL & LABOR	\$	192,396.00	
17	Heating/Air Conditioning	\$	102,007.41	
18	Rigid Insulation (under slab, roof)/ Blown-in (1st	\$	31,200.00	
19	Drywall/Tape/Texture	\$	50,000.00	
20	Sewer Hook-up	\$	-	
21	Water Hook-up	\$	-	
22	STEEL / STAIRS, POSTS	\$	45,000.00	
23	Downspouts & Gutters	\$	5,000.00	
24	Exterior Painting	\$	20,000.00	
25	Interior Painting	\$	20,000.00	
26	Wallpaper/Paneling/Trim Stairs	\$	-	
27	Millwork	\$	21,458.79	
28	Cabinets/Hardware	\$	64,000.00	
29	Countertops - Quartz	\$	10,890.00	
30	Plumbing Fixtures		-	
31	Linoleum, Polished Concrete (1st Floor)	\$	67,262.11	
32	Tile	\$	13,200.00	
33	Exterior Doors	\$	7,866.00	
34	Electrical Fixtures	\$	-	

				4			
35	door hardwasre	\$	5,584.10				
36	Hardwood Floors	\$	-				
37	Interior Doors	\$	15,240.00				
38	Finish Labor	\$	-				
39	Finish Hardware	\$	-				
40	Appliances	\$	44,000.00				
41	Solar	\$	-				
42	Patios/ Paver	\$	19,250.00				
43	Cleanup, security fencing	\$	6,000.00				
44	Landscaping/fencing	\$	40,000.00				
45	Flashing and Sheetmetal	\$	-				
46	Demolition	\$	-				
47	Other:	\$	-				
48	Other:	\$	-				
49	Other:	\$	-				
50	Contingency Fund						
51	Subtotal no contingency						
52	SUB-TOTAL HARDCOSTS	ŝ	2,215,398.41				
53	Contingency Fund	\$	210,000.00				
	BUILDER PROFIT & OVERHEAD	\$	-				
55	SALES TAX	\$	210,462.85				
56	SUB-TOTAL CONSTRUCTION COSTS	\$	2,635,861.26	Signed			
57							
58	LAND VALUE		720,000.00		Borrower's		Date
1			2,425,861.26				
60			-		Contractor's		Date
61			-				
62	TOTAL		5,781,722.52	Washington B	usiness Bank is	an "Equal Housi	ng Lender"



Example Projects:

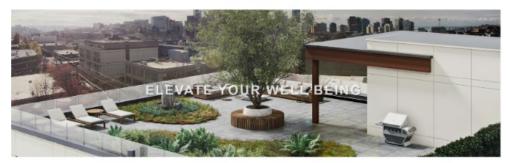
Solis, Seattle Washington

www.livesolis.com

AUGUSTATION FLOOR PLANT PARTIES HERE DALLERS



ST-CHRONICOD COSTSCT US



SEATTLE'S NEWEST PASSIVE HOUSE PROJECT—
BE A PART OF PRESERVING YOUR HEALTH & OUR FUTURE

JNCOMPROMISING STANDARDS
FOR THE THINGS YOU LOVE

The largest one bedroom unit is approximately 100-300 sf smaller than our units. Rents for \$2,200/Mo plus utilities

LIVE HEALTHY, LIVE SUSTAINABLY, LIVE SOLIS

CHOOSE YOUR PERFECT HOME WITH SPACES RANGING FROM STUDIO, 4-BECROOM & 2-BEDROOM HOMES.

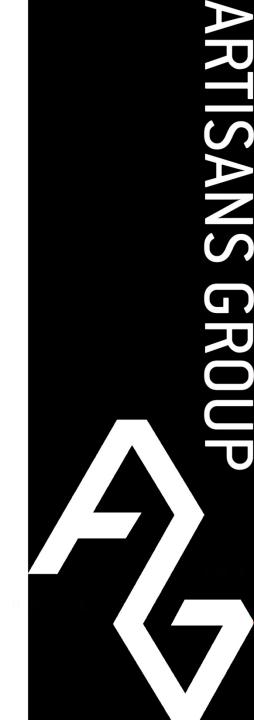
TAKE THE VIRTUAL TOUR BELOW.

