

ADU Homeowner Workshop

Session #3: Construction & Property Management

December 2, 2024



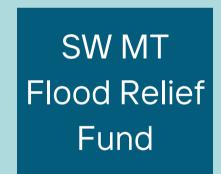


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to our financial supporters!









Generous Community Members









Agenda

5:40 p.m. Goals for Session 3

5:45 p.m. Design into construction

6:00 p.m. Q&A

6:20 p.m. 10-minute break

6:30 p.m. Property management

6:40 p.m. Q&A

7:00 p.m. Discussion: How PCHC can help moving forward

7:25 p.m. Survey and adjorn

Session #3 Goals

- Build a general understanding of how the design process influences the construction process.
- Learn principles and key considerations related to property management.

 Tell the Coalition how we can support you moving forward.

ADU Design to Construction

Special thanks to Lucas Schad, AIA and founder of LTS Architecture, and Dave Karon, GC and founder of Karon Custom Built, for the content in this section.

Process: Design to Construction



THE PROCESS

Planning / Programming:

The architect will work with the client to determine the function of the building and the rough spacial sizes. For instance, in a residential structure, the discussion would focus on the number of bedrooms, bathrooms, etc., and specific use of the gathering spaces. After this phase is complete, everyone involved will have a good idea of the function of the building and there should be a ball park idea of the budget for the structure. The architect will work on this phase of the project on a time card basis. It is very helpful to have discussed the items on the LTS – Programming Guide. Schematic Design will start only after a written program has been completed.

Lucas T. Schad, AIA Architect MT License #7407

Schematic Design:

The architect will take the Program from the previous phase and create a series of sketches of floor plans, elevations and site plans that meet all of the requirements listed. If they are approved, a Unit Price Cost Estimate will be completed. If a builder is involved at this stage the builder may assist with the Unit Price cost estimate. If the sketches are not approved, then they will be modified until an acceptable schematic design is reached. (For instance a Unit Price for the cost of electrically wiring a building would be the total square footage the building multiplied by the price per square foot to electrically wire a building.) At the end of this phase, both the client and the architect are comfortable with the design and a fairly close cost estimate has been created. The architect and client will enter into an AIA contract at this point. All work previous will be credited to the contract price.

Design Development:

Working drawings are formalized using a CAD program. A 3D model of the exterior of the building is created in the computer. Electrical plans, interior elevations, material selection and determining finishes are just a few topics that are discussed during this phase. Communication between the Client and the Architect during this phase is paramount. The architect will create yet another Cost Estimate, working with the builder if possible, as this phase progresses and/or verify that the prior cost estimate is still accurate.

Construction Documents:

The architect creates a detailed set of instructions that describes the finished product. The Structural, Mechanical and Electrical Engineering work is being completed. Hardware, Lighting, Door, Window and Finish schedules are being created. The Design Development and Construction Documents phases tend to blur together in most cases.

The Architect is available during construction for Construction/Contract Administration on an as needed basis.

















Planning & Programming

Schematic Design

Design Development

Construction Documents

Construction

1

Planning & Programming

The architect works with their client to determine the building's function and rough sizes.

- # of bedrooms
- # of bathrooms
- use/s of gathering spaces

LTS Programming Guide provides a framework for this process.

Builds shared understanding of:

