



READY MIX & CONCRETE PRODUCTS ASSOC.

EXCELLENCE

**GOLD STAR
2021
AWARDS**

IN CONCRETE

JANUARY 12-13, 2022
FARGO, NORTH DAKOTA



EXCELLENCE IN CONCRETE

Welcome to the 2021 Gold Star "Excellence in Concrete" Award program. We are glad to be meeting in person this year to recognize our industry partners who demonstrate a commitment to concrete. Congratulations to the following promoters, designers, owners, suppliers, contractors and all who had a hand in earning our association's highest honor.

In total, 22 projects from across the state were submitted for consideration. An independent judging panel was selected to review all applications and to narrow down the winning entries. Thank you to all who submitted applications. The competition this year among the projects nominated made for lively debates among our judging panel as they chose the 10 award winning projects.

The projects highlighted in this magazine truly demonstrate the advantages of concrete – safety, resiliency, durability, environmental stewardship and aesthetics – to name a few. Your efforts and contributions to the concrete industry are worthy of recognition and appreciation.

Sincerely,



Art Thompson

Director

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AIRFIELD CATEGORY

GOLD STAR WINNER

*Location:
Watford City, ND*

*Owner:
Watford City Municipal
Airport Authorities*

*Engineer:
KLJ Engineering*

*Contractors:
Park Construction
Strata Corporation*

*Concrete Supply:
Strata Corporation*

WATFORD CITY AIRPORT

Watford City, located in the heart of the Bakken oil field, has become one of the busiest non-commercial airports in the country, and the increased air traffic volume posed a challenge to the existing facility. Namely, the existing runway was too short for larger jets to land, and lack of a taxiway meant planes that landed had to turn around and utilize the runway to access the terminal.

In 2020, construction began on a full reconstruction and realignment that included a 6,550-foot-long runway and a full-length parallel taxiway. To keep the airport operating as long as possible, construction was completed in 2020 around the existing runway. In Spring 2021, the airport was closed to remove the existing runway and to complete the extended runway and new taxiway. The project was substantially complete in mid-September, and planes started landing on October 1, 2021.

Concrete was chosen as the construction material over other options due to three main factors: pavement life expectancy, minimal maintenance, and anticipated jet traffic utilization.

The concrete mix was designed to meet the stringent FAA guidelines. It utilized a 50 percent cement replacement with ground blast furnace slag, to mitigate alkali-silica reactivity (ASR) and sulfate attack as well as for strength requirements. In addition, hot water

was utilized in late fall and early spring to accelerate set times. Chilled water was used in the mid-summer to maintain concrete temperatures during record heat.

To complete the 75-foot-wide runway as quickly as possible, Strata Corporation was able to pave 37.5-foot-wide per pass instead of the originally planned 25-foot lanes, eliminating the need to make a third pass. The project included 23,500 CY of P501 concrete to complete the 75-foot-wide runway and 35-foot-wide taxiway.





GOLD STAR WINNER

*Location:
Burleigh County, ND*

*Owner:
North Dakota Department
of Transportation*

*Engineer:
North Dakota Department
of Transportation*

*Contractor:
Industrial Builders Inc.*

*Concrete Supplier:
Strata Corporation*



BRIDGE/WATER CATEGORY

APPLE CREEK SEPARATION BRIDGE REPLACEMENT

A recent traffic study showed traffic on the Apple Creek Bridge, located east of Bismarck, ND on Interstate 94, is forecasted to increase more than 40 percent in the next 20 years. Based on that data it was determined the current structure was not capable of managing the increased traffic volume and the decision was made to replace and upgrade the structure.

Industrial Builders was selected as the general contractor for this project. One of the most challenging aspects of this project was the location. The location on Interstate 94 meant the project was always under strict traffic control to keep workers and traveling public safe through the duration of construction.

Concrete was selected for this project based on its longevity and minimal maintenance needs. Specifications for this project were based on the NDDOT Standard Specifications for Road and Bridge Construction. Both AE3 and AAE3 classes of concrete were utilized in either hand placement or machine placement. Fly Ash from Coal Creek in Underwood, ND was used as the pozzolan. MasterAir AE90 (air entrainment), MasterPolyheed 1020 (water reducer), and MasterSet Delvo (Hydration Stabilizer) were the admixtures used on this project.

Before placement of concrete, decorative forms were used on the outside of the jersey barriers to give a stone appearance on the sides of the bridge. After the concrete cured, the bridge was treated with a tinted cement-based paint, with most being deep brown and assorted colors on the "stone" pattern.

This bridge provides a safe passage over Interstate 94 and is located near the Burleigh County Highway Department and a new coming elementary school opening in 2022. There is no doubt as Bismarck and the area around the bridge continues to grow, this structure will not only serve its purpose but also look great while doing it for decades to come.





COMMERCIAL CATEGORY

GOLD STAR WINNER

Location:
Fargo, ND

Owner:
Ryan Companies US Inc./Amazon

Engineer:
Shirk & O'Donovan

Contractor:
Ryan Companies US Inc.

