

2017 MCA EXCELLENCE AWARDS

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2017 MCA EXCELLENCE AWARDS

Message from the Executive Director

At the Montana Contractors' Association (MCA), awards season is one of our favorite times of the year. Applications for the MCA Excellence Awards flood in from across the state, and we get to see what our member companies have been working on so diligently for the past 12 months.

This year did not disappoint! Your roads, bridges, commercial construction, historic renovation, and more showed us once again the commitment our members have to putting forth their best work each and every day.

We extend a heartfelt congratulations to our Excellence Award winners, and thank all of our MCA members for your dedication to our industry, and our association. We wish you all the best in 2018!

Cary Hegreberg

Cary Hegreberg
Executive Director

Judges:

DAVE FRENTRESS, CalPortland

DON CLEM, NRMCA Northwest Region

GREG MILLER, Retired

ALASKA CHAPTER of the AGC

MCA Staff:

CARY HEGREBERG

MARYANN SEILSTAD

KEITH OUZTS

CAROLYNN BRIGHT



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AWARD WINNERS

Concrete Excellence Award – Paving 3
PROJECT: GREEN MEADOW ROUNDABOUT
General Contractor: Helena Sand & Gravel
Concrete Producer: Helena Sand & Gravel
Concrete Finisher: White Resources

Concrete Excellence Award – Commercial Decorative 3
PROJECT: LEWISTOWN SKATE PARK
General Contractor: Evergreen Skate Parks
Concrete Producer: Casino Creek Concrete

Building Excellence Award – Best Commercial Construction 3
PROJECT: SWEETGRASS COMMONS
General Contractor: Jackson Contractor Group
Architect: MMW Architects

Building Excellence Award – Best Industrial Construction 3
PROJECT: DEER LODGE WWTP
General Contractor: Sletten Construction
Engineer: Morrison Maierle

Building Excellence Award – Best Institutional Construction 3
PROJECT: MISSOULA COLLEGE
General Contractor: Jackson Contractor Group
Architect: StudioFORMA

Building Excellence Award – Best Historic Restoration 4
PROJECT: CARROLL COLLEGE CHAPEL
Contractor: Dick Anderson Construction
Architect: CTA

Concrete Excellence Awards – Industrial/Commercial \$1-\$5 Million 4
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General Contractor: COP Construction
Concrete Producer: Oftedal Construction

Building Excellence Awards – Excellence in Craftsmanship 4
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General Contractor: Jackson Contractor Group
Architect: CTA Architects Engineers

Concrete Excellence Award – Technical Merit 4
PROJECT: BOEING PHASE III
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Concrete Producer: Helena Sand & Gravel
Concrete Finisher: ARCO Builders

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PROJECT: TOWN & COUNTRY SUPPLY ASSOCIATION
General Contractor: Stueve Construction
Concrete Producer: Knife River Billings
Concrete Finisher: Custom Concrete

Concrete Excellence Award – Bridges 5
PROJECT: CAPITOL/CEDAR INTERCHANGE
General Contractor: Sletten Construction
Concrete Producer: Helena Sand & Gravel

Concrete Excellence Awards – Green Concrete Applications 5
PROJECT: HELENA AVIATION READINESS CENTER
General Contractor: Swank Enterprises
Concrete Producer: Helena Sand & Gravel
Concrete Finisher: White Resources

Concrete Excellence Award – Industrial/Commercial >\$5 Million, Judges Choice Award 5
PROJECT: BZN HANGERS 1 & 2
General Contractor: Langlas & Associates
Concrete Producer: Knife River

CONCRETE EXCELLENCE AWARD - PAVING

PROJECT: GREEN MEADOW ROUNDABOUT

General Contractor: Helena Sand & Gravel

Concrete Producer: Helena Sand & Gravel

Concrete Finisher: White Resources

The roundabout required 1,931 CY of cast-in-place concrete for concrete paving, curb and gutter, and sidewalks. This project took approximately four months to complete. All of the concrete used on this project was required to meet 4,000 psi compressive strength and have air contents range from 5.5 percent to 8.5 percent. The concrete subcontractor (White Resources) had to use best practices of adequate surface hydration as well as proper curing methods as local weather conditions often consisted of very high winds with low relative humidity. There were a few days where they made the decision not to proceed with a scheduled placement due to excessive winds. Delineating islands contain the standard brick red concrete with a brick stamp application.



CONCRETE EXCELLENCE AWARD - COMMERCIAL DECORATIVE

PROJECT: LEWISTOWN SKATE PARK

General Contractor: Evergreen Skate Parks

Concrete Producer: Casino Creek Concrete

Every square foot was required to be finished by hand. On the jobsite, you could not find a straight screed, straight float, straight trowel — everything had a hand-bent curve to it. The most impressive feature of the skate park is the artistry and the craftsmanship of the work. Concrete often gets used as sensible blocks and slabs with no consideration given to the flexibility of the finishing/final look. Lewistown was expecting a skate park — what they got was 25,000 square feet of concrete artwork.



