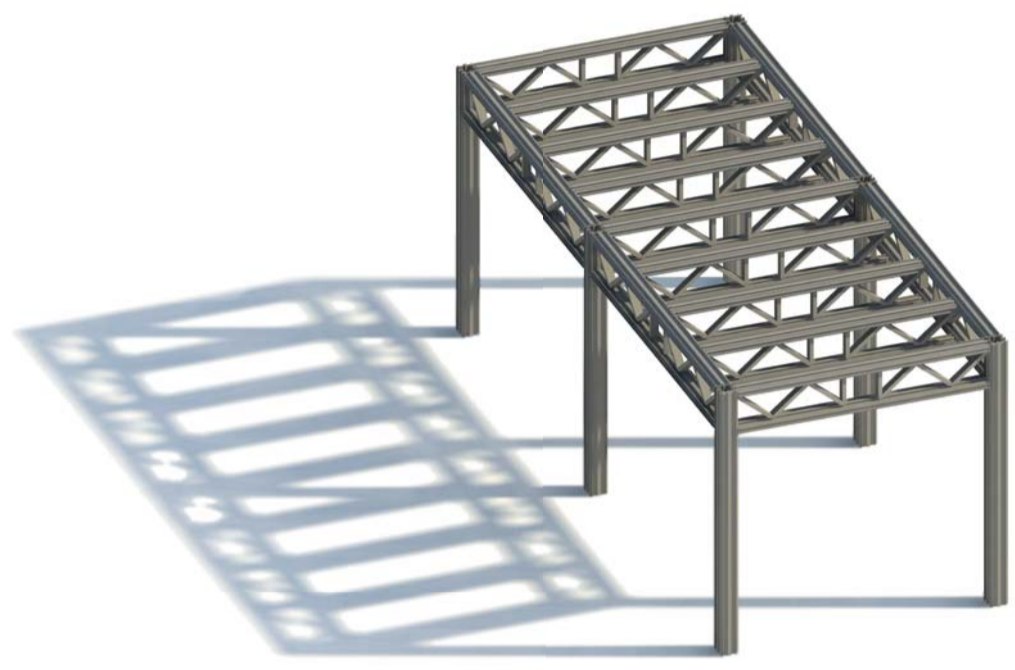
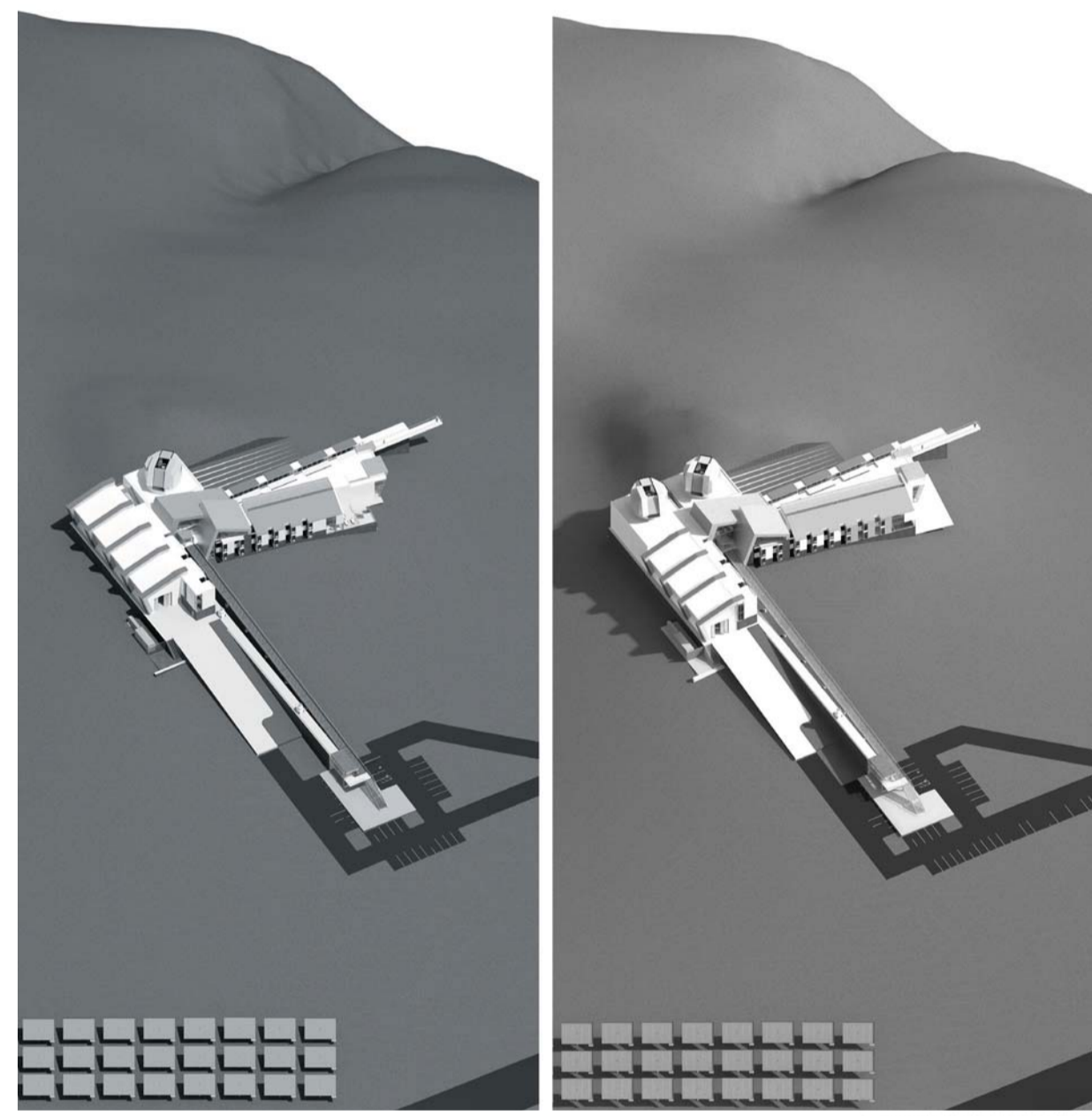


