CONSTRUCTION MANAGEMENT PROPOSAL

Charles J. Colgan, Sr. High School

2024 NAHB Secondary Competition

Tim Mason 4001 Prince William Parkway Suite 201 Woodbridge, VA 22192 tmason@pwcgov.org

December 19, 2023

Dear Panel Members:

Please accept the student submission for the NAHB Student Competition Construction Management assembled by Charles J. Colgan, Sr. High School team.

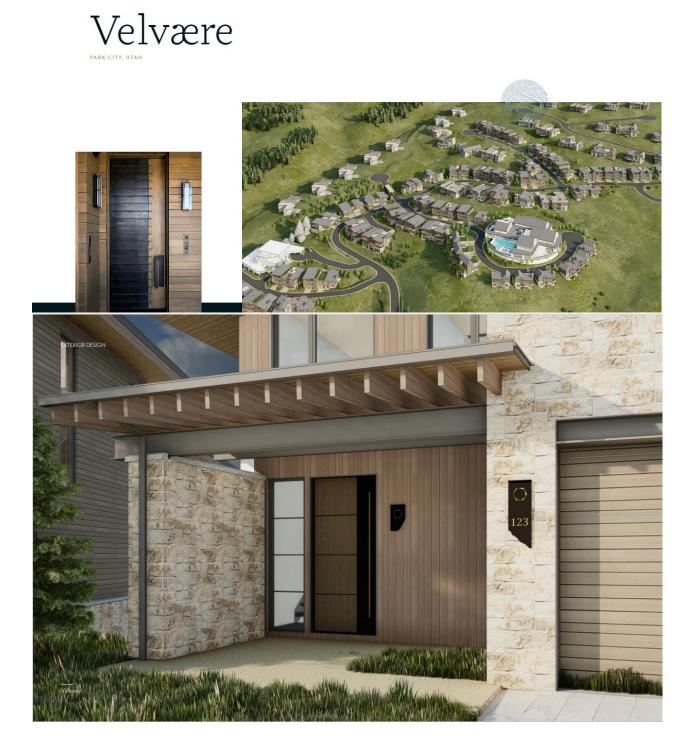
Colgan High School is a performing and fine arts transfer school. It is not a school focused on construction or engineering. The NAHB students meet once a week, and we learn a little about the building industry.

This proposal is developed by a four-member team comprised of two transfer students, one performing arts (Rhea), the other fine arts (Aurora), a creative writing student (Zhane'), and a regular student (Ethan). Their submission is the culmination of self-study/research and developing critical questions to questions. Rhea and Aurora are returning competitors.

Thank you for volunteering to participate in this competition.

Respectfully submitted,

Tim Mason



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About Colgan High School



Charles J. Colgan Sr. High School, located at 13833 Dumfries Rd, Manassas, Virginia, is the 12th high school in Prince William County and has been designated as the Center for the Fine and Performing Arts (CFPA). Many of the students at Colgan High School are enrolled in this program, taking classes that align with their talents and interests. These classes include creative writing, visual arts, music technology, theater, piano, band, orchestra, choir, and dance.

However, the CFPA program is not the only thing this school is positively acknowledged for. Colgan High School also has impressive academic success, ranking in the top 13% of high schools throughout the nation and being in the top 20% in the state.

https://colganhs.pwcs.edu/index

Meet Our Team

Ray Butler (Third Year Member & Second Year Competitor) Assistant Proposal Coordinator and Lead Proposal Project Plan Manager

A senior who enjoys undertaking challenges and developing new skills and plans to become an aeronautical engineer.





Aurora Ramos (Third Year Member & Second Year Competitor) Lead Proposal Coordinator

An art student who loves to learn new things and accepts a good challenge. She is pursuing a career in architecture.

Ethan Reyes (Second Year Member & First Year Competitor) Lead Pricing Plan Coordinator

A junior with an interest in civil engineering and is skilled in math and leadership. Enjoys anything that requires creativity and is a challenge.





Zhane' Blair (Second Year Member & First Year Competitor) Lead Proposal Document Manager/Writer A junior skilled in writing and cooperation who has a passion for designing. Zhane' is interested in an architectural design career.



Tim Mason

Charles J. Colgan, Sr. H.S. NAHB Student Chapter Advisor Tim is the Professional Development, Intern, and apprenticeship Coordinator for the Prince William County Department of Facilities & Fleet Management, and he is the founding advisor for the Colgan NAHB Student Chapter.

Meet Our Team – Contributors

Kristjan Agnarsson (New Member)

A freshman who worked on pricing and drawing plans, skilled in math, and is hardworking.

Chris Turcios (New Member)

A freshman who worked on drawing plans. Chris is skilled in leadership and creativity.

Jayden Tibayan (New Member) A freshman who worked on listing materials, skilled with math, and has a good work ethic.

Christa Ngyien (New Member)

A freshman who worked on pricing and materials, skilled in drawing, and is innovative.

Liliana Simmons (New Member)

A freshman who worked on pricing and materials, skilled with designing, and is up for any challenge.

Aisha Ghafoori (New Member)

A freshman who worked on permits and inspections, skilled in leadership and artistic.

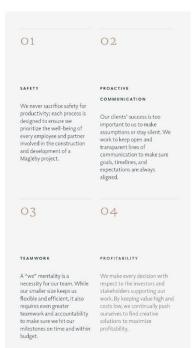
Kayla Boatwright (New Member)

junior who worked on plan drawings and is skilled in art and innovation.

Company Information

Magleby Development

"Luxury Development for Wellness Living"



Magleby Development is a luxury development company that focuses on well-being and centric living. The four following core values define Magleby Development's approach to each decision, creating a highquality custom home building.

Magleby is currently helping to create more living spaces in the Wasatch area in Par City, Utah.



Scope of Work

The project is in Park City, Utah, in Velvaere, a Magleby Development community. The assignment is to build the plan "Cabin B" on a pre-graded lot located at 10226 N LIV PL (lot C-07) within Velvaere. We will be providing the following:

- Assistive Drawings
- A Market-Based Material and Labor Estimate
- A Construction Schedule

Administrative/Pre-Construction Considerations

OSHA requirements are set to provide fall protection, prevent trenching cave-ins,

prevent exposure to some infectious diseases, ensure the safety of workers who enter confined

spaces, prevent exposure to such harmful substances as asbestos and lead, put guards on

machines, provide respirators or other safety equipment, and provide training for specific

dangerous jobs.

Problem Resolution Procedures

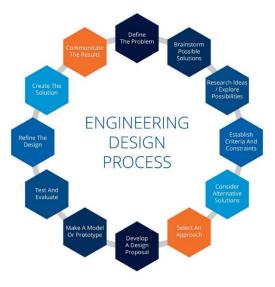


Figure 1 - Problem Solving Process

Our problem-resolution process begins with defining and identifying what the desired resolution looks like when the problem no longer exists. Next, we establish a set of guidelines and constraints to keep our resolution relevant to the issue at hand. We then brainstormed and researched ways to solve the problem. After that, we'll test our solution and evaluate how well it worked. If the solution is

successful, we fully implement it and conduct follow-ups to ensure the solution is sustained. If the solution is unsuccessful, we cycle back through the problem-solving process to identify another possible solution. The process continues until a solution is identified and implemented.

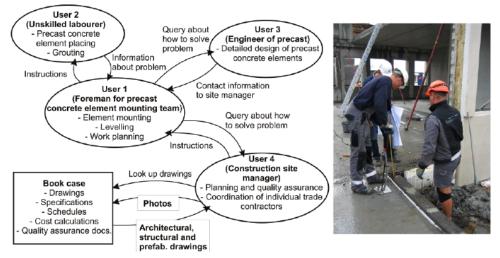


Figure 2 - Problem Solving Example

Permits & Inspections

INSPECTIONS

- The LOD inspection will need to be approved prior to permit issuance.
- SWPP Inspection (Storm Water Pollution Prevention)

PERMITS

- Operational Permit
- Engineering Permit
- State Permit
- Common Plan Permit (CPP)

Locality Permit Applications and Fees

"You will need a building permit unless the work is exempt in accordance with the International Building Code Sec. 105.2 or the International Residential Code Sec. 105.2. Examples of exempt work are carpeting, painting, wallpapering, cabinets, countertops, etc. In general, any drywall work will require a permit. If you have further questions, please feel free to contact us! Call us at (435) 615-5101."