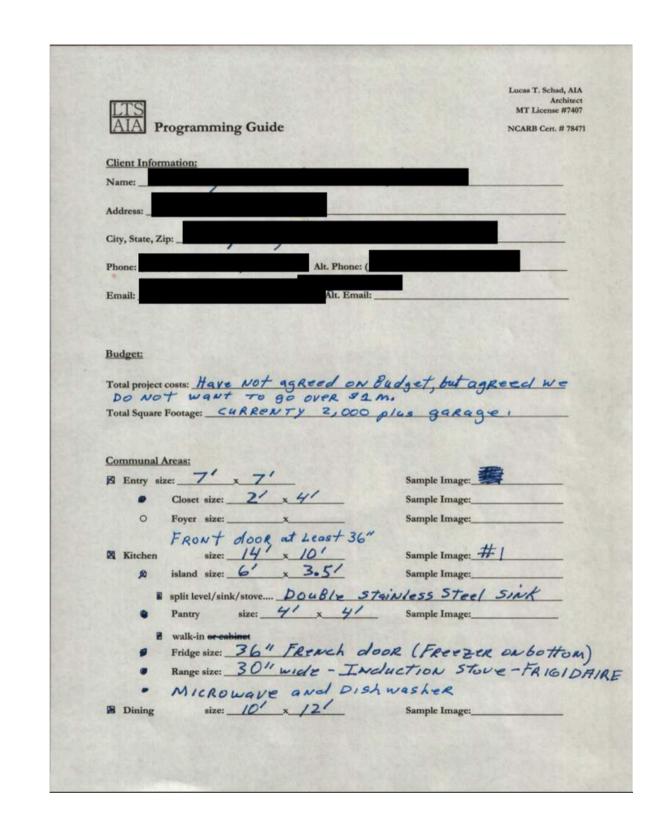
- building's function
- ballpark budget

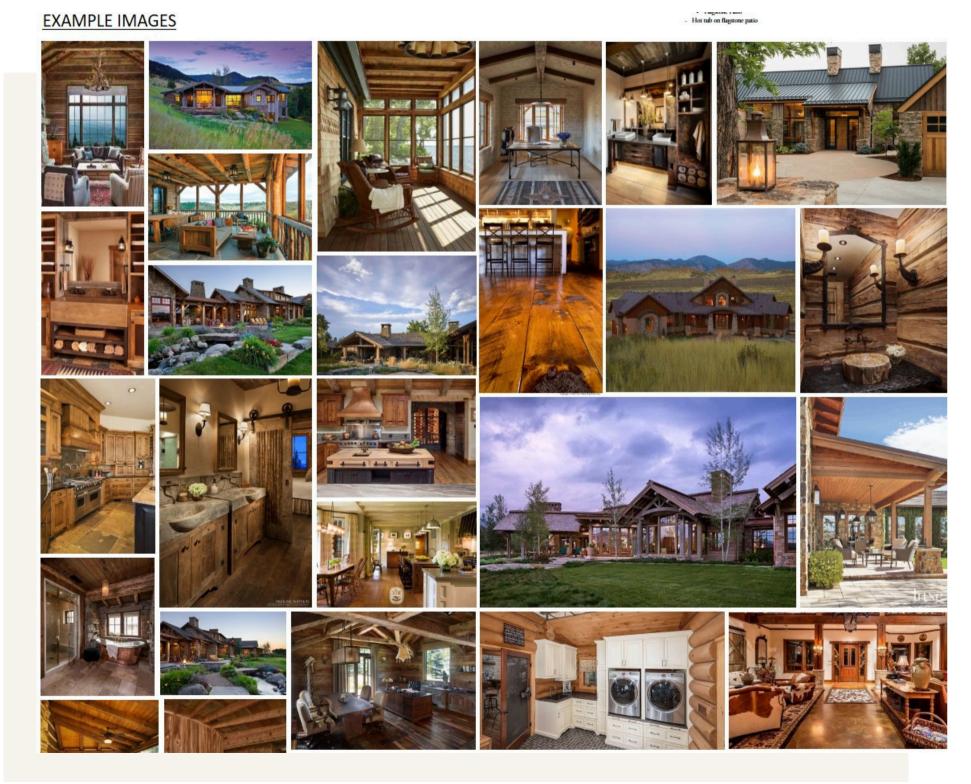
Necessary precursor to the subsequent Schematic Design phase.

	Lucas T. Schad, AIA		
TTO	Lucas I. Schad, AIA Architect MT License #7407	Programming Guide	
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1 Planning & Programming





Example client mood board that is part of the planning & programming stage

2 Schematic

Design

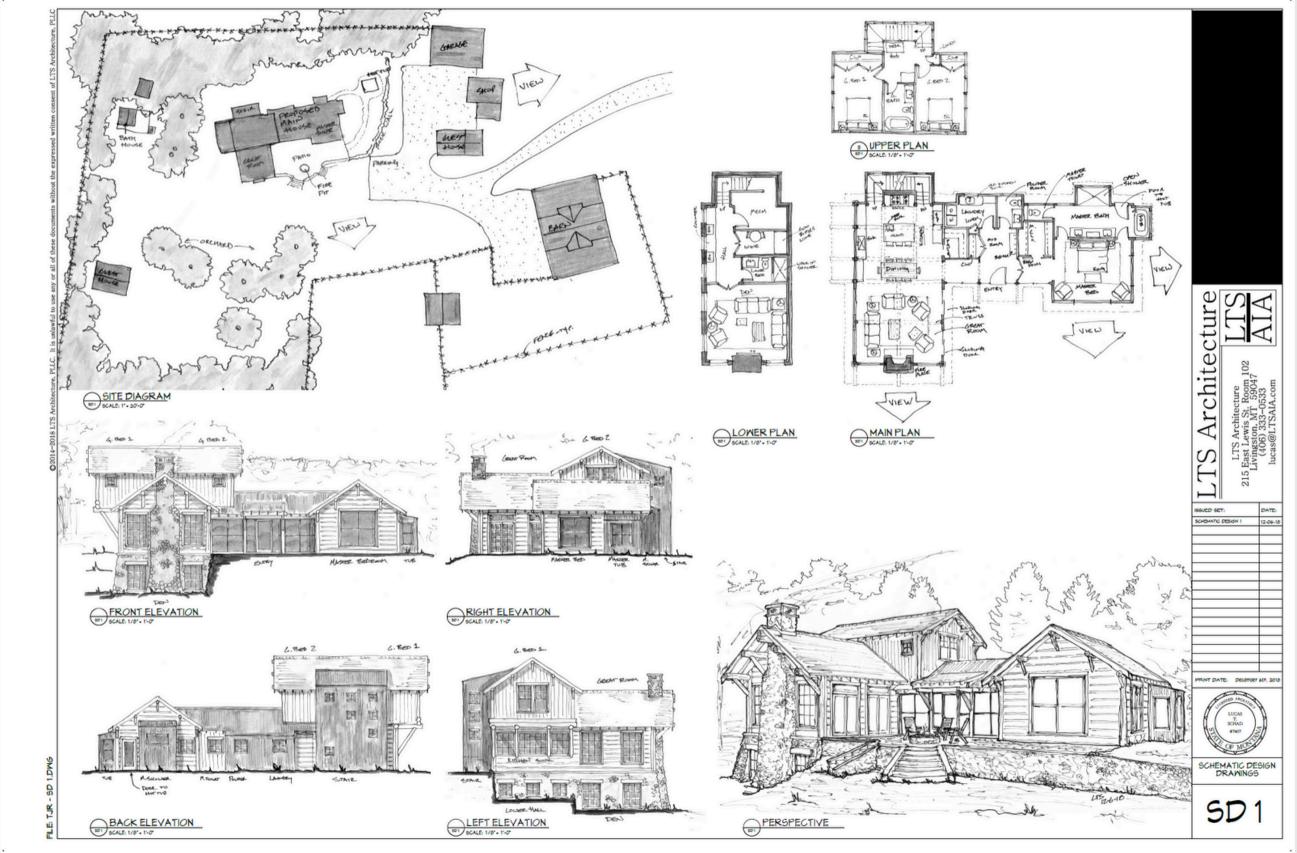
The architect creates a series of sketches utilizing the Program from the planning & programming phase.