Subcontractor:
Northland Concrete & Masonry

Supplier:
Strata Corporation

AMAZON FACILITY – BUILDING AND INTERIOR PACKAGE

Innovating how products can be at your front door in a timely matter with just a few clicks on a keyboard, Amazon has changed how consumers shop. To keep up with consumer demand, Amazon added a new one-million-square-foot distribution facility in Fargo, ND. Located North of Hector International Airport and along Interstate 29, the facility can service the Red River Valley and neighboring states and communities.

Consistency was key for this project with the temperatures of aggregates, water, and concrete, all the way to the consistency of slump on every truck. The floor flatness was essential to the owners because of the robotics that deliver packages within the facility. Quality controls were put in place, so every mixer truck was recorded and met every specification designed for the facility. Another great challenge faced on this project was North Dakota winter weather. Construction of the footings, column pads, and foundation walls started in October 2020 and continued with the floors into April 2021.

Five concrete mixes were used to complete more than 42,000 cubic yards of footings, piers, foundation walls, slab on deck, and interior slab on grade. The mix design for the slab on deck used 20 percent Coal Creek Fly Ash in addition to the use of Lafarge Type I-II Portland Cement. In addition, MasterGlenium 7500 high range water reducer, supplied by Master Builders, allowed the contractor to increase slump for workability of the concrete after being line pumped through 150 feet of hose

without increasing the water to cement ratio. The interior slab on grade mix utilized 1 1/2" - coarse aggregate to increase the flexural strength for the design specification. Another essential admixture used was MasterSet AC 534, accelerating set time for increased productivity for the contractor. The footings, piers, and foundation walls mix included 15 percent Fly Ash along with ASTM size 67 coarse aggregate. Also included was a high early mix for the foundation walls to help the contractor expedite the schedule of the project in the colder months of North Dakota.

Northland Concrete had excellent communication with the Strata team to make this project run smoothly. Their professionalism shows in the quality of the product in the floor of this facility.

The use of concrete was a large benefit because of the longevity of the material and the minimal maintenance over the life span of the product. Concrete was the perfect solution to obtain the flatness required so the robotics can read coding from the slab. Durability played a key role on why concrete was selected for all the equipment used inside the facility. Being able to accelerate the concrete set time was crucial in finishing this facility in a timely manner.

This facility was a very large-scale project and set to finish in a short window. It took many local and regional companies working together in a timely manner to meet Amazon's completion deadline in the middle of a North Dakota winter.



GOLD STAR WINNER

*Location:
Kenmare, ND*

*Owner:
Miller Family*

*Contractor:
Campbell Customs, LLC*

*Concrete Supply:
Souris Valley Ready Mix*

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DECORATIVE CATEGORY

MILLER RESIDENCE

The Miller Family of Kenmare, ND was looking for a “wow” factor when deciding on how the exterior concrete of their home should look. Working together with Campbell Customs, a detailed design for the decorative driveway, porch and front entryway came to life.

Placed in October 2021, the project was completed through eight separate pours within a two-week period. The use of 4000 psi concrete with Boral pozzolan was the chosen mix design to achieve durability over the life of the project. A distance of 65 miles from the batch plant to the job site in cooler October temperatures required fine tuning of hot water and heated materials to achieve 65- to 70-degree concrete on the job site. In addition, two percent Superset accelerator admixture by Mapei was added on site for quicker set times. Timing with distance and using stamp patterns, integral colors, release and accelerator was done with precision and expertise through experience.

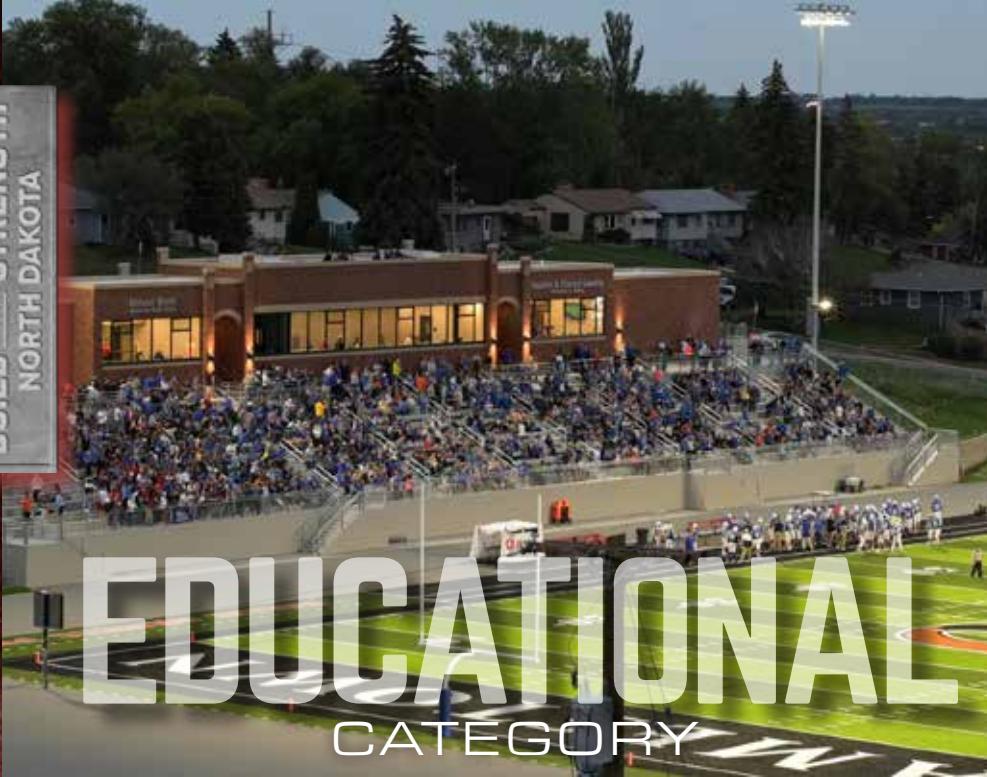
The Miller family chose Butterfield Coral Buff integral color for this project. The pigment was added at the batch plant. Next, charcoal release was used with a Bridge Plank pattern stamp. Finally, to profile the face and top, a green stripping