- Operational Permits or fire sprinklers, alarms, and other suppression systems.
- Engineering Permit for work within the public right-of-way, including utilities, drainage, and grading.
- A State permit requires us to control and eliminate stormwater pollution sources through the development and implementation of a SWPPP.
- Common Plan Permit (CPP)- "applies to single residential lots disturbing less than an acre and located in subdivisions that are an acre or greater that were subdivided post-October 1992."
- (Via https://www.parkcity.org/departments/building-department)

3. Once a permit application is accepted, the following generally describes our plan review process:

• The types of plan review assigned to your application will depend on several factors, such as, the permit type, scope of work and project location. Typical plan reviews for new construction and additions:

Building - reviews the design of the building, including structural, trades, and Wildland Urban Interface.

Fire Safety - reviews fire sprinklers, alarms, and other suppression systems, emergency lighting and evacuation plans.

<u>Community Code Compliance</u> - reviews Construction Mitigation Plan, Limits of Disturbance, and Erosion Control.

Engineering - reviews work within the public right-of-way, utilities, drainage, and grading.

<u>Planning</u> - reviews plans for compliance with zoning regulations, such as setbacks, building height, design, and if applicable, building pad limits.

- When all initial reviews are done, the applicant will receive an approval or conditional approval notification from each assigned plan review.
- The plan review process is complete when all reviews are signed off and approved.
- 4. Get your permit!

- Pay the permit fees through the <u>Finance Department</u>; then provide proof of payment to the Building Department.
- Finally, print your approved plans and permit from MCI.

My permit is issued, what's next?

- Review the Conditional Approval and Deferred Submittal Items form that is attached to your Approved plan set. Submit all items indicating they be submitted before scheduling a Limits of Disturbance (LOD) inspection.
- Schedule an LOD inspection **and** schedule a Pre-Construction meeting through the Building Department (435) 615-5101.
- With a passing LOD inspection, construction can begin.
- See <u>Building Inspections FAQ's</u> page to schedule inspections.

(Via https://www.parkcity.org/departments/building-department/building-permit-faq-s)

Inspections will be performed after completion and self-review of each required inspection
phase. Should there be any reason we do not pass, the relevant trades will have been scheduled
to be on-site near the time of inspection so we can quickly resolve issues and get approved to
keep the construction process on time.

* The cost of the permit covers the cost of inspections for each category as well.

Construction Notes

Footings

- A Geotech report evaluating the excavation and soil is required.
- A pit test report will not be accepted.
- A vertical bar is required to be tied to the footing.
- No wet stabbing is allowed.

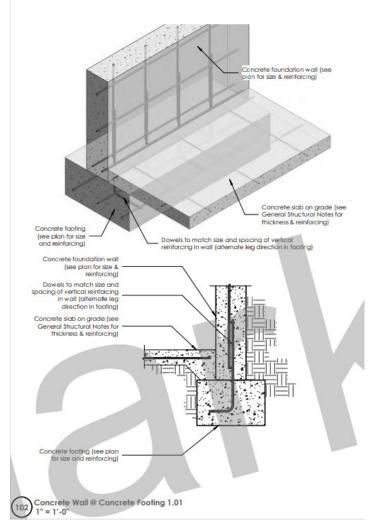


FIGURE A: FOOTING DETAIL

Foundation

- The top footing survey needs to be completed, & on-site for the foundation inspection.
- The UFER ground will need to be tied into the footing/foundation rebar.

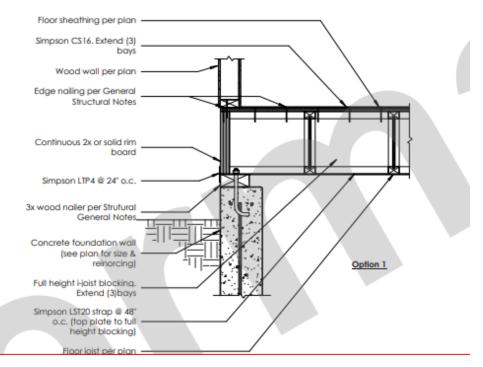


FIGURE B: FOOTING CONNECTION TO WALL/FLOOR DETAIL

Sub-Rough Plumbing/Mechanical

- Plumbing must be tested under a 5ft column of <u>water pressure only</u> between November 1 and May 1.
- Mechanical ducting should have all seams sealed.

Ext./Int. Sheer Wall

In order to build a strong, structurally sound house in Utah, it is imperative to use Sheer Walls to take on the lateral forces, such as the numerous Earthquakes in Utah.

- Any special shear wall inspections must be completed prior to this.
- Any special inspection report needs to be on-site for review.
- Window or door flashing should not be installed prior to passing the exterior shear wall inspection.

Dry-In/Exterior Weather Barrier

- Park City requires roof sheathing nailing inspection prior to the roof dry-in inspection.
- The drip edge needs to be installed for the roof to dry during inspection.
- All seams and penetrations must be taped for the weather barrier inspection.
- Window flashing shall be inspected prior to the weather barrier inspection.
- For window replacement inspections, the window flashing needs to be inspected before the trim is installed for the final inspection.

Roof Framing

- Top plate up
- Truss packages (both roof and floor) are required to have three stamps.
- The engineer from the truss manufacturer, the engineer of record, will be approved by Park City.
- Make sure that all stamped documents are on site for the inspection.

Building 4-Way (Framing, Plumbing, Mechanical, Electrical)

- The top plate down is scheduled separately from the top plate up.
- Floor plans will be verified at this stage. Make sure floorplans match approved plans or have redlines for inspection.

Planning 4-Way

- Elevations will be verified. Please make sure elevations match approved plans or have redlines for inspection. i.e., window changes (size and location), siding, stone, etc.
- Verify mechanical equipment location.
- Verify retaining wall location and sizes.

Fire Sprinkler Layout

- The Fire Marshal performs this inspection.
- This inspection must be completed and passed before any insulation is installed.

Gas Turn-On

- It can be included in the 4-way inspection.
- The gas line must be under pressure min. 2.5 times the working pressure.
- The gas schematic and Park City Gas Form must be filled out prior to inspection and should be on site for the inspector to verify.
- Provide the inspector with a copy of the file.
- Gas meter clearances will be sent on the same day as the inspection approval.

Radiant Tube Inspection

- Approved radiant heat loss calculations should be on site.
- The system should be under pressure at 100 psi.
- The driveway slope should be less than 14%. Driveway widths within the Historic District may not exceed 12 ft., and all other driveway widths may not exceed 27 ft.

Power to Panel

- At least one GFCI should be installed in the house.
- The ground/UFER should be visible.
- A power meter clearance will be issued on the same day as the inspection approval.
- All of these inspections should be completed and passed before any insulation is installed.

Insulation

- Closed cell foam insulation (if applicable) is a separate inspection from blown-in/batt insulation. Inspectors WILL NOT enter a house where spray foam is being installed. The home should be ventilated for at least 24 hours prior to inspection.
- An insulation certificate needs to be filled out by the installer prior to the insulation inspection.

Drywall/Denshield

- No mudding or taping until the inspection is approved.
- Fire separations must be met.

Showerpan

- Pans should be filled with water prior to a shower pan inspection. The pans will be drained during the inspection.
- There should be no pooling once the shower pan has fully drained. Weep holes should not be sealed.

Building Final Inspection

- Fire sprinkler flow tests shall be called in as a separate inspection.
- Both the planning and engineering departments have final inspection requirements. These inspections will be scheduled once the building's final inspection is complete.

Planning Final Inspection

Please make sure that elevations, landscape, retaining walls, mechanical equipment, and all other LMC-related items match approved plans.

Engineering Final Inspection

Driveway and work in the Right of Way.



Property crimes in Wasatch, Park City are relatively much lower than the US average (<u>https://www.bestplaces.net/crime/county/utah/wasatch</u>); with this information in mind, the majority of post-framing materials can be kept on-site in the house until ready for use. Delivery is timed in a way that won't overcrowd the workspace.

Estimate

Materials were pulled from the architectural document specs, and the marketing booklet was provided. Prices of exact or closely matched materials were determined through a market-based approach.

