

A&A TREEHOUSE, GOLDEN, CO
office and studio expansion for architectural firm



LEED GOLD NC v2
DESIGN TEAM:

Architect:
Andrews & Anderson Architects, PC

Contractor:
Alleyarch, LLC

Construction Manager:
Jim Barney

Sustainability Consultant:
Andrews & Anderson Architects, PC

Structural Engineer:
KL&A

Mechanical Engineer:
Integrated Mechanical Systems

Electrical Engineer:
JCN Engineering

Lighting Consultant:
Lynn Redding Lighting Design

Roofing Consultant:
Rooftech Consultants, Inc.

Commissioning Agent:
Geo Energy Services, Inc.



ANDREWS &
ANDERSON
ARCHITECTS

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GREEN FEATURES:

Sustainable Materials:

- Salvaged gym flooring, salvaged bleacher seating for casework
- Recycled tire carpet tiles
- Tectum ceiling panels
- Steel staircase - MAD FRM 90% post-consumer
- FSC certified maple stair treads, cabinetry trim and wood framing
- Fly ash additive in concrete mix
- Metal roof w/40% recycled content

Water Conservation:

- Dual-flush toilets and low-flow shower head reduce interior potable water usage by 23.2%

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GREEN FEATURES:

Sustainable Materials:

- 50% of construction lumber is FSC Certified
- 3Form panels produced from recycled plastics
- Cemstone panels produced from recycled concrete

Pollution Reduction:

- Recycled materials from deconstruction & construction
- Reduced exterior light pollution
- No CFC-based refrigerants in HVAC systems
- Low VOC paints, sealants and adhesives used throughout
- Reused building components

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GREEN FEATURES:

Sustainable Materials:

- Formaldehyde-free MDF work stations and cabinetry, cork display boards
- Recyclable carpet, soy-based carpet pad

Energy Efficiency:

- Compact fluorescent lighting
- Daylighting
- UV-coated glass and operable windows for passive cooling
- Lighting controls; occupancy sensors

Renewable Energy:

- PV array provides 27.7% of annual electricity
- 35% of annual electric energy purchased from wind power



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GREEN FEATURES:

Sustainable Site:

- Re-used components of the former structure to reduce site disturbance
- Retained the site's 100-year old Linden tree as the focal point
- Native vegetation replaced pavement in some areas
- Partial green roof
- Pervious asphalt over 50% of site
- Sitework decreased stormwater runoff by 31.25%

Energy Efficiency:

- Super-insulation, deep overhangs
- Ground source heat pump reduces energy usage by 40%-50%
- Roof angle and color maximize the Solar Reflectance Index

Water Conservation:

- Retaining walls, pervious asphalt, underdrain systems and an underground dry well collect excess water on the site, filter it and direct it underground, replenishing the local aquifer