technique was used. The design also incorporates sets of horseshoes on the front stoop to add family charm as the Miller's raise Clydesdales.

In total, 65 cubic yards were placed. Floor heat was added on 1,000 sq ft of the driveway to prevent ice buildup where the sun does not reach.

The combined efforts of the Miller family's desires and Campbell Customs creative suggestions gave the homeowners the lasting effect they were looking for and provides a welcoming environment for anyone who visits their home.





EDUCATIONAL CATEGORY

GOLD STAR WINNER

Location:
Jamestown, North Dakota

Owner:
University of Jamestown

Design Firm: JLG Architects

Engineering Firm:
MBN Engineering

Contractor: JE Dunn

Subcontractors:
Winn Construction
Scherbenske, Inc.

Concrete Supplier:
Aggregate Industries

Other Contributors: Terracon

CHARLOTTE AND GORDON HANSEN STADIUM

The Charlotte and Gordon Hansen Stadium in Jamestown recently received an \$11.5 million upgrade, funded by alumni, community members and local businesses.

The stadium, which has been known by several names since it was built in the 1930s by the Civil Works Administration, was showing signs of age. The existing track was non-regulation; site drainage was poor; the 85-year-old concrete grandstand was cracking and the press box on the west side of the stadium was in disrepair.

With the generous fundraising efforts, a new 2,700-seat grandstand with press box, coach boxes, suites, concessions and bathrooms were constructed along with a new 9-lane NCAA synthetic turf running track and a synthetic turf football field. The football field and track will now be utilized by the University of Jamestown and the Jamestown High School football, soccer and track teams.

Most of the foundation work was done during the winter of 2020-2021. The foundation wall, footings and piers utilized a 4000-psi mix with hot water, heated sand and heated rock. Longer set times during wintry weather is often an issue with contractors. A two-percent, non-chloride accelerator was used to shorten set times while increasing early compressive strength. Much of the paving of the stair areas, mezzanine and retaining wall was placed with a 4000-psi, 15 percent fly ash mix.

Concrete was utilized throughout this project, including supporting piers; continuously placed concrete stairs; supports for bleacher seating; and retaining walls along the north and south ends of the east grandstand. The retaining wall holds back fill that was required to expand the new track. Several piers were placed throughout the project to support new goal posts, light poles, scoreboards and more.

The stadium renovation provides a large benefit to the city of Jamestown. With its population of approximately 16,000, raising \$11.5 million in private donations and constructing a project of this magnitude is a tremendous feat. In addition, cooperation from the University of Jamestown and Jamestown School District No. 1 was vital to the project's success. This facility was open and ready for the 2021 football season and was put to significant use on Friday and Saturday nights.





GOVERNMENTAL CATEGORY

MOUSE RIVER ENHANCED FLOOD PROTECTION PROJECT – PHASE MI-1

One of the region's most devastating floods in recent memory was the historic 2011 Mouse River flood in Minot, ND. The flood dwarfed the 100-year flood as the river's flow was recorded at 27,400 cubic feet per second (cfs), which was more than five times the rate for which existing channels and levees had been designed. In the aftermath of the disaster—which destroyed homes, displaced residents, crippled business and caused more than \$690 million in damages—the Mouse River Enhanced Flood Protection Project (MREFPP) was initiated by the Souris River Joint Board (SRJB).

The MREFPP is a multi-phase, basin-wide project with both rural and urban components. Construction for Phase MI-1 concluded in Fall 2021. This phase starts in the heart of Minot and stretches more than a mile. The project included a concrete floodwall and other structural components. It also included approximately 3,000 feet of roadway; 45,000 cubic yards of dirt; a 190,000-gallons-per-minute (gpm) Broadway Pump Station; a 40,000-gpm sanitary lift station; and 18,000 feet of utility reconstruction. This \$43-million investment into flood protection and civil infrastructure improvements will help remove approximately 60 percent of Minot's residents from the floodplain.

This project had additional strict requirements to meet as set forth by FEMA and the US Army Corps of Engineers (USACE). The construction team worked diligently to ensure the floodwalls and accompanying

GOLD STAR WINNER

*Location:
Minot, ND*

*Owners:
Souris River Joint Board
City of Minot*

*Engineer:
Houston Engineering, Inc.*

*Contractors:
Park Construction (Prime)
Lunda Construction Co.*

*Concrete Suppliers:
Strata Corporation
Souris Valley Ready Mix*

pieces of infrastructure were built to the specifications to secure accreditation from FEMA. The project design is going beyond FEMA's requirements, surpassing the 100-year event. The reason for this is that the flood protection was designed to protect against the 2011 event, which itself was beyond the 100-year event.

