

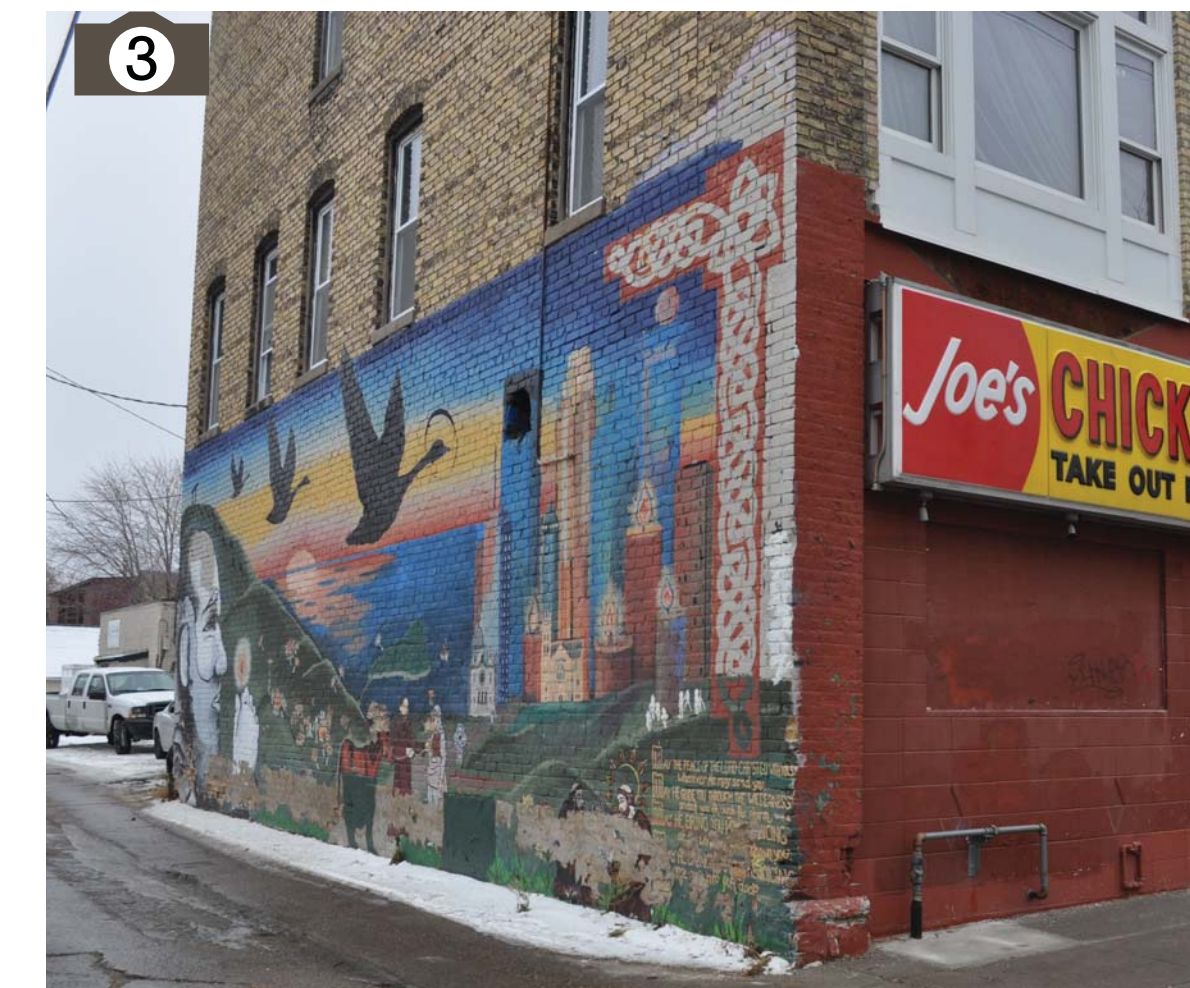
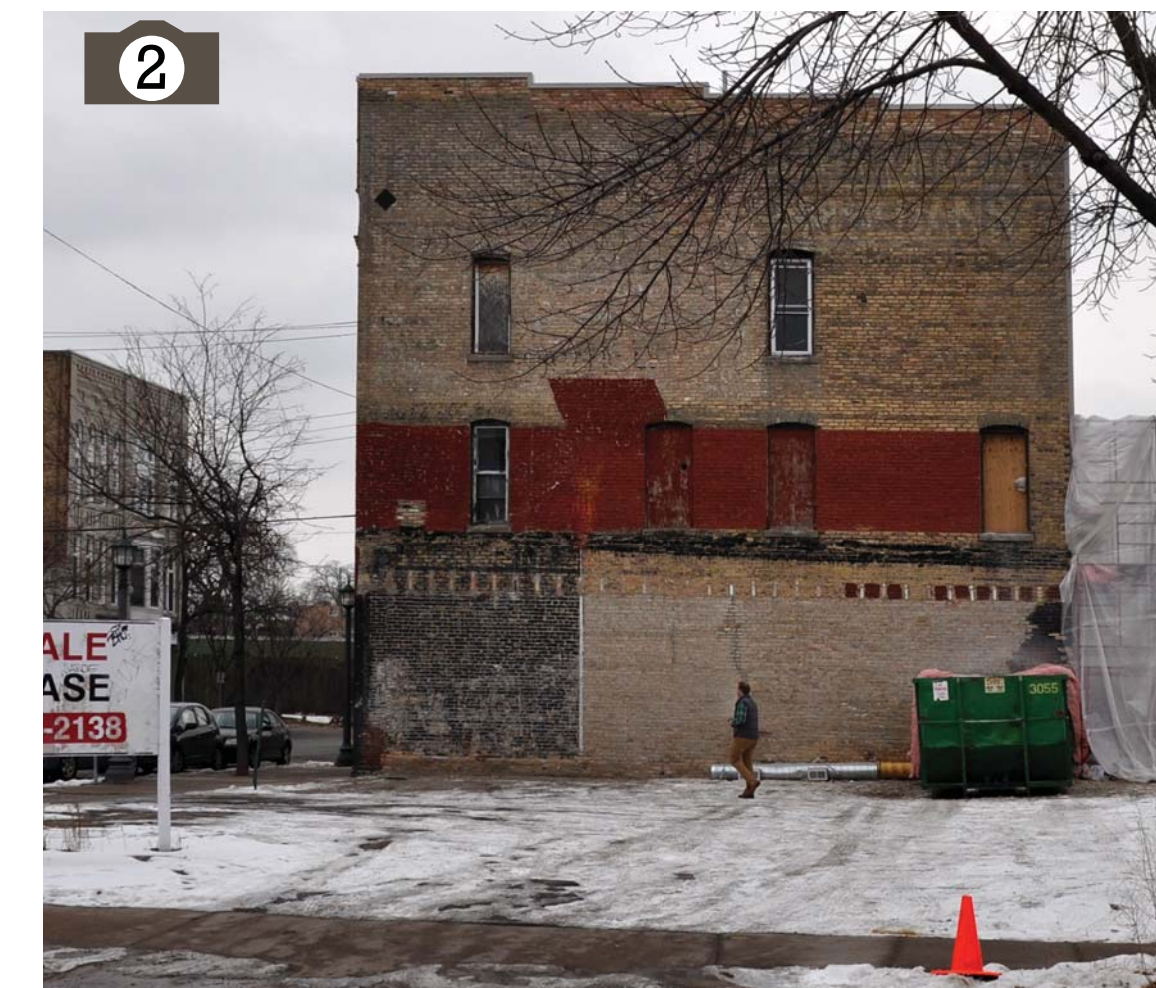