- floor plans
- elevations
- site plans

If the client approves these sketches, a Unit Price Cost Estimate will be completed.

- total sq. footage of building multiplied by price-per-square foot of work (e.g., electrical)
- builder involved at this stage

The architect and the client sign AIA contract before the next phase, design development.



2) Schematic Design A

The actual build.

A photograph of the home depicted in the previous page's schematic design drawings.



² Schematic Design

The evolution of a schematic design:

- 1. A sketch from the Schematic Design phase
- 2. Hardline drawing from the Schematic Design phase
- 3. The completed structure



² Schematic Design

SCHEMATIC DESIGN COST ESTIMATE with SD-4

LTS ARCHITECTURE, PLLC

SCHEMATIC DESIGN COST ESTIMATE with SD-4

DECKS	372
MAIN LEVEL	1,734
GARAGE	582
MAIN LEVEL TOTAL	2,316
UPPER LEVEL	928
FINISHED AREA	2,662
TOTAL AREA	3,616
PROJECT DURATION (MO)	12

DIV 1	GENERAL CENDITIONS							DESCRIPTION
Α	ON SITE SUPERINTENDANT	1	Isum	@	\$25,000.00	ea	\$25,000.00	BILLED HOURLY
В	CONTRACTOR MILEAGE / TRAVEL TIME	1	Isum	@	\$25,000.00	ea	\$25,000.00	BILLED AS USED
С	PORTABLE TOILET	12	mos.	@	\$200.00	per month	\$2,400.00	
D	GRADALLS / BOBCAT	12	mos.	@	\$1,000.00	per month	\$12,000.00	BILLED DAILY AS USED
E	RENTAL EQUIPMENT	1	Isum	@	\$2,500.00	ea	\$2,500.00	USED AS NEEDED - TEMP HEATER, MAUNAL LIFT, SCAFFOLDING, ETC
F	DUMPSTER/TRASH REMOVAL	1	Isum	@	\$12,000.00	ea	\$12,000.00	
G	GENERAL CLEAN UP	3,616	sf	@	\$0.75	per SF	\$2,712.00	BILLED HOURLY
Н	FUEL ALLOWANCE	12	Isum	@	\$300.00	per month	\$3,600.00	
I	SNOW REMOVAL ALLOWANCE	1	Isum	@	\$5,000.00	ea	\$5,000.00	BILLED HOURLY
J	FINAL CLEAN UP	3,616	sf	@	\$0.50	per SF	\$1,808.00	BILLED HOURLY
K	PERMITS AND FEES	0	Isum	@	\$0.00	ea	\$0.00	By Owner
L	BUILDERS RISK INSURANCE	0	Isum	@	\$0.00	ea	\$0.00	By Owner
M	WELL DRILLING AND PUMP	0	Isum	@	\$0.00	ea	\$0.00	By Owner
N	NEW ELECTRICAL SERVICE	0	Isum	@	\$0.00	ea	\$0.00	By Owner
0	PUNCHLIST	1	Isum	@	\$4,000.00	ea	\$4,000.00	MISC. AT THE END

Division Total \$96,020.00

DIV 2	SITE WORK								
Α	SITE EVALUATION FOR SEPTIC	1	Isum	@	\$6,000.00	ea		\$6,000.00	
В	BUILDING EXCAVATION & BACKFILL	1	Isum	@	\$12,000.00	ea		\$12,000.00	Alllowance
С	WASHED ROCK	1	Isum	@	\$3,000.00	ea		\$3,000.00	Alllowance
D	DRAIN TILE SYSTEM	220	lin. Ft.	@	\$10.00	lin. Ft.		\$2,200.00	Alllowance
E	SEPTIC SYSTEM ALLOWANCE	1	Isum	@	\$17,000.00	ea		\$17,000.00	PRESSURE SYSTEM - ESTIMATE FROM MIKE AT IMEG
F	UTILITY TRENCHING ALLOWANCE	1	Isum	@	\$6,000.00	ea		\$6,000.00	Alllowance
G	BURIED PROPANE TANKS	0	# tanks	@	\$6,000.00	per tank		\$0.00	
Н	DRIVEWAY ALLOWANCE	1	Isum	@	\$10,000.00	ea		\$10,000.00	
1	ROUGH GRADING	1	Isum	@	\$6,000.00	ea		\$6,000.00	
J	CLEARING & GRUBBING ALLOWANCE	1	Isum	@	\$2,000.00	ea		\$2,000.00	
K	LANDSCAPE	7	lsum	@	\$0.00	ea		\$0.00	By Owner
							al	\$64,200,00	