Decision-makers chose to use a concrete floodwall design, which limited impact to the surrounding community. An earthen levee would have been less costly but had a much larger project footprint than the concrete floodwall. The floodwalls—built of concrete—last longer, maintain their appearance longer, have less chance of leakage, and can better withstand debris and ice from flooding.

One of the most impressive elements of the MREFPP is the new Broadway Pump Station. During major flood events, decisionmakers will be able to redirect the Mouse River through a diversion and seal off a natural portion of the river. The pump station will drain this major segment, which can then be used to store stormwater.

The project included more than 14,900 cubic yards (cy) of concrete — a long-lasting yet affordable material. This ensures that the flood protection will be present for years to come, protecting the community of Minot from future floods.



GOLD STAR WINNER

Location: Dickinson, ND

Owners: Scott & Kathy Olin

Architect: GT Architecture

Engineers:
CW Structural Engineers

Construction Management:
Pat Bren Consulting

Builder: Dahmus Builders

Concrete Contractors:
Winn Construction
Tolman Concrete (Decorative)

Concrete Supply:
Dickinson Ready Mix Co.

OLIN ICF HOUSE

When Scott and Kathy Olin decided to build a new home, and with Scott being in the ready-mixed concrete business for 41 years, they knew they wanted a concrete house that incorporated various concrete elements throughout its interior and exterior.

Because this home will eventually serve as the Olin's retirement home, they didn't want any steps, so it was built slab-on-grade resulting in a 2,819 sf, three-bedroom home with an attached three-car garage. All exterior and some of the interior walls are concrete construction, built using Logix Insulated Concrete Forms (ICFs). The city required a 4 ft frost-break wall below grade and the ICF walls extended 9 ft above grade, totaling 13 ft of 8" concrete wall from footing to eave. The interior walls surrounding the home's pool room were also 8" ICF concrete walls because of their moisture resistance and resistance to water damage in a high humidity environment and because of noise suppression qualities. In addition, the interior walls around the pool room bathroom and the mechanical room are also ICF concrete walls, without windows, to create an interior storm shelter.

This home was built with a conventional roof, but protection from severe weather was further enhanced using hurricane straps to fasten the roof to the concrete walls. The exterior of the house was designed to blend with

other homes in the area and features conventional siding, a stone wainscot and high impact asphalt shingles. No special detailing was required to install these features on an ICF house.

Advantages to a concrete house include energy efficiency, quietness, fire resistance, storm protection and indoor air quality.

Conventional 2x6 framed houses have an R-value of 19 while this ICF constructed home has an R-value of 25 because of the mass of the concrete coupled with continuous insulation on both the outside and inside of the walls. Home heating is provided by a hydronic in-floor heating system.

Homes built with ICF concrete walls very effectively buffer a home's interior from the outdoors. ICF walls suppress noise from outside the house as well as between rooms in the house resulting in an incredibly quiet





interior. In fact, ICF homes are typically 50 percent quieter than regular homes.

The ICF home has inherent fire-resistant properties. Concrete has a slow rate of heat transfer, which means concrete walls in an ICF house function as a fire shield. This results in a 4-hour fire resistance rating for this home.

With no basement to take shelter in during severe weather, storm resistance was a significant factor in choosing ICFs. The homeowners wanted to mitigate the threat of severe weather and tornadoes by building a home that would be capable of withstanding large wind loads and debris impacts. ICFs were the perfect choice for constructing a storm-resistant home. The Olin house's strong, 8" ICF concrete walls can withstand winds of more than 250 mph and the associated debris impacts. That represents protection from more than 99 percent of all tornados known to have occurred in the United States.

ICF construction allows far less air infiltration than a standard wood frame structure, keeping outside air out. Because the hydronic in-floor heating system does not circulate air, it reduces the dust, pollutants and allergens in the house. Also, because the house is so air-tight, the heating/cooling system incorporates an air exchanger to filter incoming air and help remove moisture from the house. The result is superior air quality inside the house.

Interior features include all the finishes one would expect in a conventional house. Most visitors will not realize they are in a concrete house; however, Kathy, being married to a concrete guy for 35 years, wanted to feature various concrete elements that maintained the look of regular concrete.

All counter tops in the house are concrete. The kitchen, the kitchen island, all three bathrooms, and the laundry



room feature concrete counter tops. The concrete counter tops are colored gray with charcoal accents and have square edges providing a clean, modern look. The concrete bathroom sinks are integrally cast into the counter-tops.

The homeowner's fireplace was constructed using a polymer cement troweled onto the frame, creating the look of a gray concrete fireplace.

To achieve an extraordinary first impression when visitors step into the front door, the concrete in the front entryway was left exposed. The top 3/16" was ground off the surface of the concrete and then it was polished, densified and sealed to provide a dramatic entrance to the Olin's new house.