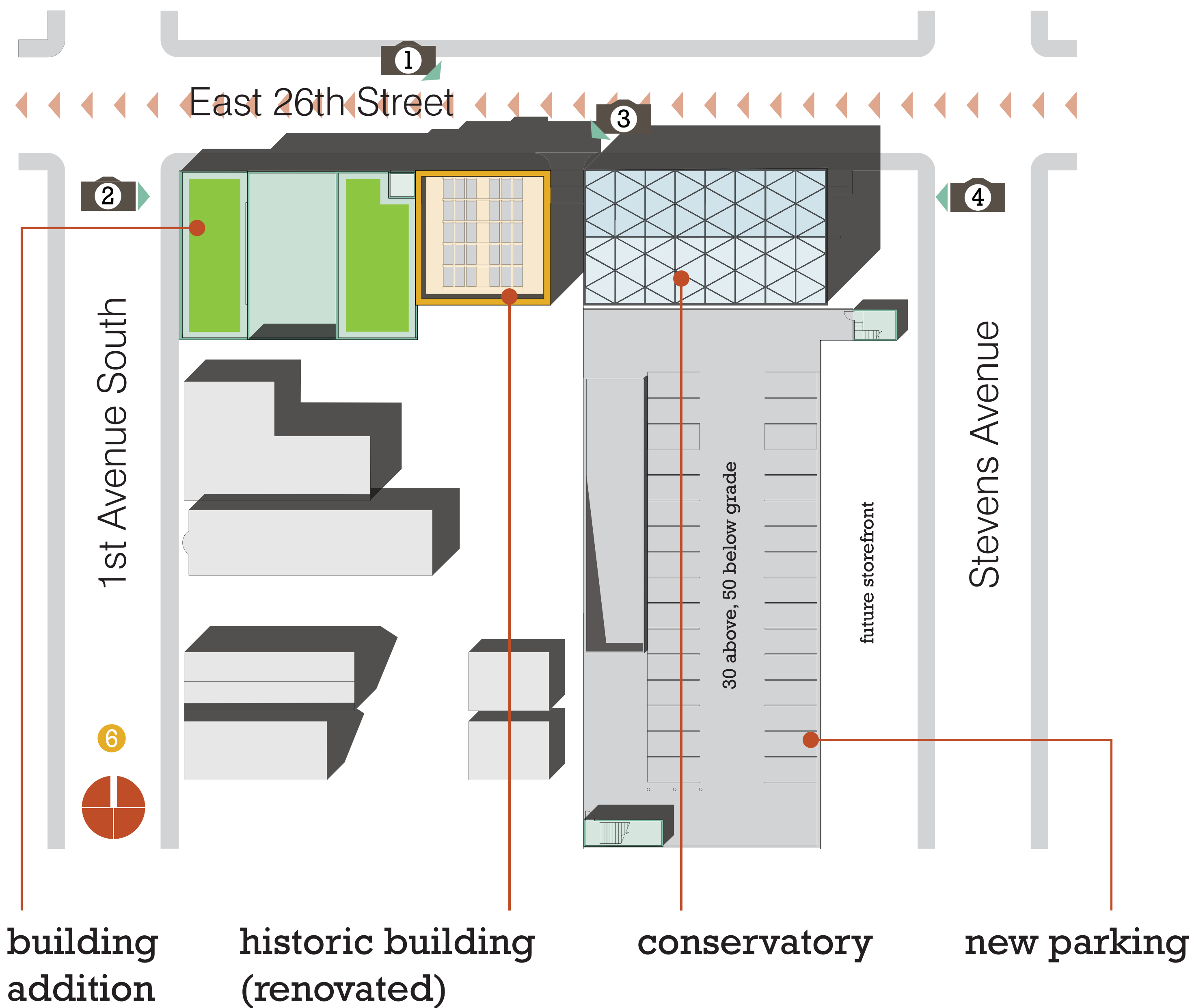
environmental stewardship