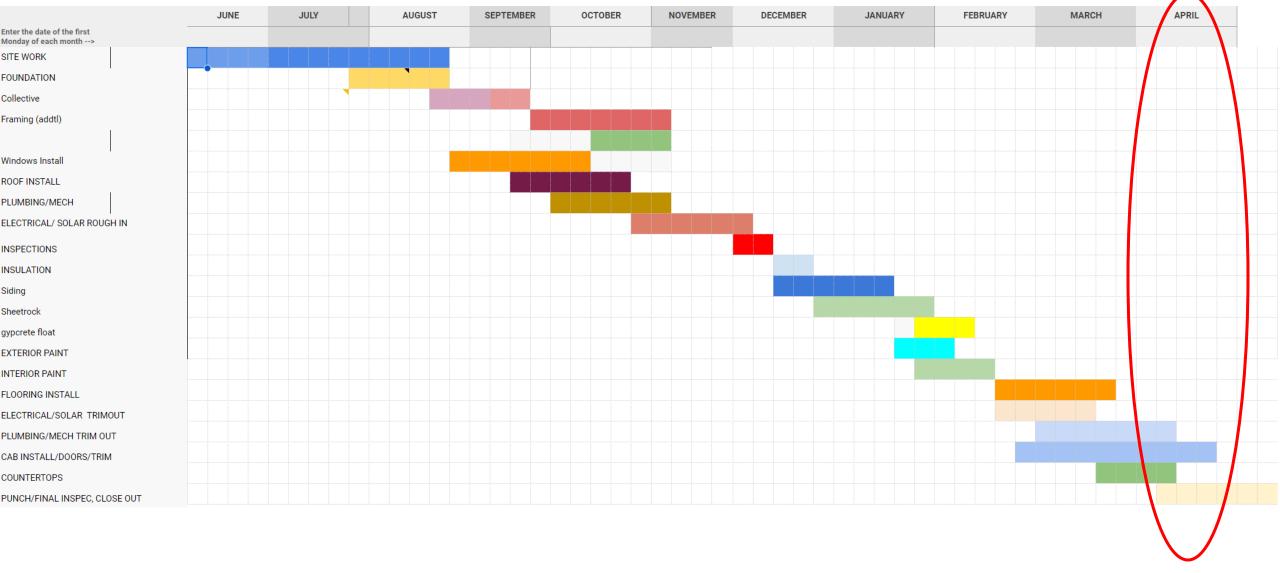


Unique, Upgraded Features will include:

- -Triple Paned, thermally broken tilt turn aluminum windows from Europe
- -Prefabricated, super insulated walls, floors and roofs
- -Advanced climate control and cooling
- -Purified air system. HRV
- -Quiet interiors due to airtight construction
- -Industrial height ceilings
- -Extreme temperature comfort
- -European and local custom FSC Cabinets
- -Luxury appliances
- -Solid surface countertops
- -Designer wall paper and lighting
- -Tile showers
- -Solid designer marmoleum floors & polished concrete floors
- -Large common and private penthouse rooftop decks and planted courtyard

The Construction.











Baby's first tree felling..







ARTISANS GROUP
ARCHITECTURE + PLANNING





Construction









Rane Wardwell
CFO/ Co-Owner/ Head of Production





High performance building + Off-site construction

Jan Pratschke
CEO/ Co-Owner/ Head of Design



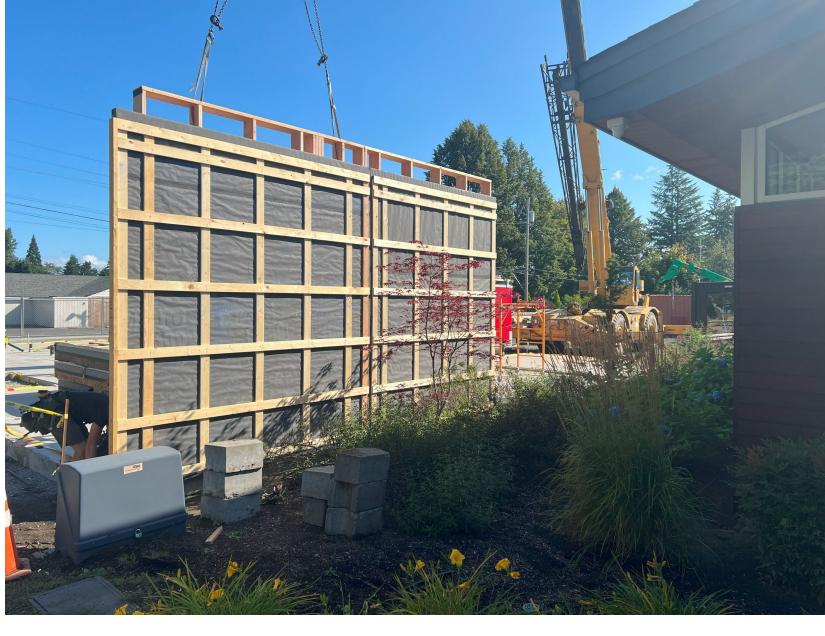
Collective Carpentry is an Canadian 8 person PH prefab company, offering full services and Installation, located in Southeast British Columbia.