Exterior concrete includes a decorative patio that runs the full length of the house. The patio features a decorative border and decorative landing created using a seamless rough stone pattern skin. Joints were then hand placed, spaced equidistantly, giving the appearance of paving stone. All other patio concrete is exposed aggregate, with a pea gravel mix design, to achieve a tighter aggregate spacing.

The 120 ft driveway, extending from the street to the garage, contains both rebar and integral macro-fibers to provide maximum protection against cracking resulting from expansive soils found in the area. All exterior flatwork utilized a strength enhancing admixture to reduce cement content without compromising concrete strength.

All totaled, 295 CY of ready mixed concrete were used in the construction of the Olin house. The homeowners are enjoying the advantages of their concrete home, or their "concrete fortress" as Kathy calls it.



PARKING LOT CATEGORY

GOLD STAR WINNER

Location:
Fargo, ND

Owner:
North Dakota State University

Engineer:
Houston Engineering, Inc.

Contractors:
All Finish Concrete - Paving
Wrigley Mechanical
- Precast Vault
Border States Paving – Milling

Concrete Supply:
Kost Materials, Inc.
Hancock Concrete Products

NDSU PARKING LOTS - SF, BC, AND W & STEAM VAULT REPLACEMENTS 2021

North Dakota State University in Fargo, ND had a need to expand and reconstruct three parking lots, which had outlived their design lives and have recently become busier than ever. Additionally, the existing configurations and underutilized green space could be reconfigured to add urgently needed new parking stalls. The SF lot, the largest one, is south of Bison Courts and west of Stockbridge Residence Hall. The SF lot serves both residence halls, while the BC lot is located directly west of Bison Courts and is also primarily used by residents. The W lot is situated west of the SF lot and south of the BC lot (the corner of the block) and sits northeast of the intersection of 14th Street North and 14th Avenue North.

Together, these three lots were reconfigured to replace 546 bituminous parking stalls with 580 concrete stalls. By removing green space and expanding the parking, the three separate lots now essentially operate as one large lot with a median island separation. Additionally, the concrete pedestrian walkways were all upgraded and relocated to provide safer, more efficient routes. All lighting systems were upgraded to LED, and all power cables were replaced. Colored concrete was used at medians. Crushed concrete was used for the aggregate base course.

There were elevation differences across the green spaces between the previous parking lots and be-

tween the parking lot edges and existing student housing. With several feet of variance, handicap accessibility was impossible without major design accommodations and meticulous attention to detail. The team paid close attention to grading in both design and construction to ensure ADA requirements were met despite the significant elevation differences. In addition, ADA requirements were met in all other design features, including sidewalks, pedestrian ramps and more.

The previous parking lots were bituminous. The project team removed the bituminous pavement from the project site entirely and used 6 inches of crushed concrete as the subsurface. Watering and timely rains helped the crushed concrete compact and densify, which resulted in the project site being nearly impermeable to subsequent rain events. The use of crushed concrete meant that the project team lost almost no time due to rain days. The actual parking lot surface consisted of 6 inches of non-reinforced concrete.

The paving project team of All Finish Concrete and Kost Materials was able to place approximately 3,650 cubic yards of concrete between the three parking lots in just six weeks. This ensured there was enough time to finish sidewalks, lighting, signage, striping, and other appurtenances before classes resumed at NDSU this past fall.



STREET PAVING & MULTI-USE PATH

CATEGORY

38TH STREET SOUTH, 63RD AVENUE SOUTH PAVING

The City of Fargo is continuously growing and so is its continuous need to provide safer and more efficient ways to move residents and goods around the city. It is anticipated most growth will occur in areas south of the current city limits and west of the Interstate 29 corridor.

Project BN-20-L1 fits within the anticipated growth area and will have both public and private development – consisting of commercial, retail, mixed use, single and multi-family residential. The project also contains 100 acres owned by the Fargo Park District to include open green space with traditional park amenities, outdoor sports fields and an indoor sports complex in partnership with Sanford Health.

This project serves as a gateway to South Fargo connecting 52nd Ave to 64th Ave. In addition, it connects the East and West sides of Fargo with the new overpass coming to 64th Ave. The visual appeal for this project was designed by the city to accommodate the new Sanford Sports Complex. Safety played a key role in the design of the two-lane roundabout which was intended to improve the safety for traffic and pedestrians using this gateway and overpass.

Dakota Underground professionalism and expertise showed in its craftsmanship and ability to meet or exceed all deadlines. This project was started in November of 2020 with the underground concrete and

GOLD STAR WINNER

*Location:
Fargo, ND*

*Owner:
City of Fargo*

*Engineer:
City of Fargo*

*Contractors:
Dakota Underground
Superior Contracting
Paras Contracting*

*Concrete Supply:
Strata Corporation*

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NORTH DAKOTA

SITE CAST/ TIILT UP CATEGORY



GOLD STAR WINNER

*Location:
Williston, ND*

*Owner:
City of Williston*

*Engineers:
DN Tanks
AE2S Engineering LLC*

*Contractor:
DN Tanks*

*Concrete Supply:
Strata Corporation*

WILLISTON WEST RESERVOIR

With the exponential growth Williston, ND has experienced in recent years, the city found itself in need of additional potable water storage for its ever-increasing population. Working with DN Tanks and AE2S Engineering LLC, the city selected a design/build, two-million-gallon concrete reservoir to ensure adequate water supply for its current and future residents.