		Takeoff Qty		Unit Cost		Amount
Item	Description	Quantity	UOM	Cost/Unit	UOM	Total
02-00	SITE WORK					
2-0203	Stake Building	1,547		1.00		1,54
2-0213	SWPPP Plan BMP	596		8.00		4,76
2-0214	Lot Clearing	9,390		2.00 125.00		18,78
2-0220	Excavation Rough Grade	7,123		2.00		14,24
2-0222	Interior Concrete Grading	1,547		2.00		3,09
2-0223	Exterior Concrete Grading	720		2.00		1,44
2-0224	Finish Grade	7,123		1.00		7,12
2-0225	Hauling	204		185.00		37,74
2-0230	Backfill & Compact	102	CY	125.00		12,75
2-0232	Gas Lines	69	LF	25.00	/LF	1,72
2-0233	Elec/Phone/T.V. Line	69	LF	3.50	/LF	24
2-0234	Water Lines	69	LF	225.00	/LF	15,52
2-0235	Sewer Lines	69	LF	250.00	/LF	17,25
2-0237	Storm Water System	29	LF	150.00		4,35
2-0238	Footing Drain	248		100.00	/LF	24,80
2-0239	Radon Systems		LF	100.00		3,00
2-0280	Landscaping	7,123	SF	8.00		56,98
	Dumpster		EA	9,675.00		9,67
	Porta John	1	EA	3,000.00	/EA	3,00
2-0285	Sprinkler Systems	7,123	SF	1.00	/SF	7,12
	SITE WORK		SSF		/SSF	268,28
03-00	CONCRETE					
3-0310	Footings	162	LF	16.20	/LF	2,62
3-0320	Foundations	2,668	SF	37.00	/SF	98,71
3-0321	Concrete Site Walls	306	SF	5.50	/SF	1,68
3-0330	Flatwork Interior	1,325		12.00		15,90
3-0340	Decorative Exterior Concrete	200		5.50		1,10
3-0350	Concrete Pumps		EA	43,200.00		43,20
3-0352	Gypcrete	2,668		12.00		32,0
3-0353						
	Spandeck/Suspended Slabs	2,650		10.00		26,50
3-0355	Concrete Cutting	125		55.00		6,87
3-0360	Concrete Disposal	6	MO	2,848.00		17,08
	CONCRETE		CY		ICY	245,70
04-00	MASONRY					
4-0415	Stone Masonry - Site Walls	918	SF	51.00	/SF	46,8
4-0430	Interior Stone Masonry	50	SF	51.00	/SF	2,5
4-0431	Exterior Stone Masonry	1,055	SF	51.00	/SF	53,8
4-0432	Masonry Accents	N/A	LF	N/A	/LF	
	MASONRY		GSF		/GSF	103,17
05-00	METALS					
05-0510	Structural Steel	4,400	LBS	2.00	/LBS	8,80
05-0515	Steel Connections	2,200			/LBS	4,4
05-0525	Exterior Railing		LF	49.50		2,5
05-0526	Interior Railing		LF	50.00		1,6
05-0540	Decorative Metal	20	SF	45.00		9
	METALS		GSF		/GSF	18,22
06-00	CARPENTRY					
6-0600	Framing - Labor	2,650	GSF	20.00	/GSF	53,00
6-0601	Framing - Material	2,650	GSF	32.59	/GSF	86,36
6-0602	Framing - Trusses	1,577	SF	1.85	/SF	2,9
6-0604	Pickup Framing	2,650	GSF	25.00	/GSF	66,2
6-0610	Finish Carpentry - Labor	2,650	FSF	15.00	/FSF	39,7
5-0611	Finish Carpentry - Material	2,650		15.00		39,7
5-0612	Detail Finish Carpentry - Labor	224		50.00		11,2
5-0613	Detail Finish Carpentry - Material	224		24.00		5,3
5-0613	Siding Labor	1,055		15.00		15,8
5-0620						
	Siding Material	1,055			/SF	26,3
6-0630	Deck Surface Labor	325		25.00		8,1
6-0631	Deck Surface Material	325		40.00		13,00
6-0650	Cabinetry		LF	2,000.00		40,00
5-0651	Cabinetry Hardware	5	LF	200.00	/LF	1,00
6-0681	Timber Framing - Labor	475	LF	30.00	/LF	14,2
6-0685	Timber Framing - Material	475	LF	15.00	/LF	7,1
	CARPENTRY		GSF		/GSF	430,31

07-00 07-0700	THERMAL & MOISTURE Dampproofing	2,650	SF	20.00	/SF	53,000
7-0710	Exterior Vapor Barrier	2,110		7.00		14,770
7-0711	Rain Screen	2,110		20.00		42,200
7-0720	Insulation	2,110		5.30	/GSF	11,183
7-0721	Air Sealing	2,650			/GSF	9,805
7-0725	Exterior Continious Insulation	2,110		5.00		10,550
7-0730	Roofing	2,650		13.20		34,980
				15.20		34,300
7-0731	Roof Vents / Cupola / Finial		SF			
7-0740	Metal Flashing/Reglets		LF	1.00		50
7-0760	Gutters & Downspouts	150		1.75		263
7-0761	Snow Retention		LF	19.30		965
7-0770	Fascia - Labor	150		20.00		3,000
7-0771	Fascia - Material	150		12.00		1,800
7-0772	Soffit - Labor	150		34.00		5,100
7-0773	Soffit - Material	150	SF	11.00	/SF	1,650
	THERMAL & MOISTURE		GSF		/GSF	189,616
08-00	DOORS & WINDOWS					
8-0805	Interior Doors	14	EA	600.00		8,400
3-0806	Door and Hardware - Install	14	EA	1,500.00	/EA	21,000
8-0810	Exterior Doors	8	EA	2,000.00	/EA	16,000
8-0815	Entry Door Systems	2	EA	280.00	/EA	560
8-0820	Door Hardware	48	EA	10.00	/EA	480
8-0825	Specialty Hardware	N/A	EA	N/A		0
8-0830	Garage Doors		EA	1,200		1,112
8-0840	Windows	460		80.00		36,800
8-0843	Specialty Windows/Doors	N/A		N/A		00,000
8-0845	Window Install		EA	400.00		3,600
8-0846	Window Histain Window Flashings	158		5.00		790
8-0860	Mirrors		SF	50.00		4,200
8-0870	Shower Doors			100.00		
0-08/0		68	SF	100.00		6,800
	DOORS & WINDOWS		GSF		/GSF	99,742
09-00	INTERIOR FINISHES					
9-0920	Drywall	2,650	GSF	10.00	/GSF	26,500
9-0925	Specialty Drywall/Plaster	288	SF	15.00	/SF	4,320
9-0930	Tile Labor	1,244	SF	30.00	/SF	37,320
9-0931	Tile Material	1,244	SF	5.00	/SF	6,220
9-0938			SF	1000		10,000
9-0940	Slab Tops Hardwood Flooring	2,220		45.00		99,900
9-0950	Carpet	450		40.00		18,000
9-0950		375		30.00		11,250
	Garage Coatings					
9-0960	Wall Coverings	200			/SF	4,000
9-0970	Interior Paint/Stain	2,220		20.00		44,400
9-0975	Exterior Paint/Stain	2,220		20.00		44,400
	INTERIOR FINISHES		GSF		/GSF	306,310
10-00	SPECIALTIES					
0-1010	Sealed Combustion Fireplaces	2	EA	3,500.00	/EA	7,000
0-1013	Mantels/Surround	2	EA	1,000.00	/EA	2,000
0-1014	Hearths	2	EA	20,000.00	/EA	40,000
0-1015	Chimney Caps	1	EA	1,000.00	/EA	1,000
0-1030	Toilet/Bath Hardware	3	BA	5,000.00	/BA	15,000
0-1040	Master Closet Systems		LF	500.00		3,750
0-1045	Other Closet Systems		EA	6,500.00		19,500
0-1046	Garage Cabs/Storage		LF	250.00		2,250
	SPECIALTIES	5	GSF	200.00	/GSF	90,500
			031		,03F	90,000
	EQUIPMENT					
1-00			EA	75,000.00		75,000
1-1120	Appliances			6,000.00		6,000
-1120	Appliances Custom Hoods		EA			20,000
1-1120 1-1122	Outdoor Appliances	1	LF	5,000.00	/LF	
11-00 1-1120 1-1122 1-1125		1			/LF /GSF	101,000
1-1120 1-1122 1-1125	Outdoor Appliances EQUIPMENT	1	LF			
1-1120 1-1122 1-1125 12-00	Outdoor Appliances	1	lf <i>GSF</i>		/GSF	
1-1120 1-1122	Outdoor Appliances EQUIPMENT FURNISHINGS	1	lf <i>GSF</i>		/GSF	101,000
1-1120 1-1122 1-1125 12-00 2-1210	Outdoor Appliances EQUIPMENT FURNISHINGS Furniture FURNISHINGS	1	lf <i>GSF</i>		/GSF	101,000 100000
1-1120 1-1122 1-1125 12-00	Outdoor Appliances EQUIPMENT FURNISHINGS Furniture	2650	lf <i>GSF</i>		/GSF	101,000 100000