BUILDING EXCELLENCE AWARD - BEST COMMERCIAL CONSTRUCTION

PROJECT: SWEETGRASS COMMONS

General Contractor: Jackson Contractor Group

Architect: MMW Architects

Sweetgrass Commons is an affordable housing project built in the Old Sawmill District in Missoula. Not only was the 27-unit designed for energy efficiency, but it was held to a high level of craftsmanship to allow it to blend with redevelopment of the area to a modern and updated neighborhood. The project used insulated concrete forms for the foundation which resulted in cost savings and reduction in schedule. This technique also allowed for the foundation to be poured in a particularly cold winter without a lot of increase in temporary heat as the blocks provide some insulation. Because of Sweetgrass Commons' location — on a reclaimed mill site — some mitigation efforts were required. In addition, the project was started, and completed, in winter to ensure the owners would have access to associated tax credits.



BUILDING EXCELLENCE AWARD - BEST INDUSTRIAL CONSTRUCTION

PROJECT: DEER LODGE WWTP

General Contractor: Sletten Construction

Engineer: Morrison Maierle

This project transformed the city of Deer Lodge's wastewater treatment facility from a lagoon system to a mechanical plant. The project involved about 4,400 CY of cast-in-place concrete for eight structures, six of which are water-bearing structures, along with masonry structures. Because the project was built within an existing sludge lagoon, the lagoon had to be drained, the sludge removed, and fill brought in to achieve grade for the new structures. Multiple crews were used on the different structures and two cranes were also used to keep everyone working without delays. To ensure timely delivery of materials, a batch plant was set up about a mile from the project. Groundwater in the area was a major challenge on the job site. Contractors were able to work with area residents to install a liner in an irrigation ditch and a French drain around the project to minimize water flow through the site. Despite the complexities, the project was completed ahead of schedule.



BUILDING EXCELLENCE AWARD - BEST INSTITUTIONAL CONSTRUCTION

PROJECT: MISSOULA COLLEGE

General Contractor: Jackson Contractor Group

Architect: StudioFORMA

Missoula College is a 113,000 square-foot high education building comprised of kitchens, dining areas, library, laboratories, classrooms and office. The project achieved LEED Gold Certification. Size, variable weather, saturation in the construction market, local wildlife (osprey nest) and scope coordination were all challenges of the Missoula College project. Exposed wood beam and deck ceilings ground the building and warm the interior spaces, while the exterior envelop system ties the building to its surroundings while maintaining a modern, detailed visual for motorists entering Missoula. Pull planning and daily last planner were used to ensure accurate scheduling and planning among all members of the project team, and contributed to the completion of the project two months ahead of schedule.



BUILDING EXCELLENCE AWARD - BEST HISTORIC RESTORATION

PROJECT: CARROLL COLLEGE CHAPEL

Contractor: Dick Anderson Construction

Architect: CTA

For more than 100 years, Carroll College wanted a building where up to 350 people could gather to worship on Sunday nights. The new space had to meet these service needs as well as give a future home to the campus ministry and student gathering spaces. The Old North Gymnasium Building, originally built in 1917, proved to be an excellent home for these services — after a renovation/restoration. The project involved nearly three miles of wood base, casing and extension jamb molding, trusses that were a merger of steel and wood that span more than 68 feet, and much more. While portions of the building were demolished, various face stones were salvaged and incorporated into the new walls. Crews worked in close coordination to manage limited available space on the site and equipment size restrictions.



CONCRETE EXCELLENCE AWARDS - INDUSTRIAL/COMMERCIAL \$1-\$5 MILLION

PROJECT: UNITS 3 & 4 DEWATERING SYSTEM

General Contractor: COP Construction

Concrete Producer: Oftedal Construction

The project consisted of building a concrete dewatering structure for dewatering the bottom ash from Units 3 and 4 of the Colstrip Power Plant located in Colstrip, Mont. The structure is 182 feet wide and 332 feet long which covers a 1.4 acre area. The base slab is 18 inches to 24 inches thick and the 15-foot-tall walls are 24 inches thick. The structure has three settling basins and one clearwell separated by internal 14-foot-tall walls, 24 inches thick as well. COP Construction placed more than 6,200 cy of concrete and the iron workers placed 2,000,000 pounds of rebars in a span of three months. A 780 cy mud slab was poured once subgrade was made to allow for a clean worksite during wet conditions. The concrete slab and wall pours had to be sequenced so that adjacent placements were not placed within seven days of each other.



BUILDING EXCELLENCE AWARDS - EXCELLENCE IN CRAFTSMANSHIP

PROJECT: UNIVERSITY OF MONTANA CHAMPIONS CENTER

General Contractor: Jackson Contractor Group

Architect: CTA Architects Engineers

The 51,000-square-foot Champions Center at the University of Montana was a highly complex design. It houses locker rooms for the university's football program and expansive meeting spaces for all of UM's 15 sports programs. It also includes a two-level weight room for use by all student athletes. The building has 11 different slab heights — generally this would only be seen in a high-rise application. There are 27 wallsteps in the exterior foundation all of which correspond to existing exterior grades or one of the abovementioned slab elevations. The project posed significant logistical challenges for contractors as workers were blocked in on all four sides by some kind of restrictive component, including Washington Grizzly Stadium. In addition, considering the significant investment by project donors and the end goal of recruitment for the University of Montana, craftsmanship was a top priority.



