



# LIVING ROOF PROJECT

2014-2018 ENGINEERING CLUB



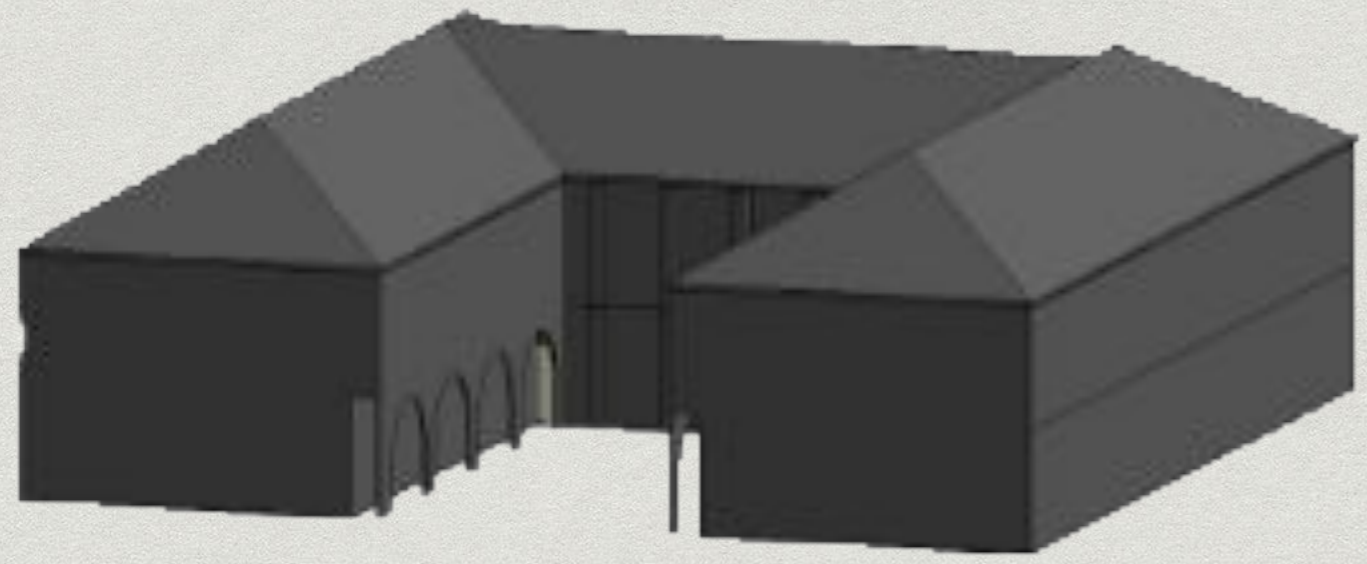
# What is a living roof?

A living roof or green roof by definition, is a roof of a building that is partially or completely covered with vegetation and a growing medium. Our idea not only includes foliage, but it will also be suitable for outdoor, educational events and activities.