Burying 30 million feet of hardwood caskets and 1.6 million tons of concrete in vaults each year to sit indefinitely is not an acceptable use of resources or open space. The facility will connect users to green burial sites, will provide interment alternatives, will educate on sustainable funeral options, and will utilize natural energy flows in building operation and design.

- ① Alkaline hydrolysis cremation equipment
- ② Composting
- ③ Vegetation as insulation and sun shades
- ④ Material selection
- ⑤ Material reuse
- ⑥ Site selection - existing building, local infrastructure, and mass transit

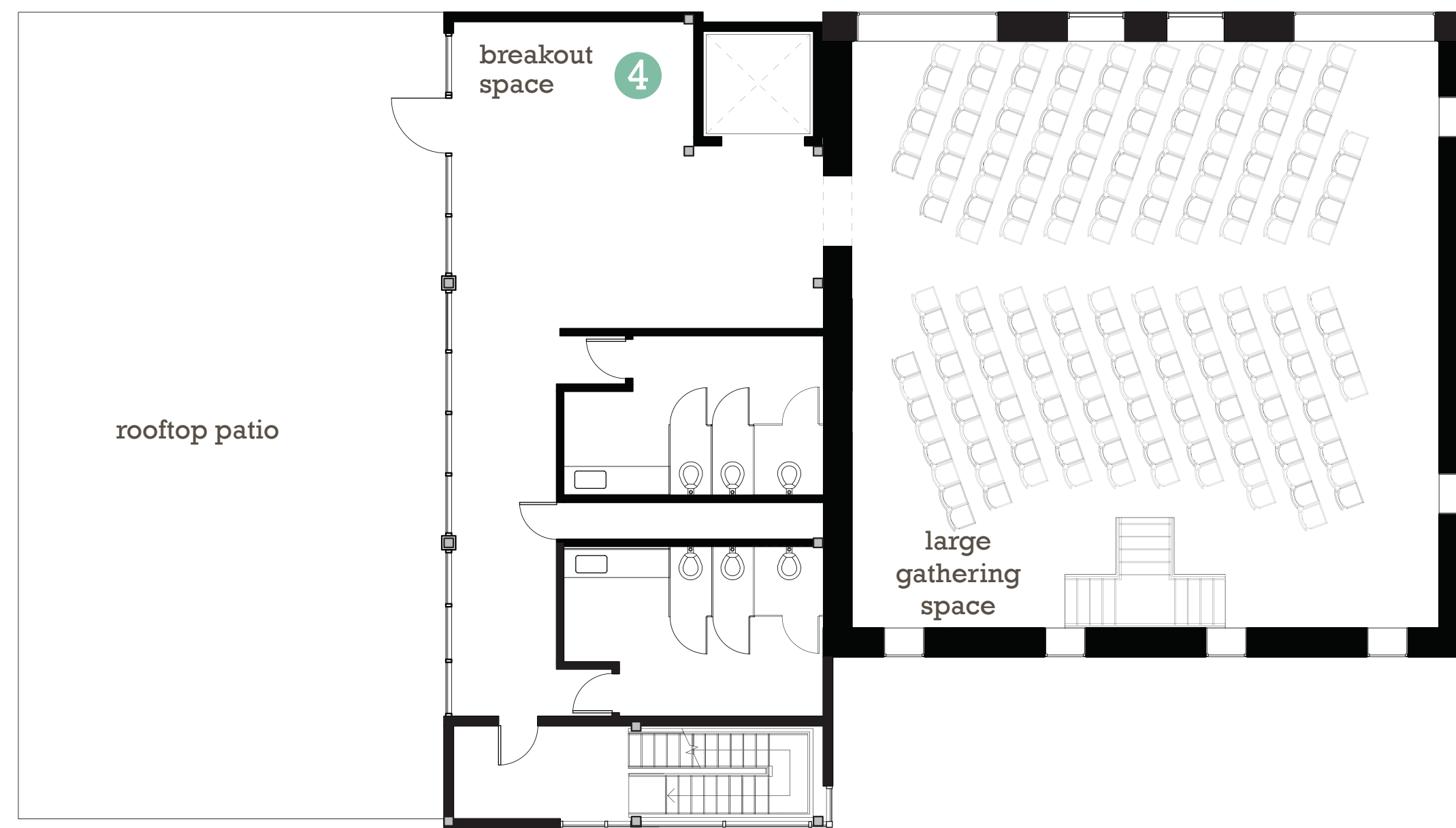
Thinking In Care

A plea for funeral homes and crematories to recognize the impact that the industry has on the environment and the user.

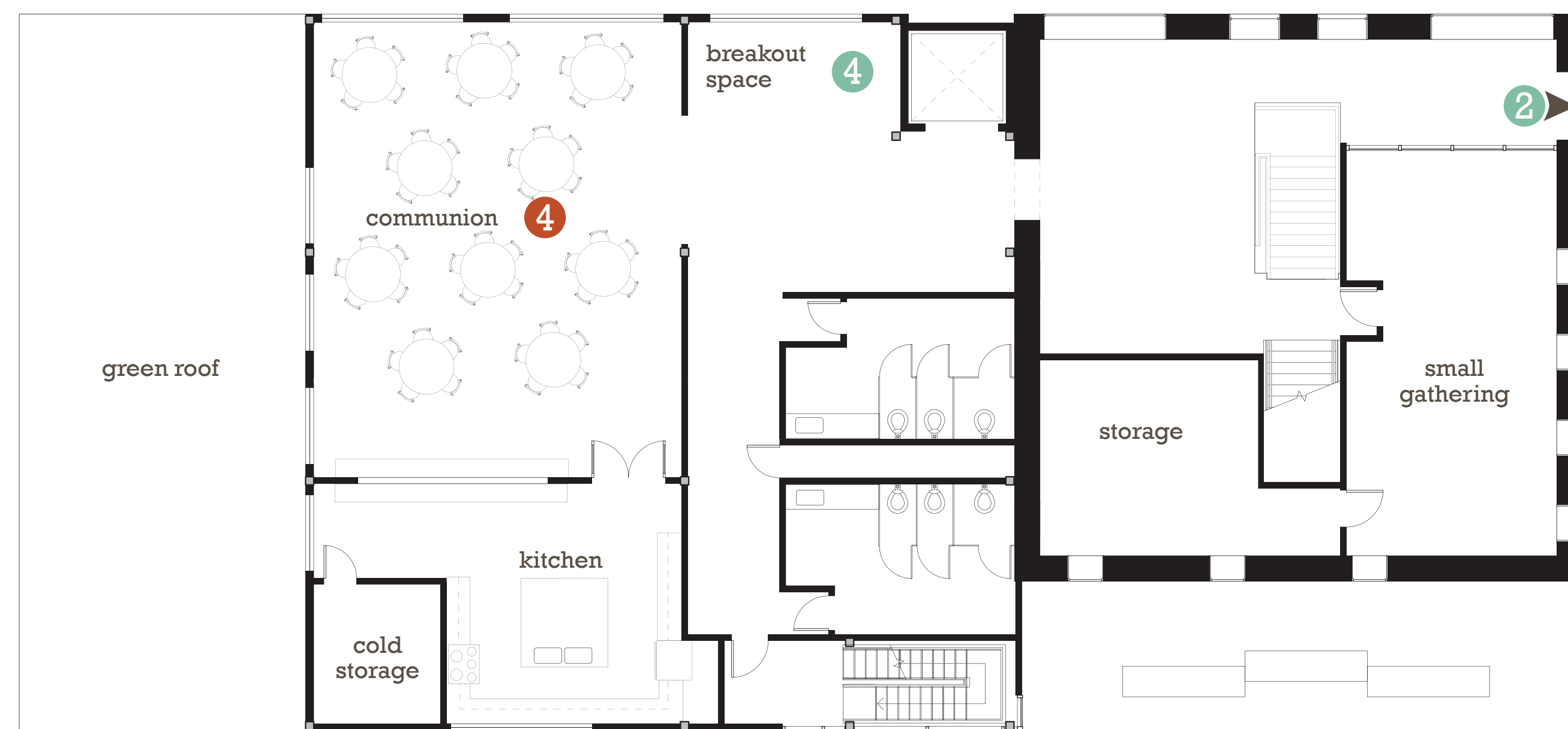


Repurposing an under utilized historic structure taps into the potential for beauty, elegance, and timelessness within the cycles of life and death; of growth and decline.