15-00	MECHANICAL WORK					
15-1510	Plumbing Systems	1	EA	16,000.00	/EA	16,000
15-1511	Plumbing Fixtures	13	EA	1,000.00	/EA	13,000
15-1512	Specialty Plumbing Fixtures	3	EA	1,550.00	/EA	4,650
15-1514	Radiant Heat Prep	2,200	SF	20.00	/SF	44,000
15-1515	Radiant/Hydronic Heat Systems	2,200	SF	40.00	/SF	88,000
15-1516	Snow Melt Prep	150	SF	30.00	/SF	4,500
15-1517	Snow Melt System	150	SF	60.00	/SF	9,000
15-1525	Water Treatment Systems	1	EA	13,000.00	/EA	13,000
15-1530	HVAC System & Controls	2,200	GSF	20.00	/GSF	44,000
15-1535	HVAC Peripherals	1	EA	10000	/EA	10,000
15-1550	Fire Sprinklers	2,200	GSF	3.00	/GSF	6,600
	MECHANICAL WORK		GSF		/GSF	252,750
16-00	ELECTRICAL					
16-1610	Electrical System	2,200	GSF	50.00	/GSF	110,000
16-1611	Structural Lighting Package (cans)	5	FSF	500.00	/FSF	2,500
16-1612	Specialty Electrical Fixtures	9	FSF	500	/FSF	4,500
16-1613	Decorative Electrical Fixtures	4	FSF	250.00	/FSF	1,000
16-1614	Heat Trace/Cables/Mats	204	LF	20.00	/LF	4,080
16-1615	Sustainable Energy Source/Storage	N/A	LS	N/A	/LS	0
16-1620	Lighting System	1	LS	10,000.00	/LS	10,000
16-1625	Emergency Power System	1	EA	18000	/EA	18,000
16-1630	Structured Wiring	2,200	FSF	30.00	/FSF	11,000
16-1635	Distributed A/V Systems	2	EA	11,500.00	/EA	23,000
16-1640	Security Systems	2,200	FSF	30.00	/FSF	66,000
16-1645	Motorized Shades	9	EA	250.00	/EA	2,250
	ELECTRICAL		GSF		/GSF	252,330
	Total					2,469,949

Project Management Plan

					Duration	Dependencies
ltem	Phases	Phases / Tasks	Start	End	(Working Days)	Dependencies
		Pre-Construction	1/15/2024	4/1/2024	56	
	Phase 1	Permitting and Approvals	1/15/2024	4/1/2024	56	
1	Phase 1	Contracts	1/15/2024	1/19/2024	5	
2	Phase 1	Supply Lot Sale Agreement	1/22/2024	1/22/2024	1	
3	Phase 1	Supply Construction Agreement	1/22/2024	1/22/2024	1	
4	Phase 1	Supply Contract Plans	1/22/2024	1/22/2024	1	
5	Phase 1	Supply Contract Specifications	1/22/2024	1/22/2024	1	
6	Phase 1	Supply Contract Site Plan	1/22/2024	1/22/2024	1	
7	Phase 1	Secure Financing	1/22/2024	2/22/2024	24	
8	Phase 1	Construction Loan Settlement	2/25/2024	2/25/2024	1	7
9	Phase 1	Document Review & Revision	2/26/2024	3/1/2024	5	
10	Phase 1	Review & Finalize Plans	3/4/2024	3/4/2024	1	
11	Phase 1	Review & Finalize Specifications	3/4/2024	3/4/2024	1	
12	Phase 1	Review & Finalize Site Plan	3/4/2024	3/4/2024	1	
13	Phase 1	Print Construction Drawings	3/4/2024	3/4/2024	1	10, 11, 12
14	Phase 1	Approve Revised Plans	3/5/2024	3/6/2024	2	10
15	Phase 1	Approve Revised Specifications	3/5/2024	3/6/2024	2	11
16	Phase 1	Approve Revised Site Plan	3/5/2024	3/6/2024	2	12
17	Phase 1	Make Copies of Plans	3/5/2024	3/6/2024	2	14, 15, 16
18	Phase 1	Make Copies of Specifications	3/5/2024	3/6/2024	2	15
19	Phase 1	File Grading Permit Application	3/7/2024	3/7/2024	1	14, 15, 16
20	Phase 1	File Building Permit Application	3/7/2024	3/7/2024	1	14, 15, 16
21	Phase 1	Request Grading & Building Permits	3/7/2024	3/7/2024	1	19, 20
22	Phase 1	Grading Permit Issued	3/29/2024	3/29/2024	1	19
23	Phase 1	County Permit Process	3/29/2024	3/29/2024	1	20
24	Phase 1	Building Permit Approved/Issued	3/29/2024	3/29/2024	1	22, 23
25	Phase 1	Schedule Lot Stake-Out	3/29/2024	3/29/2024	1	24
26	Phase 1	Execute Subcontractor Agreements	3/29/2024	3/29/2024	1	1, 24
27	Phase 1	Post Lot Identification	3/29/2024	3/29/2024	1	24
28	Phase 1	Install Sediment Control	4/1/2024	4/1/2024	1	28
29	Phase 1	Walk Lot w/ Owner	4/1/2024	4/1/2024	1	
30	Phase 1	Pay Permit Fees and Excise Taxes	4/1/2024	4/1/2024	1	24
31	Phase 1	Distribute Plans & Specifications	4/1/2024	4/1/2024	1	18
	Phase 2	Site Preparation	4/1/2024	4/12/2024	10	
32	Phase 2	Order: Foundation Materials	4/1/2024	4/1/2024	1	
33	Phase 2	Order: Waterproofing and Drain Tile	4/1/2024	4/1/2024	1	
34	Phase 2	Order: Dumpster	4/1/2024	4/1/2024	1	
35	Phase 2	Survey Lot	4/2/2024	4/2/2024	1	31
36	Phase 2	Stake-Out Lot	4/2/2024	4/2/2024	1	35
37	Phase 2	Sediment Control Inspection	4/2/2024	4/2/2024	1	28
38	Phase 2	Install: Portable Toilet	4/3/2024	4/3/2024	1	20
39	Phase 2	Install: Construction Entrance	4/3/2024	4/3/2024	1	37
40	Phase 2	Lot Clearing	4/3/2024	4/3/2024	1	37
40	Phase 2	Strip Topsoil & Stockpile	4/4/2024	4/4/2024	1	37
41	Phase 2	Excavation	4/4/2024	4/9/2024	3	41
42	Phase 2	Rough Grade Lot	4/10/2024	4/11/2024	2	41
45	Phase 2 Phase 2	Finish Grade Lot	4/12/2024	4/11/2024	1	42
44	Phase 2 Phase 2	Test for compaction	4/12/2024	4/12/2024	1	43
45	FildSe Z		4/12/2024	4/12/2024	I	44