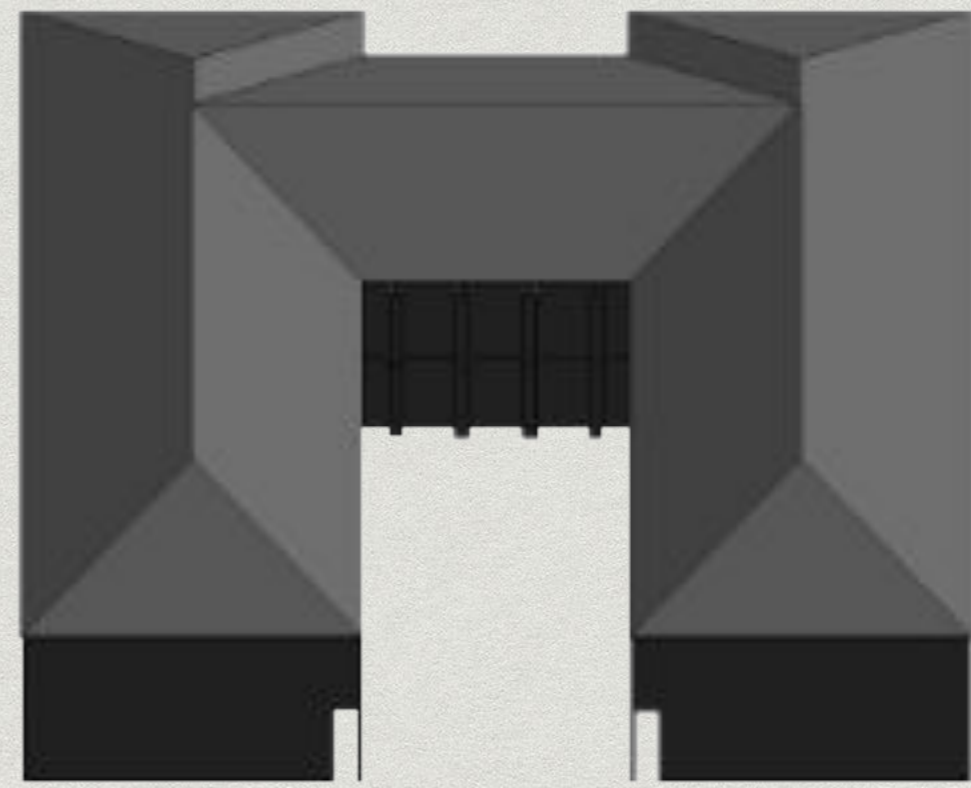




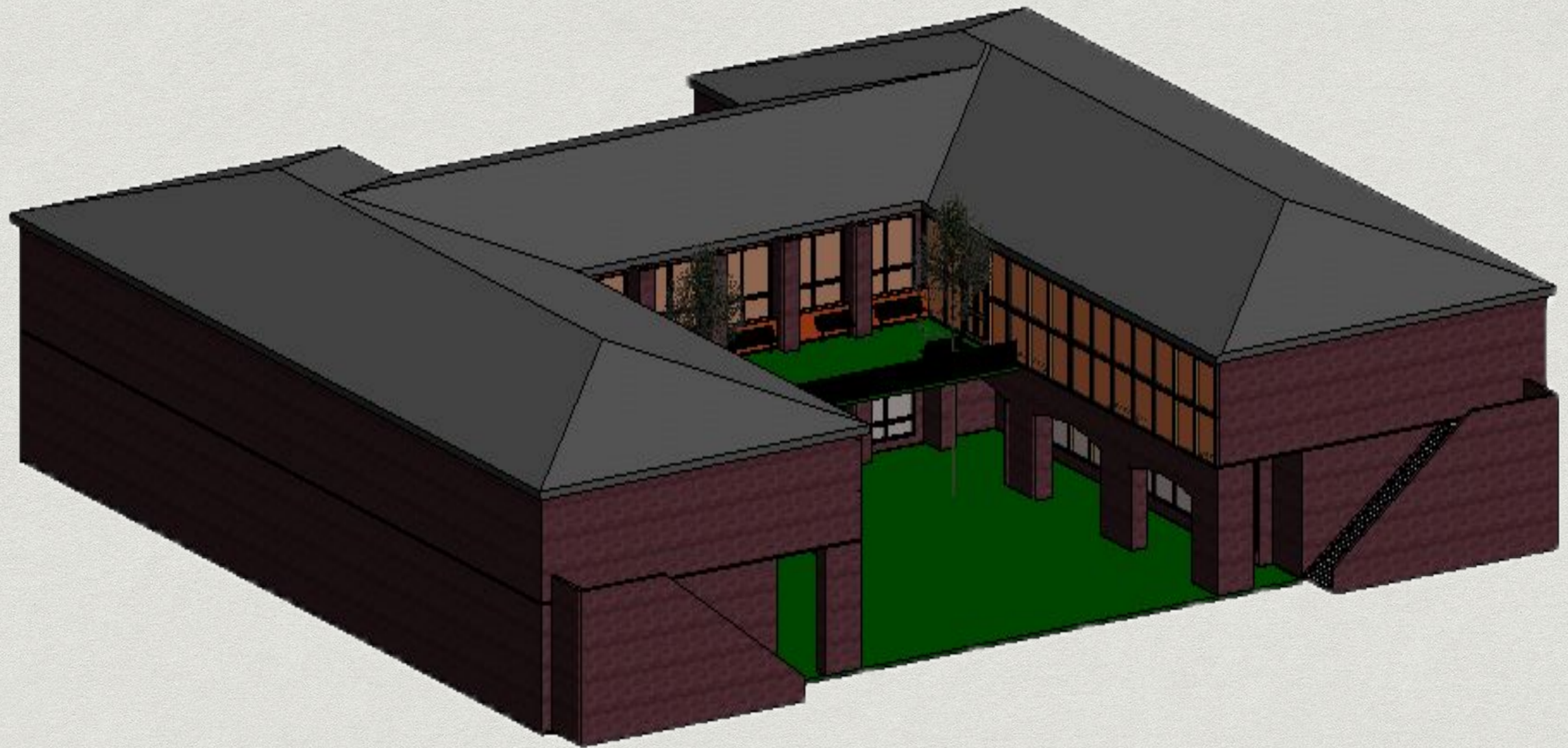
# Roy and Helen Hall Memorial Library



South Facing  
Courtyard  
(BEFORE)