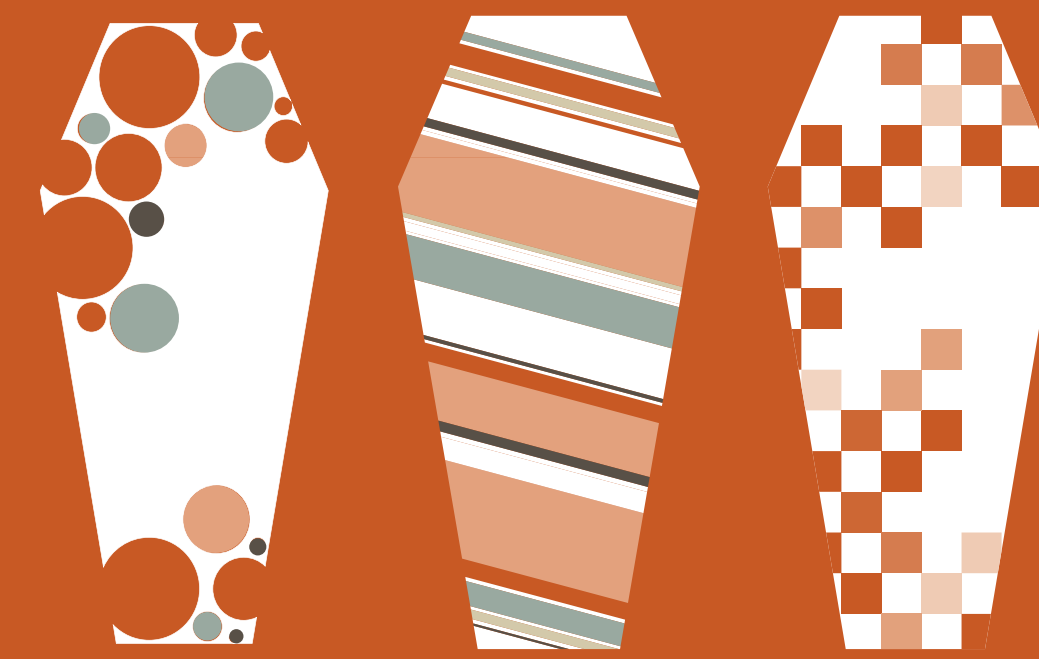
The building is located at 109 East 26th Street in Minneapolis, Minnesota. It was built in 1888 in a commercial Gothic style. Some sources refer to it as the McCullough building, but information about its early uses and architect are scarce.



Third floor plan
1/8" = 1'-0"



Second floor plan
1/8" = 1'-0"