Work on the project began in Spring 2021 and was complete by Fall 2021. All wall and roof elements were cast onsite and erected. After erection, the whole tank was coated with five layers of shotcrete.

In total, seven unique mix designs were utilized on Williston West Reservoir project. In addition, the use of super plasticizers and two types of microfibers helped aid in placement, while keeping a low water cement ratio and minimizing shrinkage. All mixes utilized 30 percent fly-ash replacement for long-term durability. Additional admixtures were used on the floor pours to extend joint spacing, which also aided in improving the construction schedule.

Concrete was the obvious choice for the city over other construction materials, due to its strength, flexibility in design, lower long-term maintenance costs and ease of construction. This tank, comprised of more than 880 cubic yards of concrete,

will serve the Williston community for decades to come.



2022 CAREER ACHIEVEMENT AWARD

Brad Beyer

The North Dakota Ready Mix and Concrete Products Association Career Achievement Award is presented to individuals who have made significant contributions to the concrete industry, their communities and the NDRM&CPA. The CAA is only awarded when the NDRM&CPA Board of Directors deems a person is worthy and deserving of recognition. In its 56-year history, the CAA has been awarded nine times.

Recipients of this award must have been an active producer or active member in good standing for at least ten years and must have made significant contributions of time and effort to the association. Additionally, recipients must be of strong integrity and responsibility. Finally, recipients must be retired and no longer working in the industry.



BUILD WITH
NORTH DAKOTA
STRENGTH

Brad Beyer began his career working for his father in the family business, Beyer's Cement, as a teenager. Sweeping the shop floor, changing tires, driving truck, and learning the business from the ground up. In 1978, Beyer's Cement expanded its operations to Grand Forks, and Brad relocated there to assist with the expansion and renovation, as well as managing this facility. Over the ensuing years, he assisted his father with the expansion of the business to Bismarck, Wahpeton, Williston, Minot and Fargo.

In the late 1980's, Lafarge purchased the family business and Brad became a regional sales representative as well as a terminal manager. Brad was responsible for developing Beyer Cement remote rail transfer program which enabled them to grow the business to areas that were difficult or impossible to service. While developing this business, Brad developed numerous business relationships with individuals in the rail industry. The knowledge gained through this endeavor proved invaluable, as Brad was the go-to guy for all things rail for much of Lafarge across the US and western Canada. In 2015, Lafarge merged with Holcim and Brad continued his career as a Market Manager until he retired in 2019, after working in the industry for 42-plus years.

Over his career, Brad was an active member of the NDRM&CPA, serving as the association's President in 2013. He served on the Board of Directors for the North Dakota Concrete Council and served as president from 2016-2018. Additionally, Brad was an active member with the Association of General Contractors of North Dakota and the Grand Forks Regional Airport Authority Board.

With the development of hydraulic fracturing and the rapid growth of the Bakken oil fields in western North Dakota, Brad worked with the North Dakota Oil and Gas Division and was instrumental with the introduction of soil stabilization to North Dakota.

Brad was not only a sales representative; he treated his customers like family and knew them all personally. He loved the industry, the job, and above all else, the people he serves.

As the 10th recipient of the CAA, Brad joins his father, Bob Beyer, on the list of recipients and the first father and son awarded this honor.

He and Cindy have been married 43 years and have three children - Matthew and wife Jade; Dr. Bethany Gourneau, and husband Michael; and Dr. Danielle Beyer-Langerud and husband Brenton. They also have six grandchildren- Cole, Maija, Norah, Elizabeth, Adeline and Christian.

2022 NDRM&CPA SCHOLARSHIP RECIPIENTS

Congratulations to the following students who earned scholarships from the NDRM&CPA Scholarship Program. These students have shown a commitment to educational excellence and the recognition of the importance of concrete in their professional future. Each scholarship recipient will receive \$2,000 to use toward their continued education.



Kaylee Beachler is a junior Civil Engineering Major at the University of North Dakota in Grand Forks. Beachler, a Steele, ND native, holds a 3.3 GPA and recently interned at the City of Grand Forks Engineering Department. Beachler is the director of fundraising for the UND Chapter of Engineers Without Borders; a member of the Mortar Board Honor Society, and the Society of Women Engineers (SWE). In her application she stated, "Part of my goal as a Civil Engineer is finding ways to make concrete an even more sustainable material, whether that be adding nonrecyclable plastics, changing the way Portland cement is manufactured to reduce carbon dioxide emissions or even carbon capture concrete. I know there are solutions out there, it is just a matter of finding them."



Trevor Guck is a fifth-year student at North Dakota State University, pursuing a graduate degree in Architecture. Guck, a Perham, MN native, holds a 4.00 GPA and is also pursing a minor in Business Administration. Guck has worked as a construction laborer pouring and finishing concrete. He said in his application, "My interest in the concrete industry originated while I was a concrete laborer during my first few years of college. I never really appreciated these aspects of my environment until I was the one forming, pouring and finishing it. I do believe it is a form of art from the way it is produced to the way it is poured."