Regenerative Design



AI **Extruded Aluminum Structure**
 Light weight modular sections make construction quick and efficient.
 - Quick Additions
 - 100% Recyclable
 - Low Energy Manufacturing
 - Easy Deconstruction

Structural Adaptability

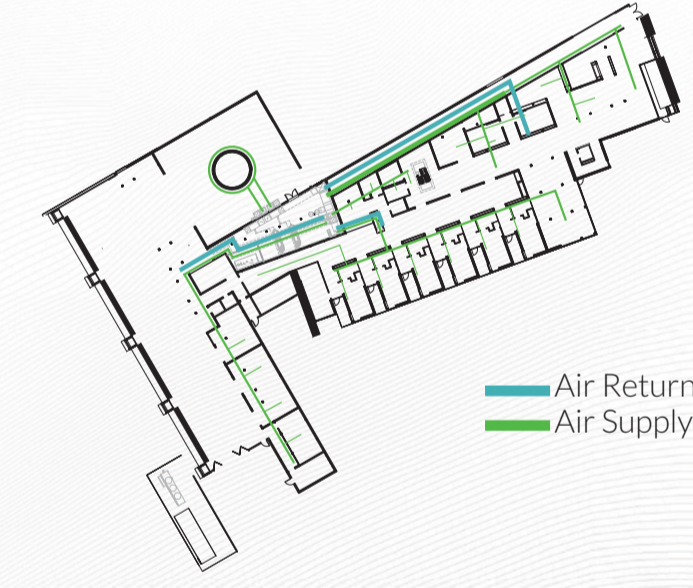


1&2 **Structural Adaptability**
 Phase 1 and Phase 2
 - Addition of 3m Telescope
 - 8 Observatory hotel units
 - Addition of garage bays
 - Easily and quickly manipulated

Passive/ Active Systems

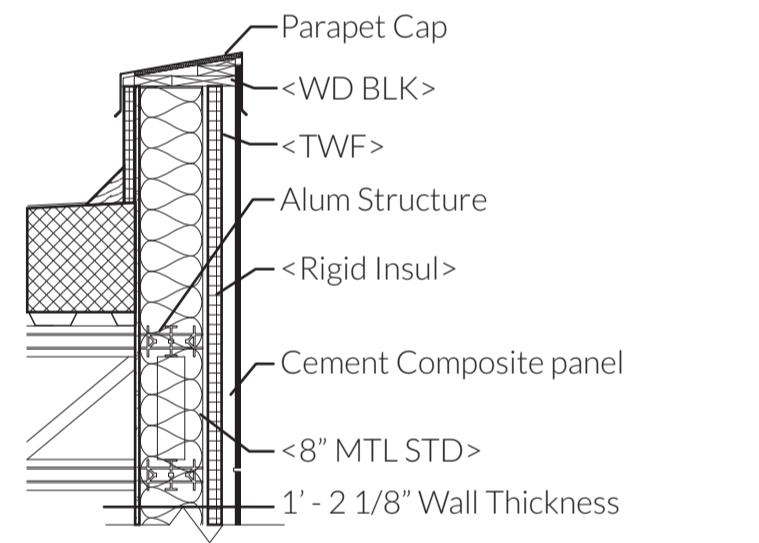


Living Wall System
 - Humidifies Living Environment
 - Revitalizes Oxygen
 - Aesthetically pleasing