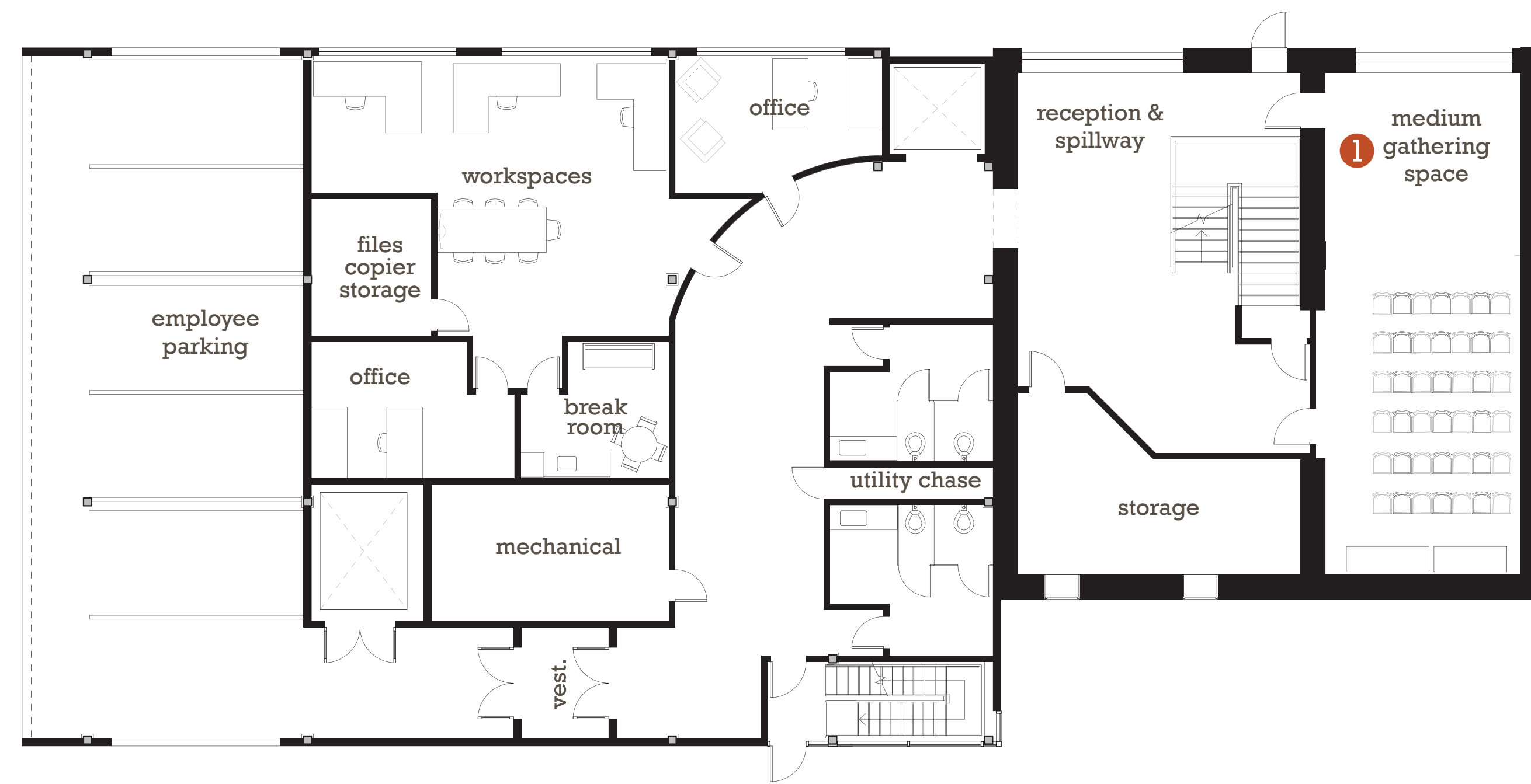


individuality

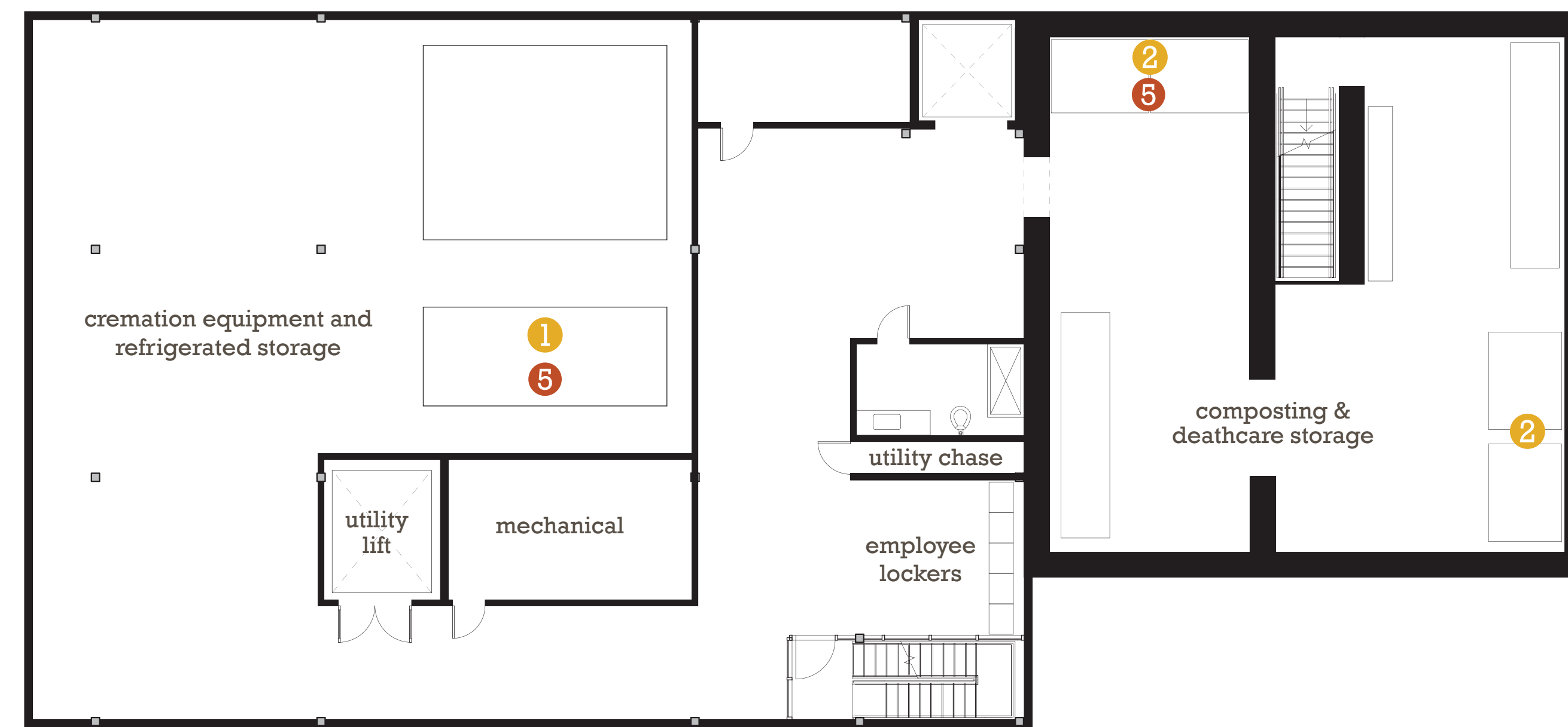
Especially as our world expands and diversifies, the funeral planning process can be more fulfilling and meaningful if users are given the ability to choose beyond a small set of traditional options. The facility features flexible architecture that allows for celebrations to take any shape.

- ① Gathering room as an at-home funeral training workshop
- ② Gathering room as a gallery full of the loved one's photos and mementos
- ③ Gathering room as a small, intimate and informal service
- ④ Sharing a memorial group meal
- ⑤ Interment options - green burial, biocremation, and composting





1 Main floor plan
1/8" = 1'-0"



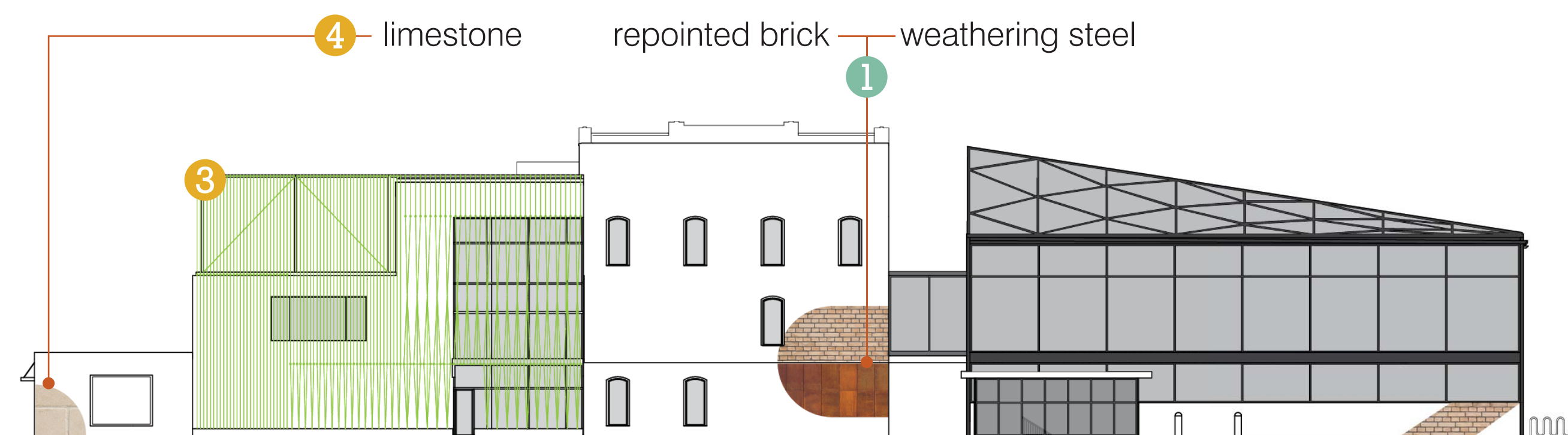
Lower level floor plan
1/8" = 1'-0"