4

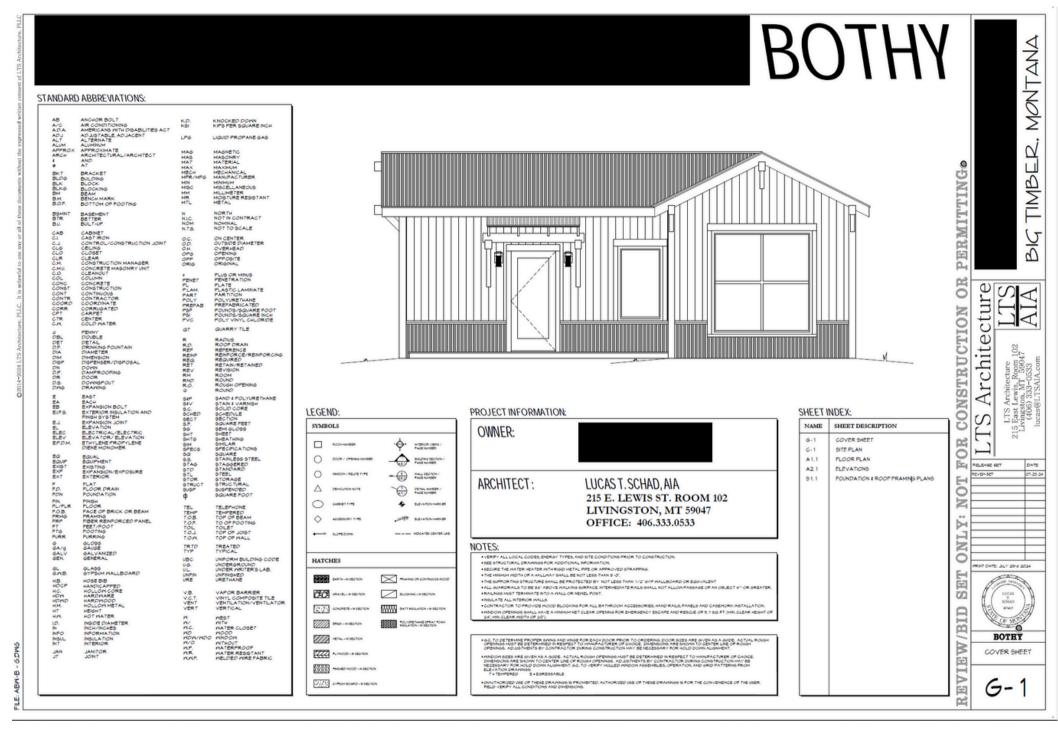
Construction Documents

The architect creates a detailed set of instructions that describes the finished product.

- structural, mechanical, and electrical engineering work is underway
- hardware, lighting, door, window, and finish schedules are being created

