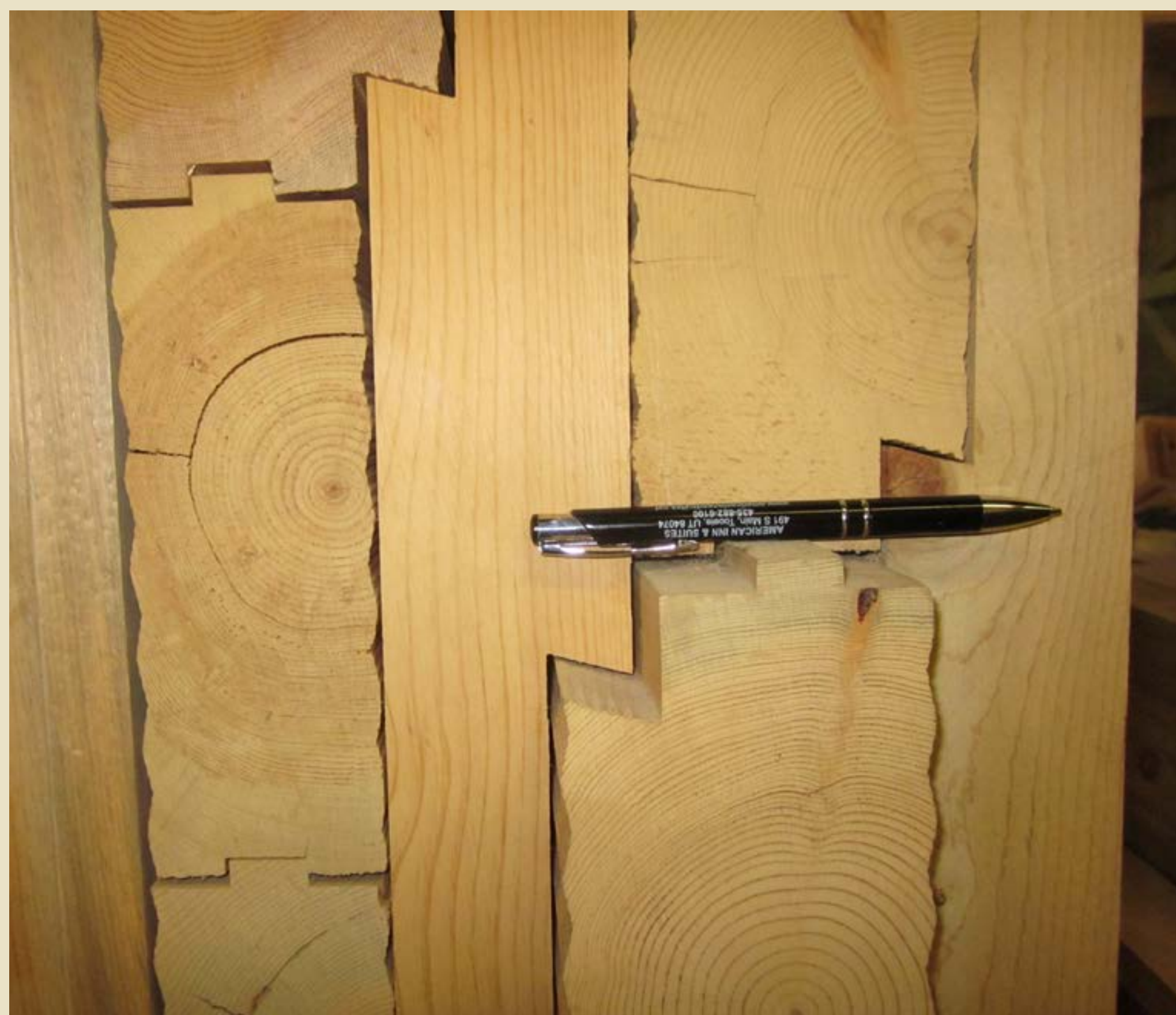


# Building a Holistic Extension Facility in an Interlocking Cross-Laminated Timber Building

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## What is Interlocking Cross-Laminated Timber ?



Cross Laminated Timber (CLT) walls are constructed from pieces of dimensional lumber that would be traditionally joined together, often using glues or hardware. Our Utah based partner, Euclid Timber Frames, has developed a new style of CLT, called ICLT or Interconnected Cross Laminated Timber, using only wood joinery, as shown in the photo above, to make the massive wood walls. Photo shows thickness of an actual wall.

## Benefits of Structures Built with ICLT

- Massive wood walls **sequester carbon** for the entire life of the building
- It takes substantially **less energy to build** ICLT when compared to concrete and steel, lowering the carbon footprint of ICLT from the start
- It takes substantially **less energy to heat and cool** than traditional buildings
- ICLT structures are **more fire resistant** than structures made with traditional two-by-four framing
- Far **less on-site construction time** with ICLT; the pieces are preassembled in the shop, this leads to fewer weather delays and increased worker safety

## Building Design



Featuring greenhouse characteristics, instructional kitchens, farm-to-fork teaching workshops, it will be the centerpiece of the Utah Botanical Center.



The completed structure will be a USU Extension Learning facility that will foster interdisciplinary Extension Programming on topics ranging from horticulture to agriculture and family sciences.



The Utah Biomass Resources Group partnered with the Utah Botanical Center and received a Wood Innovation Grant from the USDA Forest Service in 2015 for the design of an Interlocking Cross Laminated Timber building.

## Building Objective



Introducing visitors to this new construction style, this ICLT building will host underserved youth programming. Photo of completed ICLT building by Euclid Timber Frames. Note blue stain on interior that comes with beetle-killed timber.



The underlying objective is to use what is now considered waste wood, such as this beetle killed spruce in northern Utah.

## Building Location



The building will be constructed at the USU Botanical Garden, shown above, in Kaysville, Utah, about 20 minutes north of Salt Lake City and just off of I-15. This will be the first public Interlocking Cross Laminated Timber Building in Utah. Private funds are being raised for building construction.

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Scan to see the building flythrough

