

Sustainable design is multifaceted. Bradley J. Butcher & Associates, PC has recognized the importance of the responsible treatment of our natural resources and is committed to the most appropriate design approach for each particular project. An “Integrated Design” concept, or collaboration and coordination between all the design disciplines, is the forefront of our approach. A few specific areas of importance include:

**Building Design;** orienting the building on the site and the spaces within the building

**Energy Conservation;** high efficiency boilers, energy recovery ventilation, building envelope components

**Recycling Materials;** including re-using building materials when practical

**Indoor Environmental Quality;** low VOC emitting building materials, HVAC and building automation systems

**Renewable Energy;** including solar, wind and geothermal energy sources

### Camp Grayling Annual Training Site, Grayling Michigan – Dining Facility

Construction is nearing completion on the dining facility at Camp Grayling Annual Training Site, which will support 400 soldiers in staggered seatings. The building is being constructed of insulated concrete formed walls, and sustainable construction materials and systems have been integrated into the design, development, and construction of the project. The project is being considered for joint use potential by the Deputy Assistant Secretary of the Army (Installation and Housing). Construction Budget is \$1.997 million.

**Photo:** Dining Hall Ribbon Cutting Ceremony attended by Tim Baker, Brad Butcher, Hon. Sen. Carl Levin, Col. Ron Latuszek, Traci Cook, and Maj. Gen. James Vadnais (L-R)

Follow the construction progress on the Camp Grayling Dining Facility at:

<http://www.butcherandassociates.com/butcher/pages/military%20government/cgdh-1.htm>



### Tahquamenon Outdoor Recreation Complex

The Tahquamenon Area Recreation Authority in Newberry, Michigan has recently selected Bradley J. Butcher & Associates, PC as part of the design team that will bring the future Tahquamenon Outdoor Recreation Complex to life. The proposed Outdoor Recreation Complex will be on a 40+ acre brownfield site located in the Village of Newberry, in Michigan’s Upper Peninsula. This is a multi-phased project, and funding is in place for Phase I (outdoor ice-rink) and Phase 2 (pavilion). BJA will be involved with the design of the sheltered outdoor skating pavilion and visitor’s center. Other aspects of the project include trails and trailheads, picnic and exercise area, skate-park, a 3-D archery range, and disc golf course on a ten acre parcel.

Bradley J. Butcher & Associates, PC is proud to continue providing quality architectural services to the USDA Forest Service. Current projects include Office Administration Buildings / Warehouse Facilities for Ranger Districts in the Huron–Manistee National Forest and in the Cadillac–Manistee National Forest.



### Baldwin/White Cloud Ranger District Office Administration Building

Preparation of Design, Construction Documents, Construction Phase Services, and LEED® oversight and commissioning for a new 19,342 square foot Baldwin District Office/ Warehouse building on an existing site in the Huron Manistee National Forest. This project will achieve at least a Gold certification under the LEED® system. Architect's services include drawings, specifications, cost estimates, and LEED® documentation for architectural related work only.



### Chittenden Center – Cadillac–Manistee District Office and Administrative Office

Bradley J. Butcher & Associates, PC is providing Architectural, Engineering and LEED® services for Design Development, Construction Documents, limited Construction Phase services, and LEED® commissioning for a 10,142 square foot renovation of the existing Conifers building, renovation of an existing unheated warehouse, design of a new heated warehouse, and design of site related activities.

### Residential Renovation – Lake Margrethe, Grayling Michigan

Butcher & Associates has provided Design and Construction Phase services for this major residential renovation project. In addition to expansion of the living area in the 40 year old home, significant improvements to the building's mechanical and electrical systems have been provided. Upgrades to the building's thermal envelope have also been provided through the use of new insulation in the walls and roof, along with proper ventilation of the attic areas. This effort meets or exceeds the requirements of the Michigan Energy Code and will enable the client to realize long term savings in energy use over the original performance of the home.

The home has a southerly exposure toward the lake. A pergola at the exterior Great Room not only adds architectural character and a sense of enclosure at the deck, but it also adds a shading element to the windows of the Great Room and along with deeper overhangs at the Dining area, it reduces heat gain and lowers energy costs related to cooling the home.