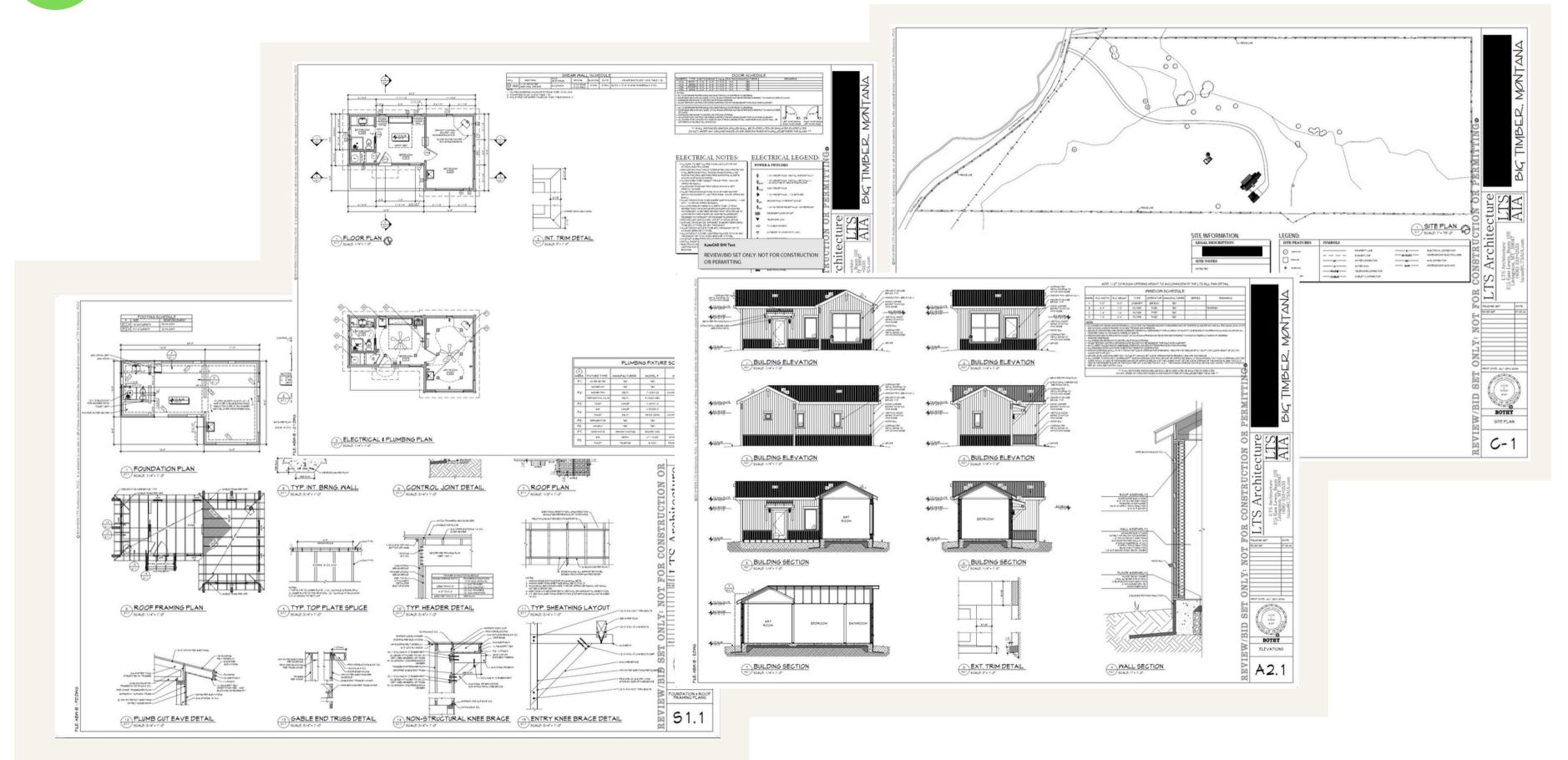
The Design Development and Construction Documents phases often blur together.

The architect is available during construction for Construction/
Contract Administration on an asneeded basis.



Construction documents typically include a cover sheet, a site plan, floor plans, elevations, and foundation and roof framing plans. These documents detail how the structure should be built.

4 Construction Documents



\$2,500.00

\$2,600.00

\$48,963.40

\$2,600.0

Division Total \$63,420.00

02n Future water Line conduit (Phase I)

Division 01: General Conditions

021 Landscape Allowance 02m Connect water Line Allowance

01d Gradalls

Division 02: Site Work

4 Construction Documents

APPLICATION AND CERTIFICATION FOR PAYMENT

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01e	Dumpster/Trash Removal	_	in previous apps by (ARCHITE	
01f	Rental Equipment	_	Total approved this a	pp			\$0.00		By:	
01g 01h	General Clean-up / Final Clean up Site Utilities / Fuel	_	TOTALS			\$16.891	16,891.88	\$0.0		
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01j	Punchlist		NET CHANGES by	Change Order					prejudice t	
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rision 0	2: Site Work									
02a	Excavation (Phase I)	\$9,520.00	\$9,520.00	\$9,520.00	\$0.00	\$0.00	\$9,520.00	100%	\$0.00	
02b	Backfill & Final Grading (Phase II)	\$3,000.00	\$2,500.00	\$2,500.00	\$0.00	\$0.00	\$2,500.00	100%	\$0.00	
02c	Washed Rock (Phase II)	\$4,000.00	\$3,123.40	\$3,123.40	\$0.00	\$0.00	\$3,123.40	100%	\$0.00	
02d	Drain Tile System (Phase II)	\$1,500.00	\$1,300.00	\$1,300.00	\$0.00	\$0.00	\$1,300.00	100%	\$0.00	
02e	Septic System (Phase II)	\$8,500.00	\$6,500.00	\$6,500.00	\$0.00	\$0.00	\$6,500.00	100%	\$0.00	
02f	Utility Trenching Allowance (Electrical and Water) (Phase II)	\$2,500.00	\$2,900.00	\$2,900.00	\$0.00	\$0.00	\$2,900.00	100%	\$0.00	
02g	Buried Propane Tanks (Phase II)	\$9,000.00	\$8,500.00	\$8,500.00	\$0.00	\$0.00	\$8,500.00	100%	\$0.00	
02h	Equipment Mobilization	\$1,500.00	\$520.00	\$520.00	\$0.00	\$0.00	\$520.00	100%	\$0.00	
02i	Misc. Site work	\$2,000.00	\$2,000.00	\$1,937.46	\$0.00	\$0.00	\$1,937.46	97%	\$62.54	
02j	Clearing and Grubbing (Phase I)	\$2,500.00	\$2,500.00	\$2,500.00	\$0.00	\$0.00	\$2,500.00	100%	\$0.00	
02k	Driveway work - Allowance (Phase I)	\$6,800.00	\$6,800.00	\$6,800.00	\$0.00	\$0.00	\$6,800.00	100%	\$0.00	
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\$48,700.86