CONCRETE EXCELLENCE AWARD - TECHNICAL MERIT

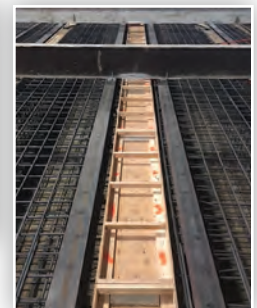
PROJECT: BOEING PHASE III

General Contractor: Dick Anderson Construction

Concrete Producer: Helena Sand & Gravel

Concrete Finisher: ARCO Builders

Boeing Phase III was a 90,000-square-foot addition to their existing facility, located in Helena, Mont. The concrete placed for this project included: footings, foundation walls and columns, place slabs-on-grade as well as elevated decks and placement of five mass concrete equipment pads. What made this project unique was the five mass concrete equipment foundations that contained steel I-beams for the manufacturing equipment bases. The final elevations of the I-beams (six in the large foundation) had to be within a 2-millimeter tolerance over a 130 foot length.



CONCRETE EXCELLENCE AWARD - AGRICULTURAL CONCRETE

PROJECT: TOWN & COUNTRY SUPPLY ASSOCIATION

General Contractor: Stueve Construction

Concrete Producer: Knife River Billings

Concrete Finisher: Custom Concrete

The Town and Country Supply Association Building was composed of numerous columns, 40 feet tall, 3-4 feet in diameter using a total of 60,000 square feet of exterior concrete. The building will be used for storage and manufacturing of many types of fertilizer and associated chemicals. Concrete is the ideal product for this type of project. The facility will enhance the ability of our local and surrounding agricultural community to compete globally. Its transportation efficiency will also help it find a niche in the market.



CONCRETE EXCELLENCE AWARD - BRIDGES

PROJECT: CAPITOL/CEDAR INTERCHANGE

General Contractor: Sletten Construction

Concrete Producer: Helena Sand & Gravel

Removing an existing bridge is difficult at best, compounded with the fact that it was done over multiple live railroad tracks and a public road. The northbound bridge was completed in 2016, with completion of the southbound bridge in 2017. On the southbound bridge, the deck was able to be placed in three night placements, sequenced in seven sections. This project contained a total of 9,110 yards of concrete provided by Helena Sand and Gravel. Thanks to great planning and communication between Sletten Construction and Helena Sand and Gravel we were able to provide concrete on all the night placements safely with no incidents.



CONCRETE EXCELLENCE AWARDS - GREEN CONCRETE APPLICATIONS

PROJECT: HELENA AVIATION READINESS CENTER

General Contractor: Swank Enterprises

Concrete Producer: Helena Sand & Gravel

Concrete Finisher: White Resources

Construction of Helena Aviation Readiness Center began in the spring of 2015 and used a total of 7,445 CY of concrete. There were six mix designs utilized for each specification needing to be met based on the intended use and exposure to freeze-thaw. All required 4,000 psi, with exception of the grout, which required 2,500 psi, and pervious concrete had a permeability specification. A unique part of this project was the incorporation of a pervious concrete parking lot rather than utilizing asphalt in areas where no large equipment will be driven. To date, this is the largest pervious placement in Montana, consisting of 655 cubic yards. White Resources LLC placed the pervious concrete in four rather than the anticipated five days, with the technical assistance of David Mitchell – Bunyan Industries.



CONCRETE EXCELLENCE AWARD - INDUSTRIAL/COMMERCIAL >\$5 MILLION, JUDGES CHOICE AWARD

PROJECT: BZN HANGERS 1 & 2

General Contractor: Langlas & Associates

Concrete Producer: Knife River

This project was one-of-a-kind and a first for Langlas, as well as our subcontractors and suppliers for a number of reasons: its physical size, intended use, new/innovative use of products, and new/innovative use of machinery and technology. The use of concrete for foundation elements was intuitive for a building of this size and type. Concrete slabs on grade, however, involved much more detail and work than the average industrial slab with stringent subgrade preparations, 3-inch-thick hangar rated rigid insulation, 15 mil vapor barrier, #7 and #8 reinforcing at 12 inches on center each way, an overall thickness of 10 inches, slope of 1/16 inches per foot, and stringent flatness requirements to enhance the final aesthetic when coated with epoxy finish. The final slab surface varied no more than 1/16 inch from design elevation for a majority of the 80,000-square-foot surface area. Use of the Bidwell 4800 screed to achieve these results was a defining decision for the project. The Gomaco Commander III paving machine equipped with Topcon Stringless mmGPS controls allowed fast and effective placement for the 35,000 square feet of 11-inch-thick aprons to connect the hangar structures to airside runways. Total quantity of concrete exceeded 5,000 cubic yards, with the majority (3,440 cy) being placed in 6 ½ weeks, and another 1,200+ cy being placed for aprons in a total of five pour days.



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