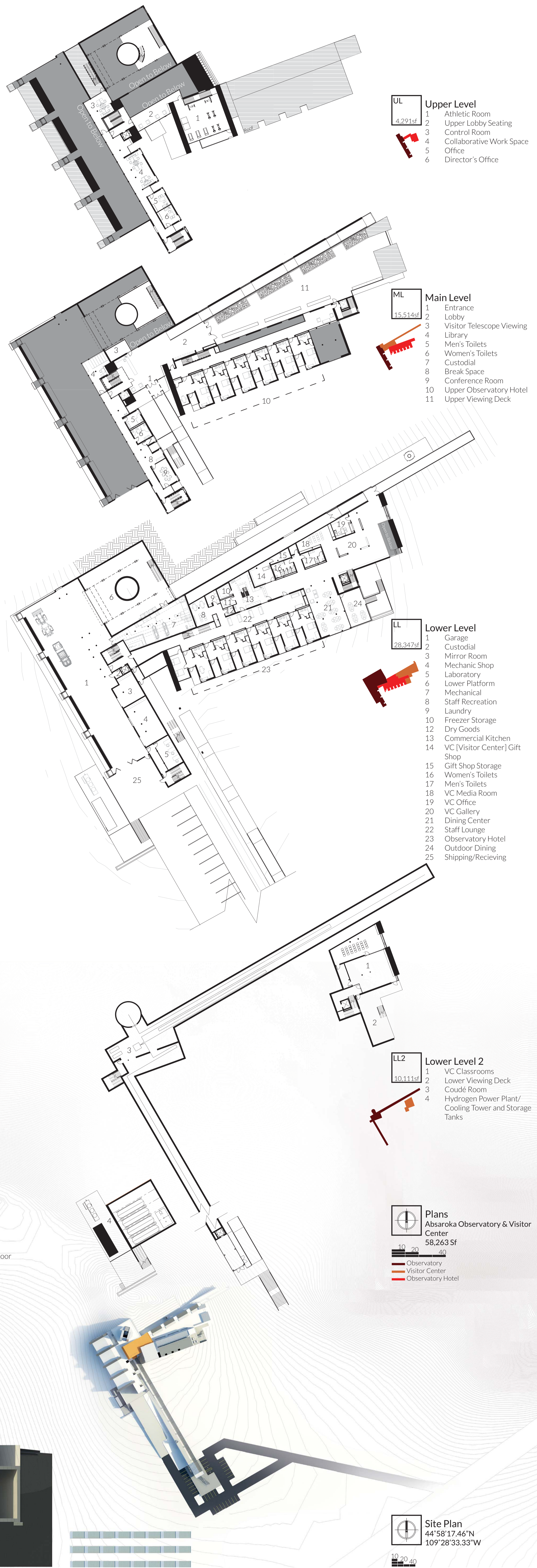
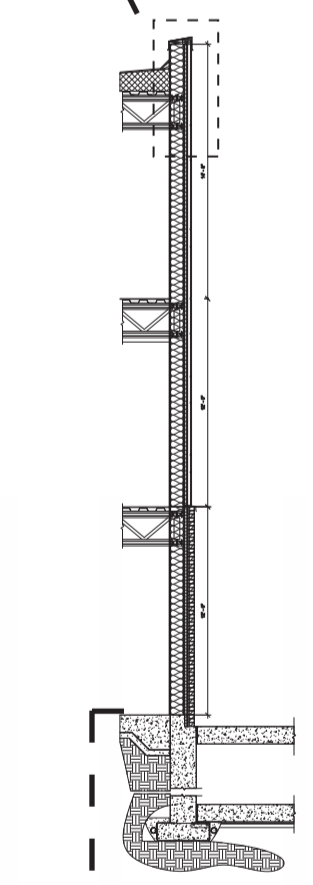


400 KW **Hydrogen Power Plant**
 - Zero Harmful Emissions
 - Quiet
 - Concentrated photovoltaic array provides initial energy.
 - Heat emissions used for radiant floor heating and cooling.
 - Natural gas back up system
 - 100% Off grid

Deconstruction



R55 **Swiss Pearl**
 Cement composite w/MTL STD backup
 - Low energy manufacturing
 - 100% recyclable
 - Easy deconstruction



THESIS PROBLEM STATEMENT

How can architecture adapt to the changing needs of astronomy research?

As astronomy changes over time so do the techniques it uses. Architecture can adapt to these changes as astronomy develops by reconstructing itself for the future needs of users and the instruments it holds.

Observatories can use regenerative design and deconstruction principles to remain relevant to future techniques/technologies and the developing culture of astronomy research. Using these principles will allow architecture to be flexible and adaptable to future advancements in astronomy.

Through A