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OWNER OD FROM: ARCHITECT 11/6/2020 CONTRACTOR OD TO: 11/20/2020 TRACT DATE: 6/1/2018 ned Contractor certifies that to the best of the Contractor's knowledge, and belief the Work covered by this Application for Payment has been accordance with the Contract Documents, that all amounts have been paid by or for Work for which previous Certificates for Payment were issued and eived from the Owner, and that current payment shown herein is now due. CONTINUATION SHEET LTS Architecture

Distribution to:

LTS Architecture

49.0

Total Work Completed This Period

PERIOD TO: 11/20/2020 APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed ARCHITECT'S PROJECT NO: Certificate is attached. Work Completed Total Values This Period (G ÷ C) to Finish Stored and Stored to Date Division 01: General Conditions \$94,267.75 \$108,483.24 \$281.10 \$9,491.45 \$48,700.86 \$63,420,00 \$48,963,40 \$48,700,86 \$0,00 99% \$262.54 Division 02: Site Work \$0.00 Division 03: Concrete \$83,125.00 \$126,890.20 \$126,890.20 \$0.00 \$0.00 \$126,890.20 \$0.00 \$41,200.00 \$41,200.00 Division 04: Masonry \$41,200.00 \$41,200.00 \$500.00 Division 05: Metals \$10,375,00 \$7,068,47 \$6,568,47 \$0.00 \$0.00 \$6,568,47 93% Division 06.1: Rough Carpentry \$126,810.00 \$149,598.49 \$149,598.49 \$0.00 \$149,598.49 \$0.00 \$12,752.18 \$58,277.00 \$48,377.00 \$32,854.82 \$35,624.82 Division 06.2: Finish Carpentry Division 07: Thermal & Moisture \$114,242,40 \$119,661,99 \$119,661.99 \$0.00 \$0.00 \$119,661.99 100% \$0.00 Division 08: Doors and Windows \$66,147.60 \$67,174.47 \$62,334.14 -\$336.12 \$0.00 \$61,998.02 92% \$5,176.45 Division 09: Finishes \$126,859.65 \$123,756.59 \$119,590.60 \$19.99 \$119,610.59 \$4,146.00 \$0.00 Division 10: Specialties \$8,660.00 \$7,460.00 \$2,795.00 \$1,805,00 \$0.00 \$4,600.00 62% \$2,860.00 \$22,550.00 \$22,550.00 \$0.00 \$22,190.17 \$359.83 Division 11: Equipment \$22,190.17 Division 12: Cabinetry \$46,730.00 \$50,630.00 \$42,189,62 \$0.00 \$0.00 \$42,189,62 83% \$8,440.38 \$67.50 Division 15.1: Mechanical \$49,767.00 \$43,530,50 \$40.963.00 \$0.00 \$41,030.50 94% \$2,500.00 \$0.00 \$32,023.50 \$0.00 Division 15.2: Plumbing \$32,023.50 \$32,023.50 \$0.00 \$30,825.35 74% \$10,674.65 \$51,500,00 \$41,500,00 \$30,825,35 \$0,00 Division 16.1: Electrical Division 53: Adds to Contract \$0.00 \$264,795.79 \$217,193.27 \$2,185.00 \$0.00 \$219,378.27 83% \$45,417.52 Construction Sub Total \$0.00 \$1,201,082,64 \$102,581.00 \$993.831.40 \$1,303,663,64 \$1,194,290,17 \$6,792.47 Contigency @ 10% \$99,383.14 \$54,346.69 Contigency Used \$45,036.45 Percentage Used 45% \$54,346.69 Construction Management Fee @ 10% \$109,321.45 \$135,801.03 \$119,429.02 \$679.25 \$120,108.26 \$15,692.77 \$1,202,535.99 \$1,493,811.36 \$1,313,719.19 \$1,321,190.90

\$7,471.72

\$172,620.46

Construction

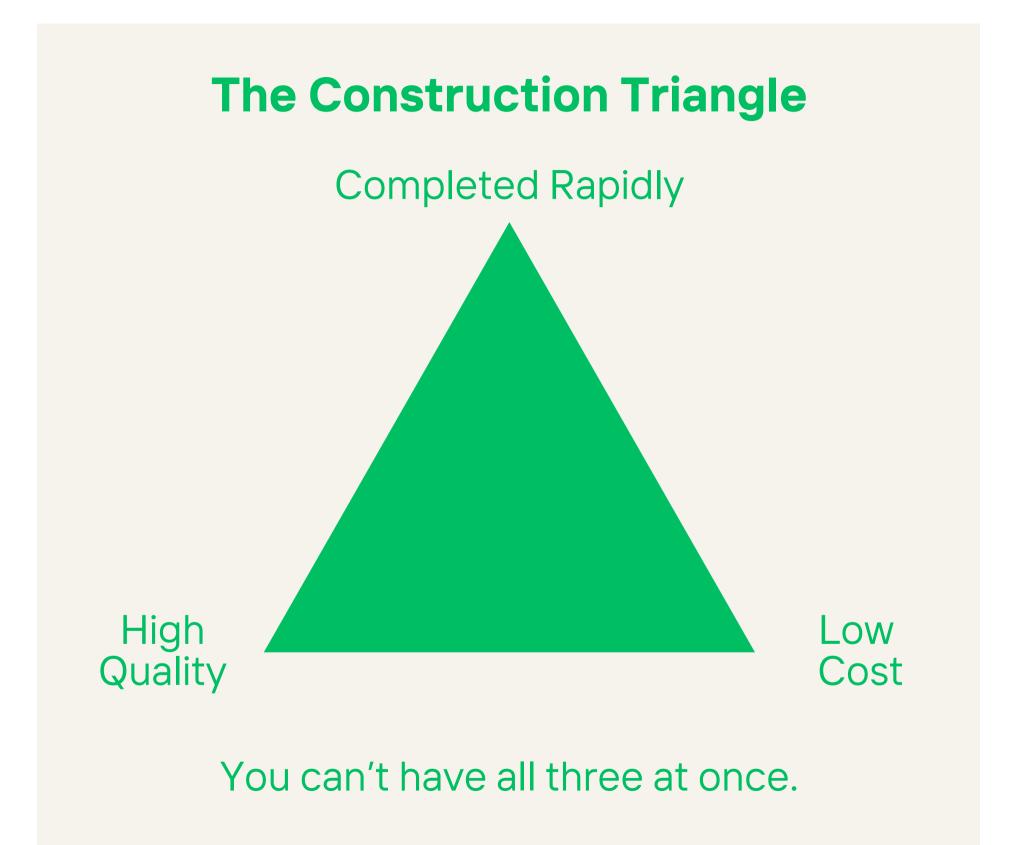
The work triangle consists of three factors: time, cost, and quality.