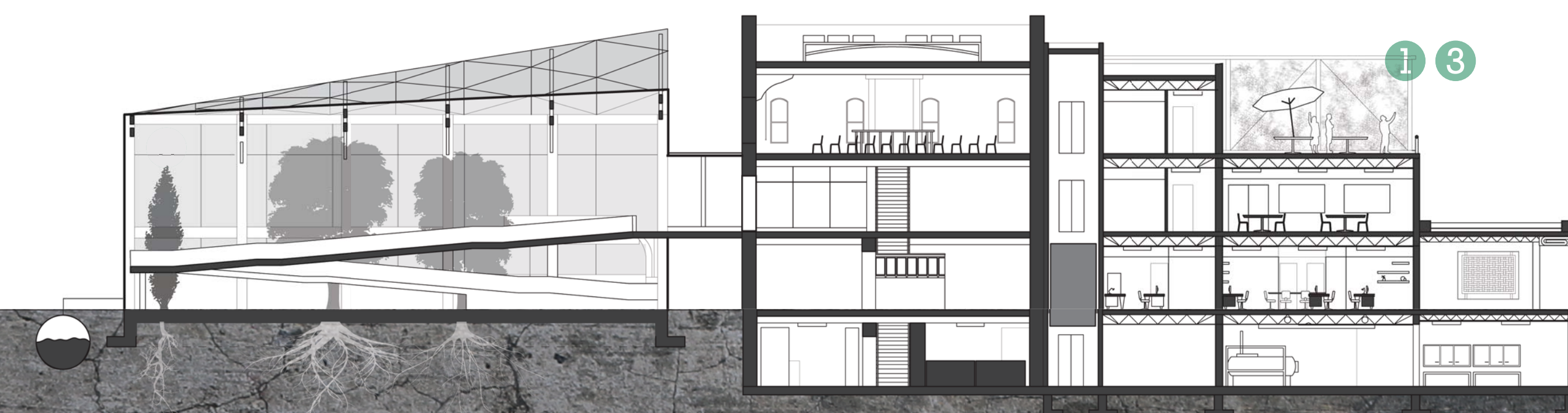
emotional responsiveness

How can a building make a person feel better? Historically, buildings that utilize light, shadow, and views to nature have elicited a calming and introspective feeling. The facility recognizes the emotional impact of funeral planning and will strive to provide a place of reflection and healing.

- 1 Witnessing natural cycles | changing leaves, light & shadow, material age
- 2 Year-round garden conservatory
- 3 Views to natural and soft textures
- 4 Breakout spaces for quiet thought or an impromptu gathering



