

Project #16 – Classic



Madison Valley Ranch

Madison Valley Ranch



Participant Information:

Big Sky R-Control
Laurie Miller
15 Arden Drive
Belgrade, MT 59714
253-846-6033
laurie.miller@premiersips.com
www.bigskyrcontrol.com

Category:

Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.

Project Information:

Madison Valley Ranch
307 Jeffers Road
Ennis, MT 59729

Date completed: June 22, 2021

Dimensions: 2 story building.

8725 SF Total.

First floor 7,054 SF

Second Floor 1,671 SF

Total sq.ft.: 8,725 SF Total

Built by:

Martel Construction Inc
Joe Perrelli
1203 South Church Ave.
Bozeman, MT 59715
406-599-9485

Panels Manufactured by: Big Sky R-Control



Madison Valley Ranch



Designed by:
Cushing Terrell
Jimmy Talarico
411 E Main St #101
Bozeman, MT 59715
406-556-7100

Building use:

This building which has been named the Madison Lodge serves as the Main Lodge at the Madison Valley Ranch which is a destination experience for those with a passion for fly fishing, fine dining, and beautiful accommodations. The Madison Lodge has a commercial kitchen, pro shop, retail space, flexible meeting rooms, 6 guest suites, large group dining room, bar & lounge, and entertainment spaces.

SIP benefits for this job:

This project replaced their old Main Lodge on the site. From demolition to completion this project was done in only 8.5 months. This project would have normally been a 14 month build, but the owner did not want to lose a season so we developed a plan to fast track the project. SIPs enabled us to greatly reduce construction durations and costs. In addition we were able to dry-in the building much faster while providing a higher performing structure over conventional framing methods.

SIP wall thickness: 6 1/4" EPS

SIP roof thickness: 12 1/4"

Benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

In addition to the immense savings on schedule, the use of SIPs greatly reduced the lumber consumption and waste on this project versus traditional stick framing. Big Sky R Controls manufacturing methods allow for far more material optimization through panel nesting during the manufacturing process. The rapid and uncontrolled lumber price increases hit right when we started this project. Big Sky R Control had a purchase order for this project so they had already secured the integral panel lumber and raw goods to build this project which avoided thousands and thousands of dollars in material escalation charges. The labor savings in the field continued to benefit this project as the structure was able to be erected in roughly 30% less time.

Innovative design elements or structural engineering involved:

Pretty standard - custom timber trusses.

- Exterior was a cement siding meant to create the allusion of logs and to protect against fires...noncombustable.
- Holdowns in walls that tied floor systems together (not a great example though as this required significant lumber to be added to the walls in these locations)
- LVL lumber was laminated into some walls for roof ledger attachment so that no hardware was visible
- Roof panels had engineered lumber added to specific locations so that trusses could hide the un-even ridge line

HVAC:

VRF Systems

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