em	Phases	Phases / Tasks	Start	End	Duration (Working Days)	Dependencie
	Phase 3	Foundation	4/1/2024	5/20/2024	36	
	Phase 3	Concrete Foundation Pouring	4/1/2024	4/30/2024	22	
16	Phase 3	Delivery: Foundation Materials	4/1/2024	4/18/2024	14	32
47	Phase 3	Delivery: Waterproofing and Drain Tile	4/1/2024	4/18/2024	14	33
18	Phase 3	Delivery: Dumpster	4/1/2024	4/18/2024	14	34
19	Phase 3	Layout Footings	4/18/2024	4/18/2024	1	45
50	Phase 3	Trench for Footings	4/18/2024	4/18/2024	1	49
51	Phase 3	Batter Boards to level house	4/18/2024	4/18/2024	1	49
52	Phase 3	Install: Rebar	4/19/2024	4/19/2024	1	50
3	Phase 3	Install: Earthquake Straps	4/19/2024	4/19/2024	1	52
4 5	Phase 3 Phase 3	Waterproofing and Drain Tile Footings Pinned and Concrete Poured	4/22/2024	4/23/2024 4/24/2024	2	47 52
6 6	Phase 3	Footing Inspection	4/24/2024 4/25/2024	4/24/2024	1	55
57	Phase 3	Polystyrene blocks for insulated stemwalls	4/25/2024	4/25/2024	1	56
8	Phase 3	Sewer and Water, Plumbing Lateral	4/26/2024	4/26/2024	1	56
i9	Phase 3	Stems poured	4/29/2024	4/29/2024	1	57
60	Phase 3	Prep ground for slab	4/29/2024	4/29/2024	1	59
51	Phase 3	Pour Concrete Slab	4/29/2024	4/29/2024	1	60
52	Phase 3	Tar Waterproofing	4/30/2024	4/30/2024	1	61
53	Phase 3	Backfill and Compaction	4/30/2024	4/30/2024	1	62
64	Phase 3	Install: Temporary Power Pole	4/30/2024	4/30/2024	1	63
5	Phase 3	Scrape Out Driveway	4/30/2024	4/30/2024	1	63
	Phase 3	Foundation Curing and Inspections	4/29/2024	5/3/2024	5	
6	Phase 3	Foundation Curing	4/29/2024	5/3/2024	5	61
7	Phase 3	Order: Steel	4/30/2024	4/30/2024	1	
8	Phase 3	Order: Framing Lumber	4/30/2024	4/30/2024	1	
9	Phase 3	Order: Framing Hardware	4/30/2024	4/30/2024	1	
0	Phase 3	Order: Trusses	4/30/2024	4/30/2024	1	
1	Phase 3	Foundation Inspection/Certification	5/6/2024	5/6/2024	1	66
2	Phase 3	Draw #1 (Location Survey)	4/30/2024	5/20/2024	15	35
3	Phase 3	Delivery: Steel	4/30/2024	5/17/2024	14	67
4	Phase 3	Delivery: Framing Lumber	4/30/2024	5/17/2024	14	68
5	Phase 3	Delivery: Framing Lumber Hardware	4/30/2024	5/17/2024	14	69
'6 '7	Phase 3 Phase 3	Delivery: Trusses	4/30/2024	5/17/2024	14	70 73
/	Phase 3	Set Lintels, Bolts, Cap Block Framing	5/17/2024 5/20/2024	5/20/2024 8/13/2024	62	/3
	Phase 4	Ext and Int Wall Framing	5/20/2024	6/7/2024	15	
8	Phase 4	Order: Plumbing Materials	5/20/2024	5/20/2024	1	
9	Phase 4	Order: Exterior Siding	5/20/2024	5/20/2024	1	
0	Phase 4	Order: Windows and Doors	5/20/2024	5/20/2024	1	
1	Phase 4	Order: Roofing Materials	5/20/2024	5/20/2024	1	
32	Phase 4	1st Floor Wall Framing	5/21/2024	6/7/2024	14	73
3	Phase 4	1st Floor Deck Framing	5/21/2024	5/29/2024	7	74
4	Phase 4	Delivery: Plumbing Materials	5/20/2024	6/6/2024	14	77
5	Phase 4	Delivery: Exterior Siding	5/20/2024	6/6/2024	14	78
6	Phase 4	Delivery: Windows and Doors	5/20/2024	6/6/2024	14	79
7	Phase 4	Delivery: Roofing Materials	5/20/2024	6/6/2024	14	80
8	Phase 4	Install: Gas Line	6/6/2024	6/6/2024	1	83
9	Phase 4	Plumbing	6/6/2024	6/7/2024	2	83
	Phase 4	Plumbing Rough-in	6/10/2024	6/6/2024	5	
0	Phase 4	Plumbing Sub-Slab	6/10/2024	6/13/2024	4	83
1	Phase 4	County Plumbing Sub-Slab Insp.	6/14/2024	6/14/2024	1	89
_	Phase 4	Concrete Slabs	6/17/2024	6/19/2024	3	-
2	Phase 4	Basement Slab Preparation	6/17/2024	6/17/2024	1	90
7	Phase 4	Pour Basement Slab	6/17/2024	6/17/2024	1	91
8	Phase 4	Garage Slab Preparation	6/17/2024	6/17/2024	1	90
9	Phase 4	Pour Garage Slab	6/17/2024	6/17/2024	1	98
20	Phase 4	Termite Treatment Basement Slab	6/18/2024	6/18/2024	1	97
)1)2	Phase 4	Termite Treatment Garage Slab	6/18/2024	6/18/2024	1	99
)2)3	Phase 4 Phase 4	Basement Slab Inspection Garage Slab Inspection	6/19/2024	6/19/2024	1	100 101
)3)4	Phase 4 Phase 4	Draw #2 Second Floor	6/19/2024 6/19/2024	6/19/2024 7/8/2024	14	101
)4)5	Phase 4 Phase 4	Order: HVAC Materials	6/19/2024	6/19/2024	14	
)6)6	Phase 4 Phase 4	2nd Floor Deck Framing	6/19/2024	6/27/2024	7	81
)6)7	Phase 4 Phase 4	2nd Floor Deck Framing 2nd Floor Wall Framing	6/19/2024	7/8/2024	14	81
.,	Phase 4	Roof Framing	7/9/2024	8/9/2024	23	02
08	Phase 4	Frame Roof	7/9/2024	7/26/2024	14	86, 106, 107
09	Phase 4	Install: Roof Plywood	7/29/2024	8/6/2024	7	108
10	Phase 4	Install: Roofing Paper	8/7/2024	8/7/2024	1	100
		Install: Roof Shingles	8/8/2024	8/9/2024	2	110
10	Phase 4					

ltem	Phases	Phases / Tasks	Start	End	Duration (Working Days)	Dependencies
	Phase 5	H.V.A.C.	6/19/2024	8/19/2024	37	
113	Phase 5	HVAC Layout & Measure	8/14/2024	8/14/2024	1	106, 107
114	Phase 5	Delivery: HVAC Materials	6/19/2024	7/8/2024	14	105
115	Phase 5	HVAC Rough-In	8/14/2024	8/19/2024	4	113, 114
116	Phase 5	Draw #4 (Roof, windows, doors)	8/19/2024	8/19/2024	1	108-111, 112
117	Phase 5	Order: Electric Panel & other Electric Materials	8/19/2024	8/19/2024	1	115
118	Phase 5	Order: Exterior Siding and Trim	8/19/2024	8/19/2024	1	115
119	Phase 5	Order: Fireplace Materials	8/19/2024	8/19/2024	1	115
	Phase 5	Electric Rough-in	8/20/2024	9/20/2024	24	
120	Phase 5	Set Electric Boxes	8/20/2024	8/20/2024	1	116
121	Phase 5	Delivery: Exterior Siding and Trim Materials	8/20/2024	8/20/2024	1	117
122	Phase 5	Siding	8/21/2024	8/27/2024	5	120
123	Phase 5	Install: Electric Service Panel	8/28/2024	8/28/2024	1	116
124	Phase 5	Electrical Walk-Through	8/28/2024	8/28/2024	1	119, 122
125	Phase 5	HVAC Set Indoor Units	8/28/2024	8/28/2024	1	115
126	Phase 5	HVAC - Finish	8/28/2024	9/3/2024	5	114
127	Phase 5	Plumbing Layout	9/4/2024	9/5/2024	2	124
128	Phase 5	Exterior Trim	9/4/2024	9/10/2024	5	120
129	Phase 5	Fire Sprinkler - Rough	9/6/2024	9/9/2024	2	127
130	Phase 5	Plumbing Rough-In	9/6/2024	9/12/2024	5	126
131	Phase 5	Plumbing - Top Out	9/13/2024	9/17/2024	3	129
132	Phase 5	HVAC Temporary Heat	9/18/2024	9/19/2024	2	125
133	Phase 5	County Plumbing Rough-In Insp.	9/20/2024	9/20/2024	1	130
	Phase 5	Specialty Rough-ins	9/20/2024	9/25/2024	4	
134	Phase 5	Order: Exterior Hot Tub - Bullfrog Model r8l	9/20/2024	9/20/2024	1	133
135	Phase 5	Order: Insulation	9/20/2024	9/20/2024	1	133
136	Phase 5	Order: Drywall	9/20/2024	9/20/2024	1	133
137	Phase 5	Central Vacuum Rough-In	9/20/2024	9/24/2024	3	123
138	Phase 5	Alarm System Rough-In	9/20/2024	9/23/2024	2	123
139	Phase 5	Telephone System Rough-In	9/25/2024	9/25/2024	1	123
140	Phase 5	Television System Rough-In	9/25/2024	9/25/2024	1	123
141	Phase 5	Audio Visual Rough-In	9/25/2024	9/25/2024	1	123
142	Phase 5	County Electrical Inspection	9/25/2024	9/25/2024	1	123, 136-140
143	Phase 5	Draw #5 (Rough-ins complete)	9/20/2024	10/9/2024	14	
144	Phase 5	County Framing Inspection	9/26/2024	9/26/2024	1	77-141
145	Phase 5	Delivery: Hot Tub	9/20/2024	10/9/2024	14	133
146	Phase 5	Delivery: Insulation	9/20/2024	10/9/2024	14	134
147	Phase 5	Delivery: Drywall	9/20/2024	10/9/2024	14	135

