

2017

## Sinatra Living: Technical Scope Summary

University of Nevada, Las Vegas. Solar Decathlon Team.

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### 3.4 TECHNICAL SCOPE SUMMARY

#### 3.4.1 PROJECT OBJECTIVE

To design and build an attractive, energy-efficient, and marketable home that changes the way retirees manage their health.

#### 3.4.2 MILESTONES

2016:

September - 100% Completion

2017:

January - Begin Construction

#### 3.4.2 DELIVERABLES

Schematic Design Summary

Computer Animated Walkthrough and Computer Generated Renderings

Building Information Model (BIM Model)

Project Manual

Jury Narratives

Audiovisual Presentation

Project Summary

Final Report

#### 3.4.4 SCOPE

The project consists of the proposed residence located at an undetermined location. The project is approximately 970 square feet of enclosed space with an adjacent courtyard and patio space of approximately 700 square feet. The proposed scope is to design and build the final house.

Please refer to the conceptual design package to identify the area of work. UNLV, in collaboration with local consultants, will provide architectural, interior design, landscape design, structural, mechanical, electrical, plumbing, and civil engineering services with this project. UNLV will coordinate with consultants and provide architectural backgrounds in DWG or RVT format for consultants to complete their required drawings.

#### 3.4.5 INTEGRATED DESIGN APPROACH

In order to accomplish our goals and aspirations, Team Las Vegas will be using an integrated project delivery approach in the design, planning, and construction phase of our Solar Decathlon house. By utilizing a team of experts in which everyone is on a level playing field, all team members will be able to collaborate at the same time as the project progresses. Unlike traditional linear project delivery methods, our team will be incorporating design requirements from social work and health science consultants throughout the development of the architecture and engineering of the house. Energy analysis will be This approach will help to realize a truly integrated building design and, with the aid of BIM software, we will be able to produce an execute a home that speaks not only to architecture but to the process of making it.