

water management

Roof Water Collection 1 of 2

- Learning Center roof drains to be piped directly to cistern
- Existing campus roof drains to be re-routed to cistern
- Only emergency overflow of roof drains will flow to Starkweather Creek

Roof Deck Zone 1

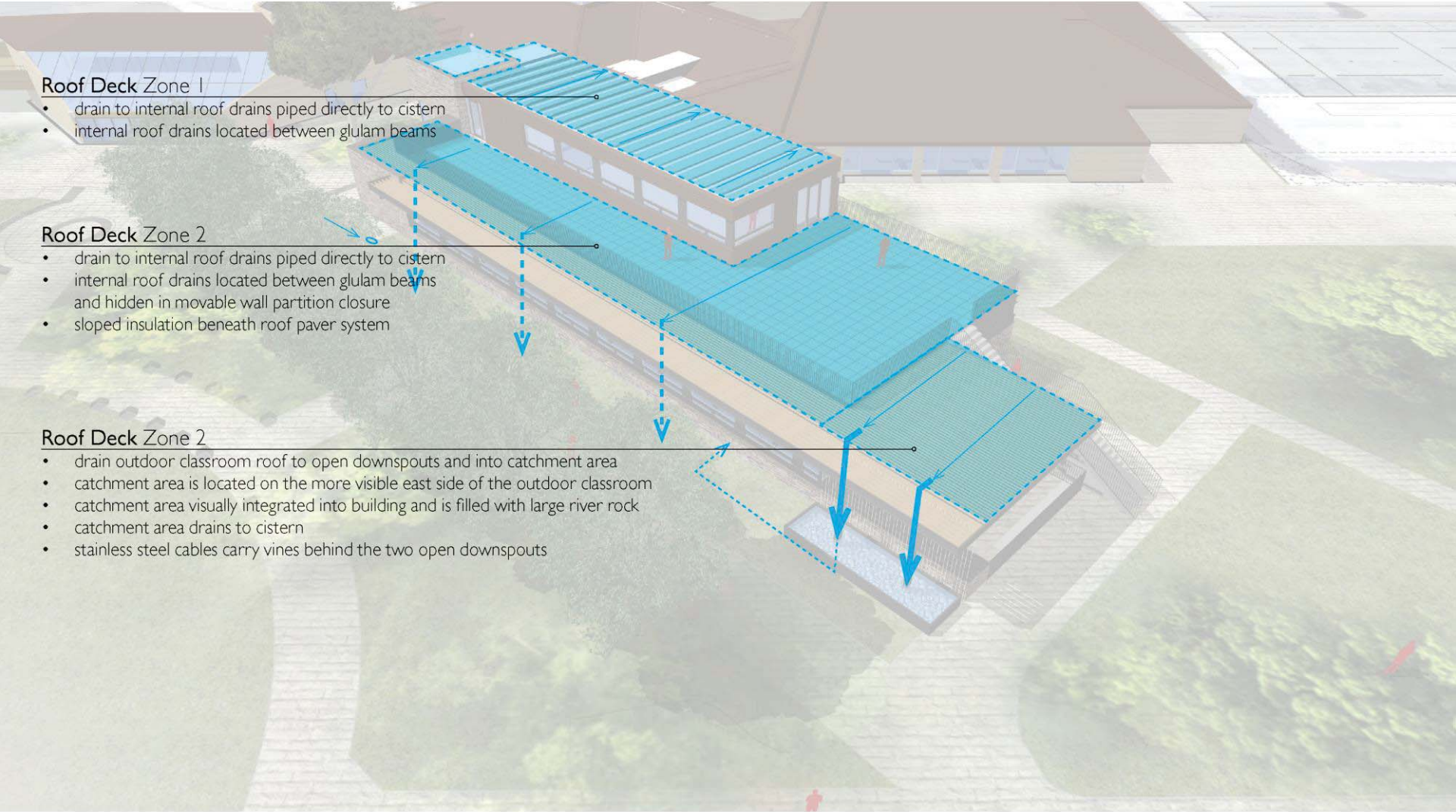
- drain to internal roof drains piped directly to cistern
- internal roof drains located between glulam beams

Roof Deck Zone 2

- drain to internal roof drains piped directly to cistern
- internal roof drains located between glulam beams and hidden in movable wall partition closure
- sloped insulation beneath roof paver system

Roof Deck Zone 2

- drain outdoor classroom roof to open downspouts and into catchment area
- catchment area is located on the more visible east side of the outdoor classroom
- catchment area visually integrated into building and is filled with large river rock
- catchment area drains to cistern
- stainless steel cables carry vines behind the two open downspouts



water management

Roof Water Collection 2 of 2

- Collection cistern is proposed to be under Learning Center floor
- Estimated capacity to be approximately 40,000 gallons
- Estimated to provide Conservatory with 26 days of water if no additional rain is added
- Will reduce the dependency of softened water and Reverse Osmosis (RO) water saving on annual operating costs