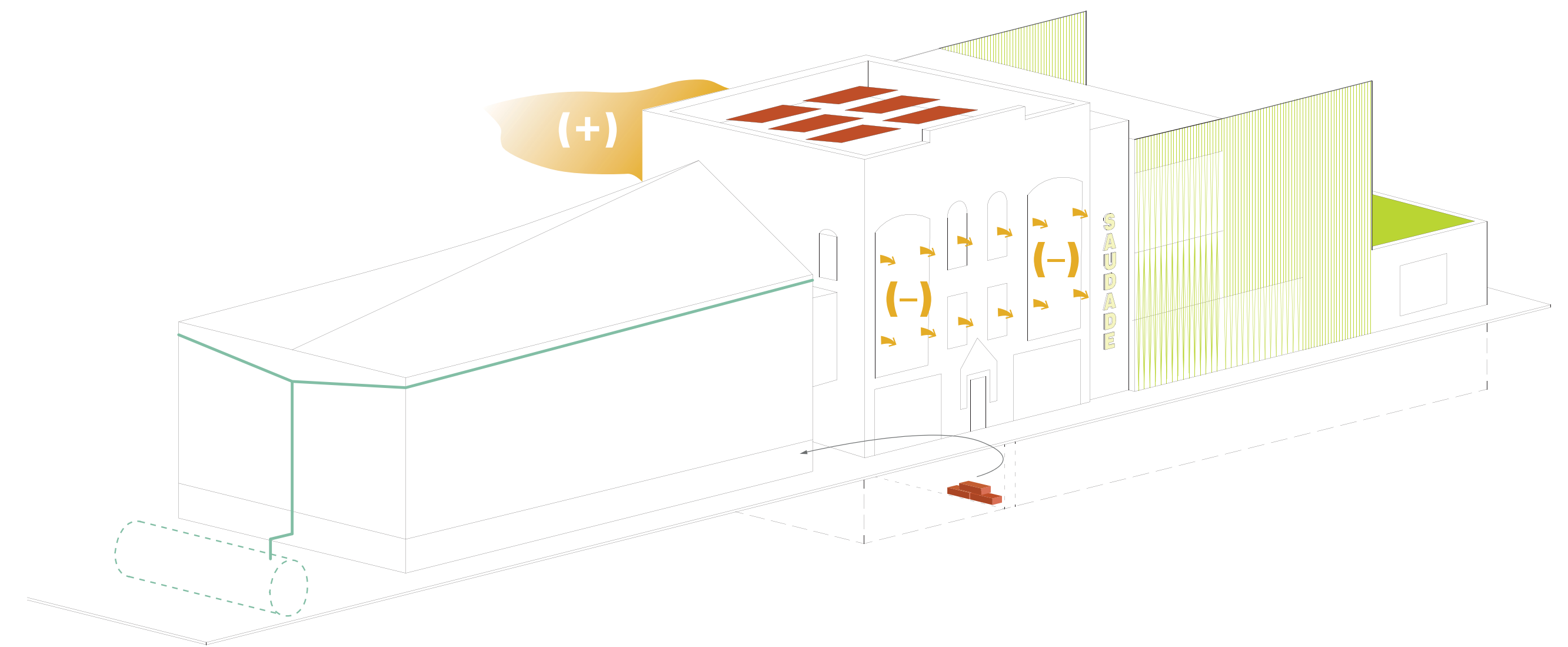
South elevation



Longitudinal section



Conservatory interior

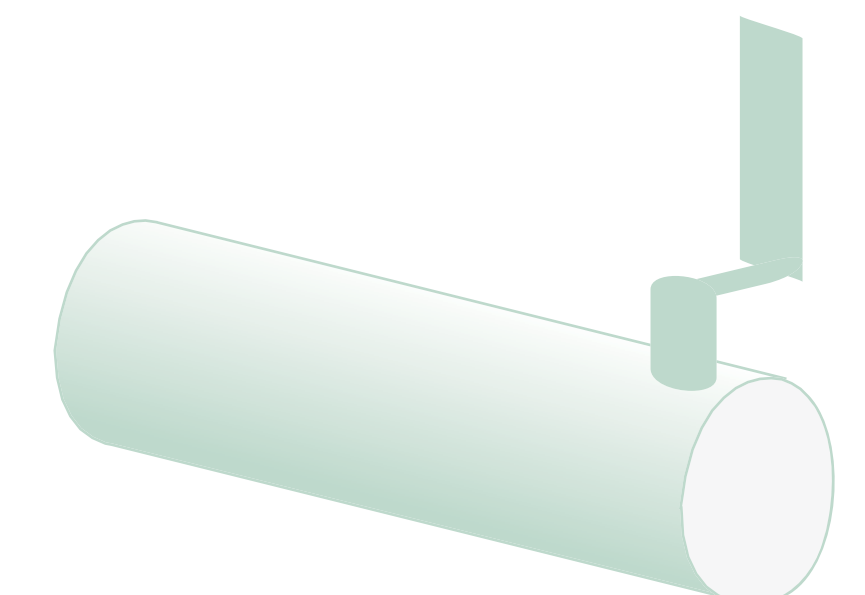


water collection

MSP annual rainfall: 28.8" Catchment area: 2,184 ft²
 August average rainfall: 4.8" Conversion factor: .623

Harvested water = (2184)(4.8)(.623) = 6531 gallons

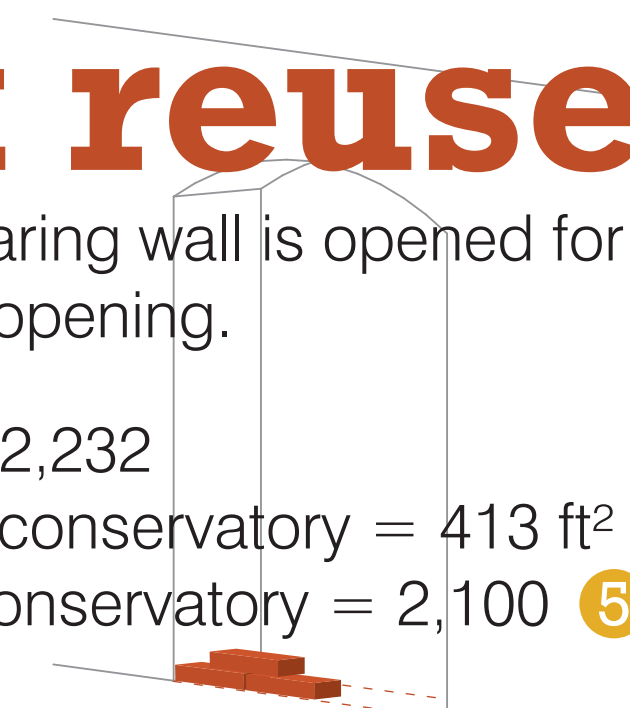
10,000 underground tank collects water for conservatory plant life



brick reuse

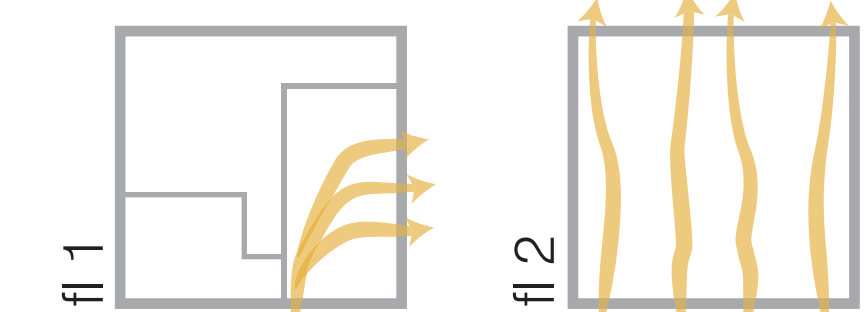
24" thick interior bearing wall is opened for a 8' wide and 9' high opening.

Displaced bricks = 2,232
 Curbside facade of conservatory = 413 ft²
 Bricks needed for conservatory = 2,100 ⁵



ventilation

Operable Chicago style and double hung windows utilize prevailing southern breezes to cool the interior spaces in the summer, especially the high occupancy spaces.