Item	Phases	Phases / Tasks	Start	End	Duration (Working Days)	Dependencies
	Phase 6	Insulation	10/10/2024	10/14/2024	3	
148	Phase 6	Caulk & Air Seal	10/10/2024	10/11/2024	2	145
149	Phase 6	Draft & Fire Stop	10/10/2024	10/11/2024	2	145
150	Phase 6	Batt Insulation	10/10/2024	10/11/2024	2	145
151	Phase 6	County Insulation Inspection	10/14/2024	10/14/2024	1	147, 148, 149
152	Phase 6	BGE Energy Wise Inspection	10/14/2024	10/14/2024	1	147, 148, 149
	Phase 6	Drywall	10/14/2024	11/4/2024	16	
153	Phase 6	Order: Paint	10/14/2024	10/14/2024	1	
154	Phase 6	Order: Ceramic Tile	10/14/2024	10/14/2024	1	
155	Phase 6	Stock Drywall	10/14/2024	10/14/2024	1	146
156	Phase 6	Hang Drywall	10/15/2024	10/21/2024	5	150, 151, 153
157	Phase 6	Remove Scrap Drywall	10/22/2024	10/22/2024	1	154
158	Phase 6	Delivery: Paint	10/14/2024	10/31/2024	14	152
159	Phase 6	Tape and Finish Drywall	10/22/2024	10/24/2024	3	155
160	Phase 6	Sand Drywall	10/25/2024	10/31/2024	5	157
161	Phase 6	Drywall Point-Up	11/1/2024	11/4/2024	2	158
	Phase 6	Paint	11/4/2024	11/15/2024	10	
162	Phase 6	Prep Drywall for Prime Coat	11/4/2024	11/8/2024	5	160
163	Phase 6	Prime Paint Drywall	11/11/2024	11/15/2024	5	161
	Phase 6	Exterior Landscaping	10/14/2024	11/4/2024		
164	Phase 6	Delivery: Ceramic Tile	10/14/2024	10/31/2024	14	153
165	Phase 6	Rough Final Grade	11/1/2024	11/4/2024	2	44
100	Phase 6	Floor Finishes	11/1/2024	11/5/2024	3	
166	Phase 6	Install: Ceramic Tile Floor	11/1/2024	11/5/2024	3	163
467	Phase 6		11/5/2024	11/25/2024	15	
167	Phase 6	Order: Interior Trim	11/5/2024	11/5/2024	1	
168	Phase 6	Order: Wood Kitchen Cabinets	6/5/2024	11/5/2024	1	
169	Phase 6	Order: Appliances	11/5/2024	11/5/2024	1	
170	Phase 6	Order: Stone Countertops	11/5/2024	11/5/2024	1	
170	Phase 6	Patios	11/6/2024	11/8/2024	3	100
171 172	Phase 6 Phase 6	Switch & Plug Install: Interior Doors	11/6/2024	11/7/2024	2	123 85
172	Phase 6		11/6/2024	11/7/2024	2	166
173	Phase 6	Prep Trim for Prime Coat Delivery: Interior Trim	11/7/2024	11/8/2024 11/22/2024	14	166
174	Phase 6	Install: Interior Trim	11/5/2024 11/22/2024	11/22/2024	3	174
176	Phase 6	Porches	11/22/2024	11/13/2024	3	107
177	Phase 6	Decks	11/11/2024	11/15/2024	5	106
178	Phase 6	Prime Trim	11/12/2024	11/13/2024	2	175
179	Phase 6	Sidewalks	11/12/2024	11/14/2024	3	2/0
180	Phase 6	Delivery: Stone Countertops	11/5/2024	11/22/2024	14	169
181	Phase 6	Delivery: Wood Kitchen Cabinets	11/5/2024	11/22/2024	14	167
182	Phase 6	Install: Countertops	11/22/2024	11/22/2024	1	180
183	Phase 6	Install: Cabinetry	11/22/2024	11/25/2024	2	181
185	Phase 6	Draw #6 (Prime paint, cabs, doors)	11/26/2024	11/27/2024	2	
186	Phase 6	Draw #7 (Trim, furnace, hrdwd, tile, rails)	11/28/2024	12/6/2024	7	
187	Phase 6	Install: Appliances	11/28/2024	11/29/2024	2	168
188	Phase 6	Pave Driveway	12/2/2024	12/2/2024	1	65
189	Phase 6	Install: Hot Tub	12/2/2024	12/2/2024	1	144
190	Phase 6	Plumbing - Finish	12/3/2024	12/4/2024	2	132
191	Phase 6	Fire Sprinkler - Finish	12/3/2024	12/5/2024	3	128
192	Phase 6	1st Punch-out Interior Trim	12/4/2024	12/5/2024	2	175
193	Phase 6	Final Grade and Seed	12/5/2024	12/6/2024	2	164
	Phase 6	Order: Door and Bath Hardware	12/6/2024	12/6/2024	1	
194	Phase 6	Order: Grills & Registers for Paint	12/6/2024	12/6/2024	1	
195	Phase 6	Draw #8 (Plumbing & elec. trim, final paint)	12/9/2024	12/27/2024	15	
196	Phase 6	Final Building Inspection	12/9/2024	12/9/2024	1	164
197	Phase 6	Electric - Finish	12/9/2024	12/10/2024	2	154
198	Phase 6	Install: Hardwood Floor	12/11/2024	12/13/2024	3	183
	Phase 6	Caulk Exterior Windows & Doors	12/11/2024	12/23/2024	9	194
199			12/16/2024	12/17/2024	2	197
200	Phase 6	Install: Fixtures	12/10/2024	12/1//2024		137

					Duration	Dependencies
Item	Phases	Phases / Tasks	Start	End	(Working Days)	
	Phase 7	Hardware	12/30/2024	12/30/2024	1	
202	Phase 7	Door Hardware	12/30/2024	12/30/2024	1	201
203	Phase 7	Bath Hardware	12/30/2024	12/30/2024	1	201
	Phase 7	Cleaning	1/2/2024	1/3/2024	2	
204	Phase 7	Windows	1/2/2024	1/2/2024	1	199
205	Phase 7	Finish Coat Exterior Trim & Siding	1/2/2024	1/3/2024	2	199
	Phase 7	H.V.A.C. Trim	1/6/2024	1/7/2024	2	
206	Phase 7	Install: Grills & Registers for Paint	1/6/2024	1/6/2024	1	106
207	Phase 7	Set Outdoor Units	1/6/2024	1/6/2024	1	106
208	Phase 7	Mirrors	1/6/2024	1/6/2024	1	201
209	Phase 7	Shower Doors	1/7/2024	1/7/2024	1	201
210	Phase 7	Use & Occupancy Certificate	1/7/2024	1/7/2024	1	196
211	Phase 7	First Walk-Through	1/7/2024	1/7/2024	1	110
212	Phase 7	Draw #11 (Final payment per contract)	1/7/2024	1/7/2024	1	111
	Phase 7	Final Punch-Out	1/8/2024	1/9/2024	2	
213	Phase 7	Punch Out Walk-Through List	1/8/2024	1/8/2024	1	111
214	Phase 7	Rough Clean	1/8/2024	1/9/2024	2	113
	Phase 7	Plumbing Trim	1/9/2024	2/4/2024	19	
		Order: Carpet	1/9/2024	1/9/2024	1	
215	Phase 7	Set Fixtures	1/10/2024	1/14/2024	3	200
216	Phase 7	Sand, Stain, Seal Hardwood	1/10/2024	1/20/2024	7	198
217	Phase 7	Trim and Adjust Doors	1/10/2024	1/10/2024	1	199
218	Phase 7	Connect Appliances	1/13/2024	1/13/2024	1	187
219	Phase 7	Plumbing - Finish	1/13/2024	1/14/2024	2	118
220	Phase 7	County Final Plumbing Inspection	1/15/2024	1/15/2024	1	119
221	Phase 7	Delivery: Carpet	1/9/2024	1/28/2024	14	121
222	Phase 7	Install Carpet	1/28/2024	1/29/2024	2	122
223	Phase 7	Final Coat Hardwood	1/30/2024	1/31/2024	2	116
224	Phase 7	Paint Touch-up	2/3/2024	2/4/2024	2	113
	Phase 7	Exterior Finishes	2/5/2024	2/6/2024	2	
225	Phase 7	Final Clean	2/5/2024	2/6/2024	2	125
	Phase 7	Final Walk-Through				
	Phase 7	Move-In				

Safety Plan

- By OSHA's and our standards, every employee has a right to adequate PPE (Personal Protection Equipment).
- Construction-site safety training will also be administered in order to ensure all workers are educated on how to minimize workplace injuries or even fatalities.