South Facing Courtyard with  
Living Roof



# Rainwater Collection

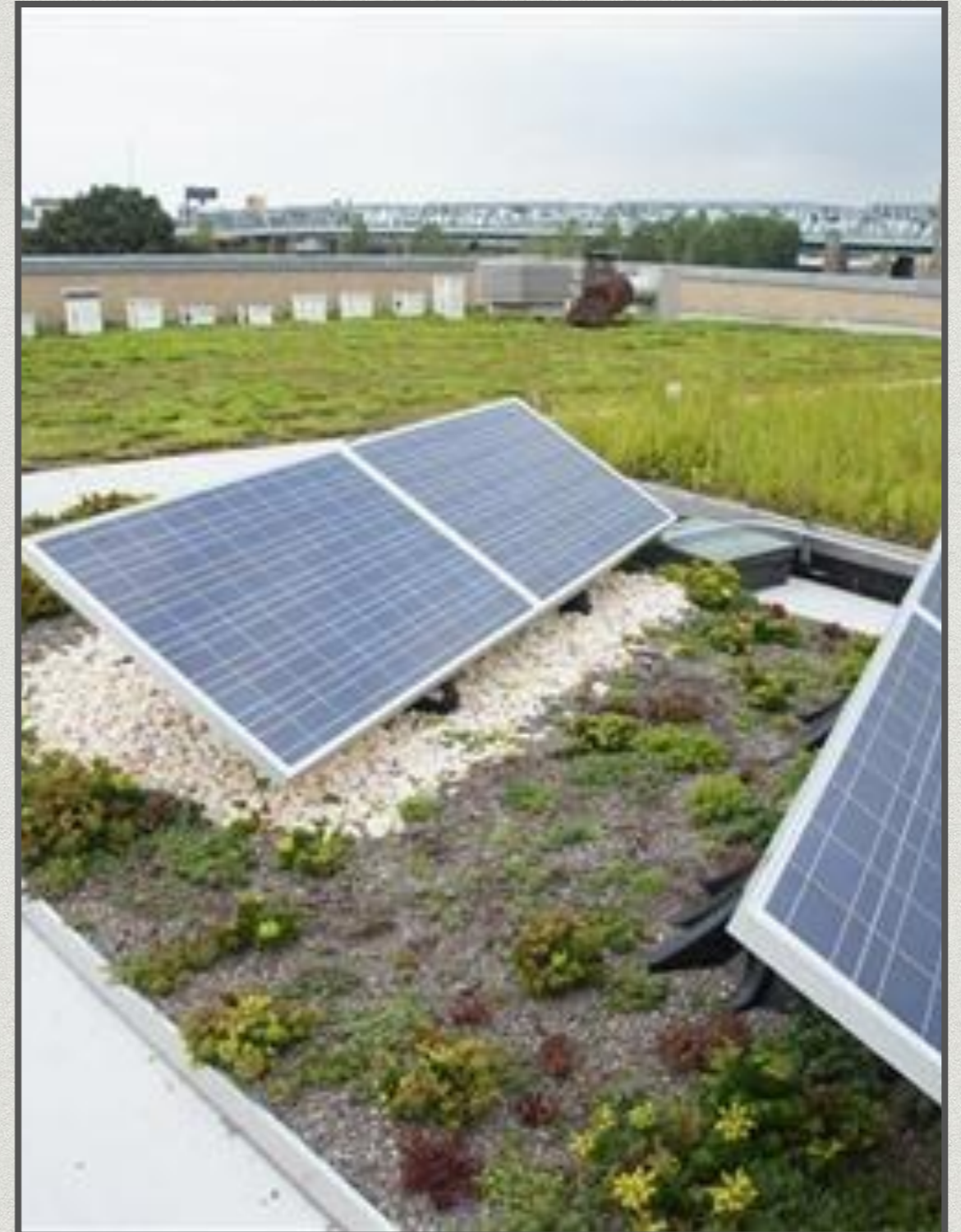
We are planning to collect rainwater runoff from the roof. The water will collect in a cistern, ready to be used for the Living Roof and planter boxes.