When you change one of those factors, it is likely to influence the other factors.

For example, when you need a project built faster than anticipated there are two potential outcomes:

- a decrease in quality as a set number of workers try to complete the same amount of work over a shorter period.
- an increase in costs as more workers are hired to complete high-quality work within a shorter period.

One way to keep track of the work triangle is to request regular reports from contractors.

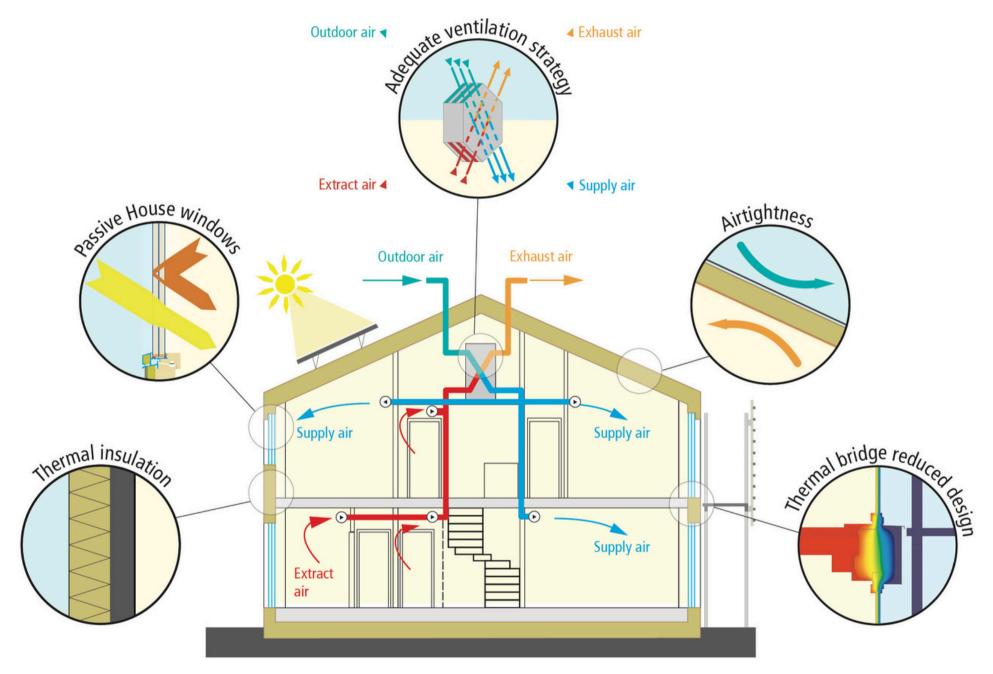


Note About Passive House

Another example of how design flows into construction is the Passive House design and construction standard, which can reduce a home's energy use by up to 80-90%. Passive House principles are often integrated in these stages:

- **Site Planning**. Consideration of solar gain and window placement
- **Design Development.** Energy modeling is often conducted during this phase to help create an airtight building envelope without moisture issues.
- Construction Documents. Specifies highperforming windows and details to reduce thermal bridges, ensure adequate ventilation, and achieve a tight envelope.

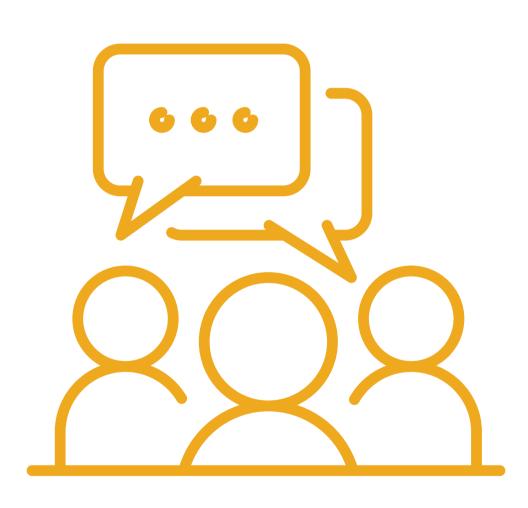
Construction. Contractors execute wall assemblies, air sealing, ventilation, and other unique aspects of a Passive House build.