- 3. Once a permit application is accepted, the following generally describes our plan review process:
 - The types of plan review assigned to your application will depend on several factors, such as, the permit type, scope of work and project location. Typical plan reviews for new construction and additions:

Building - reviews the design of the building, including structural, trades, and Wildland Urban Interface.

Fire Safety - reviews fire sprinklers, alarms, and other suppression systems, emergency lighting and evacuation plans.

<u>Community Code Compliance</u> - reviews Construction Mitigation Plan, Limits of Disturbance, and Erosion Control.

Engineering - reviews work within the public right-of-way, utilities, drainage, and grading.

Planning - reviews plans for compliance with zoning regulations, such as setbacks, building height, design, and if applicable, building pad limits.

- When all initial reviews are done, the applicant will receive an approval or conditional approval notification from each assigned plan review.
- The plan review process is complete when all reviews are signed off and approved.
- 4. Get your permit!
 - Pay the permit fees through the <u>Finance Department</u>; then provide proof of payment to the Building Department.
 - Finally, print your approved plans and permit from MCI.

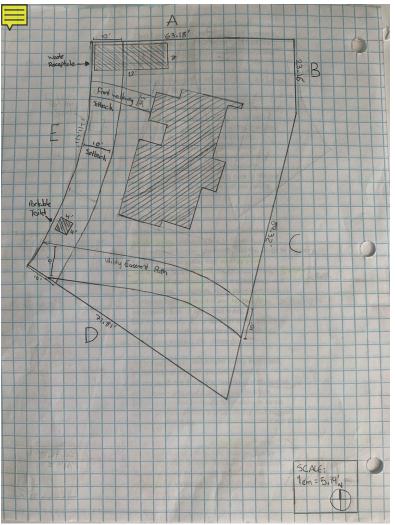
My permit is issued, what's next?

- Review the Conditional Approval and Deferred Submittal Items form that is attached to your Approved plan set. Submit all items indicating they be submitted before scheduling a Limits of Disturbance (LOD) inspection.
- Schedule an LOD inspection **and** schedule a Pre-Construction meeting through the Building Department (435) 615-5101.
- With a passing LOD inspection, construction can begin.
- See <u>Building Inspections FAQ's</u> page to schedule inspections.

(Via https://www.parkcity.org/departments/building-department/building-permit-faq-s)

Inspections will be performed after completion and self-review of each required inspection
phase. Should there be any reason we do not pass, the relevant trades will have been scheduled
to be on-site near the time of inspection so we can quickly resolve issues and get approved to
keep the construction process on time.

Lot Plan



General Site Management / Utilities Documentation

Refer to the Lot Plan to show locations.

Waste Management:

Bumper Dump Waste & Recycling

https://www.bumperdump.net 843 S Main Street, Heber City, UT 84032 Phone: 435-654-7488

- You can keep a dumpster rental for as long as you need. We do have long-term rental charges after seven days and after 30 days.
- A dumpster can sit on an incline up to 15 degrees. Our driver will make the final decision on whether a dumpster can be safely placed.

- There is no need for you to be home during your delivery or pickup. Just ensure that the area where you want your dumpster placed is clear before delivery.
- Call (435)654-7488 to schedule dumpster pick up

Portable Sanitation Company

Honey Bucket

https://honeybucket.com/construction/ Mail: 4267 W 850 S. Salt Lake City, Utah 84104

Phone: (866) 972-3115 Fax: (801) 972-9580

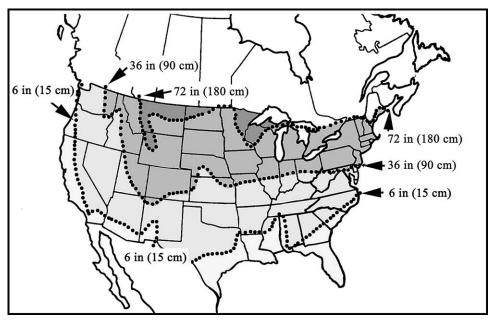
Minimum Service weekly:

- Evacuate the holding tank
- Remove debris
- Scrub and sanitize all surfaces, including the walls, urinal, toilet seat, and floor
- Add fresh water and deodorant solution to the tank
- Replenish supplies
- Complete or schedule needed repairs
- Sign and date the service log sticker in each unit.

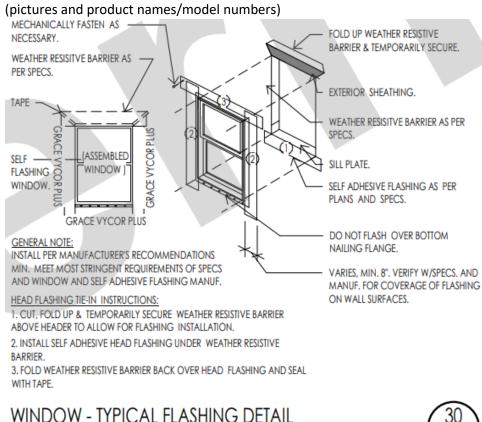
Utility Services

- Electrical contact information and procedures for temporary electrical hookup and permanent hookup. Include an application if available.
- Water & Sewer contact information and procedures for hookup. What are the tap fees? Is a grinder pump required for the Sewer? Include an application if available.
- Gas if a gas hookup is required, include the contact information. Is it natural piped-in gas, or is it propane requiring an on-site tank? If it is an on-site tank, is it above ground or below ground? Who owns the tank (gas company or homeowner)?

FROST LINE MAP



Windows and Doors Documentation



WINDOW - TYPICAL FLASHING DETAIL

1 1/2" = 1'-0"

FIGURE D: WINDOW FLASHING DETAIL

WINDO	W SCHEDULE											WINDOWS ARE TYPICAL ON SCHEDULE. FOR SPECIFIC DETAIL REFERENCES, HEIGHTS, NOTES, ETC. SEE WINDOW GROUPS, ELEVATIONS AND DETAILS 4 & S/A603 FOR APPLICABLE DETAIL REFERENCES.
	WINDOW SCHEDULE											
	UNIT	SIZE						DETAIL		G	AZING	
MARK	WIDTH	HEIGHT	HEAD HEIGHT	OPERATION	MATERIAL	FINISH	HEAD	JAMB	SILL	THICKNESS	TYPE	COMMENTS
W003	3'-0"	2'-6"	10'-0"	FIXED	ALUMINUM	PAINT	21/A603	16/A603	22/A603	PER MANUFACTURER	CARDINAL 366 LOWe	TEMPERED
W004	9'-0"	9'-0"	8'-11*	DOOR SLIDER DOUBLE	ALUMINUM	PAINT	24/A504	22/A602	14/A602	PER MANUFACTURER	CARDINAL 366 LOWe	TEMPERED
W005	6'-0"	9'-0"	8'-11"	DOOR SLIDER DOUBLE	ALUMINUM	PAINT	11/A603	22/A602	14/A602	PER MANUFACTURER	CARDINAL 366 LOWe	TEMPERED
W006	9'-0"	9'-0"	8'-11"	DOOR SLIDER DOUBLE	ALUMINUM	PAINT	11/A603	22/A602	14/A602	PER MANUFACTURER	CARDINAL 366 LOWe	TEMPERED
W100	4'-6"	2'-6"	10'-0"	FIXED	ALUMINUM	PAINT	10/A603	16/A603	22/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W101	3'-0"	5'-0"	8'-0"	FIXED	ALUMINUM	PAINT	28/A603	16/A603	22/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W102	3'-0"	2'-0"	11'-0"	FIXED	ALUMINUM	PAINT	10/A603	16/A603	28/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W103	4'-0"	2'-0"	11'-0"	FIXED	ALUMINUM	PAINT	10/A603	16/A603	28/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W104	11'-10"	7-11*	7.11*	DOOR SLIDER TRIPLE	ALUMINUM	PAINT	28/A603	15/A603	26/A602	PER MANUFACTURER	CARDINAL 366 LOWe	TEMPERED
W105	4'-0"	6'-0"	9'-0"	CORNER WINDOW	ALUMINUM	PAINT	10/A603	17/A603	23/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W106	5'-0"	2'-0"	9'-0"	FIXED	ALUMINUM	PAINT	10/A603	16/A603	22/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W107	3'-0"	5'-0"	15'-0"	FIXED	ALUMINUM	PAINT	27/A603	16/A603	27/A603	PER MANUFACTURER	CARDINAL 366 LOWe	
W112	7'-10"	8'-0"	7.11*	DOOR SLIDER DOUBLE	ALUMINUM	PAINT	28/A603	28/A602	26/A602	PER MANUFACTURER	CARDINAL 366 LOWe	TEMPERED