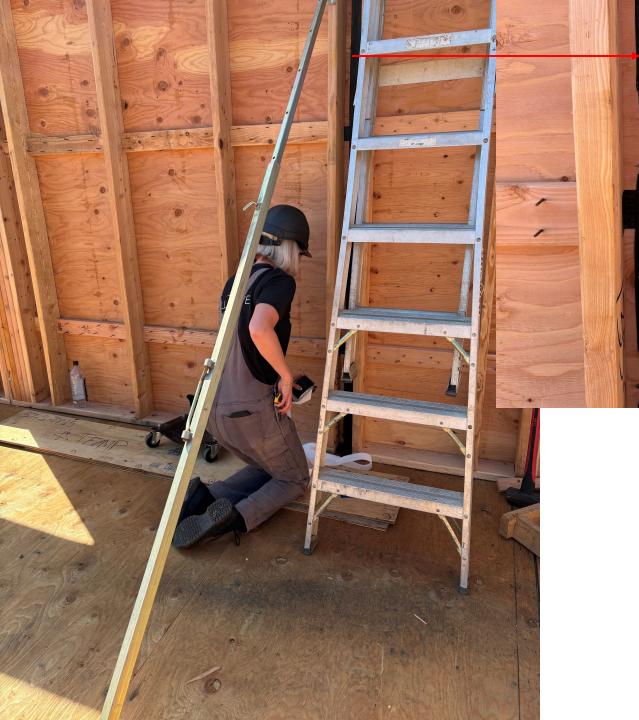


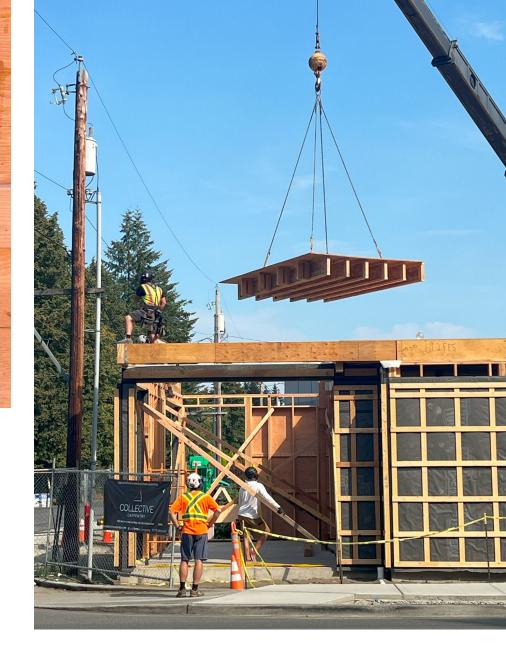


































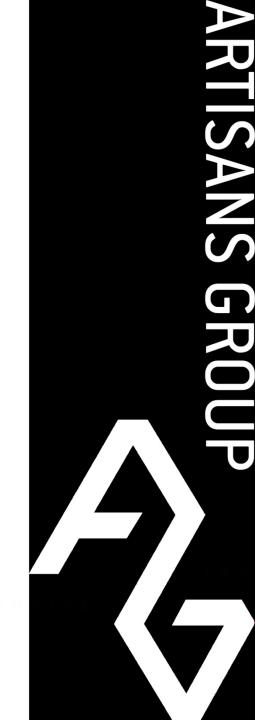


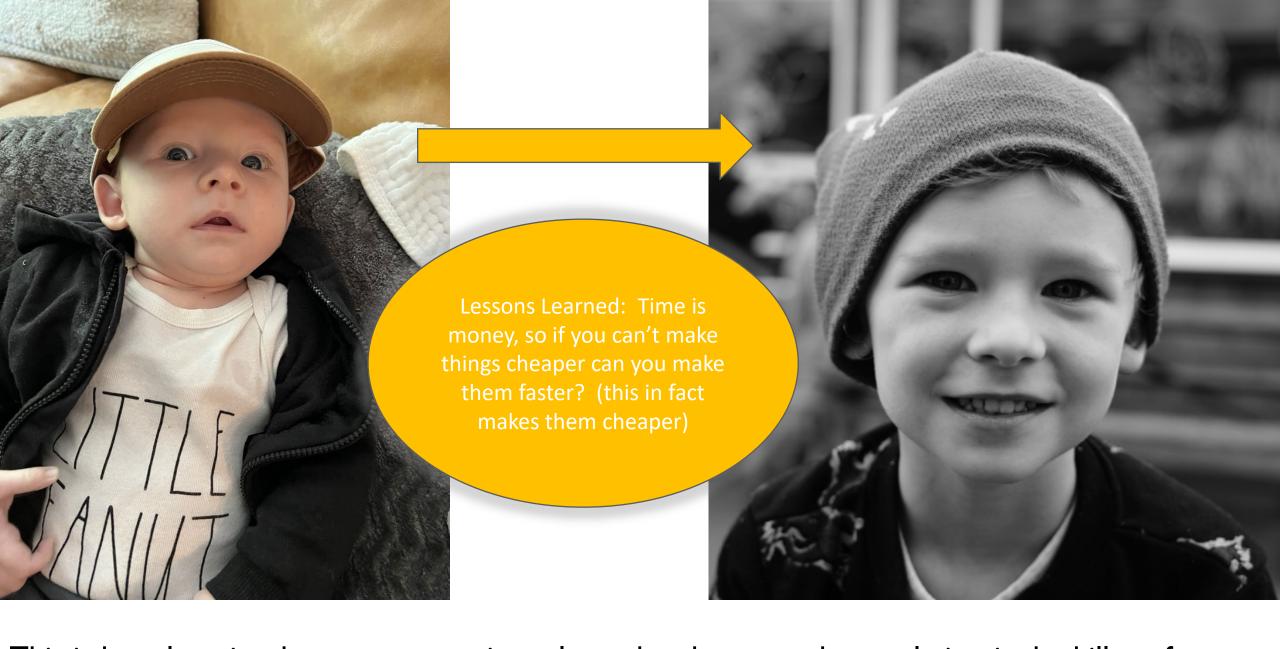






Lessons Learned.





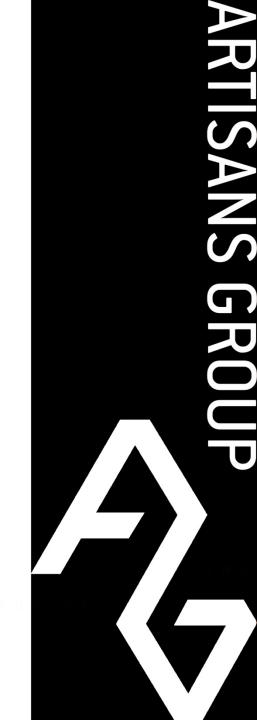
This is how long it takes to get a project planned and executed...escalation is the killer of dreams.

Lessons Learned:

- Labor & Material Cost escalating faster than the process can proceed, bids are only good 30-90 days.
- Operating our business on site was disruptive, hard on moral for employees and us. It was a like second full time jobs for Roussa and I, so we operated our firm with limited bandwidth, which affected us and employees.
- We used up our 10% contingency and spent another 10% we hadn't financed. 20% contingency in the future.
- We did not, because we could not devote the time and care to the design and drawings we would have for a client, we paid for those oversights and we had a lot to figure out, that combined with the mixed use code and Phius requirements were murky and tricky.
- Self performing the work while acting as general contractor created critical
 path challenges and scopes of work all needing to be performed at once, we