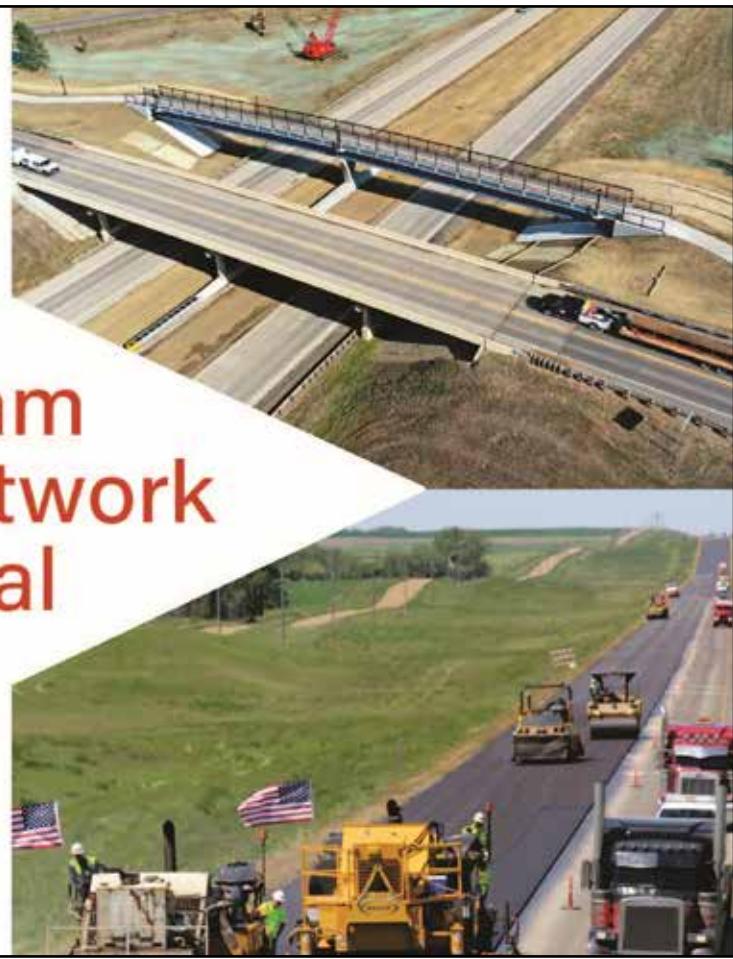


Benjamin Wilson, a Bismarck, ND native, is a senior Construction Management student at the University of Mary in Bismarck, ND. Wilson holds a 3.50 GPA and has spent his summers working in the concrete industry, placing residential and commercial footings and walls, driveways, sidewalks and basements. Wilson also has estimated a wide variety of concrete specific jobs, from concrete pads, sidewalks, driveways and foundations. Wilson enjoys the concrete industry because, "Concrete is one of the most widely used and environmentally friendly building materials made today. With all these tremendous properties, it's not hard to see why concrete is one of the world's most paramount building materials moving forward."

The NDRM&CPA Scholarship Program was established in 1993. Applicants must be junior, senior or graduate students in civil engineering, construction engineering, construction management, architecture, or landscape architecture. They are awarded points on work or internship experience; grade-point-average; campus or industry involvement; and a four-part ,written essay regarding the benefits of concrete. With the 2022 Scholarship Awards, the program has given out \$118,000 to 94 students.

We want to thank all students who applied for a scholarship and for the time and effort that went into their applications. Also, a special thanks to the scholarship committee and to our industry partners who diligently help with fundraising efforts to make this scholarship program a continued success.

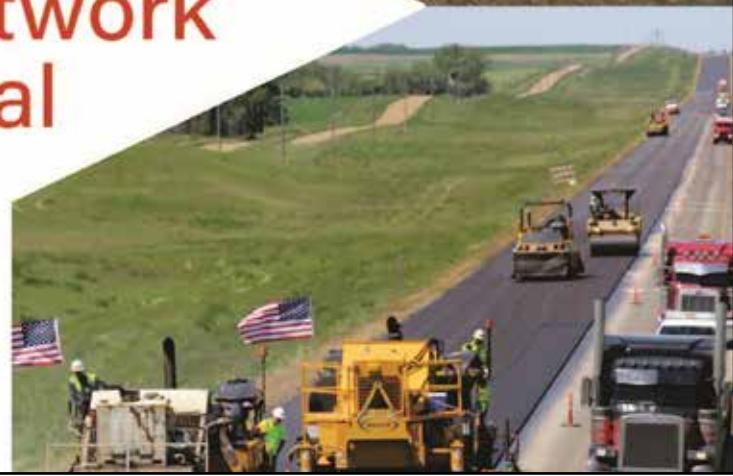
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SOUTH DAKOTA STATE UNIVERSITY

Department of Construction and Operations Management

Concrete Industry Management



Tim Hostettler, Program Director
SDSU Concrete Industry Management Program
Solberg Hall 115B Box 2223
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- Hands-on learning opportunities with state-of-the-art technology.
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- Competitive pay: Graduates have ranked in the top three highest paid majors over the past three years.