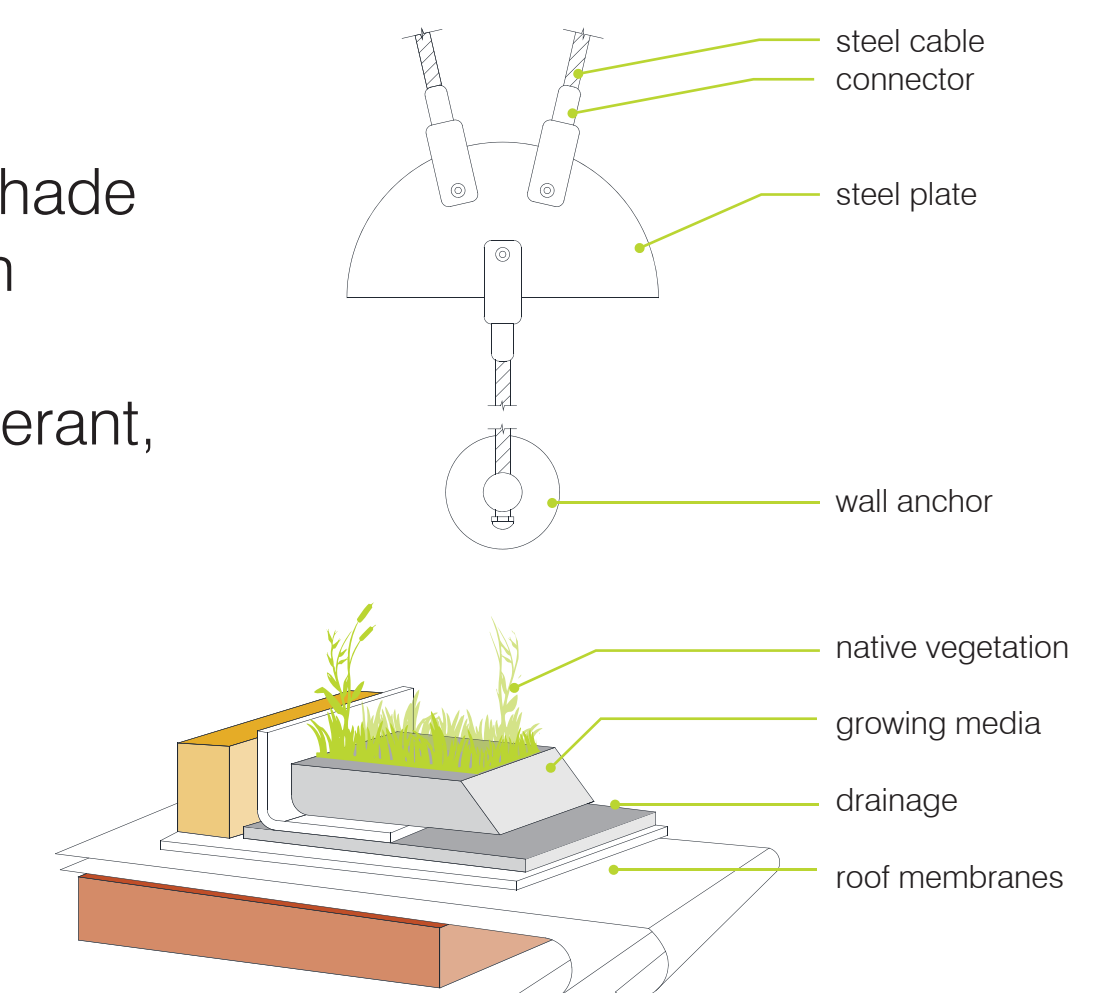
vegetation

TRELLISES:

- SOUTH · HARDY KIWI:** full sun, 35' high, twining, berries, flowers | sun shade
- WEST · HONEYSUCKLE:** full sun, 10' high, twining, berries, flowers, | sun shade, attract hummingbirds & butterflies
- NORTH · ALGERIAN IVY:** shade tolerant, 50' high, aerial rootsn shade tolerant, less dense foliage | exterior views

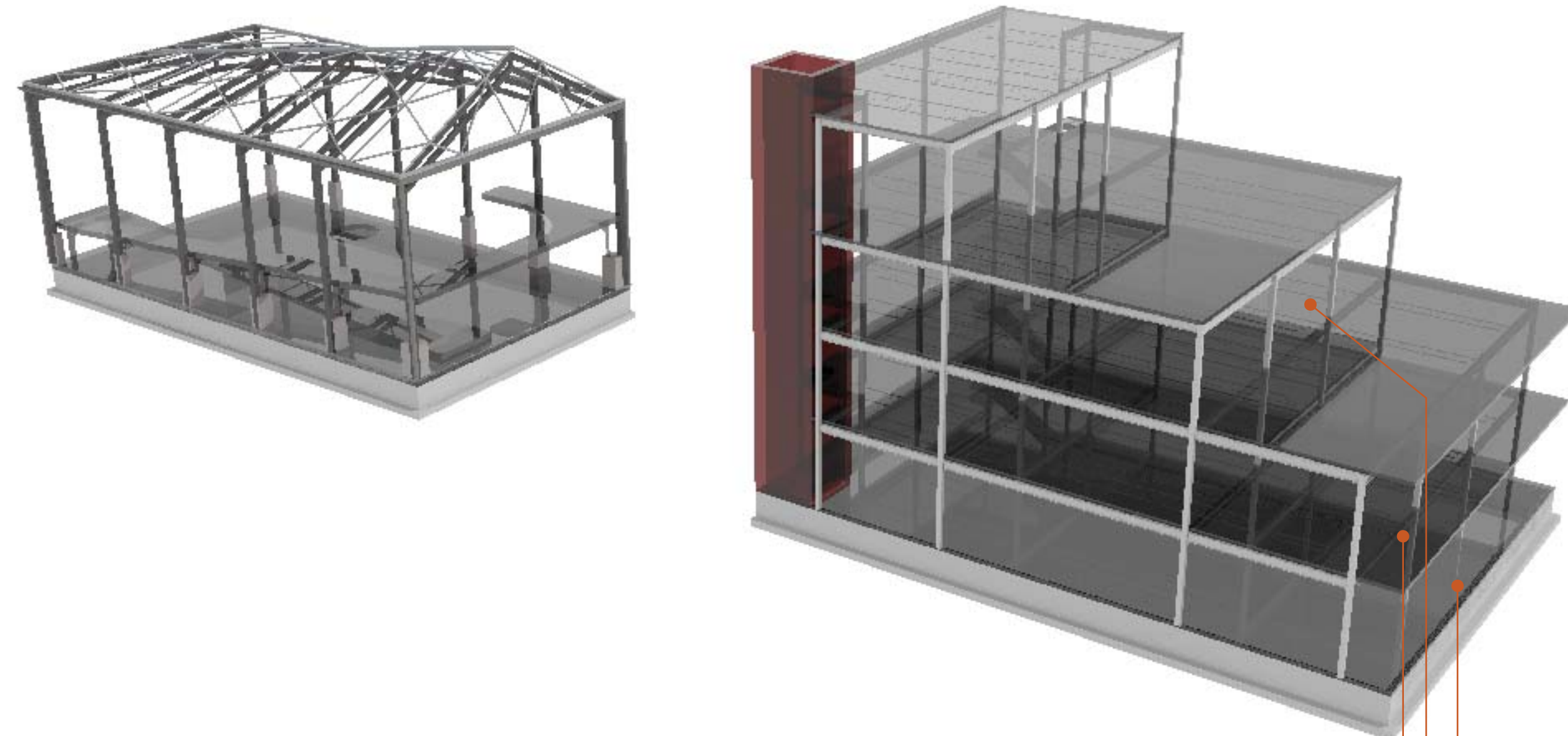
GREEN ROOF:

Prairie grasses and perennials. Excellent water retention, little maintenance, and no irrigation needed



harvest sunlight

Sun hours/day: 4.74 yearly average
 Tilt: 5°
 Panel manufacturer: Sunpower Nominal power: 435W
 Panel efficiency: 20% Array: 36 panels
 Output per day: 15 kW



Structure diagram

CONSERVATORY

- Heavy timber frame | 12" x 12"
- Diagrid glass roof
- Steel storefront mullions
- Concrete slab
- Slab punctured for tree root growth

BUILDING ADDITION

- Steel square columns | 8" x 8"
- Wide flange girder | 12" x 26"
- Open bar joist | 10" depth
- Open bar joist | 20" depth
- Concrete slab over metal form | 6"
- CMU elevator shaft