A603

WINDOW SCHEDULE

Cabinets and Countertops

(pictures and product names/model numbers)

MILLWORK



Light Wood Custom Rift Sawn White Oak

MESH



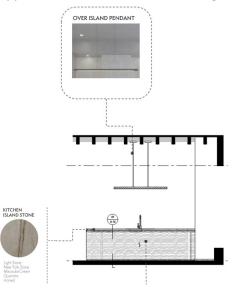


Light Mesh GKD Metal Omega 226 Color: Ev-2



Honed

Appendix J: Electrical fixtures, i.e., lights, etc. (pictures and product names/model numbers)



Plumbing Fixtures

Sinks, faucets, hot water heater, etc. (pictures and product names/model numbers)

KITCHEN

Plumbing







DISPOSAL





FINISH PACKAGE B BRUSHED NICKEL

Kallista P25200-00-CP

Kohler Stainless Steel K-5540-NA

SINK

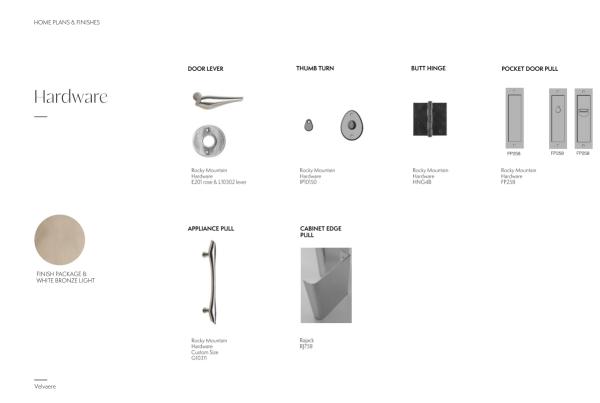
InSinkerator Gray TEN-1706

Velvaere

FIREPLACE

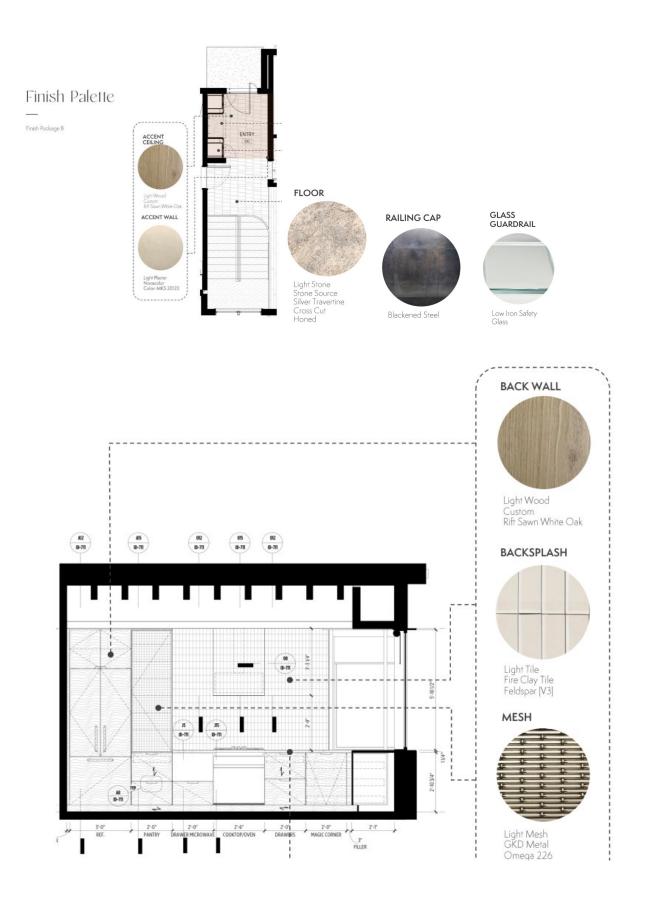


Stellar Hearth Products Fireplace Enlight Bay 48" x 30"



Finishes

HOME PLANS & FINISHES PLUMBING HARDWARE ACCENT WALL WOOD FLOOR / CEILING WALL/CEILING PAINT Finish Package: В Silver Metal Rocky Mountain Hardware White Bronze Light Light Plaster Novacolor Color: MKS 20123 Light Paint Ecos Paint VOC absorbing Color: 0017-Luna Moon Light Wood Craft Floor Custom White Oak Color: Custon _ Satin Nickel SHADE FABRIC (SHEER) DOORS/ TRIMS SHADE BRACKET Light Sheer Lutron Boucle Color: Off White Light Wood Custom Rift Sawn White Oak Lutron Palladiom Satin Nickel WINDOW TREATMENT UPGRADE OPTIONS: SHADE FABRIC (BLACKOUT) DRAPERY ROD DRAPERY FABRIC DRAPERY ROD Light Sheer JF Fabrics Youngstown 3258081 Light Blackout Lutron Boucle Blackout Color: Stone Light Metal Bradley Edge Natural Steel WelvAcchitecture & Design



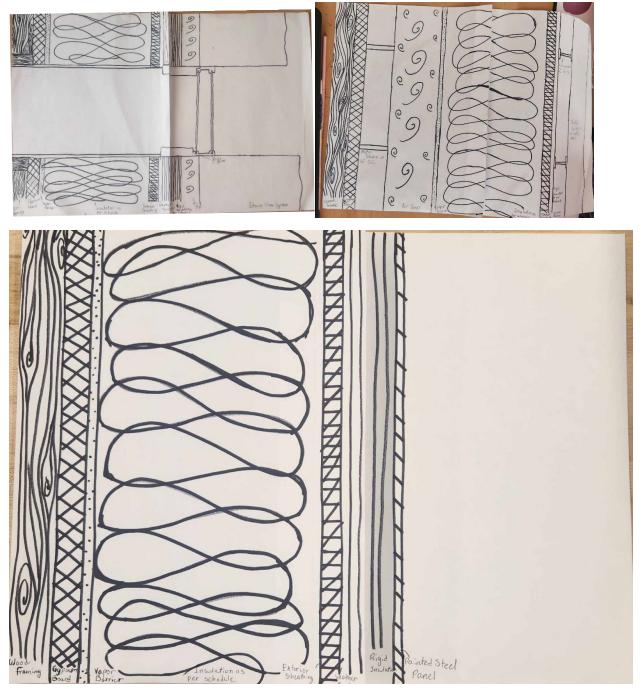


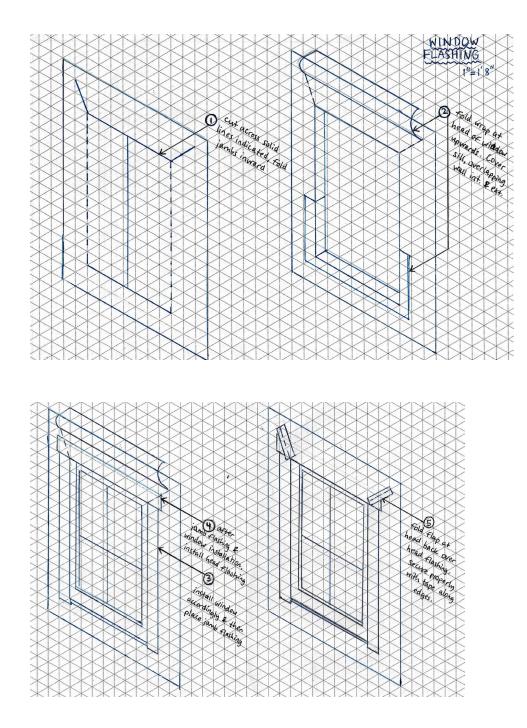
CARPET



Light Carpet SACCO Carpet Corp. Loyola Color: Godiva

Drawings





Honor Pledge



Student Chapters

NAHB Student Competition Secondary Programs Honor Pledge

To the best of my knowledge and belief, the information used in my team's solution to the competition is in accordance with the rules and guidelines of the NAHB Student Chapters Competition. On my honor, I have neither given nor received unauthorized assistance in the completion of this project.

Team (School) Name: ____Charles J. Colgan, Sr. High School

Team Members:

Print Name	Signature
Zhane' Blair	1 Alexandre
Rhea Butler	Rhea Butter
Ethan Reyes	Etter 2mg
Aurora Ramos	Hotelan

Alternate Members (Optional):

· · · · · · · · · · · · · · · · · · ·	
Print Name	Signature

Faculty Advisor/Coach:

Print Name	Signature
Timothy C. Mason	- thy C. Masa

This form is REQUIRED. Submit one (1) copy per team within your proposal submission.