You can search for and hire professionals certified and/or trained in Passive House principles online at the Passive House member directory:

https://passivehousenetwork.org/directory-directory/.

Discussion / Q & A



10-Minute Break



ADU Management

Special thanks to Baily Goodwine, Owner of Maverick Realty, and Michelle Becker for the content in this section.

Short-Term vs. Long-Term Rental

Whether you rent your property short- or longterm depends on your needs for the space!

Do you need your space to be flexible (e.g., available on short notice for stays be family and friends)?

 Renting your property short-term or to visitors (as a vacation rental) might be more appropriate.



Do you need your space to give you consistent income generation (e.g., to support your retirement)?

 Renting your property long-term as a place for someone to live might be more appropriate.



Vacation Rental Considerations



Benefits of vacation/short-term rentals:

- Space can be available when you want to host family and friends.
- Because of more frequent guest turnover and cleanings, you are in the space more often and can evaluate its condition.
- Potential for high return on investment over a short period of time, depending upon market.
- Participate in the community's hospitality industry.
- Many major vacation rental platforms carry insurance to cover property damage from guests.

Challenges of vacation/short-term rentals:

- They do not contribute to community's housing supply.
- The market for vacation rentals is currently saturated in Livingston. There are an estimated 4,000 Air BnBs in the Yellowstone Park area. Six of Michelle Becker's clients have recently converted their properties back to long-term rentals because they weren't getting bookings.
- If you plan to build your ADU with the intent of using it as a vacation rental, consider how you will attract visitors via:
 - Style
 - Amenities
 - Price
- It's currently very difficult and expensive to hire cleaners.
- If you manage your own vacation rental, the demands are 24-7 and your guests will dictate your schedule.
- The terms of your loan might prohibit vacation rentals.

Long-Term Rental Considerations



Benefits of long-term rentals:

- They contribute to the community's supply of housing.
- Source of reliable income.
- Can require inhabitants to carry renter's insurance.
- Lower turnover

Challenges/Drawbacks of long-term rentals:

- Less flexibility to host family and friends, as someone will be living in the space for the term of the lease.
- Fewer opportunities to inspect the building than vacation rentals, due to less frequent tenant turnover.
- Potentially lower financial returns, depending upon the market.

Management Comparison

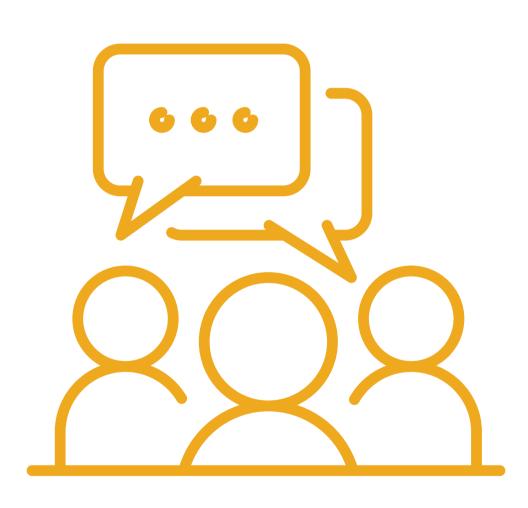
Short-Term Rental Management

- Property management fees in Livingston range 25-30%
 - manage listings
 - schedule cleaning and repairs
 - handle all communications with guests

Long-Term Rental Management

- Property management fees in Livingston range 5-10%
 - screening tenants (e.g., background and credit checks)
 - standardized rental application, lease, lead-based paint and mold disclosures, property condition report
 - handle all communications with tenants
 - provides owner/s monthly reports and income
 - can schedule repairs

Discussion / Q & A



Discussion: How Can PCHC Help?

Instructions: 1-2-4 All

- 1 minute: By yourself, jot down ideas for how we can help.
- 2 minutes: With a partner, build on ideas from self-reflection.
- 4 minutes: In a group of 4, share and develop ideas from your pair.
- 5 minutes: What is one idea that stood out from your conversation?

• Types of Assistance:

- Funding?
 - Grant program? If so, how much?
 - Loan program? If so, how much? For how long?
- Pre-Approved Architectural Plans?
- Finding and screening renters?
- Keeping homeowners who build ADUs connected?
- What should the Coalition require of property owners who participate in our ADU program?
 - Rental requirements (e.g., max household income, work requirements, etc.)?
 - Open Deed restriction on your property?
 - Membership fees?
 - How long should those requirements last?

Quick Survey

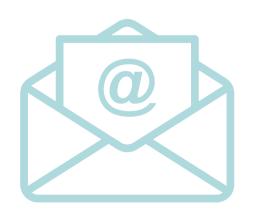
- Did we meet our session goals?
- Should we offer this workshop again?
- Any stories you would like to share that I can pass along to the Coalition's funders?

Link to the online survey: https://forms.gle/L7GbCcyEc93Uonyh8

Want to stay informed about the Coalition's work?



Join the coalition and subscribe to our email list at www.parkcountyhousing.com



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