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| ▪ Safety Manager | ▪ Virtual Design & Construction Manager |
| ▪ Operations Manager | ▪ Logistics Specialist |
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2022 ACI CERTIFICATION PROGRAMS CLASS SCHEDULE AND REGISTRATION

2022 ACI Concrete Field-Testing Technician Grade I Certification

- February 22-23, Fargo Holiday Inn
- March 8-9, Bismarck Ramada Inn
- March 15-16, Dickinson Grand Dakota Lodge

*Note: Additional classes for Fargo and Bismarck will be added in May.
Dates and Locations TBD. Minimum class size is 20 participants.*

SCAN QR CODE TO REGISTER!



**COST: Association Members & Government Agencies (GA) — \$450.00 per participant
Non-Members — \$525.00 per participant**

2022 American Concrete Institute Flatwork Associate, Finisher, and Advanced Finisher Certification Course

- April 12-13, Fargo Holiday Inn

*Note: An additional class in Fargo will be scheduled for May based on demand.
Minimum class size is 10 participants.*

**COST: \$445.00 per participant for full examination and certification
(\$50.00 discount for 5 or more or NDRM&CPA members)**
\$295.00 class and reference materials only

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Note: refunds will only be granted if cancellation notice is received at least five business days prior to the class date.



NORTH DAKOTA
CONCRETE COUNCIL

The North Dakota Concrete Council (NDCC) consists of the North Dakota Ready-Mix & Concrete Products Association, North Dakota Chapter, Inc. of the American Concrete Pavement Association, and the member cement companies serving North Dakota.

The NDCC provides fiduciary responsibility and oversight for the employment of personnel to advocate for the advancement of the concrete industry. The advocacy is achieved by means of research, education and promotion of concrete and its technologies within the North Dakota regional market area.

OUR MISSION

To promote the effective use of concrete.

Working together, our goal is to provide the necessary resources for all stakeholders to have a successful experience with concrete.



Ready Mix & Concrete
Products Assoc.



NORTH DAKOTA CONCRETE COUNCIL
P.O. BOX 1076 • BISMARCK, ND 58504

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EXECUTIVE DIRECTOR

ART THOMPSON

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AVAILABLE RESOURCES AND PROGRAMS

EDUCATIONAL TRAININGS PROMOTIONAL MATERIALS TECHNICAL SUPPORT PROJECT RECOGNITION

GOVERNMENT RELATIONS CERTIFICATION PROGRAMS NETWORKING EVENTS AWARD PROGRAM

PAVEMENT DESIGNER is updated software that uses current industry recognized methods for design of concrete pavements. It also puts all these methods all under one roof, allowing your design team to choose from parking lots, pavements, overlays and intermodal facilities within the same program. Use of this free web-based software by your engineering team provides the owner, architect and/or developer the assurance that your pavement designs utilize the most current codes, industry recognized design and construction methodologies, and are economized for your traffic type and loads. For more information, please visit: www.pavementdesigner.org



PAVE AHEAD is an educational website designed to assist the industry, policymakers and other stakeholders when making decisions about how to pave with safety, reliability, sustainability and cost in mind. Paveahead.com provides a portal to a no-fee "pavement design center." The design center employs an "assistance team" to help users develop project pavement designs, select materials, locate contractors and consult with industry specialists. For more information, please visit: www.paveahead.com



Backed by the National Ready Mixed Concrete Association, **BUILD WITH STRENGTH** is a coalition of architects, builders, engineers, emergency services personnel and policymakers. Its mission is to educate the building and design communities and policymakers on the benefits of ready mixed concrete, and encourage its use as the building material of choice for low- to mid-rise structures. For more information, please visit: www.buildwithstrength.com



The **MIT CONCRETE SUSTAINABILITY HUB**, CSHub, is a dedicated interdisciplinary team of researchers from several departments across MIT working on concrete and infrastructure science, engineering, and economics since 2009. The MIT CSHub brings together leaders from academia, industry, and government to develop breakthroughs using a holistic approach that will achieve durable and sustainable homes, buildings, and infrastructure. CSHub approaches this by conducting research to reduce the impact of producing and using concrete, and to develop tools to support infrastructure decisions: life-cycle environmental, cost, and hazard resistance. For more information, please visit: <http://cshub.mit.edu>



The **NATIONAL CONCRETE PAVEMENT TECHNOLOGY CENTER**, CP Tech Center, is a national hub for concrete pavement research and technology transfer housed at Iowa State University. The CP Tech Center was founded in 2000 and has been instrumental in developing and helping to advance the nation's strategic plan for concrete pavement research, the CP Road Map. To view the past and present research being conducted at the CP Tech Center, please visit: <https://cptechcenter.org/>



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**NORTH DAKOTA READY MIX &
CONCRETE PRODUCTS ASSOC**

P.O. BOX 1076 • BISMARCK, ND 58502

MEMBERSHIP

The North Dakota Ready Mix and Concrete Products Association, along with the North Dakota Chapter of the American Concrete Pavement Association, value the support from our members. If you or your firm are interested in becoming members, we offer a variety of membership levels.

Our membership benefits include:

- Educational Trainings
- Promotional Materials
- Technical Support
- Government Relations
- Certification Programs
- Networking Events
- Project Recognition
- Awards Programs

For membership consideration, please contact Art Thompson, Executive Director, or Savannah Schmidt, Executive Assistant. You can also download and complete the Membership Application at
<https://www.ndconcrete.com/membership.html>.