 suffered schedule slip and cost overruns. Time would have been money.
- Personal cost to families and quality of life in general to pull it off, some dads almost died, bonding, but also potential death.



Finished Project.





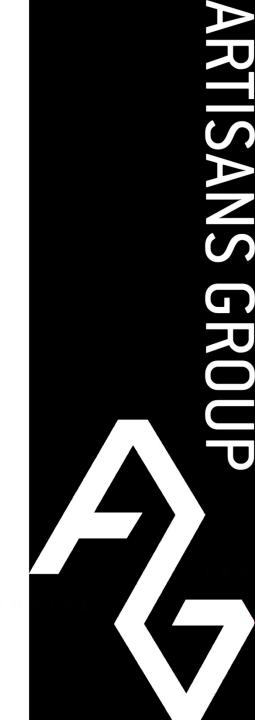








The Good Of It All. Probably.



What we hope to get out of this building:

- A great space to work, and cashflow improved by apartment rentals.
- Longevity and a low maintenance asset, equity over time vs. immediate cashflow, at the intersection of the rising cost of money, materials and labor what is the holding potential of a building that lasts? The new front of asset management will definitely include the cost of repairs and operation, ever becoming out of reach...
- Case study to show how you can use passive house strategies and pre-fab in multifamily and larger scale development.
- Allow clients to experience a passive house directly, maybe even rent a space to try it.
- Continue to prove our firm's ability to do large scale projects, with a deep understanding of the pressures of development.
- Apply our hard won and at times expensive lessons to higher profit future developments that are still in keeping with our firm's passion and focus.