# Solar Panels

- 87 Solar Panels
- Nonintrusive solar panels secured by pavers
- Net Zero Energy Consumption
- Low maintenance





# Meet the Team



## seven-d-four Architecture

Architect : Kevin Dingman



Structural Engineer:

Trent Perkins

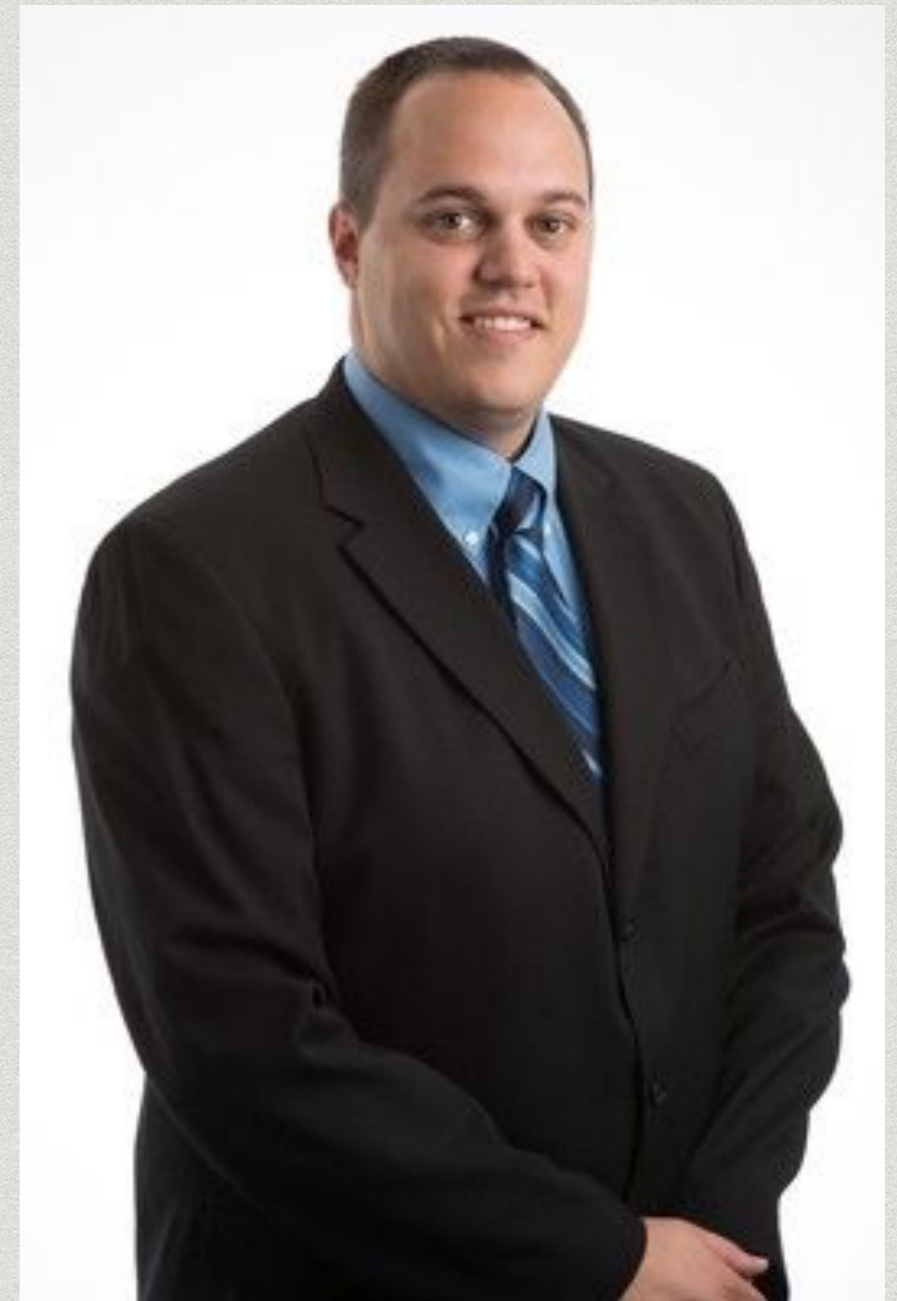




# MEP Engineer: Matt Henley



Engineering  
& Consulting





# Model of Sustainability

- Teaches about sustainability and green living
- Shows children that they make an impact
- Gives organizations educational opportunities
- Reduces footprint





# Phase 1: Structural

All Structural Components

Plumbing

Electrical Components

# Phase 2: Audio Visual

Stereo System

LED T.V.

Lighting



# Funding

- CMC \$103,000
- Green Mountain Energy \$247,000
- Bobby Lyle \$85,000
- Pogue Construction (Confirmed) \$80,000
- Susan and Bill Granberry \$25,000  
(Confirmed)
- Polyguard (Confirmed) \$20,000
- Allegion Doors \$3,000
- BEBO (Confirmed) \$16,000
- Engineering Club (Confirmed) \$2,000



# How Can You Help?

- A list of items we need to complete for City of McKinney approval
- Assurance that once we meet the needs of the library, building code, ADA requirements and funding that we will be able to build.